

Total Synthesis of Proposed Structure of Azepinobisindole Alkaloid Rhodozepinone

Supporting Information

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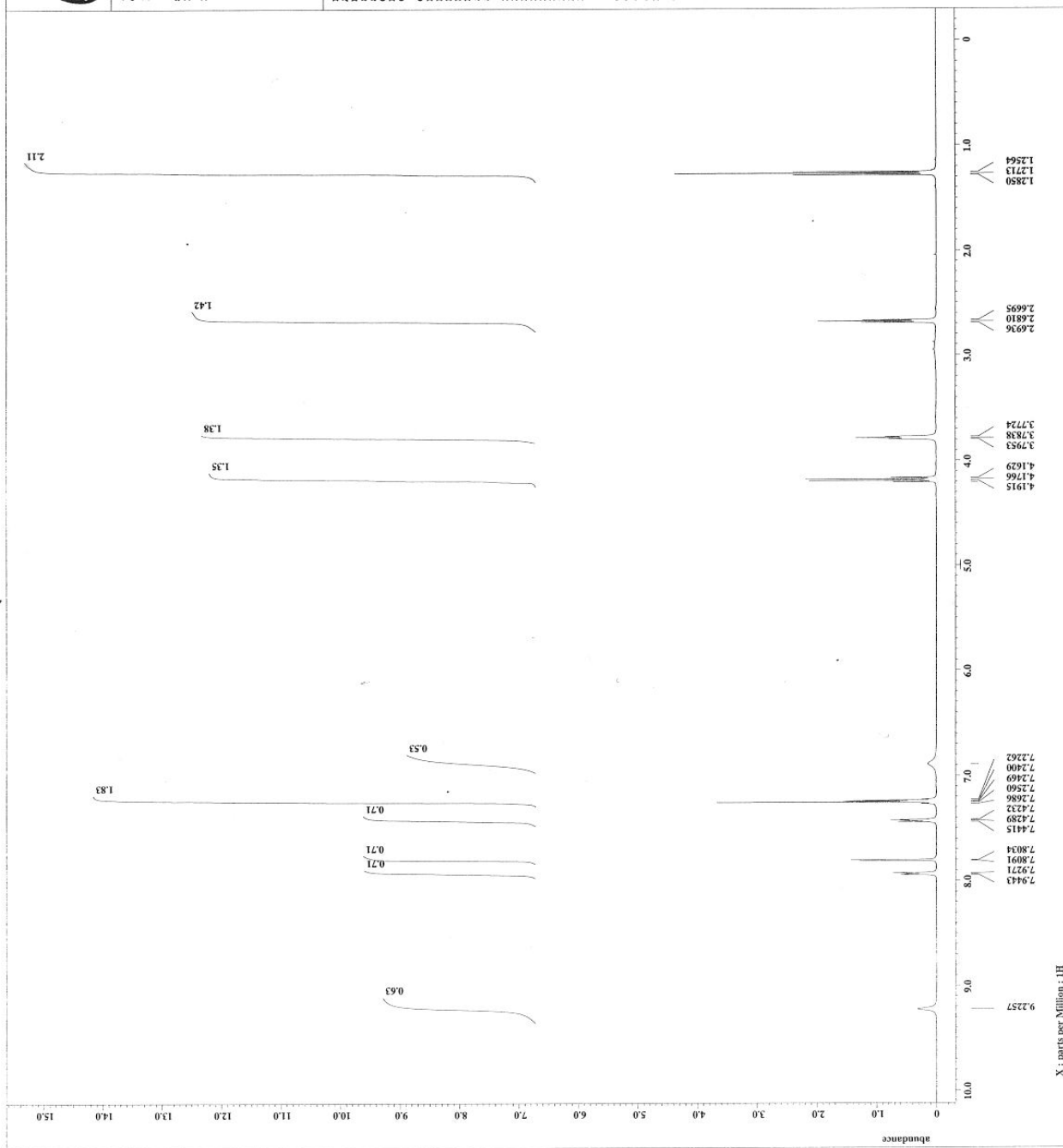
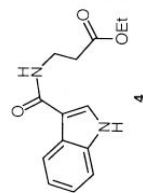
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1. Copies of ^1H , ^{13}C -NMR spectra ----- 2-9

----- PROCESSING PARAMETERS -----
 dc_balance : 0 : FALSE
 freq : 0.2 [Hz] : 0.0 [s]
 h1 : 0 [N] : 89 [N] : 100 [N]
 h2 : 1 : 0 [N] : 89 [N] : 100 [N]
 h3 : 1 : TRUE : TRUE
 pha : 0 [deg]
 ppa : 0 [deg]
 Derived from: 2018121901-1.jdf

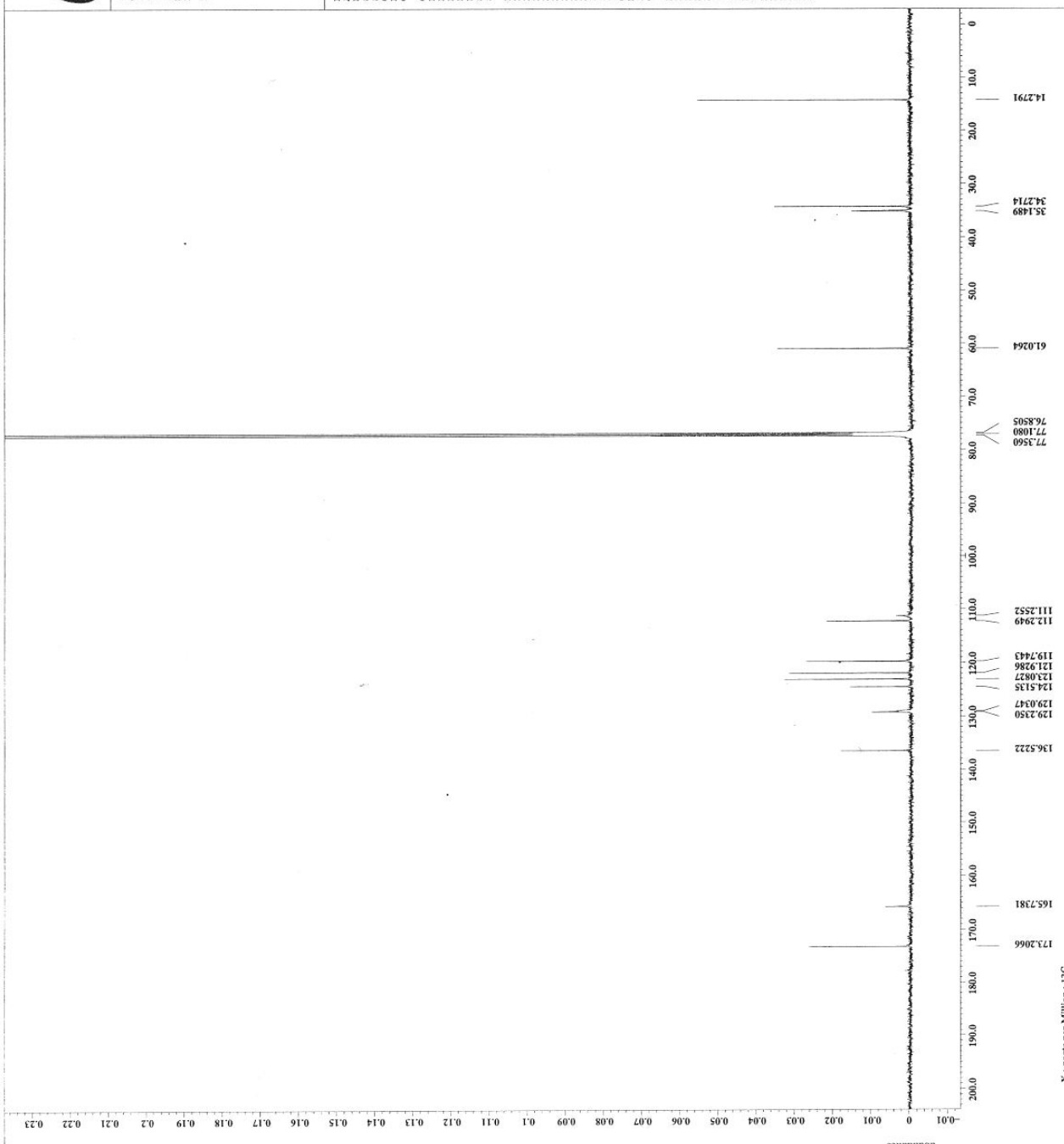
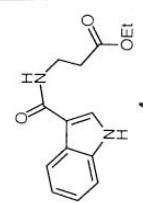
File Name = 2018121901-4.jdf
 Author = delta
 Sample = pulse_wsz
 Sample_id = S8730329
 Solvent = CHLOROFORM-D
 Date_acq = 2018-12-19 15:39:56
 Revision_time = 19-DEC-2018 20:23:00
 Current_time = 19-DEC-2018 20:23:12
 Comment = single_pulse
 Data_format = 1D COMPLEX
 Dia_size = 1H
 Dia_units = [ppm]
 Dimensions = X2400
 Spectrometer = DELTA1_MMR
 Field_strength = 11.742359 [T] (500 [MHz])
 X_domain = 1.74587904 [s]
 X_freq = 15891521 [MHz]
 X_offset = 5.0 [ppm]
 X_points = 16384
 X_resolution = 0.9277737 [Hz]
 X_sweep = 9.38438438 [MHz]
 Irr_domain = 1H
 Irr_freq = 15891521 [MHz]
 Irr_offset = 5.0 [ppm]
 Tri_domain = 1H
 Tri_freq = 15891521 [MHz]
 Tri_offset = 5.0 [ppm]
 Clipped = FALSE
 Stop_return = 16
 Total_scans = 16
 X_90_width = 12 [us]
 X_acq_time = 1.74587904 [s]
 X_angle = 5 [deg]
 X_delay = 6 [us]
 X_pulse = 6 [us]
 Irr_mode = Off
 Irr_delay = 6 [us]
 Irr_presat = FALSE
 Initial_wait = 1 [s]
 Acq_delay = 5 [s]
 Repetition_delay = 5 [s]
 Repetition_time = 5.74587904 [s]
 Temp_get = 23 [degC]





----- PROCESSING PARAMETERS -----
 dc_balance : 0 : FALSE
 sump : 2.0 [Hz] : 0.0 [s]
 kernel : 1.0 [Hz] : 80 [Hz] : 100 [Hz]
 zerofill : 1 : 0 [Hz] : TRUE
 zft : 1 : TRUE : TRUE
 scalingphase : ppm
 Derived from: 2018121901-6.jdf

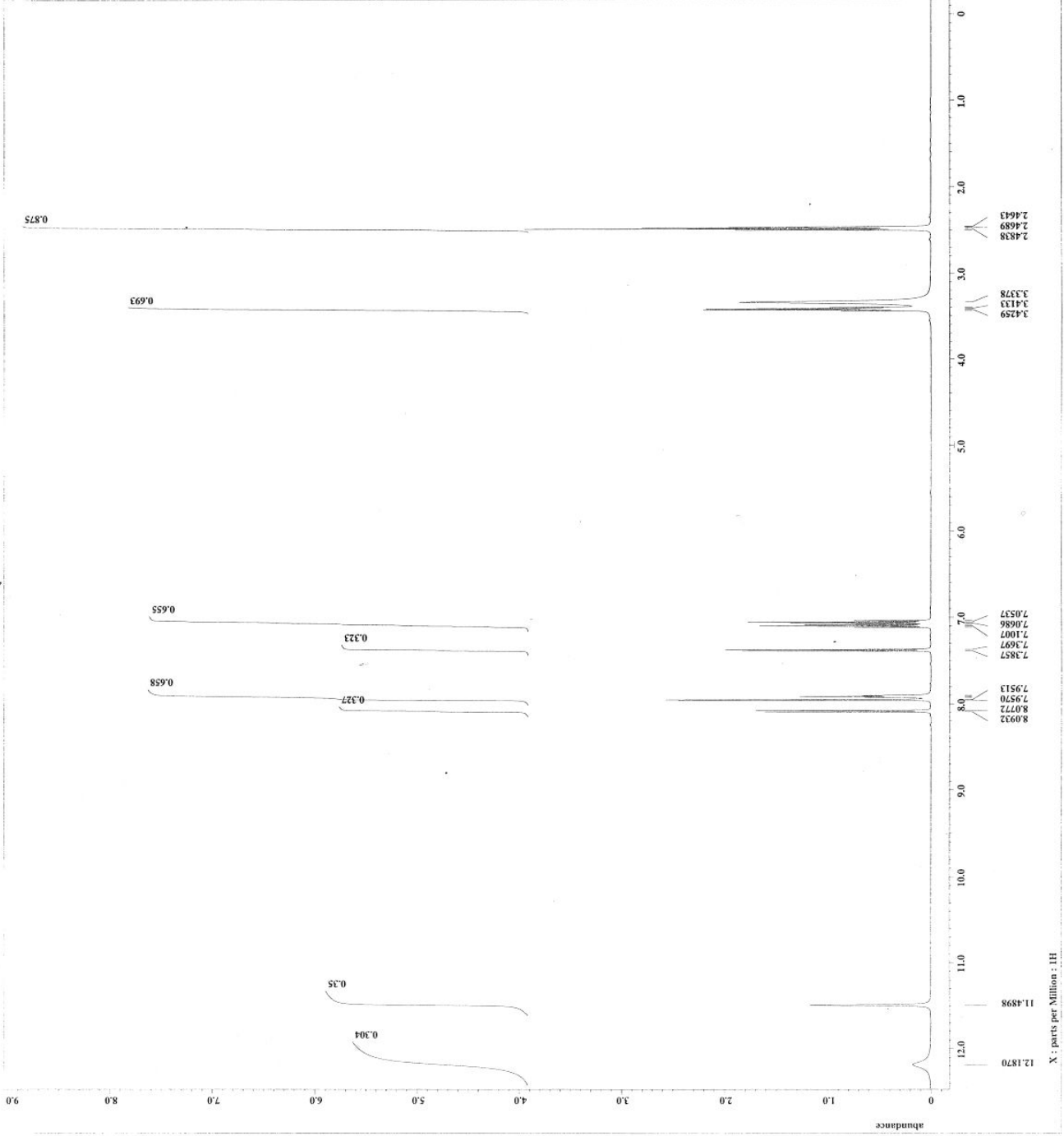
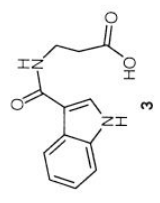
File Name = 2018121901-6.jdf
 Author = delta
 Experiment = single_pulse_dec
 Sample Id = CHLOROCOM-D
 Solvent = CHLOROCOM-D
 Creation_time = 8-DEC-2018 12:16:30
 Revision_time = 20-DEC-2018 09:57:59
 Current_time = 20-DEC-2018 09:17:21
 Comment = single pulse decouple
 Data format = 26214
 Data size = 13C
 Dimensions = 1D
 Dimensions = 1D
 Site = ECA500
 Spectrometer = DEPTAQ_MMR
 Field_strength = 11.747379 [T] (500 [MHz])
 X_acq_duration = 0.83361792 [s]
 X_sweep = 128.76529768 [MHz]
 X_freq = 100 [ppm]
 X_offset = 27769
 X_points = 1.19959034 [Hz]
 X_resolution = 39.3081761 [kHz]
 X_sweep = 500.15991521 [MHz]
 Irr_offset = 74.052
 Irr_freq = 15711
 Irr_sweep = 12.8 [us]
 Irr_time = 0.83361792 [s]
 Total_scans = 2 [scans]
 X_90_width = 2.2 [dB]
 X_acq_time = 4.26666667 [us]
 X_pulse = 21.09 [dB]
 Irr_en_dec = WALTZ
 Irr_noise = TRUE
 Decoupling = TRUE
 Relax_wait = 2 [s]
 Noe_time = 2 [s]
 Relaxation_delay = 2 [s]
 Repetition_time = 2.83361792 [s]
 Temp_get = 23.7 [C]



X : parts per Million : PPM

```

Filename = 20190301-4_jdf
Experiment = single_pulse_em2
Sample_id = 8855752
Scan_rate = 120.000000
Creation_time = 1-MAR-2019 14:35:27
Revision_time = 1-MAR-2019 15:29:34
Current_time = 1-MAR-2019 15:29:38
Content = single_pulse
Data_format = ID_COMPLEX
Name = 13C107
Dim_units = X
Dimensions = X
Spectrometer = DELTA2_MMR
Field_strength = 127.6242912[G] (500[M
X_domain = 1H_6242912[G]
X_freq = 495.13191398[MHz]
X_offset = 1.000000
X_points = 16384
X_prescans = 1
X_resolution = 0.568928[Hz]
X_domain = 1H_6242912[G]
Irr_freq = 495.13191398[MHz]
X_offset = 1.000000
Tri_domain = 1H
Tri_offset = 0.000000
Tri_freq = 495.13191398[MHz]
Tri_offset = 0.000000
MODReturn = 1
AcqMode = 16
Scans = 16
Total_scans = 16
X_90_width = 12.7[us]
X_acq_time = 1.76422912[s]
X_sfs = 3.5[GS]
X_pulse = 6.35[us]
X_offset = 0.000000
Tri_mode = OFF
DANTE_Preset = FALSE
Initial_wait = 1[s]
Relaxation_delay = 2[s]
Repetition_delay = 2[s]
Repetition_time = 6.76422912[s]
Temp_get = 21.5[degC]
  
```



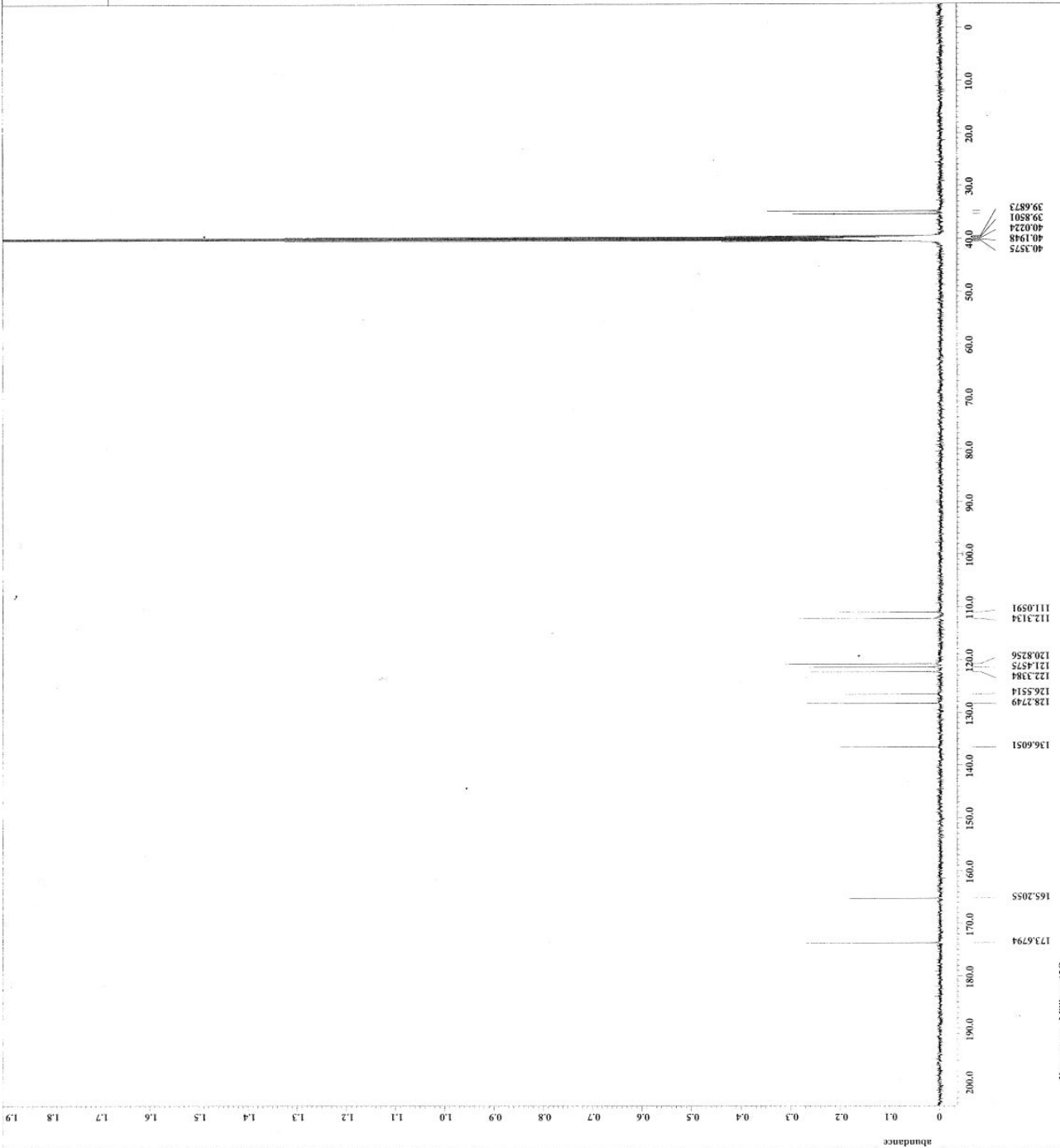
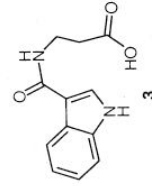
```

Filename = 20190101-10-jf4
ExpDate = 
Experiment = 
Sample_id = S862747
Solvent = DMSO-d6
Revision_time = 1-MAR-2019 17:34:58
Revision_time = 1-MAR-2019 18:22:40
Current_time = 1-MAR-2019 18:22:57

Content = single pulse decouple
Data_format = 1D COMPLEX
Dir_size = 2524
Dir_unit = [pps]
Dim_units = X
Site = ECA-500
Spectrometer = Spect_MMR

Field_strength = 11.6292642[T] (500[M
X_domain = 13
X_freq = 124.5010055[MHz]
X_offset = 100[ppm]
X_resolution = 4
X_sprecess = 1.1520820[Hz]
X_sweep = 3.0625[GHz]
X_t1_rho = 495.13191398[MHz]
X_t1_offset = 5[ppm]
Mod_return = 1
Scans = 1180
Total_scans = 1180

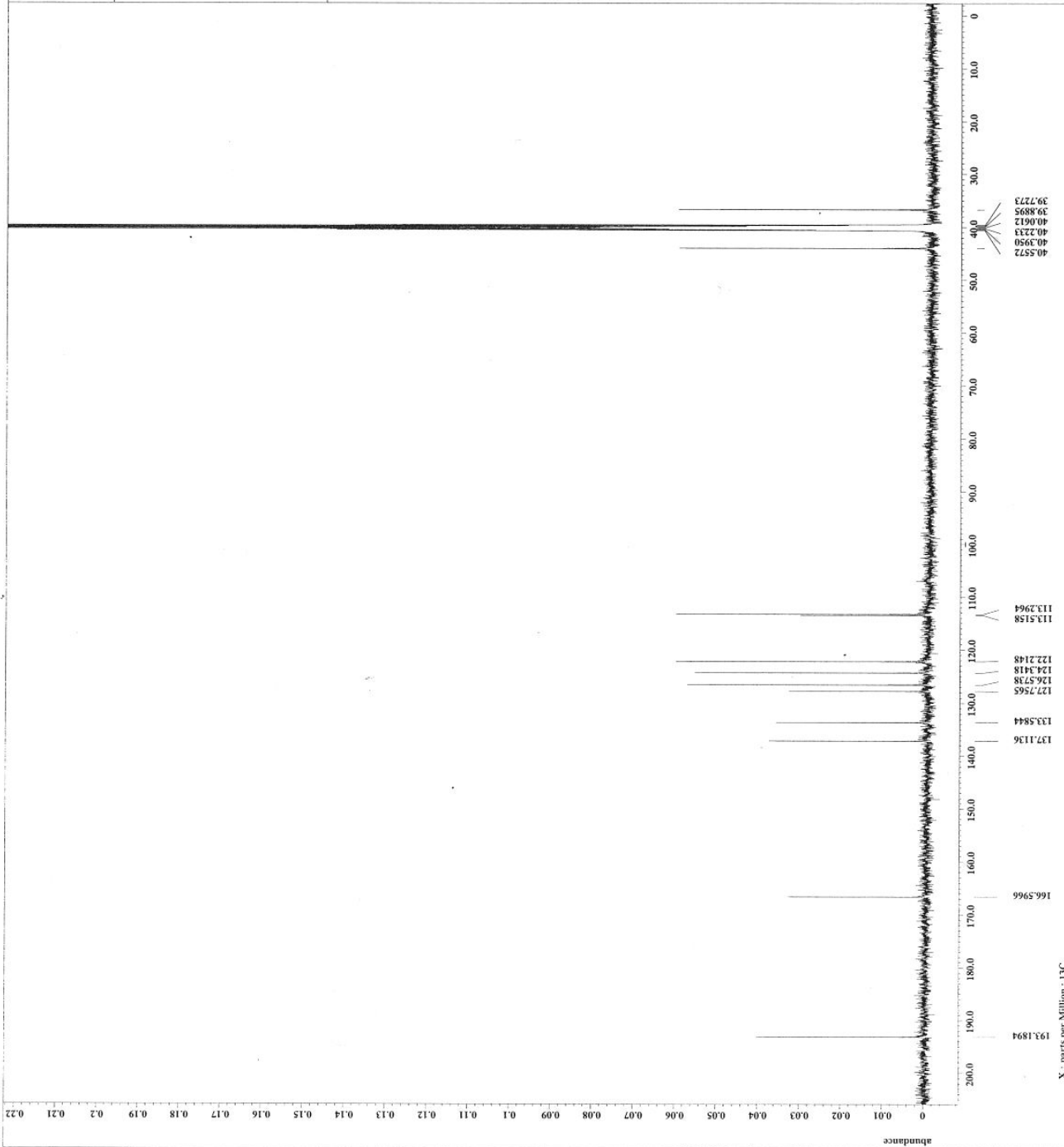
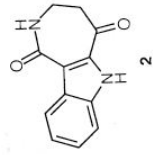
X_90_width = 10.6[us]
X_acq_time = 0.8388608[s]
X_delay = 9.0[us]
X_pulse = 9.5[us]
X_pulse = 3.5333333[us]
X_t1_rho = 20.548[us]
X_t1_offset = 20.548[us]
X_t1_offset = 20.548[us]
X_t1_offset = 20.548[us]
Decoupling = TRUE
Initial_wait = TRUE
Noe_time = 2[s]
Recvr_gain = 60
Repetition_time = 2.18188608[s]
Temp_get = 22.8[degC]
  
```





----- PROCESSING PARAMETERS -----
 dc_balance 0 : FALSE
 f2 0 : 0.000000 [Hz]
 frequency 400 : 400.146400 [MHz]
 zeropill 1 : 0.000000 [ppm]
 acquire : TRUE
 machinephase :
 ppm
 Derived from: TA190206f-7.jcf

File name = TA190206f-8.jcf
 Author =
 Experiment = single_pulse_dec
 Date_Exp =
 Solvent = DMSO-D6
 Creation_time = 25-JAN-2019 17:11:38
 Revision_time = 6-FEB-2019 14:39:37
 Current_time = 8-FEB-2019 14:37:02
 Comment = single pulse decouple
 Acq_comment =
 Decouple = 2D31
 Dim_size = 13C
 Dim_title =
 Dim_units = [ppm]
 Dimensions =
 Site = ECN500
 Spectrometer = DELTA2_NMR
 Field_strength = 11.7473579 [T] (500.136 [MHz])
 X_acq_duration = 0.83346772 [s]
 X_domain = 13C 76429788 [MHz]
 X_freq = 100.626100 [MHz]
 X_offset = 32788
 X_points =
 X_prescan = 1.19958034 [Hz]
 X_resolution = 39.3081761 [MHz]
 X_sweep =
 IR_domain = 1H 16091521 [MHz]
 IR_freq = 50.100000 [MHz]
 IR_offset = FALSE
 Clipped =
 Mod_return = 1095
 Total_scans = 3095
 X_00_width = 12.6 [deg]
 X_acq_time = 0.83346772 [s]
 X_angle = 30 [deg]
 X_atn = 5.3 [dB]
 X_atn_time = 21.091487 [us]
 IR_atn_dec = 21.09 [dB]
 IR_atn_dec_time = 21.09 [dB]
 IR_noise =
 Initial_wait = 1 [s]
 Noe = TRUE
 Noe_time = 4 [s]
 Recv_gain = 5 [dB]
 Relaxation_delay = 2 [s]
 Repetition_time = 2.83346772 [s]
 Temp_set = 23.7 [degC]



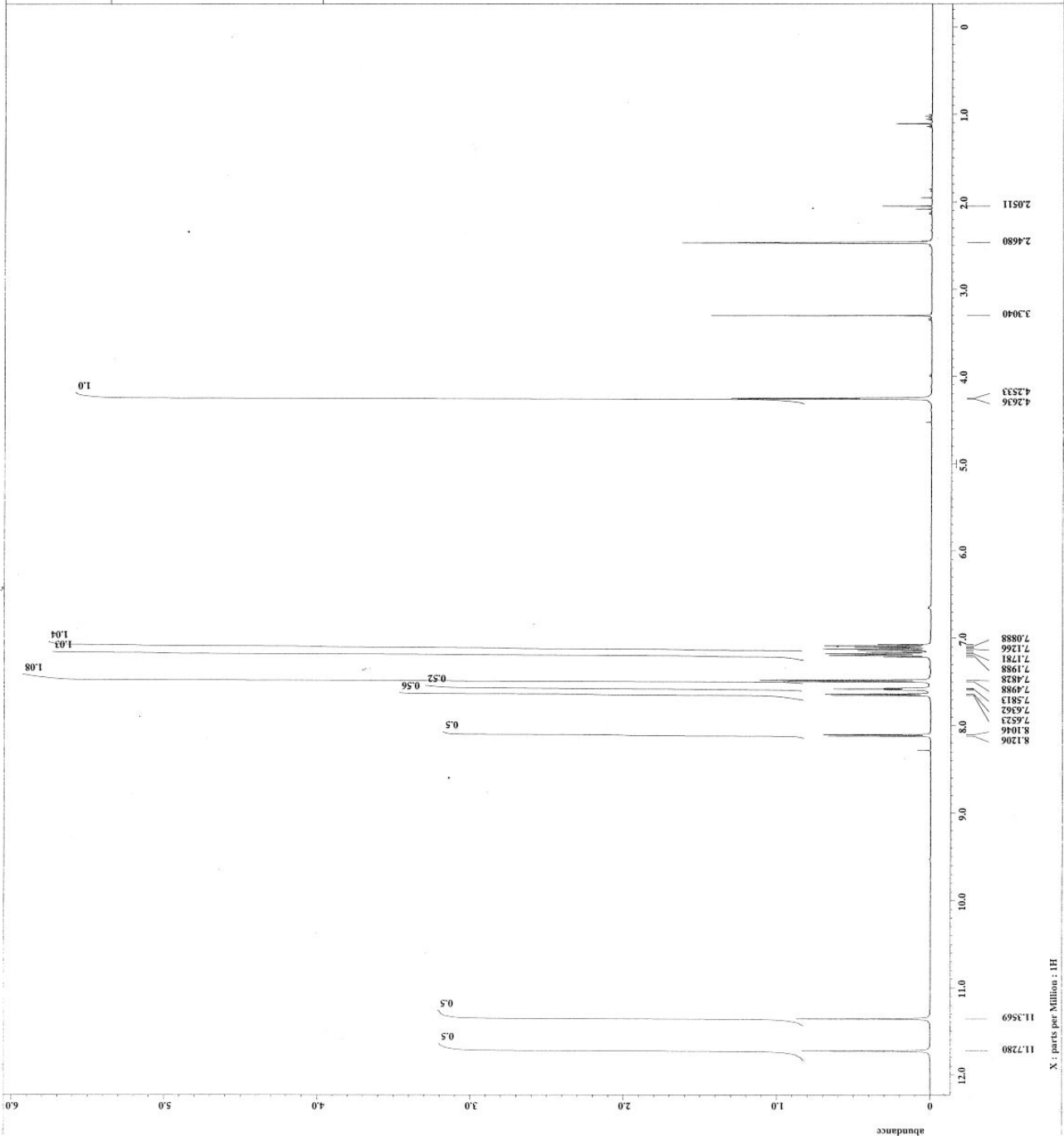
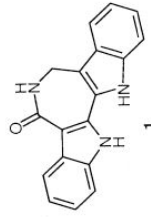
X : parts per Million : PPM



----- PROCESSING PARAMETERS -----
GC balance : 0 : FALSE
smp : 0.2[Hz] : 0.0[s]
smp2 : 0.3 : 0 [N] : 80 [N] : 100 [N]
zpc : 4131 : 1
fft : 1 : TRUE : TRUE
machinephase
ppm

Derived from: 201902101-1.jdr

Filename = 201902101-4.jdr
Experiment = single_pulse.ex2
Sample_id = S857405
Date_acq = 2019-02-21 16:07:33
Creation_time = 9-FEB-2019 18:39:56
Revision_time = 21-FEB-2019 16:07:33
Current_time = 21-FEB-2019 16:15:19
Comment = single_pulse
Data_format = ID COMPLEX
Dim1 = 107
Dim2 = 1H
Dim_title = [ppm]
Dim_units = [ppm]
Dimensions = 107x1
Spectrometer = DELTA1_NMR
Field_strength = 11.7437904 [G]
X_domain = 1.7437904 [G]
X_freq = 500.15994521 [MHz]
X_points = 16384
X_resolution = 1.572737 [Hz]
X_swept = 9.3843438 [MHz]
X_center = 1H
IRF_domain = 500.15994521 [MHz]
IRF_freq = 1H [ppm]
IRF_domain = 500.15994521 [MHz]
IRF_freq = 1H [ppm]
Tr1_domain = 500.15994521 [MHz]
Tr1_freq = 1H [ppm]
Tr2_domain = 500.15994521 [MHz]
Tr2_freq = 1H [ppm]
Tr3_domain = 500.15994521 [MHz]
Tr3_freq = 1H [ppm]
Mod_return = 1
Scans = 16
Total_scans = 16
X_90_width = 12 [us]
X_90_time = 45 [us]
X_angle = 45 [deg]
X_atn = 3.4 [dB]
X_pulse = 6 [us]
X_mode = Off
Tr1_mode = Off
Data_preset = FIDSE
Acq_start = 2019-02-21 16:07:33
Acq_end = 2019-02-21 16:07:33
Relaxation_delay = 5 [s]
Repetition_time = 2.7437904 [s]
Temp_set = 21.4 [degC]



X : parts per Million : 1H

