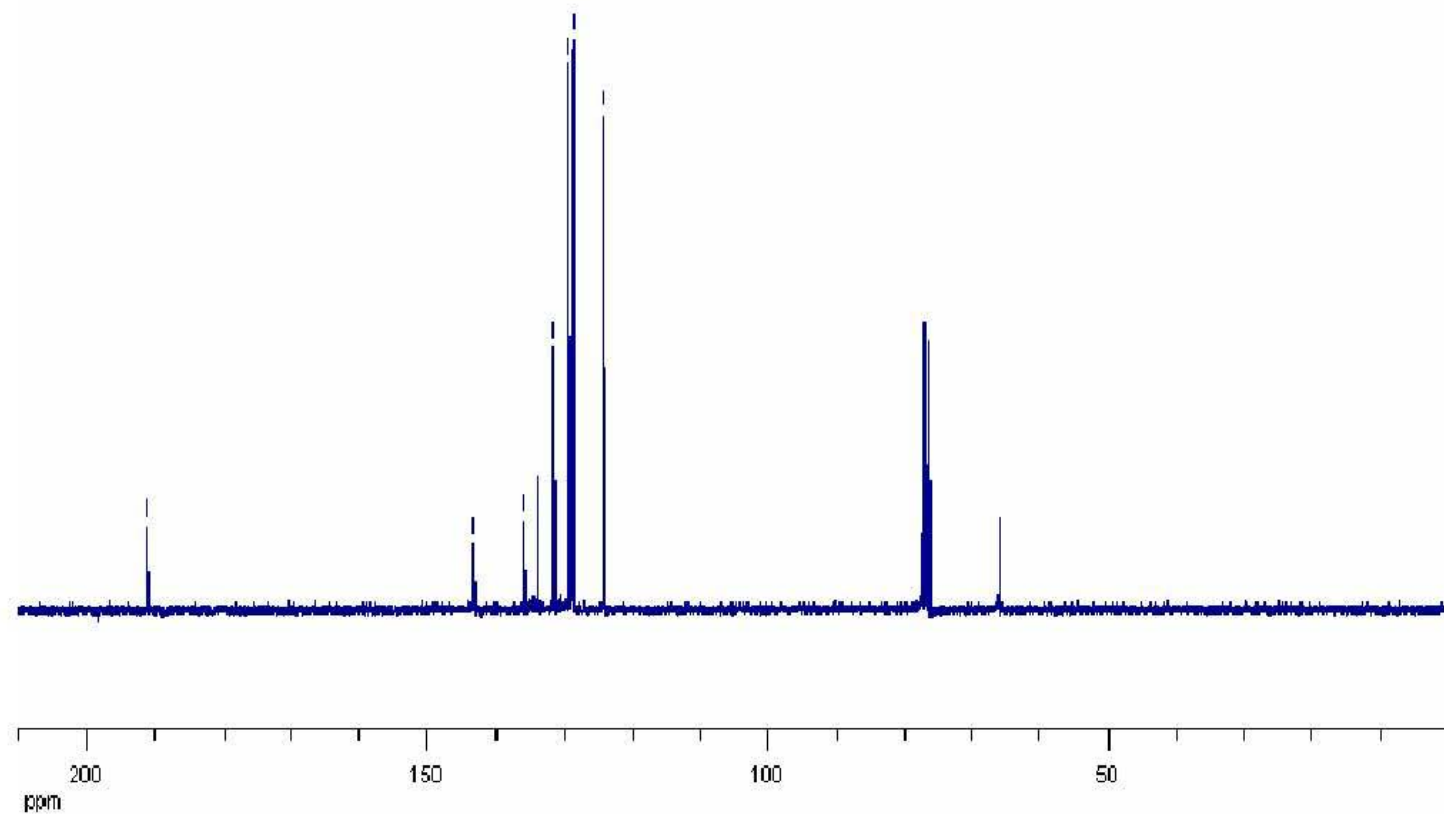
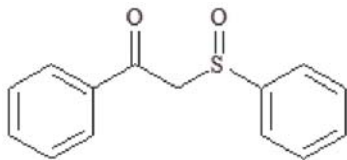


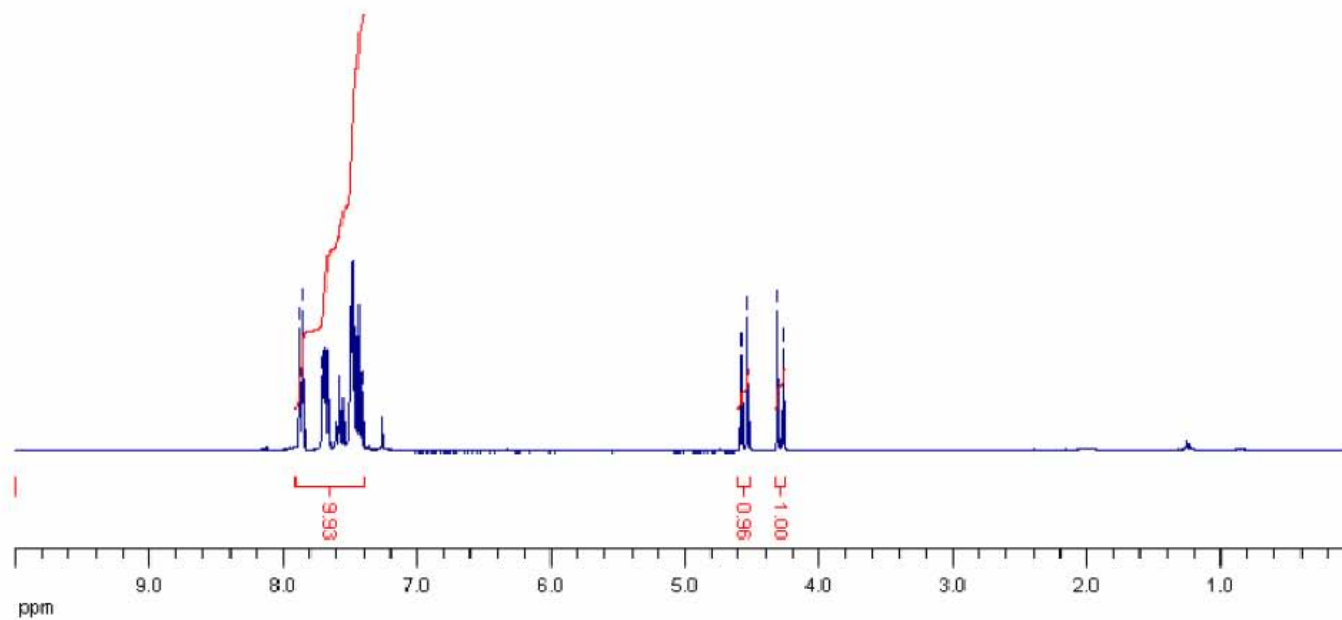
1-phenyl-2-(phenylsulfinyl)ethanone **3a**



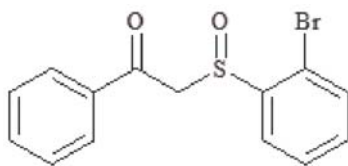
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME NOV29-2013
 EXPNO 421
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20131129
 Time 11.00
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 512
 DS 4
 SWH 29761.904 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010548 sec
 RG 36
 DW 16.800 usec
 DE 6.00 usec
 TE 295.1 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 9.60 usec
 PL1 -2.00 dB
 SFO1 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -3.00 dB
 PL12 14.31 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127690 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



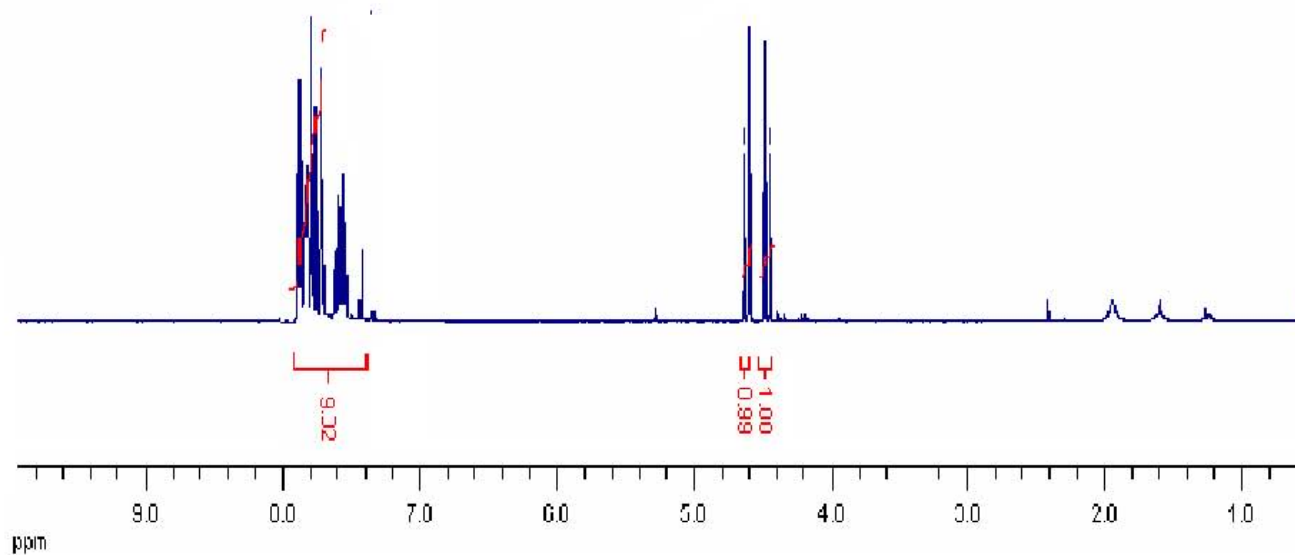
1-phenyl-2-(phenylsulfinyl)ethanone **3a**



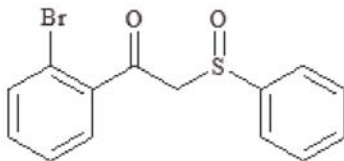
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME NOV26-2013
 EXPNO 420
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20131126
 Time 10.15
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 161
 DW 41.600 usec
 DE 6.00 usec
 TE 295.0 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300081 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



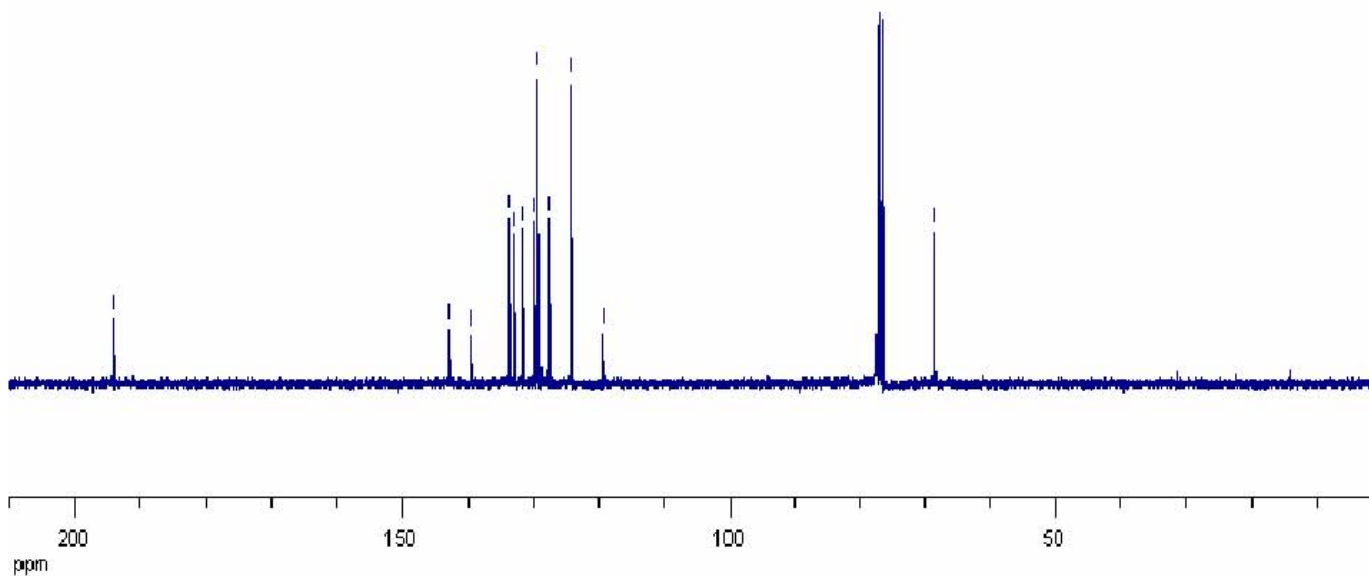
2-(2-bromophenylsulfinyl)-1-phenylethanone **3b**



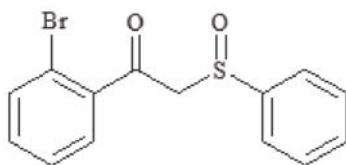
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME DEC15-2013
 EXPNO 420
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20131215
 Time 10.18
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 161
 DW 41.600 usec
 DE 6.00 usec
 TE 295.0 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300081 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



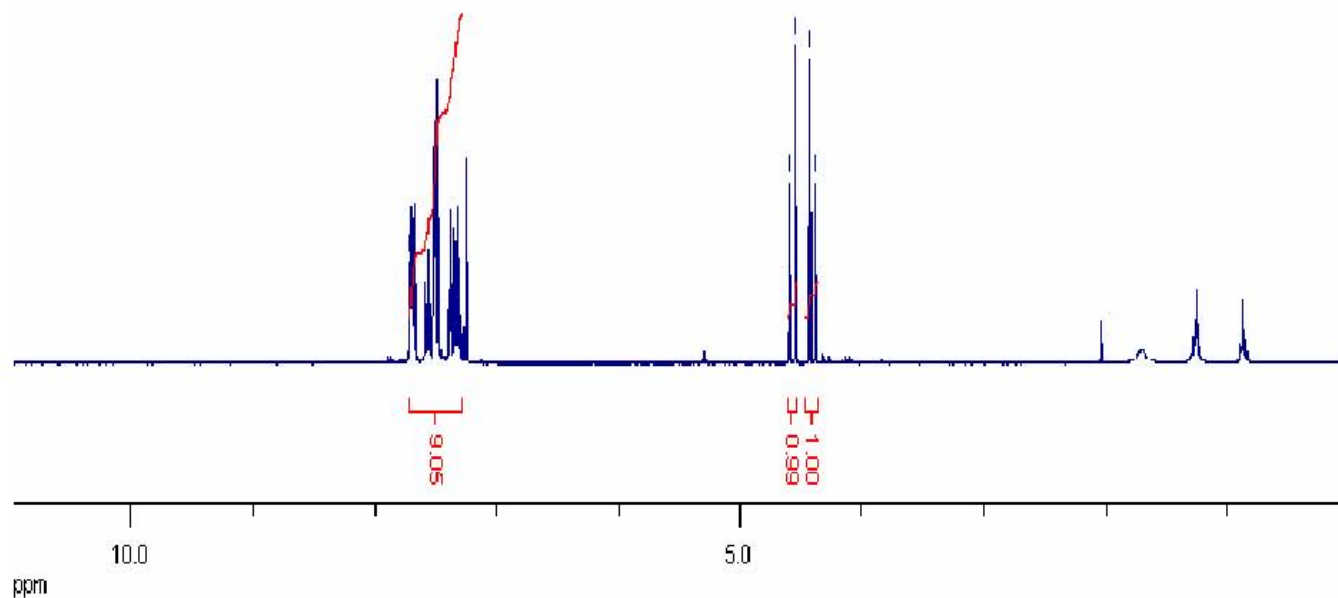
1-(2-bromophenyl)-2-(phenylsulfinyl)ethanone **3c**



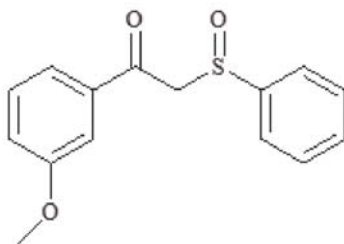
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME SEP11-2013
 EXPNO 421
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20130911
 Time 11.00
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 512
 DS 4
 SWH 29761.904 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010548 sec
 RG 36
 DW 16.800 usec
 DE 6.00 usec
 TE 295.1 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 9.60 usec
 PL1 -2.00 dB
 SFO1 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -3.00 dB
 PL12 14.31 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127690 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



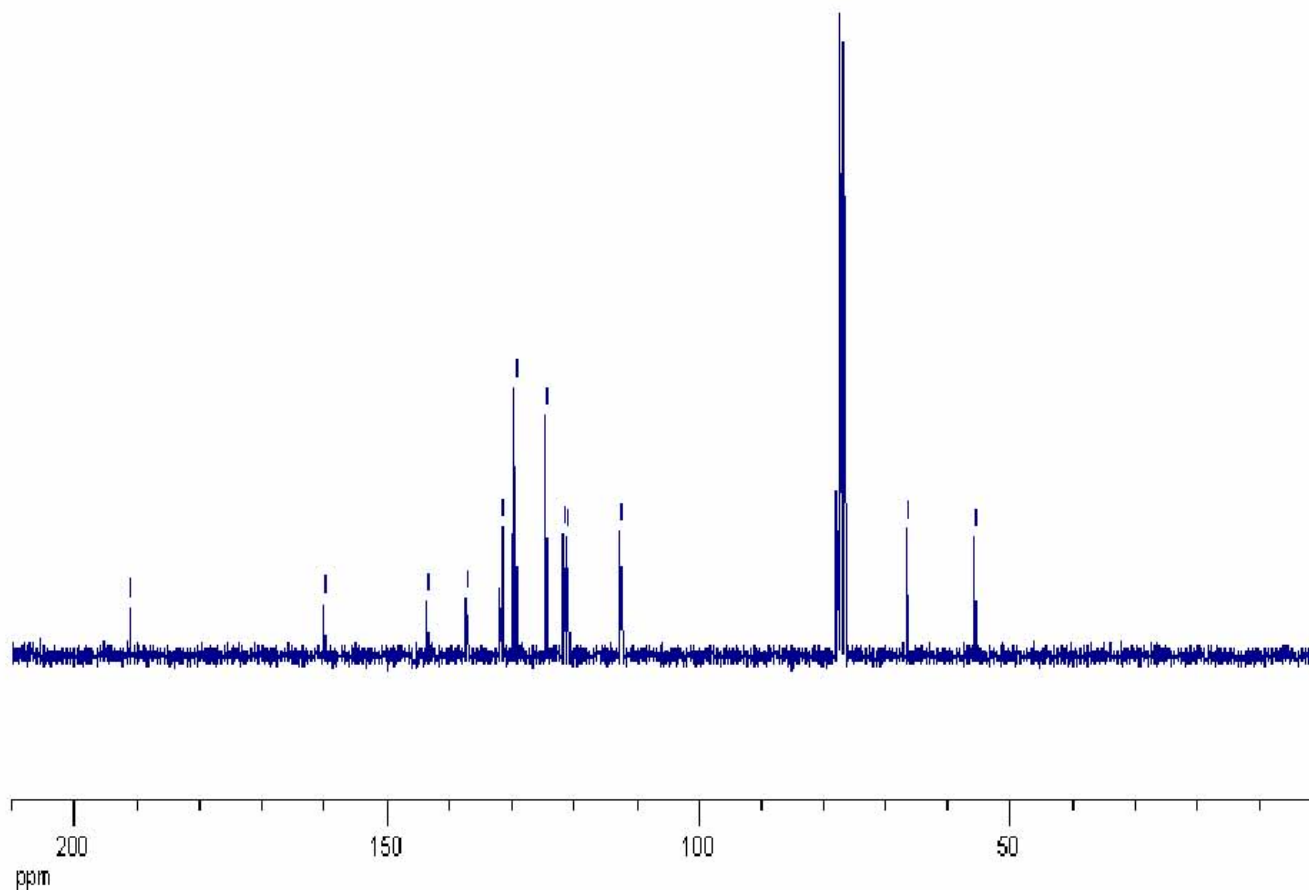
1-(2-bromophenyl)-2-(phenylsulfinyl)ethanone **3c**



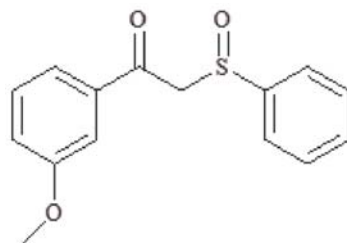
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME SEP11-2013
 EXPNO 420
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20130911
 Time 11.20
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 161
 DW 41.600 usec
 DE 6.00 usec
 TE 295.0 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300081 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



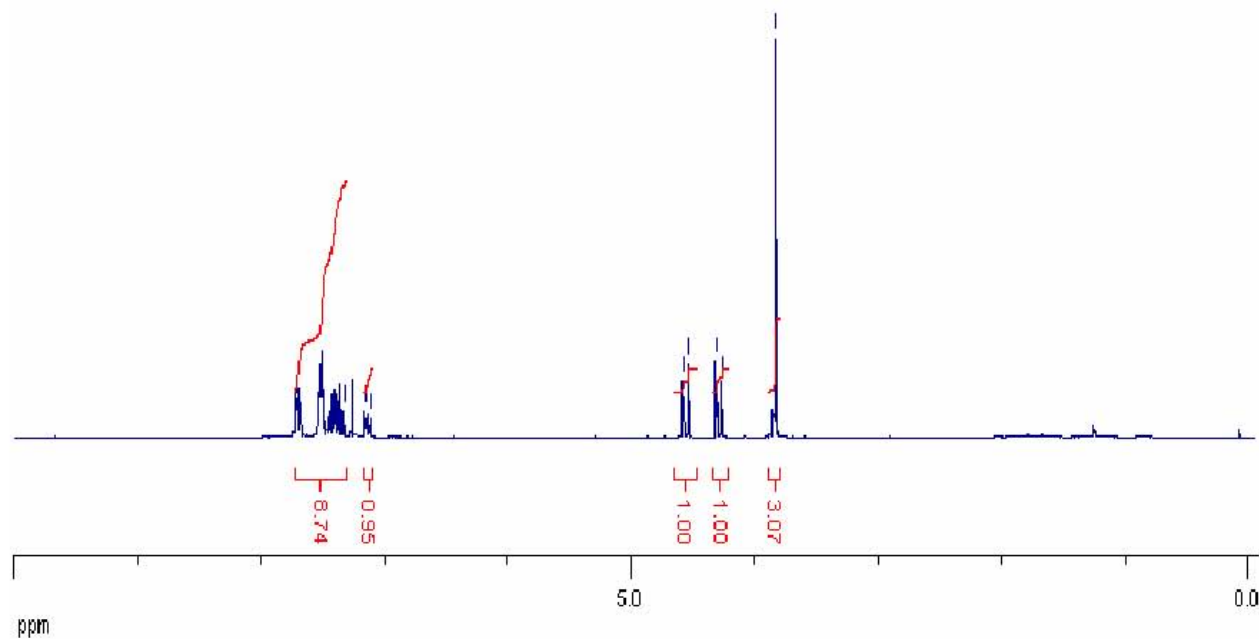
1-(3-methoxyphenyl)-2-(phenylsulfinyl)ethanone **3d**



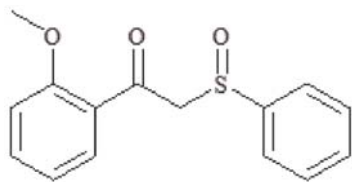
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME SEP24-2013
 EXPNO 421
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20130924
 Time 12.18
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 512
 DS 4
 SWH 29761.904 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010548 sec
 RG 36
 DW 16.800 usec
 DE 6.00 usec
 TE 295.1 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 9.60 usec
 PL1 -2.00 dB
 SFO1 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -3.00 dB
 PL12 14.31 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127690 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



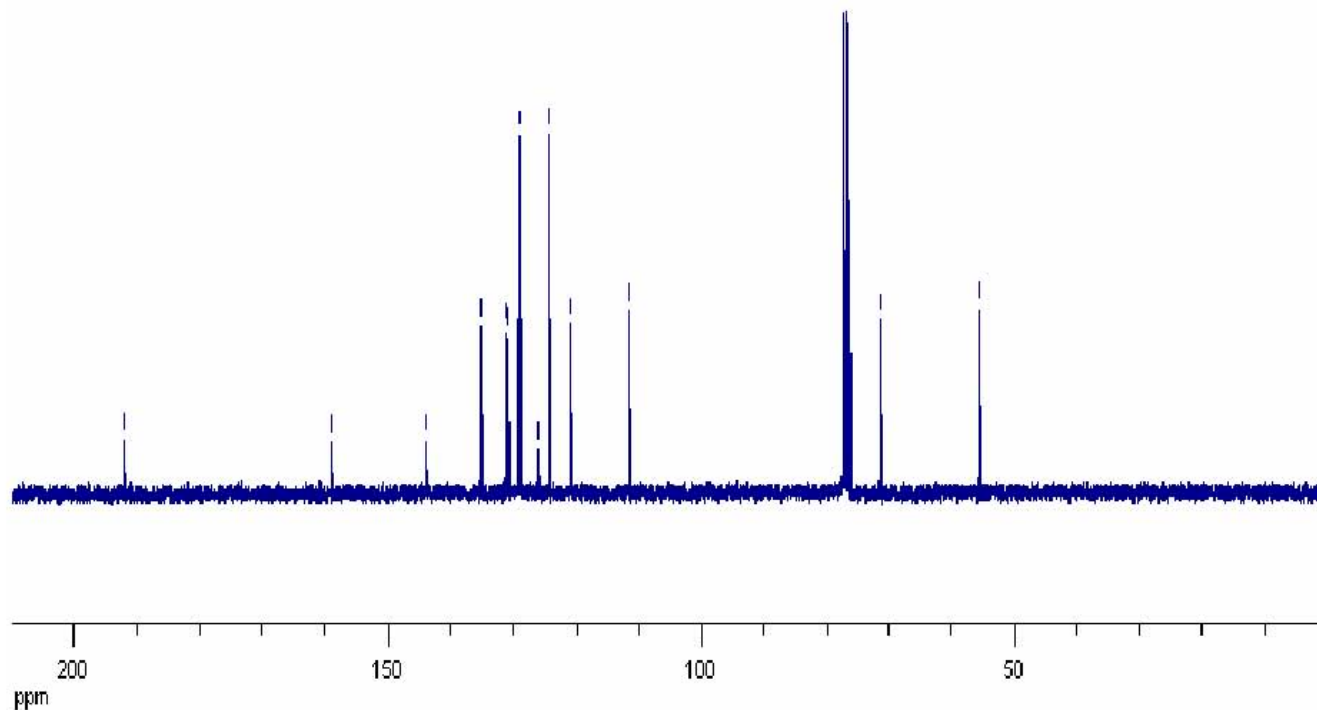
1-(3-methoxyphenyl)-2-(phenylsulfinyl)ethanone **3d**



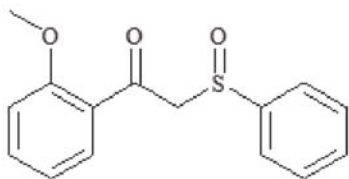
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME SEP23-2013
 EXPNO 420
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20130923
 Time 10.20
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 161
 DW 41.600 usec
 DE 6.00 usec
 TE 295.0 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300081 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



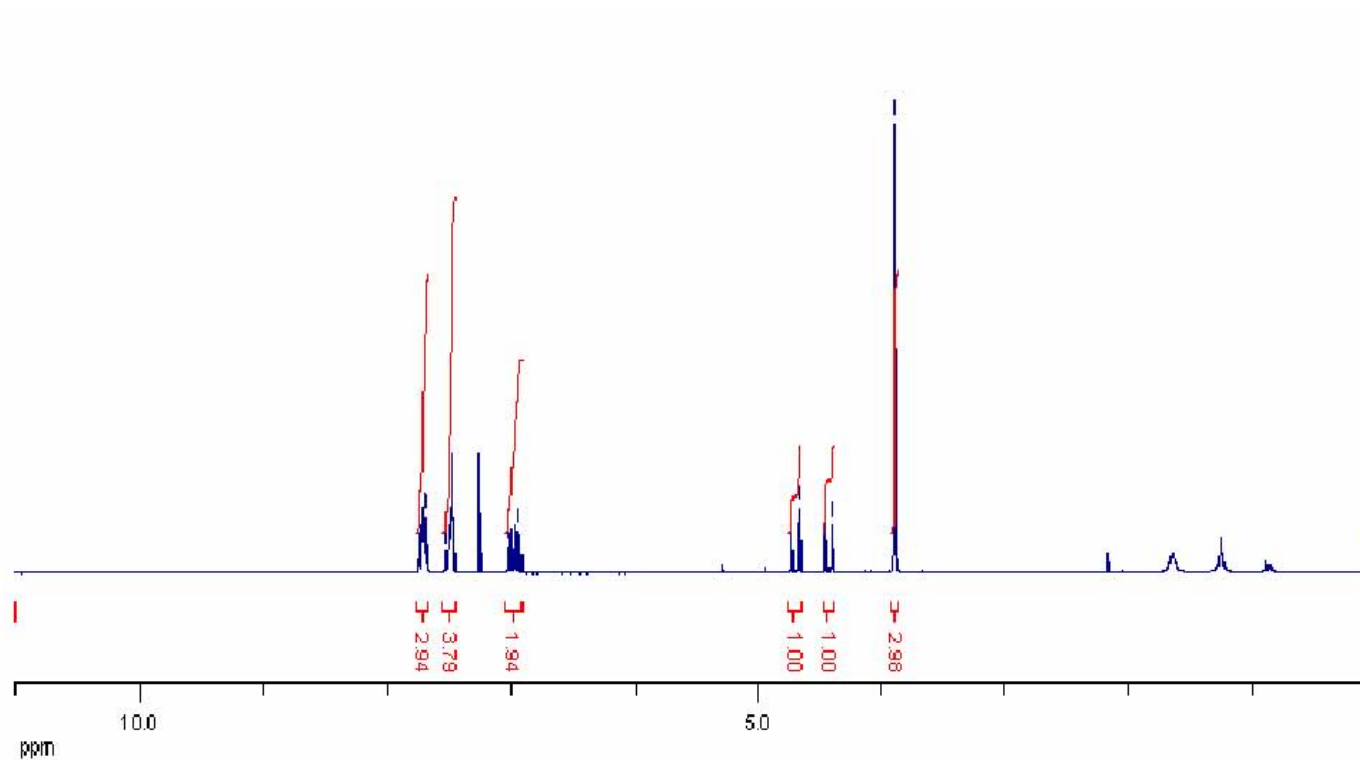
1-(2-methoxyphenyl)-2-(phenylsulfinyl)ethanone **3e**



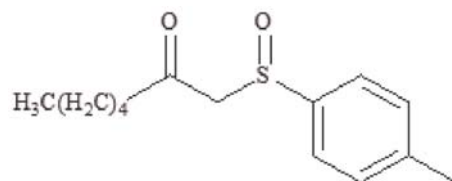
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME SEP30-2013
 EXPNO 421
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20130930
 Time 11.30
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 512
 DS 4
 SWH 29761.904 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010548 sec
 RG 36
 DW 16.800 usec
 DE 6.00 usec
 TE 295.1 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 9.60 usec
 PL1 -2.00 dB
 SFO1 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -3.00 dB
 PL12 14.31 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127690 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



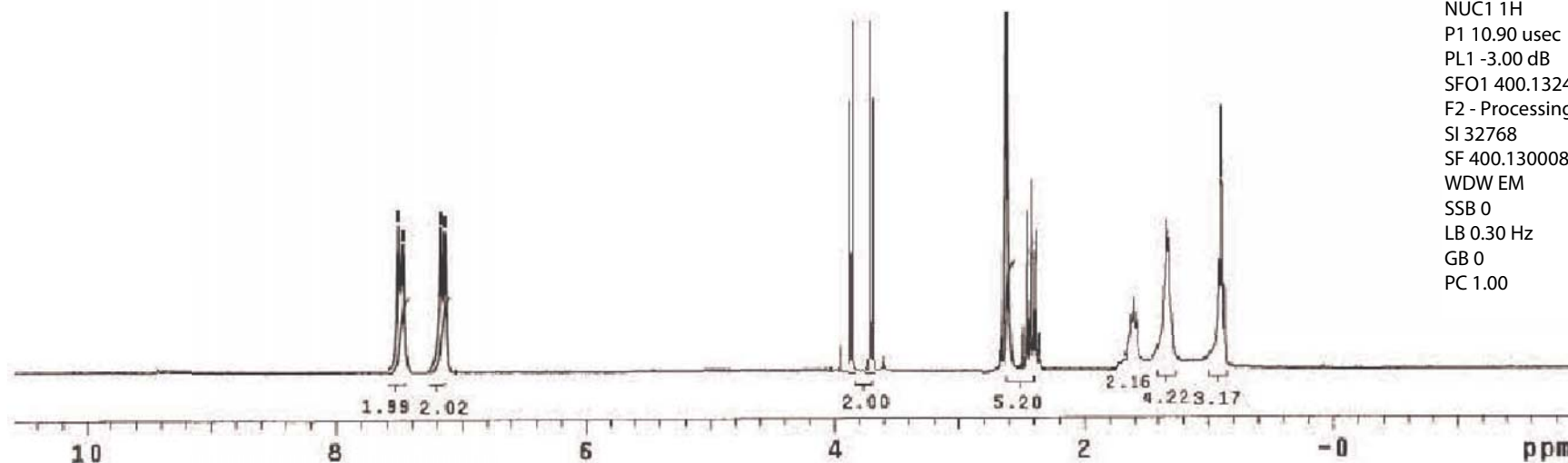
1-(2-methoxyphenyl)-2-(phenylsulfinyl)ethanone **3e**



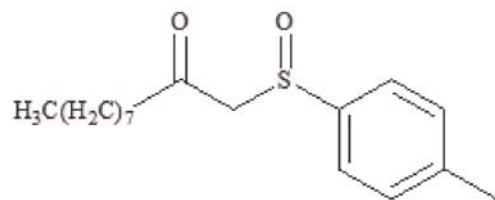
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME SEP29-2013
 EXPNO 420
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20130929
 Time 10.20
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 161
 DW 41.600 usec
 DE 6.00 usec
 TE 295.0 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300081 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



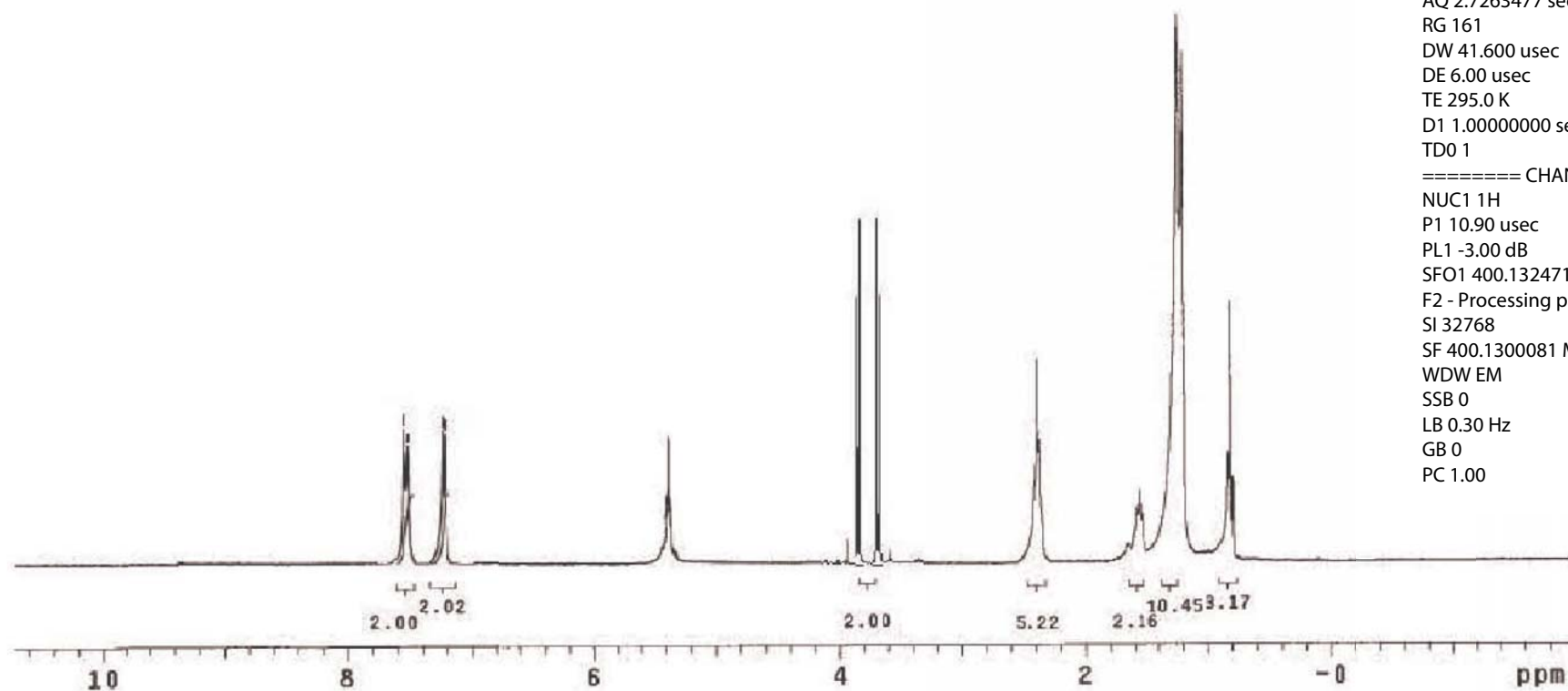
1-(p-tolylsulfinyl)heptan-2-one **3f**



BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME JAN22-2014
 EXPNO 420
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20140122
 Time 11.40
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zg30
 TD 65536
 SOLVENT CDCl₃
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 161
 DW 41.600 usec
 DE 6.00 usec
 TE 295.0 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300081 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



1-(p-tolylsulfinyl)decane-2-one **3g**



BRUKER

AVANCE II 400 NMR

Spectrometer

SAIF

Panjab University

Chandigarh

Current Data Parameters

NAME JAN29-2014

EXPNO 420

PROCNO 1

F2 - Acquisition Parameters

Date_ 20140129

Time 10.35

INSTRUM spect

PROBHD 5 mm PABBO BBPULPROG

zg30

TD 65536

SOLVENT CDCl3

NS 8

DS 2

SWH 12019.230 Hz

FIDRES 0.183399 Hz

AQ 2.7263477 sec

RG 161

DW 41.600 usec

DE 6.00 usec

TE 295.0 K

D1 1.00000000 sec

TD0 1

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

NUC1 1H

P1 10.90 usec

PL1 -3.00 dB

SFO1 400.1324710 MHz

F2 - Processing parameters

SI 32768

SF 400.1300081 MHz

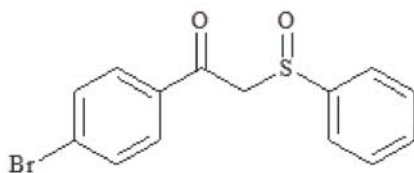
WDW EM

SSB 0

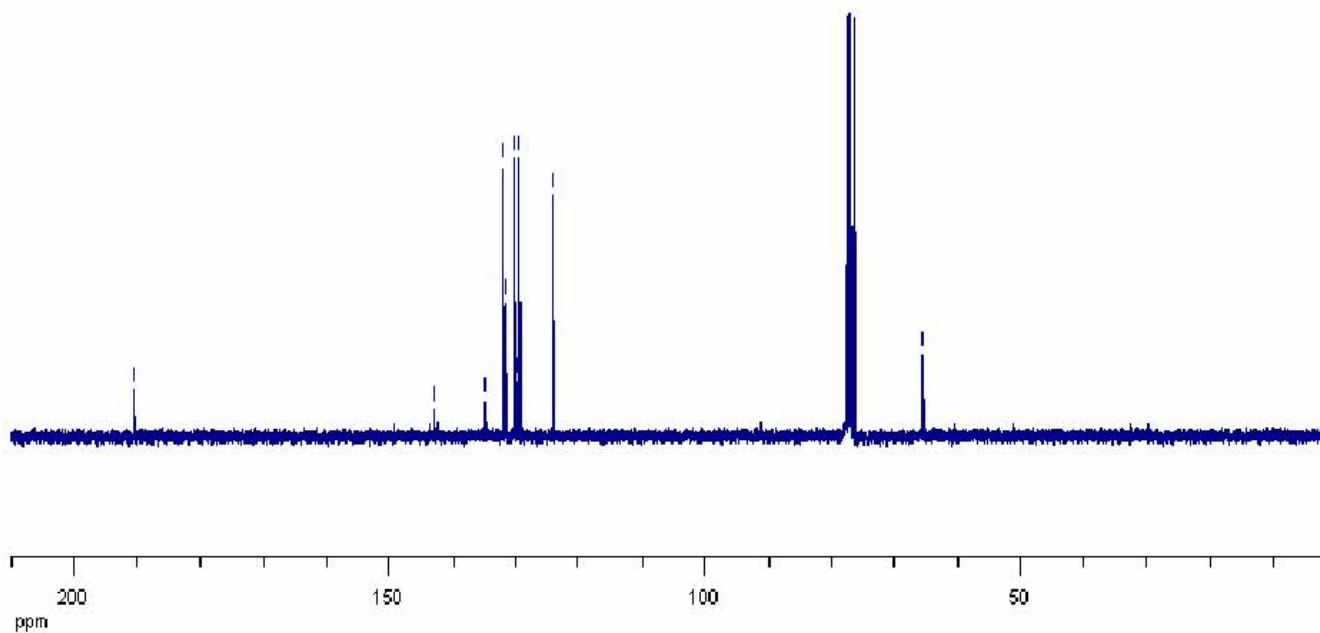
LB 0.30 Hz

GB 0

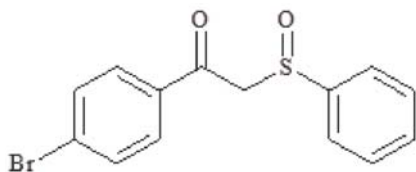
PC 1.00



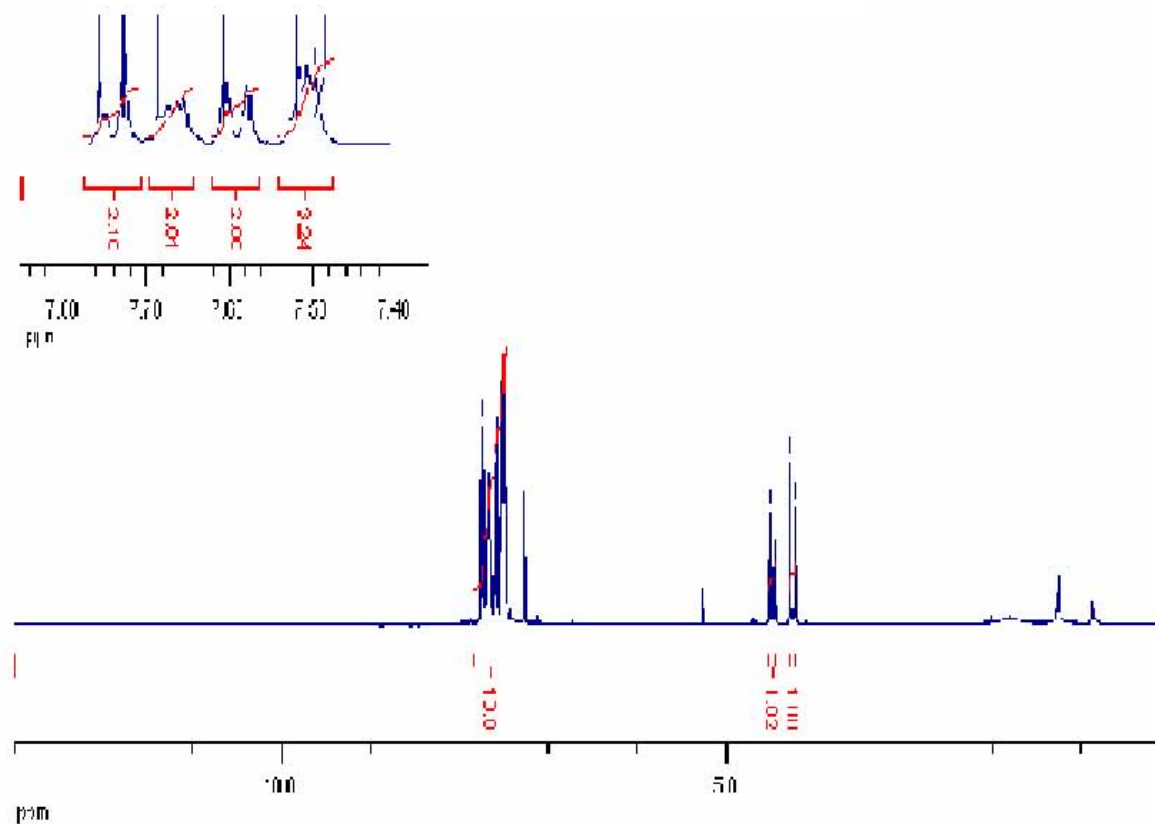
1-(4-bromophenyl)-2-(phenylsulfinyl)ethanone **3h**



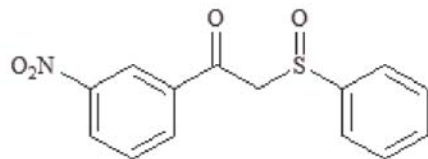
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME OCT06-2013
 EXPNO 421
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20131006
 Time 11.00
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 512
 DS 4
 SWH 29761.904 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010548 sec
 RG 36
 DW 16.800 usec
 DE 6.00 usec
 TE 295.1 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 9.60 usec
 PL1 -2.00 dB
 SFO1 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -3.00 dB
 PL12 14.31 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127690 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



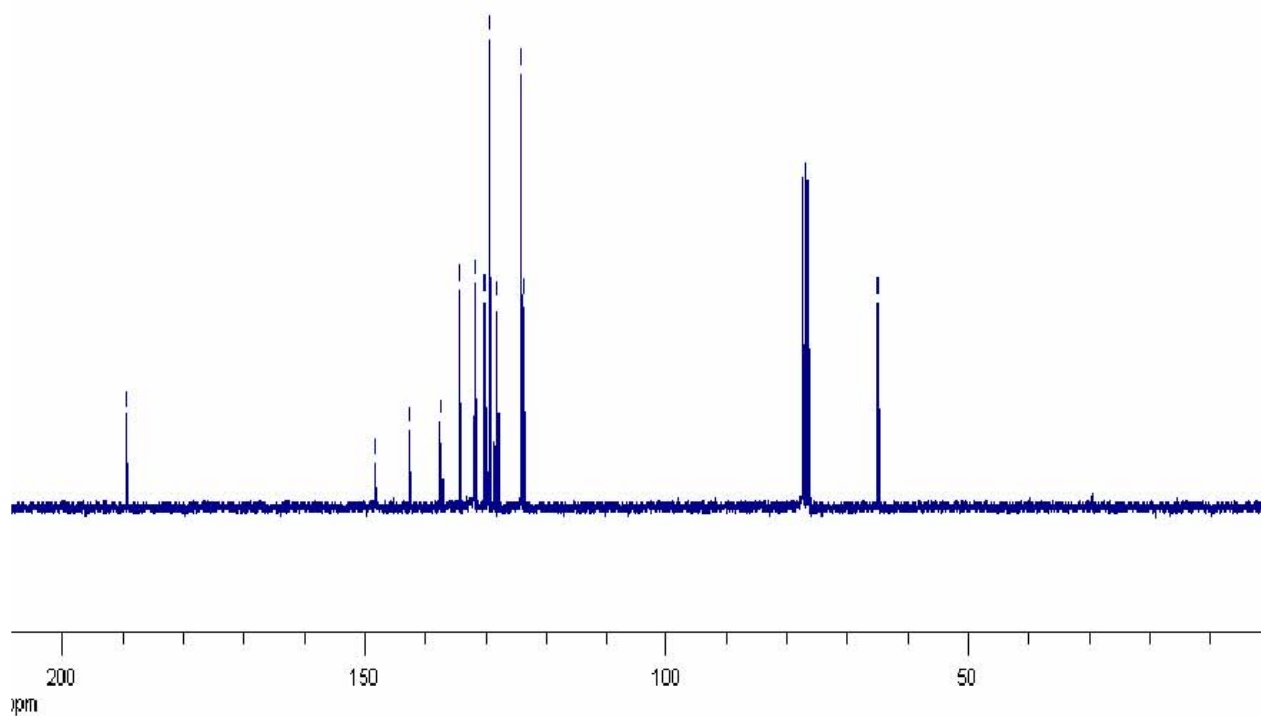
1-(4-bromophenyl)-2-(phenylsulfinyl)ethanone **3h**



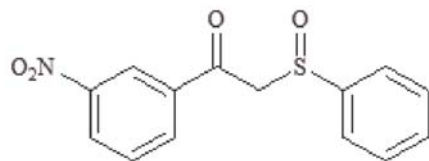
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME OCT5-2013
 EXPNO 420
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20131005
 Time 10.45
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zg30
 TD 65536
 SOLVENT CDCl₃
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 161
 DW 41.600 usec
 DE 6.00 usec
 TE 295.0 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300081 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



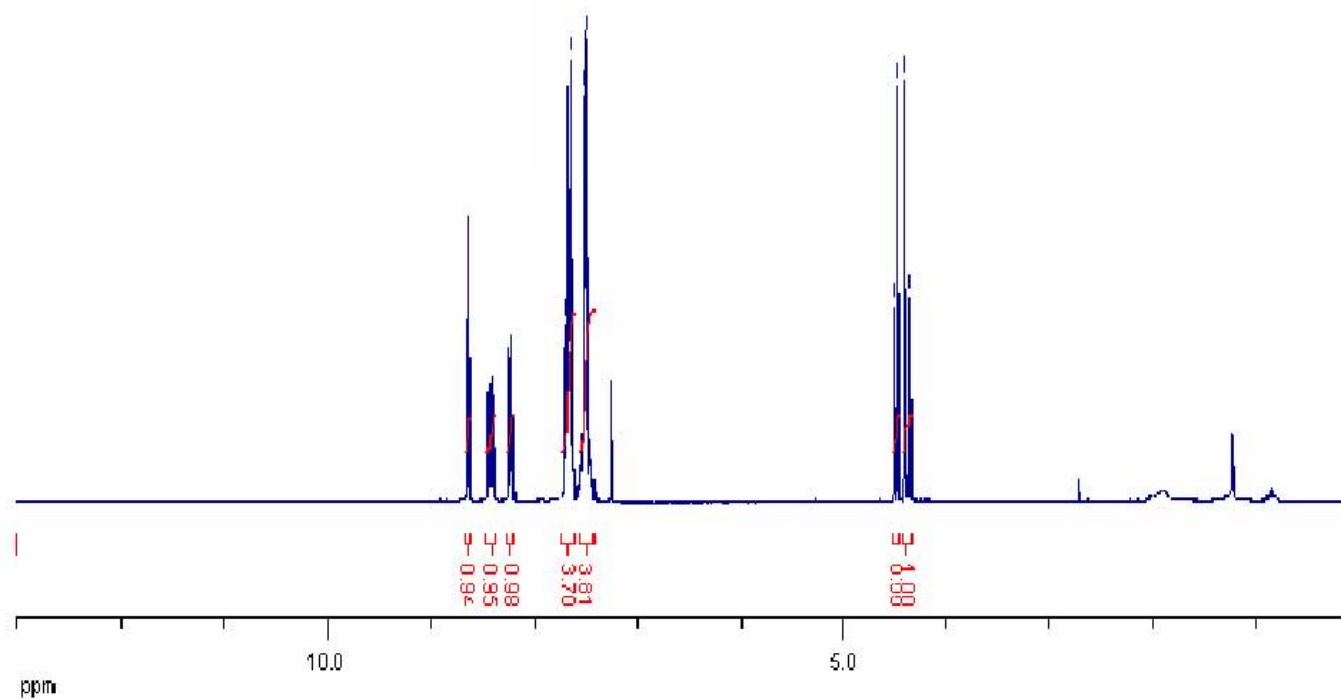
1-(3-nitrophenyl)-2-(phenylsulfinyl)ethanone **3i**



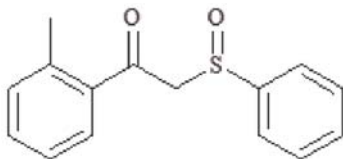
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME OCT13-2013
 EXPNO 421
 PROCNO 1
 F2 - Acquisition Parameters
 Date_20131013
 Time 10.45
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 512
 DS 4
 SWH 29761.904 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010548 sec
 RG 36
 DW 16.800 usec
 DE 6.00 usec
 TE 295.1 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 9.60 usec
 PL1 -2.00 dB
 SFO1 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -3.00 dB
 PL12 14.31 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127690 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



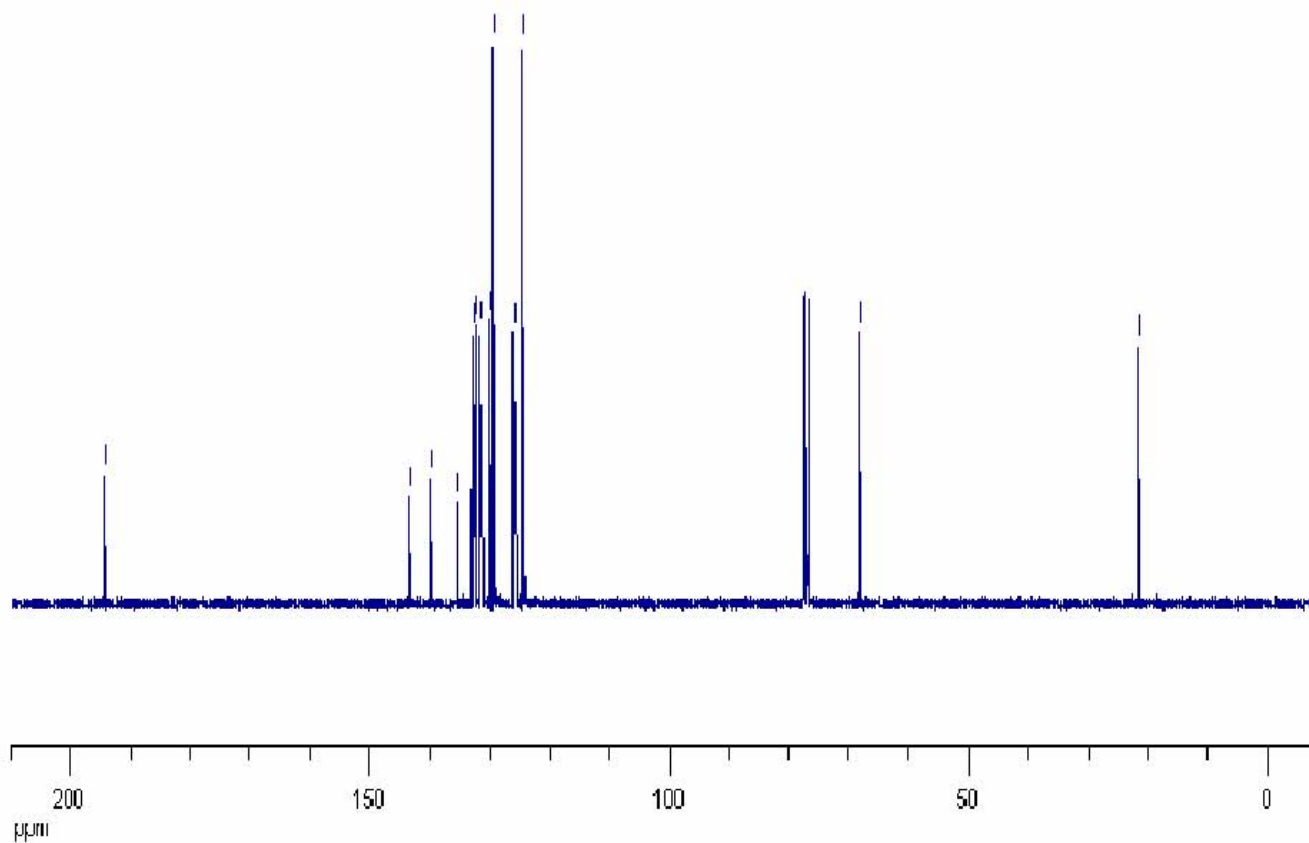
1-(3-nitrophenyl)-2-(phenylsulfinyl)ethanone **3i**



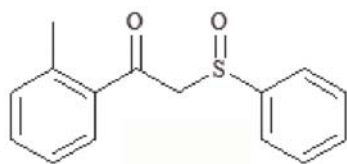
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME OCT10-2013
 EXPNO 420
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20131010
 Time 12.20
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 161
 DW 41.600 usec
 DE 6.00 usec
 TE 295.0 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300081 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



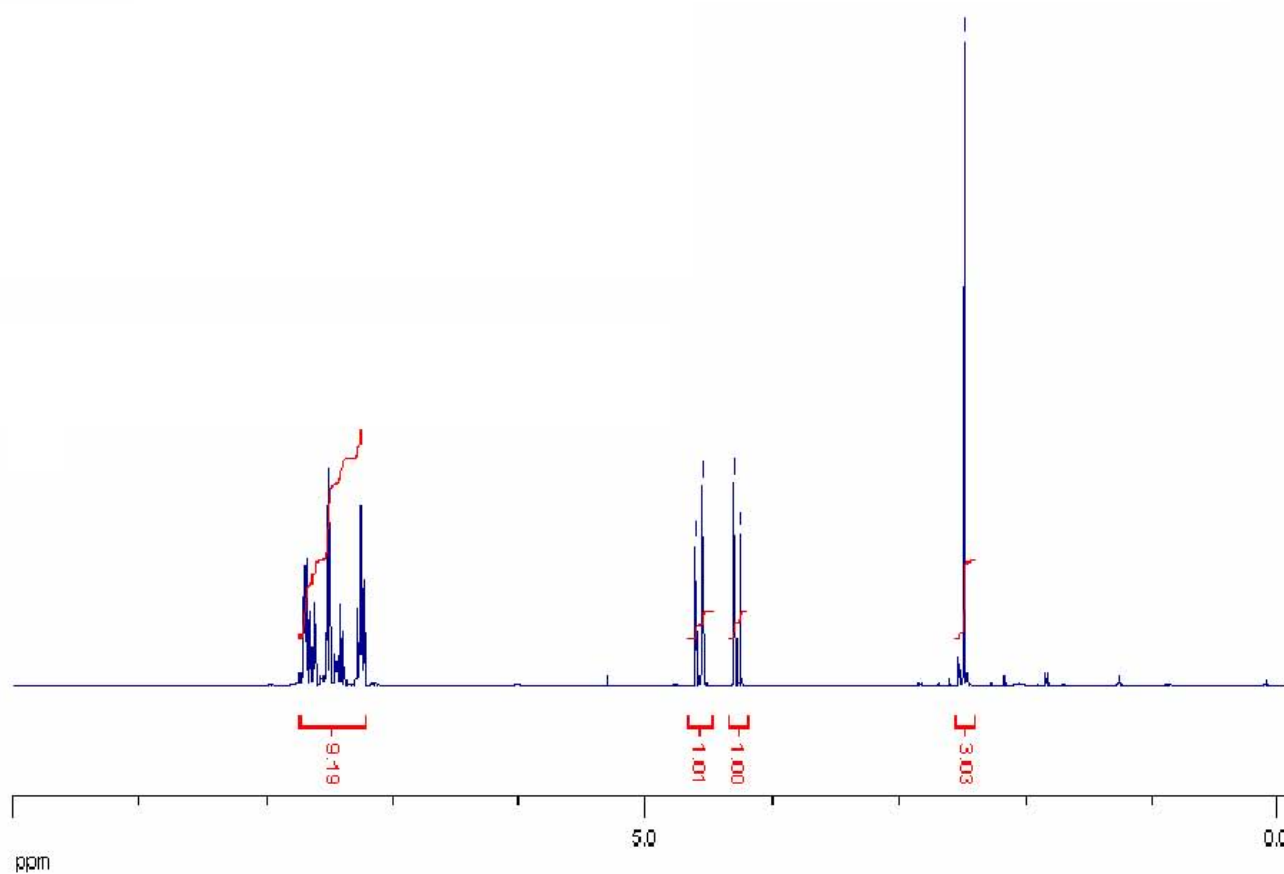
1-(2-methylphenyl)-2-(phenylsulfinyl)ethanone **3j**



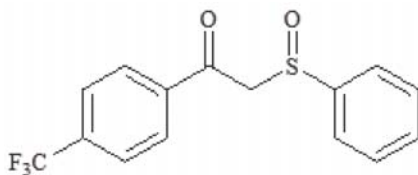
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME OCT17-2013
 EXPNO 421
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20131017
 Time 11.45
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 512
 DS 4
 SWH 29761.904 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010548 sec
 RG 36
 DW 16.800 usec
 DE 6.00 usec
 TE 295.1 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 9.60 usec
 PL1 -2.00 dB
 SFO1 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -3.00 dB
 PL12 14.31 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127690 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



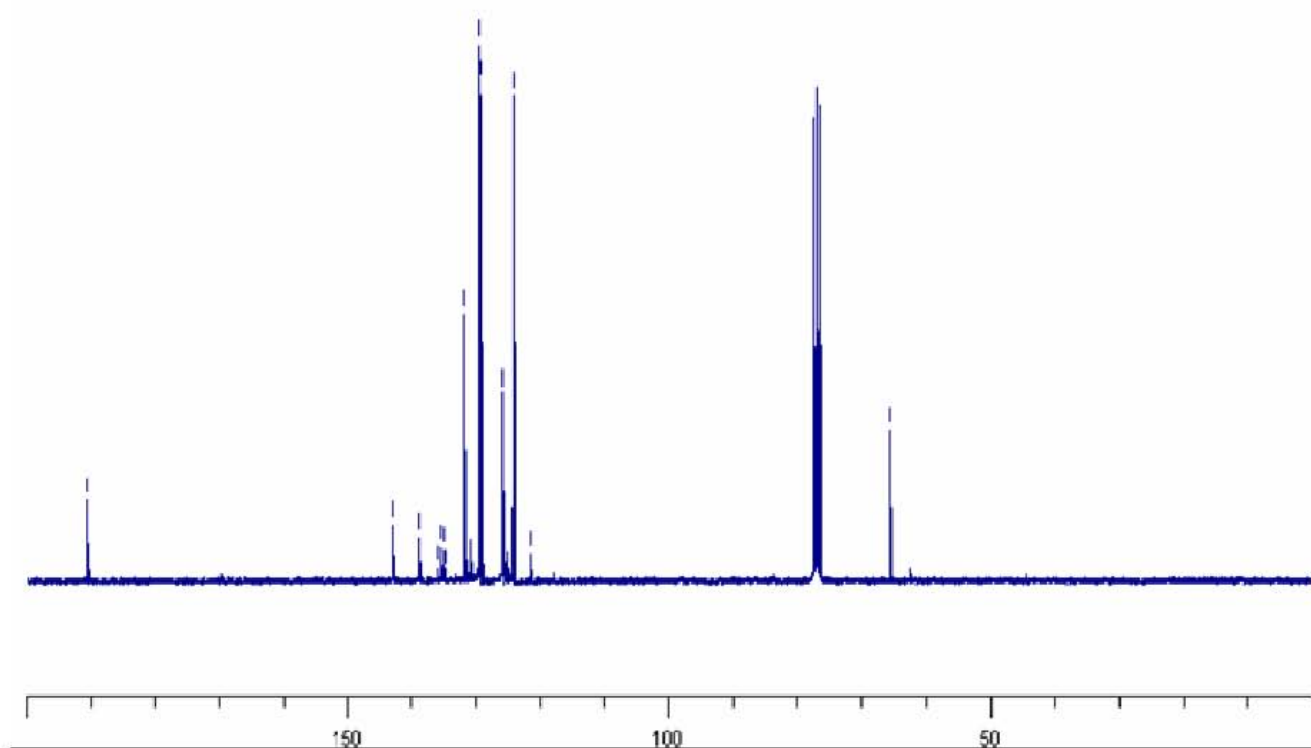
1-(2-methylphenyl)-2-(phenylsulfinyl)ethanone **3j**



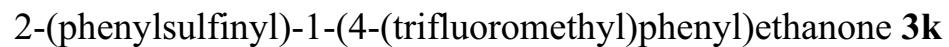
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME OCT16-2013
 EXPNO 420
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20131016
 Time 11.18
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 161
 DW 41.600 usec
 DE 6.00 usec
 TE 295.0 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300081 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



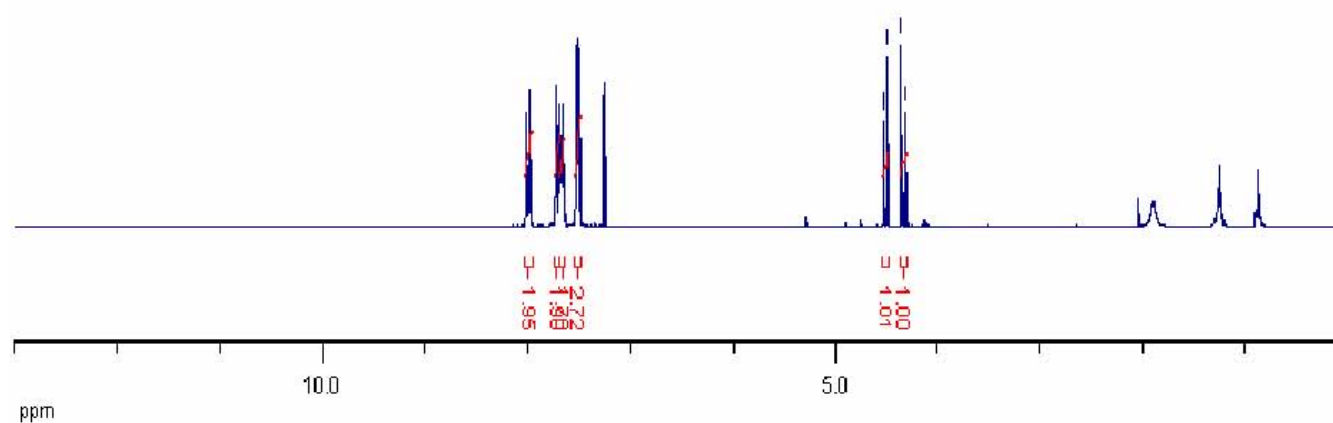
2-(phenylsulfinyl)-1-(4-(trifluoromethyl)phenyl)ethanone **3k**

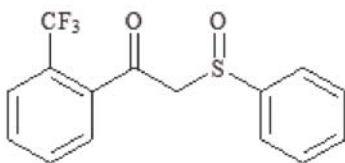


BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME NOV12-2013
 EXPNO 421
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20131112
 Time 10.05
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 512
 DS 4
 SWH 29761.904 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010548 sec
 RG 36
 DW 16.800 usec
 DE 6.00 usec
 TE 295.1 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 9.60 usec
 PL1 -2.00 dB
 SFO1 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -3.00 dB
 PL12 14.31 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127690 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

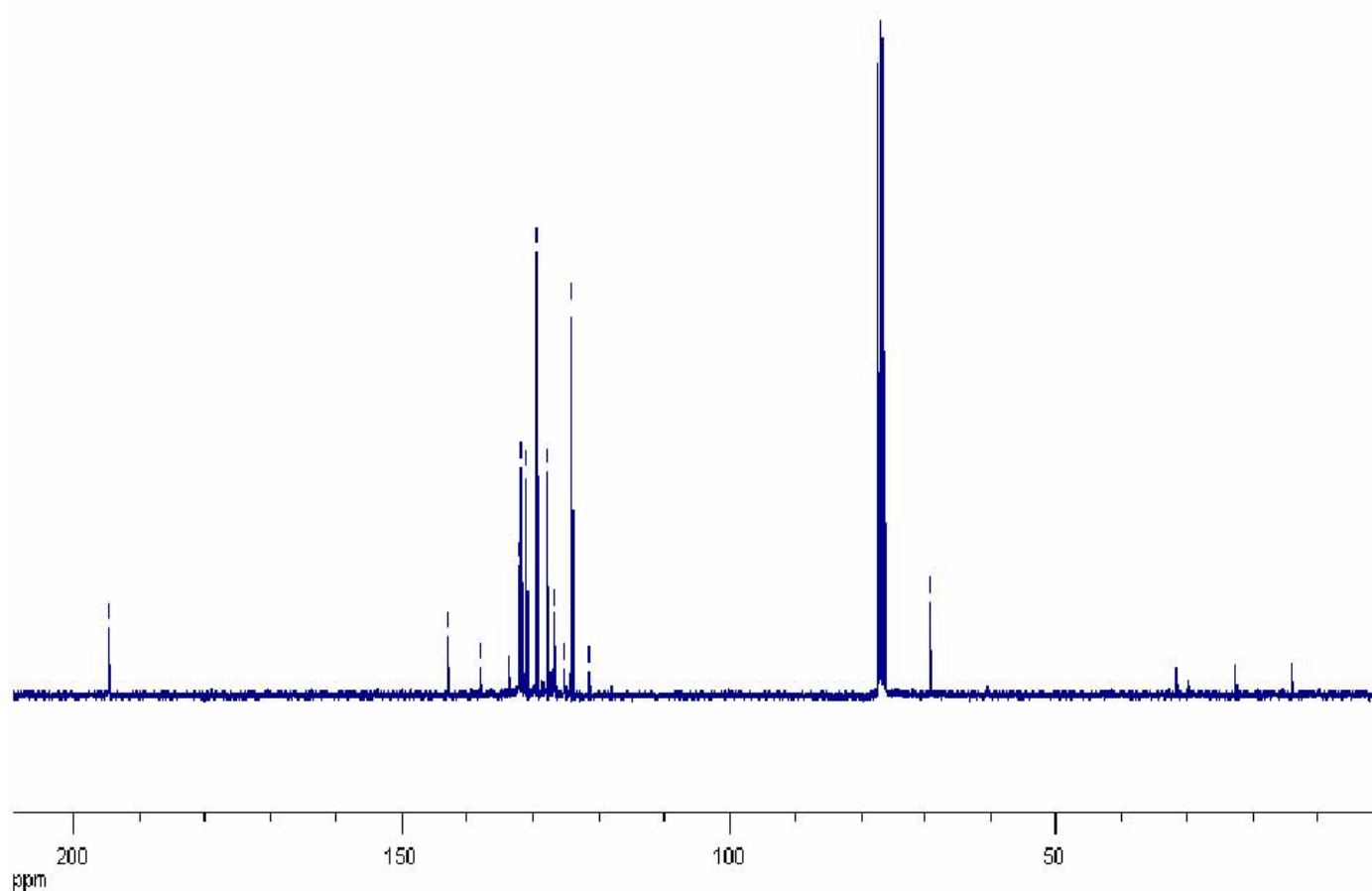


BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME NOV11-2013
 EXPNO 420
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20131111
 Time 11.18
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 161
 DW 41.600 usec
 DE 6.00 usec
 TE 295.0 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300081 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

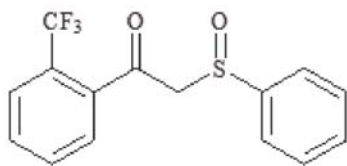




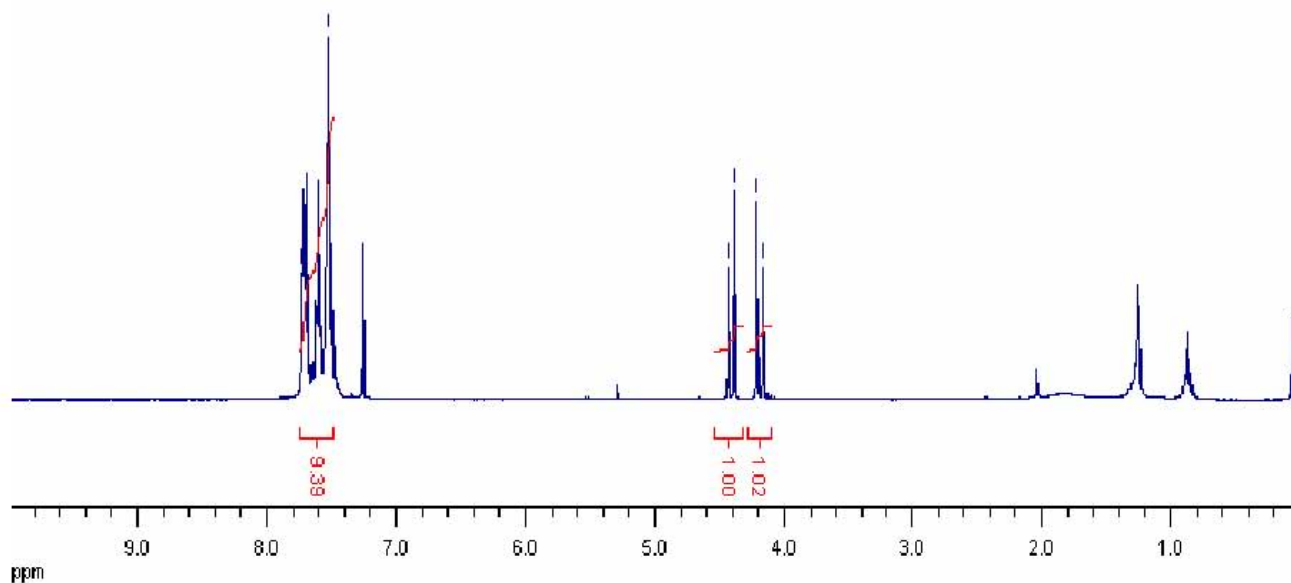
2-(phenylsulfinyl)-1-(2-(trifluoromethyl)phenyl)ethanone **31**



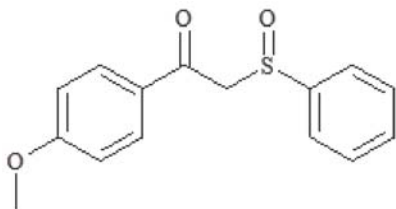
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME NOV20-2013
 EXPNO 421
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20131120
 Time 10.30
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 512
 DS 4
 SWH 29761.904 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010548 sec
 RG 36
 DW 16.800 usec
 DE 6.00 usec
 TE 295.1 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 9.60 usec
 PL1 -2.00 dB
 SFO1 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -3.00 dB
 PL12 14.31 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127690 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40



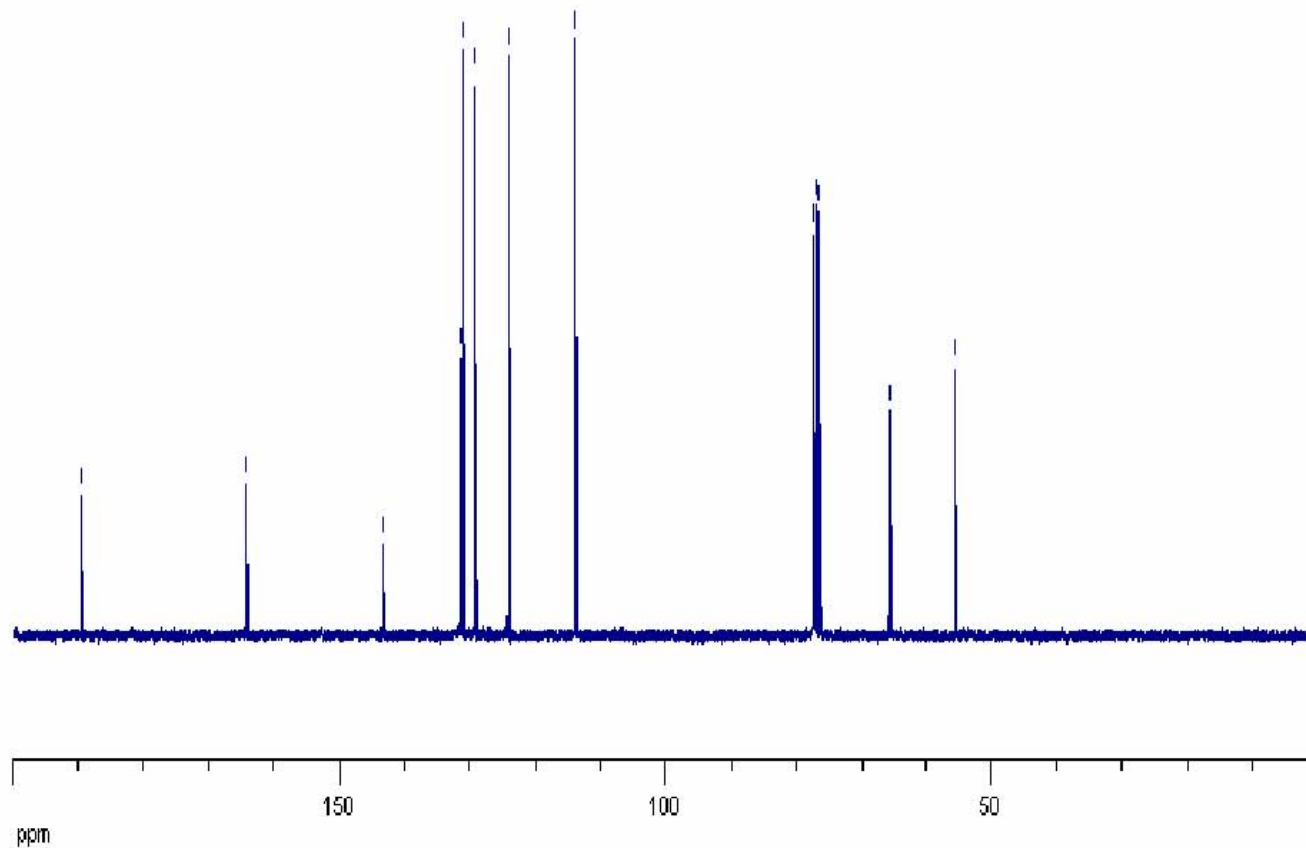
2-(phenylsulfinyl)-1-(2-(trifluoromethyl)phenyl)ethanone **31**



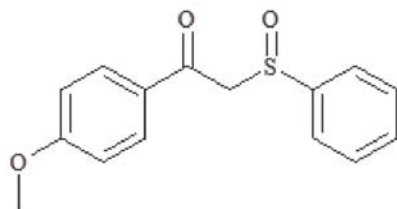
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME NOV17-2013
 EXPNO 420
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20131117
 Time 10.20
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 161
 DW 41.600 usec
 DE 6.00 usec
 TE 295.0 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300081 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



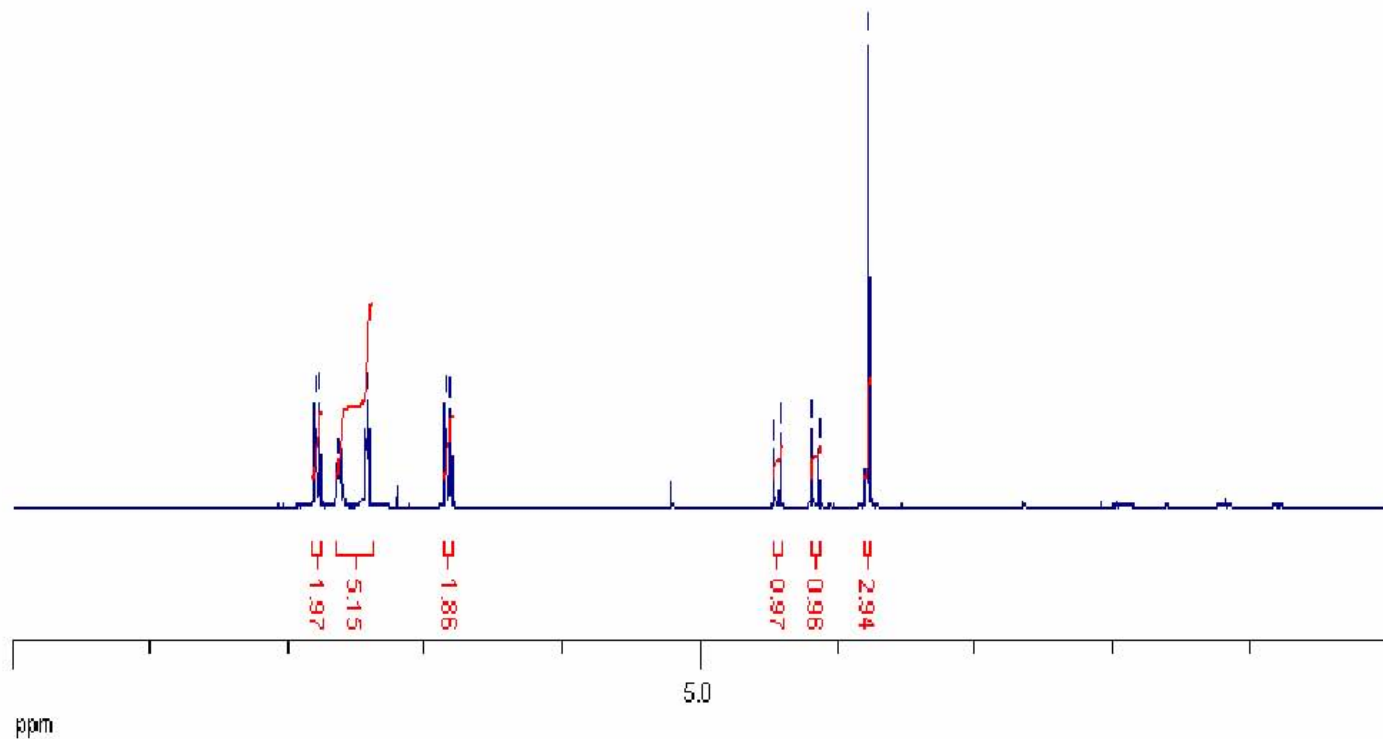
1-(4-methoxyphenyl)-2-(phenylsulfinyl)ethanone **3m**



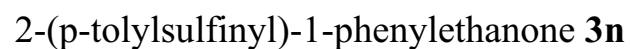
BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME NOV28-2013
 EXPNO 421
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20131128
 Time 11.30
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 512
 DS 4
 SWH 29761.904 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010548 sec
 RG 36
 DW 16.800 usec
 DE 6.00 usec
 TE 295.1 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 9.60 usec
 PL1 -2.00 dB
 SFO1 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -3.00 dB
 PL12 14.31 dB
 PL13 18.00 dB
 SFO2 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127690 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

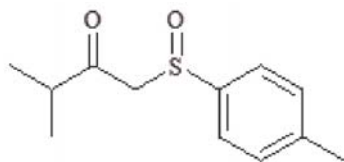


1-(4-methoxyphenyl)-2-(phenylsulfinyl)ethanone **3m**

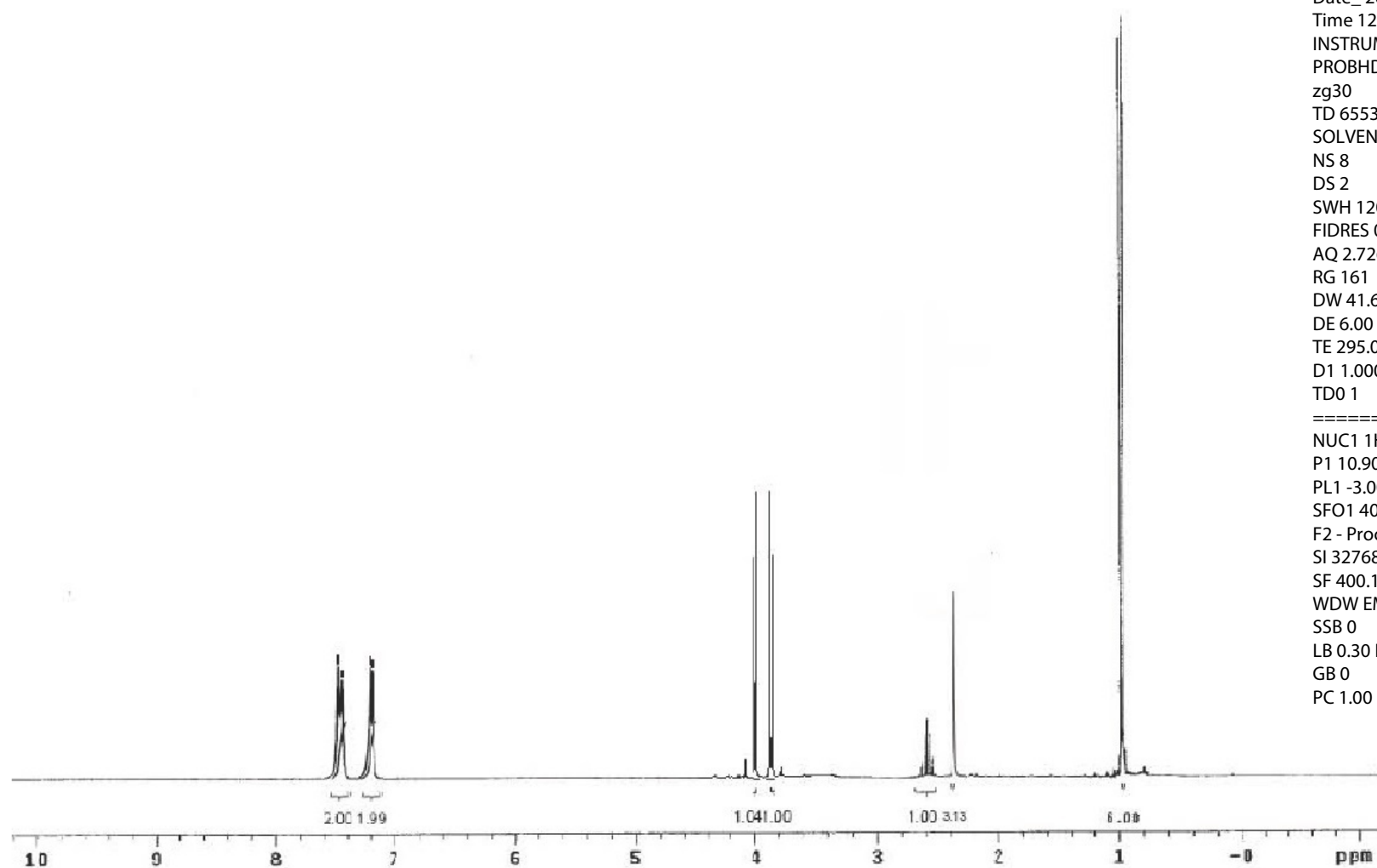


BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME NOV25-2013
 EXPNO 420
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20131125
 Time 12.22
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zg30
 TD 65536
 SOLVENT CDCl3
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 161
 DW 41.600 usec
 DE 6.00 usec
 TE 295.0 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300081 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00





1-(p-tolylsulfinyl)-3-methylbutan-2-one **3o**



BRUKER
 AVANCE II 400 NMR
 Spectrometer
 SAIF
 Panjab University
 Chandigarh
 Current Data Parameters
 NAME JAN10-2014
 EXPNO 420
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20140110
 Time 12.40
 INSTRUM spect
 PROBHD 5 mm PABBO BBPULPROG
 zg30
 TD 65536
 SOLVENT CDCl₃
 NS 8
 DS 2
 SWH 12019.230 Hz
 FIDRES 0.183399 Hz
 AQ 2.7263477 sec
 RG 161
 DW 41.600 usec
 DE 6.00 usec
 TE 295.0 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 10.90 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300081 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00