

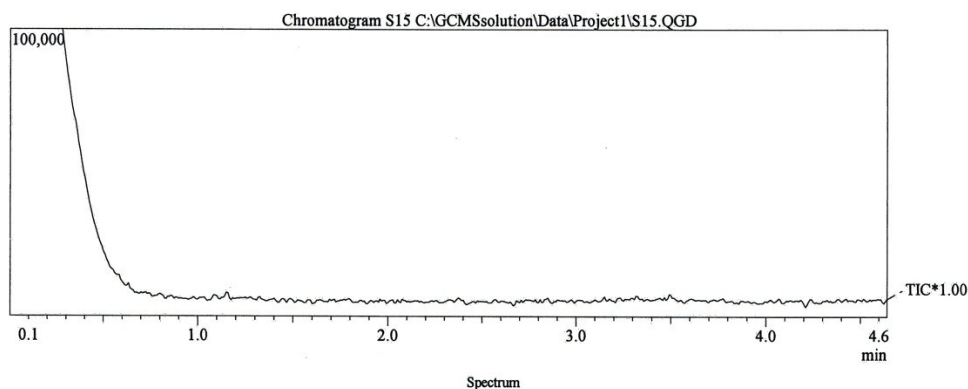
11-Dec-12 12:42:54

**Cairo University
Micro Analytical Center**

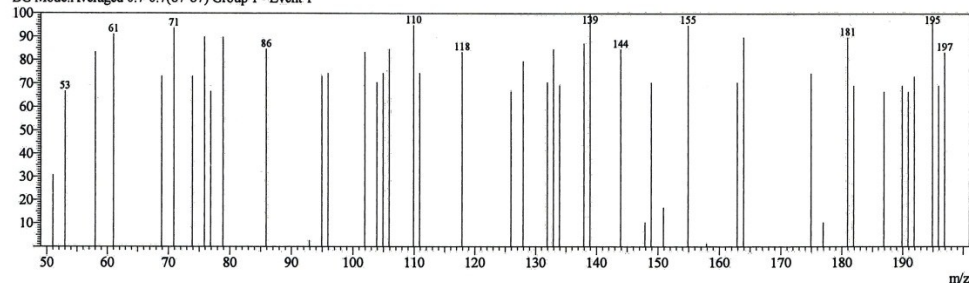
**DI Analysis
Shimadzu Qp-2010 Plus**

Sample Information		Method
Analyzed by	: A.GABR	— Analytical Line 1 —
Analyzed	: 11/12/2012 12:35:01 م	IonSourceTemp : 220.00 °C
Sample Name	: S15	[MS Table]
Sample ID	:	—Group 1 - Event 1—
Customer Name	: محمد عبد السلام علوم المنصورة	Start Time : 0.00min
Data File	: C:\GCMSSolution\Data\Project1\S15.QGD	End Time : 10.00min
Org Data File	: C:\GCMSSolution\Data\Project1\S15.QGD	ACQ Mode : Scan
Method File	: C:\GCMSSolution\Data\Project1\R.Said.qgm	Event Time : 0.50sec
Org Method File	: C:\GCMSSolution\Data\Project1\R.Said.qgm	Scan Speed : 526
Report File	:	Start m/z : 50.00
Tuning File	: C:\GCMSSolution\System\Tune1_default1.qgt	End m/z : 300.00
\$EndIf\$Modified by	: A.GABR	Electron Voltage : 70 eV
Modified	: 11/12/2012 12:39:45 م	Ionization Mode : EI

C:\GCMSSolution\Data\Project1\S15.QGD



Line#:1 R.Time:0.8(Scan#:97)
MassPeaks:47
RawMode:Single 0.8(97) BasePeak:139(78)
BG Mode:Averaged 0.7-0.7(87-87) Group 1 - Event 1

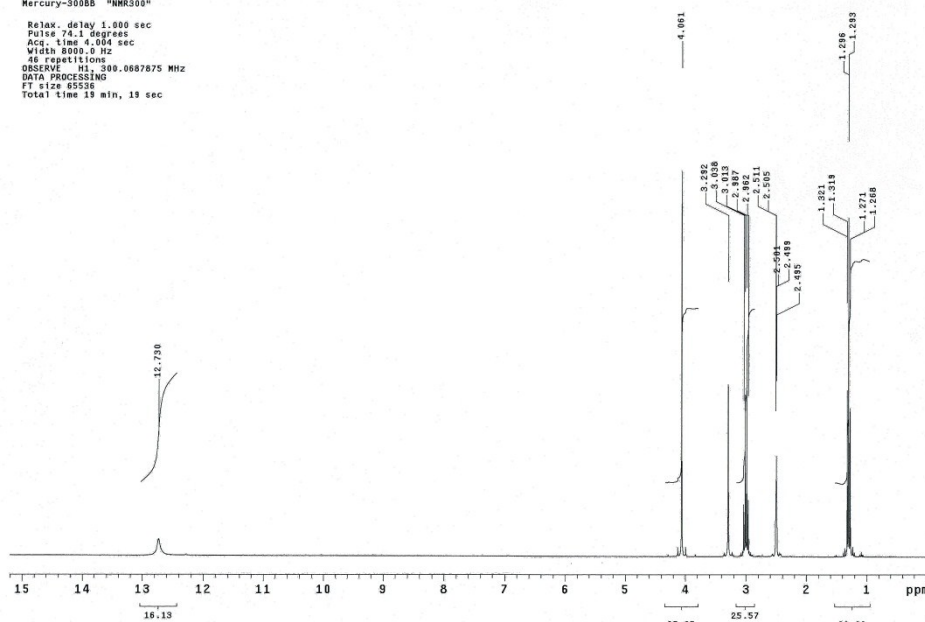


Mass Table
Line#:1 R.Time:0.8(Scan#:97)
MassPeaks:47
RawMode:Single 0.8(97) BasePeak:139(78)
BG Mode:Averaged 0.7-0.7(87-87) Group 1 - Event 1

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
1	51.00	24	30.77	4	61.00	71	91.03	7	73.90	57	73.08
2	53.00	52	66.67	5	68.90	57	73.08	8	75.90	70	89.74
3	58.00	65	83.33	6	70.90	73	93.59	9	76.90	52	66.67

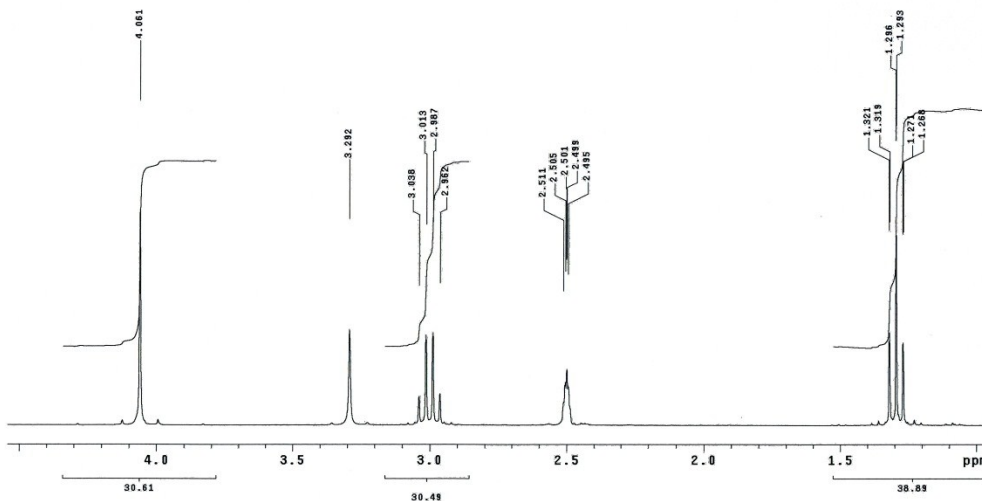


MohammadAbdelSalam-S15-DMSO-1H
Pulse Sequence: s2pu1
Solvent: DMSO
Temp: 30.0 C / 303.1 K
Mercury-300DB "NMR300"
Relax. delay 1.000 sec
Pulse 74.1 degrees
Acq. time 4.004 sec
Width 6000.0 Hz
46 repetitions
OBSERVE H1 300.0687875 MHz
DATA PROCESSING
FT size 65536
Total time 19 min, 19 sec



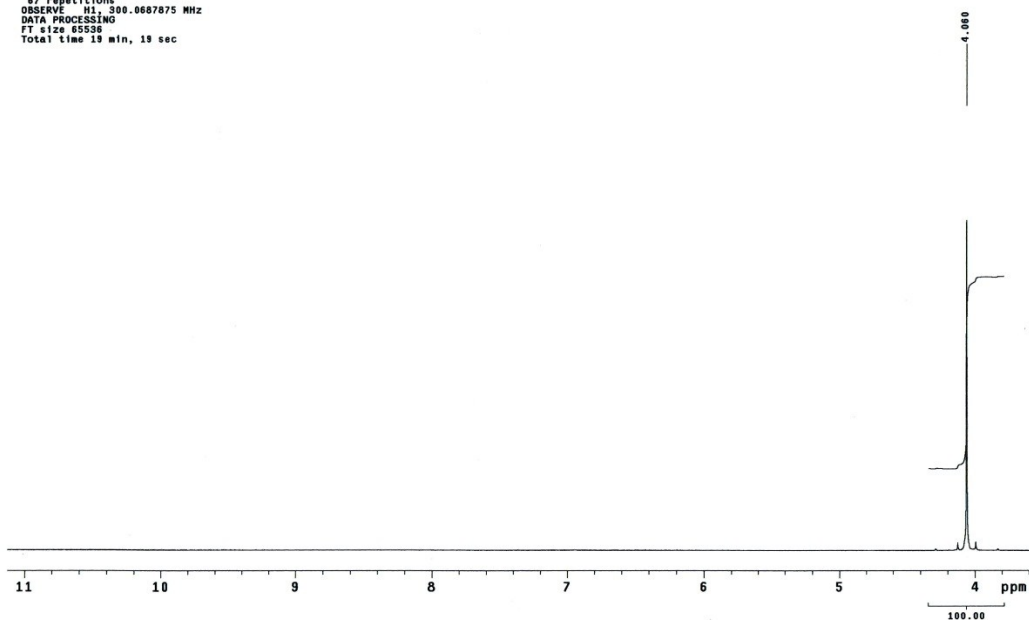
^1H NMR of 1

MohammadAbdelSalam-S15-DMSO-1H
Pulse Sequence: s2pu1
Solvent: DMSO
Temp: 30.0 C / 303.1 K
Mercury-300DB "NMR300"
Relax. delay 1.000 sec
Pulse 74.1 degrees
Acq. time 4.004 sec
Width 6000.0 Hz
53 repetitions
OBSERVE H1 300.0687875 MHz
DATA PROCESSING
FT size 65536
Total time 19 min, 19 sec



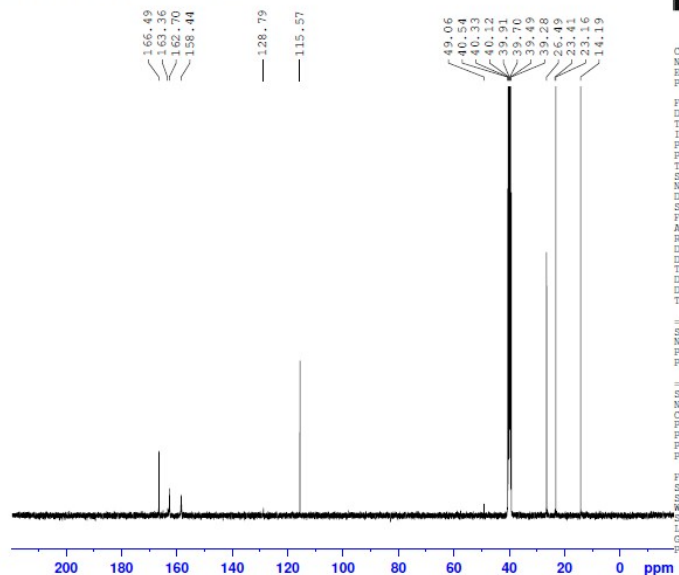
Expanded ^1H NMR of 1

MohammadAbdelSalam-S15-DMSO-1H
Pulse Sequence: s2pu1
Solvent: DMSO
Temp: 30.0 C / 303.1 K
Mercury-300BB "NMR300"
Relax. delay 1.000 sec
Pulse 74.1 degrees
Acq. time 4.004 sec
Width 8000.0 Hz
67 repetitions
OBSERVE H1 300.0687875 MHz
DATA PROCESSING
FT size 65536
Total time 19 min, 19 sec



Expanded ^1H NMR of 1

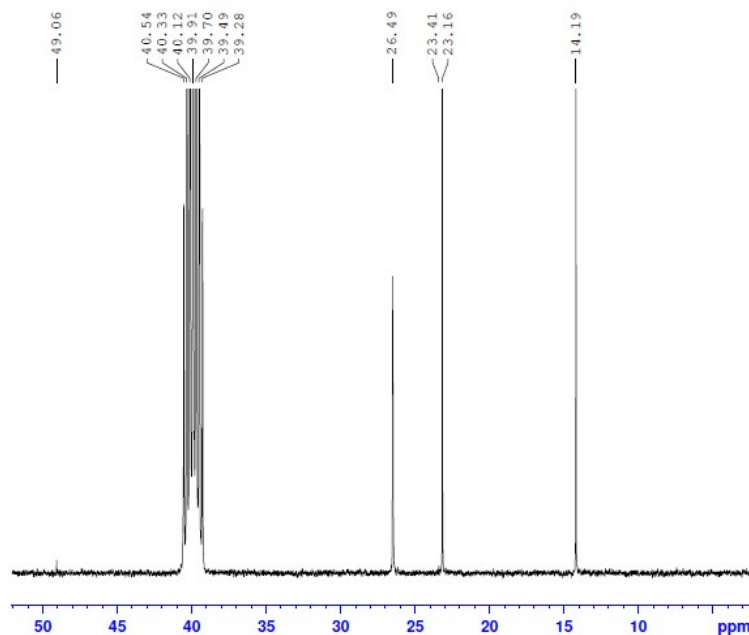
M.ABDELSAM-1
C13-BSU DMSO (C:\data) nmr 6



Current Data Parameters
NAME May08-2016-nmr
EXPNO 261
PROCNO 1
F2 - Acquisition Parameters
Date_ 20160508
Time 12.36
INSTRUM spect
PROBHD 5 mm PARBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 4000
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631688 sec
RG 205.44
DM 20.800 usec
DE 6.50 usec
TE 297.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1
===== CHANNEL f1 =====
SFO1 100.6228293 MHz
NUC1 13C
P1 10.00 usec
PLW1 66.00000000 W
===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
CPCPRG2 waltz16
PCPD2 90.00 usec
PLW2 16.00000000 W
PLW12 0.21777999 W
PLW13 0.17640001 W
F2 - Processing parameters
SI 131072
SF 100.6127650 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

^{13}C NMR OF 1

M.ABDELSAM-1
C13-BSU DMSO (C:\data) nmr 6



Current Data Parameters
NAME May08-2016-nmr
EXPNO 261
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160508
Time 12.36
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 4000
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 205.44
DW 20.800 usec
DE 6.50 usec
TE 297.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

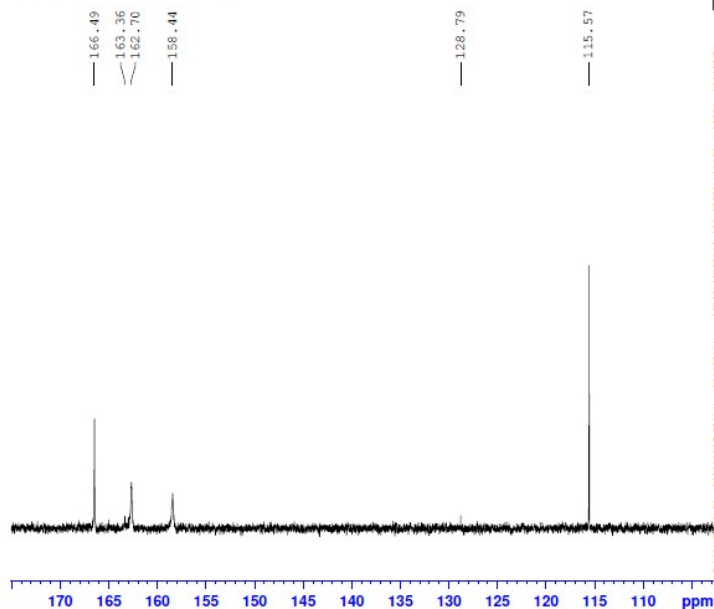
===== CHANNEL f1 =====
SFO1 100.6228293 MHz
NUC1 13C
P1 10.00 usec
PLW1 66.00000000 W

===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 16.00000000 W
PLW12 0.21777999 W
PLW13 0.17640001 W

F2 - Processing parameters
SI 131072
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Expanded ^{13}C NMR OF 1

M.ABDELSAM-1
C13-BSU DMSO (C:\data) nmr 6



Current Data Parameters
NAME May08-2016-nmr
EXPNO 261
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160508
Time 12.36
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 4000
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 205.44
DW 20.800 usec
DE 6.50 usec
TE 297.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

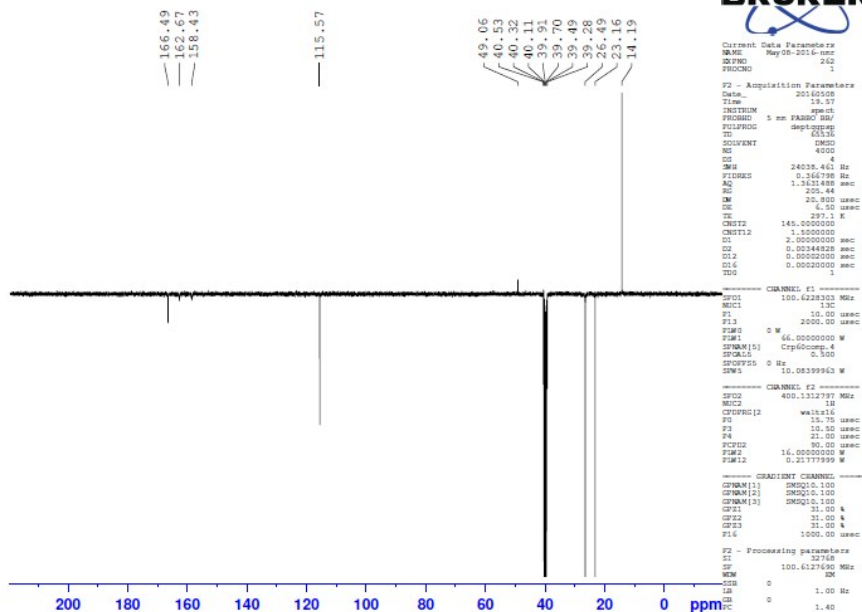
===== CHANNEL f1 =====
SFO1 100.6228293 MHz
NUC1 13C
P1 10.00 usec
PLW1 66.00000000 W

===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 16.00000000 W
PLW12 0.21777999 W
PLW13 0.17640001 W

F2 - Processing parameters
SI 131072
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

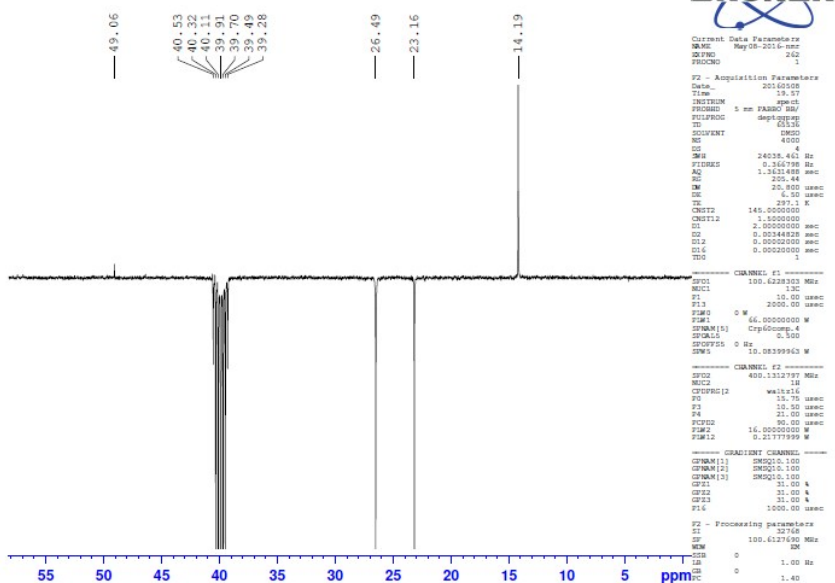
Expanded ^{13}C NMR OF 1

M.ABDELSAM-1
DEPTQ-BSU DMSO (C:\data) nmr 6



DEPT ^{13}C NMR OF 1

M.ABDELSAM-1
DEPTQ-BSU DMSO (C:\data) nmr 6



Expanded DEPT ^{13}C NMR OF 1

M.ABELSAM-1
DEPTQ-BSU DMSO (C:\data) nmr 6



Current Data Parameters
NAME May08-2016-nmr
EXPNO 262
PROCNO 1

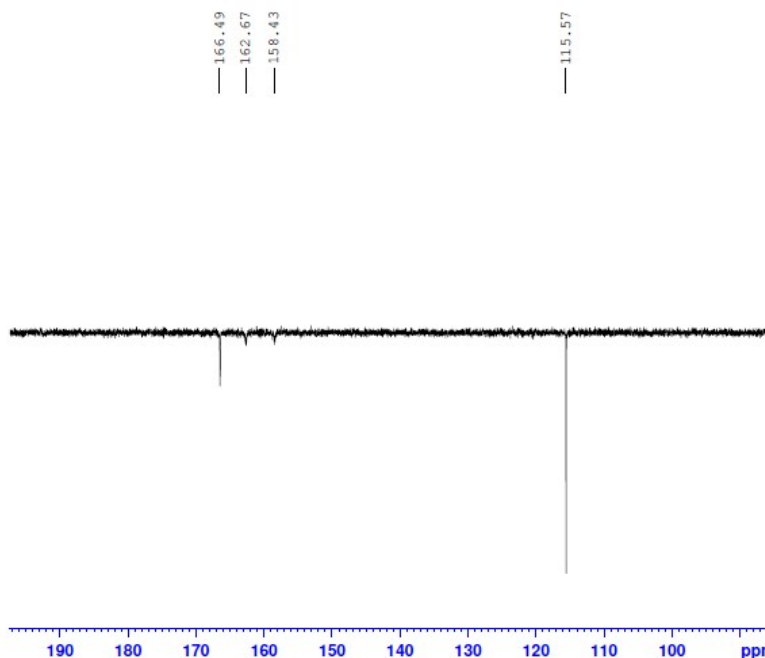
F2 - Acquisition Parameters
Date_ 20160508
Time 19.57
INSTRUM spect
PROBHD 5 mm PABBO MM
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 4000
DS 4
SWH 24035.461 Hz
FIDRES 0.366798 Hz
AQ 1.3611488 sec
RG 205.44
DM 20.800 usec
DE 6.50 usec
TE 297.1 K
CHST2 145.0000000
CHST12 1.5000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
D16 0.00002000 sec
TD0 1

===== CHANNEL F1 =====
SFO1 100.628303 MHz
NUC1 13C
P1 10.00 usec
PL1 0 W
P13 2000.00 usec
PL13 0 W
FWD1 66.00000000 W
SFO1(1) Cpl600000.4
SFO1(5) 0.500
SFO1(25) 0 Hz
SWS 10.08399962 W

===== CHANNEL F2 =====
SFO2 400.1312797 MHz
NUC2 1H
CFREQ2 waix16
P2 15.75 usec
PL2 10.50 usec
P3 21.00 usec
PL3 90.00 usec
FWD2 16.00000000 W
FWD12 0.21777999 W

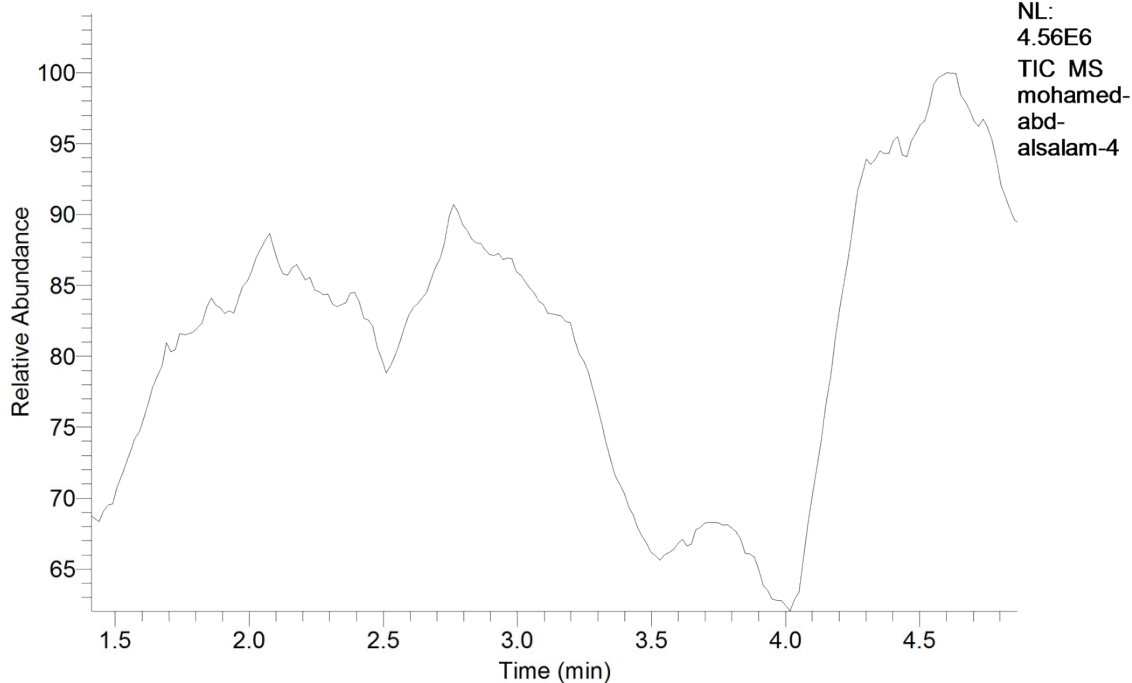
===== GRADIENT CHANNEL =====
GPMAN(1) SMSQ10.100
GPMAN(2) SMSQ10.100
GPMAN(3) SMSQ10.100
GFE1 31.00 %
GFE2 31.00 %
GFE3 31.00 %
PL6 1000.00 usec

F2 - Processing Parameters
SI 32768
SF 100.6127500 MHz
WDW 0
SSB 0 1.00 Hz
GB 0
PC 1.40

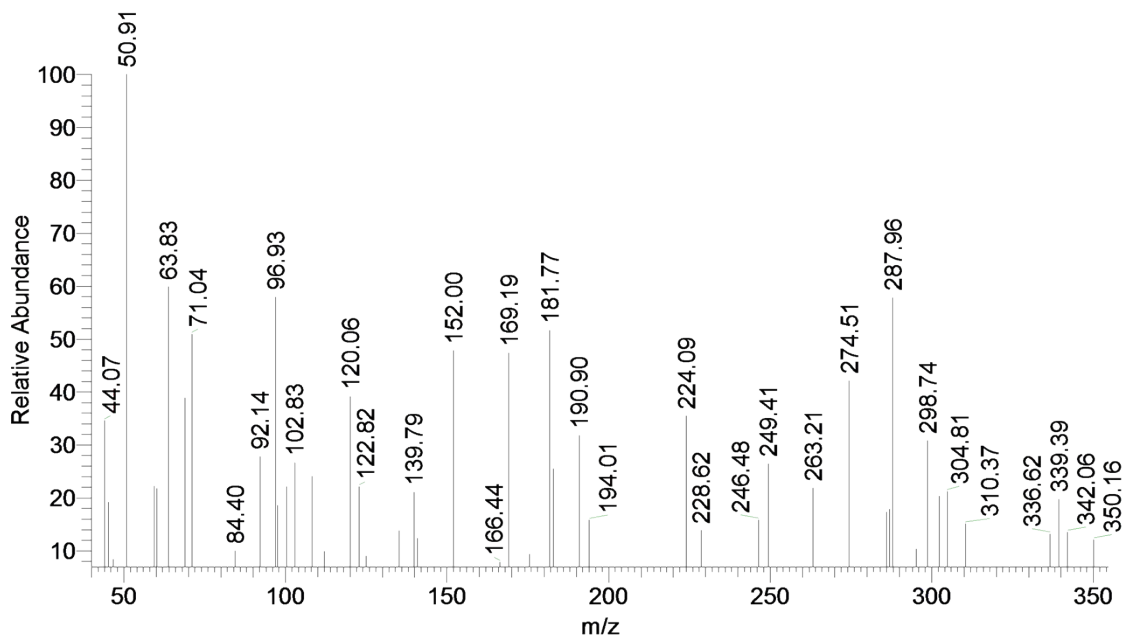


Expanded ^{13}C NMR OF 1

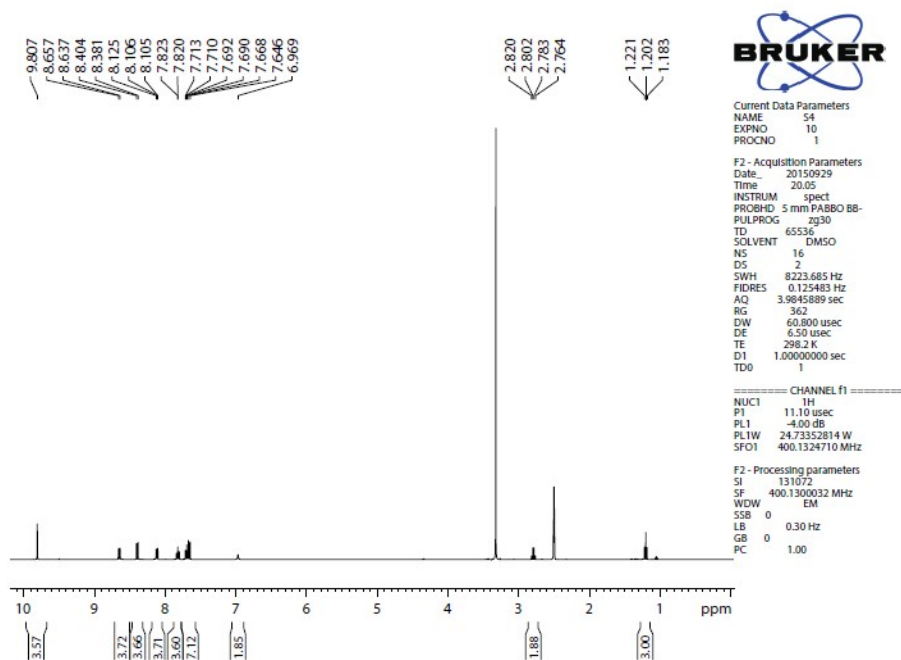
RT: 1.41 - 4.86 SM: 15B



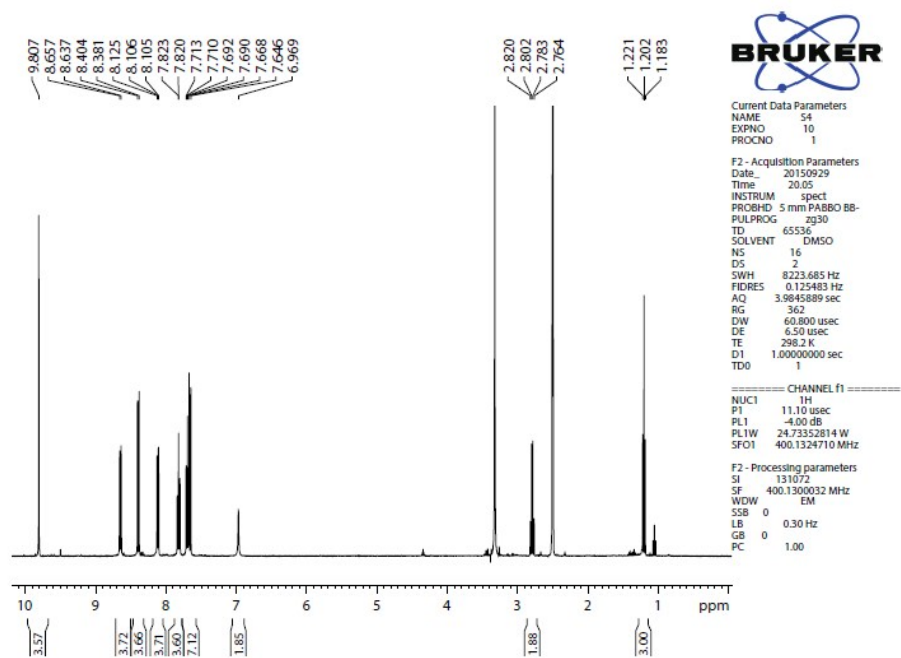
mohamed-abd-alsalam-4 #155 RT: 2.61 AV: 1 SB: 6 2.73-2.80 , 2.88 NL: 5.05E2
T: {0,0} + c EI Full ms [40.00-1000.00]



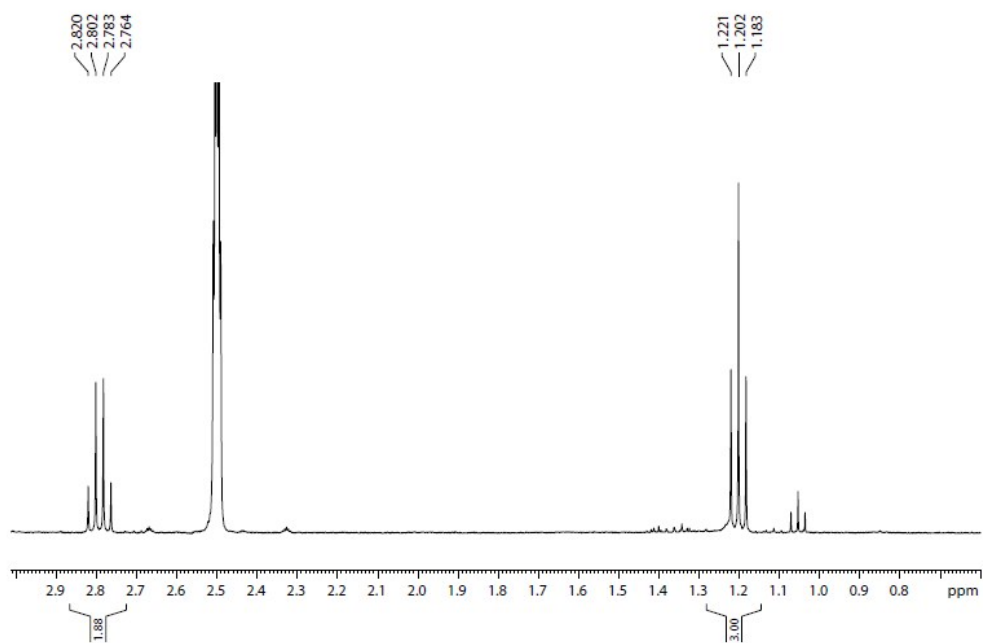
Mass spectrum of 2



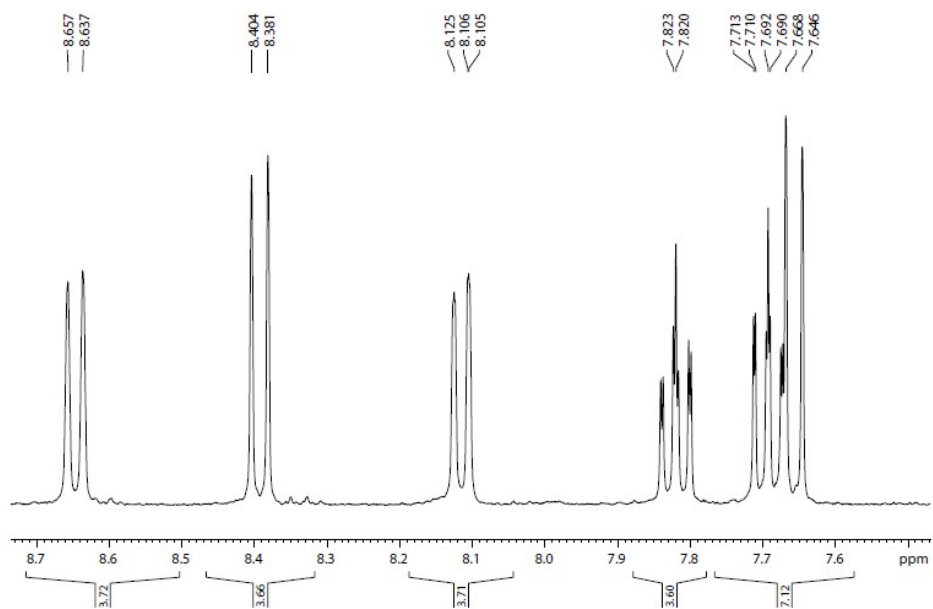
¹H NMR OF 2



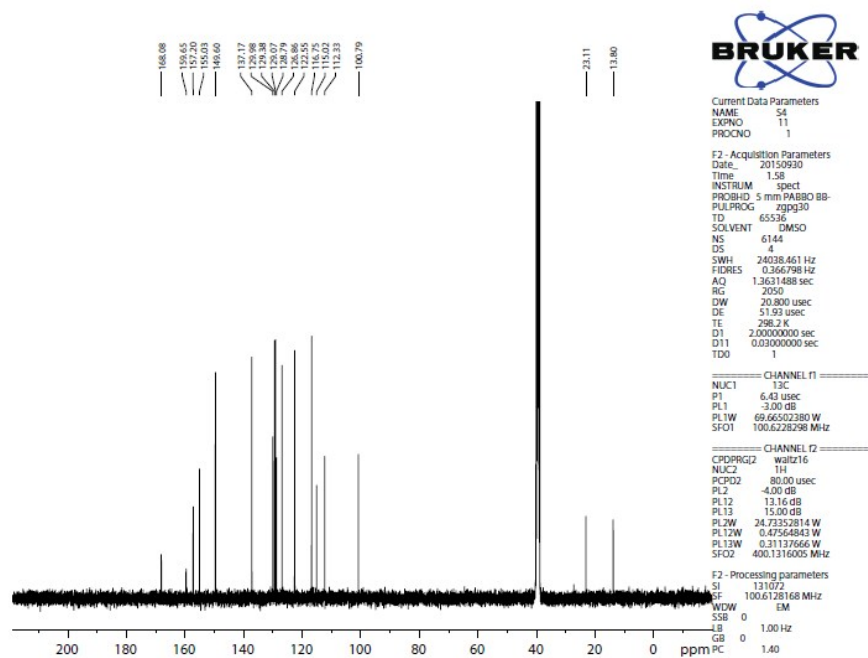
¹H NMR OF 2



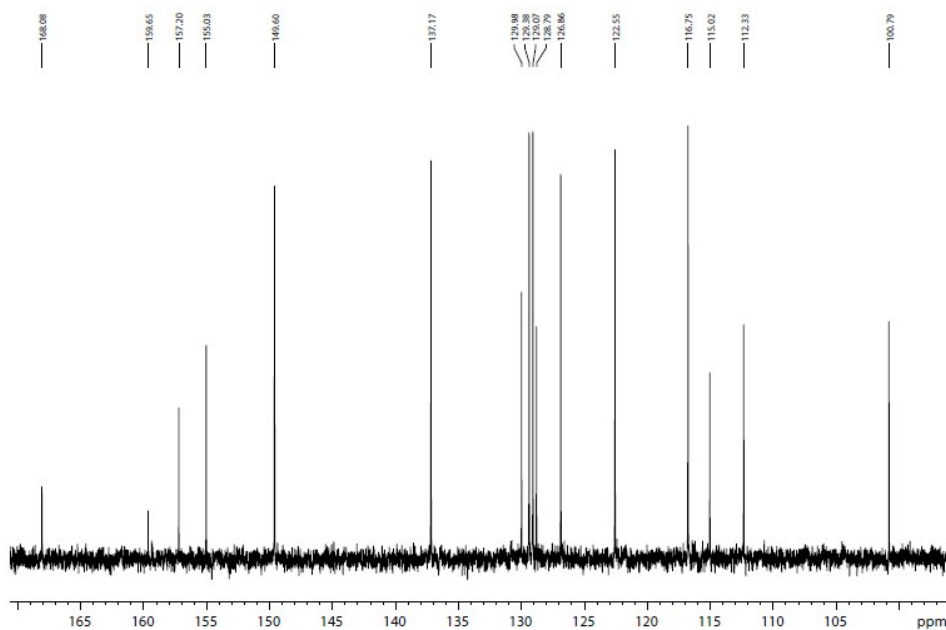
Expanded ¹H NMR OF 2



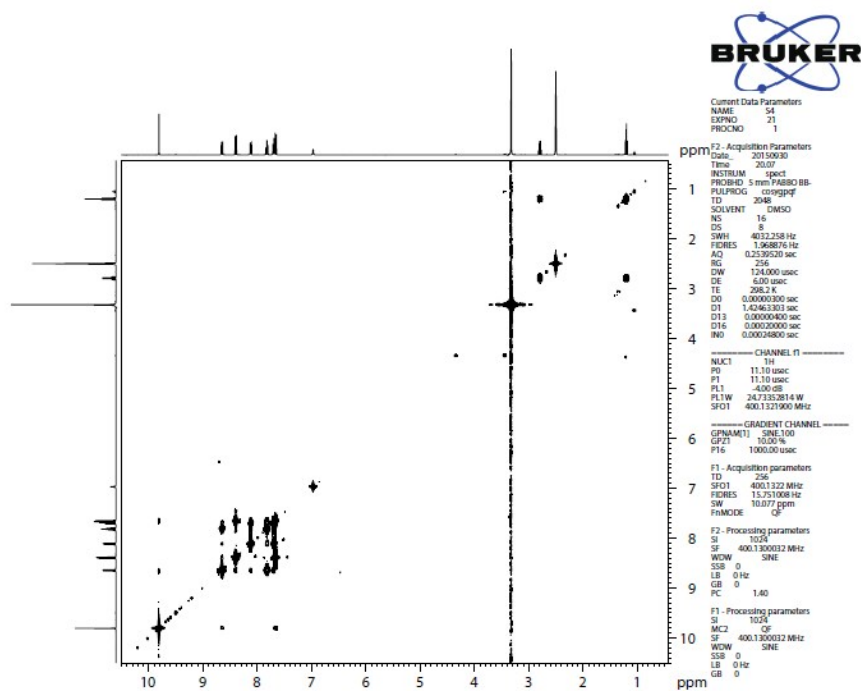
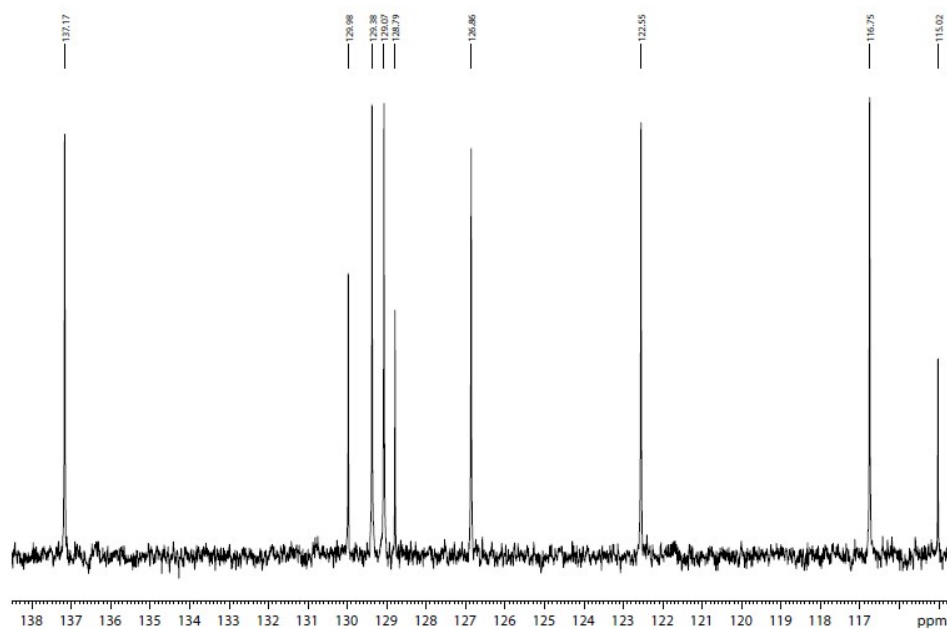
Expanded ¹H NMR OF 2

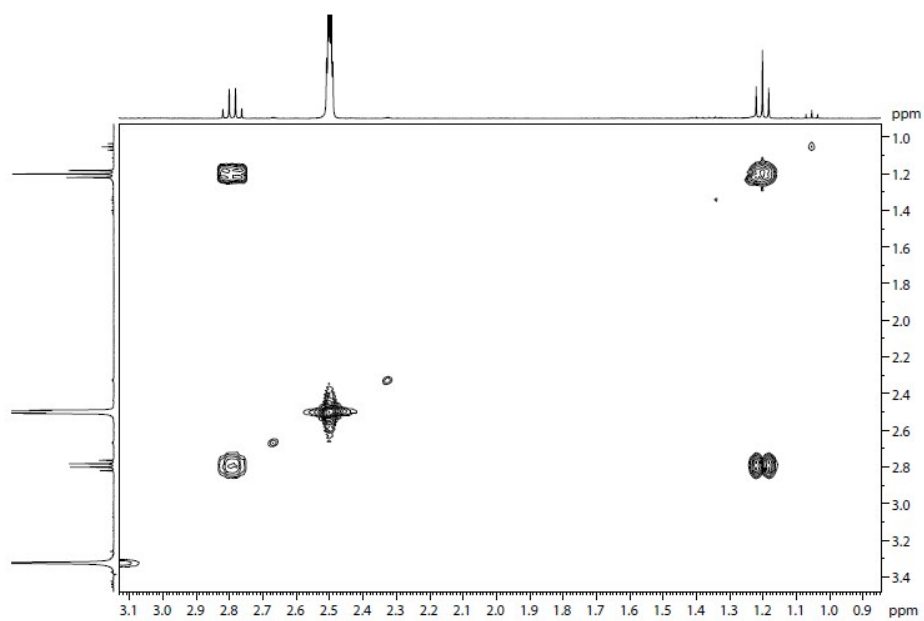


^{13}C NMR OF 2

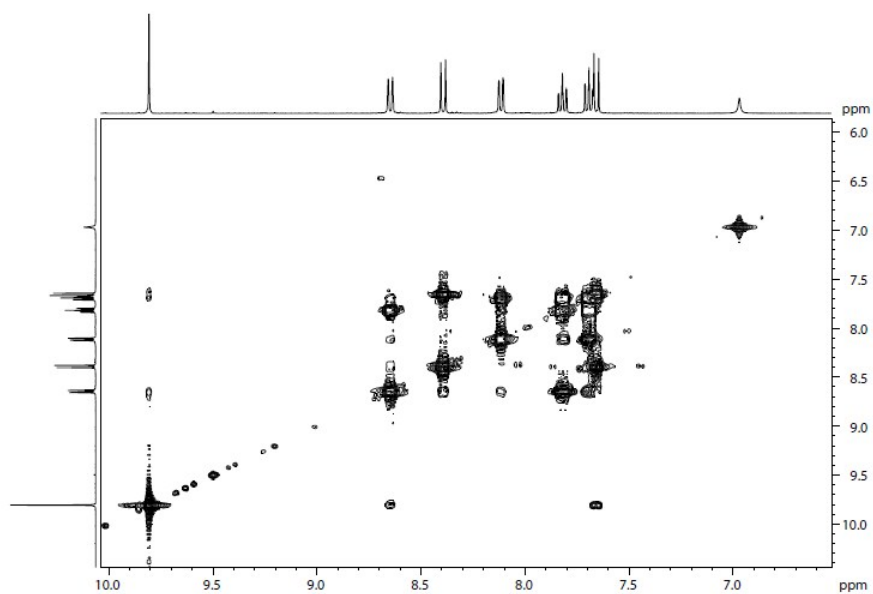


Expanded ^{13}C NMR OF 2

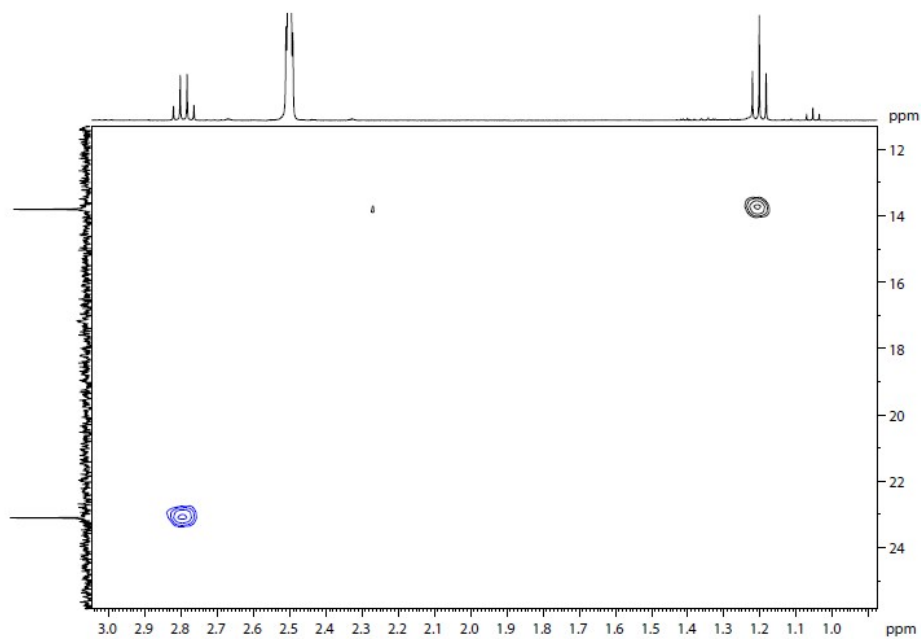




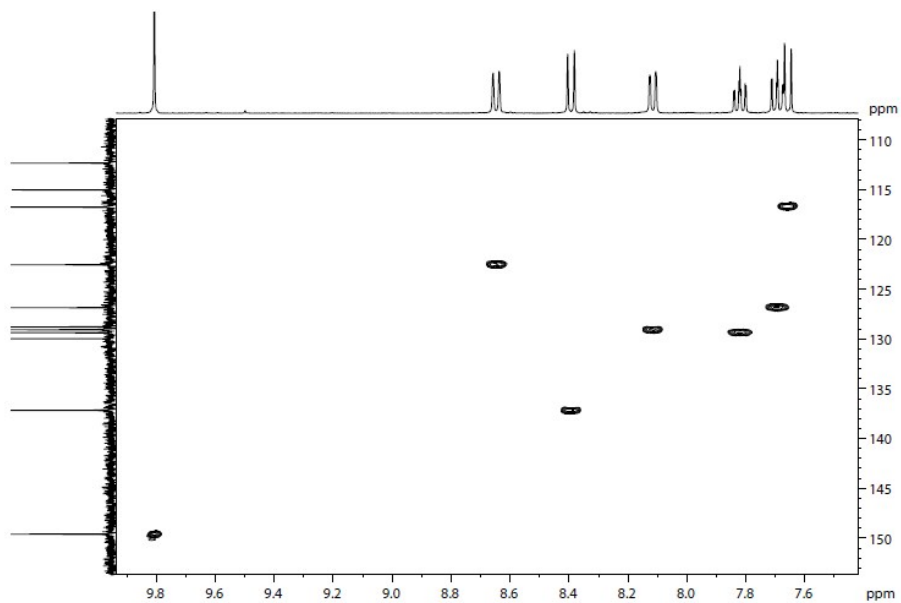
Expanded H-H COSY OF 2



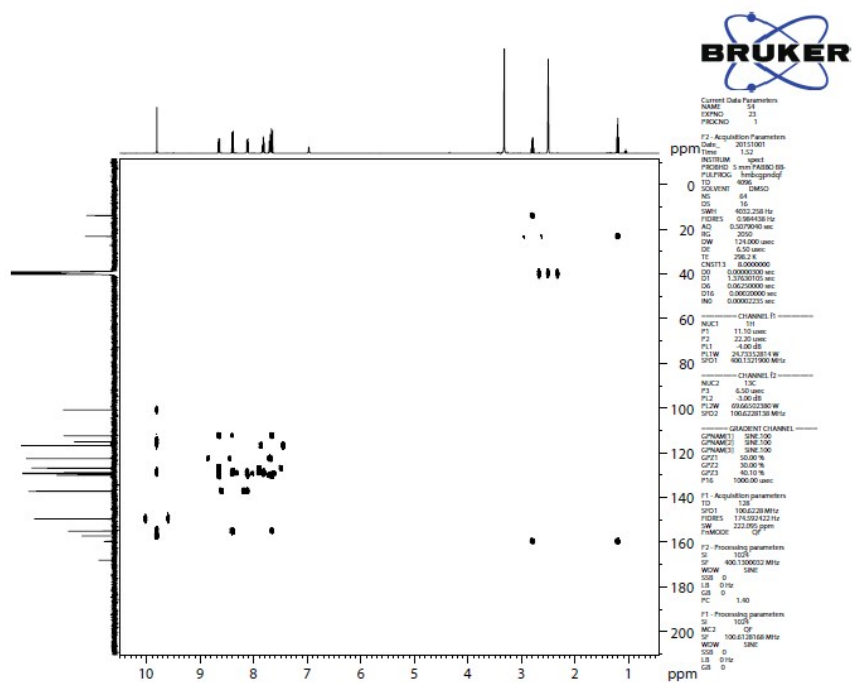
Expanded H-H COSY OF 2



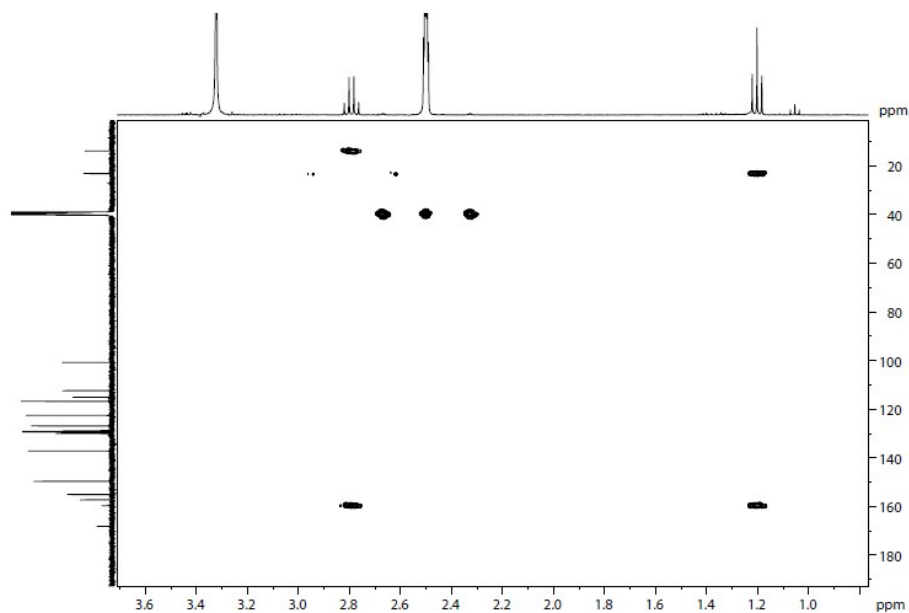
Expanded HSQC OF 2



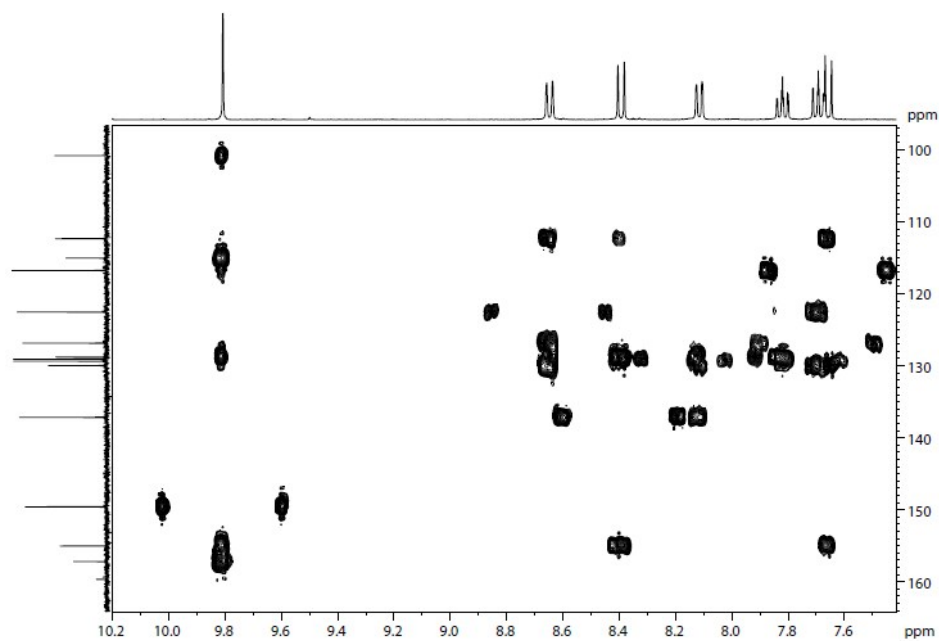
Expanded HSQC OF 2



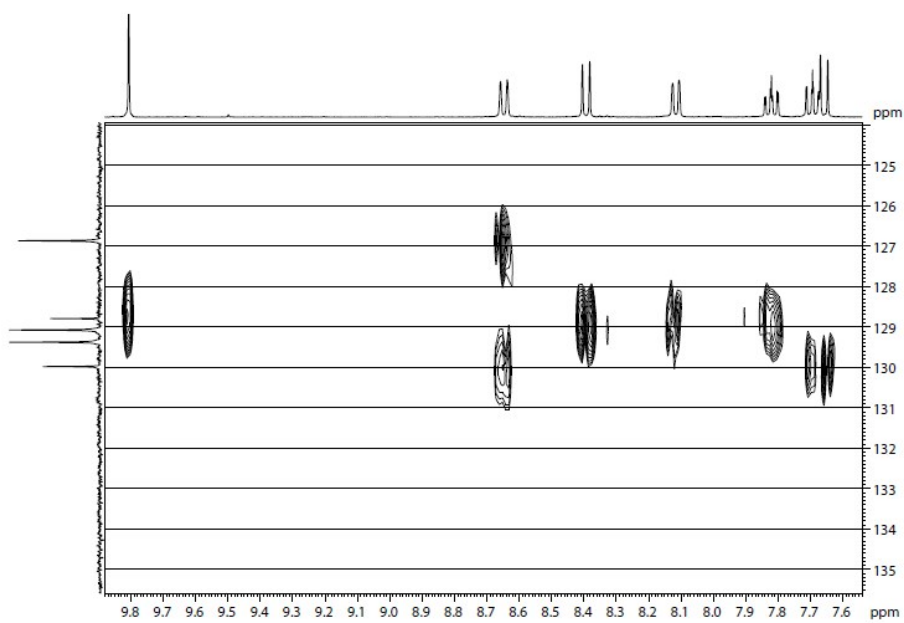
HMBC OF 2



HMBC OF 2

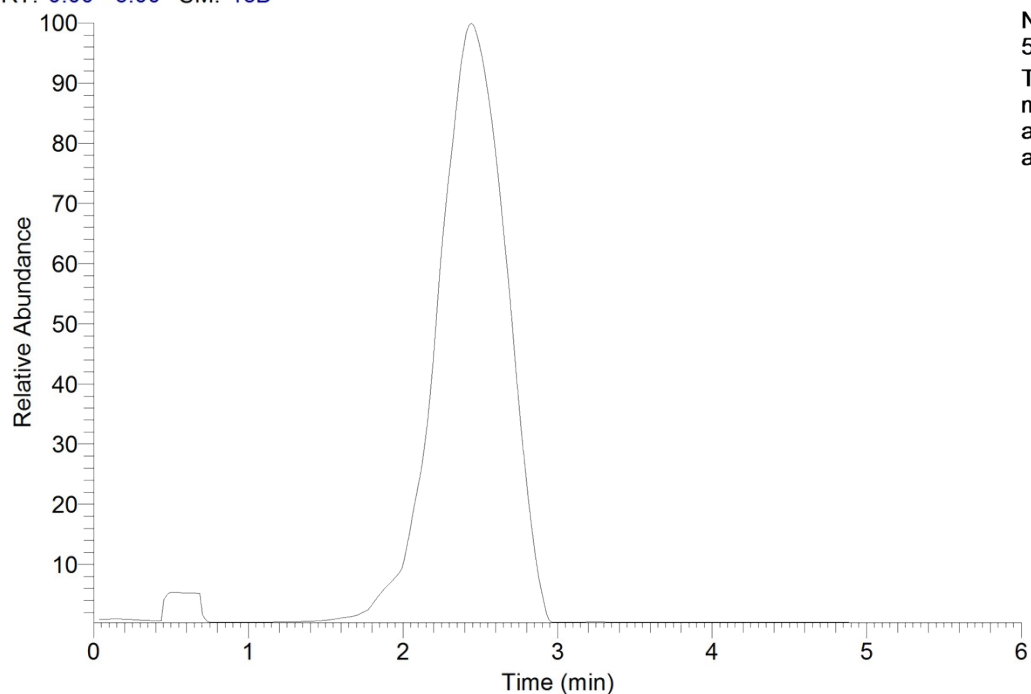


Expanded HMBC OF 2



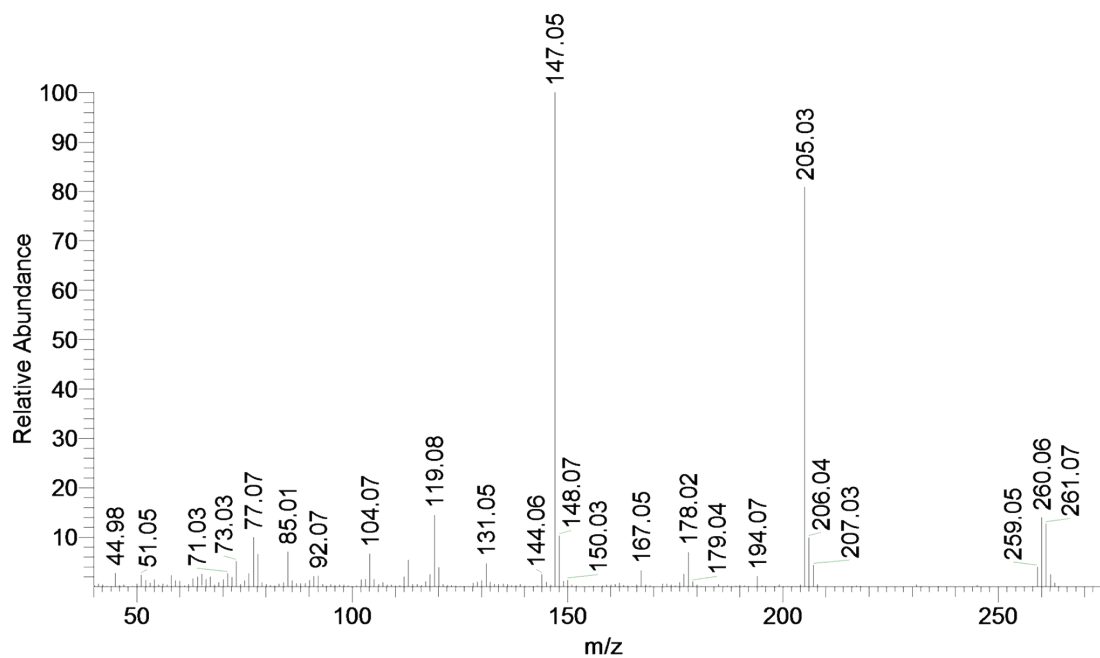
Expanded HMBC OF 2

RT: 0.00 - 6.00 SM: 15B

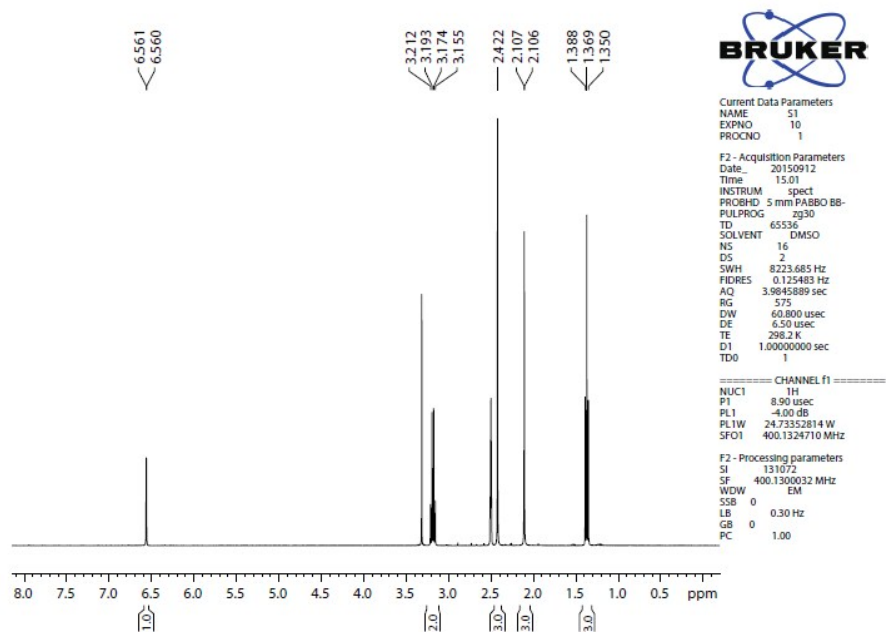


NL:
5.29E8
TIC MS
mohamed-
abd-
alsalam-1

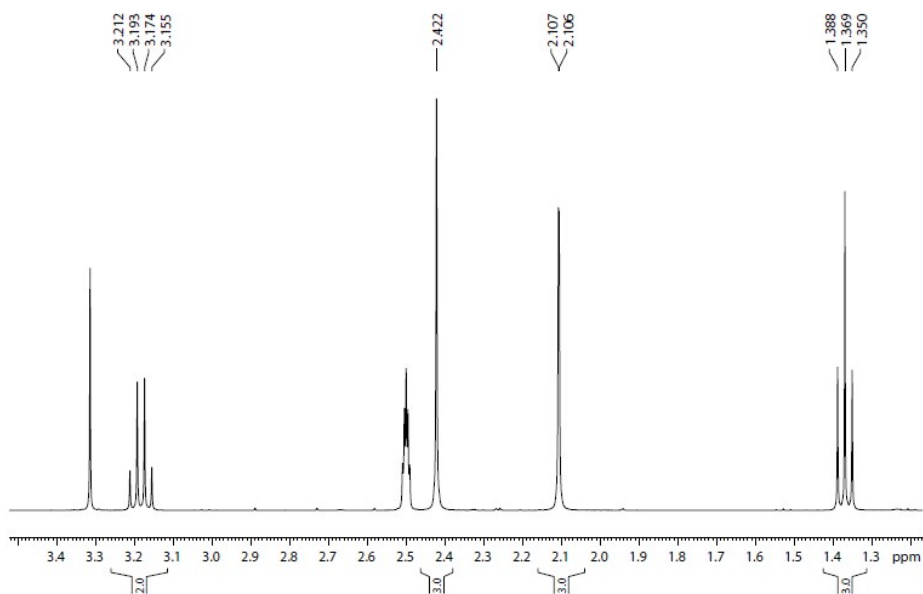
mohamed-abd-alsalam-1 #108-198 RT: 1.82-3.33 AV: 91 NL: 4.17E7
T: {0,0} + c EI Full ms [40.00-1000.00]



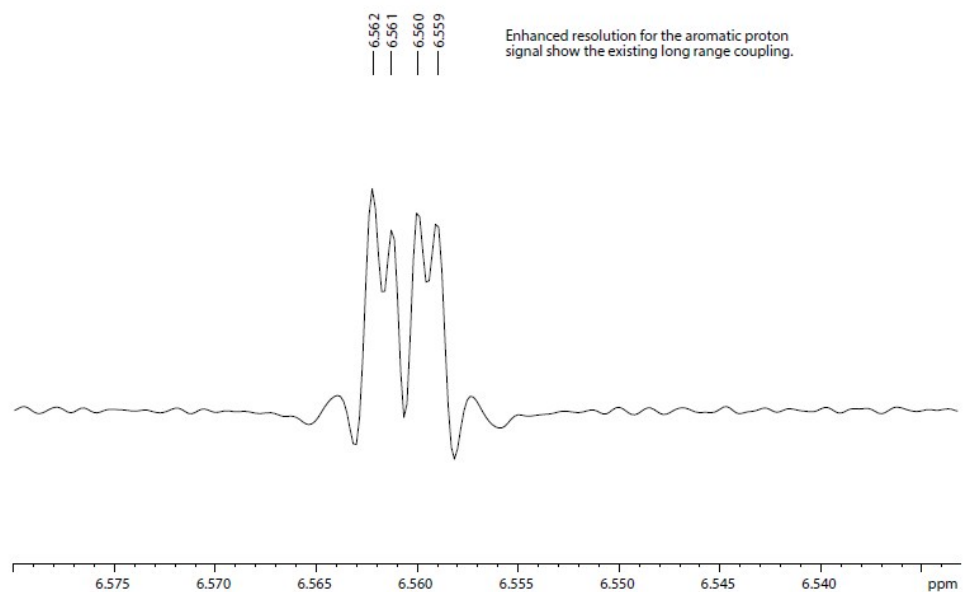
Mass spectrum of 3



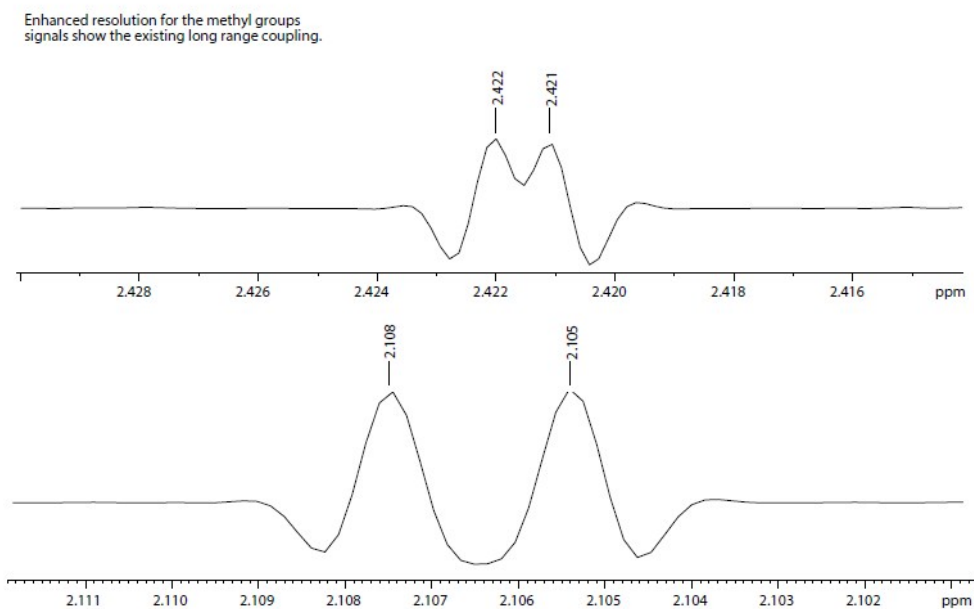
^1H NMR OF 3



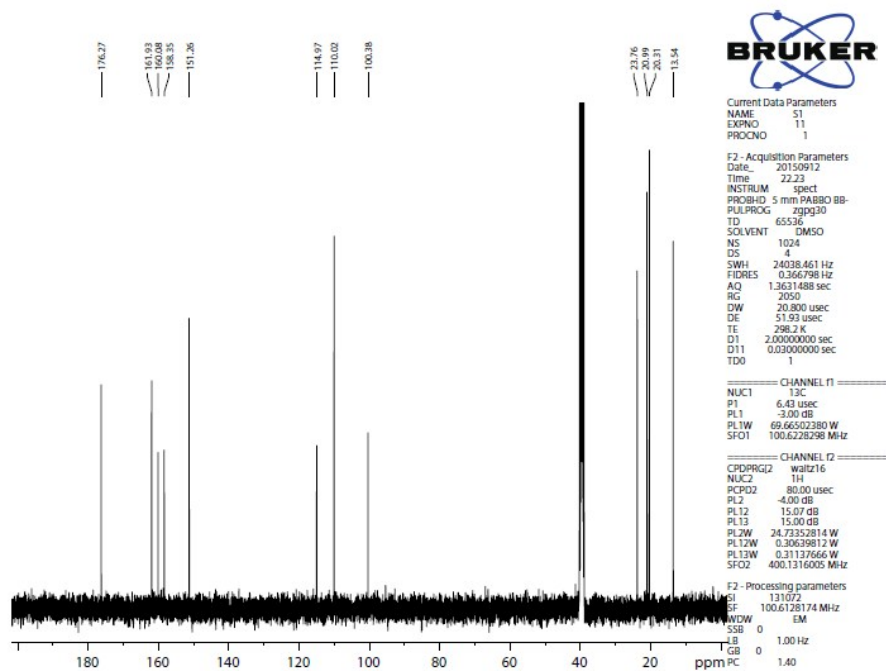
Expanded ^1H NMR OF 3



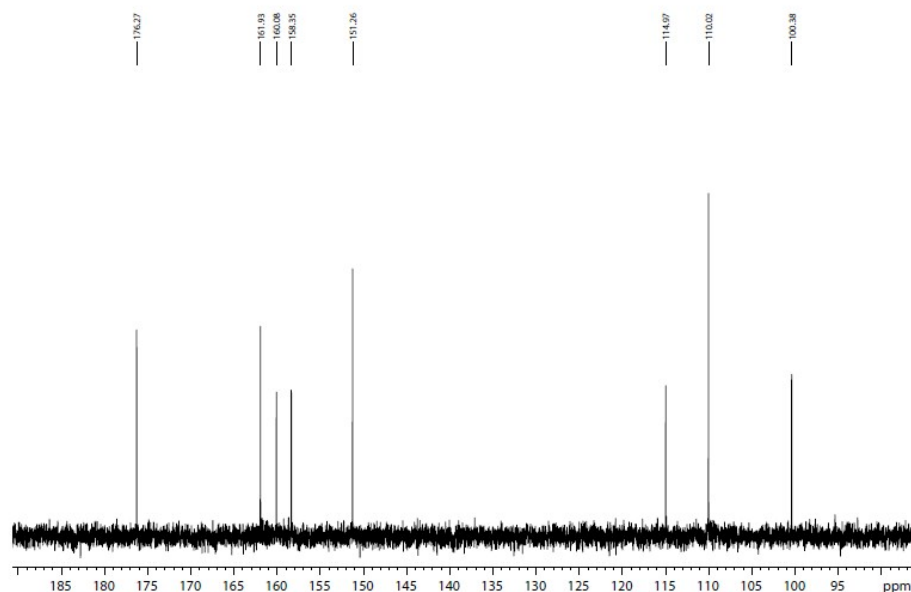
Ar H ER OF 3



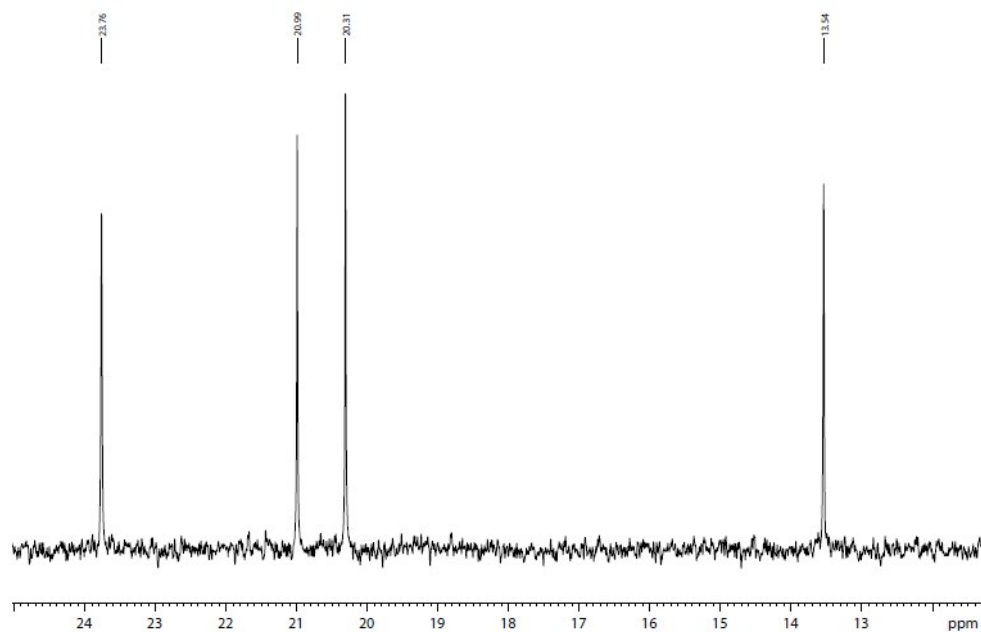
Me ER OF 3



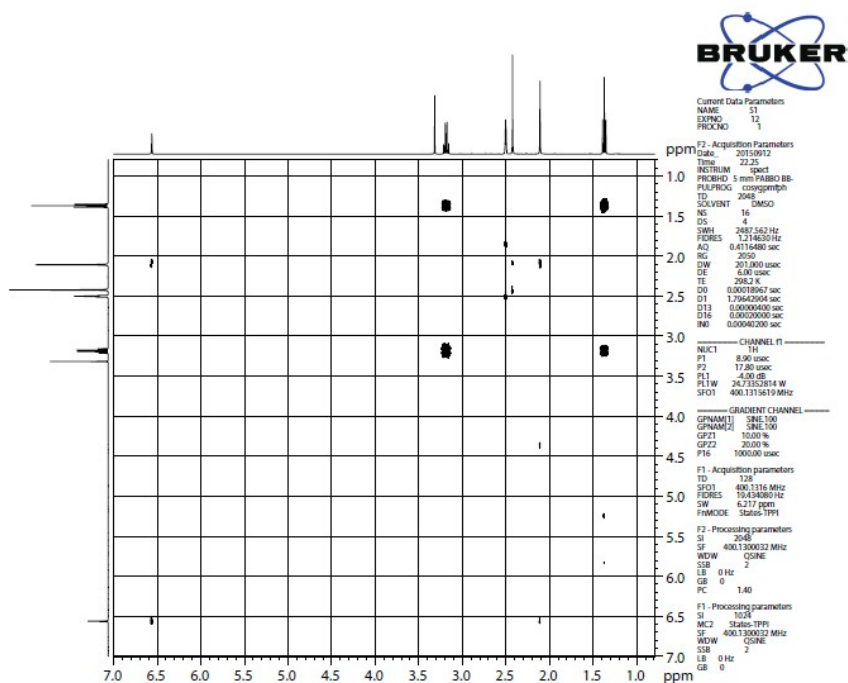
^{13}C NMR OF 3



Expanded ^{13}C NMR OF 3

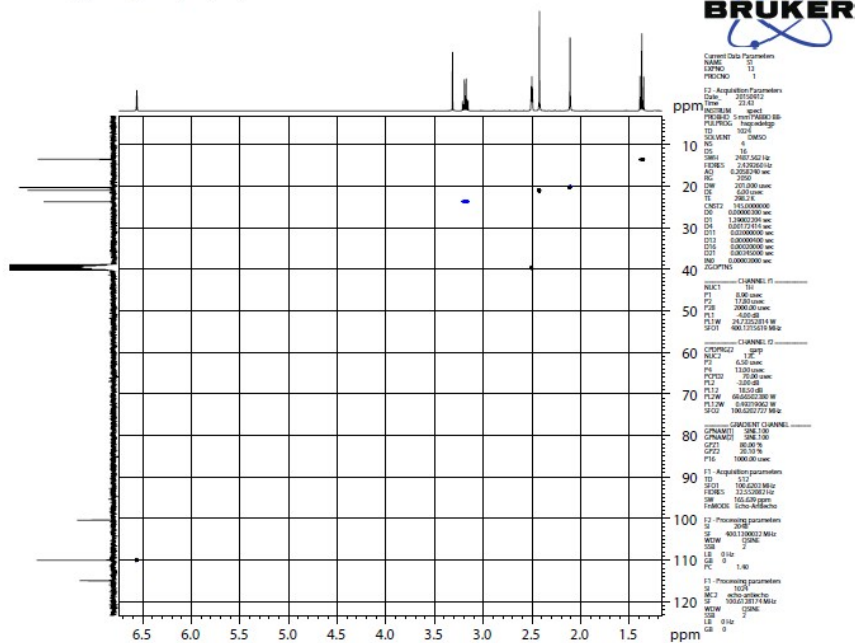


Expanded ¹³C NMR OF 3



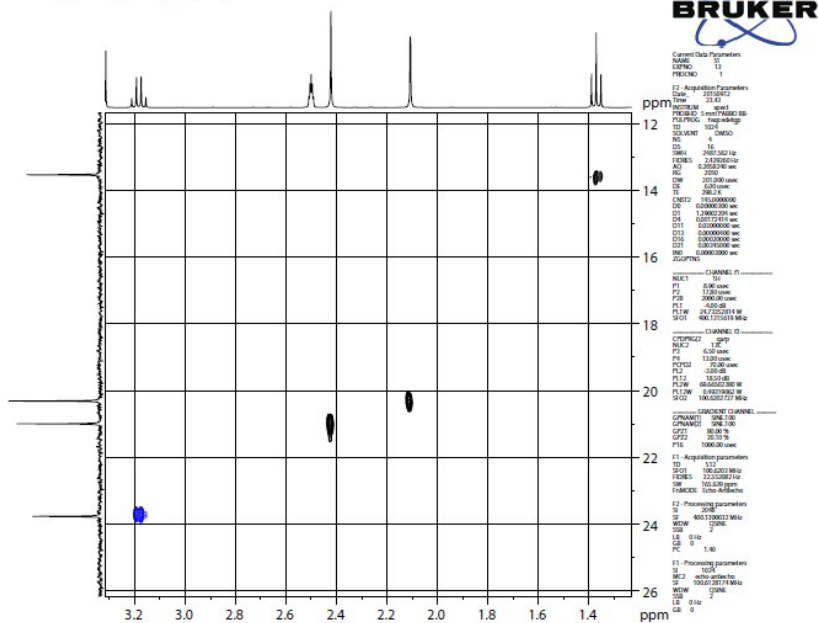
H-H COSY OF 3

Edited HSQC, the negative peak (CH₂) is blue

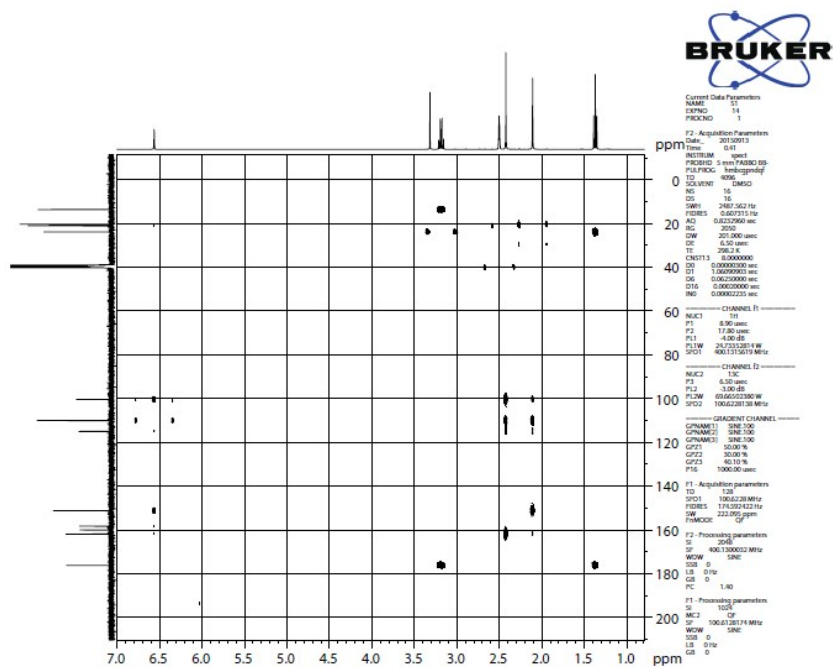


HSQC OF 3

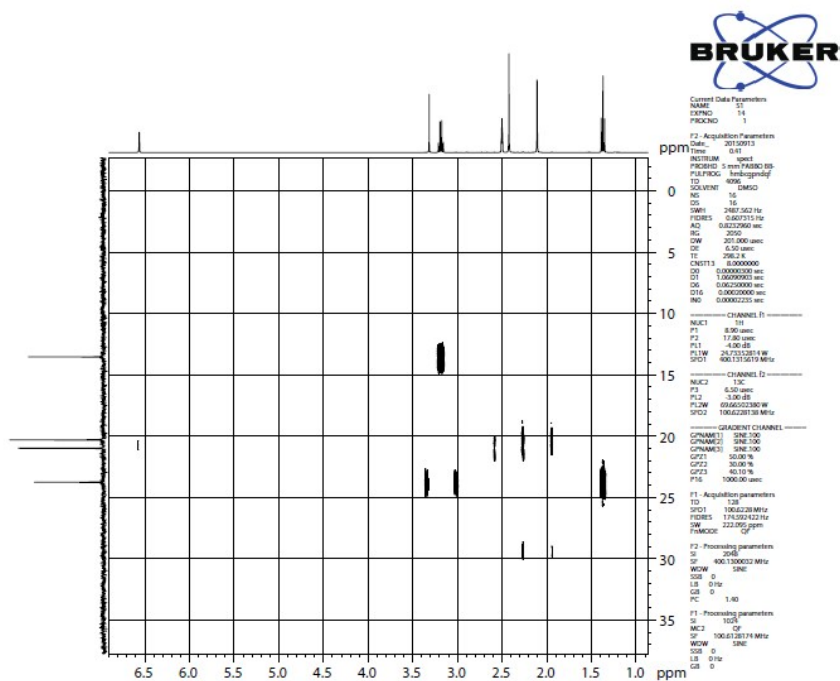
Edited HSQC, the negative peak (CH₂) is blue



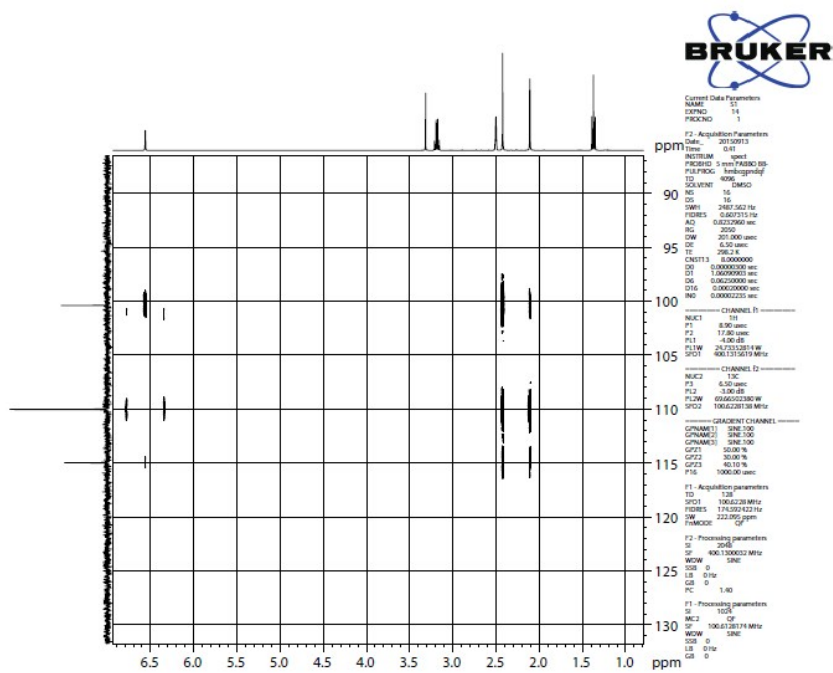
Expanded HSQC OF 3



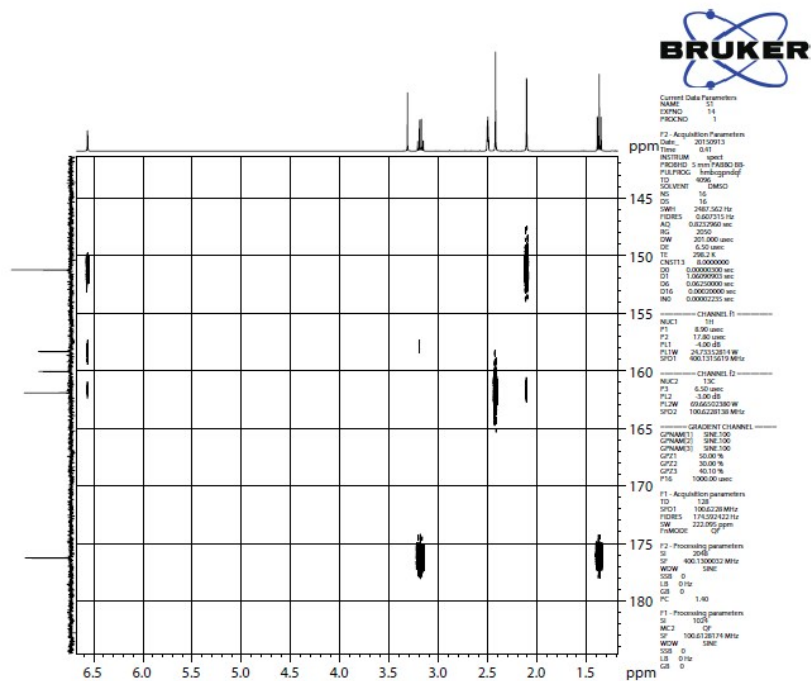
HMBC OF 3



Expanded HMBC OF 3

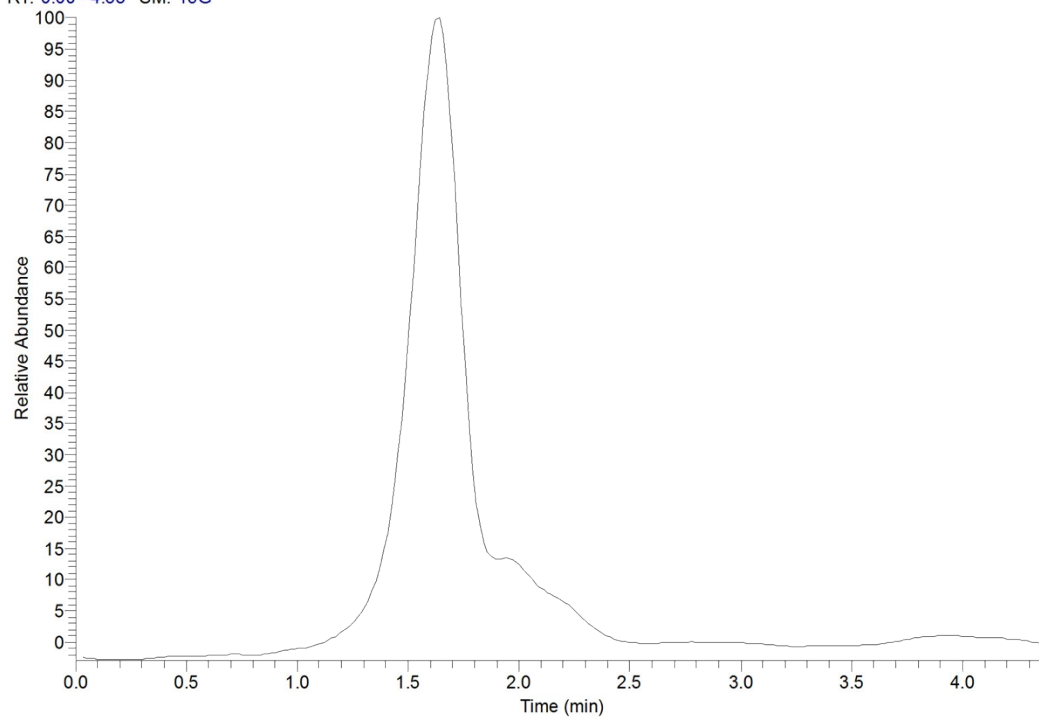


Expanded HMBC OF 3



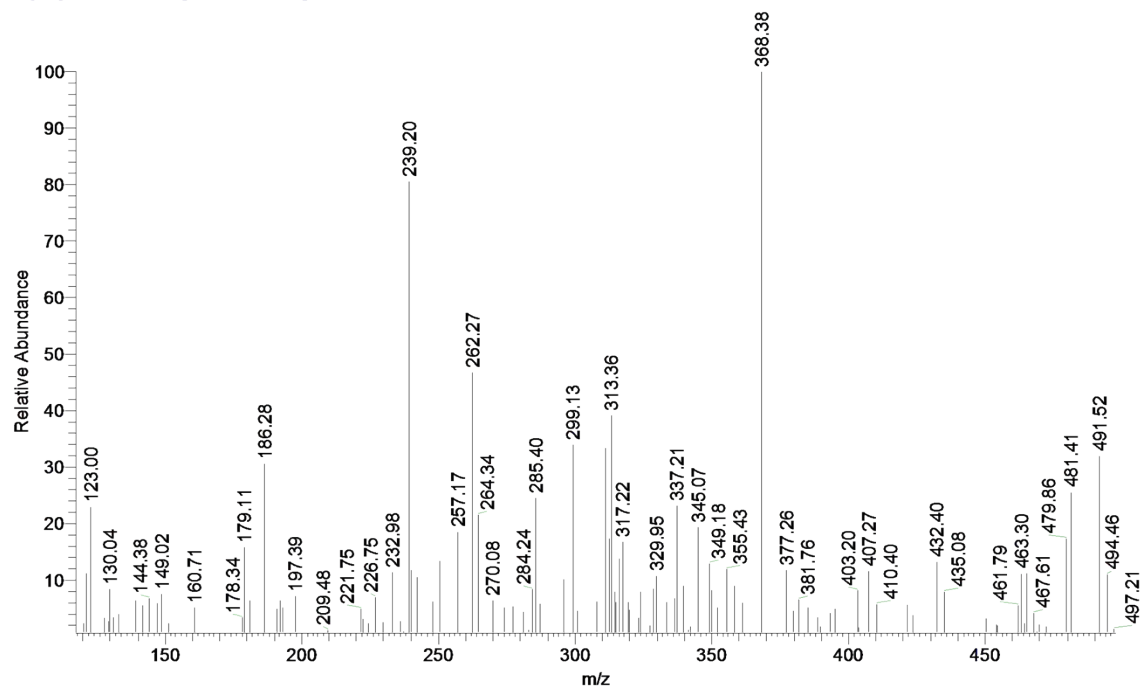
Expanded HMBC OF 3

RT: 0.00 - 4.38 SM: 15G



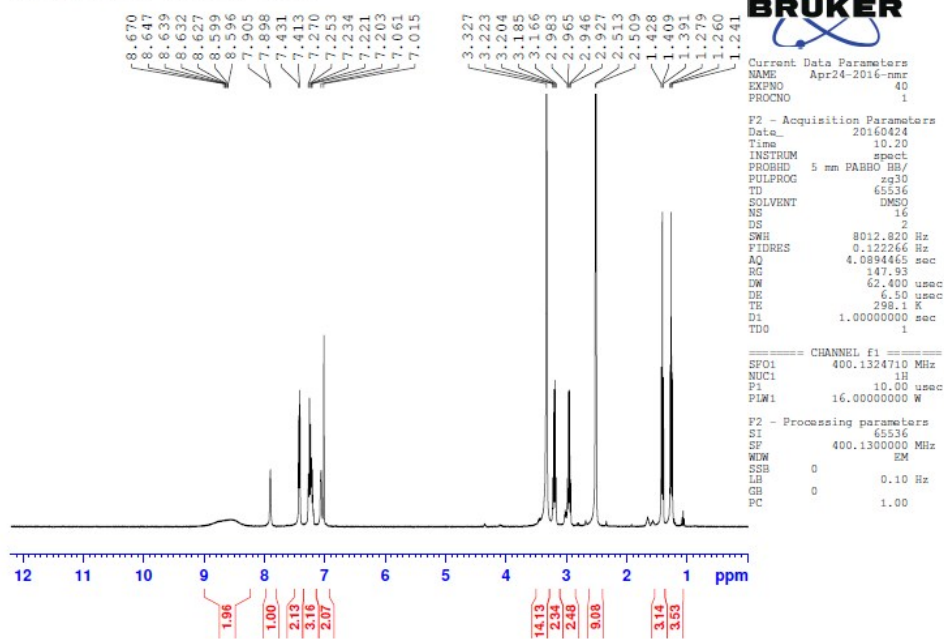
NL:
1.37E7
TIC MS
mohamed-
abdelsalam
-
9_1702191
32502

mohamed-abdelsalam-9_170219132502 #219 RT: 3.68 AV: 1 SB: 2 3.28, 3.41 NL: 3.90E3
T: {0,0} + c EI Full ms [40.00-1000.00]



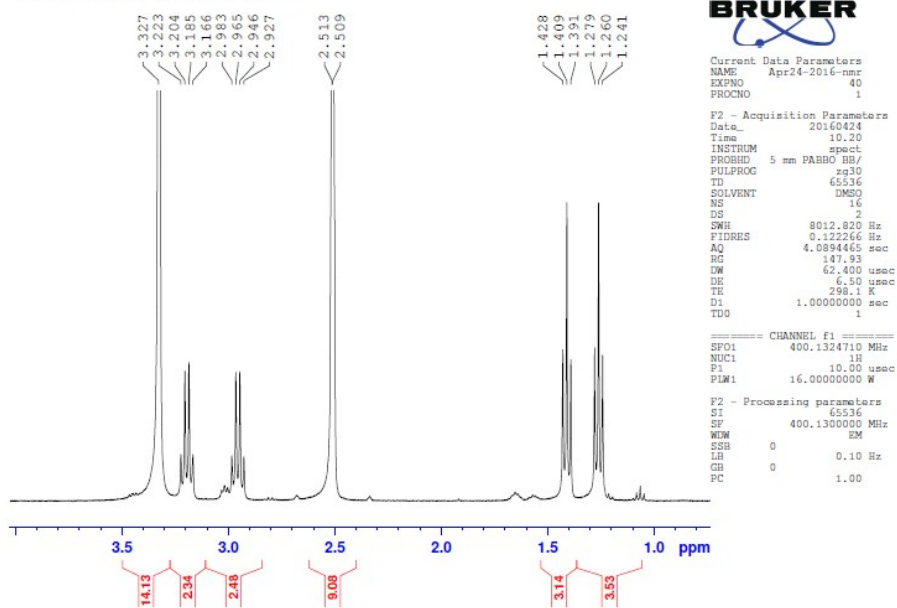
Mass spectrum of 4

M.ABDELSALAM-9
PROTON_BSU DMSO (C:\data) nmr 16



¹H NMR OF 4

M.ABDELSALAM-9
PROTON_BSU DMSO (C:\data) nmr 16



Expanded ¹H NMR OF 4

M.ABDELSAIAH-9
 PROTON_BSU DMSO (C:\data) nmr 16

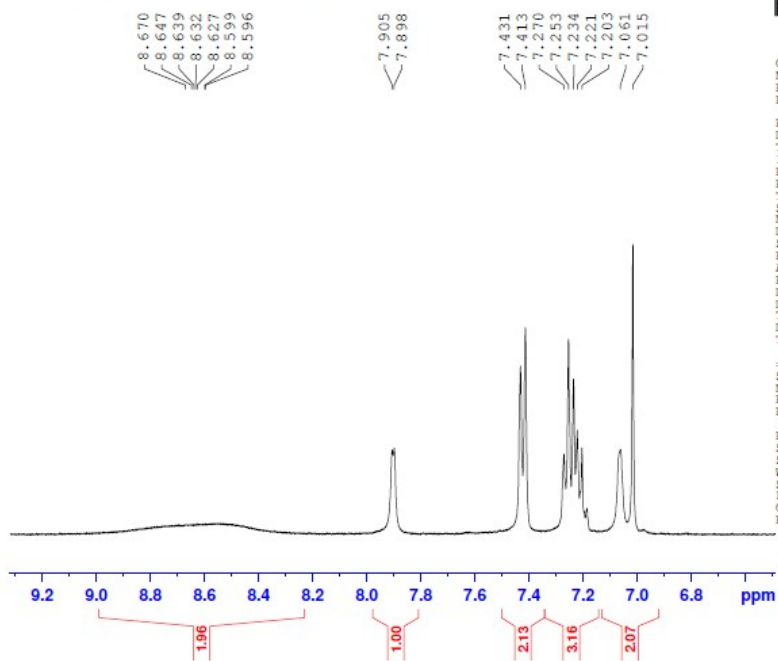


Current Data Parameters
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 PROCNO 1

F2 - Acquisition Parameters
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 Time 10.20
 INSTRUM spect
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 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 147.93
 DW 62.400 usec
 DE 6.50 usec
 TE 298.1 K
 D1 1.00000000 sec
 TD0 1

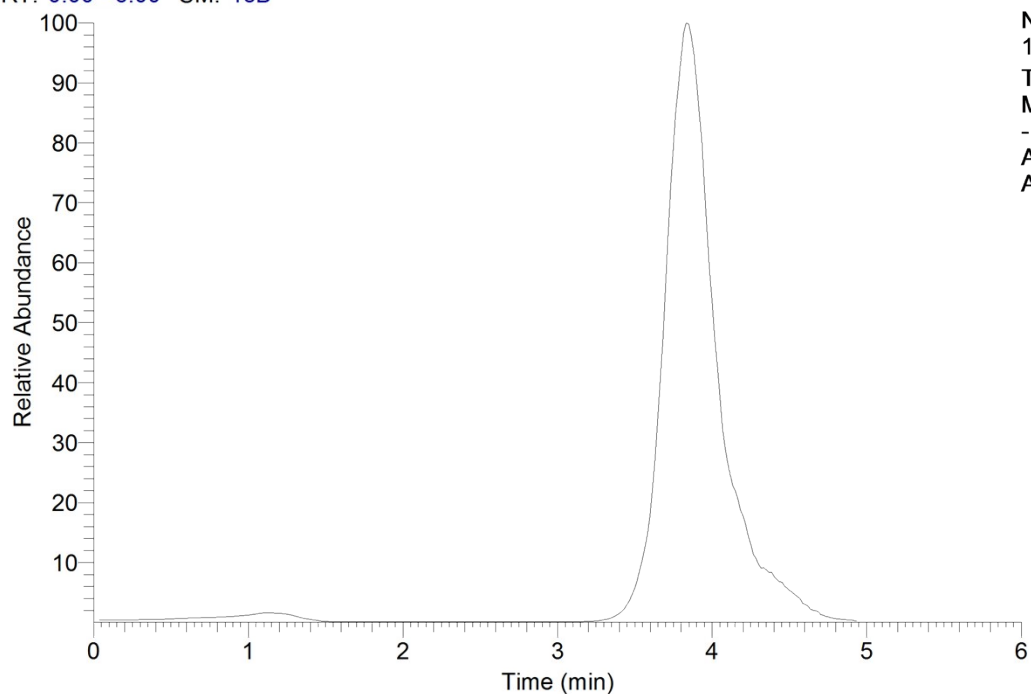
===== CHANNEL f1 =====
 SFO1 400.1324710 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 16.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



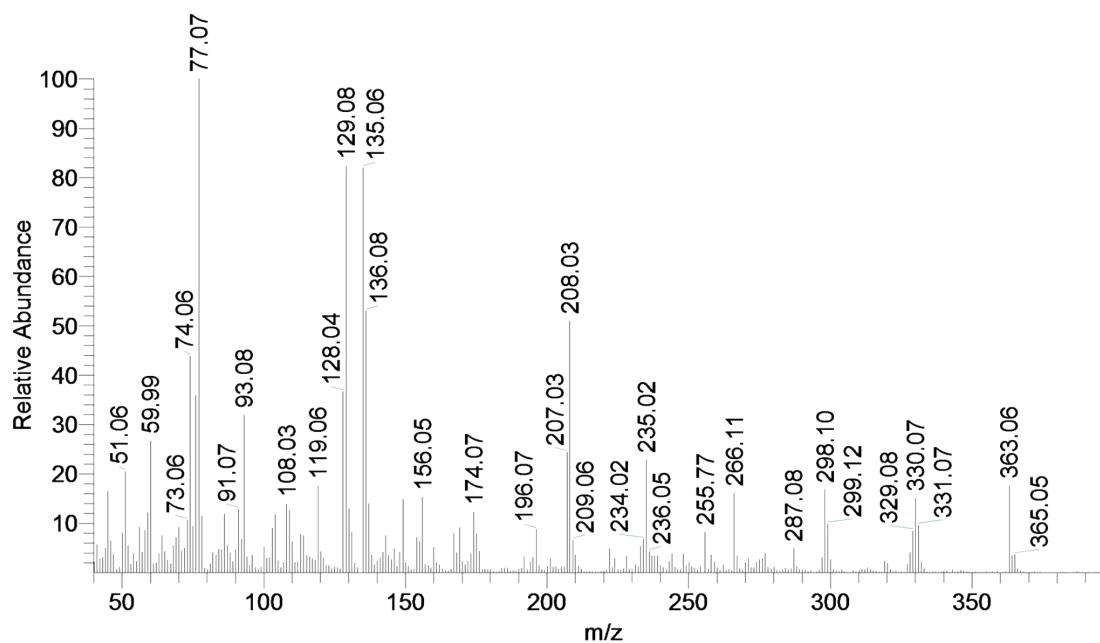
Expanded ^1H NMR OF 4

RT: 0.00 - 6.00 SM: 15B



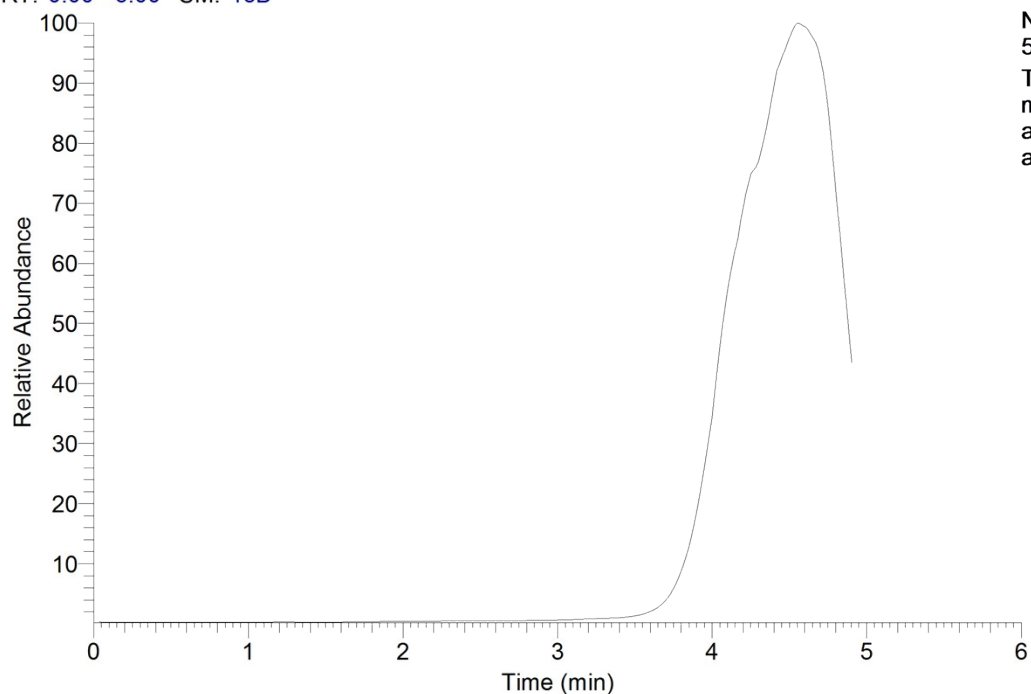
NL:
1.27E9
TIC MS
MOHAMED
-
ABDELSAL
AM-17

MOHAMED-ABDELSALAM-17 #230 RT: 3.87 AV: 1 NL: 8.68E7
T: {0,0} + c EI Full ms [40.00-1000.00]



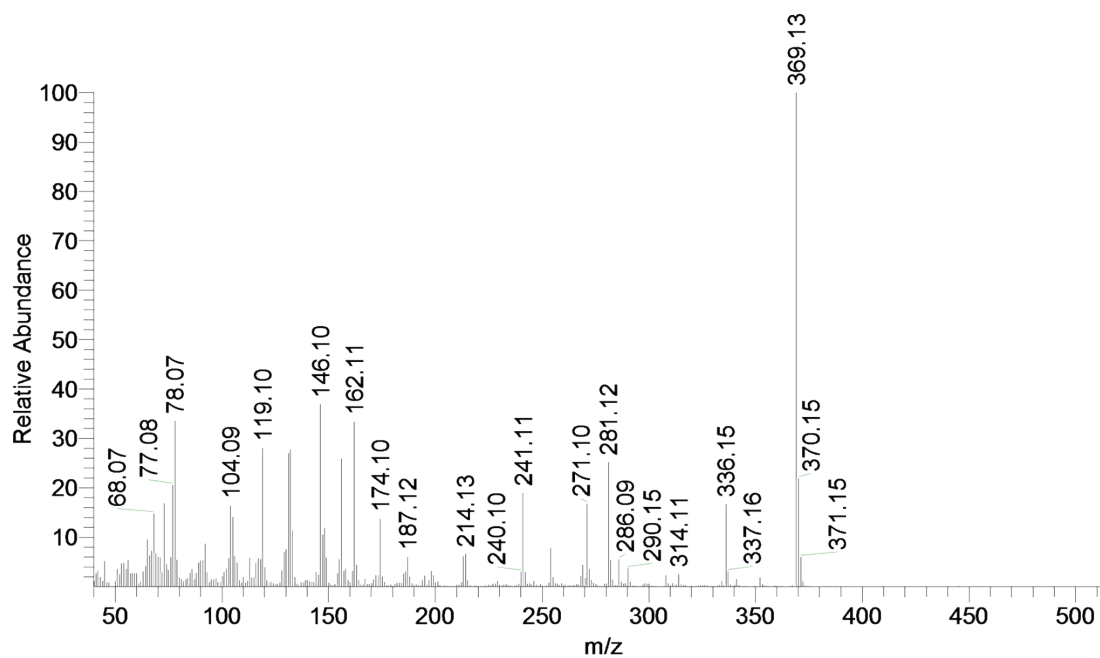
Mass spectrum of 5

RT: 0.00 - 6.00 SM: 15B



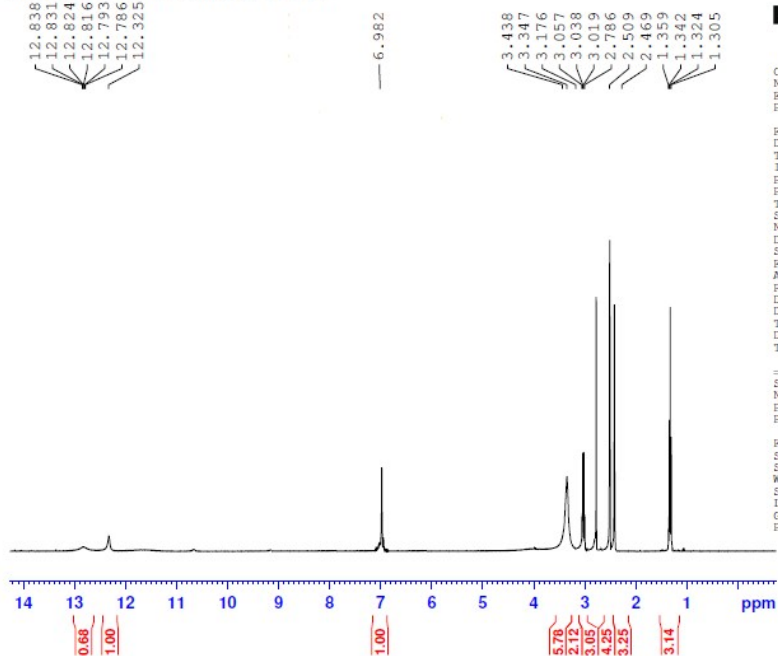
NL:
5.93E8
TIC MS
mohamed-
abd-
alsalam-38

mohamed-abd-alsalam-38 #266 RT: 4.47 AV: 1 NL: 5.78E7
T: {0,0} + c EI Full ms [40.00-1000.00]



Mass spectrum of 6

M.ABDELSALAM-38
 PROTON_BSU DMSO (C:\data) nmr 16



Current Data Parameters
 NAME Apr19-2016-nmr
 EXPNO 50
 PROCNO 1

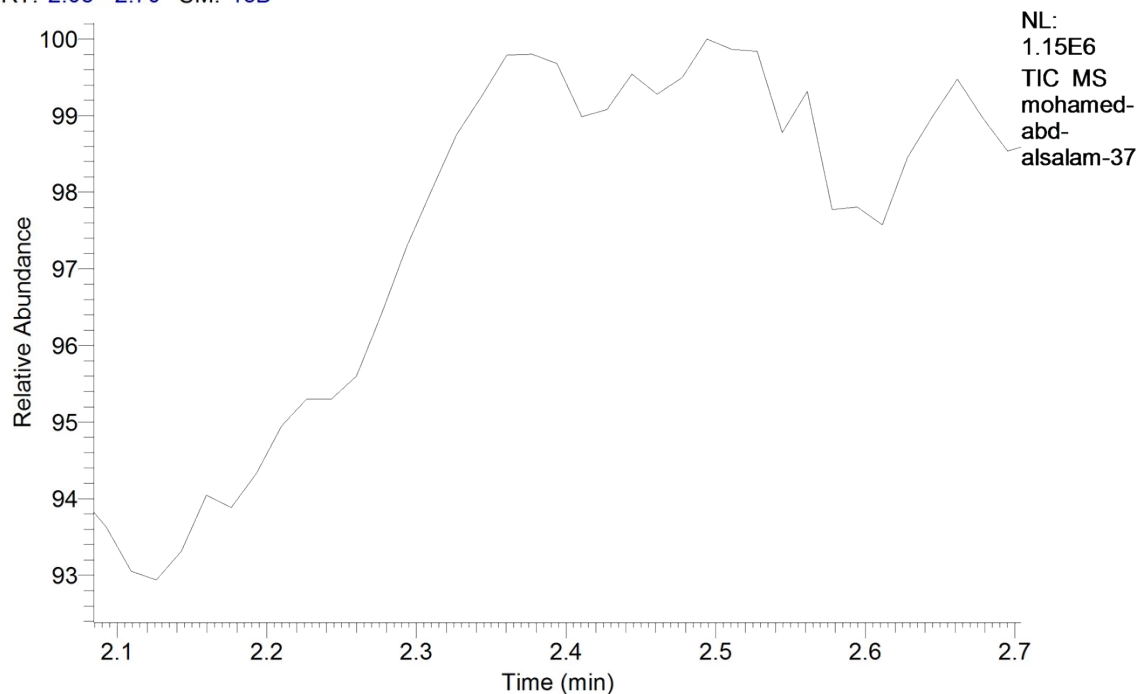
F2 - Acquisition Parameters
 Date_ 20160419
 Time 10.35
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 81.84
 DW 62.400 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 TDO 1

===== CHANNEL f1 =====
 SFO1 400.1324710 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 16.00000000 W

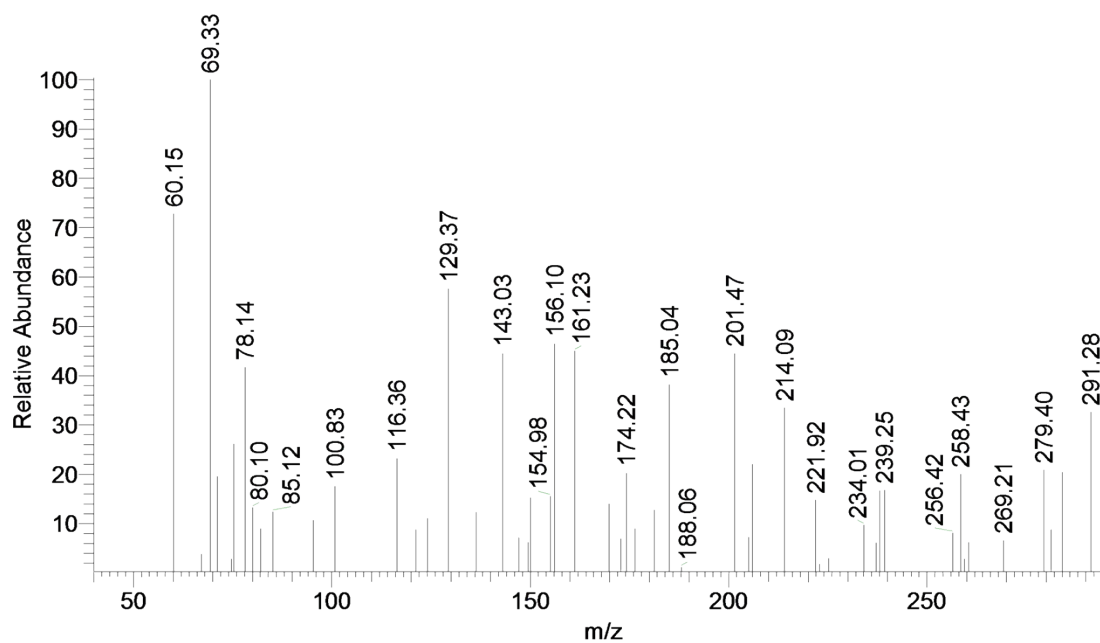
F2 - Processing parameters
 SI 65536
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

¹H NMR OF 7

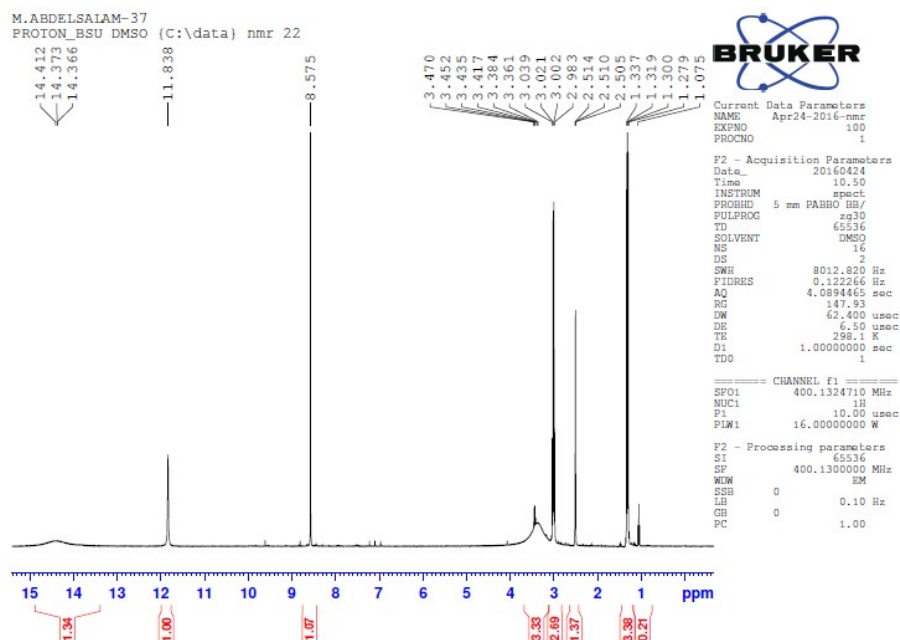
RT: 2.08 - 2.70 SM: 15B



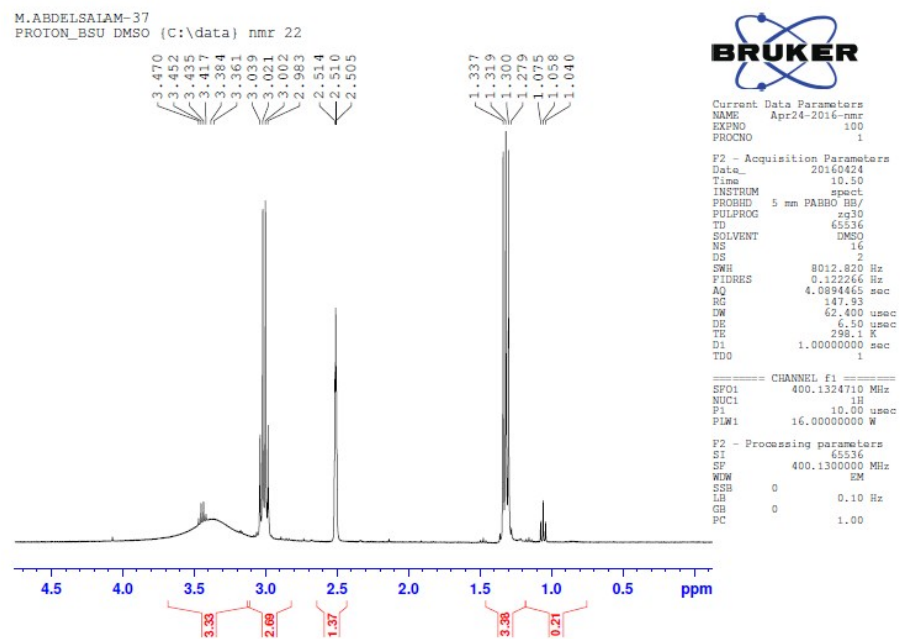
mohamed-abd-alsalam-37 #159 RT: 2.68 AV: 1 SB: 2 4.67, 4.65 NL: 2.47E3
T: {0,0} + c EI Full ms [40.00-1000.00]



Mass spectrum of 8

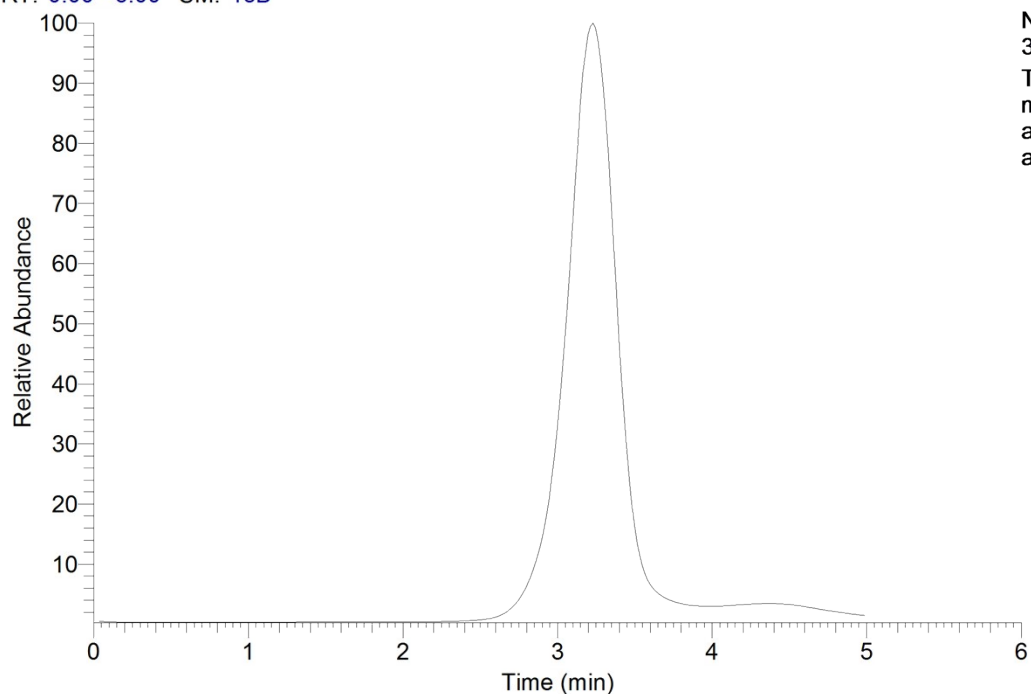


^1H NMR OF 9



Expanded ^1H NMR OF 9

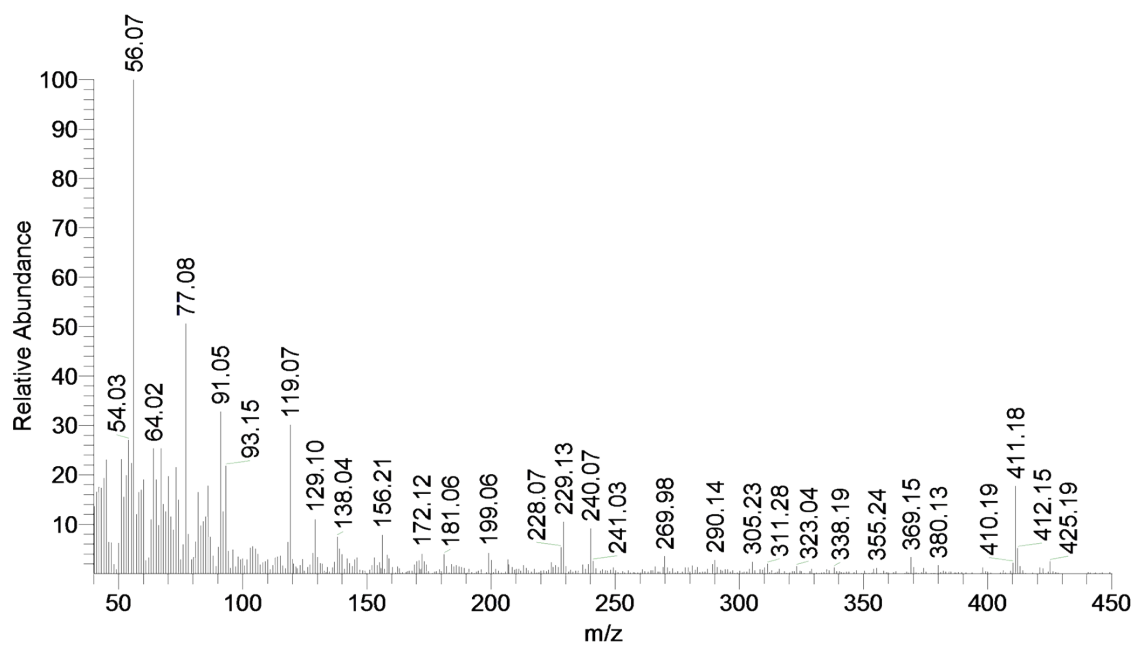
RT: 0.00 - 6.00 SM: 15B



NL:
3.55E8
TIC MS
mohamed-
abd-
alsalam-40

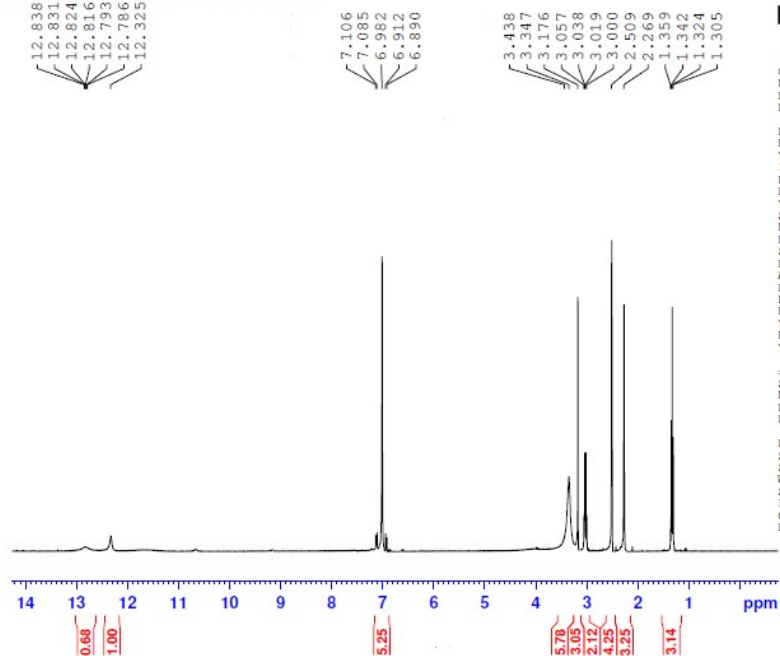
mohamed-abd-alsalam-40 #297 RT: 4.99 AV: 1 NL: 1.96E5

T: {0,0} + c EI Full ms [40.00-1000.00]



Mass spectrum of 10a

M.ABDELSALAM-40
 PROTON_BS0 DMSO (C:\data) nmr 22



Current Data Parameters
 NAME Apr17-2016-nmr
 EXPNO 200
 PROCNO 1

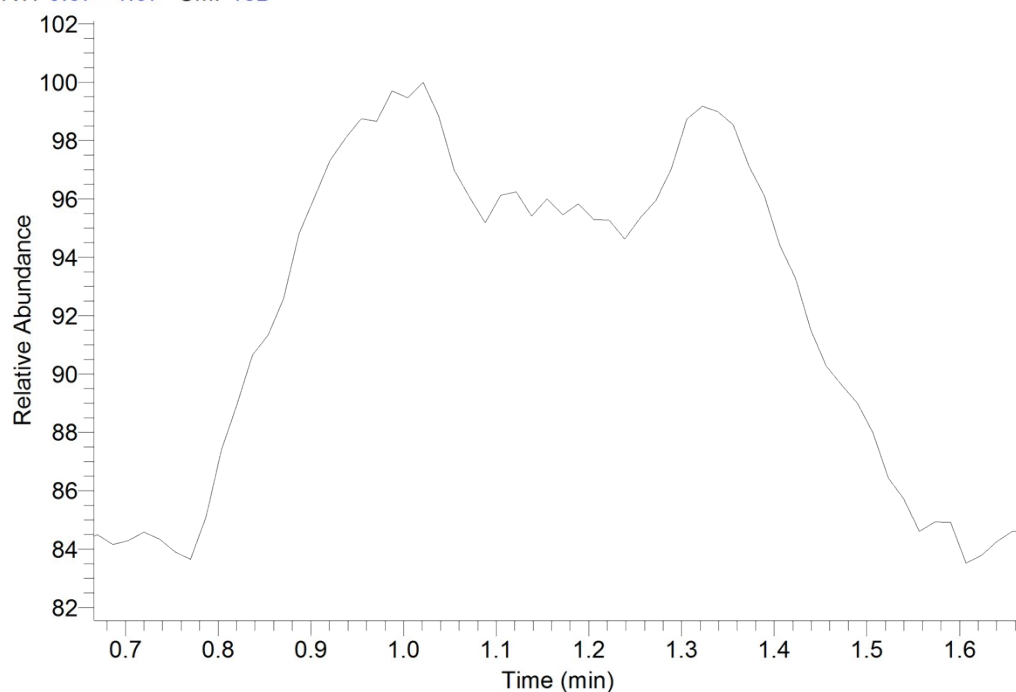
F2 - Acquisition Parameters
 Date_ 20160417
 Time 11.44
 INSTRUM spect
 PROBHD 5 mm PARBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 131.79
 DW 62.400 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 TDO 1

===== CHANNEL f1 =====
 SFO1 400.1324710 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 16.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

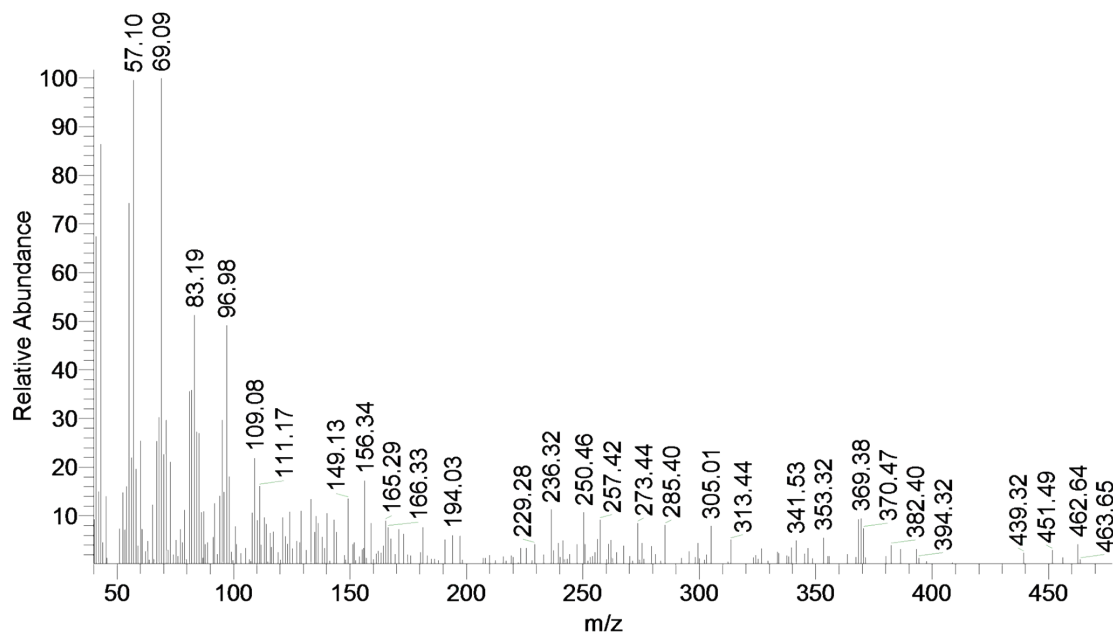
1H NMR OF 10a

RT: 0.67 - 1.67 SM: 15B



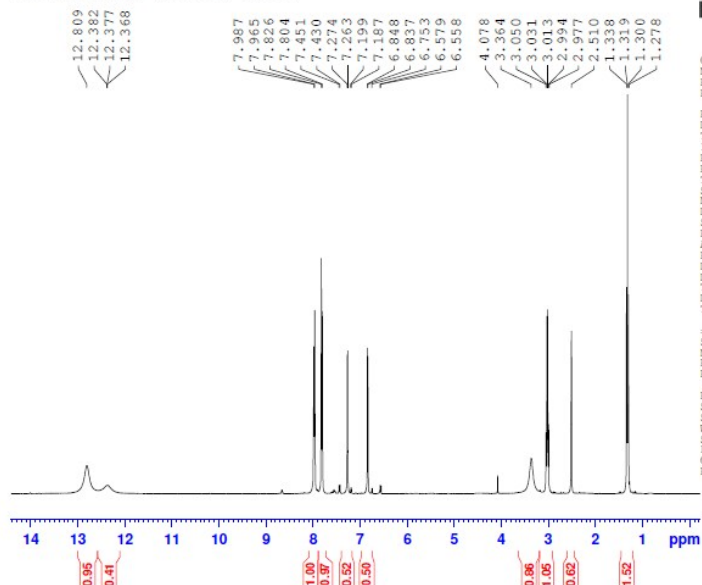
NL:
2.09E6
TIC MS
mohamed-
abd-
alsalam-41

mohamed-abd-alsalam-41 #67 RT: 1.14 AV: 1 NL: 1.68E4
T: {0,0} + c EI Full ms [40.00-1000.00]



Mass spectrum of 10b

M.ABDELSALAM-41
 PROTON_BSUS DMSO (C:\data) nmr 13



Current Data Parameters
 NAME Apr21-2016-nmr
 EXPNO 120
 PROCNO 1

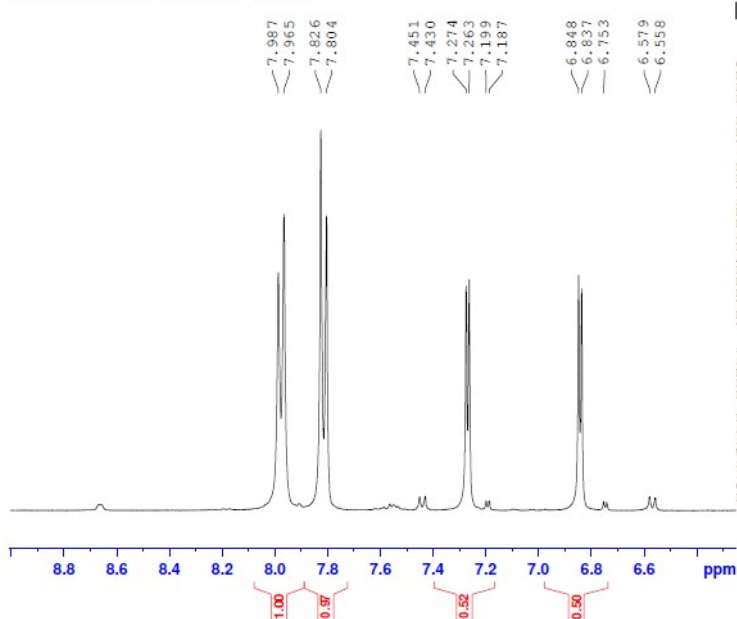
F2 - Acquisition Parameters
 Date_ 20160421
 Time 10.37
 INSTRUM spect
 PROBHD 5 mm PARBO HB/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 91.28
 DW 62.400 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 SFO1 400.1324710 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 16.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

¹H NMR OF 10b

M.ABDELSALAM-41
 PROTON_BSUS DMSO (C:\data) nmr 13



Current Data Parameters
 NAME Apr21-2016-nmr
 EXPNO 120
 PROCNO 1

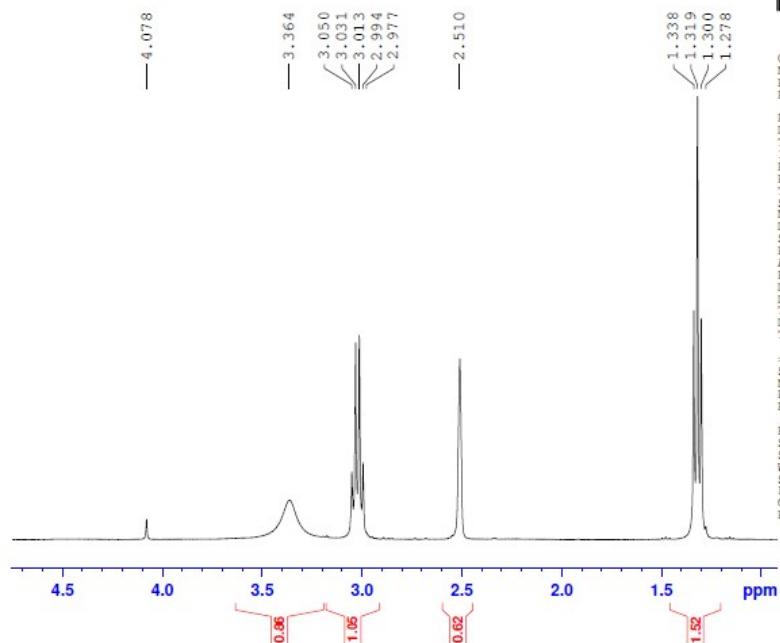
F2 - Acquisition Parameters
 Date_ 20160421
 Time 10.37
 INSTRUM spect
 PROBHD 5 mm PARBO HB/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 91.28
 DW 62.400 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 SFO1 400.1324710 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 16.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

Expanded ¹H NMR OF 10b

M.ABDELSAIAH-41
 PROTON_BSU DMSO (C:\data) nmr 13



Current Data Parameters
 NAME Apr21-2016-nmr
 EXPNO 120
 PROCNO 1

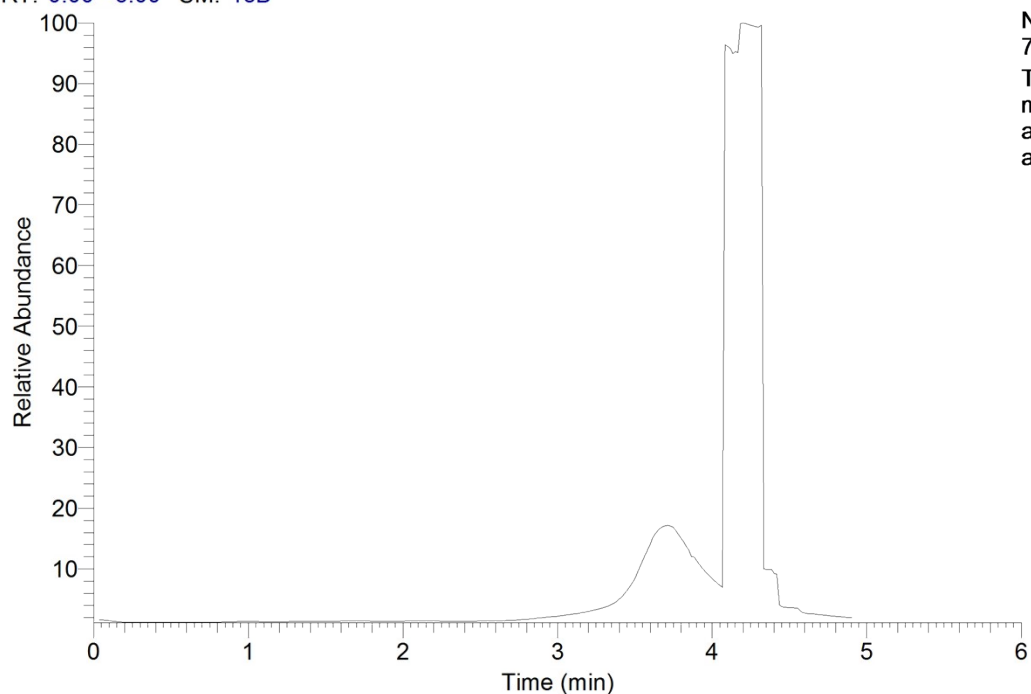
F2 - Acquisition Parameters
 Date_ 20160421
 Time 10.37
 INSTRUM spect
 PROBHD 5 mm PARBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 91.28
 DW 62.400 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 SFO1 400.1324710 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 16.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00

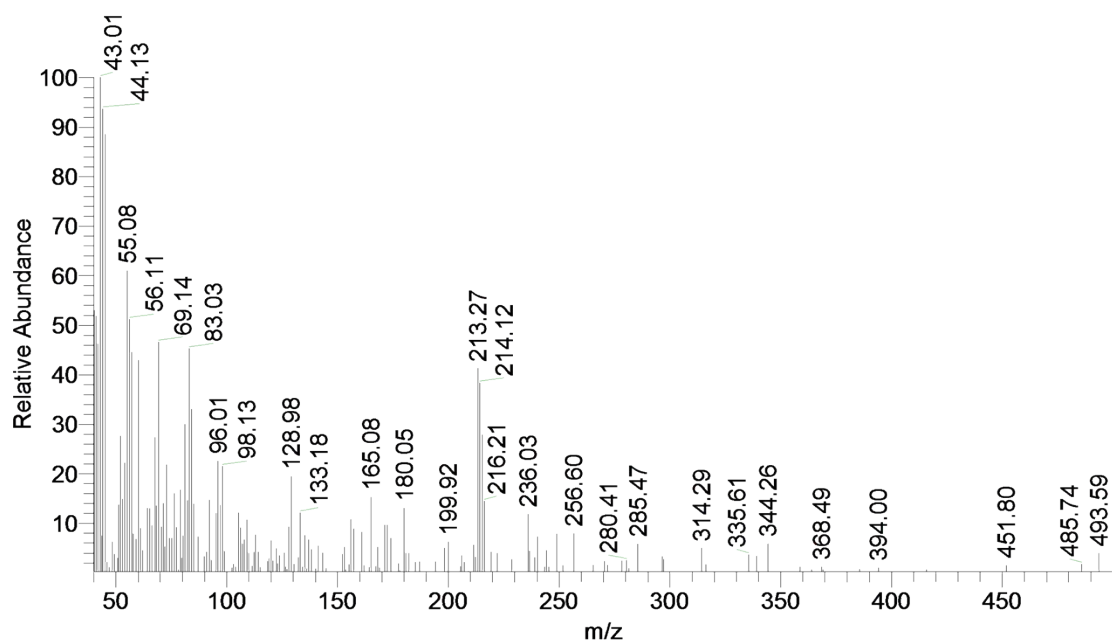
Expanded ^1H NMR OF 10b

RT: 0.00 - 6.00 SM: 15B

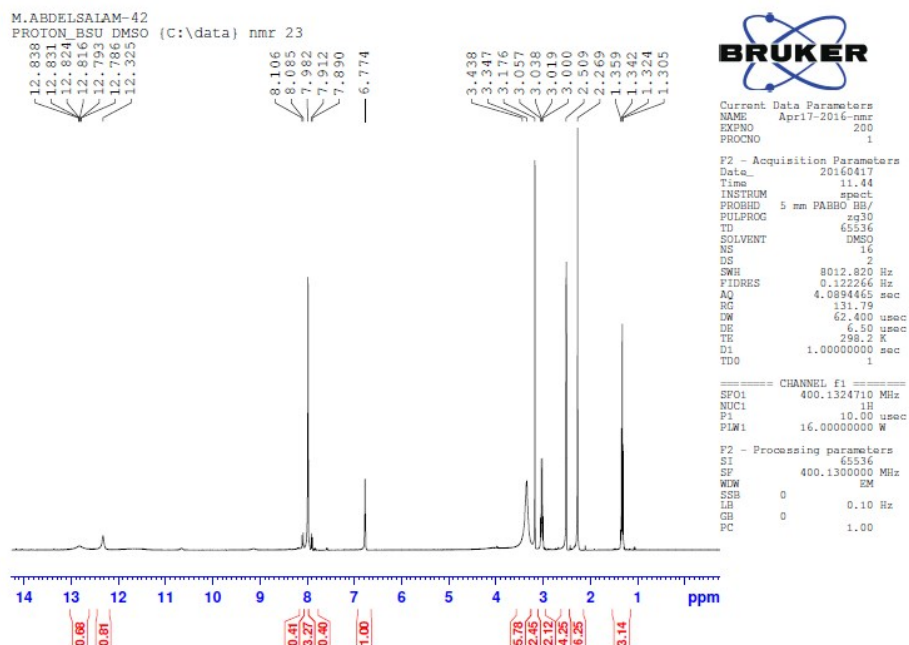


NL:
7.12E7
TIC MS
mohamed-
abd-
alsalam-42

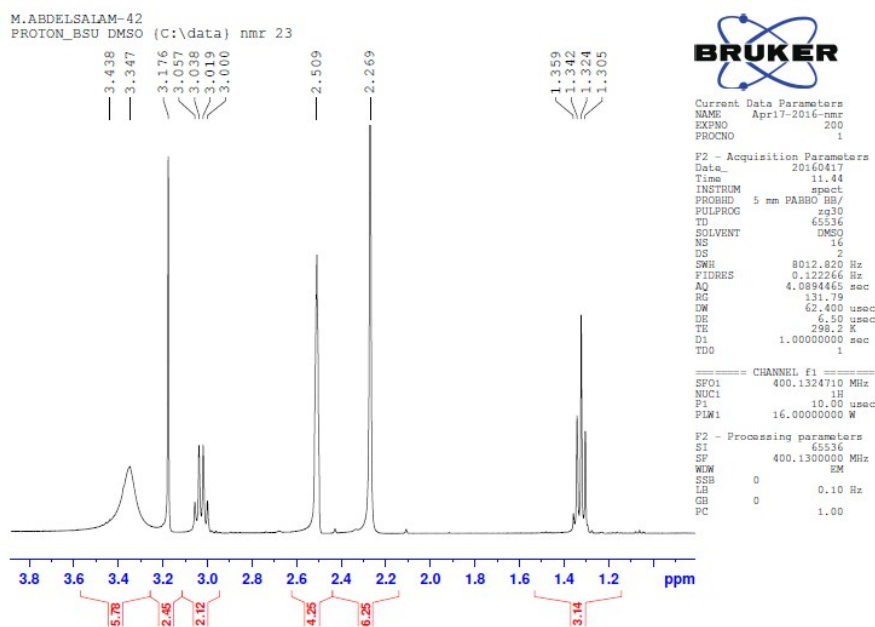
mohamed-abd-alsalam-42 #158 RT: 2.66 AV: 1 NL: 1.03E4
T: {0,0} + c EI Full ms [40.00-1000.00]



Mass spectrum of 10c

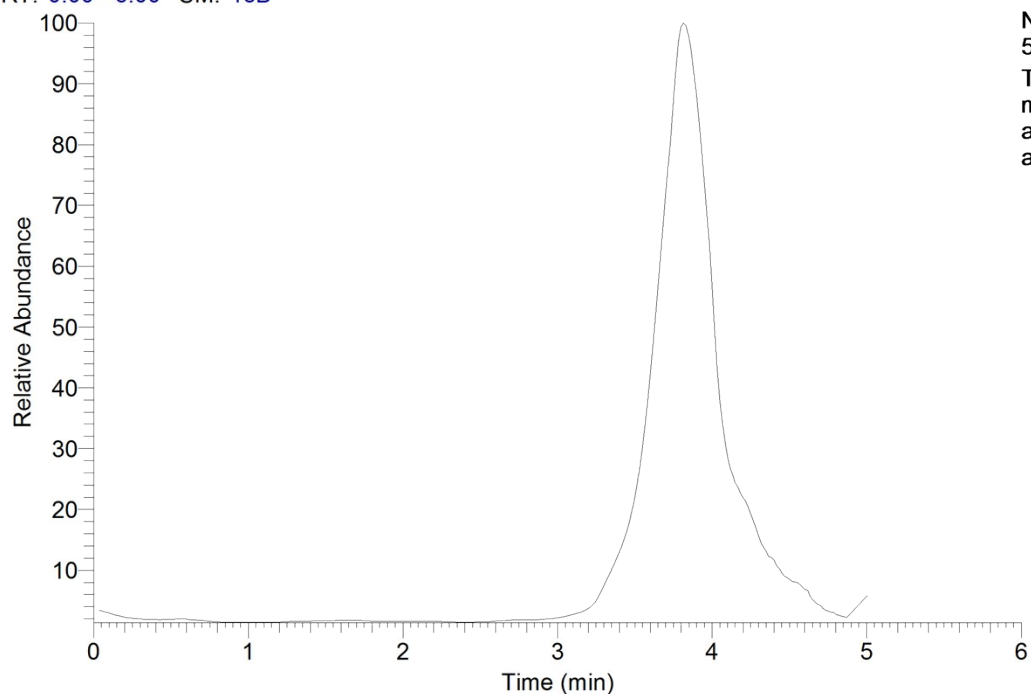


^1H NMR OF 10c



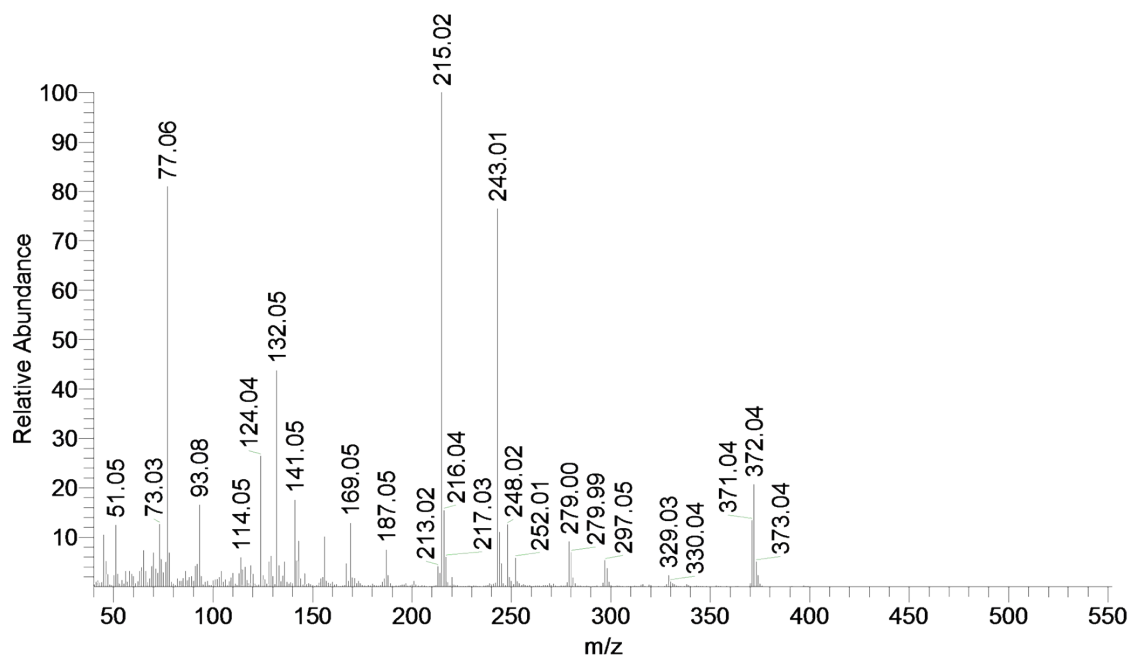
Expanded ^1H NMR OF 10c

RT: 0.00 - 6.00 SM: 15B



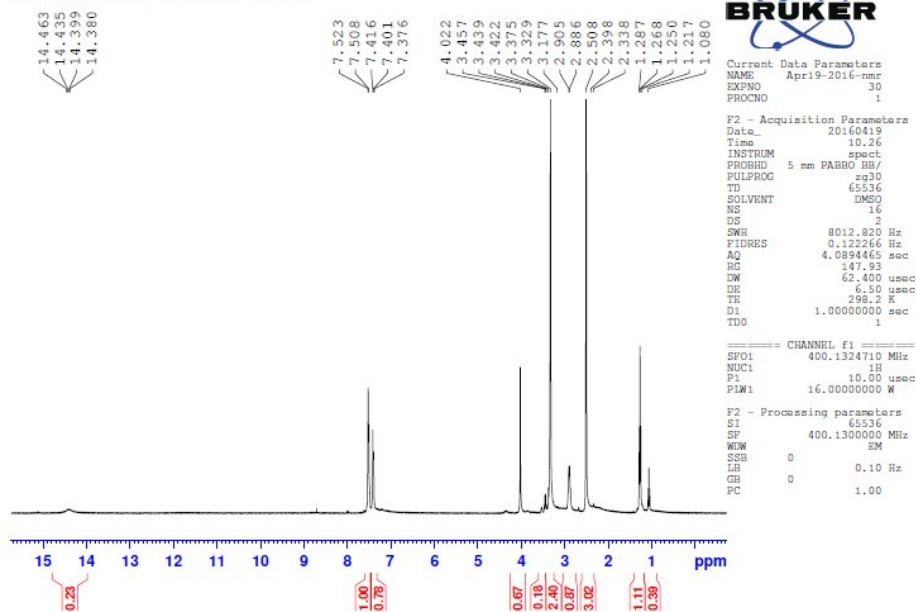
NL:
5.06E8
TIC MS
mohamed-
abd-
alsalam-10

mohamed-abd-alsalam-10 #205-252 RT: 3.45-4.23 AV: 48 NL: 3.05E7
T: {0,0} + c EI Full ms [40.00-1000.00]



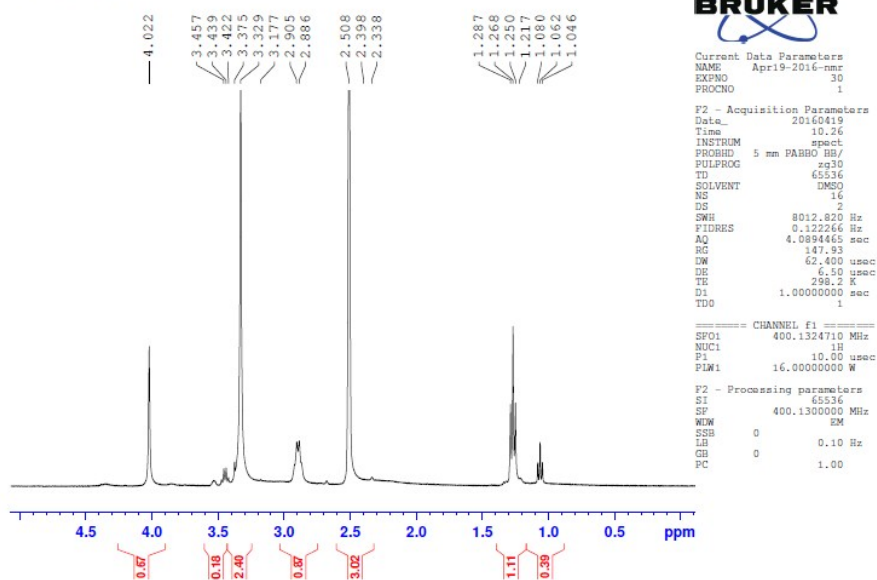
Mass spectrum of 12

M.ABDELSALAM-10
PROTON_BSU DMSO (C:\data) nmr 14



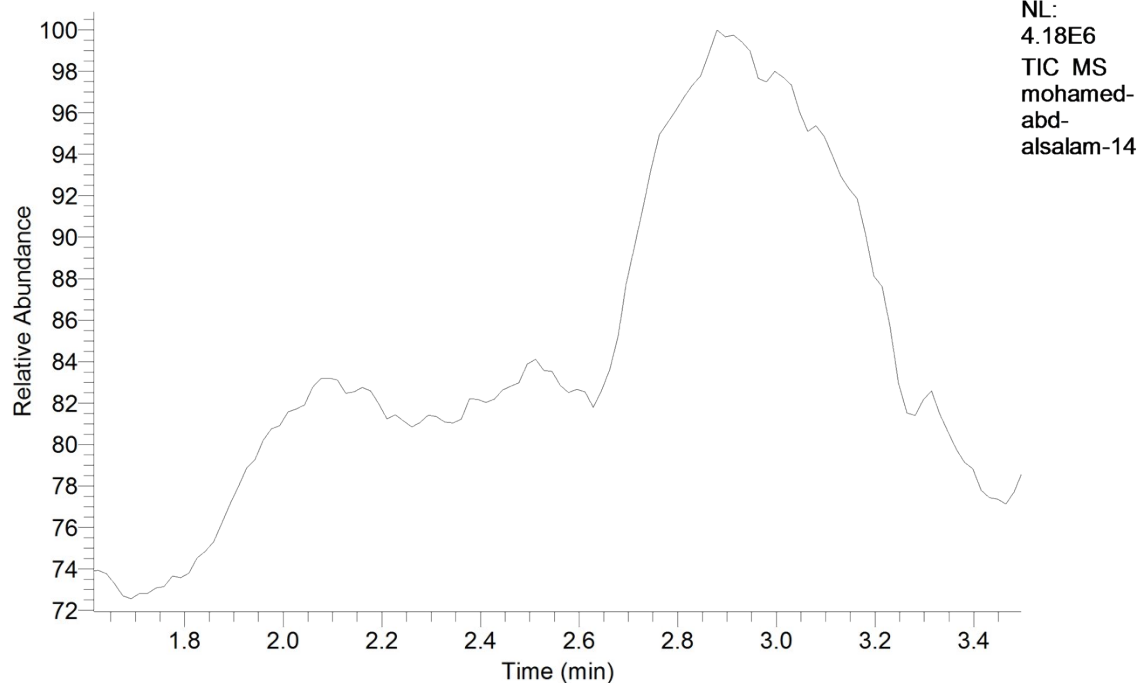
¹H NMR OF 12

M.ABDELSALAM-10
PROTON_BSU DMSO (C:\data) nmr 14

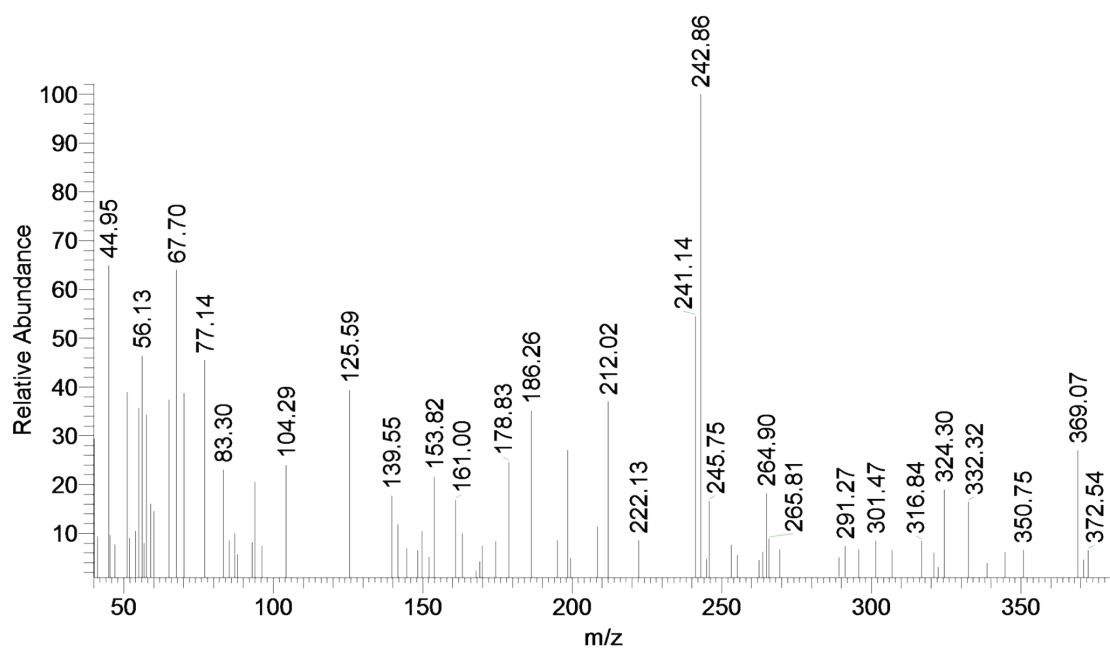


Expanded ¹H NMR OF 12

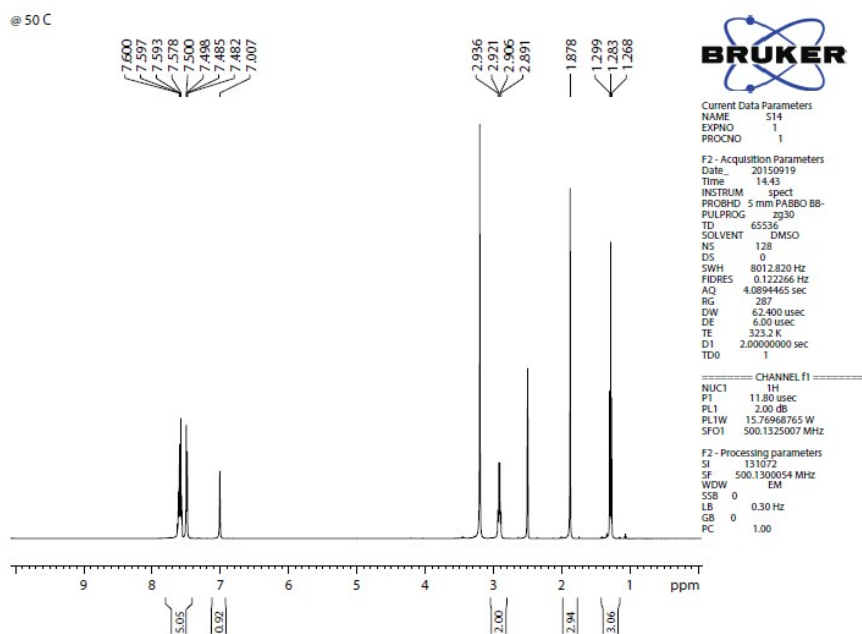
RT: 1.62 - 3.50 SM: 15B



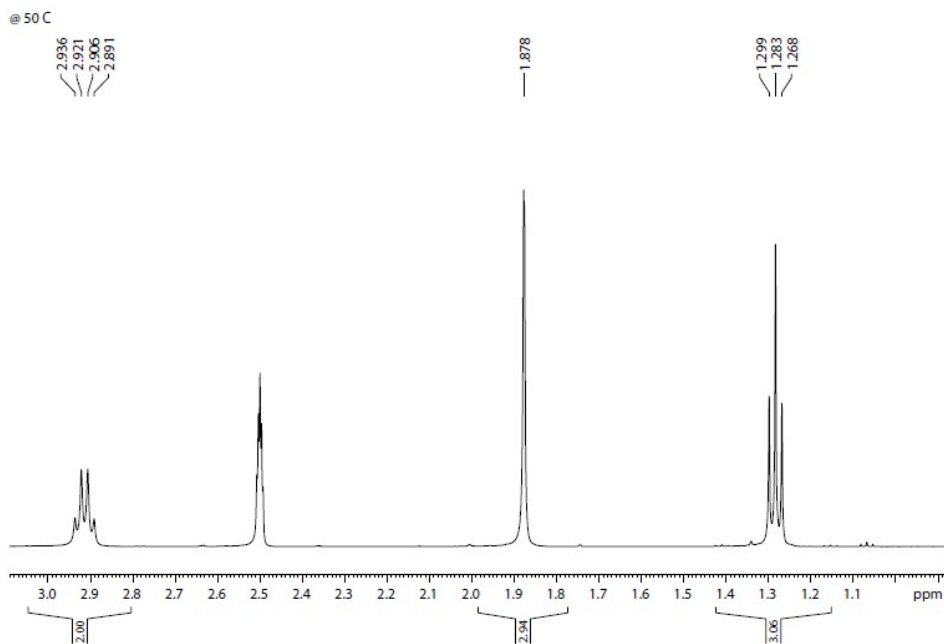
mohamed-abd-alsalam-14 #143 RT: 2.41 AV: 1 NL: 1.38E3
T: {0,0} + c EI Full ms [40.00-1000.00]



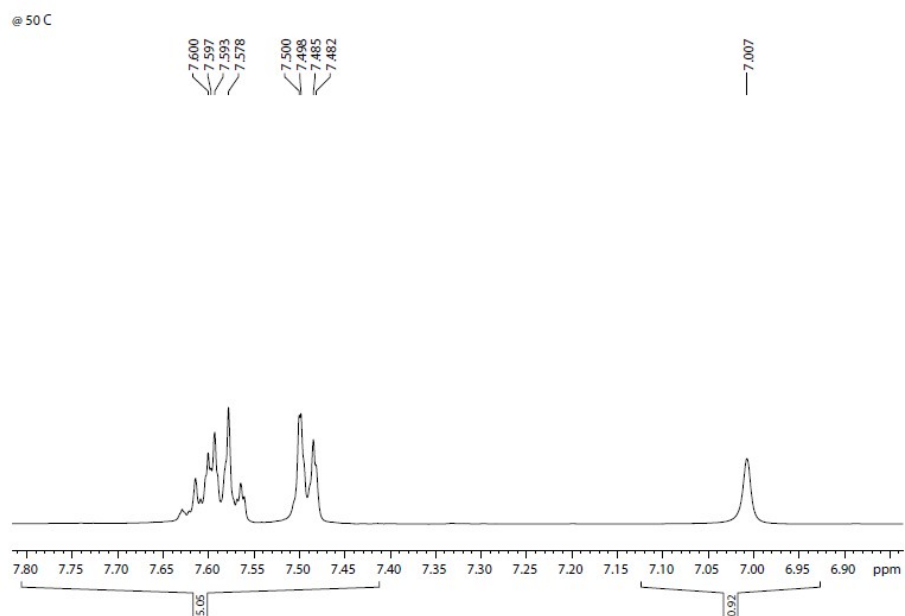
Mass spectrum of 13a



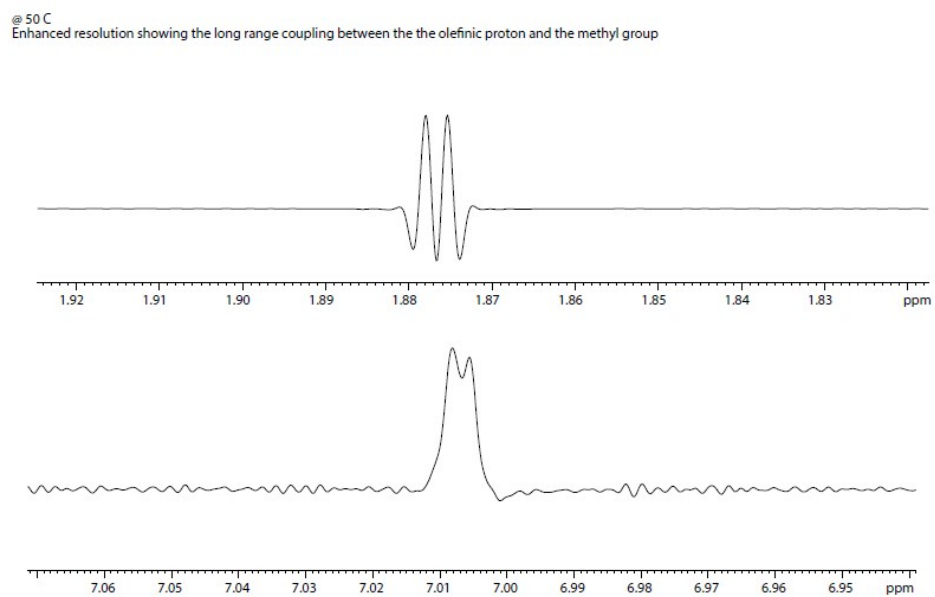
^1H NMR OF 13a



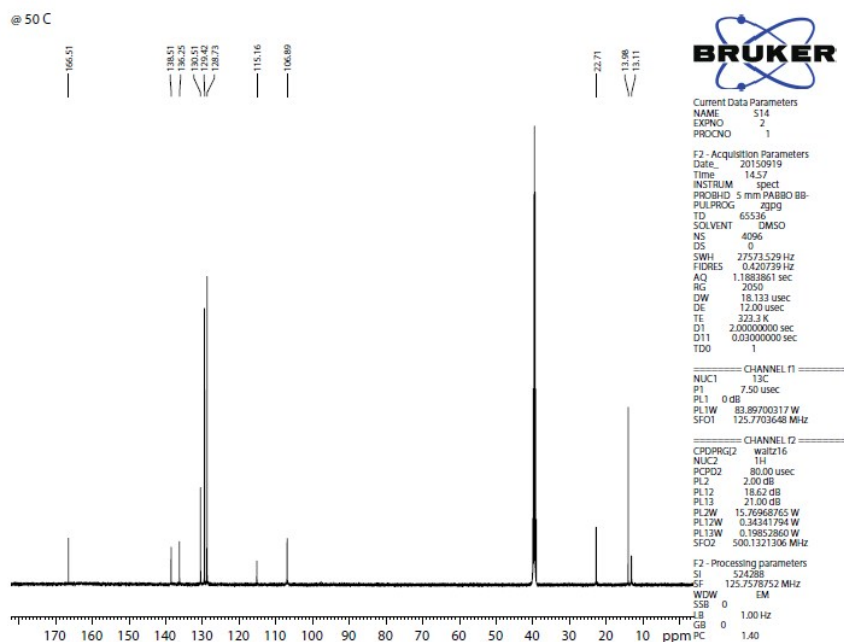
Expanded ^1H NMR OF 13a



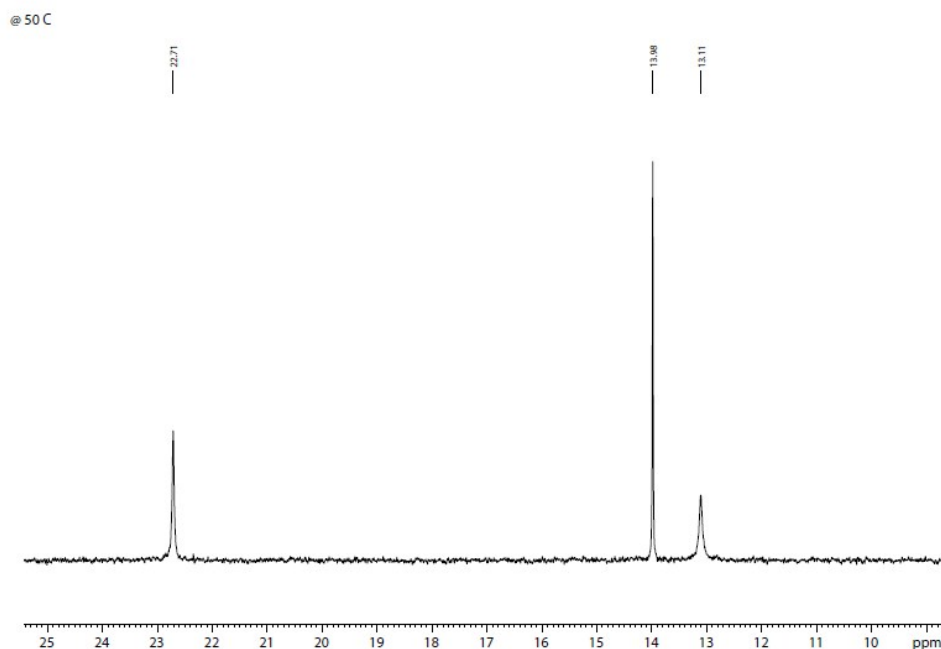
Expanded ^1H NMR OF 13a



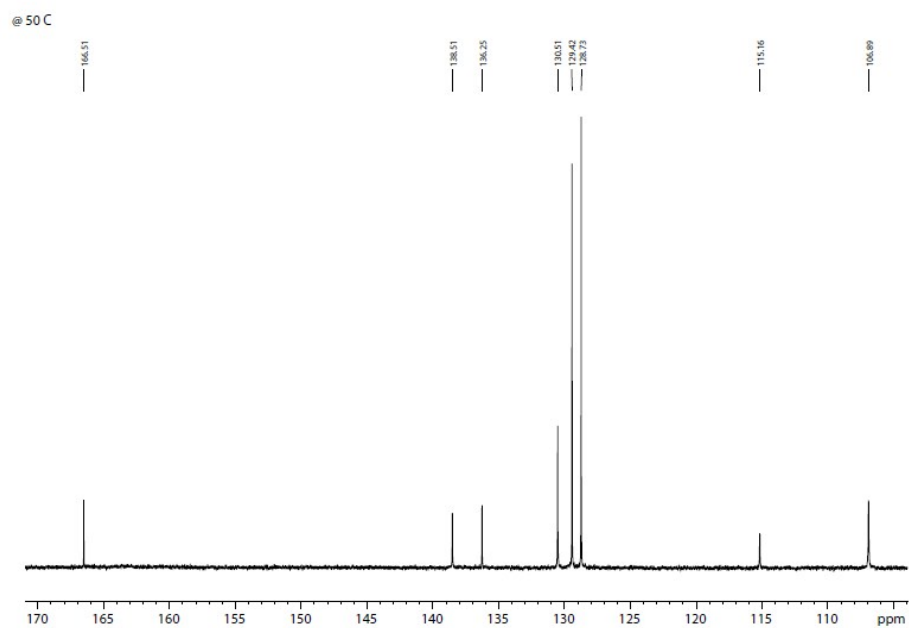
Me ER OF 13a



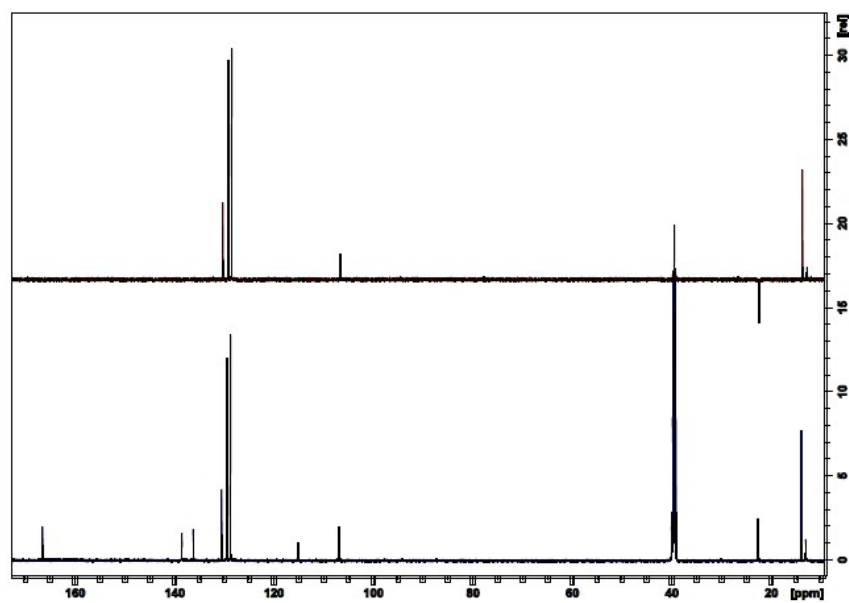
^{13}C NMR OF 13a



Expanded ^{13}C NMR OF 13a

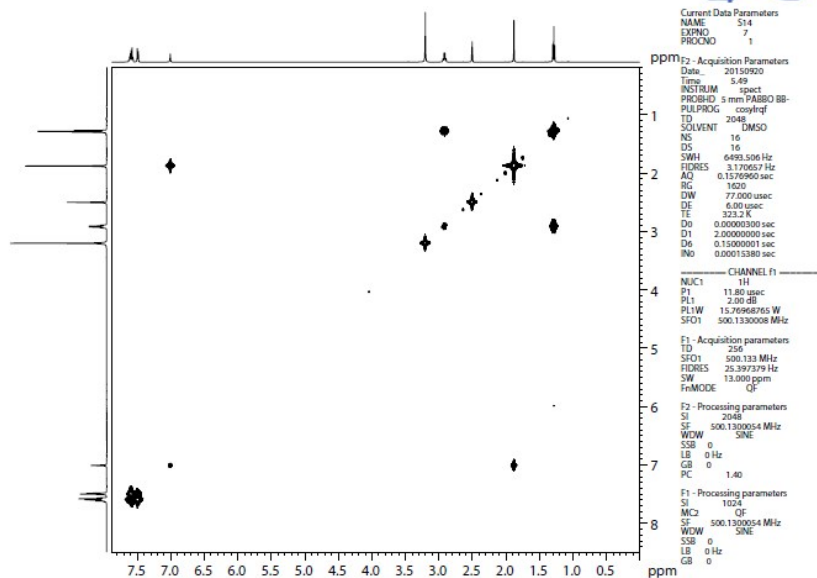


Expanded ^{13}C NMR OF 13a



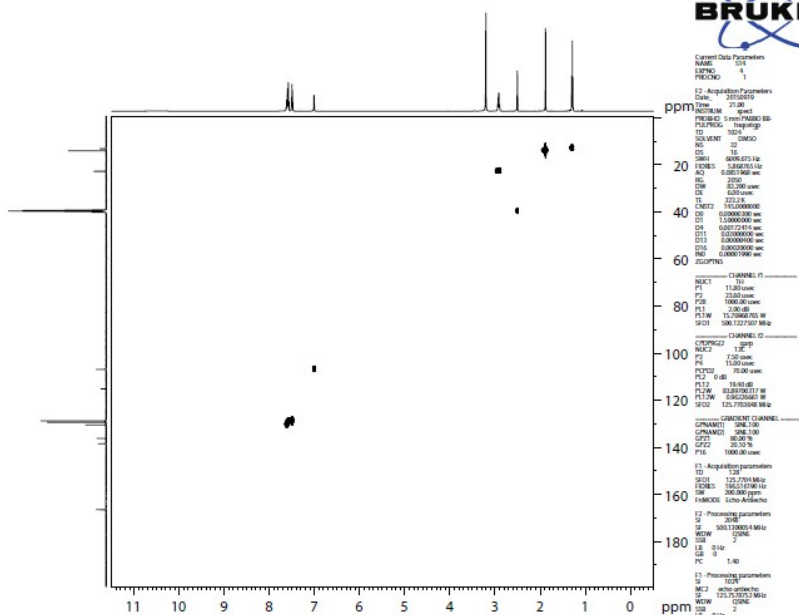
DEPT ^{13}C NMR OF 13a

@ 50 C
Long range coupling is detected



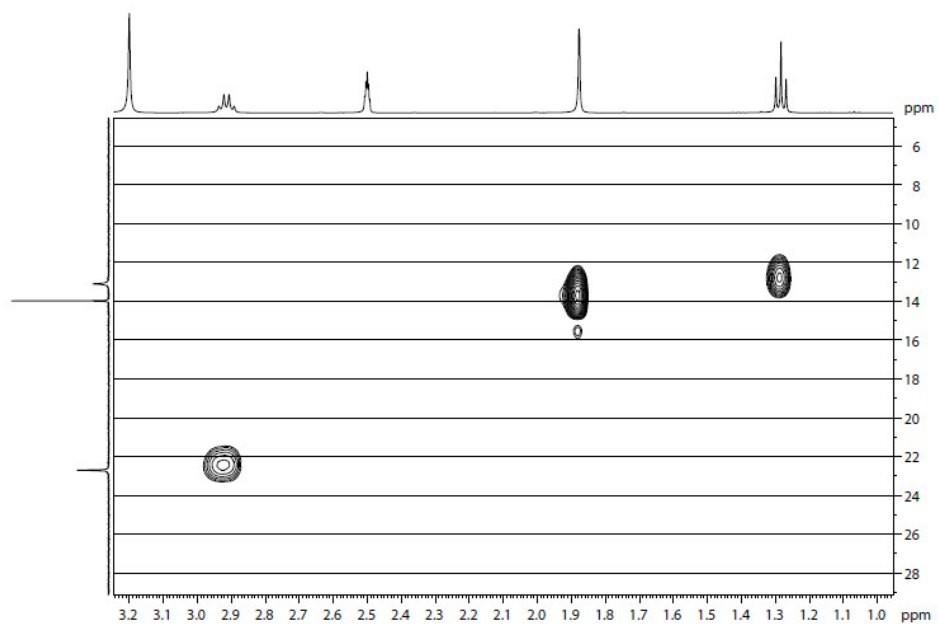
H-H COSY OF 13a

@ 50 C



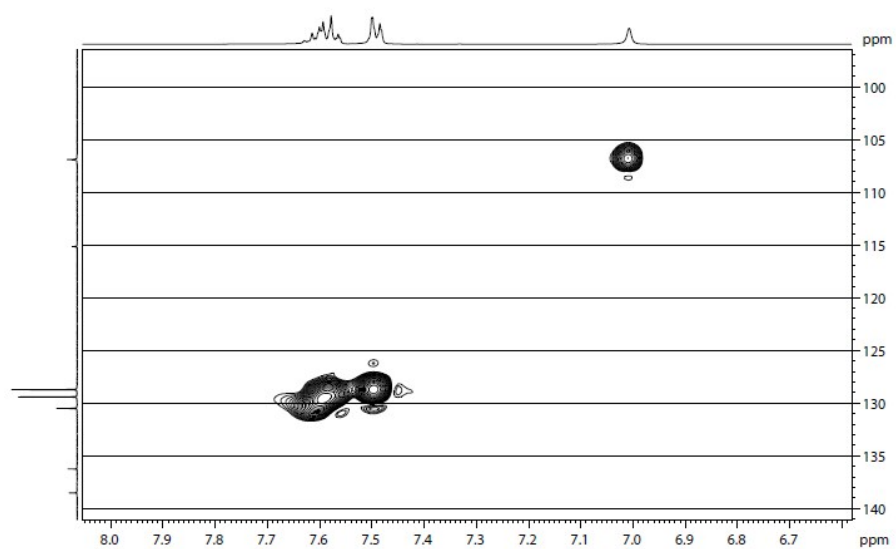
HSQC OF 13a

@ 50 C



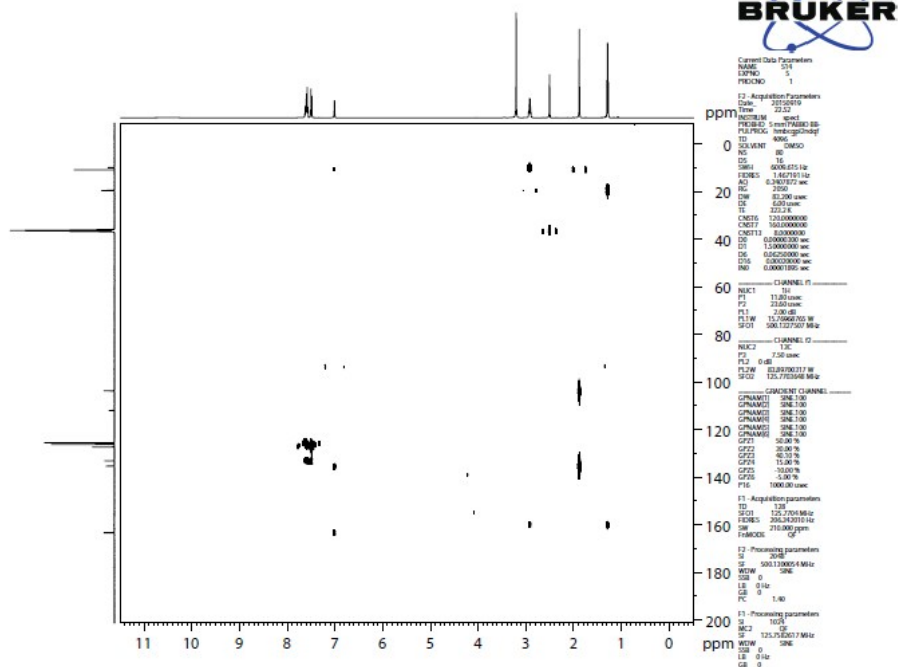
Expanded HSQC OF 13a

@ 50 C



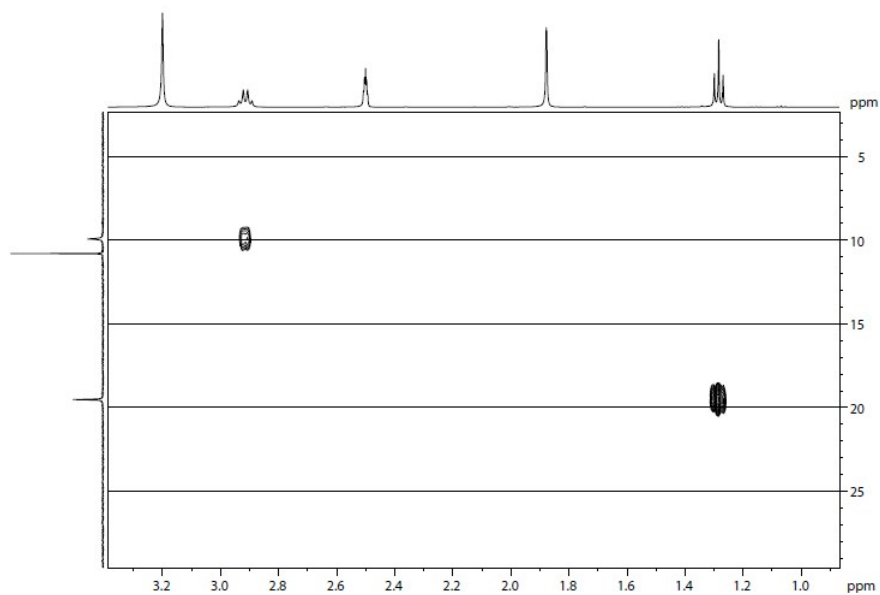
Expanded HSQC OF 13a

@ 50 C



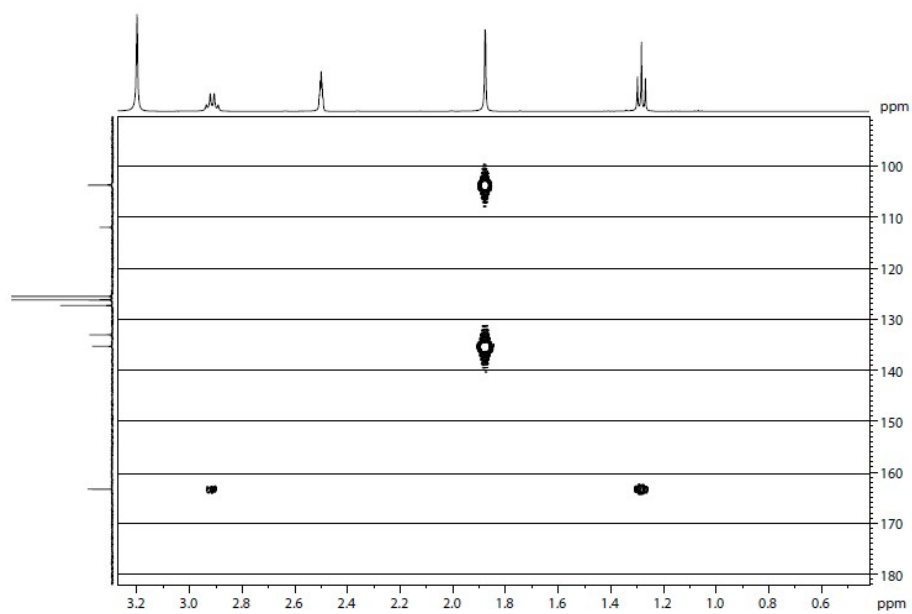
HMBC OF 13a

@ 50 C



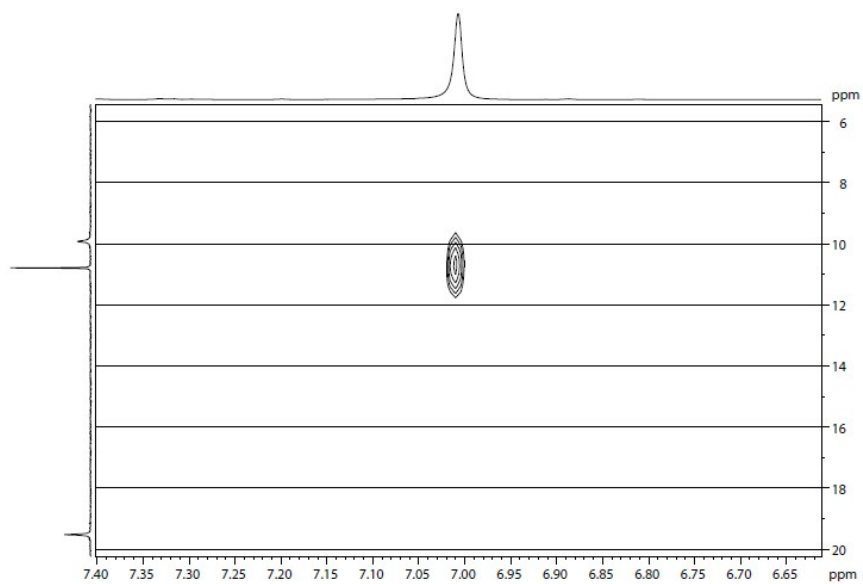
Expanded HMBC OF 13a

@ 50 C



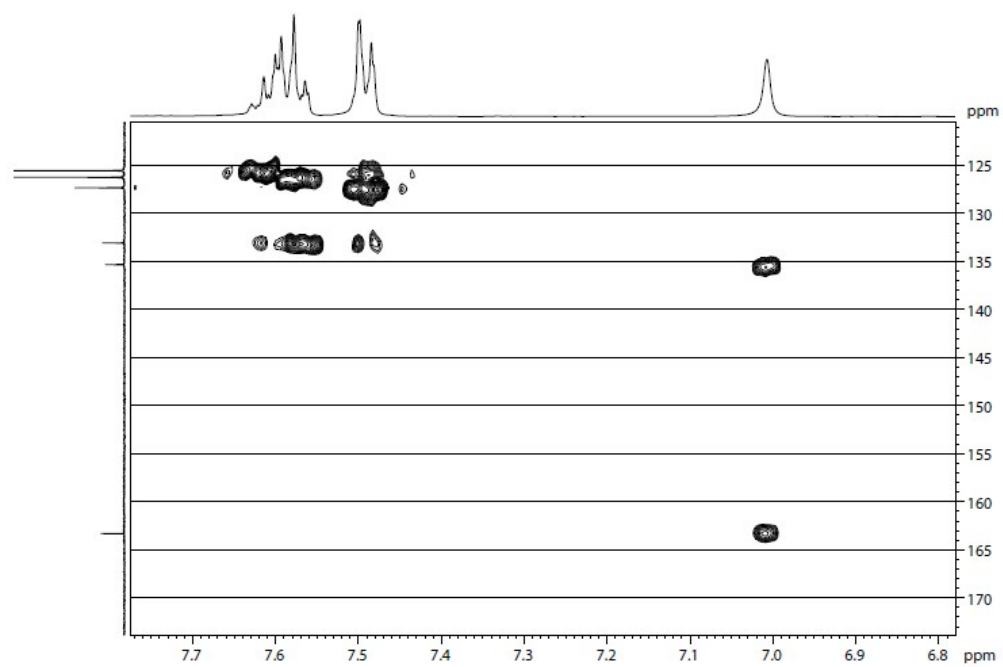
Expanded HMBC OF 13a

@ 50 C



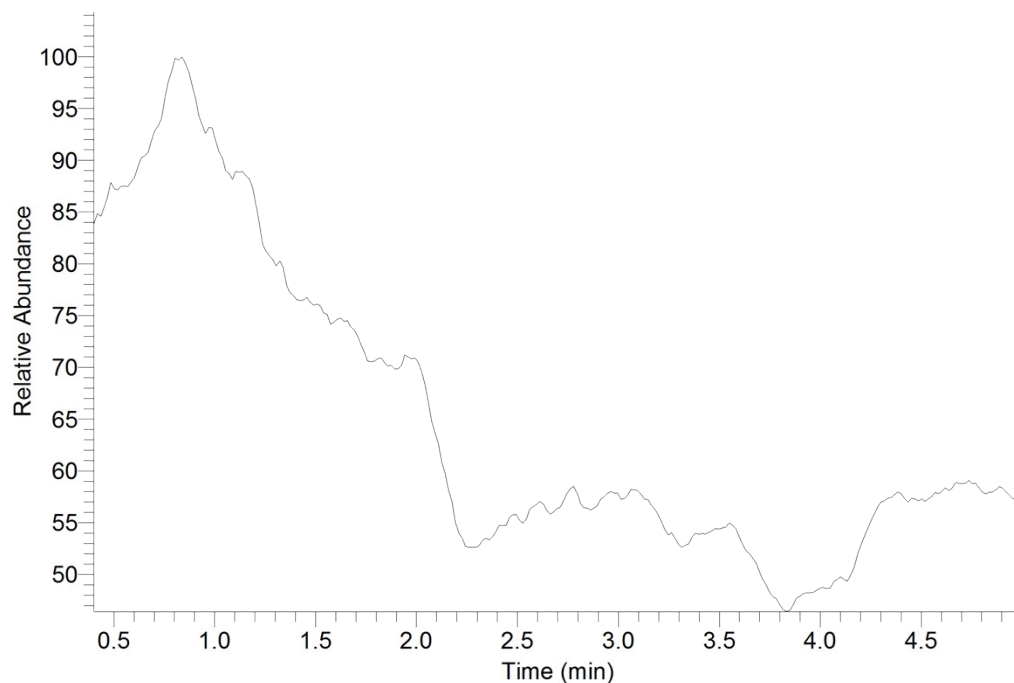
Expanded HMBC OF 13a

@ 50 C



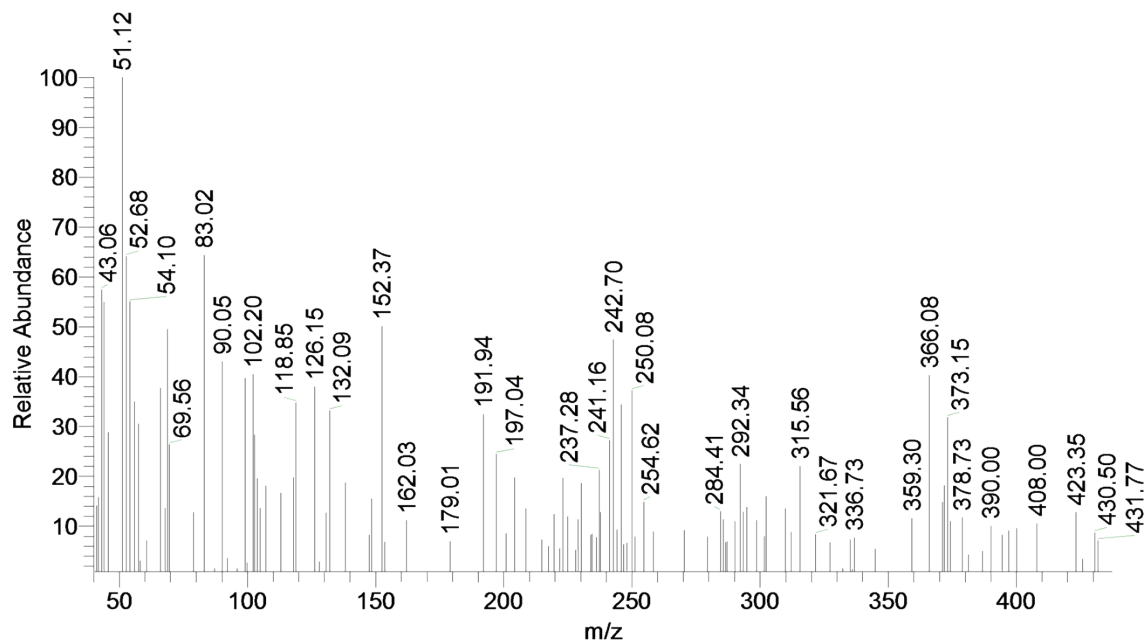
Expanded HMBC OF 13a

RT: 0.40 - 5.00 SM: 15B

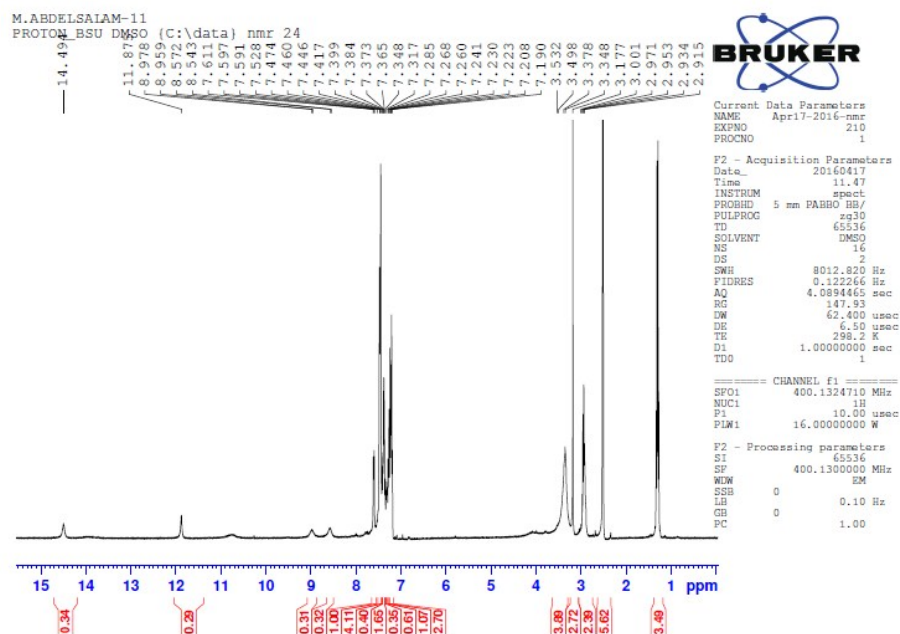


NL:
2.34E7
TIC MS
mohamed-
abd-
alsalam-11

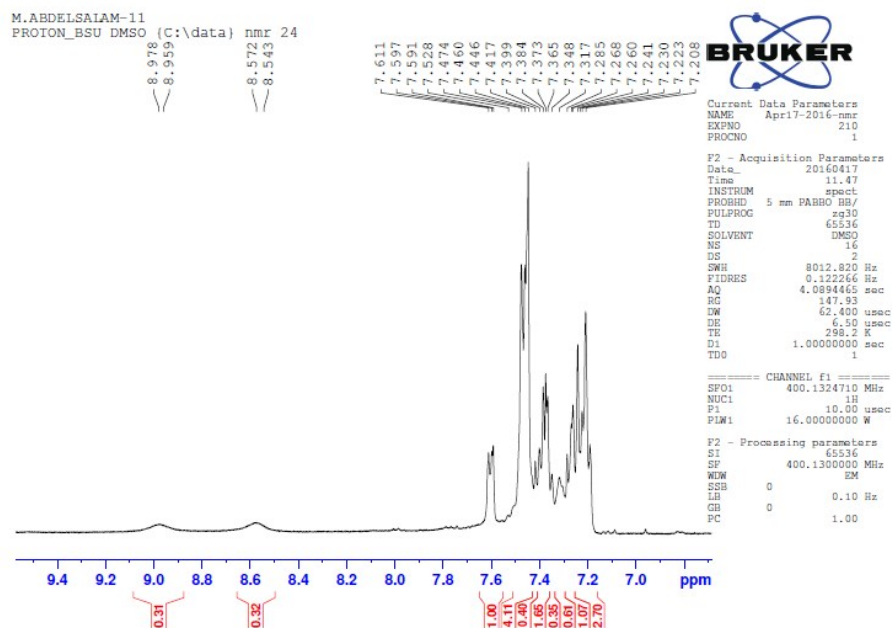
mohamed-abd-alsalam-11 #116 RT: 1.96 AV: 1 SB: 2 1.67, 1.71 NL: 1.14E3
T: {0,0} + c EI Full ms [40.00-1000.00]



Mass spectrum of 13b

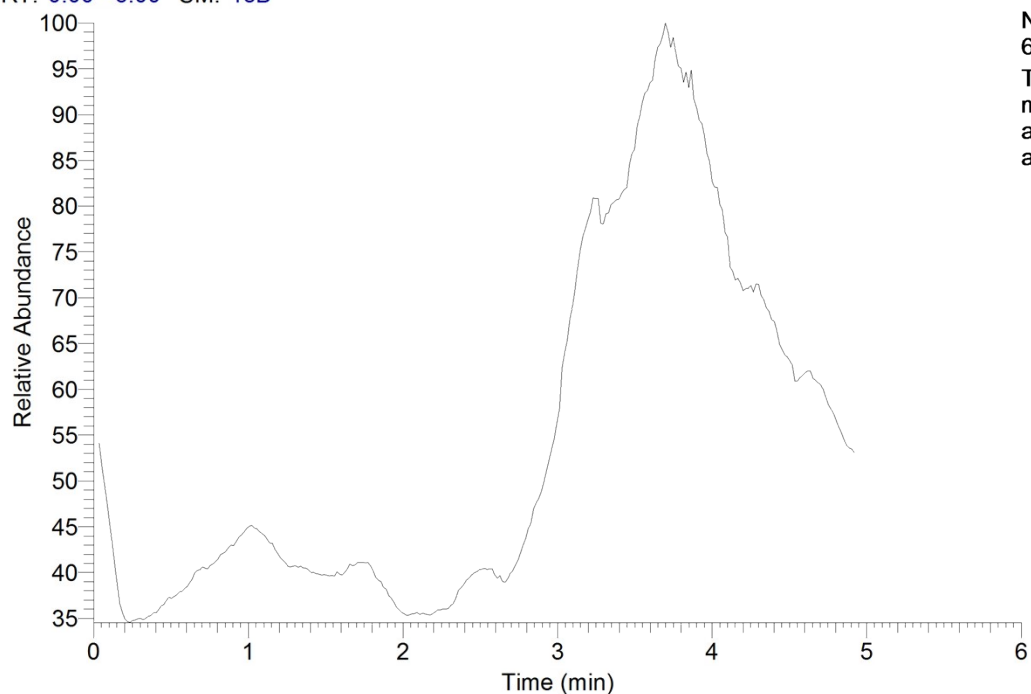


^1H NMR OF 13b



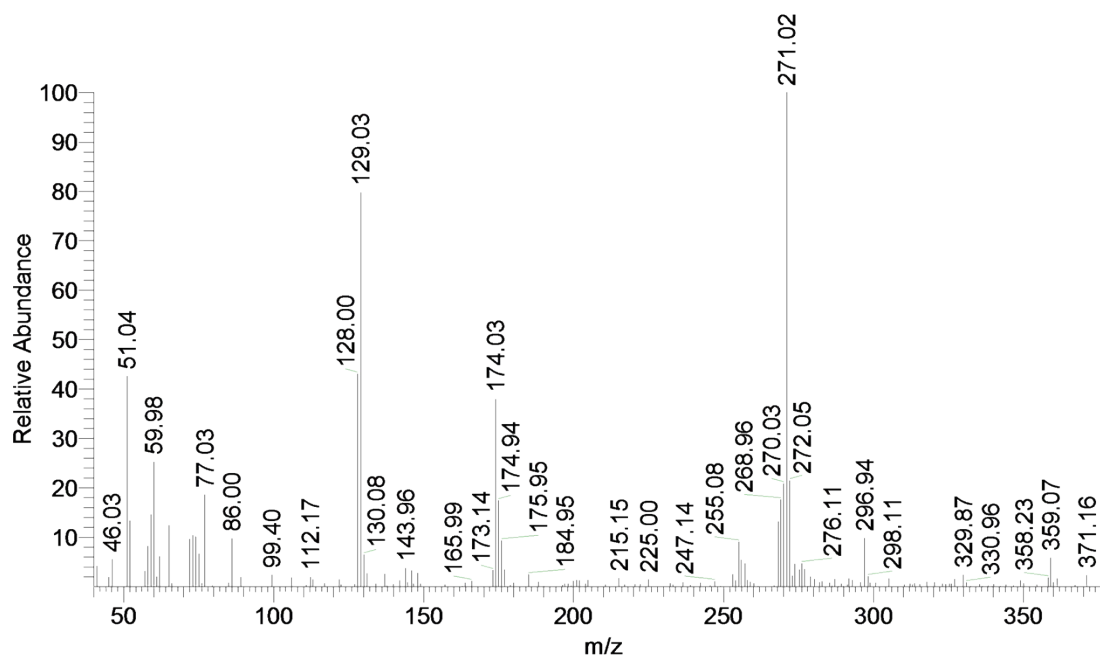
Expanded ^1H NMR OF 13b

RT: 0.00 - 6.00 SM: 15B



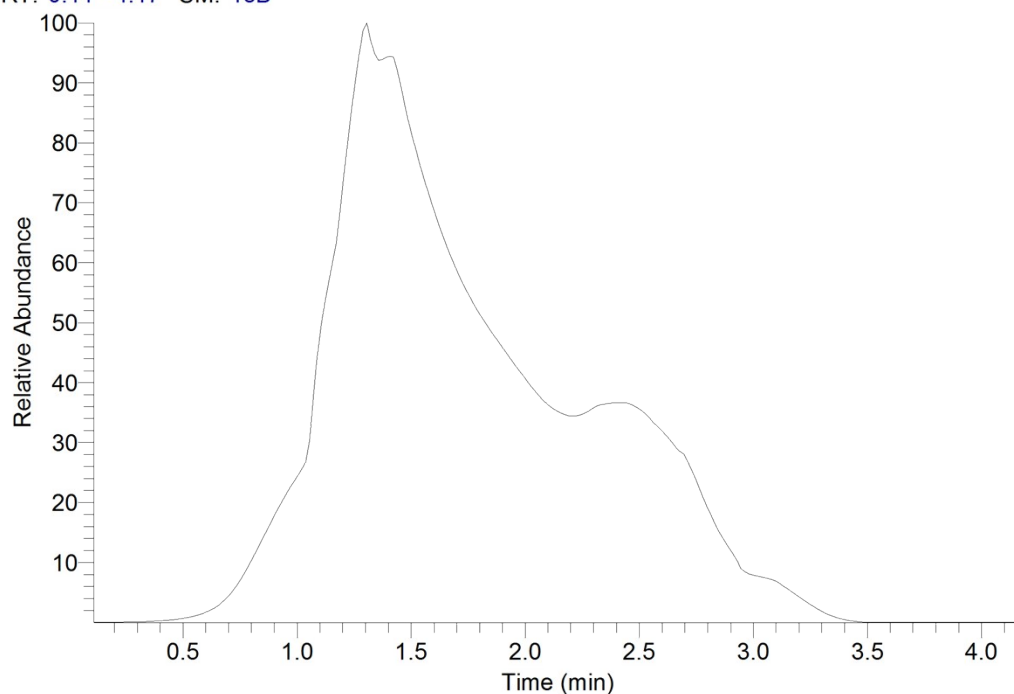
NL:
6.57E6
TIC MS
mohamed-
abd-
alsalam-13

mohamed-abd-alsalam-13 #205 RT: 3.45 AV: 1 SB: 2 3.36 , 3.40 NL: 6.12E4
T: {0,0} + c EI Full ms [40.00-1000.00]



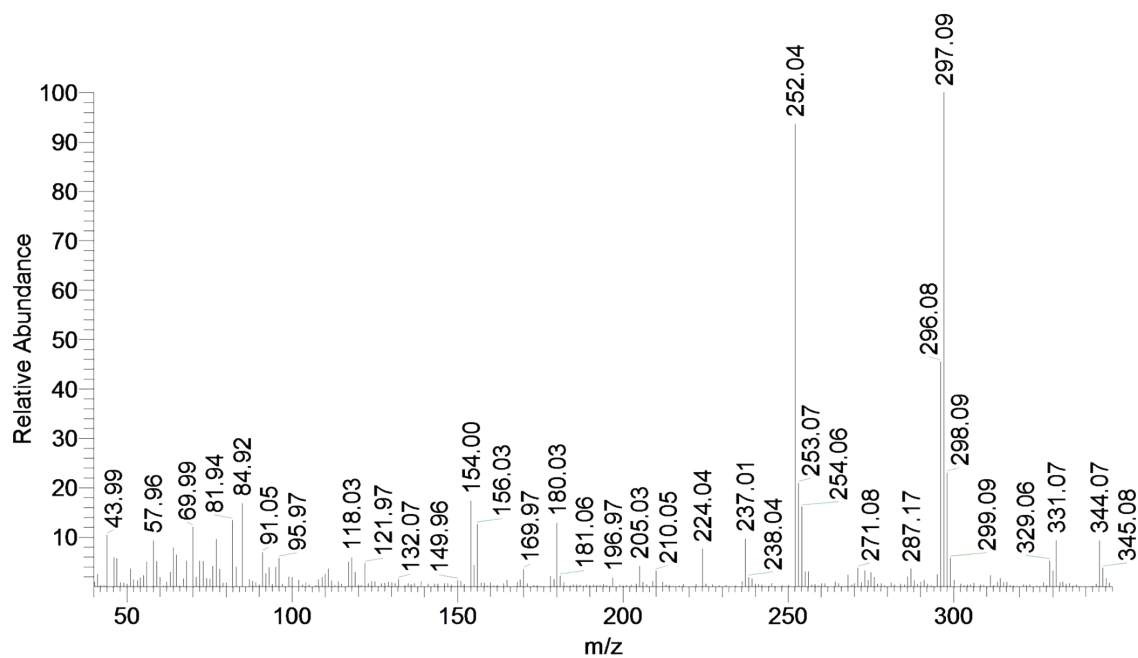
Mass spectrum of 14

RT: 0.11 - 4.17 SM: 15B

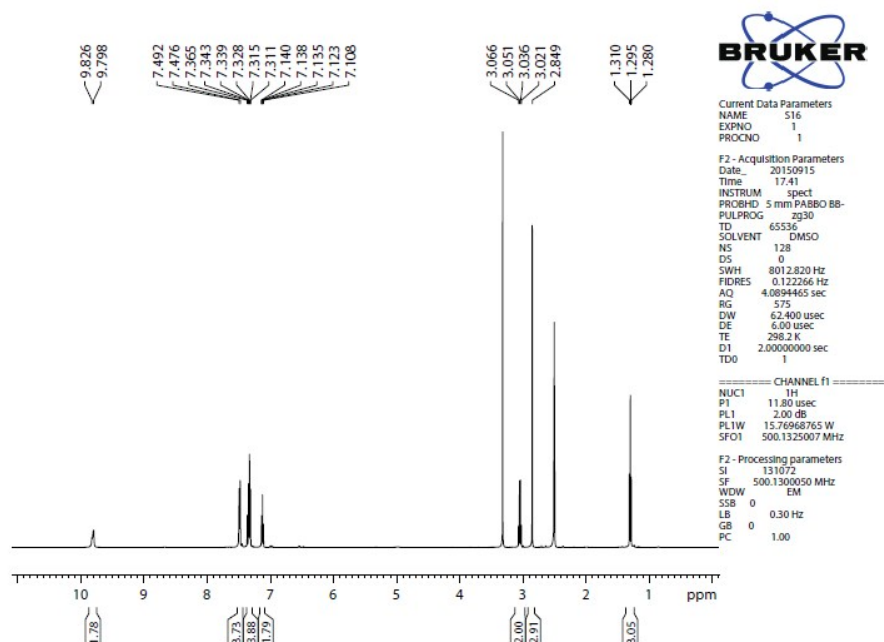


NL:
1.19E9
TIC MS
MOHAMED
-
ABDELSAL
AM-16

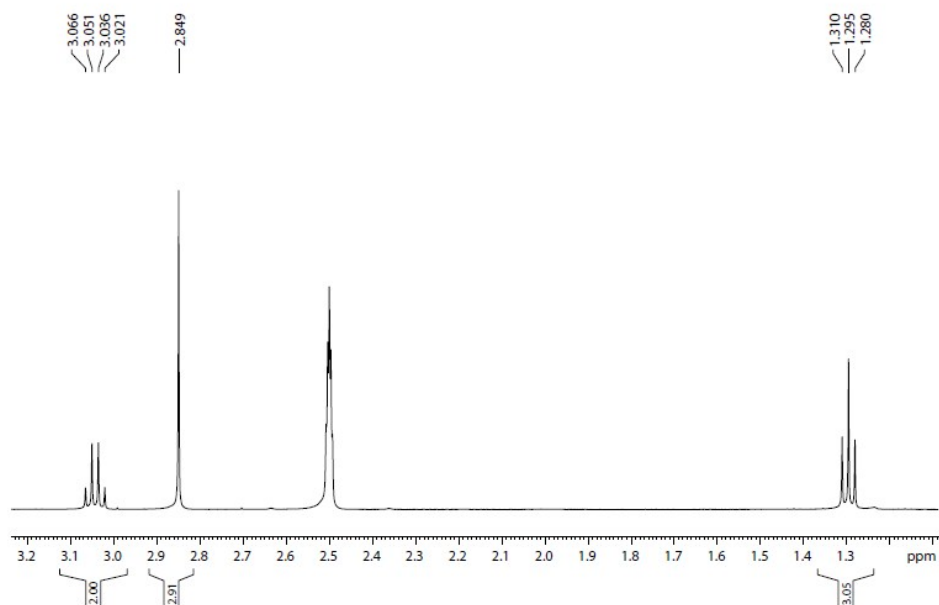
MOHAMED-ABDELSALAM-16 #177 RT: 2.98 AV: 1 SB: 2 2.96 , 2.98 NL: 8.12E5
T: {0,0} + c EI Full ms [40.00-1000.00]



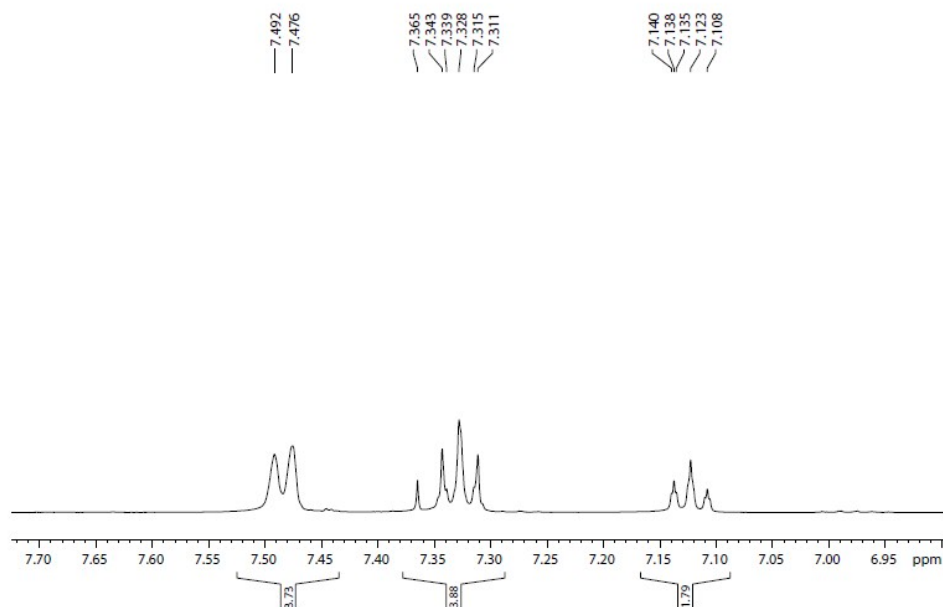
Mass spectrum of 15



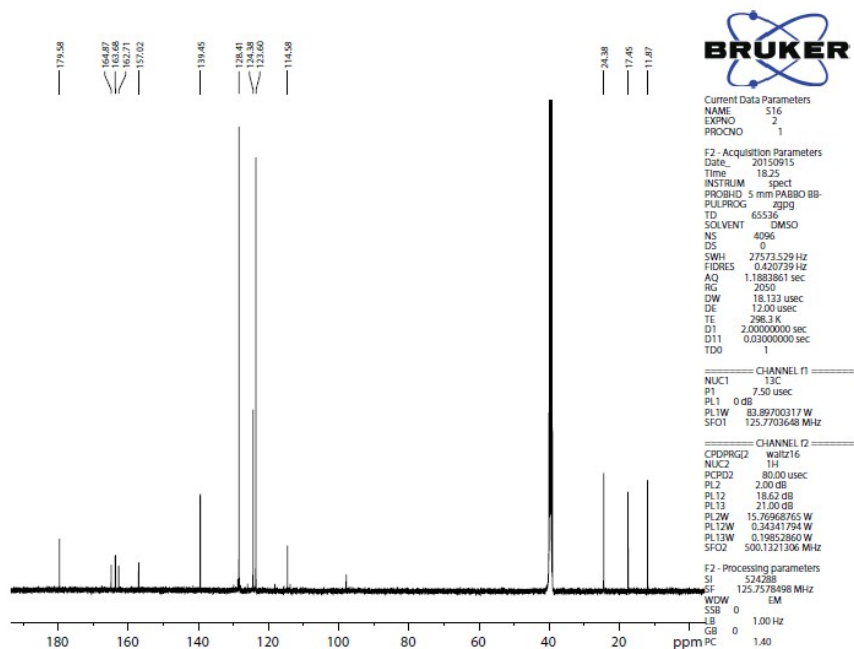
¹H NMR OF 15



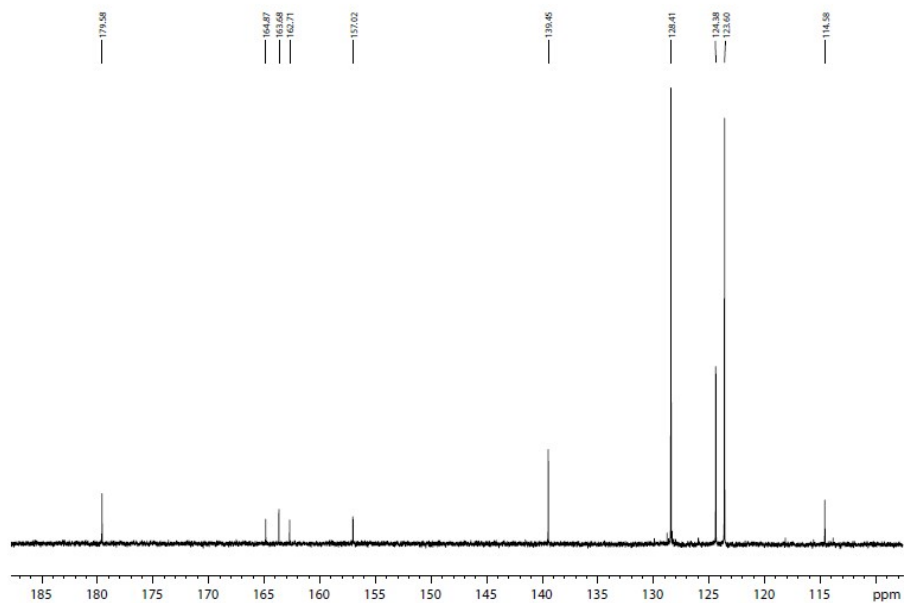
Expanded ¹H NMR OF 15



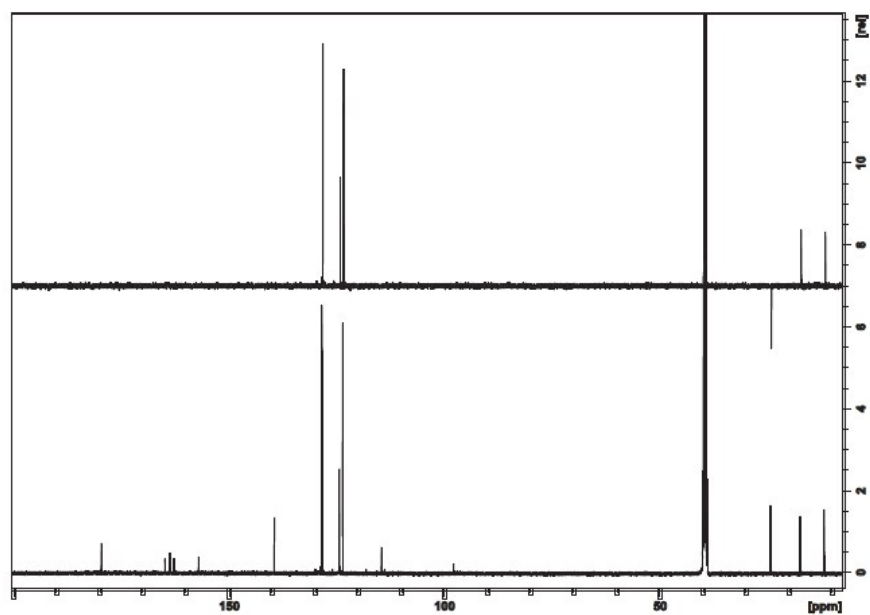
Expanded ^1H NMR OF 15



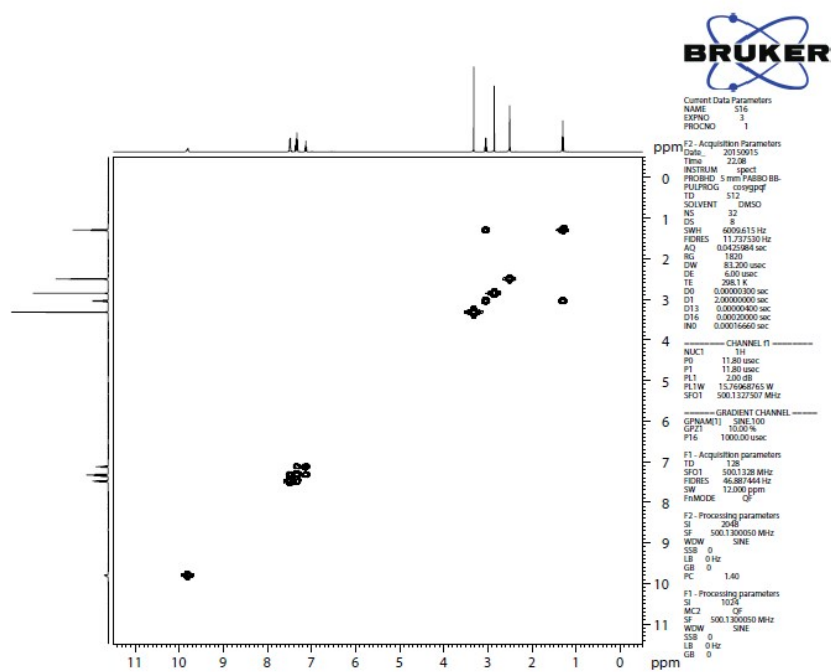
^{13}C NMR OF 15



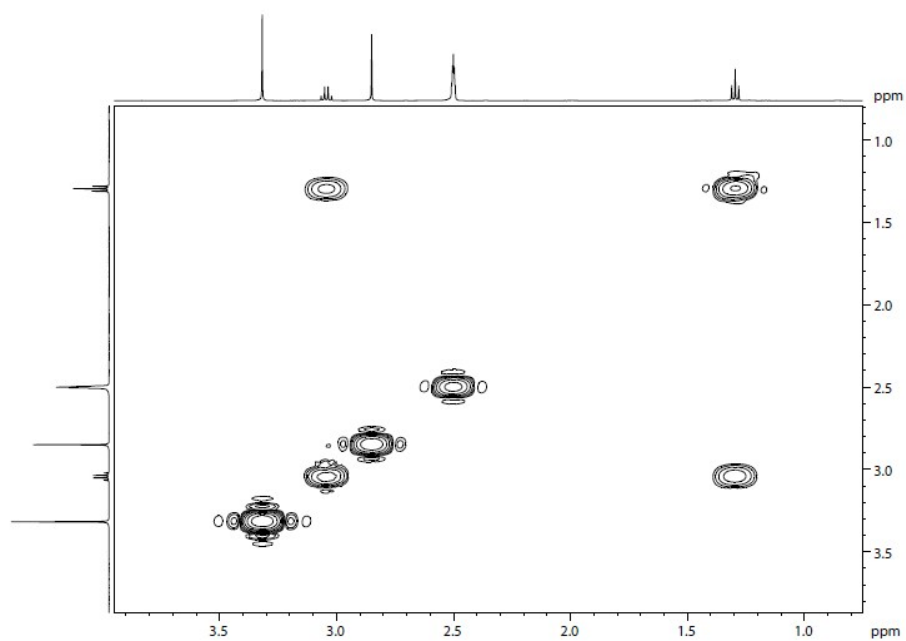
Expanded ¹³C NMR OF 15



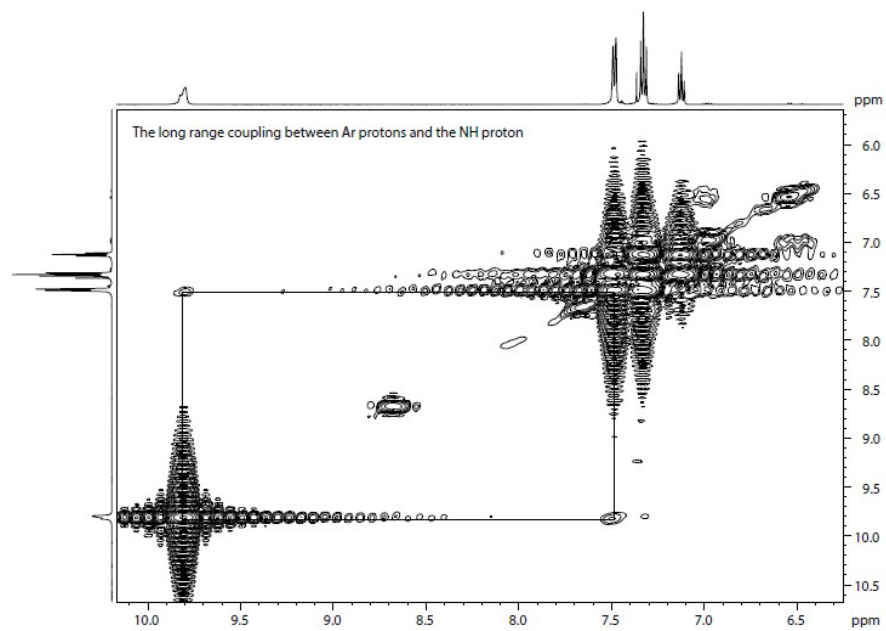
DEPT ¹³C NMR OF 15



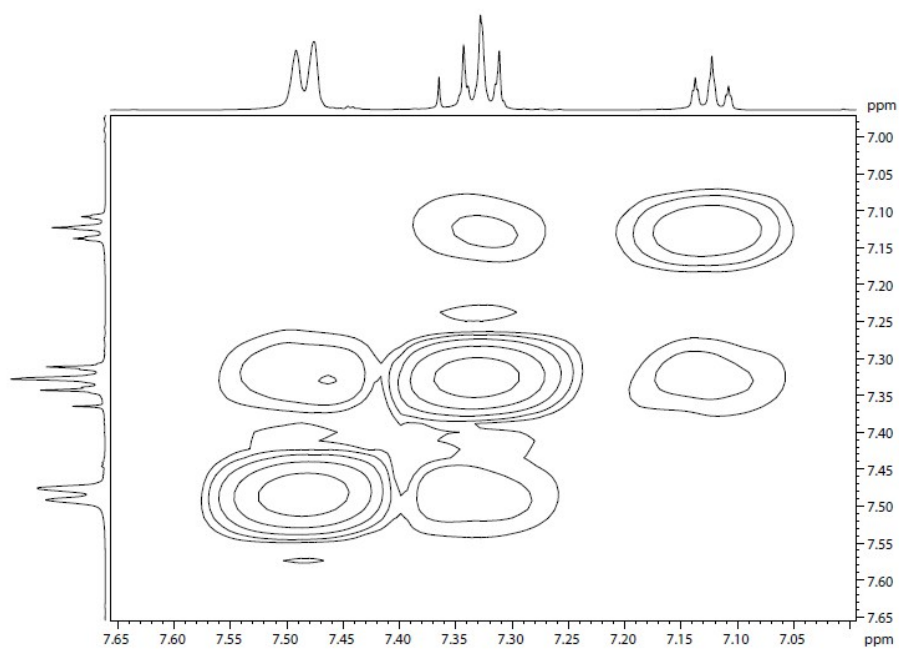
H-H COSY OF 15



Expanded H-H COSY OF 15



Expanded H-H COSY OF 15



Expanded H-H COSY OF 15



```

Current Data Parameters
NAME          576
EXPNO        4
PROCNO       1

F2 - Acquisition Parameters
Date_         20150516
Time          0.20
INSTRUM       spect
PROBHD40      5mm/PMBO-BB-
PULPROG       zgpg30
TD            32768
SOLVENT       DMSO
NS            32
DS            16
SMBF1         6000.025 kHz
FREQS         5.6261650 GHz
RG            0.0500000 sec
AQ            2.0560
CW            82.2000 usec
DE            6.000000 sec
TE            298.12 K
RG1            1.415000000 sec
D1            0.000000000 sec
D2            1.500000000 sec
D4            0.001724140 sec
D711          0.020000000 sec
D712          0.000000000 sec
D713          0.000000000 sec
D714          0.000000000 sec
D715          0.000019960 sec
ZGPGPRGMS

```

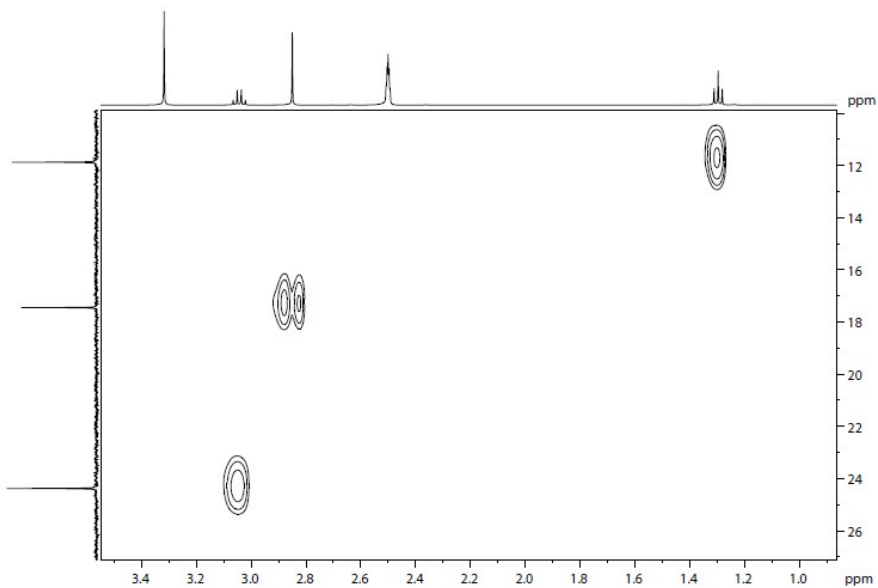
CHANNEL F1	
NUC1	14
P1	11.20 usmc
P2	23.60 usmc
P2B	1000.00 usmc
P1.3	2.00 db
P1.3W	15.70966705 W
SFO1	500.1327507 MHz

CHANNEL F2	
CPDPRG22	gap
NUC2	13C
P2	7.50 usmc
P4	15.00 usmc
PQ102	70.00 usmc
P1.2	0 db
P1.2	16.80 db
P1.2W	83.89700717 W
P1.2ZW	0.94326665 W
SFO2	125.7753548 MHz

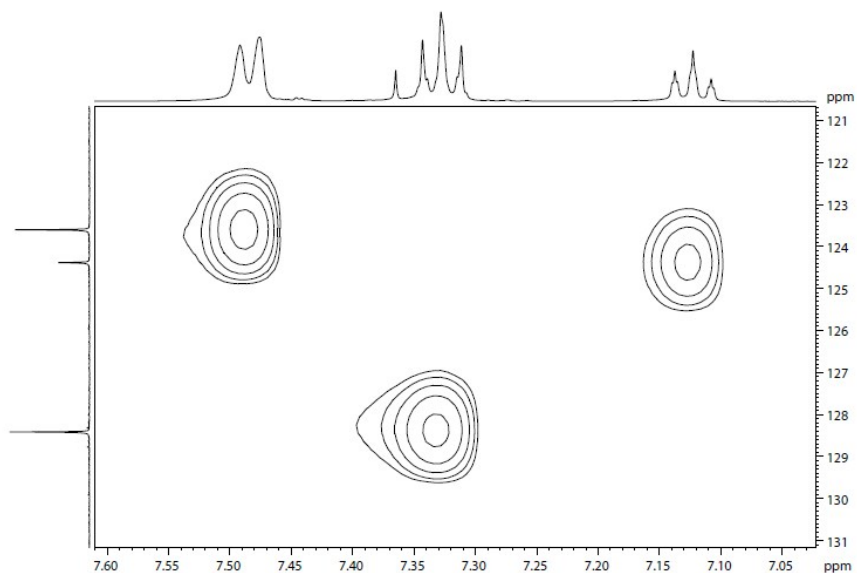
GRADIENT CHANNEL	
GRAM1[1]	SINE 100
GRAM2[2]	SINE 100
GF21	30.30 Hz
GF22	20.30 Hz
PI6	1000.00 usw
F1 - Acquisition parameters	
TD	1.28
SC1	125.7704 MHz
FREQS	294.571690 Hz
SW	300.00 ppm
FMODE	Echo-Attacho
F2 - Processing parameters	
SF	2048
SI	503.120000 MHz
WDW	OSINE
SSB	2
LB	0 Hz
GB	0
HC	1.80

```
F7 - Processing parameters
SI      1024
MC2     echo-antiecho
SF      125.7573468 MHz
WDW      COSINE
SSB      2
LB      0 Hz
GB      0
```

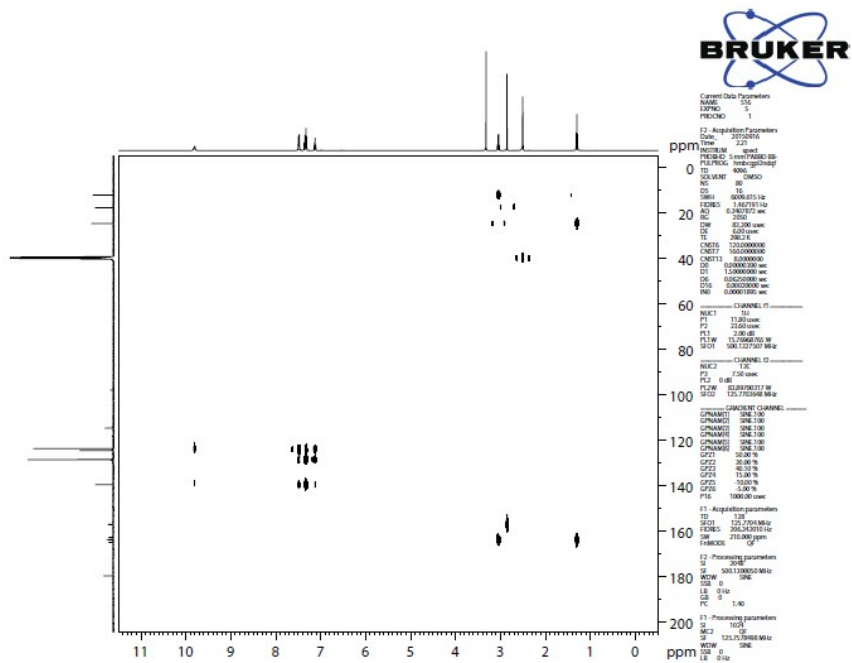
HSQC OF 15



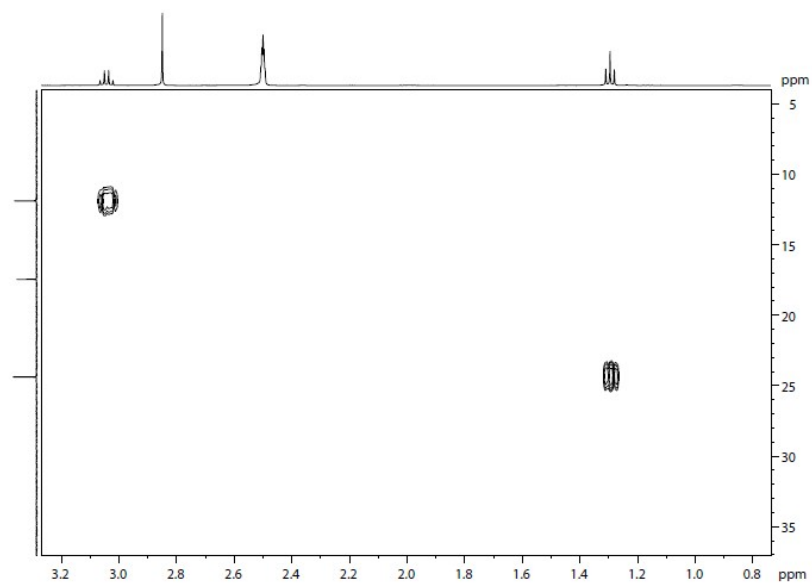
Expanded HSQC OF 15



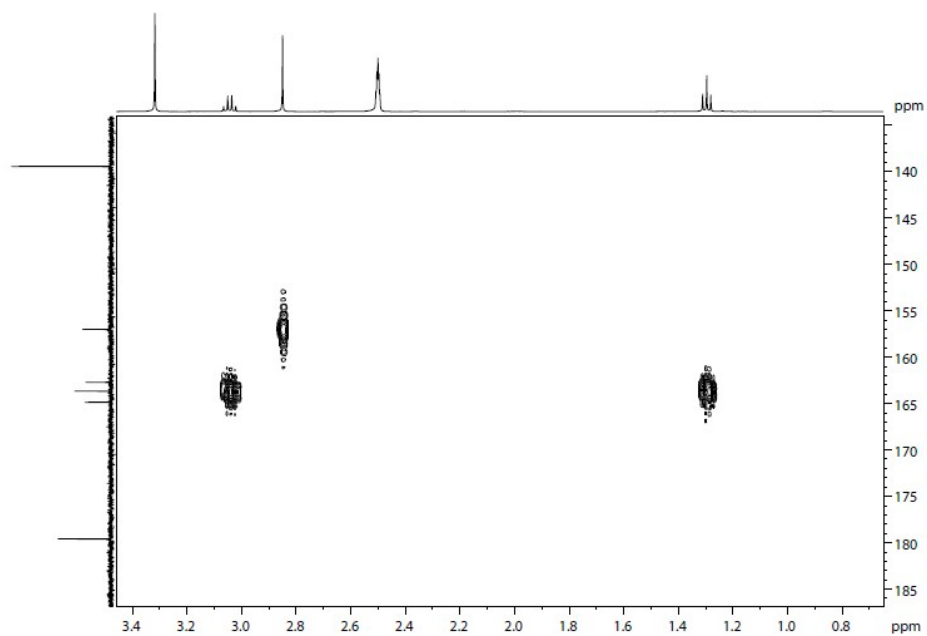
Expanded HSQC OF 15



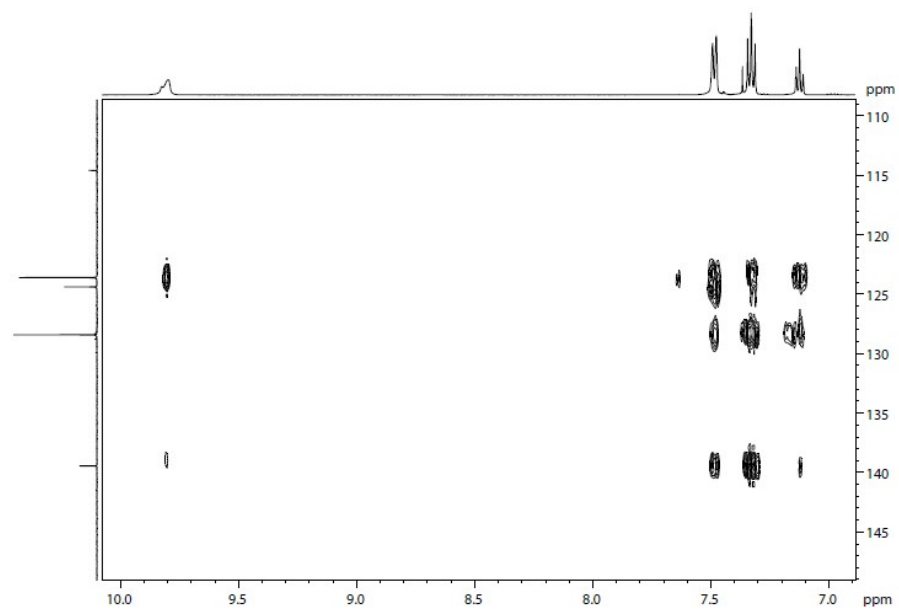
HMBC OF 15



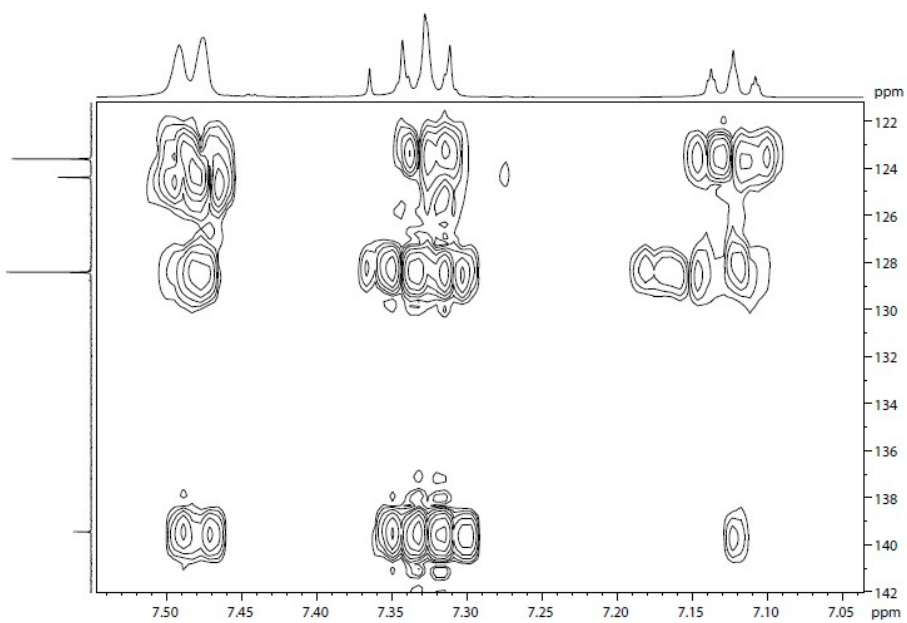
Expanded HMBC OF 15



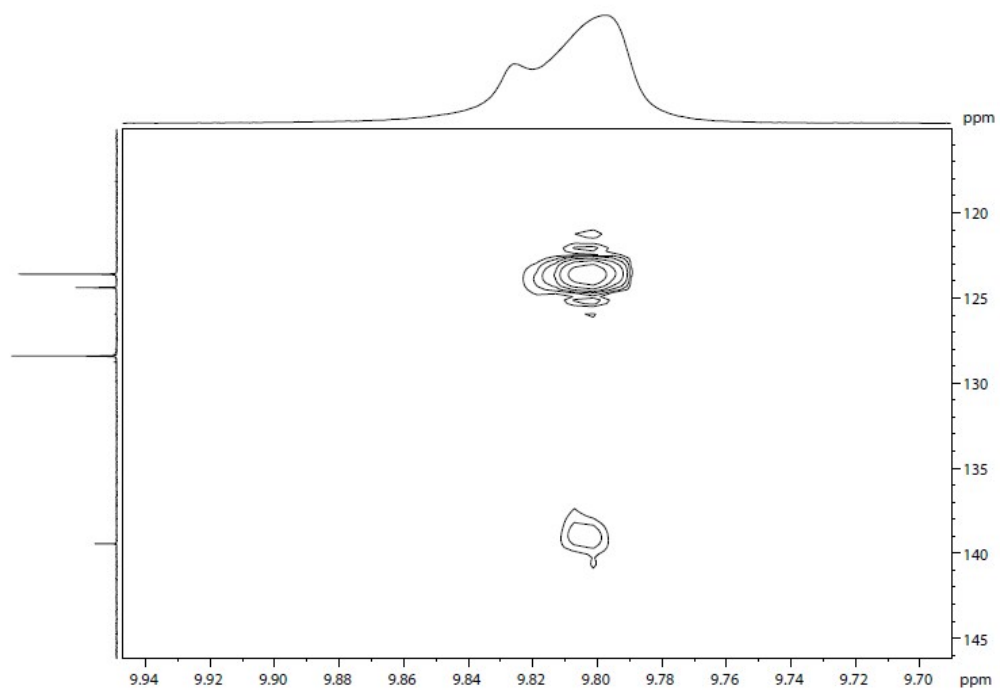
Expanded HMBC OF 15



Expanded HMBC OF 15

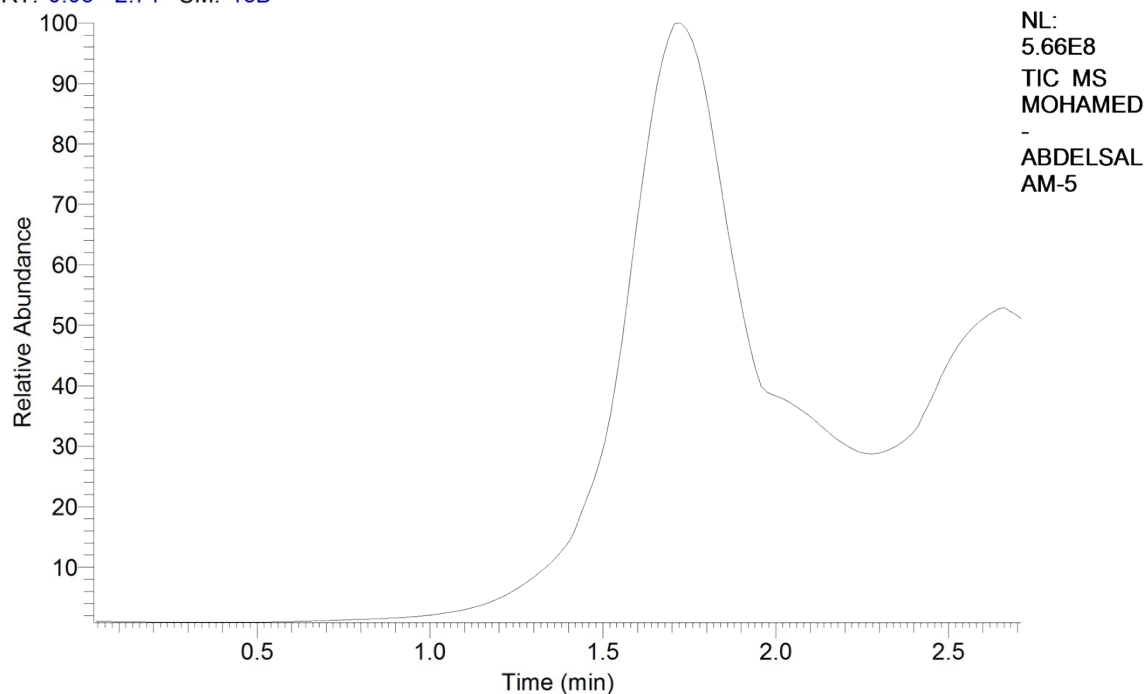


Expanded HMBC OF 15

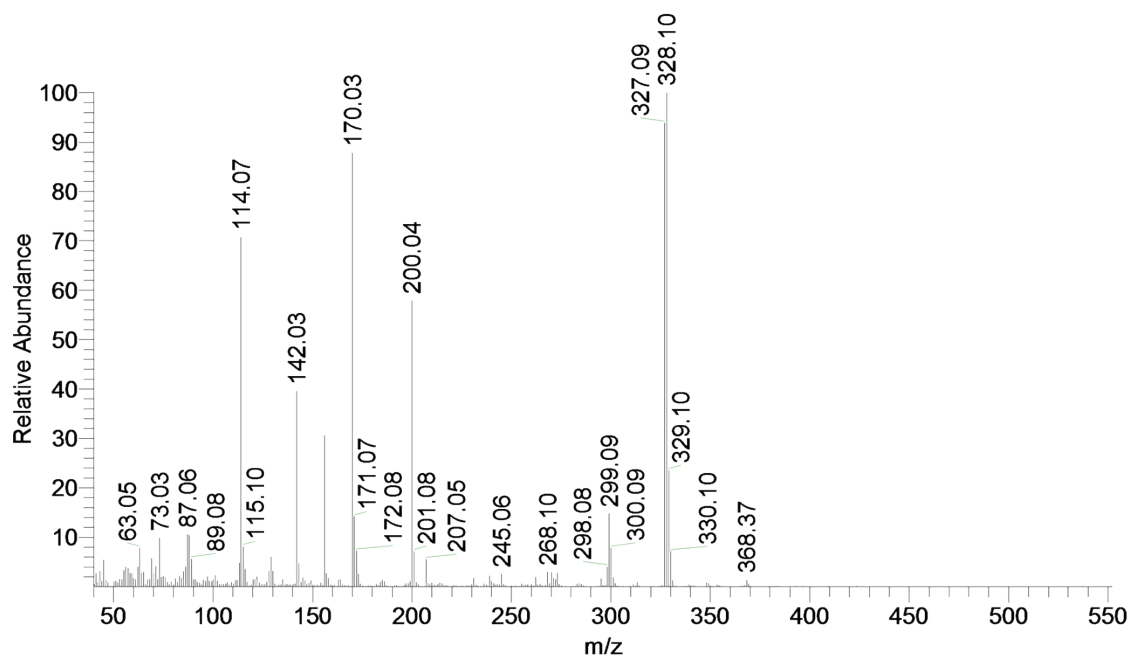


Expanded HMBC OF 15

RT: 0.03 - 2.71 SM: 15B

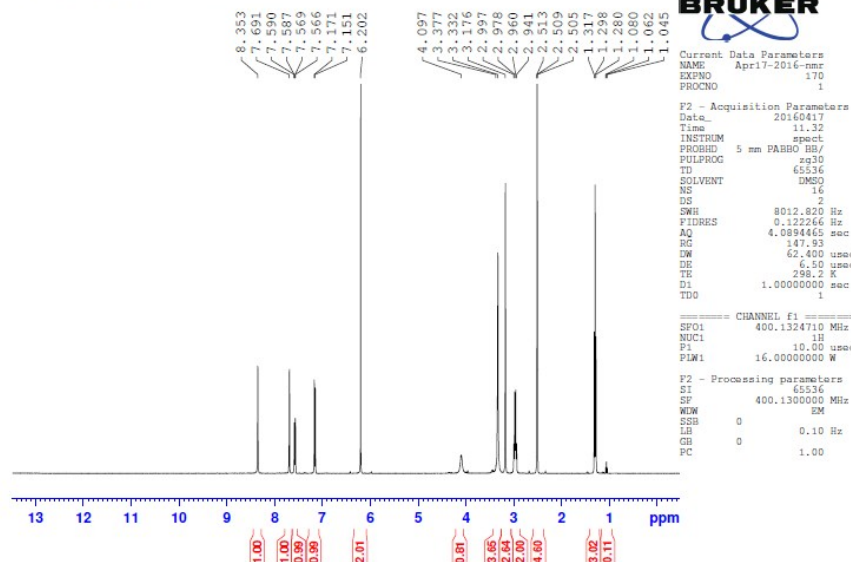


MOHAMED-ABDELSALAM-5 #50-161 RT: 0.85-2.71 AV: 112 NL: 2.26E7
T: {0,0} + c EI Full ms [40.00-1000.00]



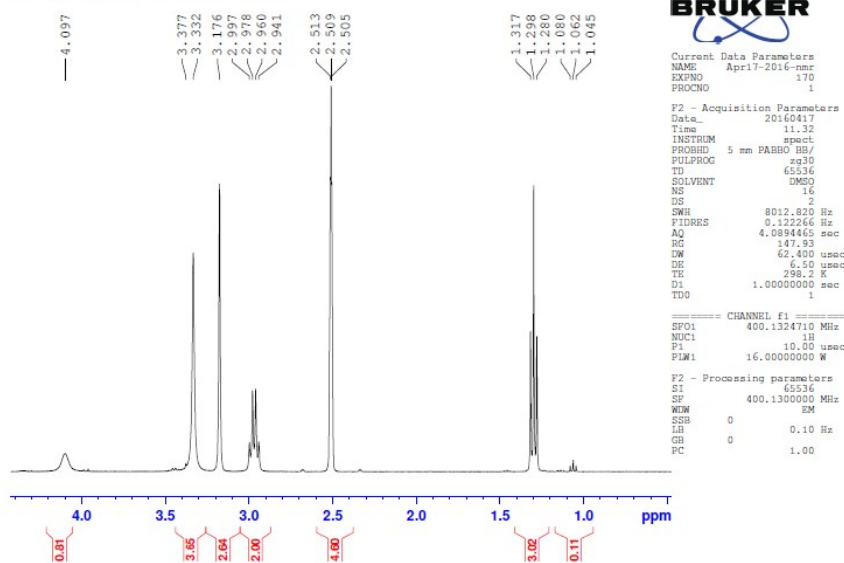
Mass spectrum of 16a

M.ABDELSALAM-5
PROTON_BSU DMSO (C:\data) nmr 20



¹H NMR OF 16a

M.ABDELSALAM-5
PROTON_BSU DMSO (C:\data) nmr 20



Expanded ¹H NMR OF 16a

M.ABDELSALAM-5
 PROTON_BSU DMSO (C:\data) nmr 20

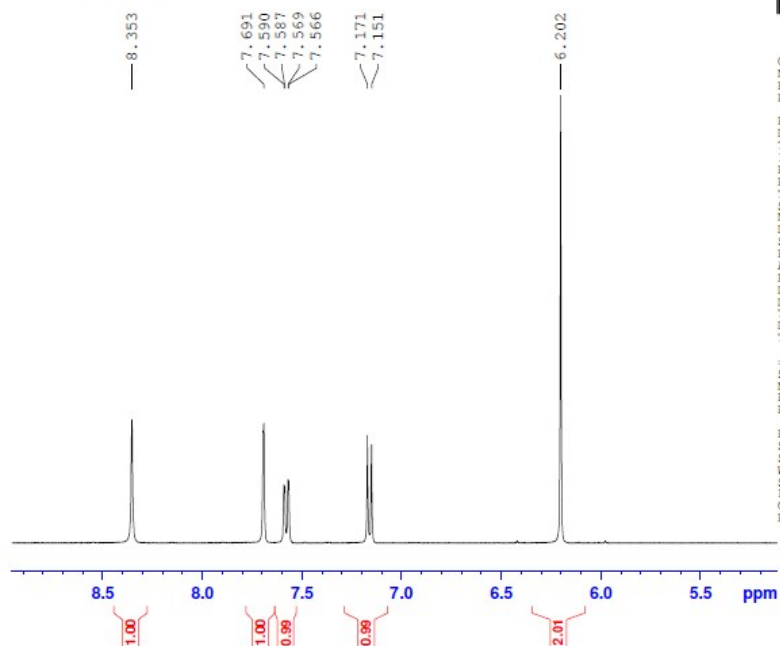


Current Data Parameters
 NAME Apr17-2016-nmr
 EXPNO 170
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20160417
 Time 11.32
 INSTRUM spect
 PROBHD 5 mm PARBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 147.93
 DW 62.400 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 TD0 1

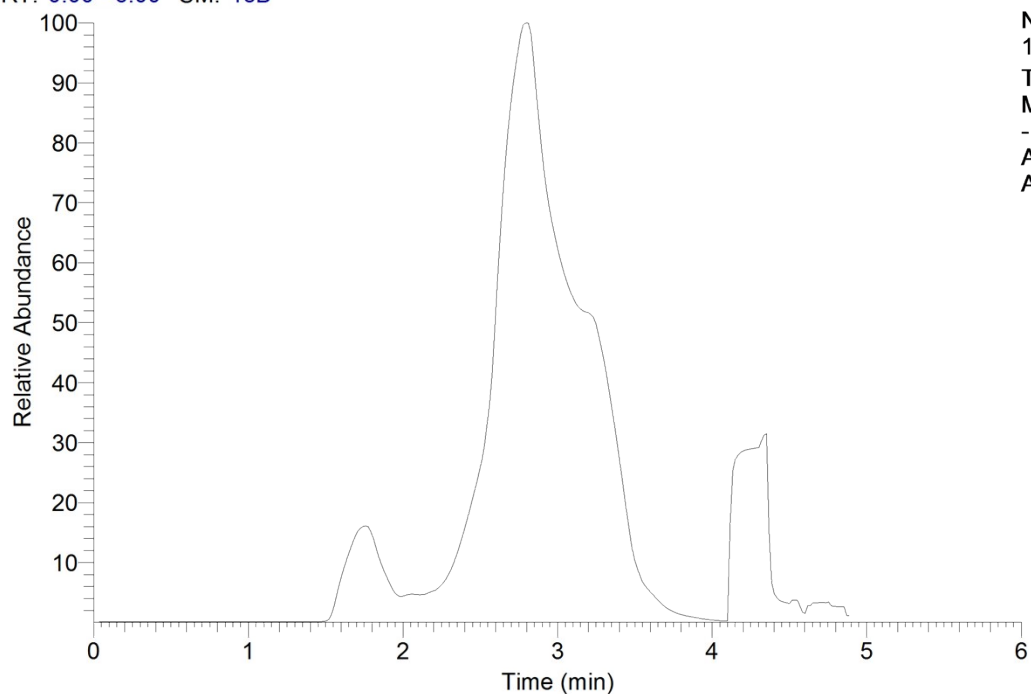
==== CHANNEL f1 =====
 SFO1 400.1324710 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 16.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



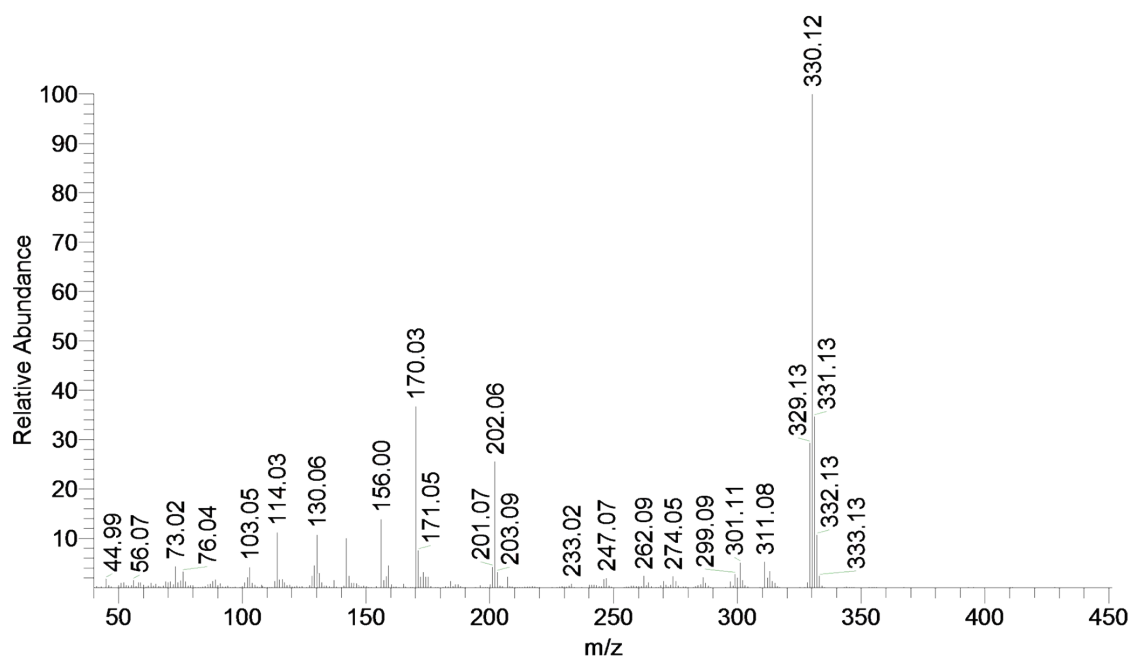
Expanded ^1H NMR OF 16a

RT: 0.00 - 6.00 SM: 15B



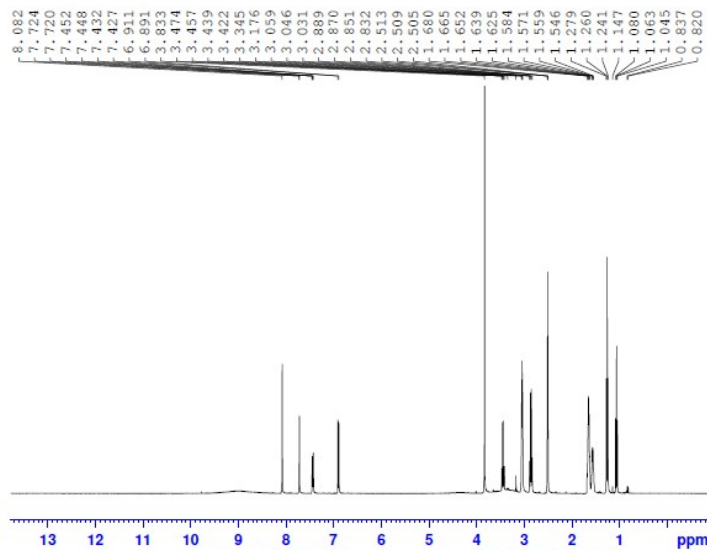
NL:
1.20E9
TIC MS
MOHAMED
-
ABDELSAL
AM-7

MOHAMED-ABDELSALAM-7 #186 RT: 3.13 AV: 1 NL: 1.27E8
T: {0,0} + c EI Full ms [40.00-1000.00]



Mass spectrum of 16b

M.ABDELSALAM-7
PROTON_BSU DMSO (C:\data) nmr 7



Current Data Parameters
NAME Apr14-2016-nmr
EXPNO 210
PROCNO 1

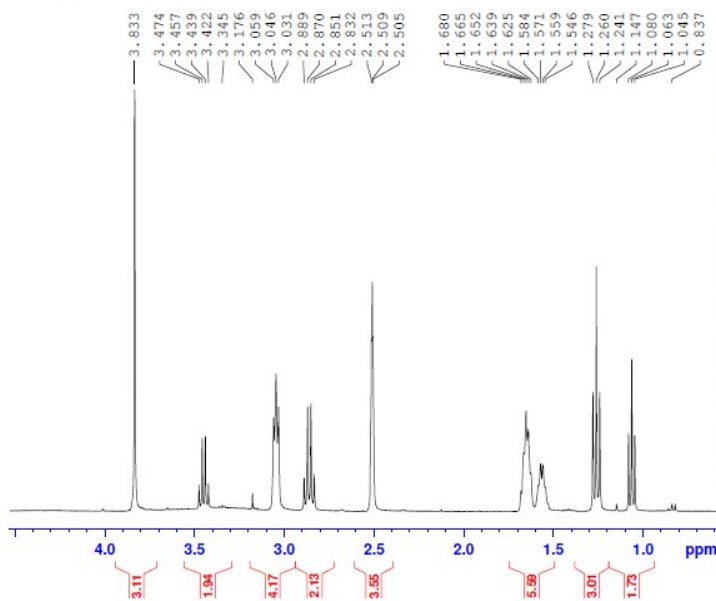
F2 - Acquisition Parameters
Date_ 20160414
Time 12.23
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 116.51
DW 62.400 usec
DE 6.50 usec
TE 298.2 K
D1 1.00000000 sec
TDO 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 1H
P1 10.00 usec
PLW1 16.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

¹H NMR OF 16b

M.ABDELSALAM-7
PROTON_BSU DMSO (C:\data) nmr 7



Current Data Parameters
NAME Apr14-2016-nmr
EXPNO 210
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160414
Time 12.23
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 116.51
DW 62.400 usec
DE 6.50 usec
TE 298.2 K
D1 1.00000000 sec
TDO 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 1H
P1 10.00 usec
PLW1 16.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

Expanded ¹H NMR OF 16b

M.ABDELSAIAH-7
 PROTON_BSU DMSO (C:\data) nmr 7

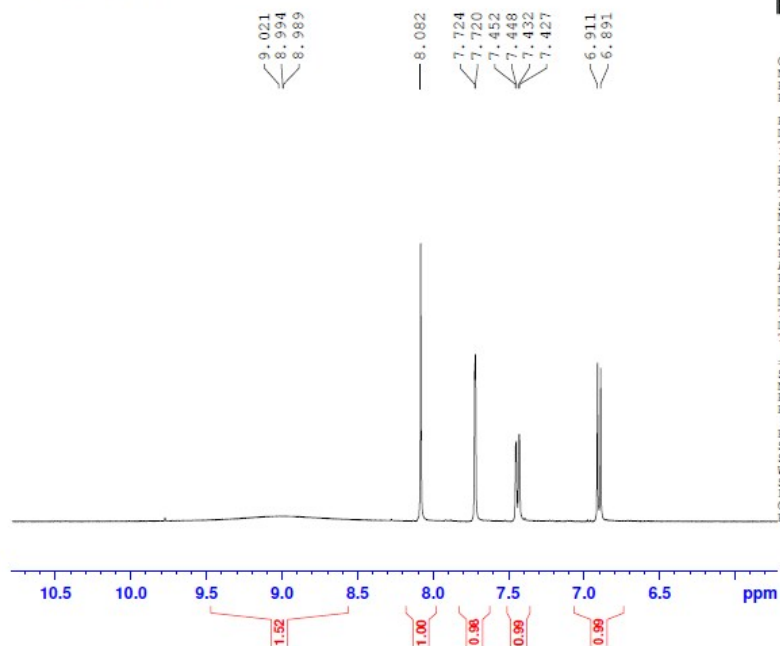


Current Data Parameters
 NAME Apr14-2016-nmr
 EXPNO 210
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20160414
 Time 12.23
 INSTRUM spect
 PROBHD 5 mm PARBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 116.51
 DW 62.400 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 TD0 1

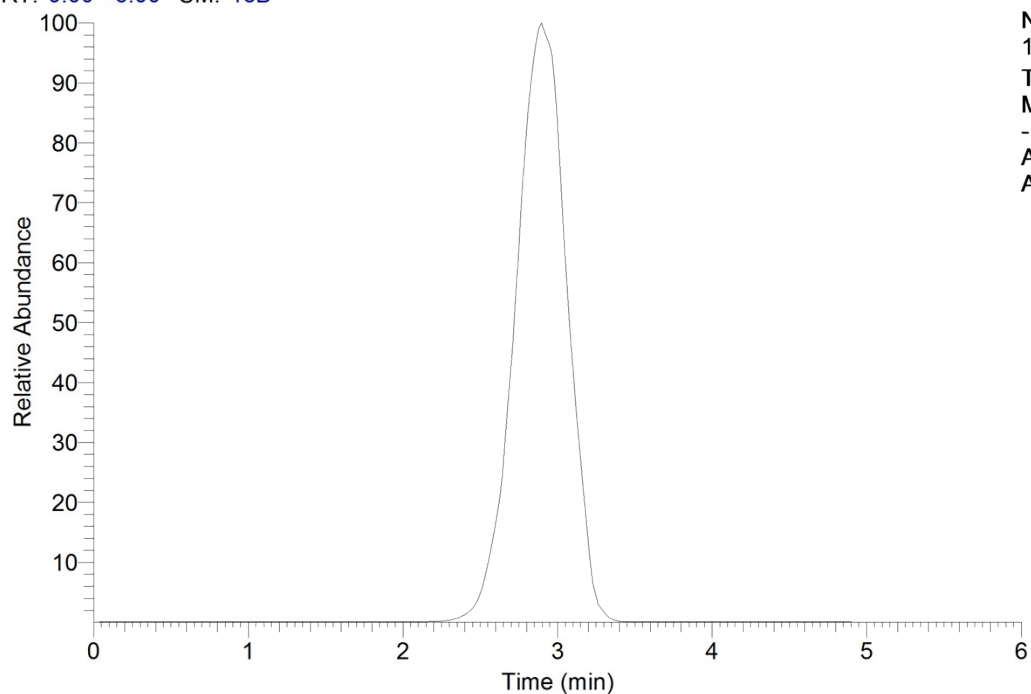
===== CHANNEL f1 =====
 SFO1 400.1324710 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 16.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 GB 0
 PC 1.00



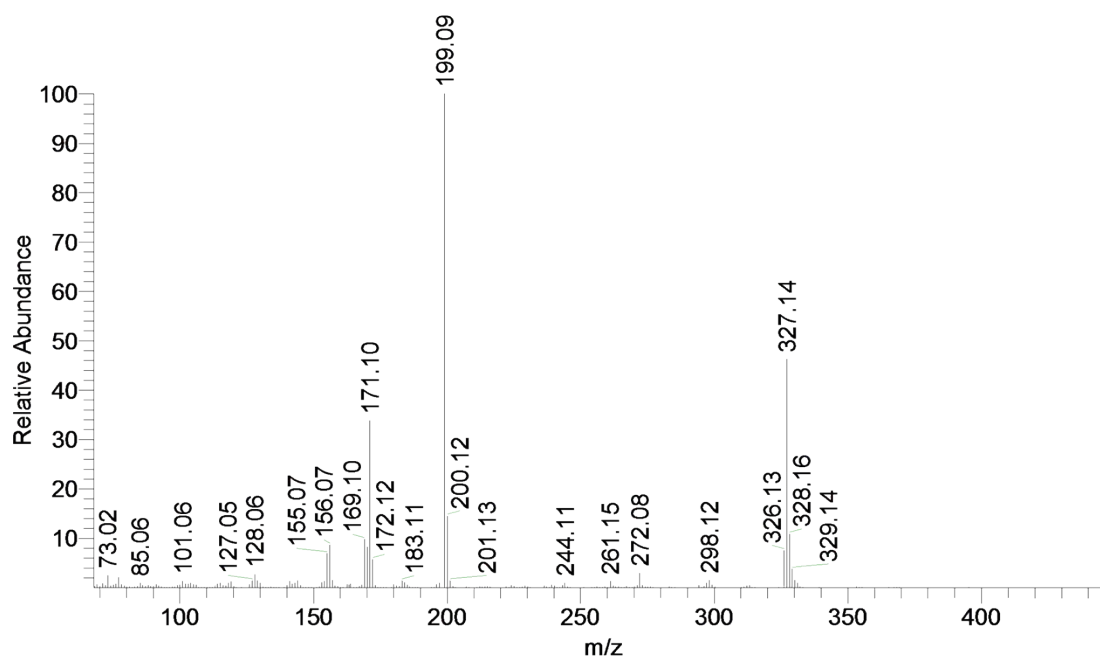
Expanded ^1H NMR OF 16b

RT: 0.00 - 6.00 SM: 15B



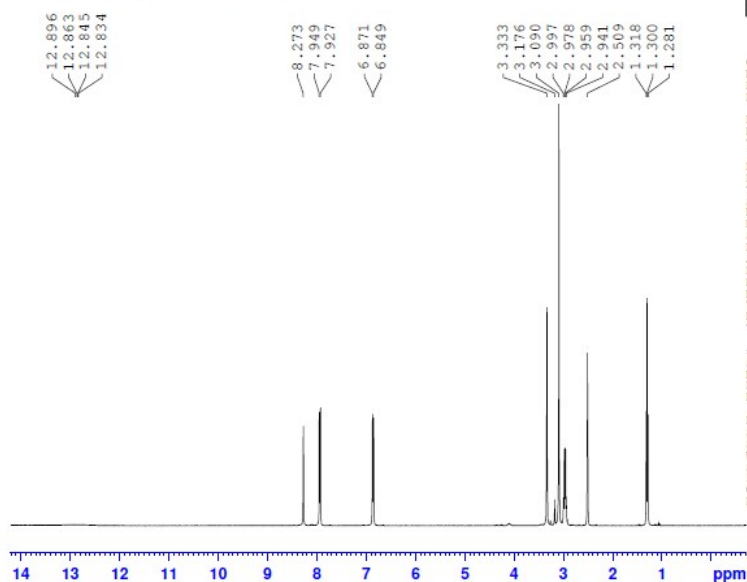
NL:
1.34E9
TIC MS
MOHAMED
-
ABDELSAL
AM-8

MOHAMED-ABDELSALAM-8 #176 RT: 2.96 AV: 1 NL: 3.45E8
T: {0,0} + c EI Full ms [40.00-1000.00]



Mass spectrum of 16c

M.ABDELSALAM-8
PROTON_BSU DMSO (C:\data) nmr 15



Current Data Parameters
NAME Apr19-2016-nmr
EXPNO 40
PROCNO 1

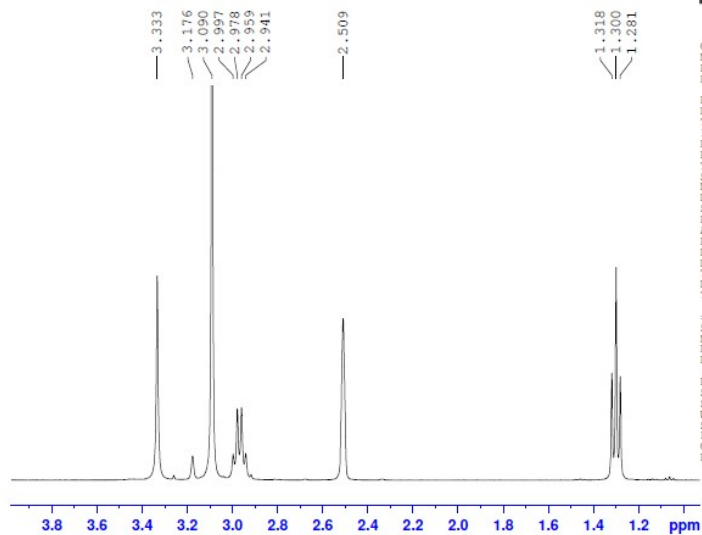
F2 - Acquisition Parameters
Data 20160419
Time 10.31
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 116.51
DW 62.400 usec
DE 6.50 usec
TE 298.2 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 1H
P1 10.00 usec
PLW1 16.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
WMW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

¹H NMR OF 16c

M.ABDELSALAM-8
PROTON_BSU DMSO (C:\data) nmr 15



Current Data Parameters
NAME Apr19-2016-nmr
EXPNO 40
PROCNO 1

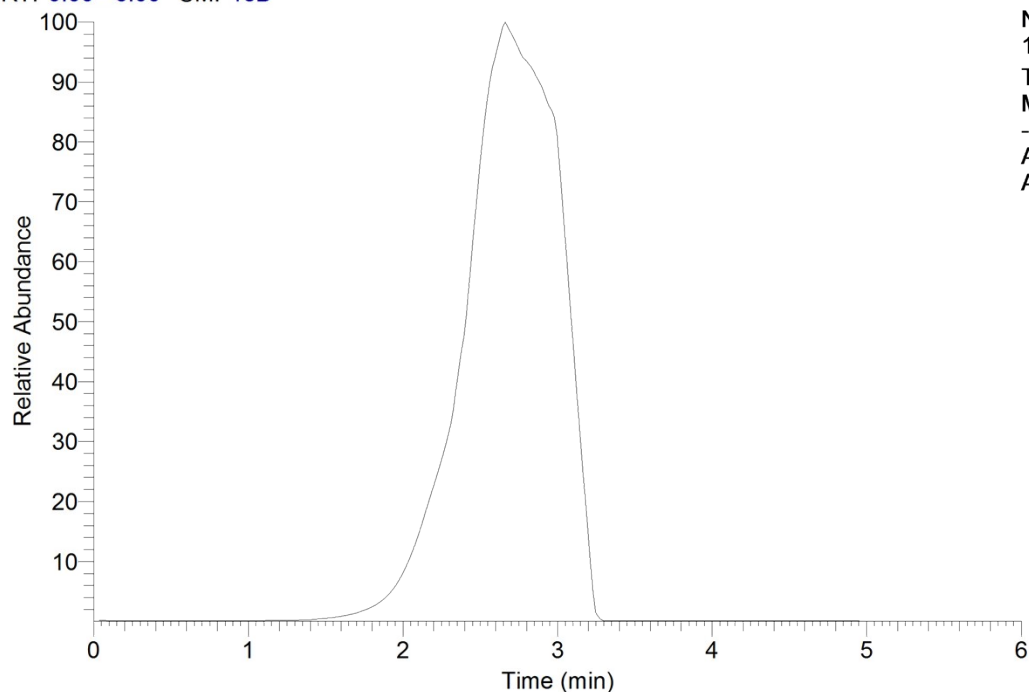
F2 - Acquisition Parameters
Data 20160419
Time 10.31
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 116.51
DW 62.400 usec
DE 6.50 usec
TE 298.2 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 1H
P1 10.00 usec
PLW1 16.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
WMW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

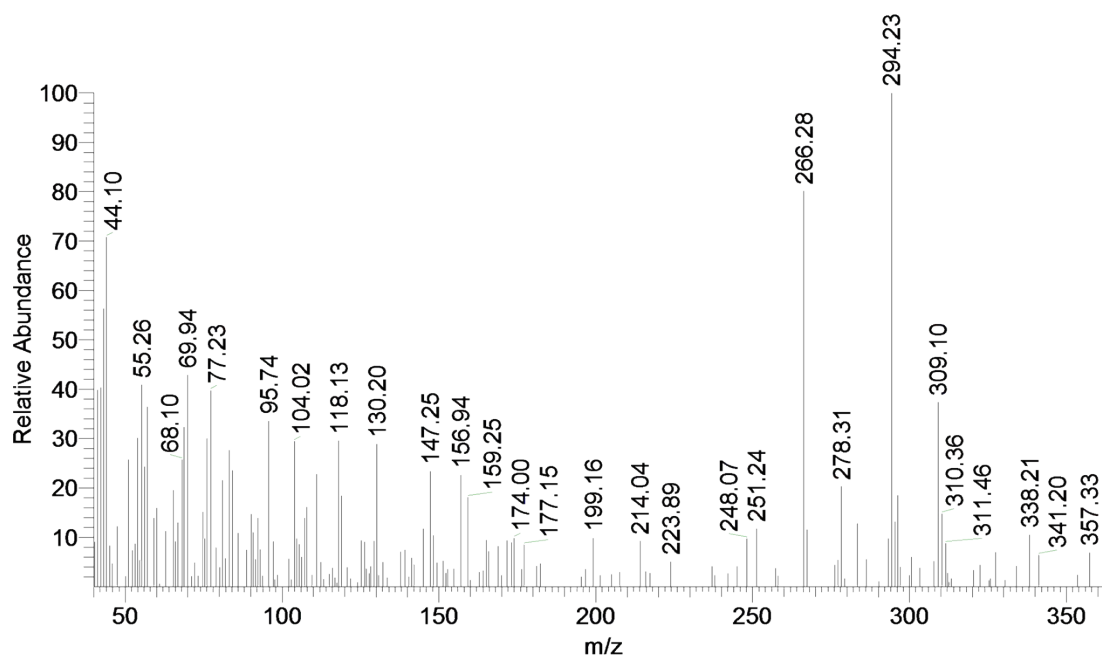
Expanded ¹H NMR OF 16c

RT: 0.00 - 6.00 SM: 15B



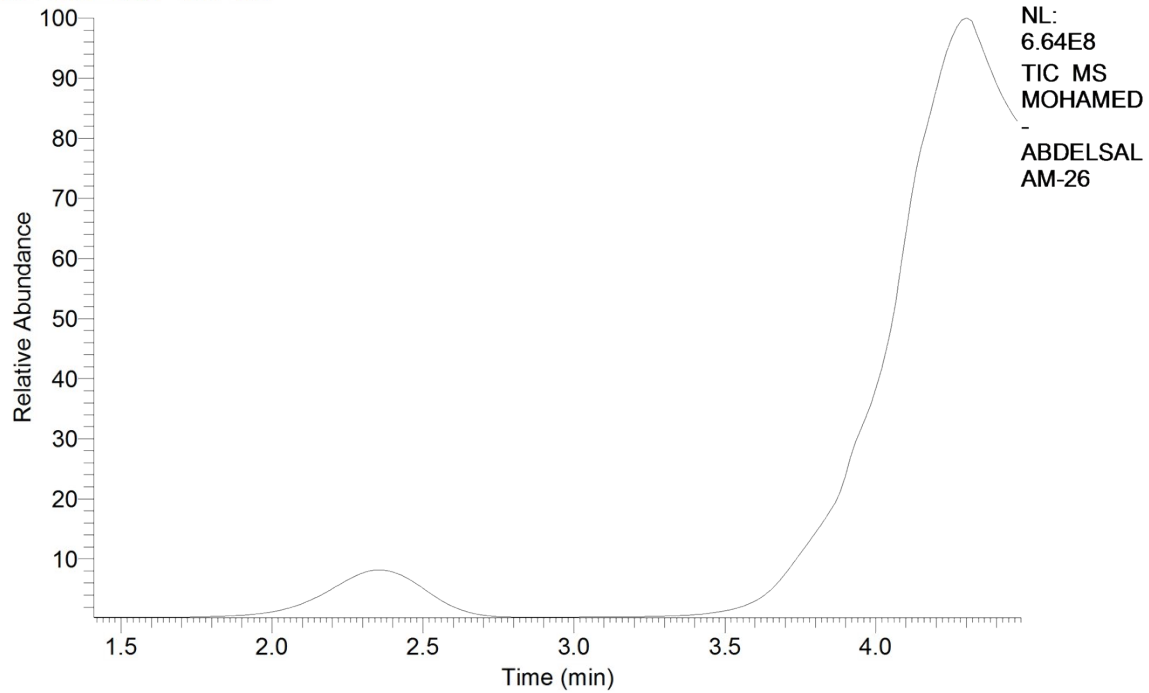
NL:
1.78E9
TIC MS
MOHAMED
-
ABDELSAL
AM-117

MOHAMED-ABDELSALAM-117 #287 RT: 4.82 AV: 1 NL: 7.92E3
T: {0,0} + c EI Full ms [40.00-1000.00]

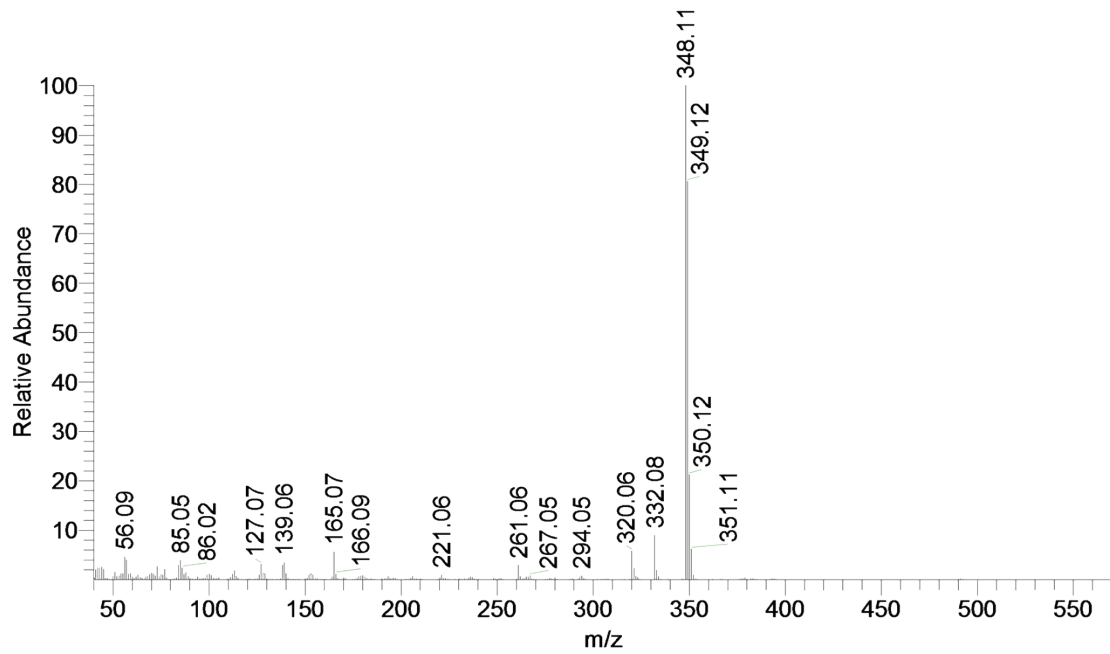


Mass spectrum of 17

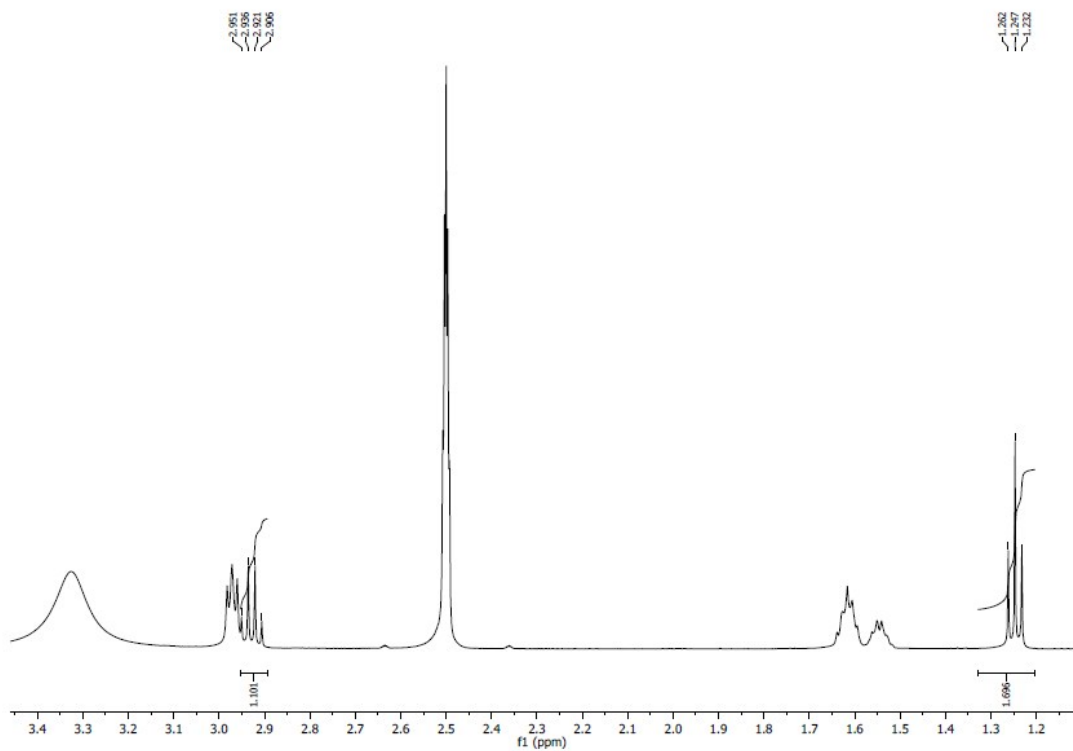
RT: 1.41 - 4.48 SM: 15B



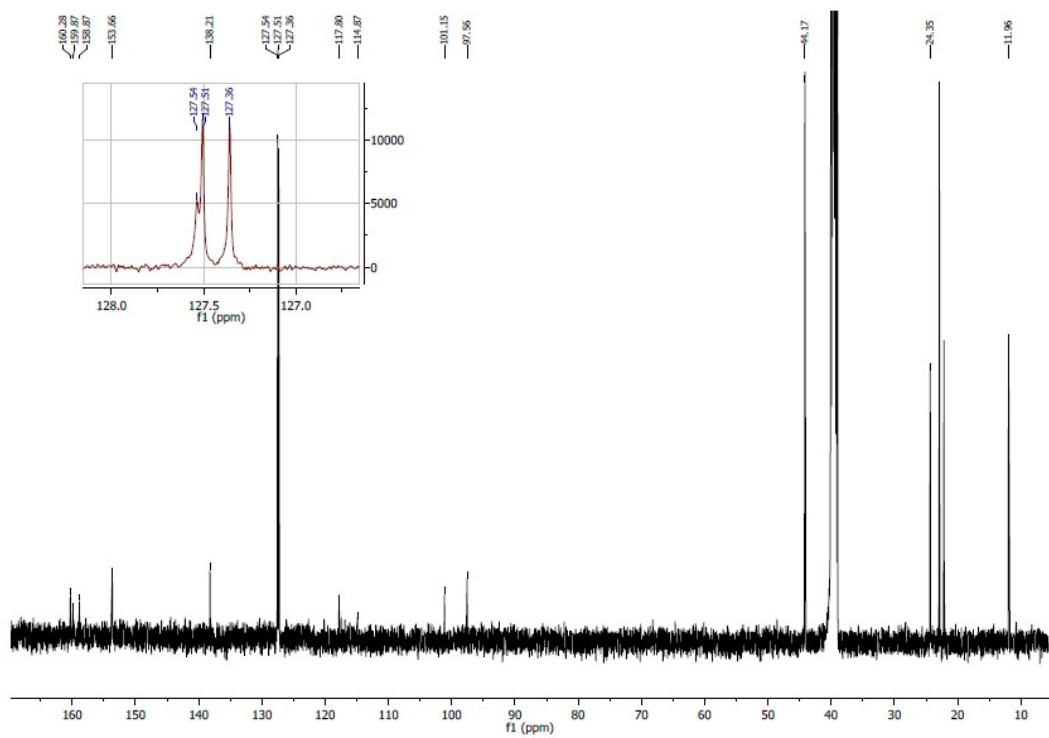
MOHAMED-ABDELSALAM-26 #107-267 RT: 1.81-4.49 AV: 161 NL: 3.34E7
T: {0,0} + c EI Full ms [40.00-1000.00]



Mass spectrum of 18a

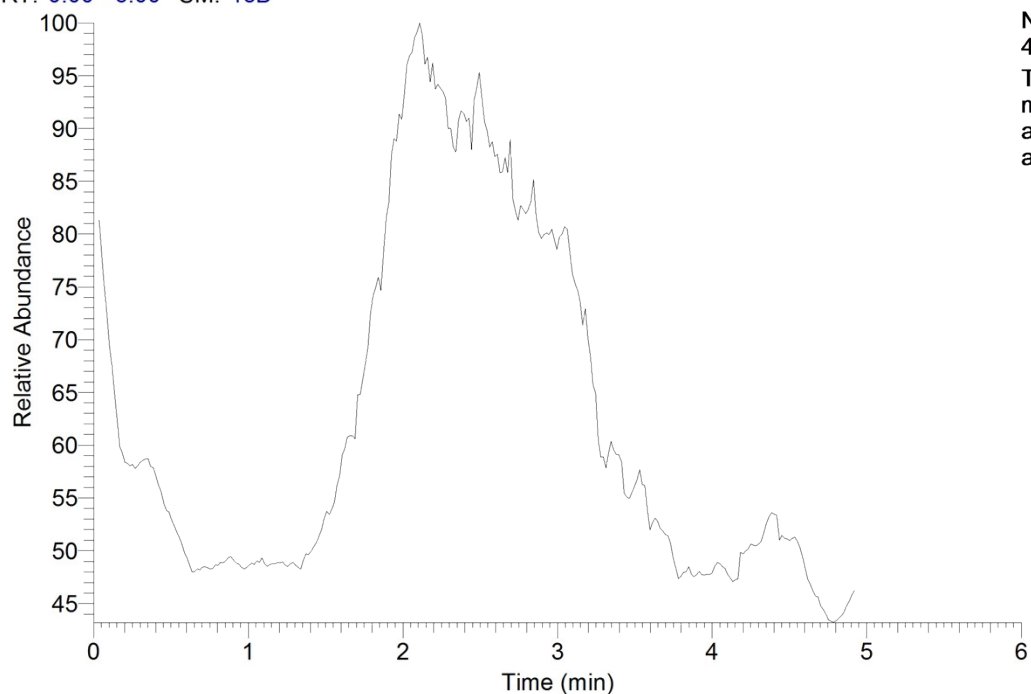


Expanded ^1H NMR OF 18a



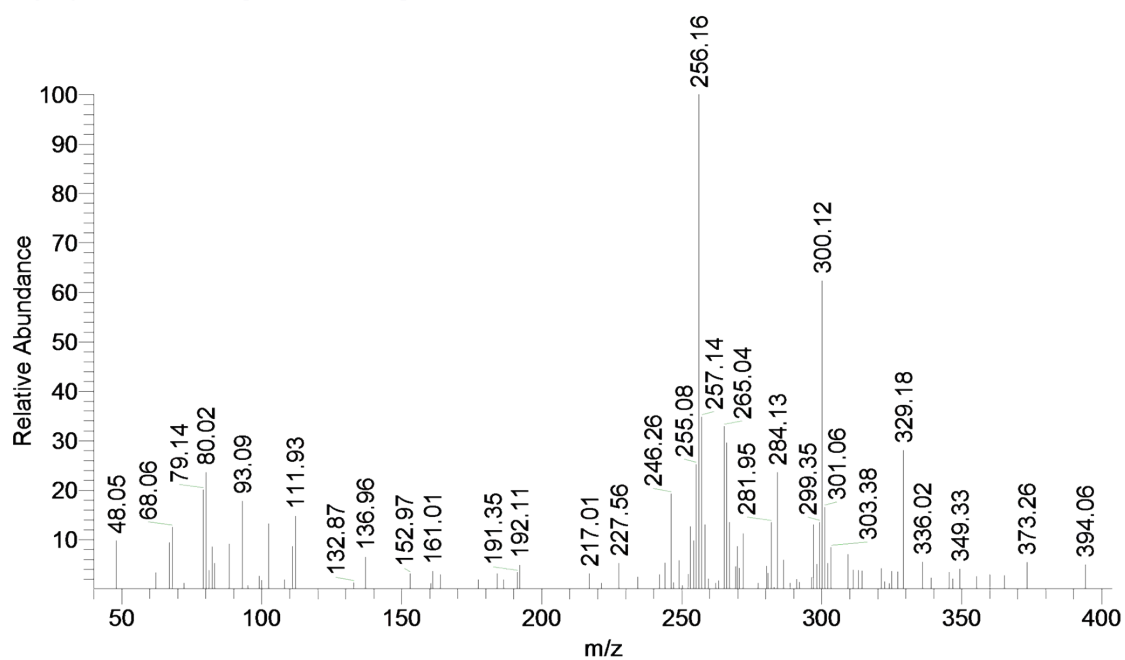
^{13}C NMR OF 18a

RT: 0.00 - 6.00 SM: 15B



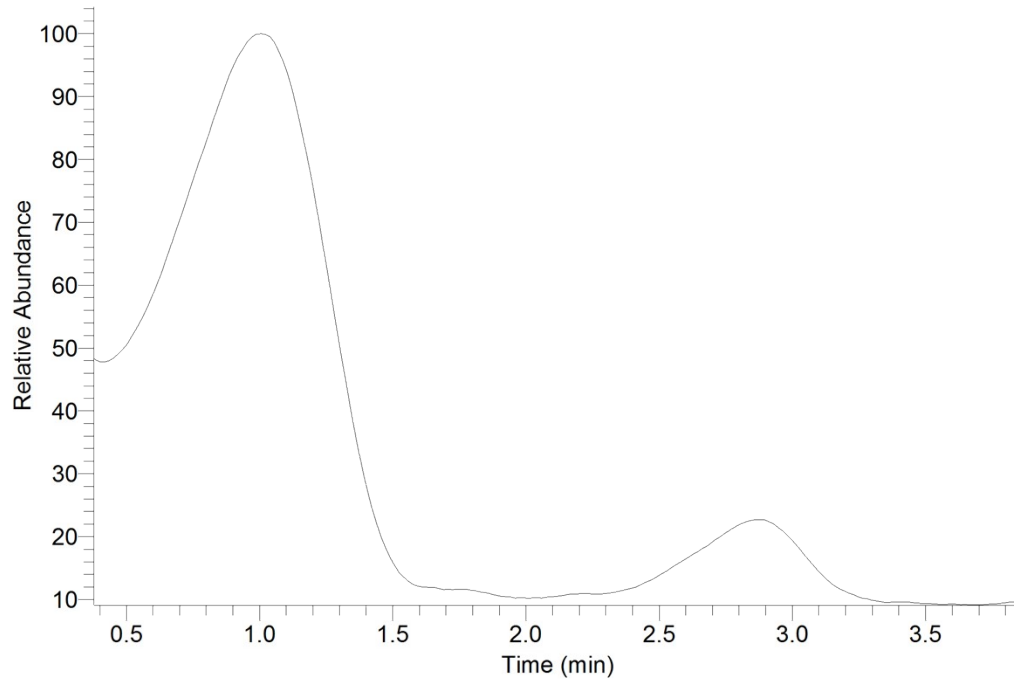
NL:
4.26E6
TIC MS
mohamed-
abd-
alsalam-27

mohamed-abd-alsalam-27 #201 RT: 3.38 AV: 1 SB: 2 3.56 , 3.56 NL: 1.07E4
T: {0,0} + c EI Full ms [40.00-1000.00]



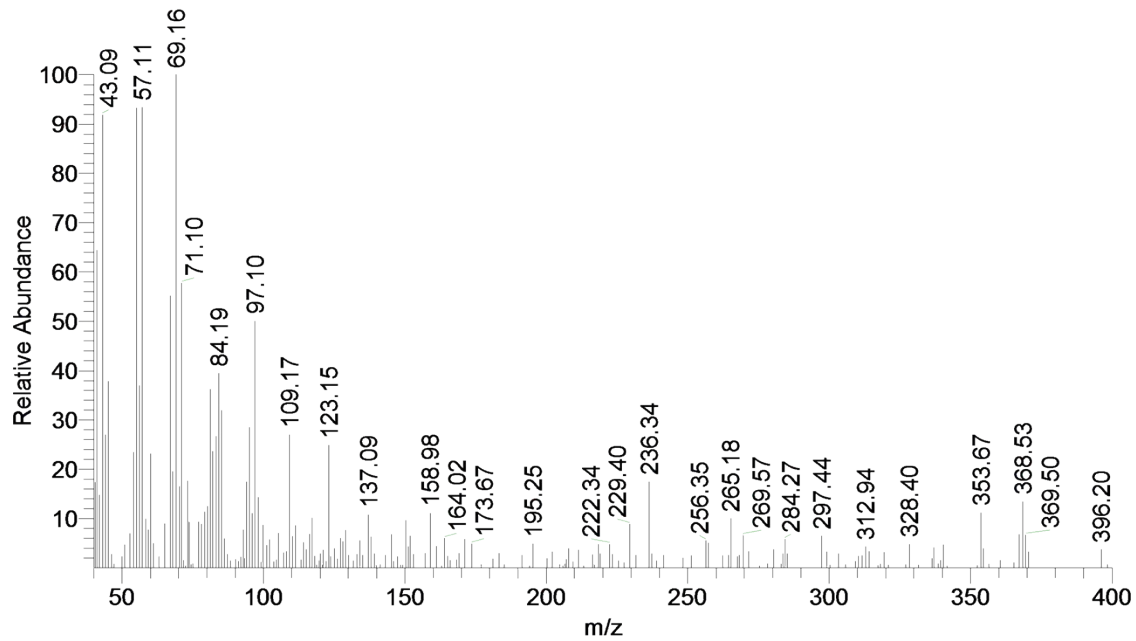
Mass spectrum of 18b

RT: 0.38 - 3.86 SM: 15B



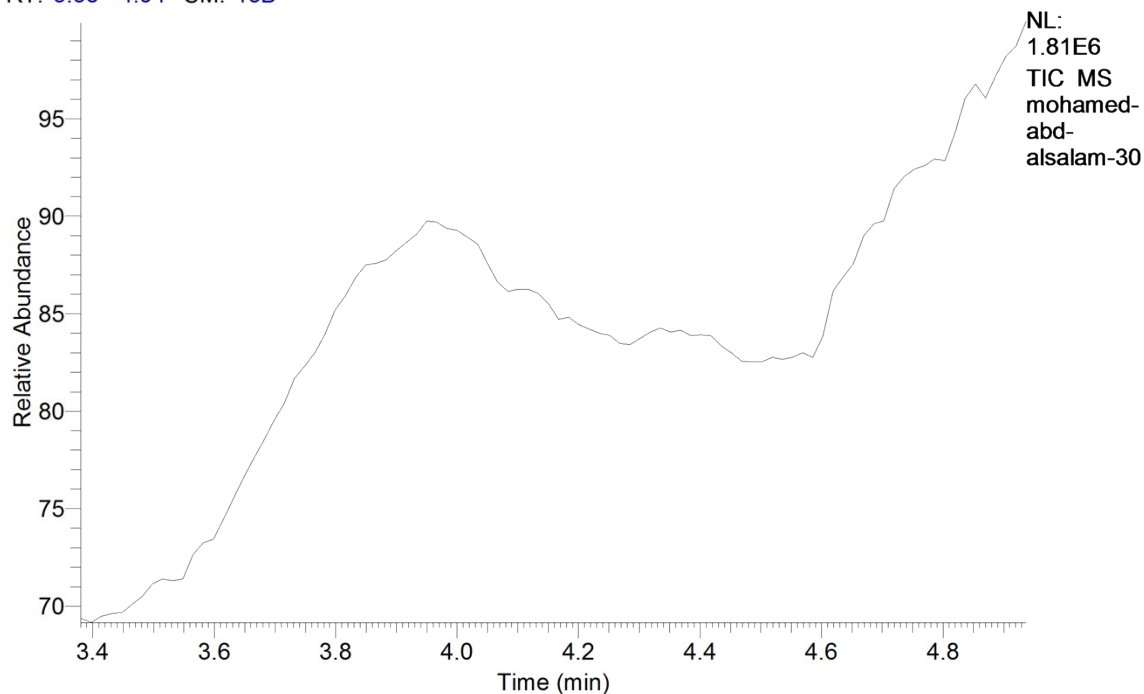
NL:
1.06E7
TIC MS
MOHAMED
-
ABDELSAL
AM-28

MOHAMED-ABDELSALAM-28 #109 RT: 1.84 AV: 1 NL: 1.84E4
T: {0,0} + c EI Full ms [40.00-1000.00]

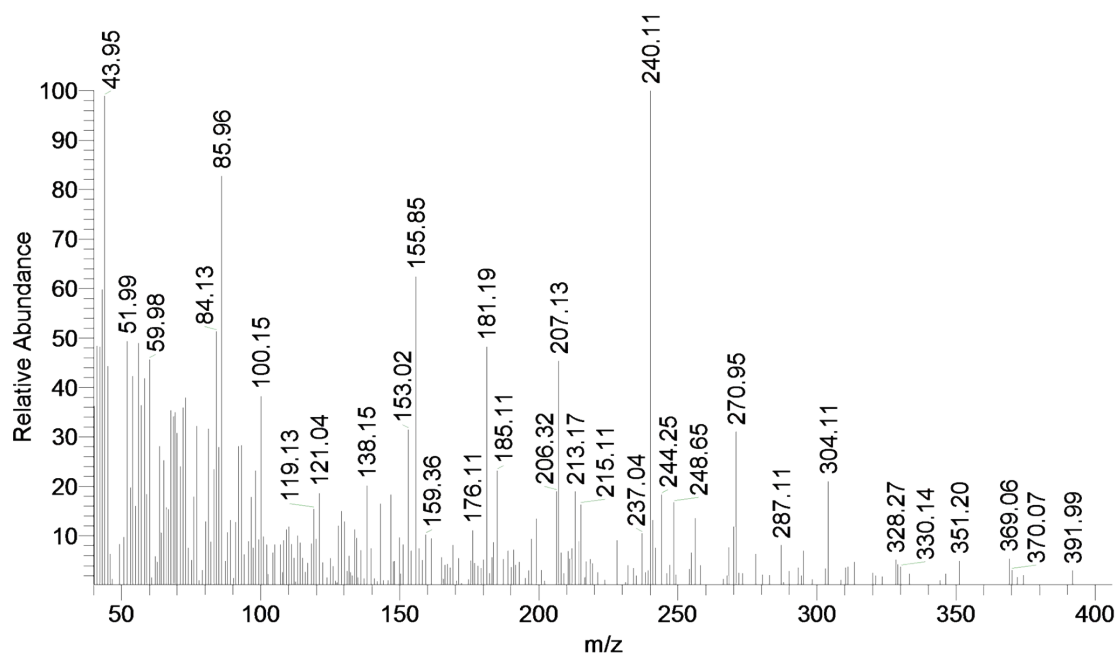


Mass spectrum of 18c

RT: 3.38 - 4.94 SM: 15B

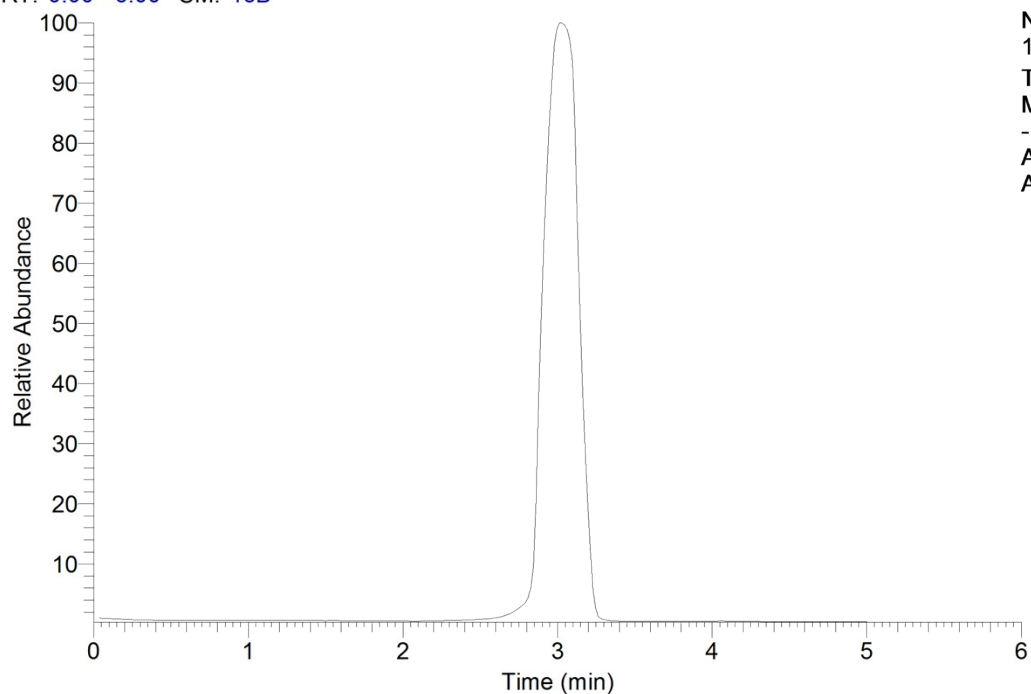


mohamed-abd-alsalam-30 #283 RT: 4.75 AV: 1 NL: 1.35E4
T: {0,0} + c EI Full ms [40.00-1000.00]



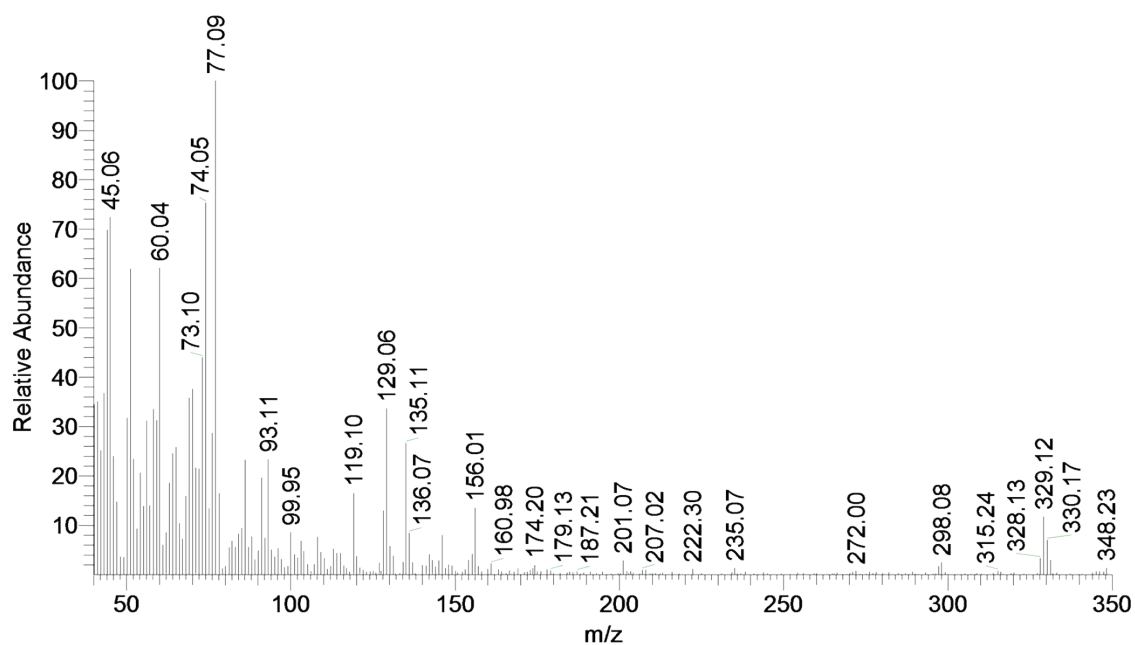
Mass spectrum of 18d

RT: 0.00 - 6.00 SM: 15B



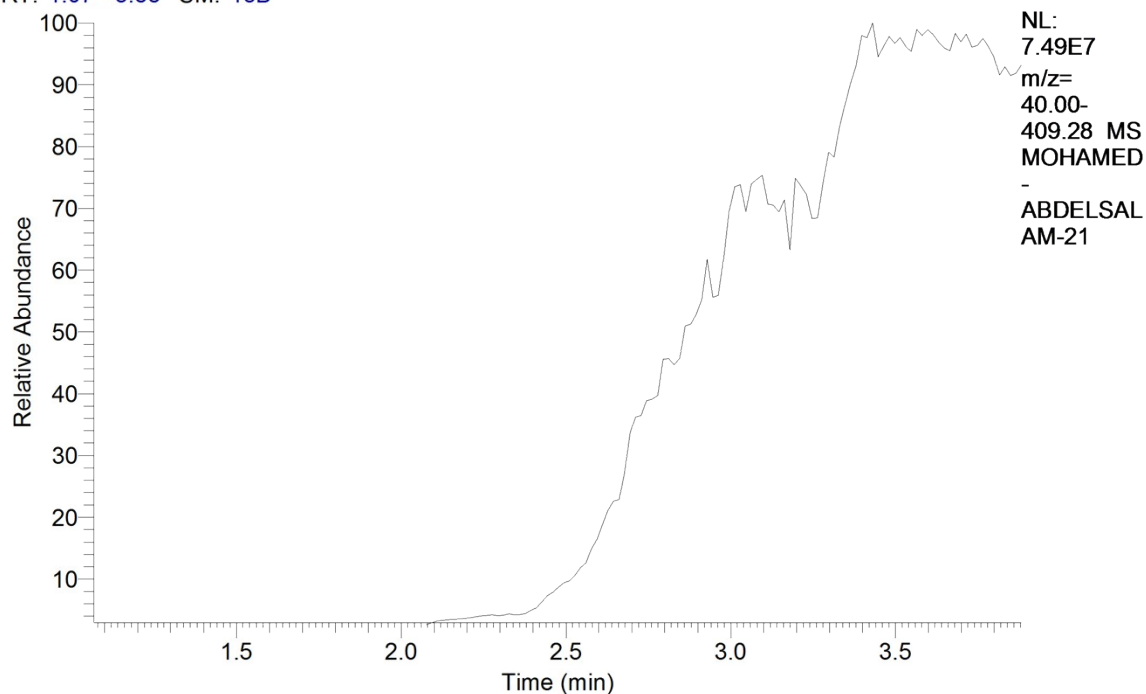
NL:
1.74E9
TIC MS
MOHAMED
-
ABDELSAL
AM-20

MOHAMED-ABDELSALAM-20 #197 RT: 3.31 AV: 1 NL: 1.83E5
T: {0,0} + c EI Full ms [40.00-1000.00]

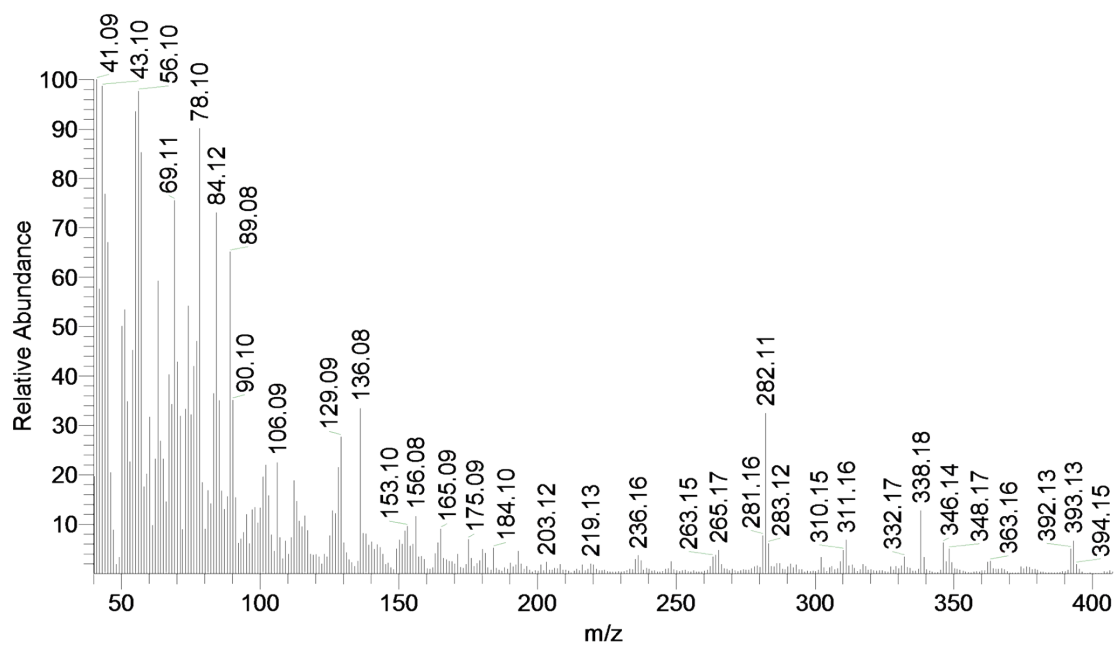


Mass spectrum of 19a

RT: 1.07 - 3.88 SM: 15B

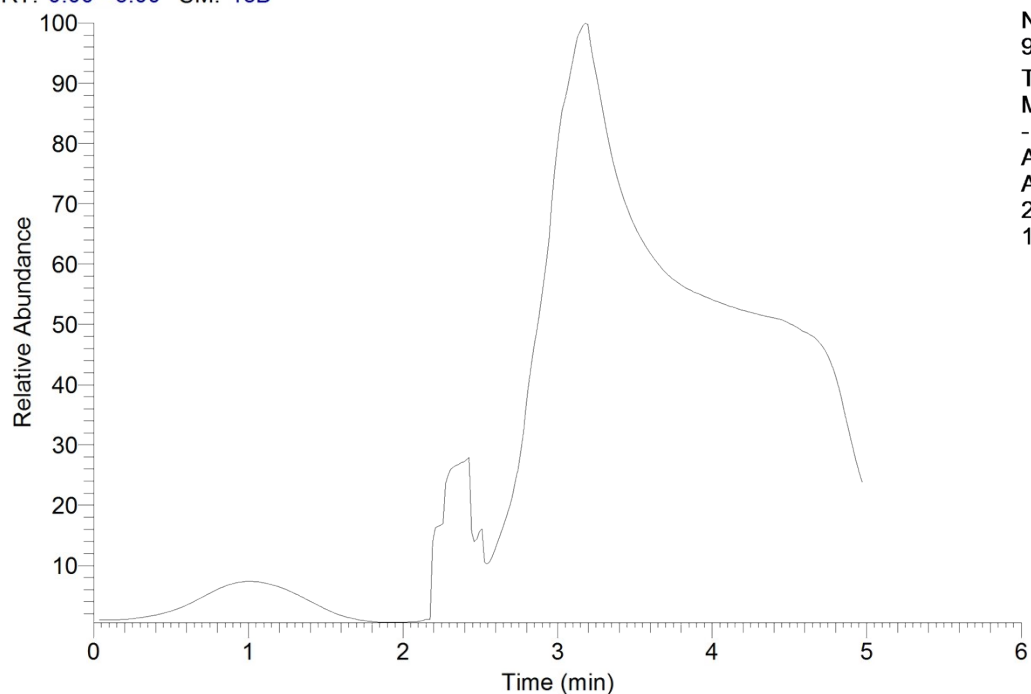


MOHAMED-ABDELSALAM-21 #62-232 RT: 1.05-3.90 AV: 171 NL: 8.74E5
T: {0,0} + c EI Full ms [40.00-1000.00]



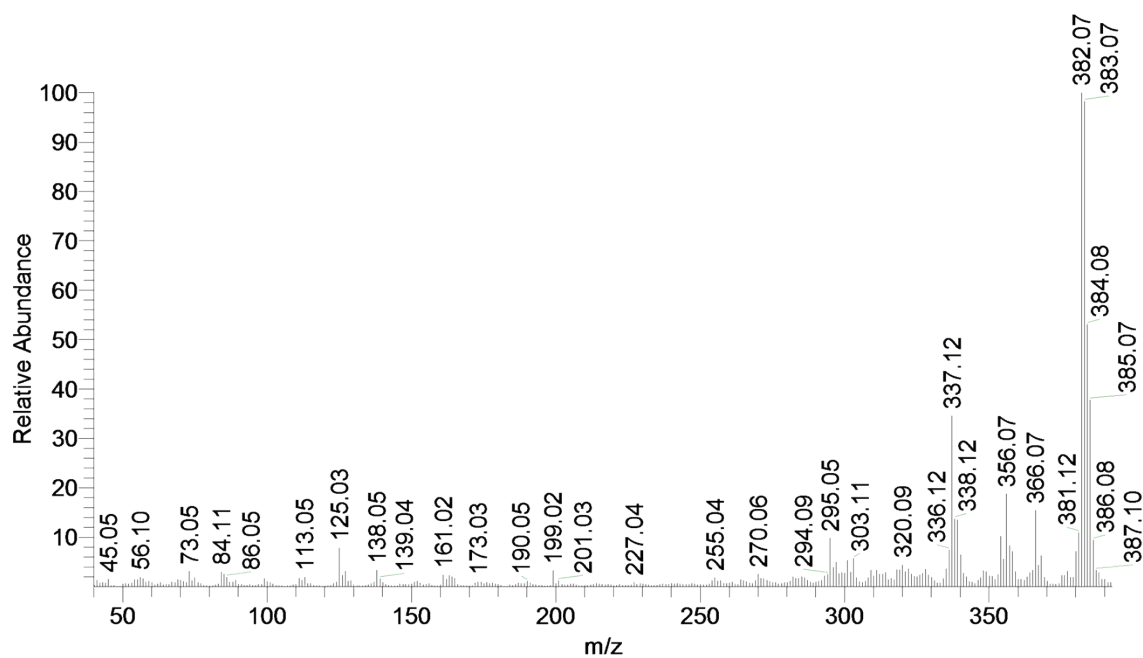
Mass spectrum of 19b

RT: 0.00 - 6.00 SM: 15B



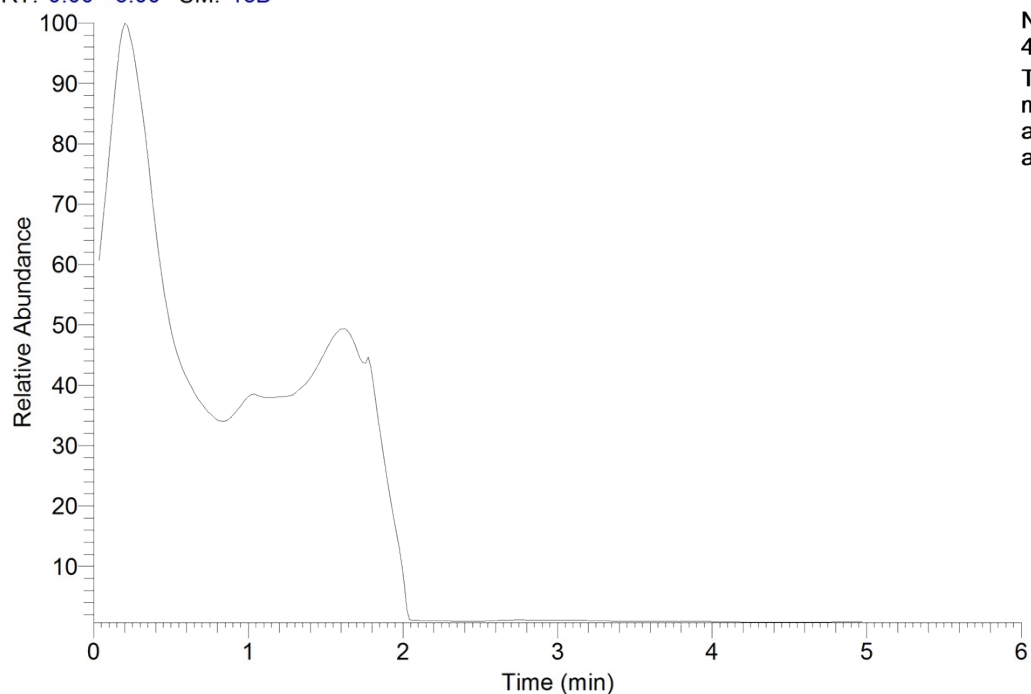
NL:
9.73E8
TIC MS
MOHAMED
-
ABDELSAL
AM-
22_161122
135059

MOHAMED-ABDELSALAM-22_161122135059 #283-296 RT: 4.75-4.97 AV: 14 NL: 3.65E7
T: {0,0} + c EI Full ms [40.00-1000.00]



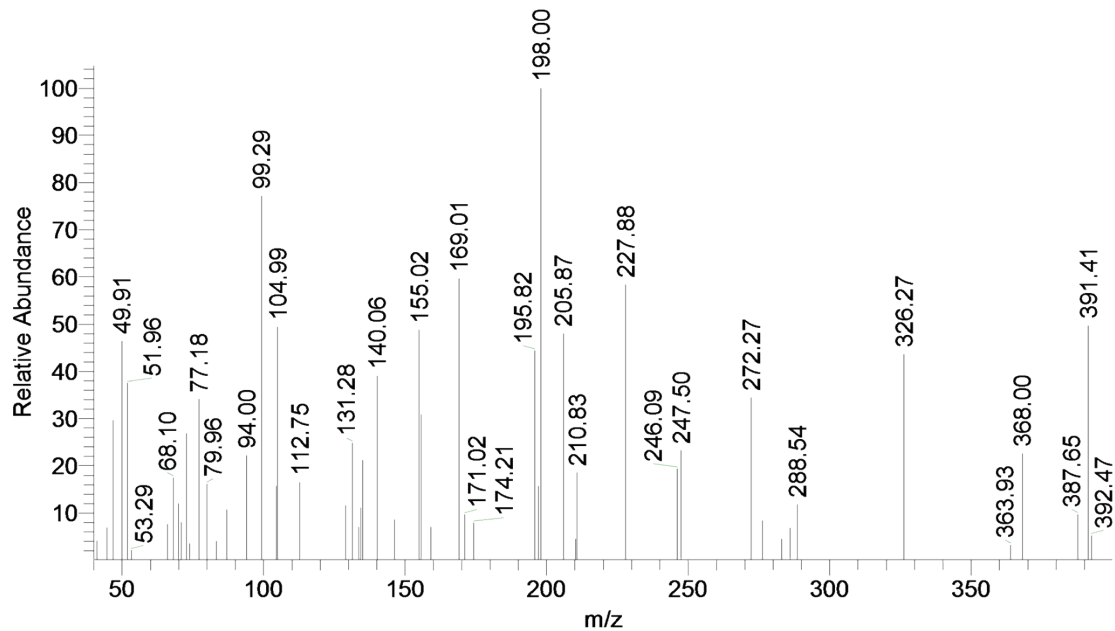
Mass spectrum of 19c

RT: 0.00 - 6.00 SM: 15B



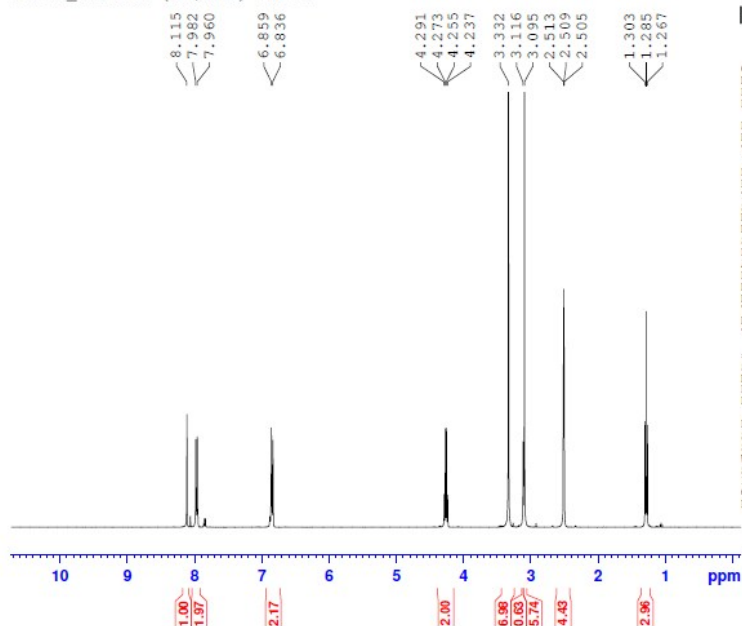
NL:
4.81E8
TIC MS
mohamed-
abd-
alsalam-24

mohamed-abd-alsalam-24 #150 RT: 2.53 AV: 1 SB: 2 2.34 , 2.38 NL: 1.28E3
T: {0,0} + c EI Full ms [40.00-1000.00]



Mass spectrum of 19d

M.ABDELSALAM-24
PROTON_BSU DMSO (C:\data) nmr 18



Current Data Parameters
NAME Apr24-2016-nmr
EXPNO 60
PROCNO 1

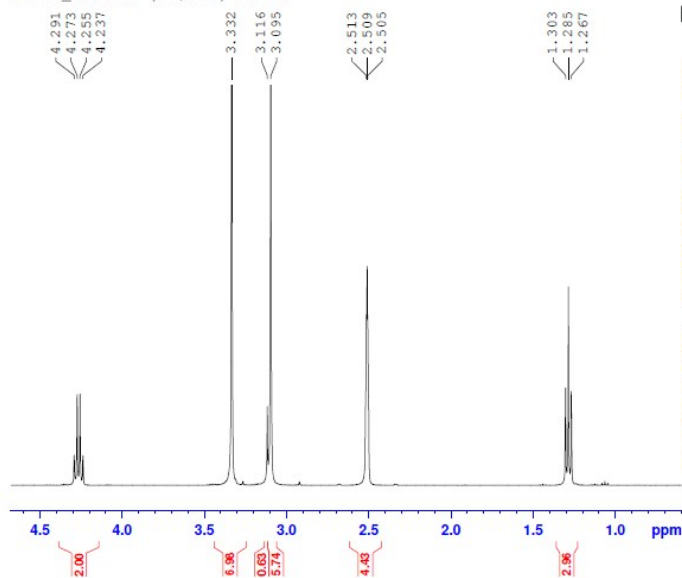
F2 - Acquisition Parameters
Date_ 20160424
Time 10.27
INSTRUM spect
PROBHD 5 mm PARBO HB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 147.93
DW 62.400 usec
DE 6.50 usec
TE 298.2 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 1H
P1 10.00 usec
PLW1 16.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

¹H NMR OF 19d

M.ABDELSALAM-24
PROTON_BSU DMSO (C:\data) nmr 18



Current Data Parameters
NAME Apr24-2016-nmr
EXPNO 60
PROCNO 1

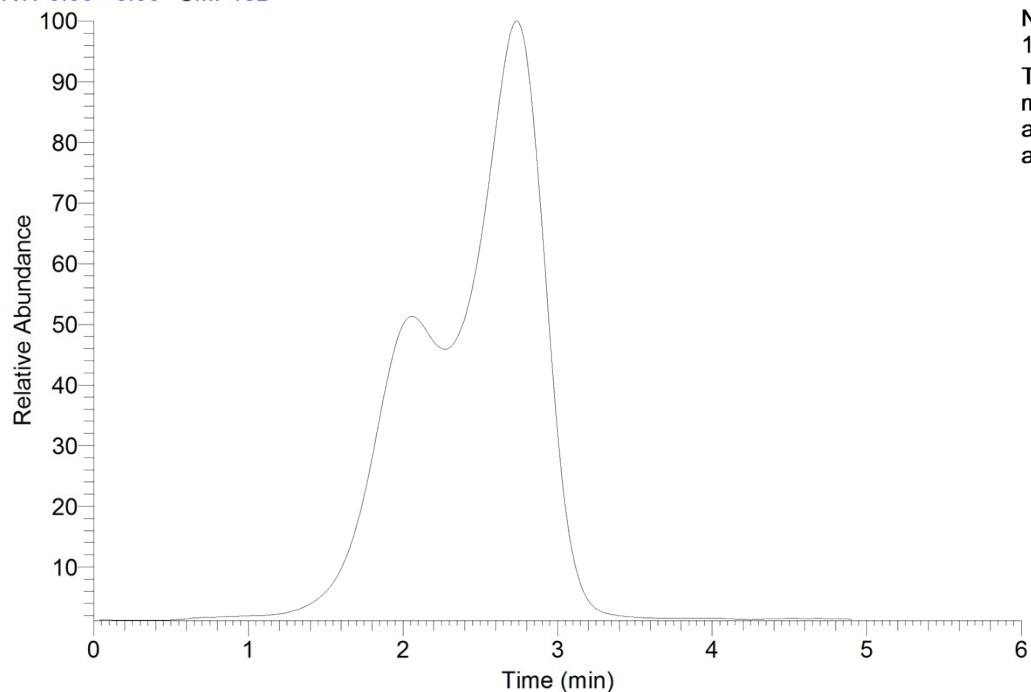
F2 - Acquisition Parameters
Date_ 20160424
Time 10.27
INSTRUM spect
PROBHD 5 mm PARBO HB/
PULPROG zg30
TD 65536
SOLVENT DMSO
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 147.93
DW 62.400 usec
DE 6.50 usec
TE 298.2 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 1H
P1 10.00 usec
PLW1 16.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

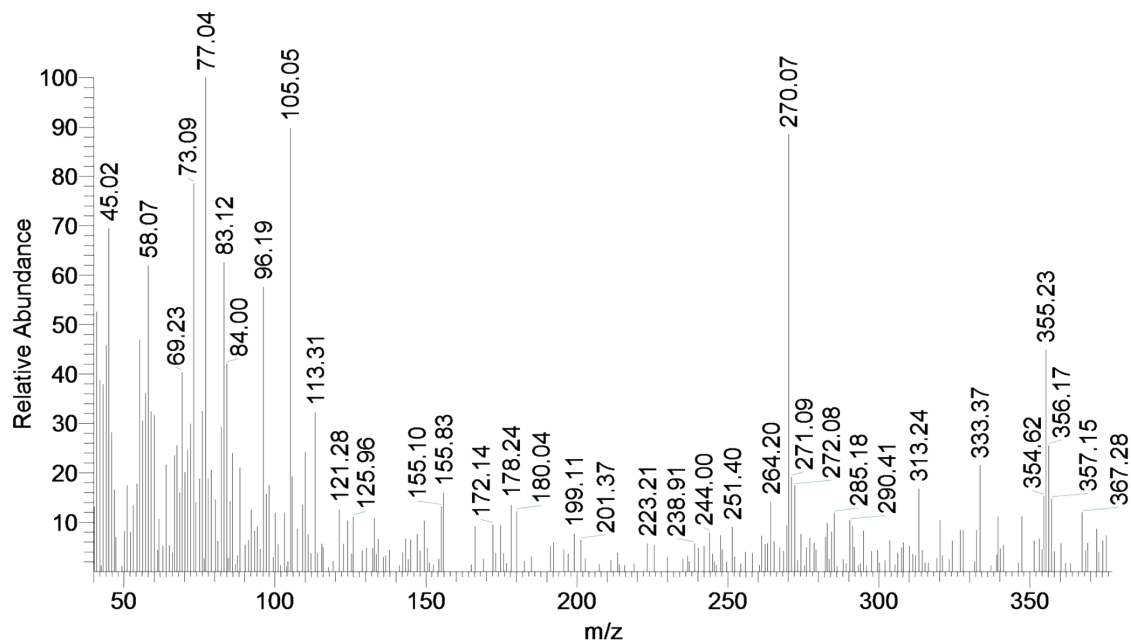
Expanded ¹H NMR OF 19d

RT: 0.00 - 6.00 SM: 15B



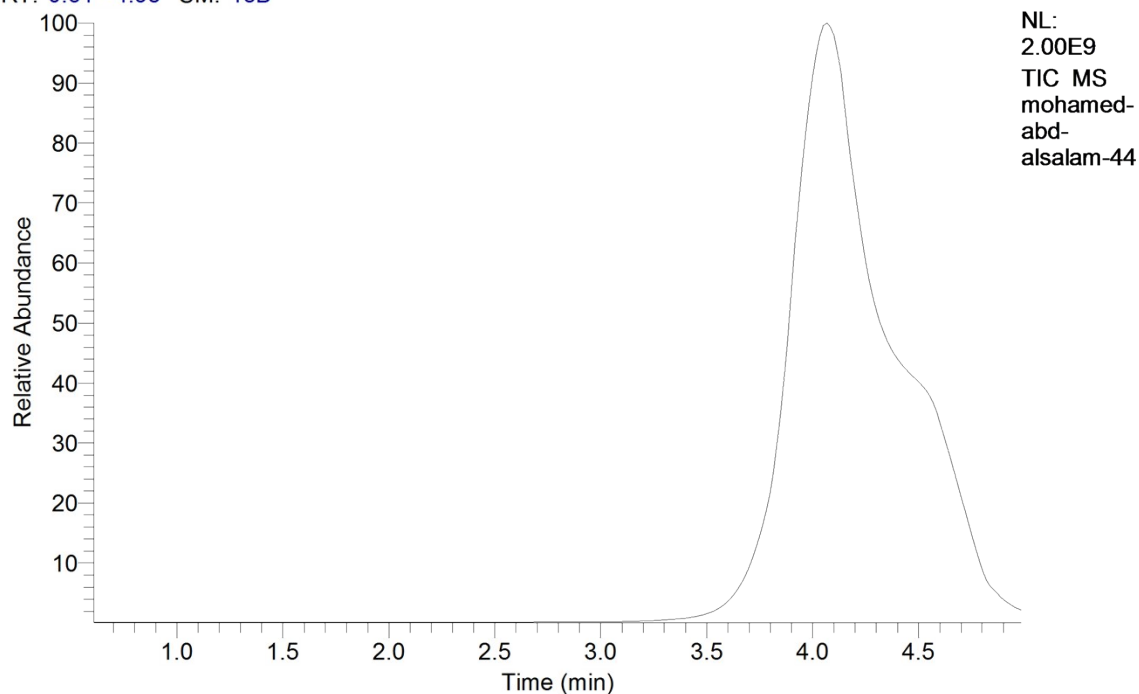
NL:
1.51E8
TIC MS
mohamed-
abd-
alsalam-43

mohamed-abd-alsalam-43 #223 RT: 3.75 AV: 1 NL: 9.87E3
T: {0,0} + c EI Full ms [40.00-1000.00]



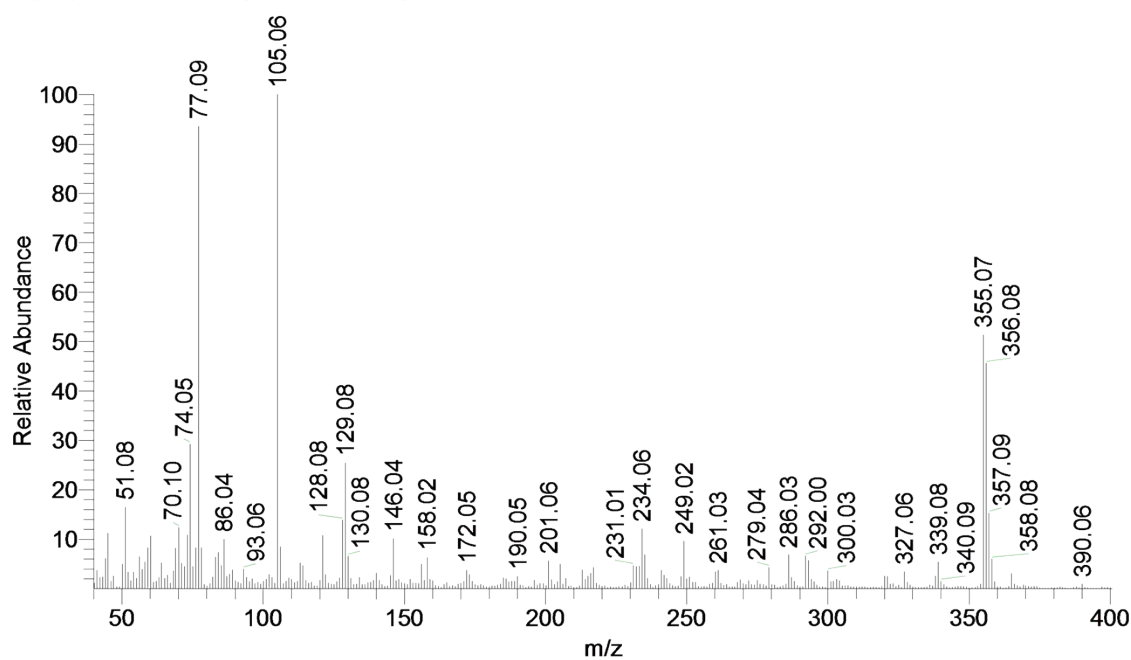
Mass spectrum of 21

RT: 0.61 - 4.98 SM: 15B

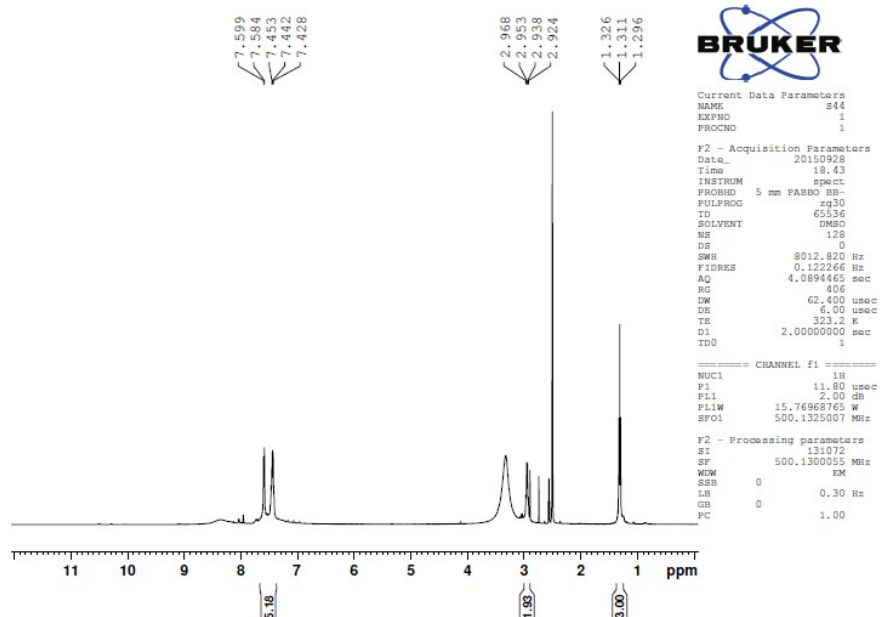


mohamed-abd-alsalam-44 #3-298 RT: 0.07-5.00 AV: 296 NL: 2.15E7

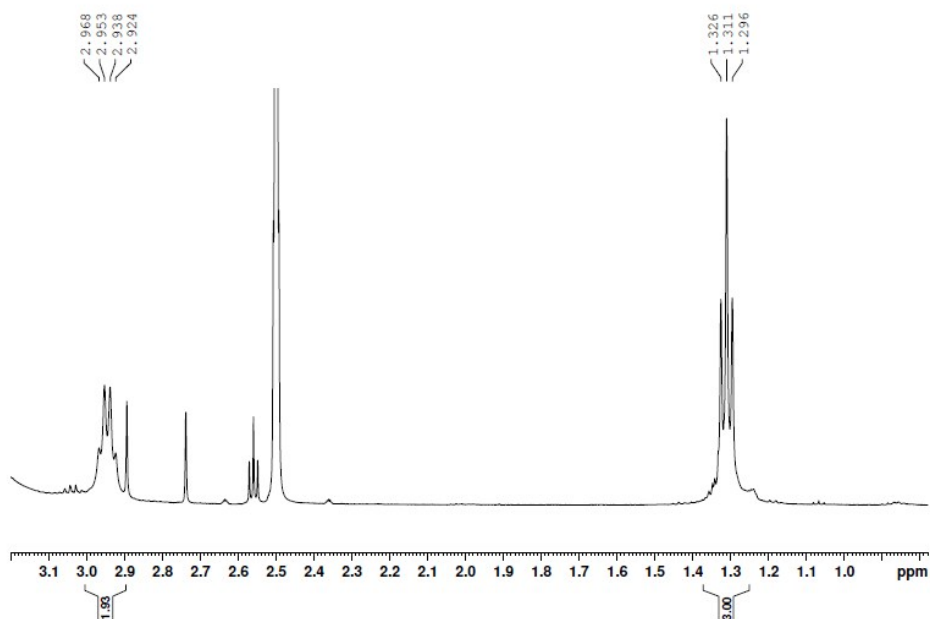
T: {0,0} + c EI Full ms [40.00-1000.00]



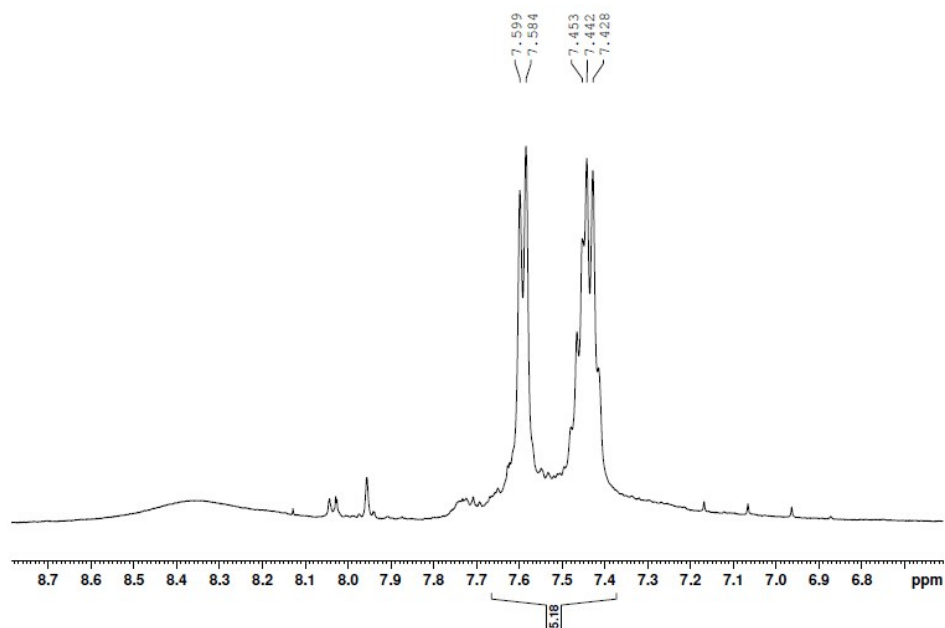
Mass spectrum of 22



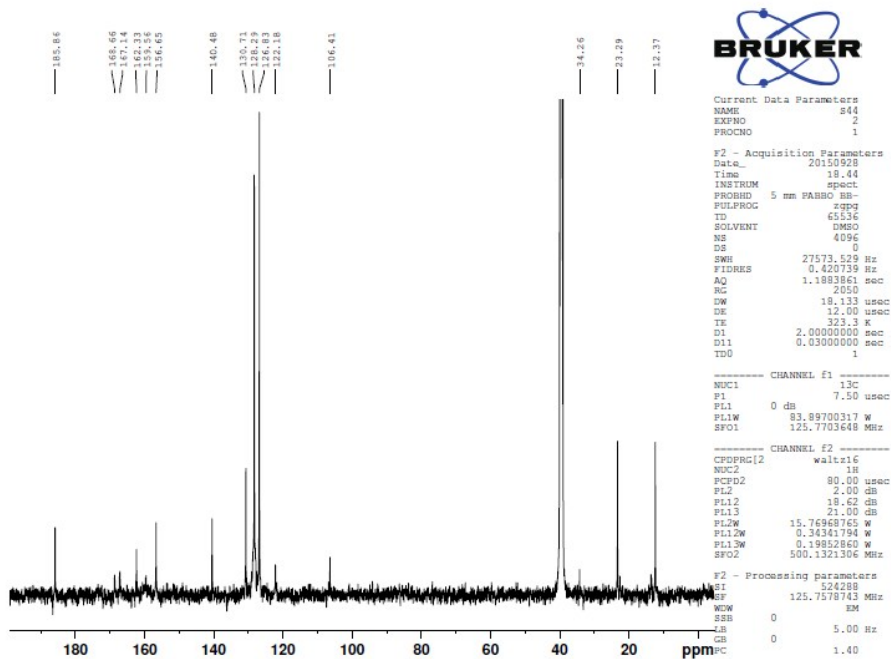
^1H NMR OF 22



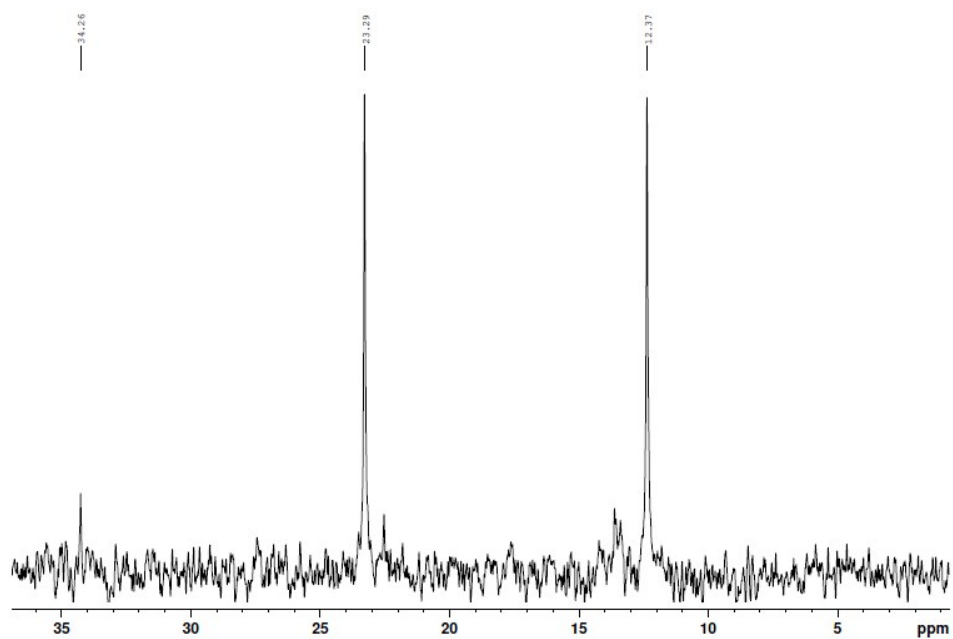
Expanded ^1H NMR OF 22



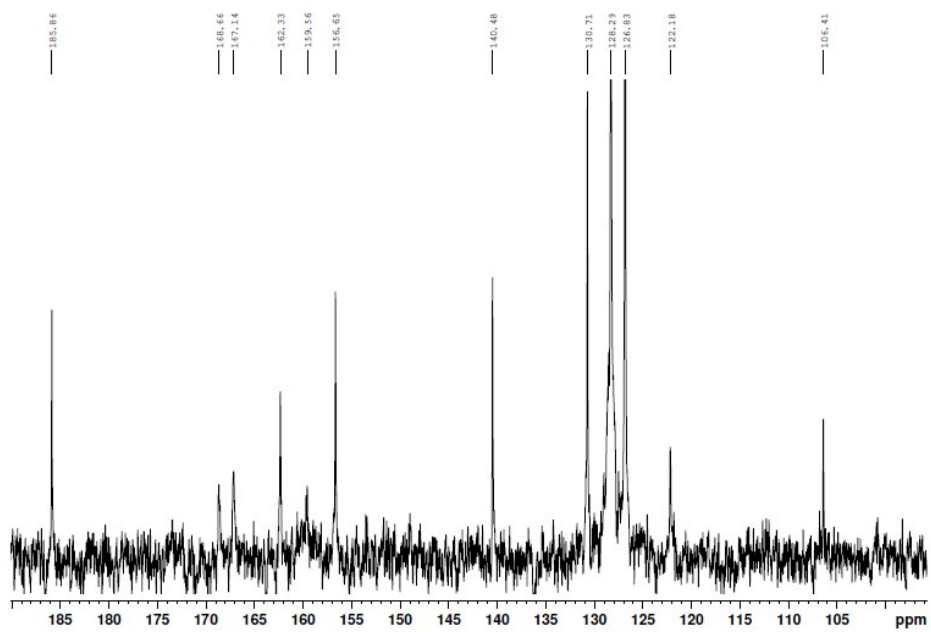
Expanded ^1H NMR OF 22



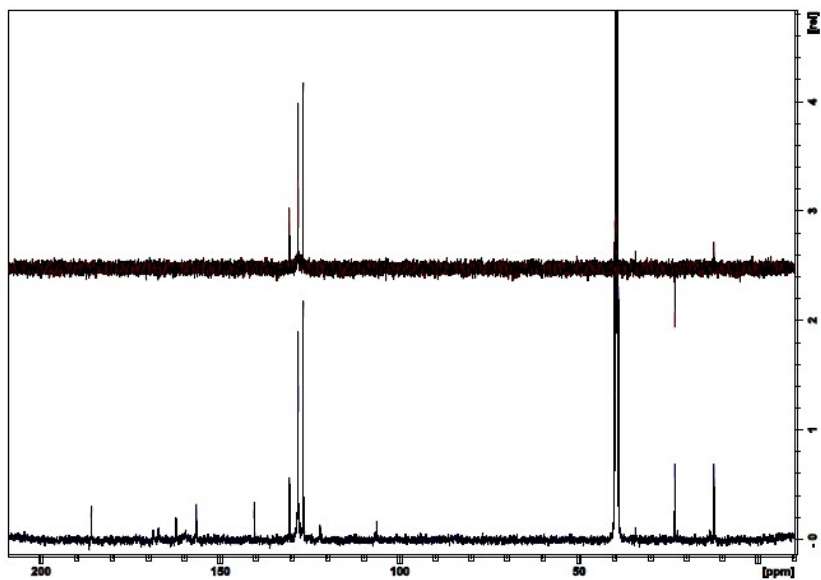
^{13}C NMR OF 22



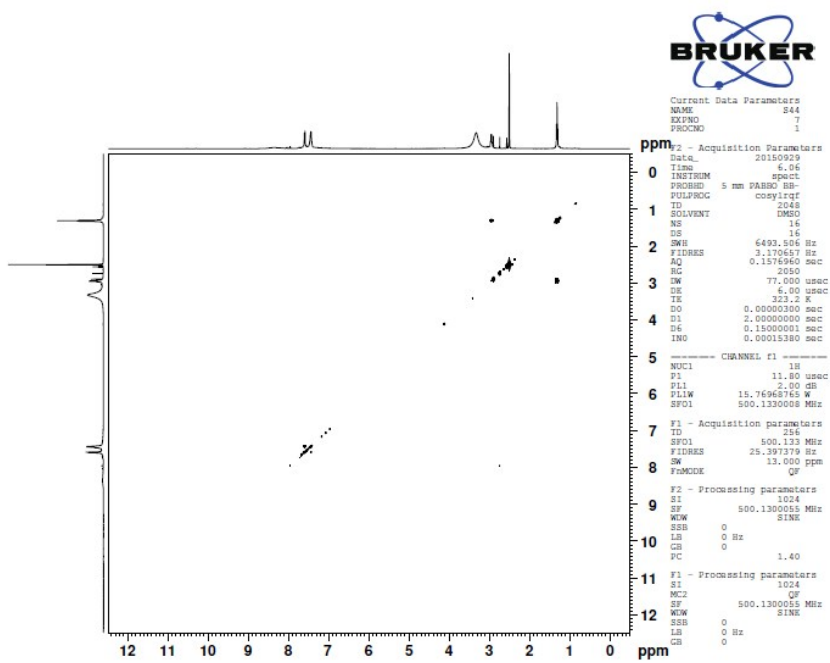
Expanded ^{13}C NMR OF 22



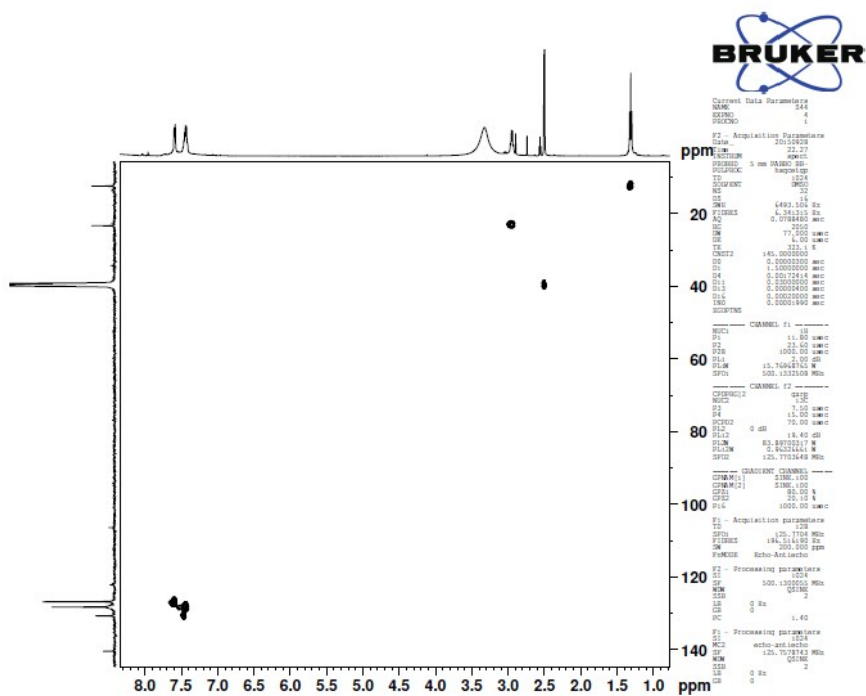
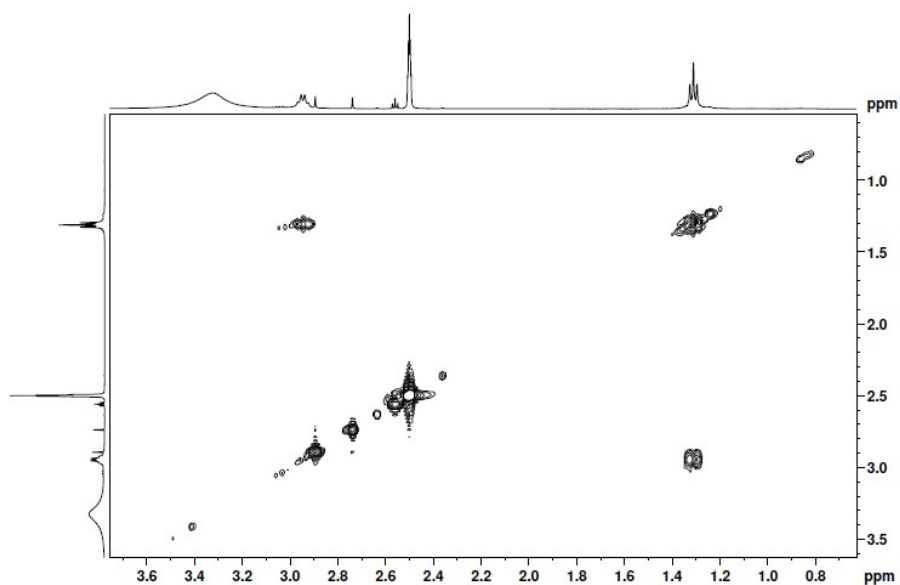
Expanded ^{13}C NMR OF 22

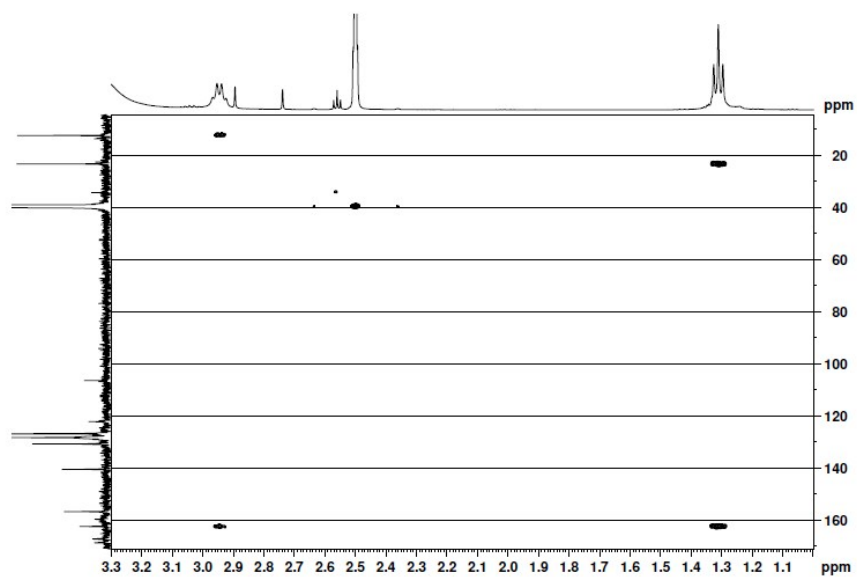


DEPT ^{13}C NMR OF 22

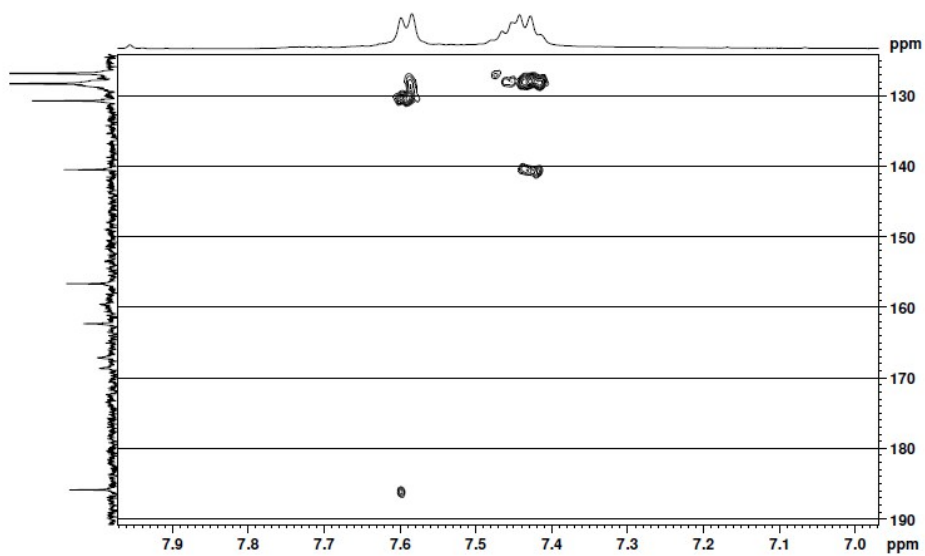


H-H COSY OF 22



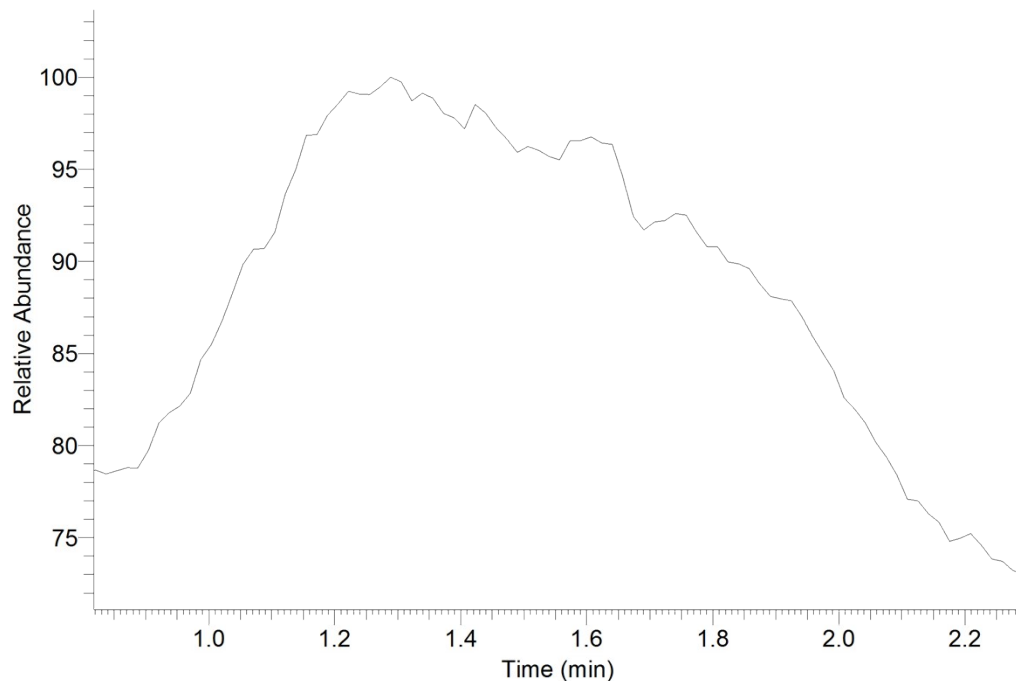


Expanded HMBC OF 22



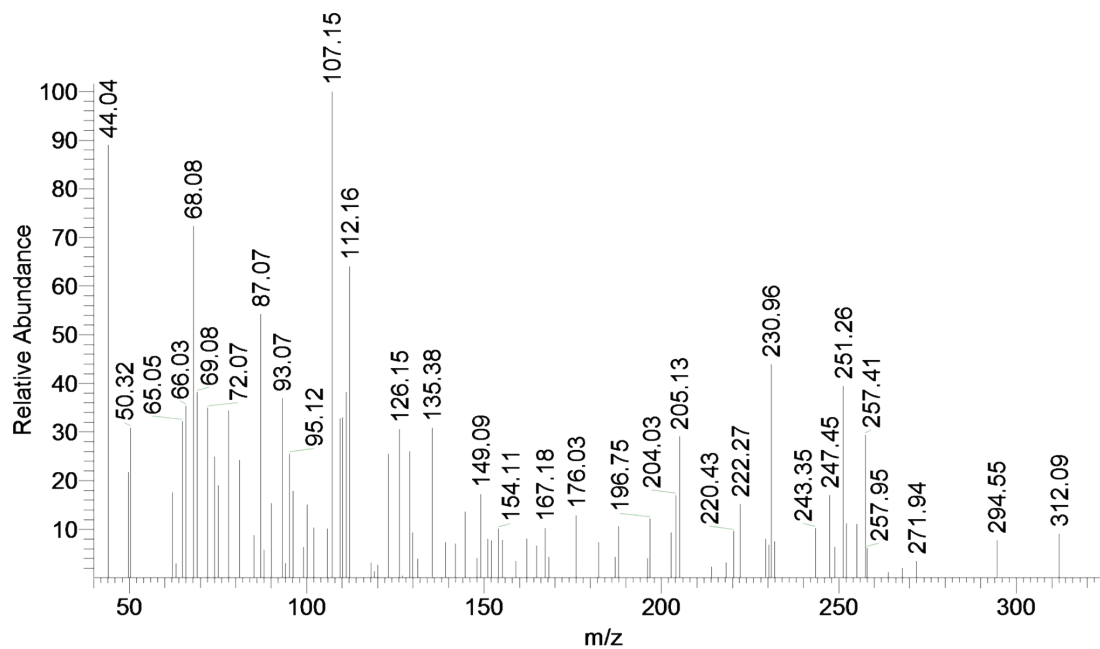
Expanded HMBC OF 22

RT: 0.82 - 2.29 SM: 15B



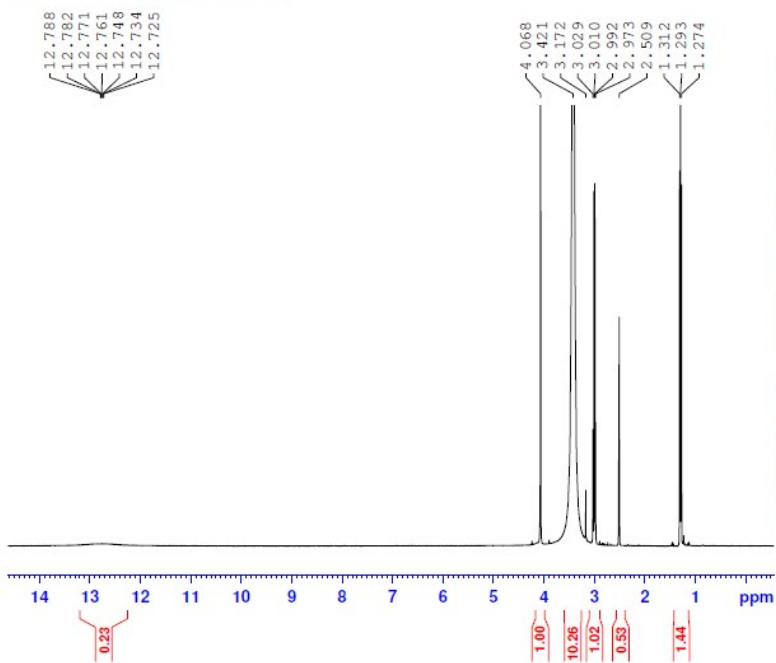
NL:
1.09E7
TIC MS
mohamed-
abd-
alsalam-54

mohamed-abd-alsalam-54 #112 RT: 1.89 AV: 1 SB: 8 1.92-2.03 , 1.97 NL: 3.16E3
T: {0,0} + c EI Full ms [40.00-1000.00]



Mass spectrum of 23

M.ABDELSALAM-49
 PROTON_BSUS DMSO (C:\data) nmr 12



Current Data Parameters
 NAME Apr21-2016-nmr
 EXPNO 110
 PROCNO 1

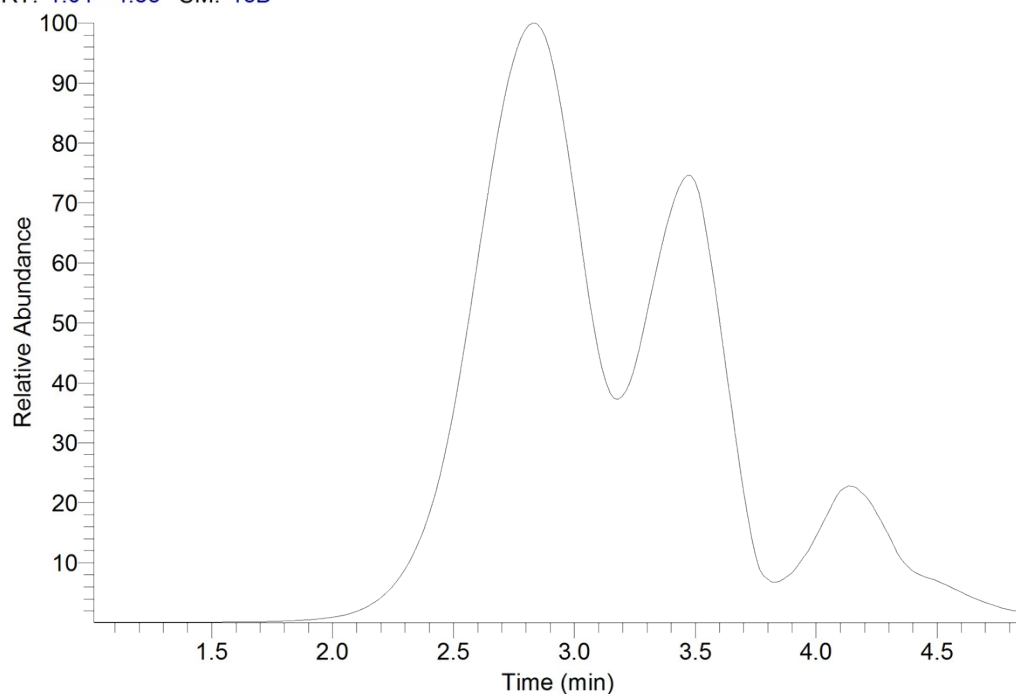
F2 - Acquisition Parameters
 Date_ 20160421
 Time 10.33
 INSTRUM spect
 PROBHD 5 mm PABBO BH/
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0884465 sec
 RG 147.93
 DW 62.400 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 TDO 1

===== CHANNEL F1 =====
 SFO1 400.1324710 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 16.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.10 Hz
 CB 0
 PC 1.00

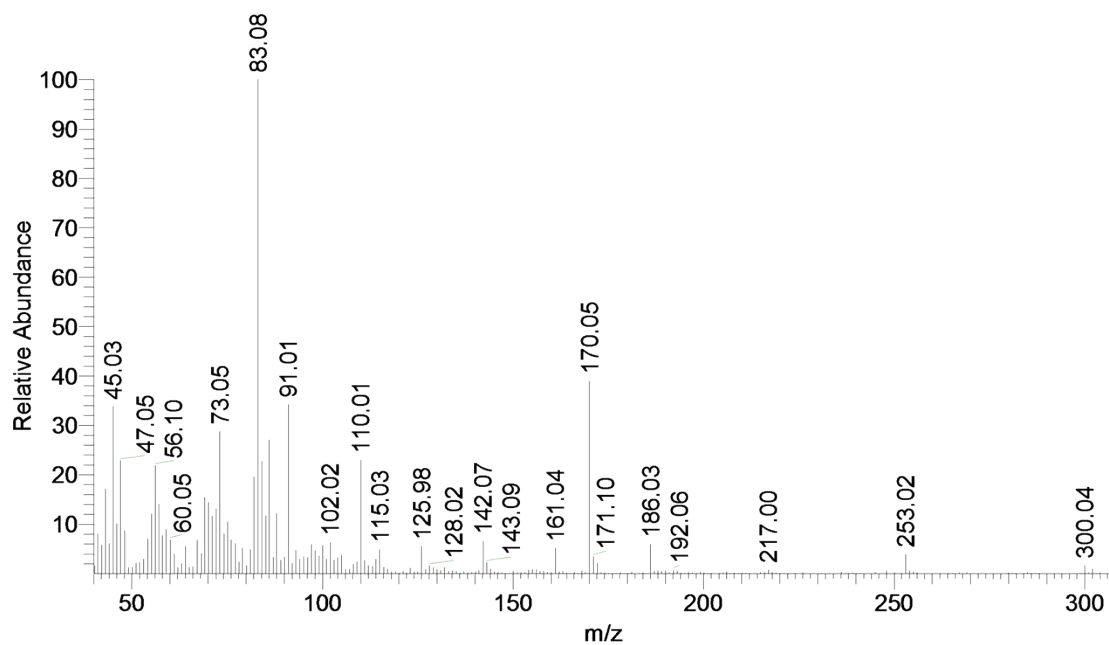
¹H NMR OF 23

RT: 1.01 - 4.85 SM: 15B



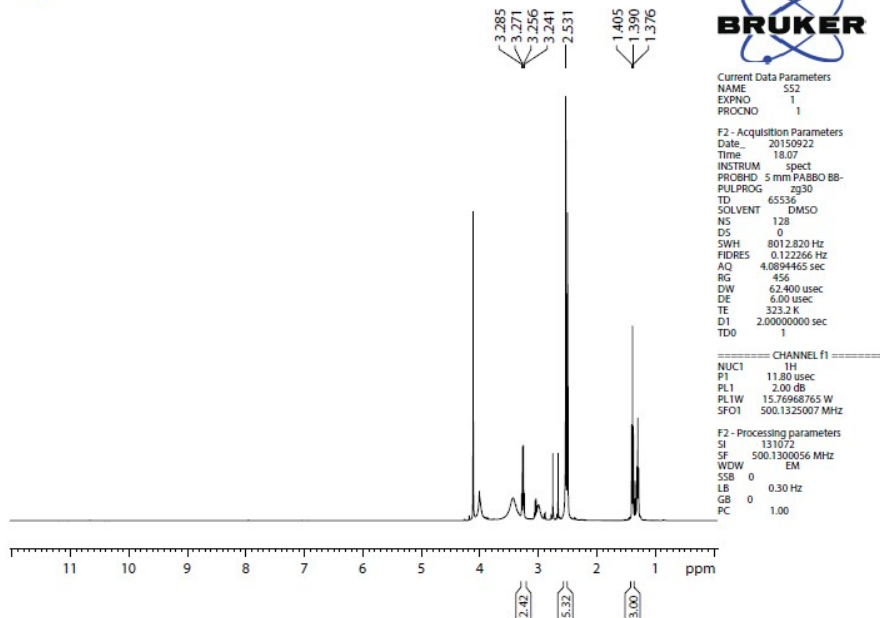
NL:
2.42E8
TIC MS
MOHAMED
-
ABDELSAL
AM-52

MOHAMED-ABDELSALAM-52 #173 RT: 2.91 AV: 1 NL: 2.94E7
T: {0,0} + c EI Full ms [40.00-1000.00]



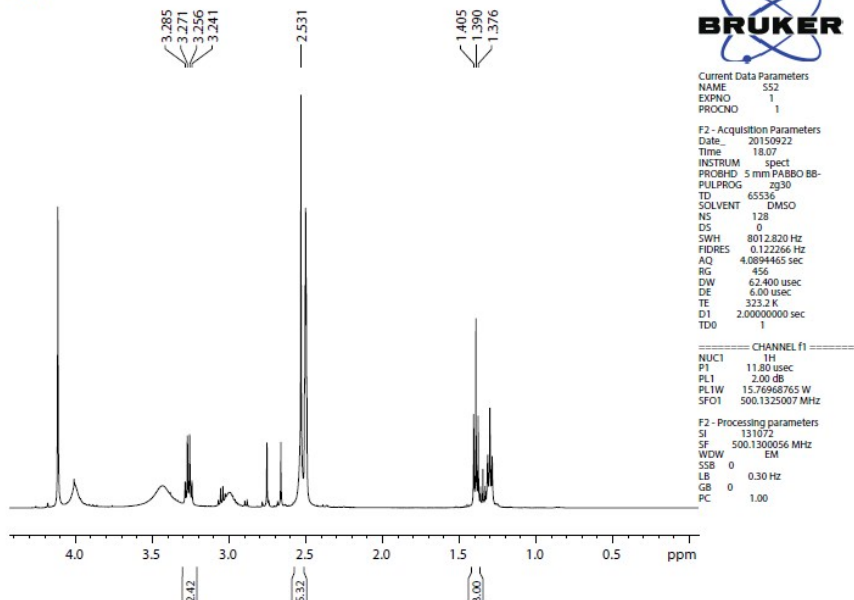
Mass spectrum of 24

@ 50 C

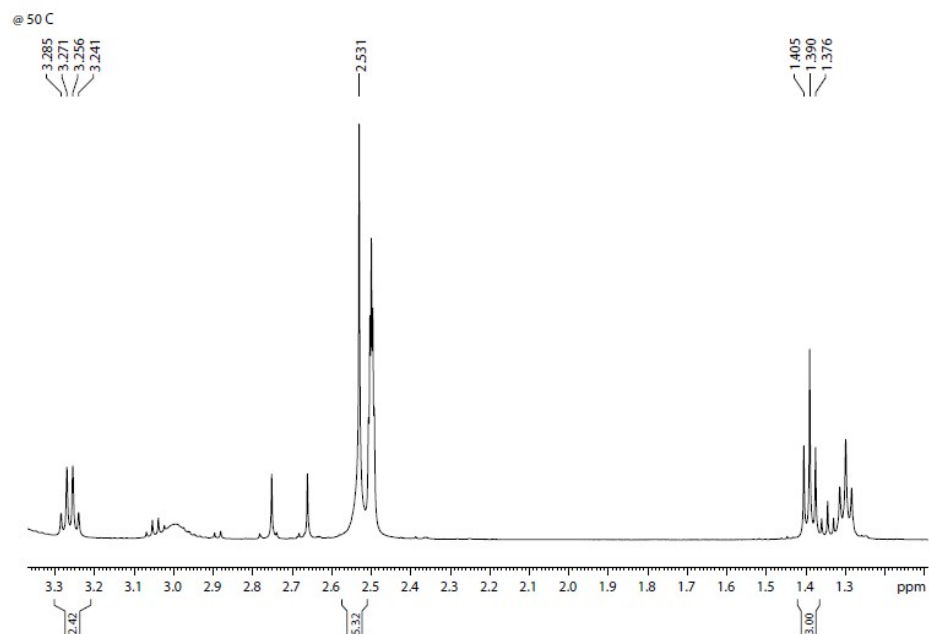


^1H NMR OF 24

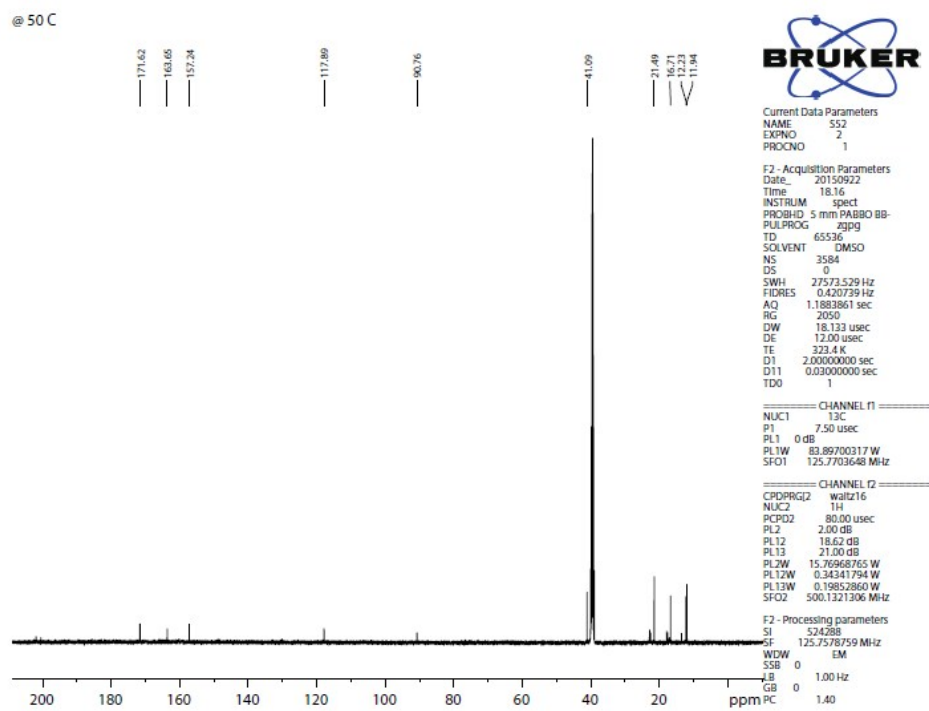
@ 50 C



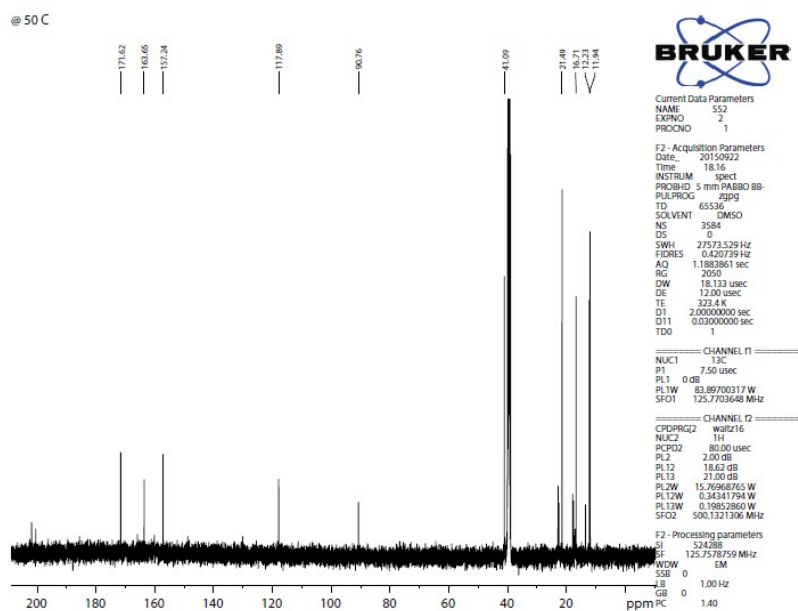
Expanded ^1H NMR OF 24



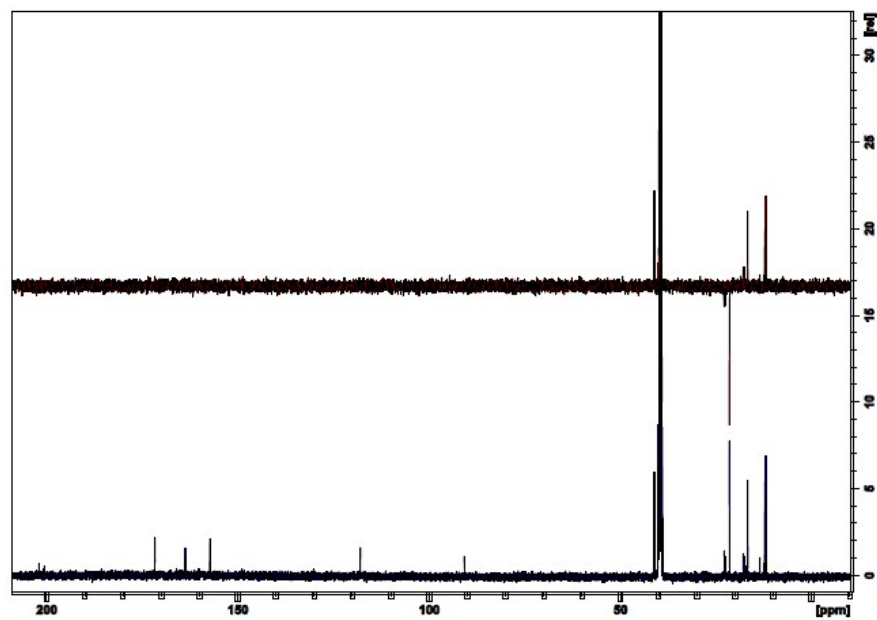
Expanded ^1H NMR OF 24



^{13}C NMR OF 24

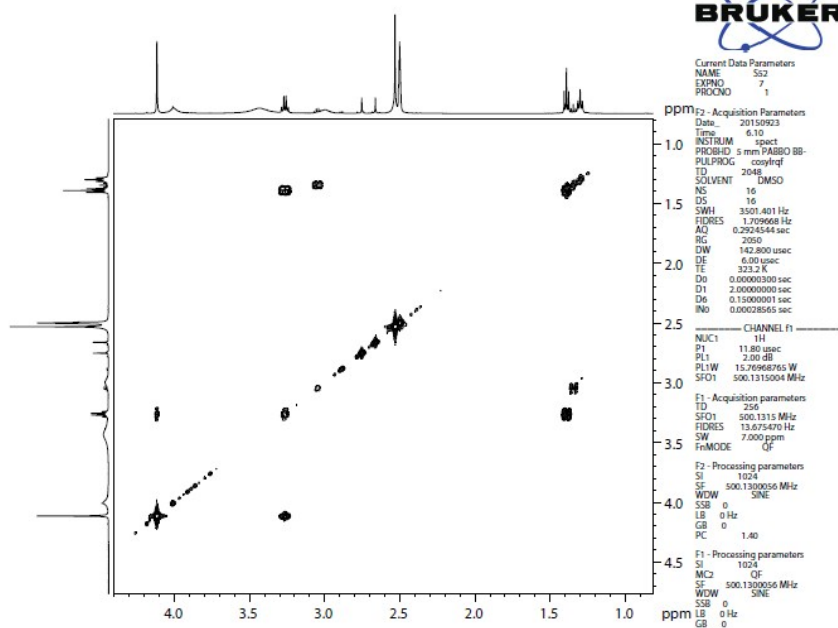


Expanded ^{13}C NMR OF 24



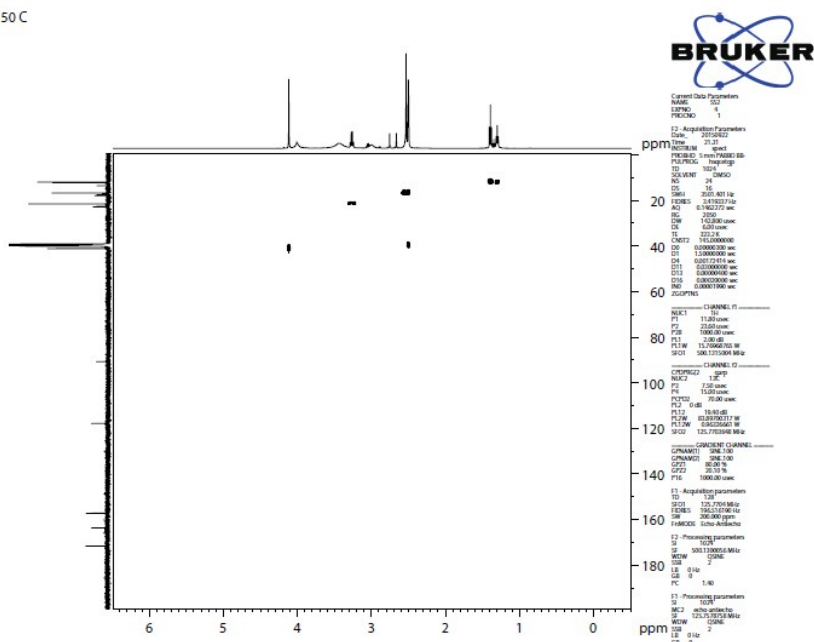
DEPT ^{13}C NMR OF 24

@ 50 C



H-H COSY OF 24

@ 50 C



HSQC OF 24



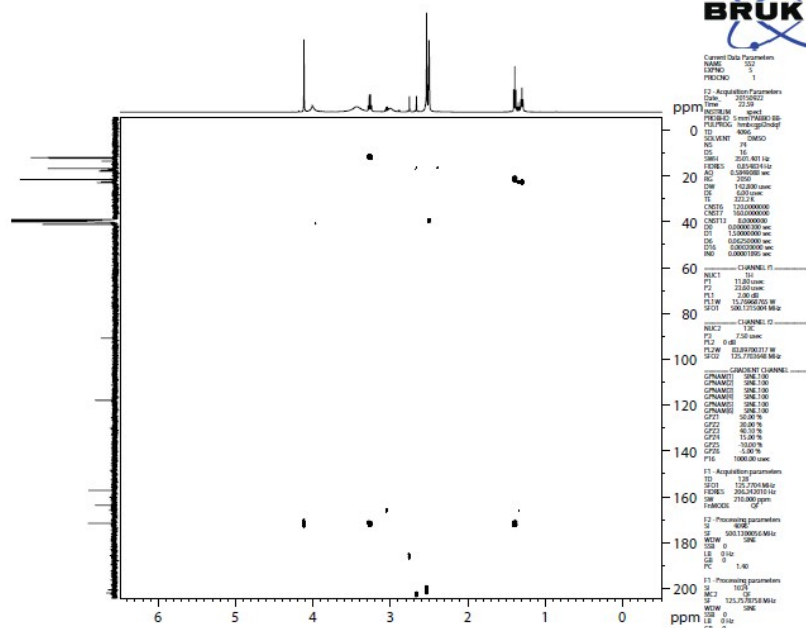
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Current Data Parameters
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1) Acquisition Parameters
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Time: 12:00:00
INSTRUM: 15mm/FANBE/BS
PROBHD: 15mm
PULPROG: zgpg30
TD: 65536
SFO: 400.1460000 MHz
F2: 400.1460000 MHz
F1: 400.1460000 MHz
RG: 32768
RG2: 32768
RG3: 32768
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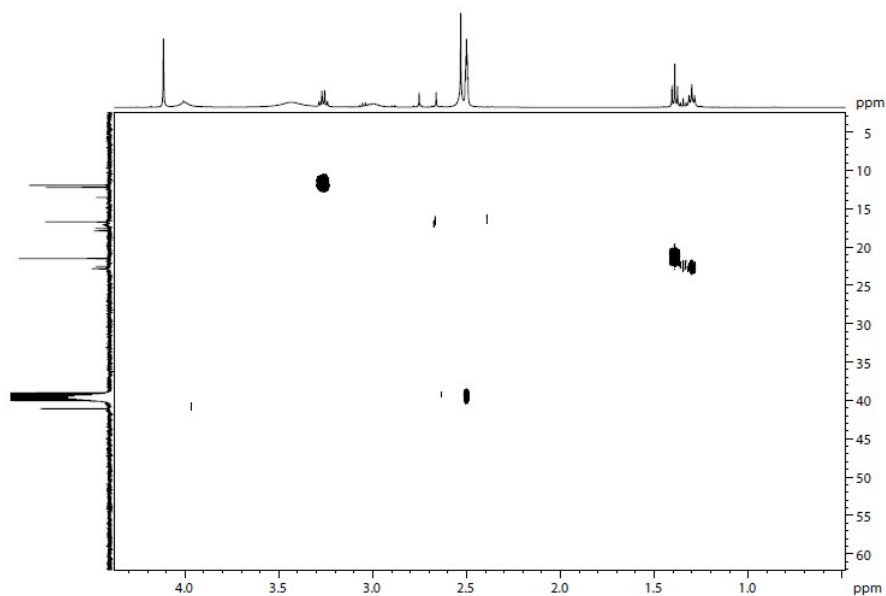


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Current Date: 2010/02/22
Current Time: 12:00:00
CPU: 0
MEMO: 0
T2 - Acquisition Parameters
Date: 2010/02/22
Time: 12:00:00
PROBID: 15mm/FAIRVIEW SS
PROB: 15mm/FAIRVIEW SS
SUBJECT:
SEX:
AGE:
NO: 24
NO. OF MEASUREMENTS: 1
FREQ: 1.4137171 MHz
P1: 1.0000000 sec
RG: 7.000 sec
RG2: 7.0000000 sec
RG3: 7.0000000 sec
RG4: 7.0000000 sec
RG5: 7.0000000 sec
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RG8: 7.0000000 sec
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RG10: 7.0000000 sec
ZGAIN: 1
CH1NAME: F1
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CH137: 1.0000000 sec
CH138: 1.0000000 sec
CH139: 1.0000000 sec
CH140: 1.0000000 sec
CH141: 1.0000000 sec
CH142: 1.0000000 sec
CH143: 1.0000000 sec
CH144: 1.0000000 sec
CH145: 1.0000000 sec
CH146: 1.0000000 sec
CH147: 1.0000000 sec
CH148: 1.0000000 sec
CH149: 1.0000000 sec
CH150: 1.0000000 sec
CH151: 1.0000000 sec
CH152: 1.0000000 sec
CH153: 1.0000000 sec
CH154: 1.0000000 sec
CH155: 1.0000000 sec
CH156: 1.0000000 sec
CH157: 1.0000000 sec
CH158: 1.0000000 sec
CH159: 1.0000000 sec
CH160: 1.0000000 sec
CH161: 1.0000000 sec
CH162: 1.0000000 sec
CH163: 1.0000000 sec
CH164: 1.0000000 sec
CH165: 1.0000000 sec
CH166: 1.0000000 sec
CH167: 1.0000000 sec
CH168: 1.0000000 sec
CH169: 1.0000000 sec
CH170: 1.0000000 sec
CH171: 1.0000000 sec
CH172: 1.0000000 sec
CH173: 1.0000000 sec
CH174: 1.0000000 sec
CH175: 1.0000000 sec
CH176: 1.0000000 sec
CH177: 1.0000000 sec
CH178: 1.0000000 sec
CH179: 1.0000000 sec
CH180: 1.0000000 sec
CH181: 1.0000000 sec
CH182: 1.0000000 sec
CH183: 1.0000000 sec
CH184: 1.0000000 sec
CH185: 1.0000000 sec
CH186: 1.0000000 sec
CH187: 1.0000000 sec
CH188: 1.0000000 sec
CH189: 1.0000000 sec
CH190: 1.0000000 sec
CH191: 1.0000000 sec
CH192: 1.0000000 sec
CH193: 1.0000000 sec
CH194: 1.0000000 sec
CH195: 1.0000000 sec
CH196: 1.0000000 sec
CH197: 1.0000000 sec
CH198: 1.0000000 sec
CH199: 1.0000000 sec
CH200: 1.0000000 sec
CH201: 1.0000000 sec
CH202: 1.0000000 sec
CH203: 1.0000000 sec
CH204: 1.0000000 sec
CH205: 1.0000000 sec
CH206: 1.0000000 sec
CH207: 1.0000000 sec
CH208: 1.0000000 sec
CH209: 1.0000000 sec
CH210: 1.0000000 sec
CH211: 1.0000000 sec
CH212: 1.0000000 sec
CH213: 1.0000000 sec
CH214: 1.0000000 sec
CH215: 1.0000000 sec
CH216: 1.0000000 sec
CH217: 1.0000000 sec
CH218: 1.0000000 sec
CH219: 1.0000000 sec
CH220: 1.0000000 sec
CH221: 1.0000000 sec
CH222: 1.0000000 sec
CH223: 1.0000000 sec
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CH226: 1.0000000 sec
CH227: 1.0000000 sec
CH228: 1.0000000 sec
CH229: 1.00
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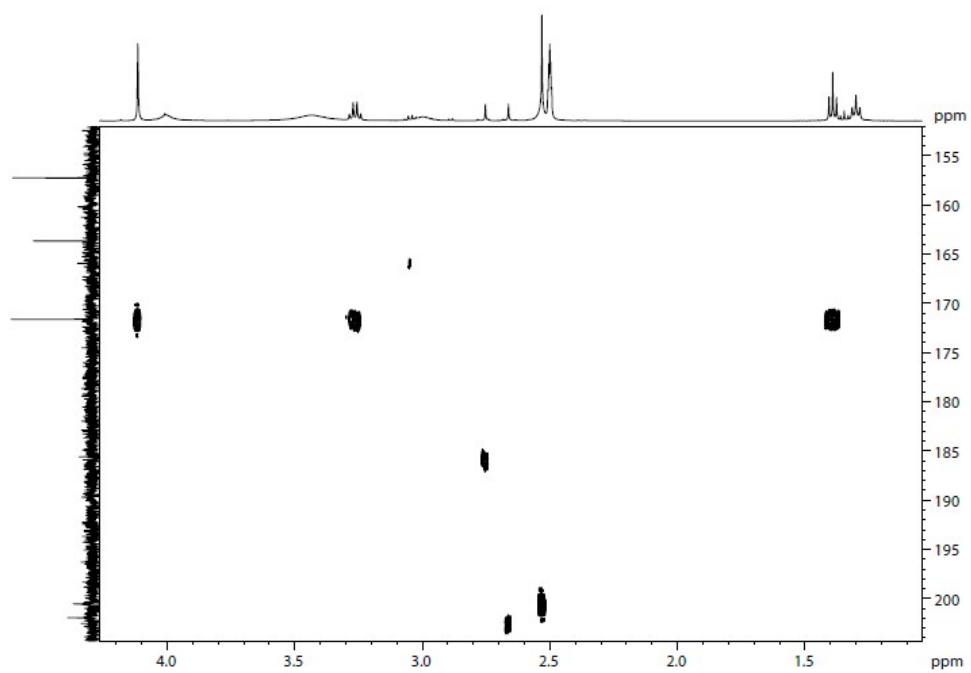


@ 50 C



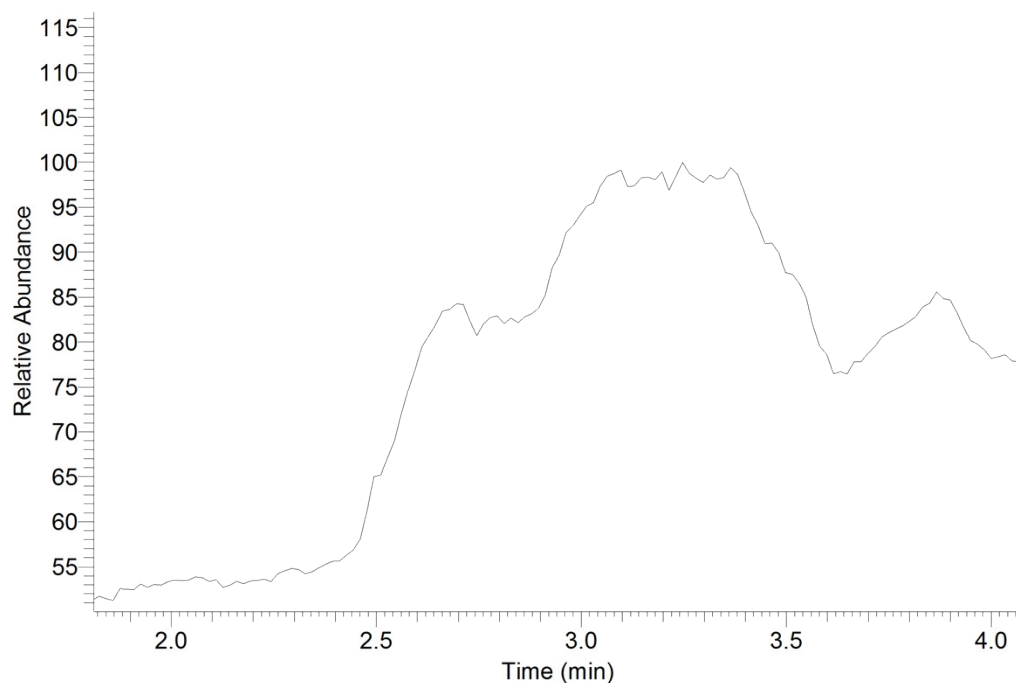
Expanded HMBC OF 24

@ 50 C



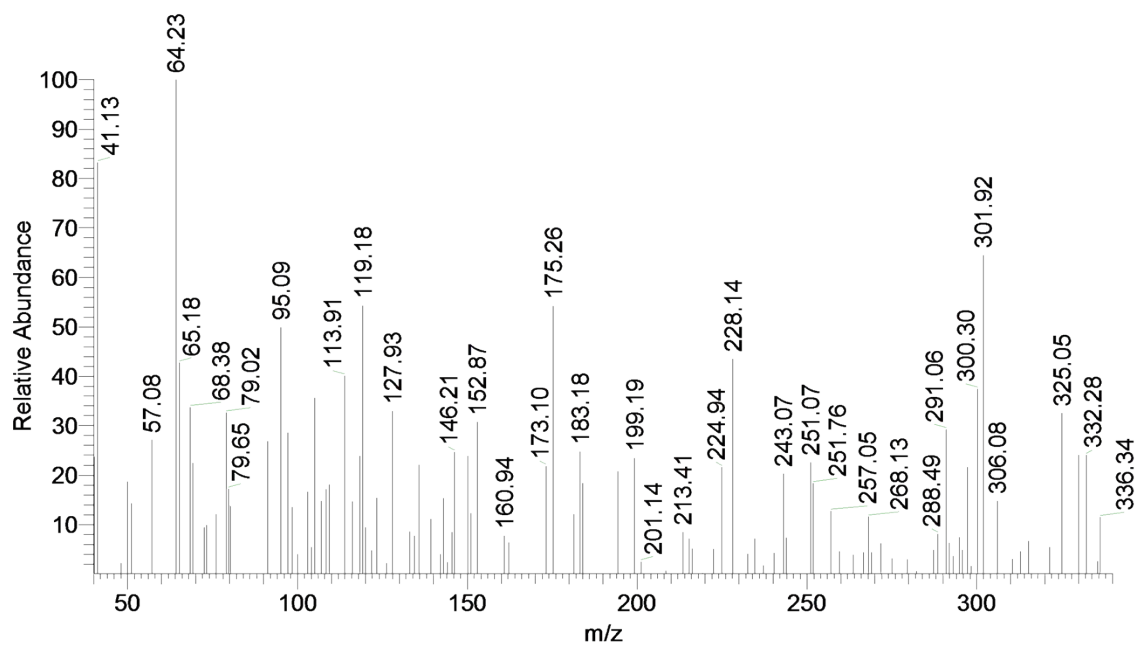
Expanded HMBC OF 24

RT: 1.81 - 4.07 SM: 15B

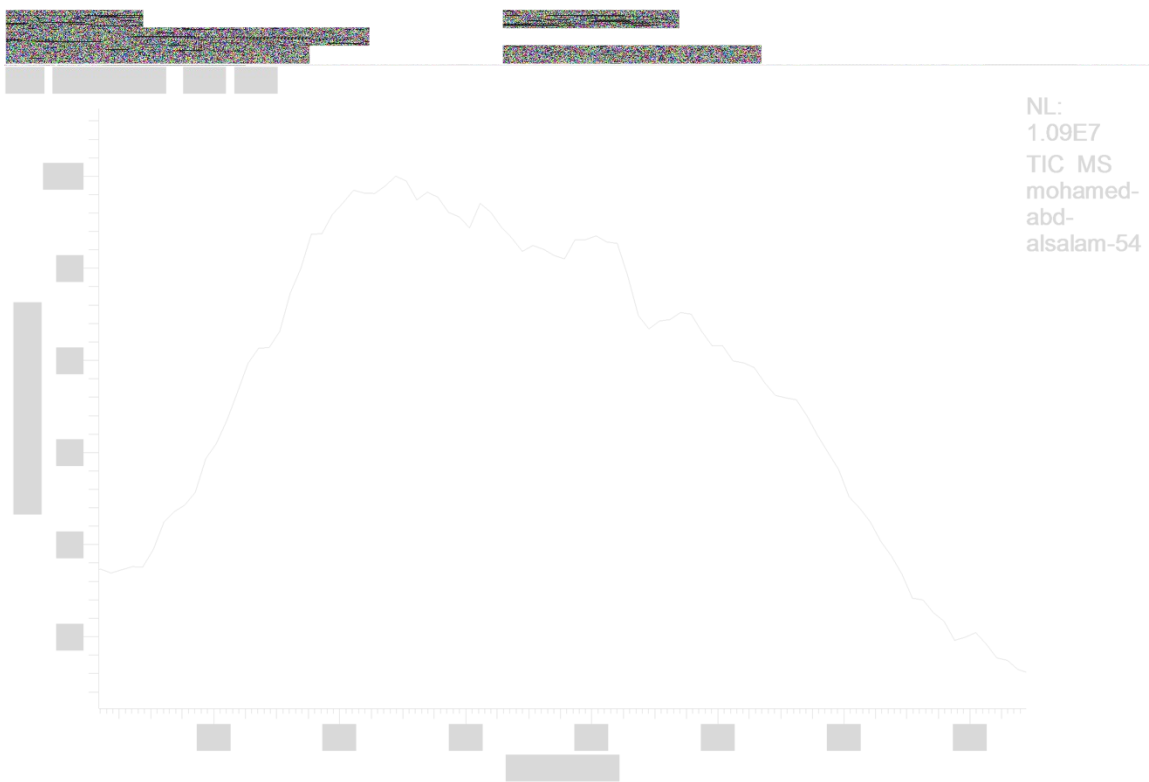


NL:
1.30E6
TIC MS
mohamed-
abd-
alsalam-
56_161127
232251

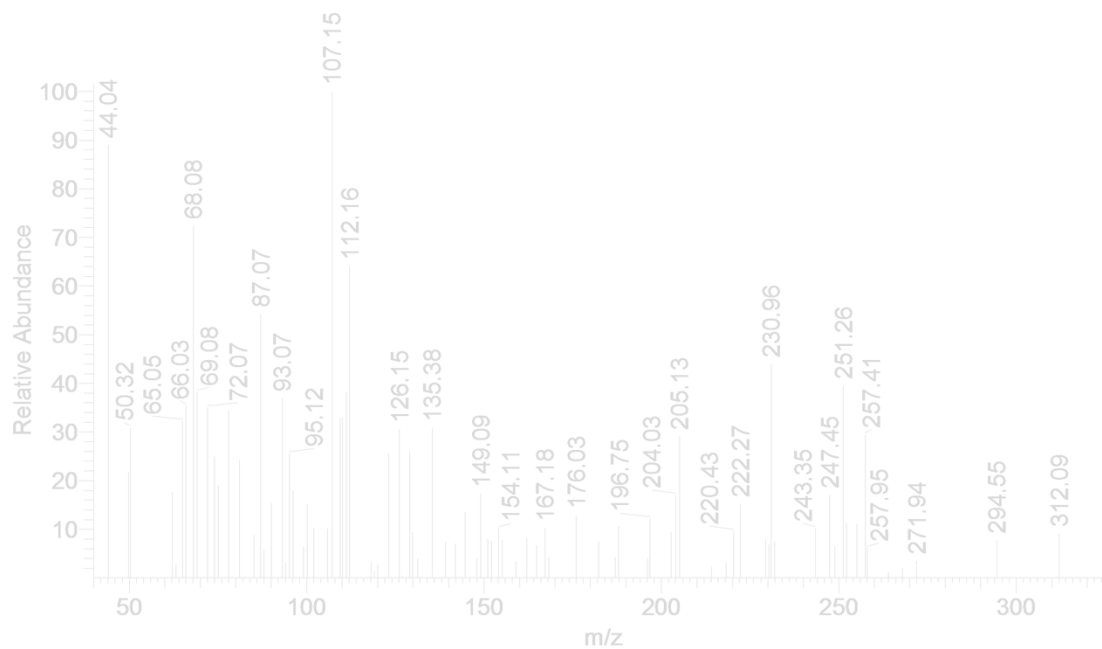
mohamed-abd-alsalam-56_161127232251 #193 RT: 3.25 AV: 1 SB: 2 3.20 , 3.18 NL: 2.14E3
T: {0,0} + c EI Full ms [40.00-1000.00]



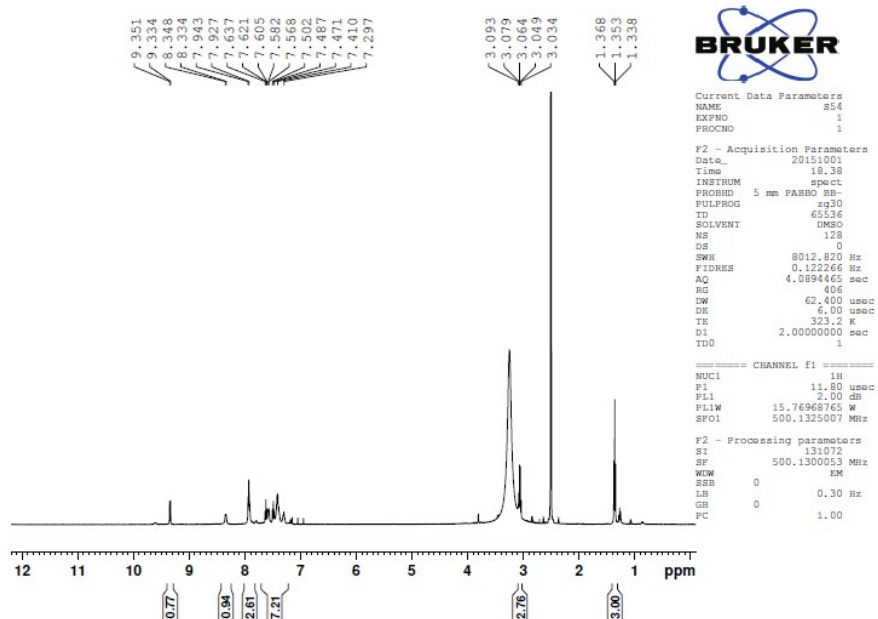
Mass spectrum of 25



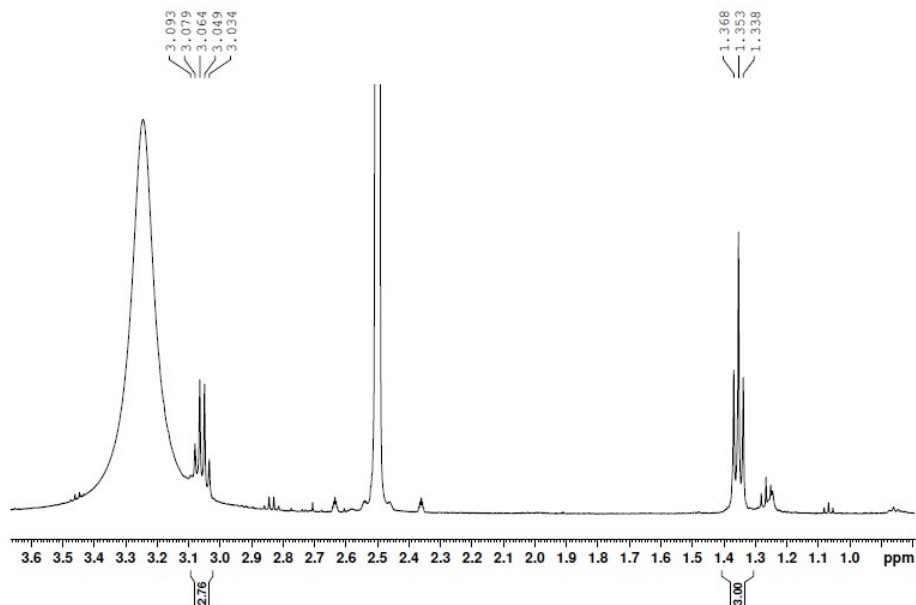
mohamed-abd-alsalam-54 #112 RT: 1.89 AV: 1 SB: 8 1.92-2.03 , 1.97 NL: 3.16E3
T: {0,0} + c EI Full ms [40.00-1000.00]



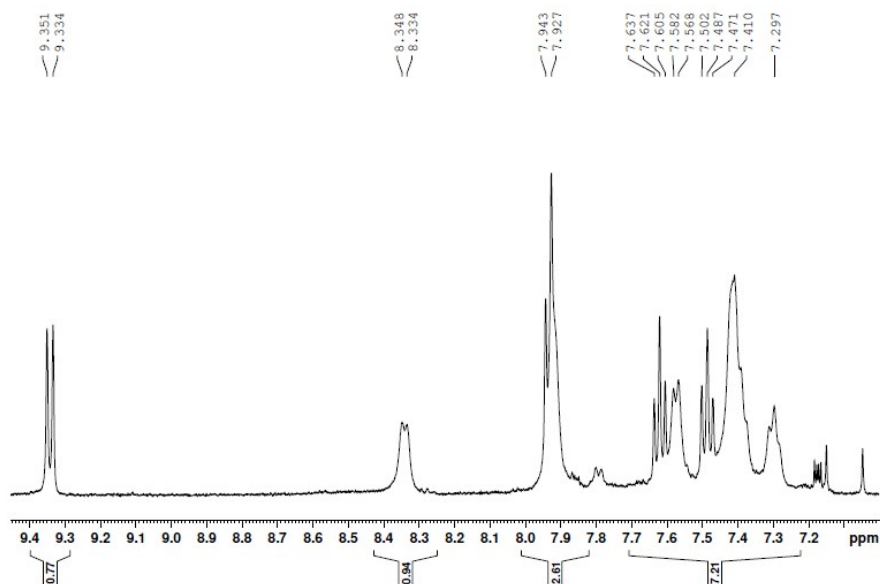
Mass spectrum of 26



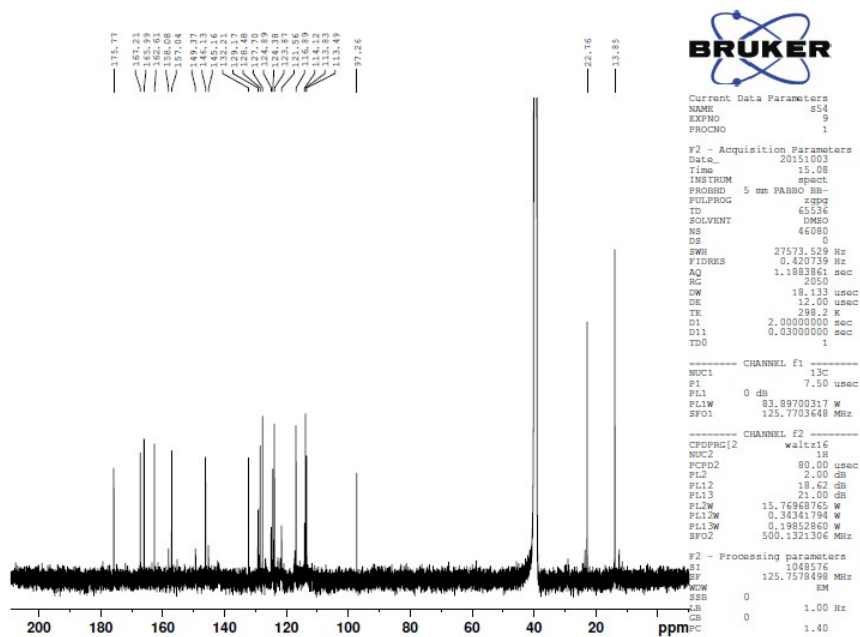
^1H NMR OF 26



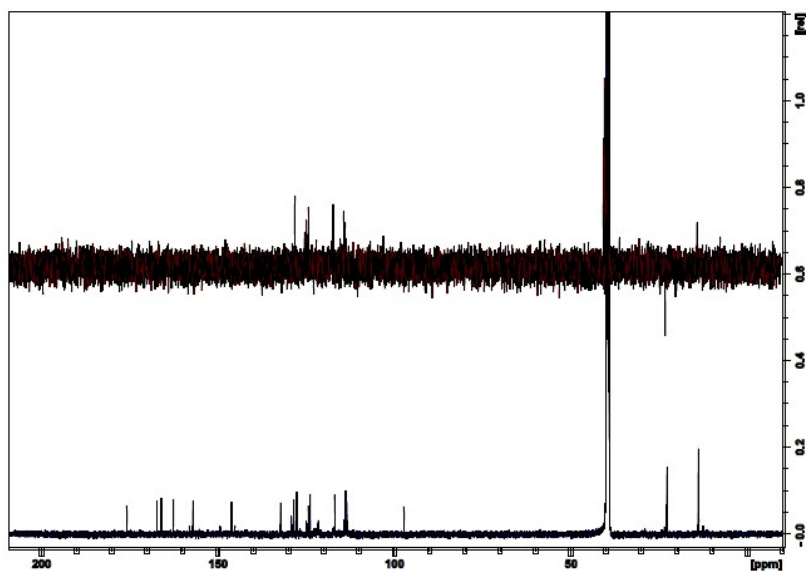
Expanded ^1H NMR OF 26



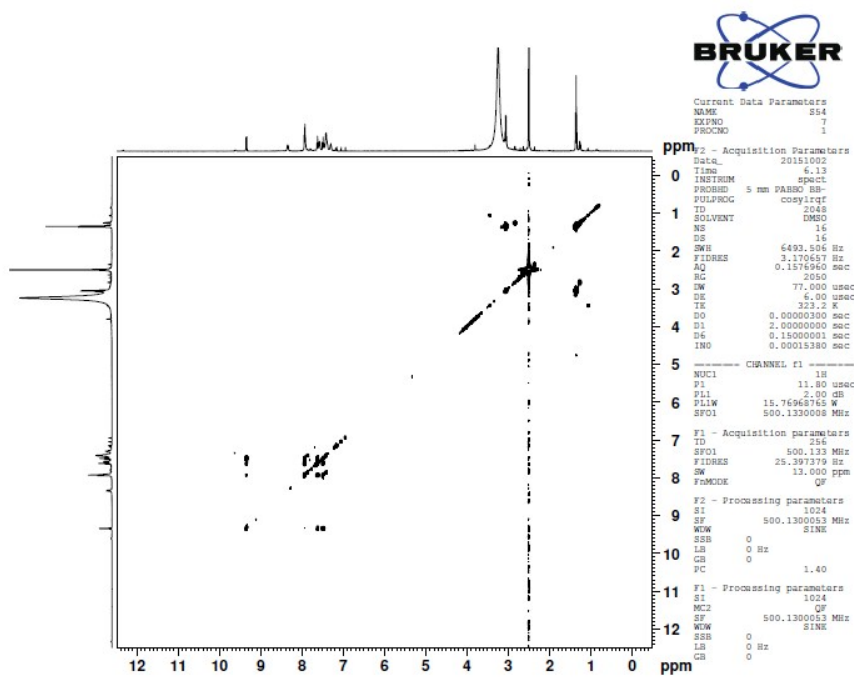
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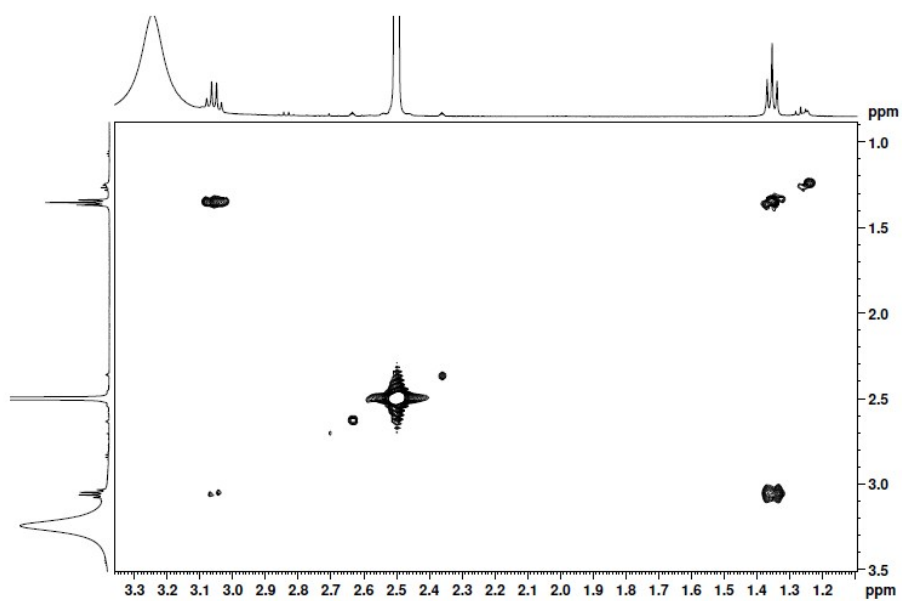
^{13}C NMR OF 26



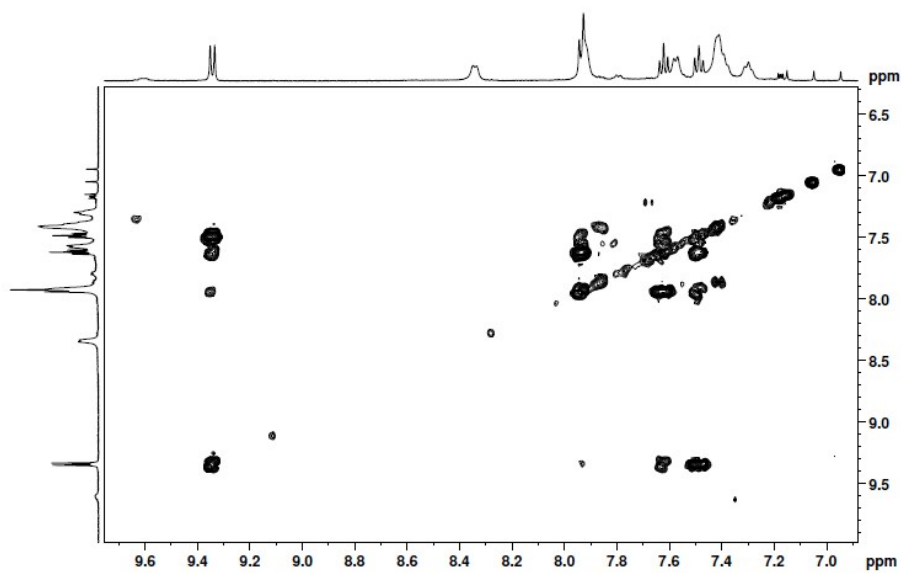
DEPT ^{13}C NMR OF 26



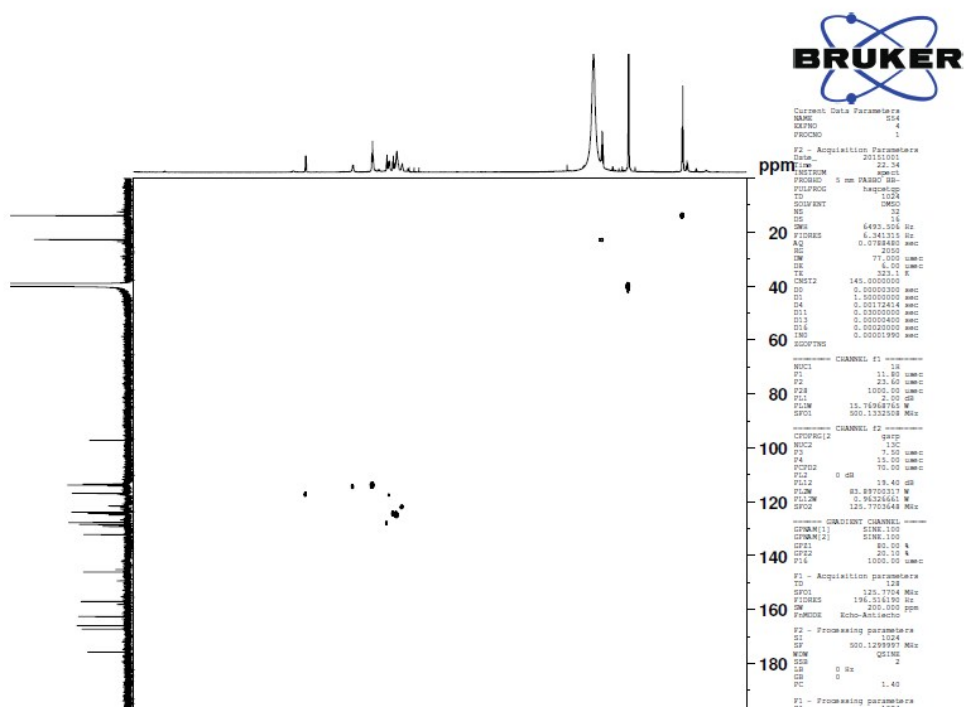
H-H COSY OF 26



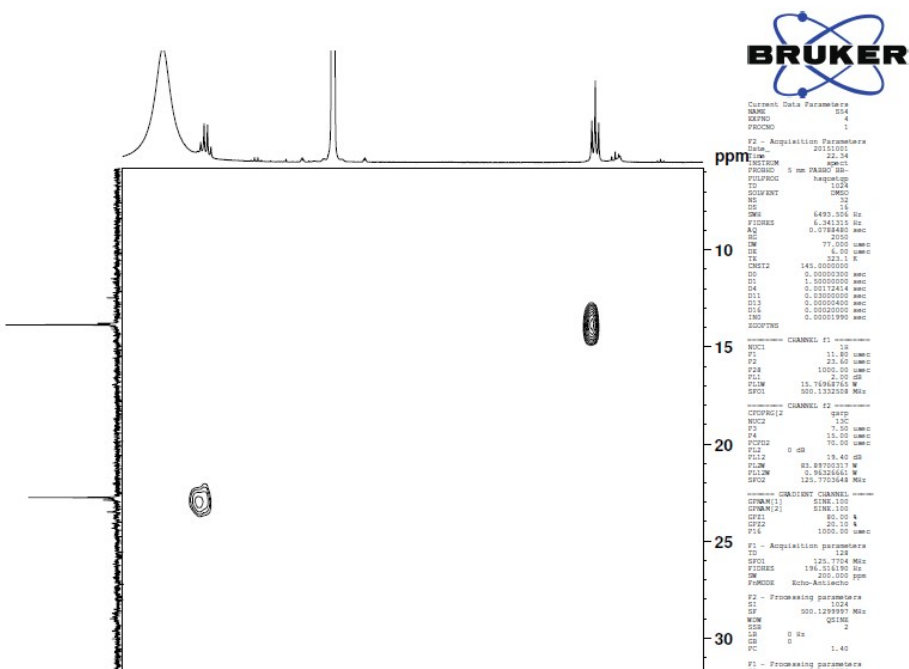
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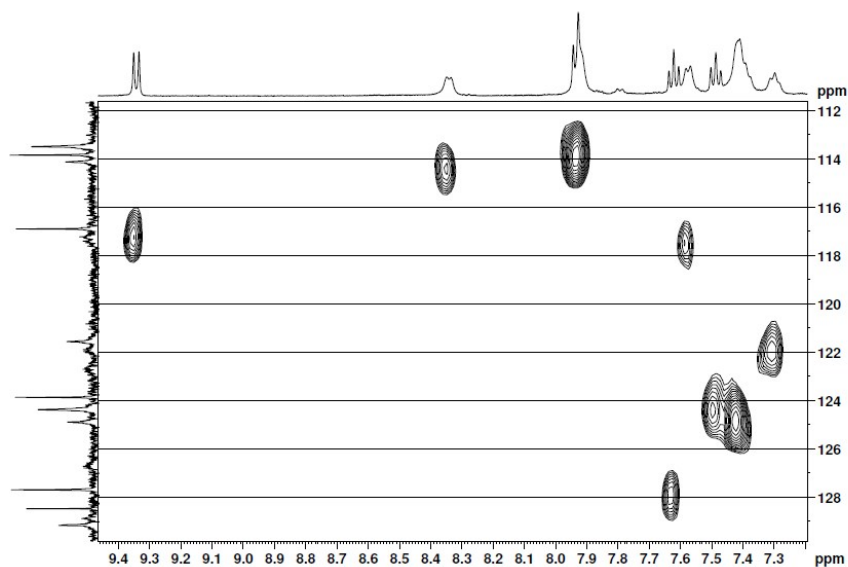
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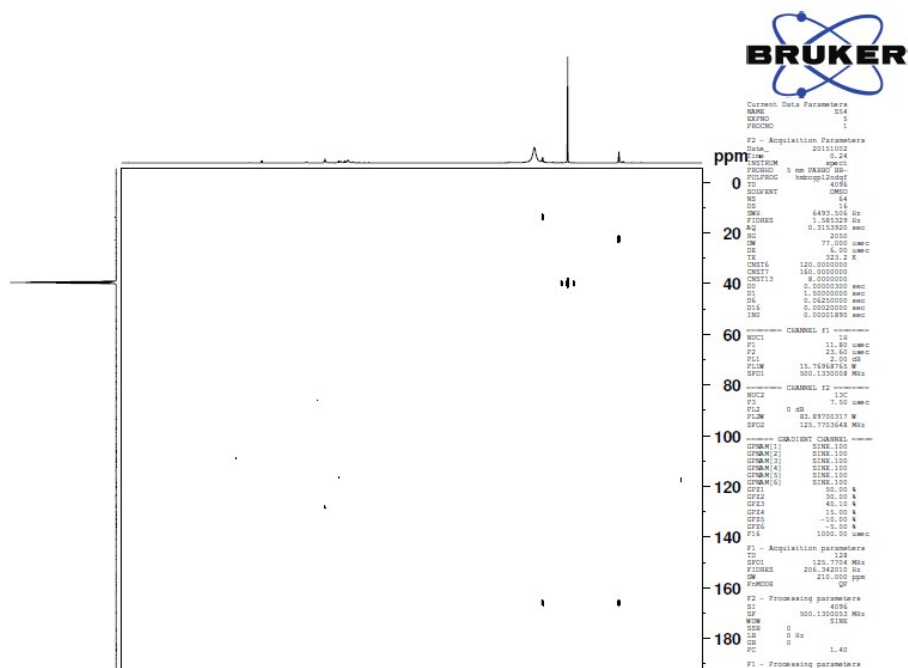
HSQC OF 26



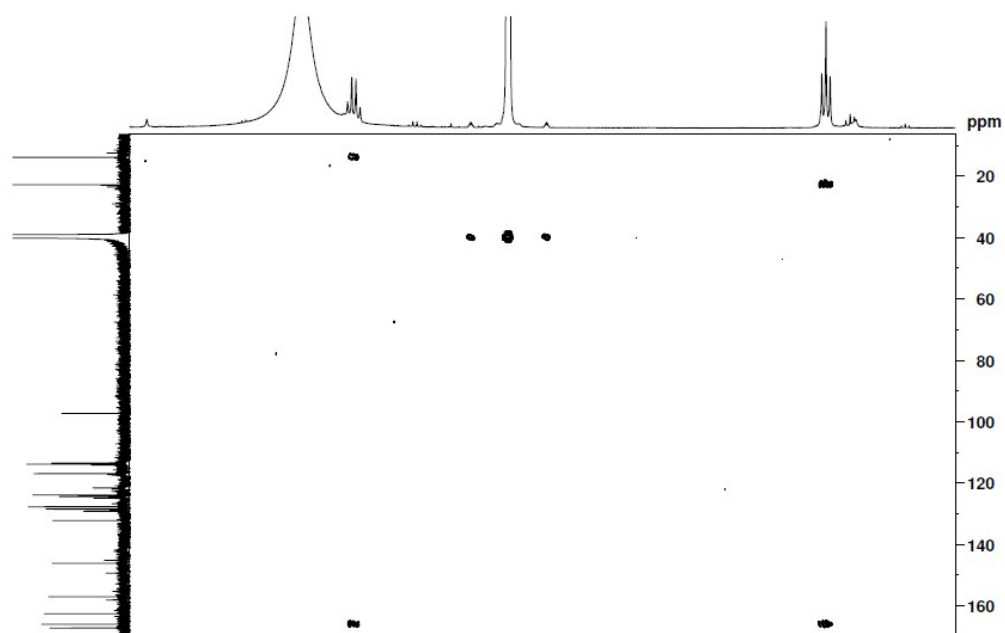
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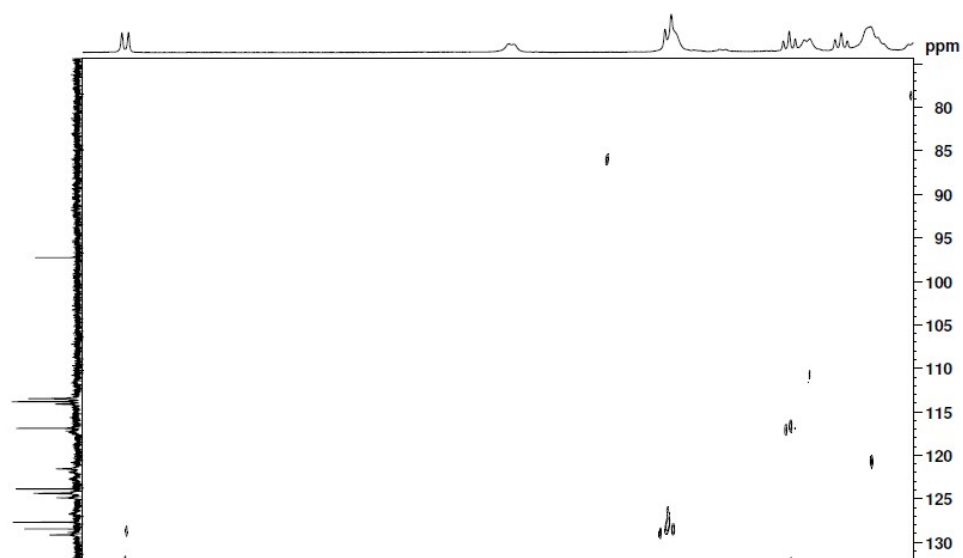
Expanded HSQC OF 26



HMBC OF 26



Expanded HMBC OF 26



Expanded HMBC OF 26