

Supporting Information

Synthesis of Triazafluoranthenones *via* Silver (I) Mediated Non-oxidative and Oxidative Intramolecular Palladium Catalyzed Cyclizations

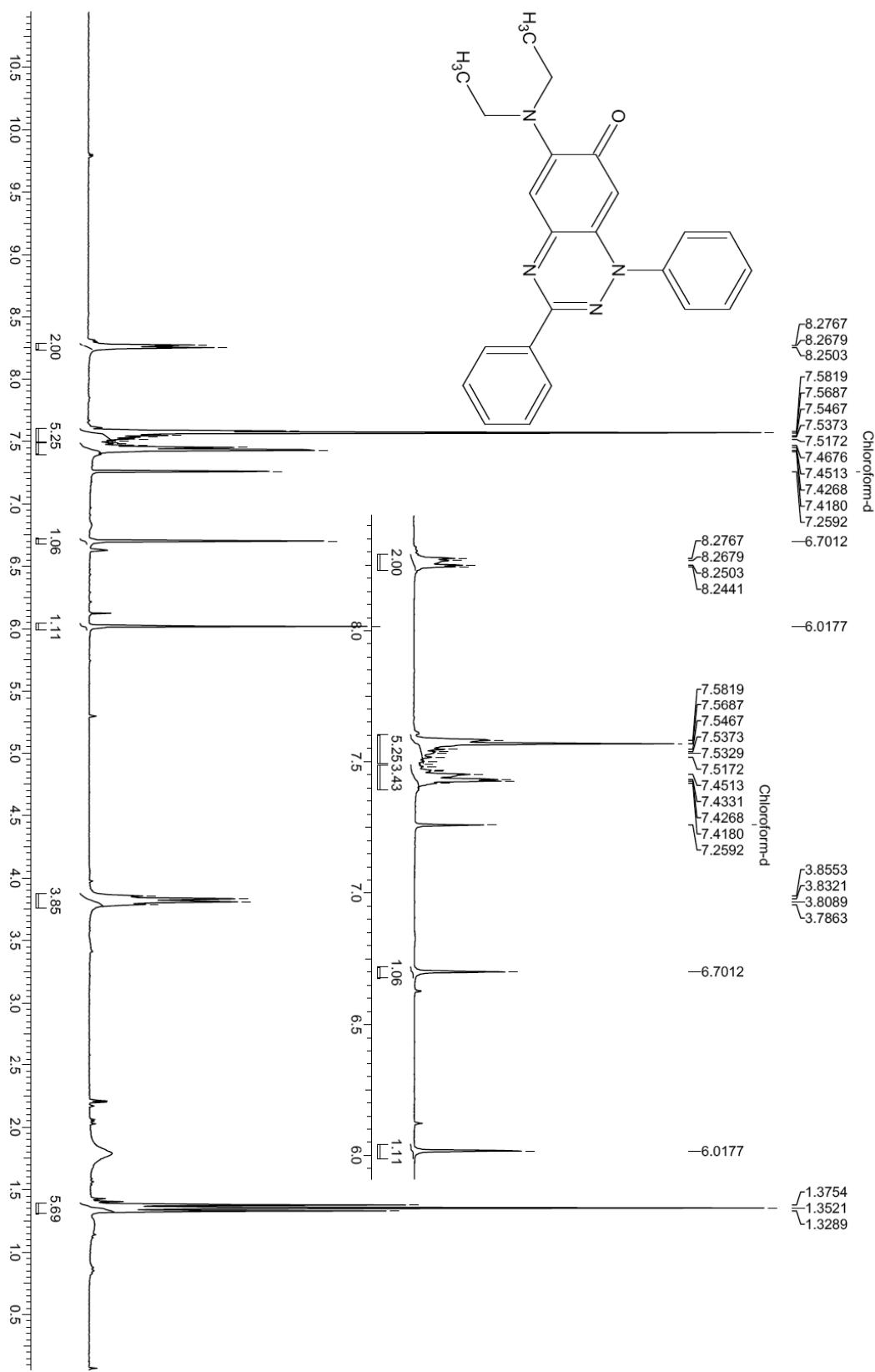
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Cyprus, koutenti@ucy.ac.cy

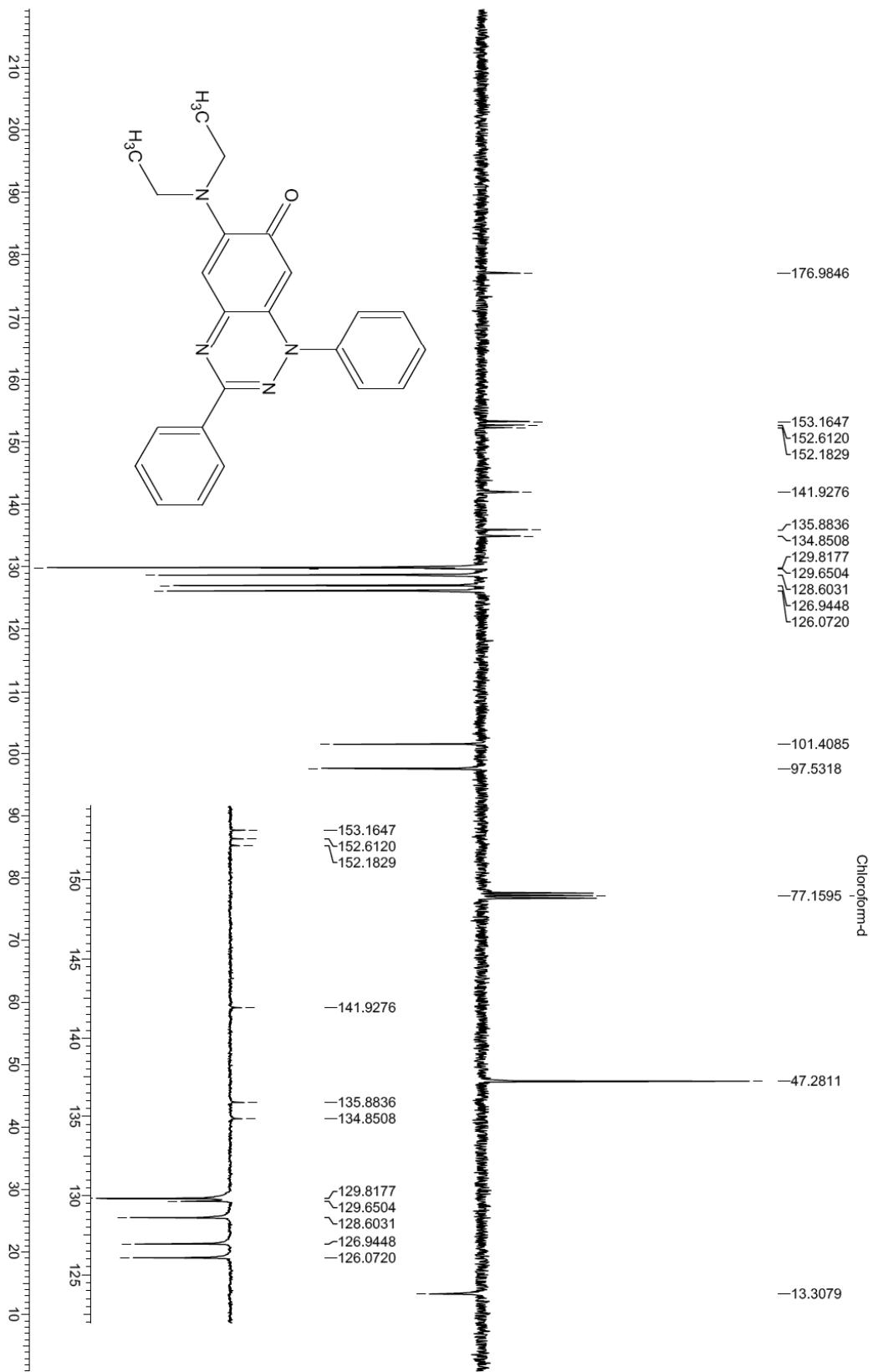
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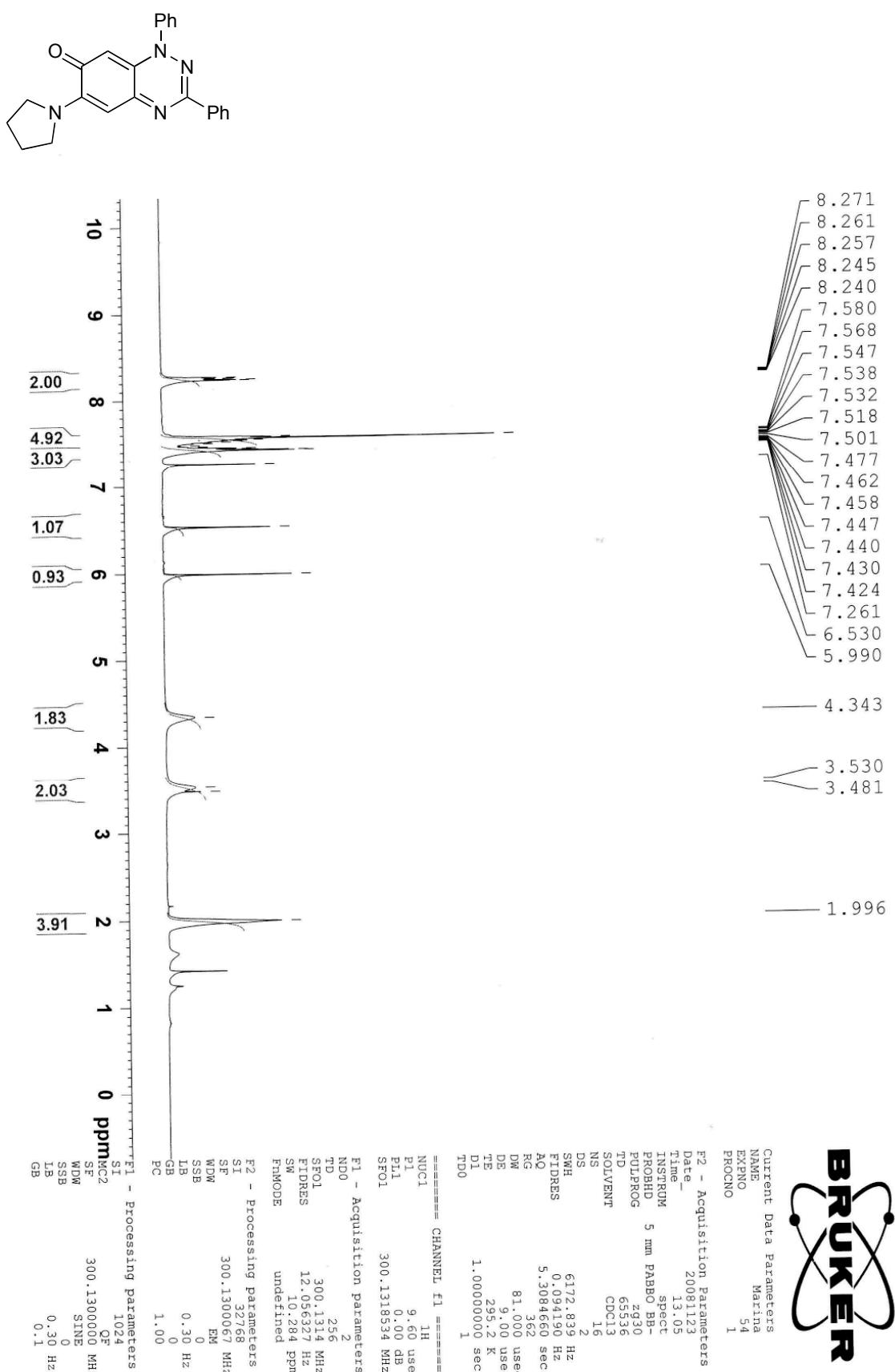
¹H NMR of 6-(Diethylamino)-1,3-diphenylbenzo[e][1,2,4]triazin-7(1H)-one (6b)



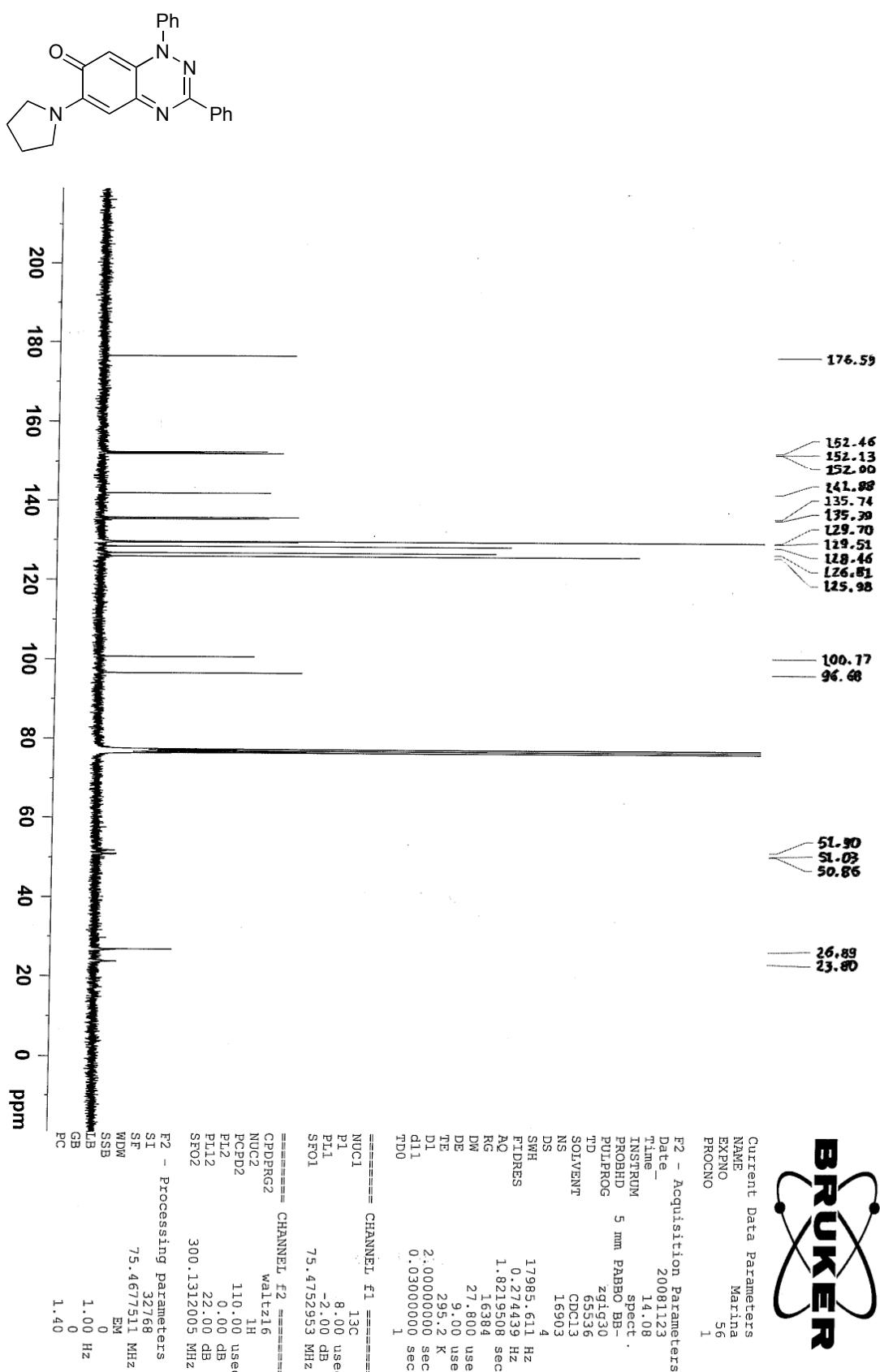
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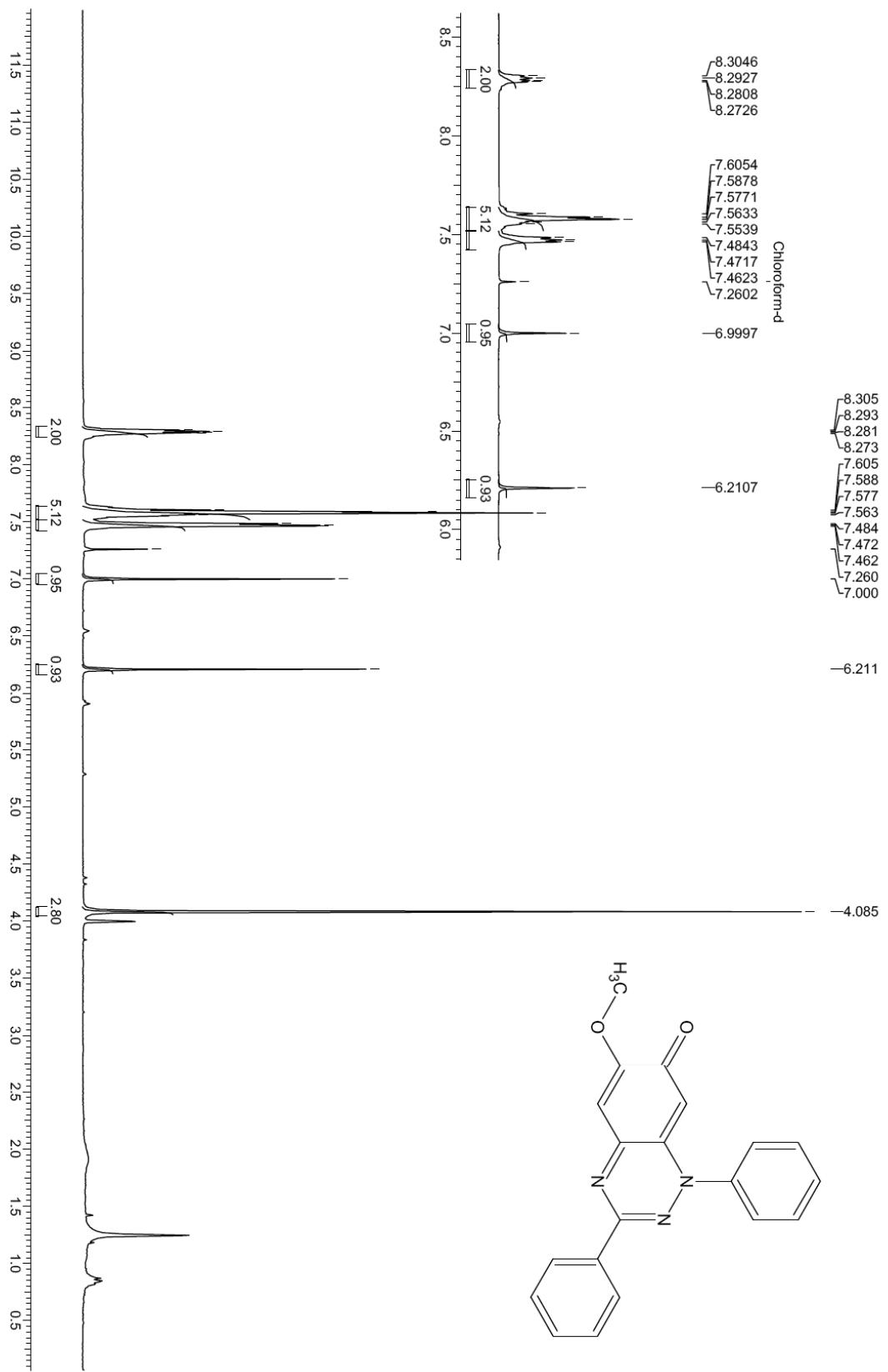
¹H NMR of 1,3-Diphenyl-6-(pyrrolidin-1-yl)benzo[e][1,2,4]triazin-7(1H)-one (6c)



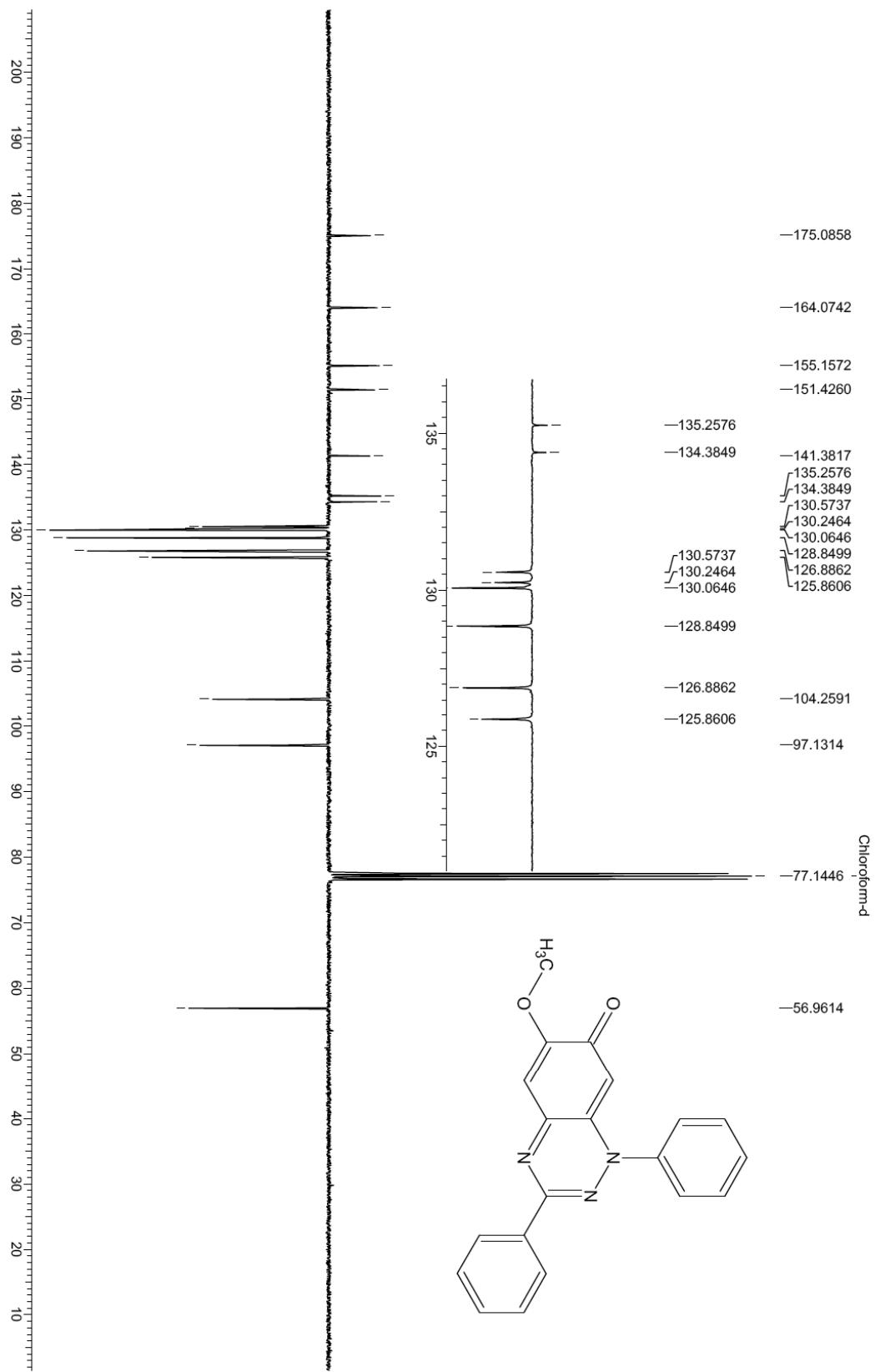
¹³C NMR of 1,3-Diphenyl-6-(pyrrolidin-1-yl)benzo[e][1,2,4]triazin-7(1H)-one (6c)



¹H NMR of 6-Methoxy-1,3-diphenylbenzo[e][1,2,4]triazin-7(1H)-one (6d)



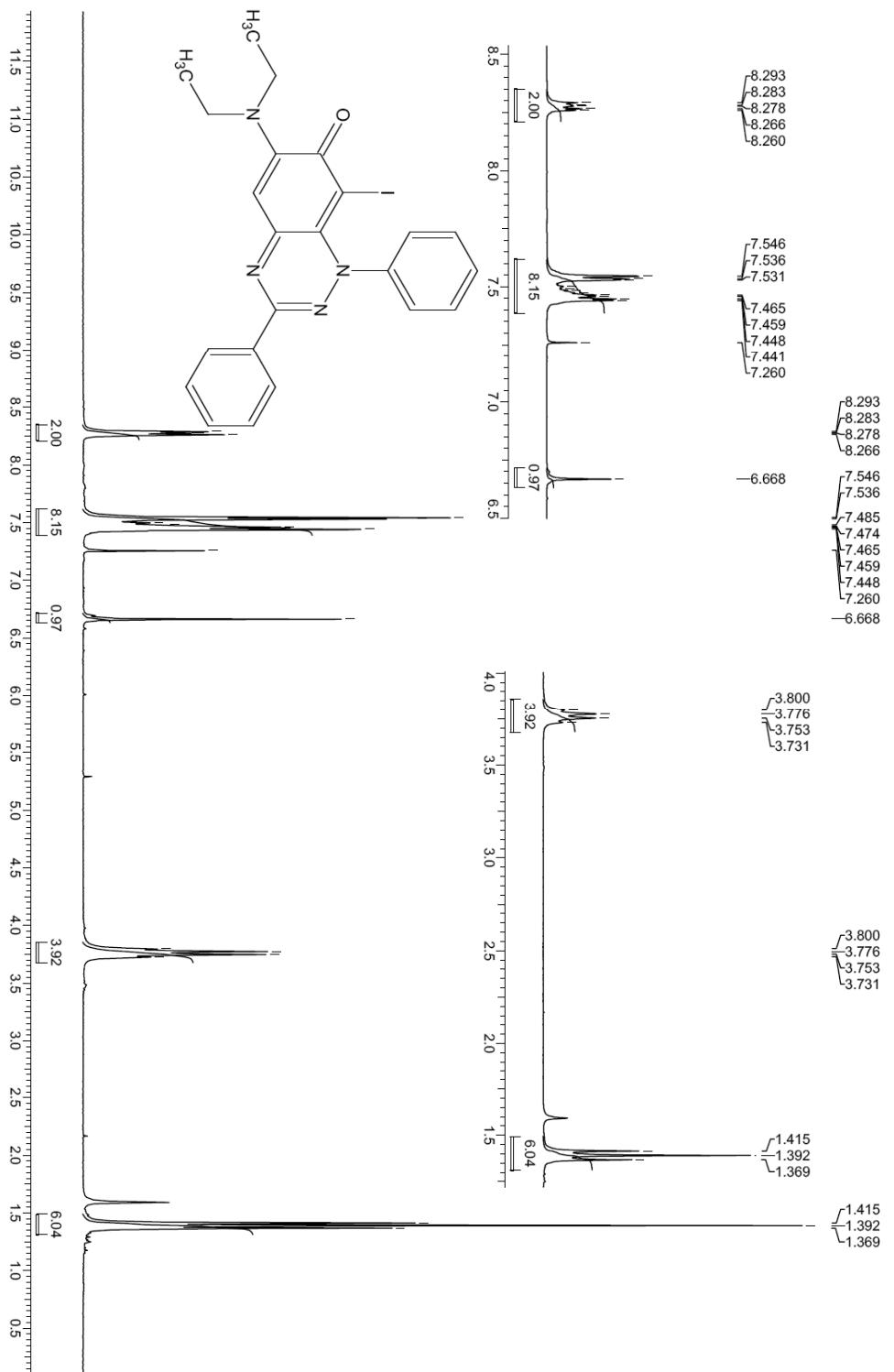
¹³C NMR of 6-Methoxy-1,3-diphenylbenzo[e][1,2,4]triazin-7(1H)-one (6d)



S:

¹H NMR of 6-(Diethylamino)-8-iodo-1,3-diphenylbenzo[e][1,2,4]triazin-7(1H)-one

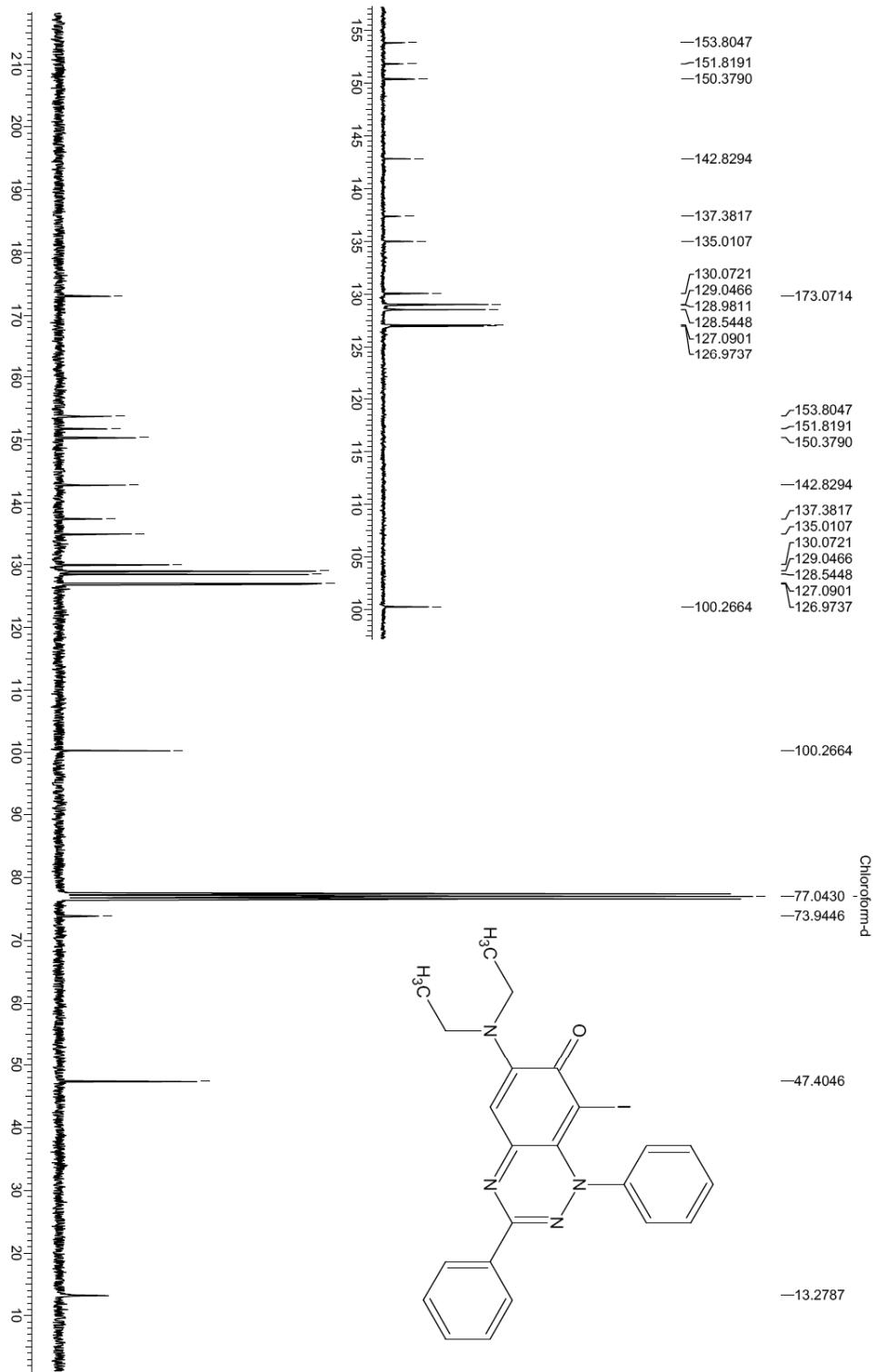
(7b)



S:

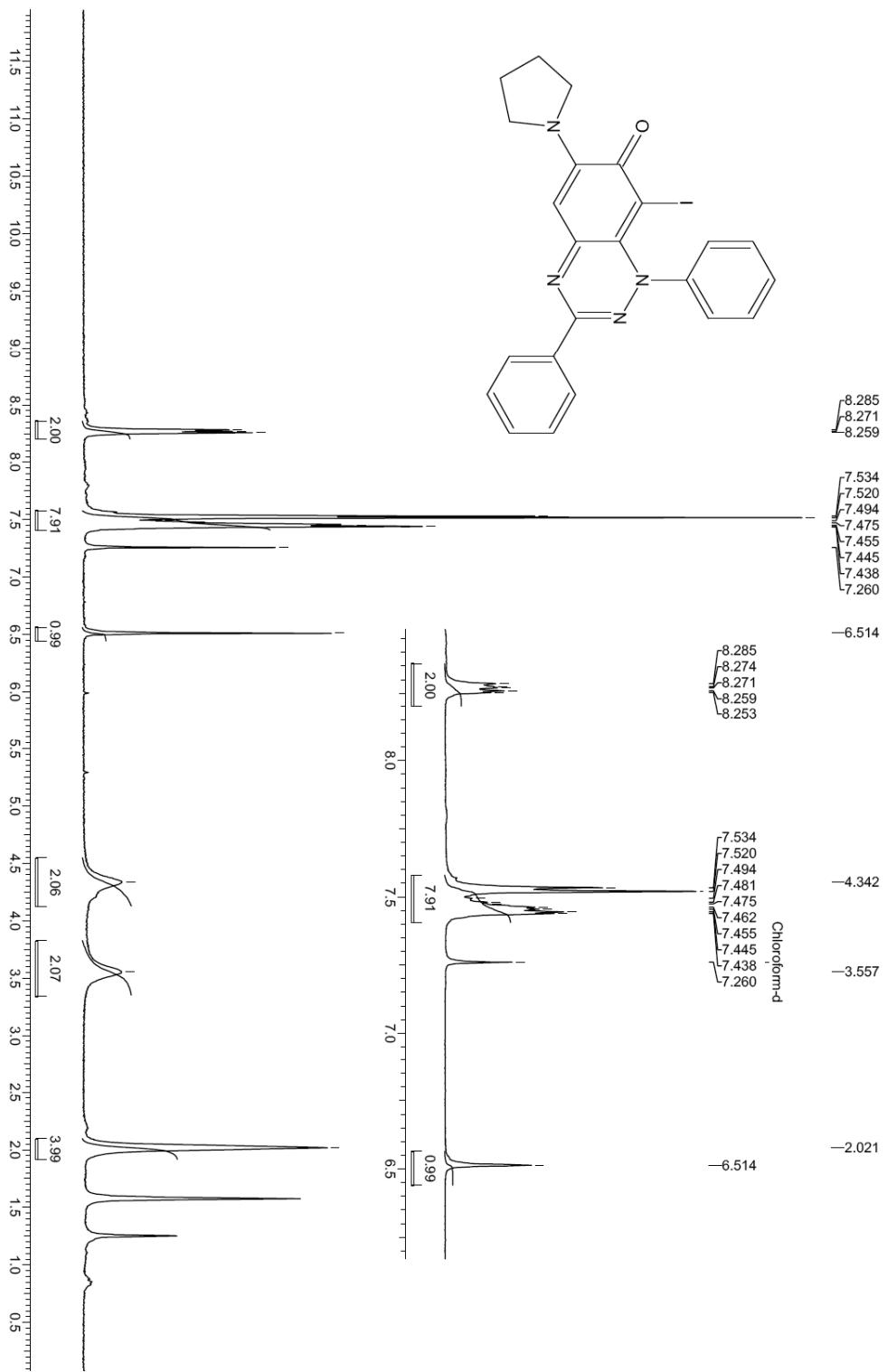
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(7b)

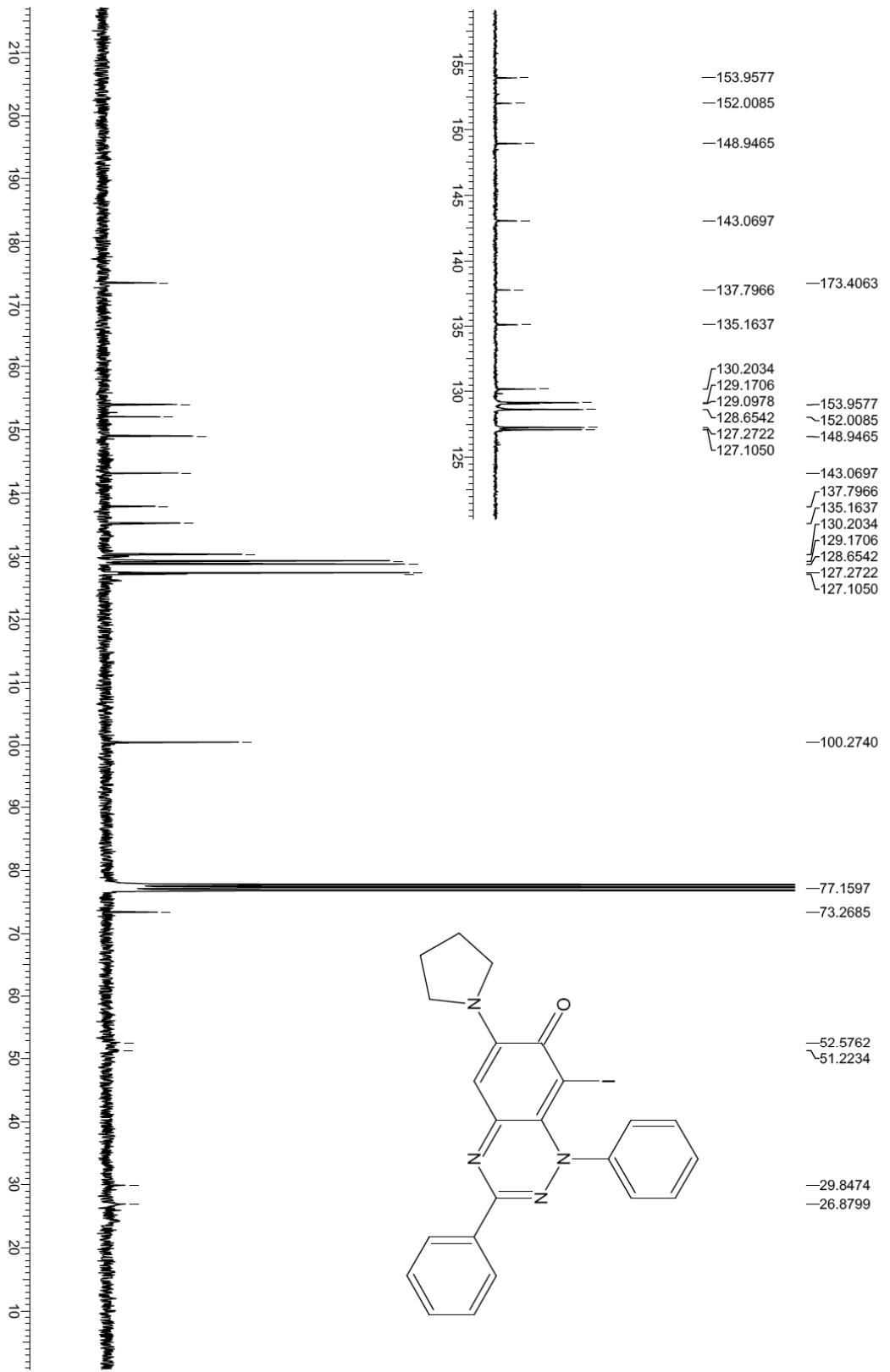


¹H NMR of 8-Iodo-1,3-diphenyl-6-(pyrrolidin-1-yl)benzo[e][1,2,4]triazin-7(1H)-one

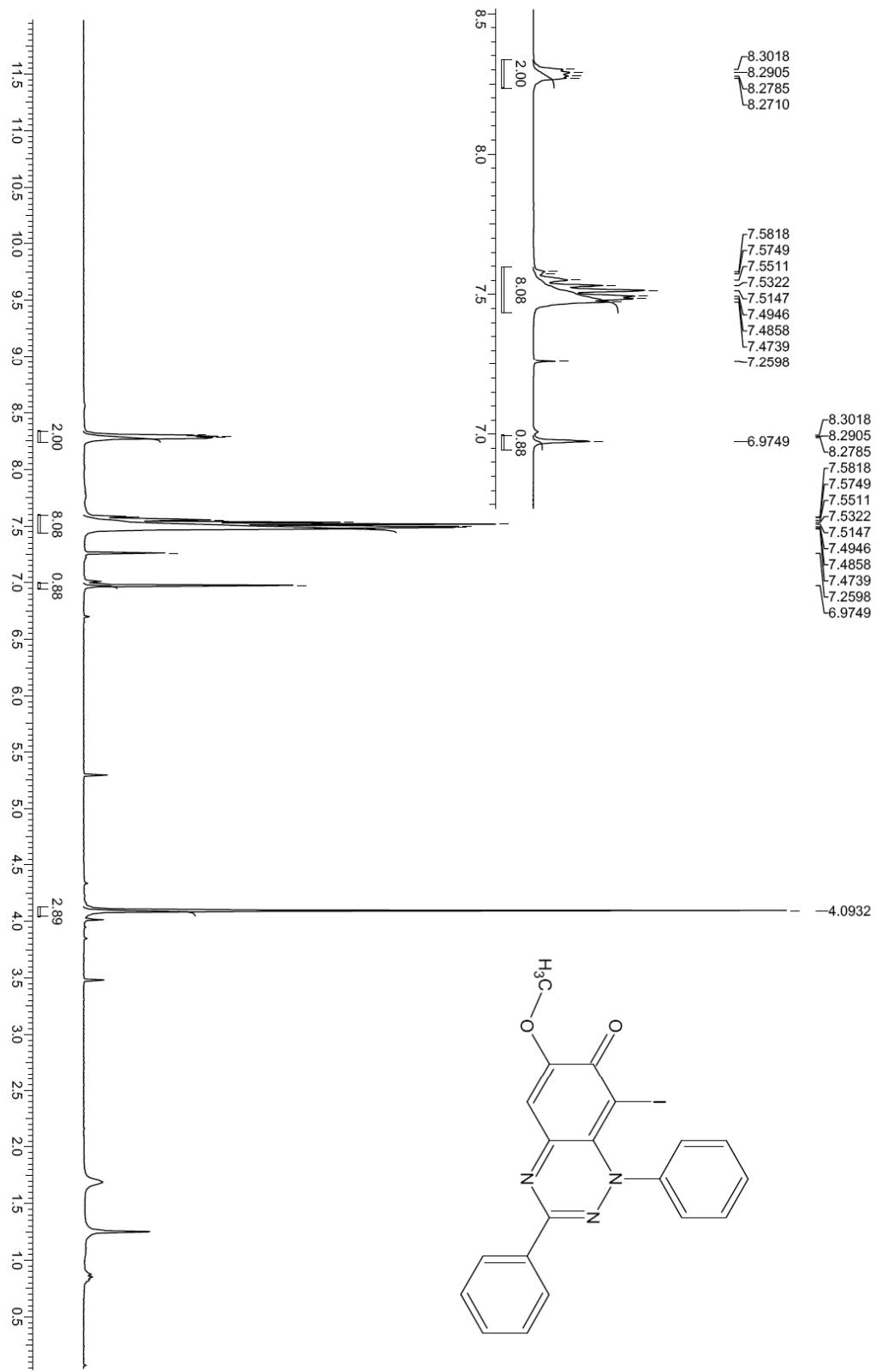
(7c)



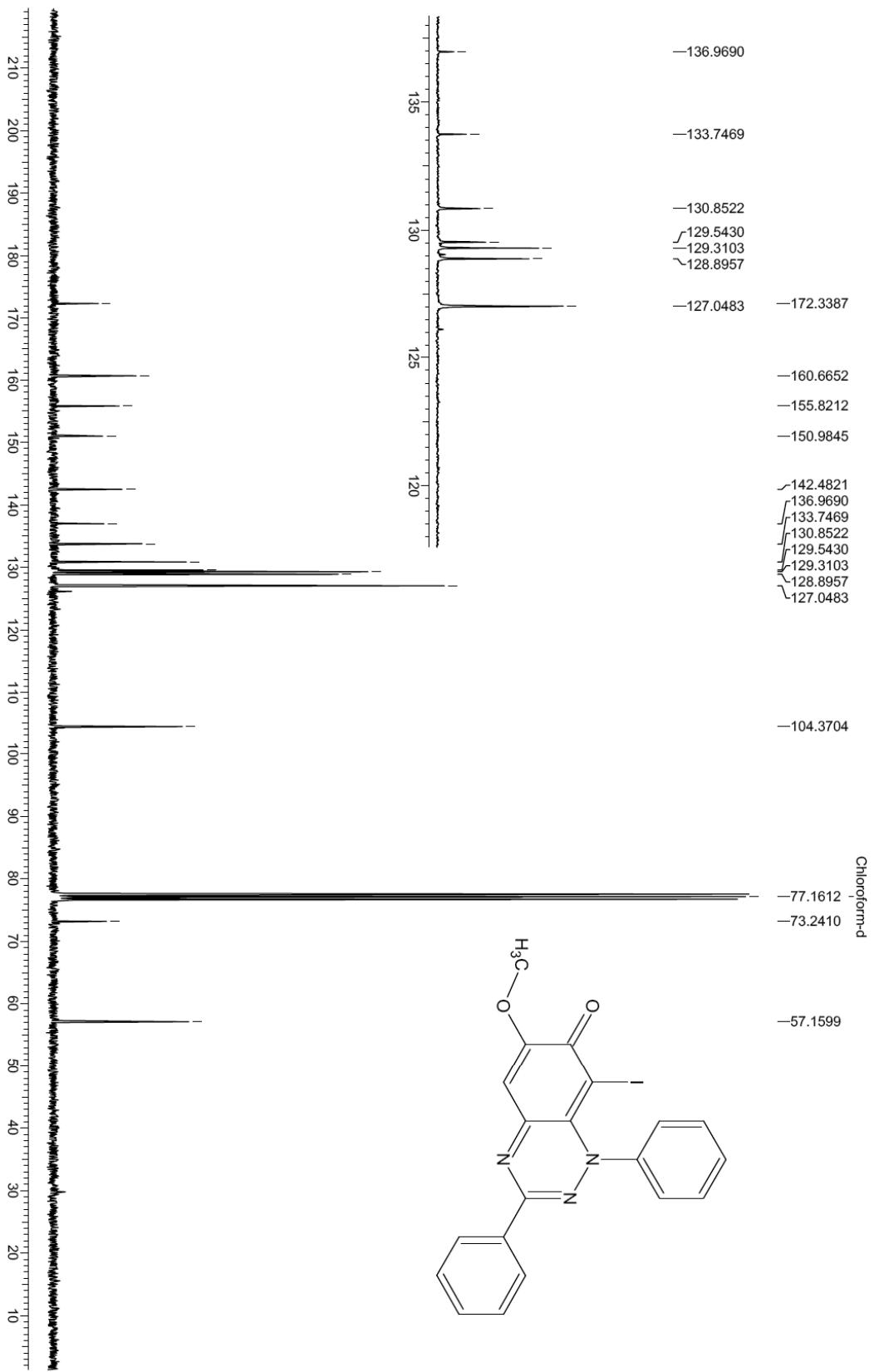
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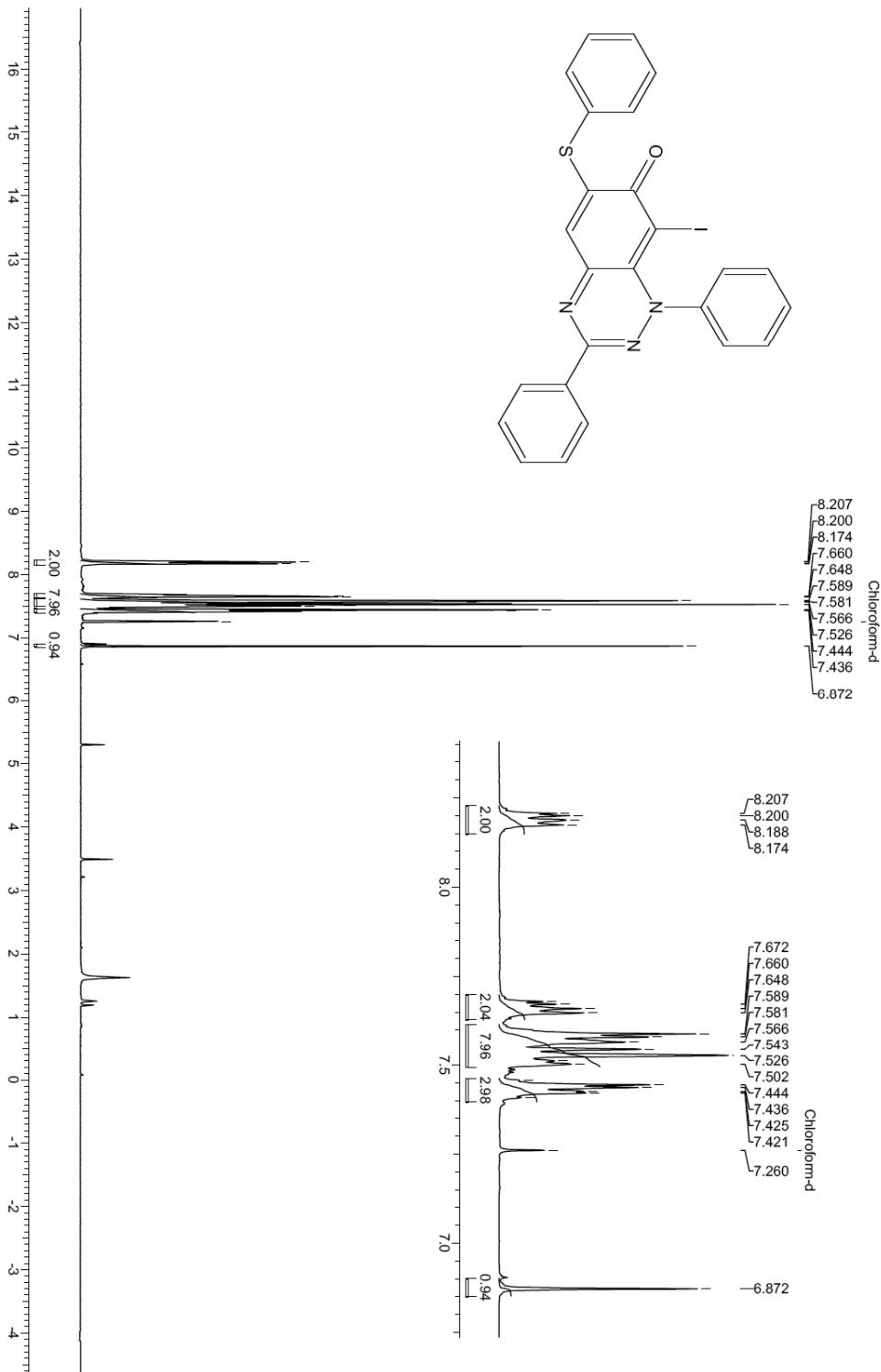
¹H NMR of 8-Iodo-6-methoxy-1,3-diphenylbenzo[e][1,2,4]triazin-7(1H)-one (7d)



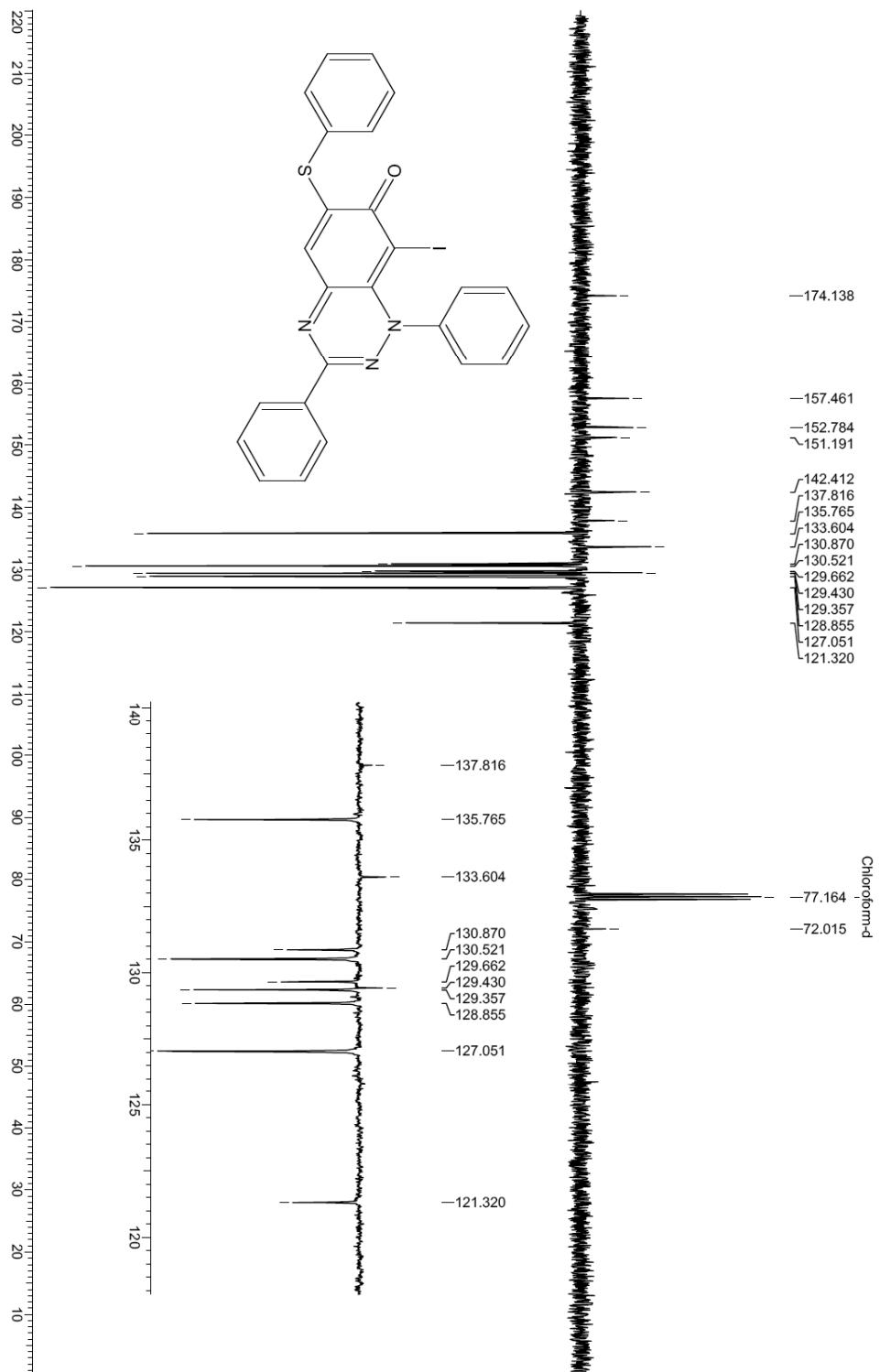
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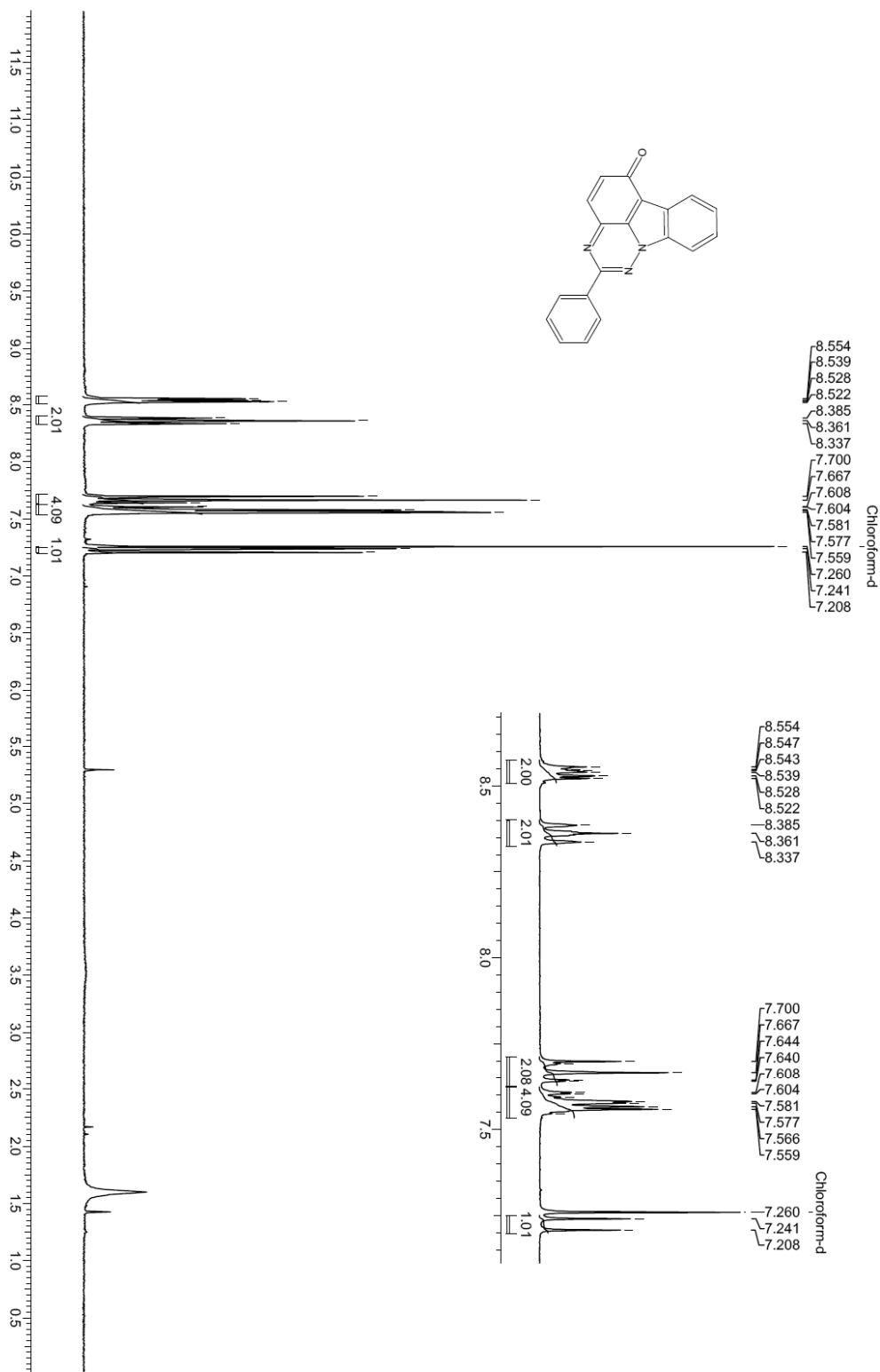
¹H NMR of 8-Iodo-1,3-diphenyl-6-(phenylthio)benzo[e][1,2,4]triazin-7(1H)-one
(7e)



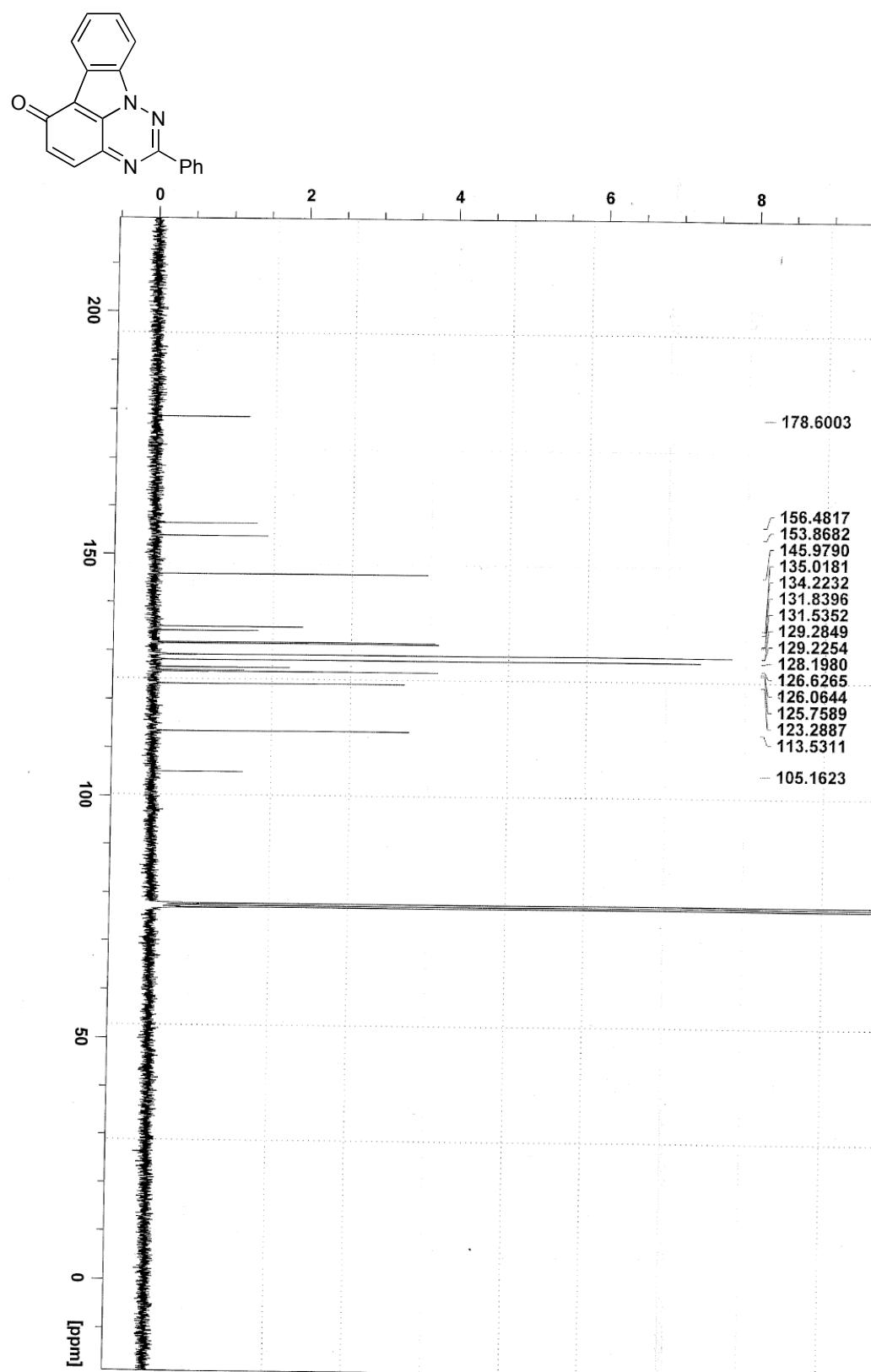
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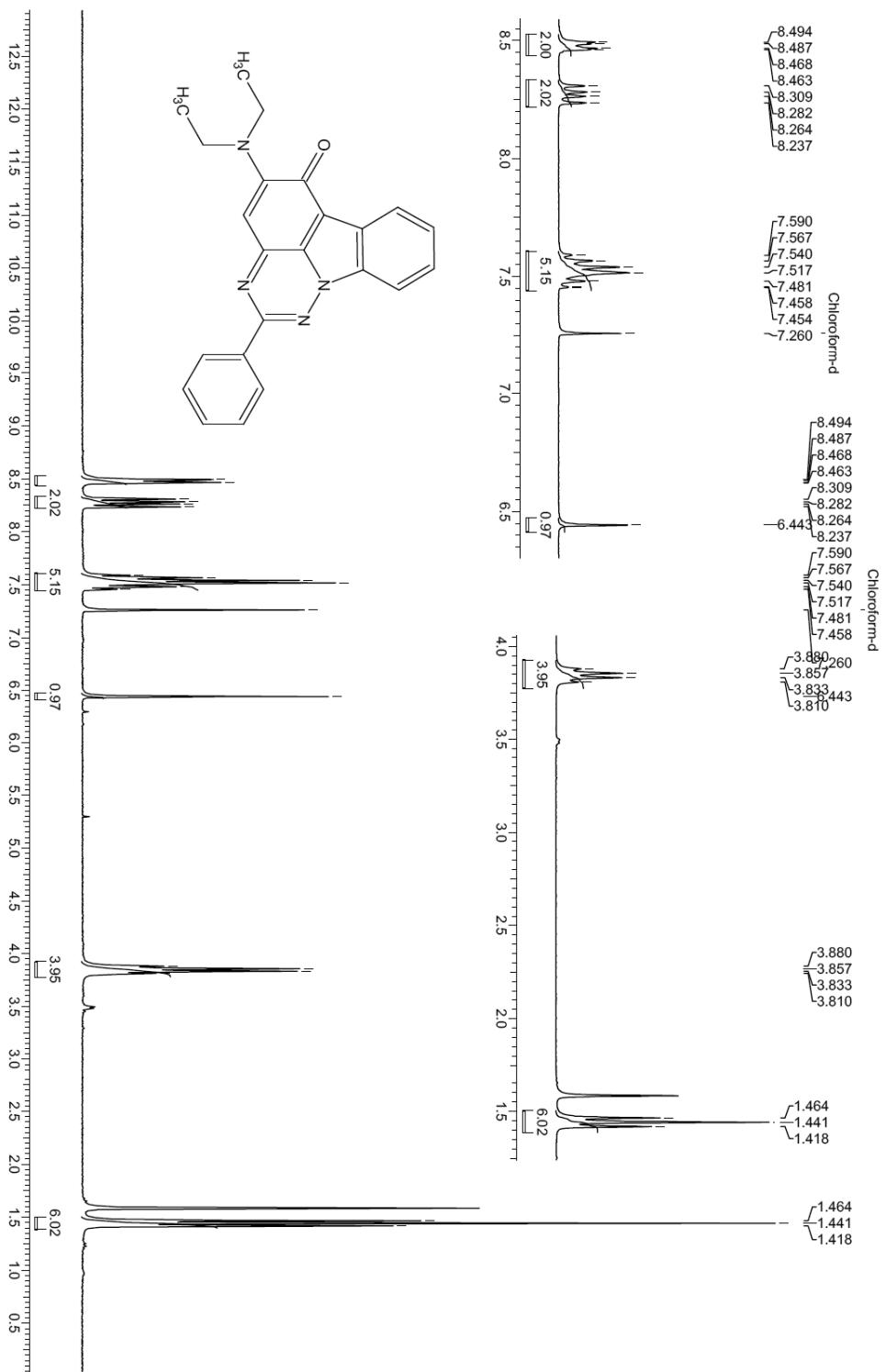
¹H NMR of 2-Phenyl-6H-[1,2,4]triazino[5,6,1-jk]carbazol-6-one (8a)



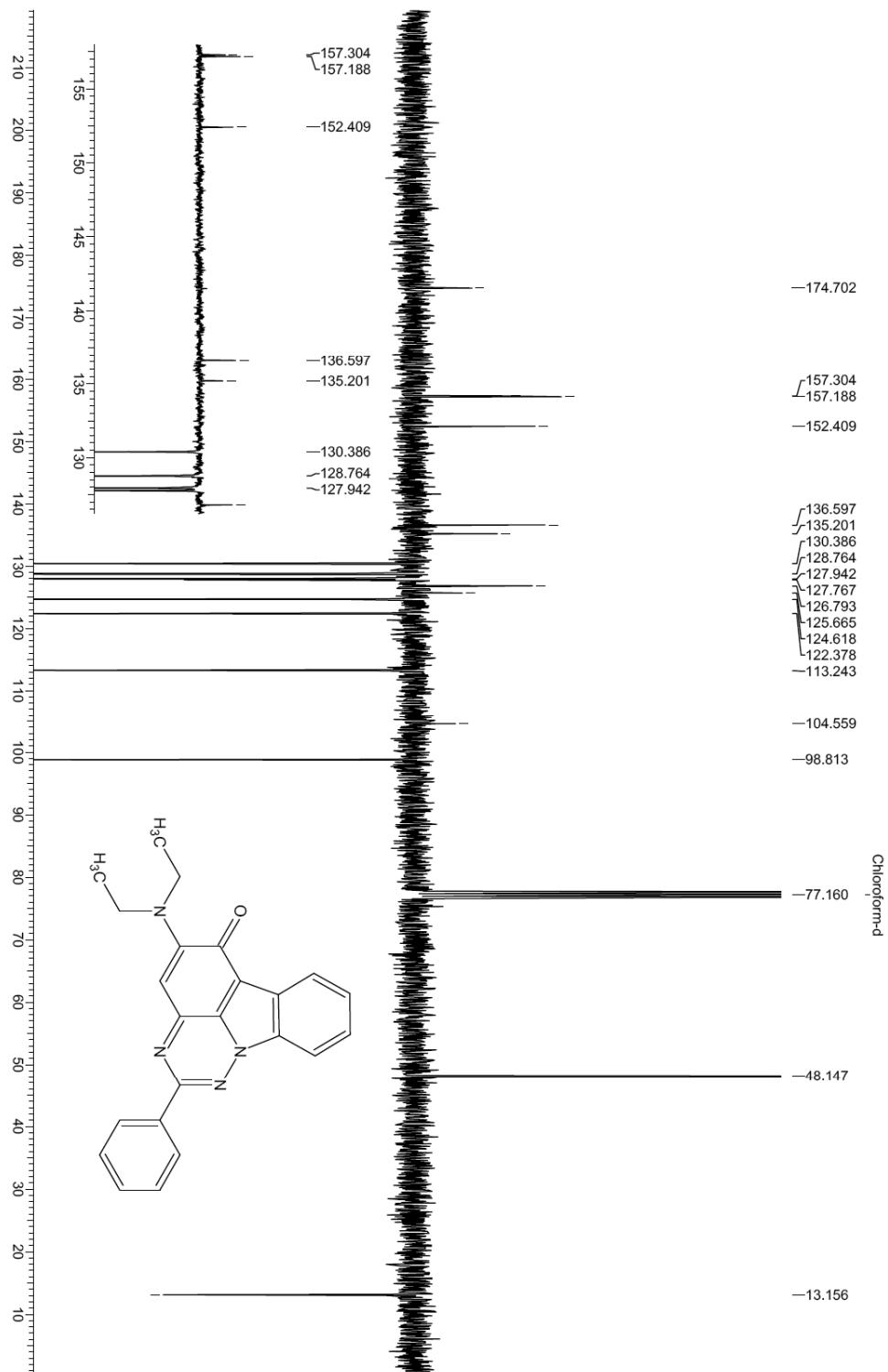
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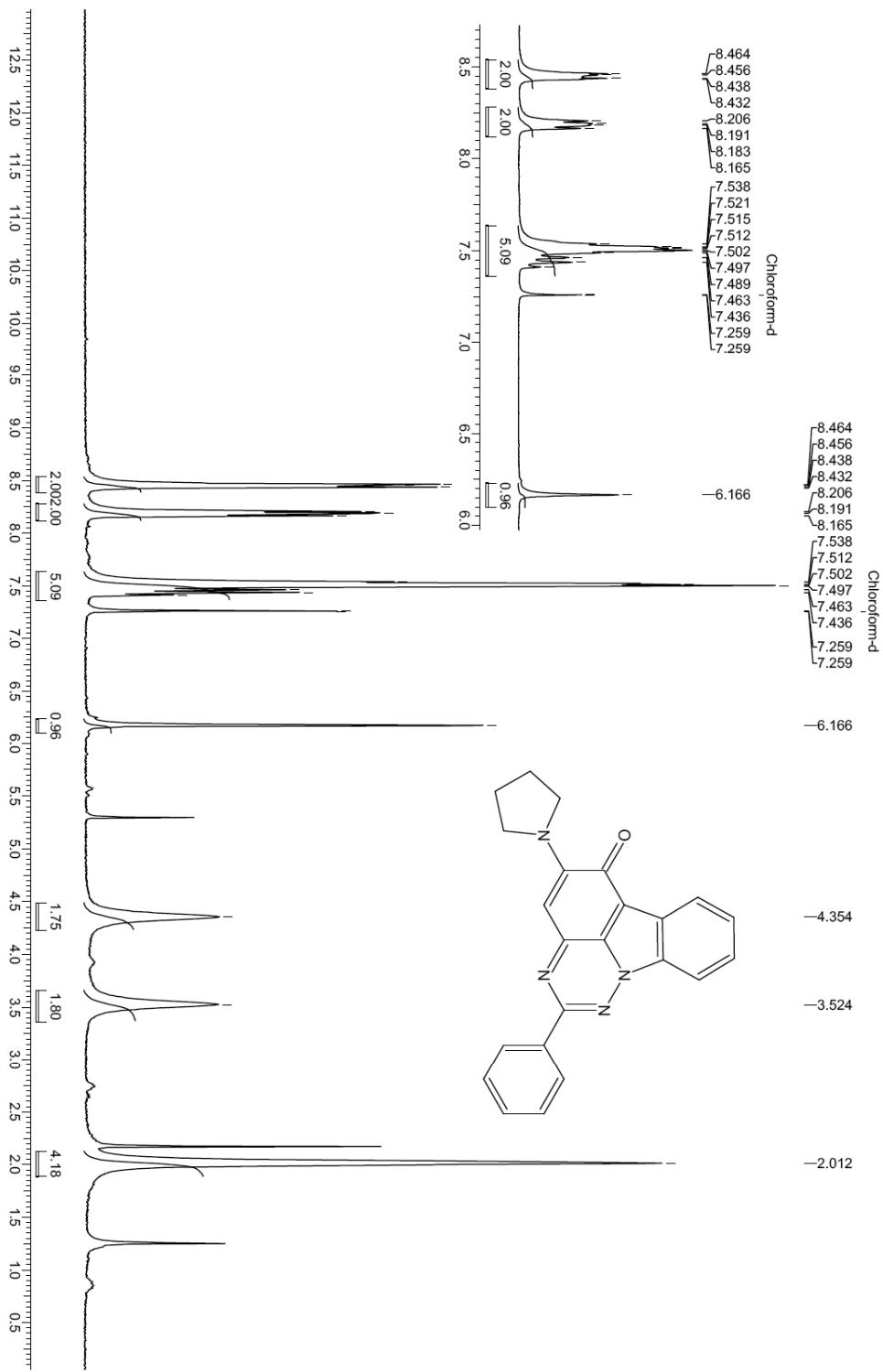
¹H NMR of 5-(Diethylamino)-2-phenyl-6H-[1,2,4]triazino[5,6,1-jk]carbazol-6-one
(8b)



¹³C NMR of 5-(Diethylamino)-2-phenyl-6H-[1,2,4]triazino[5,6,1-*jk*]carbazol-6-one
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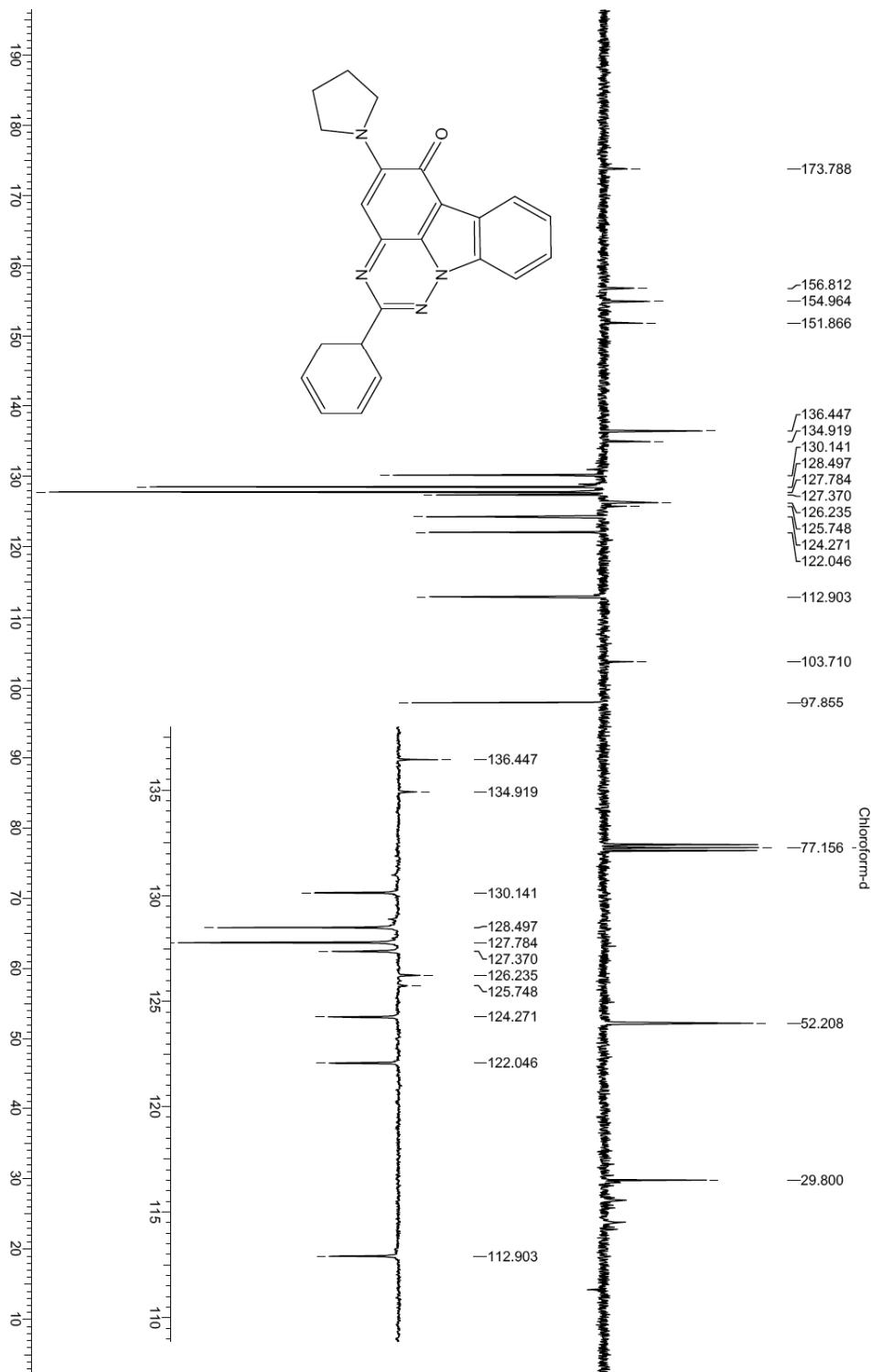


¹H NMR of 2-Phenyl-5-(pyrrolidin-1-yl)-6H-[1,2,4]triazino[5,6,1-*jk*]carbazol-6-one
(8c)

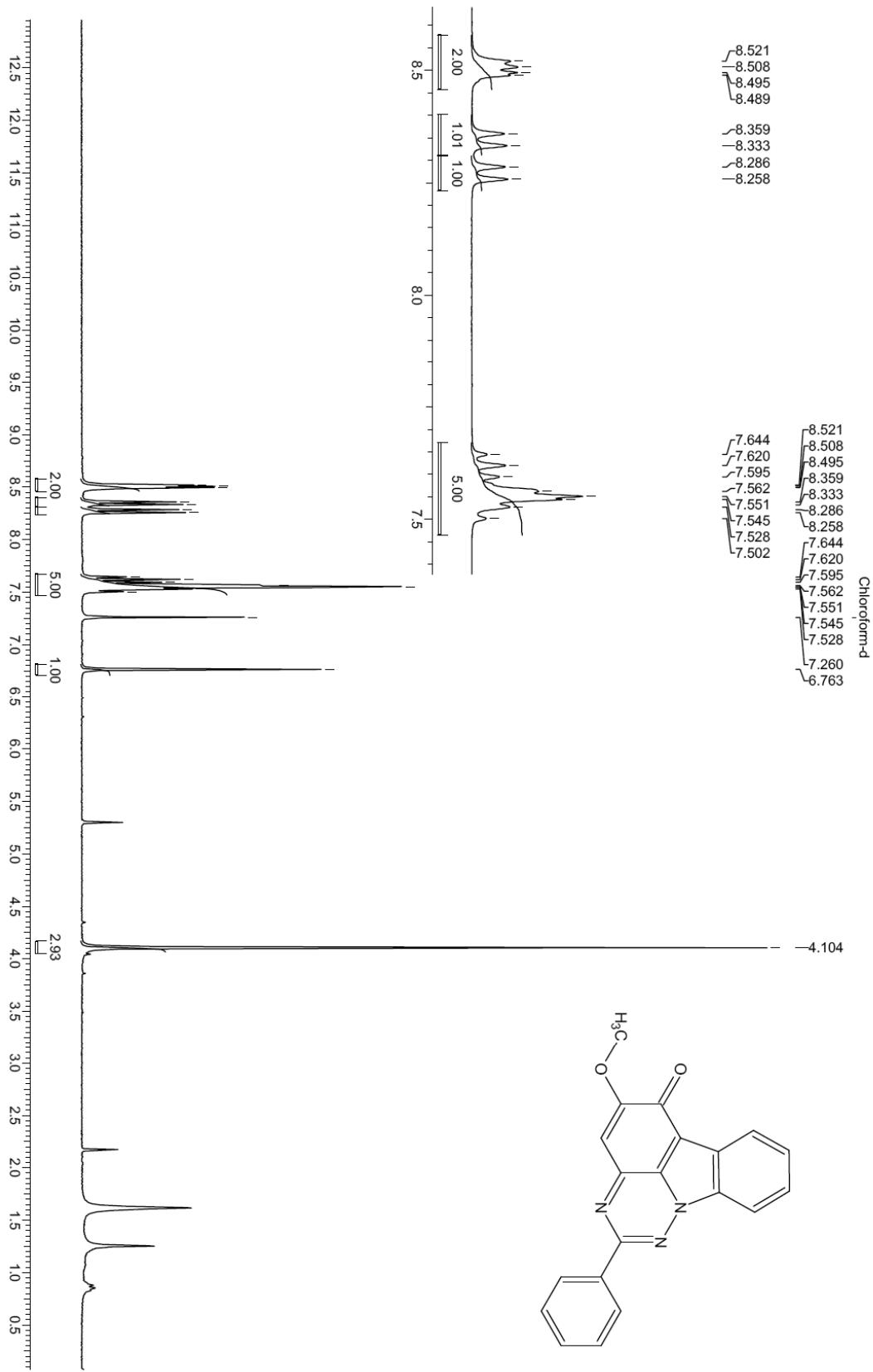


¹³C NMR of 2-Phenyl-5-(pyrrolidin-1-yl)-6H-[1,2,4]triazino[5,6,1-jk]carbazol-6-one

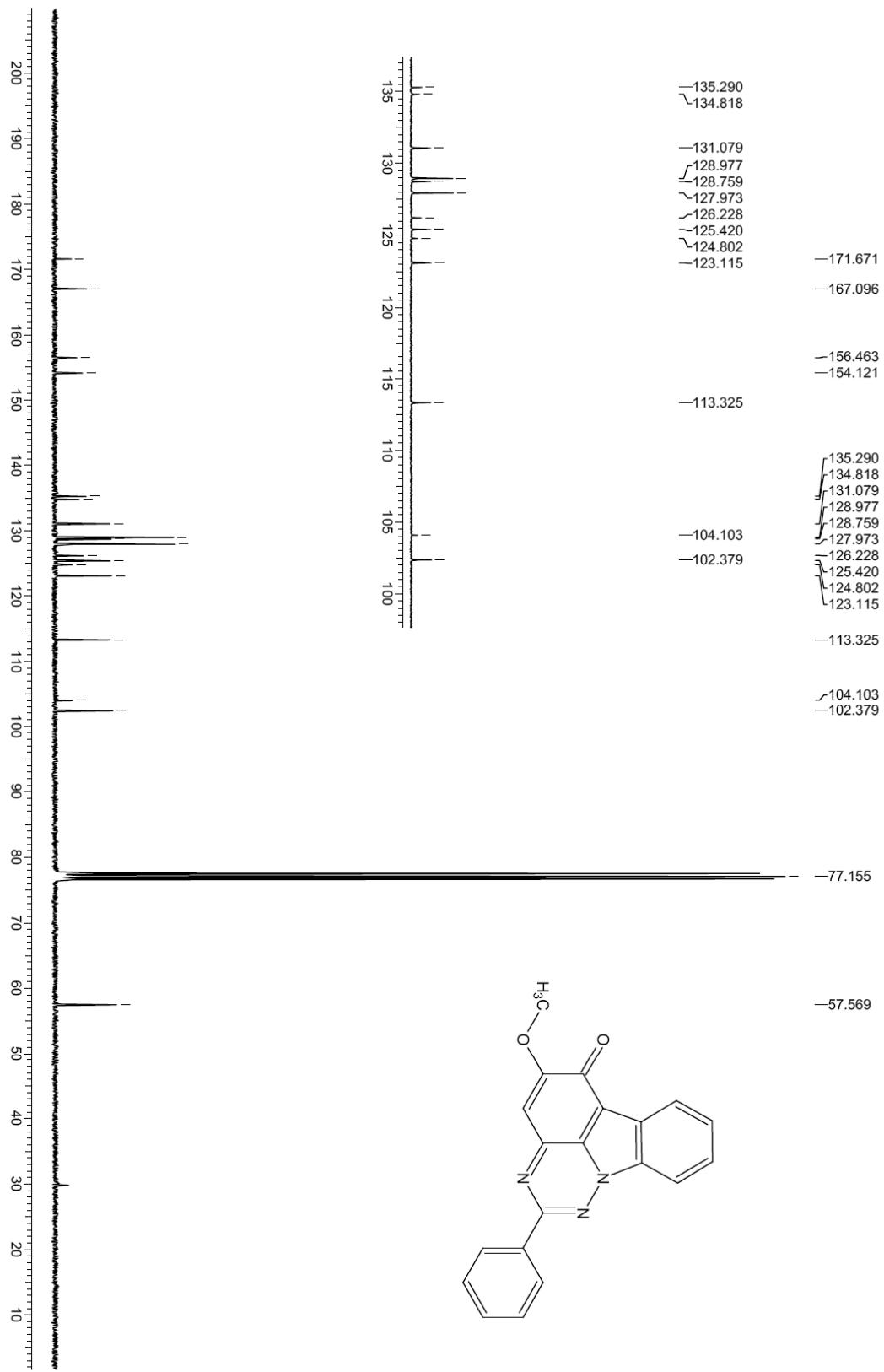
(8c)



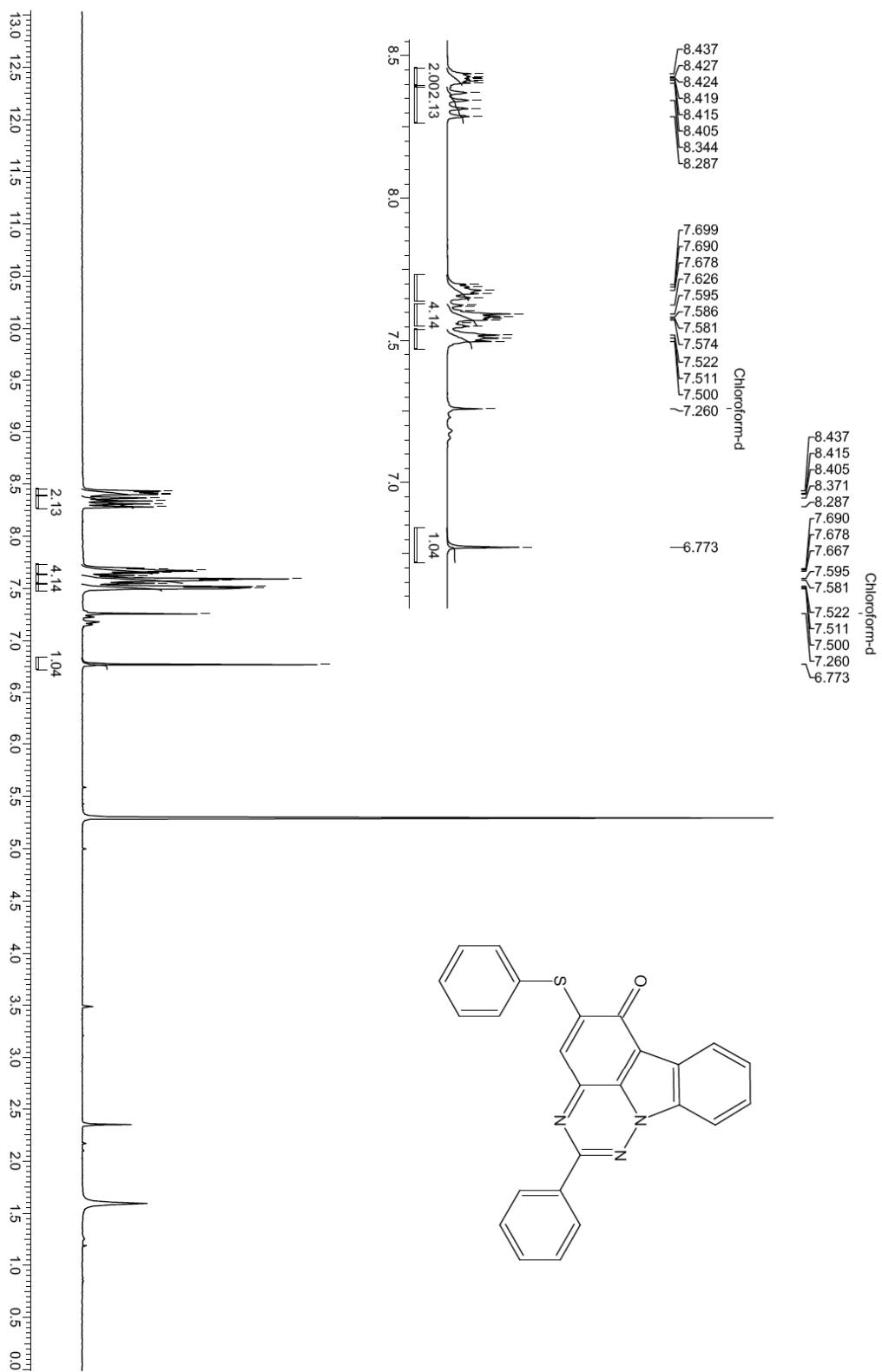
¹H NMR of 5-Methoxy-2-phenyl-6H-[1,2,4]triazino[5,6,1-jk]carbazol-6-one (8d)



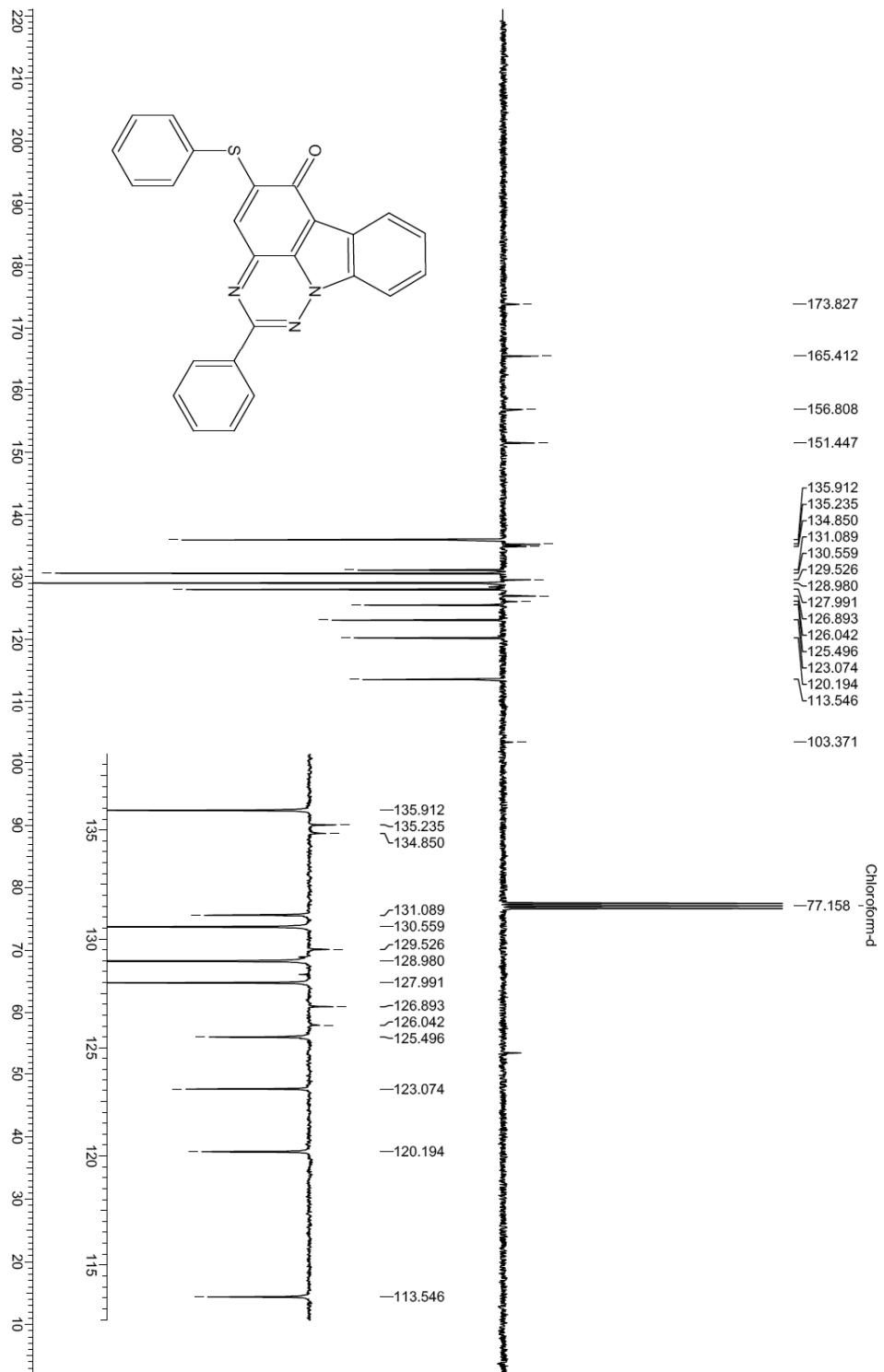
¹³C NMR of 5-Methoxy-2-phenyl-6H-[1,2,4]triazino[5,6,1-jk]carbazol-6-one (8d)



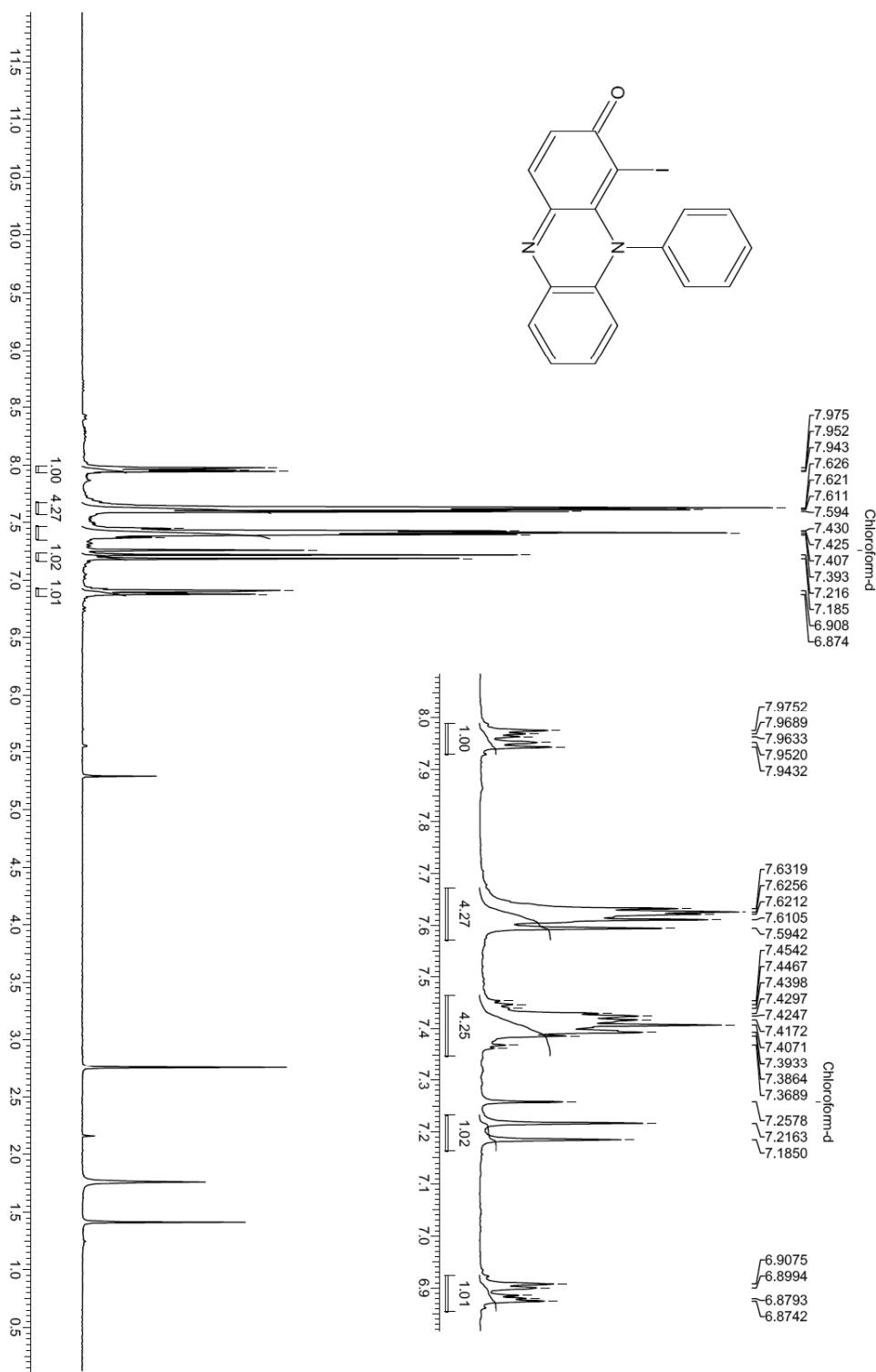
¹H NMR of 2-Phenyl-5-(phenylthio)-6H-[1,2,4]triazino[5,6,1-*jk*]carbazol-6-one (8e)



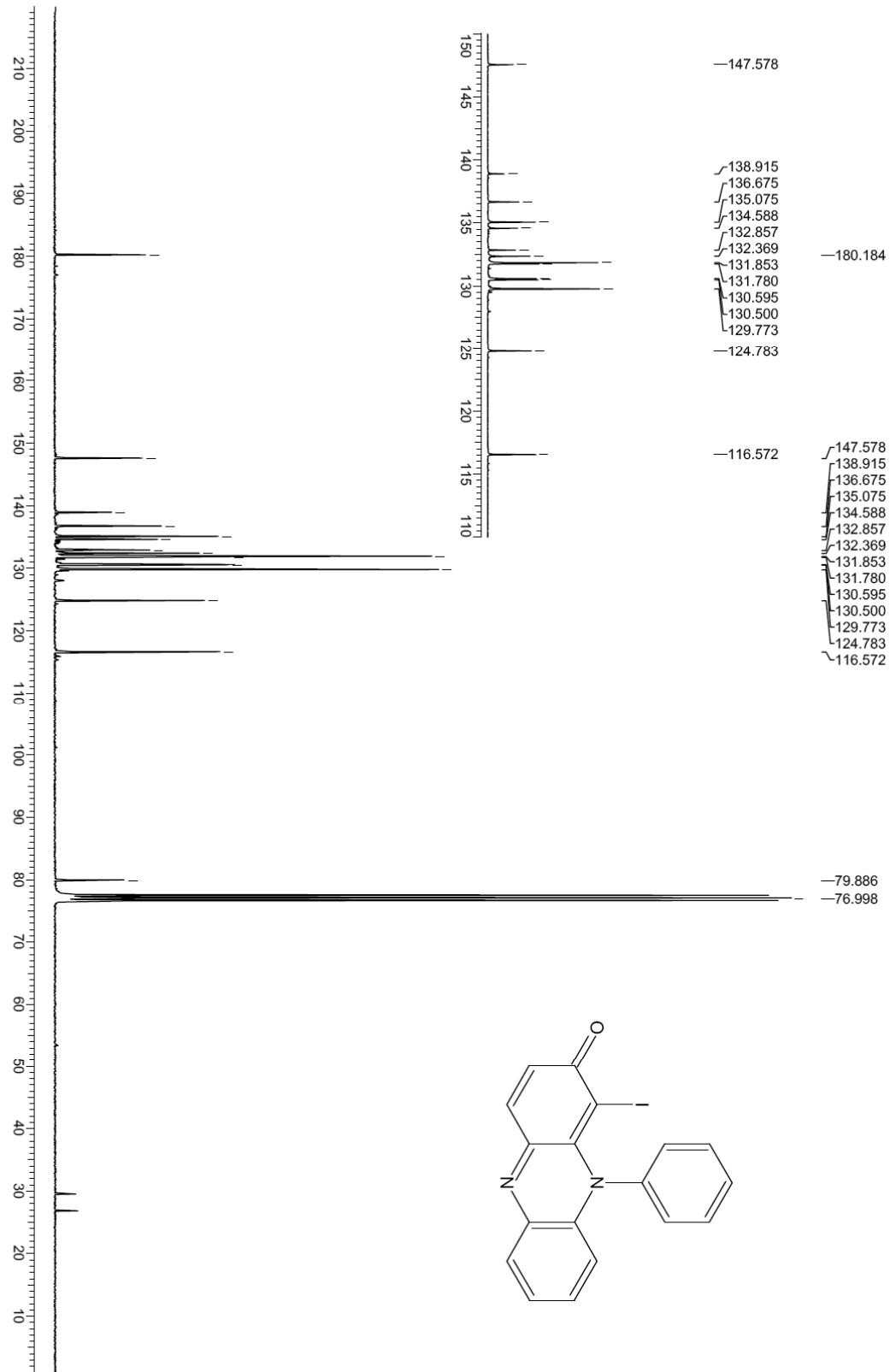
¹³C NMR of 2-Phenyl-5-(phenylthio)-6H-[1,2,4]triazino[5,6,1-*jk*]carbazol-6-one
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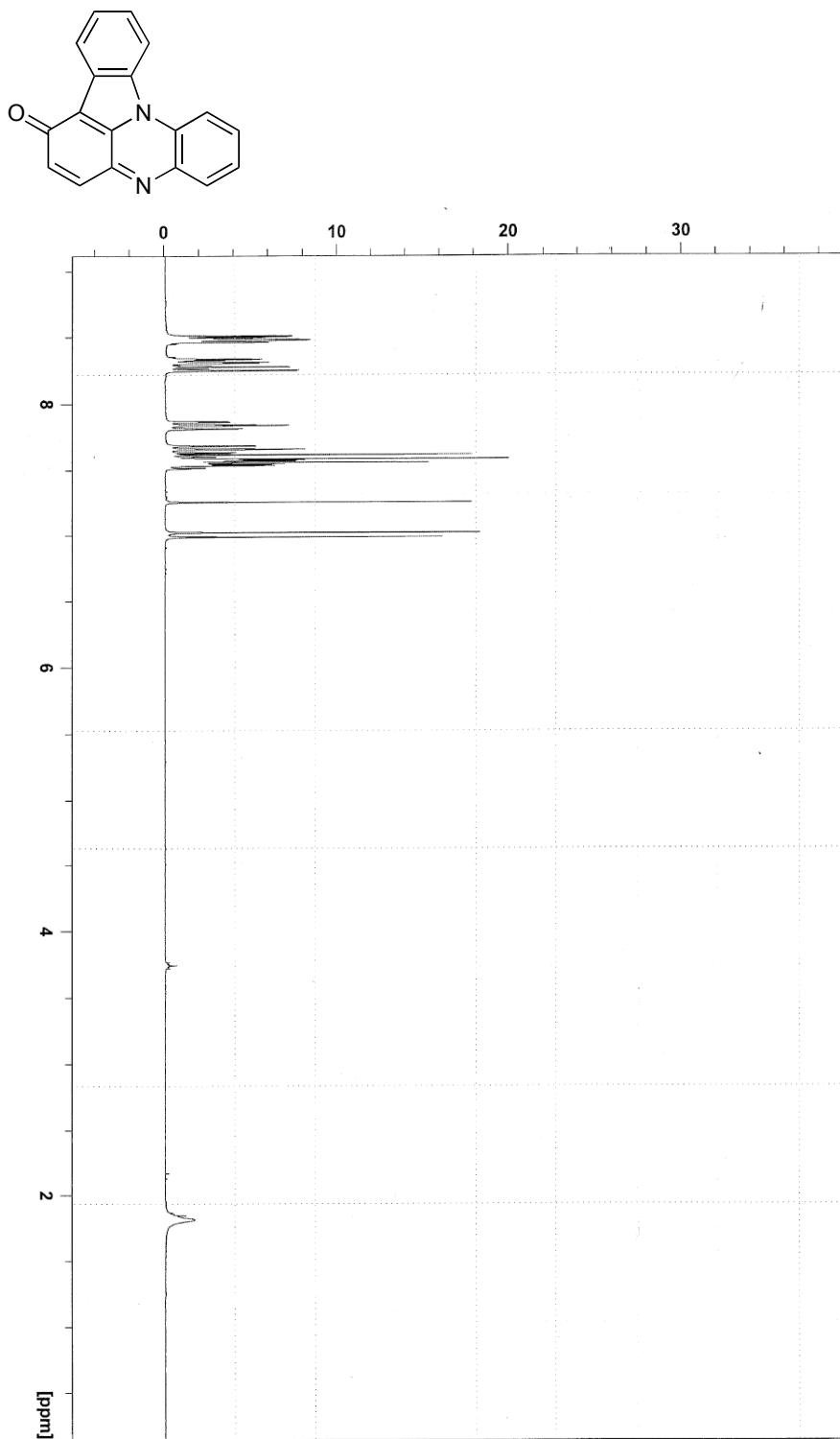
¹H NMR of 8,10-Dihydro-1-iodo-10-phenylphenazin-2(7H)-one (13)



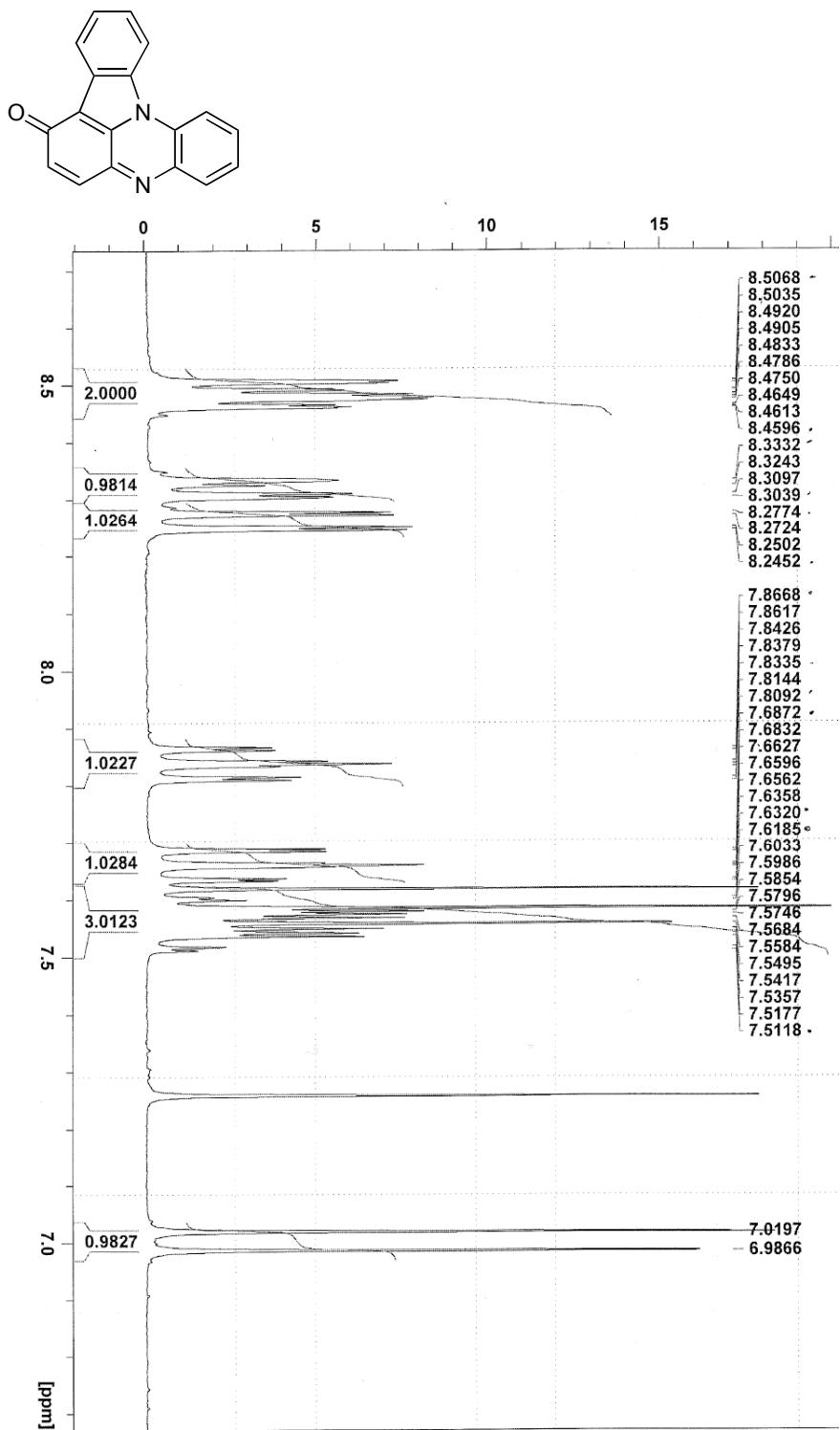
¹³C NMR of 8,10-Dihydro-1-iodo-10-phenylphenazin-2(7H)-one (13)



¹H NMR of 8H-Indolo[1,2,3-*mn*]phenazin-8-one (14)



¹H NMR of 8H-Indolo[1,2,3-*mn*]phenazin-8-one (14)



¹³C NMR of 8H-Indolo[1,2,3-*mn*]phenazin-8-one (**14**)

