

Fig. (1): IR Spectrum of Compound (3)

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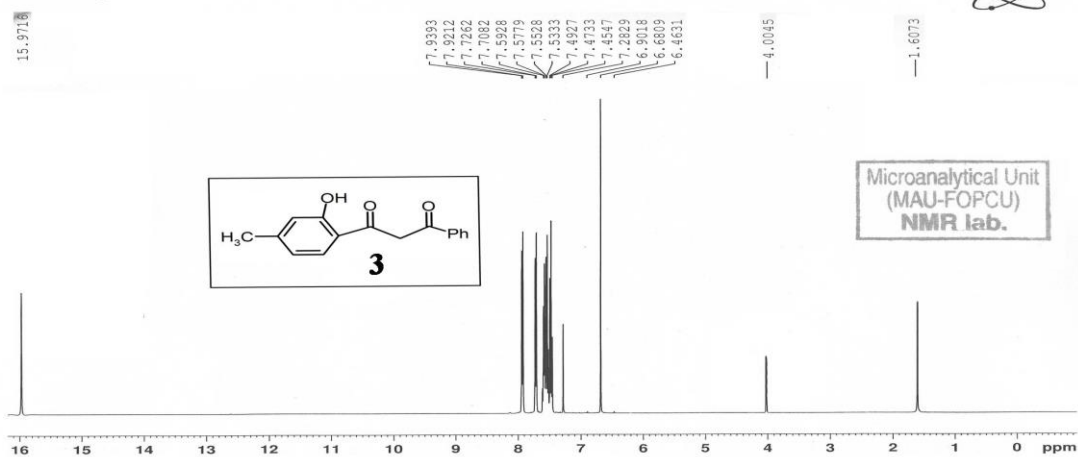


Fig. (2): ¹H-NMR Spectrum of Compound (3)(CDCl₃)

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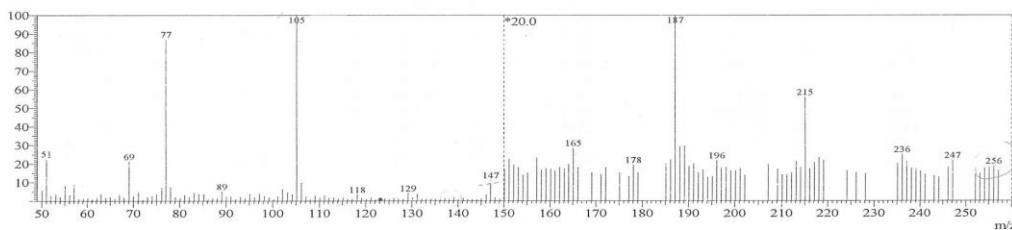


Fig. (3): Mass Spectrum of Compound (3)

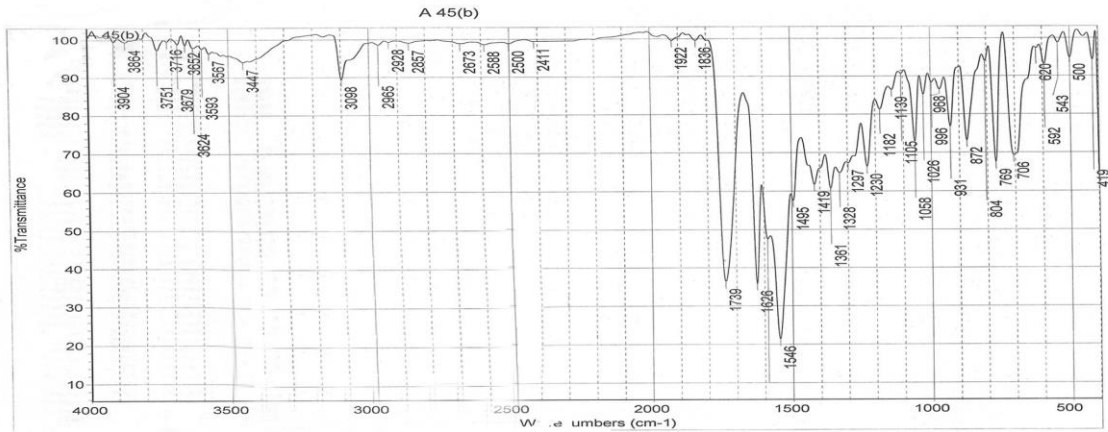


Fig. (4): IR Spectrum of Compound (4)

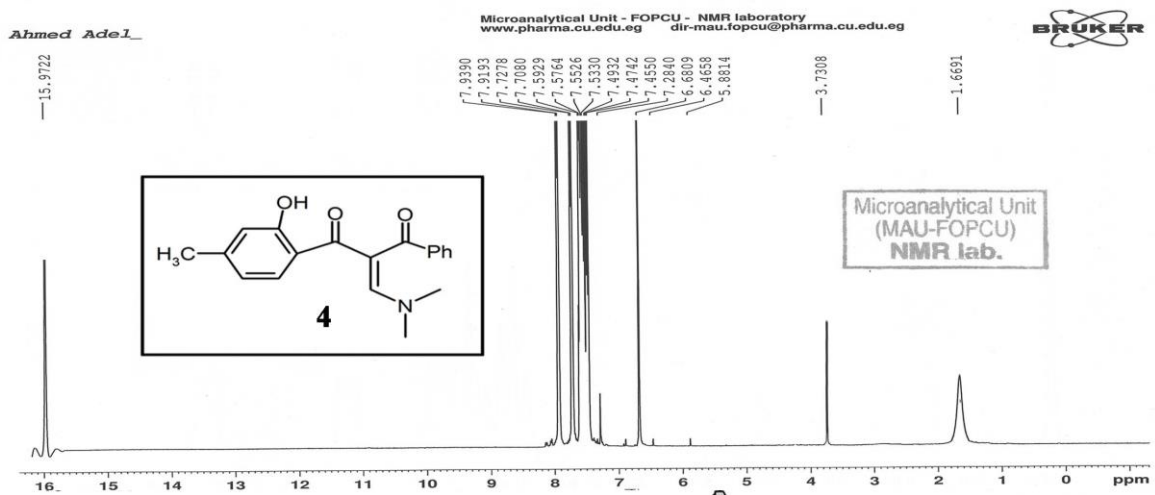


Fig / 5 \. ¹H-NMR Spectrum of Compound (4).....(CDCl₃)

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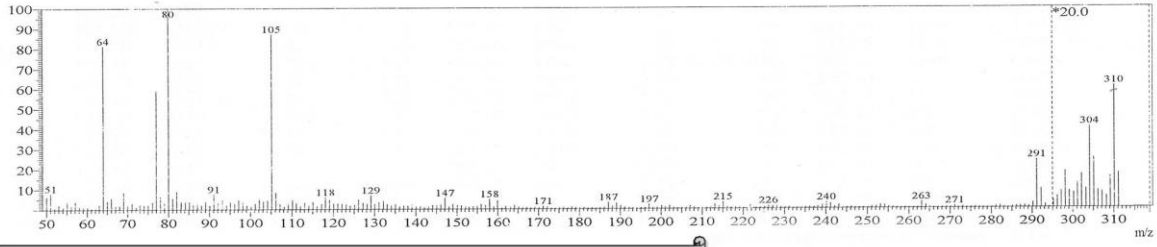


Fig. (6): Mass Spectrum of Compound (4)

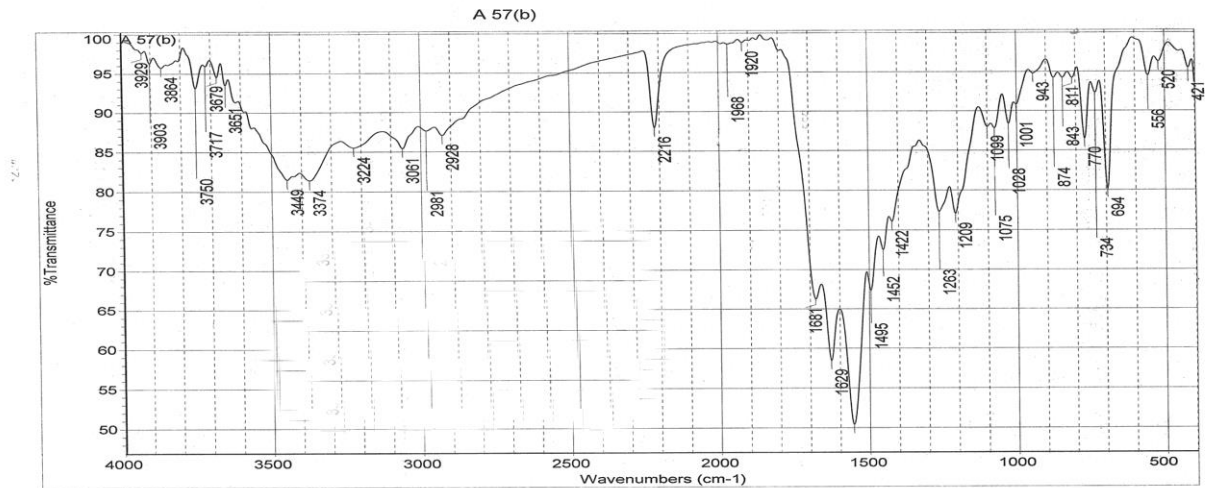


Fig. (7): IR Spectrum of Compound (8)

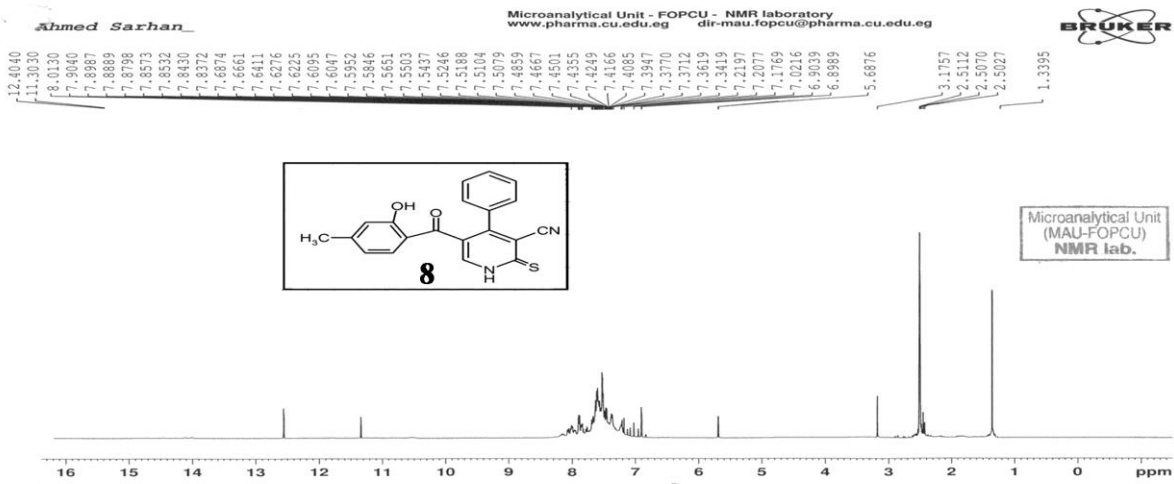


Fig. (8): ¹H-NMR Spectrum of Compound (8).....(DMSO)

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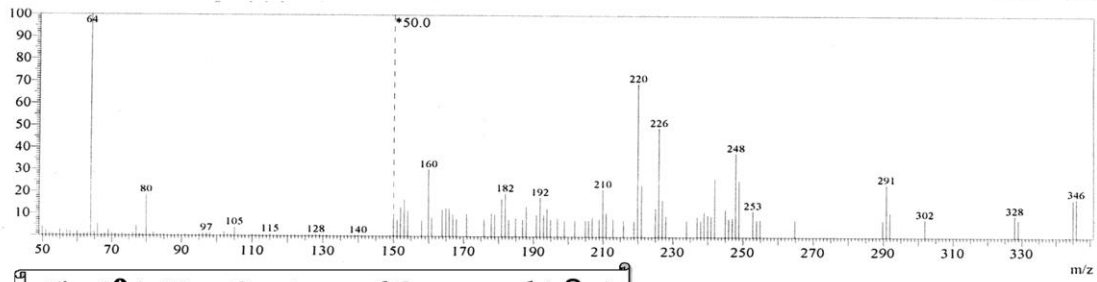


Fig. (9): Mass Spectrum of Compound (8)

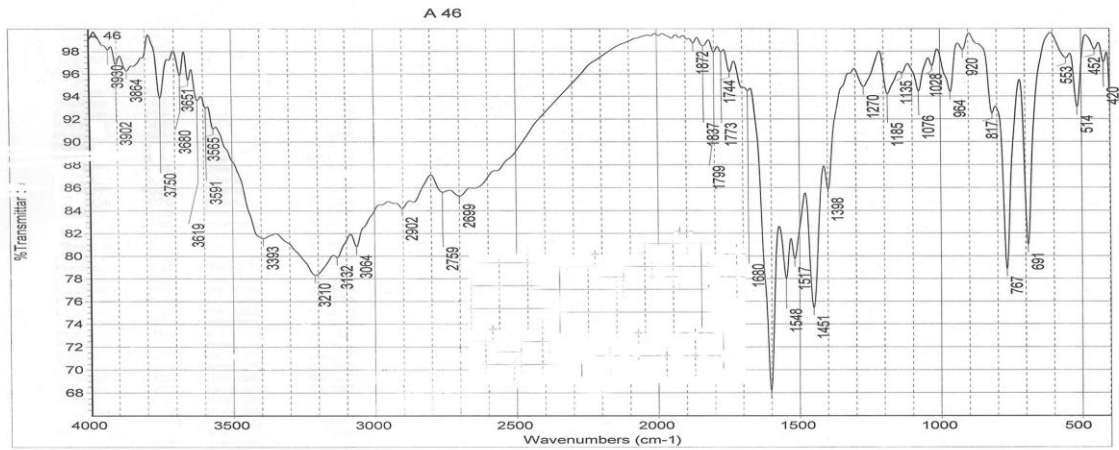


Fig. (10): IR Spectrum of Compound (12)

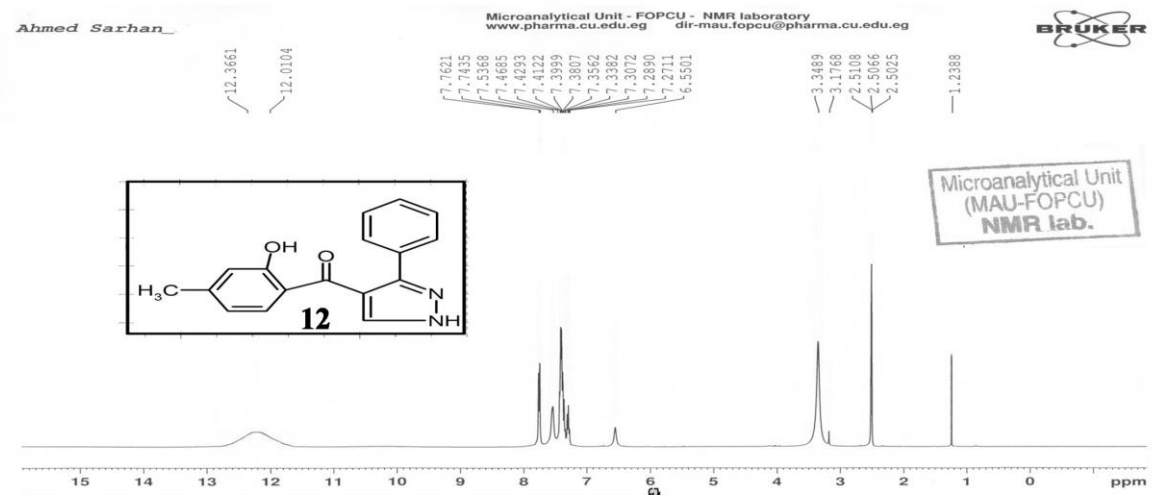


Fig. (11): ¹H-NMR Spectrum of Compound (12).....(DMSO)

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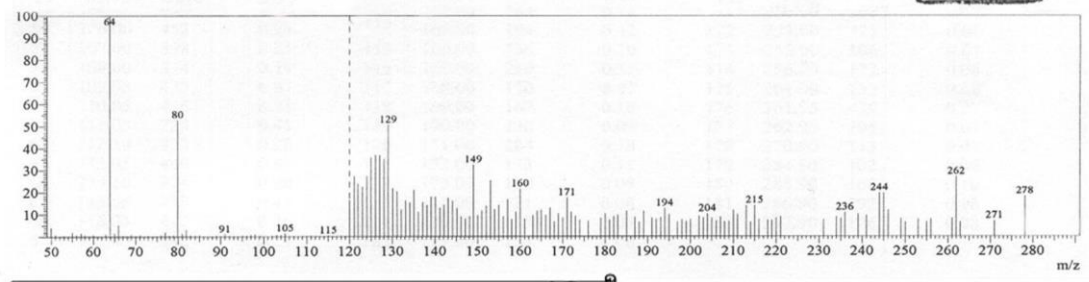


Fig. (12): Mass Spectrum of Compound (12)

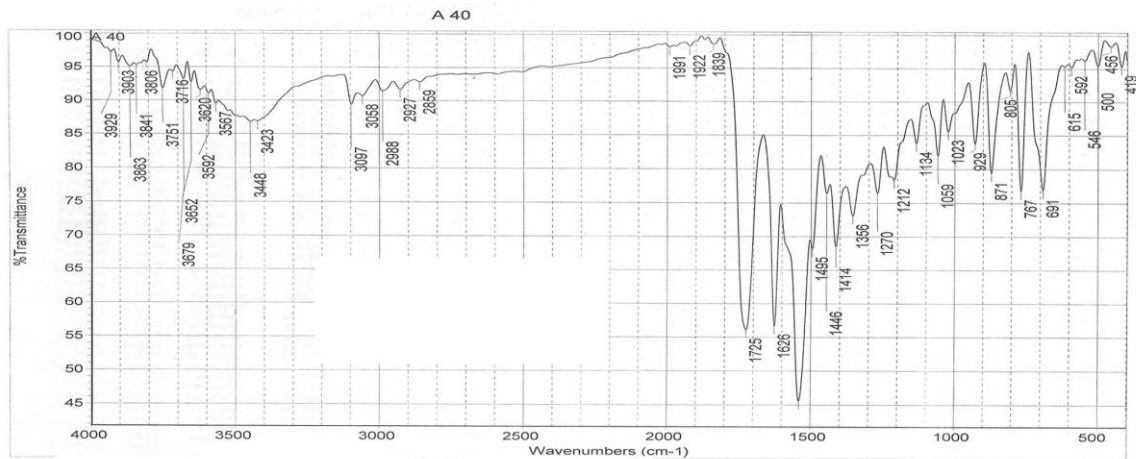


Fig. (13): IR Spectrum of Compound (13)

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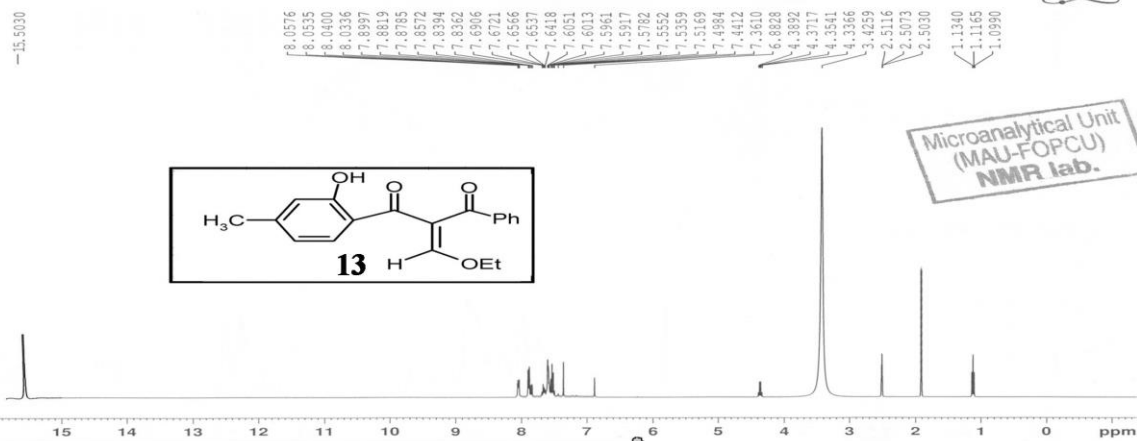


Fig. (14): ¹H-NMR Spectrum of Compound (13).....(DMSO)

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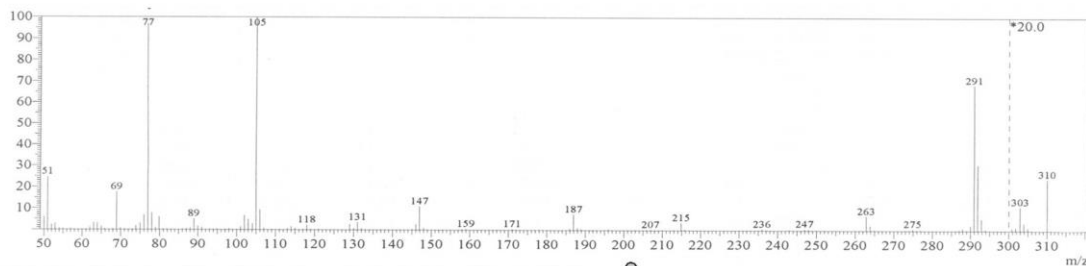


Fig. (15): Mass Spectrum of Compound (13)

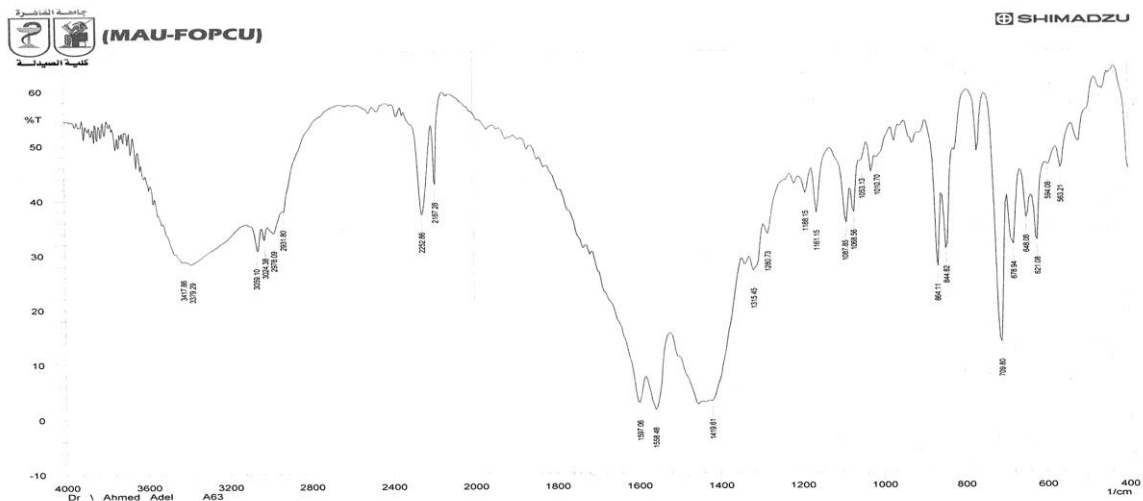


Fig. (16): IR Spectrum of Compound (15a)

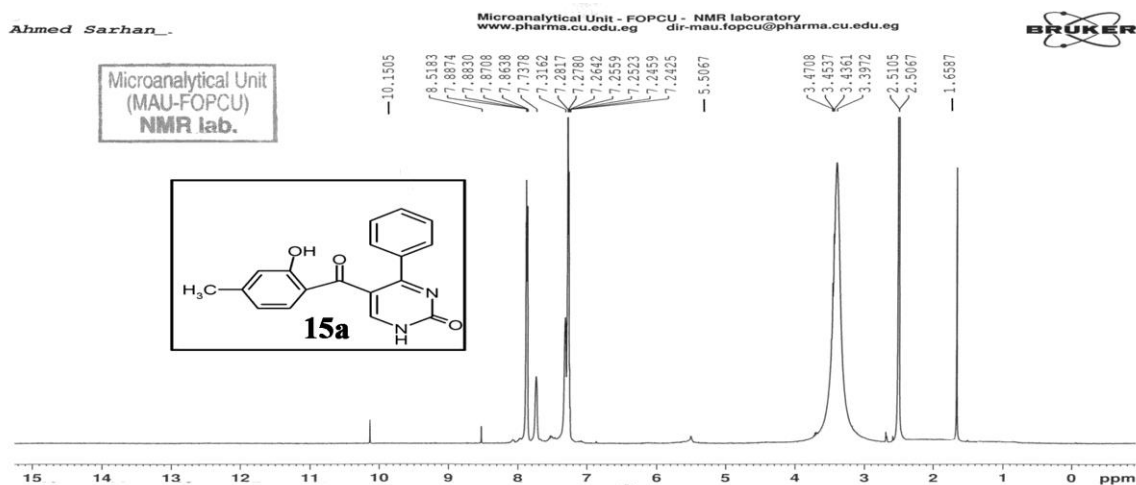


Fig. (17): ¹H-NMR Spectrum of Compound (15a).....(DMSO)

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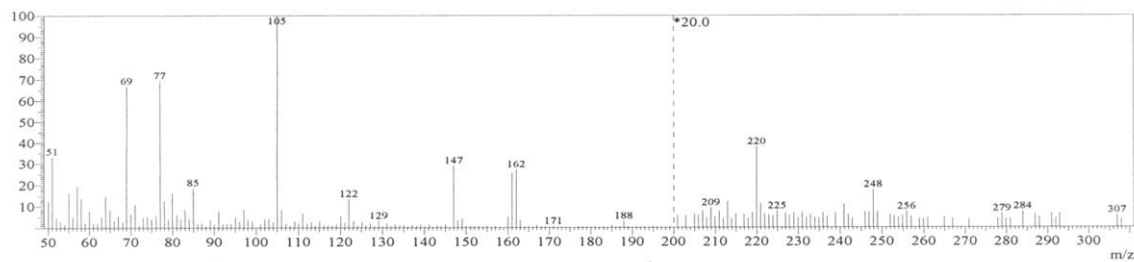


Fig. (18): Mass Spectrum of Compound (15a)

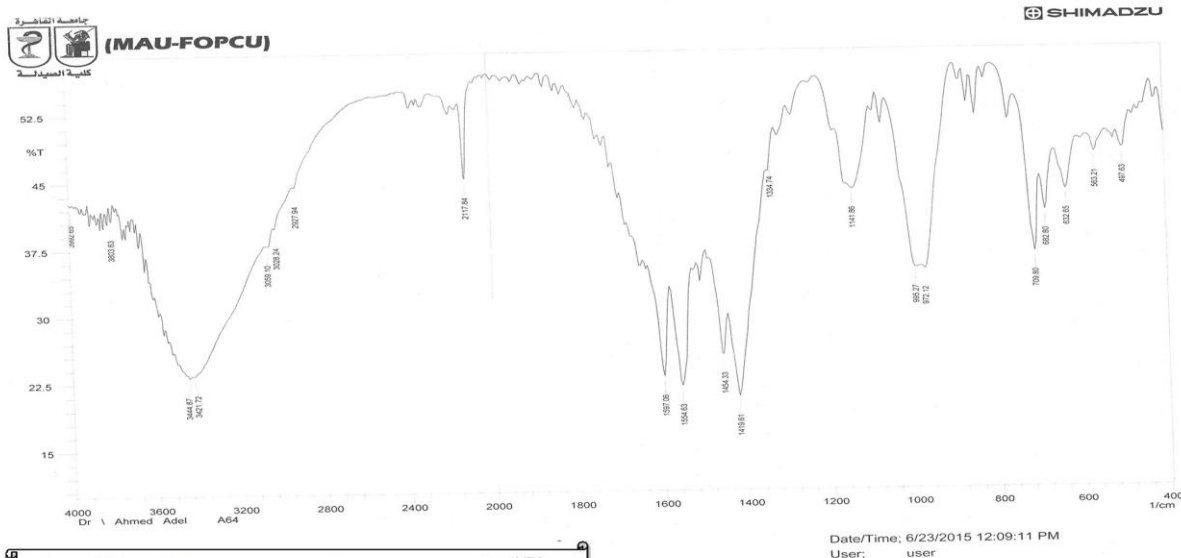


Fig. (19): IR Spectrum of Compound (15b)

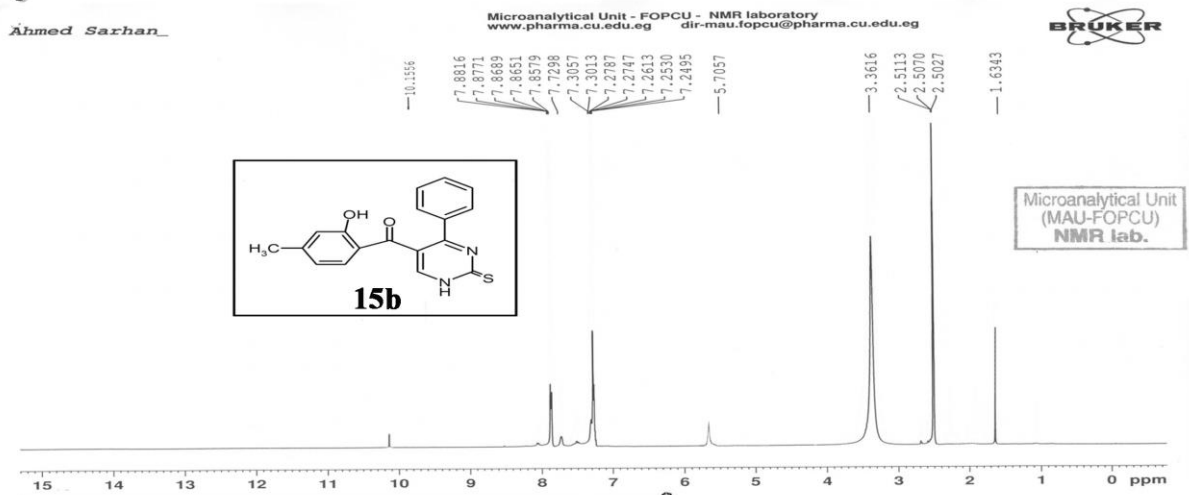


Fig. (20): ¹H-NMR Spectrum of Compound (15b).....(DMSO)

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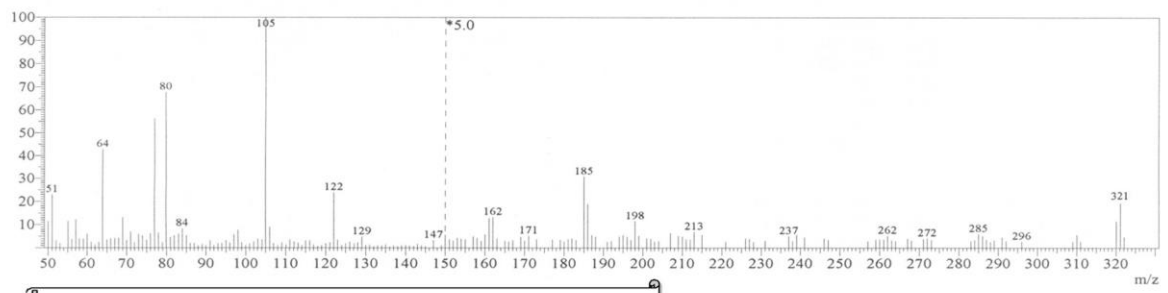


Fig. (21): Mass Spectrum of Compound (15b)

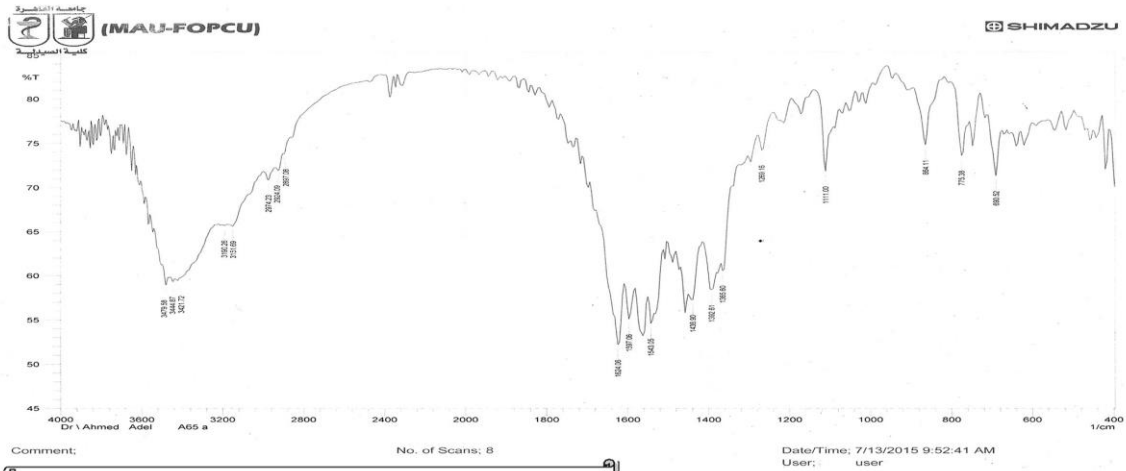


Fig. (22): IR Spectrum of Compound (17)

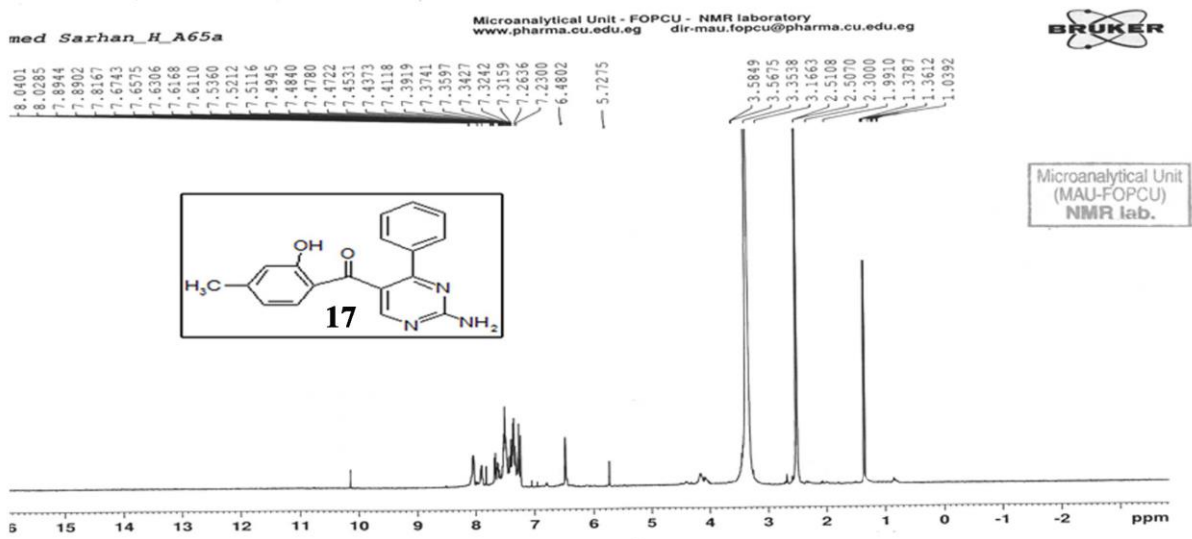


Fig. (23) ¹H-NMR Spectrum of Compound (17).....(DMSO)

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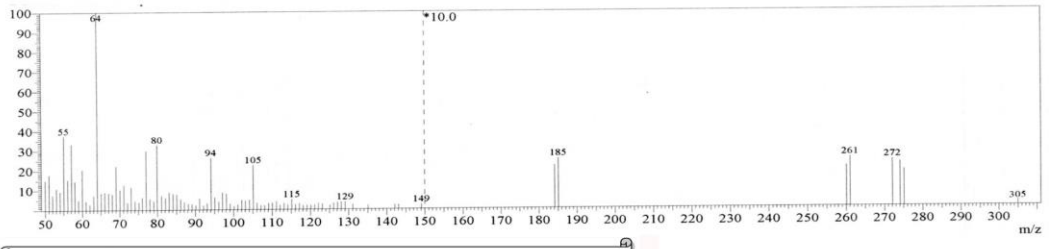


Fig. (24): Mass Spectrum of Compound (17)

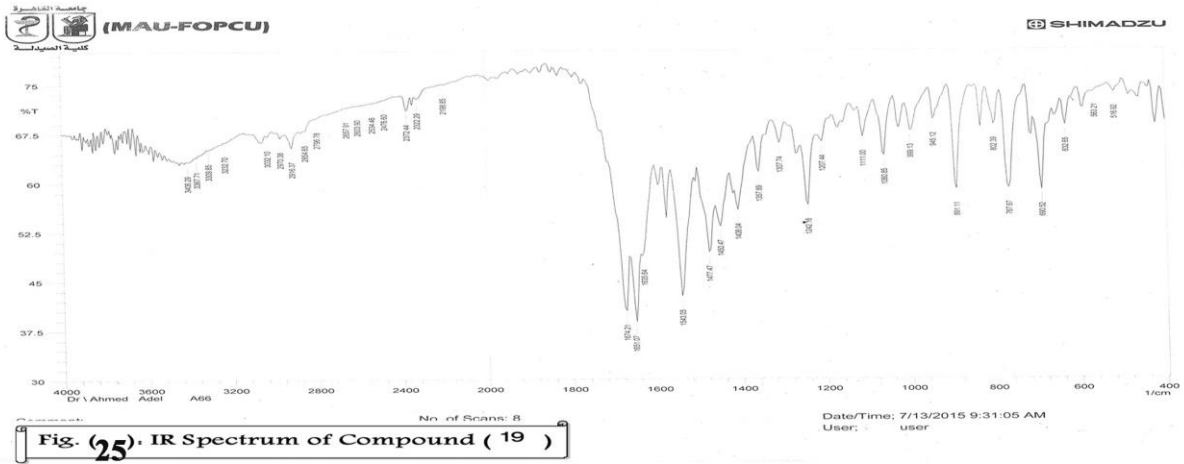


Fig. (25). IR Spectrum of Compound (19)

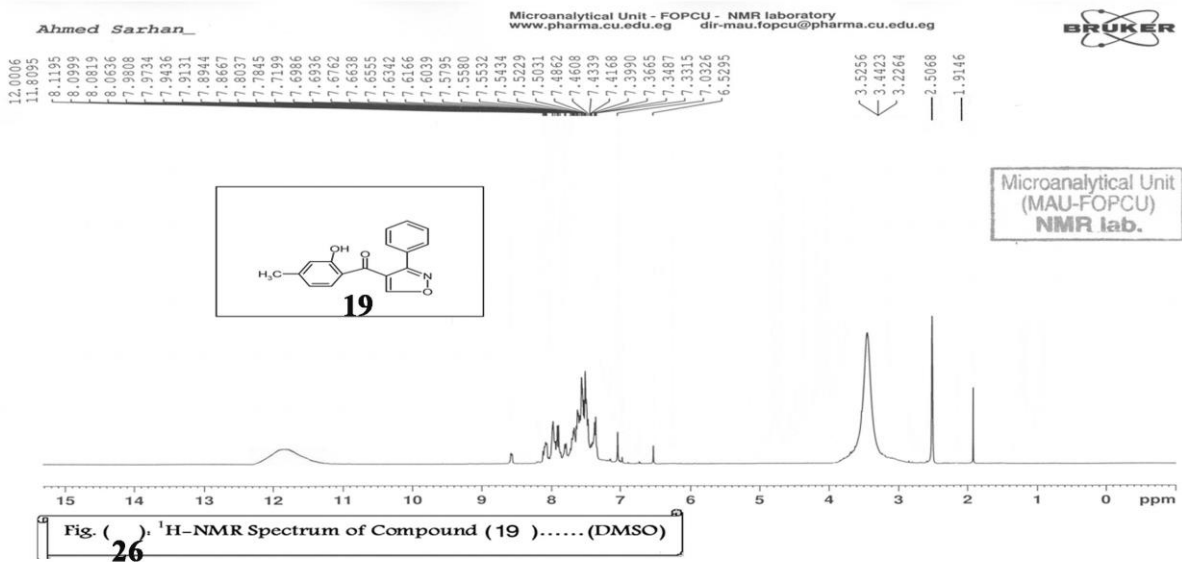


Fig. (26). ¹H-NMR Spectrum of Compound (19) (DMSO)

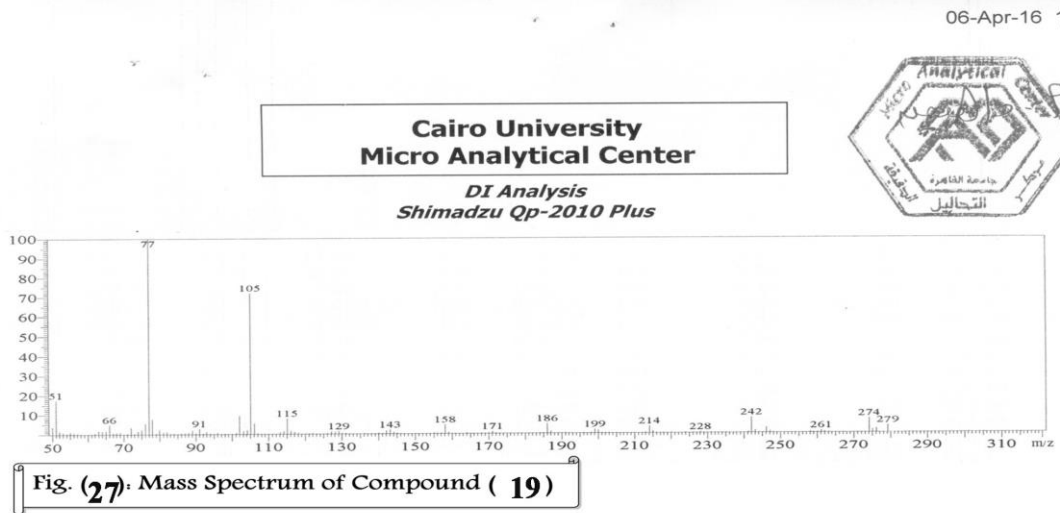


Fig. (27). Mass Spectrum of Compound (19)

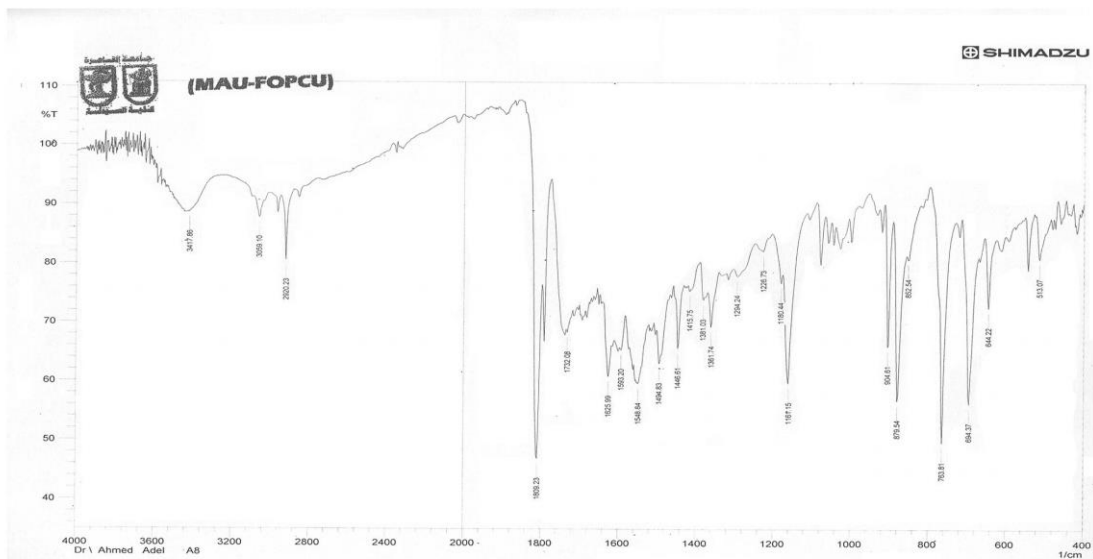


Fig. (28): IR Spectrum of Compound (20)

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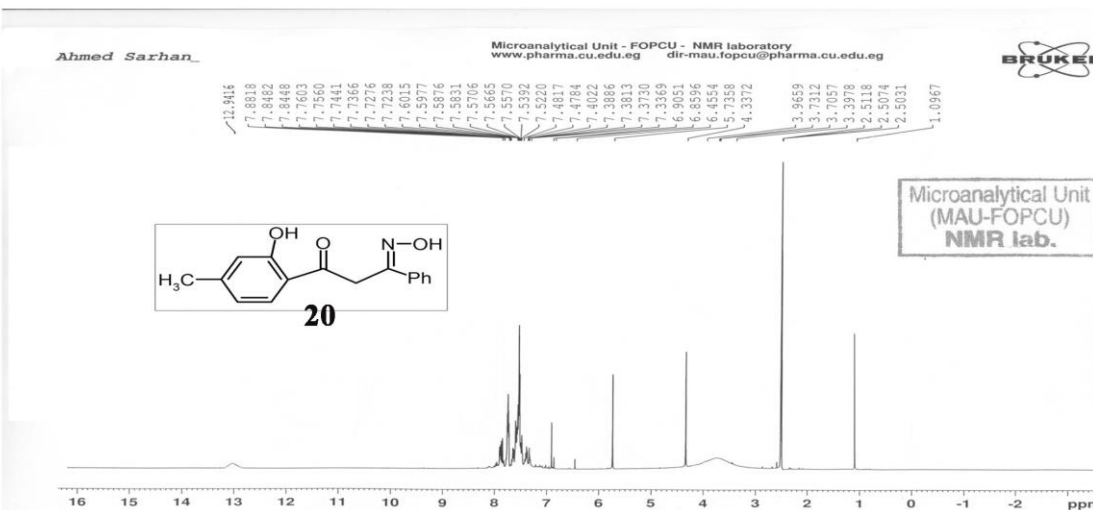


Fig. (29): ¹H-NMR Spectrum of Compound (20).....(DMSO)

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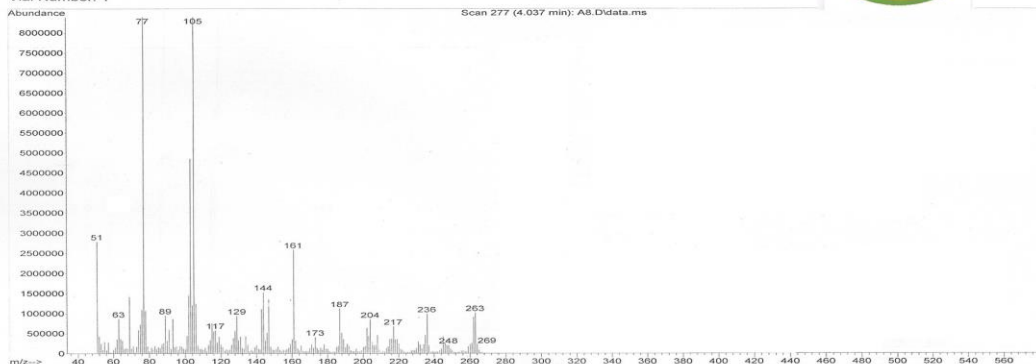
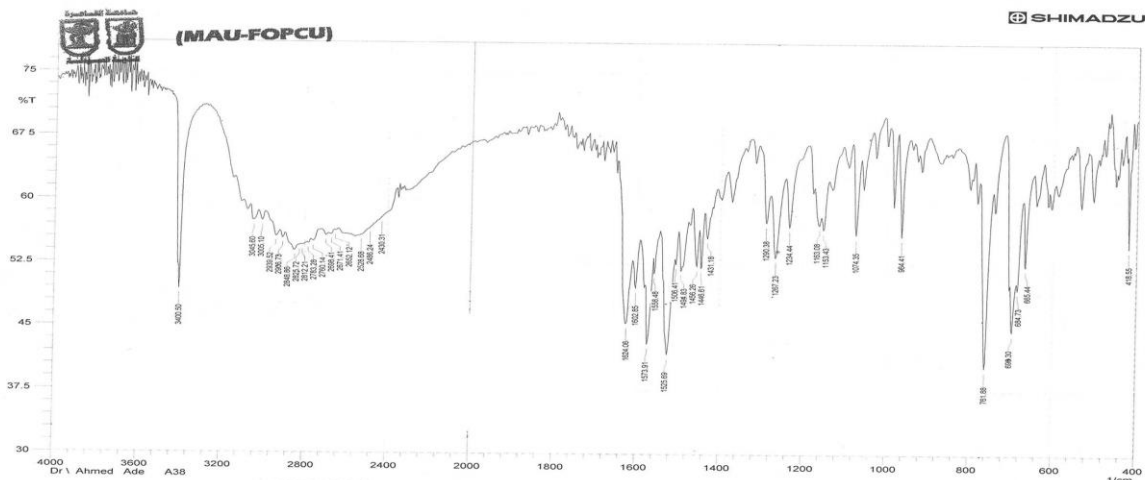


Fig. (30): Mass Spectrum of Compound (20)



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Fig. (31): IR Spectrum of Compound (21a)

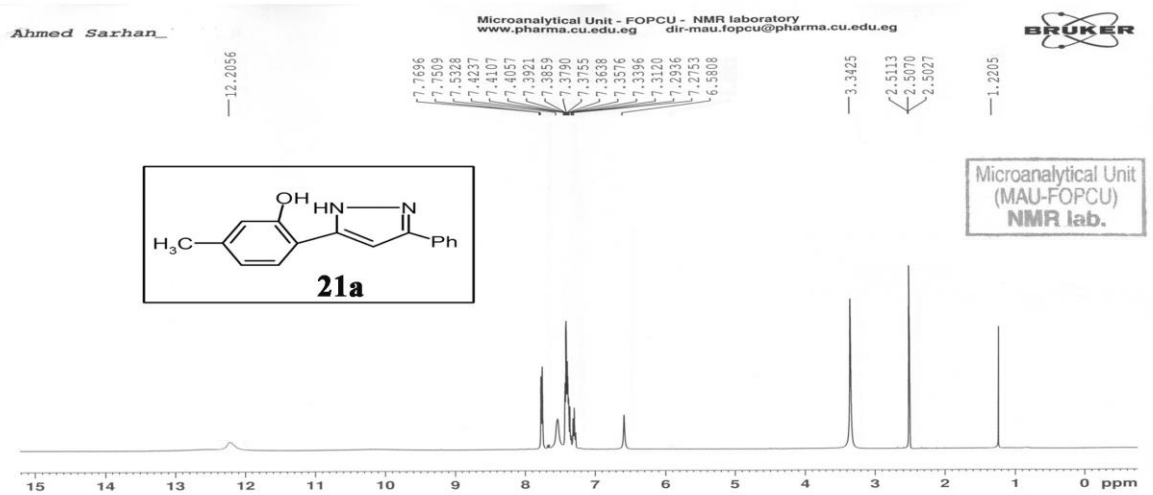


Fig. (32): ¹H-NMR Spectrum of Compound (21a)(DMSO)

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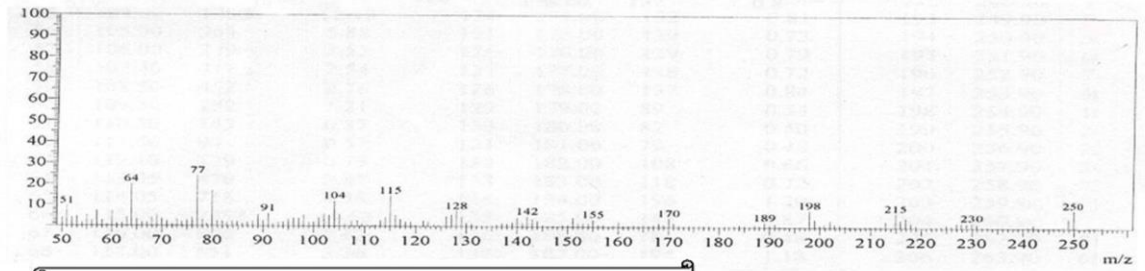


Fig. (33): Mass Spectrum of Compound (21a)

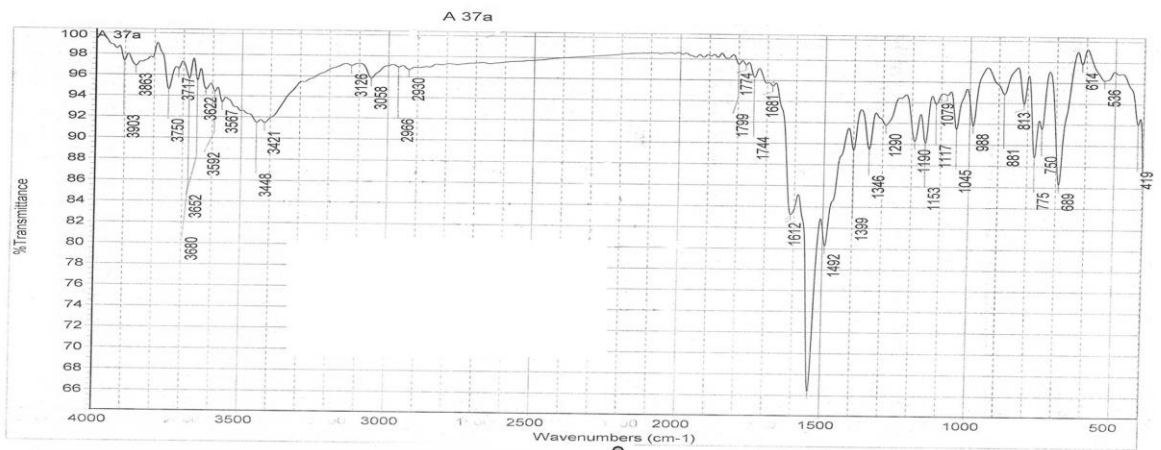


Fig. (34): IR Spectrum of Compound (21b)

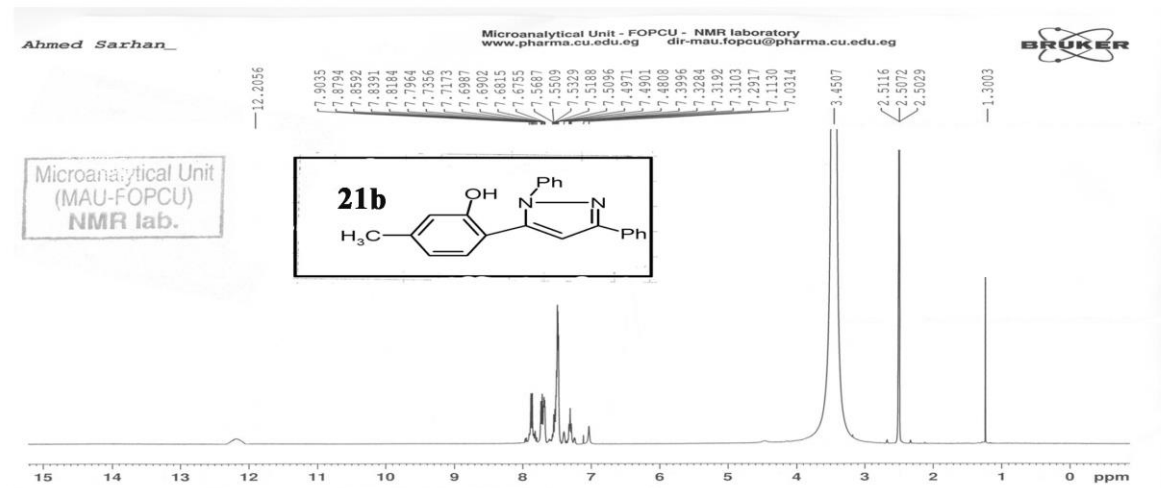


Fig. (35): ¹H-NMR Spectrum of Compound (21b).....(DMSO)

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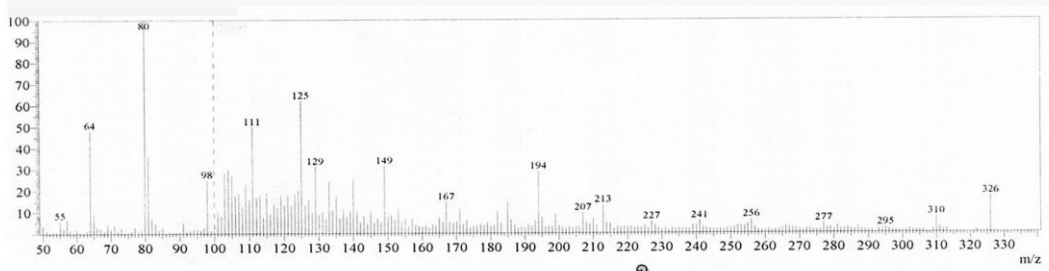


Fig. (36): Mass Spectrum of Compound (21b)

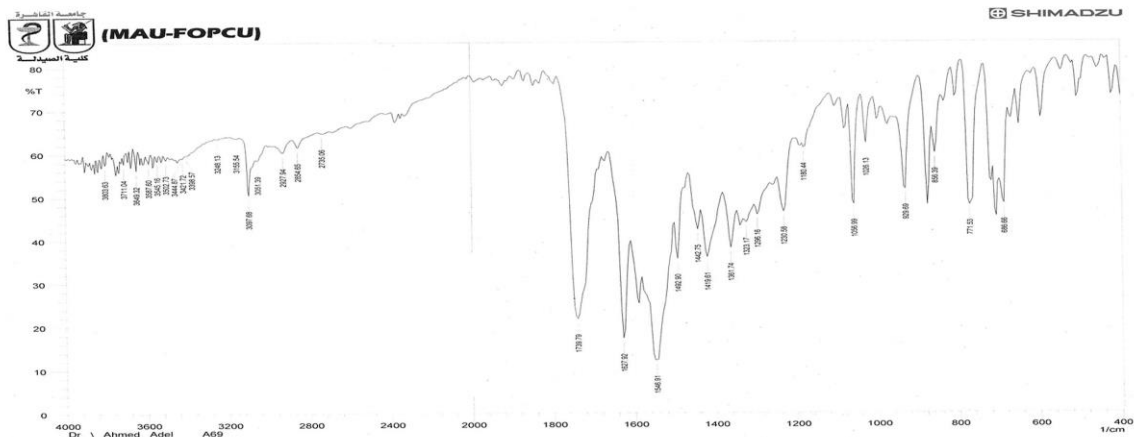


Fig. (37): IR Spectrum of Compound (23a)

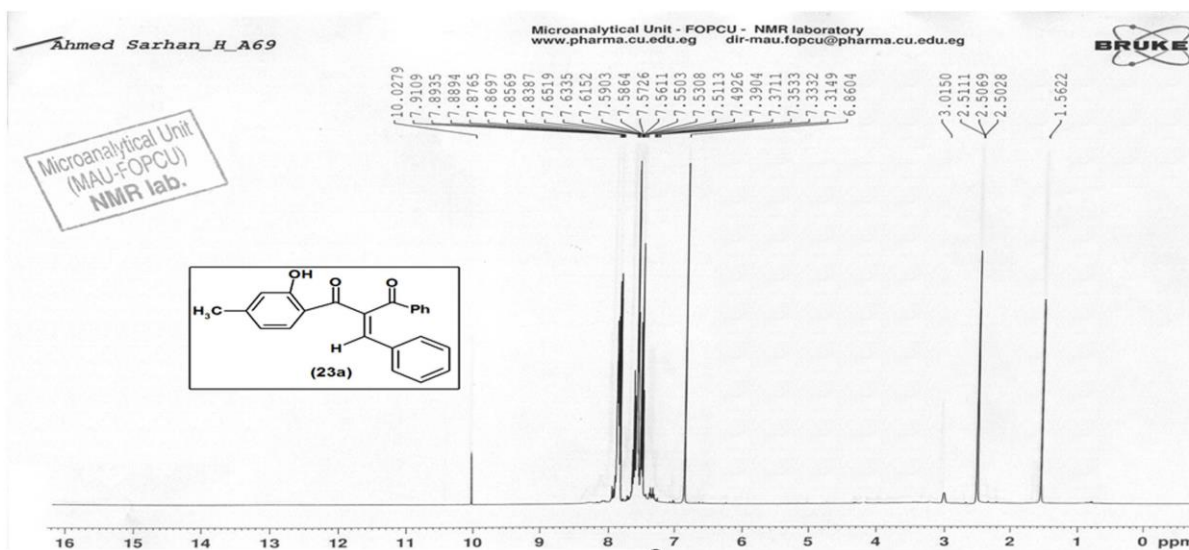


Fig. (38): ¹H-NMR Spectrum of Compound (23a).....(DMSO)

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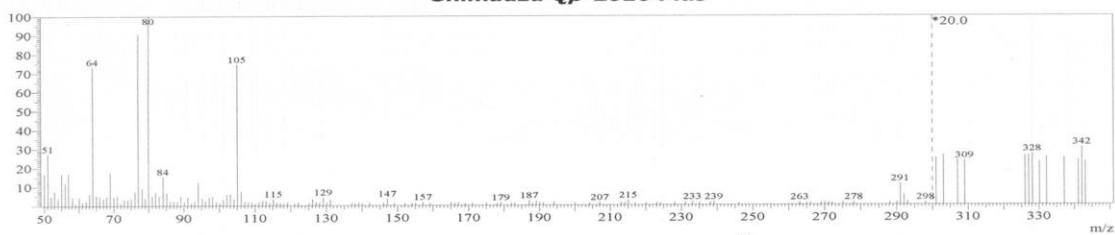


Fig. (39): Mass Spectrum of Compound (23a)

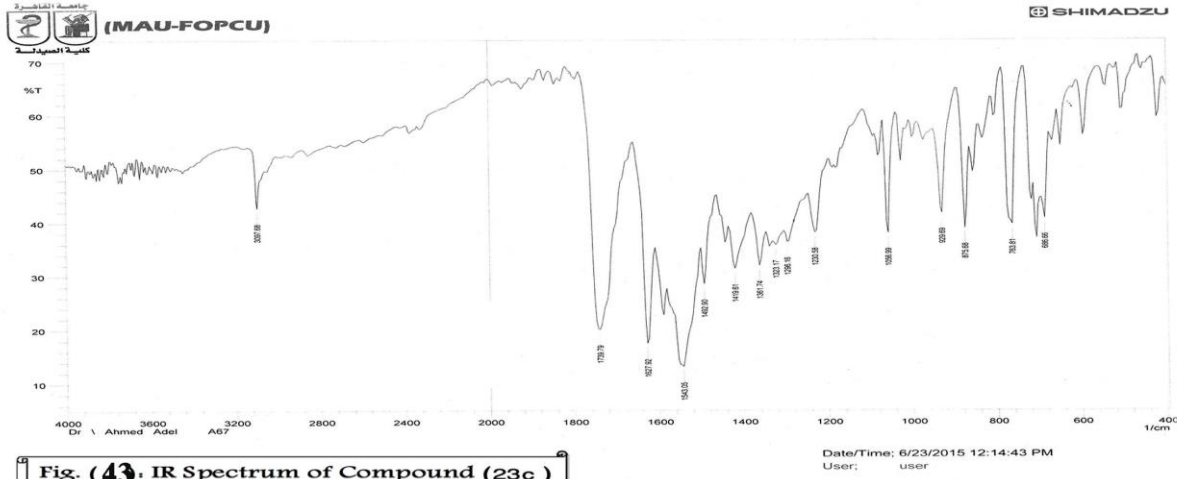


Fig. (43). IR Spectrum of Compound (23c)

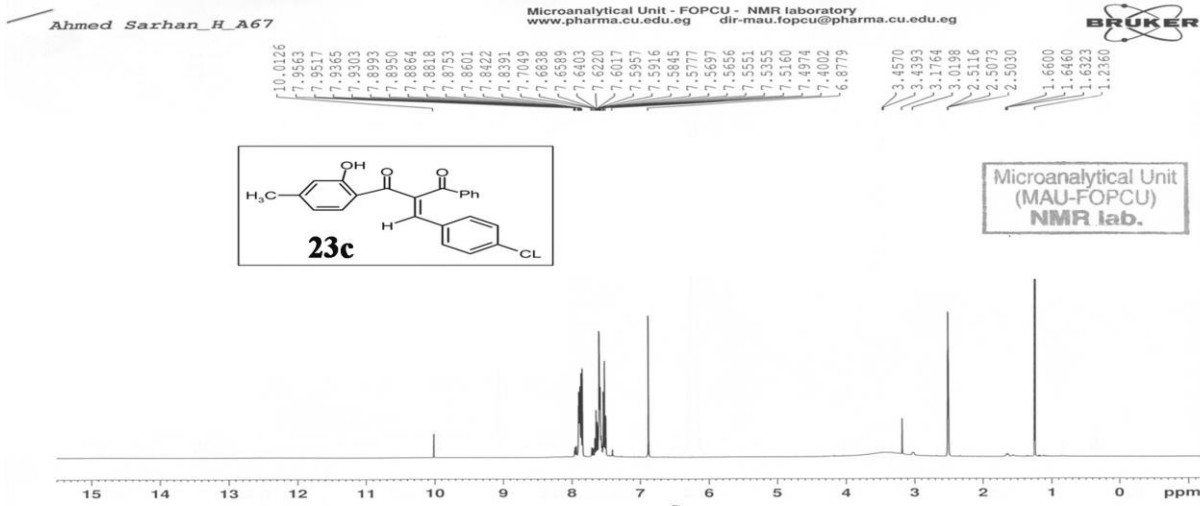


Fig. (44). ¹H-NMR Spectrum of Compound (23c)..... (DMSO)

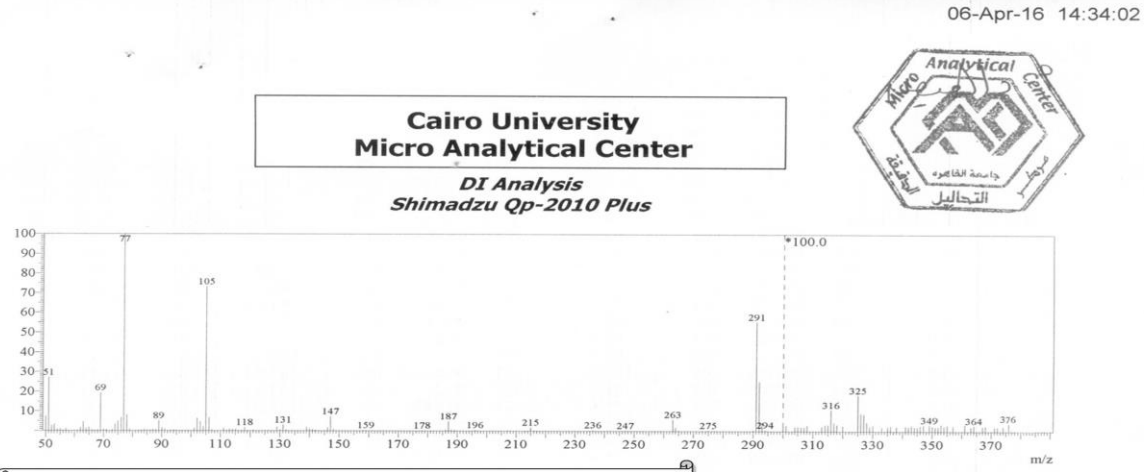


Fig. (45). Mass Spectrum of Compound (23c)

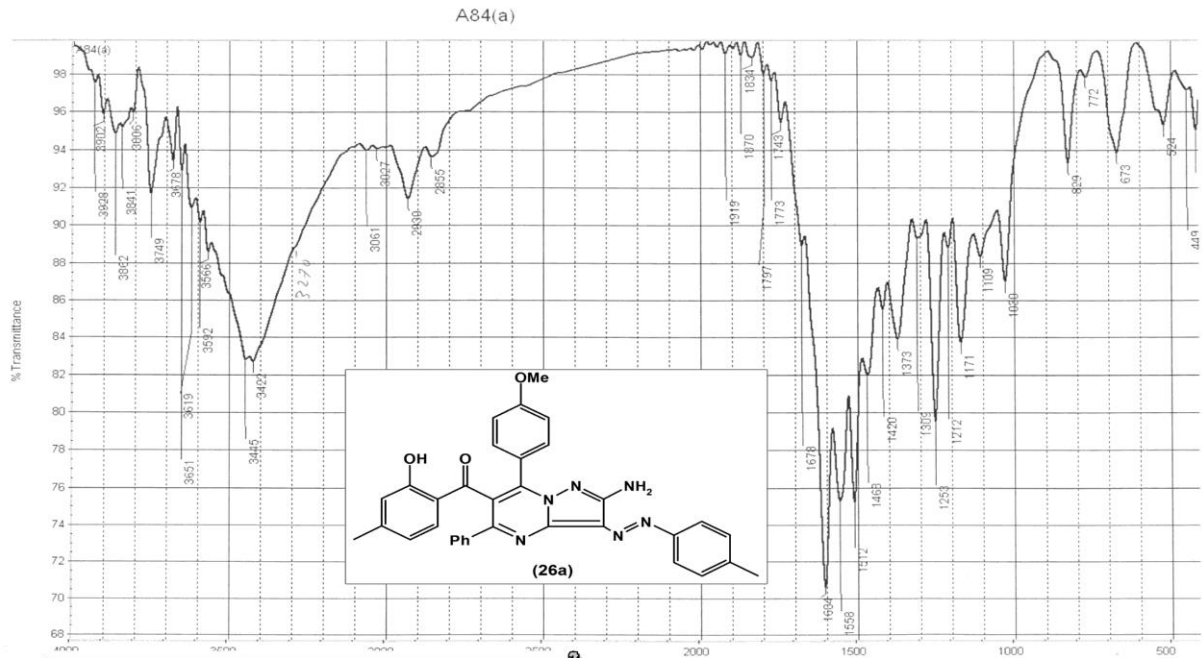


Fig. (46). IR Spectrum of Compound (26a)

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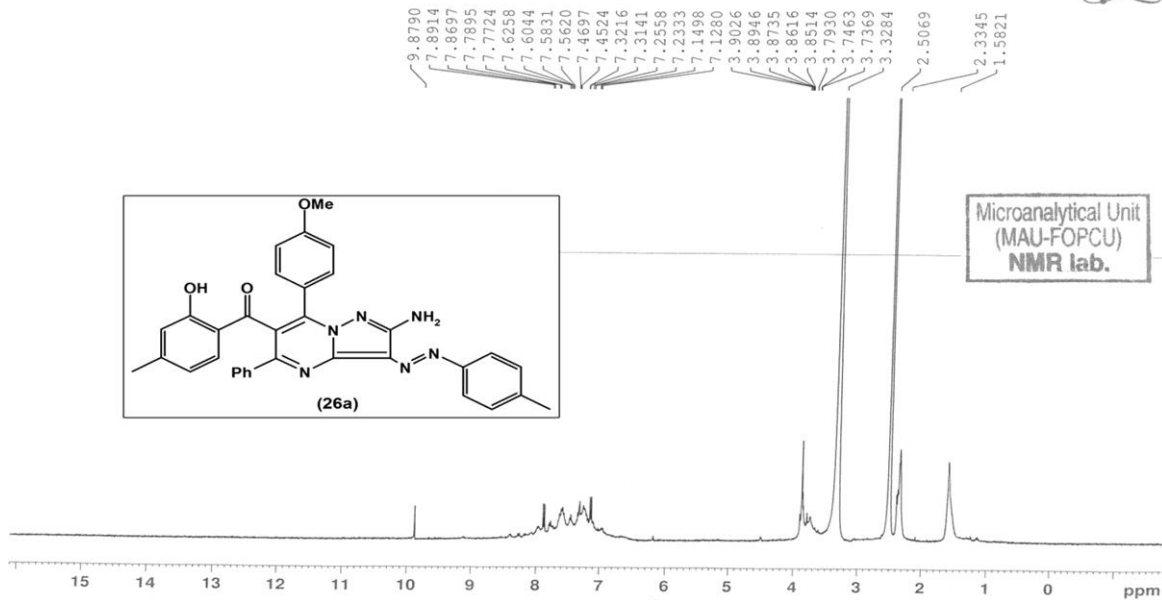
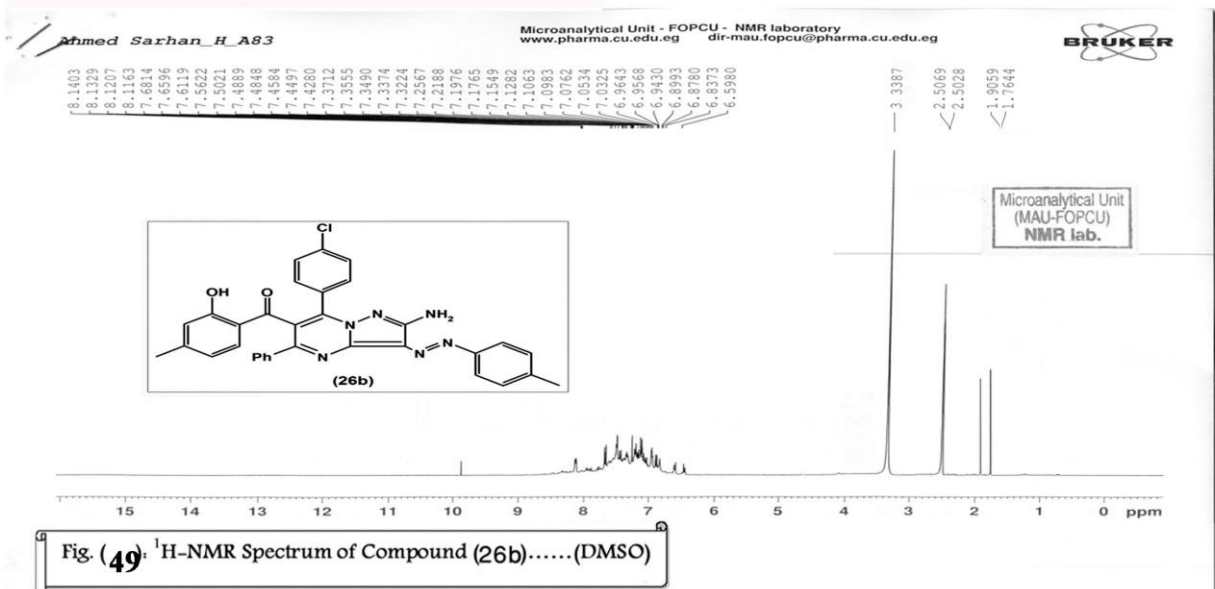
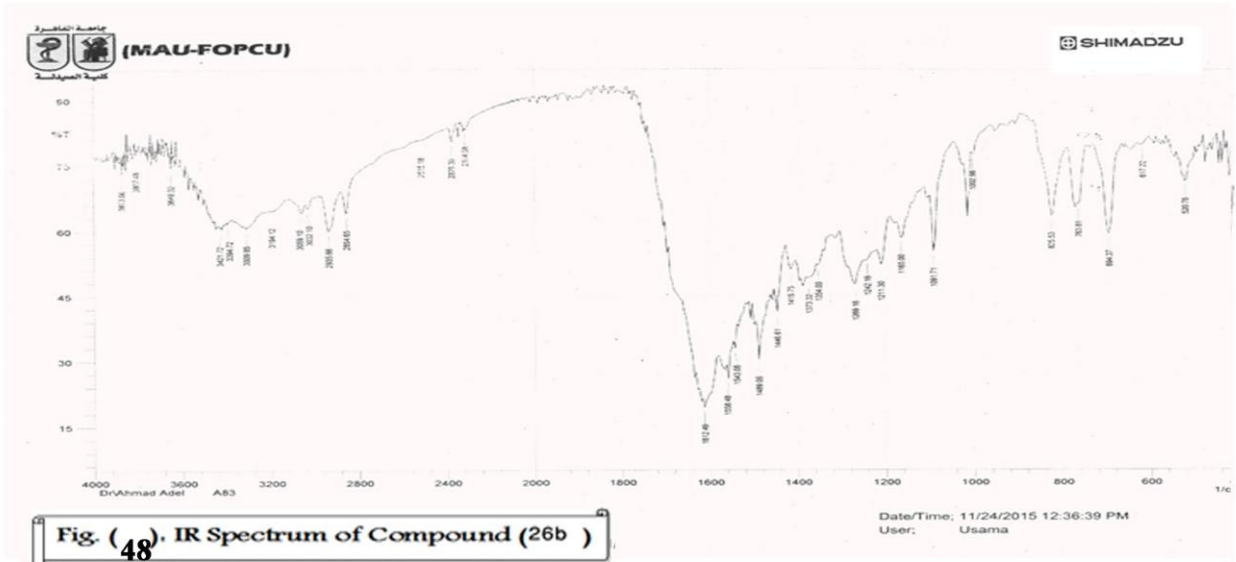
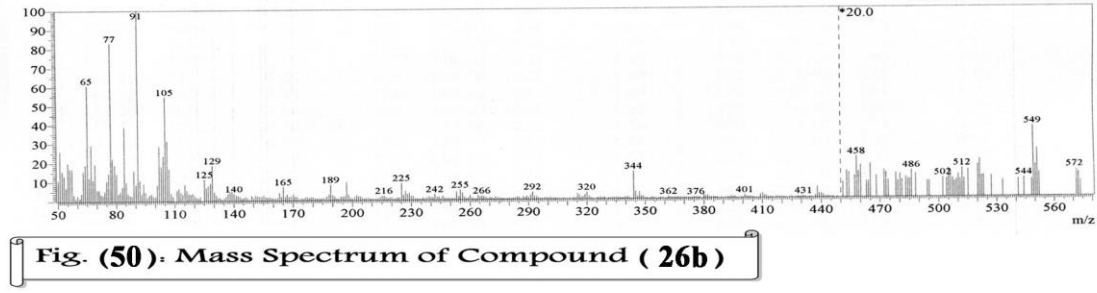


Fig. (47). ¹H-NMR Spectrum of Compound (26a).....(DMSO)



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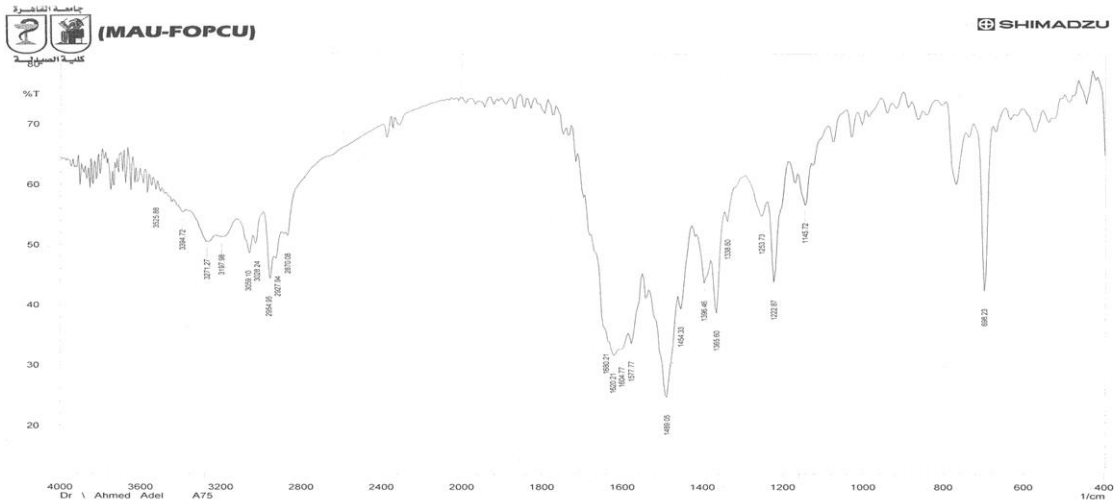


Fig. (51): IR Spectrum of Compound (28a)

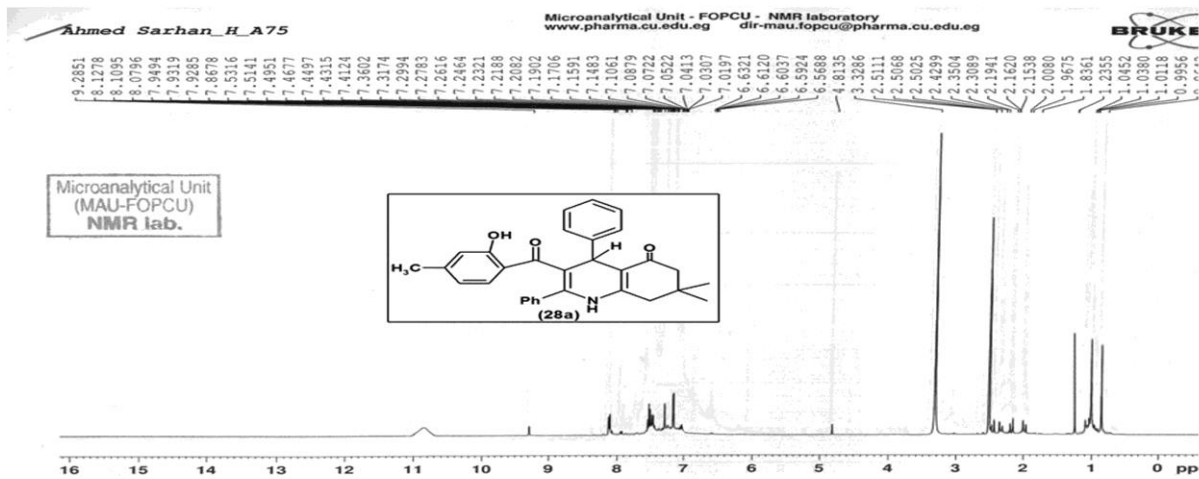


Fig. (52): ¹H-NMR Spectrum of Compound (28a).....(DMSO)

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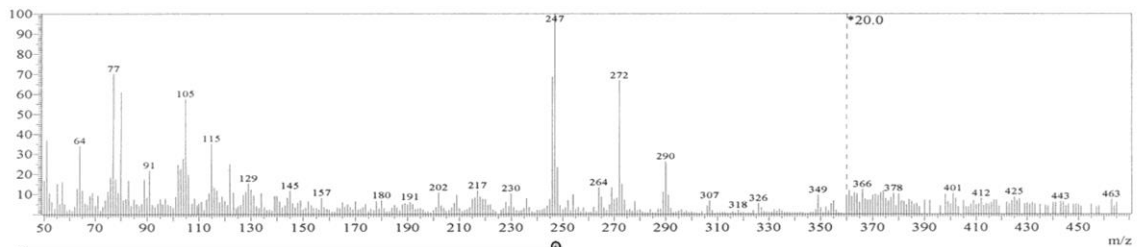


Fig. (53): Mass Spectrum of Compound (28a)

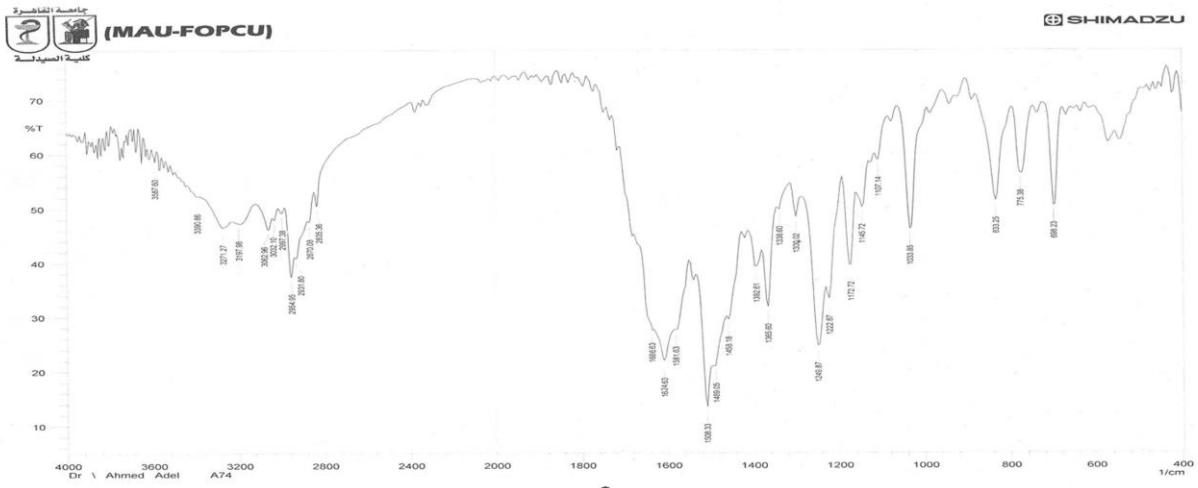


Fig. (54): IR Spectrum of Compound (28b)

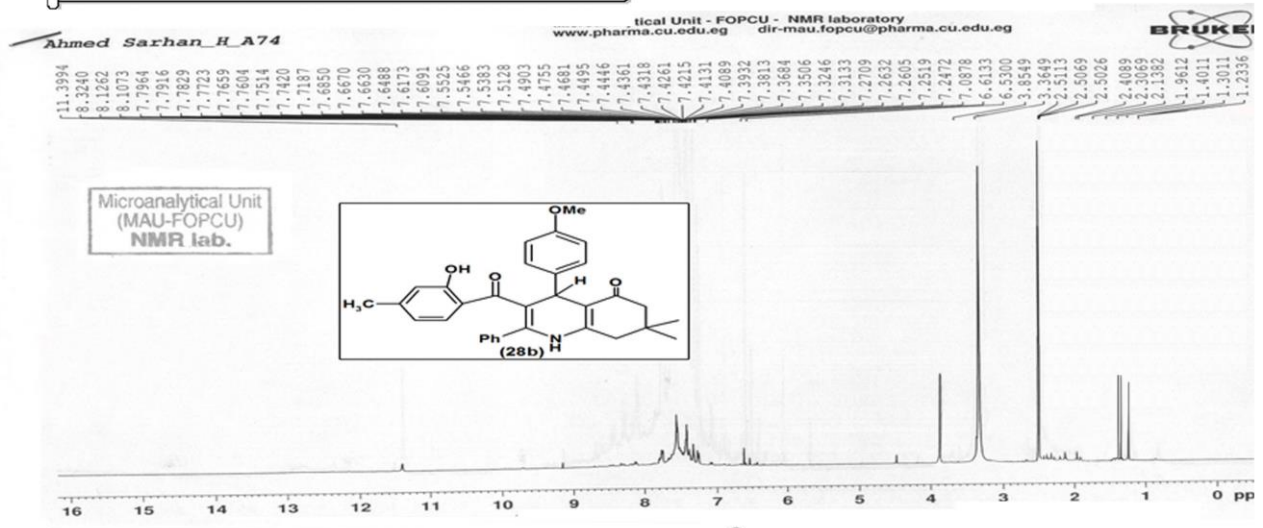


Fig. (55): ¹H-NMR Spectrum of Compound (28b).....(DMSO)

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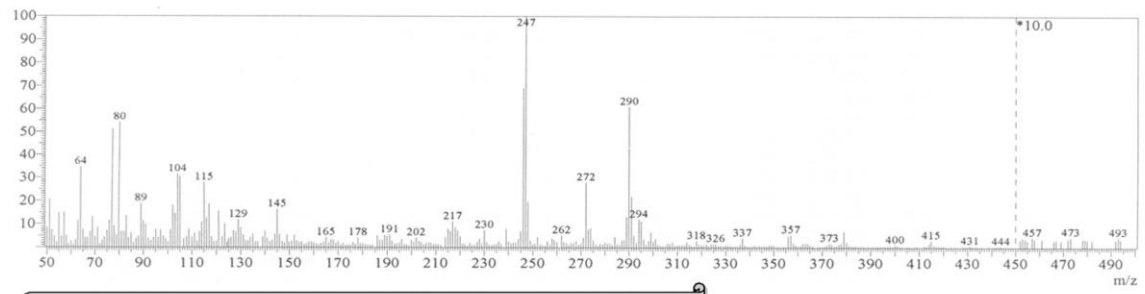


Fig. (56): Mass Spectrum of Compound (28b)

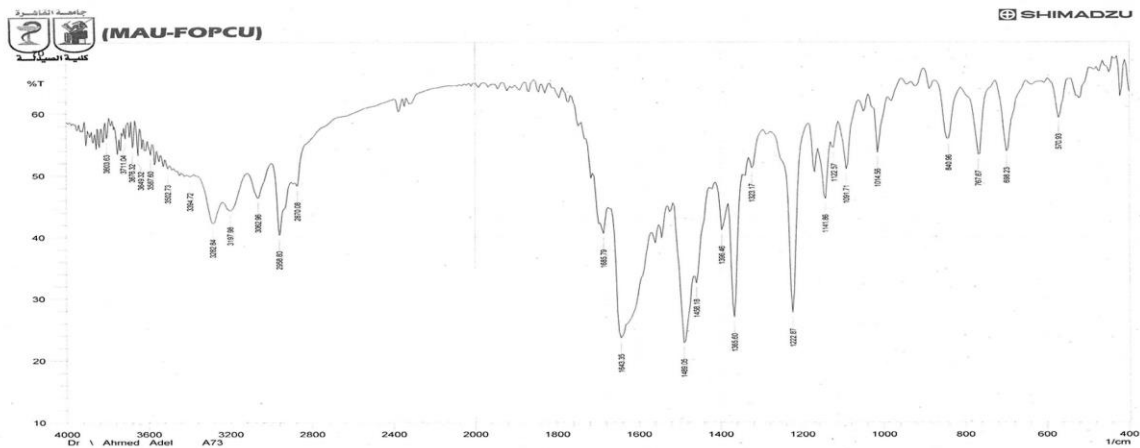


Fig. (58): IR Spectrum of Compound (28c)

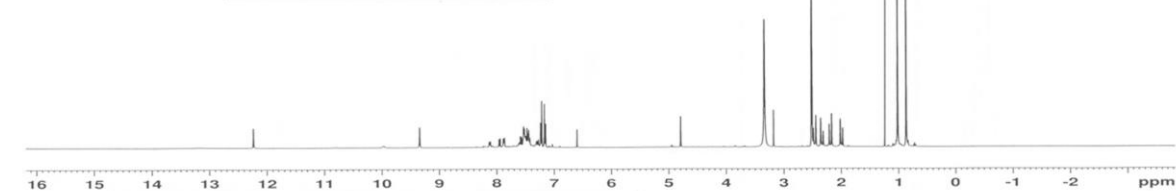
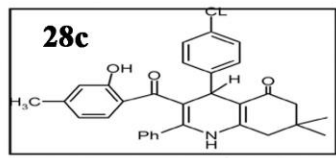
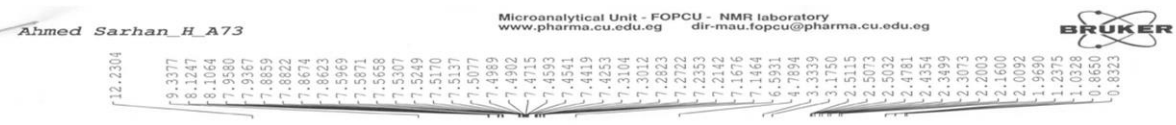


Fig. (59): 1H-NMR Spectrum of Compound (28c).....(DMSO)

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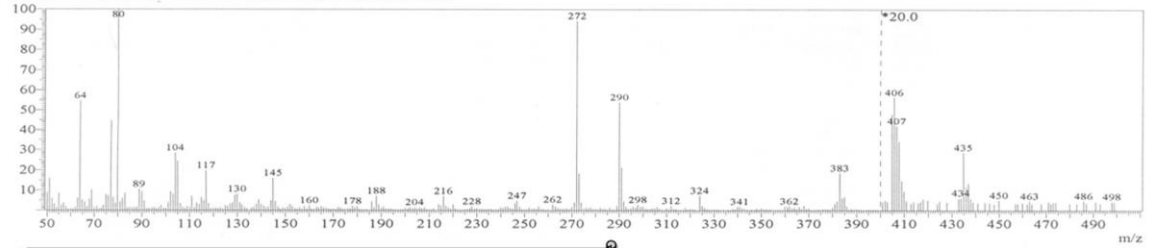
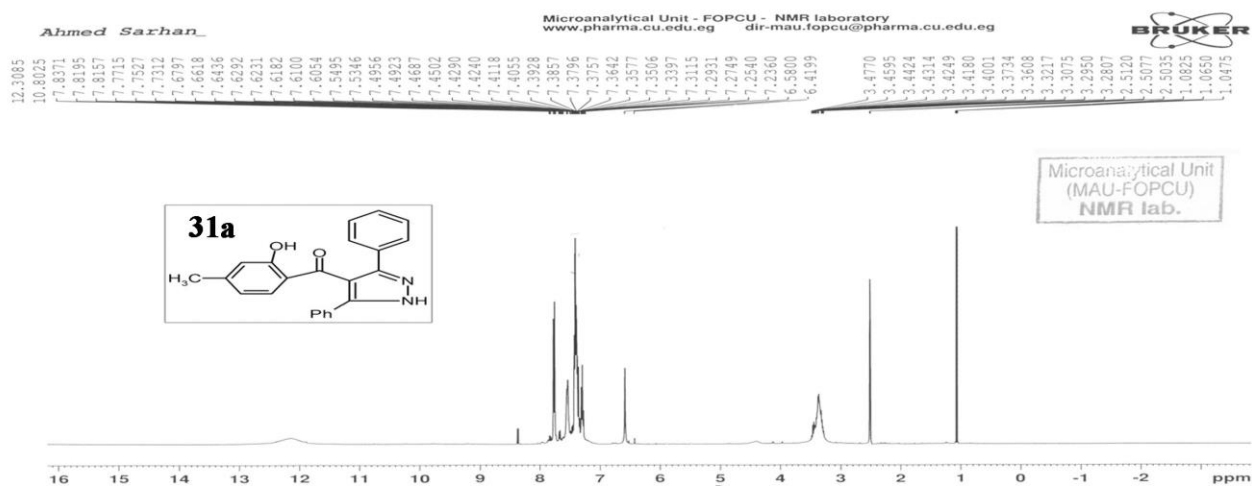
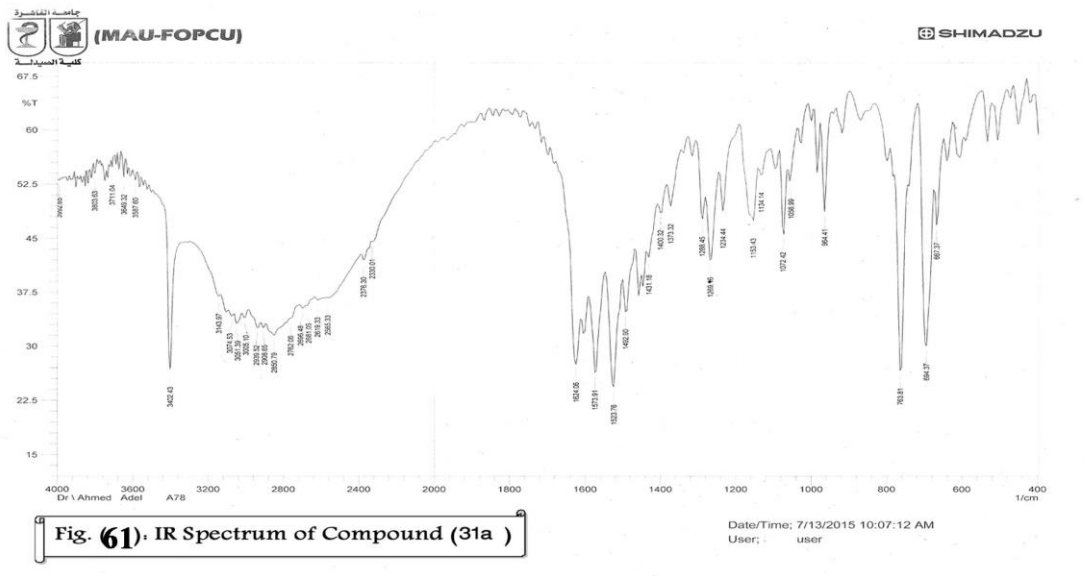
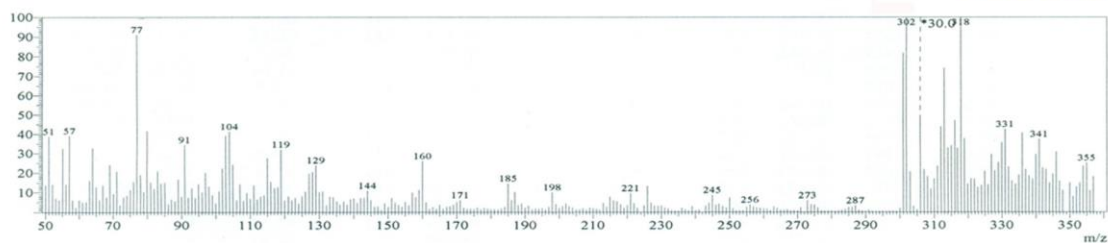


Fig. (60): Mass Spectrum of Compound (28c)



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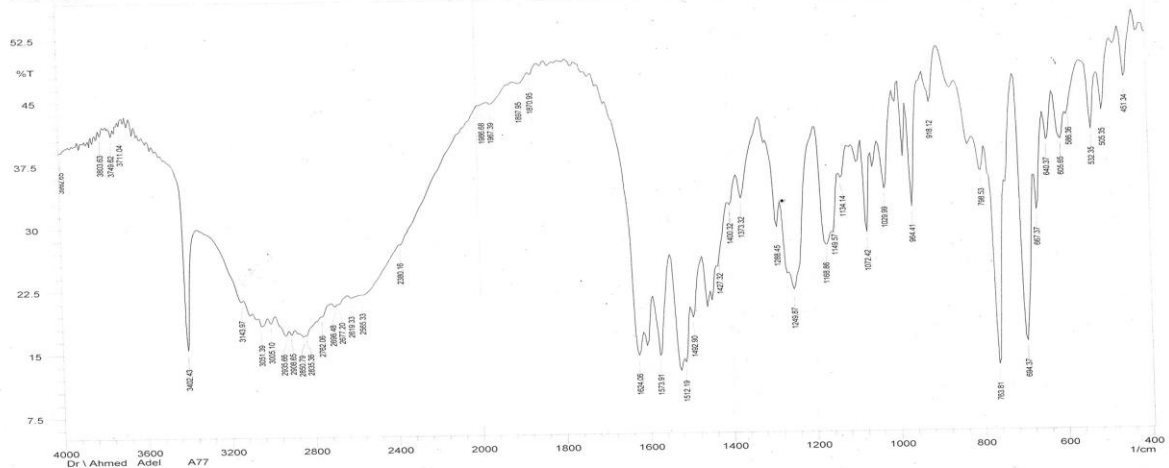
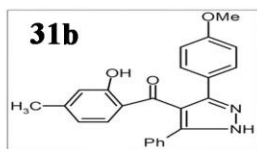
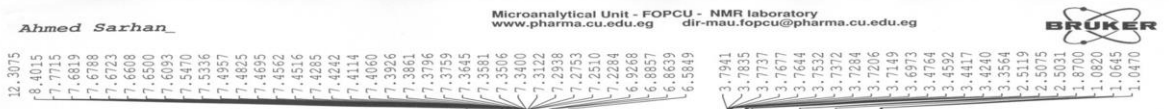


Fig. (64): IR Spectrum of Compound (31b)



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Fig. (65): ¹H-NMR Spectrum of Compound (31b).....(DMSO)

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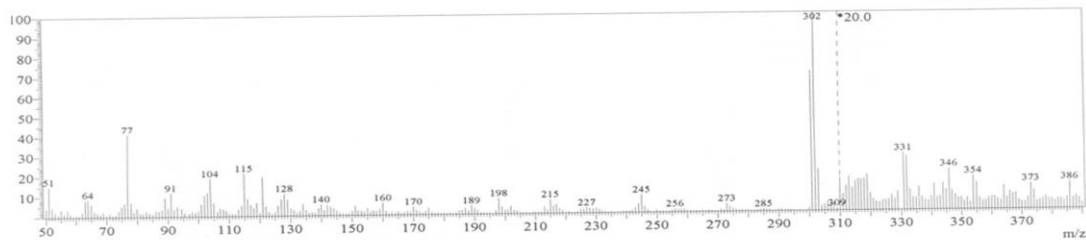


Fig. (66): Mass Spectrum of Compound (31b)

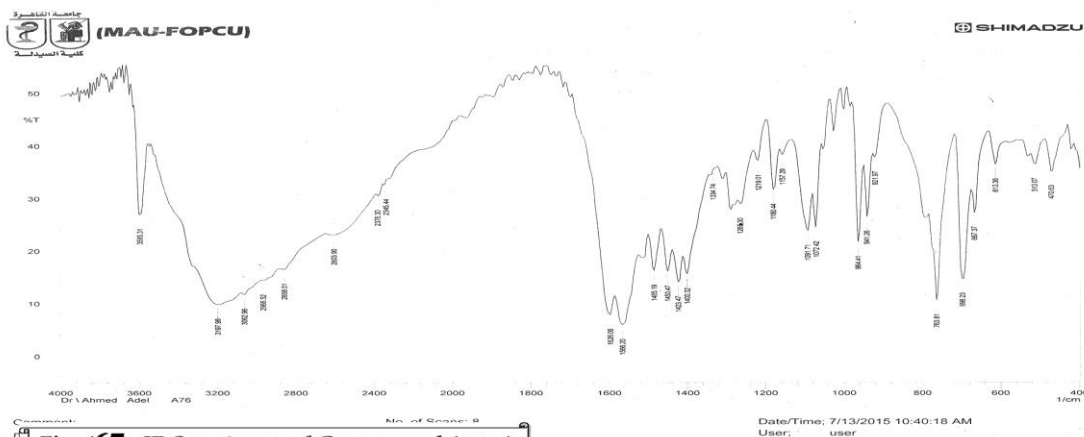


Fig. (67). IR Spectrum of Compound (31c)

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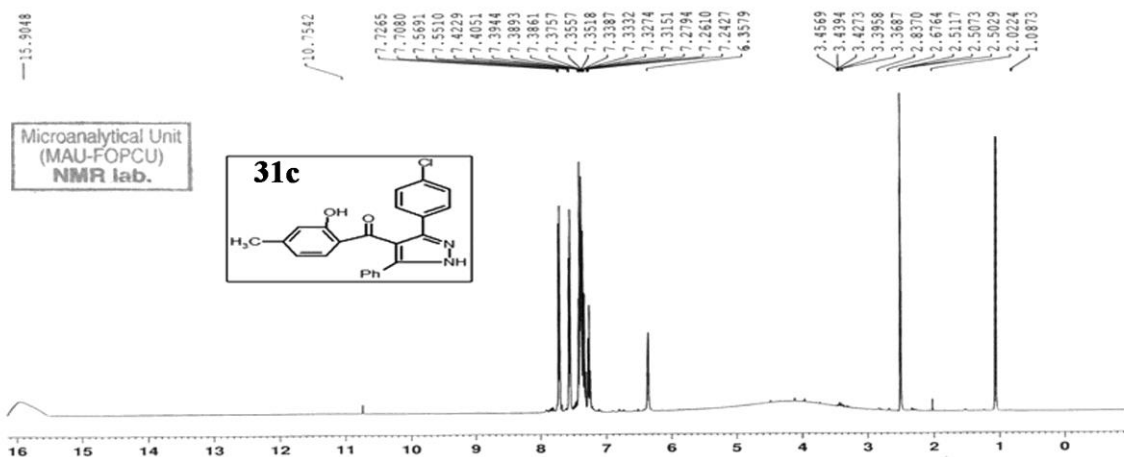


Fig (68) ¹H-NMR Spectrum of Compound (31c) (DMSO)

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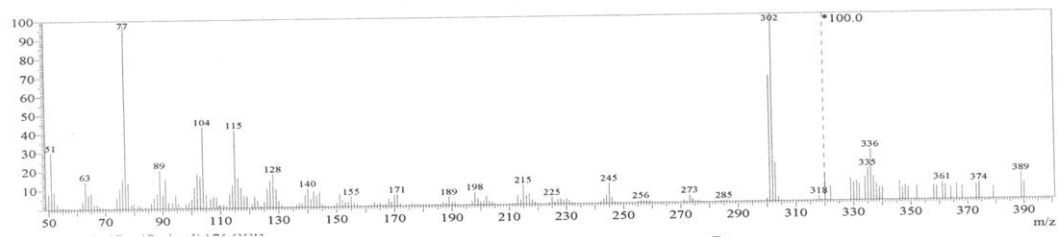
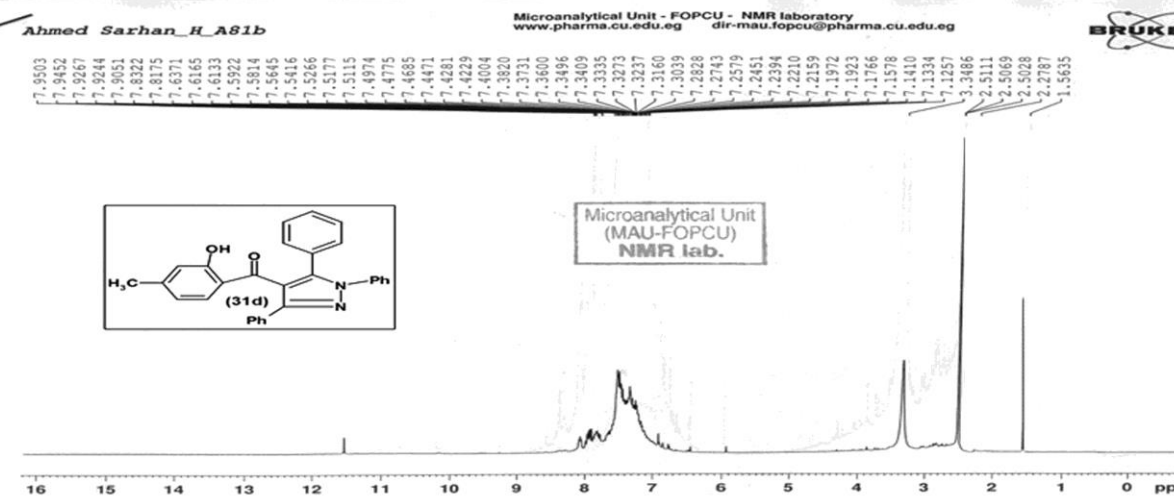
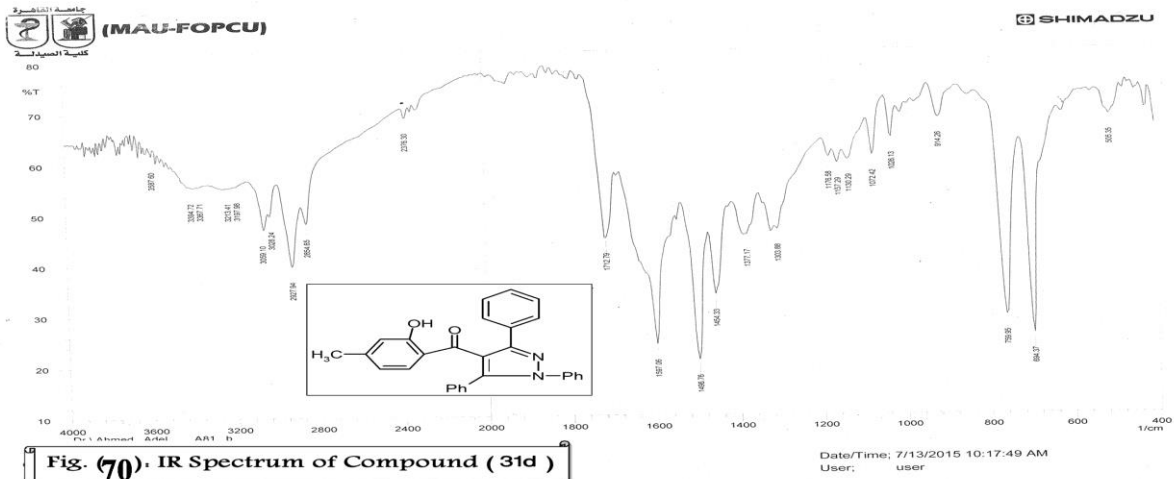


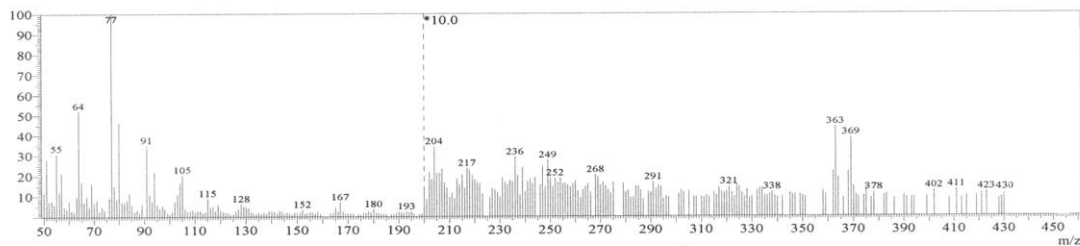
Fig. (69): Mass Spectrum of Compound (31c)



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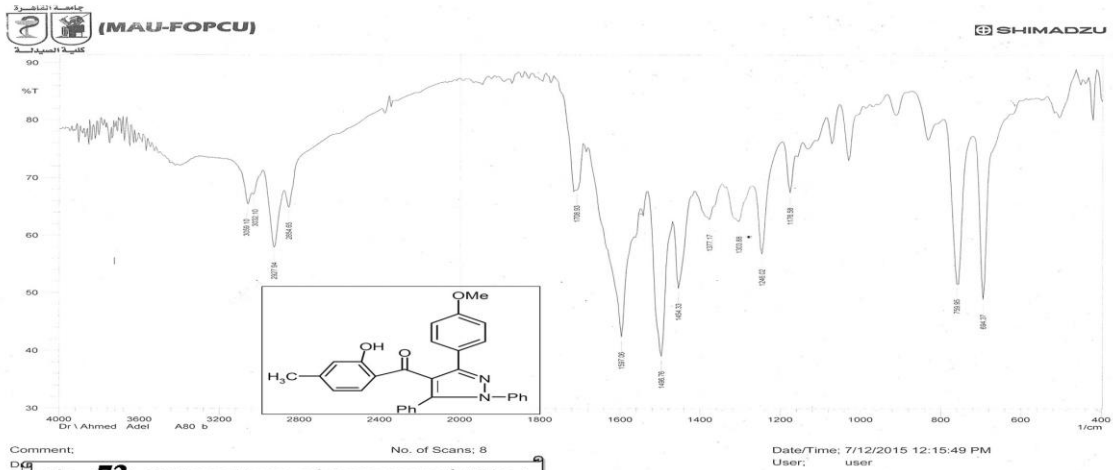


Fig. (73). IR Spectrum of Compound (31e)

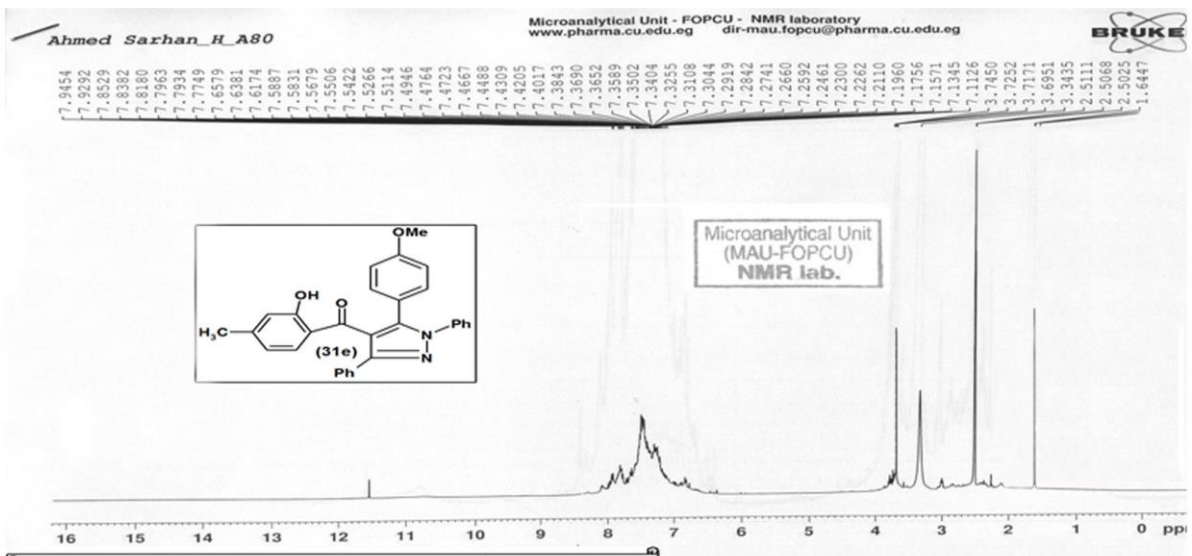


Fig. (74). ¹H-NMR Spectrum of Compound (31e).....(DMSO)

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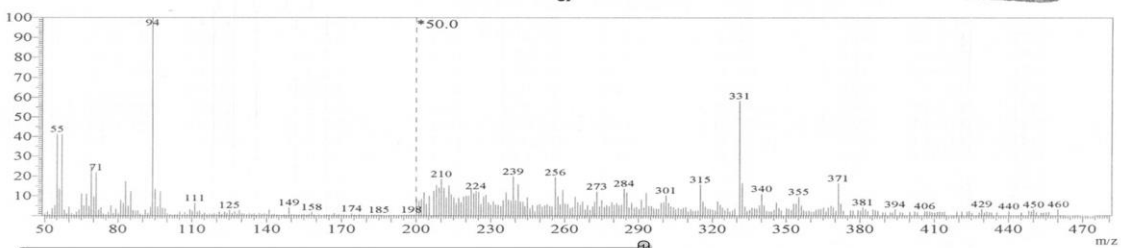


Fig. (75). Mass Spectrum of Compound (31e)

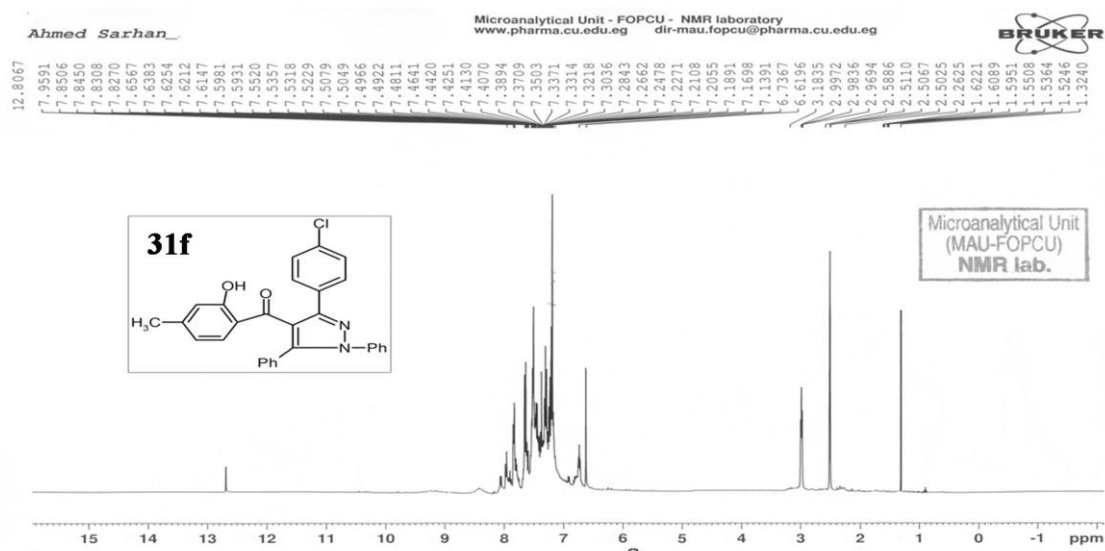
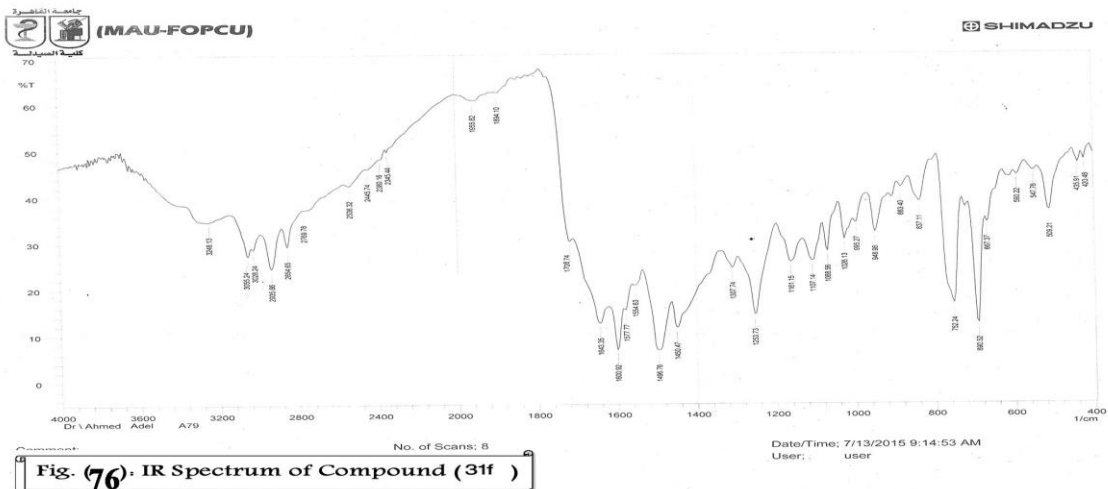


Fig. (77): ¹H-NMR Spectrum of Compound (31f)..... (DMSO)

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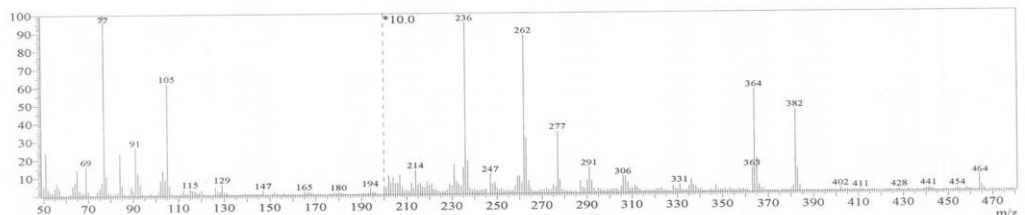
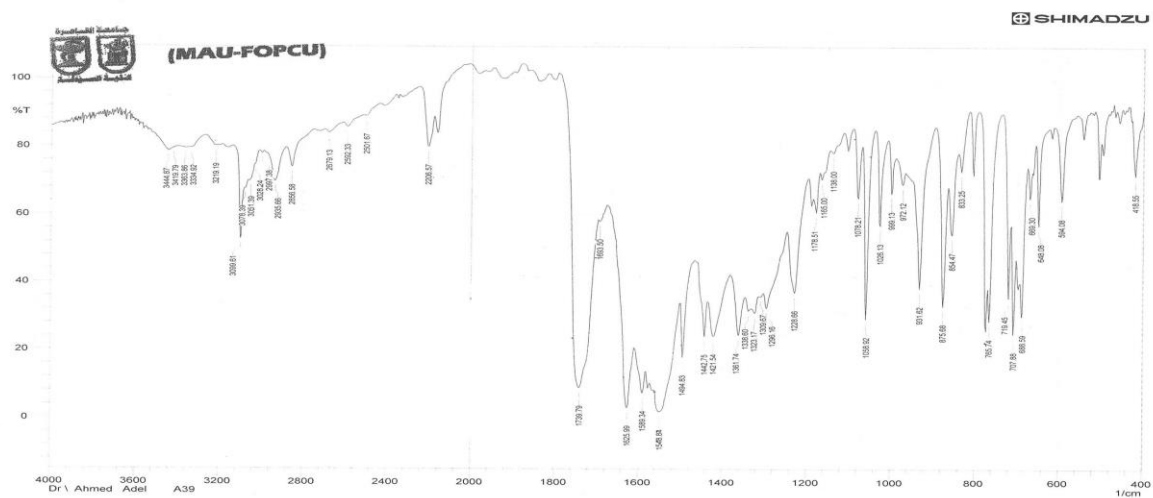


Fig. (78): Mass Spectrum of Compound (31f)



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Fig. (79). IR Spectrum of Compound (32)

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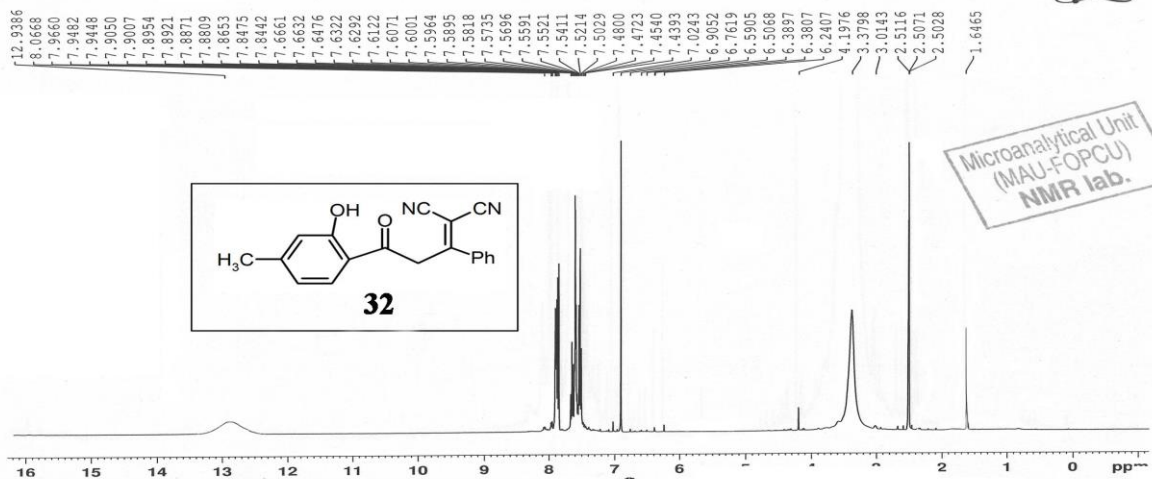


Fig. (80). ¹H-NMR Spectrum of Compound (32).....(DMSO)

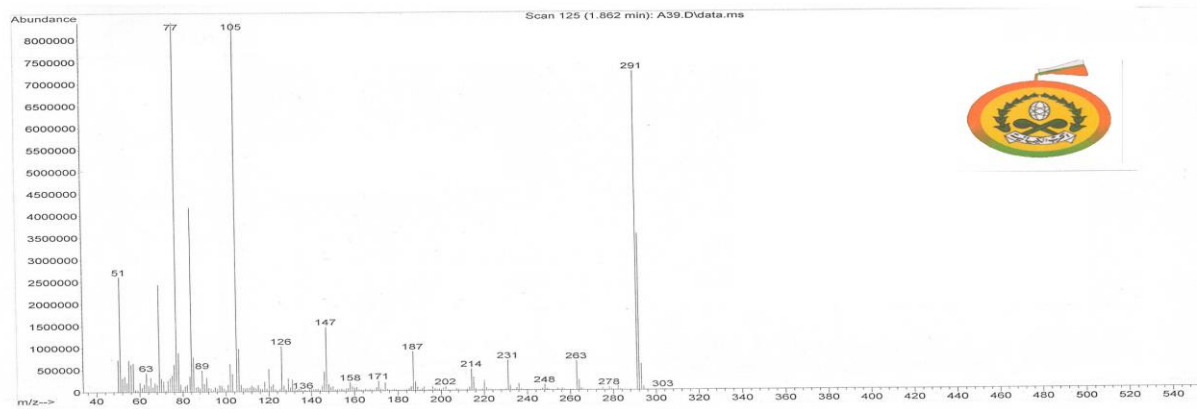


Fig. (81). Mass Spectrum of Compound (32)

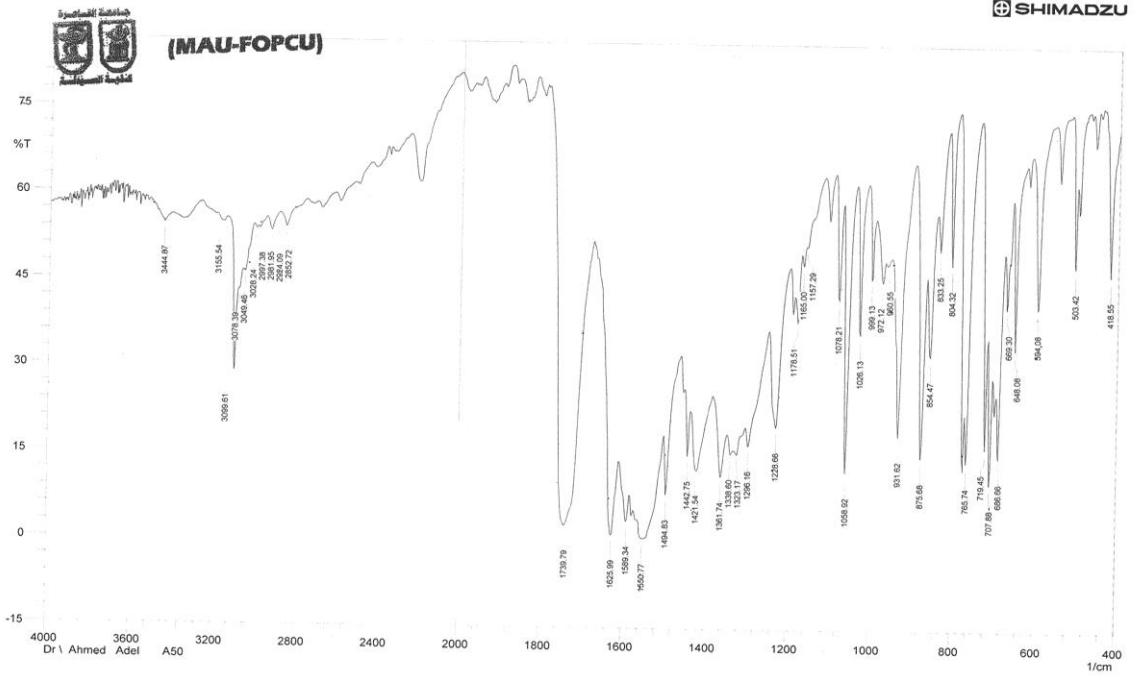


Fig. (83): IR Spectrum of Compound (34)

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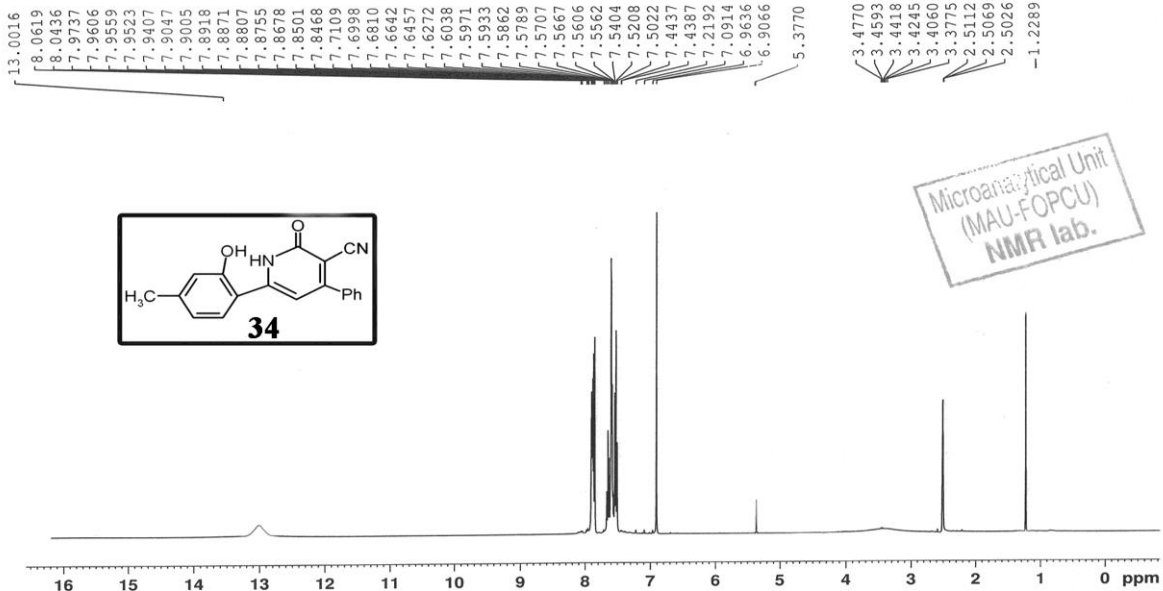


Fig. (84): ¹H-NMR Spectrum of Compound (34)..... (DMSO)

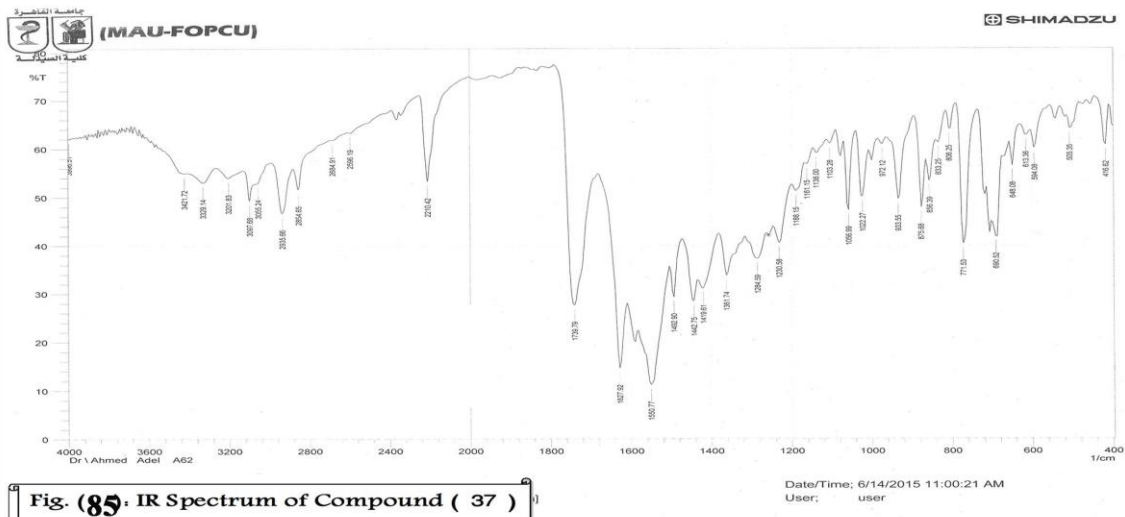


Fig. (85): IR Spectrum of Compound (37)

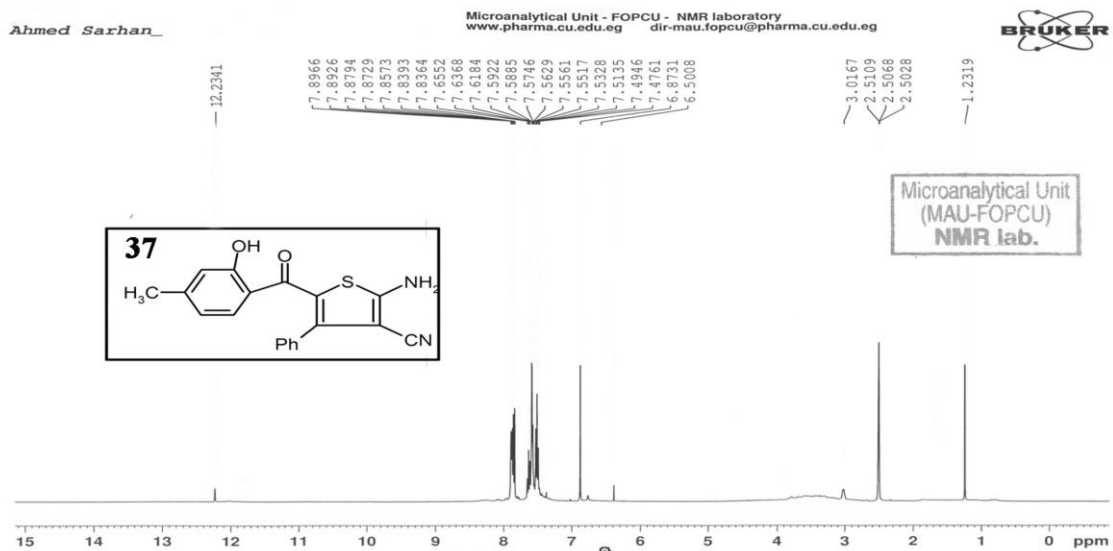


Fig. (86): ¹H-NMR Spectrum of Compound (37).....(DMSO)

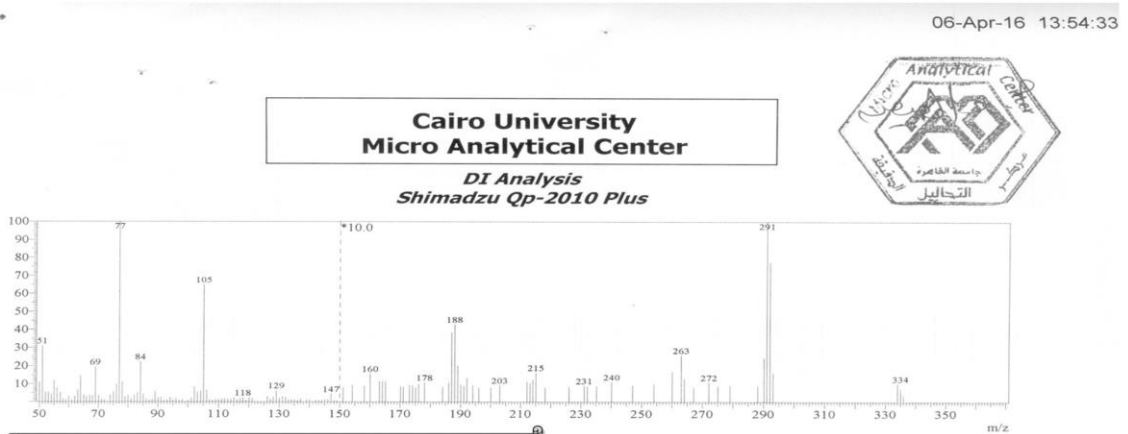


Fig. (87): Mass Spectrum of Compound (37)

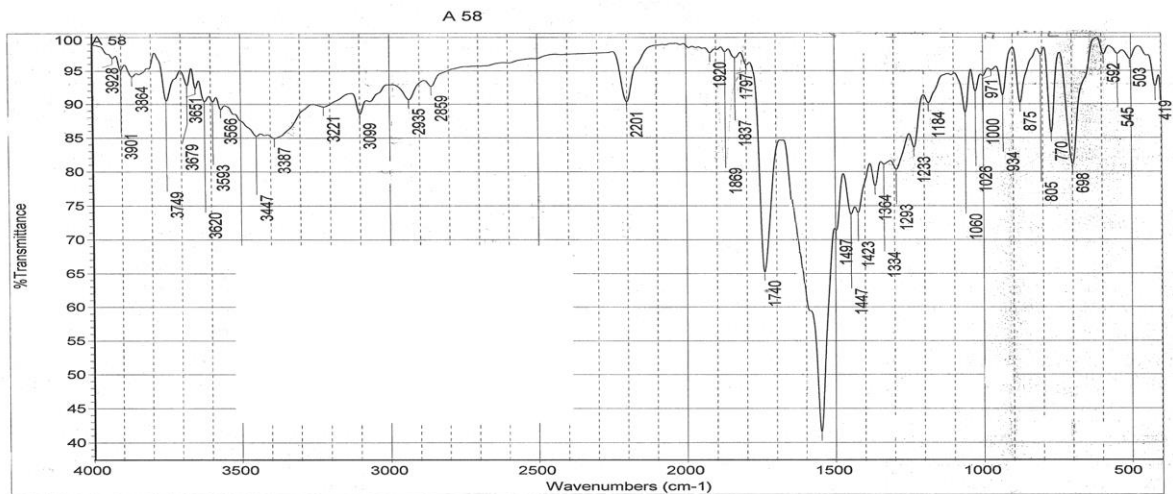


Fig. (94): IR Spectrum of Compound (46a)

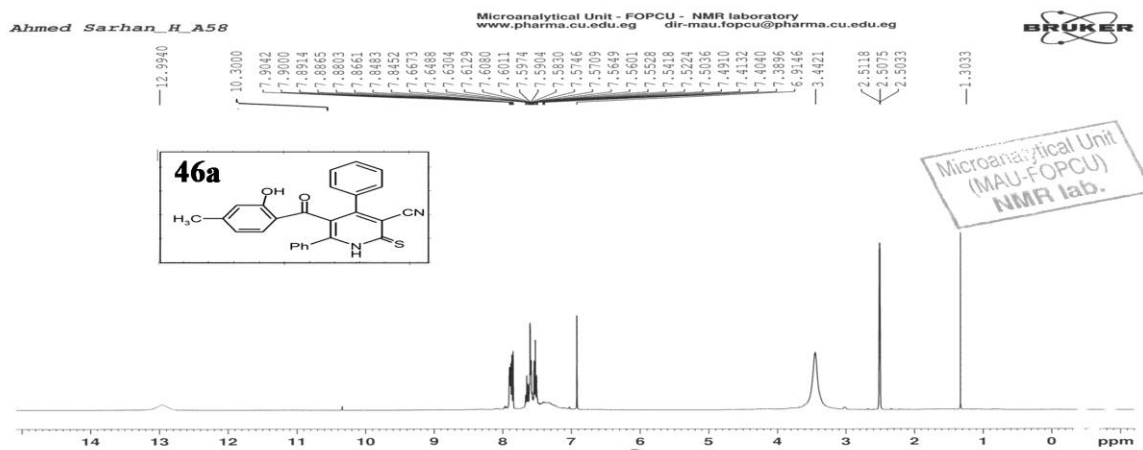


Fig. (95): ¹H-NMR Spectrum of Compound (46a)..... (DMSO)

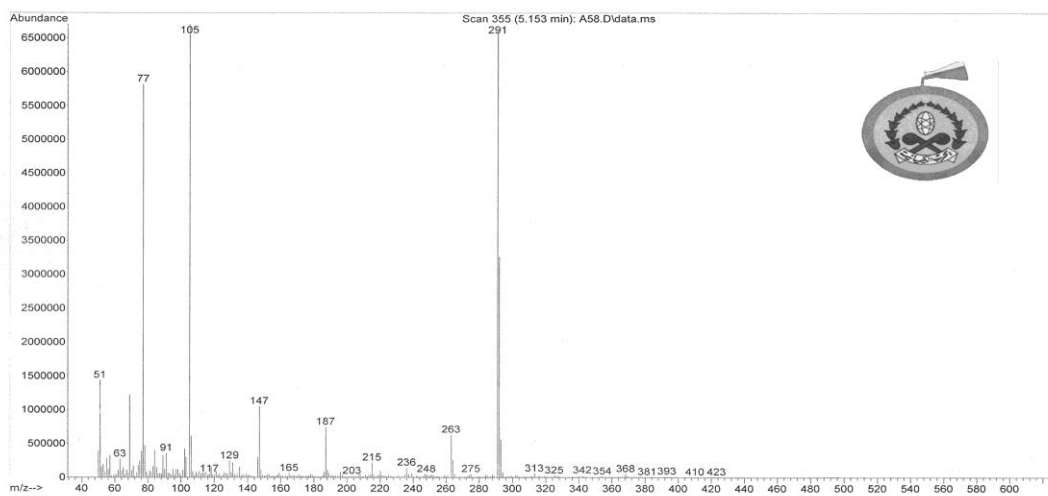
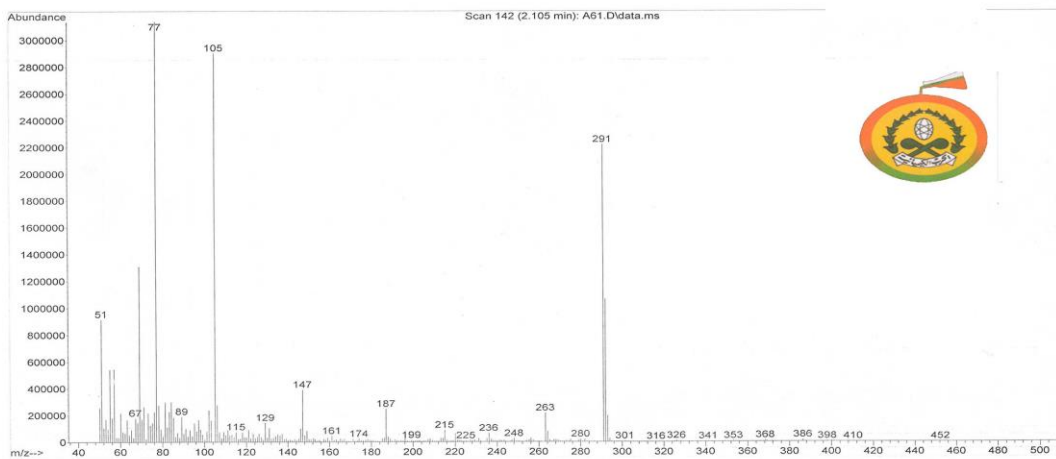
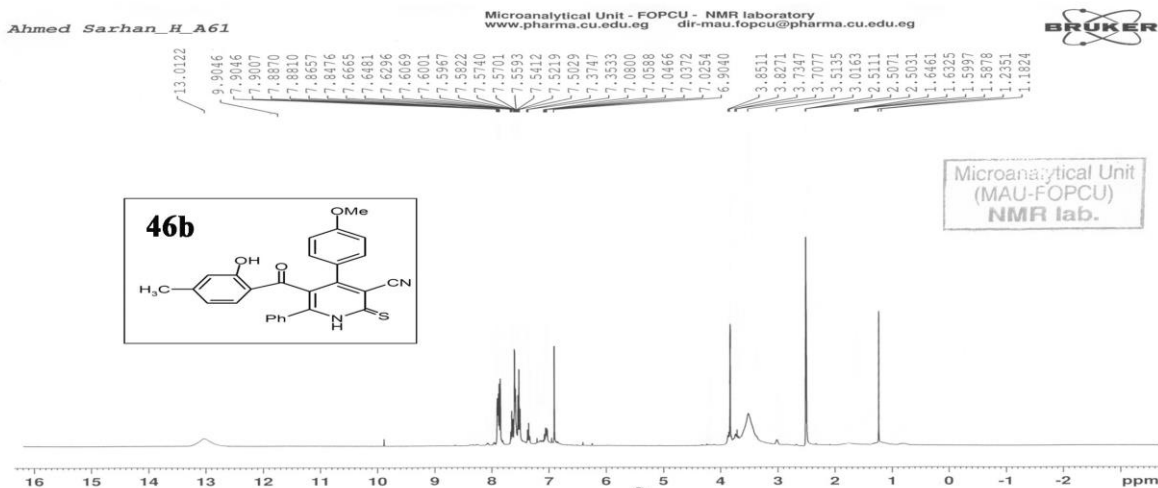
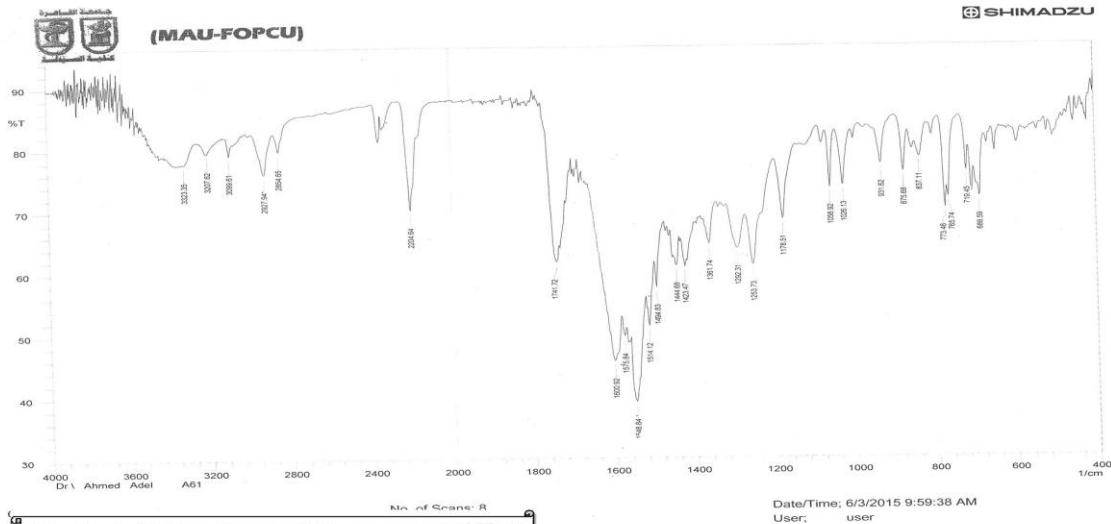


Fig. (96): Mass Spectrum of Compound (46a)



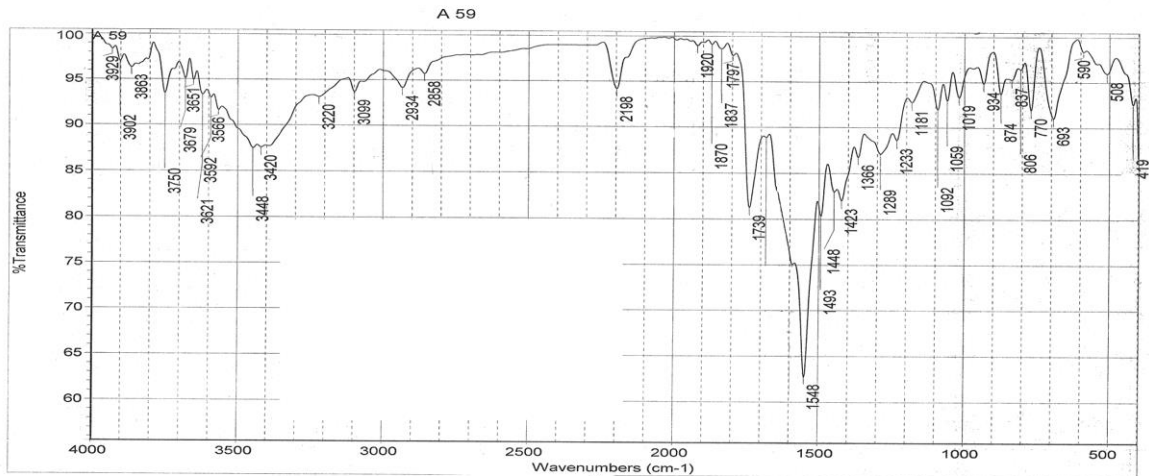


Fig. (101) IR Spectrum of Compound (46c)

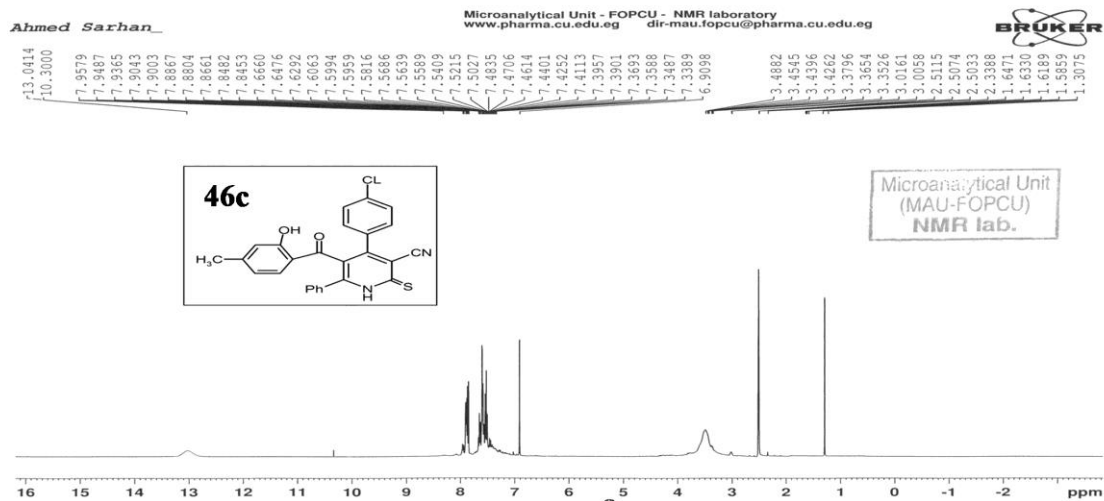


Fig. (102) ¹H-NMR Spectrum of Compound (46c).....(DMSO)

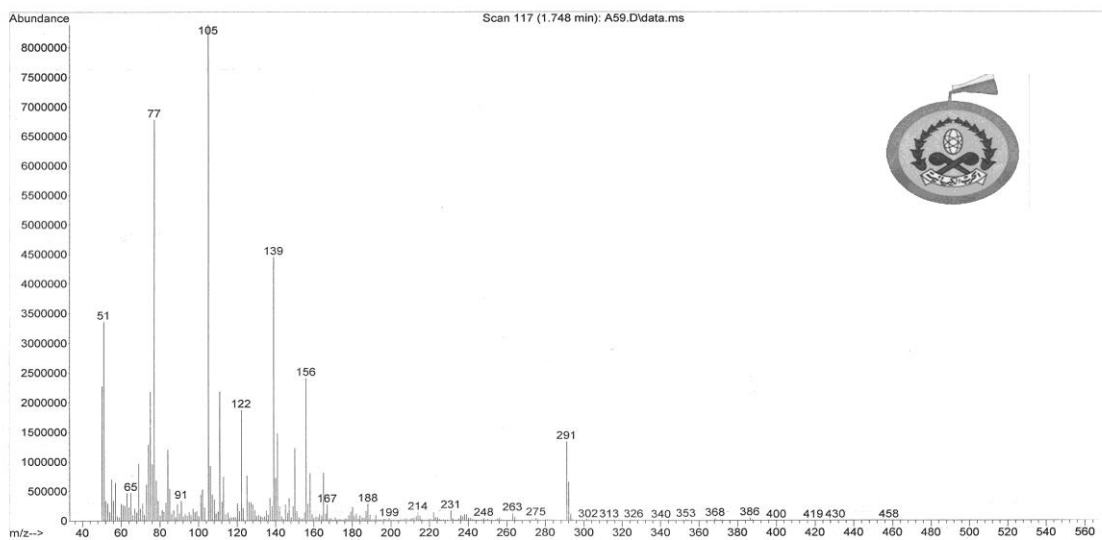
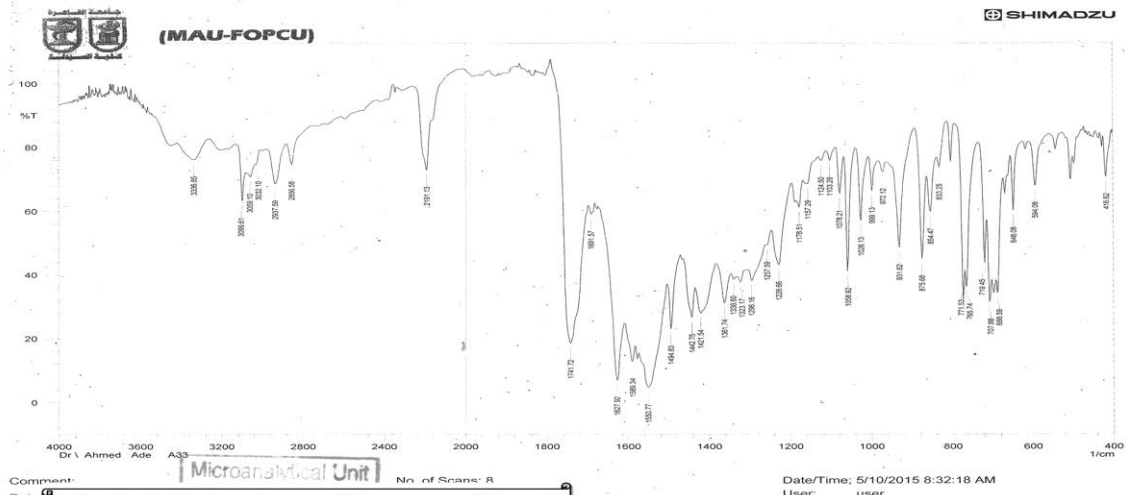


Fig. (103) Mass Spectrum of Compound (46c)



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 Dr. V. Ahmed Ade
Fig. 104 IR Spectrum of Compound (51a)

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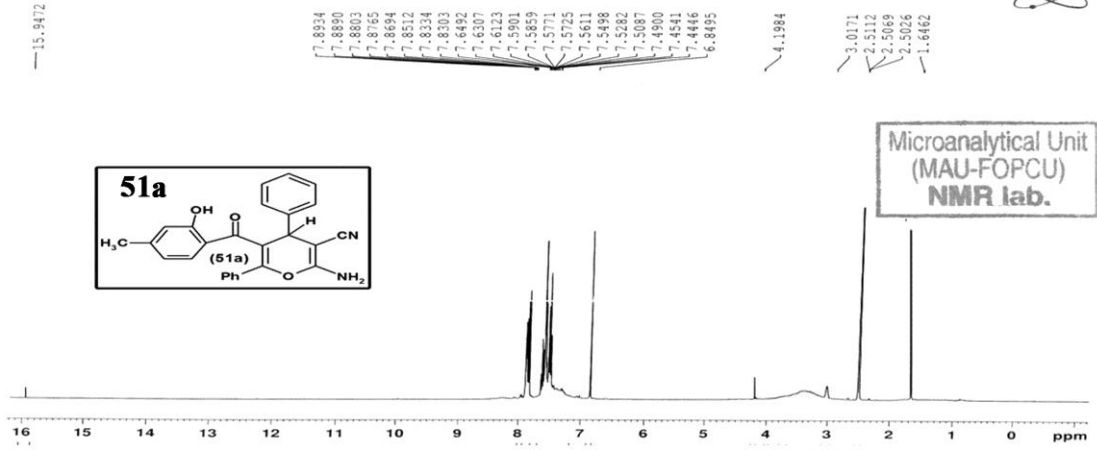


Fig. 105 ¹H-NMR Spectrum of Compound (51a).....(DMSO)

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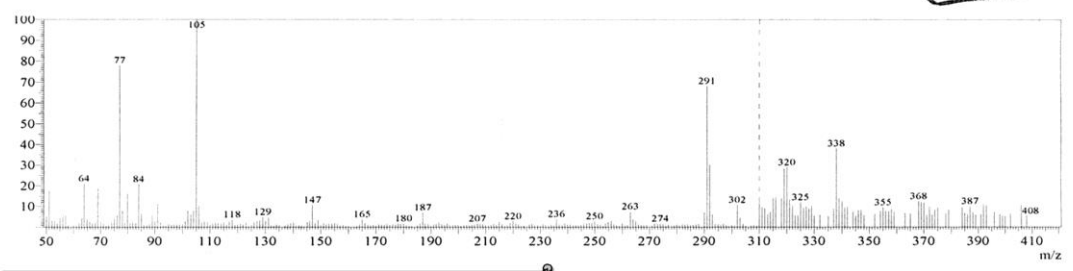


Fig. 106 Mass Spectrum of Compound (51a)

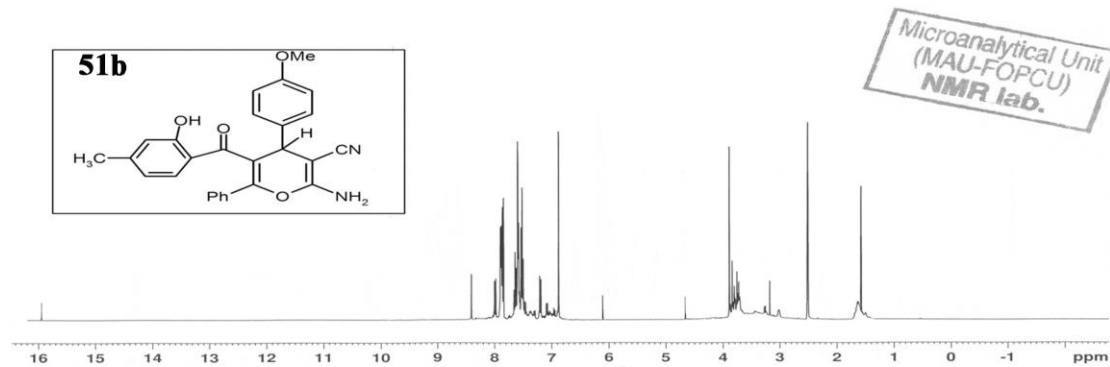
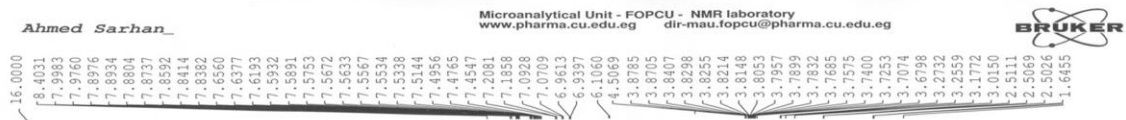
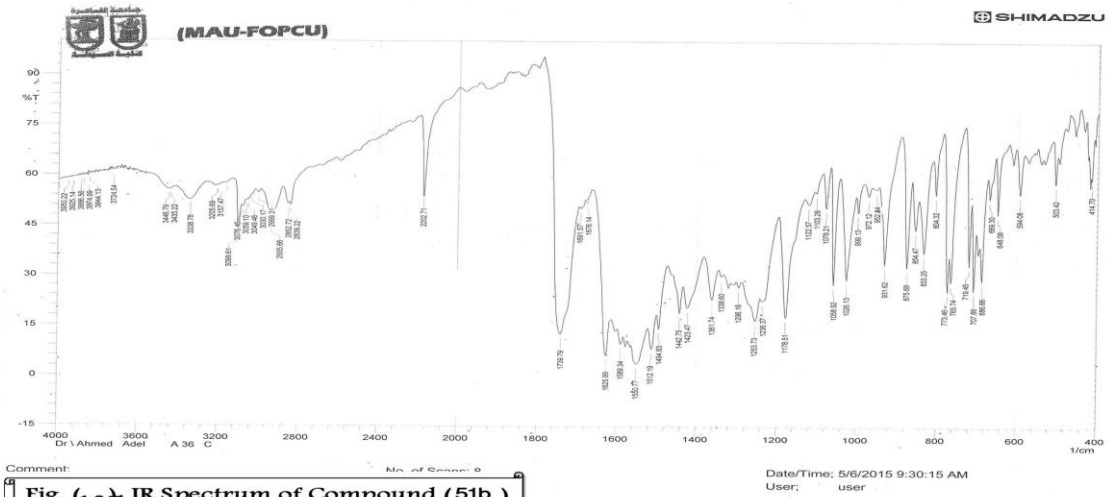


Fig. 108 ¹H-NMR Spectrum of Compound (51b).....(DMSO)

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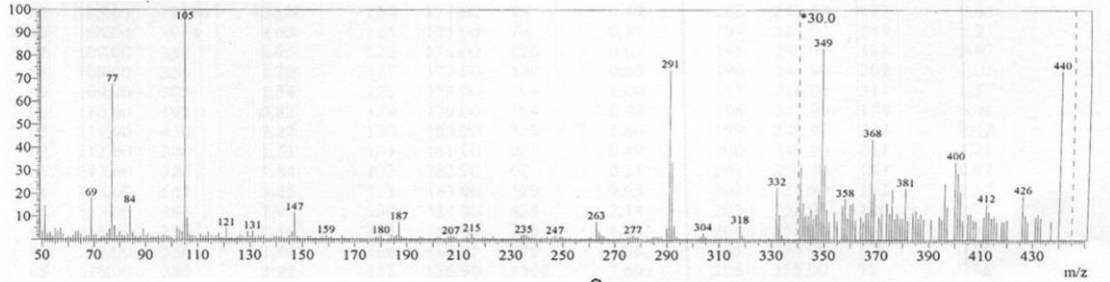
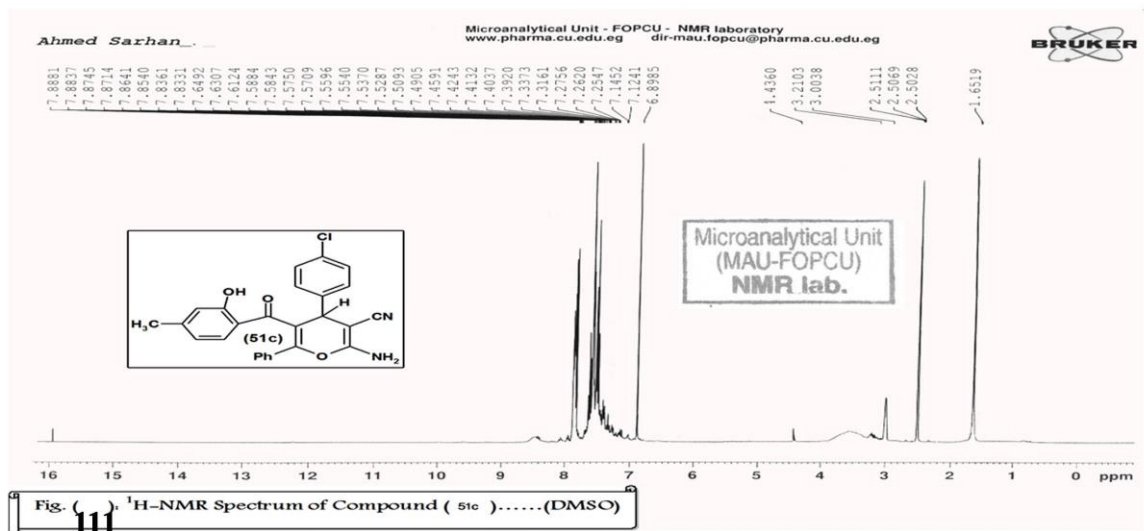
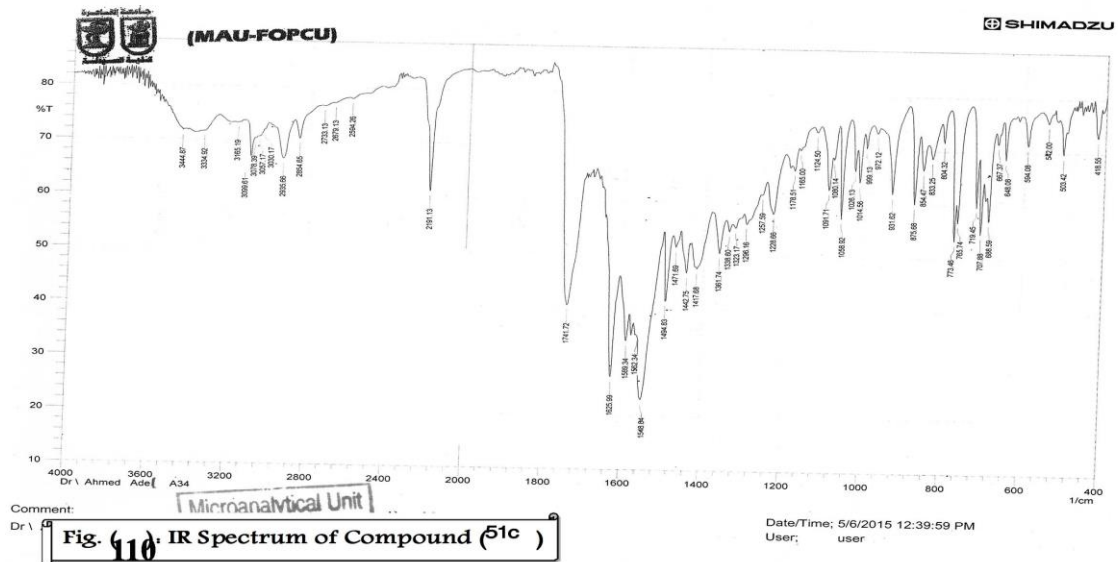
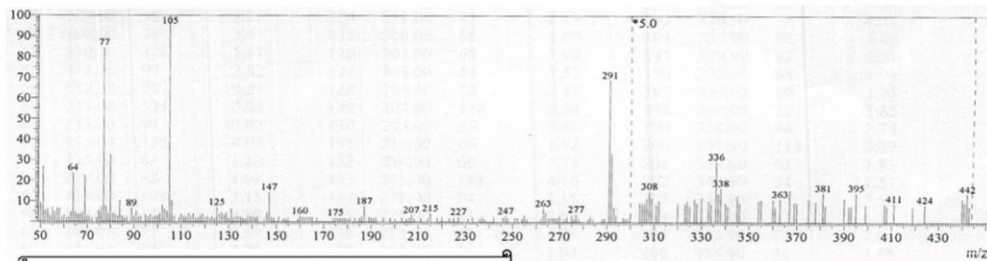


Fig. 109 Mass Spectrum of Compound (51b)



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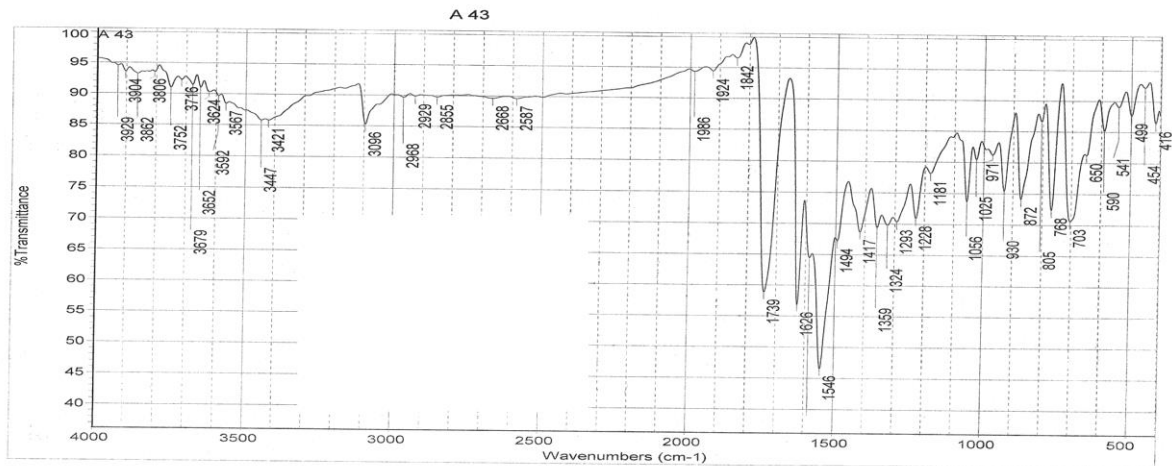


Fig. (113), IR Spectrum of Compound (54a)

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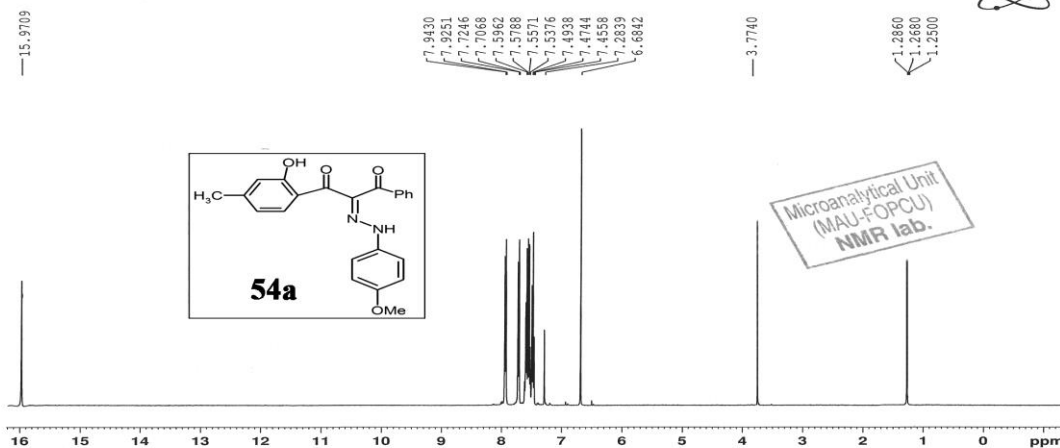


Fig. (114) ¹H-NMR Spectrum of Compound (54a).....(CDCl₃)

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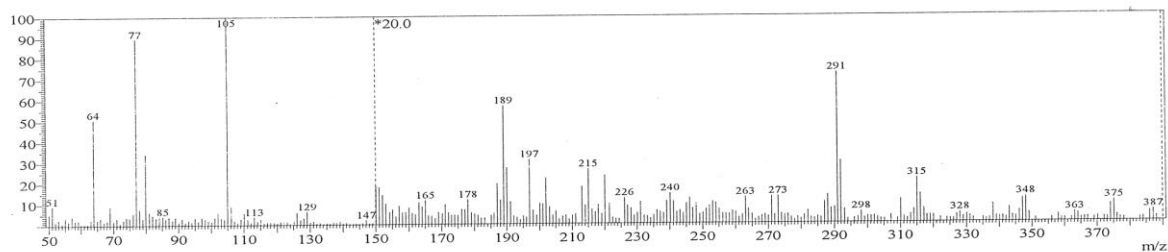


Fig. (115), Mass Spectrum of Compound (54a)

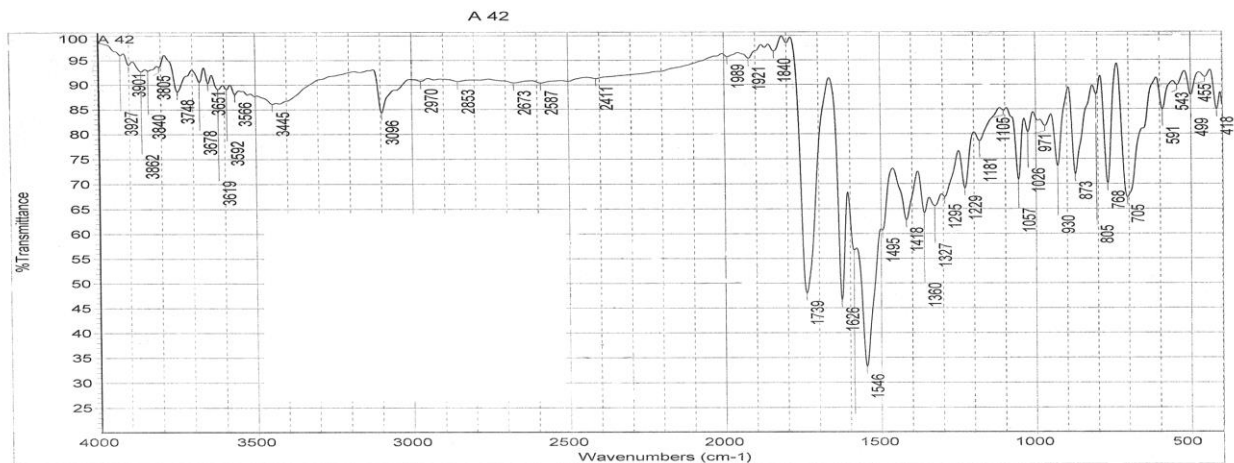


Fig. (110): IR Spectrum of Compound (54b)

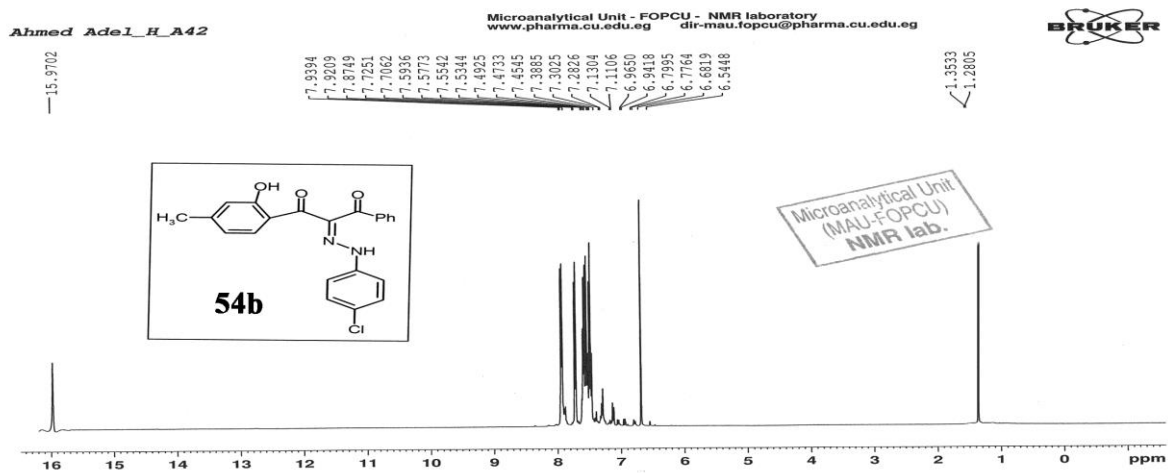


Fig. (111) ¹H-NMR Spectrum of Compound (54b).....(CDCl₃)

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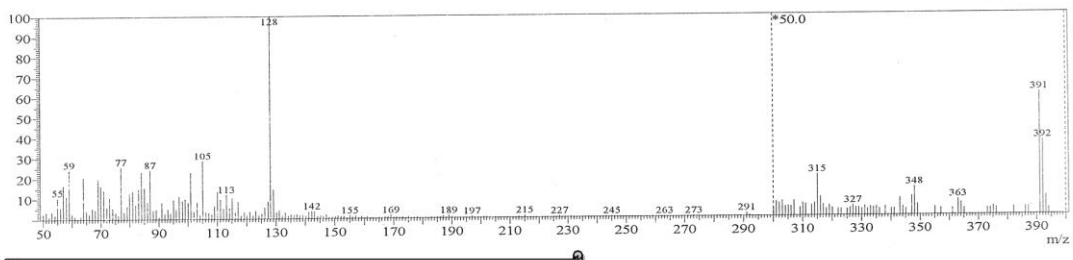


Fig. (118): Mass Spectrum of Compound (54b)

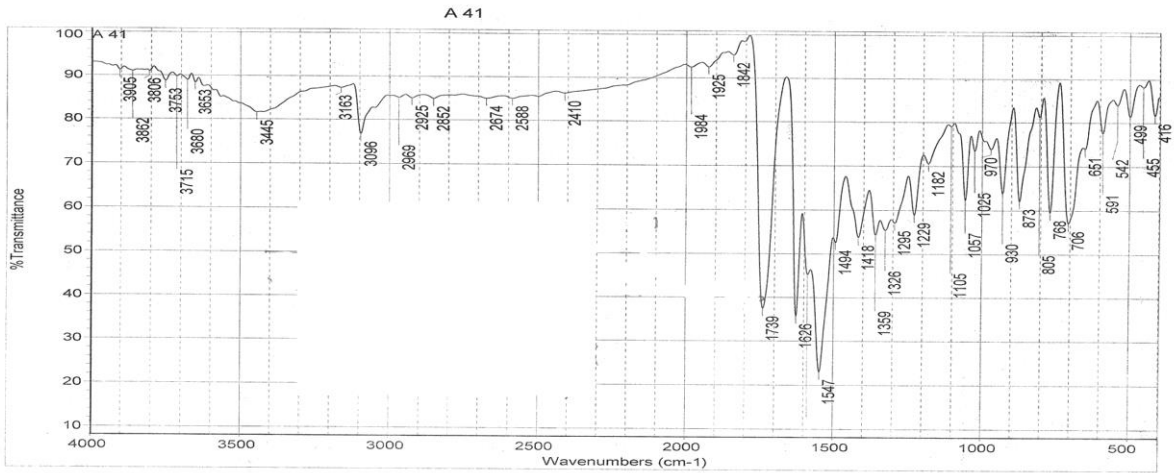


Fig. (119): IR Spectrum of Compound (54c)

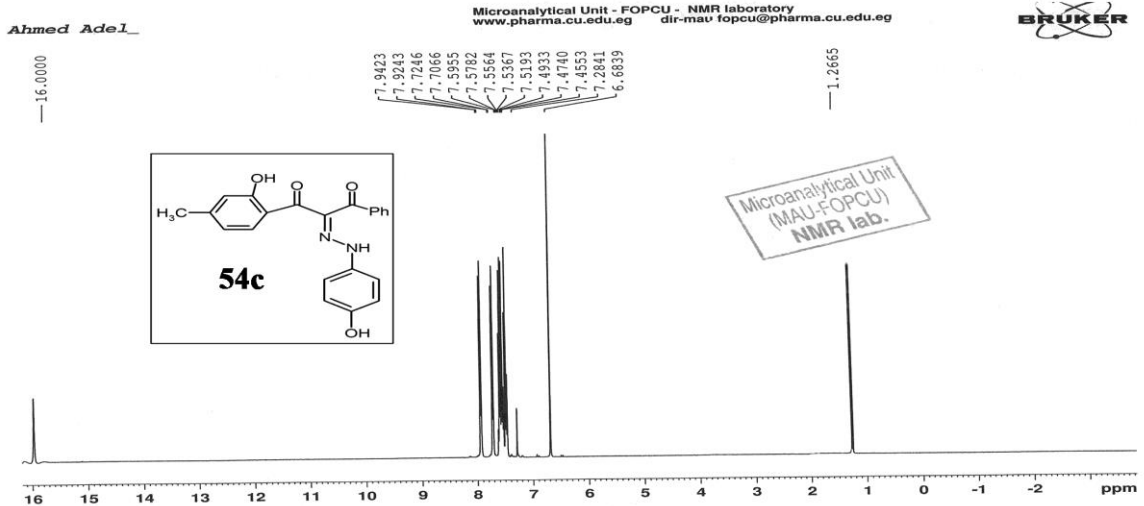


Fig. (120): ¹H-NMR Spectrum of Compound (54c).....(CDCl₃)

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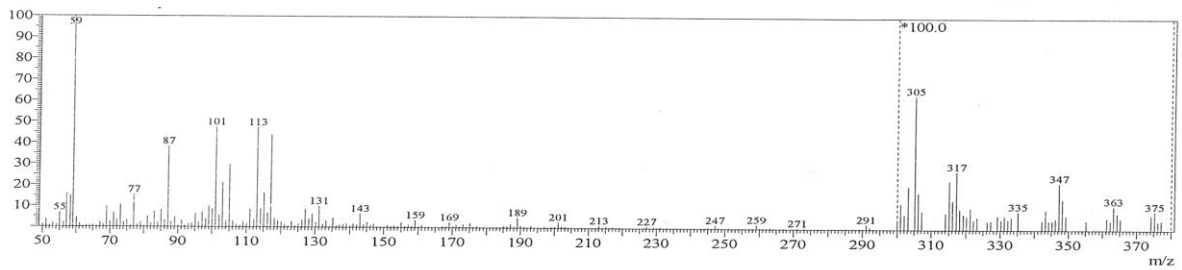


Fig. (121): Mass Spectrum of Compound (54c)

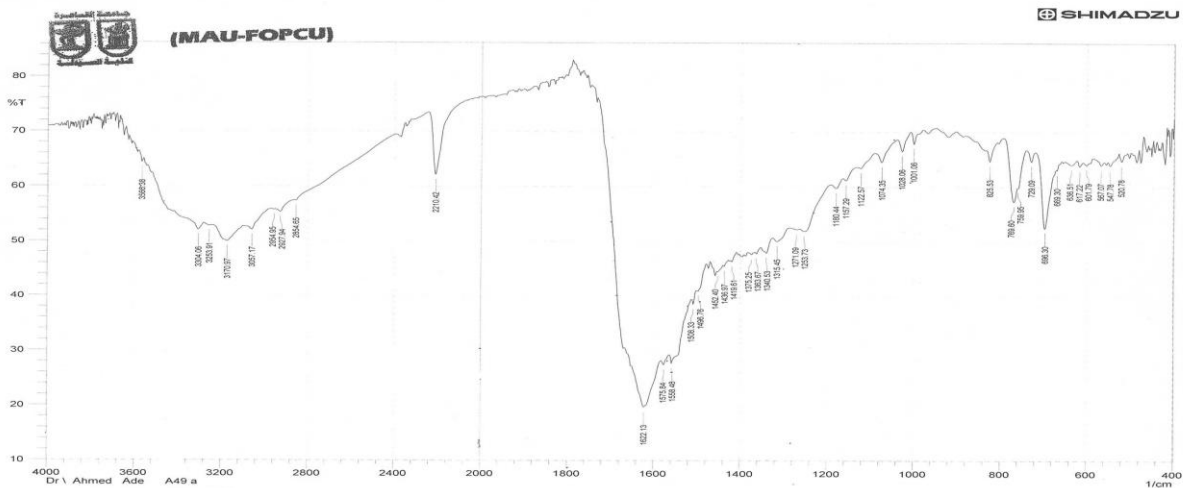


Fig. (122) IR Spectrum of Compound (57a)

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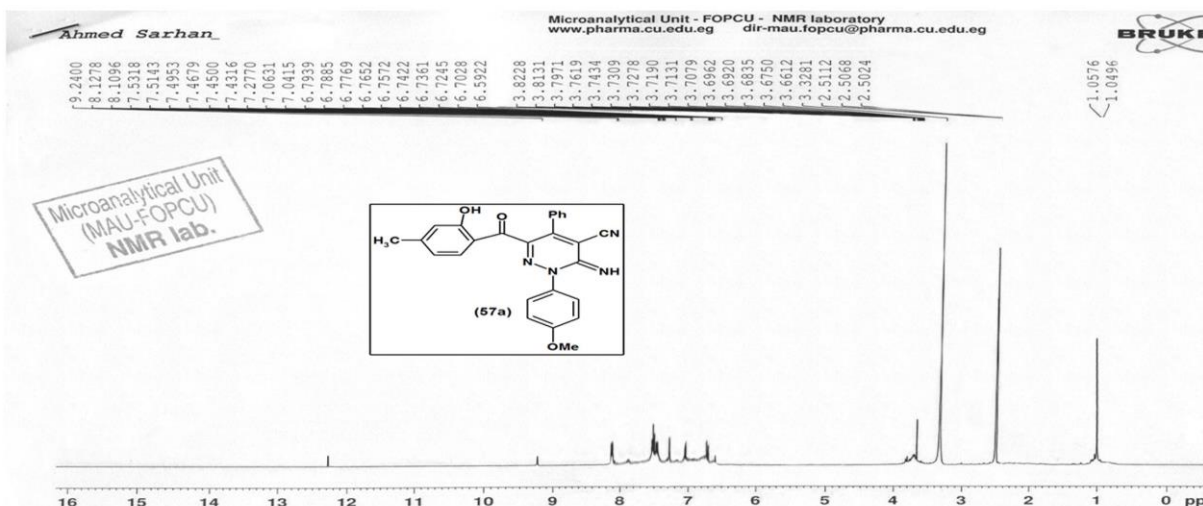


Fig. (123) ¹H-NMR Spectrum of Compound (57a).....(DMSO)

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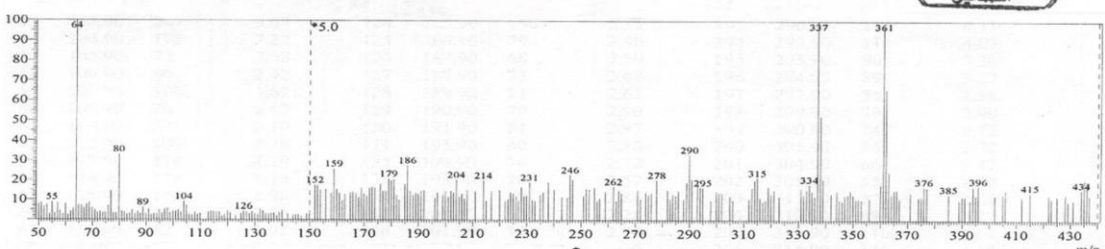


Fig. (124) Mass Spectrum of Compound (57a)

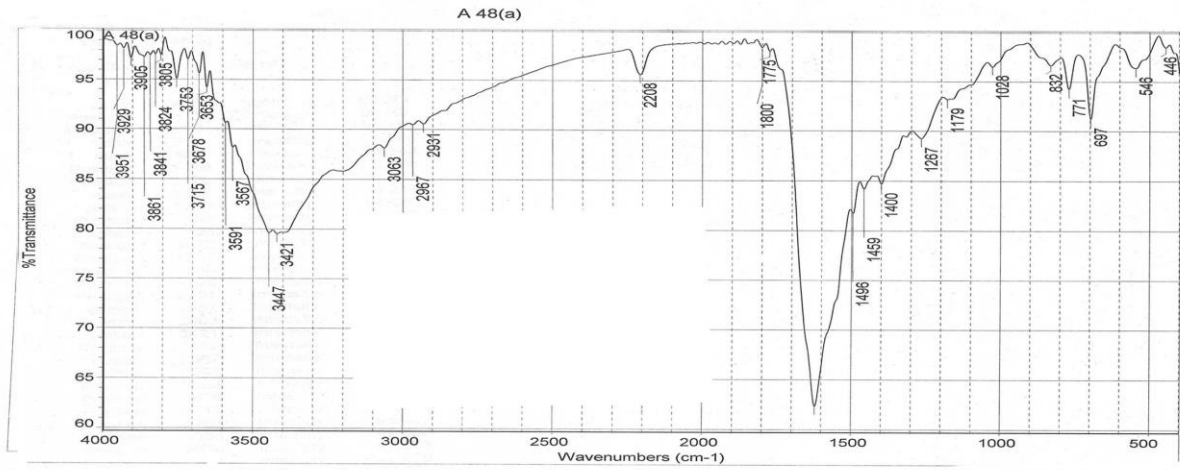


Fig. (125) IR Spectrum of Compound (57b)

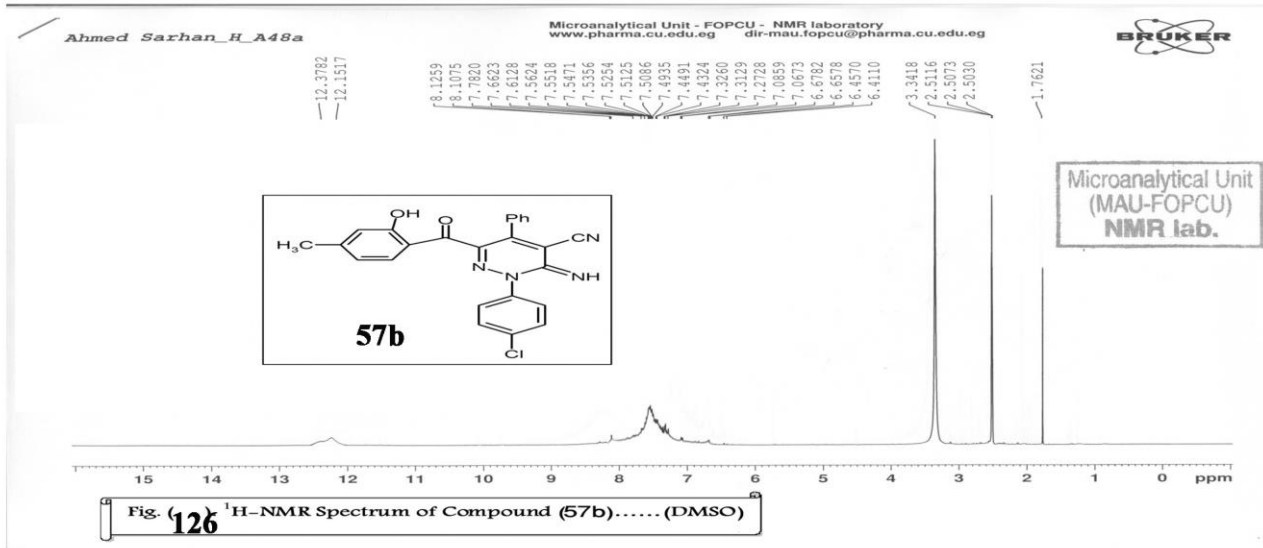


Fig. (126) ¹H-NMR Spectrum of Compound (57b).....(DMSO)

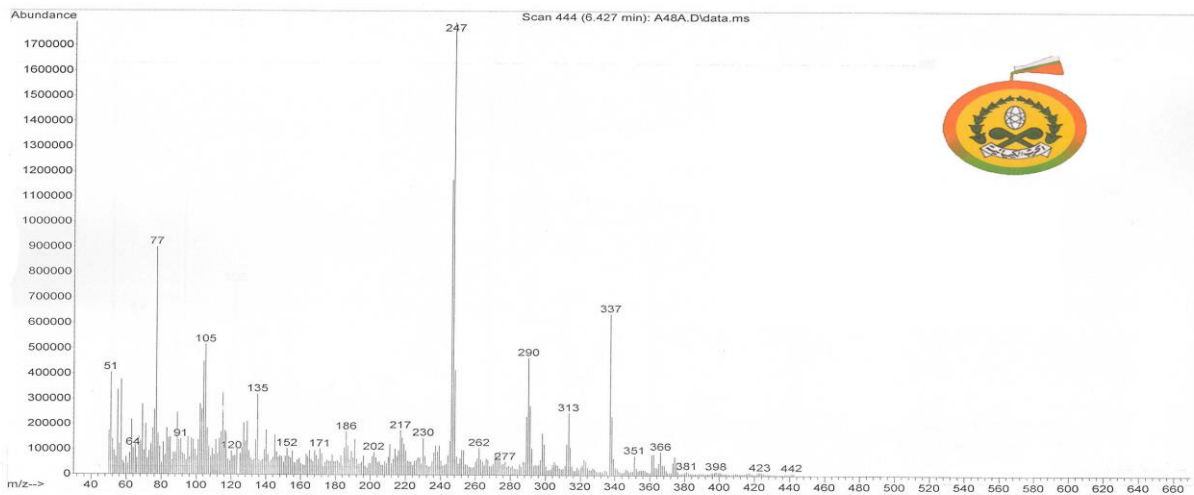


Fig. (127) Mass Spectrum of Compound (57b)

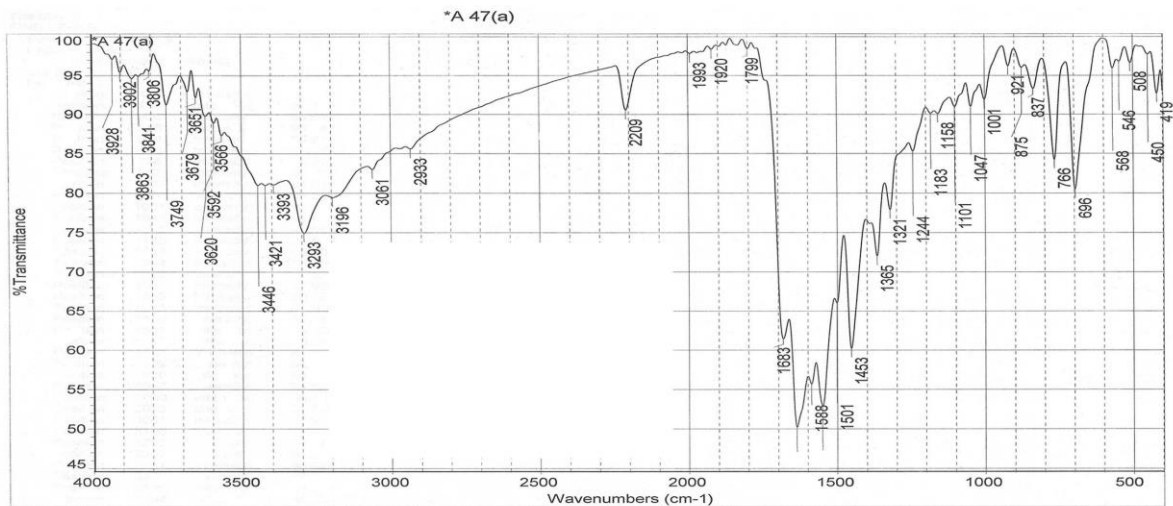


Fig. (128): IR Spectrum of Compound (57c)

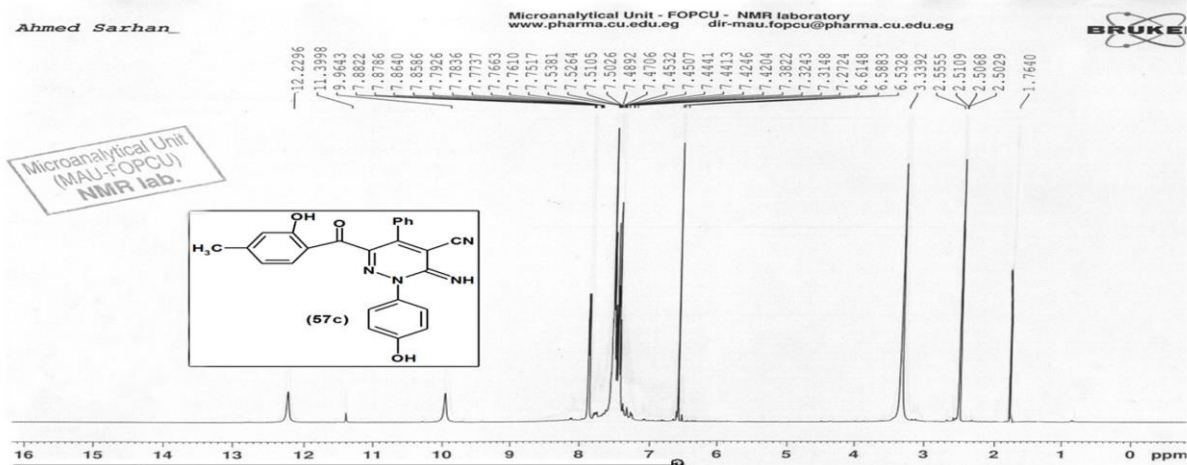


Fig. (129): ¹H-NMR Spectrum of Compound (57c).....(DMSO)

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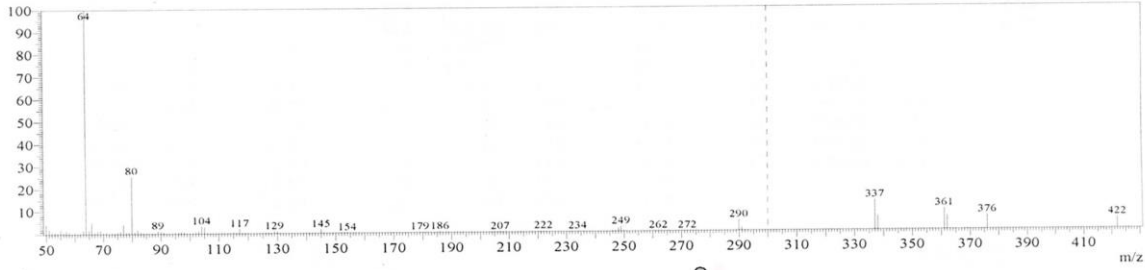


Fig. (130): Mass Spectrum of Compound (57c)