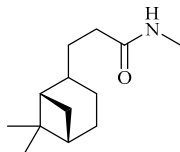


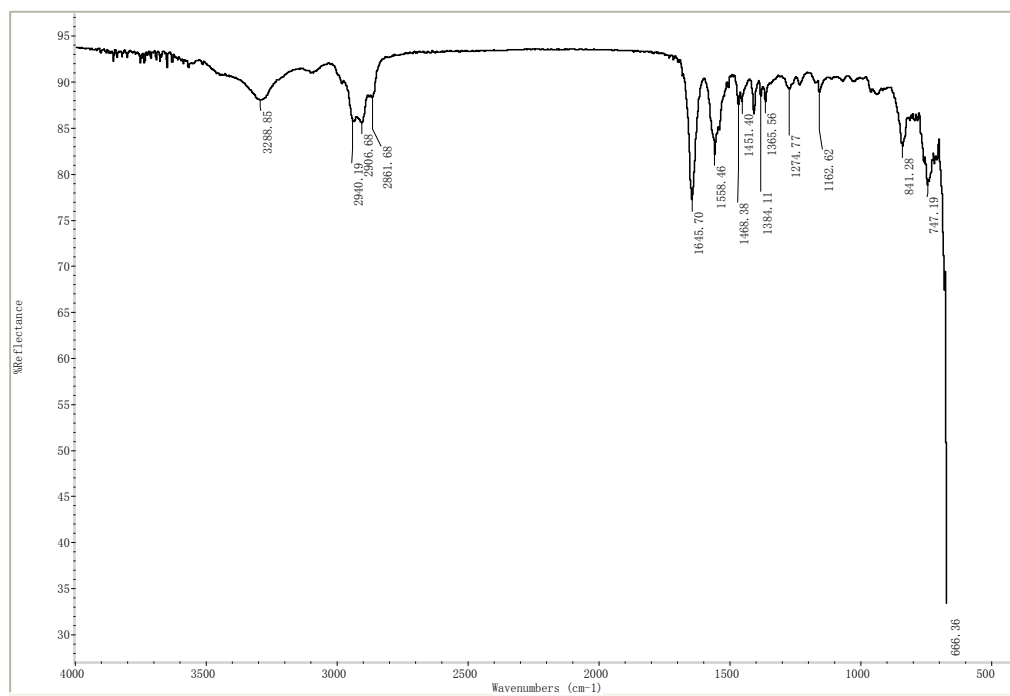
FTIR Spectrums of compound 8a-8g

Compound 8a

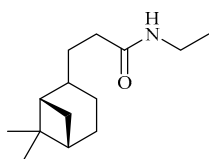


3-((1S,5S)-6,6-dimethylbicyclo[3.1.1]heptan-2-yl)-N-methylpropanamide

FTIR of compound 8a

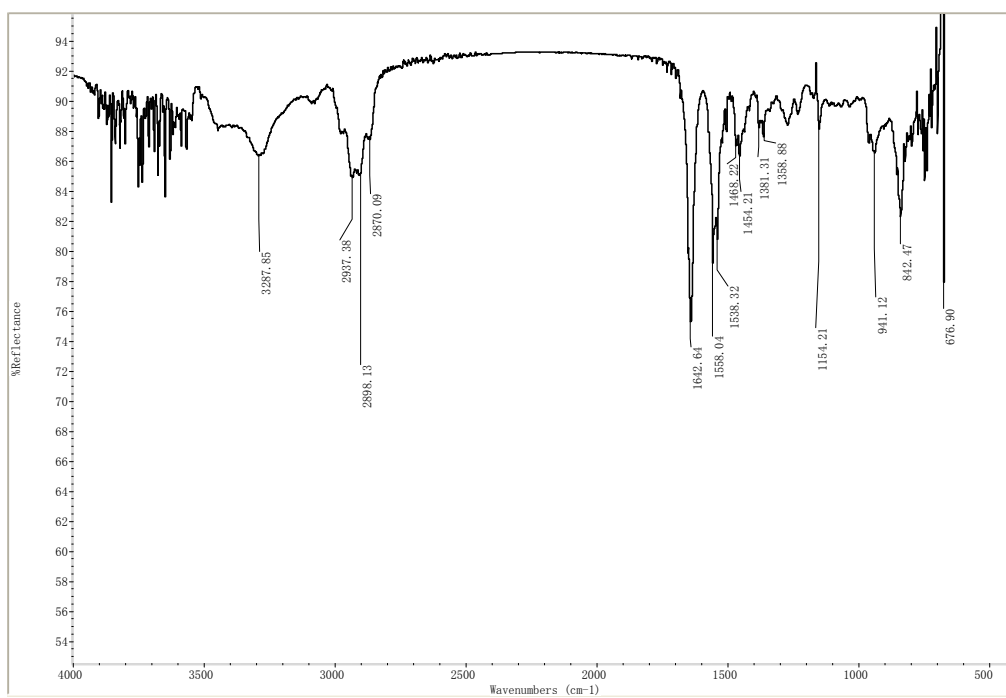


Compound 8b

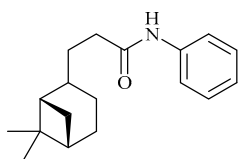


3-((1S,5S)-6,6-dimethylbicyclo[3.1.1]heptan-2-yl)-N-ethylpropanamide

FTIR of compound 8b

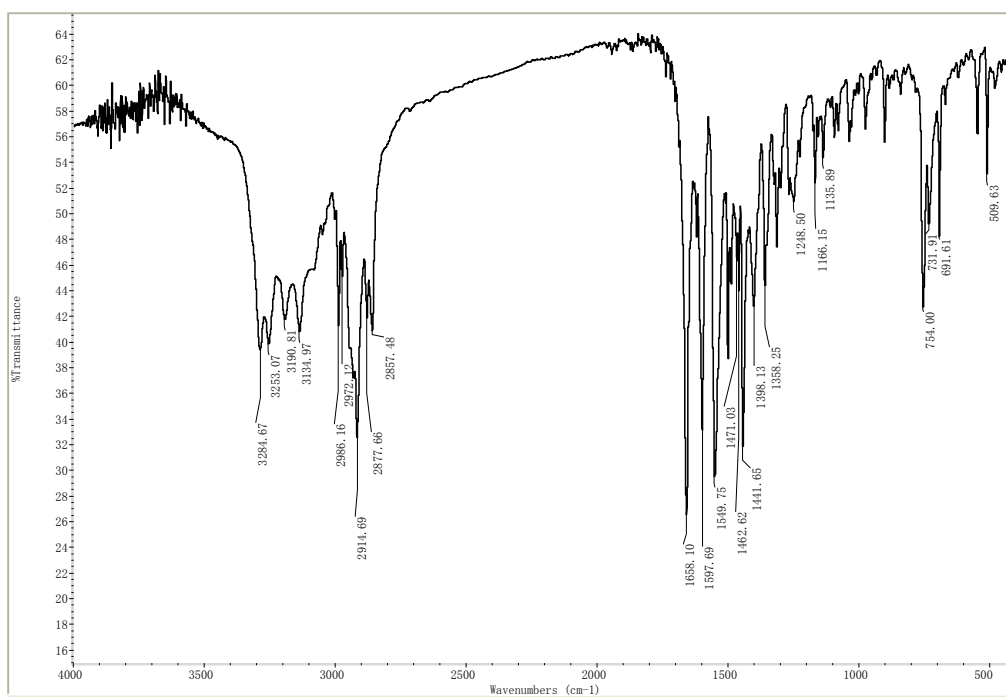


Compound 8c

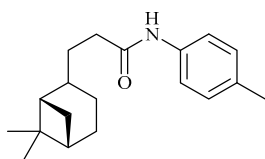


3-((1S,5S)-6,6-dimethylbicyclo[3.1.1]heptan-2-yl)-N-phenylpropanamide

FTIR of compound 8c

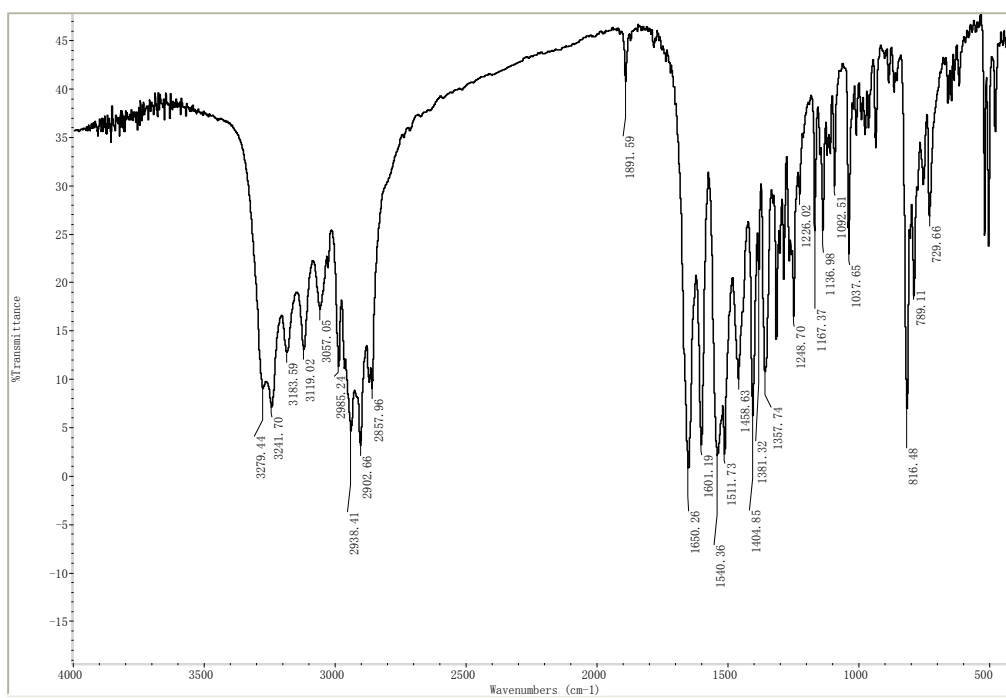


Compound 8d

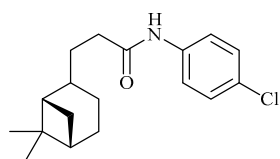


3-((1S,5S)-6,6-dimethylbicyclo[3.1.1]heptan-2-yl)-N-(p-tolyl)propanamide

FTIR of compound 8d

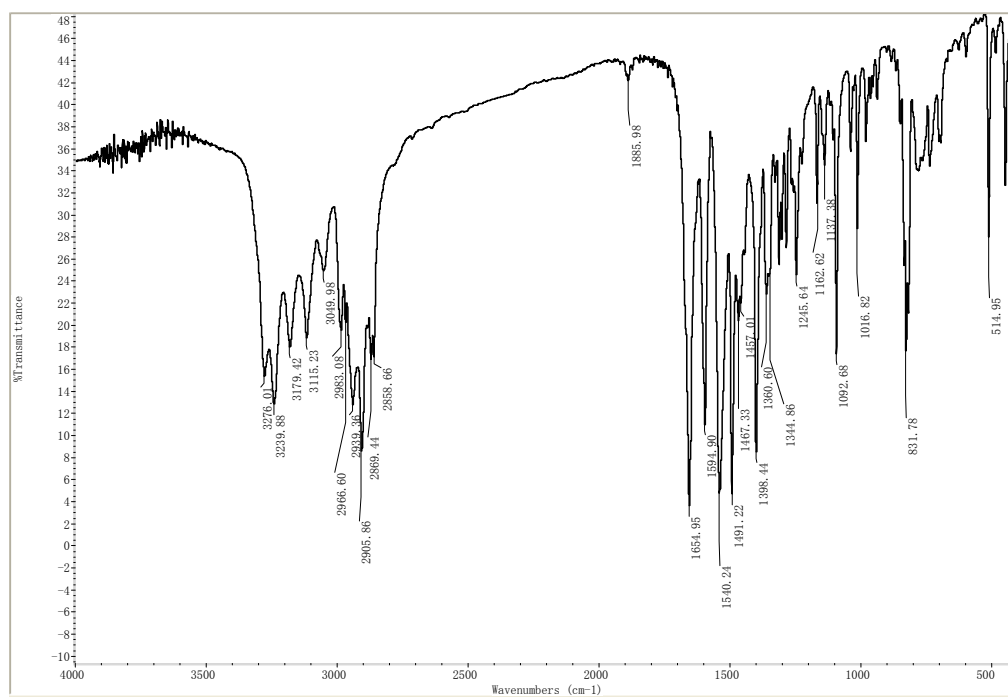


Compound 8e

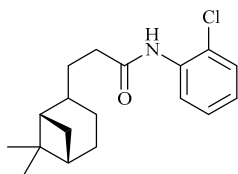


N-(4-chlorophenyl)-3-((1S,5S)-6,6-dimethylbicyclo[3.1.1]heptan-2-yl)propanamide

FTIR of compound 8e

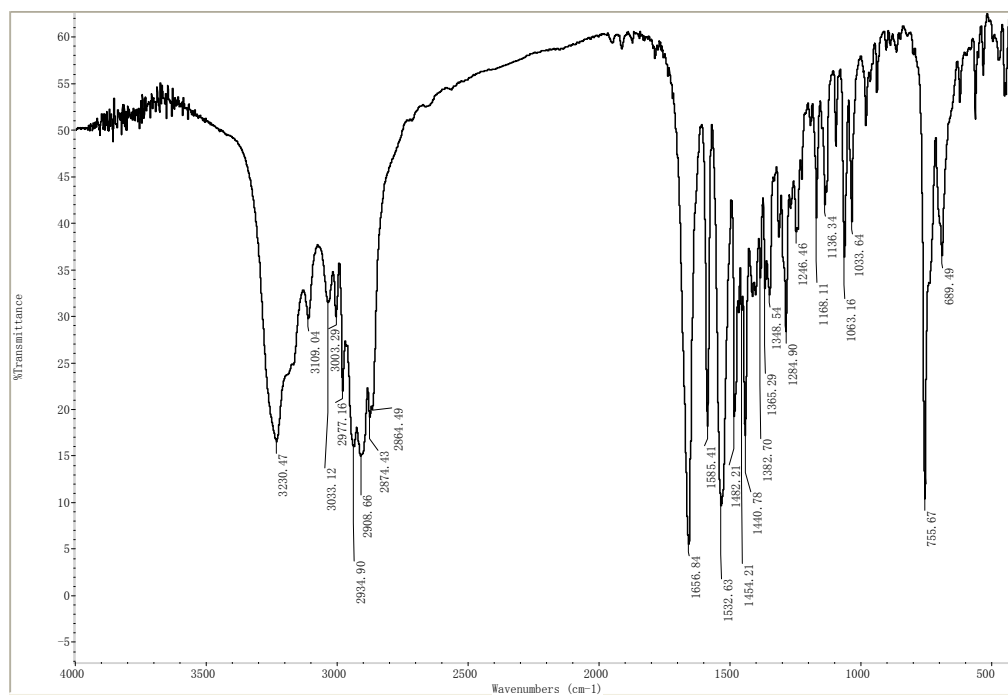


Compound 8f

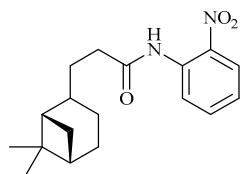


N-(2-chlorophenyl)-3-((1S,5S)-6,6-dimethylbicyclo[3.1.1]heptan-2-yl)propanamide

FTIR of compound 8f

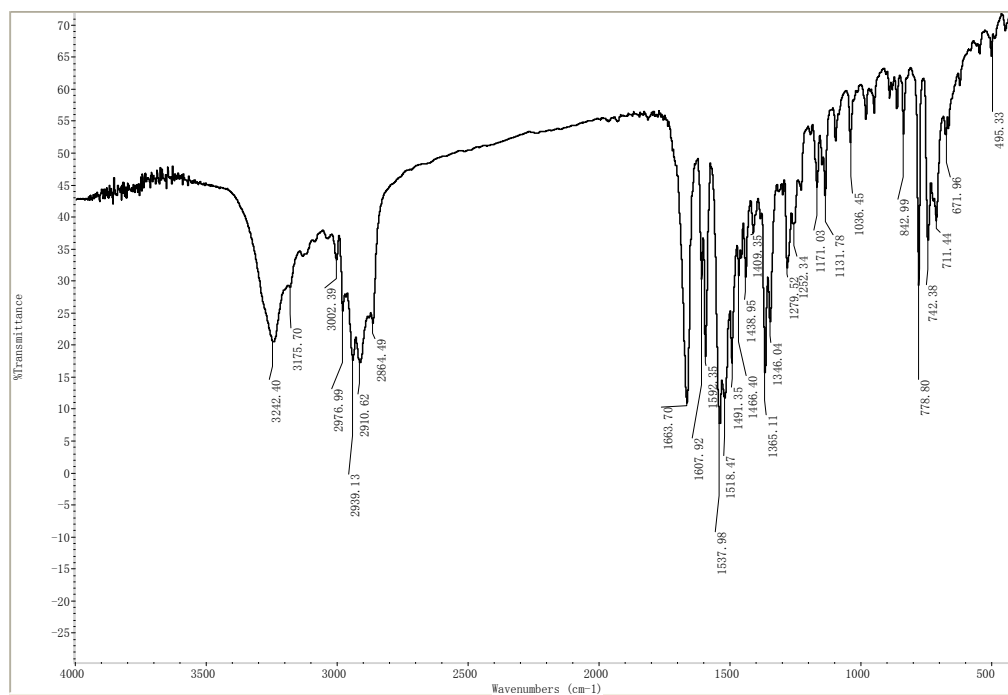


Compound 8g



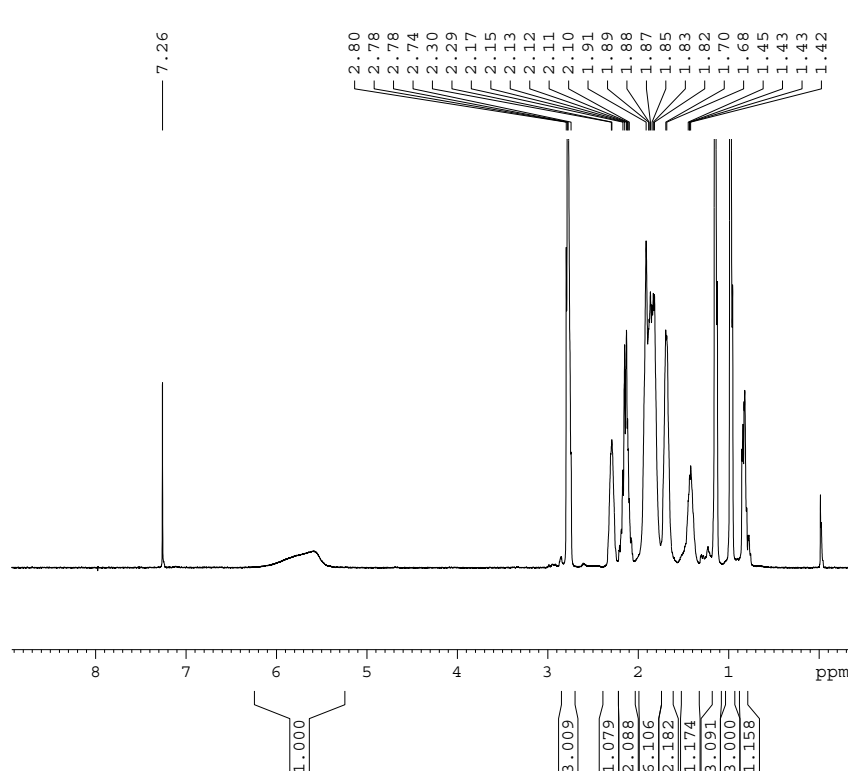
3-((1S,5S)-6,6-dimethylbicyclo[3.1.1]heptan-2-yl)-N-(2-nitrophenyl)propanamide

FTIR of compound 8g



NMR spectrums of compound 8a-8g

¹H NMR of compound 8a:



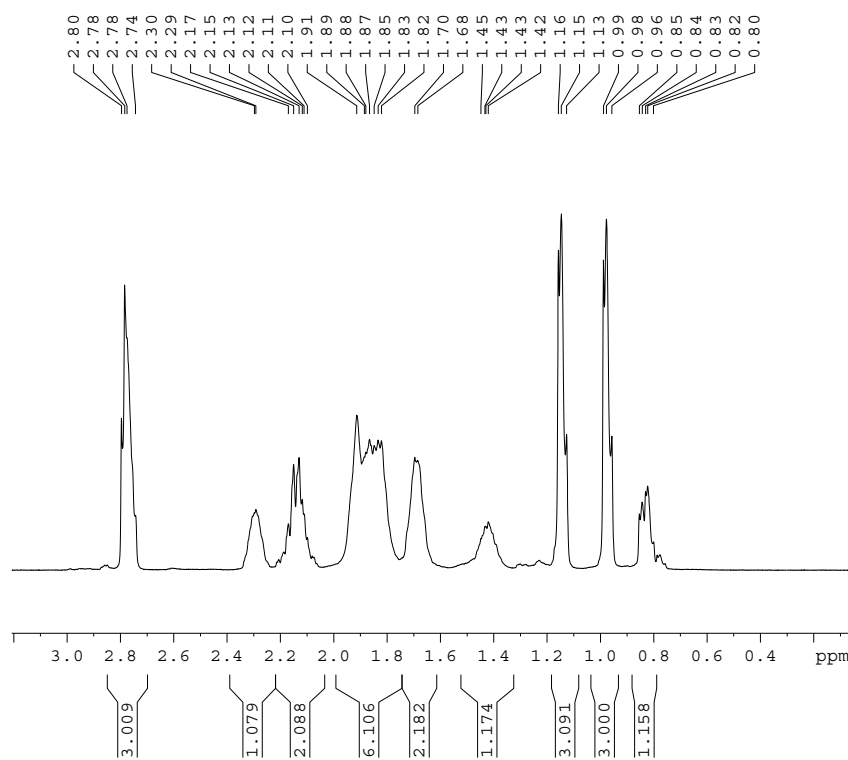
```

Current Data Parameters
NAME      nongda-1
EXPNO    1
PROCNO   1

F2 - Acquisition Parameters
Date_    20140102
Time     21.46
INSTRUM spect
PROBHD   5 mm QNP 1H/1
PULPROG zg30
TD        65536
SOLVENT  CDCl3
NS        4
DS        2
SWH      8278.146 Hz
FIDRES   0.126314 Hz
AQ        3.9584243 sec
RG        114
DW        60.400 usec
DE        6.00 usec
TE        289.3 K
D1        2.00000000 sec
MCREST    0.00000000 sec
MCWRK     0.01500000 sec

===== CHANNEL f1 =====
NUC1      1H
P1        14.80 usec
PL1       -2.00 dB
SFO1      400.1332010 MHz

F2 - Processing parameters
SI        32768
SF        400.1300096 MHz
WDW       EM
SSB       0
LB        0.30 Hz
GB        0
PC        1.00
    
```



```

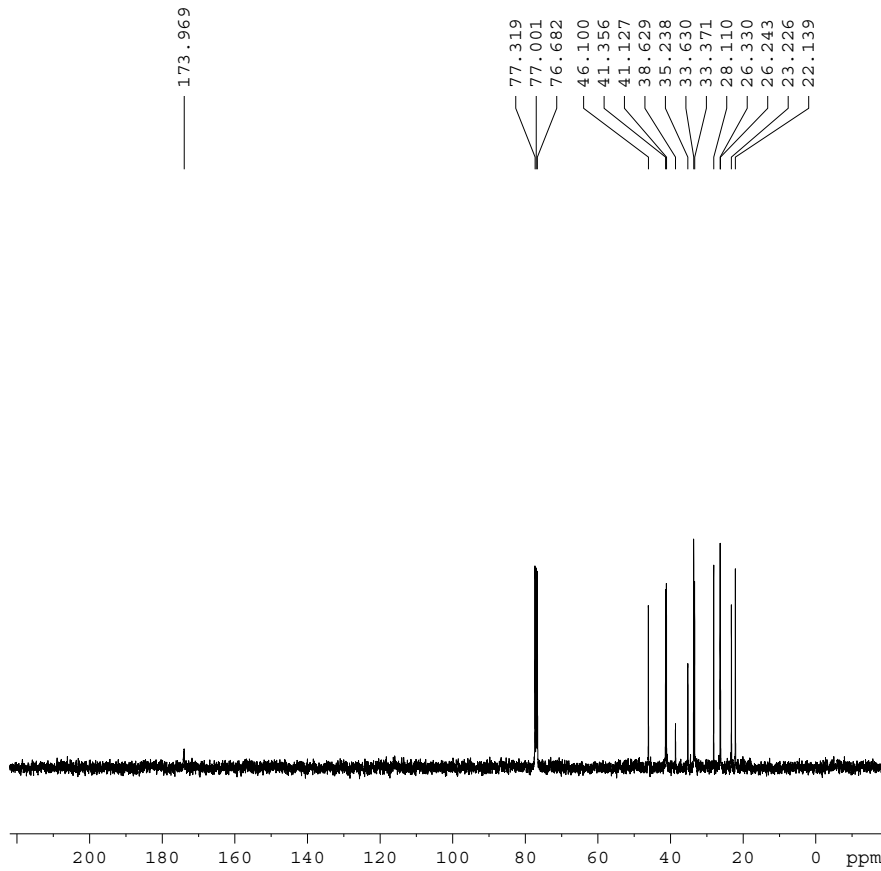
Current Data Parameters
NAME      nongda-1
EXPNO    1
PROCNO   1

F2 - Acquisition Parameters
Date_    20140102
Time     21.46
INSTRUM spect
PROBHD   5 mm QNP 1H/1
PULPROG zg30
TD        65536
SOLVENT  CDCl3
NS        4
DS        2
SWH      8278.146 Hz
FIDRES   0.126314 Hz
AQ        3.9584243 sec
RG        114
DW        60.400 usec
DE        6.00 usec
TE        289.3 K
D1        2.00000000 sec
MCREST    0.00000000 sec
MCWRK     0.01500000 sec

===== CHANNEL f1 =====
NUC1      1H
P1        14.80 usec
PL1       -2.00 dB
SFO1      400.1332010 MHz

F2 - Processing parameters
SI        32768
SF        400.1300096 MHz
WDW       EM
SSB       0
LB        0.30 Hz
GB        0
PC        1.00
    
```


¹³C NMR of compound 8a:



```

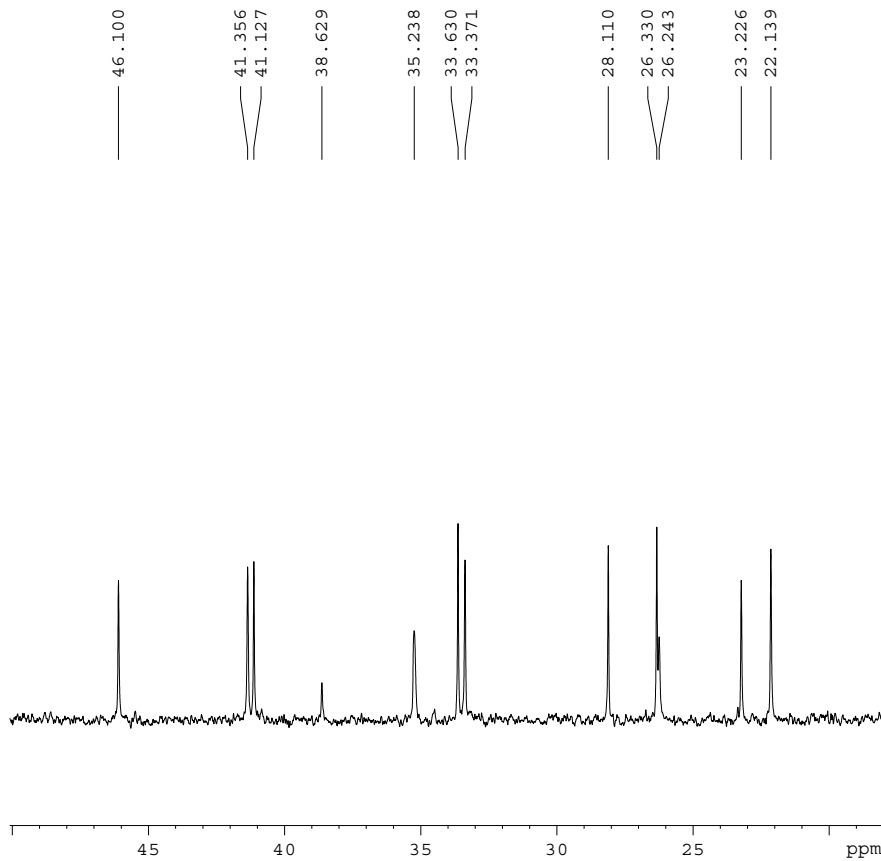
Current Data Parameters
NAME      nongda-1
EXPNO    2
PROCNO   1

F2 - Acquisition Parameters
Date      20140102
Time      21.47
INSTRUM  spect
PROBHD   5 mm QNP 1H/1
PULPROG  zgdc30
TD        32768
SOLVENT  DMSO
NS        120
DS        0
SWH       24154.590 Hz
FIDRES    0.737140 Hz
AQ        0.6783476 sec
RG        362
DW        20.700 usec
DE        6.00 usec
TE        289.9 K
D1        1.00000000 sec
d11       0.03000000 sec
MCREST    0.00000000 sec
MCWRK    0.01500000 sec

===== CHANNEL f1 =====
NUC1      13C
P1        12.00 usec
PL1       -3.00 dB
SFO1     100.6230315 MHz

===== CHANNEL f2 =====
CPDPRG2  waltz16
NUC2      1H
PCPD2    80.00 usec
PL2       -4.00 dB
PL12     12.12 dB
SFO2     400.1313965 MHz

F2 - Processing parameters
SI        131072
SF        100.6127747 MHz
WDW       EM
SSB       0
LB        3.00 Hz
GB        0
PC        0.50
    
```



```

Current Data Parameters
NAME      nongda-1
EXPNO    2
PROCNO   1

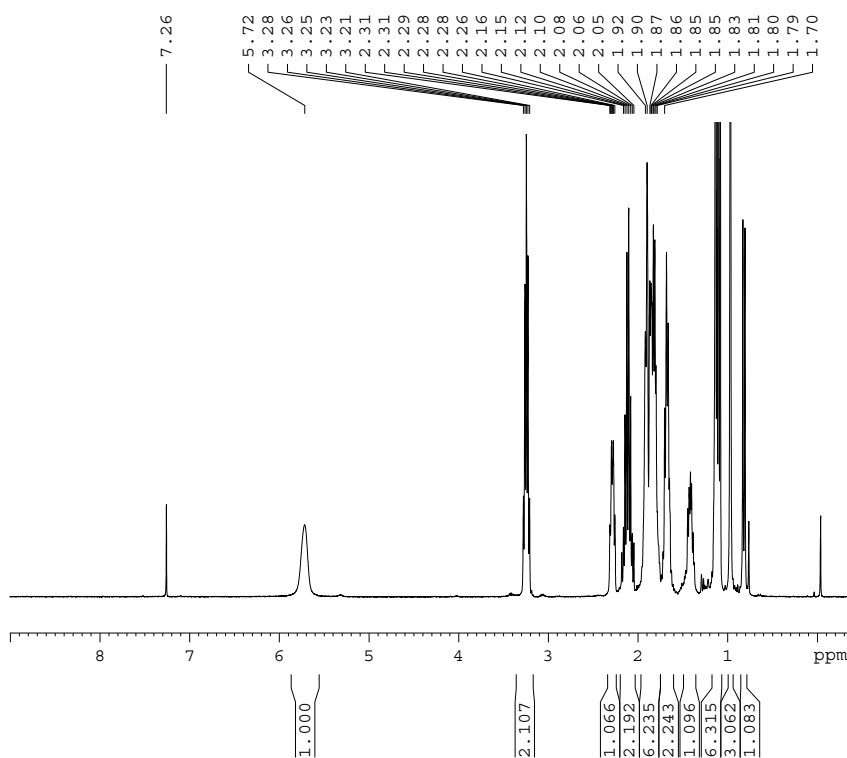
F2 - Acquisition Parameters
Date      20140102
Time      21.47
INSTRUM  spect
PROBHD   5 mm QNP 1H/1
PULPROG  zgdc30
TD        32768
SOLVENT  DMSO
NS        120
DS        0
SWH       24154.590 Hz
FIDRES    0.737140 Hz
AQ        0.6783476 sec
RG        362
DW        20.700 usec
DE        6.00 usec
TE        289.9 K
D1        1.00000000 sec
d11       0.03000000 sec
MCREST    0.00000000 sec
MCWRK    0.01500000 sec

===== CHANNEL f1 =====
NUC1      13C
P1        12.00 usec
PL1       -3.00 dB
SFO1     100.6230315 MHz

===== CHANNEL f2 =====
CPDPRG2  waltz16
NUC2      1H
PCPD2    80.00 usec
PL2       -4.00 dB
PL12     12.12 dB
SFO2     400.1313965 MHz

F2 - Processing parameters
SI        131072
SF        100.6127747 MHz
WDW       EM
SSB       0
LB        3.00 Hz
GB        0
PC        0.50
    
```

¹H NMR of compound 8b:



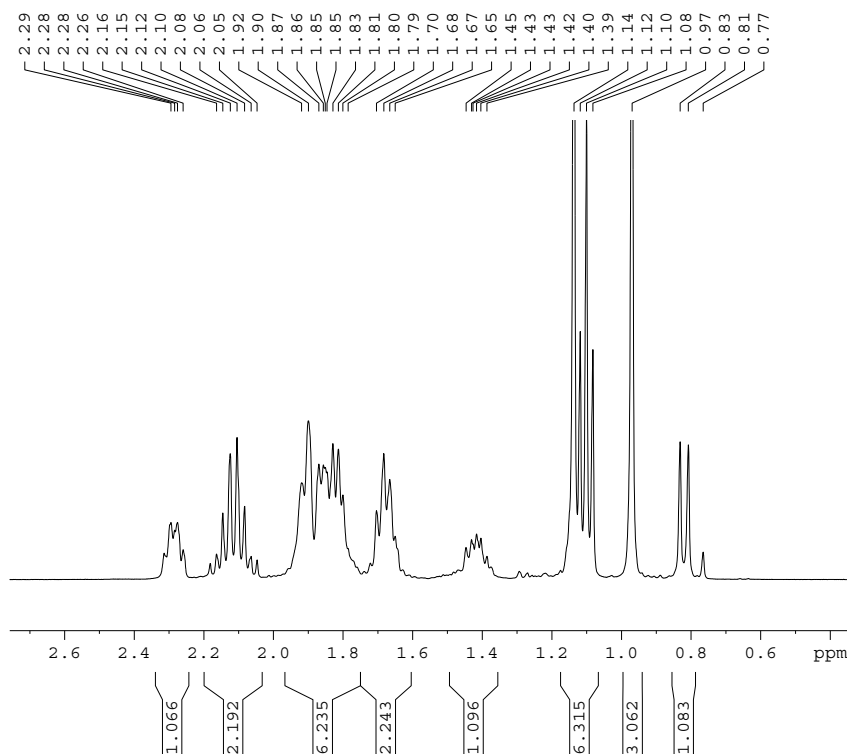
```

Current Data Parameters
NAME          nongda-2
EXPNO         1
PROCNO        1

F2 - Acquisition Parameters
Date_         20140105
Time_         14.48
INSTRUM       spect
PROBHD        5 mm QNP 1H/1
PULPROG       zg30
TD            65536
SOLVENT       CDCl3
NS            4
DS            2
SWH           8278.146 Hz
FIDRES        0.126314 Hz
AQ            3.9584243 sec
RG            57
DW            60.400 usec
DE            6.00 usec
TE            288.2 K
D1            2.00000000 sec
MCREST        0.00000000 sec
MCWRK         0.01500000 sec

===== CHANNEL f1 =====
NUC1          1H
P1            14.80 usec
PL1           -2.00 dB
SF01          400.1332010 MHz

F2 - Processing parameters
SI            32768
SF            400.1300096 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
    
```



```

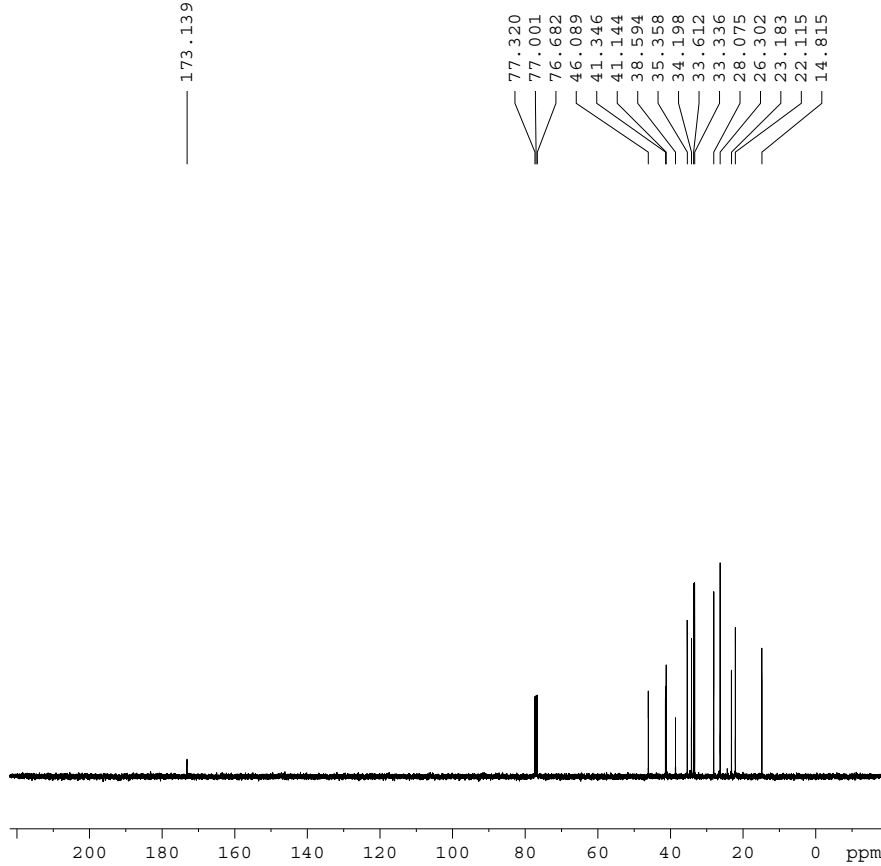
Current Data Parameters
NAME          nongda-2
EXPNO         1
PROCNO        1

F2 - Acquisition Parameters
Date_         20140105
Time_         14.48
INSTRUM       spect
PROBHD        5 mm QNP 1H/1
PULPROG       zg30
TD            65536
SOLVENT       CDCl3
NS            4
DS            2
SWH           8278.146 Hz
FIDRES        0.126314 Hz
AQ            3.9584243 sec
RG            57
DW            60.400 usec
DE            6.00 usec
TE            288.2 K
D1            2.00000000 sec
MCREST        0.00000000 sec
MCWRK         0.01500000 sec

===== CHANNEL f1 =====
NUC1          1H
P1            14.80 usec
PL1           -2.00 dB
SF01          400.1332010 MHz

F2 - Processing parameters
SI            32768
SF            400.1300096 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
    
```

¹³C NMR of compound 8b:



```

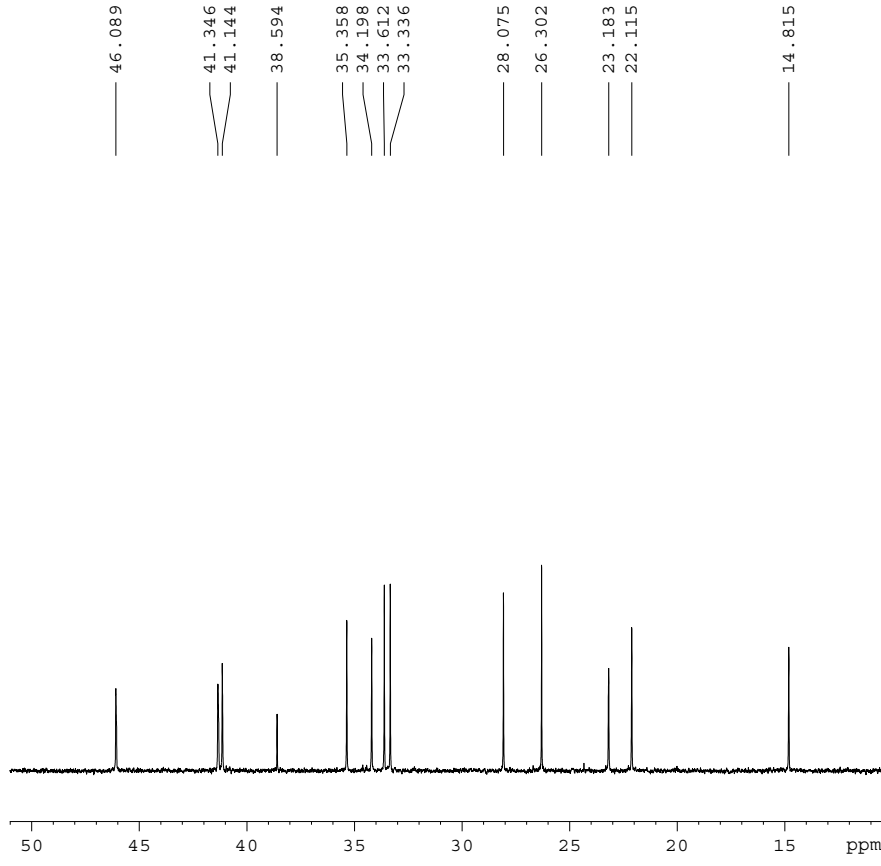
Current Data Parameters
NAME      nongda-2
EXPNO    2
PROCNO   1

F2 - Acquisition Parameters
Date      20140105
Time      14.54
INSTRUM   spect
PROBHD    5 mm QNP 1H/1
PULPROG   zgdc30
TD         32768
SOLVENT   Acetone
NS         147
DS         0
SWH        24154.590 Hz
FIDRES     0.737140 Hz
AQ         0.6783476 sec
RG         362
DW         20.700 usec
DE         6.00 usec
TE         289.7 K
D1         1.00000000 sec
d11        0.03000000 sec
MCREST     0.00000000 sec
MCWRK     0.01500000 sec

===== CHANNEL f1 =====
NUC1       13C
P1         12.00 usec
PL1        -3.00 dB
SFO1       100.6230315 MHz

===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
PCPD2      80.00 usec
PL2        -4.00 dB
PL12       12.12 dB
SFO2       400.1313965 MHz

F2 - Processing parameters
SI         131072
SF         100.6127777 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         0.50
    
```



```

Current Data Parameters
NAME      nongda-2
EXPNO    2
PROCNO   1

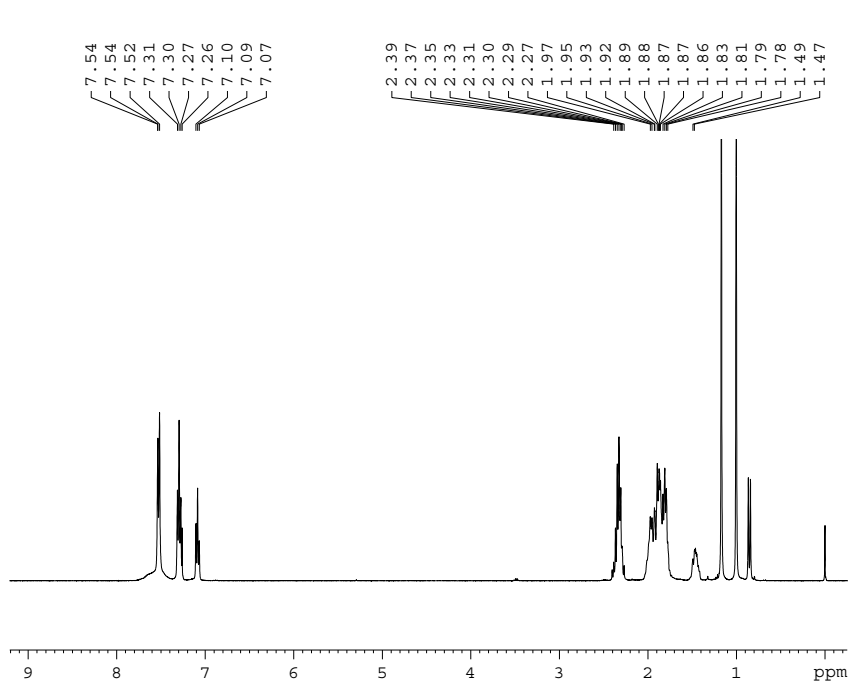
F2 - Acquisition Parameters
Date      20140105
Time      14.54
INSTRUM   spect
PROBHD    5 mm QNP 1H/1
PULPROG   zgdc30
TD         32768
SOLVENT   Acetone
NS         147
DS         0
SWH        24154.590 Hz
FIDRES     0.737140 Hz
AQ         0.6783476 sec
RG         362
DW         20.700 usec
DE         6.00 usec
TE         289.7 K
D1         1.00000000 sec
d11        0.03000000 sec
MCREST     0.00000000 sec
MCWRK     0.01500000 sec

===== CHANNEL f1 =====
NUC1       13C
P1         12.00 usec
PL1        -3.00 dB
SFO1       100.6230315 MHz

===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
PCPD2      80.00 usec
PL2        -4.00 dB
PL12       12.12 dB
SFO2       400.1313965 MHz

F2 - Processing parameters
SI         131072
SF         100.6127777 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         0.50
    
```

¹H NMR of compound 8c:



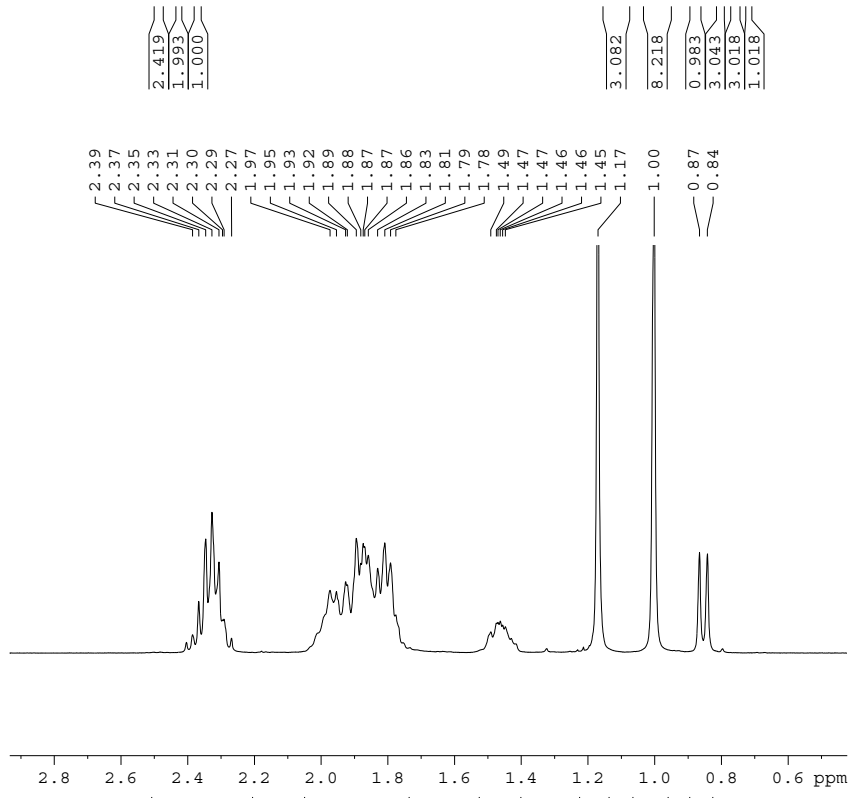
```

Current Data Parameters
NAME          nongda-3
EXPNO         1
PROCNO        1

F2 - Acquisition Parameters
Date_         20140103
Time_         14.04
INSTRUM       spect
PROBHD        5 mm QNP 1H/1
PULPROG       zg30
TD            65536
SOLVENT       Pyr
NS            4
DS            2
SWH           8278.146 Hz
FIDRES        0.126314 Hz
AQ            3.9584243 sec
RG            57
DW            60.400 usec
DE            6.00 usec
TE            288.1 K
D1            2.00000000 sec
MCREST        0.00000000 sec
MCWRK         0.01500000 sec

===== CHANNEL f1 =====
NUC1          1H
P1            14.80 usec
PL1           -2.00 dB
SFO1         400.1332010 MHz

F2 - Processing parameters
SI            32768
SF            400.1300093 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
    
```



```

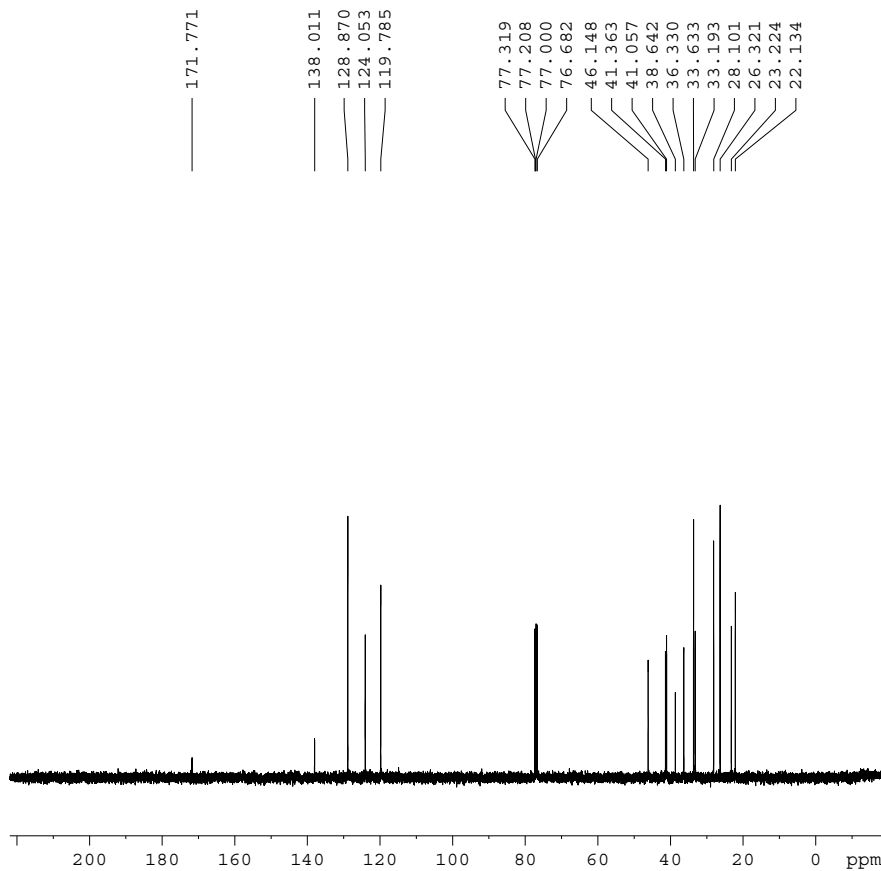
Current Data Parameters
NAME          nongda-3
EXPNO         1
PROCNO        1

F2 - Acquisition Parameters
Date_         20140103
Time_         14.04
INSTRUM       spect
PROBHD        5 mm QNP 1H/1
PULPROG       zg30
TD            65536
SOLVENT       Pyr
NS            4
DS            2
SWH           8278.146 Hz
FIDRES        0.126314 Hz
AQ            3.9584243 sec
RG            57
DW            60.400 usec
DE            6.00 usec
TE            288.1 K
D1            2.00000000 sec
MCREST        0.00000000 sec
MCWRK         0.01500000 sec

===== CHANNEL f1 =====
NUC1          1H
P1            14.80 usec
PL1           -2.00 dB
SFO1         400.1332010 MHz

F2 - Processing parameters
SI            32768
SF            400.1300093 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
    
```

¹³C NMR of compound 8c:



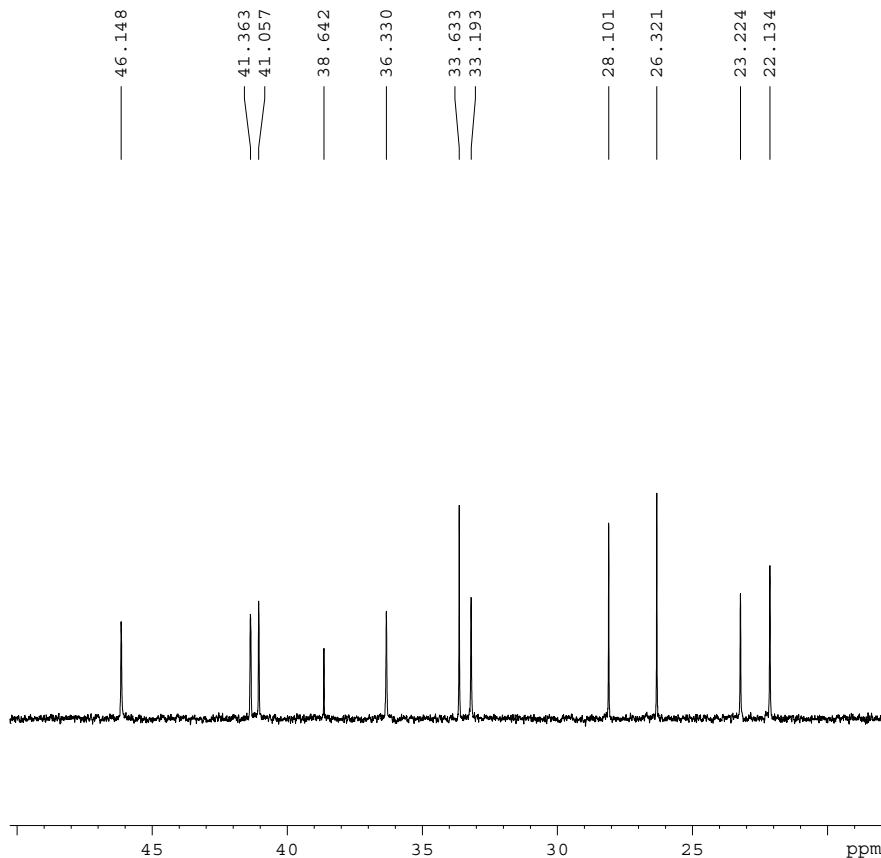
Current Data Parameters
 NAME nongda-3-1
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date 20140106
 Time 15.53
 INSTRUM spect
 PROBHD 5 mm QNP 1H/1
 PULPROG zgdc30
 TD 32768
 SOLVENT Acetone
 NS 102
 DS 0
 SWH 24154.590 Hz
 FIDRES 0.737140 Hz
 AQ 0.6783476 sec
 RG 362
 DW 20.700 usec
 DE 6.00 usec
 TE 290.5 K
 D1 1.00000000 sec
 d11 0.03000000 sec
 MCREST 0.00000000 sec
 MCWRK 0.01500000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 12.00 usec
 PL1 -3.00 dB
 SFO1 100.6230315 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 ECPD2 80.00 usec
 PL2 -4.00 dB
 PL12 12.12 dB
 SFO2 400.1313965 MHz

F2 - Processing parameters
 SI 131072
 SF 100.6127769 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 0.50



Current Data Parameters
 NAME nongda-3-1
 EXPNO 2
 PROCNO 1

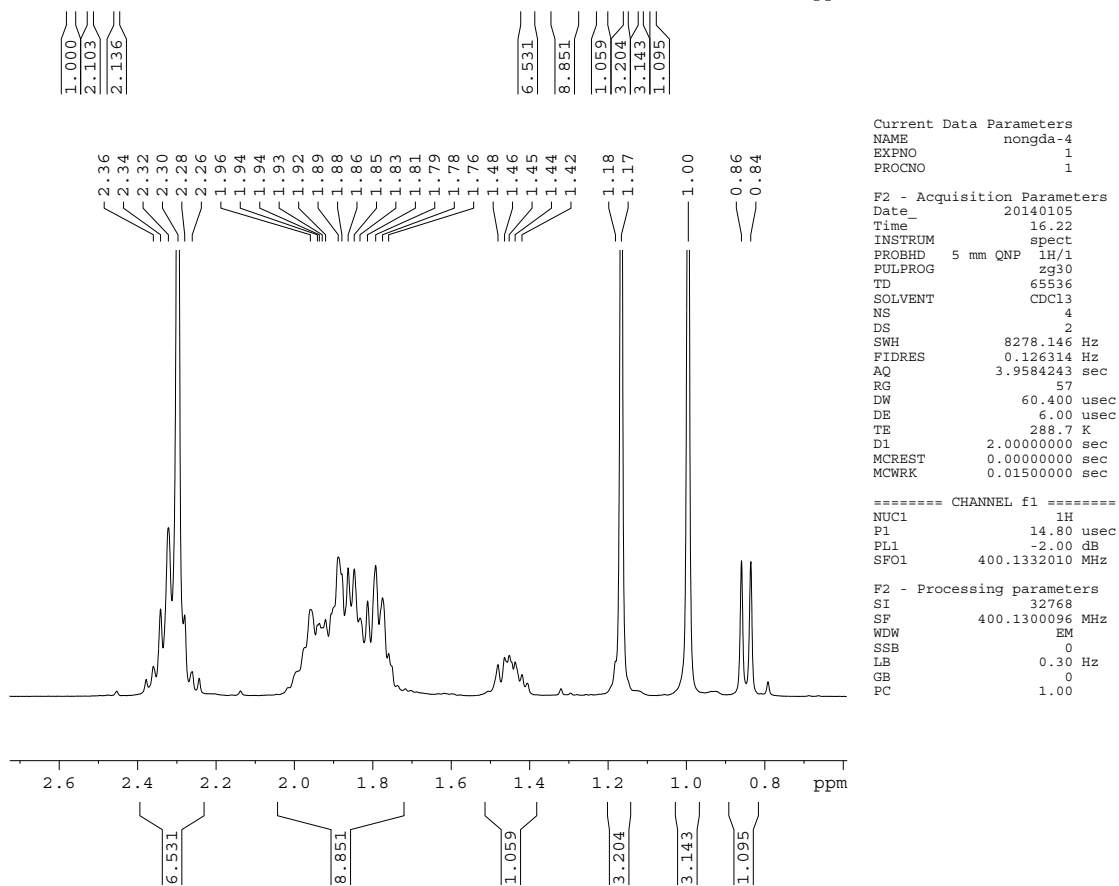
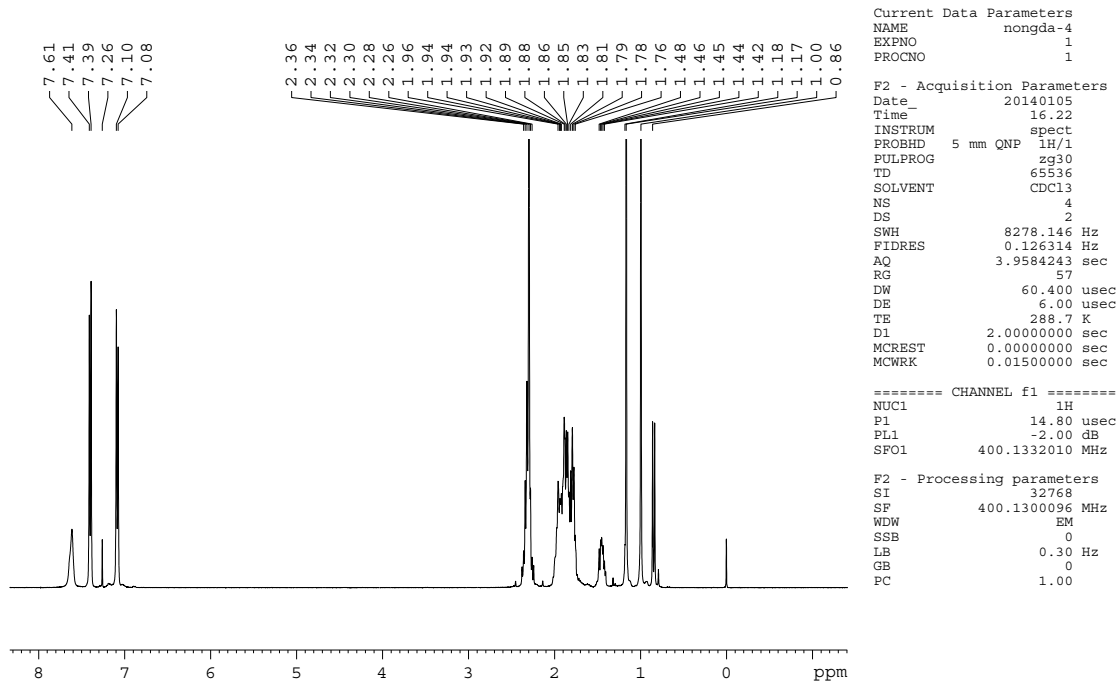
F2 - Acquisition Parameters
 Date 20140106
 Time 15.53
 INSTRUM spect
 PROBHD 5 mm QNP 1H/1
 PULPROG zgdc30
 TD 32768
 SOLVENT Acetone
 NS 102
 DS 0
 SWH 24154.590 Hz
 FIDRES 0.737140 Hz
 AQ 0.6783476 sec
 RG 362
 DW 20.700 usec
 DE 6.00 usec
 TE 290.5 K
 D1 1.00000000 sec
 d11 0.03000000 sec
 MCREST 0.00000000 sec
 MCWRK 0.01500000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 12.00 usec
 PL1 -3.00 dB
 SFO1 100.6230315 MHz

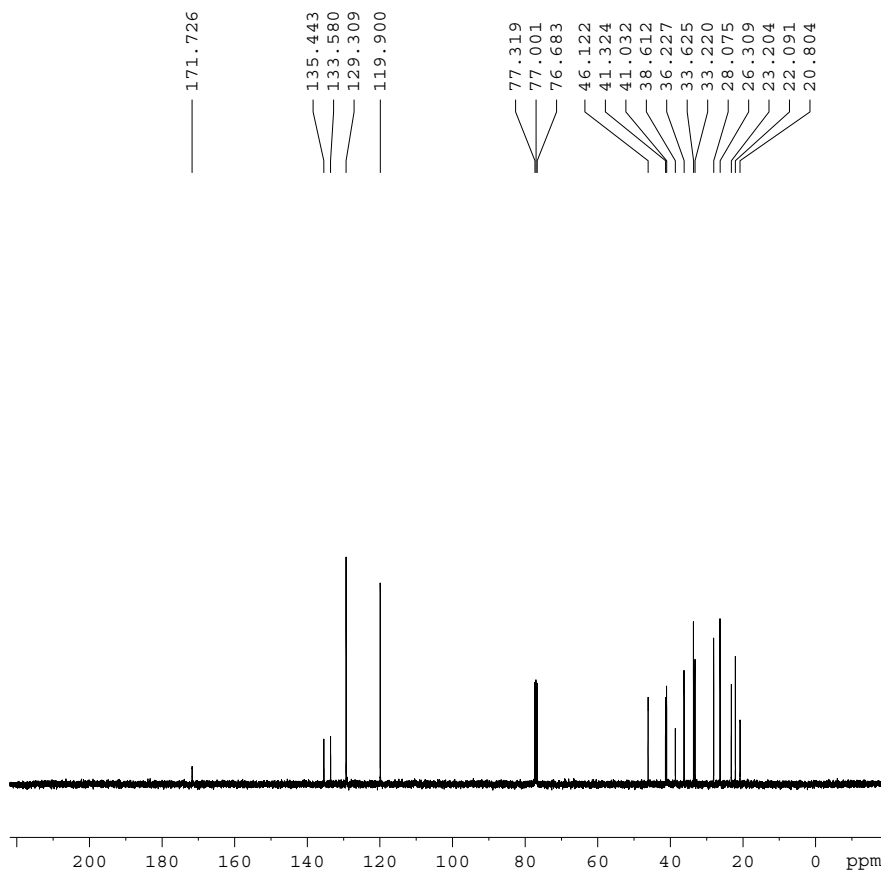
===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 ECPD2 80.00 usec
 PL2 -4.00 dB
 PL12 12.12 dB
 SFO2 400.1313965 MHz

F2 - Processing parameters
 SI 131072
 SF 100.6127769 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 0.50

¹H NMR of compound 8d:



¹³C NMR of compound 8d:



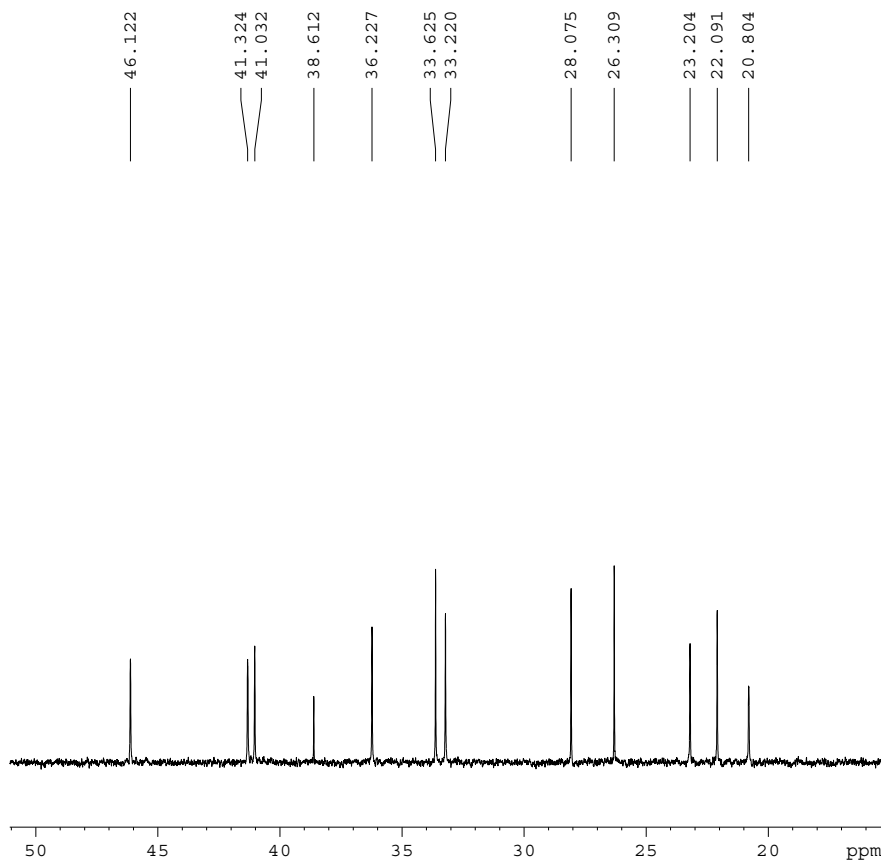
```
Current Data Parameters
NAME      nongda-4
EXPNO    2
PROCNO   1

F2 - Acquisition Parameters
Date_    20140105
Time     16.24
INSTRUM spect
PROBHD   5 mm QNP 1H/1
PULPROG zgdc30
TD       32768
SOLVENT  Acetone
NS       73
DS       0
SWH      24154.590 Hz
FIDRES   0.737140 Hz
AQ       0.6783476 sec
RG       362
DW       20.700 usec
DE       6.00 usec
TE       289.6 K
D1       1.00000000 sec
d11      0.03000000 sec
MCREST   0.00000000 sec
MCWRK    0.01500000 sec
```

```
===== CHANNEL f1 =====
NUC1    13C
P1      12.00 usec
PL1     -3.00 dB
SFO1    100.6230315 MHz
```

```
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2     1H
PCPD2    80.00 usec
PL2      -4.00 dB
PL12     12.12 dB
SFO2     400.1313965 MHz
```

```
F2 - Processing parameters
SI       131072
SF       100.6127793 MHz
WDW      EM
SSB      0
LB       1.00 Hz
GB       0
PC       0.50
```



```
Current Data Parameters
NAME      nongda-4
EXPNO    2
PROCNO   1

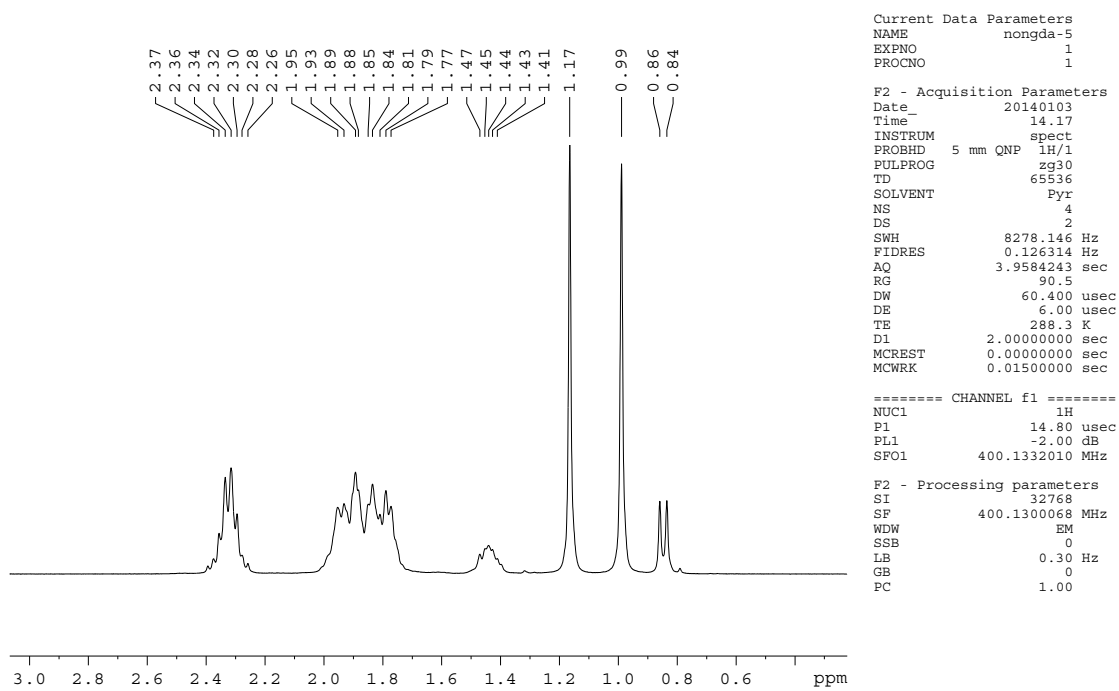
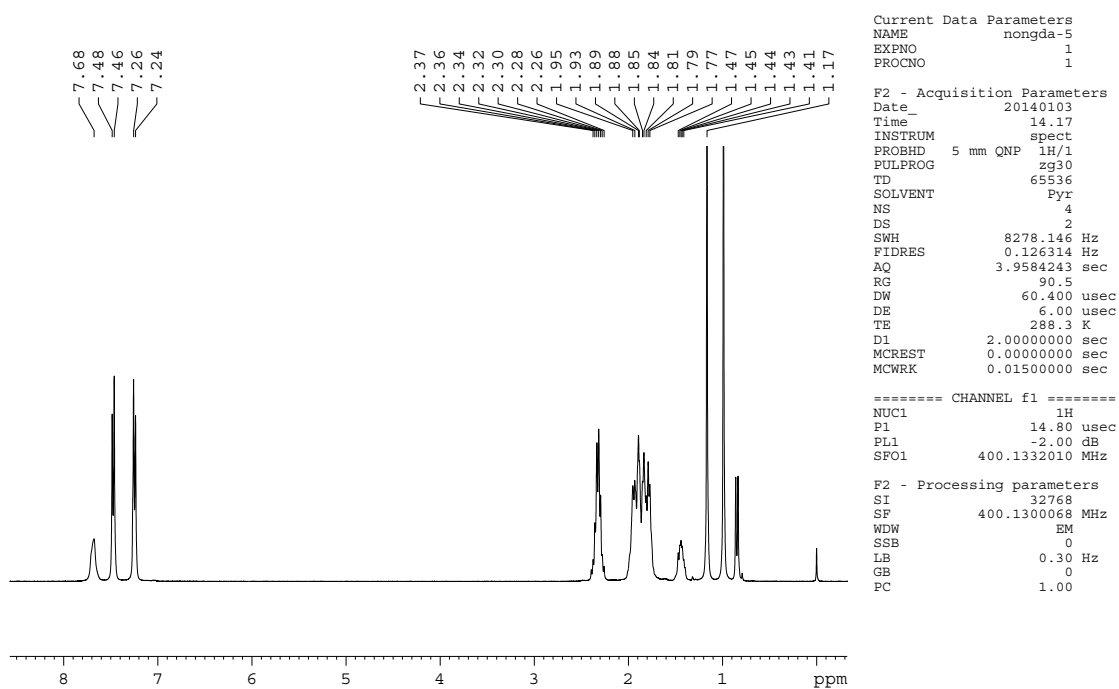
F2 - Acquisition Parameters
Date_    20140105
Time     16.24
INSTRUM spect
PROBHD   5 mm QNP 1H/1
PULPROG zgdc30
TD       32768
SOLVENT  Acetone
NS       73
DS       0
SWH      24154.590 Hz
FIDRES   0.737140 Hz
AQ       0.6783476 sec
RG       362
DW       20.700 usec
DE       6.00 usec
TE       289.6 K
D1       1.00000000 sec
d11      0.03000000 sec
MCREST   0.00000000 sec
MCWRK    0.01500000 sec
```

```
===== CHANNEL f1 =====
NUC1    13C
P1      12.00 usec
PL1     -3.00 dB
SFO1    100.6230315 MHz
```

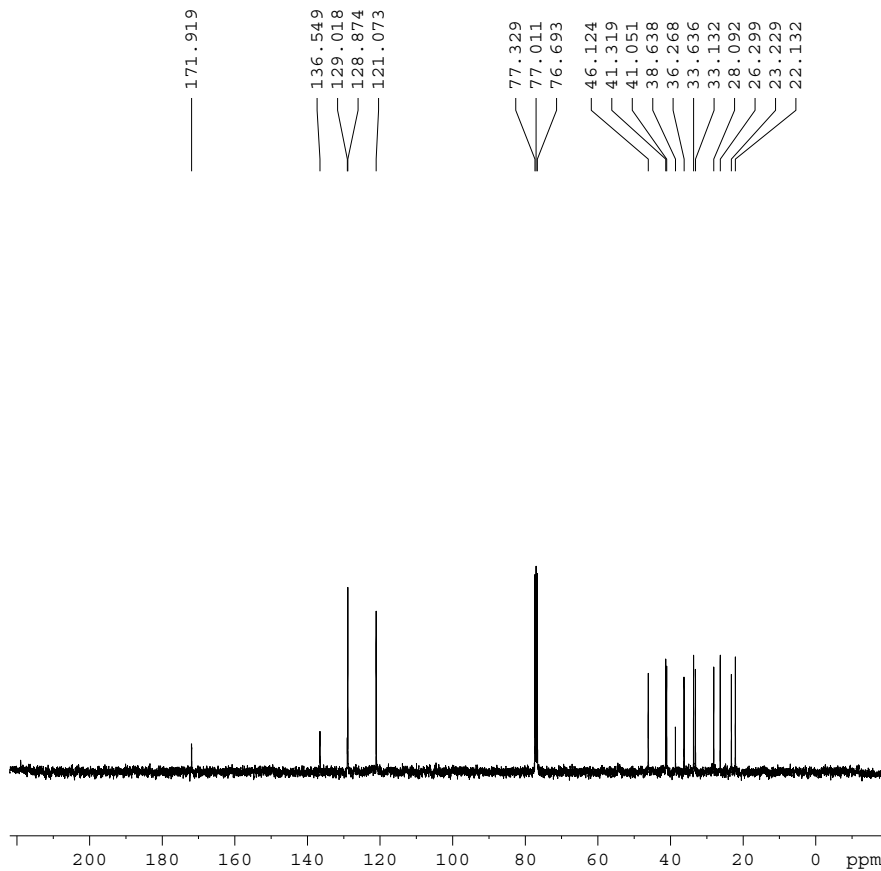
```
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2     1H
PCPD2    80.00 usec
PL2      -4.00 dB
PL12     12.12 dB
SFO2     400.1313965 MHz
```

```
F2 - Processing parameters
SI       131072
SF       100.6127793 MHz
WDW      EM
SSB      0
LB       1.00 Hz
GB       0
PC       0.50
```

¹H NMR of compound 8e:



¹³C NMR of compound 8e:



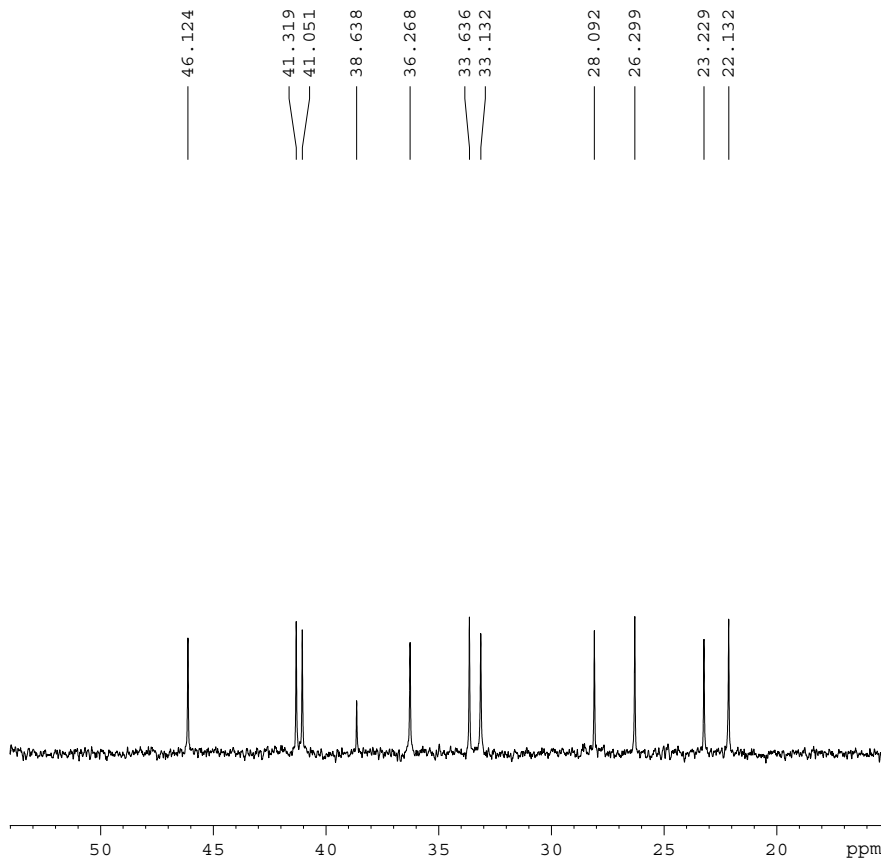
```
Current Data Parameters
NAME      nongda-5
EXPNO    2
PROCNO   1

F2 - Acquisition Parameters
Date      20140103
Time      14.21
INSTRUM  spect
PROBHD   5 mm QNP 1H/1
PULPROG  zgdc30
TD        32768
SOLVENT  Acetone
NS        28
DS        0
SWH       24154.590 Hz
FIDRES    0.737140 Hz
AQ        0.6783476 sec
RG        362
DW        20.700 usec
DE        6.00 usec
TE        289.0 K
D1        1.00000000 sec
d11       0.03000000 sec
MCREST    0.00000000 sec
MCWRK     0.01500000 sec
```

```
===== CHANNEL f1 =====
NUC1      13C
P1        12.00 usec
PL1       -3.00 dB
SFO1      100.6230315 MHz
```

```
===== CHANNEL f2 =====
CPDPRG2   waltz16
NUC2       1H
PCPD2     80.00 usec
PL2        -4.00 dB
PL12       12.12 dB
SFO2       400.1313965 MHz
```

```
F2 - Processing parameters
SI         131072
SF         100.6127756 MHz
WDW        EM
SSB        0
LB         3.00 Hz
GB         0
PC         0.50
```



```
Current Data Parameters
NAME      nongda-5
EXPNO    2
PROCNO   1

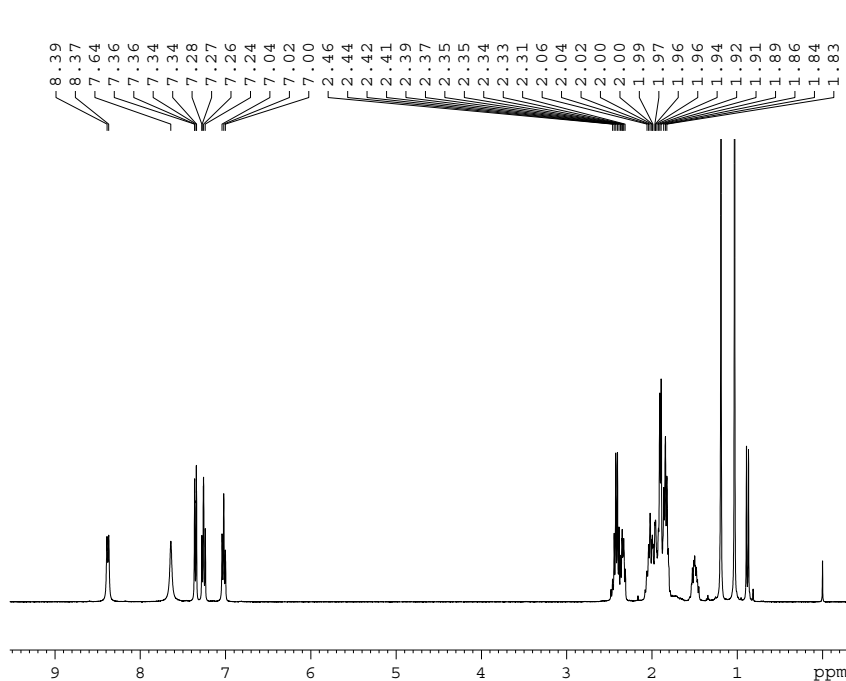
F2 - Acquisition Parameters
Date      20140103
Time      14.21
INSTRUM  spect
PROBHD   5 mm QNP 1H/1
PULPROG  zgdc30
TD        32768
SOLVENT  Acetone
NS        28
DS        0
SWH       24154.590 Hz
FIDRES    0.737140 Hz
AQ        0.6783476 sec
RG        362
DW        20.700 usec
DE        6.00 usec
TE        289.0 K
D1        1.00000000 sec
d11       0.03000000 sec
MCREST    0.00000000 sec
MCWRK     0.01500000 sec
```

```
===== CHANNEL f1 =====
NUC1      13C
P1        12.00 usec
PL1       -3.00 dB
SFO1      100.6230315 MHz
```

```
===== CHANNEL f2 =====
CPDPRG2   waltz16
NUC2       1H
PCPD2     80.00 usec
PL2        -4.00 dB
PL12       12.12 dB
SFO2       400.1313965 MHz
```

```
F2 - Processing parameters
SI         131072
SF         100.6127756 MHz
WDW        EM
SSB        0
LB         3.00 Hz
GB         0
PC         0.50
```

¹H NMR of compound 8f:



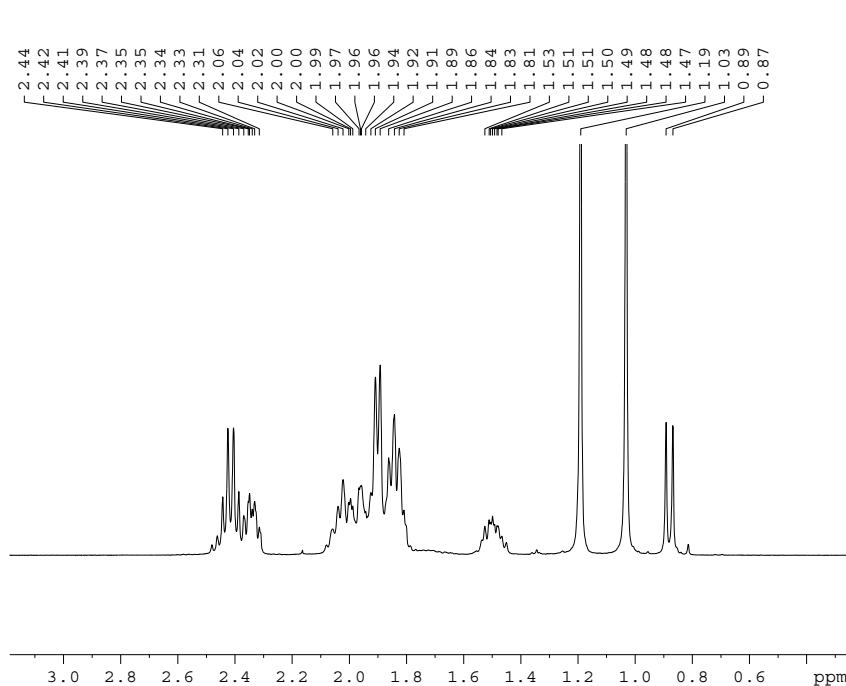
```

Current Data Parameters
NAME          nongda-6
EXPNO        1
PROCNO       1

F2 - Acquisition Parameters
Date_        20140103
Time         21.18
INSTRUM     spect
PROBHD      5 mm QNP 1H/1
PULPROG     zg30
TD          65536
SOLVENT     CDCl3
NS           4
DS           2
SWH         8278.146 Hz
FIDRES     0.126314 Hz
AQ         3.9584243 sec
RG          57
DW         60.400 usec
DE          6.00 usec
TE         296.1 K
D1         2.00000000 sec
MCREST     0.00000000 sec
MCWRK      0.01500000 sec

===== CHANNEL f1 =====
NUC1         1H
P1          14.80 usec
PL1         -2.00 dB
SF01        400.1332010 MHz

F2 - Processing parameters
SI          32768
SF         400.1300085 MHz
WDW         EM
SSB         0
LB         0.30 Hz
GB         0
PC         1.00
    
```



```

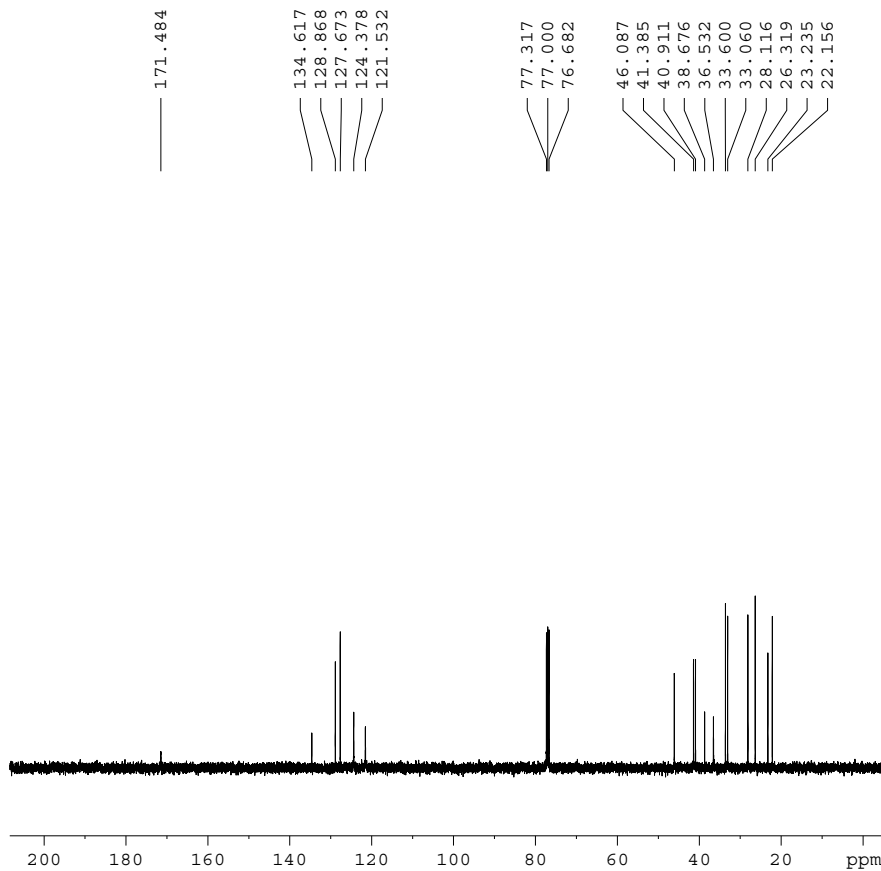
Current Data Parameters
NAME          nongda-6
EXPNO        1
PROCNO       1

F2 - Acquisition Parameters
Date_        20140103
Time         21.18
INSTRUM     spect
PROBHD      5 mm QNP 1H/1
PULPROG     zg30
TD          65536
SOLVENT     CDCl3
NS           4
DS           2
SWH         8278.146 Hz
FIDRES     0.126314 Hz
AQ         3.9584243 sec
RG          57
DW         60.400 usec
DE          6.00 usec
TE         296.1 K
D1         2.00000000 sec
MCREST     0.00000000 sec
MCWRK      0.01500000 sec

===== CHANNEL f1 =====
NUC1         1H
P1          14.80 usec
PL1         -2.00 dB
SF01        400.1332010 MHz

F2 - Processing parameters
SI          32768
SF         400.1300085 MHz
WDW         EM
SSB         0
LB         0.30 Hz
GB         0
PC         1.00
    
```

¹³C NMR of compound 8f:



```

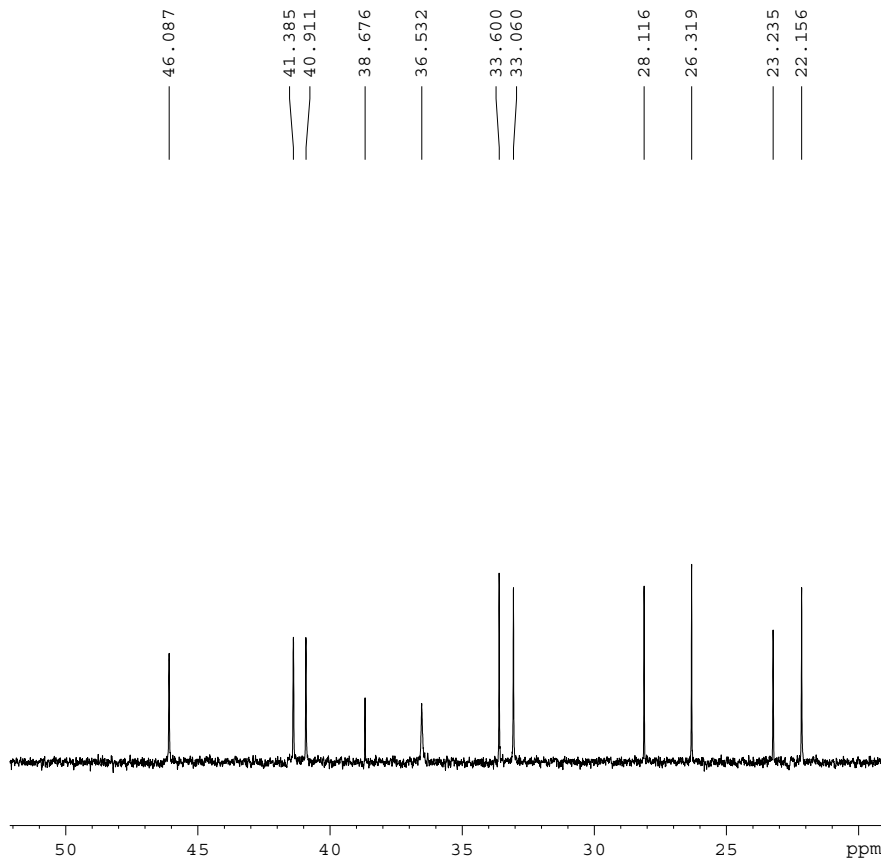
Current Data Parameters
NAME      nongda-6
EXPNO    2
PROCNO   1

F2 - Acquisition Parameters
Date      20140103
Time     21.19
INSTRUM  spect
PROBHD   5 mm QNP 1H/1
PULPROG  zgdc30
TD        32768
SOLVENT  Acetone
NS        52
DS        0
SWH       24154.590 Hz
FIDRES    0.737140 Hz
AQ        0.6783476 sec
RG        362
DW        20.700 usec
DE        6.00 usec
TE        296.4 K
D1        1.00000000 sec
d11       0.03000000 sec
MCREST    0.00000000 sec
MCWRK     0.01500000 sec

===== CHANNEL f1 =====
NUC1      13C
P1        12.00 usec
PL1       -3.00 dB
SFO1     100.6230315 MHz

===== CHANNEL f2 =====
CPDPRG2  waltz16
NUC2      1H
PCPD2    80.00 usec
PL2       -4.00 dB
PL12     12.12 dB
SFO2     400.1313965 MHz

F2 - Processing parameters
SI        131072
SF        100.6127756 MHz
WDW       EM
SSB       0
LB        1.00 Hz
GB        0
PC        0.50
    
```



```

Current Data Parameters
NAME      nongda-6
EXPNO    2
PROCNO   1

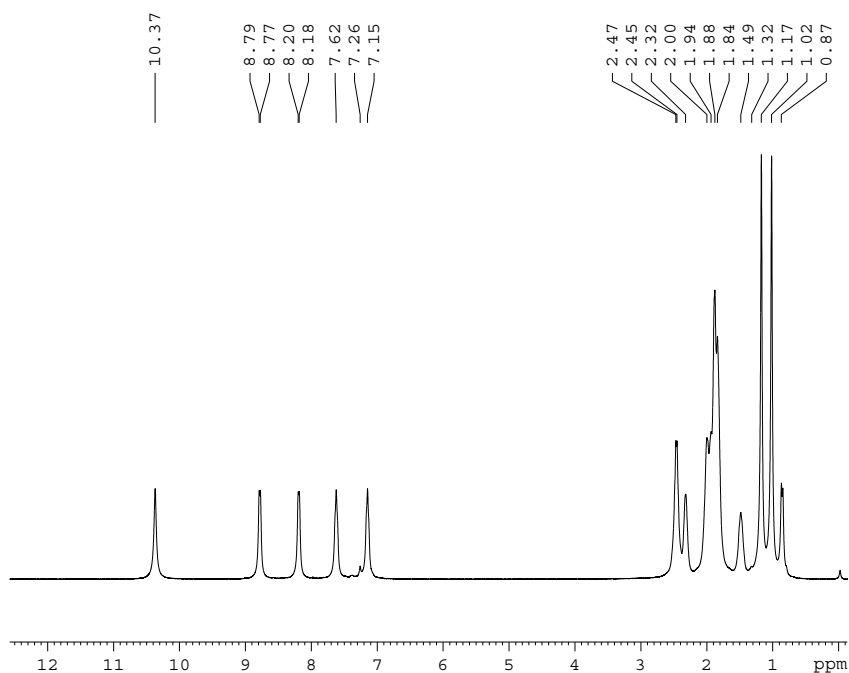
F2 - Acquisition Parameters
Date      20140103
Time     21.19
INSTRUM  spect
PROBHD   5 mm QNP 1H/1
PULPROG  zgdc30
TD        32768
SOLVENT  Acetone
NS        52
DS        0
SWH       24154.590 Hz
FIDRES    0.737140 Hz
AQ        0.6783476 sec
RG        362
DW        20.700 usec
DE        6.00 usec
TE        296.4 K
D1        1.00000000 sec
d11       0.03000000 sec
MCREST    0.00000000 sec
MCWRK     0.01500000 sec

===== CHANNEL f1 =====
NUC1      13C
P1        12.00 usec
PL1       -3.00 dB
SFO1     100.6230315 MHz

===== CHANNEL f2 =====
CPDPRG2  waltz16
NUC2      1H
PCPD2    80.00 usec
PL2       -4.00 dB
PL12     12.12 dB
SFO2     400.1313965 MHz

F2 - Processing parameters
SI        131072
SF        100.6127756 MHz
WDW       EM
SSB       0
LB        1.00 Hz
GB        0
PC        0.50
    
```

¹H NMR of compound 8g:



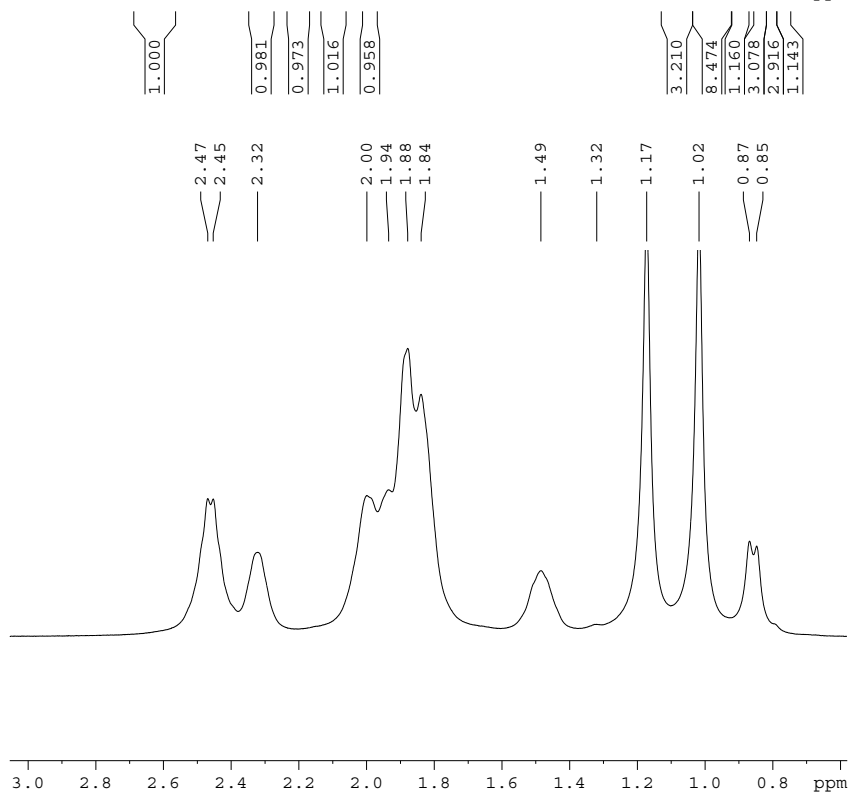
```

Current Data Parameters
NAME          nongda-7
EXPNO         1
PROCNO        1

F2 - Acquisition Parameters
Date_         20140105
Time_         16.41
INSTRUM       spect
PROBHD        5 mm QNP 1H/1
PULPROG       zg30
TD            65536
SOLVENT       CDCl3
NS            4
DS            2
SWH           8278.146 Hz
FIDRES        0.126314 Hz
AQ            3.9584243 sec
RG            50.8
DW            60.400 usec
DE            6.00 usec
TE            288.8 K
D1            2.00000000 sec
MCREST        0.00000000 sec
MCWRK         0.01500000 sec

===== CHANNEL f1 =====
NUC1          1H
P1            14.80 usec
PL1           -2.00 dB
SFO1         400.1332010 MHz

F2 - Processing parameters
SI            32768
SF           400.1300091 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
    
```



```

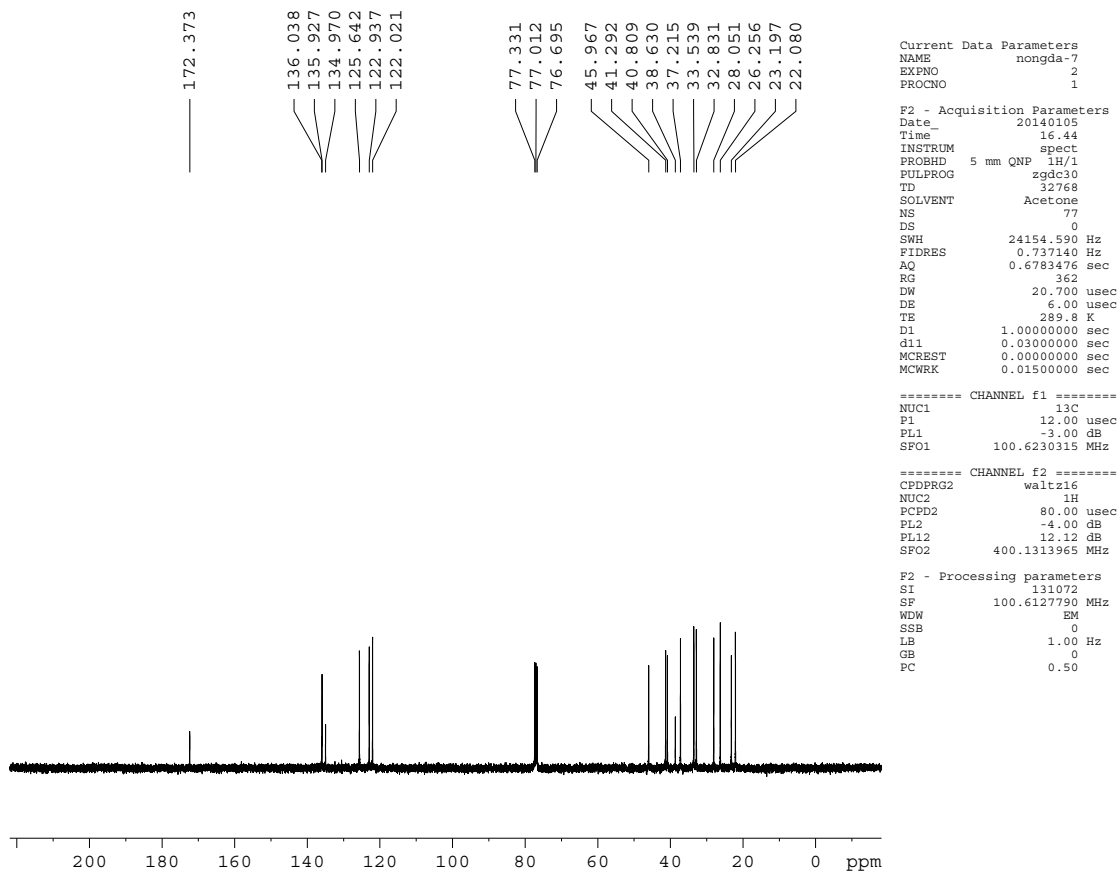
Current Data Parameters
NAME          nongda-7
EXPNO         1
PROCNO        1

F2 - Acquisition Parameters
Date_         20140105
Time_         16.41
INSTRUM       spect
PROBHD        5 mm QNP 1H/1
PULPROG       zg30
TD            65536
SOLVENT       CDCl3
NS            4
DS            2
SWH           8278.146 Hz
FIDRES        0.126314 Hz
AQ            3.9584243 sec
RG            50.8
DW            60.400 usec
DE            6.00 usec
TE            288.8 K
D1            2.00000000 sec
MCREST        0.00000000 sec
MCWRK         0.01500000 sec

===== CHANNEL f1 =====
NUC1          1H
P1            14.80 usec
PL1           -2.00 dB
SFO1         400.1332010 MHz

F2 - Processing parameters
SI            32768
SF           400.1300091 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
    
```

¹³C NMR of compound 8g:



```

Current Data Parameters
NAME      nongda-7
EXPNO    2
PROCNO    1

F2 - Acquisition Parameters
Date_     20140105
Time      16.44
INSTRUM   spect
PROBHD    5 mm QNP 1H/1
PULPROG   zgdc30
TD         32768
SOLVENT   Acetone
NS         77
DS         0
SWH        24154.590 Hz
FIDRES     0.737140 Hz
AQ         0.6783476 sec
RG         362
DW         20.700 usec
DE         6.00 usec
TE         289.8 K
D1         1.0000000 sec
d11        0.0300000 sec
MCREST    0.0000000 sec
MCWRK     0.0150000 sec
    
```

```

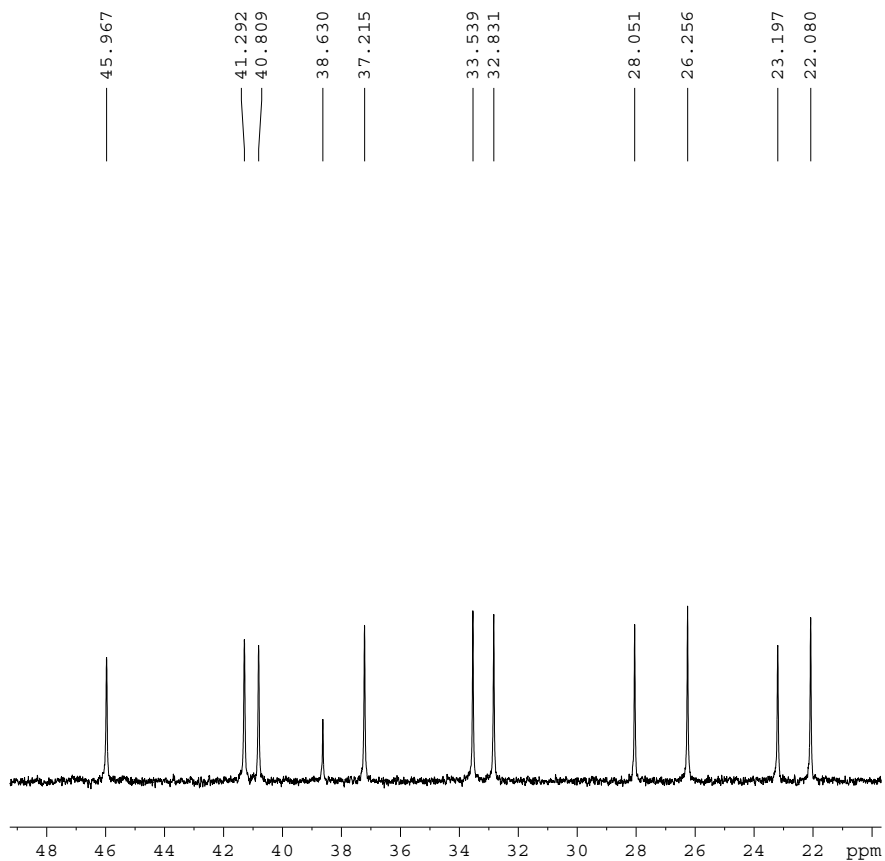
===== CHANNEL f1 =====
NUC1      13C
P1        12.00 usec
PL1       -3.00 dB
SFO1     100.6230315 MHz
    
```

```

===== CHANNEL f2 =====
CPDPRG2   waltz16
NUC2       1H
PCPD2     80.00 usec
PL2        -4.00 dB
PL12       12.12 dB
SFO2     400.1313965 MHz
    
```

```

F2 - Processing parameters
SI         131072
SF        100.6127790 MHz
WDW        EM
SSB         0
LB         1.00 Hz
GB         0
PC         0.50
    
```



```

Current Data Parameters
NAME      nongda-7
EXPNO    2
PROCNO    1

F2 - Acquisition Parameters
Date_     20140105
Time      16.44
INSTRUM   spect
PROBHD    5 mm QNP 1H/1
PULPROG   zgdc30
TD         32768
SOLVENT   Acetone
NS         77
DS         0
SWH        24154.590 Hz
FIDRES     0.737140 Hz
AQ         0.6783476 sec
RG         362
DW         20.700 usec
DE         6.00 usec
TE         289.8 K
D1         1.0000000 sec
d11        0.0300000 sec
MCREST    0.0000000 sec
MCWRK     0.0150000 sec
    
```

```

===== CHANNEL f1 =====
NUC1      13C
P1        12.00 usec
PL1       -3.00 dB
SFO1     100.6230315 MHz
    
```

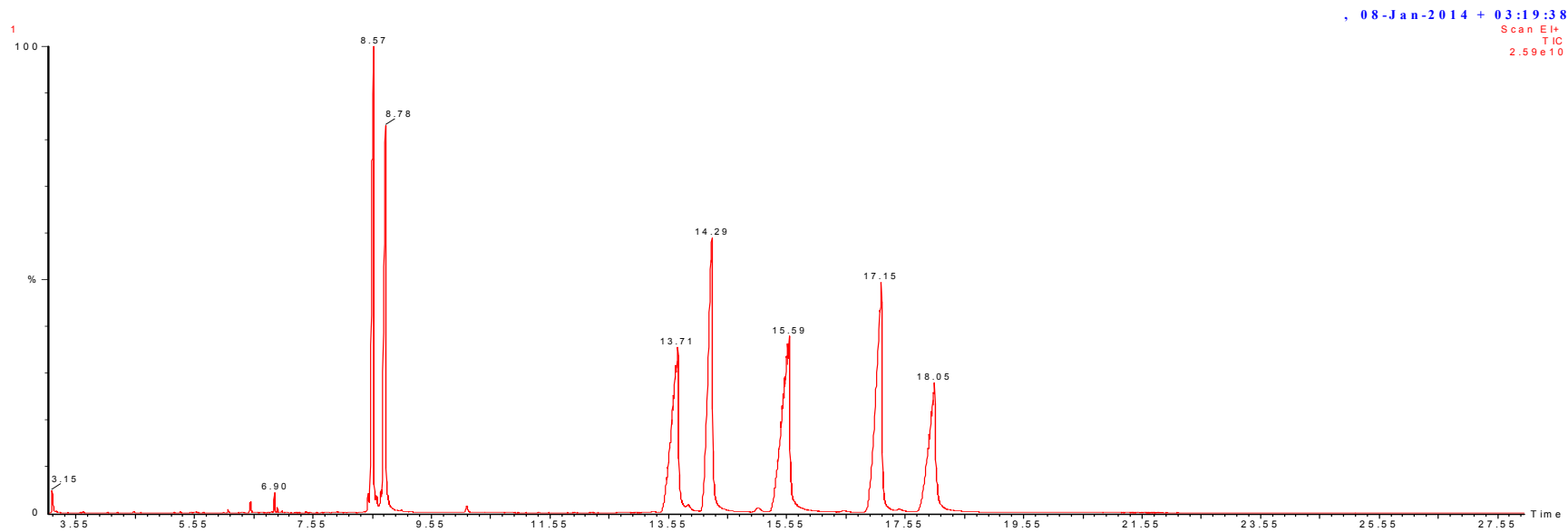
```

===== CHANNEL f2 =====
CPDPRG2   waltz16
NUC2       1H
PCPD2     80.00 usec
PL2        -4.00 dB
PL12       12.12 dB
SFO2     400.1313965 MHz
    
```

```

F2 - Processing parameters
SI         131072
SF        100.6127790 MHz
WDW        EM
SSB         0
LB         1.00 Hz
GB         0
PC         0.50
    
```

GC-MS spectrums of Compound 8a-8g



retention time of compounds:

Compound 8a: 8.57 min

Compound 8b: 8.78 min

Compound 8c: 13.71 min

Compound 8d: 15.59 min

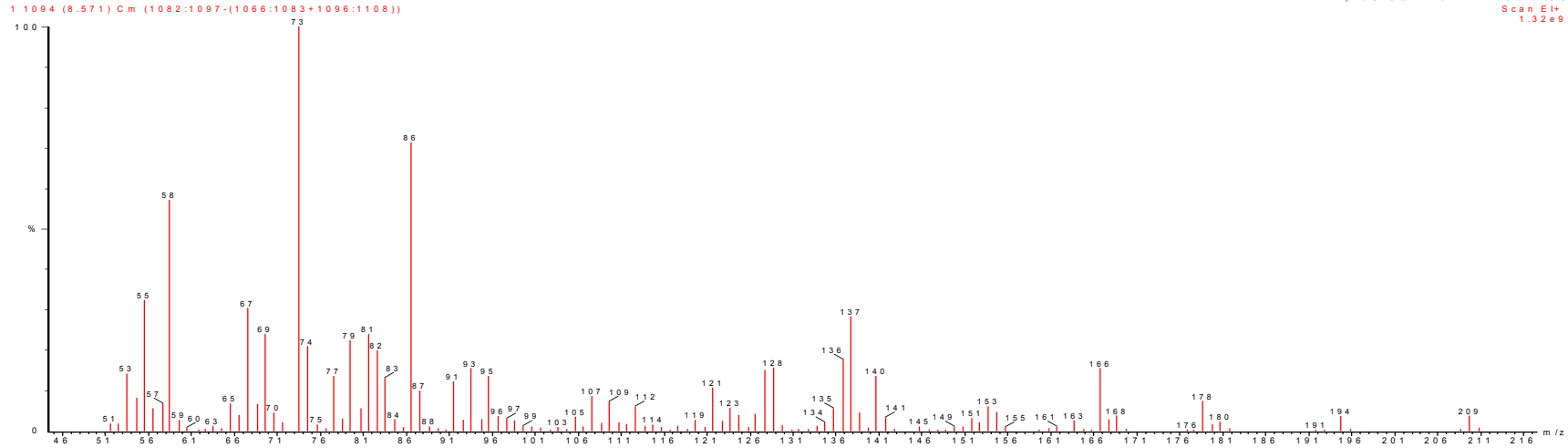
Compound 8e: 14.29 min

Compound 8f: 18.05 min

Compound 8g: 17.15 min

Compound 8a

, 08-Jan-2014 + 03:19:38
Scan E1+
1.32e9

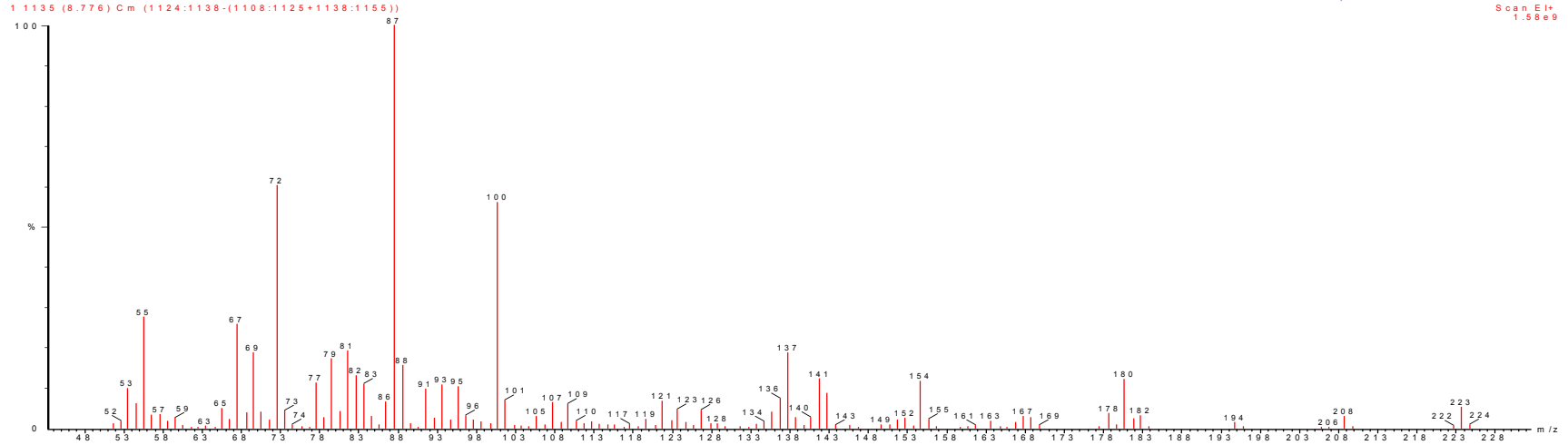


1 1094 (8.571) C m (1082:1097-(1066:1083+1096:1108))

No. Mass	Inten	% BPI	% TIC	No. Mass	Inten	% BPI	% TIC	No. Mass	Inten	% BPI	% TIC	No. Mass	Inten	% BPI	% TIC	No. Mass	Inten	% BPI	% TIC
1	51	2.24e7	1.76	0.21	47	98	3.12e7	2.36	0.29	93	146	2.61e6	0.20	0.02	189	17	3.69e7	2.78	0.34
2	52	2.24e7	1.69	0.21	48	99	1.42e7	1.07	0.13	94	147	1.46e6	0.11	0.01	190	18	4.87e7	3.68	0.45
3	53	1.85e8	13.96	1.71	49	100	1.19e7	0.89	0.11	95	148	1.83e6	0.14	0.02	191	19	1.35e7	1.03	0.13
4	54	1.05e8	7.93	0.97	50	101	8.33e6	0.63	0.08	96	149	1.12e7	0.85	0.10	192	20	6.53e7	7.20	0.88
5	55	4.26e8	32.16	3.93	51	102	2.07e6	0.16	0.02	97	150	1.29e7	0.97	0.12	193	21	1.92e7	1.45	0.18
6	56	7.19e7	5.43	0.66	52	103	9.18e6	0.69	0.08	98	151	3.91e7	2.95	0.36	194	22	4.96e7	3.52	0.43
7	57	8.69e7	6.56	0.80	53	104	4.12e6	0.31	0.04	99	152	2.56e7	1.93	0.24	195	23	1.27e7	0.95	0.12
8	58	7.55e8	57.07	6.98	54	105	4.40e7	3.32	0.41	100	153	7.72e7	5.83	0.71	196	24	1.75e8	13.21	1.59
9	59	3.41e7	2.59	0.32	55	106	1.12e7	0.84	0.10	101	154	5.89e7	4.45	0.54	197	25	1.27e7	0.95	0.12
10	60	8.71e6	0.66	0.08	56	107	1.11e8	8.40	1.03	102	155	1.07e7	0.81	0.10	198	26	6.96e6	0.53	0.06
11	61	2.93e6	0.19	0.02	57	108	2.41e7	1.82	0.22	103	156	1.82e6	0.14	0.02	199	27	1.01e7	0.76	0.09
12	62	3.49e6	0.26	0.03	58	109	9.28e7	7.01	0.86	104	160	6.96e6	0.53	0.06	200	28	1.39e8	10.54	1.29
13	63	1.41e7	1.07	0.13	59	110	2.69e7	2.03	0.25	105	161	1.12e7	0.85	0.10	201	29	1.92e7	1.45	0.18
14	64	5.10e6	0.39	0.05	60	111	1.93e7	1.46	0.18	106	163	3.10e7	2.34	0.29	202	30	4.96e7	3.52	0.43
15	65	8.84e7	6.68	0.82	61	112	7.74e7	5.85	0.72	107	164	4.94e6	0.37	0.05	203	31	1.27e7	0.95	0.12
16	66	4.82e7	3.71	0.45	62	113	1.48e7	1.12	0.14	108	165	2.38e6	0.18	0.02	204	32	6.21e6	0.47	0.06
17	67	4.01e8	30.29	3.71	63	114	1.78e7	1.35	0.16	109	166	2.04e8	15.40	1.88	205	33	1.27e7	0.95	0.12
18	68	8.61e7	6.50	0.80	64	115	9.74e6	0.74	0.09	110	167	3.69e7	2.78	0.34	206	34	1.39e8	10.54	1.29
19	69	3.16e8	23.85	2.92	65	116	2.57e6	0.19	0.02	111	168	4.87e7	3.68	0.45	207	35	1.35e7	1.03	0.13
20	70	5.85e7	4.42	0.54	66	117	1.35e7	1.03	0.13	112	169	4.83e6	0.36	0.04	208	36	1.92e7	1.45	0.18
21	71	2.60e7	1.97	0.24	67	118	4.22e6	0.32	0.04	113	176	2.90e6	0.22	0.03	209	37	1.27e7	0.95	0.12
22	73	1.32e9	100.00	12.23	68	119	3.35e7	2.53	0.31	114	177	2.33e6	0.18	0.02	210	38	1.27e7	0.95	0.12
23	74	2.75e8	20.79	2.34	69	120	1.01e7	0.76	0.09	115	178	1.01e7	0.76	0.09	211	39	1.27e7	0.95	0.12
24	75	1.80e7	1.36	0.17	70	121	1.39e8	10.54	1.29	116	179	1.92e7	1.45	0.18	212	40	4.66e7	3.52	0.43
25	76	6.13e6	0.46	0.06	71	122	3.06e7	2.31	0.28	117	180	2.74e7	2.07	0.25	213	41	1.27e7	0.95	0.12
26	77	1.77e8	13.33	1.63	72	123	7.31e7	5.52	0.68	118	181	6.21e6	0.47	0.06	214	42	1.27e7	0.95	0.12
27	78	3.74e7	2.82	0.35	73	124	4.96e7	3.75	0.46	119	181	2.75e6	0.21	0.03	215	43	1.27e7	0.95	0.12
28	79	2.94e8	22.24	2.72	74	125	1.01e7	0.76	0.09	120	192	2.57e6	0.19	0.02	216	44	4.66e7	3.52	0.43
29	80	7.24e7	5.47	0.67	75	126	5.47e7	4.13	0.51	121	194	4.66e7	3.52	0.43	217	45	1.27e7	0.95	0.12
30	81	3.14e8	23.75	2.91	76	127	1.98e8	14.92	1.63	122	195	4.63e6	0.35	0.04	218	46	1.27e7	0.95	0.12
31	82	2.60e8	19.67	2.41	77	128	2.05e8	15.51	1.90	123	208	4.40e6	0.33	0.04	219	47	1.27e7	0.95	0.12
32	83	1.72e8	13.02	1.59	78	129	1.51e7	1.14	0.14	124	209	4.74e7	3.58	0.44	220	48	1.27e7	0.95	0.12
33	84	3.60e7	2.72	0.33	79	130	2.69e6	0.20	0.02	125	210	7.22e6	0.55	0.07	221	49	1.27e7	0.95	0.12
34	85	9.00e6	0.68	0.08	80	131	4.71e6	0.36	0.04	222	211	1.27e7	0.95	0.12	223	50	1.27e7	0.95	0.12
35	86	9.42e8	71.16	8.70	81	132	3.19e6	0.24	0.03	224	212	1.27e7	0.95	0.12	225	51	1.27e7	0.95	0.12
36	87	1.30e8	9.83	1.20	82	133	1.39e7	1.05	0.13	226	213	1.27e7	0.95	0.12	227	52	1.27e7	0.95	0.12
37	88	1.16e7	0.88	0.11	83	134	2.64e7	2.00	0.24	228	214	1.27e7	0.95	0.12	229	53	1.27e7	0.95	0.12
38	89	6.26e6	0.47	0.06	84	135	7.24e7	5.47	0.67	230	215	1.27e7	0.95	0.12	231	54	1.27e7	0.95	0.12
39	90	2.87e6	0.22	0.03	85	136	2.31e8	17.43	2.13	232	216	1.27e7	0.95	0.12	233	55	1.27e7	0.95	0.12
40	91	1.59e8	12.02	1.47	86	137	3.73e8	28.21	3.45	234	217	1.27e7	0.95	0.12	235	56	1.27e7	0.95	0.12
41	92	3.35e7	2.53	0.31	87	138	5.79e7	4.38	0.54	236	218	1.27e7	0.95	0.12	237	57	1.27e7	0.95	0.12
42	93	2.04e8	15.43	1.69	88	139	8.15e6	0.62	0.08	238	219	1.27e7	0.95	0.12	239	58	1.27e7	0.95	0.12
43	94	3.62e7	2.73	0.33	89	140	1.78e8	13.41	1.64	240	220	1.27e7	0.95	0.12	241	59	1.27e7	0.95	0.12
44	95	1.77e8	13.36	1.63	90	141	4.09e7	3.09	0.38	242	221	1.27e7	0.95	0.12	243	60	1.27e7	0.95	0.12
45	96	4.63e7	3.50	0.43	91	142	4.53e6	0.34	0.04	244	222	1.27e7	0.95	0.12	245	61	1.27e7	0.95	0.12
46	97	3.84e7	2.90	0.36	92	145	1.16e7	0.87	0.11	246	223	1.27e7	0.95	0.12	247	62	1.27e7	0.95	0.12

Compound 8b

08-Jan-2014 + 03:19:38
Scan E1+
1.58e9

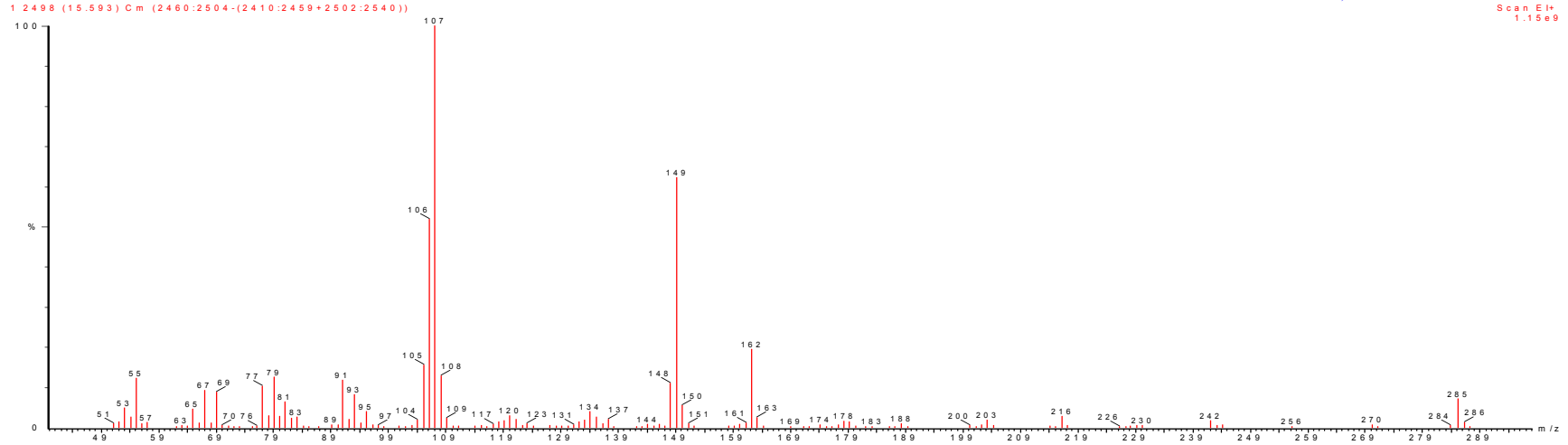


1 1135 (8.776) C m (1124:1138-(1108:1125+1138:1155))

No	Mass	Inten	% BPI	% TIC	No	Mass	Inten	% BPI	% TIC	No	Mass	Inten	% BPI	% TIC	No	Mass	Inten	% BPI	% TIC	No	Mass	Inten	% BPI	% TIC
1	51	1.78e7	1.13	0.17	47	97	3.15e7	1.99	0.30	93	146	9.34e6	0.59	0.09										
2	52	2.52e7	1.60	0.24	48	98	2.33e7	1.48	0.22	94	146	1.93e6	0.12	0.02										
3	53	1.54e8	9.74	1.45	49	99	1.56e7	0.99	0.15	95	146	1.29e7	0.81	0.12										
4	54	9.62e7	6.09	0.91	50	100	8.95e8	86.07	8.34	96	150	1.19e7	0.76	0.11										
5	55	4.34e8	27.51	4.09	51	101	1.08e8	684	1.02	97	151	3.02e7	1.91	0.28										
6	56	6.03e7	3.19	0.47	52	102	1.05e7	0.66	0.10	98	152	3.85e7	2.44	0.36										
7	57	5.12e7	3.24	0.48	53	103	7.33e6	0.46	0.07	99	153	7.99e6	0.51	0.08										
8	58	2.57e7	1.62	0.24	54	104	3.89e6	0.25	0.04	100	154	1.32e8	11.54	1.72										
9	59	3.88e7	2.46	0.37	55	105	4.51e7	2.86	0.43	101	155	3.40e7	2.15	0.32										
10	60	1.35e6	0.89	0.13	56	106	1.27e7	0.81	0.12	102	156	4.77e6	0.30	0.04										
11	61	2.02e6	0.13	0.02	57	107	9.88e7	6.26	0.93	103	159	2.55e6	0.16	0.02										
12	62	1.81e6	0.11	0.02	58	108	2.19e7	1.38	0.21	104	160	4.28e6	0.27	0.04										
13	63	6.72e6	0.43	0.06	59	109	9.30e7	5.89	0.88	105	161	1.01e7	0.64	0.10										
14	64	3.41e6	0.22	0.03	60	110	2.52e7	1.60	0.24	106	163	2.71e7	1.72	0.26										
15	65	7.59e7	4.81	0.72	61	111	1.60e7	1.02	0.15	107	164	3.94e6	0.25	0.04										
16	66	3.35e7	2.12	0.32	62	112	2.43e7	1.54	0.23	108	165	2.42e6	0.15	0.02										
17	67	4.07e8	25.76	3.83	63	113	1.33e7	0.84	0.13	109	166	2.11e7	1.34	0.20										
18	68	5.89e7	3.73	0.56	64	114	1.37e7	0.74	0.11	110	167	4.33e7	2.87	0.43										
19	69	2.94e8	18.63	2.77	65	115	1.30e7	0.83	0.12	111	168	3.97e7	2.51	0.37										
20	70	6.19e7	3.92	0.58	66	116	1.95e6	0.12	0.02	112	169	8.98e6	0.57	0.08										
21	71	3.16e7	2.00	0.30	67	117	1.51e7	0.96	0.14	113	177	4.59e6	0.29	0.04										
22	72	9.05e8	60.18	8.96	68	118	4.76e6	0.30	0.04	114	178	5.79e7	3.67	0.55										
23	73	6.83e7	4.20	0.63	69	119	3.28e7	2.08	0.31	115	179	1.14e7	0.72	0.11										
24	74	1.19e7	0.75	0.11	70	120	8.61e6	0.54	0.08	116	180	1.89e8	12.00	1.79										
25	75	3.57e6	0.23	0.03	71	121	1.04e8	6.62	0.98	117	181	3.56e7	2.26	0.34										
26	76	3.11e6	0.20	0.03	72	122	2.78e7	1.76	0.26	118	182	4.77e7	3.02	0.45										
27	77	1.75e6	1.11	0.16	73	123	7.04e7	4.46	0.66	119	183	5.94e6	0.32	0.05										
28	78	3.94e7	2.49	0.37	74	124	2.24e7	1.42	0.21	120	194	2.23e7	1.41	0.21										
29	79	2.71e6	1.71	0.25	75	125	9.01e6	0.57	0.08	121	195	5.52e6	0.34	0.05										
30	80	6.51e7	4.12	0.61	76	126	6.85e7	4.34	0.65	122	205	1.51e6	0.10	0.02										
31	81	3.03e6	1.91	0.28	77	127	1.61e7	1.02	0.15	123	206	6.52e6	0.41	0.06										
32	82	2.05e6	1.30	0.19	78	128	1.62e7	1.03	0.15	124	208	4.55e7	2.88	0.43										
33	83	1.71e6	1.04	0.15	79	129	4.91e6	0.31	0.05	125	209	5.77e6	0.35	0.05										
34	84	4.62e7	2.93	0.44	80	131	3.74e6	0.24	0.04	126	222	7.34e6	0.47	0.07										
35	85	1.25e7	0.79	0.12	81	132	2.04e6	0.13	0.02	127	223	8.97e7	5.71	0.76										
36	86	1.02e6	0.65	0.09	82	133	1.38e7	0.87	0.13	128	224	1.20e7	0.76	0.11										
37	87	1.58e9	100.00	14.88	83	134	2.06e7	1.49	0.22															
38	88	2.44e6	1.54	0.23	84	135	6.05e6	0.37	0.05															
39	89	1.70e7	1.08	0.16	85	136	1.15e8	7.26	1.08															
40	90	3.36e6	0.21	0.03	86	137	2.95e6	1.87	0.27															
41	91	1.53e6	0.98	0.14	87	138	4.10e7	2.60	0.39															
42	92	3.92e7	2.48	0.37	88	139	3.53e6	0.24	0.04															
43	93	1.69e6	1.07	0.16	89	140	4.11e7	2.60	0.39															
44	94	3.14e7	1.99	0.30	90	141	1.93e8	12.25	1.82															
45	95	1.63e6	1.03	0.15	91	142	1.36e6	0.89	0.12															
46	96	4.80e7	3.04	0.45	92	143	1.07e7	0.68	0.10															

Compound 8d

08-Jan-2014 + 03:19:38
Scan E1+
1.15e9

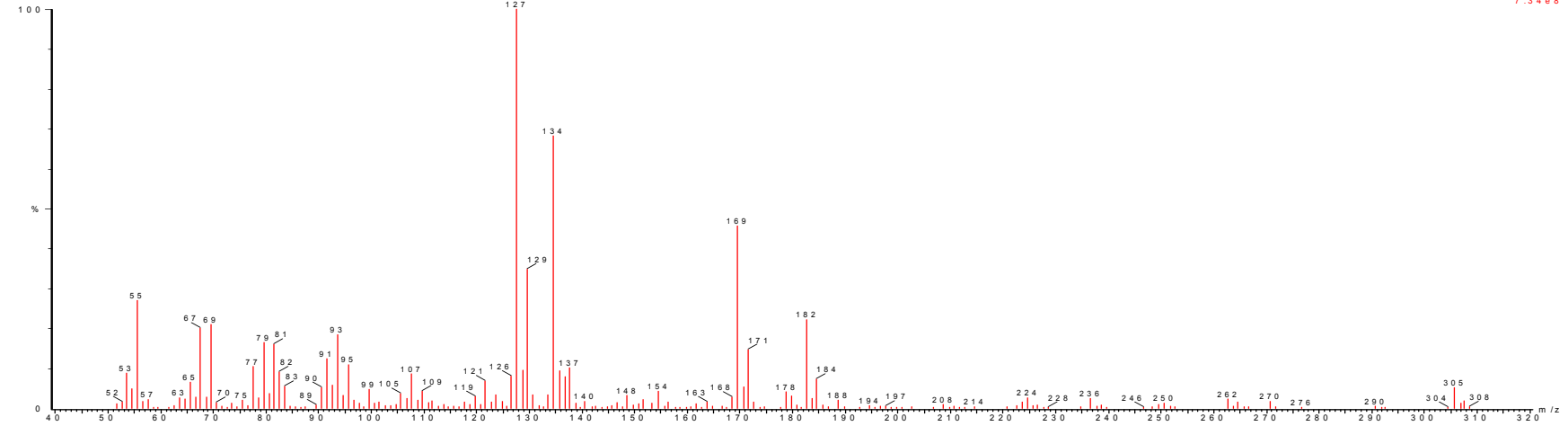


1 2498 (15.593) C m (2460:2504-(2410:2459+2502:2540))

No	Mass	Inten	%BPI	%TIC	No	Mass	Inten	%BPI	%TIC	No	Mass	Inten	%BPI	%TIC	No	Mass	Inten	%BPI	%TIC
1	51	1.07e7	0.93	0.20	47	106	5.96e6	51.60	11.06	93	164	2.66e6	0.23	0.05					
2	52	1.48e7	1.28	0.27	48	107	1.15e9	100.00	21.35	94	166	2.33e6	0.20	0.04					
3	53	5.62e7	4.88	1.04	49	108	1.47e8	12.73	2.72	95	171	1.21e6	0.11	0.02					
4	54	2.93e7	2.55	0.54	50	109	2.59e7	2.25	0.48	96	172	2.09e6	0.18	0.04					
5	55	1.40e8	12.16	2.60	51	110	4.16e6	0.36	0.08	97	174	6.75e6	0.59	0.13					
6	56	9.57e6	0.83	0.19	52	111	2.87e6	0.25	0.05	98	175	2.24e6	0.19	0.04					
7	57	1.34e7	1.17	0.25	53	114	3.04e6	0.26	0.06	99	176	1.85e6	0.16	0.03					
8	62	1.29e6	0.11	0.02	54	115	5.97e6	0.51	0.11	100	177	7.37e6	0.64	0.14					
9	63	5.81e6	0.50	0.11	55	116	1.81e6	0.14	0.03	101	178	1.69e7	1.47	0.31					
10	64	3.93e6	0.34	0.07	56	117	7.98e6	0.69	0.15	102	179	1.50e7	1.30	0.25					
11	65	9.22e7	4.54	0.97	57	118	1.49e7	1.29	0.28	103	180	3.63e6	0.32	0.07					
12	66	1.30e7	1.13	0.24	58	119	1.89e7	1.64	0.35	104	182	1.57e6	0.14	0.03					
13	67	1.06e8	9.19	1.96	59	120	3.27e7	2.83	0.63	105	183	1.60e6	0.14	0.03					
14	68	1.25e7	1.09	0.23	60	121	2.27e7	1.98	0.42	106	185	2.33e6	0.22	0.05					
15	69	1.00e8	8.70	1.86	61	122	5.92e6	0.51	0.11	107	187	1.20e6	0.10	0.02					
16	70	5.69e6	0.48	0.11	62	123	1.09e7	0.95	0.20	108	188	1.08e7	0.94	0.20					
17	71	2.69e6	0.23	0.05	63	124	2.73e6	0.24	0.05	109	189	2.35e6	0.20	0.04					
18	72	1.93e6	0.16	0.03	64	127	5.96e6	0.52	0.11	110	200	4.90e6	0.43	0.09					
19	73	2.23e6	0.19	0.04	65	128	2.72e6	0.24	0.05	111	201	1.93e6	0.17	0.04					
20	75	1.51e6	0.13	0.03	66	129	3.87e6	0.32	0.07	112	202	6.14e6	0.53	0.11					
21	76	3.05e6	0.27	0.06	67	130	4.16e6	0.36	0.08	113	203	2.07e7	1.80	0.38					
22	77	1.17e8	10.19	2.18	68	131	6.37e6	0.55	0.12	114	204	4.76e6	0.41	0.09					
23	78	3.37e7	2.93	0.63	69	132	1.21e7	1.01	0.22	115	214	3.99e6	0.35	0.07					
24	79	1.44e8	12.51	2.67	70	133	2.14e7	1.85	0.40	116	215	1.21e6	0.10	0.02					
25	80	3.13e7	2.71	0.58	71	134	4.45e7	3.87	0.83	117	216	3.19e7	2.77	0.59					
26	81	7.32e7	6.30	1.36	72	135	2.97e7	2.58	0.55	118	217	4.93e6	0.43	0.09					
27	82	2.58e7	2.24	0.48	73	136	1.58e7	0.84	0.18	119	226	2.31e6	0.20	0.04					
28	83	2.86e7	2.57	0.55	74	137	2.30e7	2.00	0.43	120	227	2.06e6	0.18	0.04					
29	84	2.79e6	0.24	0.05	75	138	2.54e6	0.22	0.05	121	228	2.64e6	0.23	0.05					
30	85	1.51e6	0.13	0.03	76	142	1.49e6	0.13	0.03	122	229	4.61e6	0.40	0.09					
31	87	2.35e6	0.20	0.04	77	143	1.17e6	0.10	0.02	123	230	4.66e6	0.40	0.09					
32	89	7.04e6	0.61	0.13	78	144	8.92e6	0.70	0.15	124	242	1.99e7	1.73	0.37					
33	90	6.50e6	0.56	0.12	79	145	3.87e6	0.34	0.07	125	243	4.66e6	0.41	0.09					
34	91	1.35e8	11.74	2.51	80	146	7.85e6	0.68	0.15	126	244	6.77e6	0.59	0.13					
35	92	2.34e7	2.03	0.43	81	147	3.09e6	0.27	0.06	127	256	5.43e6	0.21	0.05					
36	93	9.31e7	8.08	1.73	82	148	1.26e8	10.95	2.34	128	270	6.69e6	0.58	0.12					
37	94	2.87e7	1.12	0.24	83	149	7.15e8	62.13	13.27	129	271	1.37e6	0.12	0.03					
38	95	4.45e7	3.87	0.83	84	150	6.23e7	5.41	1.16	130	284	4.83e6	0.42	0.09					
39	96	6.93e6	0.60	0.13	85	151	9.81e6	0.85	0.18	131	285	6.07e7	5.01	1.00					
40	97	5.24e6	0.45	0.10	86	152	3.72e6	0.32	0.07	132	286	1.37e7	1.19	0.25					
41	98	2.23e6	0.19	0.04	87	158	2.43e6	0.21	0.05	133	287	1.42e6	0.12	0.03					
42	101	3.62e6	0.31	0.07	88	159	3.13e6	0.27	0.06										
43	102	1.44e6	0.13	0.03	89	160	7.98e6	0.68	0.15										
44	103	6.03e6	0.52	0.11	90	161	1.16e7	1.01	0.21										
45	104	2.03e7	1.76	0.38	91	162	2.24e8	19.41	4.14										
46	105	1.19e8	15.50	3.31	92	163	2.73e7	2.37	0.51										

Compound 8e

1 2238 (14.293) Cm (2210:2258-(2136:2215+2242:2314))



. 08-Jan-2014 + 03:19:38
Scan E1+
7.34e8

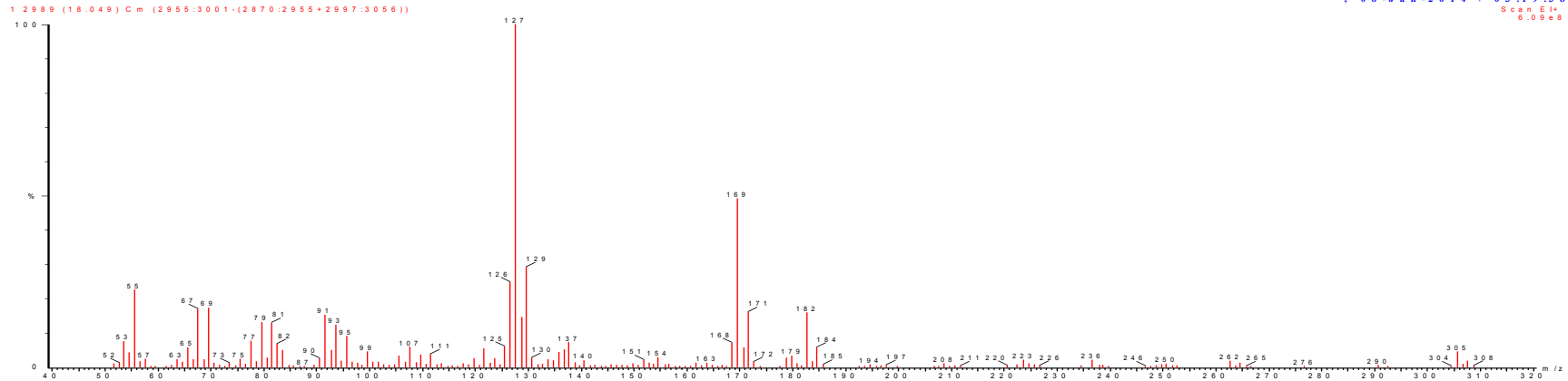
1 2238 (14.293) Cm (2210:2258-(2136:2215+2242:2314))

No.	Mass	Inten.	%BPI	%TIC	No.	Mass	Inten.	%BPI	%TIC	No.	Mass	Inten.	%BPI	%TIC	No.	Mass	Inten.	%BPI	%TIC	No.	Mass	Inten.	%BPI	%TIC
1	51	79346	1.08	0.15	47	99	34747	4.73	0.65	93	145	46066	6.33	0.89	139	199	10466	0.14	0.02					
2	52	11247	1.52	0.21	48	100	91026	1.23	0.17	94	146	98866	1.35	0.19	140	200	11966	0.20	0.03					
3	53	64147	8.73	1.21	49	101	11547	1.57	0.22	95	147	26566	0.36	0.05	141	201	18566	0.25	0.03					
4	54	35647	4.77	0.66	50	102	33246	0.53	0.07	96	148	23047	3.14	0.43	142	202	18866	0.20	0.03					
5	55	19846	2.69	0.37	51	103	48466	0.66	0.09	97	149	50466	0.81	0.11	143	203	70966	0.07	0.13					
6	56	12747	1.73	0.24	52	104	61146	0.83	0.11	98	150	73666	1.00	0.14	144	204	13466	0.18	0.03					
7	57	15047	2.04	0.28	53	105	28047	3.54	0.49	99	151	15947	2.17	0.30	145	210	34666	0.47	0.07					
8	58	13146	0.18	0.02	54	106	17147	2.33	0.32	100	153	85666	1.17	0.16	146	211	87066	0.12	0.02					
9	59	11846	0.16	0.02	55	107	62847	8.58	1.18	101	154	31447	4.28	0.59	147	212	12766	0.17	0.02					
10	61	12546	0.17	0.02	56	108	14647	1.99	0.27	102	156	28366	0.39	0.05	148	214	22866	0.31	0.04					
11	62	39646	0.54	0.07	57	109	31247	4.25	0.59	103	158	11447	1.56	0.21	149	220	22766	0.31	0.04					
12	63	19547	2.62	0.36	58	110	98146	1.34	0.18	104	157	11546	0.16	0.02	150	222	43366	0.66	0.09					
13	64	18747	2.27	0.31	59	111	13747	1.86	0.26	105	158	13746	0.19	0.03	151	223	11047	1.50	0.21					
14	65	47947	6.52	0.90	60	112	28346	0.39	0.05	106	159	13666	0.19	0.03	152	224	18947	2.58	0.36					
15	66	19447	2.64	0.37	61	113	65546	0.89	0.12	107	160	24946	0.34	0.05	153	225	43366	0.66	0.09					
16	67	14846	2.02	0.28	62	114	20246	0.28	0.04	108	161	79466	1.08	0.15	154	226	55166	0.75	0.10					
17	68	20047	2.72	0.38	63	115	31946	0.43	0.06	109	162	13166	0.18	0.02	155	227	80146	0.11	0.02					
18	69	13446	0.18	0.02	64	116	28046	0.38	0.05	110	163	11647	1.58	0.22	156	228	84466	0.11	0.02					
19	70	94846	0.29	0.04	65	117	10547	1.44	0.20	111	164	33446	0.45	0.06	157	234	27566	0.37	0.05					
20	71	35246	0.48	0.07	66	118	21446	2.99	0.41	112	165	11647	1.58	0.22	158	236	84466	0.11	0.02					
21	72	13746	0.19	0.03	67	119	21446	2.99	0.41	113	166	90466	0.12	0.02	159	237	28347	0.38	0.05					
22	73	87646	1.19	0.16	68	120	64346	0.88	0.12	114	168	20247	2.76	0.38	160	238	58866	0.80	0.11					
23	74	25046	0.34	0.05	69	121	24547	8.81	1.24	115	169	33546	4.50	0.62	161	239	81446	0.11	0.02					
24	75	14447	1.99	0.27	70	122	11347	1.53	0.21	116	170	38347	5.22	0.72	162	246	10366	0.14	0.02					
25	76	40046	0.55	0.08	71	123	24547	3.34	0.46	117	171	10846	14.88	2.03	163	248	67266	0.37	0.05					
26	77	78847	10.47	1.45	72	124	11547	1.58	0.22	118	172	10847	1.47	0.20	164	249	67266	0.37	0.05					
27	78	18847	2.56	0.35	73	127	38346	0.52	0.07	119	173	11946	0.16	0.02	165	255	87366	1.19	0.16					
28	79	12146	0.16	0.02	74	128	58847	8.00	1.11	120	174	24046	0.33	0.05	166	251	32166	0.44	0.06					
29	80	28447	9.10	1.26	75	127	24546	10.00	1.38	121	177	14847	2.00	0.27	167	252	11746	0.16	0.02					
30	81	11746	0.16	0.02	76	128	70147	9.55	1.32	122	178	20847	4.03	0.56	168	262	18247	2.21	0.30					
31	82	64847	9.10	1.26	77	129	24546	34.76	4.80	123	177	22347	3.04	0.42	169	263	30466	0.41	0.06					
32	83	40347	5.49	0.76	78	130	23947	3.26	0.45	124	180	55846	0.76	0.10	170	264	18847	1.47	0.20					
33	84	37946	0.52	0.07	79	131	48646	0.66	0.09	125	181	48646	0.66	0.09	171	265	18847	1.47	0.20					
34	85	29846	0.28	0.04	80	132	18946	0.26	0.04	126	182	18246	2.09	0.29	172	266	18366	0.25	0.03					
35	86	6946	0.09	0.01	81	133	24546	0.34	0.05	127	183	17947	2.44	0.34	173	270	18847	1.47	0.20					
36	87	18946	0.26	0.04	82	134	50046	6.81	0.94	128	184	53147	7.23	1.00	174	271	18847	0.27	0.04					
37	89	60246	0.82	0.11	83	135	68947	9.38	1.30	129	185	51446	0.70	0.10	175	268	18366	0.25	0.03					
38	90	38147	5.20	0.72	84	136	57347	7.81	1.08	130	186	17846	0.24	0.03	176	290	33366	0.49	0.07					
39	91	91147	12.41	1.71	85	137	68947	10.08	1.39	131	187	73847	10.08	1.39	177	289	18366	0.25	0.03					
40	92	41847	5.69	0.79	86	138	91346	1.24	0.17	132	189	18646	0.25	0.04	178	292	12066	0.16	0.02					
41	93	27946	0.38	0.05	87	139	91346	1.24	0.17	133	189	18646	0.25	0.04	179	293	18366	0.25	0.03					
42	94	27946	0.38	0.05	88	140	91346	1.24	0.17	134	192	48146	0.65	0.09	180	305	87766	1.12	0.15					
43	96	11547	0.16	0.02	89	141	11547	0.16	0.02	135	194	11546	0.16	0.02	181	306	97766	1.24	0.17					
44	96	11547	0.16	0.02	90	142	20846	0.28	0.04	136	196	31146	0.42	0.06	182	307	18847	1.47	0.20					
45	97	92346	1.26	0.17	91	143	13646	0.19	0.03	137	197	31346	0.43	0.06	183	308	21366	0.29	0.04					
46	98	25346	0.34	0.05	92	144	24446	0.33	0.05	138	198	11546	0.16	0.02										

. 08-Jan-2014 + 03:19:38
Scan E1+

Compound 8f

08-Jan-2014 + 03:19:38
Scan E1+
6.09e8



1 2989 (18.049) C m (2955:3001-(2870:2955+2997:3056))

No	Mass	Inten	%BPI	%TIC	No	Mass	Inten	%BPI	%TIC	No	Mass	Inten	%BPI	%TIC	No	Mass	Inten	%BPI	%TIC
1	51	57186	0.94	0.16	47	99	28297	4.32	0.73	93	146	31956	0.90	0.10	139	203	69066	0.11	0.02
2	52	60060	0.99	0.17	48	100	84266	1.38	0.23	94	146	23466	0.39	0.07	140	206	53366	0.88	0.15
3	53	45067	7.46	1.25	49	101	73966	1.31	0.22	95	147	26566	0.44	0.07	141	209	117466	0.19	0.03
4	54	24467	4.00	0.68	50	102	34466	0.57	0.10	96	148	15266	0.25	0.04	142	210	20866	0.34	0.09
5	55	13666	22.42	3.79	51	103	31166	0.51	0.09	97	149	54466	0.89	0.15	143	211	62566	0.10	0.02
6	56	93466	1.53	0.26	52	104	38566	0.63	0.11	98	150	31866	0.52	0.09	144	220	20466	0.34	0.06
7	57	13767	2.25	0.38	53	105	19167	3.14	0.53	99	151	12267	2.01	0.34	145	222	39866	0.66	0.11
8	58	11366	0.19	0.03	54	106	84366	1.38	0.23	100	152	62666	1.00	0.17	146	223	11867	1.95	0.33
9	59	11866	0.19	0.03	55	107	35167	5.77	0.98	101	153	42766	0.70	0.12	147	224	52066	0.85	0.14
10	61	90466	0.15	0.03	56	108	70866	1.16	0.20	102	154	13567	2.72	0.46	148	225	38666	0.63	0.11
11	62	30966	0.51	0.09	57	109	21367	3.50	0.59	103	155	32466	0.53	0.09	149	226	14966	0.25	0.04
12	63	12667	2.11	0.36	58	110	46566	0.76	0.13	104	156	64366	0.79	0.13	150	234	18366	0.30	0.05
13	64	84266	1.38	0.23	59	111	21667	3.54	0.60	105	157	80766	0.13	0.02	151	236	11867	1.93	0.33
14	65	34067	5.59	0.95	60	112	32066	0.54	0.09	106	158	63866	0.11	0.02	152	237	27066	0.44	0.08
15	66	12567	2.12	0.36	61	113	56966	0.94	0.16	107	159	10166	0.17	0.03	153	238	31366	0.51	0.09
16	67	10366	16.88	2.86	62	114	92566	0.15	0.03	108	160	67066	0.11	0.02	154	239	63466	0.10	0.02
17	68	13067	2.14	0.36	63	115	20366	0.33	0.06	109	161	66966	1.10	0.19	155	246	94766	0.16	0.03
18	69	13566	17.22	2.91	64	116	13566	0.22	0.04	110	162	10966	0.28	0.05	156	247	63466	0.10	0.02
19	70	63566	1.05	0.18	65	117	58766	0.06	0.16	111	163	67066	1.10	0.19	157	248	17066	0.28	0.05
20	71	28766	0.44	0.07	66	118	32566	0.53	0.09	112	164	23766	0.47	0.08	158	249	38866	0.64	0.11
21	72	13666	0.22	0.04	67	119	14667	2.39	0.40	113	165	84266	0.14	0.02	159	250	45266	0.74	0.13
22	73	67766	1.11	0.19	68	120	30066	0.49	0.08	114	166	20866	0.49	0.08	160	251	19766	0.32	0.05
23	74	18766	0.31	0.05	69	121	32467	5.32	0.90	115	167	10366	0.17	0.03	161	252	14166	0.23	0.04
24	75	13667	2.23	0.38	70	122	66966	1.10	0.19	116	168	42567	6.99	1.18	162	262	97266	1.60	0.27
25	76	46566	1.57	0.27	71	123	15167	2.47	0.42	117	169	23966	4.19	0.73	163	263	17566	0.29	0.05
26	77	45967	7.55	1.28	72	124	37466	0.61	0.10	118	170	33967	5.57	0.94	164	264	68366	1.12	0.19
27	78	90566	1.57	0.27	73	125	15467	6.81	1.18	119	171	97667	16.04	2.71	165	265	11966	0.19	0.03
28	79	79167	13.00	2.20	74	126	15066	24.65	4.17	120	172	81866	1.34	0.23	166	266	10566	0.17	0.03
29	80	15767	2.57	0.44	75	127	61966	10.00	16.92	121	173	75966	0.33	0.05	167	276	10766	0.18	0.03
30	81	77867	12.78	2.16	76	128	87967	14.45	2.44	122	177	95566	0.16	0.03	168	290	25766	0.42	0.07
31	82	43967	6.92	1.14	77	129	61966	29.09	4.92	123	178	13267	3.00	0.42	169	302	64966	0.14	0.03
32	83	23967	0.39	0.07	78	130	15266	0.89	0.15	124	179	13867	2.09	0.35	170	304	63866	0.15	0.03
33	84	29166	0.48	0.08	79	131	36466	0.60	0.10	125	180	59266	0.92	0.16	171	305	26967	4.41	0.75
34	85	77766	0.33	0.06	80	132	61566	0.69	0.12	126	181	11266	0.28	0.05	172	306	16266	0.24	0.04
35	86	68966	0.11	0.02	81	133	12767	2.08	0.35	127	182	99667	15.88	2.69	173	307	10067	1.64	0.28
36	87	77466	0.12	0.02	82	134	10767	1.76	0.30	128	183	61366	1.07	0.18	174	308	15366	0.25	0.04
37	89	30566	0.50	0.09	83	135	25767	4.21	0.71	129	184	33967	5.57	0.94					
38	90	14767	2.42	0.41	84	136	30767	5.04	0.85	130	185	63366	0.10	0.02					
39	91	91467	15.02	2.54	85	137	42767	7.02	1.19	131	192	93166	0.15	0.03					
40	92	29067	4.75	0.81	86	138	73466	1.21	0.20	132	193	63366	0.10	0.02					
41	93	74467	12.22	2.07	87	139	20866	0.34	0.06	133	194	37266	0.61	0.10					
42	94	93066	1.51	0.27	88	140	18967	1.79	0.30	134	195	63366	0.10	0.02					
43	95	54167	8.89	1.51	89	141	17966	0.29	0.05	135	196	23466	0.34	0.06					
44	96	61466	1.38	0.23	90	142	31466	0.52	0.09	136	197	24866	0.41	0.07					
45	97	68466	1.12	0.19	91	143	11266	0.18	0.03	137	199	10466	0.17	0.03					
46	98	24866	0.41	0.07	92	144	12766	0.21	0.04	138	206	10766	0.18	0.03					

