

*** Current Data Parameters ***

NAME : ORP9RM-A
 EXPNO : 10
 PROCNO : 1

*** Acquisition Parameters ***

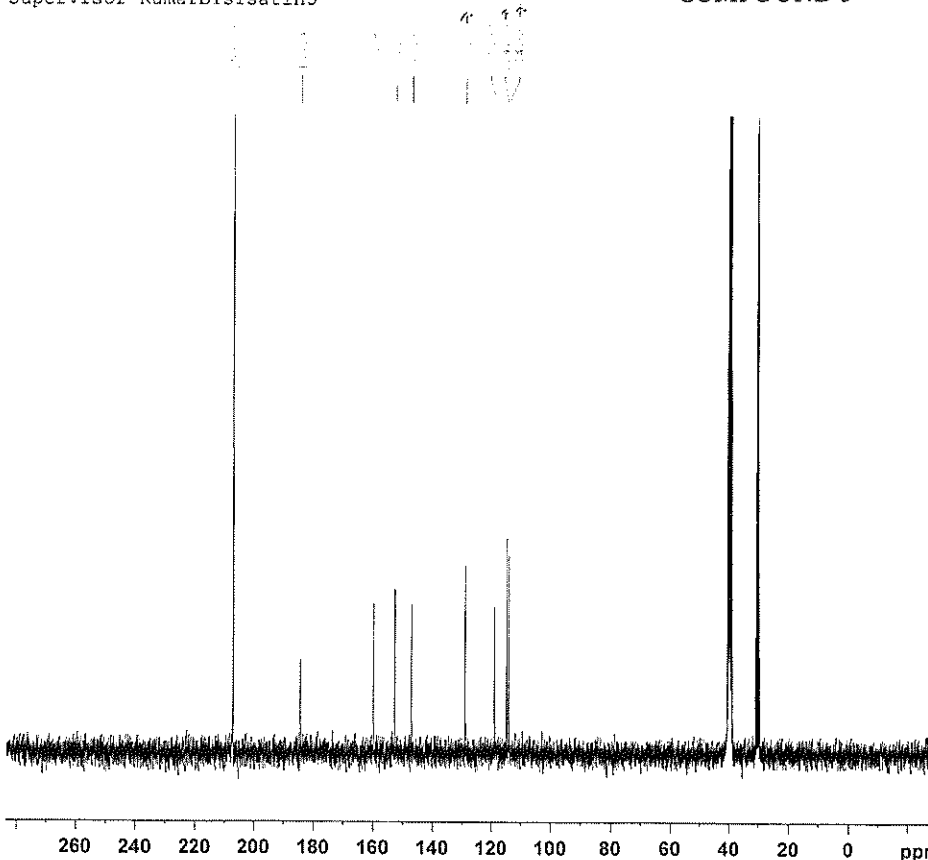
DATE_t : 21.50.38
 DATE_d : Aug 24 2009
 DS : 2
 LOCNUC : 2H
 NS : 16
 O1 : 1853.67 Hz
 O2 : 1853.67 Hz
 RG : 114.000000
 SFO1 : 300.1718537 MHz
 SOLVENT : DMSO
 SW : 20.5644 ppm
 TD : 32768
 TE : 300.2 K

*** Processing Parameters ***

LB : 0.30 Hz
 PC : 1.00
 SF : 300.1700000 MHz
 SI : 16384

*** 1D NMR Plot Parameters ***

SR : -0.00 Hz
 SOLVENT : ?



Current Data Parameters

NAME : 101208-zrn
 EXPNO : 21
 PROCNO : 1

F2 - Acquisition Parameters

Date_ : 20101209
 Time : 6.07
 INSTRUM : dpx1
 PROBHD : 5 mm QNP 1H/13
 PULPROG : zgpg30
 TD : 65536
 SOLVENT : DMSO
 NS : 1024
 DS : 2
 SWH : 23009.523 Hz
 FIDRES : 0.363304 Hz
 AQ : 1.3763061 sec
 RG : 16384
 DQ : 21.000 usec
 DE : 25.00 usec
 TE : 293.6 K
 D1 : 2.0000000 sec
 d11 : 0.0300000 sec
 DELTA : 1.89999998 sec
 TDO : 1

===== CHANNEL f1 =====

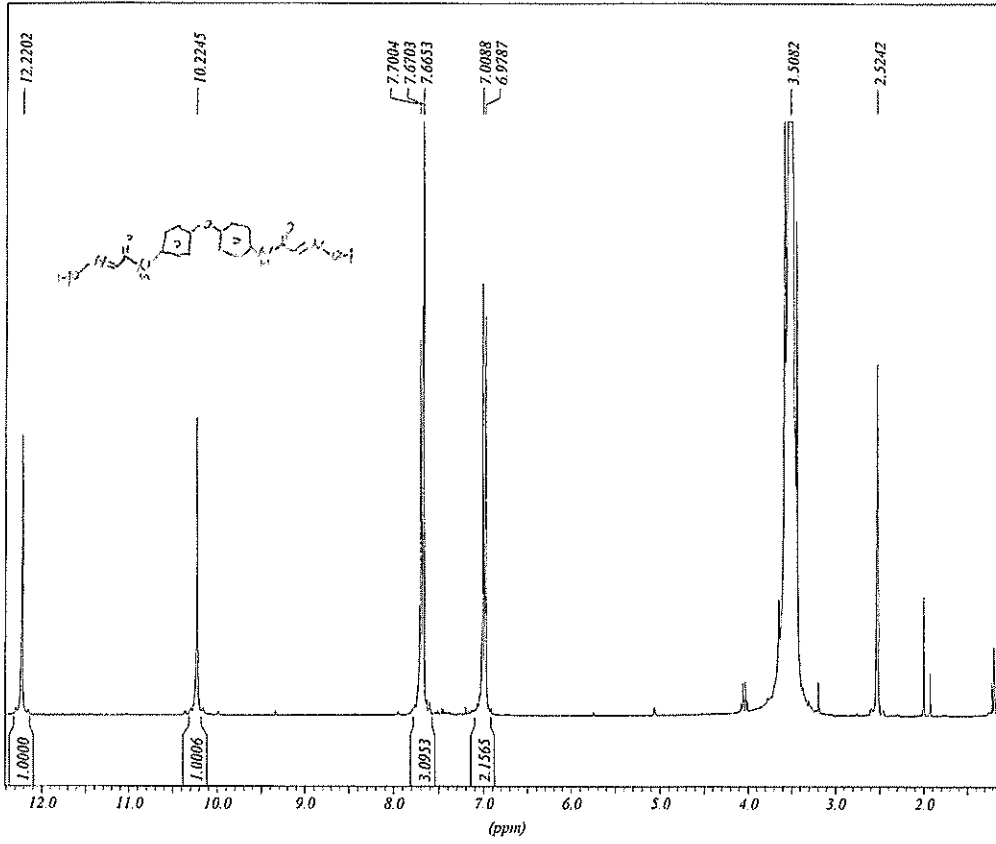
NUC1 : 13C
 P1 : 7.50 usec
 PL1 : -3.00 dB
 SFO1 : 75.4873094 MHz

===== CHANNEL f2 =====

CPDPRG2 : waltz16
 NUC2 : 1H
 PCPD2 : 105.00 usec
 PL2 : -3.00 dB
 PL12 : 17.34 dB
 PL13 : 23.60 dB
 SFO2 : 300.1715008 MHz

F2 - Processing parameters

SI : 32768
 SF : 75.4778155 MHz
 WDW : EM
 SSB : 0
 LB : 1.00 Hz
 GB : 0
 PC : 1.40



*** Current Data Parameters ***

NAME : ORP9RAI-A
 EXPNO : 10
 PROCNO : 1

*** Acquisition Parameters ***

DATE_j : 21-50-38
 DATE_d : Aug 24 2009
 DS : 2
 LOCNUC : 2H
 NS : 16
 O1 : 1853.67 Hz
 O2 : 1853.67 Hz
 RG : 114.000000
 SFO1 : 300.1718537 MHz
 SOLVENT : DMSO
 SW : 20.5644 ppm
 TD : 32768
 TE : 300.2 K

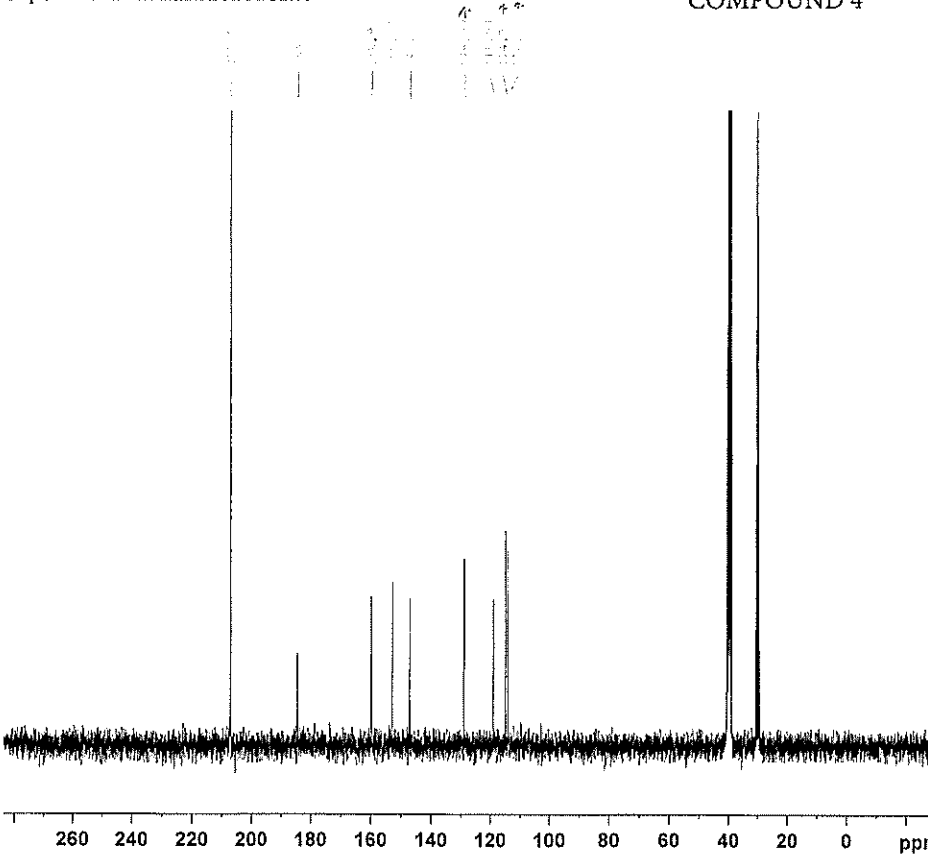
*** Processing Parameters ***

LB : 0.30 Hz
 PC : 1.00
 SF : 300.1700000 MHz
 SI : 16384

*** 1D NMR Plot Parameters ***

SR : -0.00 Hz
 SOLVENT : ?

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Current Data Parameters
 NAME : 101208-zrn
 EXPNO : 21
 PROCNO : 1

F2 - Acquisition Parameters

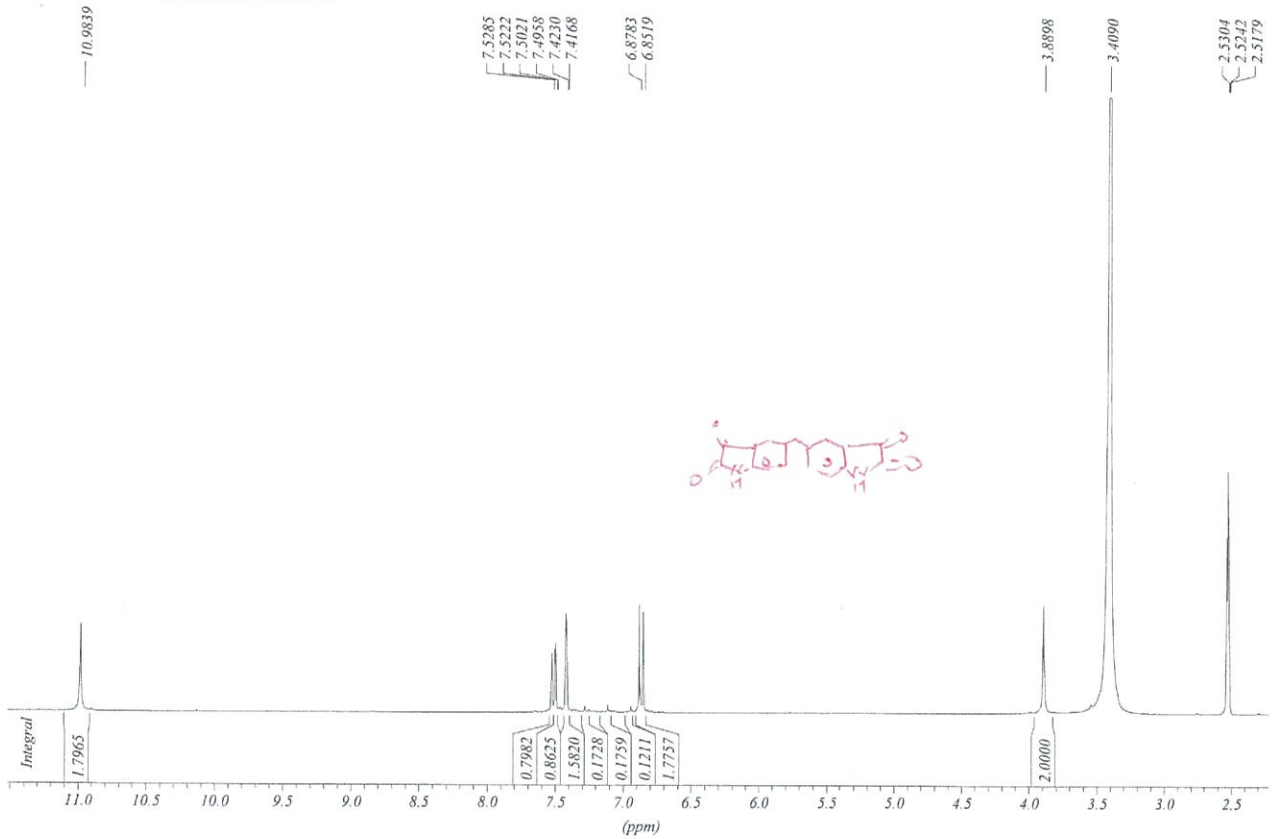
Date : 20101209
 Time : 6.07
 INSTRUM : dpx1
 PROBHD : 5 mm QNP 1H/13
 PULPROG : zgpg30
 TD : 65536
 SOLVENT : DMSO
 NS : 1024
 DS : 2
 SWH : 23009.523 Hz
 FIDRES : 0.363304 Hz
 AQ : 1.3763061 sec
 RG : 16384
 CW : 21.000 usec
 DE : 25.00 usec
 TE : 293.6 K
 D1 : 2.0000000 sec
 d11 : 0.0300000 sec
 DELTA : 1.89999998 sec
 TDO : 1

===== CHANNEL f1 =====
 NUC1 : 13C
 P1 : 7.50 usec
 PL1 : -3.00 dB
 SFO1 : 75.4873094 MHz

===== CHANNEL f2 =====
 CPDPRG2 : waltz16
 NUC2 : 1H
 ECPD2 : 105.00 usec
 PL2 : -3.00 dB
 PL12 : 17.34 dB
 PL13 : 23.60 dB
 SFO2 : 300.1715009 MHz

F2 - Processing parameters
 SI : 32768
 SF : 75.4778155 MHz
 WDW : EM
 SSB : 0
 LB : 1.00 Hz
 GB : 0
 PC : 1.40

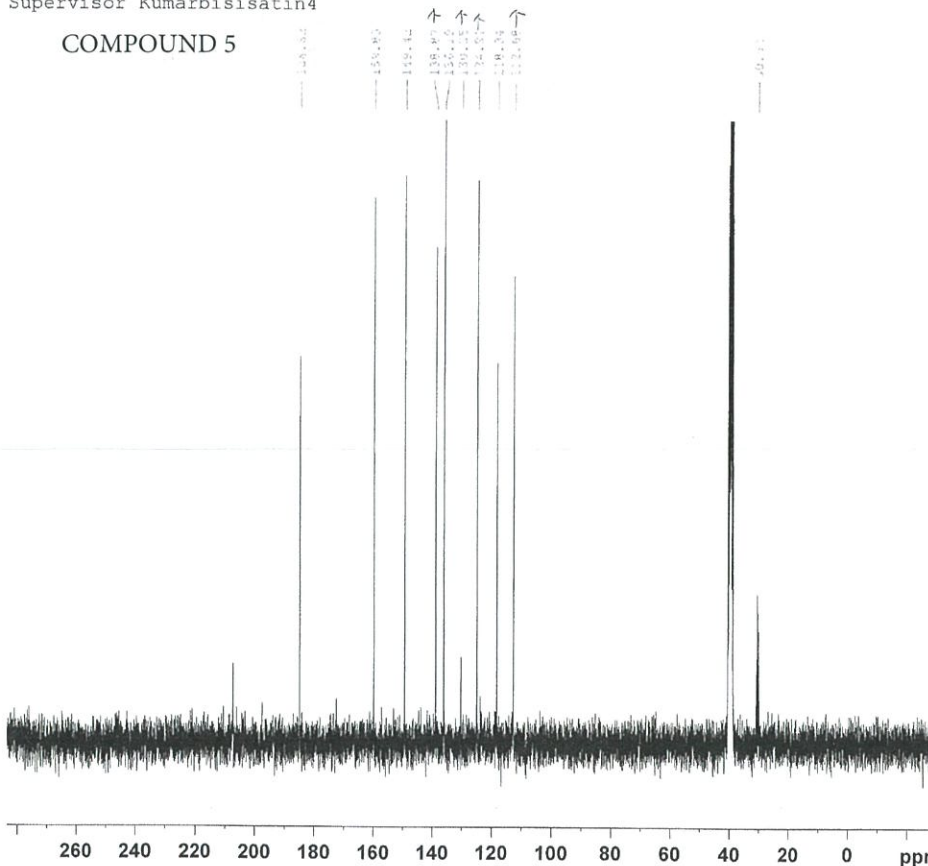
COMPOUND 5



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Supervisor Kumarbisisatin4

COMPOUND 5



Current Data Parameters
 NAME 101208-zrn
 EXPNO 11
 PROCNO 1

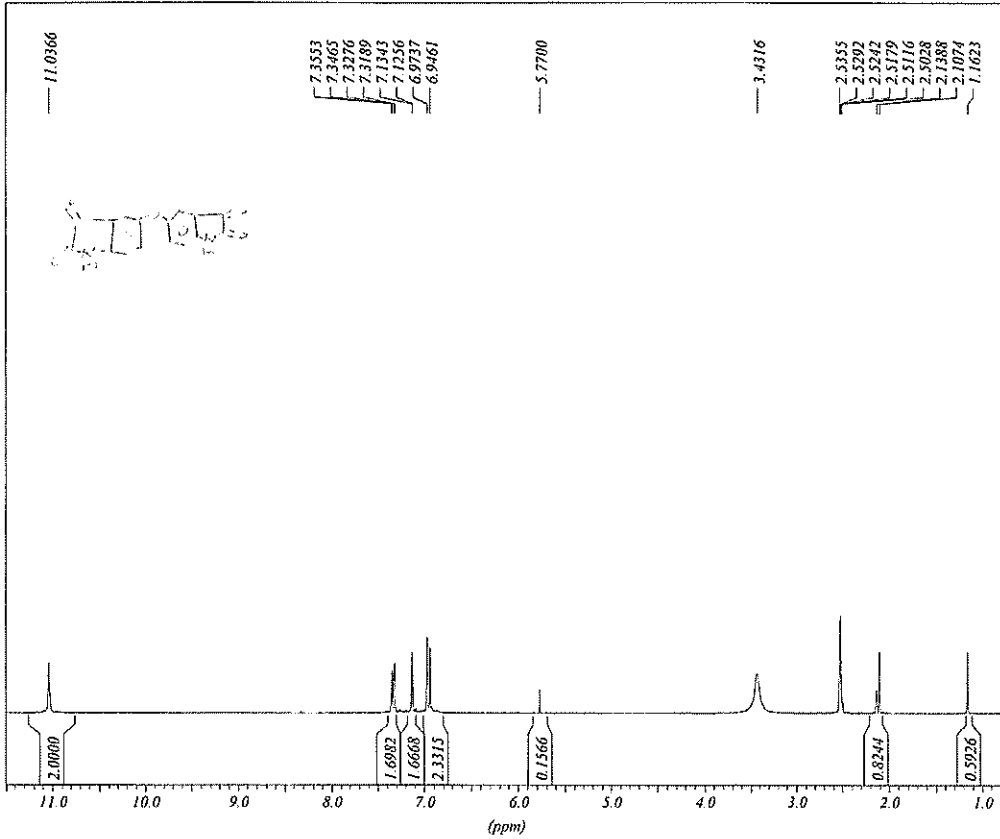
F2 - Acquisition Parameters
 Date_ 20101209
 Time 4.46
 INSTRUM dpx1
 PROBHD 5 mm QNP 1H/13
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 1024
 DS 2
 SWH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 14596.5
 DW 21.000 usec
 DE 25.00 usec
 TE 293.6 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TDO 1

==== CHANNEL f1 =====
 NUC1 13C
 P1 7.50 usec
 PL1 -3.00 dB
 SFO1 75.4873094 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 105.00 usec
 PL2 -3.00 dB
 PL12 17.34 dB
 PL13 23.60 dB
 SFO2 300.1715008 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4778155 MHz
 WDR EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

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*** Current Data Parameters ***

NAME : 09PYBK-L
 EXPNO : 60
 PROCNO : 1

*** Acquisition Parameters ***

DATE_1 : 08:25:11
 DATE_d : Sep 01 2009
 DS : 2
 LOCNUC : 2H
 NS : 16
 O1 : 1853.67 Hz
 O2 : 1853.67 Hz
 RG : 645.0999756
 SFO1 : 300.1718537 MHz
 SOLVENT : DMSO
 SW : 20.5644 ppm
 TD : 32768
 TE : 300.2 K

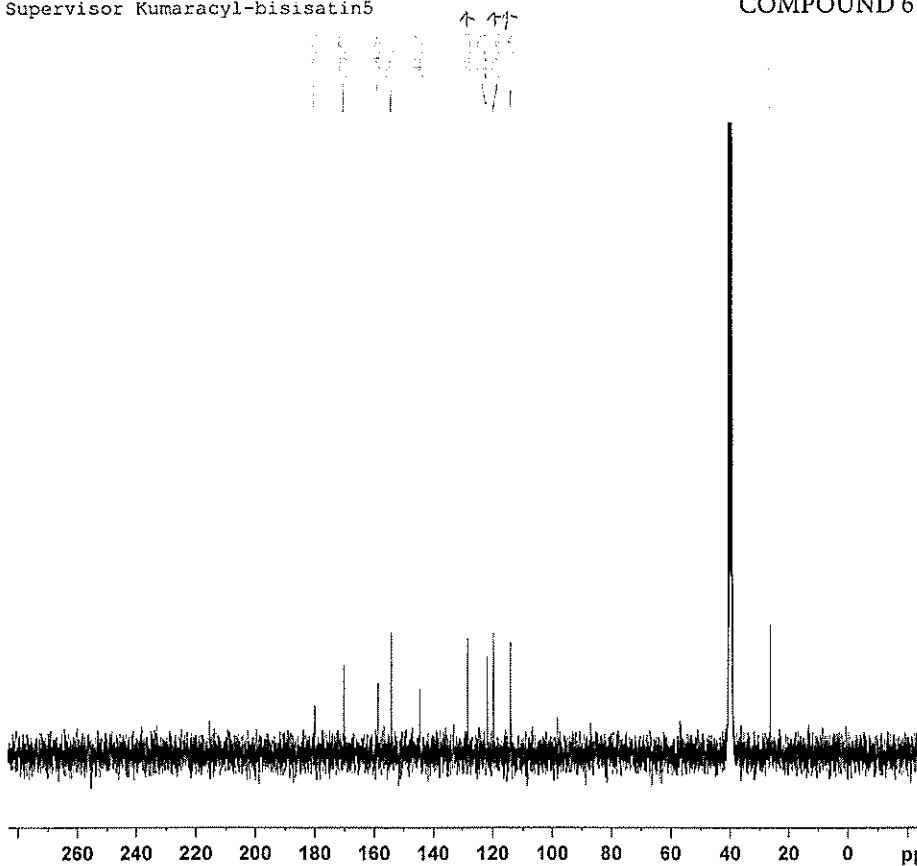
*** Processing Parameters ***

LB : 0.30 Hz
 PC : 1.00
 SF : 300.1700000 MHz
 SI : 16384

*** 1D NMR Plot Parameters ***

SR : -0.00 Hz
 SOLVENT : ?

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Current Data Parameters
 NAME 101208-zrn
 EXPNO 31
 PROCNO 1

F2 - Acquisition Parameters

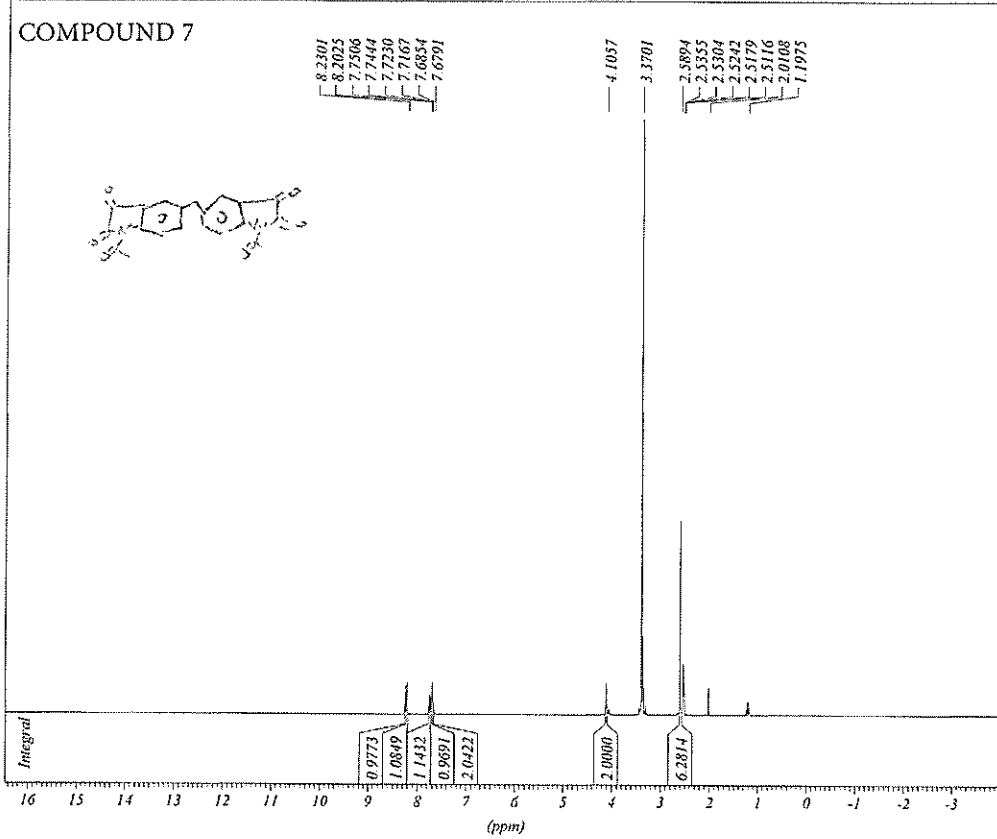
Date_ 20101209
 Time 7.29
 INSTRUM dpx1
 PROBHD 5 mm QNP 1H/13
 PULPROG zgpg30
 TD 65536
 SOLVENT DMSO
 NS 1024
 DS 2
 SRH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 16384
 DW 21.000 usec
 DE 25.00 usec
 TE 293.6 K
 D1 2.0000000 sec
 d11 0.0300000 sec
 DELTA 1.89999998 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 7.50 usec
 PL1 -3.00 dB
 SFO1 75.4873094 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 105.00 usec
 PL2 -3.00 dB
 PL12 17.34 dB
 PL13 23.60 dB
 SFO2 300.1715008 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4778155 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

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*** Current Data Parameters ***

NAME : 090612-1
 EXPNO : 20
 PROCNO : 1

*** Acquisition Parameters ***

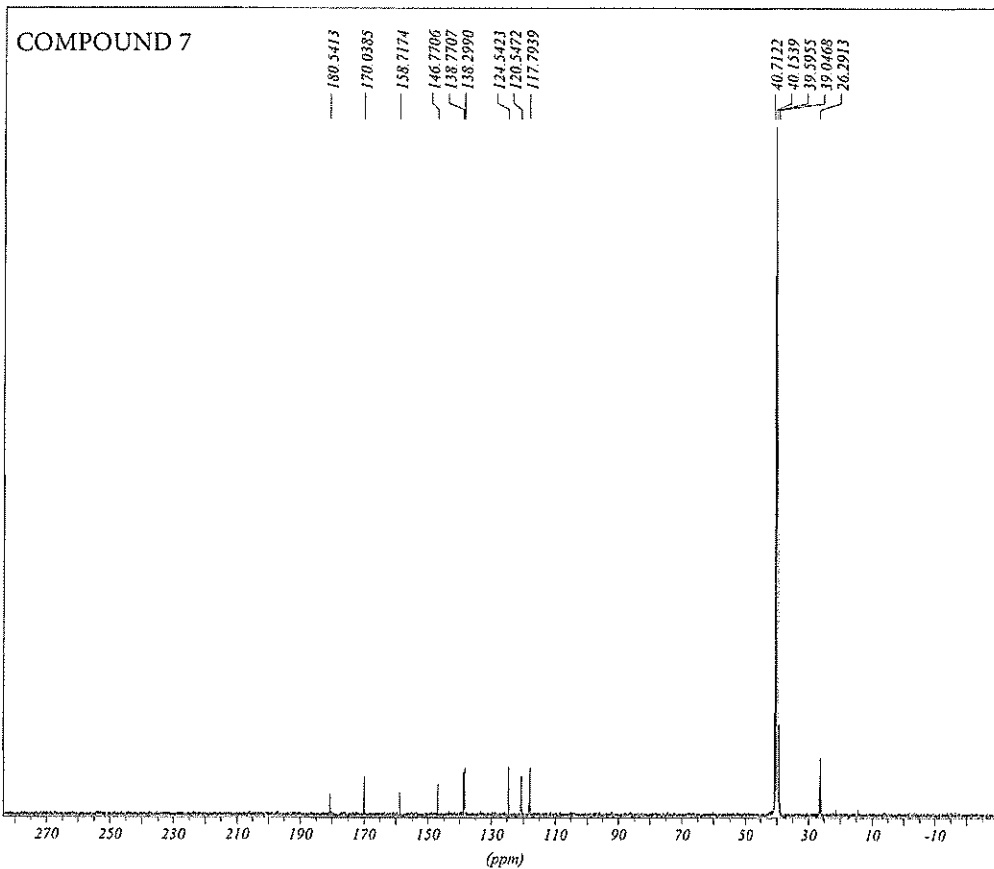
DATE_1 : 01.26.58
 DATE_d : Jun 12 2009
 DS : 2
 LOCNUC : 2H
 NS : 16
 O1 : 1853.67 Hz
 O2 : 1853.67 Hz
 RG : 406.3999939
 SFO1 : 300.1718537 MHz
 SOLVENT : DMSO
 SW : 20.5644 ppm
 TD : 32768
 TE : 298.2 K

*** Processing Parameters ***

LB : 0.30 Hz
 PC : 1.00
 SF : 300.1700000 MHz
 SI : 16384

*** 1D NMR Plot Parameters ***

SR : -0.00 Hz
 SOLVENT : ?



*** Current Data Parameters ***

NAME : 090612-1
 EXPNO : 21
 PROCNO : 1

*** Acquisition Parameters ***

DATE_1 : 03.25.11
 DATE_d : Jun 12 2009
 DS : 2
 LOCNUC : 2H
 NS : 2048
 O1 : 9532.38 Hz
 O2 : 1500.85 Hz
 RG : 16384.0000000
 SFO1 : 75.4873094 MHz
 SOLVENT : DMSO
 SW : 315.4189 ppm
 TD : 65536
 TE : 298.2 K

*** Processing Parameters ***

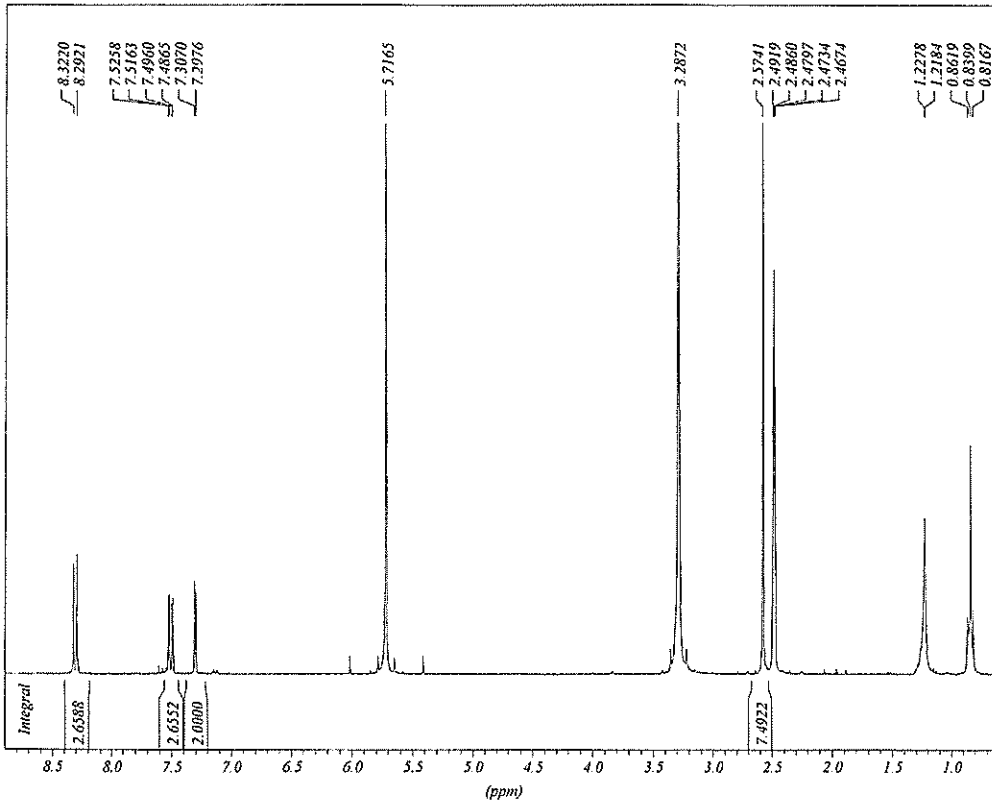
LB : 1.00 Hz
 PC : 1.40
 SF : 75.4778147 MHz
 SI : 32768

*** 1D NMR Plot Parameters ***

SR : 37.74 Hz
 SOLVENT : ?

Supervisor Kumar
acyl-bisatin5
1H DMSO F:\srn 12

COMPOUND 8



*** Current Data Parameters ***
NAME : 0AQVQ7-L
EXPNO : 4
PROCNO : 1

*** Acquisition Parameters ***
DATE_t : 13.30.26
DATE_d : Sep 05 2009
DS : 4
LOCNUC : 2H
NS : 16
O1 : 1853.67 Hz
O2 : 0.00 Hz
RG : 362.0000000
SFO1 : 300.1318537 MHz
SOLVENT : DMSO
SH : 20.5671 ppm
TD : 32768
TE : 298.0 K

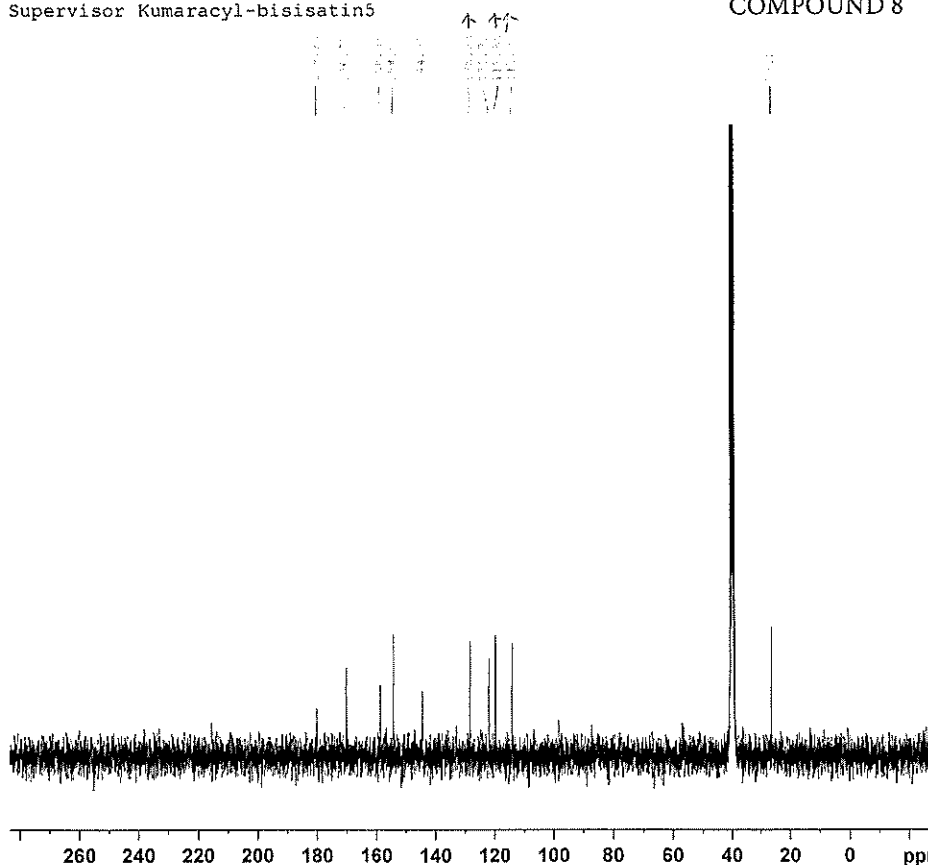
*** Processing Parameters ***
LB : 0.30 Hz
PC : 1.00
SF : 300.1300071 MHz
SI : 65536

*** 1D NMR Plot Parameters ***
SR : 7.14 Hz
SOLVENT : ?

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Supervisor Kumaracyl-bisatin5

COMPOUND 8



Current Data Parameters
NAME : 101208-zrn
EXPNO : 31
PROCNO : 1

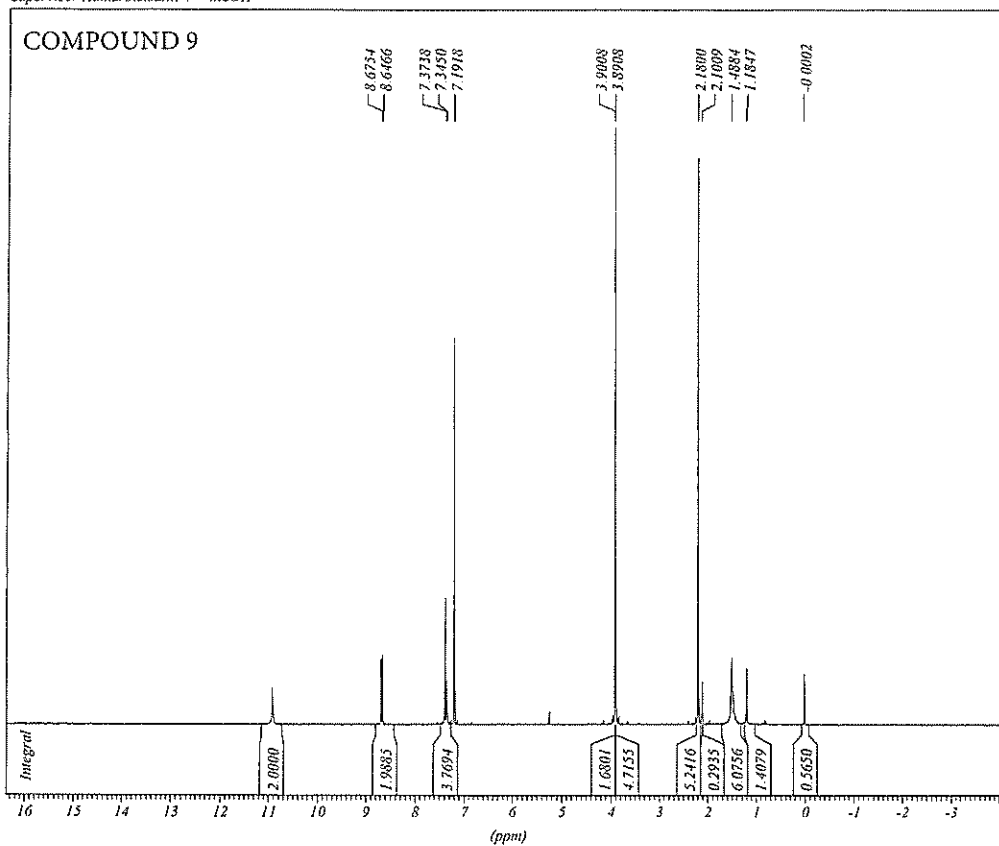
F2 - Acquisition Parameters
Date : 20101209
Time : 7.29
INSTRUM : dpx1
PROBHD : 5 mm QNP 1H/13
PULPROG : zgpg30
TD : 65536
SOLVENT : DMSO
NS : 1024
DS : 2
SWH : 23809.525 Hz
FIDRES : 0.363304 Hz
AQ : 1.3763061 sec
RG : 16384
DW : 21.000 usec
DE : 25.00 usec
TE : 293.6 K
D1 : 2.00000000 sec
d11 : 0.03000000 sec
DELTA : 1.09999999 sec
TDO : 1

===== CHANNEL f1 =====
NUC1 : 13C
P1 : 7.50 usec
PL1 : -3.00 dB
SFO1 : 75.4873094 MHz

===== CHANNEL f2 =====
CPDPRG2 : waltz16
NUC2 : 1H
PCPD2 : 105.00 usec
PL2 : -3.00 dB
PL12 : 17.34 dB
PL13 : 23.60 dB
SFO2 : 300.1715008 MHz

F2 - Processing parameters
SI : 32768
SF : 75.4770155 MHz
WDW : EM
SSB : 0
LB : 1.00 Hz
GB : 0
FC : 1.40

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*** Current Data Parameters ***

NAME 02UNV8-11
EXPNO 20
PROCNO 1

*** Acquisition Parameters ***

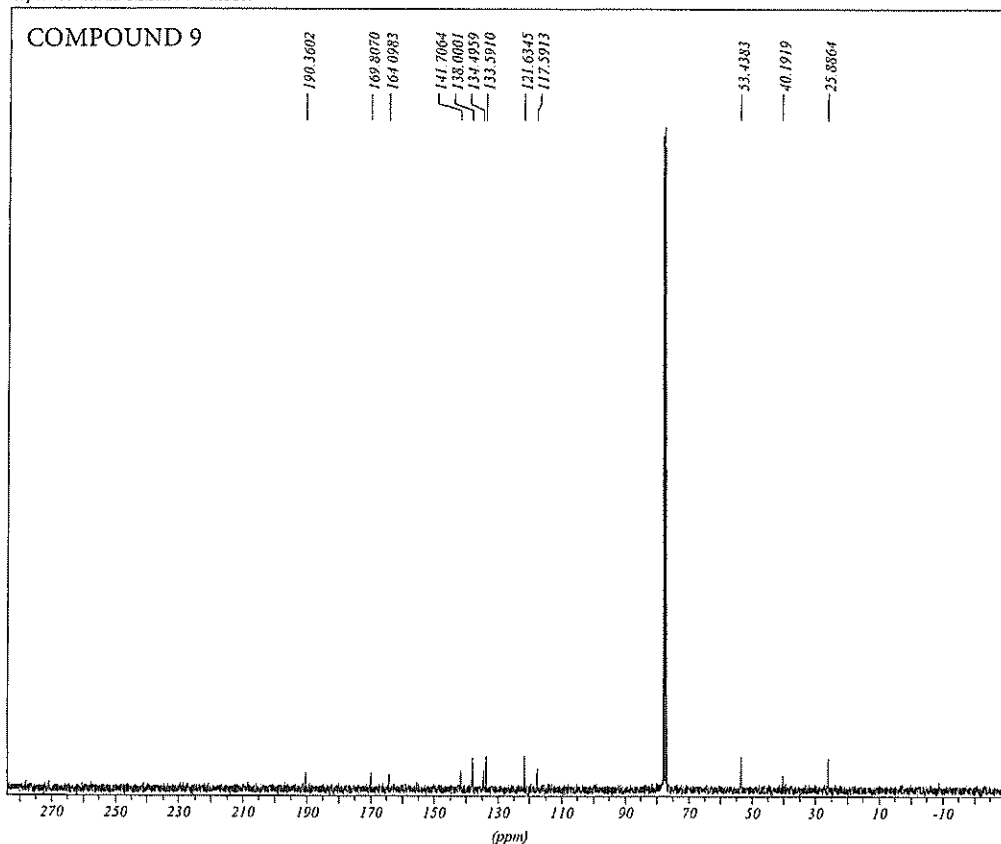
DATE_1 07.13.25
DATE_d Jul 21 2009
DS 2
LOCNUC 2H
NS 16
O1 1853.67 Hz
O2 1853.67 Hz
RG 1149.4000244
SFO1 300.1718537 MHz
SOLVENT CDCl3
SW 20.5644 ppm
TD 32768
TE 300.2 K

*** Processing Parameters ***

LB 0.30 Hz
PC 1.00
SF 300.1700257 MHz
SI 16384

*** 1D NMR Plot Parameters ***

SR 25.69 Hz
SOLVENT ?



*** Current Data Parameters ***

NAME 02UNV8-11
EXPNO 21
PROCNO 1

*** Acquisition Parameters ***

DATE_1 09.11.41
DATE_d Jul 21 2009
DS 2
LOCNUC 2H
NS 2048
O1 9532.38 Hz
O2 1500.85 Hz
RG 16384.0000000
SFO1 75.4873094 MHz
SOLVENT CDCl3
SW 315.4109 ppm
TD 65536
TE 300.2 K

*** Processing Parameters ***

LB 1.00 Hz
PC 1.40
SF 75.4777770 MHz
SI 32768

*** 1D NMR Plot Parameters ***

SR -0.00 Hz
SOLVENT ?

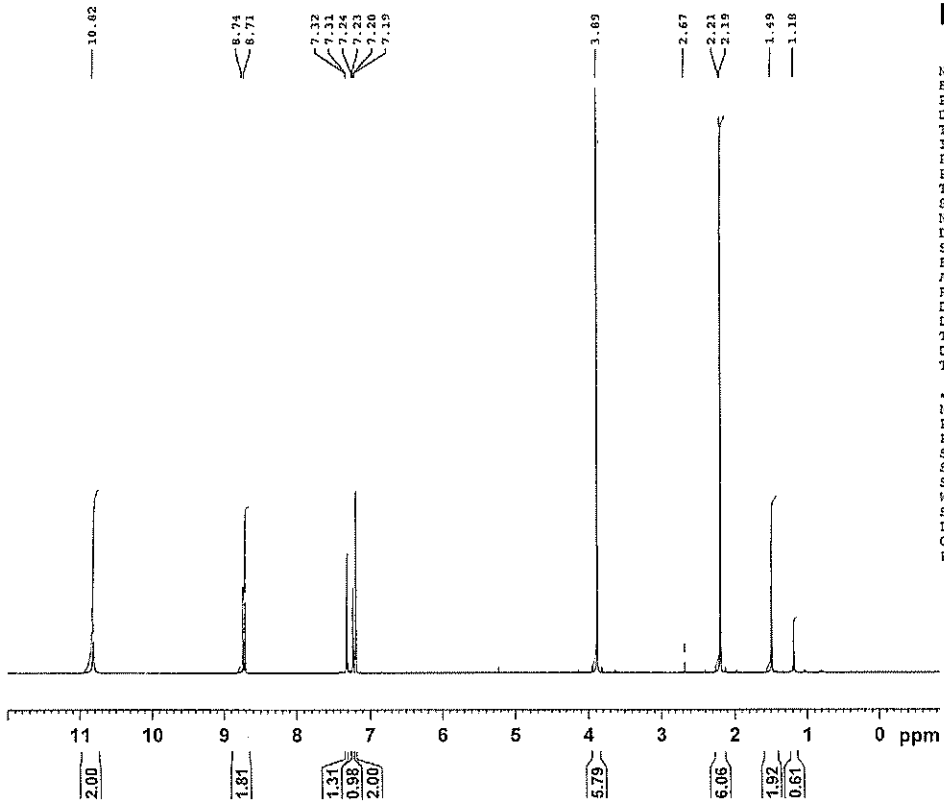
Supervisor KumarMeOH+bisisatin5

COMPOUND 11



NAME 090911-zrn
 EXPNO 20
 PROCNO 1
 Date_ 20091109
 Time 16.08
 INSTRUM dpx1
 PROBHD 5 mm QNP 1H/13
 PULPROG zg
 TD 32768
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.188380 Hz
 AQ 2.6542580 sec
 RG 645.1
 DN 81.000 usec
 DE 12.00 usec
 TE 298.2 K
 D1 1.5000000 sec
 TDO 1

----- CHANNEL f1 -----
 NUC1 1H
 P1 10.10 usec
 PL1 -3.00 dB
 SFO1 300.1718537 MHz
 SI 65536
 SF 300.1700318 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



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Supervisor KumarMeOH+bisisatin5

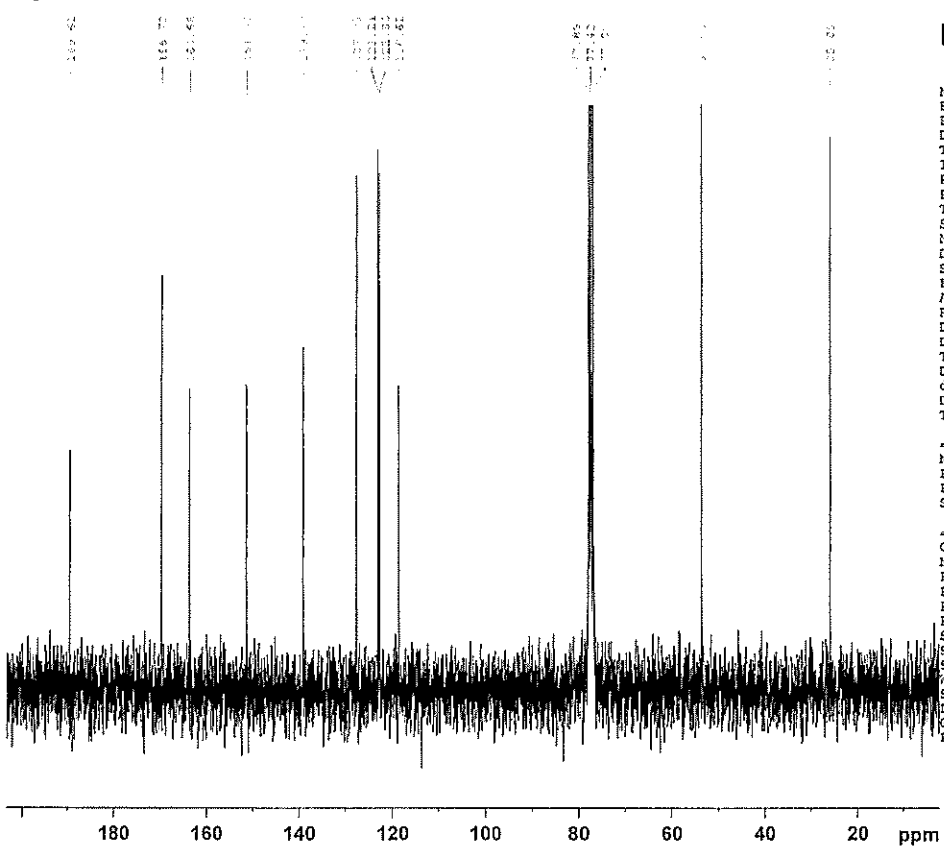
COMPOUND 11



NAME 090911-zrn
 EXPNO 21
 PROCNO 1
 Date_ 20091109
 Time 18.06
 INSTRUM dpx1
 PROBHD 5 mm QNP 1H/13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 2048
 DS 2
 SWH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 16384
 DH 21.000 usec
 DE 25.00 usec
 TE 298.2 K
 D1 2.0000000 sec
 d11 0.0300000 sec
 DELTA 1.89999998 sec
 TDO 1

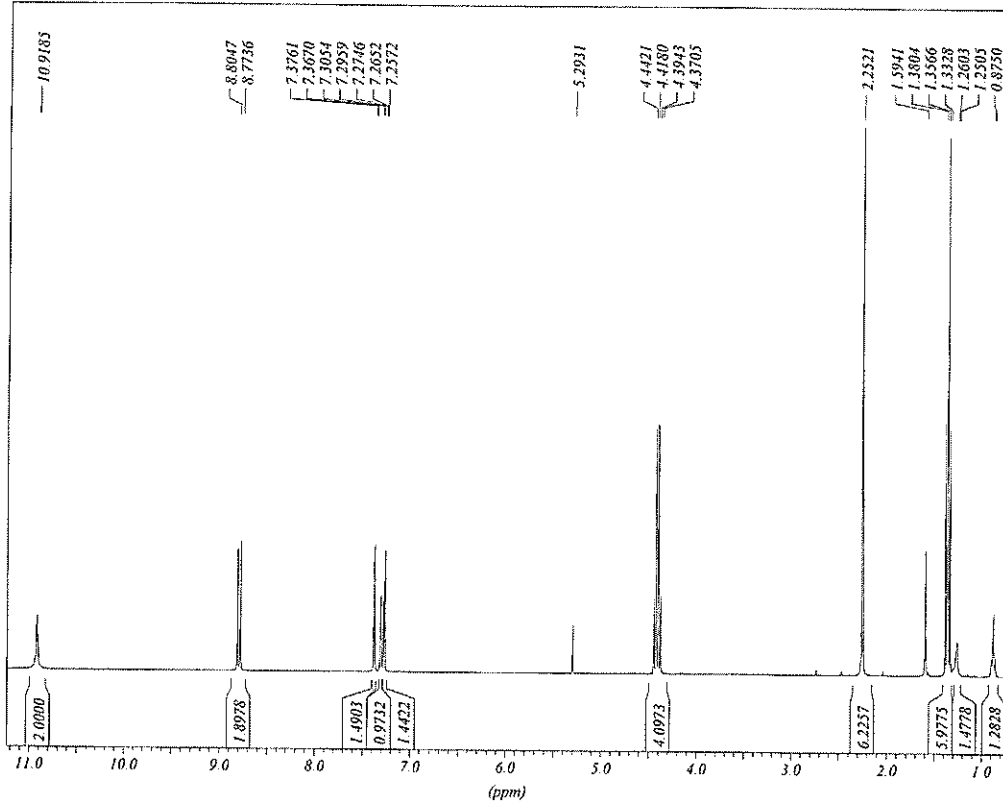
----- CHANNEL f1 -----
 NUC1 13C
 P1 7.50 usec
 PL1 -3.00 dB
 SFO1 75.4873094 MHz

----- CHANNEL f2 -----
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 105.00 usec
 PL2 -3.00 dB
 PL12 17.34 dB
 PL13 23.60 dB
 SFO2 300.1715008 MHz
 SI 32768
 SF 75.4777770 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Supervisor Kumar
EtOH+bisatin 5
1H CDC13 F: Wzn 20

COMPOUND 12



*** Current Data Parameters ***

NAME : 0YF2PZ-5
EXPNO : 5
PROCNO : 1

*** Acquisition Parameters ***

DATE_1 : 00:06:26
DATE_d : Nov 06 2009
DS : 0
LOCNUC : 2H
NS : 16
O1 : 2100.91 Hz
O2 : 0.00 Hz
RG : 287.3999939
SFO1 : 300.1321009 MHz
SOLVENT : CDCl3
SW : 19.9752 ppm
TD : 32768
TE : 298.0 K

*** Processing Parameters ***

LB : 0.30 Hz
PC : 1.00
SF : 300.1300071 MHz
SI : 65536

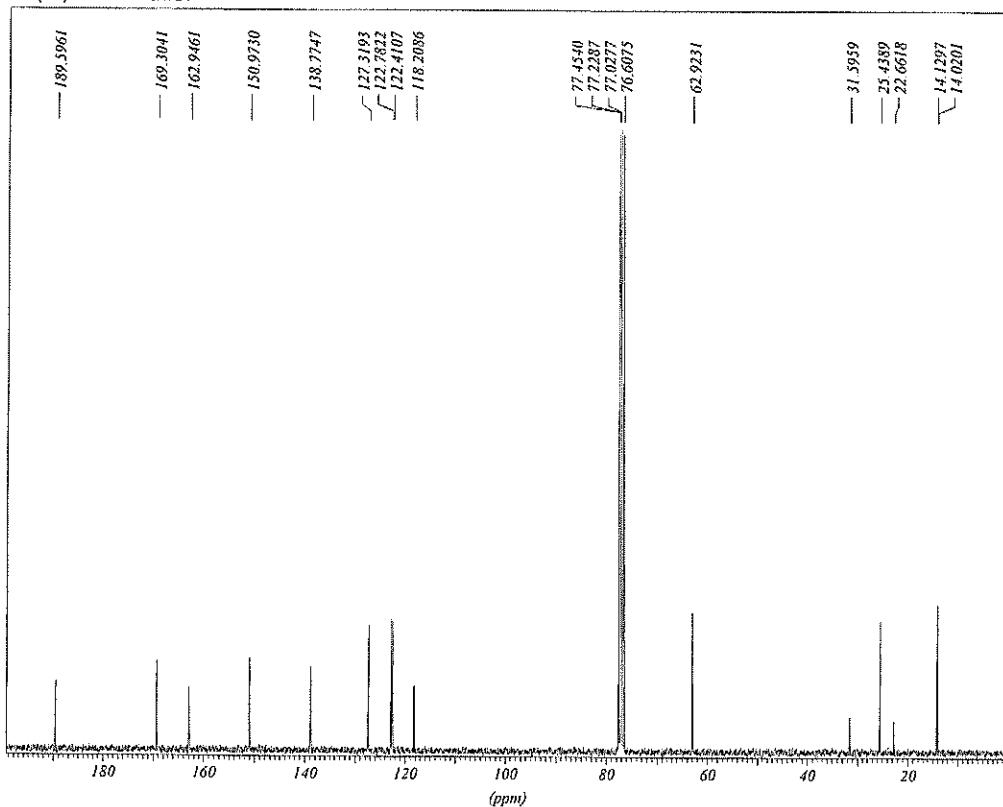
*** 1D NMR Plot Parameters ***

SR : 7.14 Hz
SOLVENT : ?

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Supervisor Kumar
EtOH+bisatin 5
13C{1H} CDC13 F: Wzn 20

COMPOUND 12



*** Current Data Parameters ***

NAME : 0YF2PZ-5
EXPNO : 6
PROCNO : 1

*** Acquisition Parameters ***

DATE_1 : 01:55:33
DATE_d : Nov 06 2009
DS : 0
LOCNUC : 2H
NS : 2048
O1 : 7546.77 Hz
O2 : 1500.85 Hz
RG : 18390.4003906
SFO1 : 75.4752658 MHz
SOLVENT : CDCl3
SW : 199.5388 ppm
TD : 32768
TE : 297.9 K

*** Processing Parameters ***

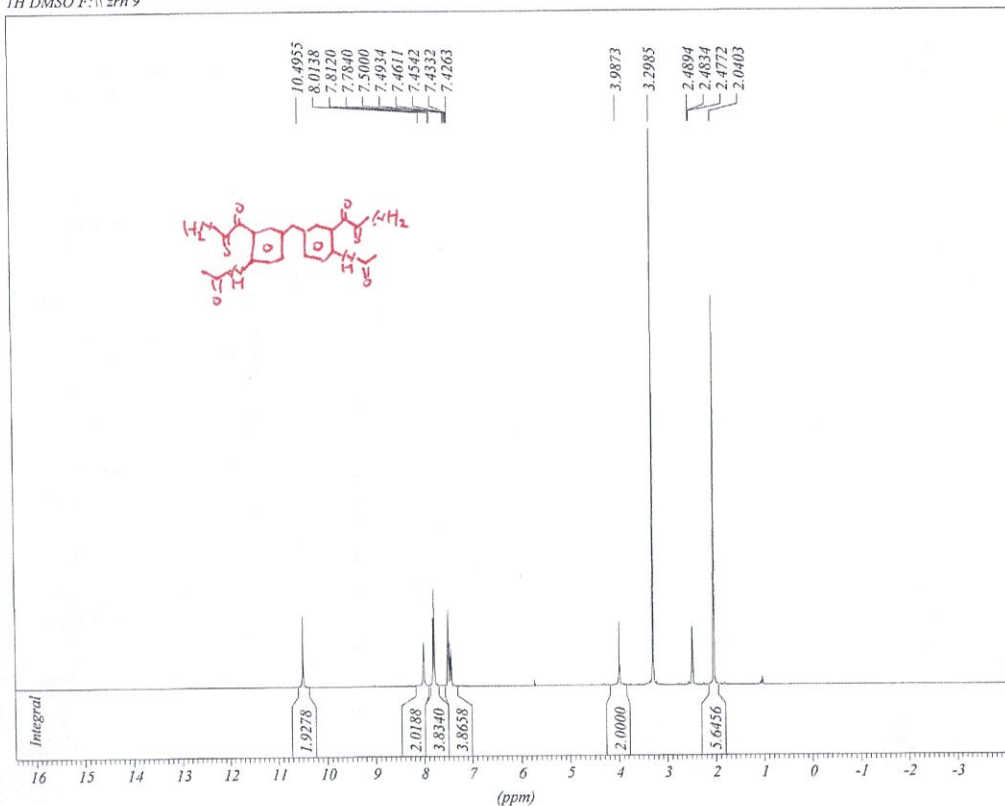
LB : 1.00 Hz
PC : 1.40
SF : 75.4677485 MHz
SI : 32768

*** 1D NMR Plot Parameters ***

SR : 29.46 Hz
SOLVENT : ?

Supervisor Kumar
NH3+bisisatin4
1H DMSO F:\zrn 9

COMPOUND 13



*** Current Data Parameters ***

NAME : 0G8AGH-1
EXPNO : 4
PROCNO : 1

*** Acquisition Parameters ***

DATE_1 : 12:44:46
DATE_d : Aug 31 2009
DS : 4
LOCNUC : 2H
NS : 16
O1 : 1853.67 Hz
O2 : 0.00 Hz
RG : 362.0000000
SFO1 : 300.1318537 MHz
SOLVENT : DMSO
SW : 20.5671 ppm
TD : 32768
TE : 298.0 K

*** Processing Parameters ***

LB : 0.30 Hz
PC : 1.00
SF : 300.1300071 MHz
SI : 65536

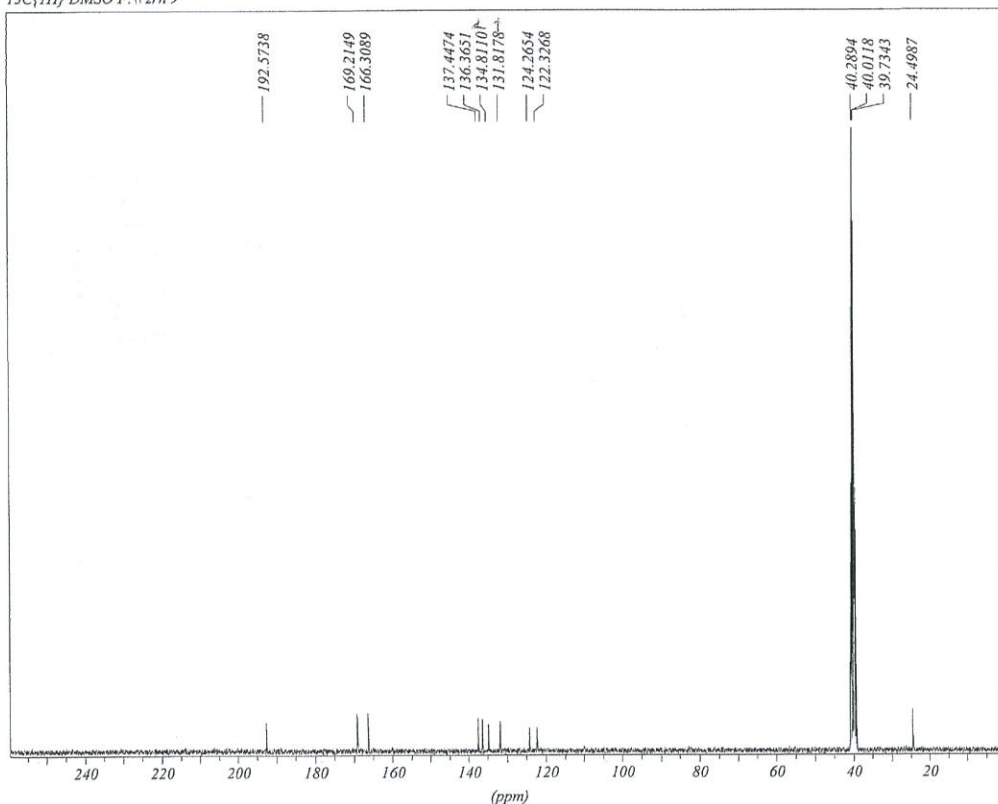
*** 1D NMR Plot Parameters ***

SR : 7.14 Hz
SOLVENT : ?

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Supervisor Kumar
NH3+bisisatin4
13C{1H} DMSO F:\zrn 9

COMPOUND 13



*** Current Data Parameters ***

NAME : 0G8AGH-1
EXPNO : 5
PROCNO : 1

*** Acquisition Parameters ***

DATE_1 : 13:50:17
DATE_d : Aug 31 2009
DS : 0
LOCNUC : 2H
NS : 1024
O1 : 9810.80 Hz
O2 : 1500.85 Hz
RG : 16384.0000000
SFO1 : 75.4775298 MHz
SOLVENT : DMSO
SW : 259.7838 ppm
TD : 65536
TE : 298.0 K

*** Processing Parameters ***

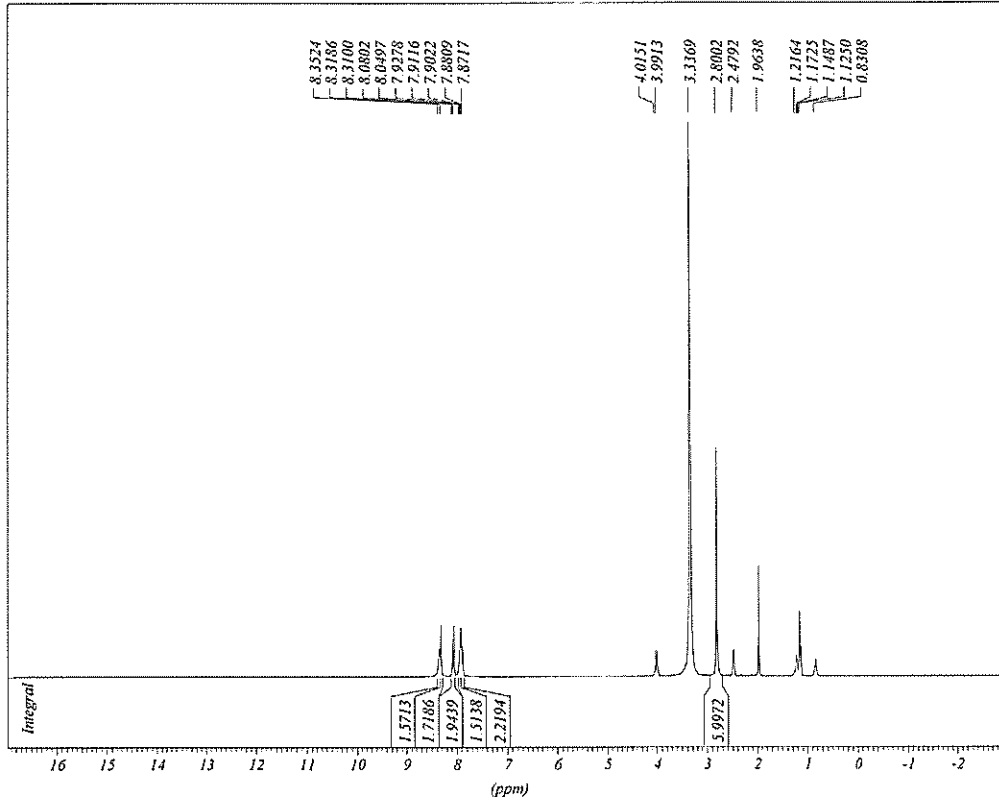
LB : 1.00 Hz
PC : 1.40
SF : 75.4677485 MHz
SI : 65536

*** 1D NMR Plot Parameters ***

SR : 29.46 Hz
SOLVENT : ?

Supervisor Kumar
NH3-bisatin 5
1H DMSO F:\zrn 19

COMPOUND 14



*** Current Data Parameters ***

NAME : 0YF2PZ-5
EXPNO : 2
PROCNO : 1

*** Acquisition Parameters ***

DATE_t : 21:10:37
DATE_d : Nov 05 2009
DS : 0
LOCNUC : 2H
NS : 16
O1 : 2100.91 Hz
O2 : 0.00 Hz
RG : 143.6999969
SFO1 : 300.1321009 MHz
SOLVENT : DMSO
SW : 19.9752 ppm
TD : 32768
TE : 298.3 K

*** Processing Parameters ***

LB : 0.30 Hz
PC : 1.00
SF : 300.1300071 MHz
SI : 65536

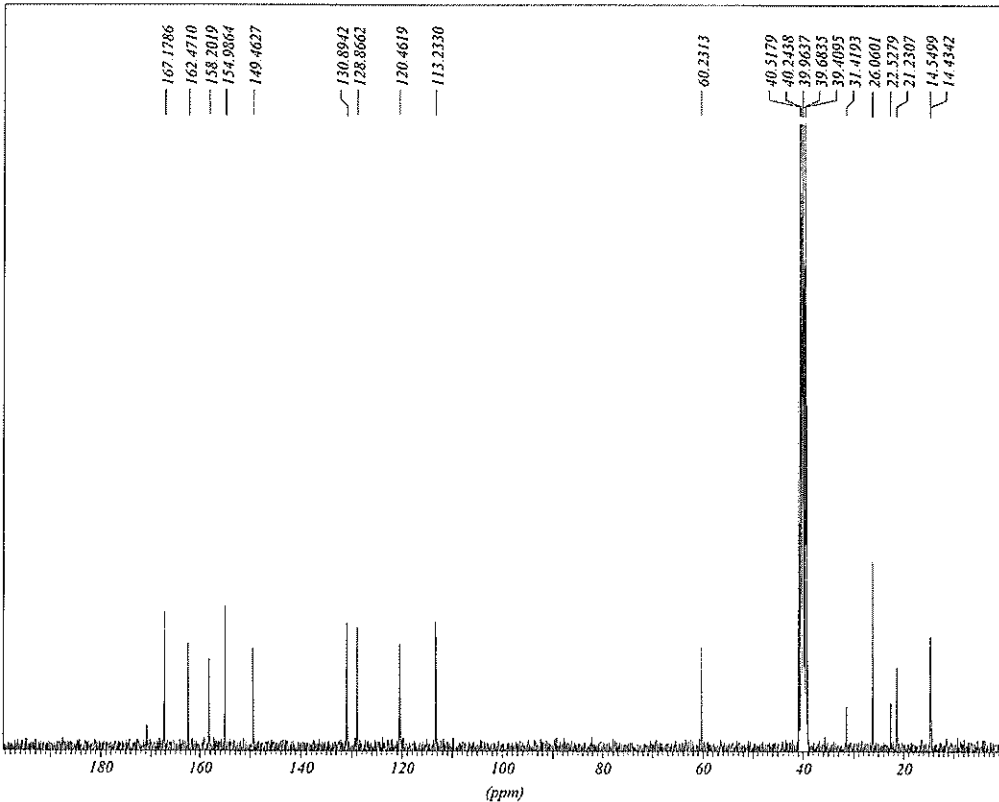
*** 1D NMR Plot Parameters ***

SR : 7.14 Hz
SOLVENT : ?

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Supervisor Kumar
NH3-bisatin 5
13C(1H) DMSO F:\zrn 19

COMPOUND 14



*** Current Data Parameters ***

NAME : 0YF2PZ-5
EXPNO : 3
PROCNO : 1

*** Acquisition Parameters ***

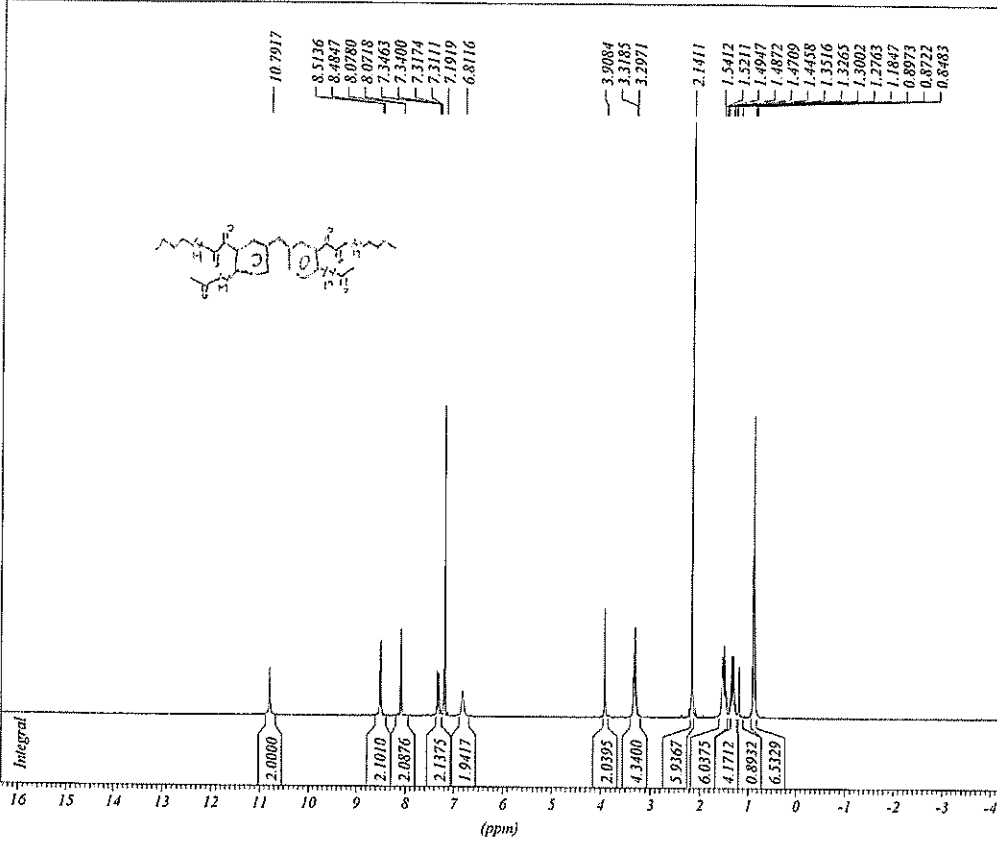
DATE_t : 23:00:24
DATE_d : Nov 05 2009
DS : 0
LOCNUC : 2H
NS : 2048
O1 : 7546.77 Hz
O2 : 1500.85 Hz
RG : 16384.0000000
SFO1 : 75.4752638 MHz
SOLVENT : DMSO
SW : 199.5388 ppm
TD : 32768
TE : 297.6 K

*** Processing Parameters ***

LB : 1.00 Hz
PC : 1.40
SF : 75.4677485 MHz
SI : 32768

*** 1D NMR Plot Parameters ***

SR : 29.46 Hz
SOLVENT : ?



*** Current Data Parameters ***

NAME : 097KLS-8
 EXPNO : 20
 PROCNO : 1

*** Acquisition Parameters ***

DATE_t : 10:41:04
 DATE_d : Aug 27 2009
 DS : 2
 LOCNUC : 2H
 NS : 16
 O1 : 1853.67 Hz
 O2 : 1853.67 Hz
 RG : 574.7000122
 SFO1 : 300.1718537 MHz
 SOLVENT : CDCl3
 SW : 20.5644 ppm
 TD : 32768
 TE : 300.2 K

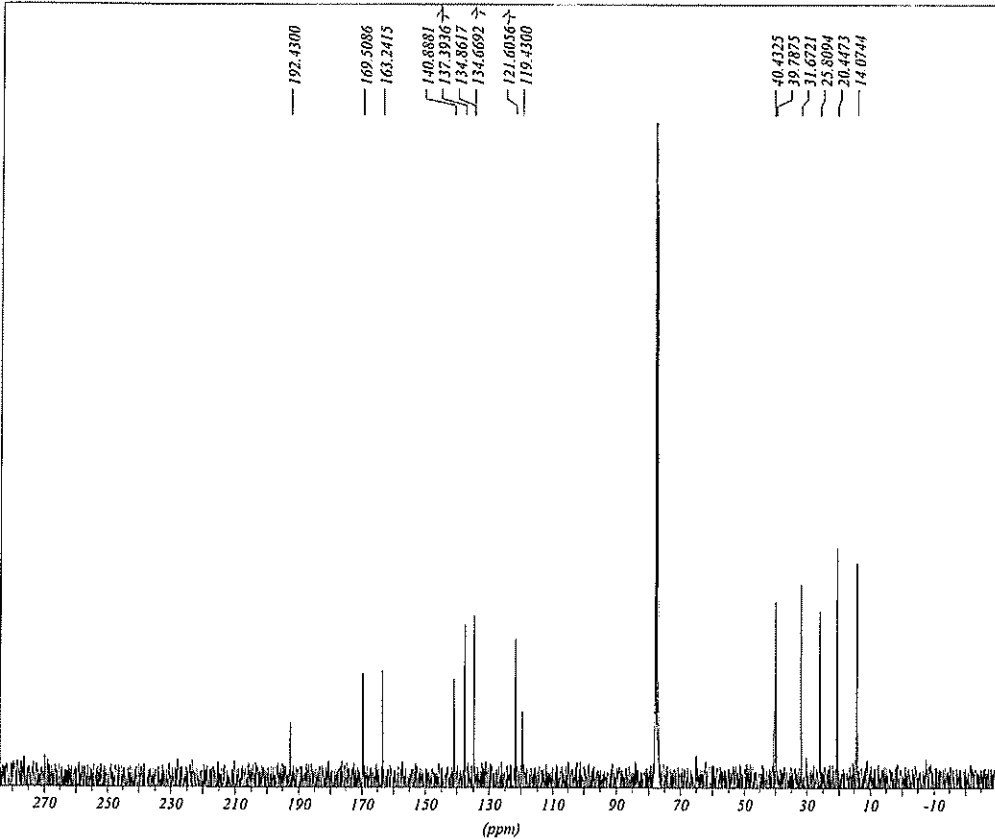
*** Processing Parameters ***

LB : 0.30 Hz
 PC : 1.00
 SF : 300.1700321 MHz
 SI : 16384

*** 1D NMR Plot Parameters ***

SR : 32.08 Hz
 SOLVENT : ?

16



*** Current Data Parameters ***

NAME : 097KLS-8
 EXPNO : 21
 PROCNO : 1

*** Acquisition Parameters ***

DATE_t : 12:39:22
 DATE_d : Aug 27 2009
 DS : 2
 LOCNUC : 2H
 NS : 2048
 O1 : 9532.38 Hz
 O2 : 1500.85 Hz
 RG : 16384.0000000
 SFO1 : 75.4873094 MHz
 SOLVENT : CDCl3
 SW : 315.4109 ppm
 TD : 65536
 TE : 300.2 K

*** Processing Parameters ***

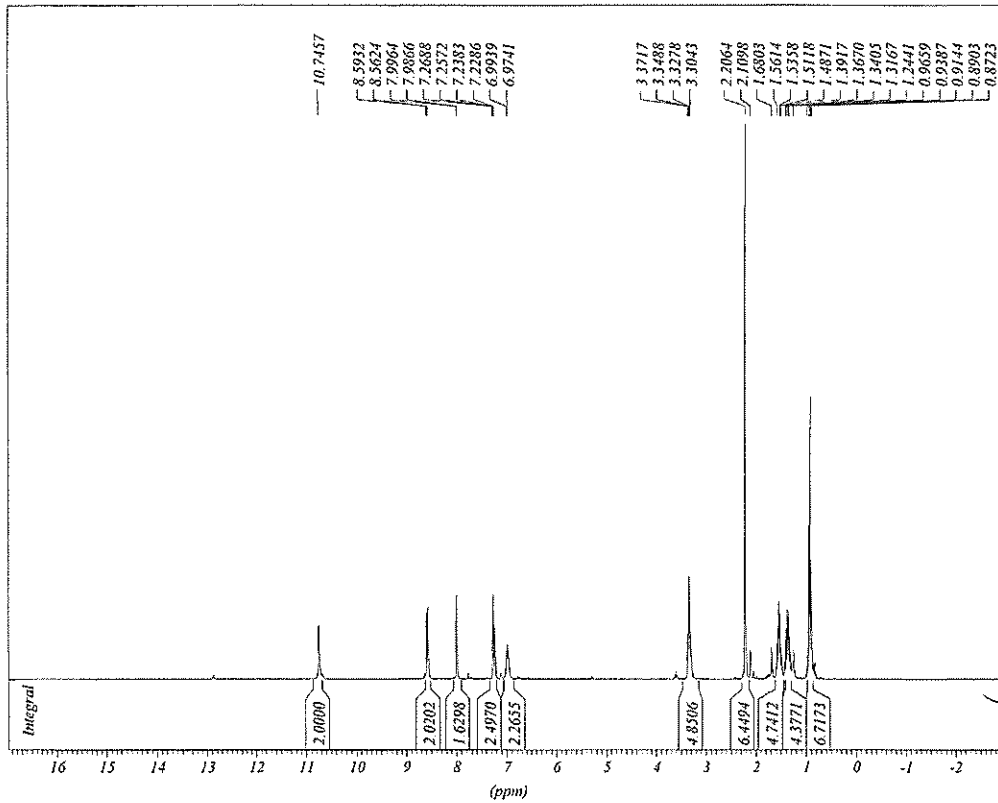
LB : 1.00 Hz
 PC : 1.40
 SF : 75.4777770 MHz
 SI : 32768

*** 1D NMR Plot Parameters ***

SR : -0.00 Hz
 SOLVENT : ?

Supervisor Kumar
butylamine + bisisatin5
1H CDC13 F: Wzm 5

COMPOUND 16

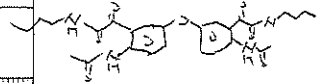


*** Current Data Parameters ***
NAME : OXTMCT-3
EXPNO : 1
PROCNO : 1

*** Acquisition Parameters ***
DATE_t : 01.01.03
DATE_d : Oct 27 2009
DS : 0
LOCNUC : 2H
NS : 16
O1 : 2100.91 Hz
O2 : 0.00 Hz
RG : 143.6999969
SFO1 : 300.1321009 MHz
SOLVENT : CDCl3
SW : 19.9752 ppm
TD : 32768
TE : 297.9 K

*** Processing Parameters ***
LB : 0.30 Hz
PC : 1.00
SF : 300.1300071 MHz
SI : 65536

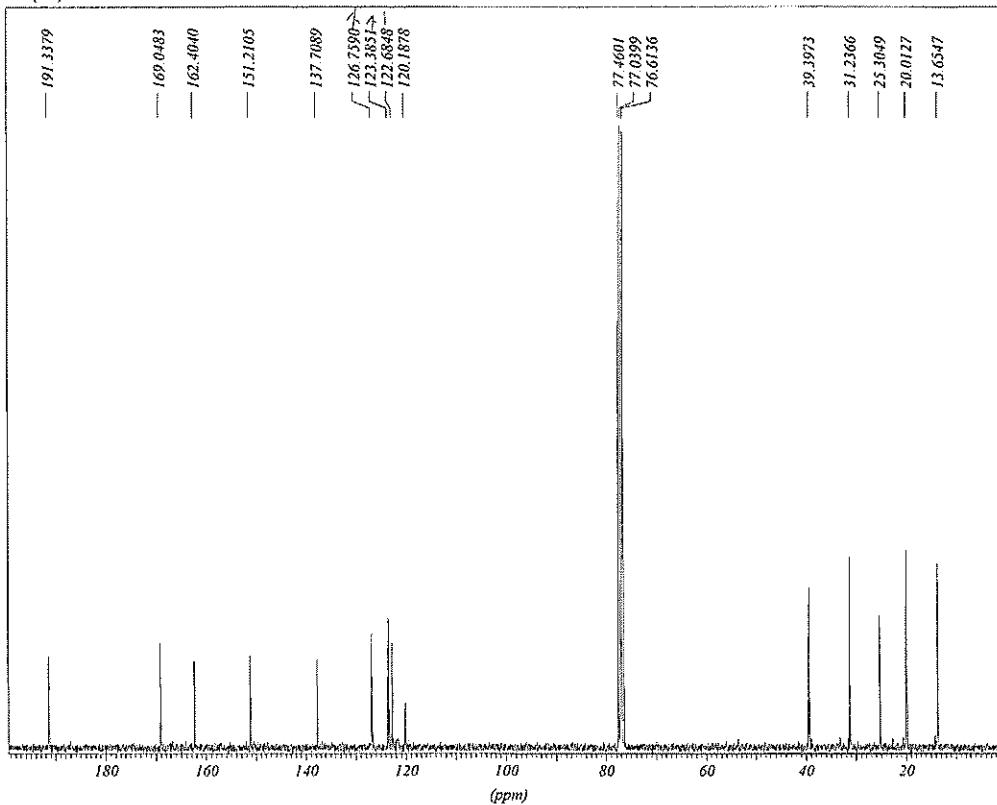
*** 1D NMR Plot Parameters ***
SR : 7.14 Hz
SOLVENT : ?



17

Supervisor Kumar
butylamine + bisisatin5
13C{1H} CDC13 F: Wzm 5

COMPOUND 16

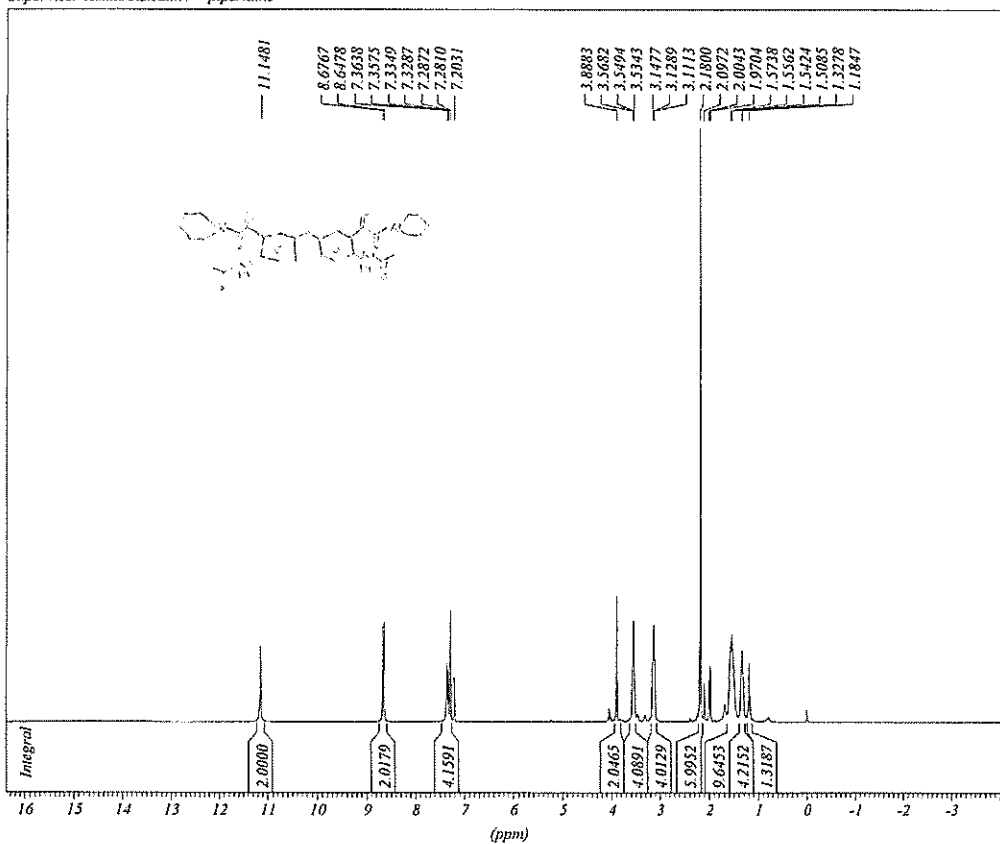


*** Current Data Parameters ***
NAME : OXTMCT-3
EXPNO : 2
PROCNO : 1

*** Acquisition Parameters ***
DATE_t : 02.50.13
DATE_d : Oct 27 2009
DS : 0
LOCNUC : 2H
NS : 2048
O1 : 7546.77 Hz
O2 : 1500.85 Hz
RG : 16384.0000000
SFO1 : 75.4752658 MHz
SOLVENT : CDCl3
SW : 199.5388 ppm
TD : 32768
TE : 297.8 K

*** Processing Parameters ***
LB : 1.00 Hz
PC : 1.40
SF : 75.4677485 MHz
SI : 32768

*** 1D NMR Plot Parameters ***
SR : 29.46 Hz
SOLVENT : ?



*** Current Data Parameters ***

NAME : 0EE514-Q
EXPNO : 30
PROCNO : 1

*** Acquisition Parameters ***

DATE_t : 22:52:20
DATE_d : Jul 18 2009
DS : 2
LOCNUC : 2H
NS : 16
O1 : 1853.67 Hz
O2 : 1853.67 Hz
RG : 203.1999969
SFO1 : 300.1718537 MHz
SOLVENT : CDCl3
SW : 20.5644 ppm
TD : 32768
TE : 300.2 K

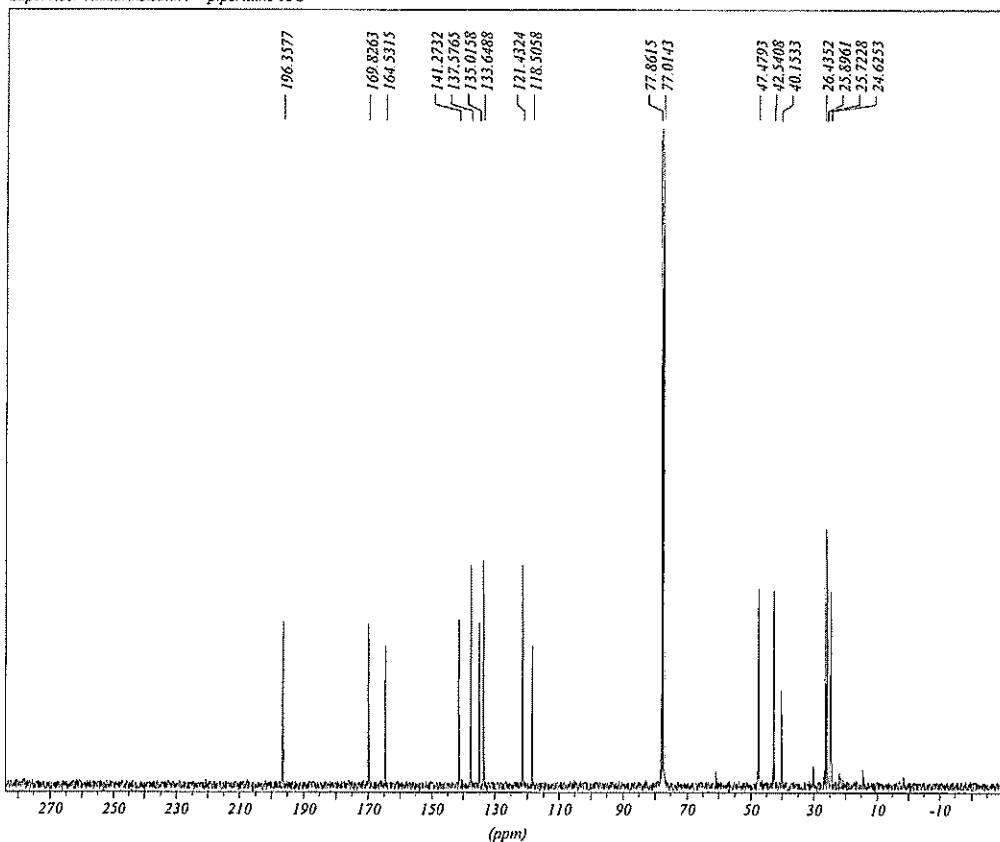
*** Processing Parameters ***

LB : 0.30 Hz
PC : 1.00
SF : 300.1700223 MHz
SI : 16384

*** 1D NMR Plot Parameters ***

SR : 22.30 Hz
SOLVENT : ?

12



*** Current Data Parameters ***

NAME : 0EE514-Q
EXPNO : 31
PROCNO : 1

*** Acquisition Parameters ***

DATE_t : 00:50:42
DATE_d : Jul 19 2009
DS : 2
LOCNUC : 2H
NS : 2048
O1 : 9532.38 Hz
O2 : 1500.85 Hz
RG : 16384.0000000
SFO1 : 75.4873094 MHz
SOLVENT : CDCl3
SW : 315.4109 ppm
TD : 65536
TE : 300.2 K

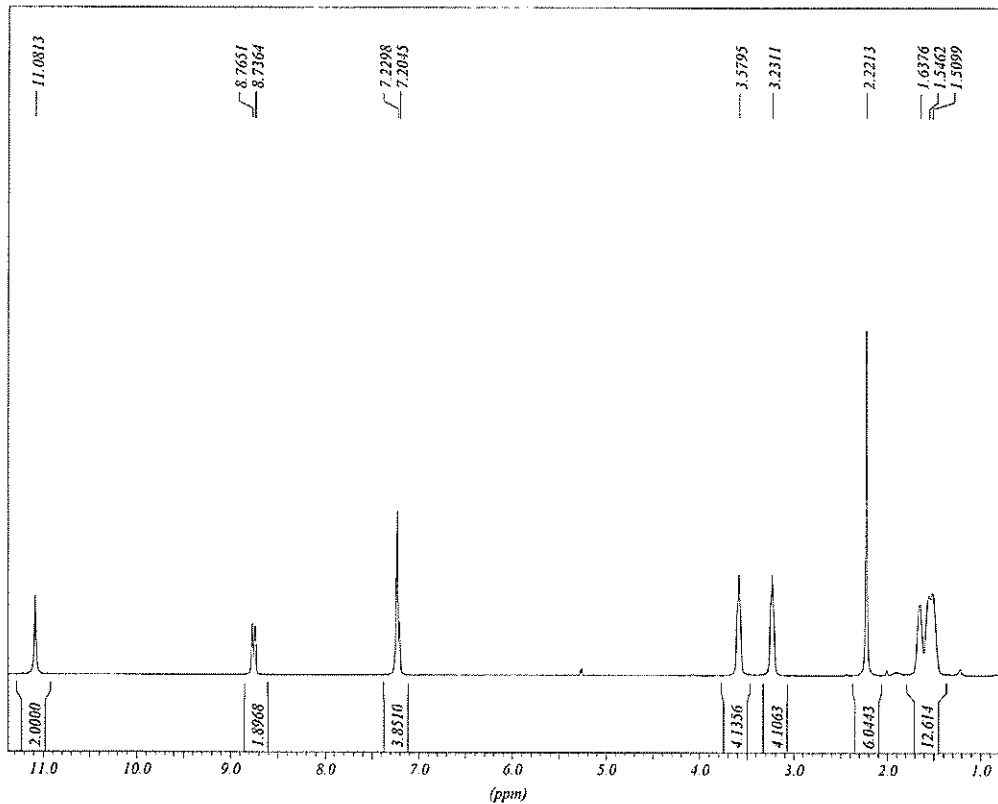
*** Processing Parameters ***

LB : 1.00 Hz
PC : 1.40
SF : 75.4777770 MHz
SI : 32768

*** 1D NMR Plot Parameters ***

SR : -0.00 Hz
SOLVENT : ?

COMPOUND 18



*** Current Data Parameters ***

NAME : 023MOS-T
 EXPNO : 4
 PROCNO : 1

*** Acquisition Parameters ***

DATE_t : 00.44.36
 DATE_d : Oct 29 2009
 DS : 0
 LOCNUC : 2H
 NS : 16
 O1 : 2100.91 Hz
 O2 : 0.00 Hz
 RG : 57.000000
 SFO1 : 300.1321009 MHz
 SOLVENT : CDCl3
 SW : 19.9752 ppm
 TD : 32768
 TE : 297.9 K

*** Processing Parameters ***

LB : 0.30 Hz
 PC : 1.00
 SF : 300.1300071 MHz
 SI : 65536

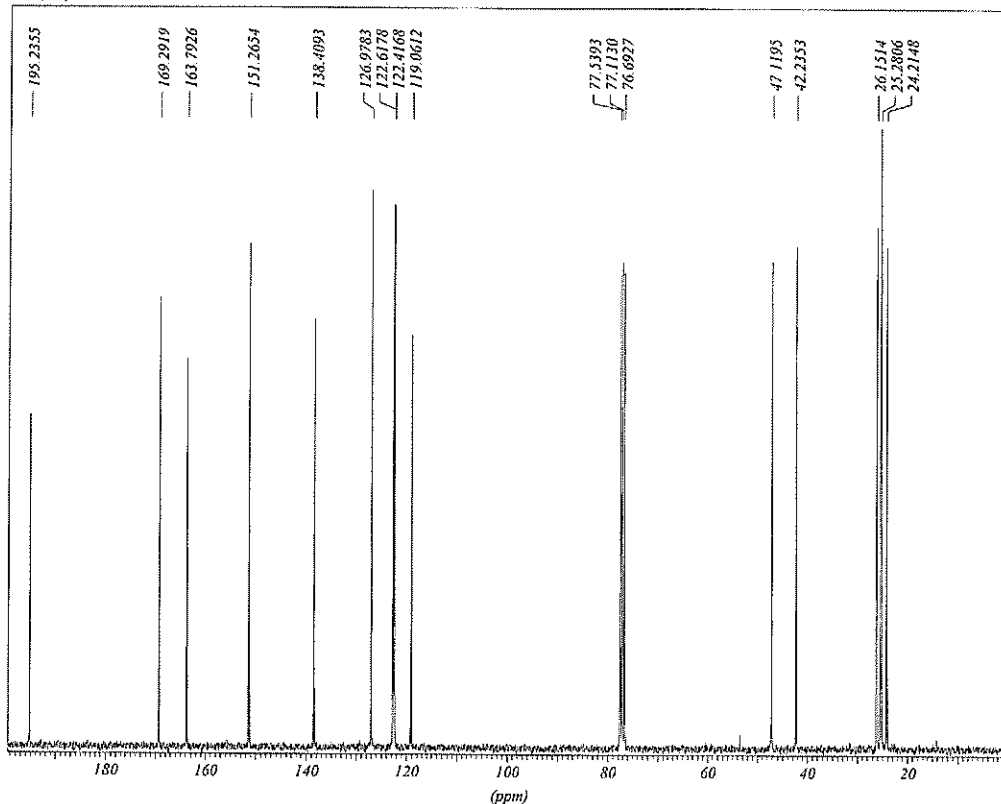
*** 1D NMR Plot Parameters ***

SR : 7.14 Hz
 SOLVENT : ?



19

COMPOUND 18



*** Current Data Parameters ***

NAME : 023MOS-T
 EXPNO : 5
 PROCNO : 1

*** Acquisition Parameters ***

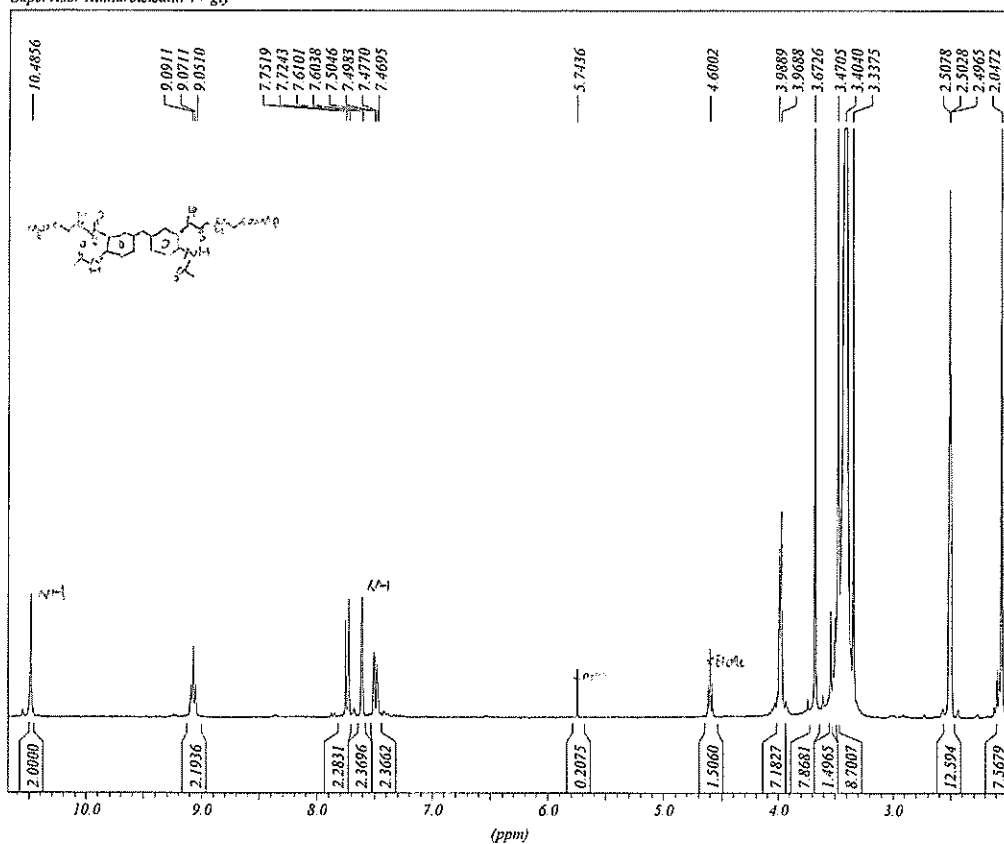
DATE_t : 02:33:52
 DATE_d : Oct 29 2009
 DS : 0
 LOCNUC : 2H
 NS : 2048
 O1 : 7546.77 Hz
 O2 : 1500.85 Hz
 RG : 18390.4003906
 SFO1 : 75.4752658 MHz
 SOLVENT : CDCl3
 SW : 199.5388 ppm
 TD : 32768
 TE : 297.6 K

*** Processing Parameters ***

LB : 1.00 Hz
 PC : 1.40
 SF : 75.4677485 MHz
 SI : 32768

*** 1D NMR Plot Parameters ***

SR : 29.46 Hz
 SOLVENT : ?



*** Current Data Parameters ***

NAME : Ofrew9-i
EXPNO : 40
PROCNO : 1

*** Acquisition Parameters ***

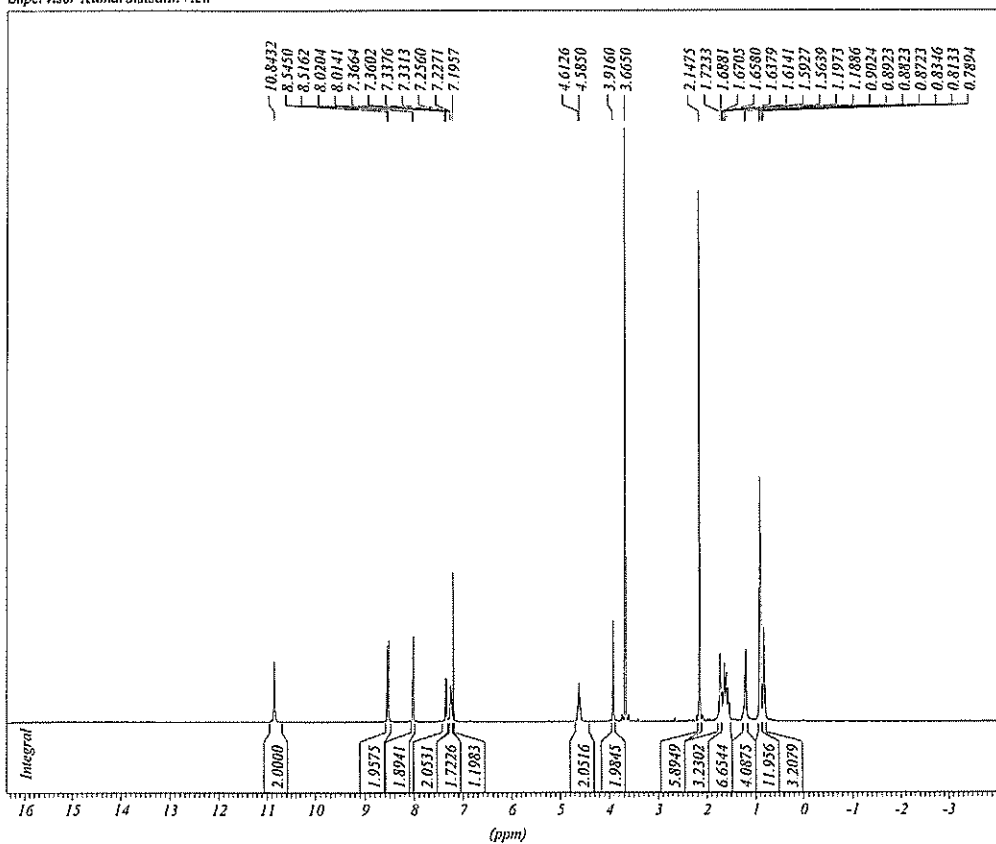
DATE_1 : 22:11:59
DATE_d : Jul 12 2009
DS : 2
LOCNUC : 2H
NS : 16
O1 : 1853.67 Hz
O2 : 1853.67 Hz
RG : 203.1999969
SFO1 : 300.1718537 MHz
SOLVENT : DMSO
SW : 20.5644 ppm
TD : 32768
TE : 299.2 K

*** Processing Parameters ***

LB : 0.30 Hz
PC : 1.00
SF : 300.1700000 MHz
SI : 16384

*** 1D NMR Plot Parameters ***

SR : -0.00 Hz
SOLVENT : ?



*** Current Data Parameters ***

NAME : 00SP2V-X
EXPNO : 10
PROCNO : 1

*** Acquisition Parameters ***

DATE_1 : 22:30:25
DATE_d : Jul 13 2009
DS : 2
LOCNUC : 2H
NS : 16
O1 : 1853.67 Hz
O2 : 1853.67 Hz
RG : 512.0000000
SFO1 : 300.1718537 MHz
SOLVENT : CDCl3
SW : 20.5644 ppm
TD : 32768
TE : 299.2 K

*** Processing Parameters ***

LB : 0.30 Hz
PC : 1.00
SF : 300.1700245 MHz
SI : 16384

*** 1D NMR Plot Parameters ***

SR : 24.52 Hz
SOLVENT : ?

Supervisor Kumarleu+bisisatin4

COMPOUND 22



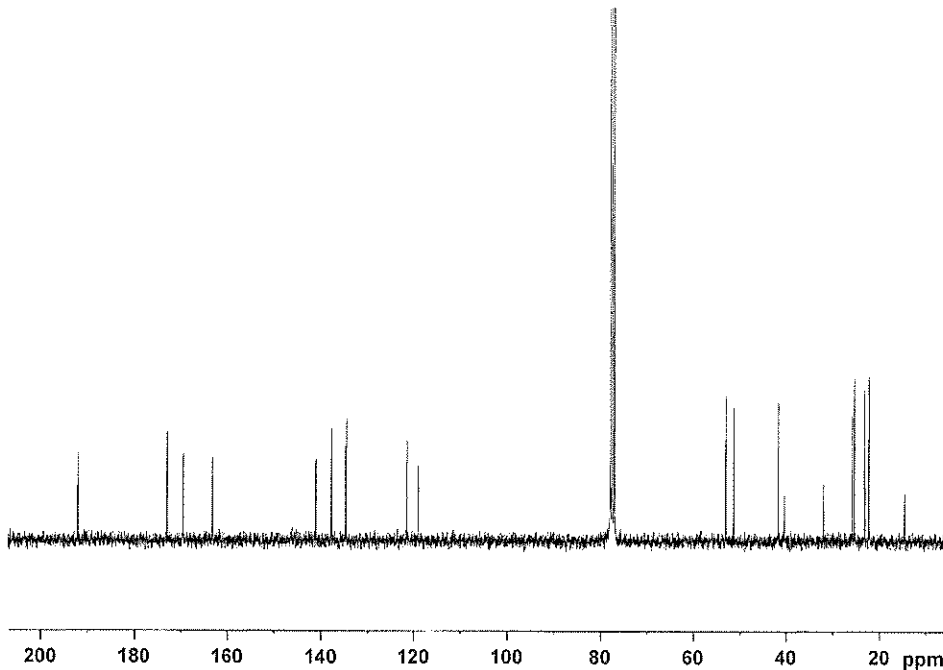
Current Data Parameters
 NAME 090716-22n
 EXPNO 21
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20090717
 Time 4.15
 INSTRUM dpr1
 PROBHD 5 mm QNP 1H/13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 2048
 DS 2
 SHH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 16384
 DN 21.000 usec
 DE 25.00 usec
 TE 300.2 K
 D1 2.0000000 sec
 d11 0.0300000 sec
 DELTA 1.8999998 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 7.50 usec
 PL1 -3.00 dB
 SFO1 75.4873094 MHz

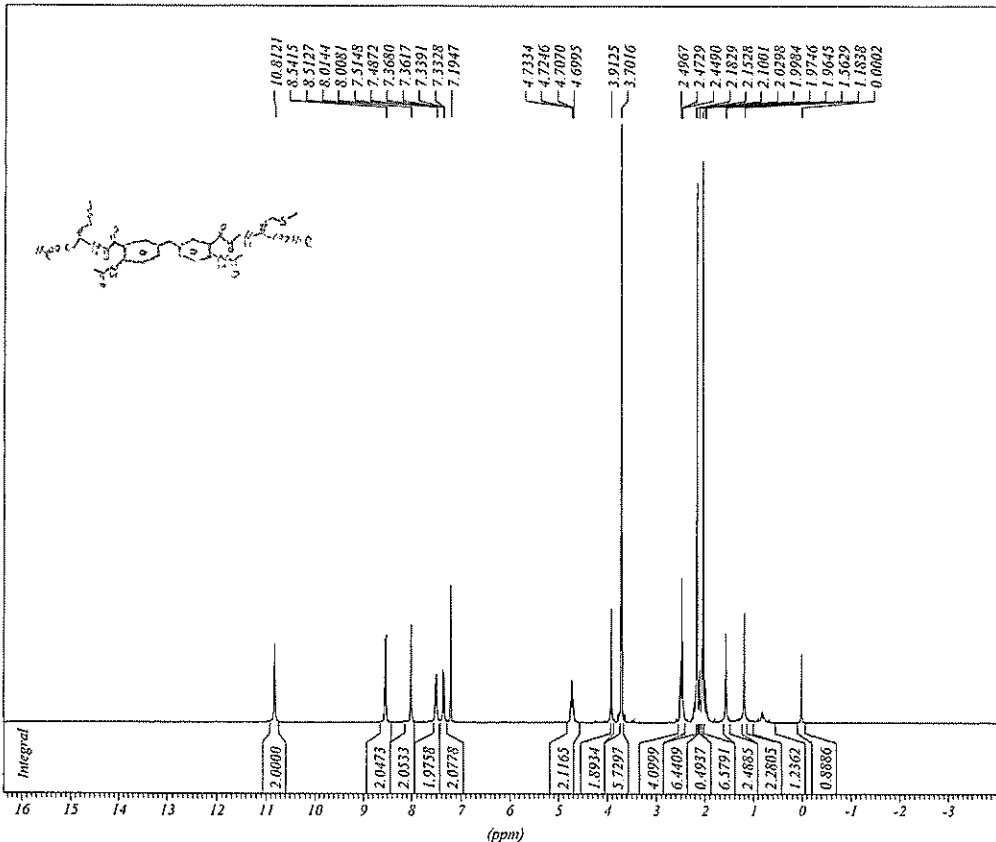
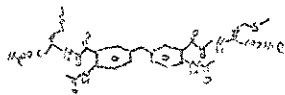
===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 105.00 usec
 PL2 -3.00 dB
 PL12 17.60 dB
 PL13 23.60 dB
 SFO2 300.1715008 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4777770 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



Supervisor Kumarbisatisin+met

COMPOUND 23



*** Current Data Parameters ***
 NAME 01Z3DS-4
 EXPNO 20
 PROCNO 1

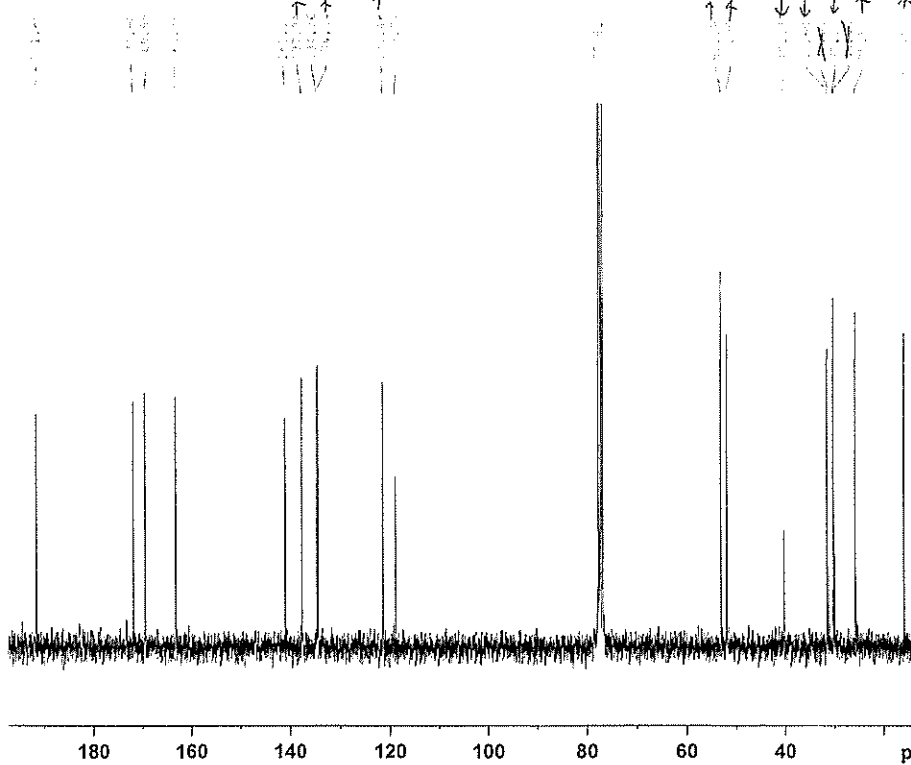
*** Acquisition Parameters ***
 DATE_ 19-33-13
 DATE_d Jul 14 2009
 DS 2
 LOCNUC 2H
 NS 16
 O1 1853.67 Hz
 O2 1853.67 Hz
 RG 456.1000061
 SFO1 300.1718537 MHz
 SOLVENT CDCl3
 SW 20.5644 ppm
 TD 32768
 TE 298.2 K

*** Processing Parameters ***
 LB 0.30 Hz
 PC 1.00
 SF 300.1700248 MHz
 SI 16384

*** 1D NMR Plot Parameters ***
 SR 24.82 Hz
 SOLVENT ?

Supervisor Kumarmet+bisisatin4

COMPOUND 23



Current Data Parameters
 NAME 090716-zzn
 EXPNO 41
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20090717
 Time 7.19
 INSTRUM dpx1
 PROBHD 5 mm QNP 1H/13
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 2048
 DE 2
 SWH 23809.523 Hz
 FIDRES 0.363304 Hz
 AQ 1.3763061 sec
 RG 16384
 DW 21.000 usec
 DE 25.00 usec
 TE 300.2 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TDO 1

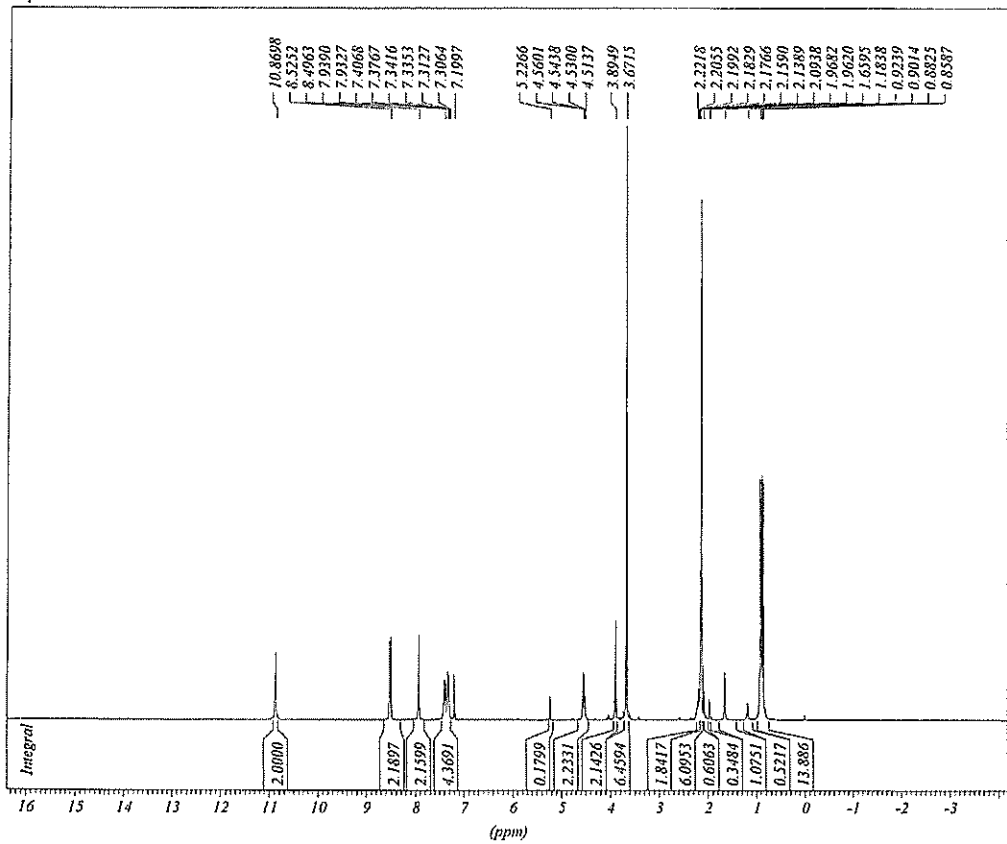
----- CHANNEL f1 -----
 NUC1 13C
 P1 7.50 usec
 PL1 -3.00 dB
 SFO1 75.4873094 MHz

----- CHANNEL f2 -----
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 105.00 usec
 PL2 -3.00 dB
 PL12 17.60 dB
 PL13 23.60 dB
 SFO2 300.1715008 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4777770 MHz
 WDM EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

Supervisor Kumarbisisatin4 + val

COMPOUND 24

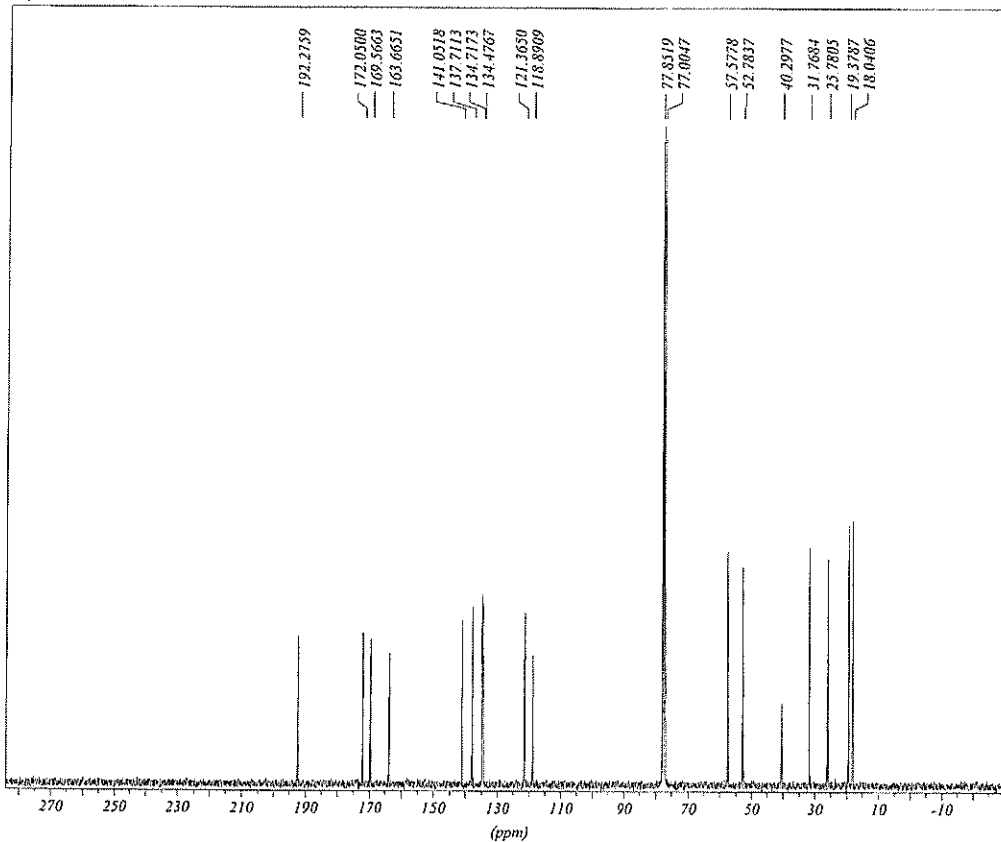


*** Current Data Parameters ***
 NAME 0EE514-Q
 EXPNO 20
 PROCNO 1

*** Acquisition Parameters ***
 DATE_1 19-08-06
 DATE_d Jul 18 2009
 DS 2
 LOCNUC 2H
 NS 16
 O1 1853.67 Hz
 O2 1853.67 Hz
 RG 228.1000061
 SFO1 300.1718537 MHz
 SOLVENT CDCl3
 SW 20.5644 ppm
 TD 32768
 TE 300.2 K

*** Processing Parameters ***
 LB 0.30 Hz
 PC 1.00
 SF 300.1700233 MHz
 SI 16384

*** 1D NMR Plot Parameters ***
 SR 33.33 Hz
 SOLVENT ?



*** Current Data Parameters ***

NAME : 0EE14-Q
EXPNO : 21
PROCNO : 1

*** Acquisition Parameters ***

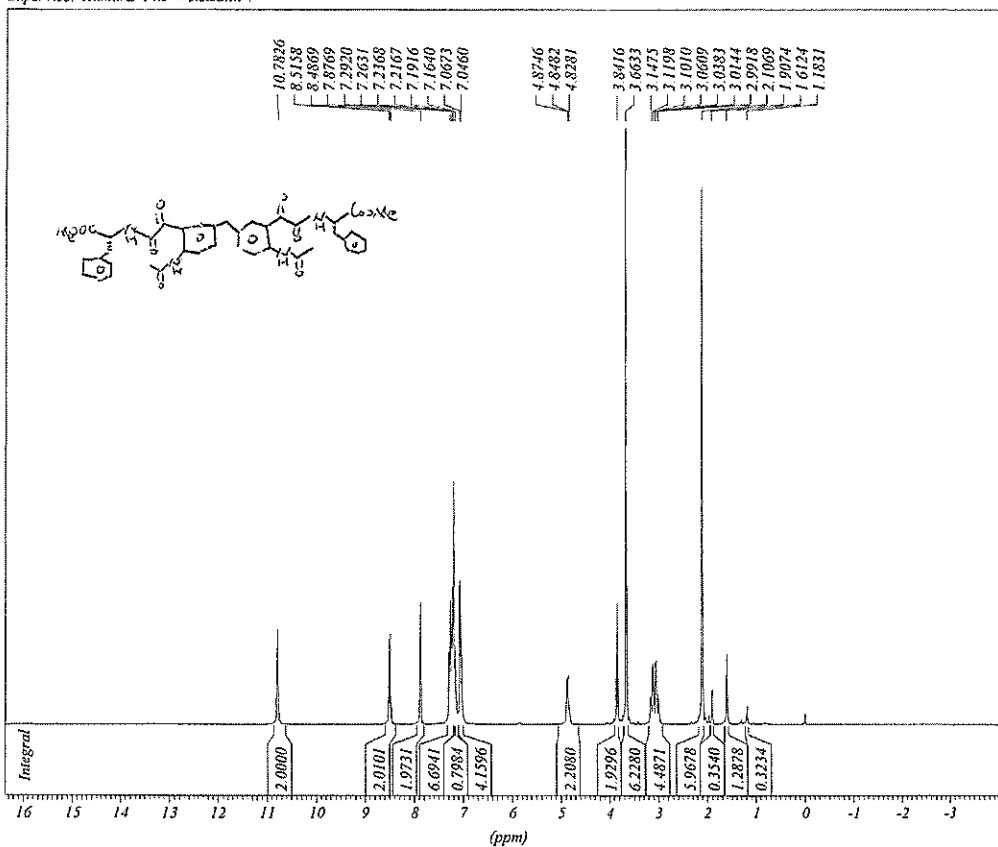
DATE_t : 21-07-01
DATE_d : Jul 18 2009
DS : 2
LOCNUC : 2H
NS : 2048
O1 : 9532.38 Hz
O2 : 1500.85 Hz
RG : 14596.5000000
SFO1 : 75.4873094 MHz
SOLVENT : CDCl3
SW : 315.4109 ppm
TD : 65536
TE : 300.2 K

*** Processing Parameters ***

LB : 1.00 Hz
PC : 1.40
SF : 75.4777770 MHz
SI : 32768

*** 1D NMR Plot Parameters ***

SR : -0.00 Hz
SOLVENT : ?



*** Current Data Parameters ***

NAME : 01Z3D8-4
EXPNO : 40
PROCNO : 1

*** Acquisition Parameters ***

DATE_t : 18-16-48
DATE_d : Jul 15 2009
DS : 2
LOCNUC : 2H
NS : 16
O1 : 1853.67 Hz
O2 : 1853.67 Hz
RG : 256.0000000
SFO1 : 300.1718537 MHz
SOLVENT : CDCl3
SW : 20.5644 ppm
TD : 32768
TE : 298.2 K

*** Processing Parameters ***

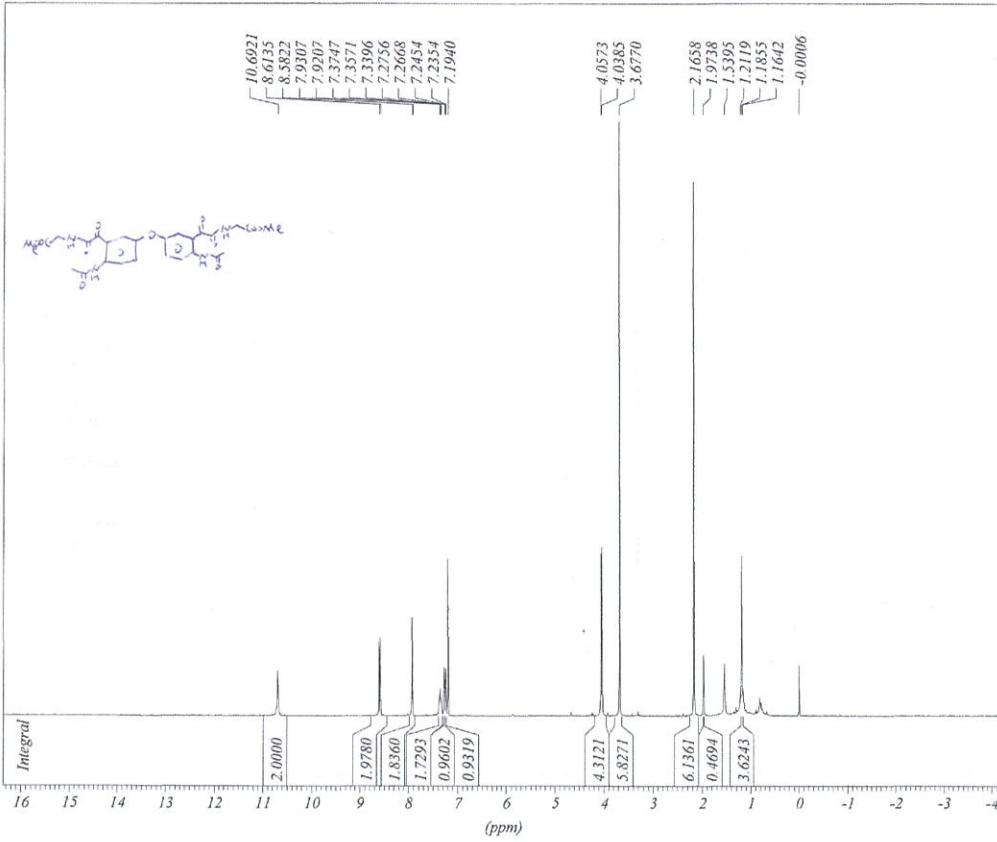
LB : 0.30 Hz
PC : 1.00
SF : 300.1700265 MHz
SI : 16384

*** 1D NMR Plot Parameters ***

SR : 26.53 Hz
SOLVENT : ?

COMPOUND 27

Supervisor Kumarbisatin 5+gly



*** Current Data Parameters ***

NAME : 0G8YST-9
EXPNO : 20
PROCNO : 1

*** Acquisition Parameters ***

DATE_1 : 14:37:03
DATE_d : Sep 23 2009
DS : 2
LOCNUC : 2H
NS : 16
O1 : 1853.67 Hz
O2 : 1853.67 Hz
RG : 574.7000122
SFO1 : 300.1718537 MHz
SOLVENT : CDCl3
SW : 20.5644 ppm
TD : 32768
TE : 300.2 K

*** Processing Parameters ***

LB : 0.30 Hz
PC : 1.00
SF : 300.1700315 MHz
SI : 16384

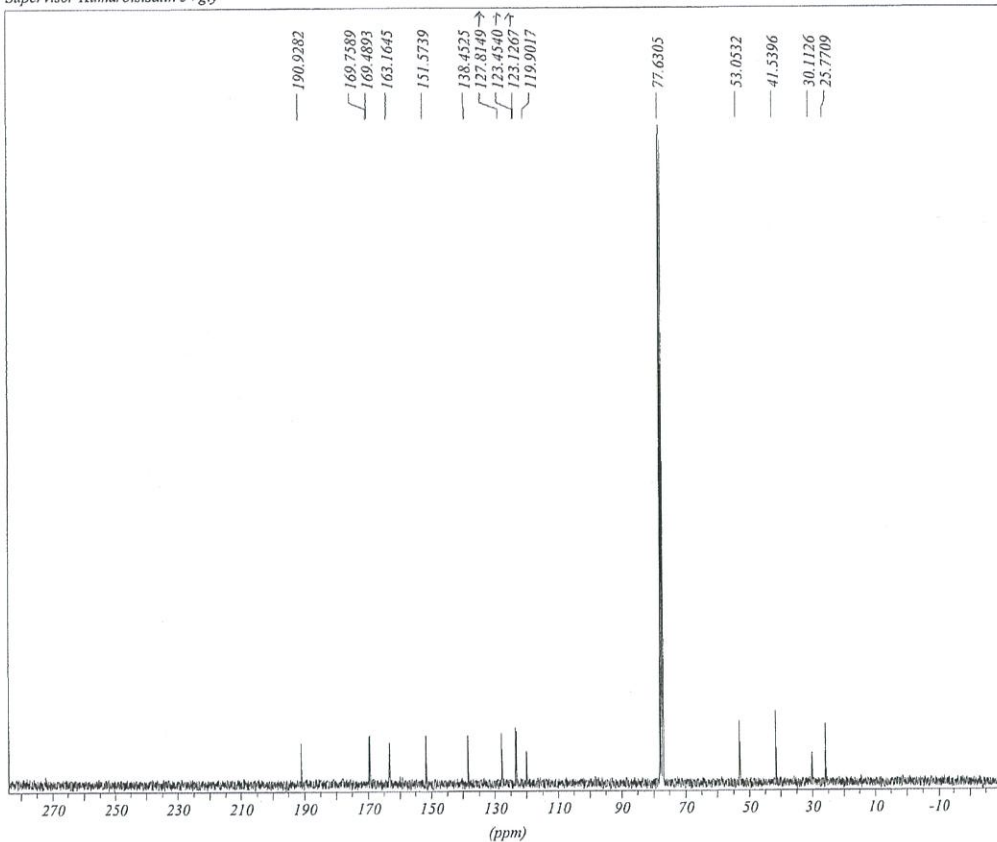
*** 1D NMR Plot Parameters ***

SR : 31.46 Hz
SOLVENT : ?

32

COMPOUND 27

Supervisor Kumarbisatin 5+gly



*** Current Data Parameters ***

NAME : 0G8YST-9
EXPNO : 21
PROCNO : 1

*** Acquisition Parameters ***

DATE_1 : 16:05:59
DATE_d : Sep 23 2009
DS : 2
LOCNUC : 2H
NS : 1536
O1 : 9532.38 Hz
O2 : 1500.85 Hz
RG : 16384.0000000
SFO1 : 75.4873094 MHz
SOLVENT : CDCl3
SW : 315.4109 ppm
TD : 65536
TE : 300.2 K

*** Processing Parameters ***

LB : 1.00 Hz
PC : 1.40
SF : 75.4777770 MHz
SI : 32768

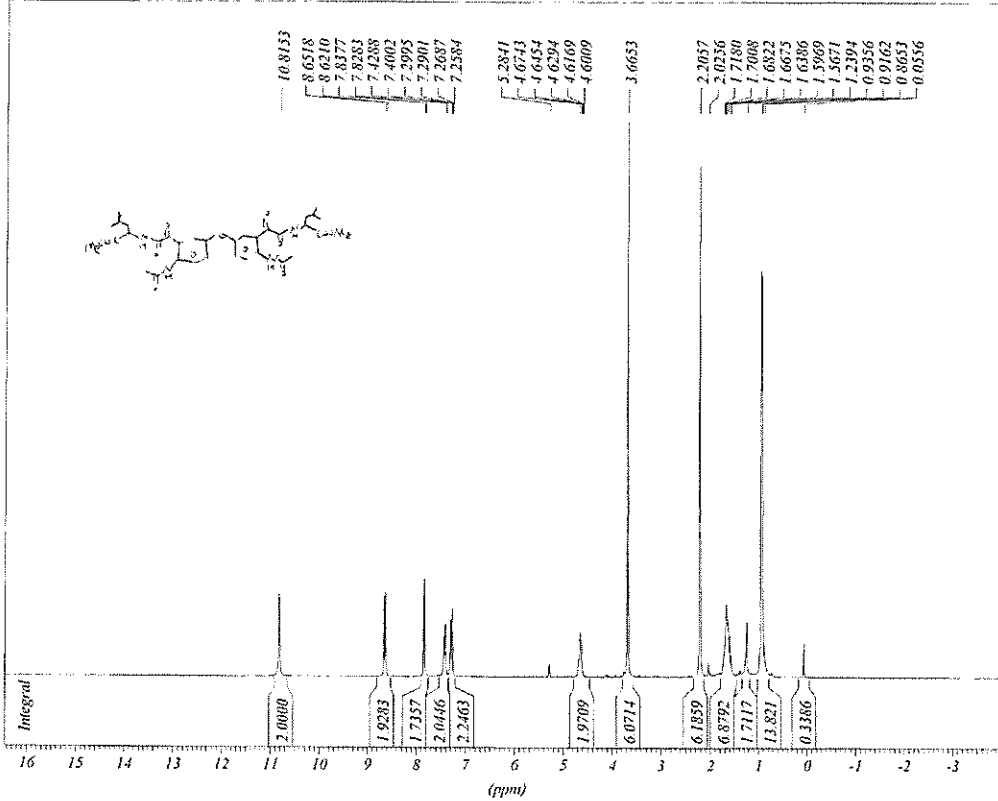
*** 1D NMR Plot Parameters ***

SR : -0.00 Hz
SOLVENT : ?

27

Supervisor Kumar
 bisisatin 5+ lev
 1H CDC13 F Wzm 23

COMPOUND 28



*** Current Data Parameters ***
 NAME : 06WLV8-W
 EXPNO : 1
 PROCNO : 1

*** Acquisition Parameters ***
 DATE_1 : 01 45 26
 DATE_d : Oct 15 2009
 DS : 4
 LOCNUC : 2H
 NS : 16
 O1 : 1853.67 Hz
 O2 : 0.00 Hz
 RG : 71.8000631
 SFO1 : 300.1318537 MHz
 SOLVENT : CDCl3
 SW : 20.5671 ppm
 TD : 32768
 TE : 297.5 K

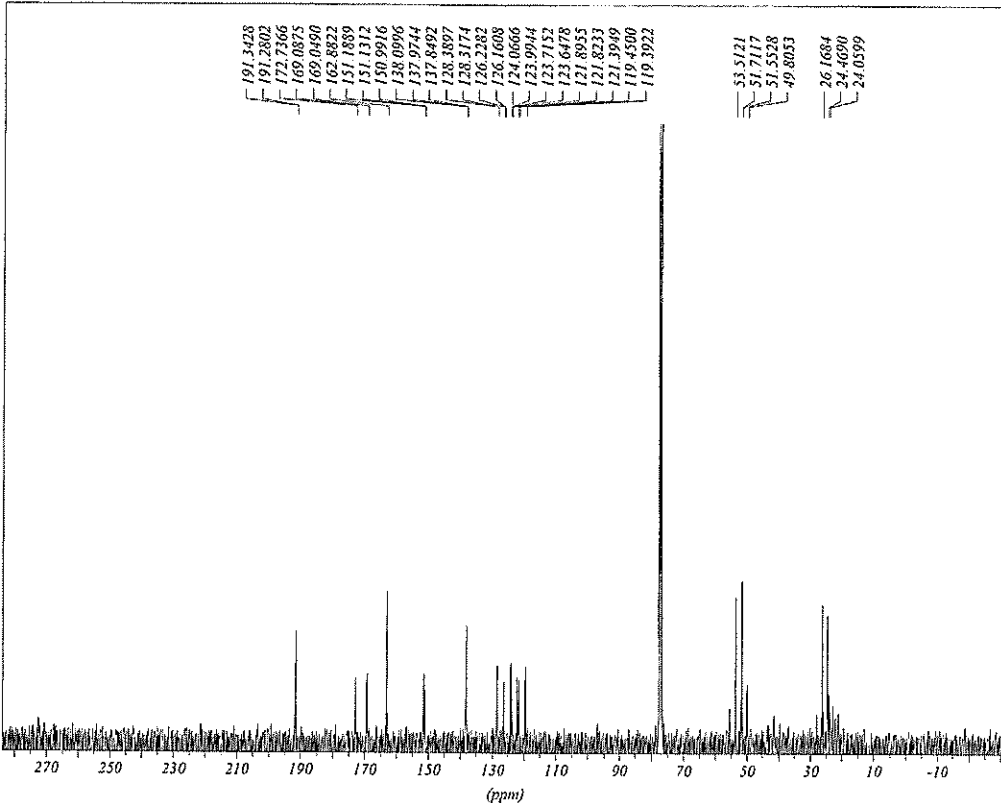
*** Processing Parameters ***
 LB : 0.30 Hz
 PC : 1.00
 SF : 300.1300071 MHz
 SI : 65336

*** 1D NMR Plot Parameters ***
 SR : 7.14 Hz
 SOLVENT : ?

33

Supervisor Kumar
 bisisatin 5+ lev
 13C CDC13 F Wzm 23

COMPOUND 28



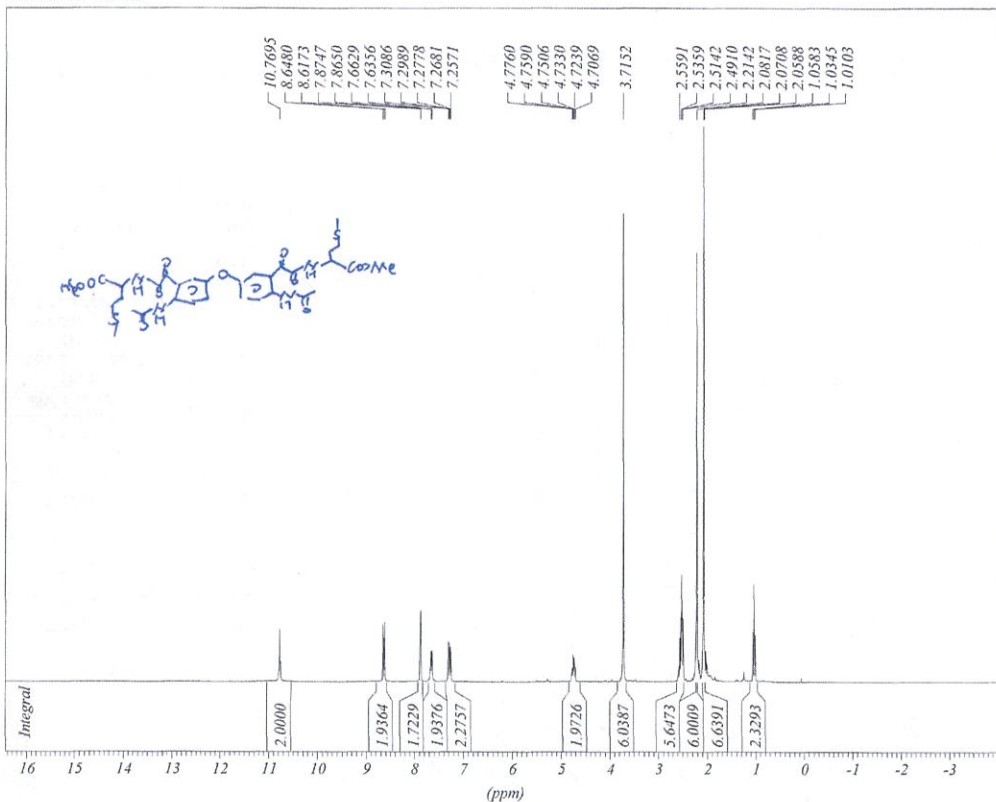
*** Current Data Parameters ***
 NAME : 06WLV8-W
 EXPNO : 2
 PROCNO : 1

*** Acquisition Parameters ***
 DATE_1 : 03 43 09
 DATE_d : Oct 15 2009
 DS : 0
 LOCNUC : 13C
 NS : 2048
 O1 : 9502.00 Hz
 O2 : 0.00 Hz
 RG : 20642.5000000
 SFO1 : 75.4772510 MHz
 SOLVENT : CDCl3
 SW : 315.4530 ppm
 TD : 65536
 TE : 298.4 K

*** Processing Parameters ***
 LB : 1.00 Hz
 PC : 1.40
 SF : 75.4677485 MHz
 SI : 65536

*** 1D NMR Plot Parameters ***
 SR : -0.54 Hz
 SOLVENT : ?

COMPOUND 29



*** Current Data Parameters ***

NAME : OJSD3M-4
EXPNO : 4
PROCNO : 1

*** Acquisition Parameters ***

DATE_1 : 13:36:42
DATE_d : Oct 19 2009
DS : 4
LOCNUC : 2H
NS : 16
O1 : 1853.67 Hz
O2 : 0.00 Hz
RG : 128.0000000
SFO1 : 300.1318537 MHz
SOLVENT : CDCl3
SW : 20.5671 ppm
TD : 32768
TE : 297.8 K

*** Processing Parameters ***

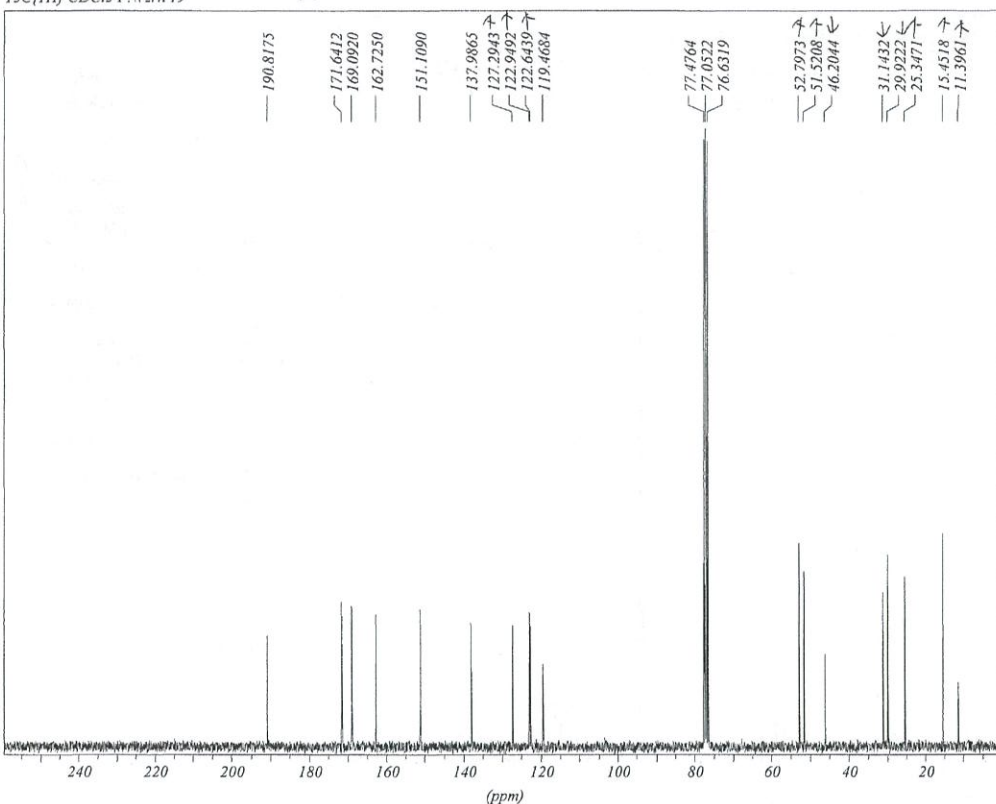
LB : 0.30 Hz
PC : 1.00
SF : 300.1300071 MHz
SI : 65536

*** 1D NMR Plot Parameters ***

SR : 7.14 Hz
SOLVENT : ?

39

COMPOUND 29



*** Current Data Parameters ***

NAME : OJSD3M-4
EXPNO : 5
PROCNO : 1

*** Acquisition Parameters ***

DATE_1 : 14:42:15
DATE_d : Oct 19 2009
DS : 0
LOCNUC : 2H
NS : 1024
O1 : 9810.80 Hz
O2 : 1500.85 Hz
RG : 18390.4003906
SFO1 : 75.4775298 MHz
SOLVENT : CDCl3
SW : 259.7838 ppm
TD : 65536
TE : 298.1 K

*** Processing Parameters ***

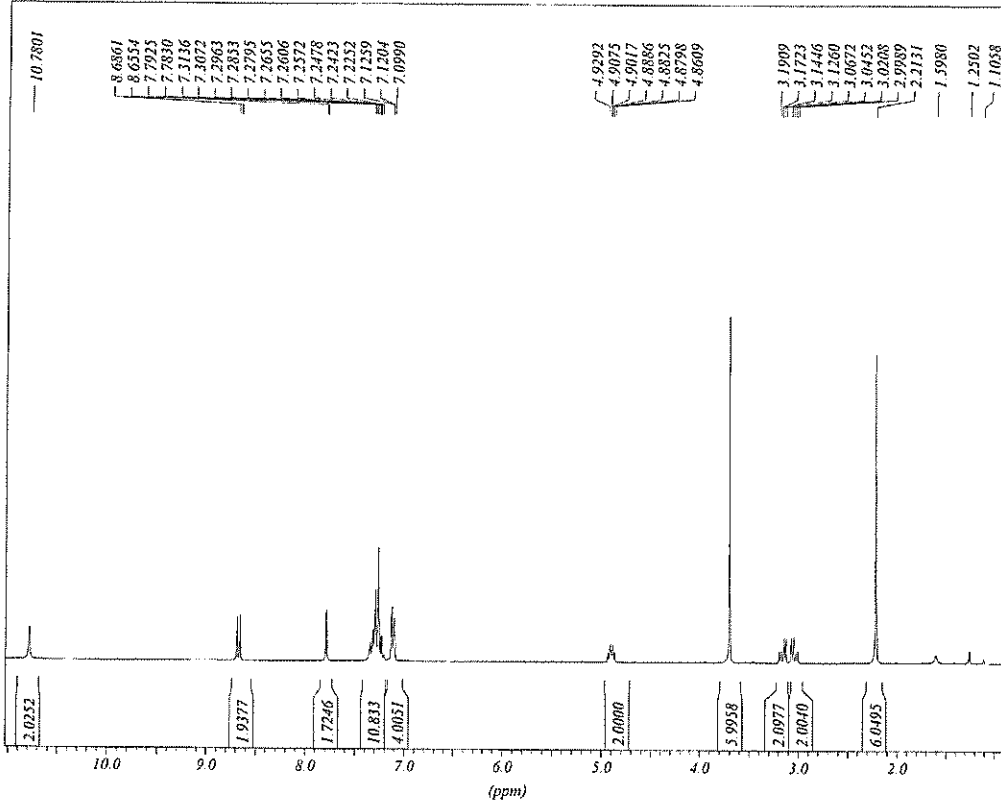
LB : 1.00 Hz
PC : 1.40
SF : 75.4677485 MHz
SI : 65536

*** 1D NMR Plot Parameters ***

SR : 29.46 Hz
SOLVENT : ?

Supervisor Kumar
D-phe-bisatin5
1H CDCl3 F Wzn 19

COMPOUND 30



*** Current Data Parameters ***

NAME : OUZENS-A
EXPNO : 1
PROCNO : 1

*** Acquisition Parameters ***

DATE_1 : 01:30:07
DATE_d : Oct 26 2009
DS : 0
LOCNUC : 2H
NS : 16
O1 : 2100.91 Hz
O2 : 0.00 Hz
RG : 322.5000000
SFO1 : 300.1321009 MHz
SOLVENT : CDCl3
SW : 19.9752 ppm
TD : 32768
TE : 298.3 K

*** Processing Parameters ***

LB : 0.30 Hz
PC : 1.00
SF : 300.1300071 MHz
SI : 65336

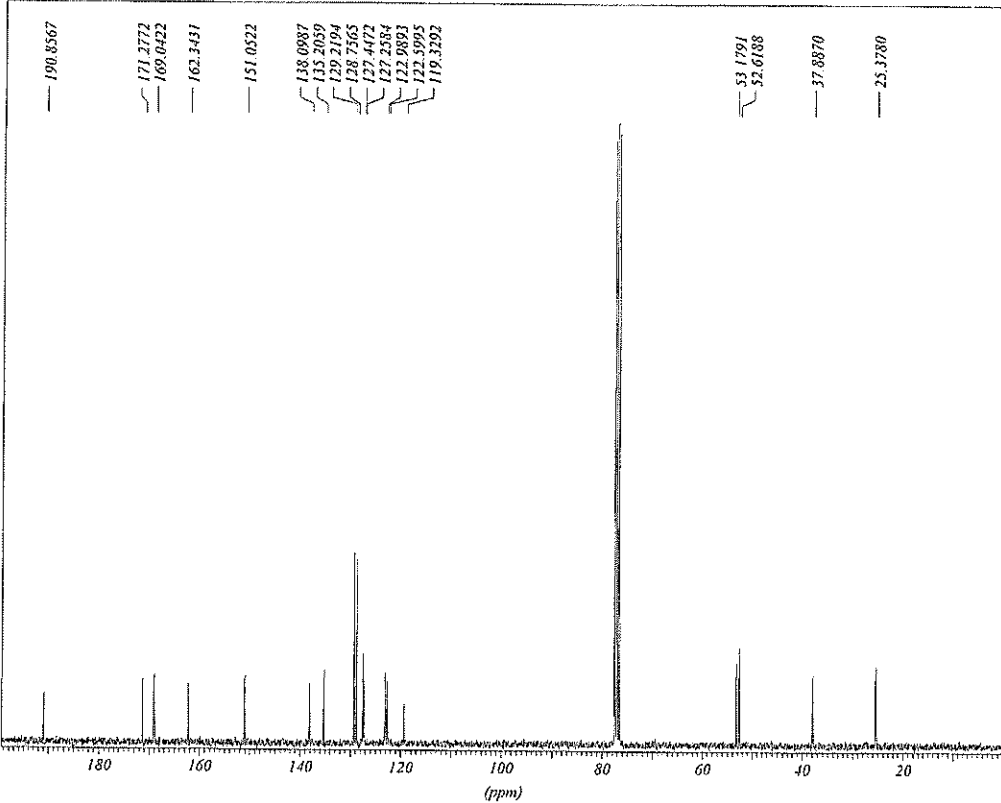
*** ID NMR Plot Parameters ***

SR : 7.14 Hz
SOLVENT : ?

37

Supervisor Kumar
D-phe-bisatin5
13C{1H} CDCl3 F Wzn 19

COMPOUND 30



*** Current Data Parameters ***

NAME : OUZENS-A
EXPNO : 2
PROCNO : 1

*** Acquisition Parameters ***

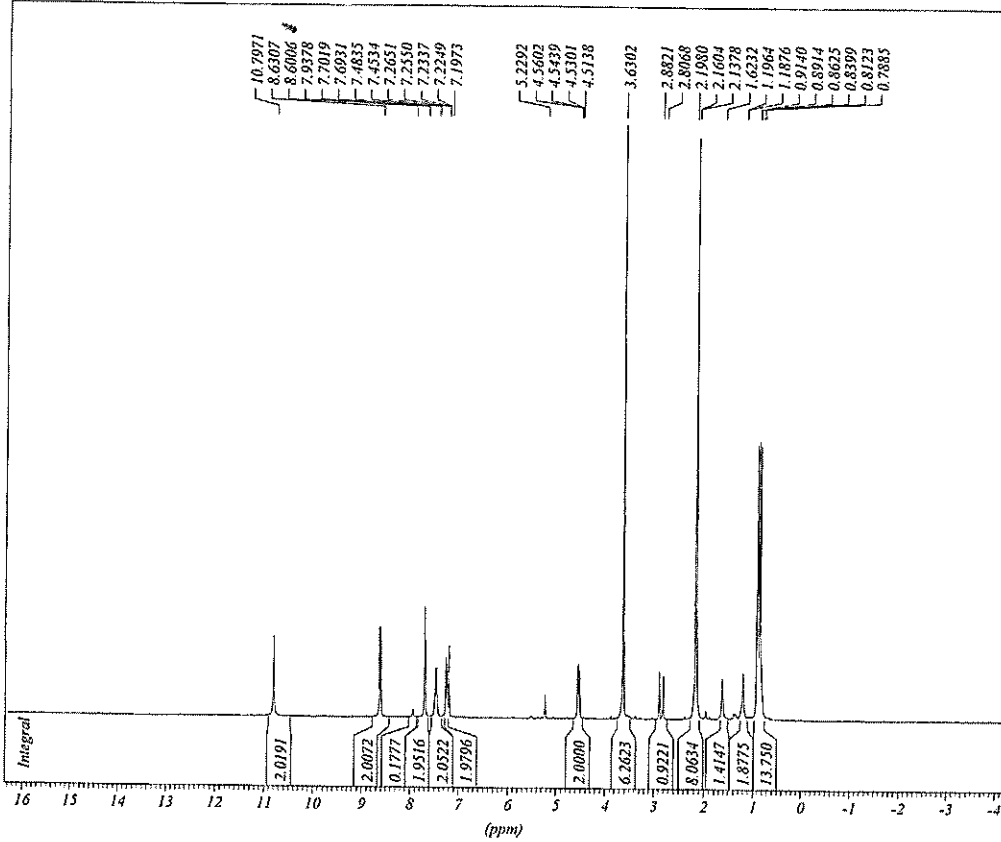
DATE_1 : 03:19:21
DATE_d : Oct 26 2009
DS : 0
LOCNUC : 2H
NS : 2048
O1 : 7546.77 Hz
O2 : 1500.85 Hz
RG : 14596.5000000
SFO1 : 75.4752658 MHz
SOLVENT : CDCl3
SW : 199.5388 ppm
TD : 32768
TE : 298.3 K

*** Processing Parameters ***

LB : 1.00 Hz
PC : 1.40
SF : 75.4677485 MHz
SI : 32768

*** ID NMR Plot Parameters ***

SR : 29.46 Hz
SOLVENT : ?



*** Current Data Parameters ***

NAME : 0MFJ40-Y
 EXPNO : 10
 PROCNO : 1

*** Acquisition Parameters ***

DATE_1 : 12-57-52
 DATE_d : Sep 15 2009
 DS : 2
 LOCNUC : 2H
 NS : 16
 O1 : 1853.67 Hz
 O2 : 1853.67 Hz
 RG : 322.5000000
 SFO1 : 300.1718537 MHz
 SOLVENT : CDCl3
 SW : 20.5644 ppm
 TD : 32768
 TE : 300.2 K

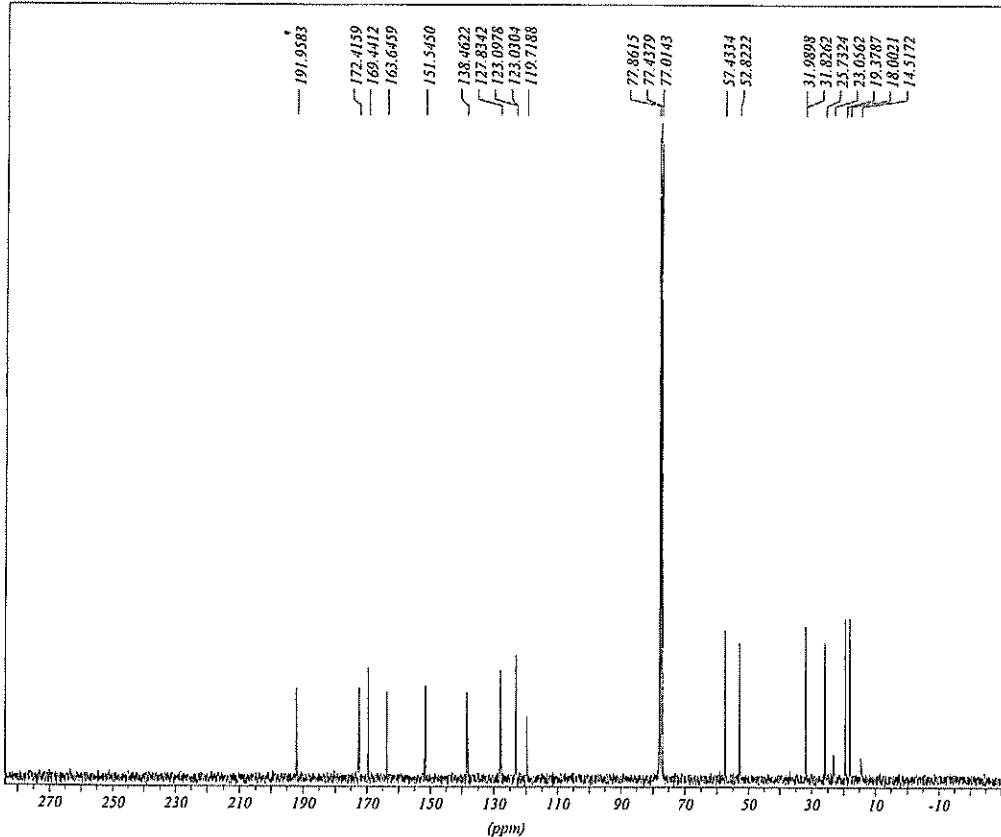
*** Processing Parameters ***

LB : 0.30 Hz
 PC : 1.00
 SF : 300.1700305 MHz
 SI : 16384

*** 1D NMR Plot Parameters ***

SR : 30.46 Hz
 SOLVENT : ?

36



*** Current Data Parameters ***

NAME : 0MFJ40-Y
 EXPNO : 11
 PROCNO : 1

*** Acquisition Parameters ***

DATE_1 : 14-26-48
 DATE_d : Sep 15 2009
 DS : 2
 LOCNUC : 2H
 NS : 1536
 O1 : 9532.38 Hz
 O2 : 1500.85 Hz
 RG : 16384.0000000
 SFO1 : 75.4873094 MHz
 SOLVENT : CDCl3
 SW : 315.4109 ppm
 TD : 65536
 TE : 300.2 K

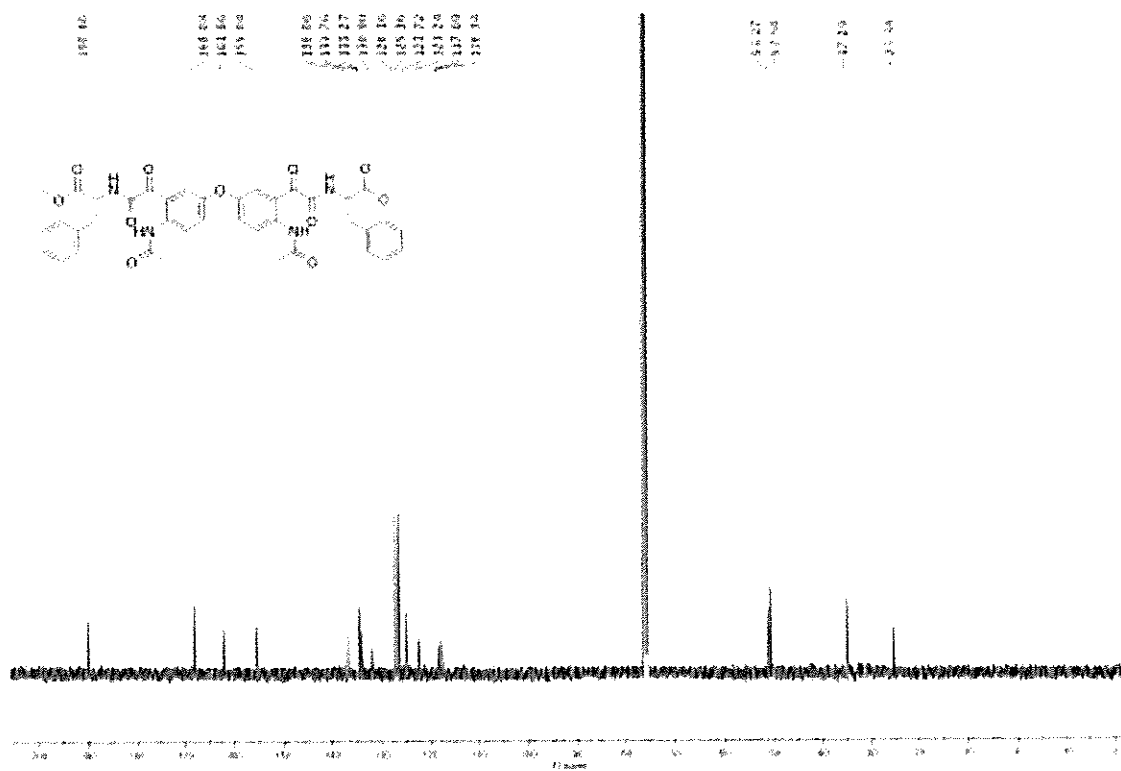
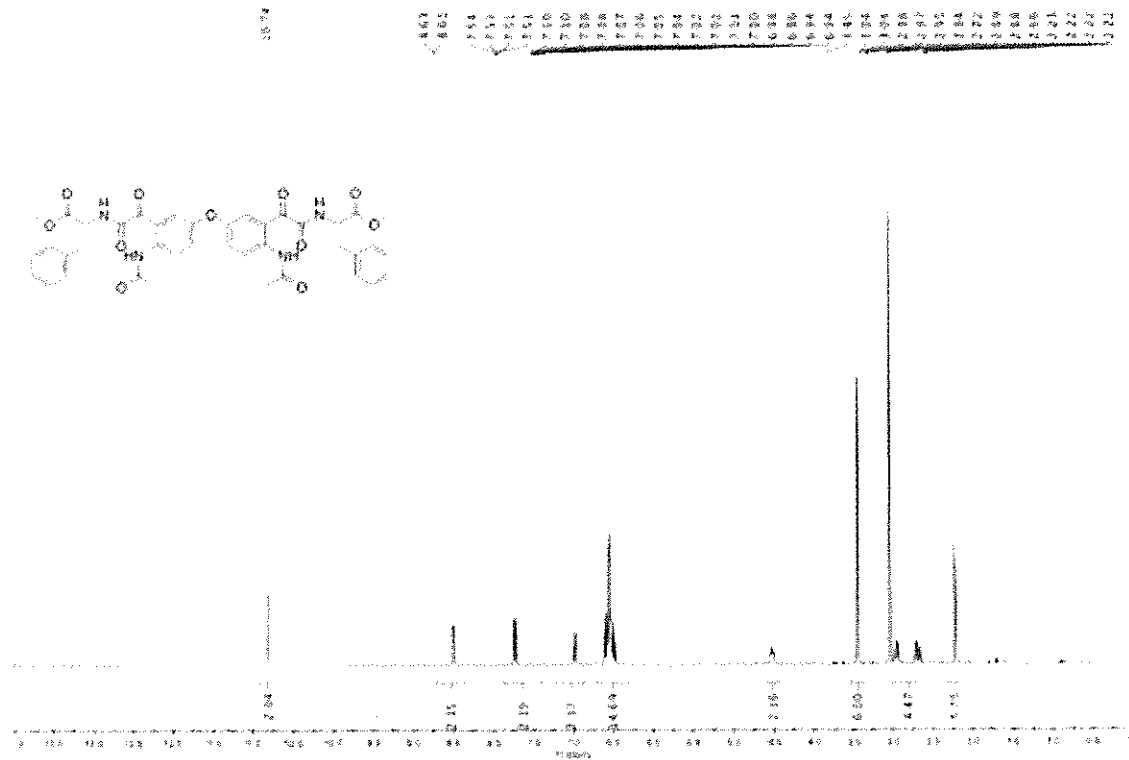
*** Processing Parameters ***

LB : 1.00 Hz
 PC : 1.40
 SF : 75.4777770 MHz
 SI : 32768

*** 1D NMR Plot Parameters ***

SR : -0.00 Hz
 SOLVENT : ?

COMPOUND 32



checkCIF/PLATON report

Structure factors have been supplied for datablock(s) vs3arepro

THIS REPORT IS FOR GUIDANCE ONLY. IF USED AS PART OF A REVIEW PROCEDURE FOR PUBLICATION, IT SHOULD NOT REPLACE THE EXPERTISE OF AN EXPERIENCED CRYSTALLOGRAPHIC REFEREE.

No syntax errors found. CIF dictionary Interpreting this report

Datablock: vs3arepro

Bond precision: C-C = 0.0150 A

Wavelength=0.71073

Cell: a=23.015(5) b=31.326(6) c=4.984(1)
 alpha=90 beta=90 gamma=90
Temperature: 100 K

| | Calculated | Reported |
|------------------------|----------------------------|----------------|
| Volume | 3593.3(13) | 3593.3(12) |
| Space group | P 21 21 2 | P 21 21 2 |
| Hall group | P 2 2ab | P 2 2ab |
| Moiety formula | C35 H42 N4 O10 [+ solvent] | C35 H42 N4 O10 |
| Sum formula | C35 H42 N4 O10 [+ solvent] | C35 H42 N4 O10 |
| Mr | 678.73 | 678.72 |
| Dx, g cm ⁻³ | 1.255 | 1.255 |
| Z | 4 | 4 |
| Mu (mm ⁻¹) | 0.093 | 0.093 |
| F000 | 1440.0 | 1440.0 |
| F000' | 1440.75 | |
| h, k, lmax | 26, 35, 5 | 26, 35, 5 |
| Nref | 5588[3284] | 5471 |
| Tmin, Tmax | 0.999, 0.999 | |
| Tmin' | 0.999 | |

Correction method= Not given

Data completeness= 1.67/0.98 Theta(max)= 23.885

R(reflections)= 0.1380(4913) wR2(reflections)= 0.3602(5471)

S = 1.571

Npar= 446

The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.

Alert level B

THETM01_ALERT_3_B The value of $\sin(\theta_{\max})/\lambda$ is less than 0.575
Calculated $\sin(\theta_{\max})/\lambda = 0.5697$
PLAT084_ALERT_3_B High wR_2 Value (i.e. > 0.25) 0.36 Report

Author Response: Crystals were ultra thin and could be only measured for diffraction at Australian Synchrotron. Even with the synchrotron radiation they diffracted only to lower angles. So, the alerts arising at level B below are due to weak diffraction, disordered L-leu moities and possible presence of partially occupied water molecule in the crystal lattice.

PLAT097_ALERT_2_B Large Reported Max. (Positive) Residual Density 0.81 eA⁻³

Author Response: as explained above

PLAT340_ALERT_3_B Low Bond Precision on C-C Bonds 0.01504 Ang.

Author Response: as explained above

PLAT369_ALERT_2_B Long C(sp²)-C(sp²) Bond C9B - C10B . 1.57 Ang.

Author Response: as explained above

Alert level C

DIFMX02_ALERT_1_C The maximum difference density is $> 0.1 \cdot Z_{\max} \cdot 0.75$
The relevant atom site should be identified.
RINTA01_ALERT_3_C The value of R_{int} is greater than 0.12
 R_{int} given 0.120
STRVA01_ALERT_4_C Flack test results are meaningless.
From the CIF: $_{\text{refine_ls_abs_structure_Flack}}$ 0.300
From the CIF: $_{\text{refine_ls_abs_structure_Flack_su}}$ 0.700
PLAT082_ALERT_2_C High R_1 Value 0.14 Report
PLAT089_ALERT_3_C Poor Data / Parameter Ratio ($Z_{\max} < 18$) 7.23 Note
PLAT213_ALERT_2_C Atom C13B has ADP max/min Ratio 3.3 prolat
PLAT220_ALERT_2_C Non-Solvent Resd 1 C $U_{\text{eq}}(\max)/U_{\text{eq}}(\min)$ Range 5.1 Ratio
PLAT222_ALERT_3_C Non-Solv. Resd 1 H $U_{\text{iso}}(\max)/U_{\text{iso}}(\min)$ Range 6.4 Ratio
PLAT234_ALERT_4_C Large Hirshfeld Difference O3A --C10A . 0.16 Ang.
PLAT234_ALERT_4_C Large Hirshfeld Difference O4A --C12A . 0.17 Ang.
PLAT234_ALERT_4_C Large Hirshfeld Difference C5A --C6A . 0.16 Ang.
PLAT234_ALERT_4_C Large Hirshfeld Difference C11A --C12A . 0.19 Ang.
PLAT241_ALERT_2_C High 'MainMol' U_{eq} as Compared to Neighbors of C7B Check
PLAT241_ALERT_2_C High 'MainMol' U_{eq} as Compared to Neighbors of C14A Check
PLAT242_ALERT_2_C Low 'MainMol' U_{eq} as Compared to Neighbors of O5B Check
PLAT242_ALERT_2_C Low 'MainMol' U_{eq} as Compared to Neighbors of N1B Check
PLAT242_ALERT_2_C Low 'MainMol' U_{eq} as Compared to Neighbors of C7A Check
PLAT242_ALERT_2_C Low 'MainMol' U_{eq} as Compared to Neighbors of C11A Check
PLAT329_ALERT_4_C Carbon Atom Hybridisation Unclear for C14B Check
PLAT369_ALERT_2_C Long C(sp²)-C(sp²) Bond C9A - C10A . 1.53 Ang.

Author Response: as explained above

| | | | |
|-------------------|--|-------|--------|
| PLAT906_ALERT_3_C | Large K Value in the Analysis of Variance | 2.950 | Check |
| PLAT911_ALERT_3_C | Missing FCF Refl Between Thmin & STh/L= 0.570 | 55 | Report |
| PLAT913_ALERT_3_C | Missing # of Very Strong Reflections in FCF | 7 | Note |
| PLAT934_ALERT_3_C | Number of (Iobs-Icalc)/Sigma(W) > 10 Outliers .. | 1 | Check |
| PLAT975_ALERT_2_C | Check Calcd Resid. Dens. 0.90A From O3A | 0.78 | eA-3 |
| PLAT977_ALERT_2_C | Check Negative Difference Density on H15B | -0.31 | eA-3 |
| PLAT978_ALERT_2_C | Number C-C Bonds with Positive Residual Density. | 0 | Info |

● Alert level G

| | | | |
|-------------------|--|-------|--------|
| PLAT002_ALERT_2_G | Number of Distance or Angle Restraints on AtSite | 13 | Note |
| PLAT003_ALERT_2_G | Number of Uiso or Uij Restrained non-H Atoms ... | 4 | Report |
| PLAT007_ALERT_5_G | Number of Unrefined Donor-H Atoms | 4 | Report |
| PLAT032_ALERT_4_G | Std. Uncertainty on Flack Parameter Value High . | 0.700 | Report |
| PLAT072_ALERT_2_G | SHELXL First Parameter in WGHT Unusually Large | 0.20 | Report |
| PLAT171_ALERT_4_G | The CIF-Embedded .res File Contains EADP Records | 9 | Report |
| PLAT172_ALERT_4_G | The CIF-Embedded .res File Contains DFIX Records | 17 | Report |
| PLAT176_ALERT_4_G | The CIF-Embedded .res File Contains SADI Records | 1 | Report |
| PLAT187_ALERT_4_G | The CIF-Embedded .res File Contains RIGU Records | 3 | Report |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C15' Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C15B Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C16' Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C16" Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C16A Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C16B Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C17' Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C17" Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C17A Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C17B Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H14C Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H14D Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H15' Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H15A Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H15B Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H15C Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16A Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16B Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16C Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16D Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16E Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16F Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16G Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16H Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16I Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16J Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16K Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16L Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H17A Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H17B Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H17C Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H17D Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H17E Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H17F Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H17G Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H17H Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H17I Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H17J Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H17K Constrained at | 0.5 | Check |

| | | | | |
|-------------------|--|------------------------------------|-------------|-------------|
| PLAT300_ALERT_4_G | Atom Site Occupancy of H17L | Constrained at | 0.5 | Check |
| PLAT301_ALERT_3_G | Main Residue Disorder | (Resd 1) | 10% | Note |
| PLAT343_ALERT_2_G | Unusual | sp?Angle Range in Main Residue for | C11A | Check |
| PLAT367_ALERT_2_G | Long? | C(sp?)-C(sp?) Bond | C11A - C12A | 1.56 Ang. |
| PLAT367_ALERT_2_G | Long? | C(sp?)-C(sp?) Bond | C11A - C14A | 1.56 Ang. |
| PLAT412_ALERT_2_G | Short Intra XH3 .. | XHn H14B ..H17C | . | 2.09 Ang. |
| | | x,y,z = | 1_555 | Check |
| PLAT413_ALERT_2_G | Short Inter XH3 .. | XHn H14A ..H17K | . | 2.14 Ang. |
| | | x,y,1+z = | 1_556 | Check |
| PLAT432_ALERT_2_G | Short Inter X...Y Contact | O3A ..C12A | | 2.88 Ang. |
| | | x,y,-1+z = | 1_554 | Check |
| PLAT605_ALERT_4_G | Largest Solvent Accessible VOID in the Structure | | 56 | A**3 |
| PLAT720_ALERT_4_G | Number of Unusual/Non-Standard Labels | | 8 | Note |
| PLAT791_ALERT_4_G | Model has Chirality at C11B | (Chiral SPGR) | | R Verify |
| PLAT860_ALERT_3_G | Number of Least-Squares Restraints | | 29 | Note |
| PLAT868_ALERT_4_G | ALERTS Due to the Use of _smtbx_masks Suppressed | | | ! Info |
| PLAT883_ALERT_1_G | No Info/Value for _atom_sites_solution_primary | | | Please Do ! |
| PLAT909_ALERT_3_G | Percentage of I>2sig(I) Data at Theta(Max) Still | | 62% | Note |
| PLAT910_ALERT_3_G | Missing # of FCF Reflection(s) Below Theta(Min). | | 4 | Note |
| PLAT933_ALERT_2_G | Number of OMIT Records in Embedded .res File ... | | 7 | Note |

0 **ALERT level A** = Most likely a serious problem - resolve or explain
5 **ALERT level B** = A potentially serious problem, consider carefully
27 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
65 **ALERT level G** = General information/check it is not something unexpected

2 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
25 ALERT type 2 Indicator that the structure model may be wrong or deficient
14 ALERT type 3 Indicator that the structure quality may be low
55 ALERT type 4 Improvement, methodology, query or suggestion
1 ALERT type 5 Informative message, check

Validation response form

Please find below a validation response form (VRF) that can be filled in and pasted into your CIF.

```
# start Validation Reply Form
_vrf_THETM01_vs3arepro
;
PROBLEM: The value of sine(theta_max)/wavelength is less than 0.575
RESPONSE: ...
;
# end Validation Reply Form
```

It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious problems it may be necessary to carry out additional measurements or structure refinements. However, the purpose of your study may justify the reported deviations and the more serious of these should normally be commented upon in the discussion or experimental section of a paper or in the "special_details" fields of the CIF. checkCIF was carefully designed to identify outliers and unusual parameters, but every test has its limitations and alerts that are not important in a particular case may appear. Conversely, the absence of alerts does not guarantee there are no aspects of the results needing attention. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

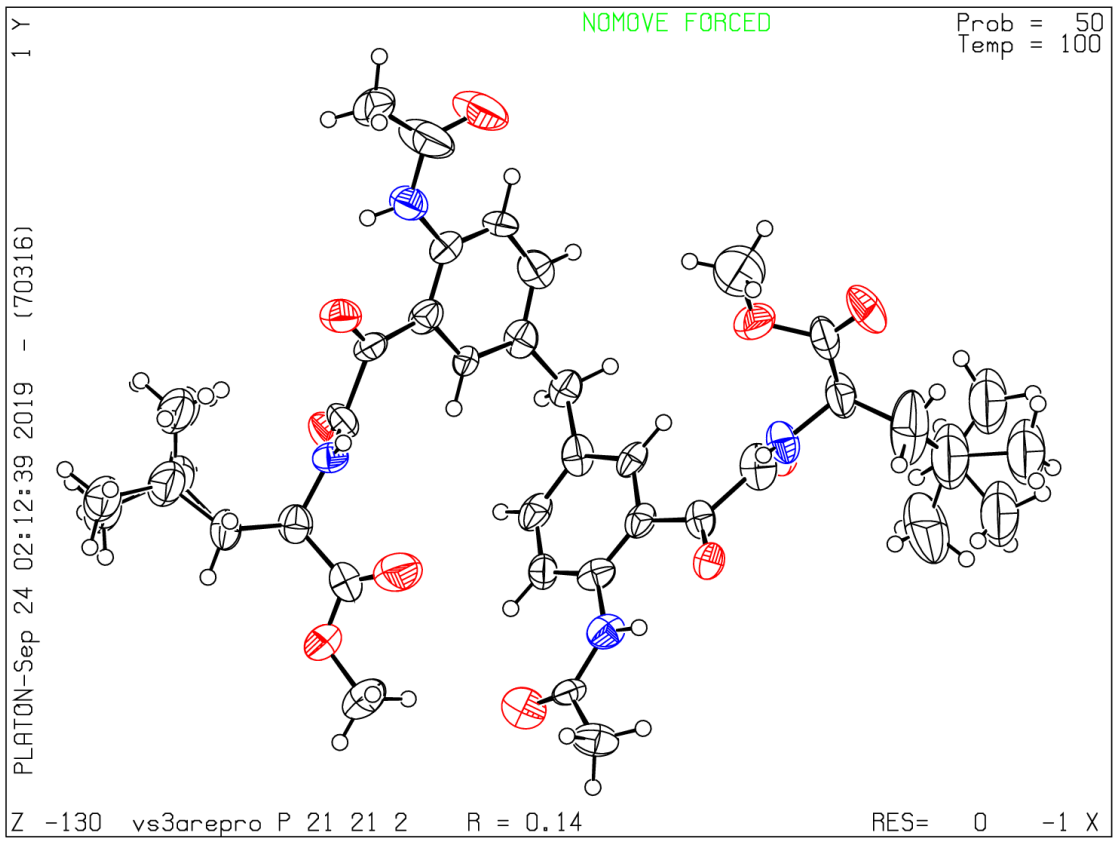
Publication of your CIF in IUCr journals

A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E* or *IUCrData*, you should make sure that full publication checks are run on the final version of your CIF prior to submission.

Publication of your CIF in other journals

Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

PLATON version of 07/08/2019; check.def file version of 30/07/2019



The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.

Alert level B

THETM01_ALERT_3_B The value of $\sin(\theta_{\max})/\lambda$ is less than 0.575
Calculated $\sin(\theta_{\max})/\lambda = 0.5691$

Author Response: Crystals were ultrathin which diffracted very weakly at high angles even in the synchrotron beam at Australian MX1 beam line.

Alert level C

| | | | |
|-------------------|--|---------|--------|
| PLAT089_ALERT_3_C | Poor Data / Parameter Ratio (Zmax < 18) | 6.88 | Note |
| PLAT340_ALERT_3_C | Low Bond Precision on C-C Bonds | 0.00564 | Ang. |
| PLAT369_ALERT_2_C | Long C(sp ²)-C(sp ²) Bond C9A - C10A . | 1.55 | Ang. |
| PLAT369_ALERT_2_C | Long C(sp ²)-C(sp ²) Bond C9B - C10B . | 1.54 | Ang. |
| PLAT911_ALERT_3_C | Missing FCF Refl Between Thmin & STh/L= 0.569 | 10 | Report |
| PLAT913_ALERT_3_C | Missing # of Very Strong Reflections in FCF | 4 | Note |

Alert level G

| | | | |
|-------------------|--|------|--------------|
| PLAT007_ALERT_5_G | Number of Unrefined Donor-H Atoms | 4 | Report |
| PLAT042_ALERT_1_G | Calc. and Reported MoietyFormula Strings Differ | | Please Check |
| PLAT045_ALERT_1_G | Calculated and Reported Z Differ by a Factor ... | 0.50 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H1MA Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H1MB Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H1NA Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H1NB Constrained at | 0.5 | Check |
| PLAT367_ALERT_2_G | Long? C(sp?) - C(sp?) Bond C1M - C4A . | 1.52 | Ang. |
| PLAT367_ALERT_2_G | Long? C(sp?) - C(sp?) Bond C1M - C4A_a . | 1.52 | Ang. |
| PLAT367_ALERT_2_G | Long? C(sp?) - C(sp?) Bond C1N - C4B . | 1.51 | Ang. |
| PLAT367_ALERT_2_G | Long? C(sp?) - C(sp?) Bond C1N - C4B_b . | 1.51 | Ang. |
| PLAT720_ALERT_4_G | Number of Unusual/Non-Standard Labels | 10 | Note |
| PLAT791_ALERT_4_G | Model has Chirality at C11A (Chiral SPGR) | | S Verify |
| PLAT791_ALERT_4_G | Model has Chirality at C11B (Chiral SPGR) | | S Verify |
| PLAT883_ALERT_1_G | No Info/Value for _atom_sites_solution_primary . | | Please Do ! |
| PLAT909_ALERT_3_G | Percentage of I>2sig(I) Data at Theta(Max) Still | 74% | Note |
| PLAT910_ALERT_3_G | Missing # of FCF Reflection(s) Below Theta(Min). | 1 | Note |
| PLAT933_ALERT_2_G | Number of OMIT Records in Embedded .res File ... | 7 | Note |
| PLAT978_ALERT_2_G | Number C-C Bonds with Positive Residual Density. | 4 | Info |

0 **ALERT level A** = Most likely a serious problem - resolve or explain
1 **ALERT level B** = A potentially serious problem, consider carefully
6 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
19 **ALERT level G** = General information/check it is not something unexpected

3 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
8 ALERT type 2 Indicator that the structure model may be wrong or deficient
7 ALERT type 3 Indicator that the structure quality may be low
7 ALERT type 4 Improvement, methodology, query or suggestion
1 ALERT type 5 Informative message, check

It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious problems it may be necessary to carry out additional measurements or structure refinements. However, the purpose of your study may justify the reported deviations and the more serious of these should normally be commented upon in the discussion or experimental section of a paper or in the "special_details" fields of the CIF. checkCIF was carefully designed to identify outliers and unusual parameters, but every test has its limitations and alerts that are not important in a particular case may appear. Conversely, the absence of alerts does not guarantee there are no aspects of the results needing attention. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

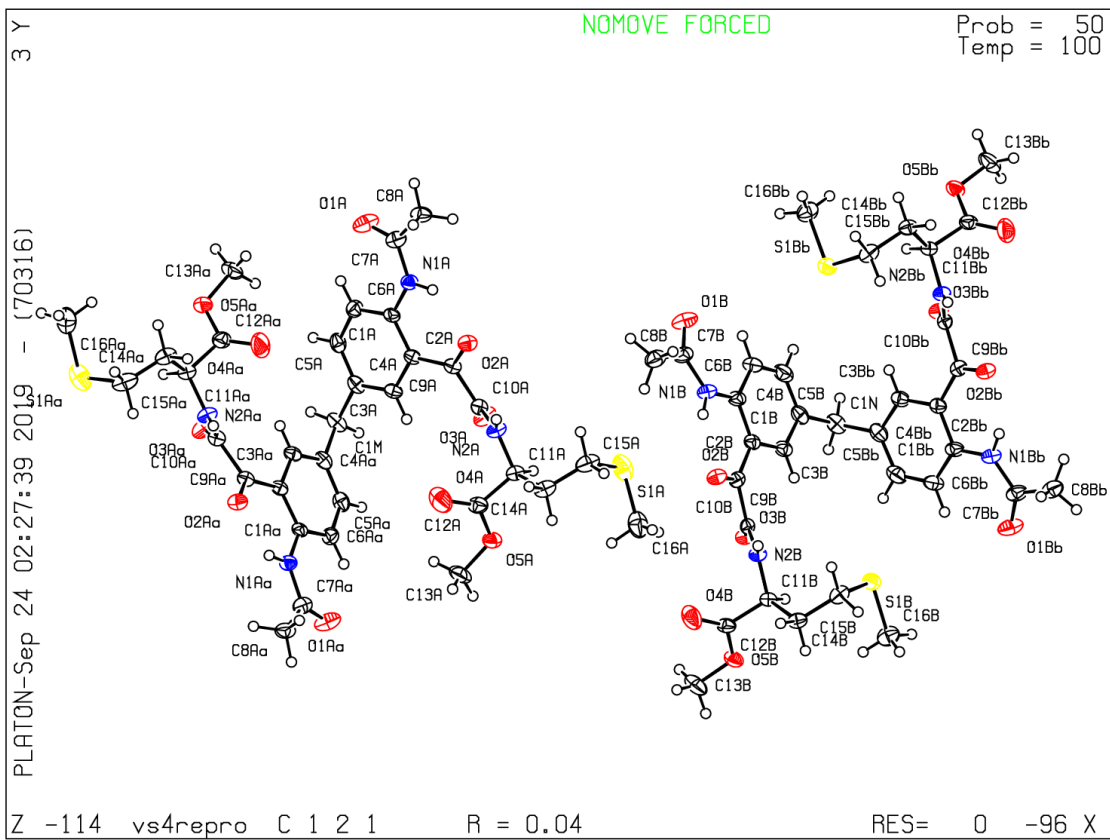
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A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E* or *IUCrData*, you should make sure that full publication checks are run on the final version of your CIF prior to submission.

Publication of your CIF in other journals

Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

PLATON version of 07/08/2019; check.def file version of 30/07/2019



checkCIF/PLATON report

Structure factors have been supplied for datablock(s) vs5repro

THIS REPORT IS FOR GUIDANCE ONLY. IF USED AS PART OF A REVIEW PROCEDURE FOR PUBLICATION, IT SHOULD NOT REPLACE THE EXPERTISE OF AN EXPERIENCED CRYSTALLOGRAPHIC REFEREE.

No syntax errors found. CIF dictionary Interpreting this report

Datablock: vs5repro

| | | | |
|------------------------|--------------------------------|----------------------------------|-------------|
| Bond precision: | C-C = 0.0145 A | Wavelength=0.71073 | |
| Cell: | a=32.369(7) | b=4.869(1) | c=26.474(5) |
| | alpha=90 | beta=127.16(3) | gamma=90 |
| Temperature: | 100 K | | |
| | Calculated | Reported | |
| Volume | 3325.2(18) | 3325.3(16) | |
| Space group | C 2 | C 1 2 1 | |
| Hall group | C 2y | C 2y | |
| Moiety formula | C33 H34 N4 O10, C33 H38 N4 O10 | C16.5 H19 N2 O5, C16.5 H17 N2 O5 | |
| Sum formula | C66 H72 N8 O20 | C33 H36 N4 O10 | |
| Mr | 1297.32 | 648.66 | |
| Dx, g cm ⁻³ | 1.296 | 1.296 | |
| Z | 2 | 4 | |
| Mu (mm ⁻¹) | 0.097 | 0.097 | |
| F000 | 1368.0 | 1368.0 | |
| F000' | 1368.73 | | |
| h, k, lmax | 36, 5, 30 | 36, 5, 30 | |
| Nref | 5143[2919] | 4904 | |
| Tmin, Tmax | 0.998, 0.999 | | |
| Tmin' | 0.998 | | |

Correction method= Not given

Data completeness= 1.68/0.95 Theta(max)= 23.836

R(reflections)= 0.1237(4712) wR2(reflections)= 0.3870(4904)

S = 2.026

Npar= 384

The following ALERTS were generated. Each ALERT has the format
test-name_ALERT_alert-type_alert-level.
Click on the hyperlinks for more details of the test.

Alert level B

DIFMN02_ALERT_2_B The minimum difference density is $< -0.1 \cdot Z_{MAX} \cdot 1.00$
_refine_diff_density_min given = -1.141
Test value = -0.800

THETM01_ALERT_3_B The value of $\sin(\theta_{max})/\lambda$ is less than 0.575
Calculated $\sin(\theta_{max})/\lambda = 0.5686$

Author Response: All the crystals were ultrathin and could only be measured at Australian synchrotron. Crystals diffracted only to lower values of theta.

PLAT029_ALERT_3_B _diffn_measured_fraction_theta_full value Low . 0.955 Why?

Author Response: same as above

PLAT084_ALERT_3_B High wR2 Value (i.e. > 0.25) 0.39 Report

Author Response: As a result of weak diffraction with asymmetric unit containing two molecules with disorders reflecting in higher values of wR2. One of the molecules takes two orientations which are very slightly displaced from each other. The limitation of data (not much of high angle data) and as a result inadequate modelling of disorder resulted in residual densities, low bond precisions and also inability to refine this molecule anisotropically.

PLAT097_ALERT_2_B Large Reported Max. (Positive) Residual Density 0.96 eA-3

Author Response: reasons as given above.

PLAT098_ALERT_2_B Large Reported Min. (Negative) Residual Density -1.14 eA-3

Author Response: reasons as given above

PLAT201_ALERT_2_B Isotropic non-H Atoms in Main Residue(s) 4 Report
C1N C11B C13B C14B

Author Response: reasons as given above

PLAT340_ALERT_3_B Low Bond Precision on C-C Bonds 0.0145 Ang.

Author Response: reasons as given above

PLAT430_ALERT_2_B Short Inter D...A Contact O3A ..N2A . 2.73 Ang.
x,1+y,z = 1_565 Check

PLAT934_ALERT_3_B Number of (Iobs-Icalc)/Sigma(W) > 10 Outliers .. 2 Check

● Alert level C

DIFMN03_ALERT_1_C The minimum difference density is $< -0.1 * ZMAX * 0.75$
The relevant atom site should be identified.

DIFMX02_ALERT_1_C The maximum difference density is $> 0.1 * ZMAX * 0.75$
The relevant atom site should be identified.

GOODF01_ALERT_2_C The least squares goodness of fit parameter lies
outside the range 0.80 $<>$ 2.00
Goodness of fit given = 2.026

STRVA01_ALERT_2_C Chirality of atom sites is inverted?
From the CIF: `_refine_ls_abs_structure_Flack` 0.900
From the CIF: `_refine_ls_abs_structure_Flack_su` 0.300

PLAT082_ALERT_2_C High R1 Value 0.12 Report

PLAT087_ALERT_2_C Unsatisfactory S value (Too High) 2.03 Check

PLAT089_ALERT_3_C Poor Data / Parameter Ratio (Zmax < 18) 7.26 Note

PLAT220_ALERT_2_C Non-Solvent Resd 1 C Ueq(max)/Ueq(min) Range 4.6 Ratio

PLAT220_ALERT_2_C Non-Solvent Resd 1 O Ueq(max)/Ueq(min) Range 3.4 Ratio

PLAT222_ALERT_3_C Non-Solv. Resd 1 H Uiso(max)/Uiso(min) Range 4.4 Ratio

PLAT234_ALERT_4_C Large Hirshfeld Difference O5A' --C12A . 0.17 Ang.

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of C1N Check

PLAT241_ALERT_2_C High 'MainMol' Ueq as Compared to Neighbors of C11B Check

PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of C11A Check

PLAT309_ALERT_2_C Single Bonded Oxygen (C-O > 1.3 Ang) 04" Check

PLAT309_ALERT_2_C Single Bonded Oxygen (C-O > 1.3 Ang) 02AA Check

PLAT329_ALERT_4_C Carbon Atom Hybridisation Unclear for C13B Check

PLAT369_ALERT_2_C Long C(sp2)-C(sp2) Bond C9A - C10A . 1.54 Ang.

PLAT790_ALERT_4_C Centre of Gravity not Within Unit Cell: Resd. # 1 Note
C33 H34 N4 O10

PLAT907_ALERT_2_C Flack x > 0.5, Structure Needs to be Inverted? . 0.90 Check

PLAT911_ALERT_3_C Missing FCF Refl Between Thmin & STh/L= 0.569 131 Report

PLAT913_ALERT_3_C Missing # of Very Strong Reflections in FCF 34 Note

PLAT918_ALERT_3_C Reflection(s) with I(obs) much Smaller I(calc) . 5 Check

PLAT939_ALERT_3_C Large Value of Not (SHELXL) Weight Optimized S . 13.02 Check

● Alert level G

PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite 10 Note

PLAT007_ALERT_5_G Number of Unrefined Donor-H Atoms 3 Report

PLAT032_ALERT_4_G Std. Uncertainty on Flack Parameter Value High . 0.300 Report

PLAT042_ALERT_1_G Calc. and Reported MoietyFormula Strings Differ Please Check

PLAT045_ALERT_1_G Calculated and Reported Z Differ by a Factor ... 0.50 Check

PLAT072_ALERT_2_G SHELXL First Parameter in WGHT Unusually Large 0.20 Report

PLAT152_ALERT_1_G The Supplied and Calc. Volume s.u. Differ by ... 2 Units

PLAT171_ALERT_4_G The CIF-Embedded .res File Contains EADP Records 12 Report

PLAT172_ALERT_4_G The CIF-Embedded .res File Contains DFIX Records 1 Report

PLAT176_ALERT_4_G The CIF-Embedded .res File Contains SADI Records 5 Report

PLAT300_ALERT_4_G Atom Site Occupancy of O1" Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of O2" Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of O3" Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of O0AA Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of O4" Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of O1AA Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of O4B Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of O5" Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of O2AA Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of O5B Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of N1" Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of N0AA Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of N2" Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of N2B Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of C1" Constrained at 0.5 Check

PLAT300_ALERT_4_G Atom Site Occupancy of C1B Constrained at 0.5 Check

| | | | | |
|-------------------|--|----------------|-------|--------|
| PLAT300_ALERT_4_G | Atom Site Occupancy of C8 | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C13A | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C15' | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C15A | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C16' | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of C16A | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H1MA | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H1MB | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H18A | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H8B | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H8C | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H13D | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H13E | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H13F | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H14A | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H14B | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H15G | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H15H | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H15I | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H15J | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H15K | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H15L | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16G | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16H | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16I | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16J | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16K | Constrained at | 0.5 | Check |
| PLAT300_ALERT_4_G | Atom Site Occupancy of H16L | Constrained at | 0.5 | Check |
| PLAT301_ALERT_3_G | Main Residue Disorder(Resd 1) | | 85% | Note |
| PLAT301_ALERT_3_G | Main Residue Disorder(Resd 2) | | 21% | Note |
| PLAT309_ALERT_2_G | Single Bonded Oxygen (C-O > 1.3 Ang) | | 02" | Check |
| PLAT367_ALERT_2_G | Long? C(sp?)-C(sp?) Bond C11B - C14B . | | 1.53 | Ang. |
| PLAT367_ALERT_2_G | Long? C(sp?)-C(sp?) Bond C1M - C4A . | | 1.51 | Ang. |
| PLAT367_ALERT_2_G | Long? C(sp?)-C(sp?) Bond C1M - C4A_b . | | 1.51 | Ang. |
| PLAT398_ALERT_2_G | Deviating C-O-C Angle From 120 for O5" | | 108.1 | Degree |
| PLAT398_ALERT_2_G | Deviating C-O-C Angle From 120 for O5B | | 101.3 | Degree |
| PLAT720_ALERT_4_G | Number of Unusual/Non-Standard Labels | | 22 | Note |
| PLAT773_ALERT_2_G | Check long C-C Bond in CIF: C11B --C12B | | 1.74 | Ang. |
| PLAT779_ALERT_4_G | Suspect or Irrelevant (Bond) Angle(s) in CIF . # | | 43 | Check |
| | C4B -C1N -C4" 2.453 1.555 2.453 | | 27.50 | Deg. |
| PLAT790_ALERT_4_G | Centre of Gravity not Within Unit Cell: Resd. # | | 2 | Note |
| | C33 H38 N4 O10 | | | |
| PLAT811_ALERT_5_G | No ADDSYM Analysis: Too Many Excluded Atoms | | ! | Info |
| PLAT860_ALERT_3_G | Number of Least-Squares Restraints | | 4 | Note |
| PLAT909_ALERT_3_G | Percentage of I>2sig(I) Data at Theta(Max) Still | | 90% | Note |
| PLAT978_ALERT_2_G | Number C-C Bonds with Positive Residual Density. | | 2 | Info |

0 **ALERT level A** = Most likely a serious problem - resolve or explain
10 **ALERT level B** = A potentially serious problem, consider carefully
24 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
132 **ALERT level G** = General information/check it is not something unexpected

5 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
28 ALERT type 2 Indicator that the structure model may be wrong or deficient
15 ALERT type 3 Indicator that the structure quality may be low
116 ALERT type 4 Improvement, methodology, query or suggestion
2 ALERT type 5 Informative message, check

Validation response form

Please find below a validation response form (VRF) that can be filled in and pasted into your CIF.

```
# start Validation Reply Form
_vrf_DIFMN02_vs5repro
;
PROBLEM: The minimum difference density is < -0.1*ZMAX*1.00
RESPONSE: ...
;
_vrf_PLAT430_vs5repro
;
PROBLEM: Short Inter D...A Contact  O3A      ..N2A      .      2.73 Ang.
RESPONSE: ...
;
_vrf_PLAT934_vs5repro
;
PROBLEM: Number of (Iobs-Icalc)/Sigma(W) > 10 Outliers ..      2 Check
RESPONSE: ...
;
# end Validation Reply Form
```

It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious problems it may be necessary to carry out additional measurements or structure refinements. However, the purpose of your study may justify the reported deviations and the more serious of these should normally be commented upon in the discussion or experimental section of a paper or in the "special_details" fields of the CIF. checkCIF was carefully designed to identify outliers and unusual parameters, but every test has its limitations and alerts that are not important in a particular case may appear. Conversely, the absence of alerts does not guarantee there are no aspects of the results needing attention. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

Publication of your CIF in IUCr journals

A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E* or *IUCrData*, you should make sure that full publication checks are run on the final version of your CIF prior to submission.

Publication of your CIF in other journals

Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

PLATON version of 07/08/2019; check.def file version of 30/07/2019

