

Supplementary Material

Synthesis of novel pyrazolo[3,4-*b*]pyridine derivatives in aqueous medium

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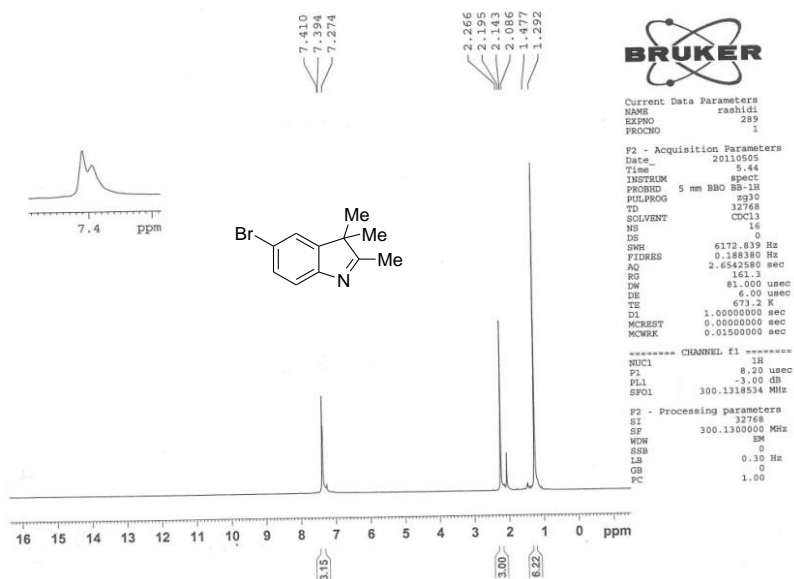
^b*Saba College of Higher Education, Urmia 57166-53847, Iran*

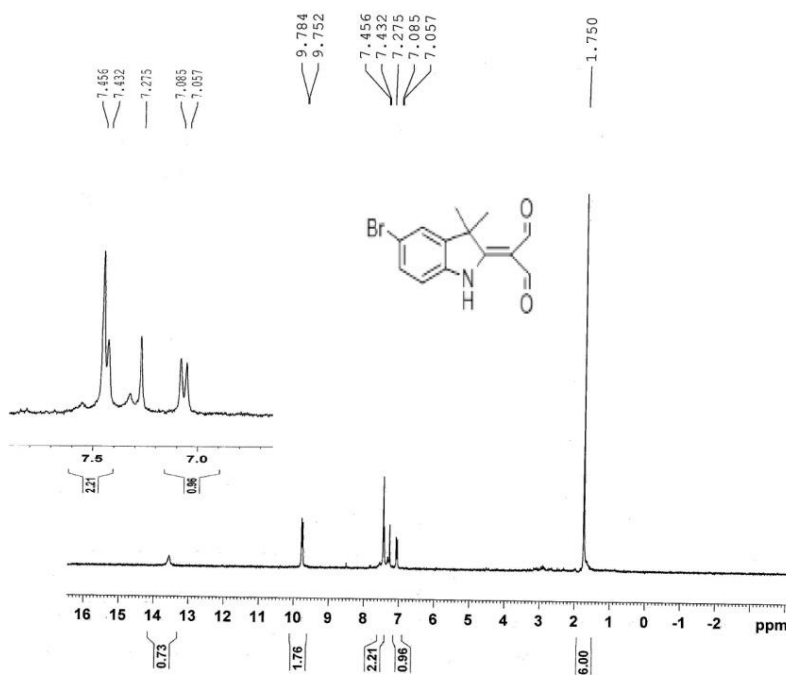
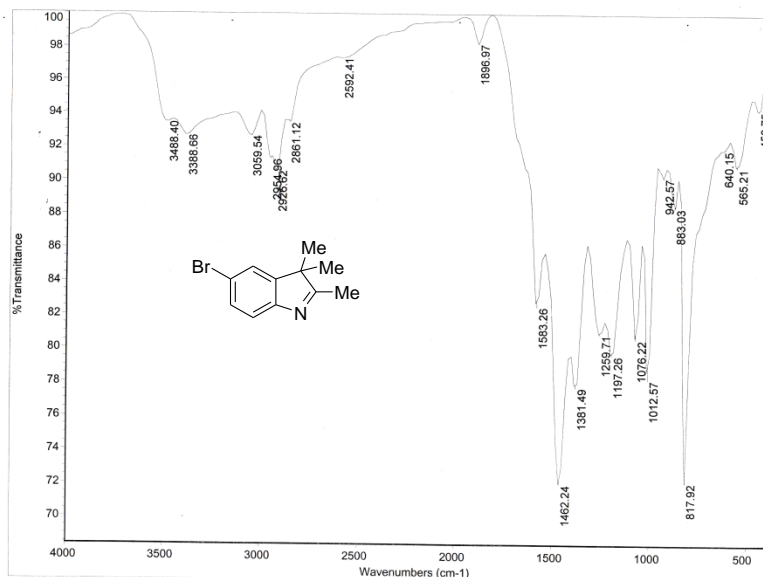
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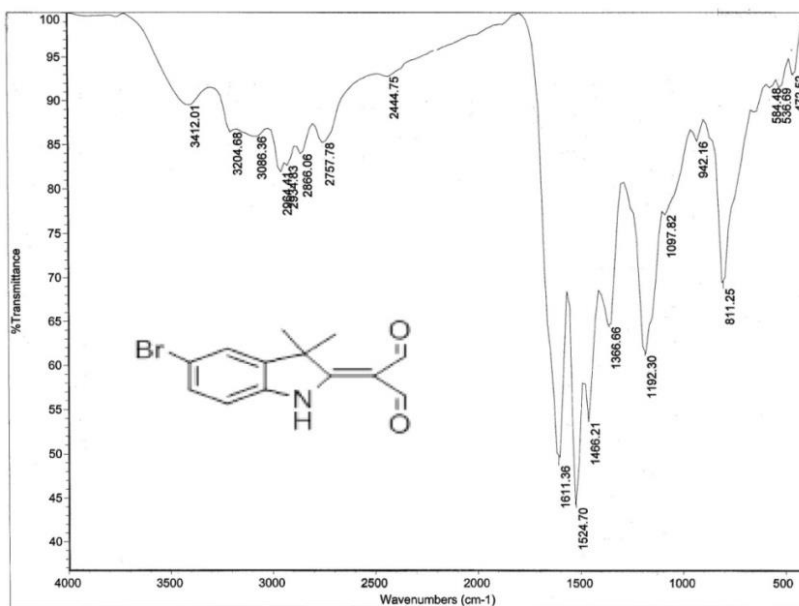
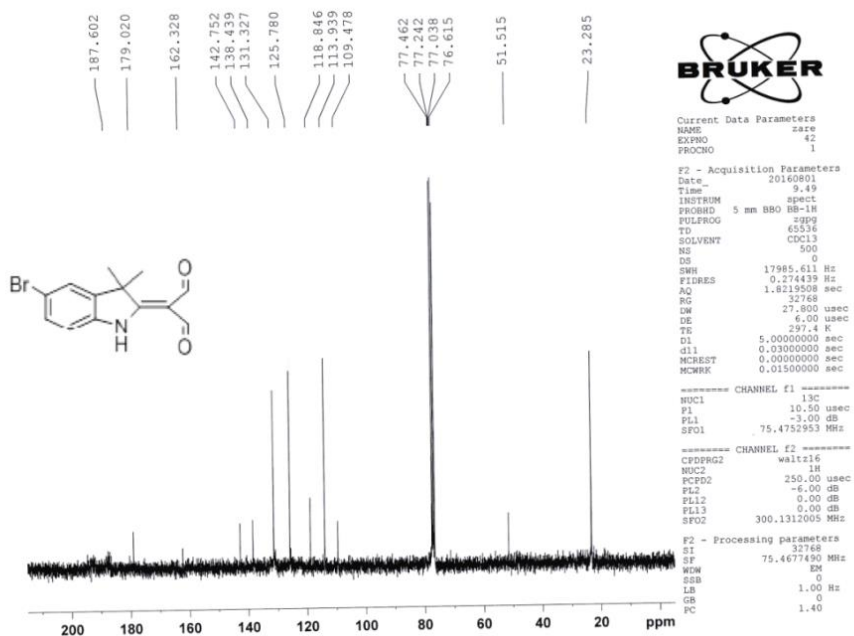


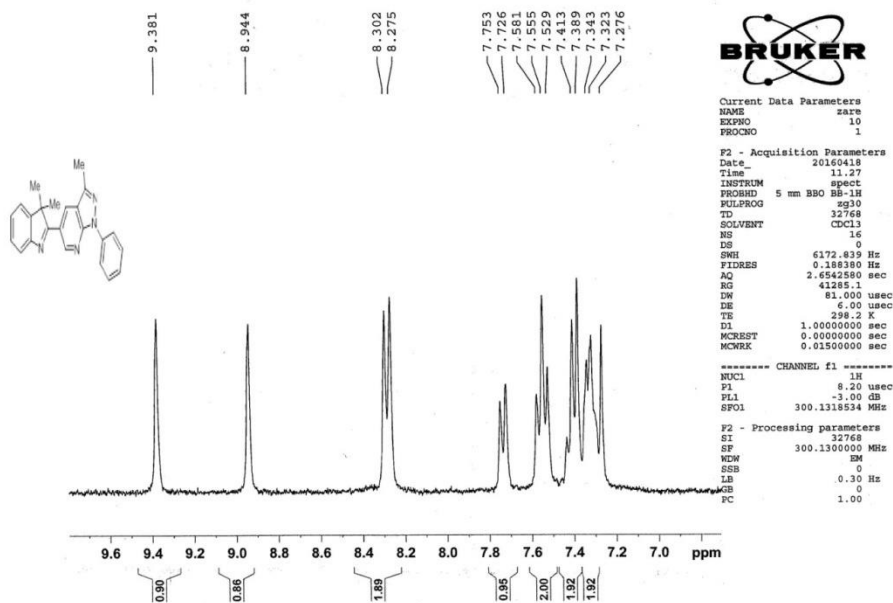
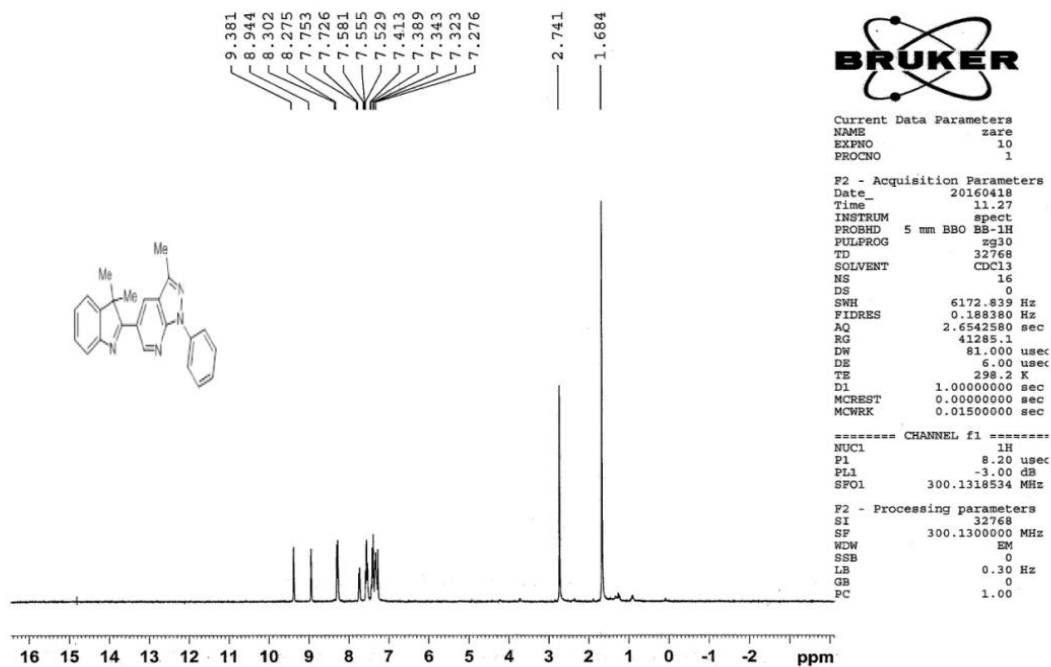
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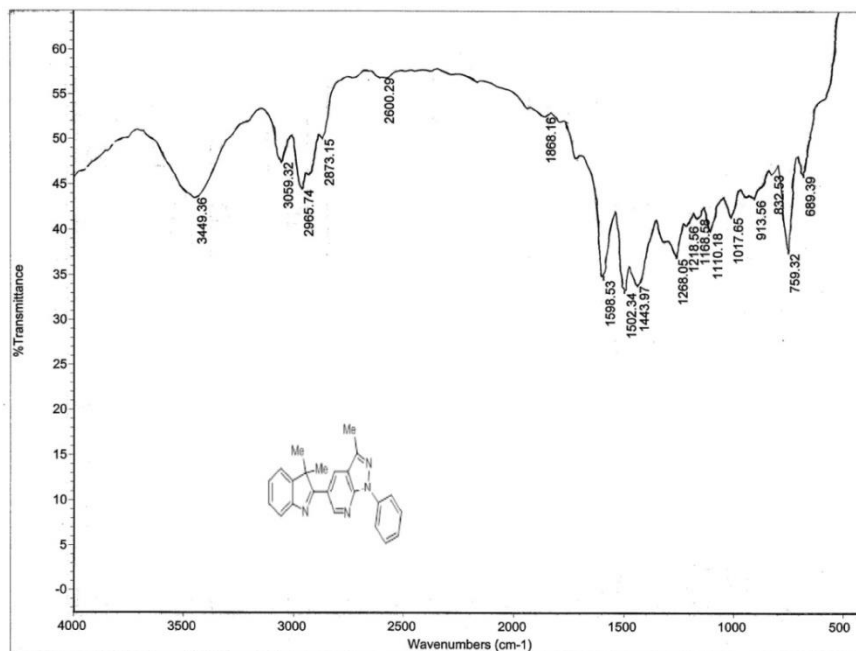
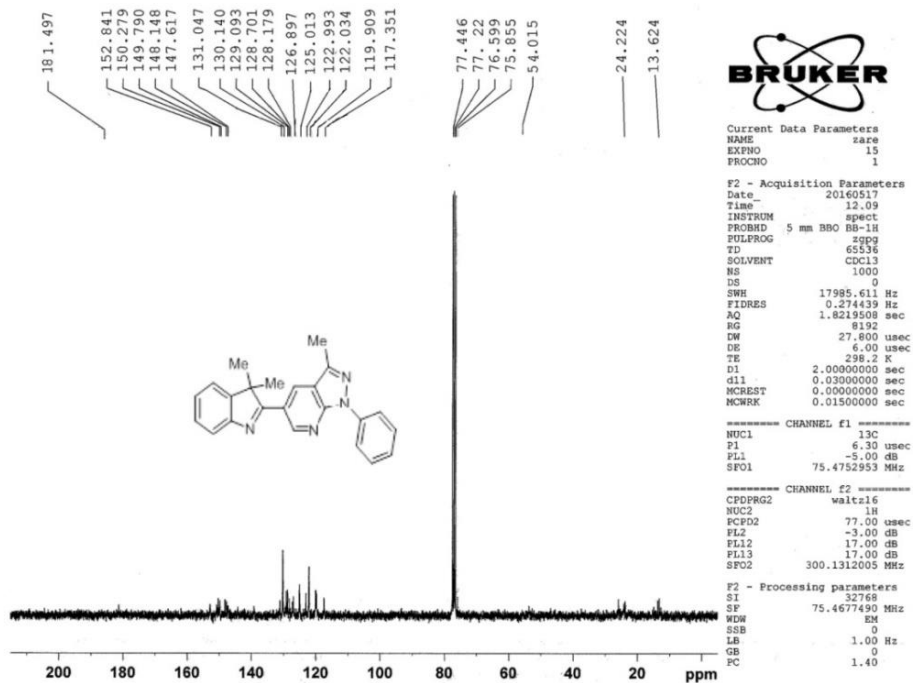
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 FIDRES 0.168380 Hz
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 TE 298.2 K
 D1 1.00000000 sec
 MCREST 0.00000000 sec
 MCWRK 0.01500000 sec

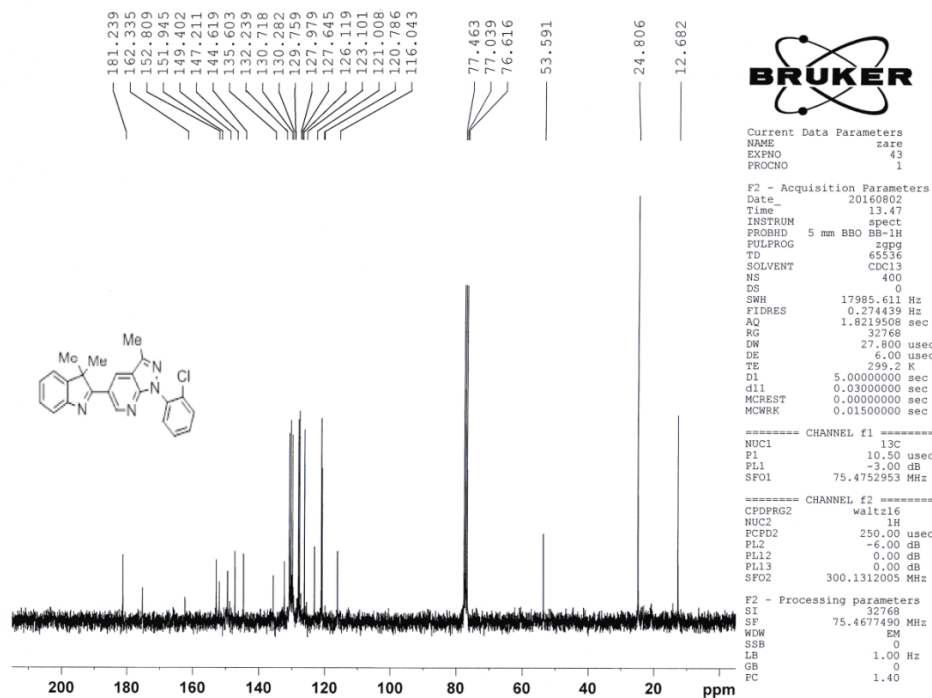
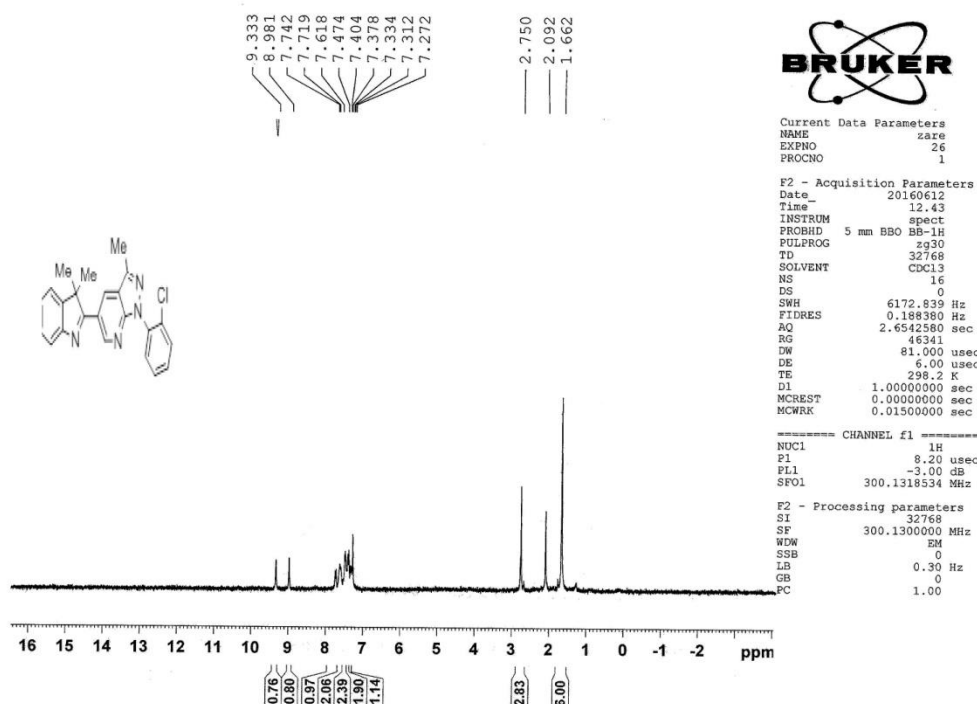
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 SFO1 300.1318534 MHz

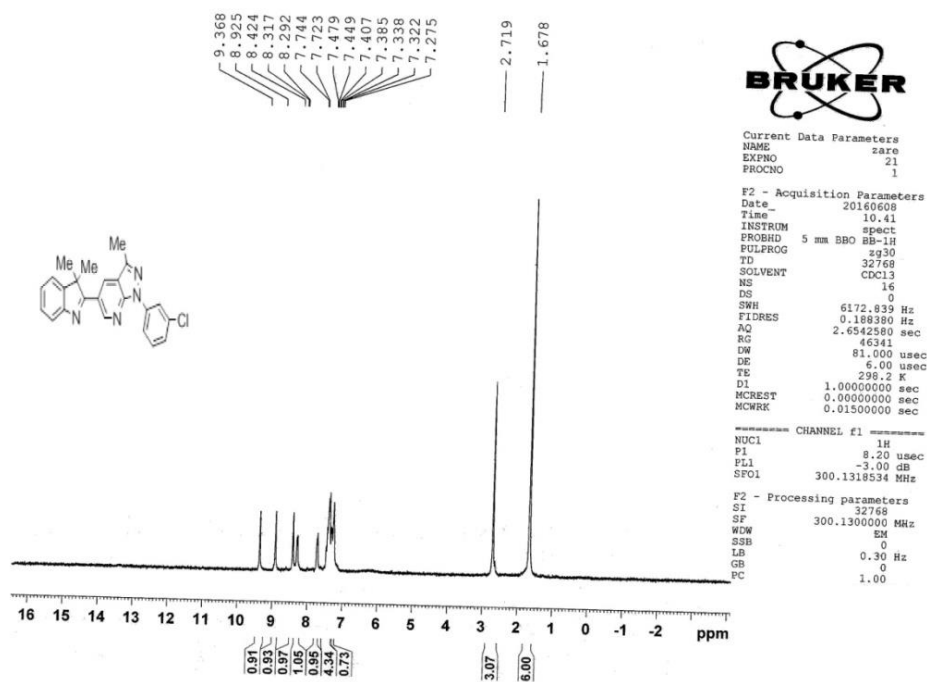
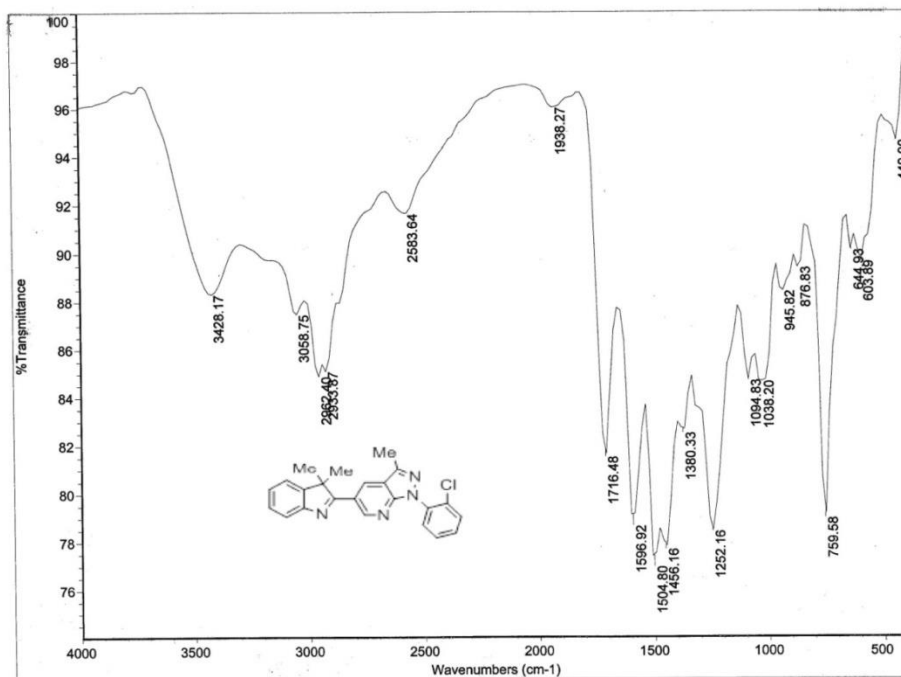
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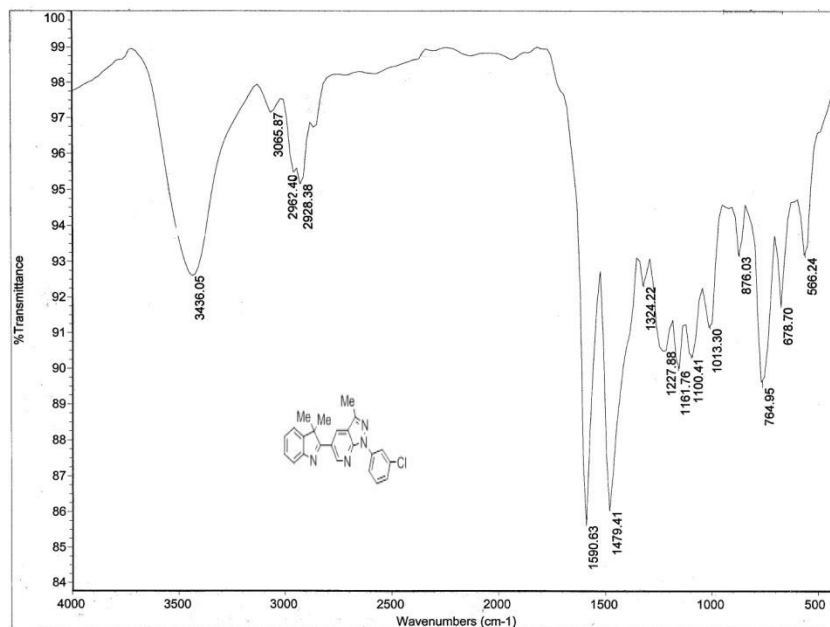
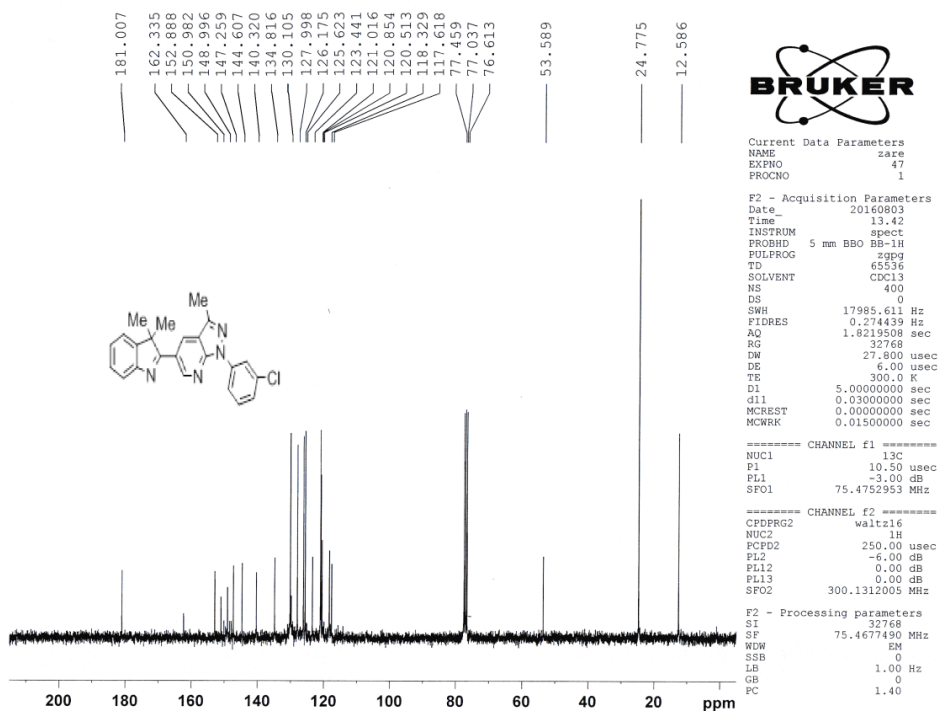


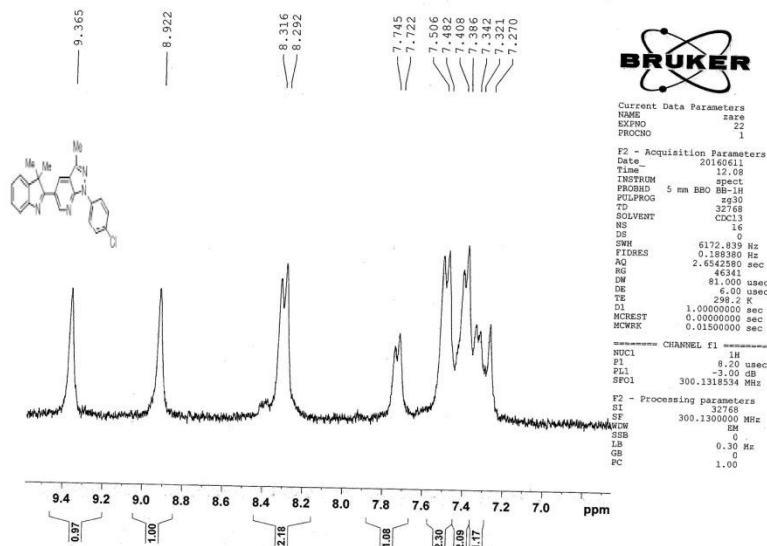
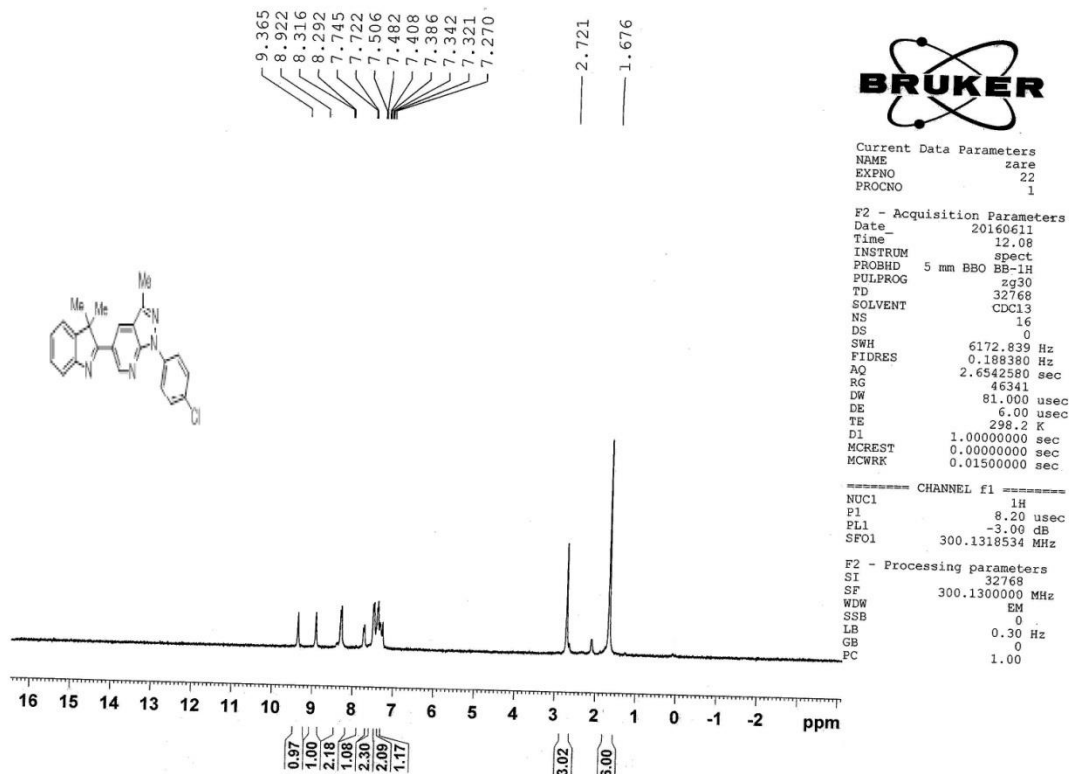


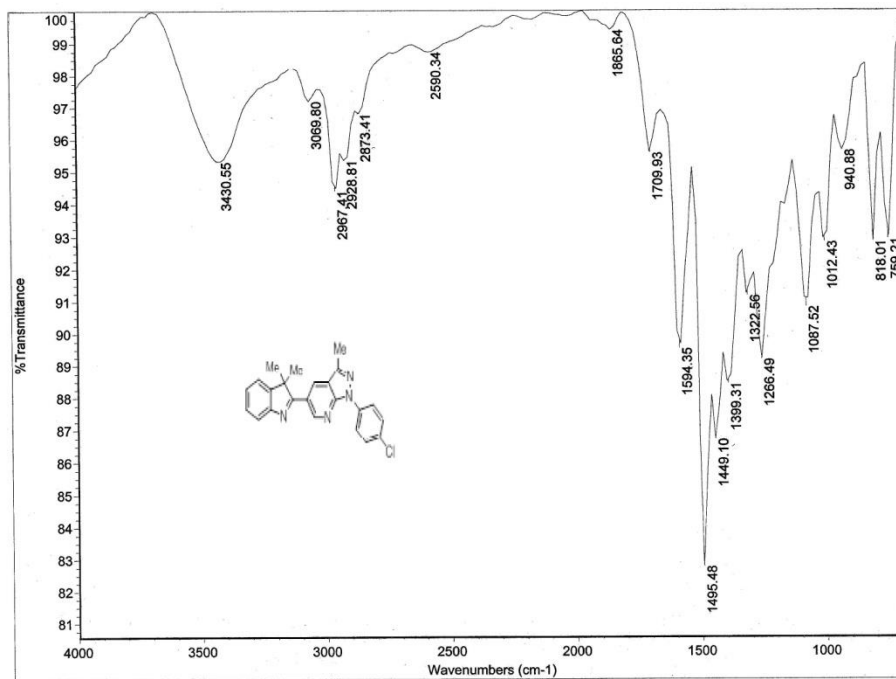
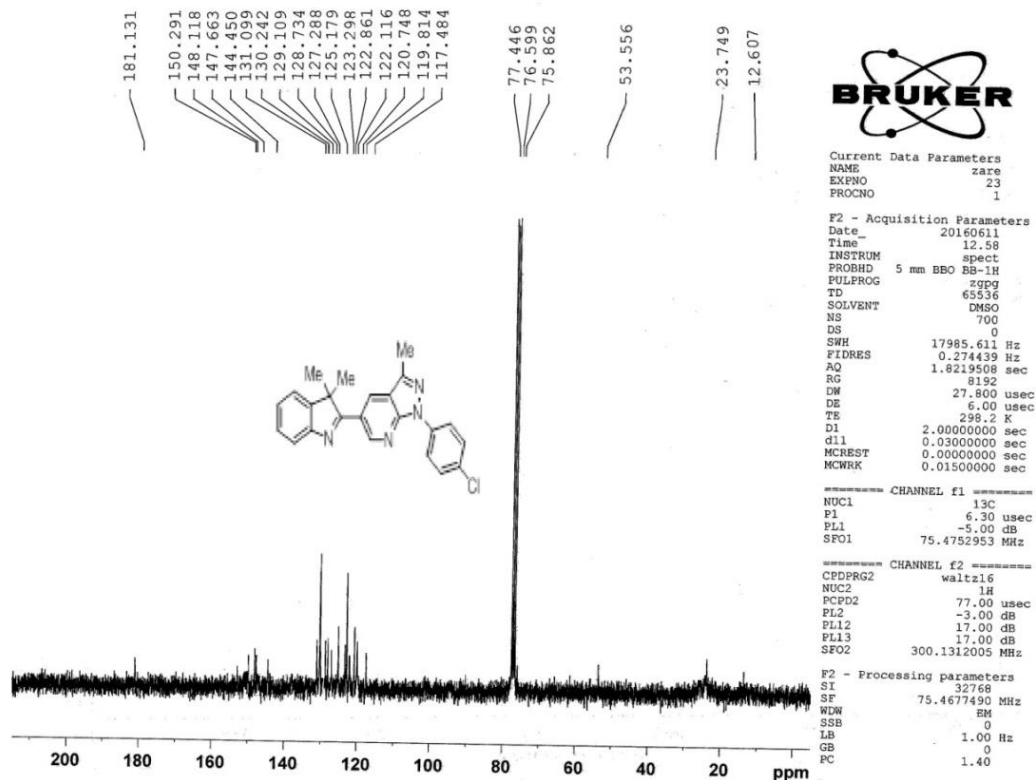


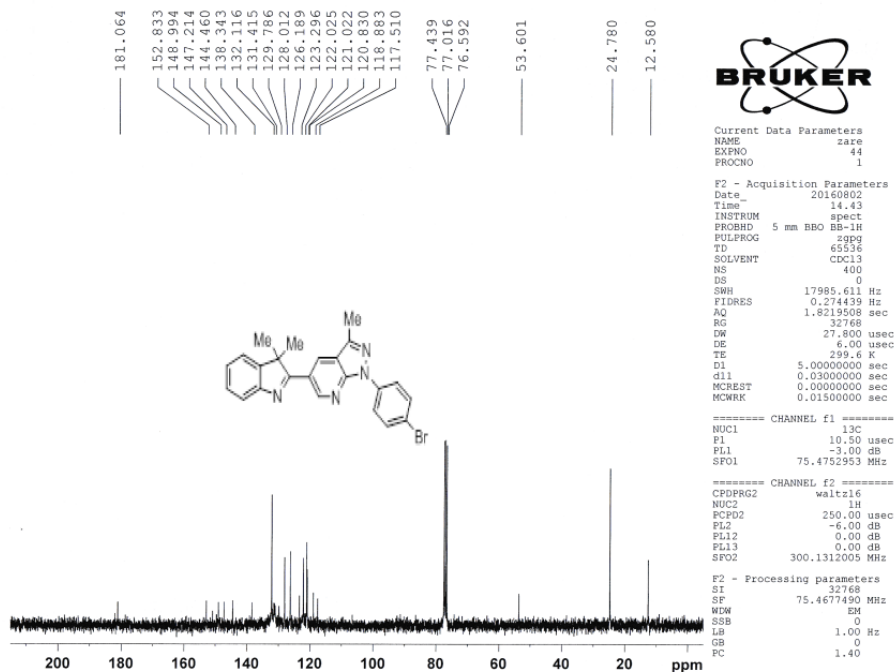
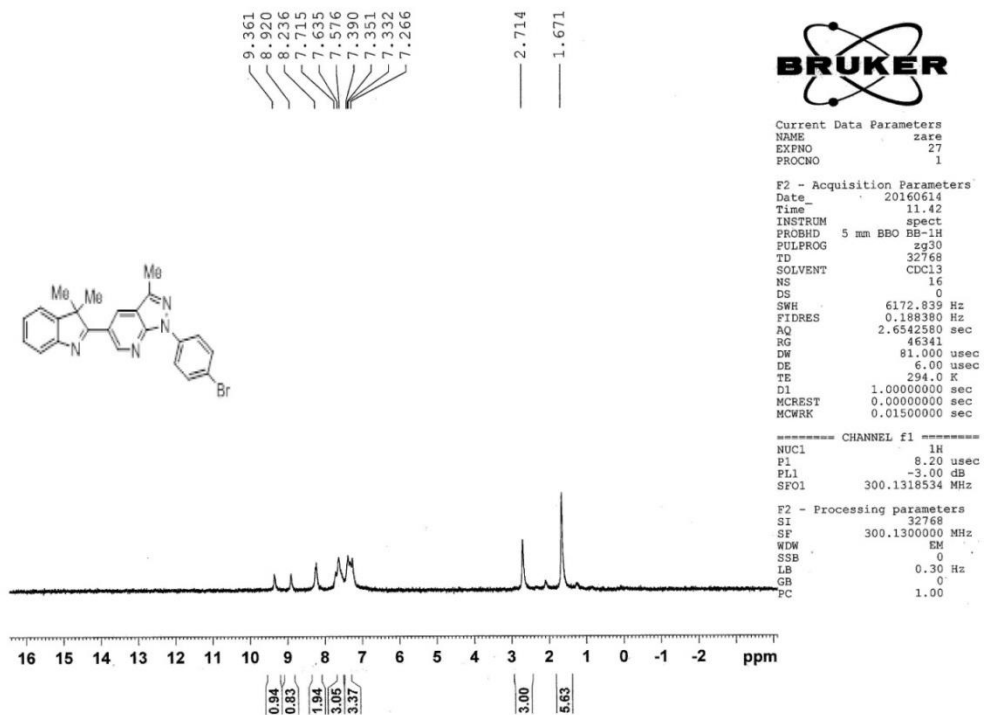


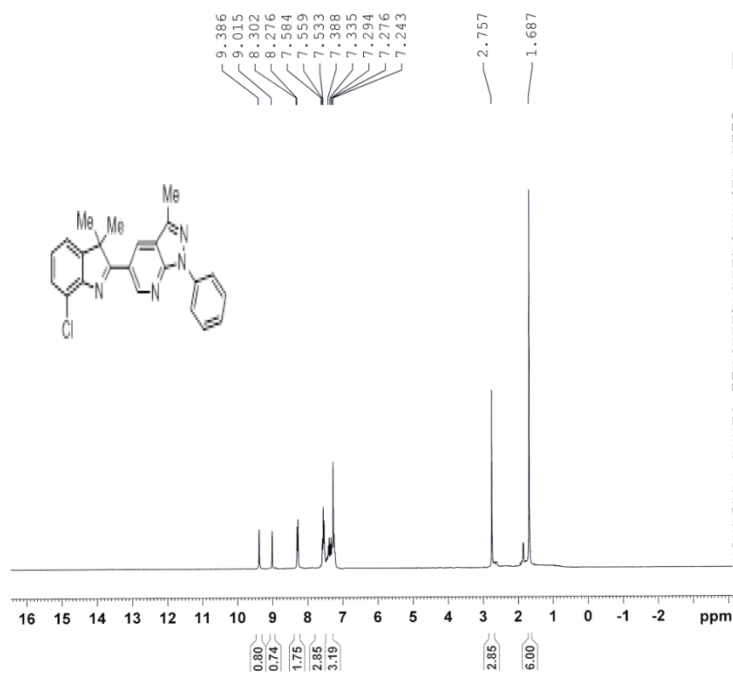
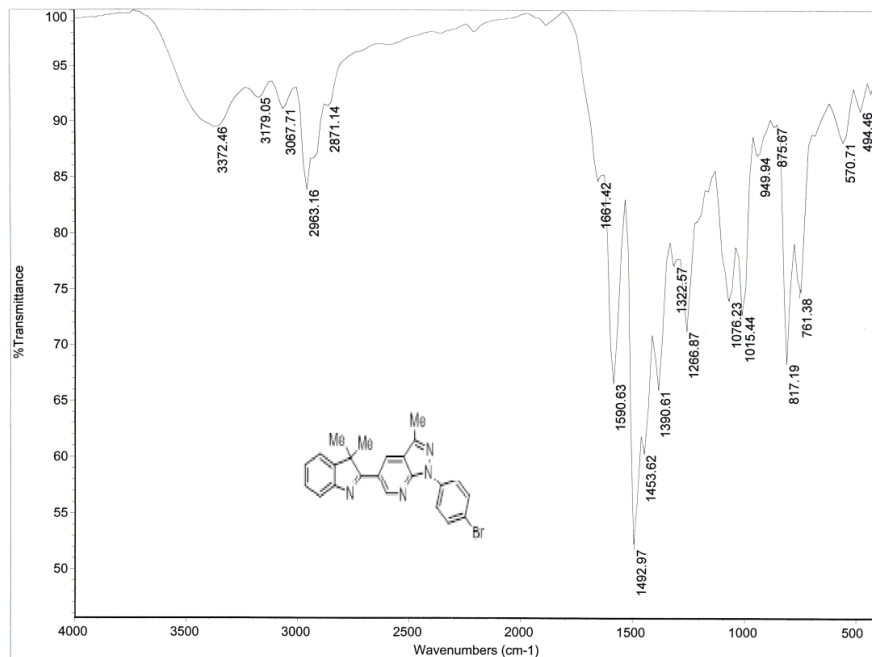












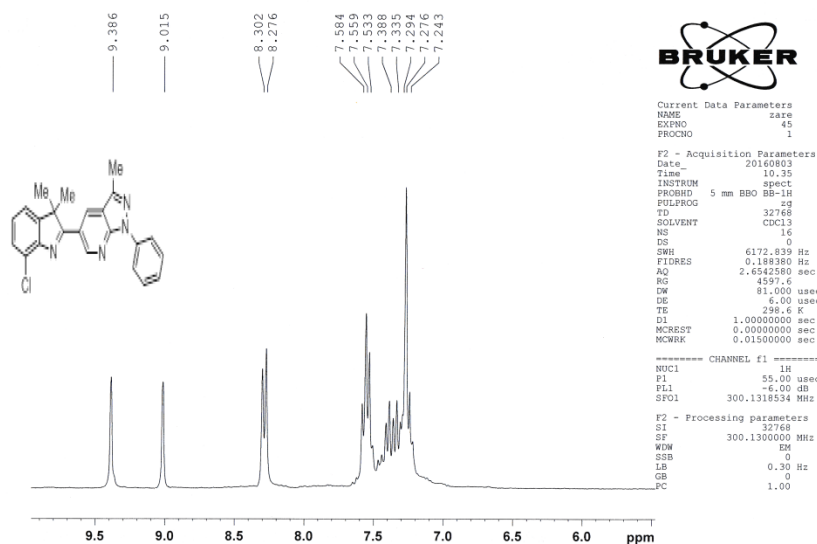
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PULPROG   zg
TD         32768
SOLVENT   CDCl3
NS         16
DS         0
SWH        6172.839 Hz
FIDRES     0.188380 Hz
AQ         2.6542380 sec
RG         4597.6
DW         81.000 usec
DE         6.00 usec
TE         298.6 K
D1         1.00000000 sec
MCREST    0.00000000 sec
MCWRK     0.01500000 sec

===== CHANNEL f1 =====
NUC1       1H
P1         55.00 usec
PL1        -6.00 dB
SFO1       300.1318534 MHz

F2 - Processing parameters
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SF         300.1300000 MHz
WDW        EM
SSB        0
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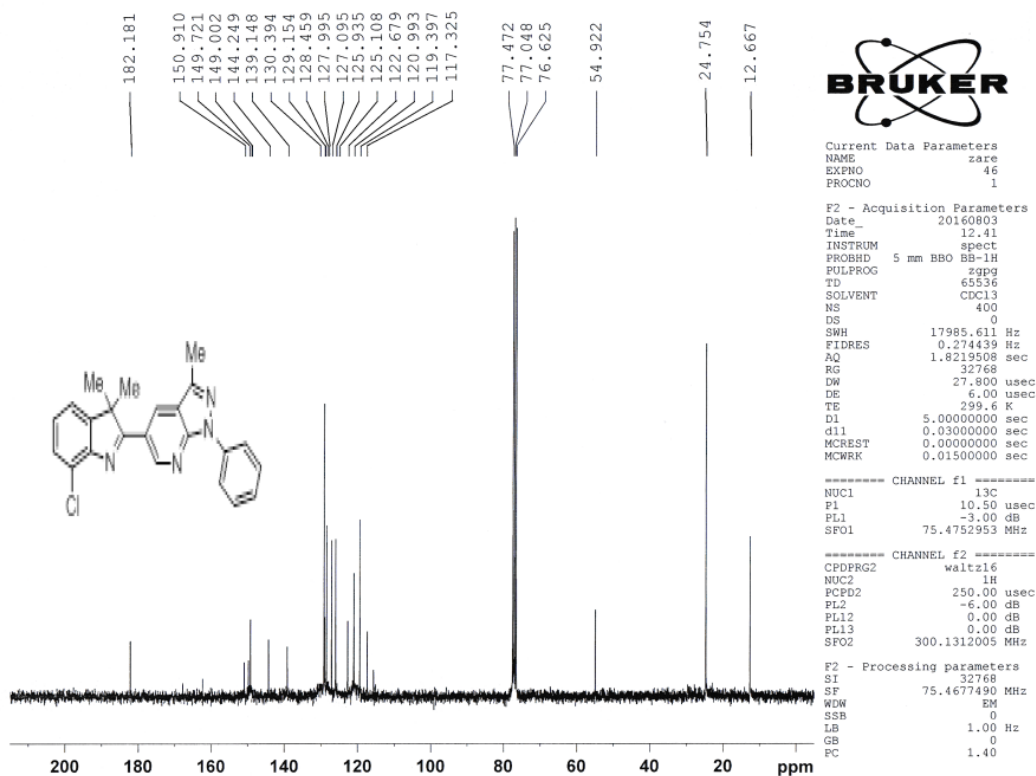
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Current Data Parameters
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EXPNO    45
PROCNO   1

F2 - Acquisition Parameters
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PULPROG  zg
TD        32768
SOLVENT  CDCl3
NS        16
DS        0
SWH      6172.839 Hz
FIDRES   0.188380 Hz
AQ       2.6542580 sec
RG       4597.6
DW       81.000 usec
DE       6.00 usec
TE       298.6 K
D1       1.00000000 sec
MCREST   0.00000000 sec
MCWRK    0.01500000 sec

----- CHANNEL f1 -----
NUC1     1H
P1       55.00 usec
PL1     -6.00 dB
SF01    300.1318534 MHz

F2 - Processing parameters
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WDW      EM
SSB      0
LB       0.30 Hz
GB       0
PC       1.00
    
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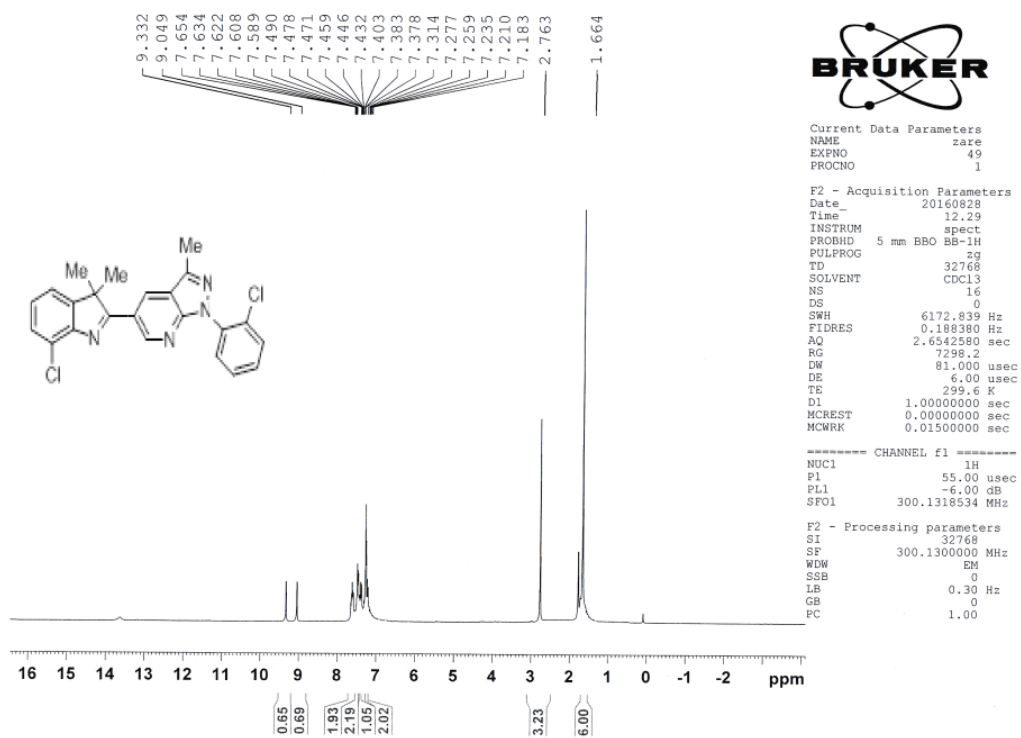
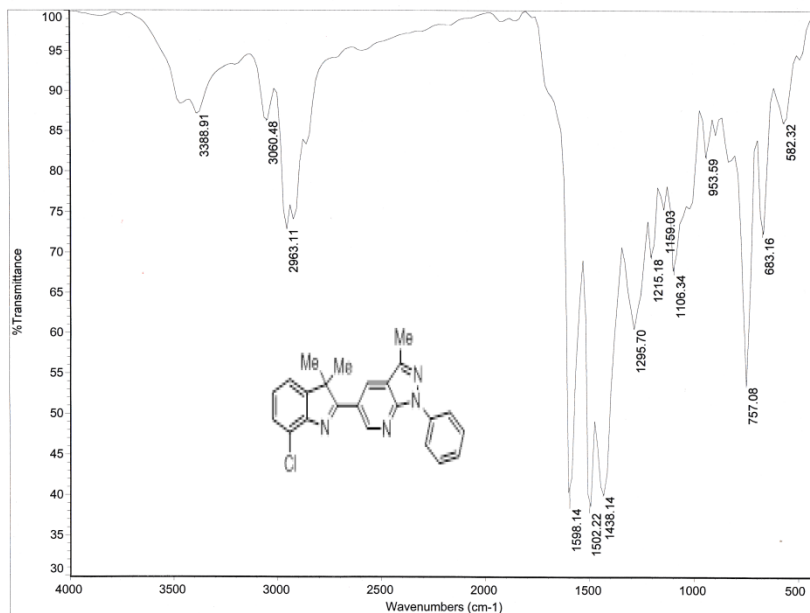
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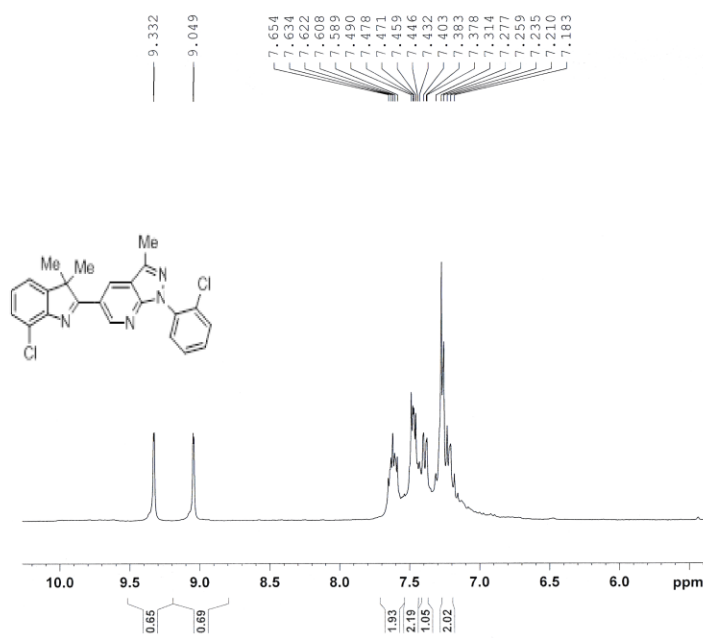
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PULPROG  zgpg
TD        65536
SOLVENT  CDCl3
NS        400
DS        0
SWH      17985.611 Hz
FIDRES   0.274439 Hz
AQ       1.8219508 sec
RG       32768
DW       27.800 usec
DE       6.00 usec
TE       299.6 K
D1       5.00000000 sec
d11      0.03000000 sec
MCREST   0.00000000 sec
MCWRK    0.01500000 sec

----- CHANNEL f1 -----
NUC1     13C
P1       10.50 usec
PL1     -3.00 dB
SF01    75.4752953 MHz

----- CHANNEL f2 -----
CPDPRG2  waltz16
NUC2     1H
PCPD2    250.00 usec
PL2     -6.00 dB
PL12    0.00 dB
PL13    0.00 dB
SF02    300.1312005 MHz

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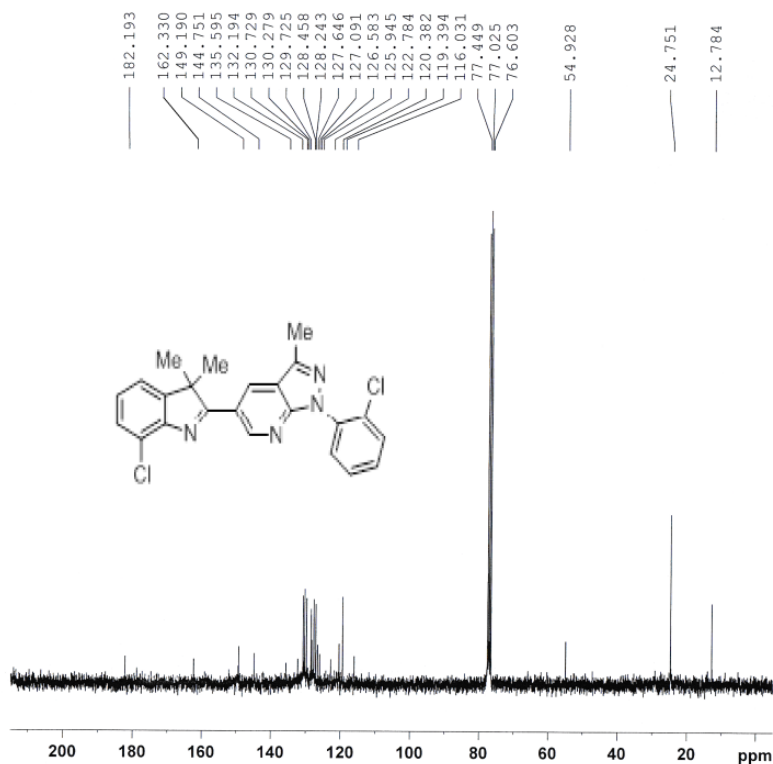


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 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 16
 DS 0
 SWH 6172.839 Hz
 FIDRES 0.188360 Hz
 AQ 2.6342580 sec
 RG 7298.2
 DW 81.000 usec
 DE 6.00 usec
 TE 299.6 K
 D1 1.00000000 sec
 MCREST 0.01500000 sec
 MCWRK 0.01500000 sec

----- CHANNEL f1 -----
 NUC1 1H
 P1 55.00 usec
 PL1 -6.00 dB
 SFO1 300.1318534 MHz

F2 - Processing parameters
 SI 32768
 SF 300.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



Current Data Parameters
 NAME zare
 EXPNO 53
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20160829
 Time 10.23
 INSTRUM spect
 PROBHD 5 mm BBO BB-1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 400
 DS 0
 SWH 17985.611 Hz
 FIDRES 0.274439 Hz
 AQ 1.8219508 sec
 RG 32768
 DW 27.800 usec
 DE 6.00 usec
 TE 299.2 K
 D1 5.00000000 sec
 d11 0.03000000 sec
 MCREST 0.00000000 sec
 MCWRK 0.01500000 sec

----- CHANNEL f1 -----
 NUC1 13C
 P1 10.50 usec
 PL1 -3.00 dB
 SFO1 75.4752953 MHz

----- CHANNEL f2 -----
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 250.00 usec
 PL2 -6.00 dB
 PL12 0.00 dB
 PL13 0.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4677490 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

