

Supporting Information

Synthesis and Properties of Imidazolo Fused Benzotriazinyl Radicals

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Supporting Information

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NMR Spectra. ¹ H and ¹³ C NMR Spectra for All New Compounds and ¹ H NMR Spectra of Known Compounds 13a , 13b , 14 and <i>N</i> -(4-nitrophenyl)acetamide Prepared <i>via</i> New Routes	S21

Cyclic Voltammetry Spectra of Radicals 4a-i and 5

Figure S1. Cyclic voltammogram of radical 4a

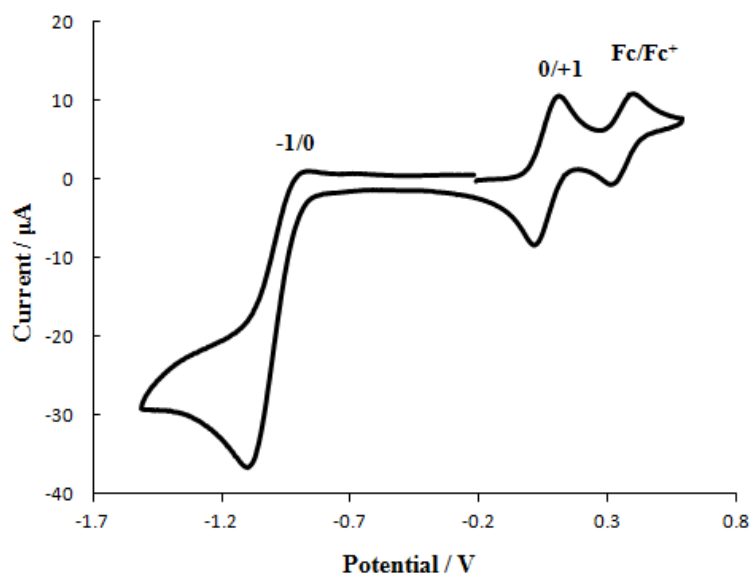


Figure S2. Cyclic voltammogram of radical 4b

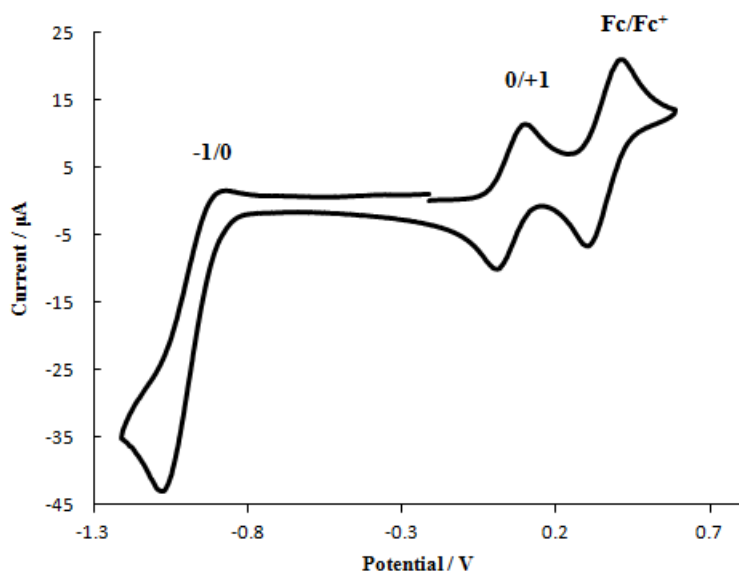


Figure S3. Cyclic voltammogram of radical **4c**

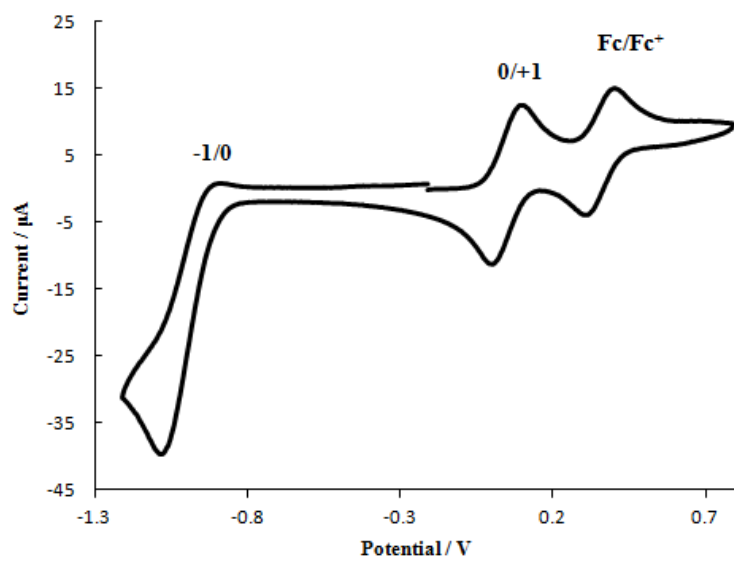


Figure S4. Cyclic voltammogram of radical **4d**

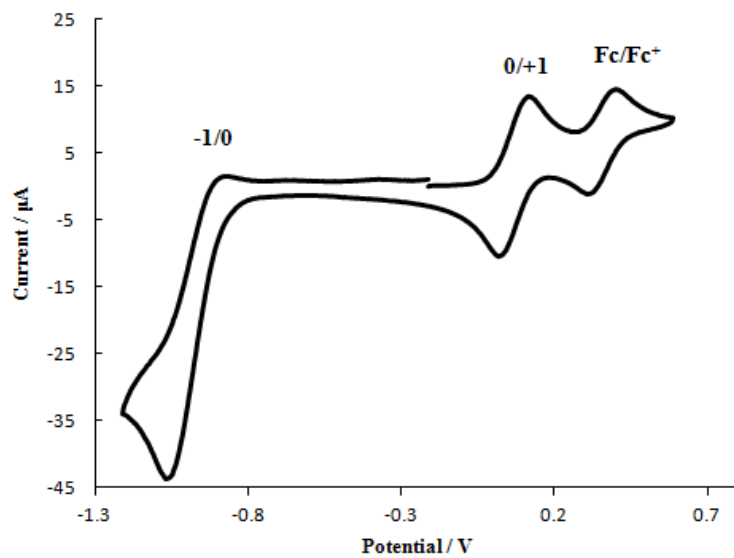


Figure S5. Cyclic voltammogram of radical 4e

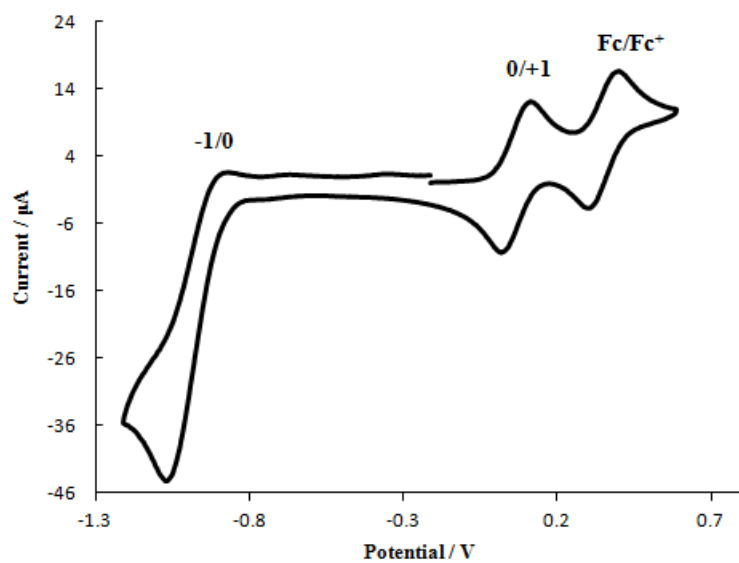


Figure S6. Cyclic voltammogram of radical 4f

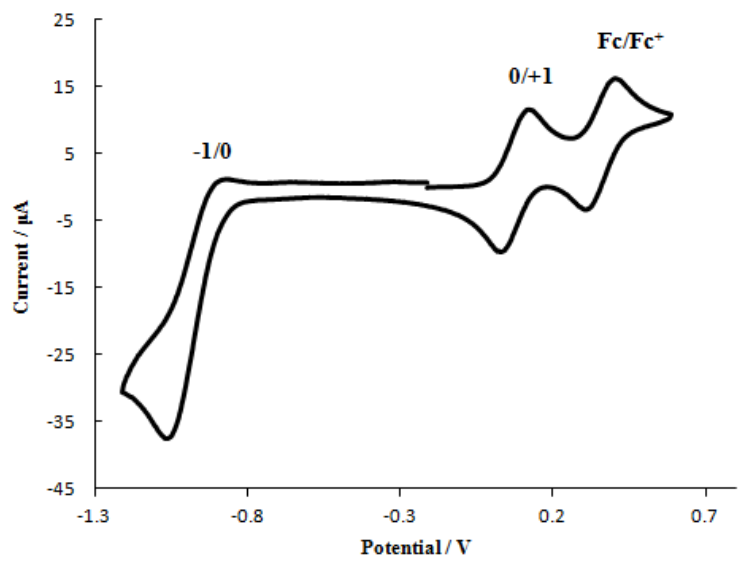


Figure S7. Cyclic voltammogram of radical **4g**

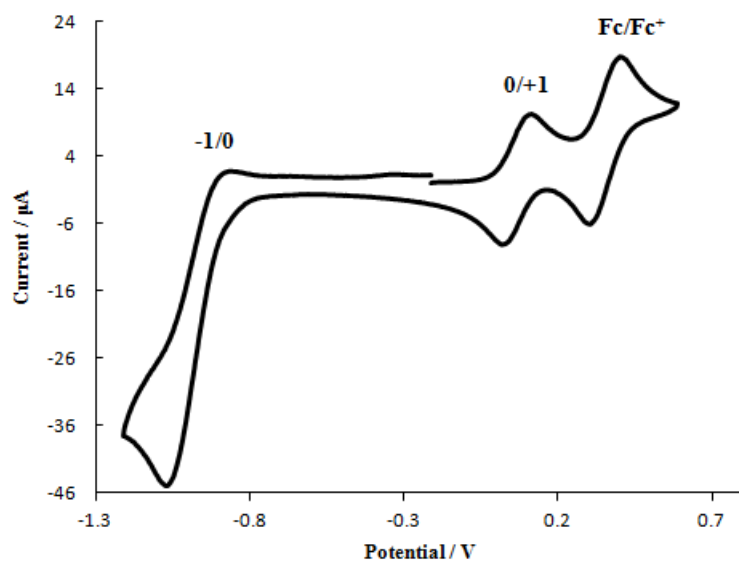


Figure S8. Cyclic voltammogram of radical **4h**

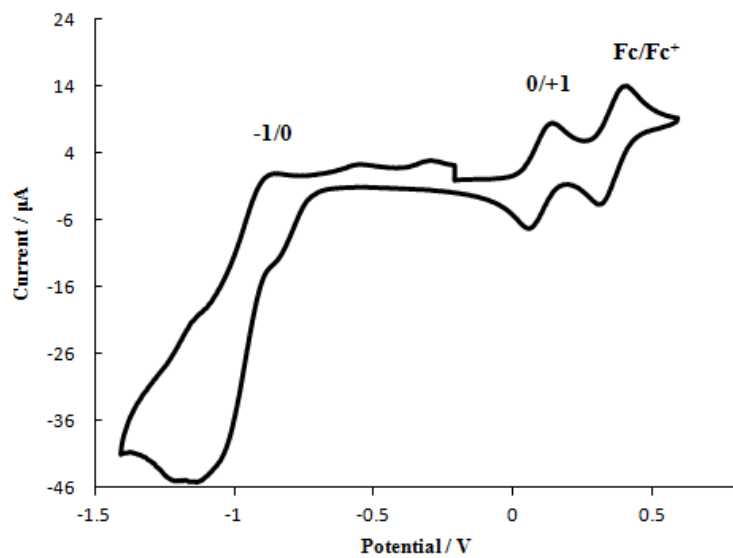


Figure S9. Cyclic voltammogram of radical 4i

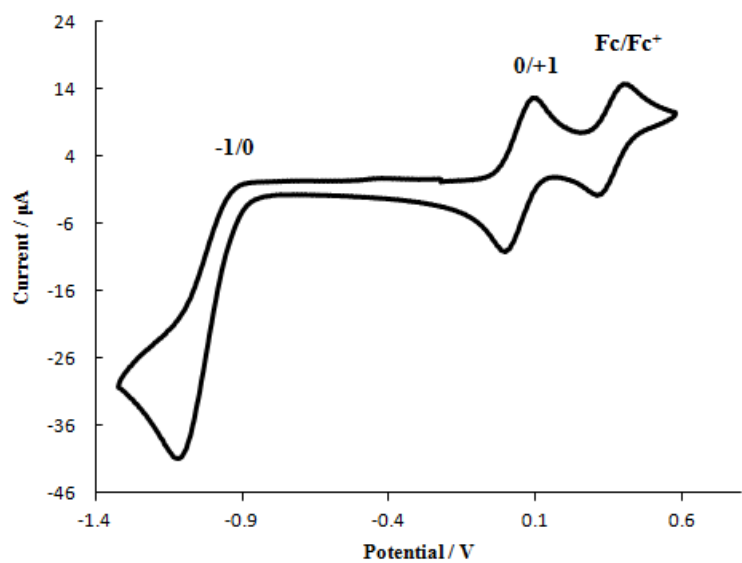
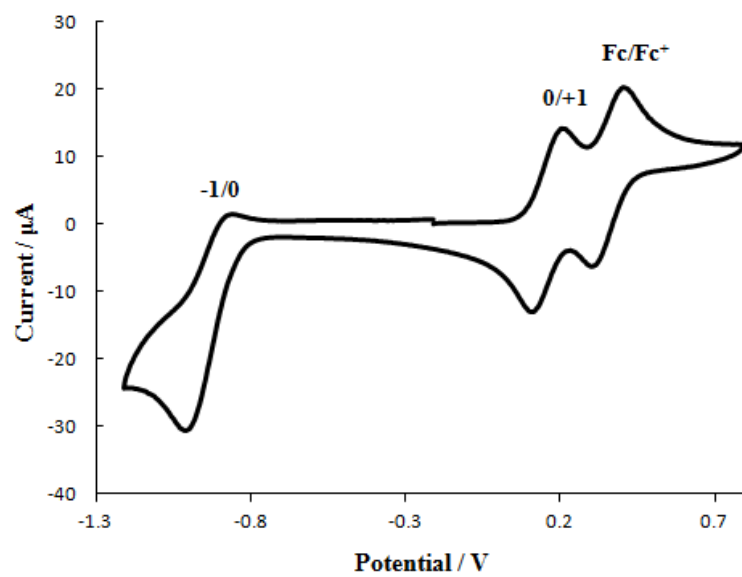


Figure S10. Cyclic voltammogram of radical 5



Solid-State EPR Spectra of Radicals 4a-i and 5

Figure S11. Solid-state EPR spectrum of radical **4a**

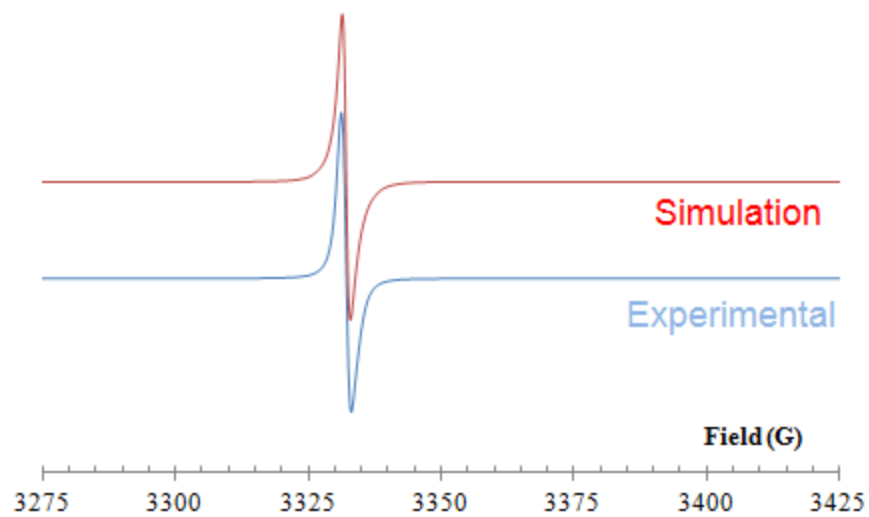


Figure S12. Solid-state EPR spectrum of radical **4b**

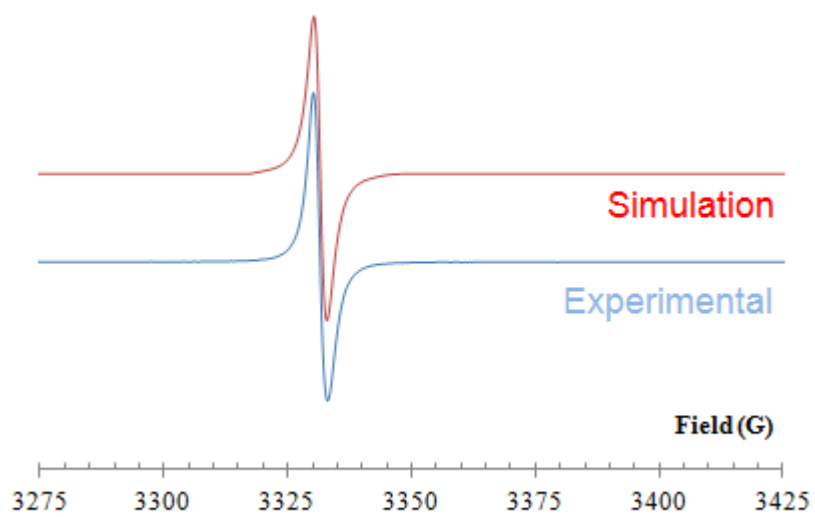


Figure S13. Solid-state EPR spectrum of radical **4c**

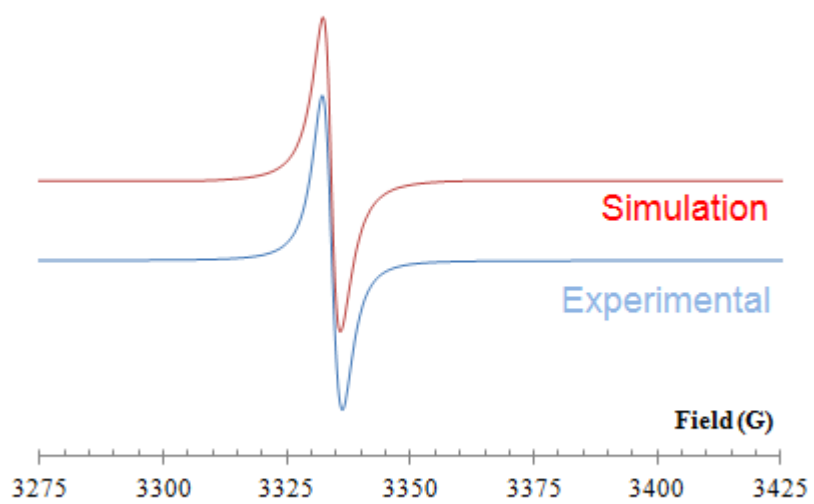


Figure S14. Solid-state EPR spectrum of radical **4d**

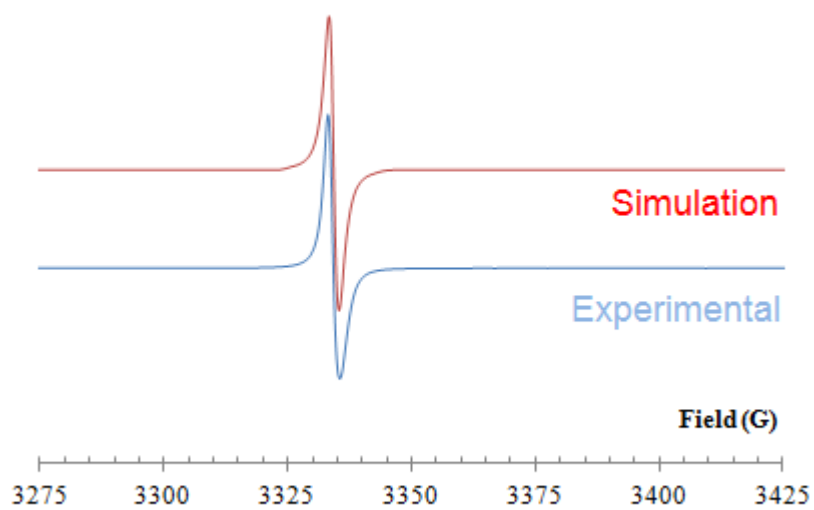


Figure S15. Solid-state EPR spectrum of radical **4e**

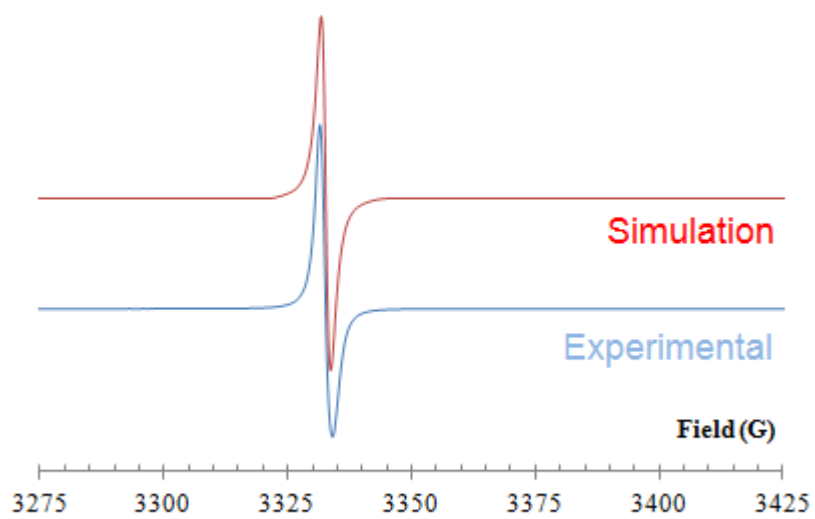


Figure S16. Solid-state EPR spectrum of radical **4f**

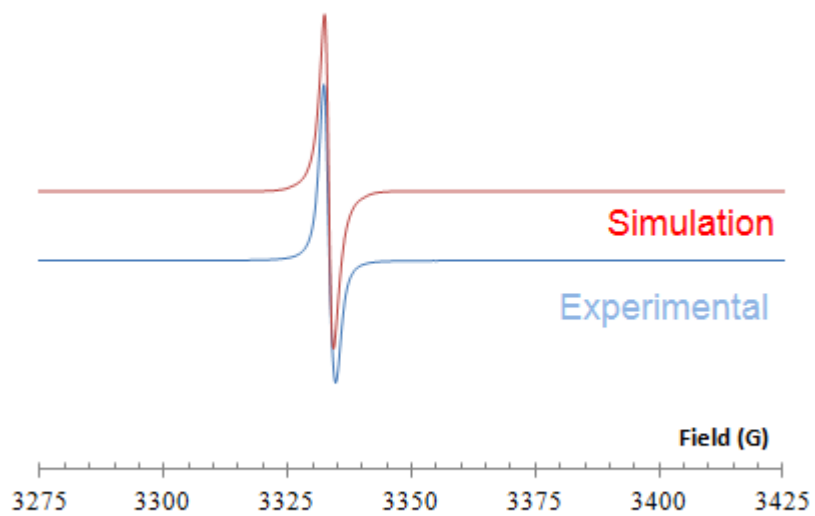


Figure S17. Solid-state EPR spectrum of radical **4g**

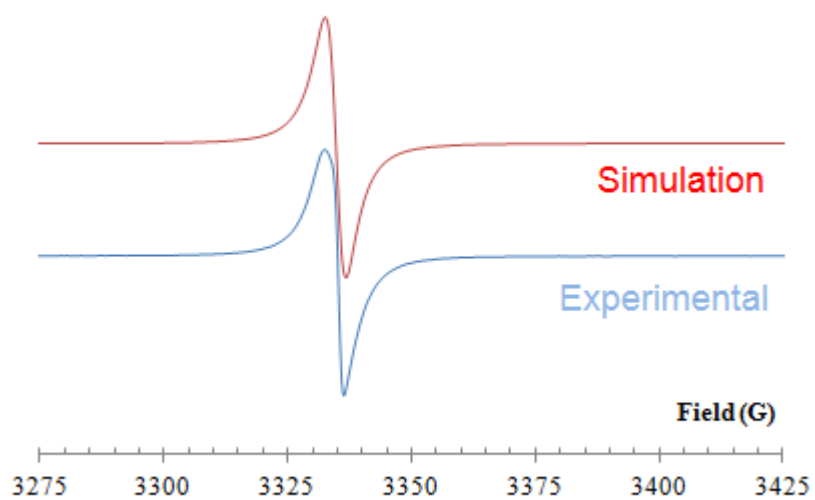


Figure S18. Solid-state EPR spectrum of radical **4h**

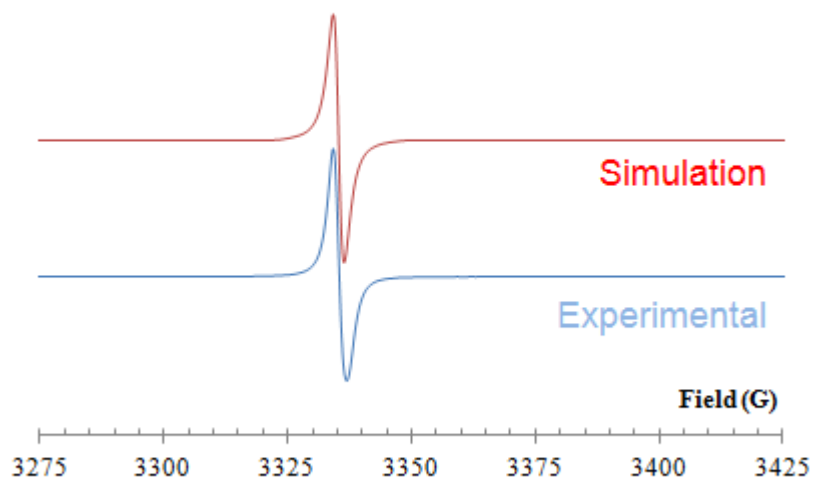


Figure S19. Solid-state EPR spectrum of radical **4i**

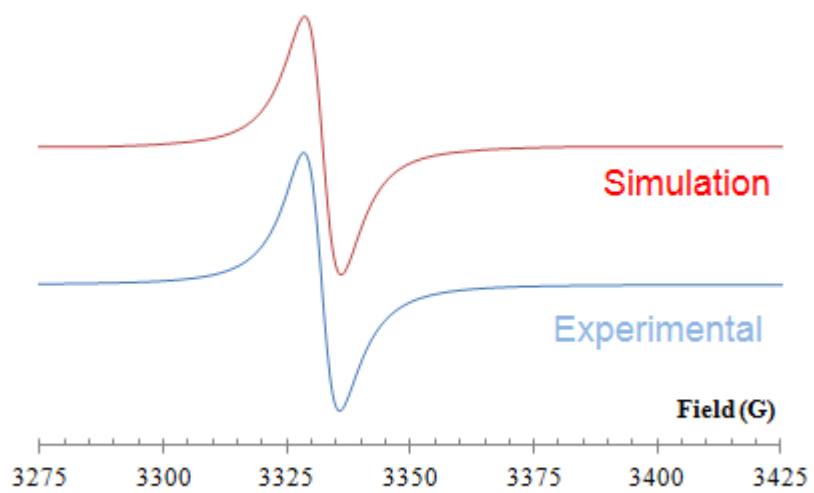
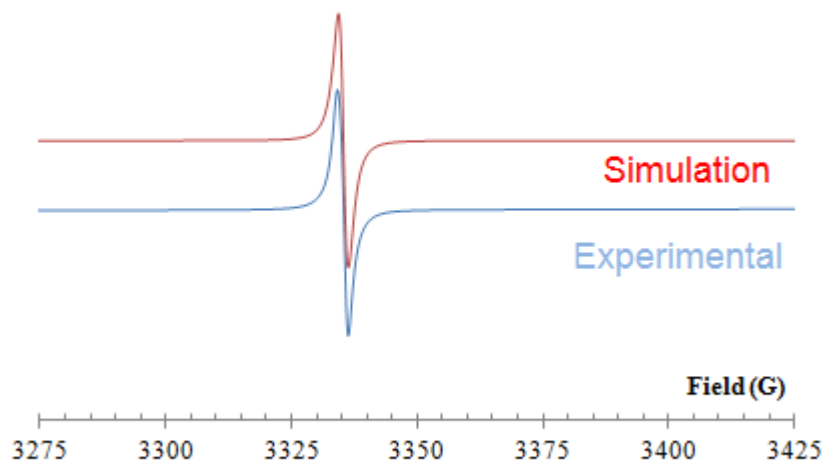


Figure S20. Solid-state EPR spectrum of radical **5**



Solution EPR Spectra of Radicals 5 and 4a-i

Figure S21. Solution EPR spectrum of radical **4a**

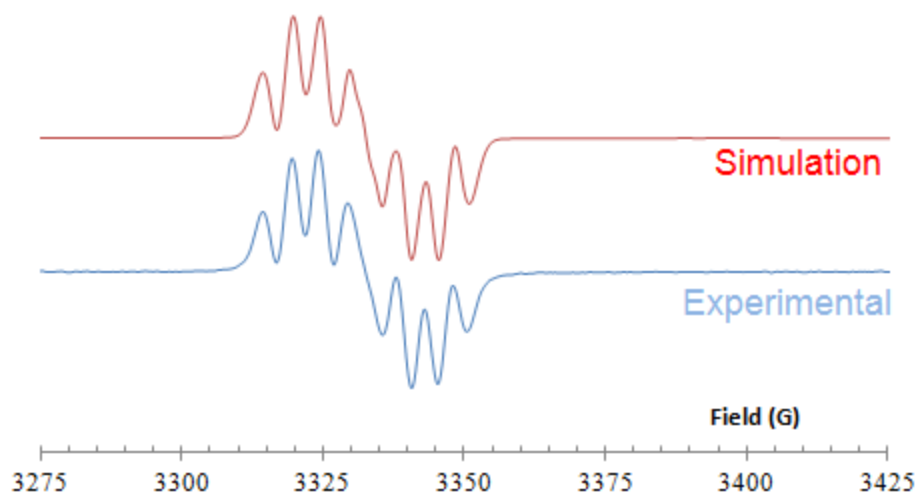


Figure S22. Solution EPR spectrum of radical **4b**

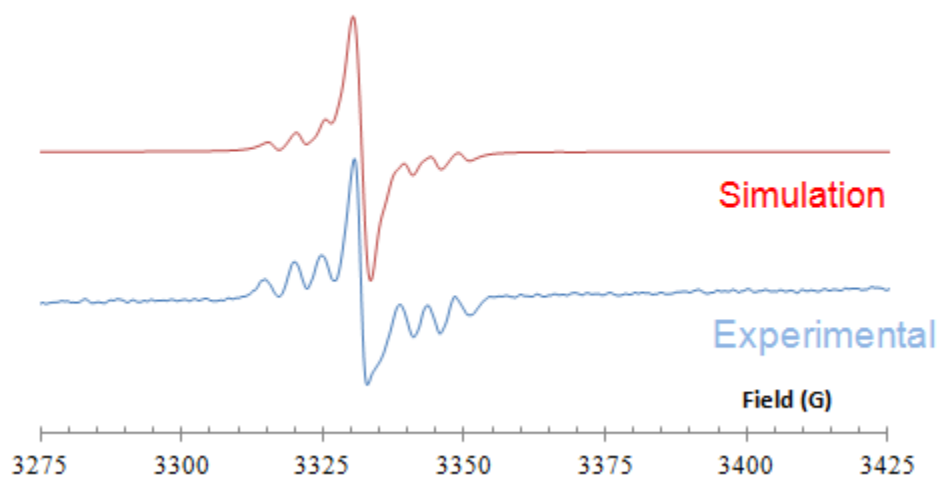


Figure S23. Solution EPR spectrum of radical **4c**

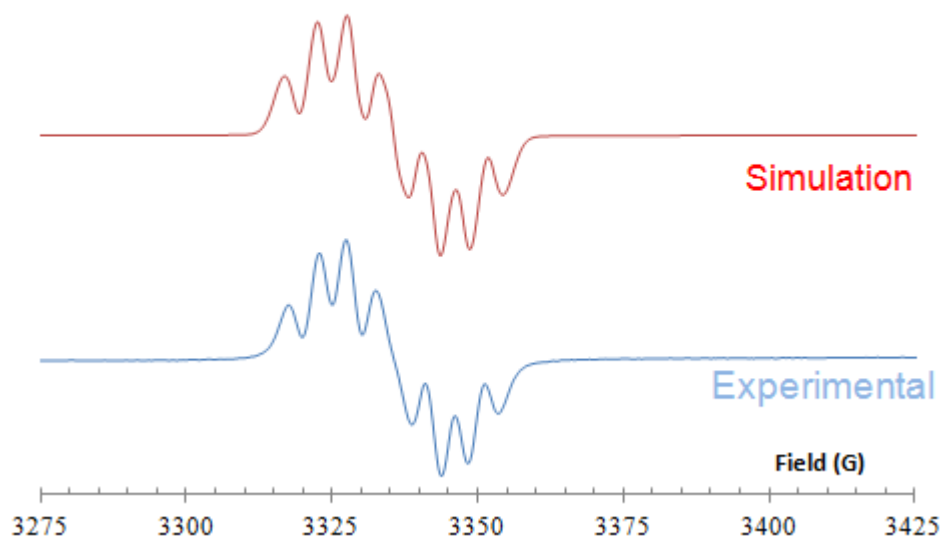


Figure S24. Solution EPR spectrum of radical **4d**

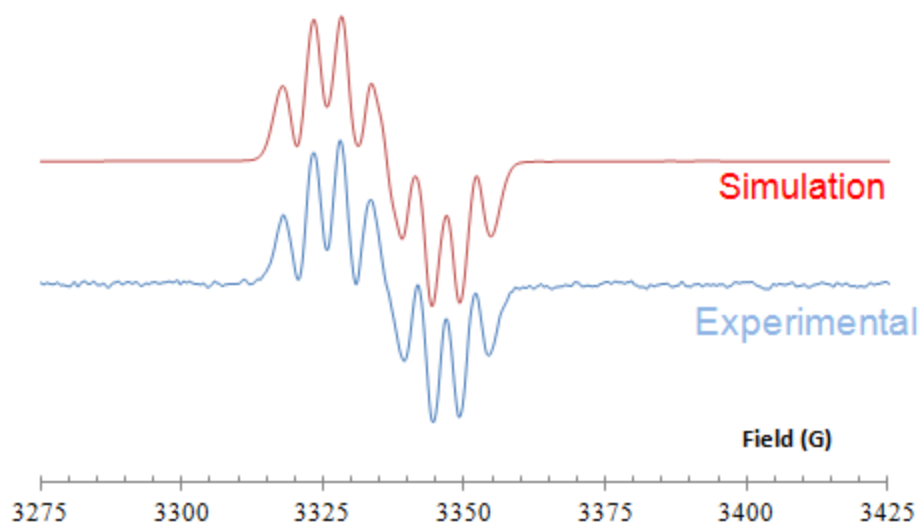


Figure S25. Solution EPR spectrum of radical **4e**

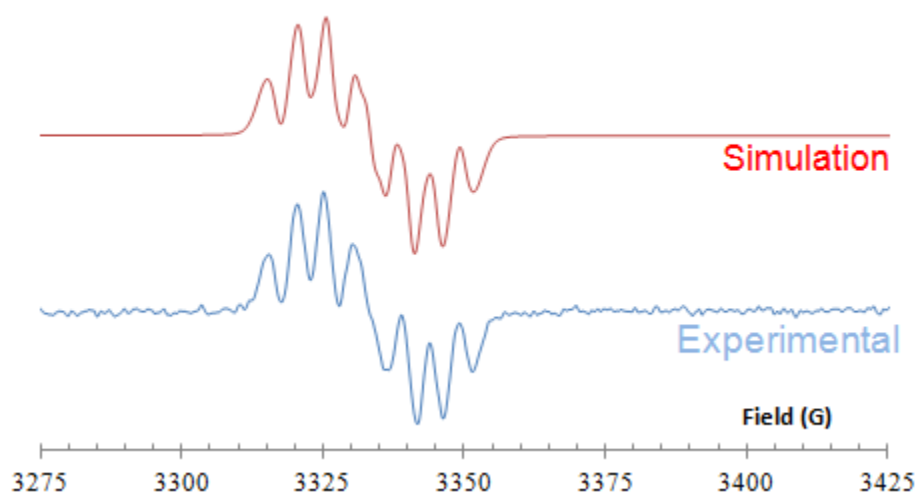


Figure S26. Solution EPR spectrum of radical **4f**

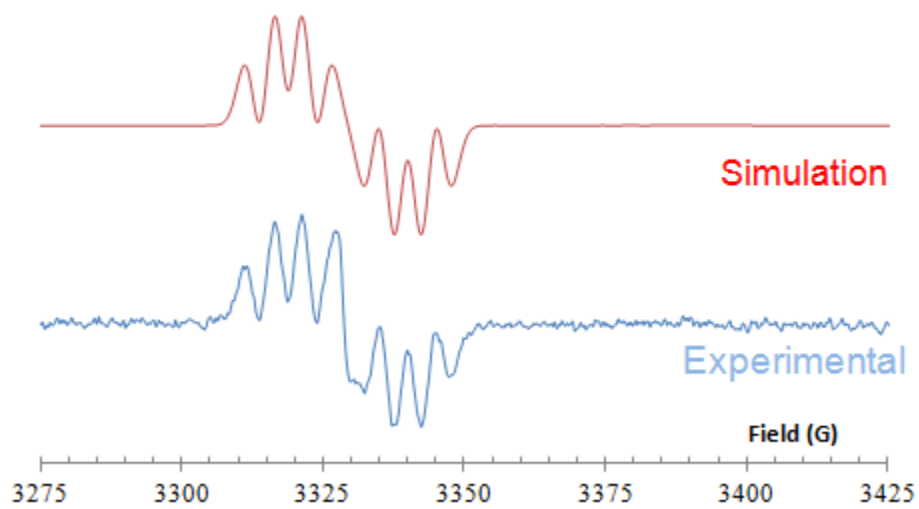


Figure S27. Solution EPR spectrum of radical **4g**

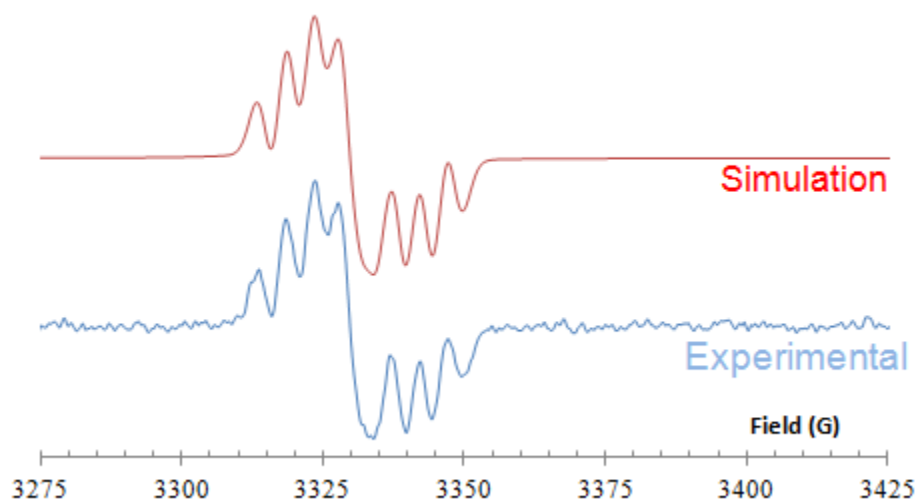


Figure S28. Solution EPR spectrum of radical **4h**

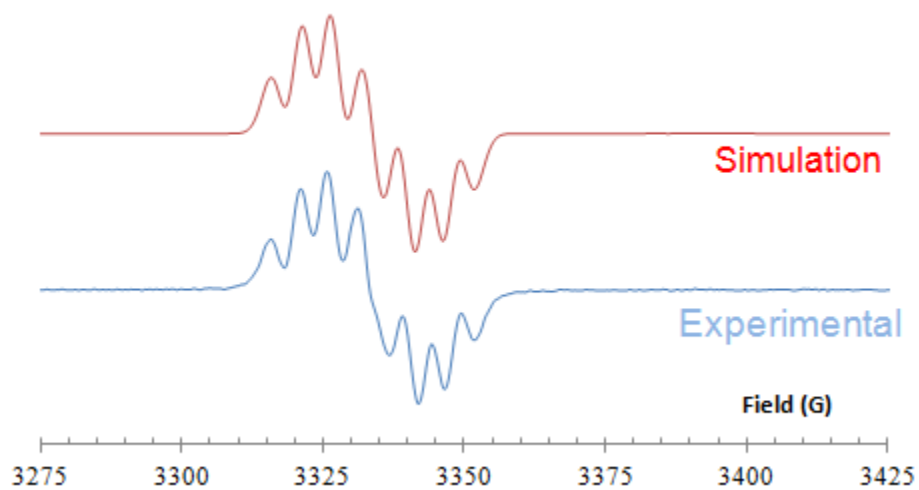


Figure S29. Solution EPR spectrum of radical **4i**

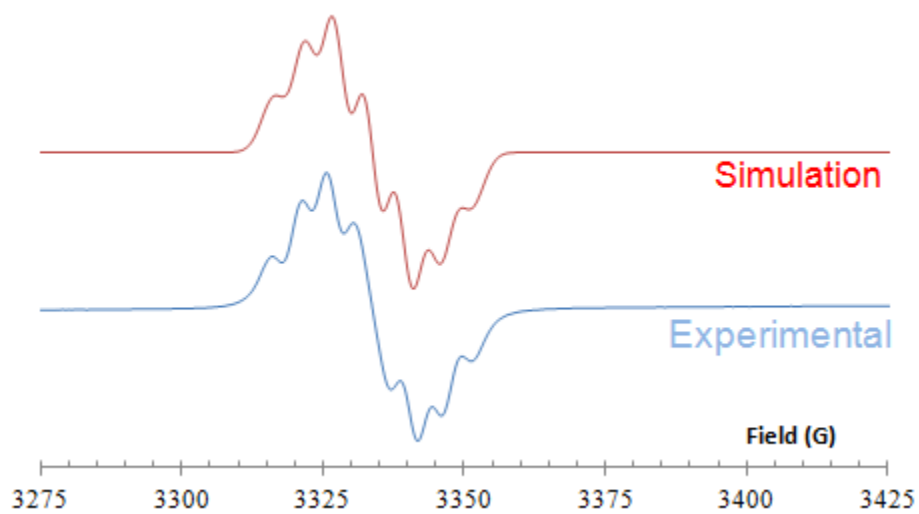
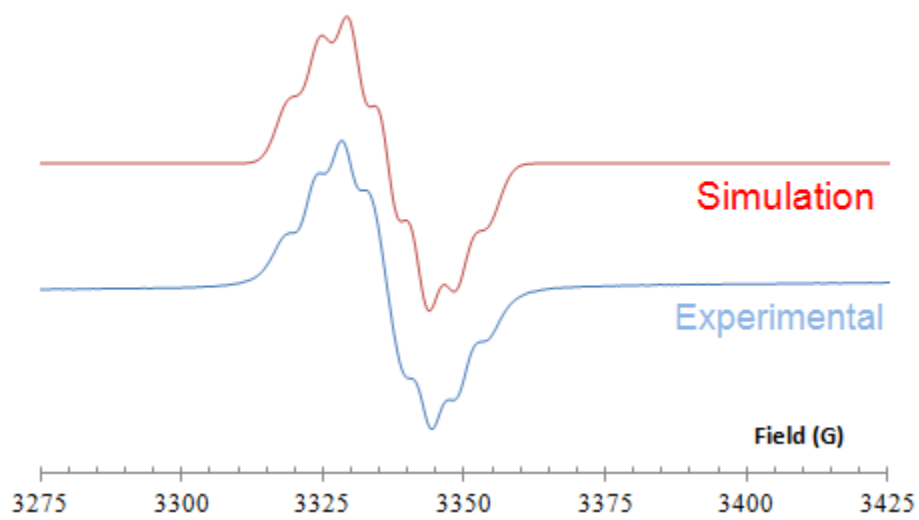


Figure S30. Solution EPR spectrum of radical **5**



X-Ray Crystallography. Radical 4a (CCDC 940089)

Data were collected on an Oxford-Diffraction Supernova diffractometer, equipped with a CCD area detector utilizing Cu-K α radiation ($\lambda = 1.5418 \text{ \AA}$). A suitable crystal was attached to glass fibers using paratone-N oil and transferred to a goniostat where they were cooled for data collection. Unit cell dimensions were determined and refined by using 3520 ($3.34 \leq \theta \leq 72.47$) reflections. Empirical absorption corrections (multi-scan based on symmetry-related measurements) were applied using CrysAlis RED software.¹ The structures were solved by direct method and refined on F² using full-matrix least squares using SHELXL97.² Software packages used: CrysAlis CCD¹ for data collection, CrysAlis RED¹ for cell refinement and data reduction, WINGX for geometric calculations,³ and DIAMOND⁴ for molecular graphics. The non-H atoms were treated anisotropically. The hydrogen atoms were placed in calculated, ideal positions and refined as riding on their respective carbon atoms.

Crystal refinement data (**4a**): C₃₂H₂₂N₅, $M = 476.55$, Triclinic, space group $P - 1$, $a = 7.8924(8) \text{ \AA}$, $b = 11.3721(9) \text{ \AA}$, $c = 13.2802(12) \text{ \AA}$, $\alpha = 96.019(7)^\circ$, $\beta = 90.262(8)^\circ$, $\gamma = 96.237(8)^\circ$, $V = 1178.20(19) \text{ \AA}^3$, $Z = 2$, $T = 100(2) \text{ K}$, $\rho_{\text{calcd}} = 1.343 \text{ g cm}^{-3}$, $2\theta_{\text{max}} = 67$. Refinement of 334 parameters on 4186 independent reflections out of 7408 measured reflections ($R_{\text{int}} = 0.0284$) led to $R_1 = 0.0452$ [$I > 2s(I)$], $wR_2 = 0.1356$ (all data), and $S = 1.044$ with the largest difference peak and hole of 0.220 and -0.315 e^{-3} , respectively.

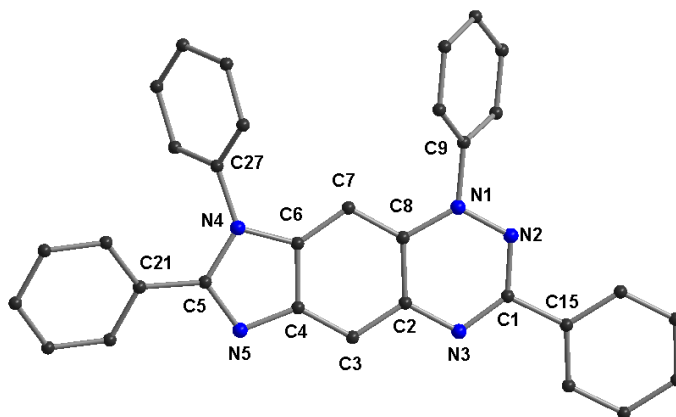


Figure S31. A partially labelled plot of 1,3,7,8-tetraphenyl-4,8-dihydro-1*H*-imidazo[4,5-*g*][1,2,4]benzotriazin-4-yl (**4a**). The hydrogen atoms were omitted for clarity.

X-Ray Crystallography. Radical 5 (CCDC 940088)

Data were collected on an Oxford-Diffraction Supernova diffractometer, equipped with a CCD area detector utilizing Cu-K α radiation ($\lambda = 1.5418 \text{ \AA}$). A suitable crystal was attached to glass fibers using paratone-N oil and transferred to a goniostat where they were cooled for data collection. Unit cell dimensions were determined and refined by using 2999 ($4.99 \leq \theta \leq 66.99^\circ$) reflections. Empirical absorption corrections (multi-scan based on symmetry-related measurements) were applied using CrysAlis RED software.¹ The structures were solved by direct method and refined on F² using full-matrix least squares using SHELXL97.² Software packages used: CrysAlis CCD¹ for data collection, CrysAlis RED¹ for cell refinement and data reduction, WINGX for geometric calculations,³ and DIAMOND⁴ for molecular graphics. The non-H atoms were treated anisotropically. The hydrogen atoms were placed in calculated, ideal positions and refined as riding on their respective carbon atoms.

Crystal refinement data (**5**): C₂₉H₂₀N₄O, $M = 440.49$, Triclinic, space group $P - 1$, $a = 7.8405(13) \text{ \AA}$, $b = 9.2163(12) \text{ \AA}$, $c = 15.484(2) \text{ \AA}$, $\alpha = 96.813(11)^\circ$, $\beta = 90.713(13)^\circ$, $\gamma = 104.161(13)^\circ$, $V = 1076.2(3) \text{ \AA}^3$, $Z = 2$, $T = 100(2) \text{ K}$, $\rho_{\text{calcd}} = 1.359 \text{ g cm}^{-3}$, $2\theta_{\text{max}} = 67$. Refinement of 307 parameters on 3820 independent reflections out of 6475 measured reflections ($R_{\text{int}} = 0.0260$) led to $R_1 = 0.0471$ [$I > 2s(I)$], $wR_2 = 0.1323$ (all data), and $S = 1.028$ with the largest difference peak and hole of 0.217 and -0.257 e^{-3} , respectively.

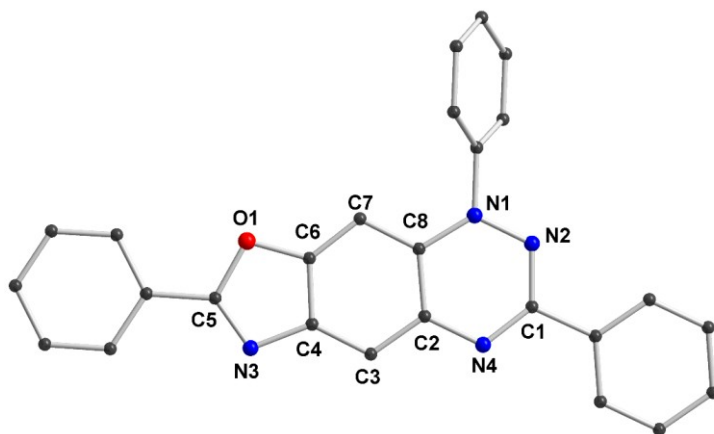


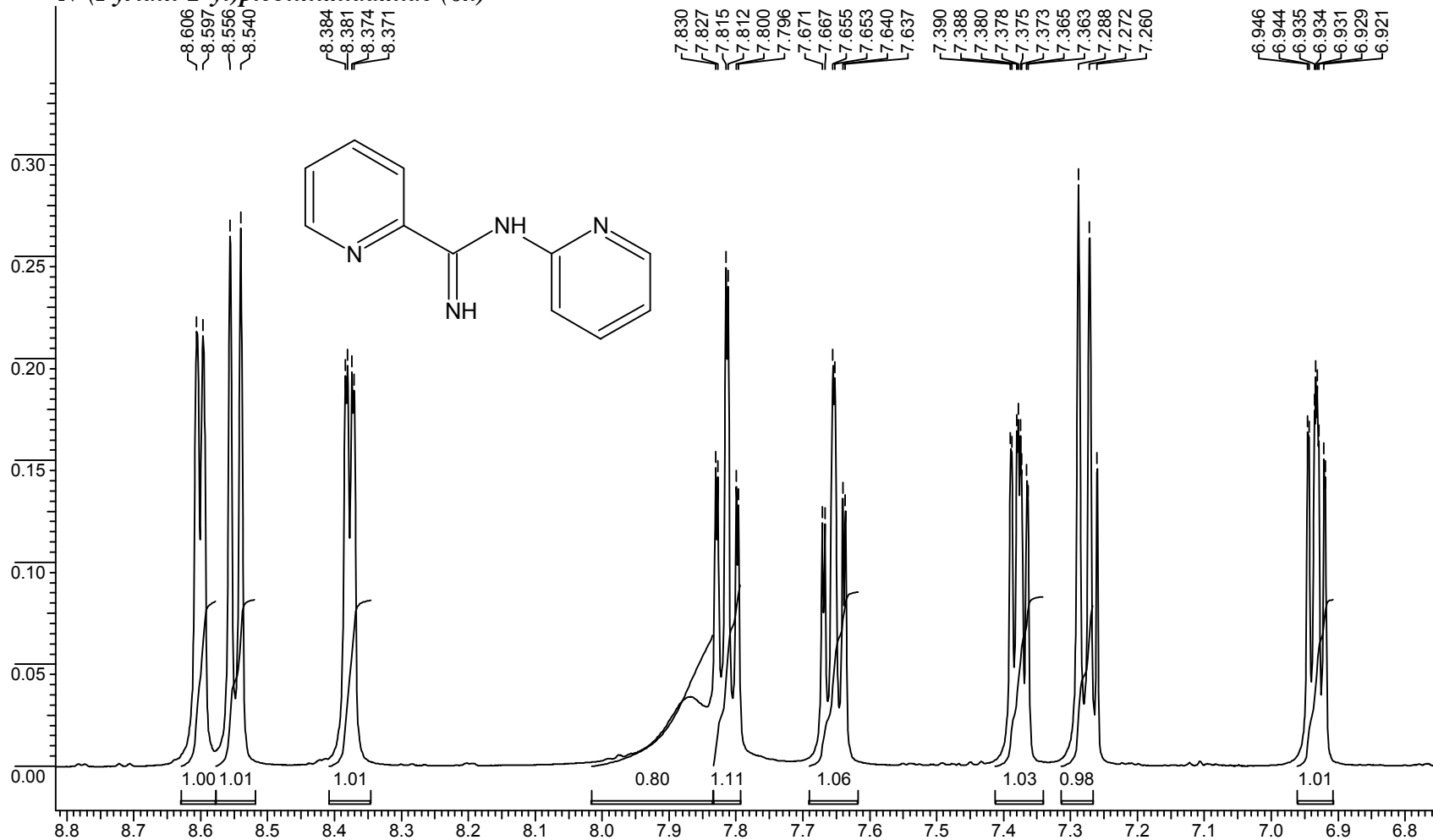
Figure S32. A partially labelled plot of 1,3,7-triphenyl-1,4-dihydro[1,3]oxazolo[4,5-g][1,2,4]benzotriazin-4-yl (**5**). The hydrogen atoms were omitted for clarity.

References

- [1] Oxford Diffraction (2008). CrysAlis CCD and CrysAlis RED, version 1.171.32.15, Oxford Diffraction Ltd, Abingdon, Oxford, England.
- [2] Sheldrick, G. M. "SHELXL97-A program for the refinement of crystal structure", University of Göttingen, Germany.
- [3] Farrugia, L. J. "WinGX suite for single crystal small molecule crystallography", *J. Appl. Crystallogr.*, 1999, **32**, 837.
- [4] Brandenburg, K. 2006, DIAMOND. Version 3.1d. Crystal Impact GbR, Bonn, Germany.

^1H and ^{13}C NMR Spectra for All New Compounds and ^1H NMR Spectra of Known Compounds 13a, 13b, 14 and *N*-(4-nitrophenyl)acetamide Prepared *via* New Routes

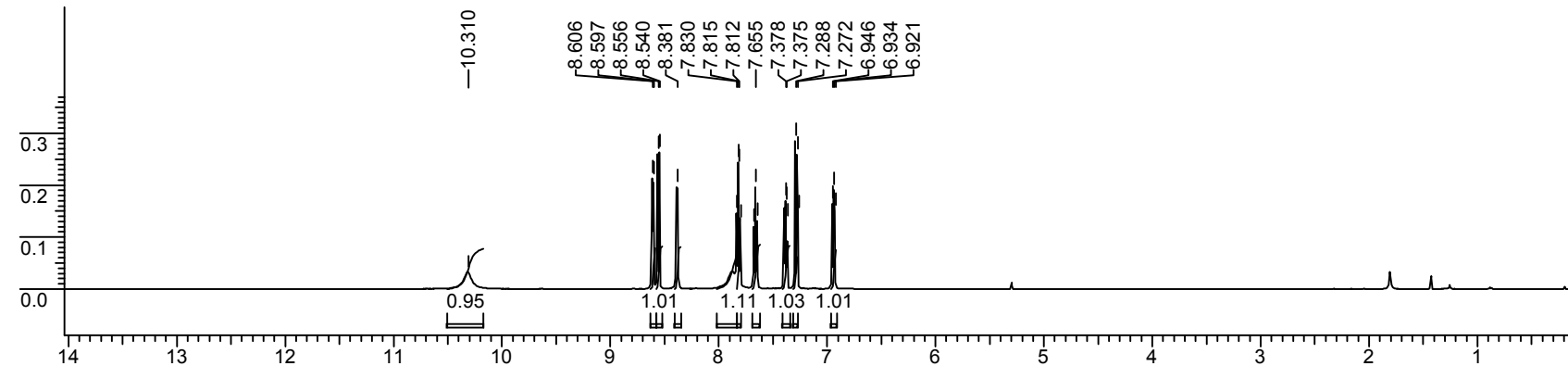
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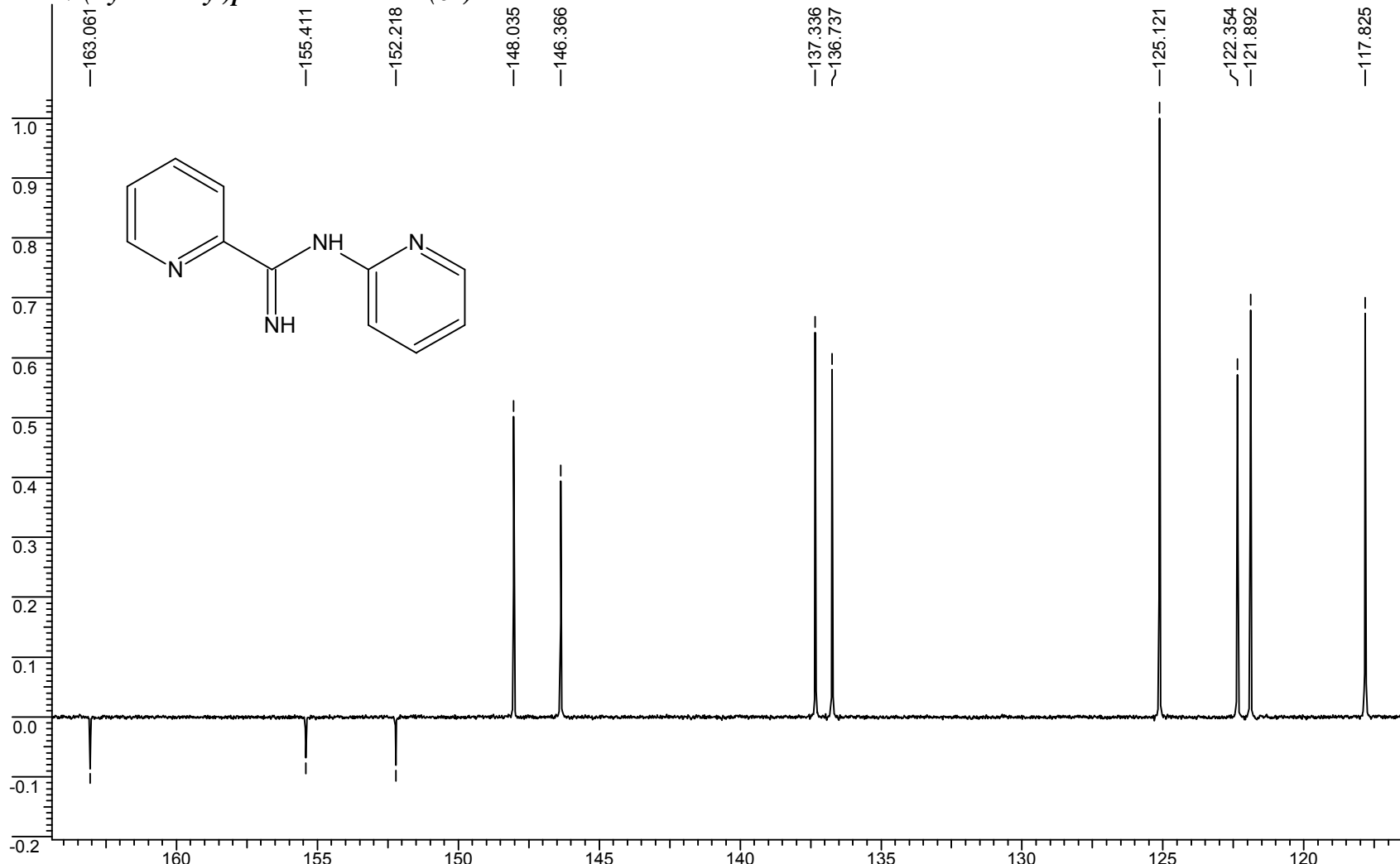
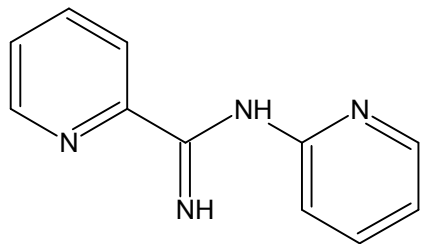
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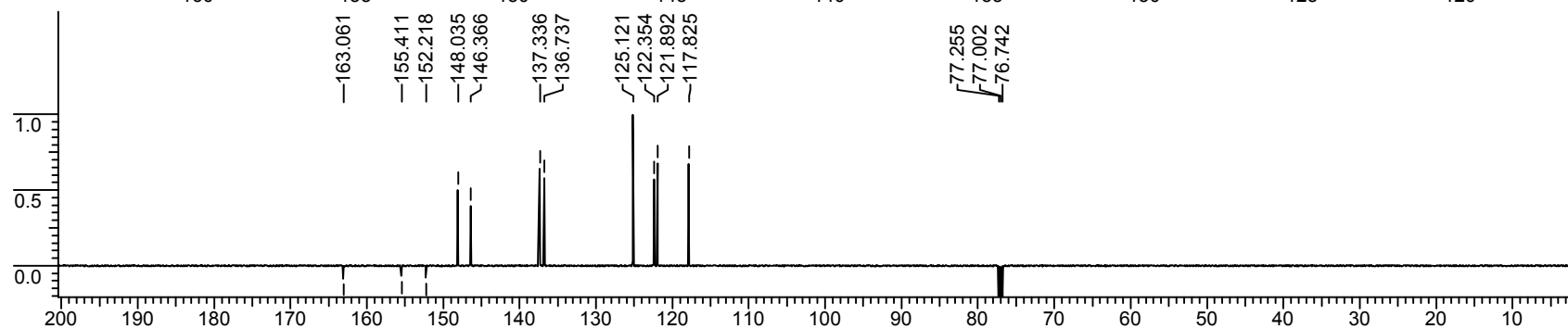
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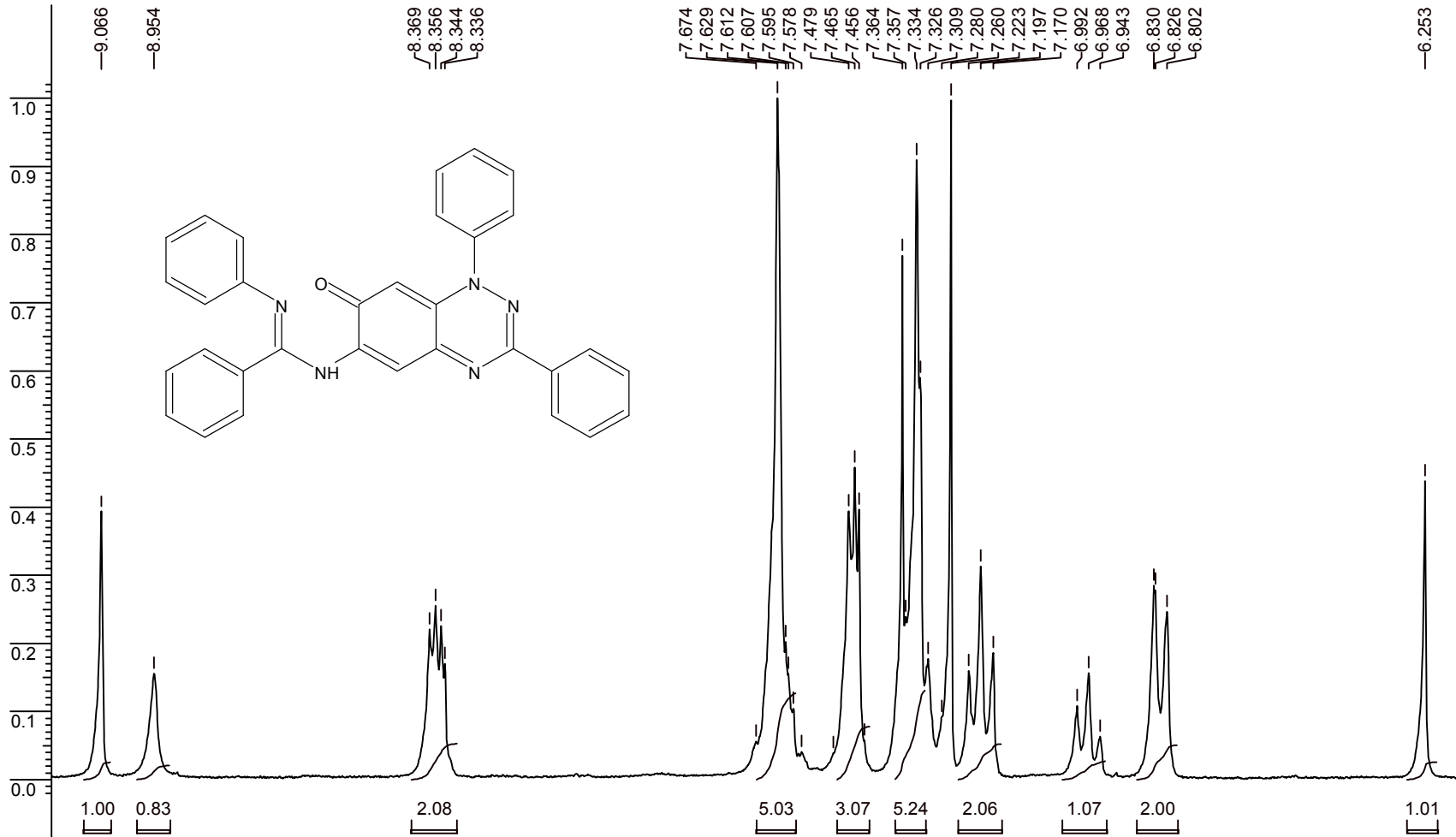
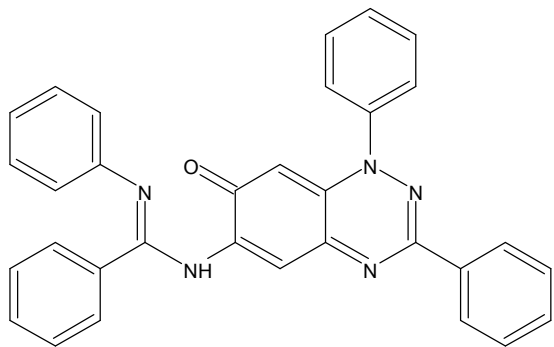
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N-(1,7-Dihydro-7-oxo-1,3-diphenylbenzo[*e*][1,2,4]triazin-6-yl)-*N'*-phenylbenzimidamide (7a)



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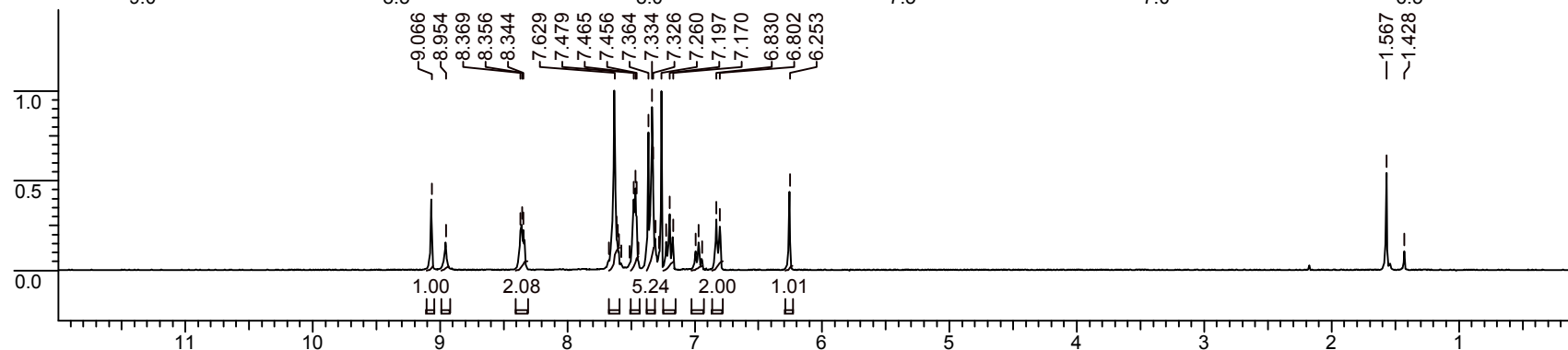
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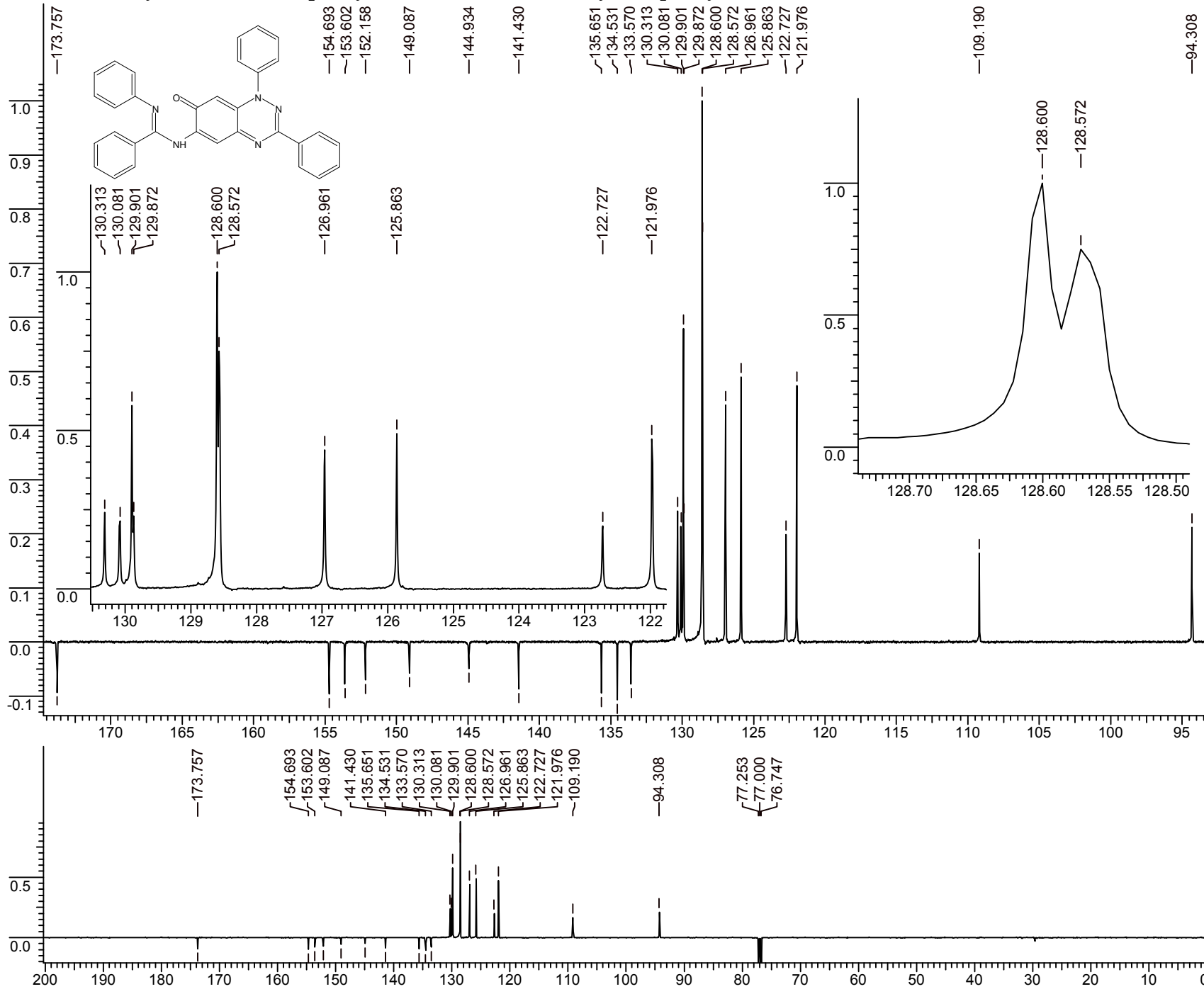
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N-(1,7-Dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)-*N'*-phenylbenzimidamide (7a)



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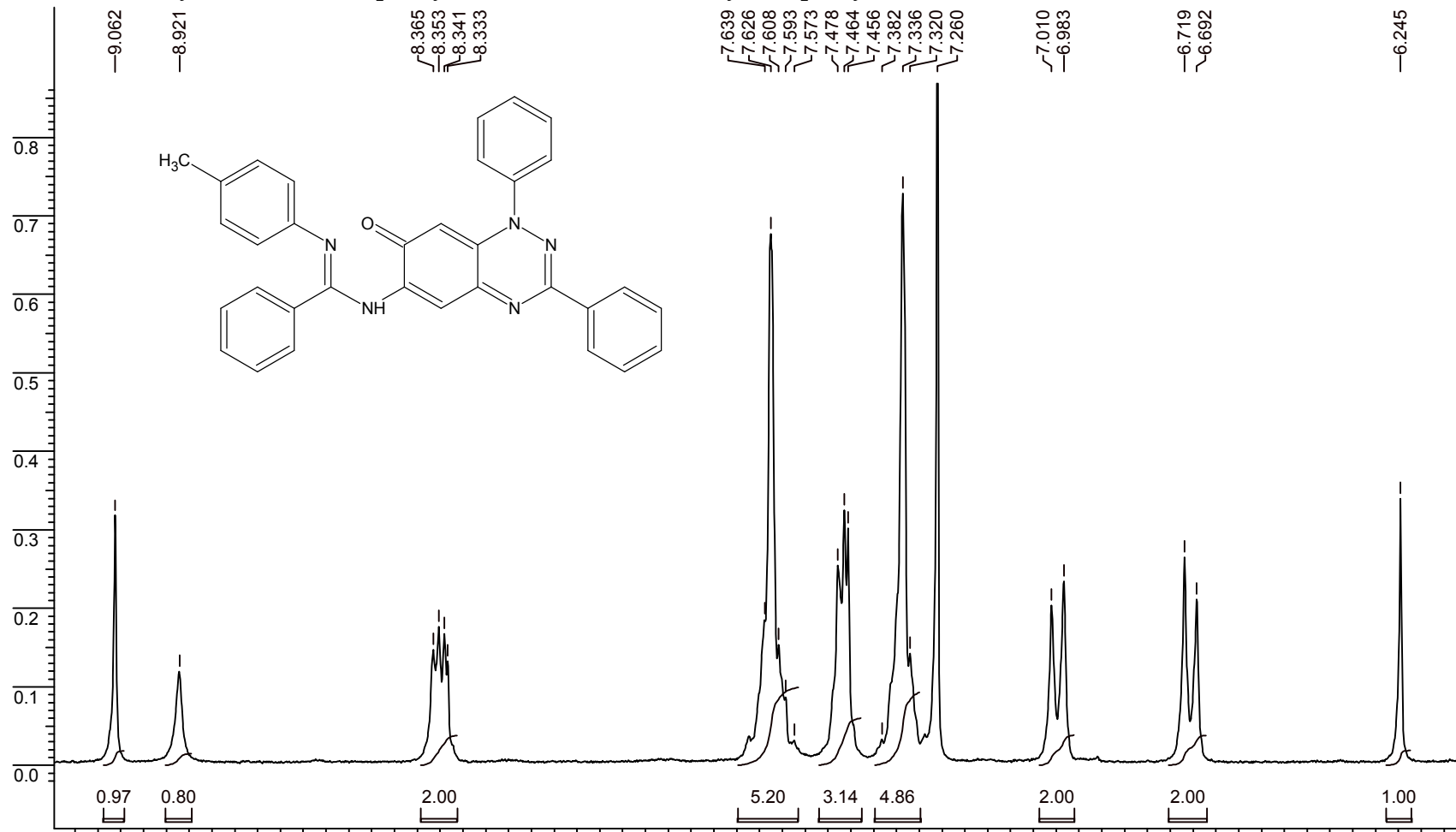
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N-(1,7-Dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)-*N'*-*p*-tolylbenzimidamide (7b)

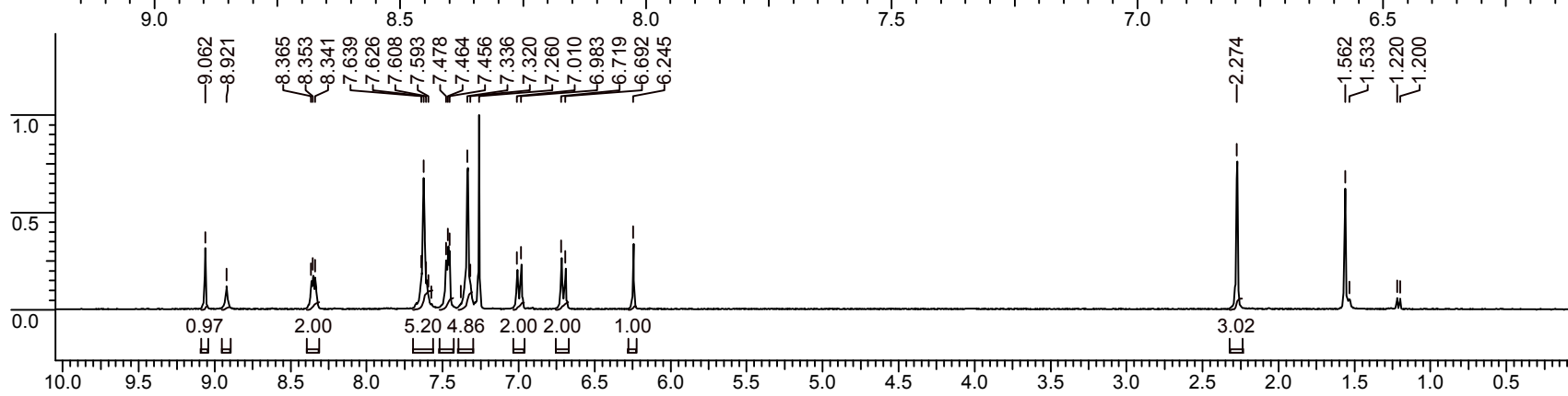


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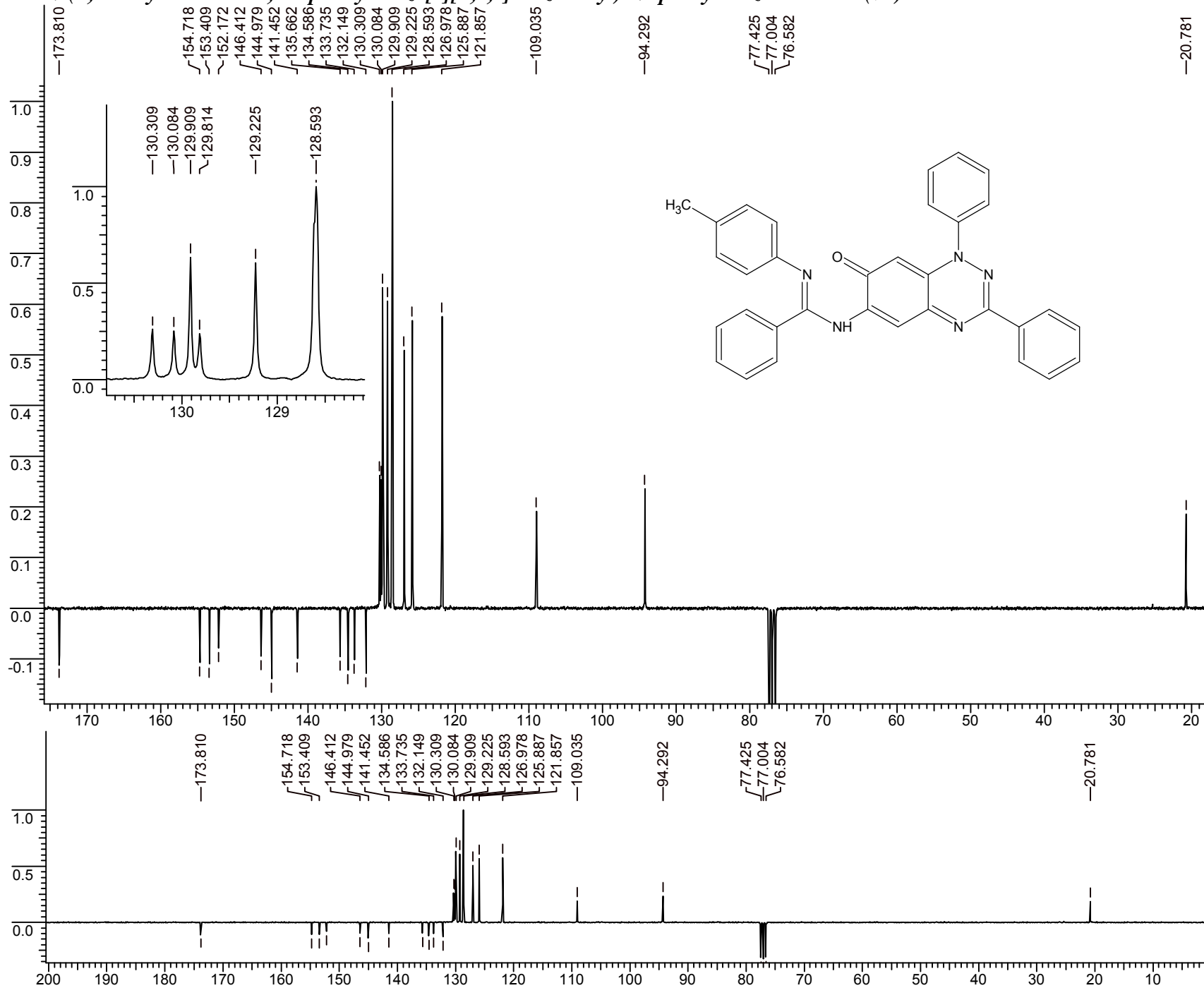
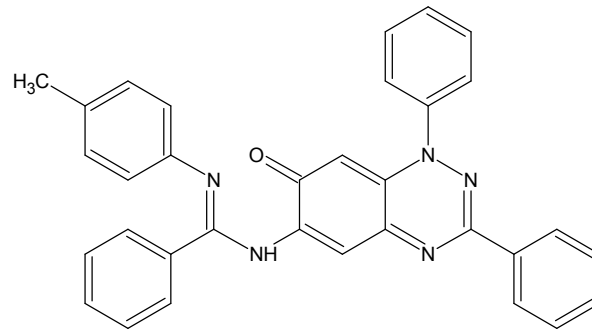
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F1 - Processing parameters
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N-(1,7-Dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)-*N'*-*p*-tolylbenzimidamide (7b)



Current Data Parameters

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SOLVENT CDCl3
NS 6000
DS 4
SWH 17985.611 Hz
FIDRES 0.274439 Hz
AQ 1.8219508 sec
RG 16384
DW 27.800 usec
DE 6.00 usec
TE 297.2 K
CNST2 145.000000
CNST11 1.000000
D1 2.00000000 sec
d20 0.00689655 sec
DELTA 0.00000908 sec
TD0 1

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

NUC1 13C
P1 7.13 usec
p2 14.26 usec
PL1 -2.00 dB
SFO1 75.4752953 MHz

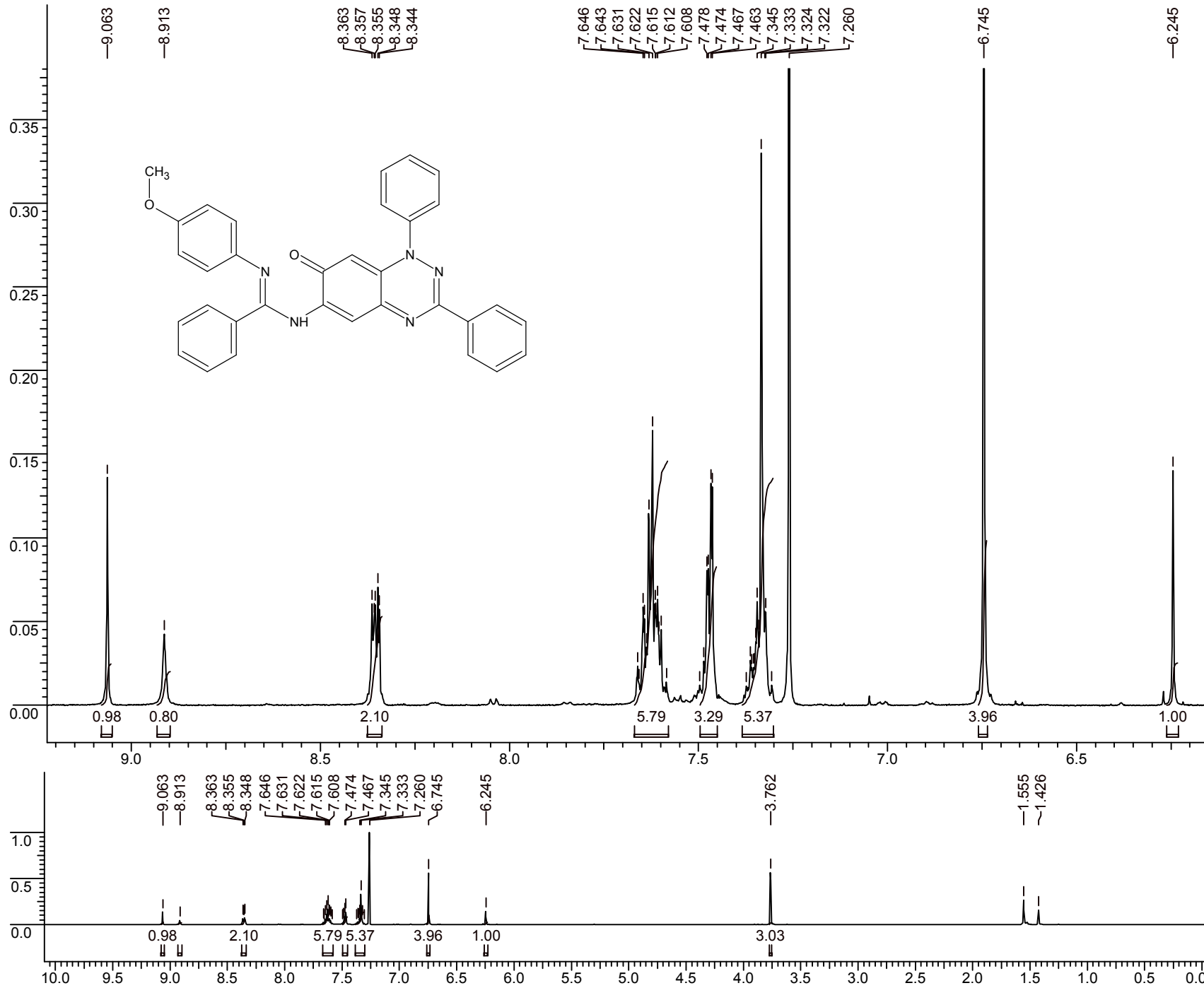
===== CHANNEL f2 =====

CPDPRG2 waltz16
NUC2 1H
PCPD2 110.00 usec
PL2 0.00 dB
PL12 22.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters

SI 32768
SF 75.4677542 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

N-(1,7-Dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)-*N'*-(4-methoxyphenyl)benzimidamide (7c)



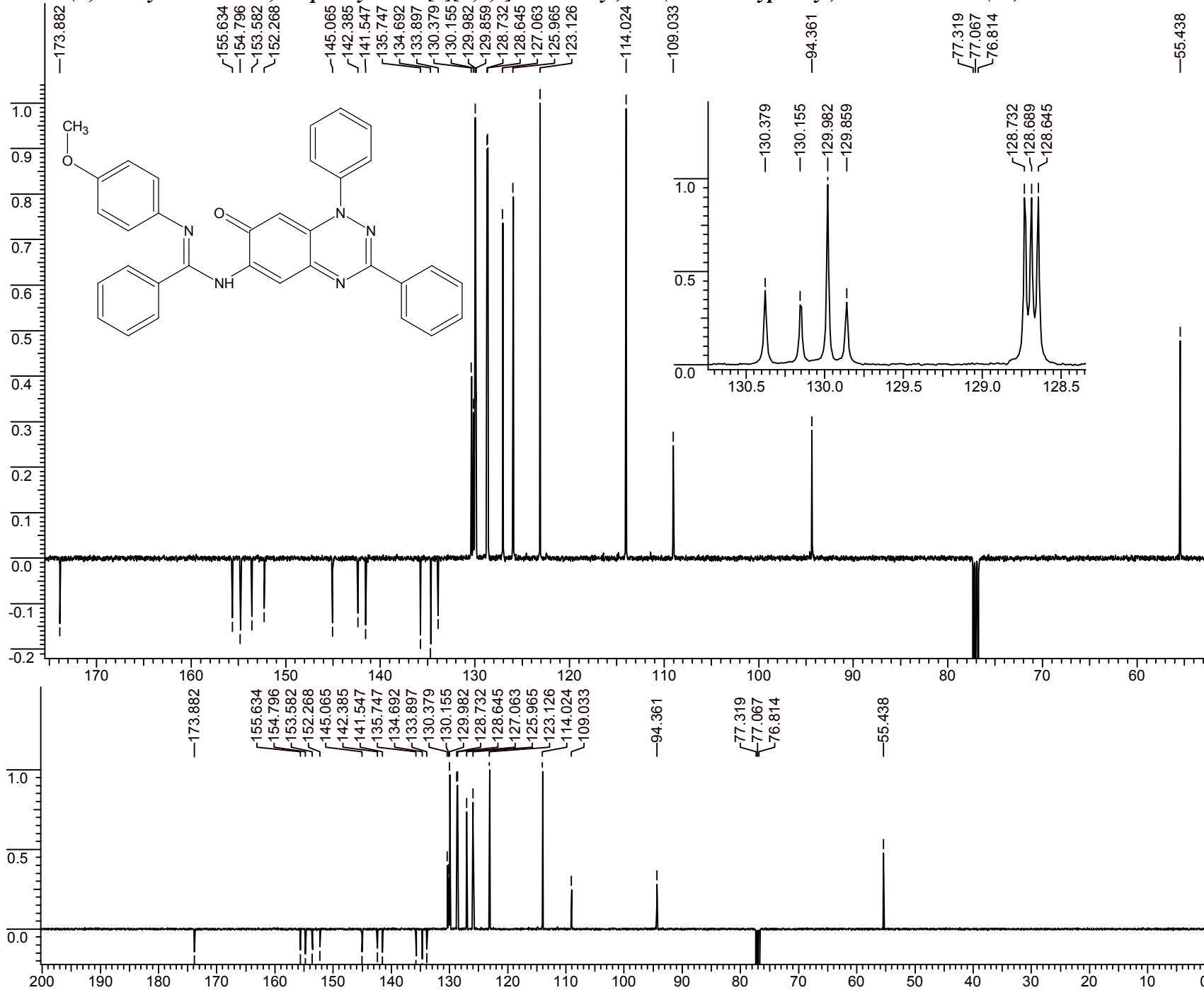
Current Data Parameters
 NAME Andrey
 EXPNO 142
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20121016
 Time 15.16
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 10330.578 Hz
 FIDRES 0.157632 Hz
 AQ 3.1719425 sec
 RG 181
 DW 48.400 usec
 DE 6.50 usec
 TE 296.1 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 500.0361158 MHz
 NUC1 1H
 P1 11.75 usec
 PLW1 15.41699982 W

F2 - Processing parameters
 SI 65536
 SF 500.0330400 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

N-(1,7-Dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)-*N'*-(4-methoxyphenyl)benzimidamide (7c)



Current Data Parameters
 NAME Andrey
 EXPNO 144
 PROCNO 1

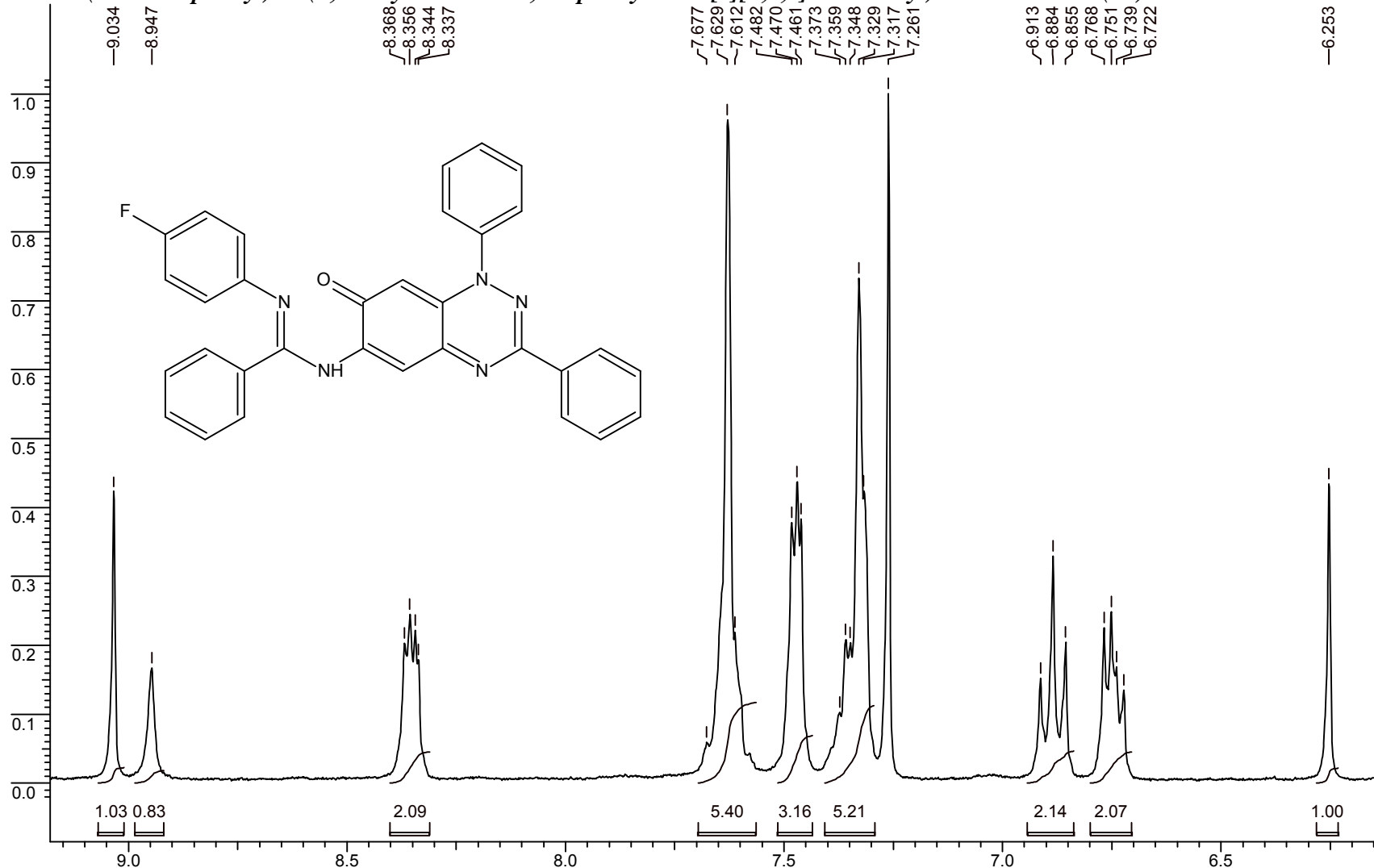
F2 - Acquisition Parameters
 Date_ 20121016
 Time 16.03
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG jmod
 TD 65536
 SOLVENT CDCl₃
 NS 1256
 DS 4
 SWH 29761.904 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010048 sec
 RG 2050
 DW 16.800 usec
 DE 6.50 usec
 TE 297.1 K
 CNST2 145.000000
 CNST11 1.000000
 D1 2.00000000 sec
 D20 0.00689655 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 125.7459782 MHz
 NUC1 13C
 P1 8.70 usec
 P2 17.40 usec
 PLW1 138.00000000 W

===== CHANNEL f2 =====
 SFO2 500.0350280 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 PCPD2 80.00 usec
 PLW2 15.41699982 W
 PLW12 0.33258000 W

F2 - Processing parameters
 SI 32768
 SF 125.7334050 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

N'-(4-Fluorophenyl)-*N*-(1,7-dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)benzimidamide (7d)



Current Data Parameters
 NAME Andrey
 EXPNO 574
 PROCNO 574

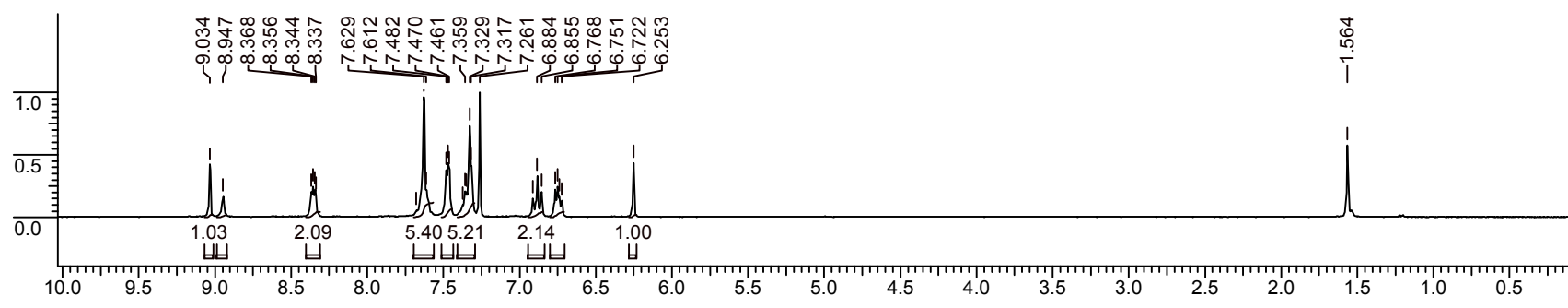
F2 - Acquisition Parameters
 Date_ 20121019
 Time 15.54
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.094190 Hz
 AQ 5.3084660 sec
 RG 322.5
 DW 81.000 usec
 DE 9.00 usec
 TE 296.2 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 9.00 usec
 PL1 0.00 dB
 SFO1 300.1318534 MHz

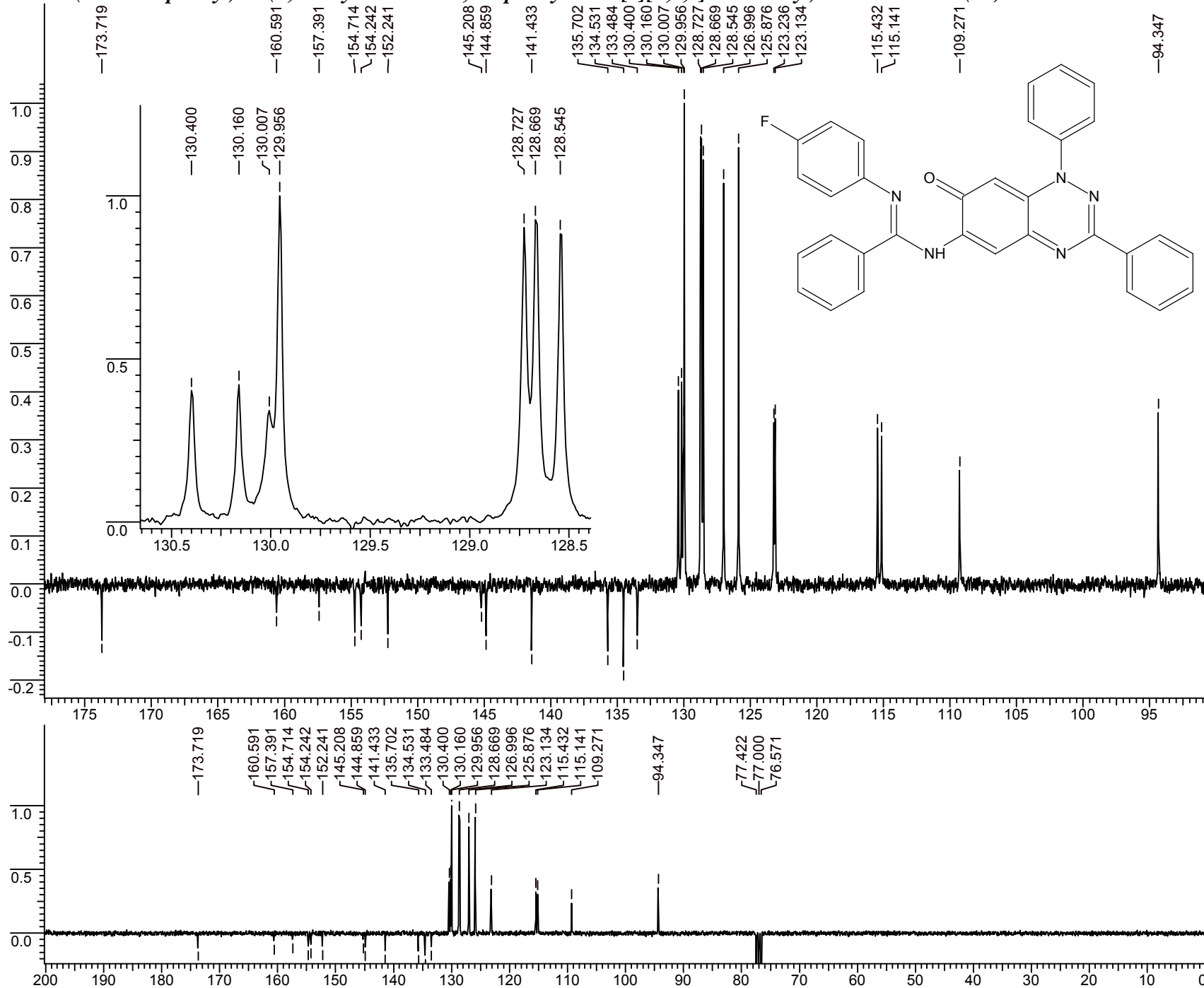
F1 - Acquisition parameters
 ND0 2
 TD 256
 SFO1 300.1314 MHz
 FIDRES 12.056327 Hz
 SW 10.284 ppm
 FnMODE undefined

F2 - Processing parameters
 SI 32768
 SF 300.1300058 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300000 MHz
 WDW SINE
 SSB 0
 LB 0.30 Hz
 GB 0.1



N'-(4-Fluorophenyl)-*N*-(1,7-dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)benzimidamide (7d)



Current Data Parameters
 NAME Andrey
 EXPNO 575
 PROCNO 575

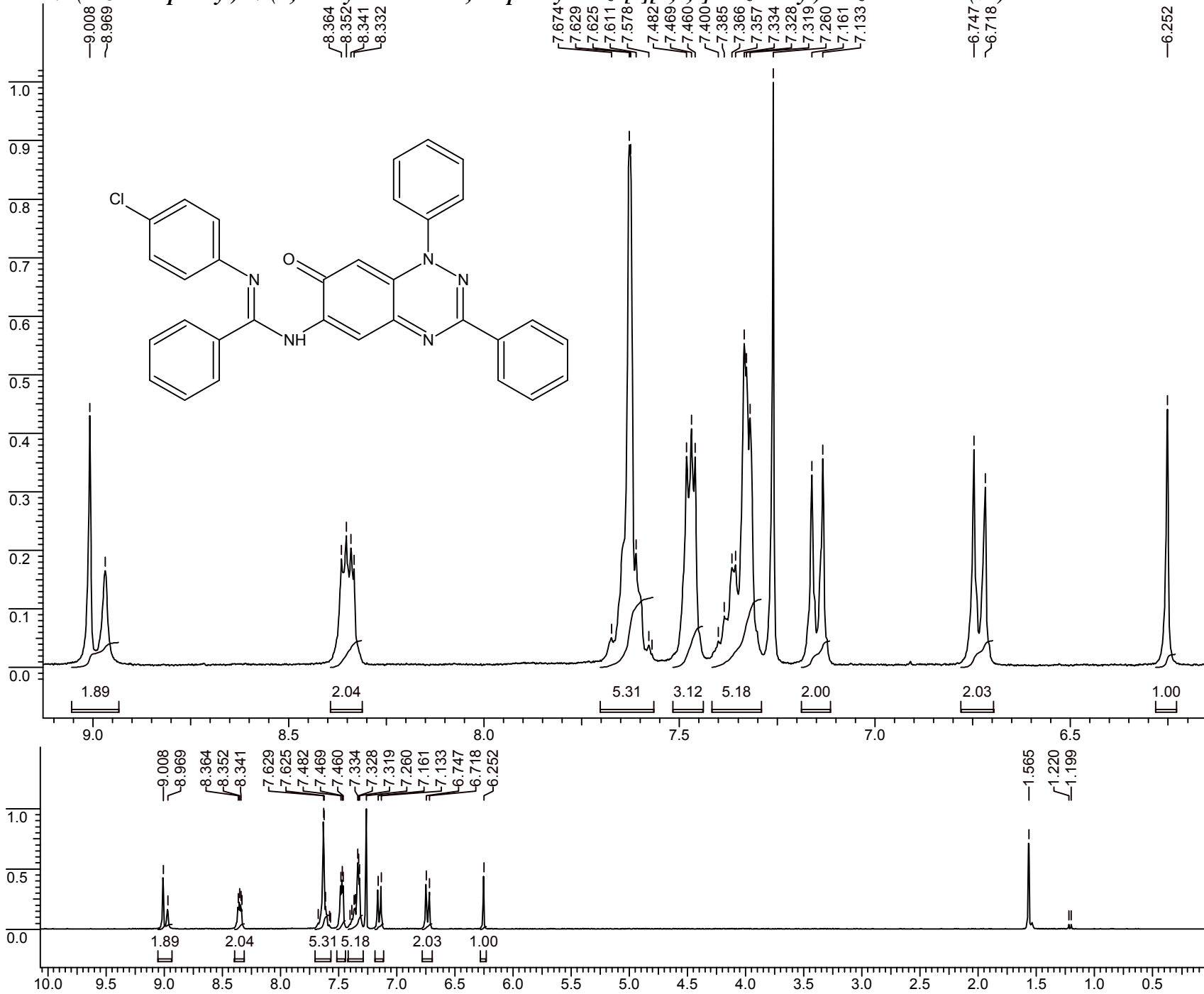
F2 - Acquisition Parameters
 Date_ 20121019
 Time 16.07
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 17985.611 Hz
 FIDRES 0.274439 Hz
 AQ 1.8219508 sec
 RG 4597.6
 DW 27.800 usec
 DE 6.00 usec
 TE 296.2 K
 CNST2 145.0000000
 CNST11 1.0000000
 D1 2.0000000 sec
 d20 0.00689655 sec
 DELTA 0.00000908 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 7.13 usec
 p2 14.26 usec
 PL1 -2.00 dB
 SFO1 75.4752953 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 110.00 usec
 PL2 0.00 dB
 PL12 22.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4677524 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

N'-(4-Chlorophenyl)-*N*-(1,7-dihydro-7-oxo-1,3-diphenylbenzo[*e*][1,2,4]triazin-6-yl)benzimidamide (7e)



Current Data Parameters
 NAME Andrey
 EXPNO 577
 PROCNO 577

F2 - Acquisition Parameters
 Date_ 20121024
 Time 20.09
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.094190 Hz
 AQ 5.3084660 sec
 RG 322.5
 DW 81.000 usec
 DE 9.00 usec
 TE 296.2 K
 D1 1.00000000 sec
 TD0 1

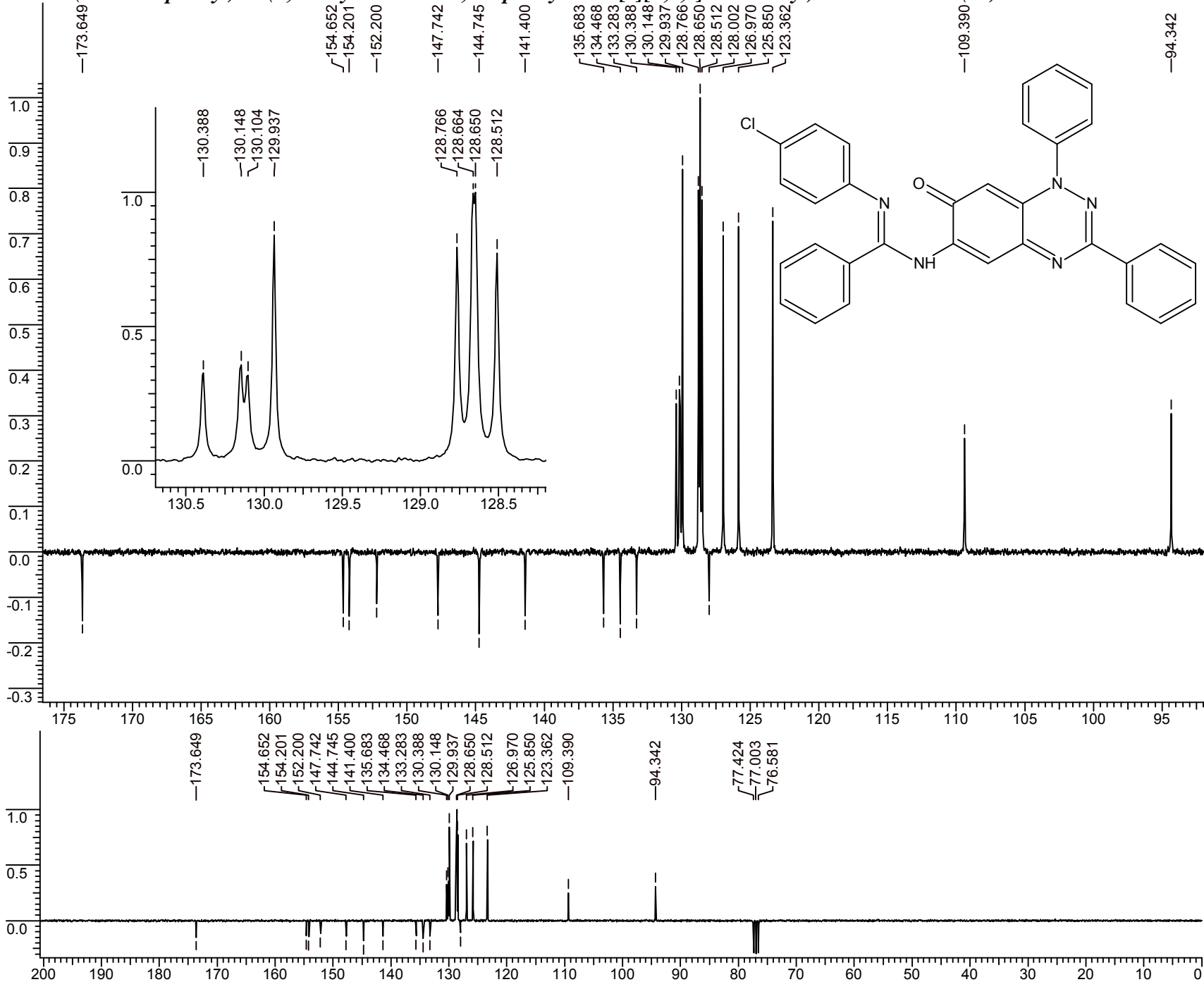
===== CHANNEL f1 =====
 NUC1 1H
 P1 9.00 usec
 PL1 0.00 dB
 SFO1 300.1318534 MHz

F1 - Acquisition parameters
 ND0 2
 TD 256
 SFO1 300.1314 MHz
 FIDRES 12.056327 Hz
 SW 10.284 ppm
 FnMODE undefined

F2 - Processing parameters
 SI 32768
 SF 300.1300060 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300000 MHz
 WDW SINE
 SSB 0
 LB 0.30 Hz
 GB 0.1

N'-(4-Chlorophenyl)-*N*-(1,7-dihydro-7-oxo-1,3-diphenylbenzo[*e*][1,2,4]triazin-6-yl)benzimidamide (7e)



Current Data Parameters

NAME Andrey
 EXPNO 578
 PROCNO 578

F2 - Acquisition Parameters

Date_ 20121024
 Time 20.16
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 17985.611 Hz
 FIDRES 0.274439 Hz
 AQ 1.8219508 sec
 RG 16384
 DW 27.800 usec
 DE 6.00 usec
 TE 296.2 K
 CNST2 145.0000000
 CNST11 1.0000000
 D1 2.00000000 sec
 d20 0.00689655 sec
 DELTA 0.00000908 sec
 TD0 1

==== CHANNEL f1 =====

NUC1 13C
 P1 7.13 usec
 p2 14.26 usec
 PL1 -2.00 dB
 SFO1 75.4752953 MHz

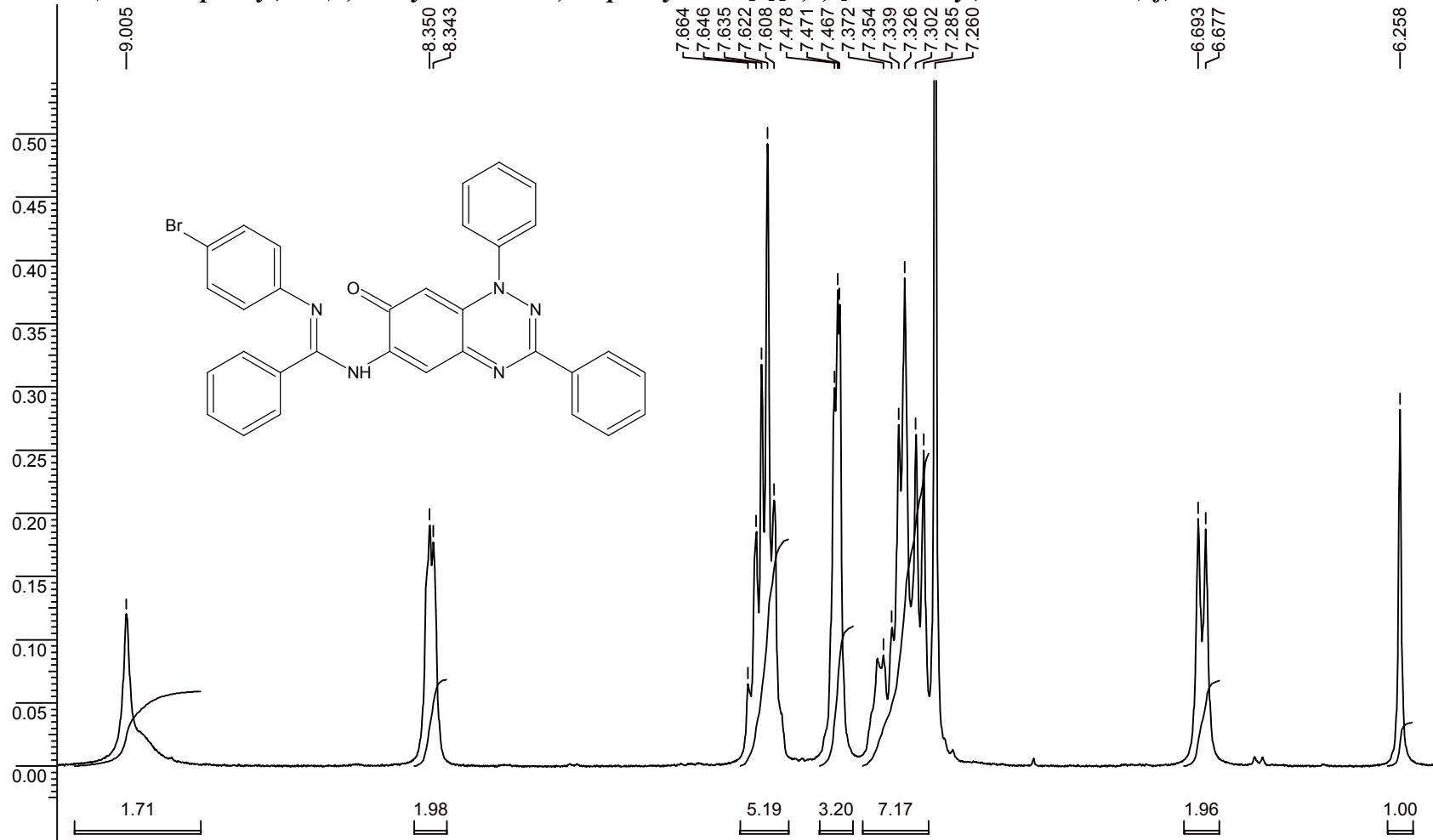
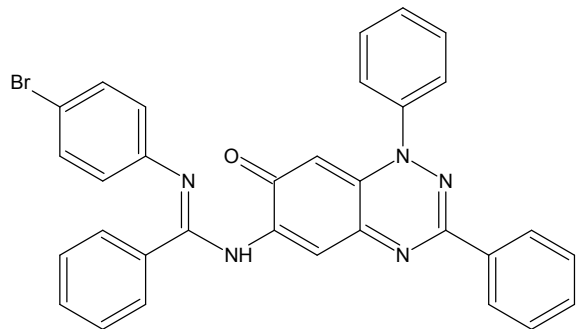
==== CHANNEL f2 =====

CPDPRG2 waltz16
 NUC2 1H
 PCPD2 110.00 usec
 PL2 0.00 dB
 PL12 22.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters

SI 32768
 SF 75.4677532 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

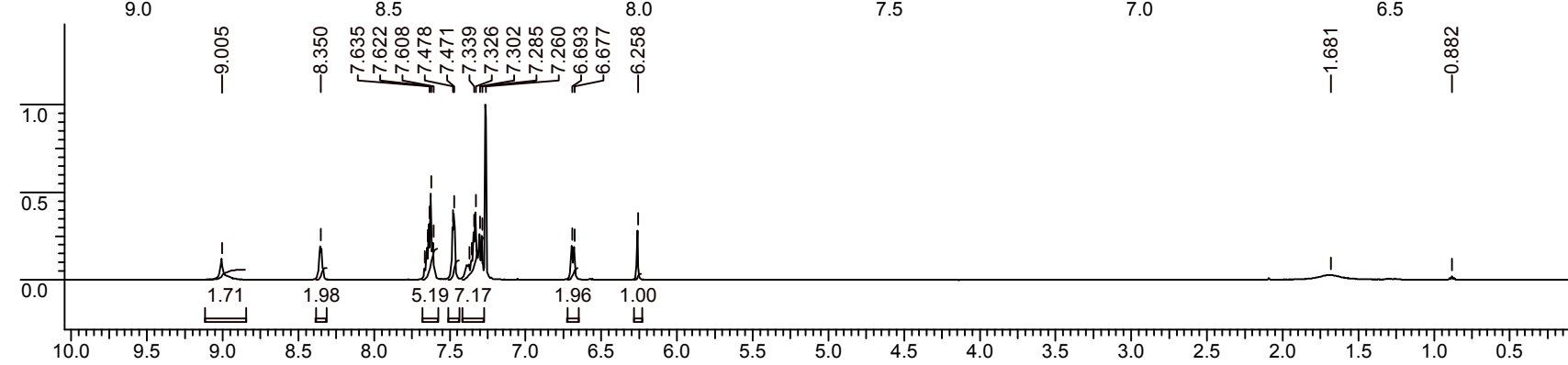
N'-(4-Bromophenyl)-*N*-(1,7-dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)benzamide (7f)



Current Data Parameters
 NAME Andrey
 EXPNO 145
 PROCNO 1

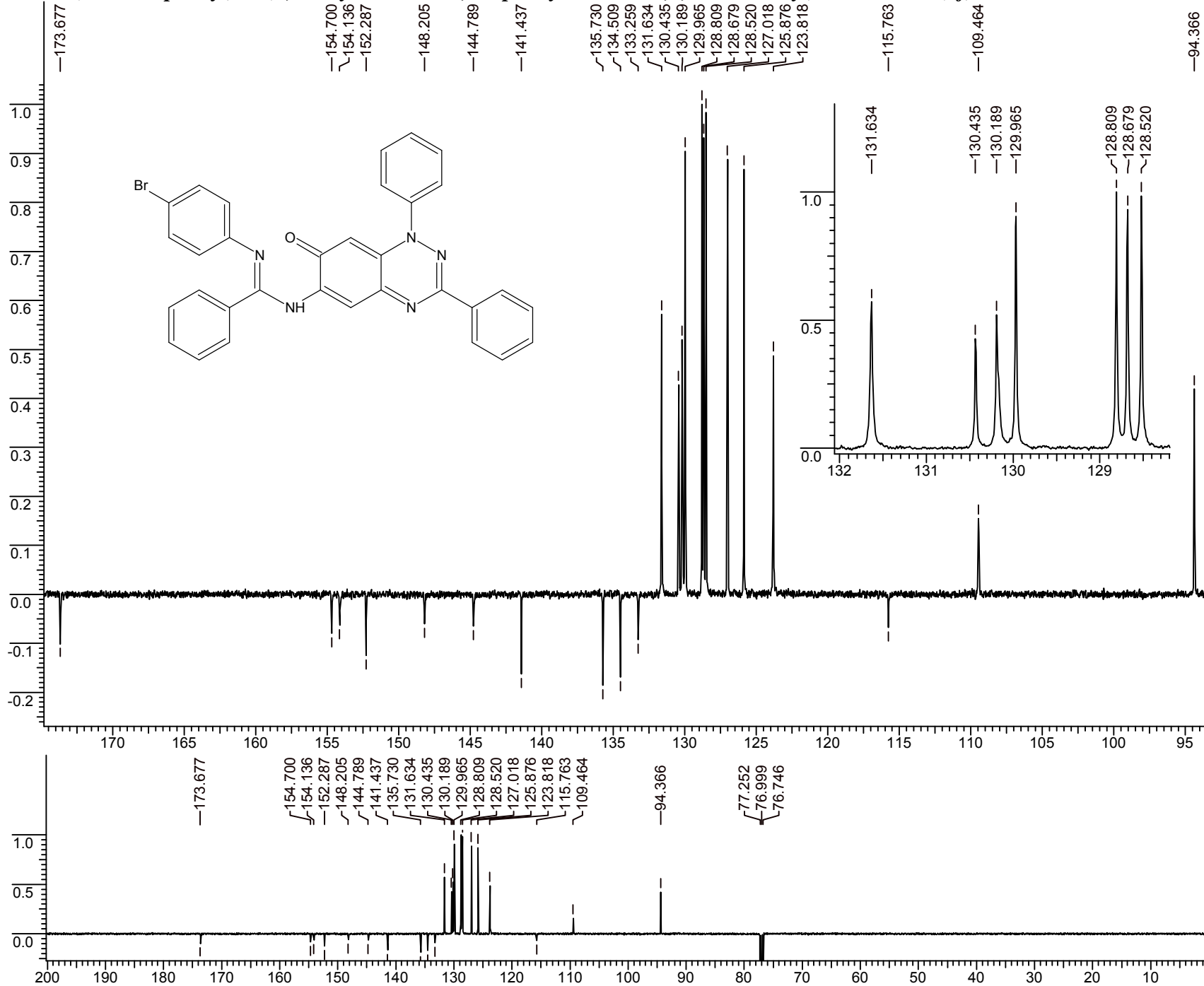
F2 - Acquisition Parameters
 Date_ 20121016
 Time 19.44
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 10330.578 Hz
 FIDRES 0.157632 Hz
 AQ 3.1719425 sec
 RG 161
 DW 48.400 usec
 DE 6.50 usec
 TE 296.6 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 500.0361158 MHz
 NUC1 1H
 P1 11.75 usec
 PLW1 15.41699982 W



F2 - Processing parameters
 SI 65536
 SF 500.0330400 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

N'-(4-Bromophenyl)-*N*-(1,7-dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)benzamide (7f)



Current Data Parameters
 NAME Andrey
 EXPNO 147
 PROCNO 1

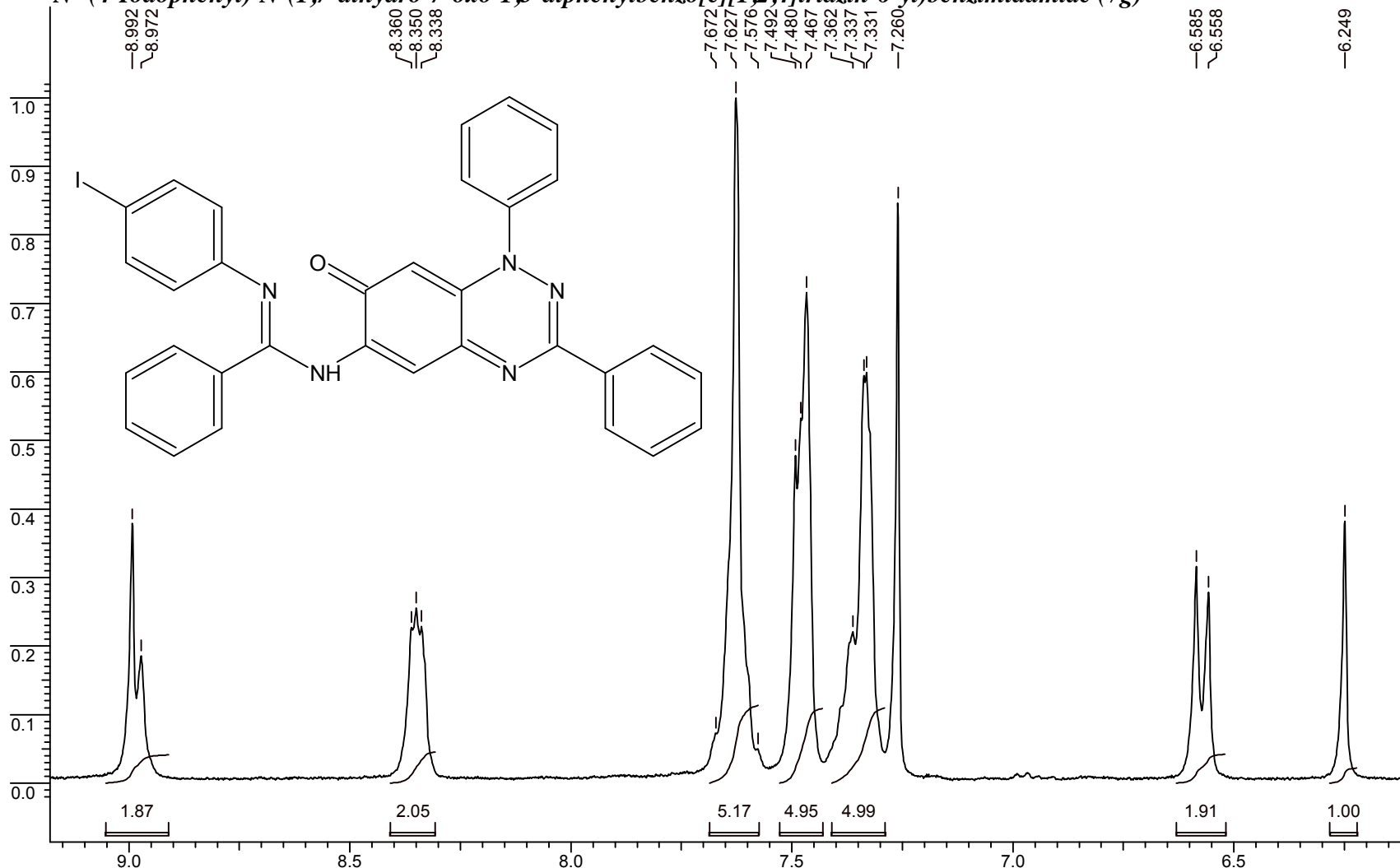
F2 - Acquisition Parameters
 Date_ 20121016
 Time 21.14
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 2400
 DS 4
 SWH 29761.904 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010048 sec
 RG 2050
 DW 16.800 usec
 DE 6.50 usec
 TE 298.1 K
 CNST2 145.0000000
 CNST11 1.0000000
 D1 2.00000000 sec
 D20 0.00689655 sec
 TD0 1

==== CHANNEL f1 =====
 SFO1 125.7459782 MHz
 NUC1 13C
 P1 8.70 usec
 P2 17.40 usec
 PLW1 138.0000000 W

==== CHANNEL f2 =====
 SFO2 500.0350280 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 PCPD2 80.00 usec
 PLW2 15.41699982 W
 PLW12 0.33258000 W

F2 - Processing parameters
 SI 32768
 SF 125.7334098 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

N'-(4-Iodophenyl)-*N*-(1,7-dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)benzimidamide (7g)



Current Data Parameters

NAME Andrey
EXPNO 579
PROCNO 579

F2 - Acquisition Parameters

Date_ 20121027
Time 22.45
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 6172.839 Hz
FIDRES 0.094190 Hz
AQ 5.3084660 sec
RG 322.5
DW 81.000 usec
DE 9.00 usec
TE 296.2 K
D1 1.00000000 sec
TD0 1

==== CHANNEL f1 =====

NUC1 1H
P1 9.00 usec
PL1 0.00 dB
SFO1 300.1318534 MHz

F1 - Acquisition parameters

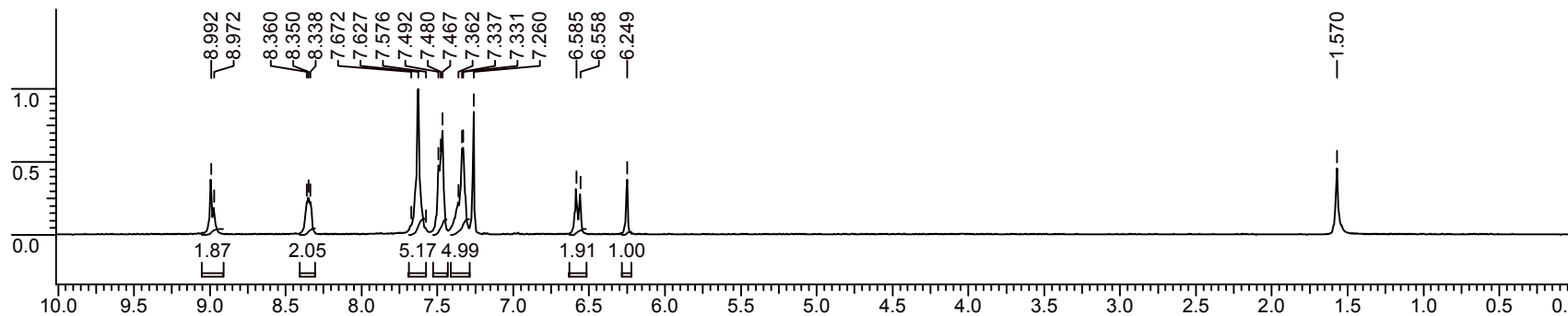
ND0 2
TD 256
SFO1 300.1314 MHz
FIDRES 12.056327 Hz
SW 10.284 ppm
FnMODE undefined

F2 - Processing parameters

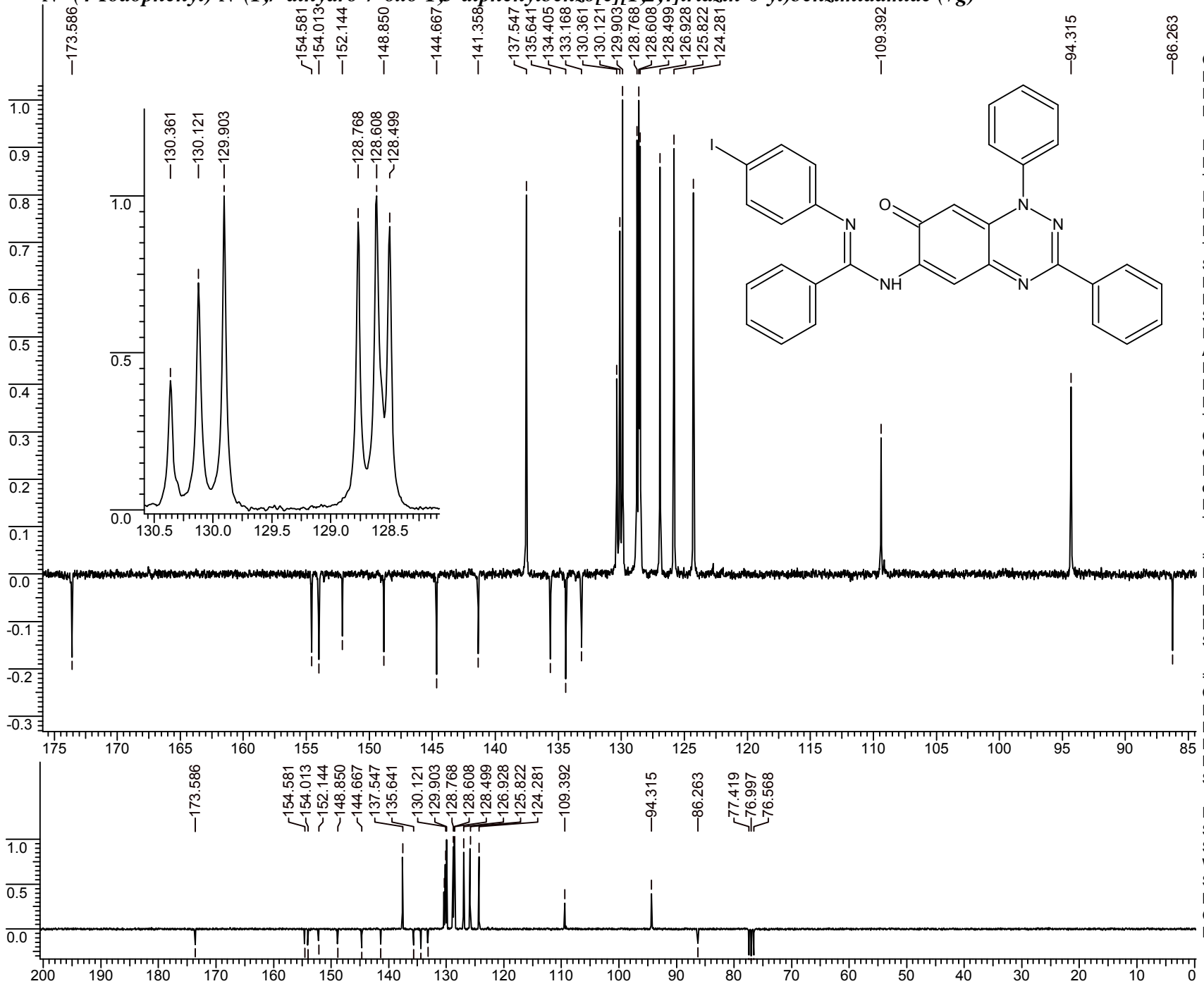
SI 32768
SF 300.1300057 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

F1 - Processing parameters

SI 1024
MC2 QF
SF 300.1300000 MHz
WDW SINE
SSB 0
LB 0.30 Hz
GB 0.1



N'-(4-Iodophenyl)-*N*-(1,7-dihydro-7-oxo-1,3-diphenylbenzo[*e*][1,2,4]triazin-6-yl)benzimidamide (7g)



Current Data Parameters

NAME Andrey
 EXPNO 580
 PROCNO 580

F2 - Acquisition Parameters

Date_ 20121027
 Time 22.52
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 17985.611 Hz
 FIDRES 0.274439 Hz
 AQ 1.8219508 sec
 RG 16384
 DW 27.800 usec
 DE 6.00 usec
 TE 296.2 K
 CNST2 145.000000
 CNST11 1.000000
 D1 2.0000000 sec
 d20 0.00689655 sec
 DELTA 0.00000908 sec
 TD0 1

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

NUC1 13C
 P1 7.13 usec
 p2 14.26 usec
 PL1 -2.00 dB
 SFO1 75.4752953 MHz

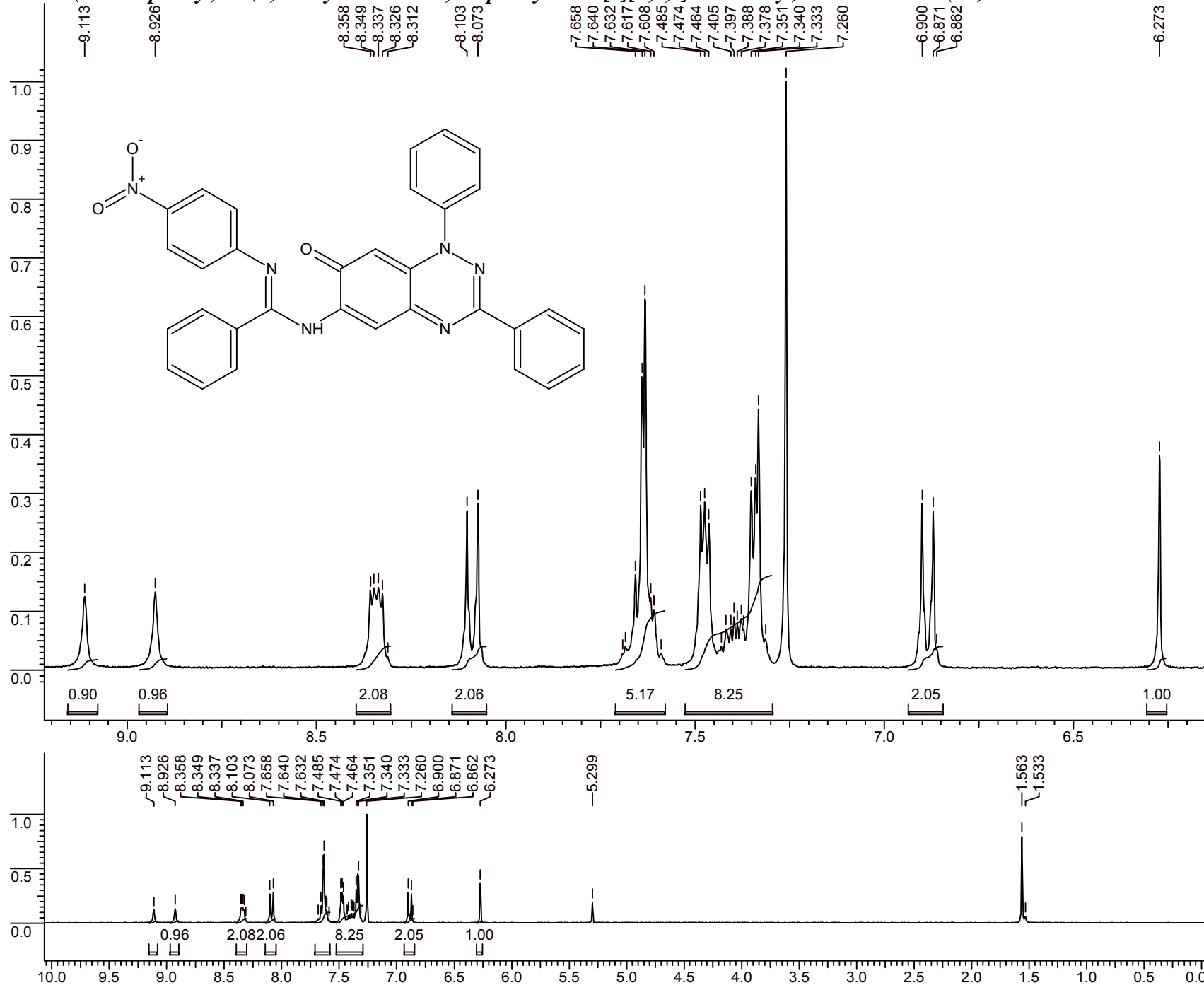
===== CHANNEL f2 =====

CPDPRG2 waltz16
 NUC2 1H
 PCPD2 110.00 usec
 PL2 0.00 dB
 PL12 22.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters

SI 32768
 SF 75.4677552 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

N'-(4-Nitrophenyl)-*N*-(1,7-dihydro-7-oxo-1,3-diphenylbenzo[*e*][1,2,4]triazin-6-yl)benzimidamide (7h)



Current Data Parameters
 NAME Andrey
 EXPNO 581
 PROCNO 581

F2 - Acquisition Parameters
 Date_ 20121029
 Time 22.43
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.094190 Hz
 AQ 5.3084660 sec
 RG 456.1
 DW 81.000 usec
 DE 9.00 usec
 TE 296.2 K
 D1 1.00000000 sec
 TD0 1

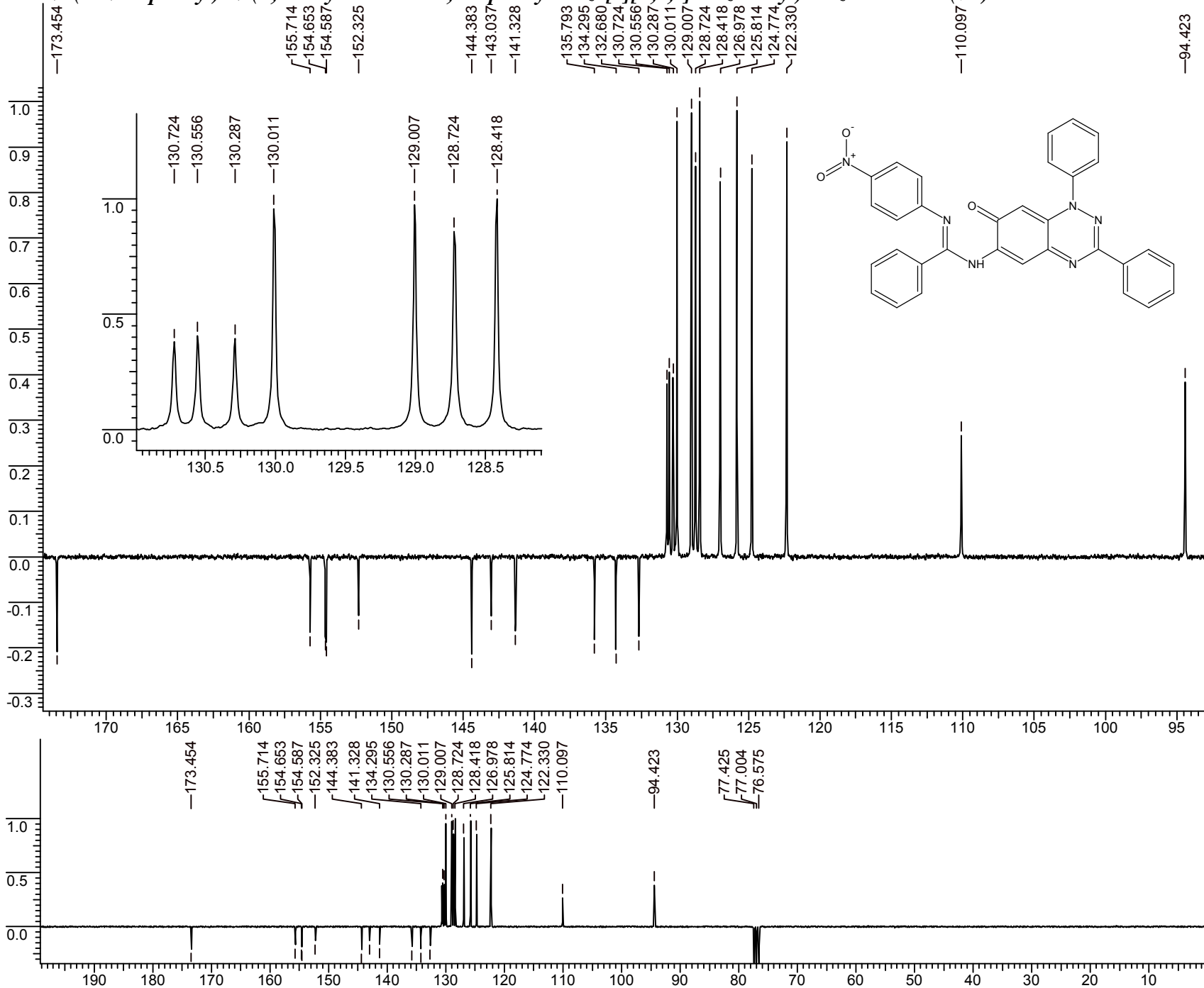
===== CHANNEL f1 =====
 NUC1 1H
 P1 9.00 usec
 PL1 0.00 dB
 SFO1 300.1318534 MHz

F1 - Acquisition parameters
 ND0 2
 TD 256
 SFO1 300.1314 MHz
 FIDRES 12.056327 Hz
 SW 10.284 ppm
 FnMODE undefined

F2 - Processing parameters
 SI 32768
 SF 300.1300064 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300000 MHz
 WDW SINE
 SSB 0
 LB 0.30 Hz
 GB 0.1

N'-(4-Nitrophenyl)-*N*-(1,7-dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)benzimidamide (7h)



Current Data Parameters

NAME Andrey
EXPNO 582
PROCNO 582

F2 - Acquisition Parameters

Date_ 20121029
Time 22.57
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG jmod
TD 65536
SOLVENT CDCl3
NS 8611
DS 4
SWH 17985.611 Hz
FIDRES 0.274439 Hz
AQ 1.8219508 sec
RG 16384
DW 27.800 usec
DE 6.00 usec
TE 296.2 K
CNST2 145.000000
CNST11 1.000000
D1 2.00000000 sec
d20 0.00689655 sec
DELTA 0.00000908 sec
TD0 1

==== CHANNEL f1 =====

NUC1 13C
P1 7.13 usec
p2 14.26 usec
PL1 -2.00 dB
SFO1 75.4752953 MHz

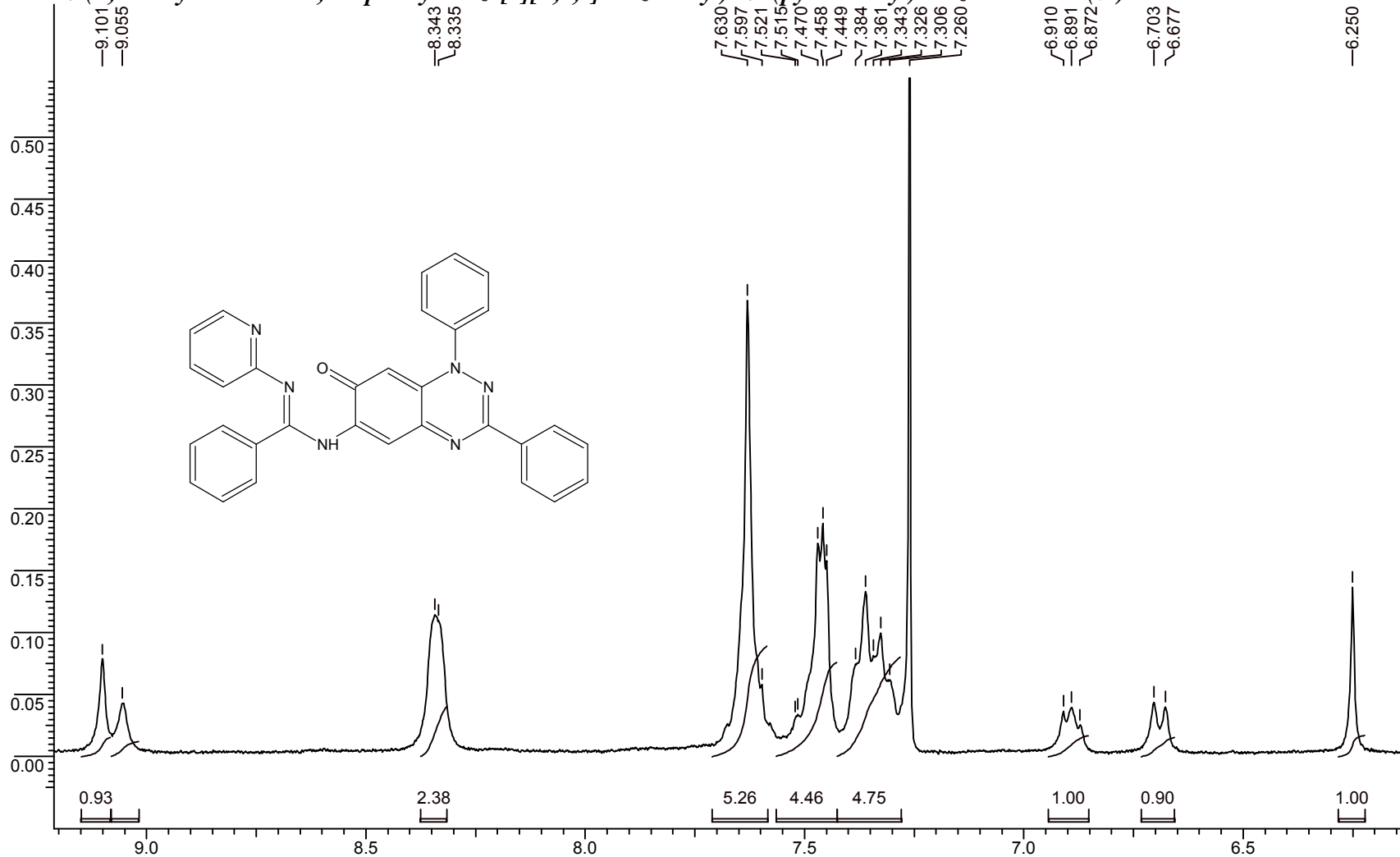
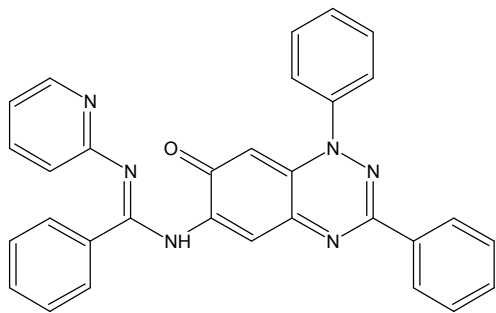
==== CHANNEL f2 =====

CPDPRG2 waltz16
NUC2 1H
PCPD2 110.00 usec
PL2 0.00 dB
PL12 22.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters

SI 32768
SF 75.4677520 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

N-(1,7-Dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)-*N'*-(pyridin-2-yl)benzimidamide (7i)



Current Data Parameters
 NAME Andrey
 EXPNO 619
 PROCNO 619

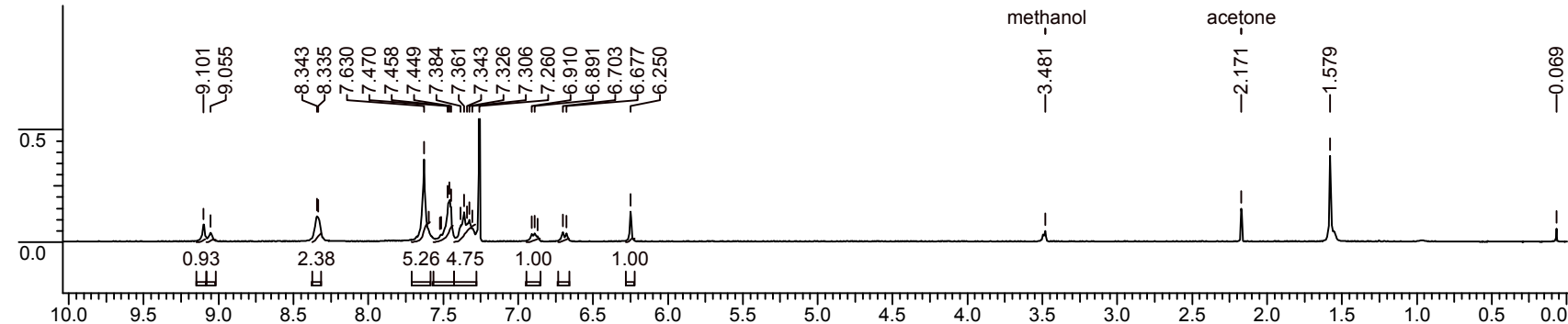
F2 - Acquisition Parameters
 Date_ 20121226
 Time 12.13
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.094190 Hz
 AQ 5.3084660 sec
 RG 574.7
 DW 81.000 usec
 DE 9.00 usec
 TE 297.2 K
 D1 1.0000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 9.00 usec
 PL1 0.00 dB
 SFO1 300.1318534 MHz

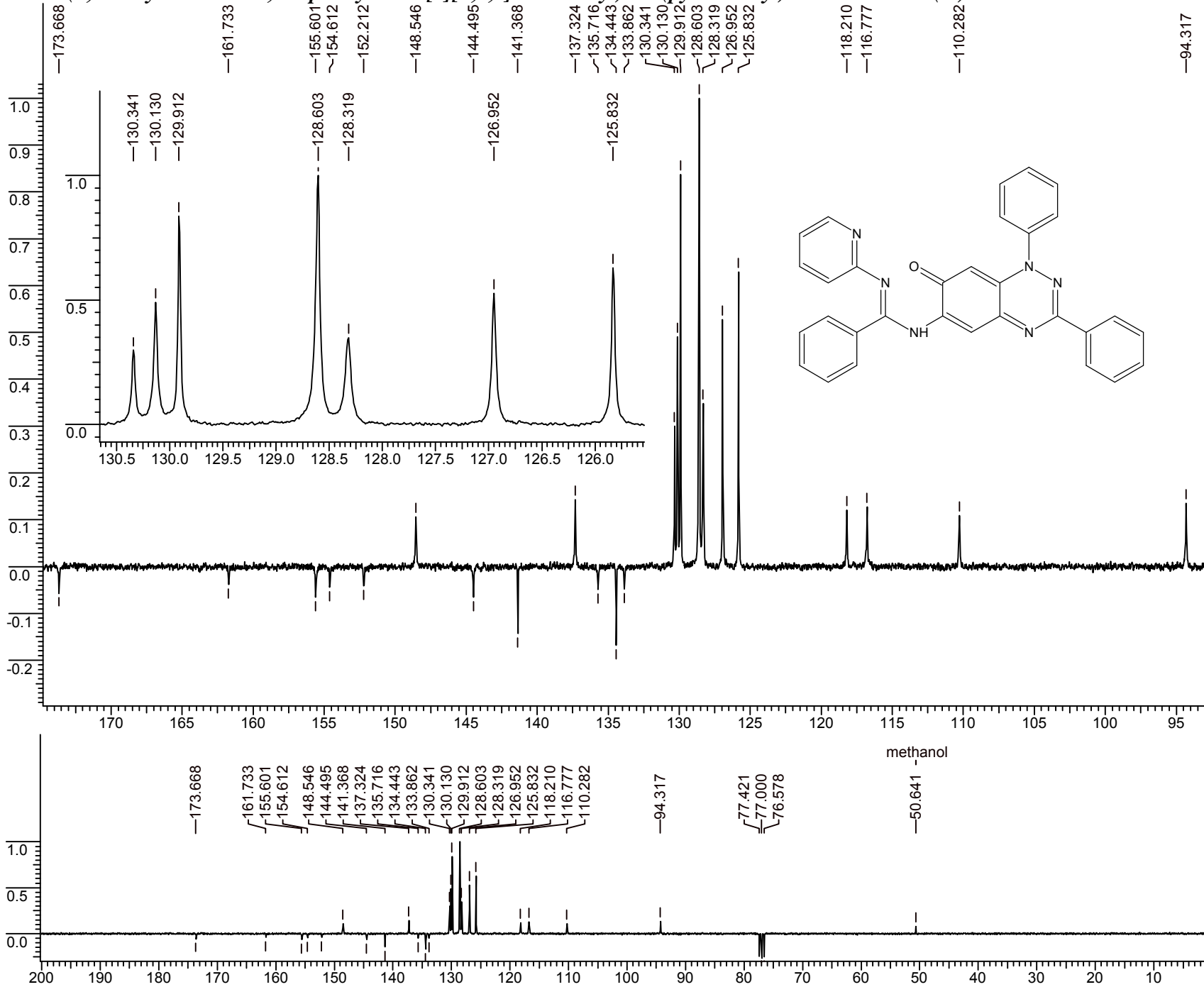
F1 - Acquisition parameters
 ND0 2
 TD 256
 SFO1 300.1314 MHz
 FIDRES 12.056327 Hz
 SW 10.284 ppm
 FnMODE undefined

F2 - Processing parameters
 SI 32768
 SF 300.1300060 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300000 MHz
 WDW SINE
 SSB 0
 LB 0.30 Hz
 GB 0.1



N-(1,7-Dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)-*N'*-(pyridin-2-yl)benzimidamide (7i)



Current Data Parameters
 NAME Andrey
 EXPNO 594
 PROCNO 594

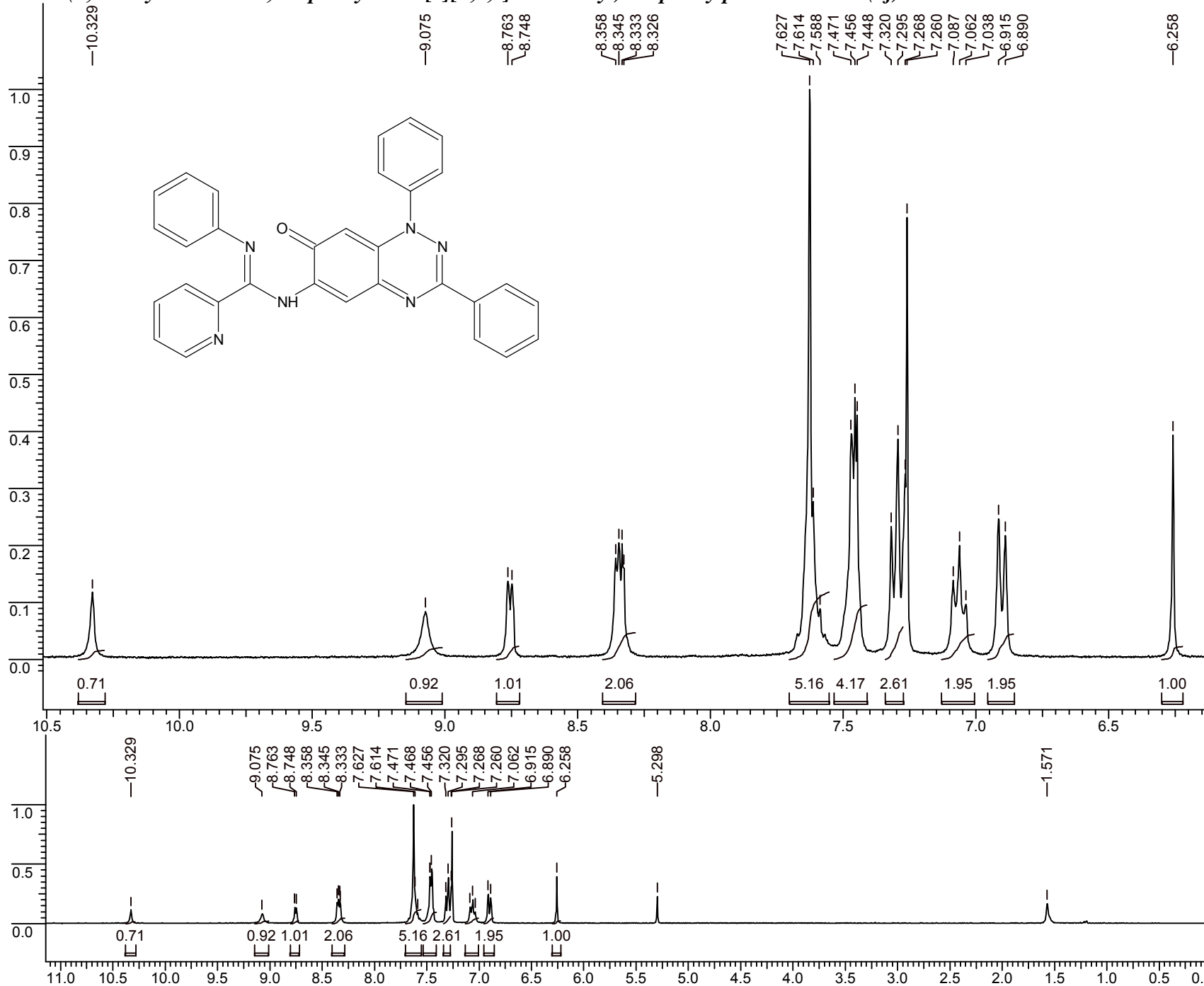
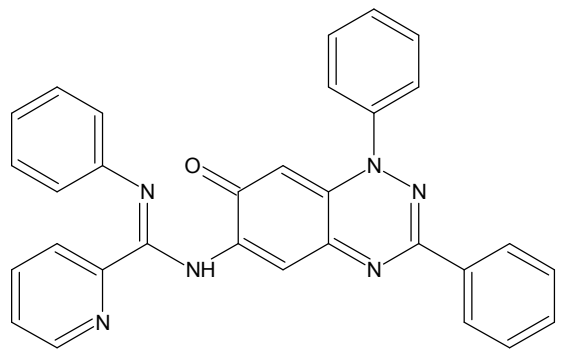
F2 - Acquisition Parameters
 Date_ 20121127
 Time 16.15
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 921
 DS 4
 SWH 17985.611 Hz
 FIDRES 0.274439 Hz
 AQ 1.8219508 sec
 RG 16384
 DW 27.800 usec
 DE 6.00 usec
 TE 297.2 K
 CNST2 145.000000
 CNST11 1.000000
 D1 2.00000000 sec
 d20 0.00689655 sec
 DELTA 0.00000908 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 13C
 P1 7.13 usec
 p2 14.26 usec
 PL1 -2.00 dB
 SFO1 75.4752953 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 110.00 usec
 PL2 0.00 dB
 PL12 22.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4677546 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

N-(1,7-Dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)-*N'*-phenylpicolinamide (7j)



Current Data Parameters
 NAME Andrey
 EXPNO 587
 PROCNO 587

F2 - Acquisition Parameters
 Date_ 20121117
 Time 20.21
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.094190 Hz
 AQ 5.3084660 sec
 RG 512
 DW 81.000 usec
 DE 9.00 usec
 TE 298.2 K
 D1 1.00000000 sec
 TD0 1

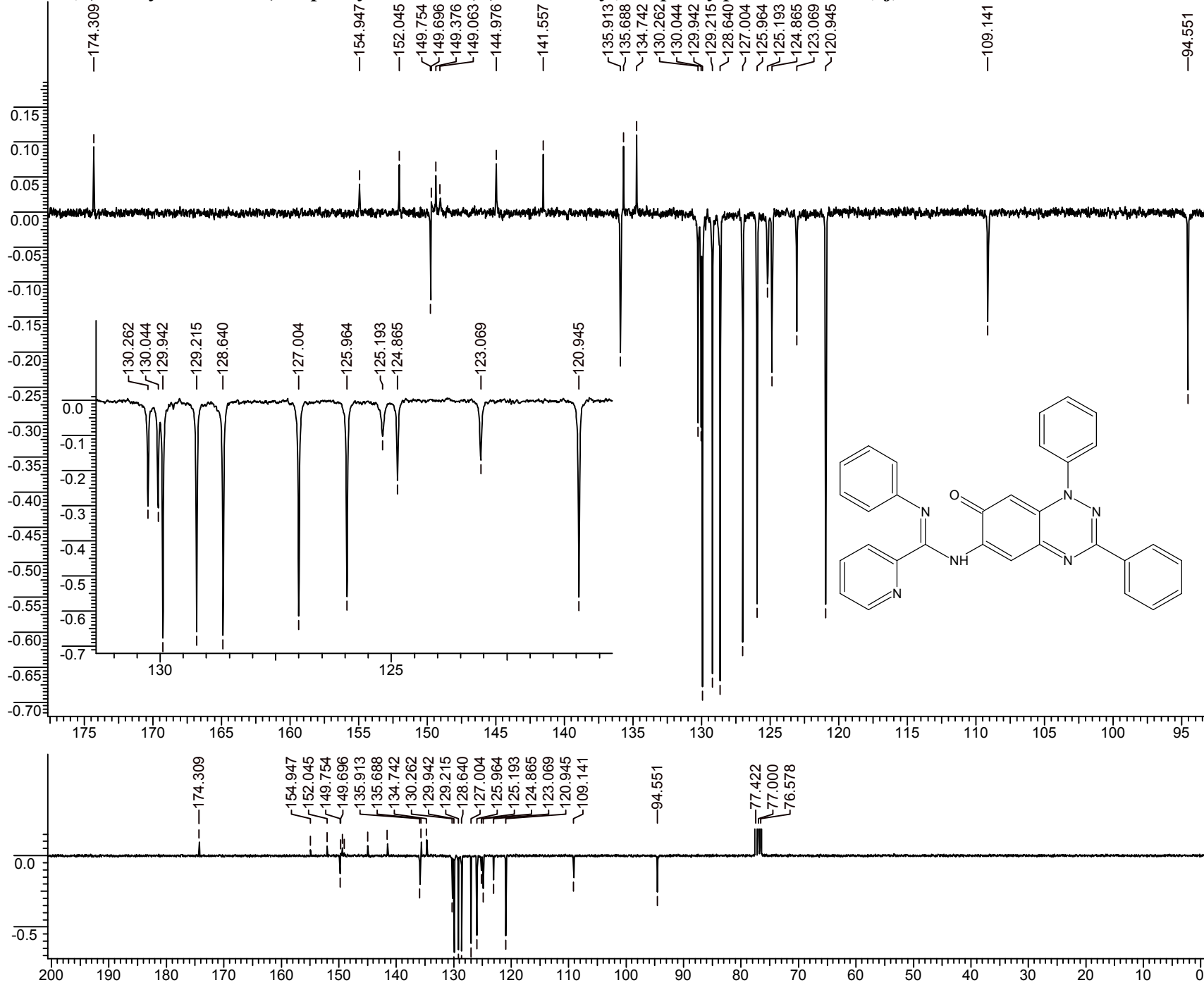
===== CHANNEL f1 =====
 NUC1 1H
 P1 9.00 usec
 PL1 0.00 dB
 SFO1 300.1318534 MHz

F1 - Acquisition parameters
 ND0 2
 TD 256
 SFO1 300.1314 MHz
 FIDRES 12.056327 Hz
 SW 10.284 ppm
 FnMODE undefined

F2 - Processing parameters
 SI 32768
 SF 300.1300061 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300000 MHz
 WDW SINE
 SSB 0
 LB 0.30 Hz
 GB 0.1

N-(1,7-Dihydro-7-oxo-1,3-diphenylbenzo[*e*][1,2,4]triazin-6-yl)-*N'*-phenylpicolinamide (7j)



Current Data Parameters
 NAME Andrey
 EXPNO 588
 PROCNO 588

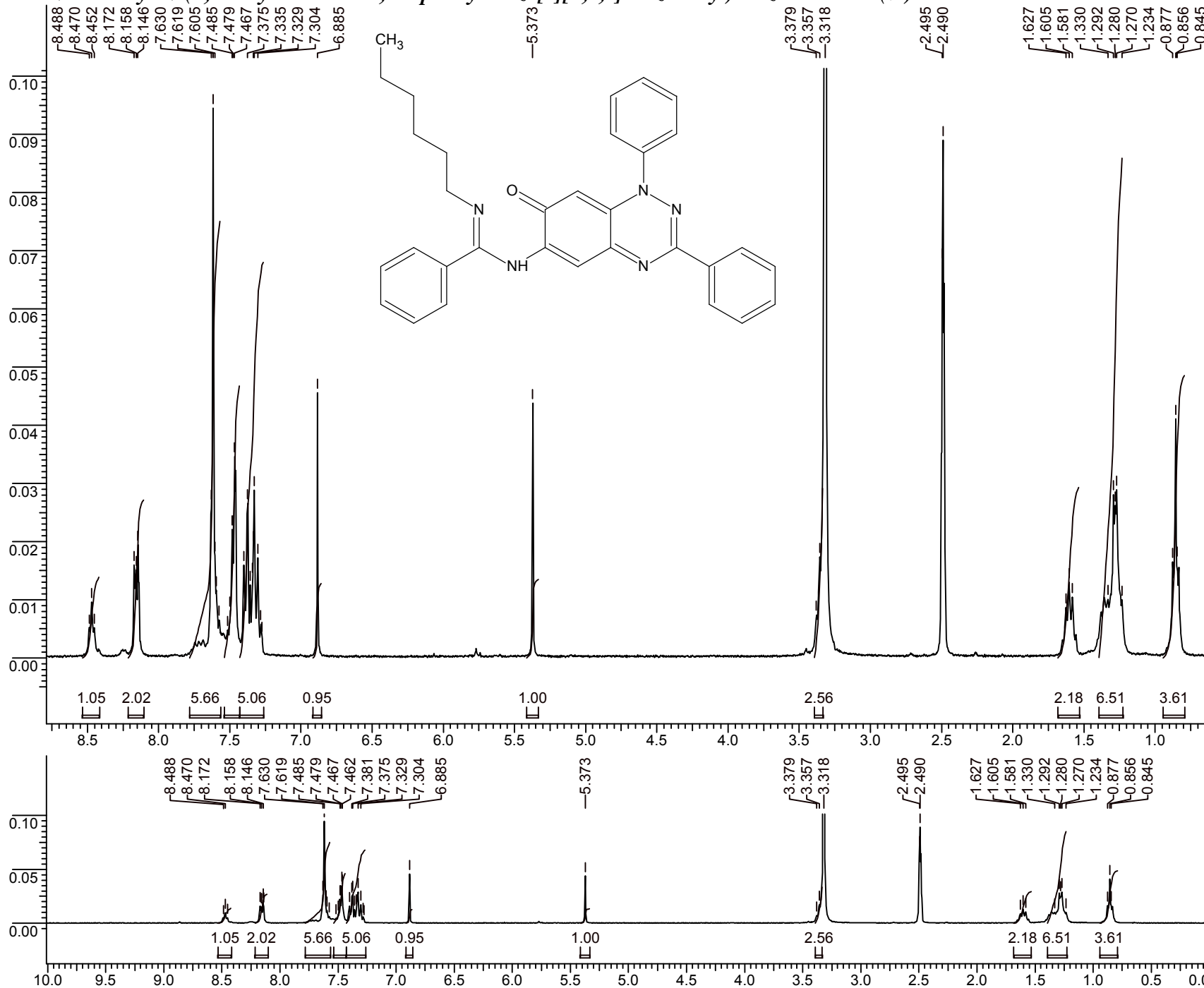
F2 - Acquisition Parameters
 Date_ 20121117
 Time 21.04
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 15000
 DS 4
 SWH 17985.611 Hz
 FIDRES 0.274439 Hz
 AQ 1.8219508 sec
 RG 6502
 DW 27.800 usec
 DE 6.00 usec
 TE 299.2 K
 CNST2 145.0000000
 CNST11 1.0000000
 D1 2.0000000 sec
 d20 0.00689655 sec
 DELTA 0.00000908 sec
 TDO 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 7.13 usec
 p2 14.26 usec
 PL1 -2.00 dB
 SFO1 75.4752953 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 110.00 usec
 PL2 0.00 dB
 PL12 22.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters
 SI 32768
 SF 75.4677501 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

***N*'-n-Hexyl-N-(1,7-dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)benzimidamide (7l)**



Current Data Parameters
 NAME Andrey
 EXPNO 610
 PROCNO 610

F2 - Acquisition Parameters
 Date_ 20121208
 Time 16.41
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.094190 Hz
 AQ 5.3084660 sec
 RG 362
 DW 81.000 usec
 DE 9.00 usec
 TE 298.2 K
 D1 1.00000000 sec
 TD0 1

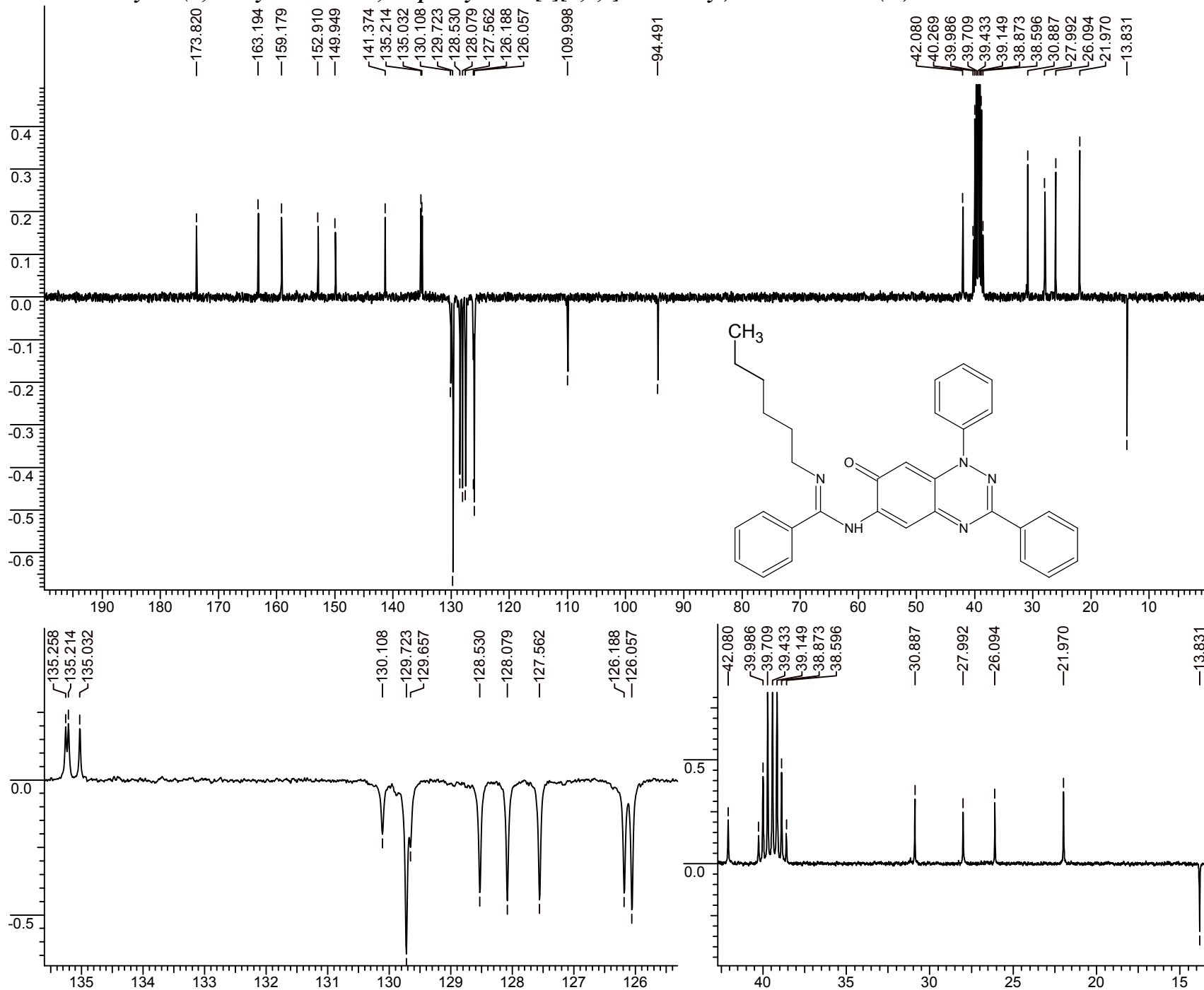
==== CHANNEL f1 =====
 NUC1 1H
 P1 9.00 usec
 PL1 0.00 dB
 SFO1 300.1318534 MHz

F1 - Acquisition parameters
 ND0 2
 TD 256
 SFO1 300.1314 MHz
 FIDRES 12.056327 Hz
 SW 10.284 ppm
 FnMODE undefined

F2 - Processing parameters
 SI 32768
 SF 300.1300012 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300000 MHz
 WDW SINE
 SSB 0
 LB 0.30 Hz
 GB 0.1

N'-*n*-Hexyl-*N*-(1,7-dihydro-7-oxo-1,3-diphenylbenzo[*e*][1,2,4]triazin-6-yl)benzimidamide (7l)



Current Data Parameters

NAME Andrey
 EXPNO 612
 PROCNO 612

F2 - Acquisition Parameters

Date_ 20121208
 Time 17.08
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG jmod
 TD 65536
 SOLVENT DMSO
 NS 1200
 DS 4
 SWH 17985.611 Hz
 FIDRES 0.274439 Hz
 AQ 1.8219508 sec
 RG 7298.2
 DW 27.800 usec
 DE 6.00 usec
 TE 298.2 K
 CNST2 145.0000000
 CNST11 1.0000000
 D1 2.00000000 sec
 d20 0.00689655 sec
 DELTA 0.00000908 sec
 TD0 1

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

NUC1 13C
 P1 7.13 usec
 p2 14.26 usec
 PL1 -2.00 dB
 SFO1 75.4752953 MHz

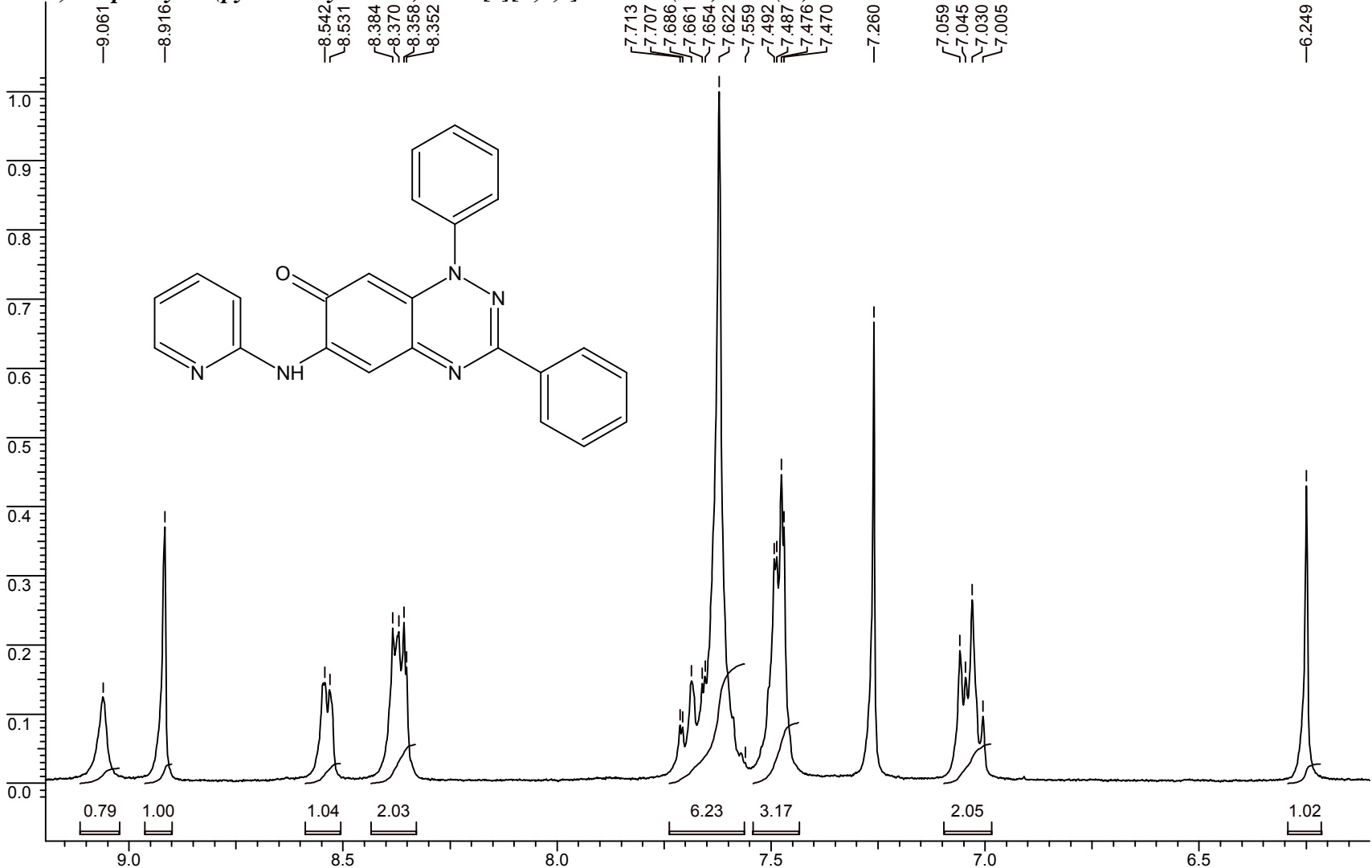
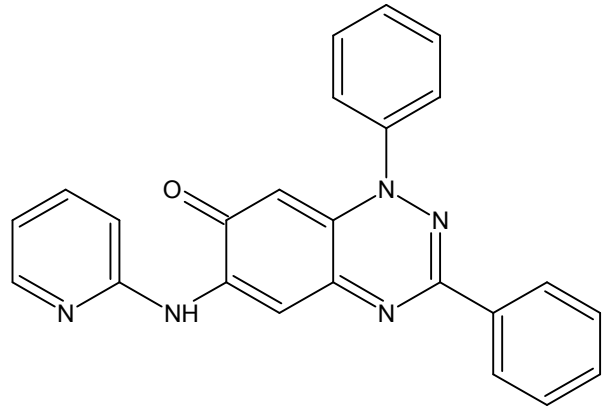
===== CHANNEL f2 =====

CPDPRG2 waltz16
 NUC2 1H
 PCPD2 110.00 usec
 PL2 0.00 dB
 PL12 22.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters

SI 32768
 SF 75.4677913 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1,3-Diphenyl-6-(pyridin-2-ylamino)benzo[e][1,2,4]triazin-7(1H)-one (8i)



Current Data Parameters
 NAME Andrey
 EXPNO 498
 PROCNO 498

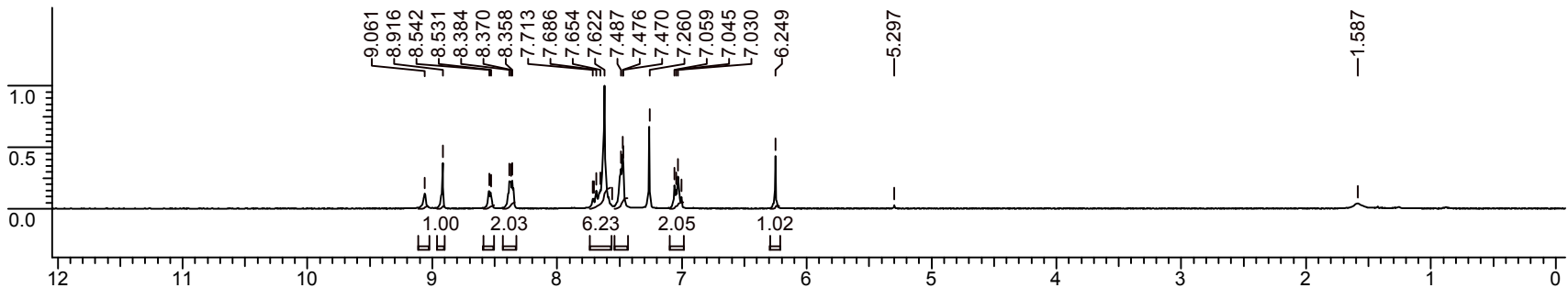
F2 - Acquisition Parameters
 Date_ 20120308
 Time 20.27
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.094190 Hz
 AQ 5.3084660 sec
 RG 574.7
 DW 81.000 usec
 DE 9.00 usec
 TE 297.2 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 9.00 usec
 PL1 0.00 dB
 SFO1 300.1318534 MHz

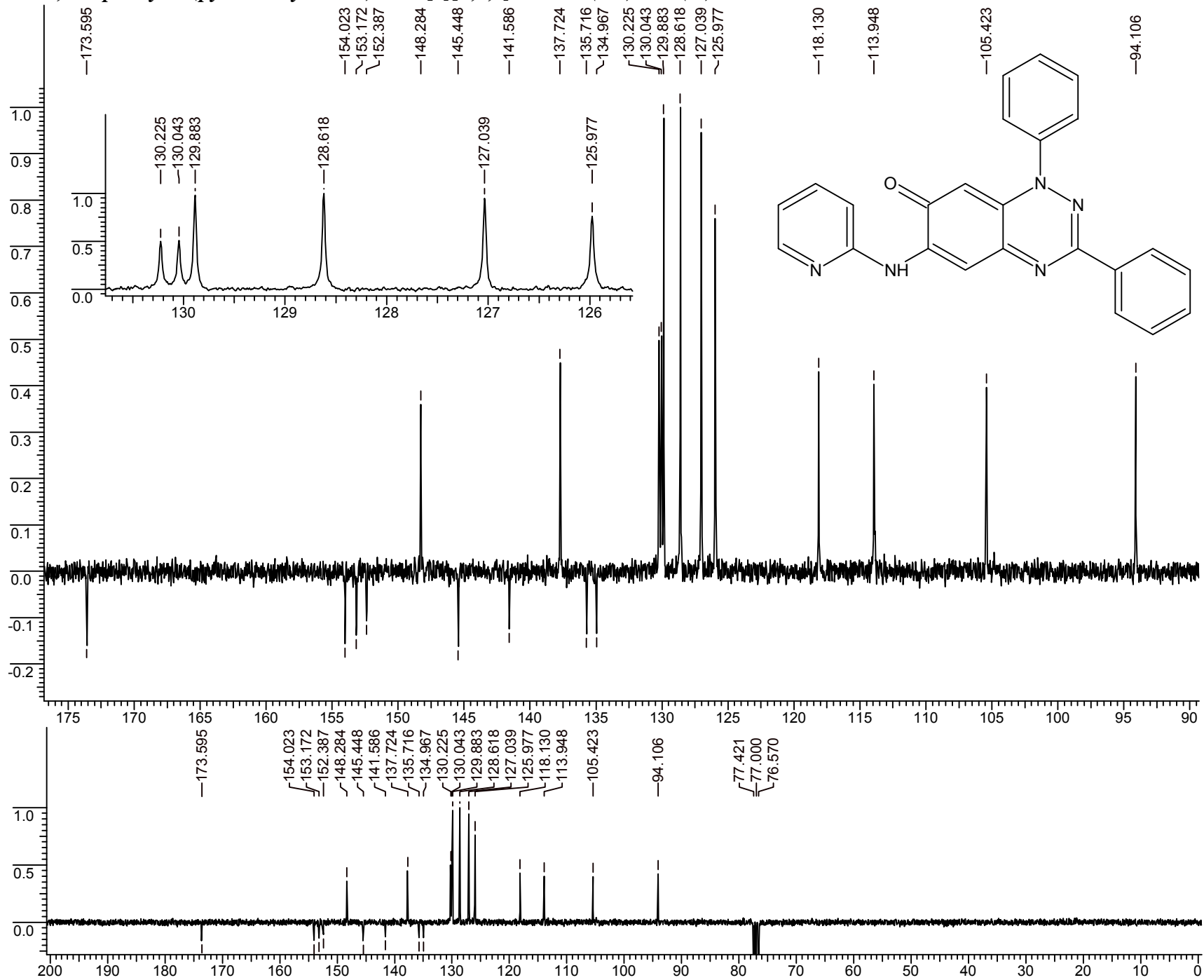
F1 - Acquisition parameters
 ND0 2
 TD 256
 SFO1 300.1314 MHz
 FIDRES 12.056327 Hz
 SW 10.284 ppm
 FnMODE undefined

F2 - Processing parameters
 SI 32768
 SF 300.1300059 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300000 MHz
 WDW SINE
 SSB 0
 LB 0.30 Hz
 GB 0.1



1,3-Diphenyl-6-(pyridin-2-ylamino)benzo[e][1,2,4]triazin-7(1H)-one (8i)



Current Data Parameters

NAME Andrey
 EXPNO 499
 PROCNO 499

F2 - Acquisition Parameters

Date_ 20120308
 Time 20.40
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 17985.611 Hz
 FIDRES 0.274439 Hz
 AQ 1.8219508 sec
 RG 16384
 DW 27.800 usec
 DE 6.00 usec
 TE 297.2 K
 CNST2 145.0000000
 CNST11 1.0000000
 D1 2.00000000 sec
 d20 0.00689655 sec
 DELTA 0.00000908 sec
 TD0 1

==== CHANNEL f1 =====

NUC1 13C
 P1 7.13 usec
 p2 14.26 usec
 PL1 -2.00 dB
 SFO1 75.4752953 MHz

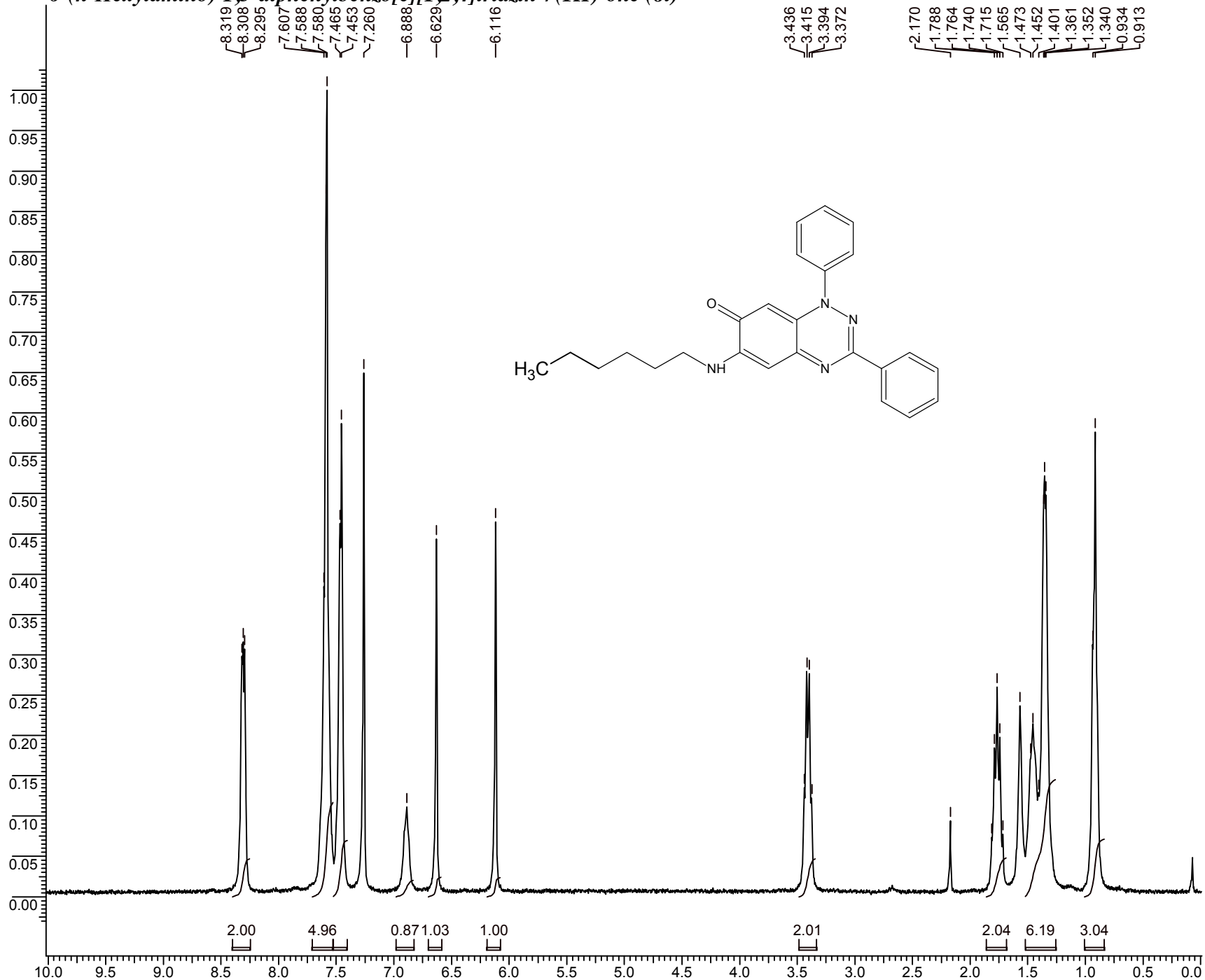
==== CHANNEL f2 =====

CPDPRG2 waltz16
 NUC2 1H
 PCPD2 110.00 usec
 PL2 0.00 dB
 PL12 22.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters

SI 32768
 SF 75.4677515 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

6-(n-Hexylamino)-1,3-diphenylbenzo[e][1,2,4]triazin-7(1H)-one (8l)



Current Data Parameters

NAME Andrey
EXPNO 600
PROCNO 600

F2 - Acquisition Parameters

Date_ 20121201
Time 16.47
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 6172.839 Hz
FIDRES 0.094190 Hz
AQ 5.3084660 sec
RG 322.5
DW 81.000 usec
DE 9.00 usec
TE 298.2 K
D1 1.00000000 sec
TD0 1

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

NUC1 1H
P1 9.00 usec
PL1 0.00 dB
SFO1 300.1318534 MHz

F1 - Acquisition parameters

ND0 2
TD 256
SFO1 300.1314 MHz
FIDRES 12.056327 Hz
SW 10.284 ppm
FnMODE undefined

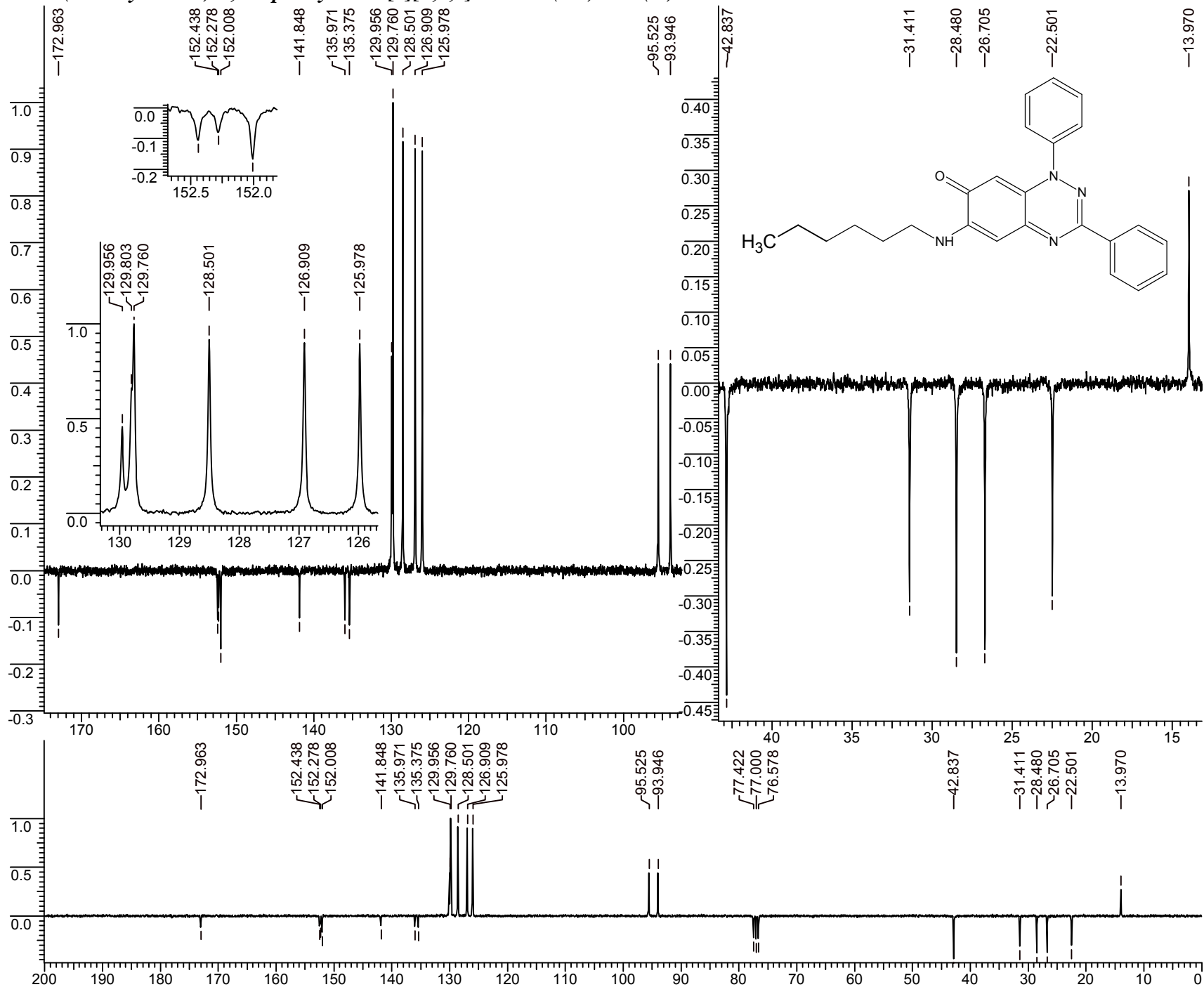
F2 - Processing parameters

SI 32768
SF 300.1300059 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

F1 - Processing parameters

SI 1024
MC2 QF
SF 300.1300000 MHz
WDW SINE
SSB 0
LB 0.30 Hz
GB 0.1

6-(n-Hexylamino)-1,3-diphenylbenzo[e][1,2,4]triazin-7(1H)-one (8l)



Current Data Parameters

NAME Andrey
 EXPNO 601
 PROCNO 601

F2 - Acquisition Parameters

Date_ 20121201
 Time 17.05
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 1129
 DS 4
 SWH 17985.611 Hz
 FIDRES 0.274439 Hz
 AQ 1.8219508 sec
 RG 16384
 DW 27.800 usec
 DE 6.00 usec
 TE 298.2 K
 CNST2 145.0000000
 CNST11 1.0000000
 D1 2.00000000 sec
 d20 0.00689655 sec
 DELTA 0.00000908 sec
 TD0 1

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

NUC1 13C
 P1 7.13 usec
 p2 14.26 usec
 PL1 -2.00 dB
 SFO1 75.4752953 MHz

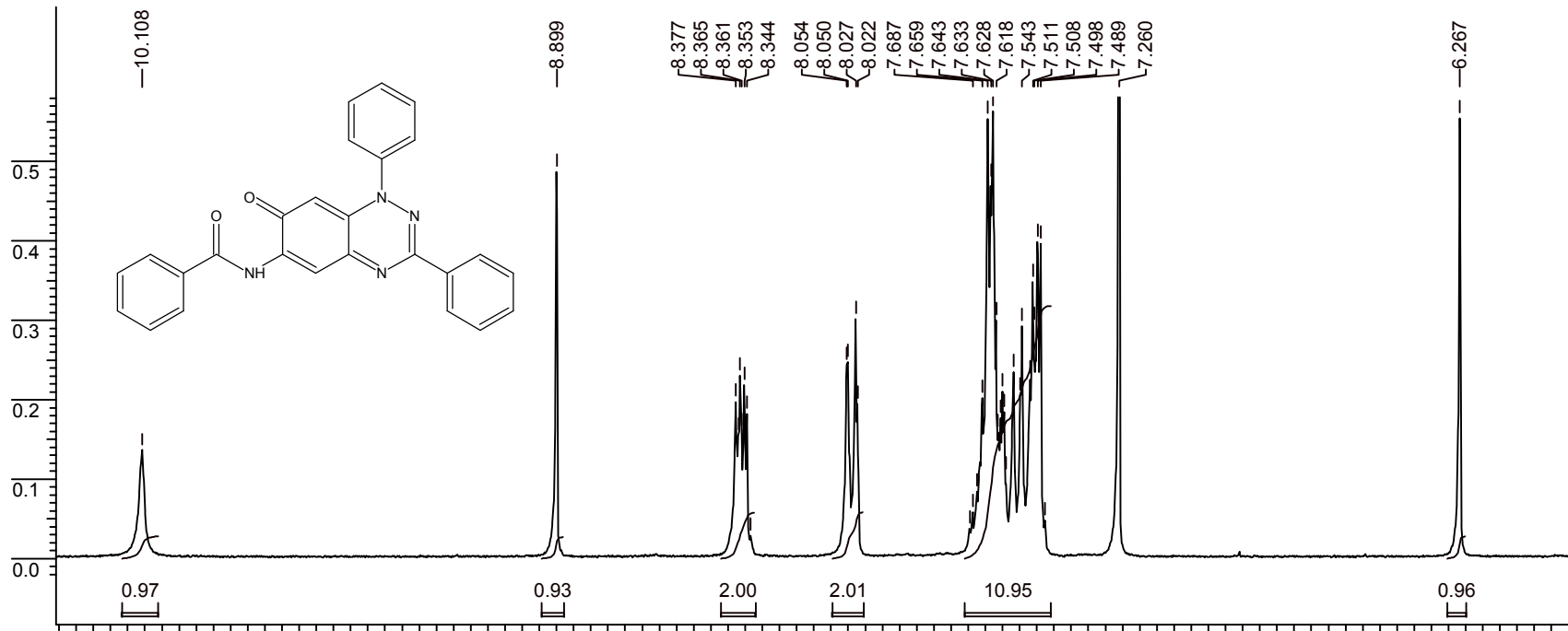
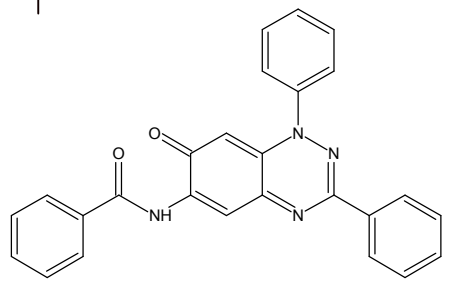
===== CHANNEL f2 =====

CPDPRG2 waltz16
 NUC2 1H
 PCPD2 110.00 usec
 PL2 0.00 dB
 PL12 22.00 dB
 SFO2 300.1312005 MHz

F2 - Processing parameters

SI 32768
 SF 75.4677534 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

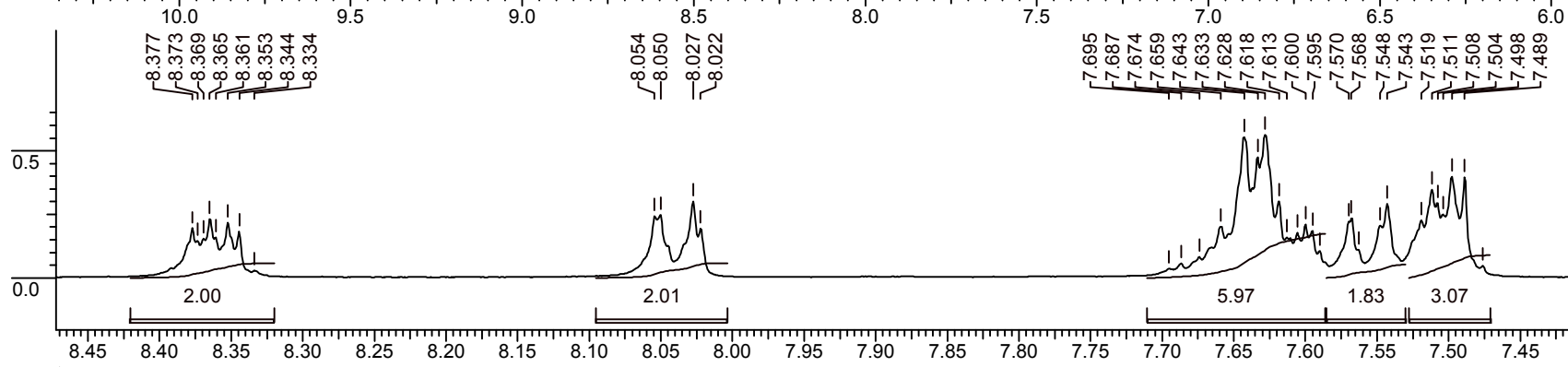
N-(1,7-Dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)benzamide (13a)



Current Data Parameters
 NAME Andrey
 EXPNO 494
 PROCNO 494

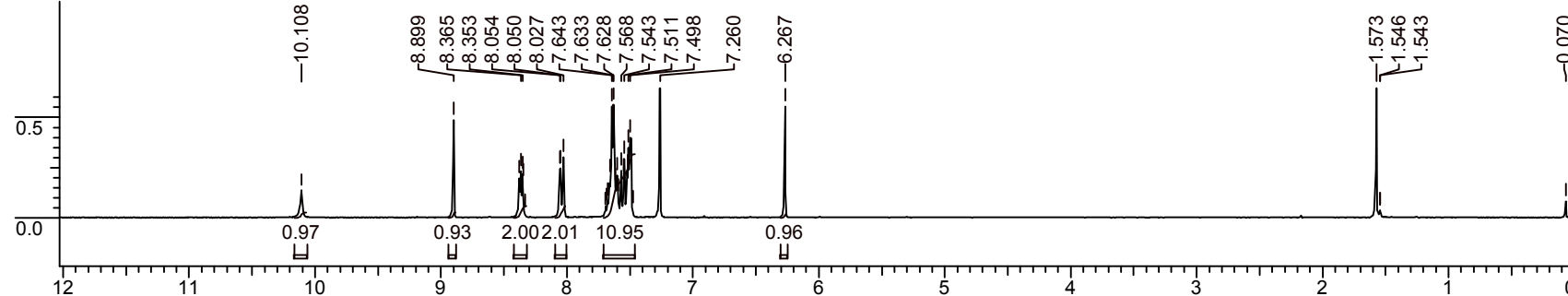
F2 - Acquisition Parameters
 Date_ 20120302
 Time 18.54
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.094190 Hz
 AQ 5.3084660 sec
 RG 574.7
 DW 81.000 usec
 DE 9.00 usec
 TE 297.2 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 9.00 usec
 PL1 0.00 dB
 SFO1 300.1318534 MHz



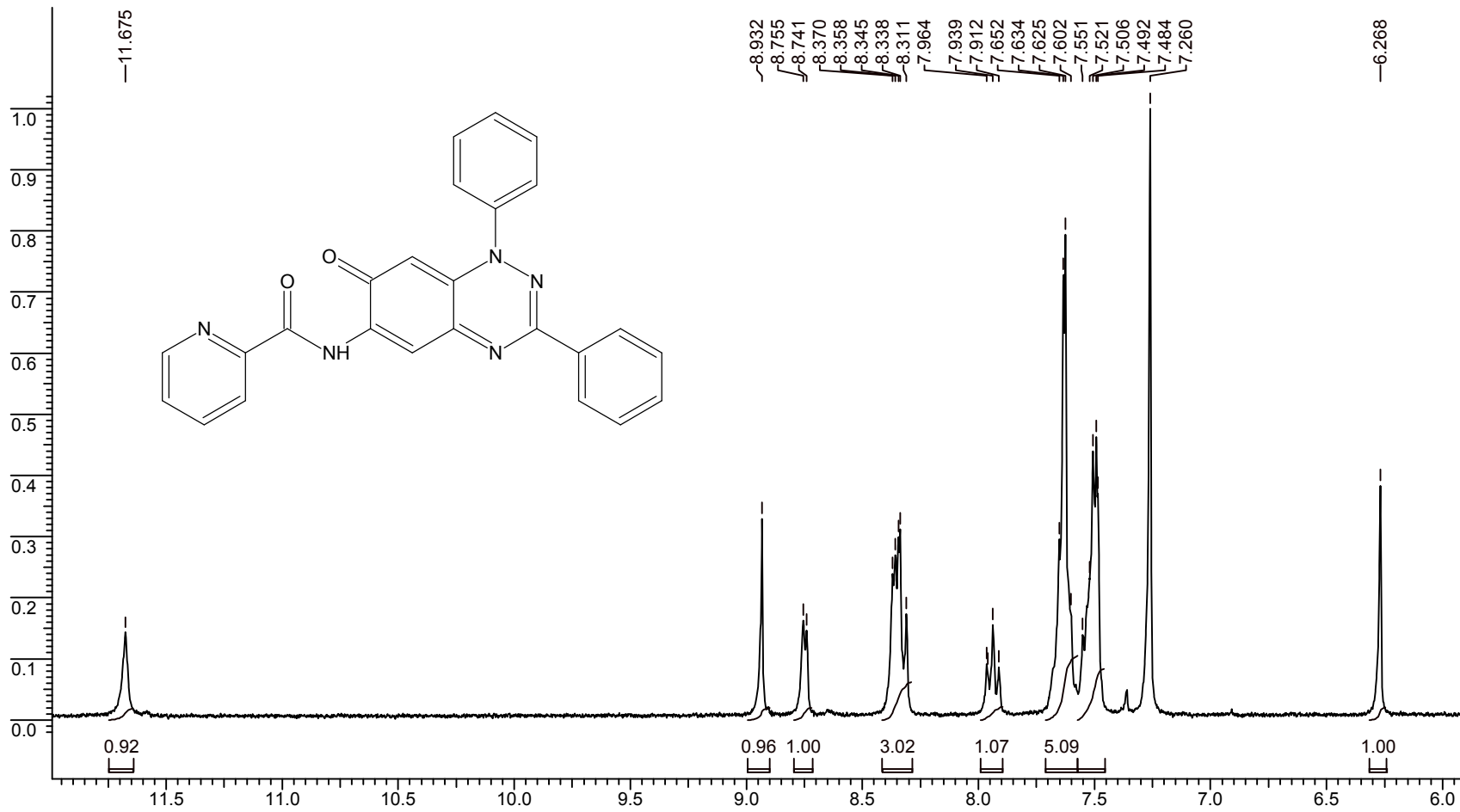
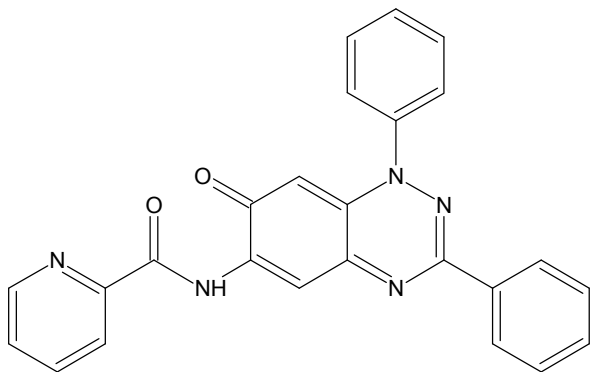
F1 - Acquisition parameters
 ND0 2
 TD 256
 SFO1 300.1314 MHz
 FIDRES 12.056327 Hz
 SW 10.284 ppm
 FnMODE undefined

F2 - Processing parameters
 SI 32768
 SF 300.1300058 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300000 MHz
 WDW SINE
 SSB 0
 LB 0.30 Hz
 GB 0.1

N-(1,7-Dihydro-7-oxo-1,3-diphenylbenzo[e][1,2,4]triazin-6-yl)picolinamide (13b)

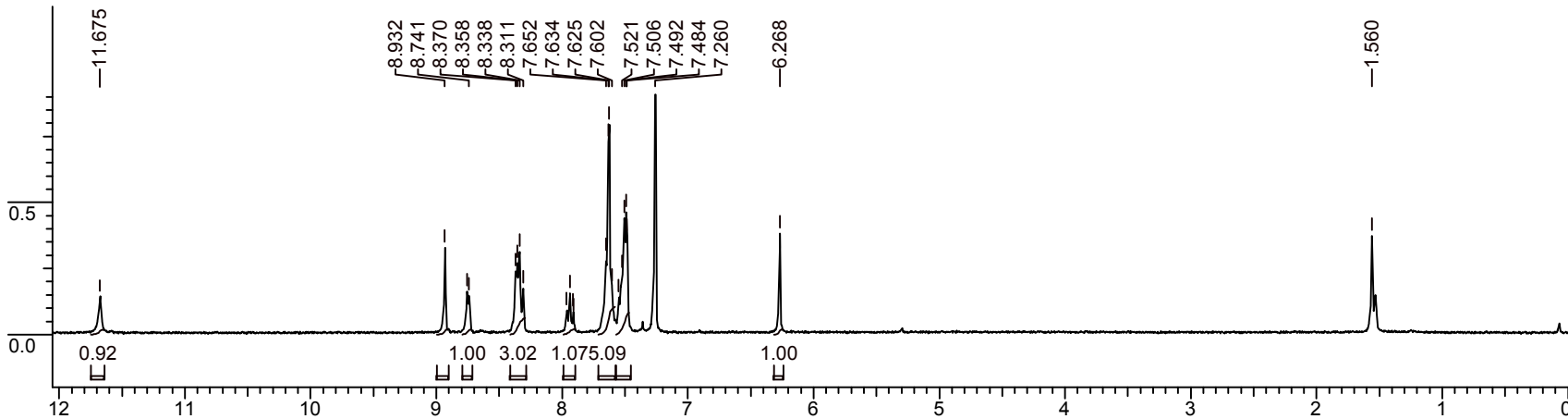


Current Data Parameters
 NAME Andrey
 EXPNO 534
 PROCNO 534

F2 - Acquisition Parameters
 Date_ 20120409
 Time 22.48
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.094190 Hz
 AQ 5.3084660 sec
 RG 724.1
 DW 81.000 usec
 DE 9.00 usec
 TE 297.2 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 9.00 usec
 PL1 0.00 dB
 SFO1 300.1318534 MHz

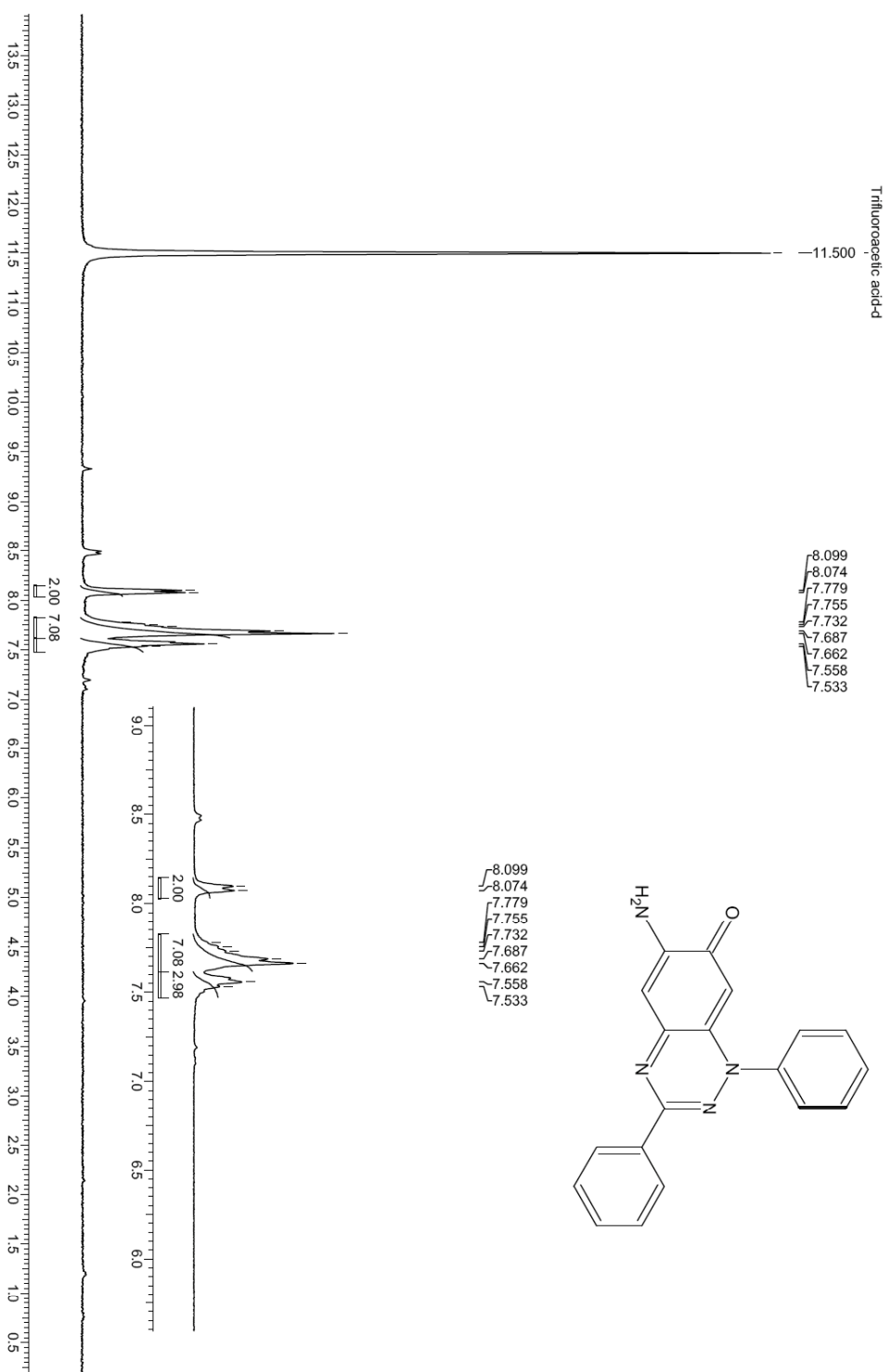
F1 - Acquisition parameters
 ND0 2
 TD 256
 SFO1 300.1314 MHz
 FIDRES 12.056327 Hz
 SW 10.284 ppm
 FnMODE undefined



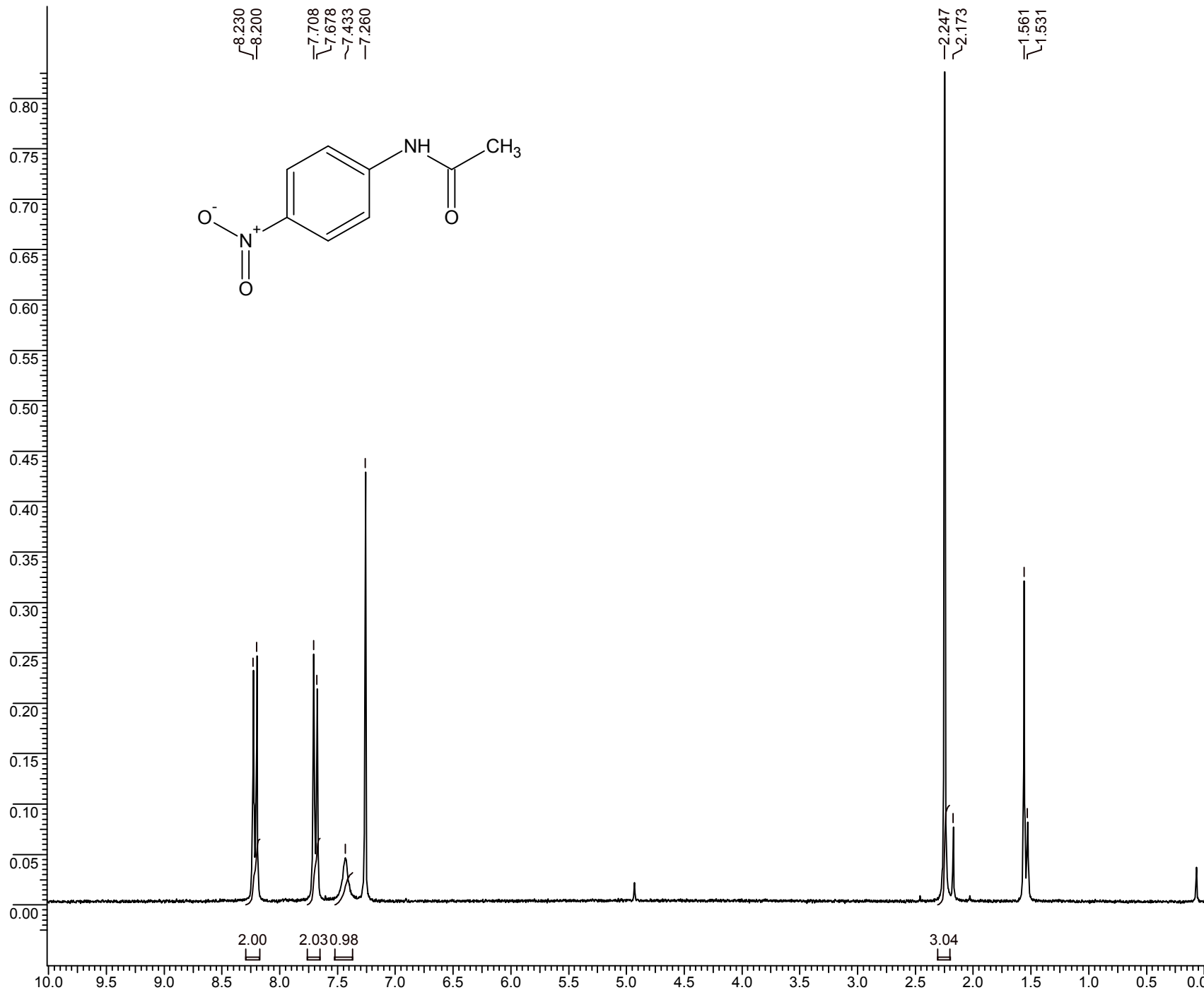
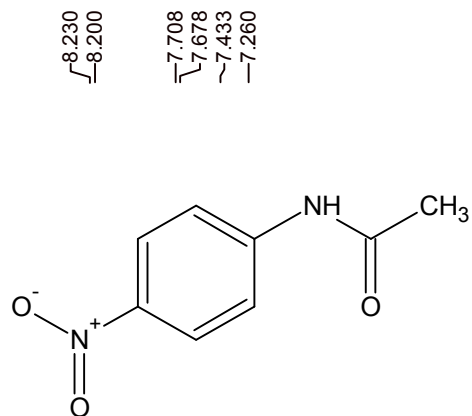
F2 - Processing parameters
 SI 32768
 SF 300.1300056 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

F1 - Processing parameters
 SI 1024
 MC2 QF
 SF 300.1300000 MHz
 WDW SINE
 SSB 0
 LB 0.30 Hz
 GB 0.1

¹H NMR of 6-Amino-1,3-diphenylbenzotriazin[1,2,4]triazin-7(1H)-one (14)



N-(4-nitrophenyl)acetamide



Current Data Parameters

NAME Andrey
 EXPNO 613
 PROCNO 613

F2 - Acquisition Parameters

Date_ 20121213
 Time 13.31
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 6172.839 Hz
 FIDRES 0.094190 Hz
 AQ 5.3084660 sec
 RG 574.7
 DW 81.000 usec
 DE 9.00 usec
 TE 298.2 K
 D1 1.00000000 sec
 TD0 1

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

NUC1 1H
 P1 9.00 usec
 PL1 0.00 dB
 SFO1 300.1318534 MHz

F1 - Acquisition parameters

ND0 2
 TD 256
 SFO1 300.1314 MHz
 FIDRES 12.056327 Hz
 SW 10.284 ppm
 FnMODE undefined

F2 - Processing parameters

SI 32768
 SF 300.1300061 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

F1 - Processing parameters

SI 1024
 MC2 QF
 SF 300.1300000 MHz
 WDW SINE
 SSB 0
 LB 0.30 Hz
 GB 0.1