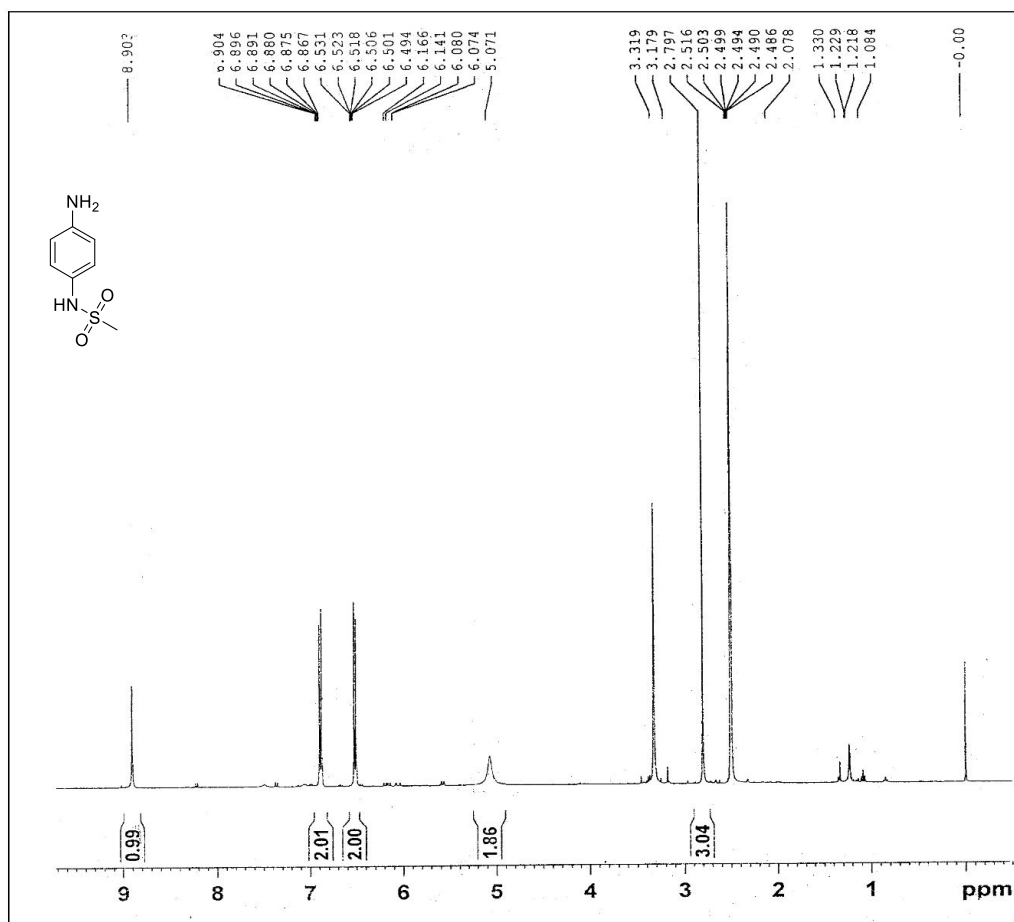
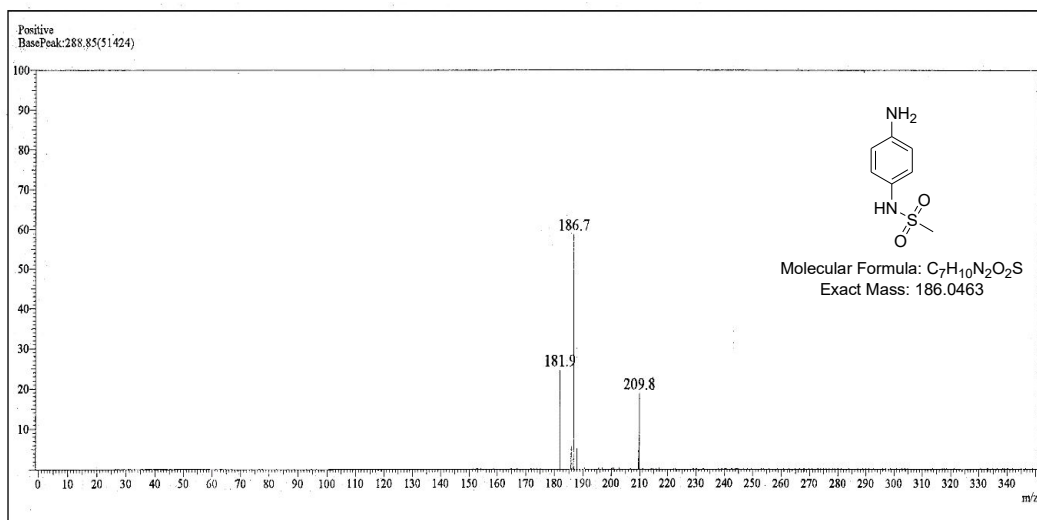
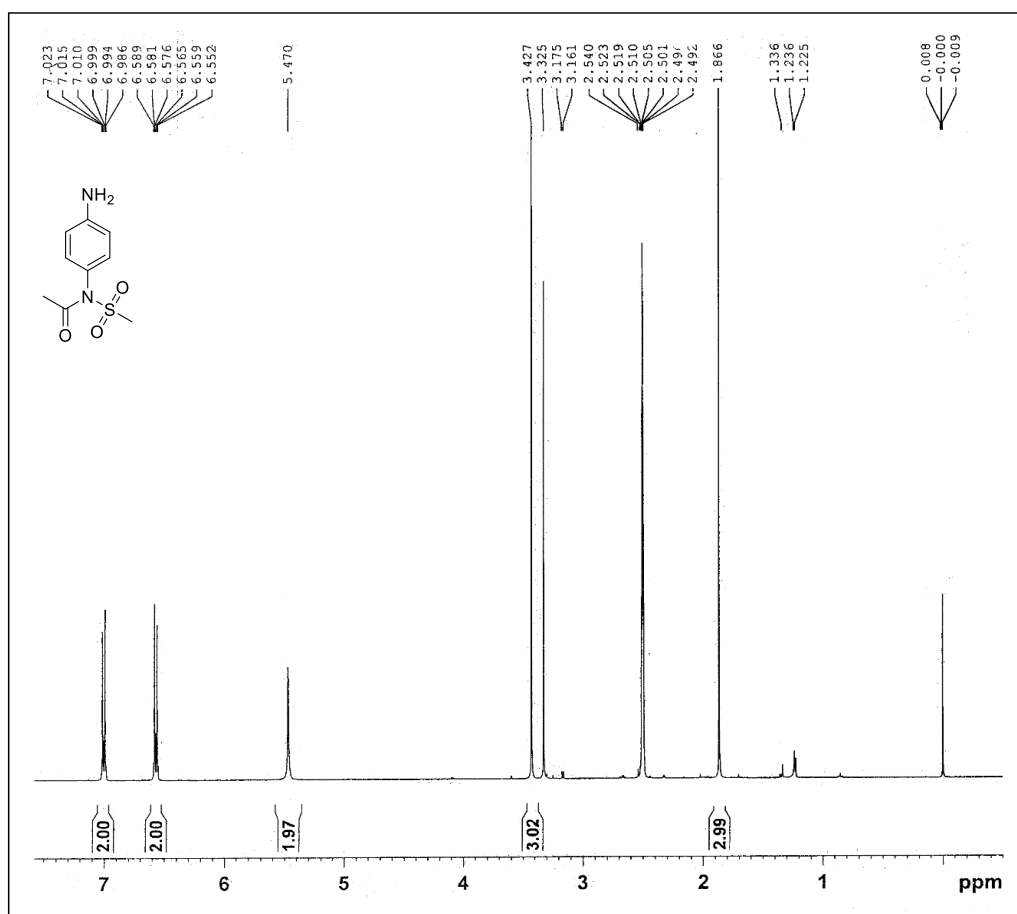
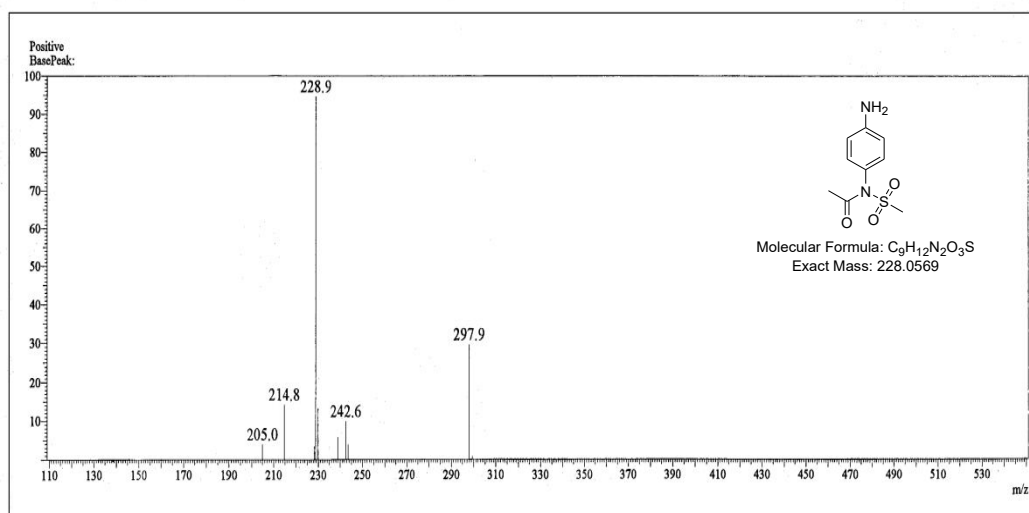
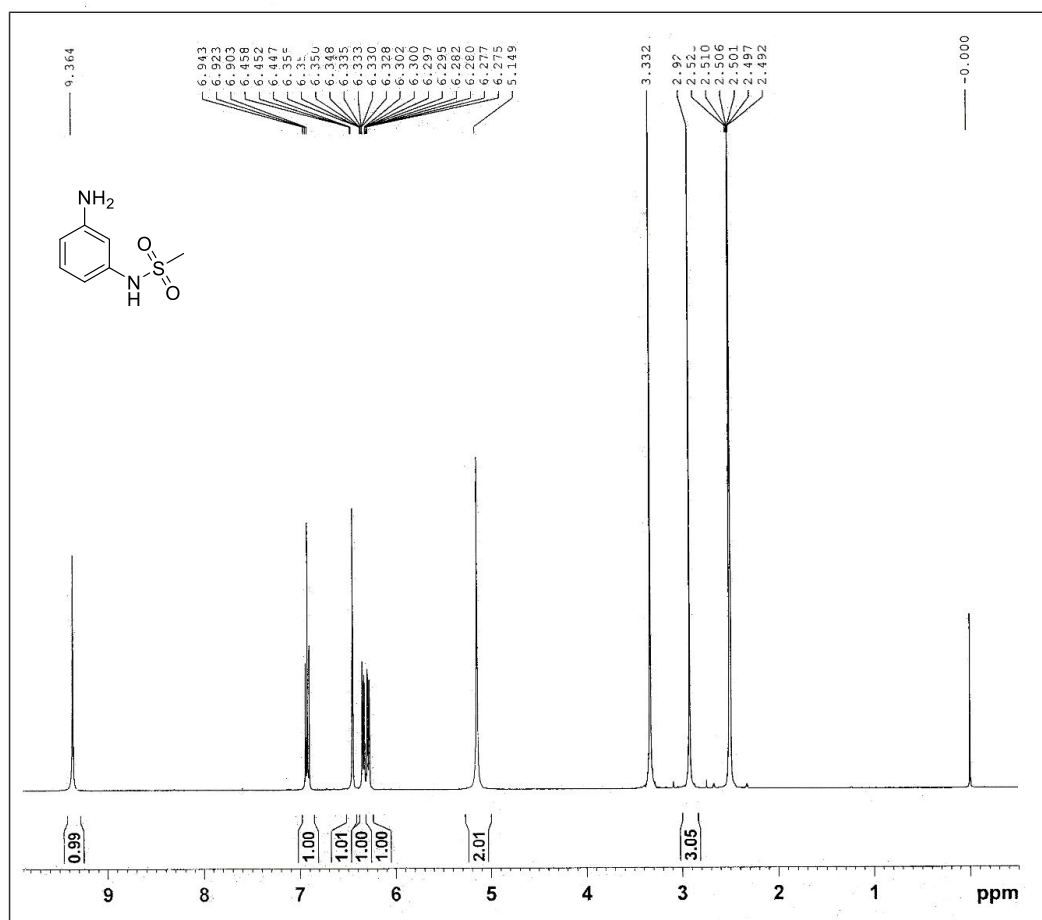
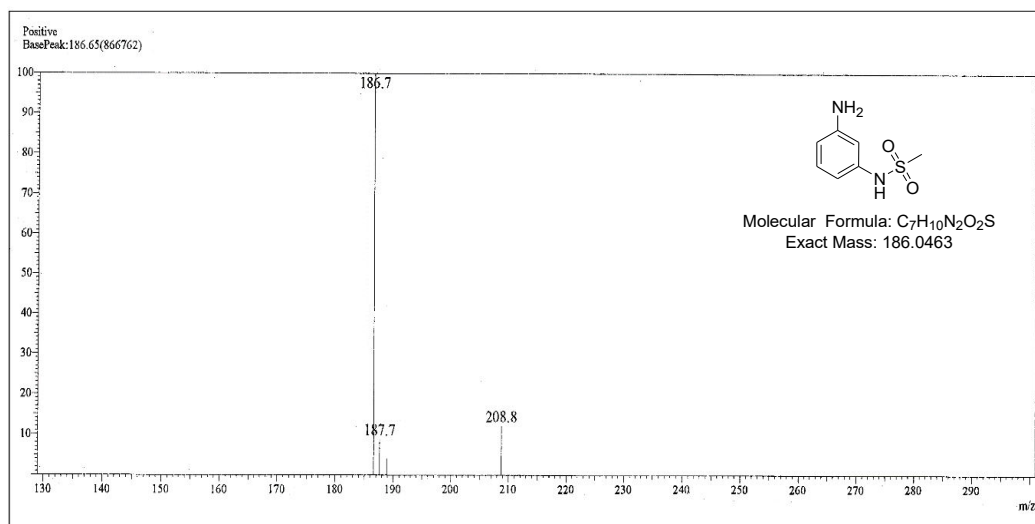
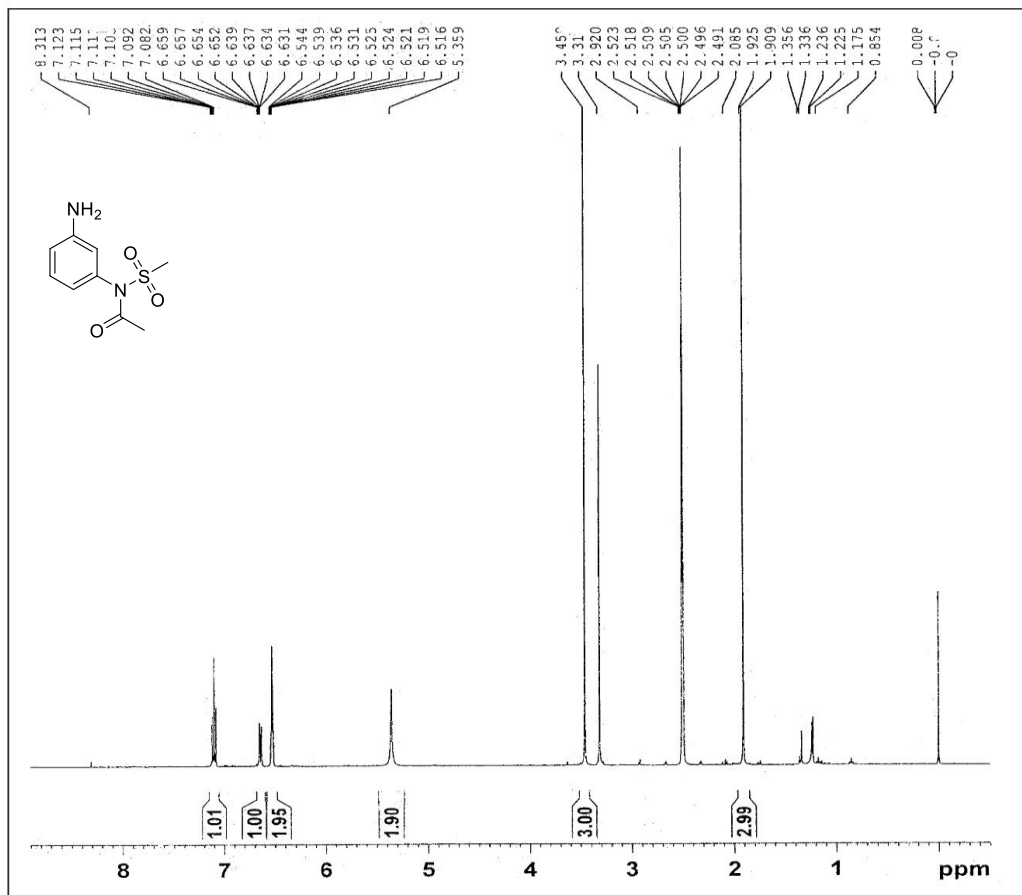
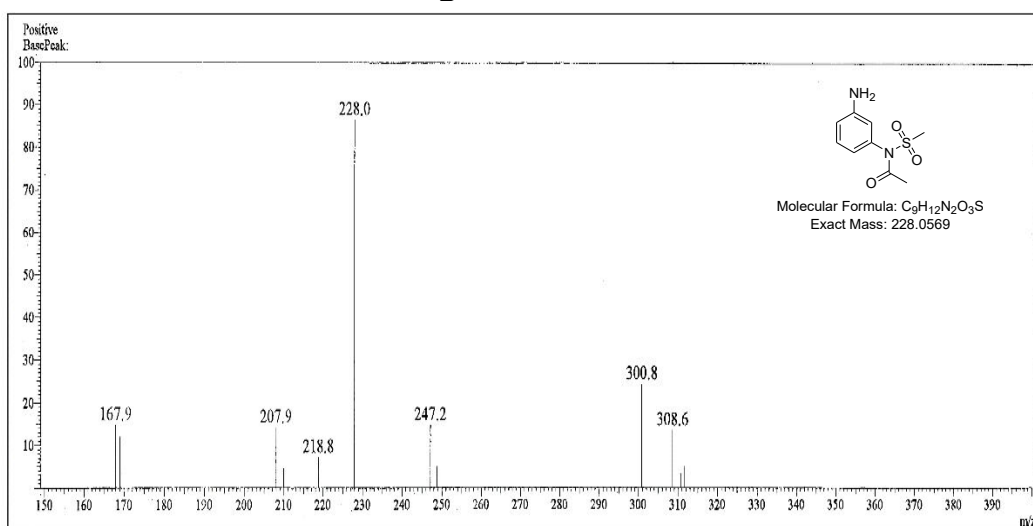
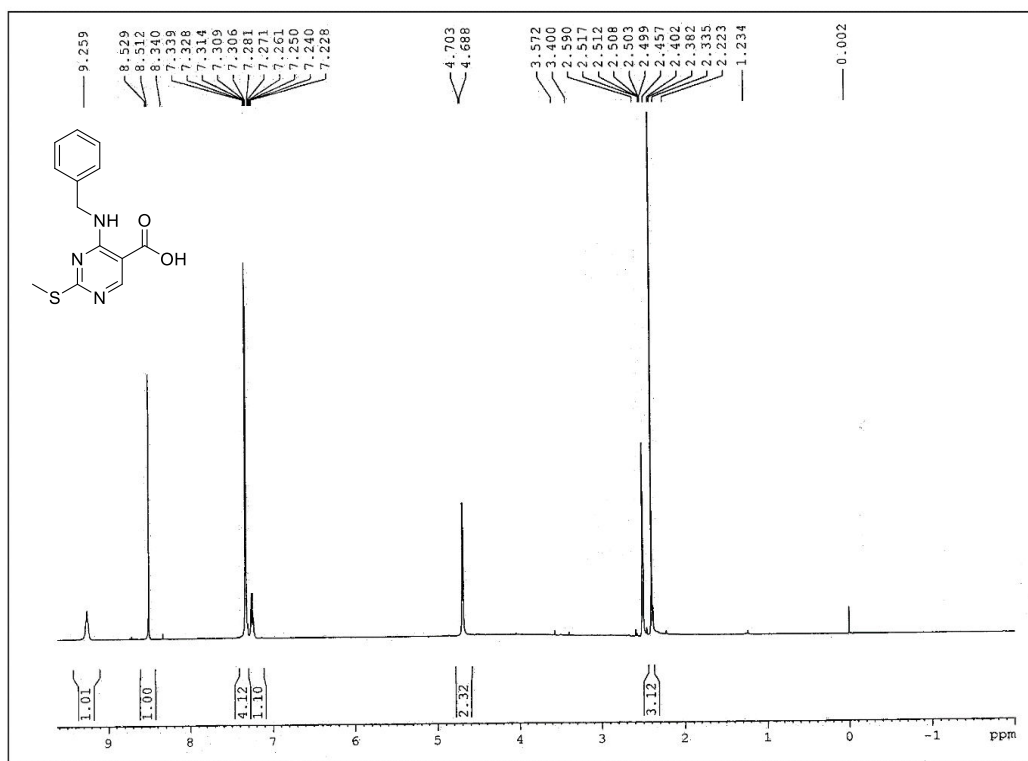
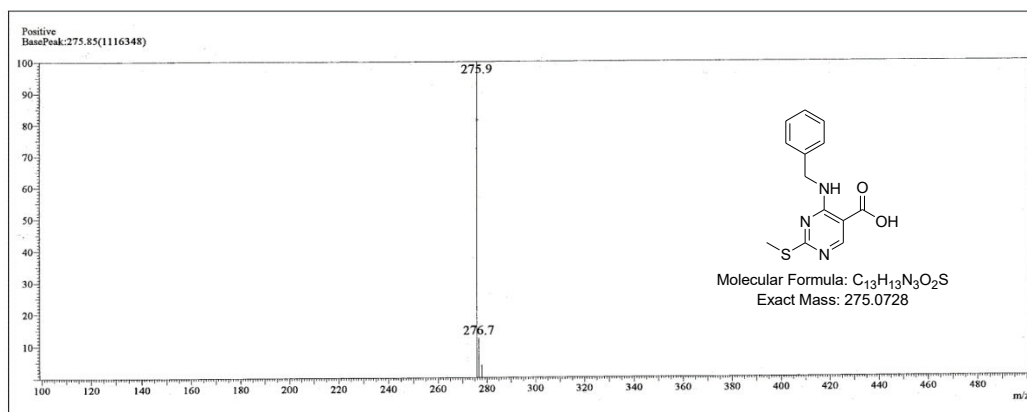
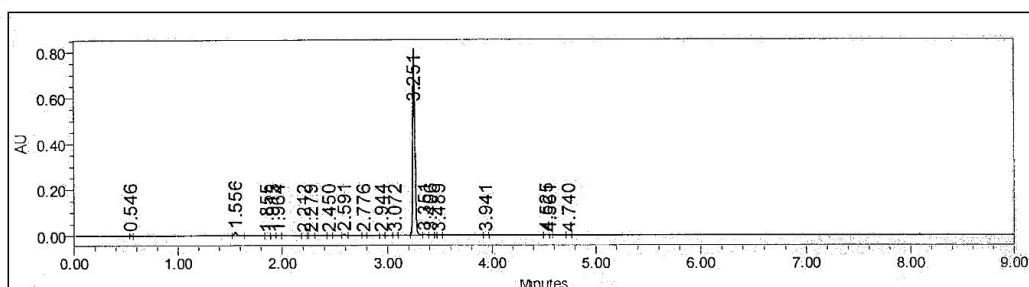


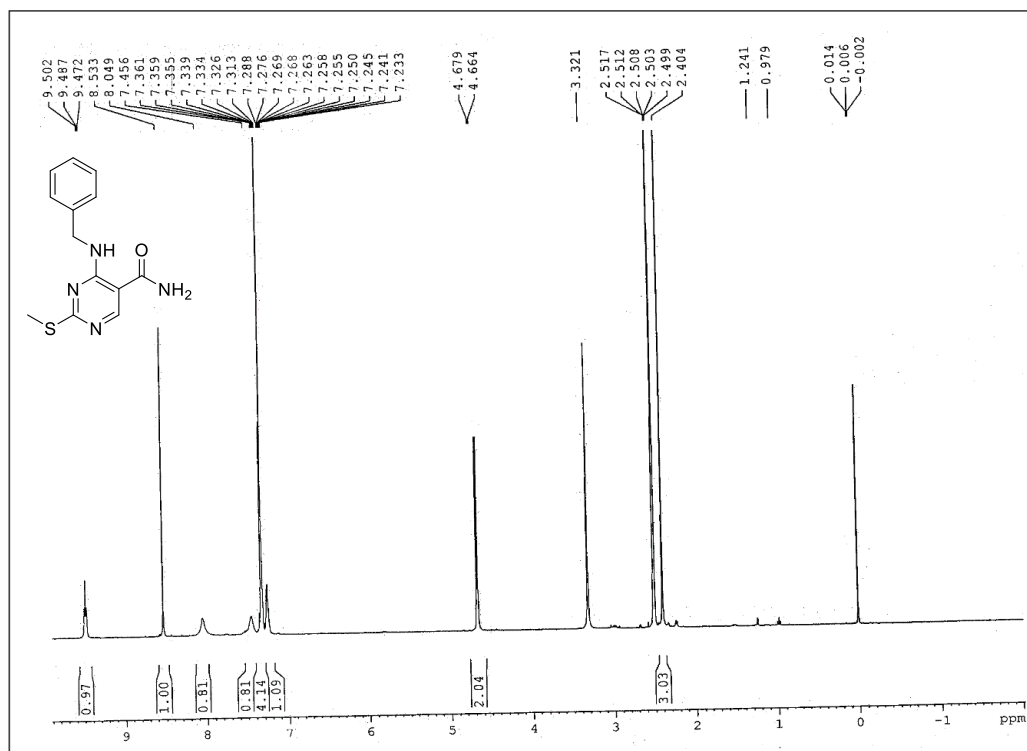
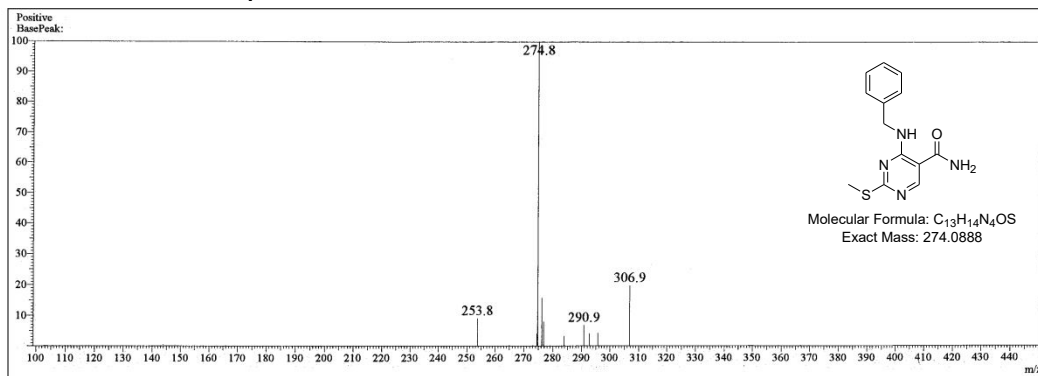
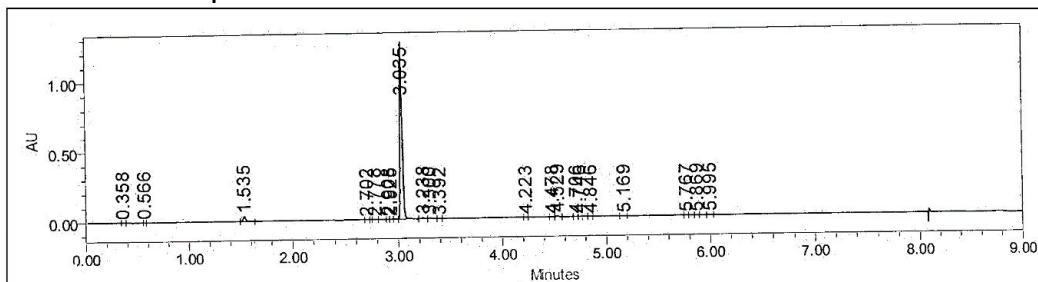
<sup>1</sup>H NMR of intermediate **41h**ESI-MS of intermediate **41h**

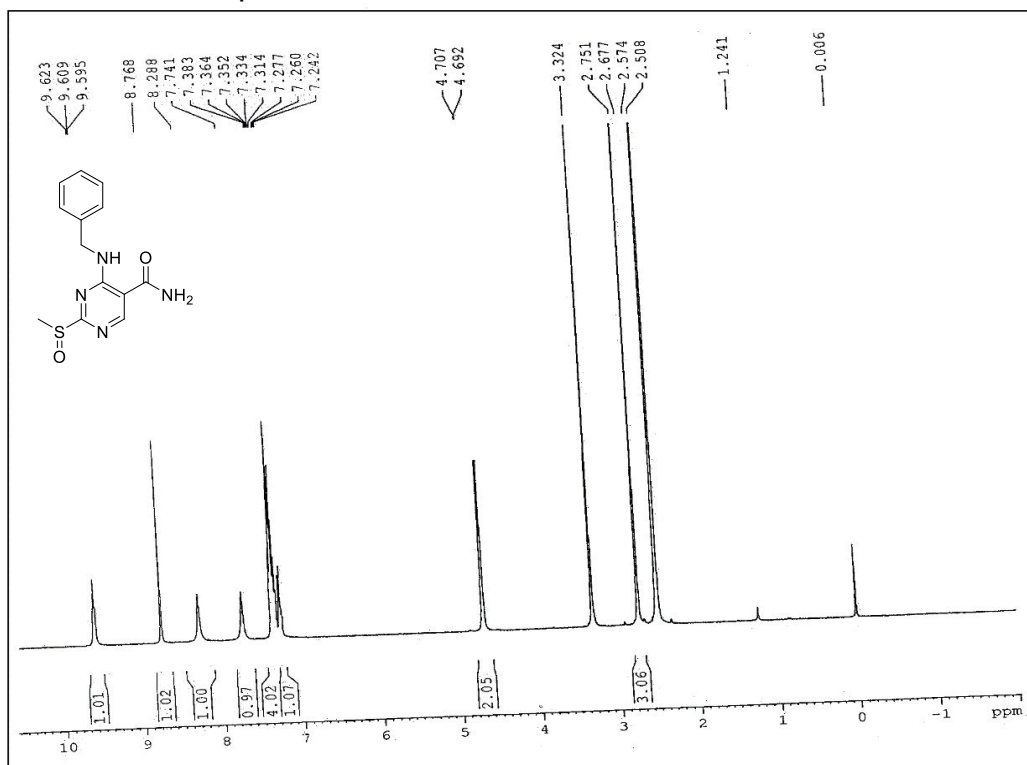
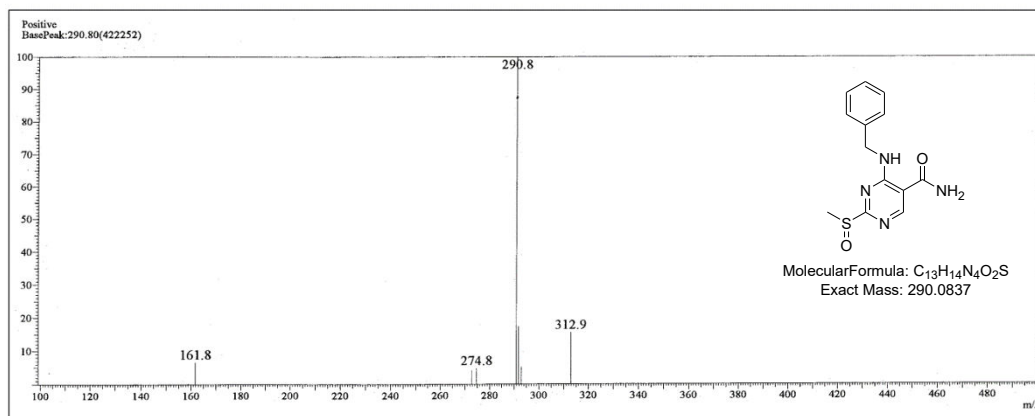
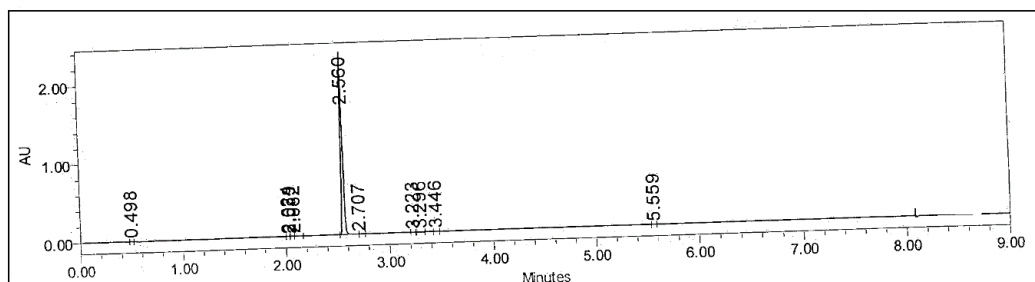
<sup>1</sup>H NMR of intermediate **41j**ESI-MS of intermediate **41j**

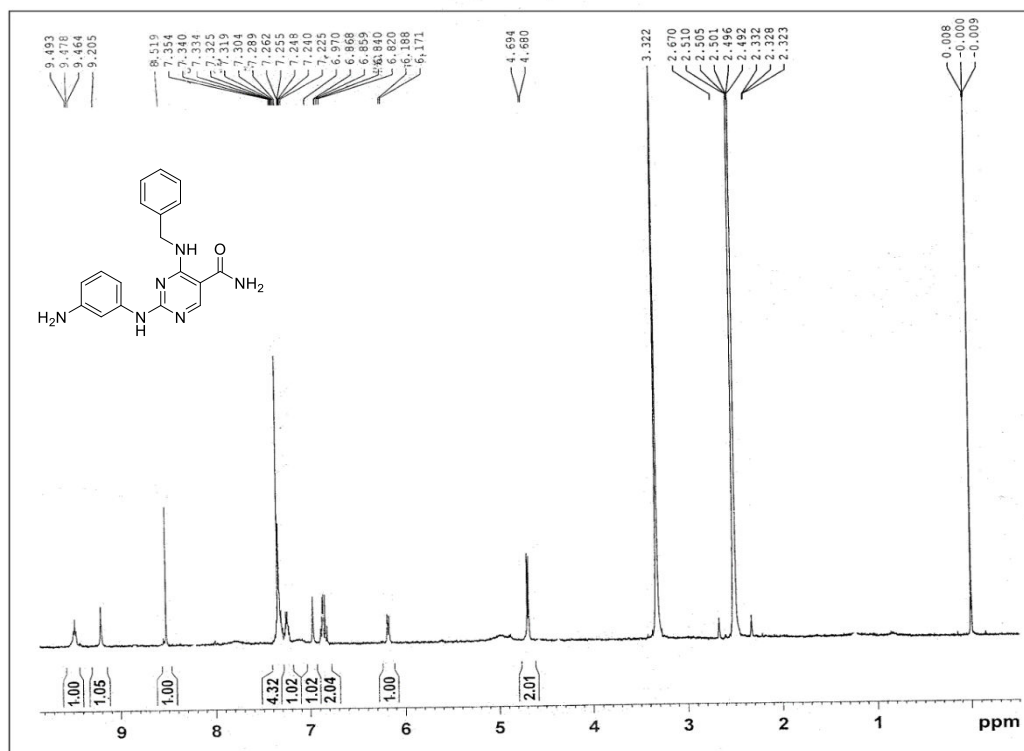
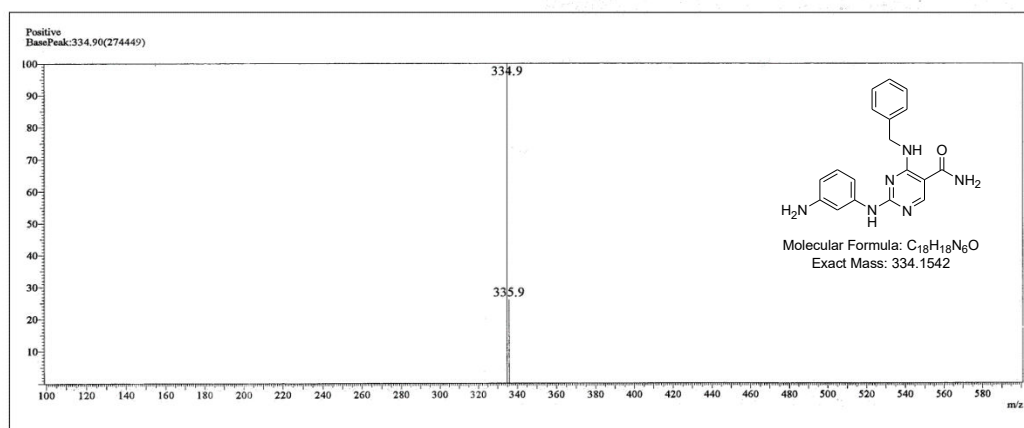
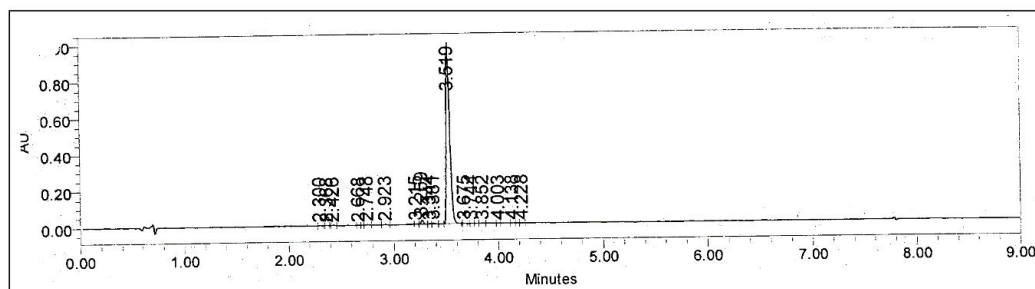
<sup>1</sup>H NMR of intermediate **41e**ESI-MS of intermediate **41e**

$^1\text{H}$  NMR of intermediate **41g**ESI-MS of intermediate **41g**

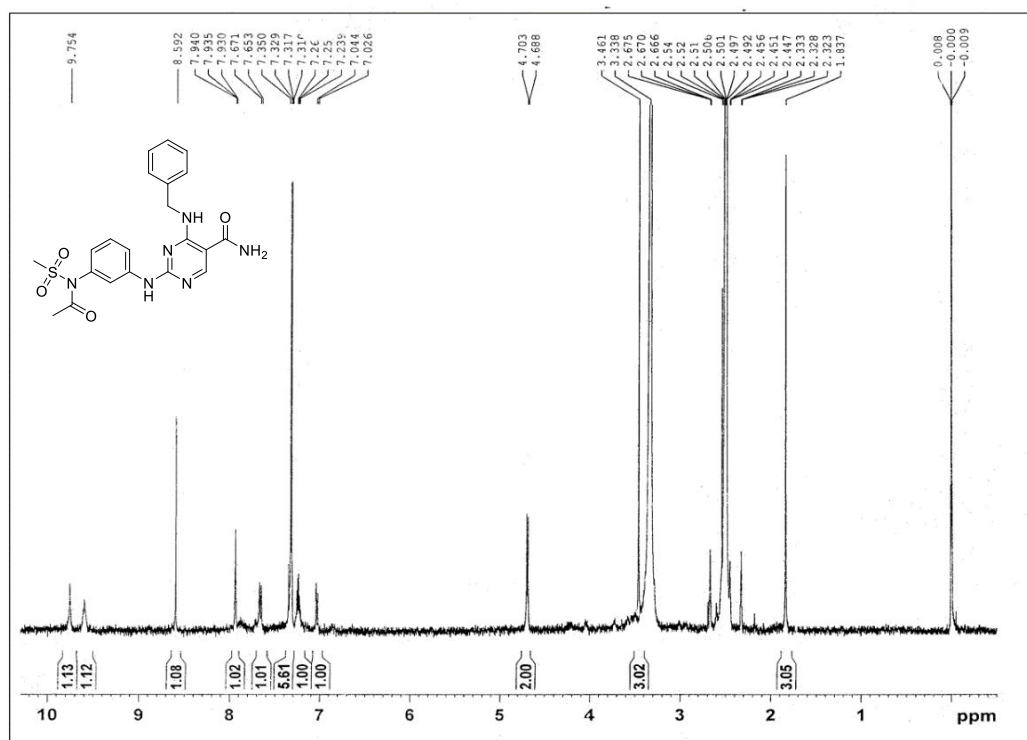
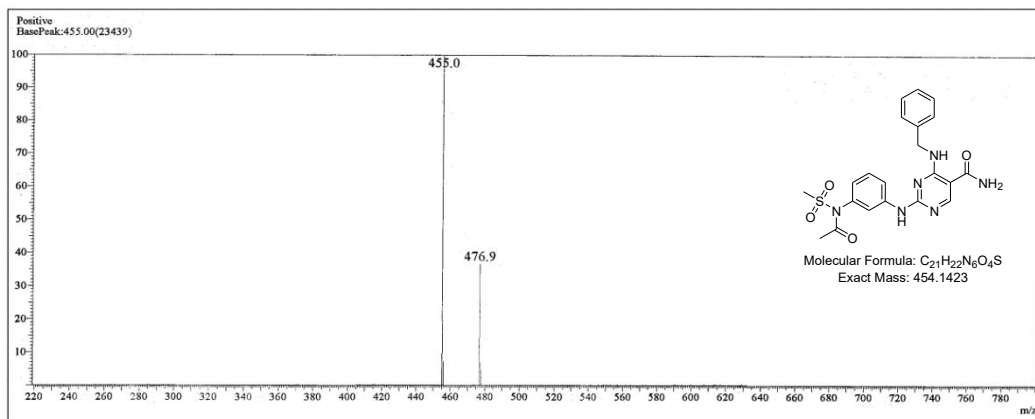
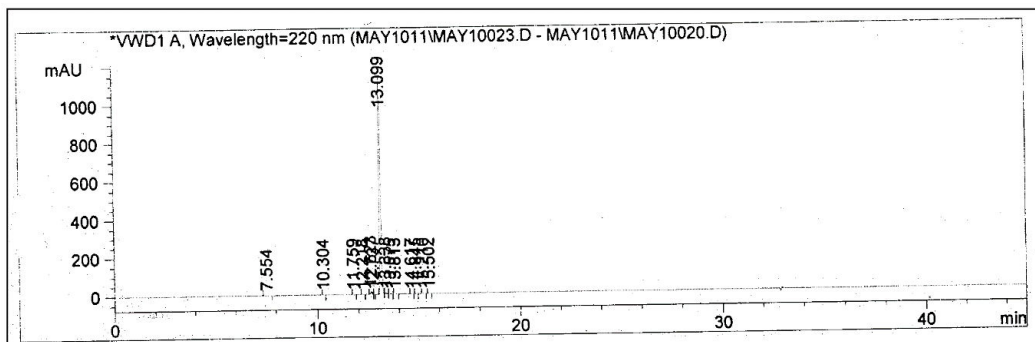
<sup>1</sup>H NMR of intermediate **38**ESI-MS of intermediate **38**UPLC of compound **38**

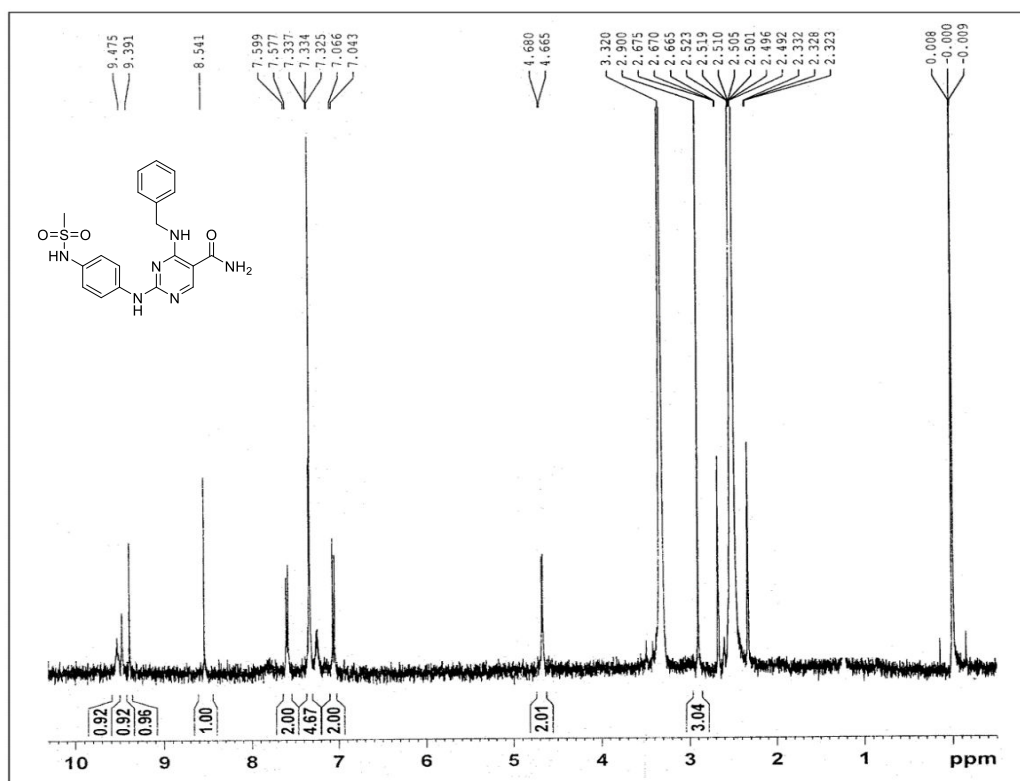
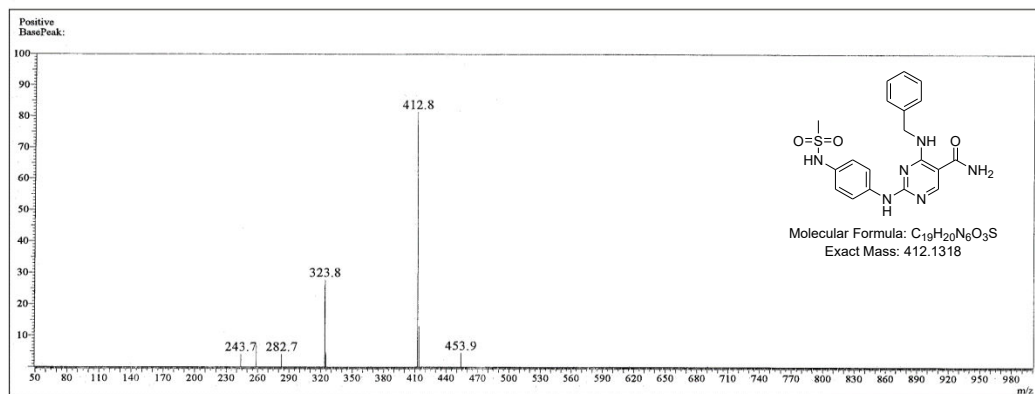
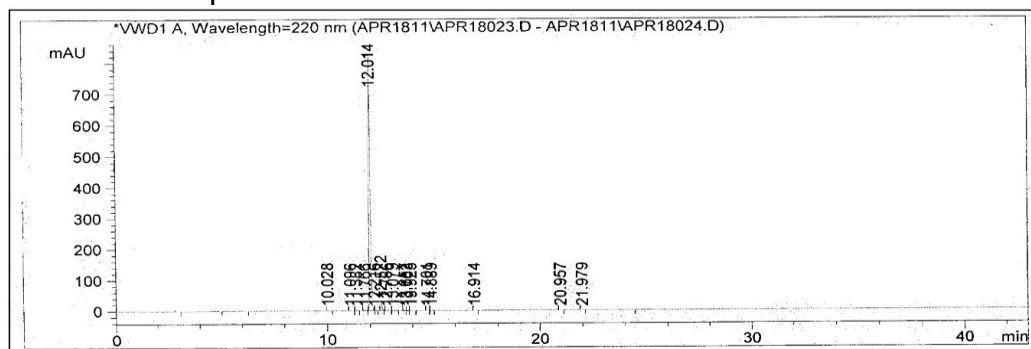
<sup>1</sup>H NMR of compound **39**ESI-MS of compound **39**UPLC of compound **39**

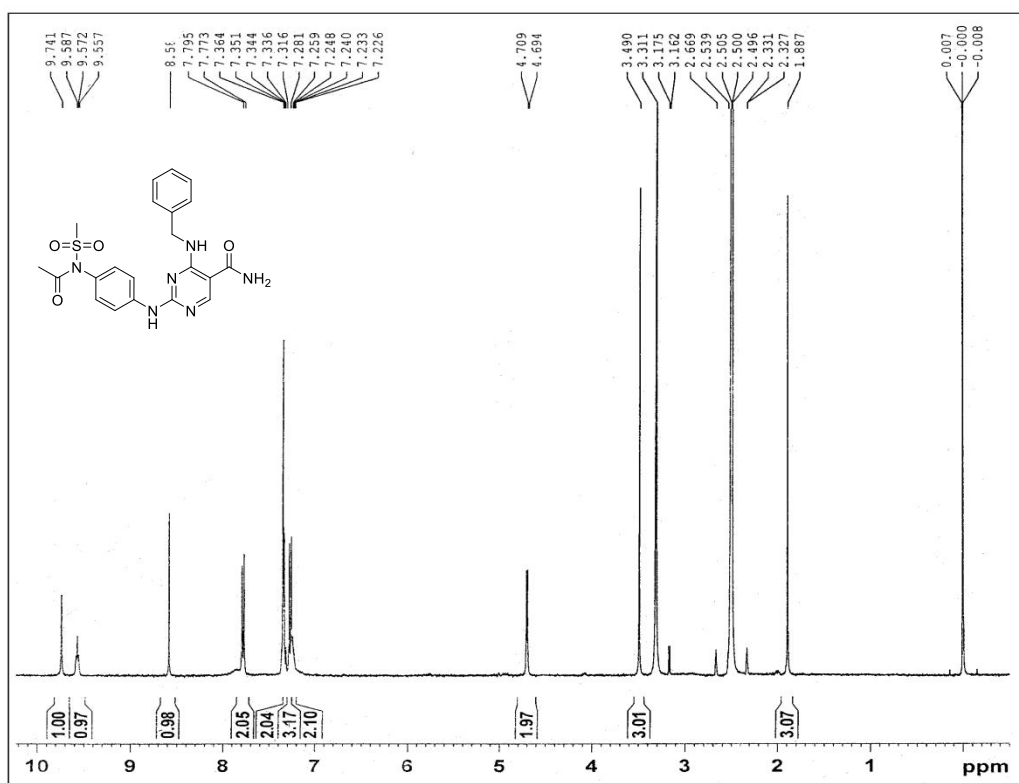
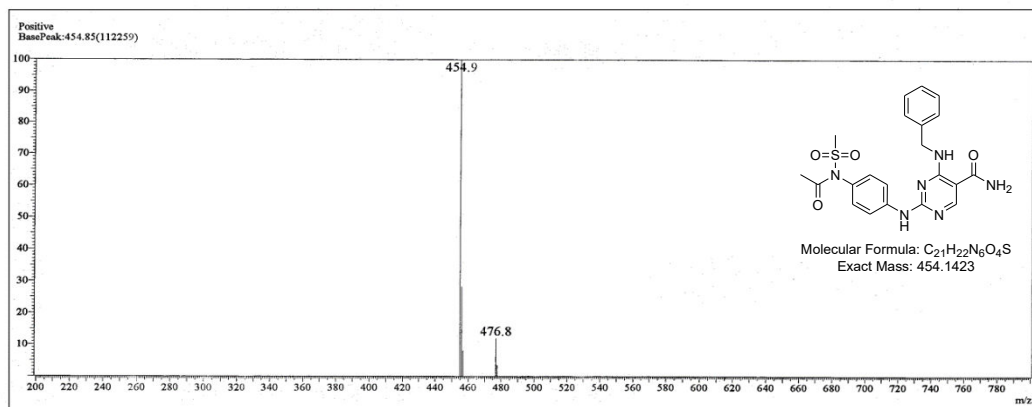
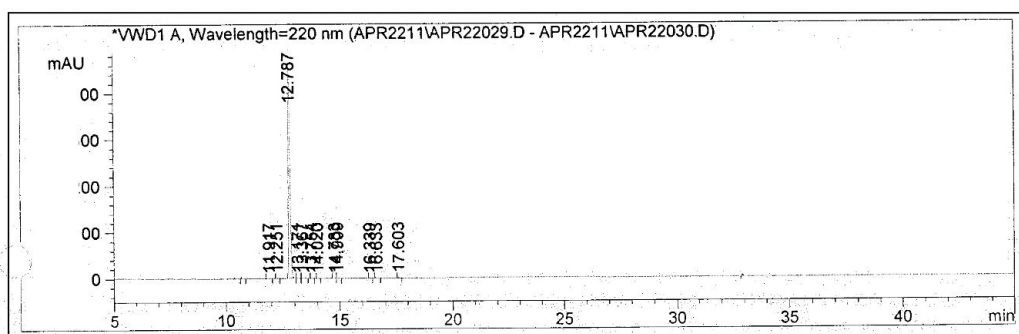
<sup>1</sup>H NMR of compound **40**ESI-MS of compound **40**UPLC of compound **40**

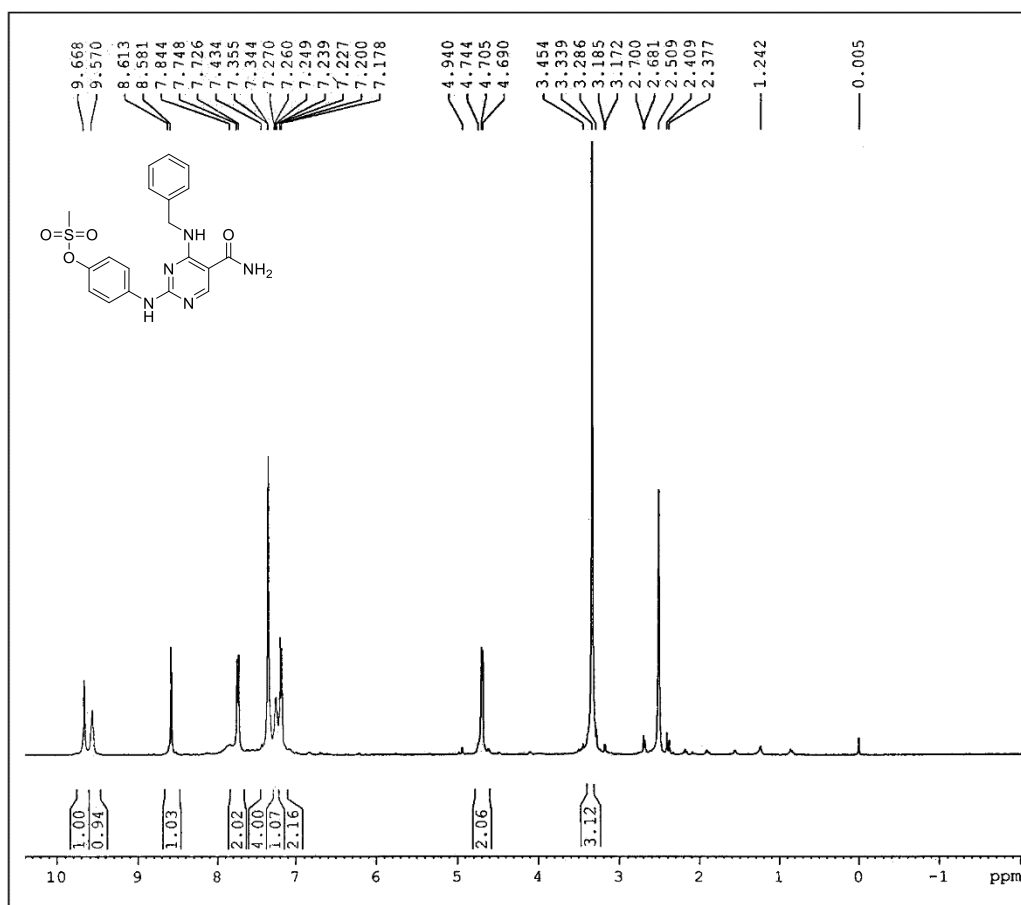
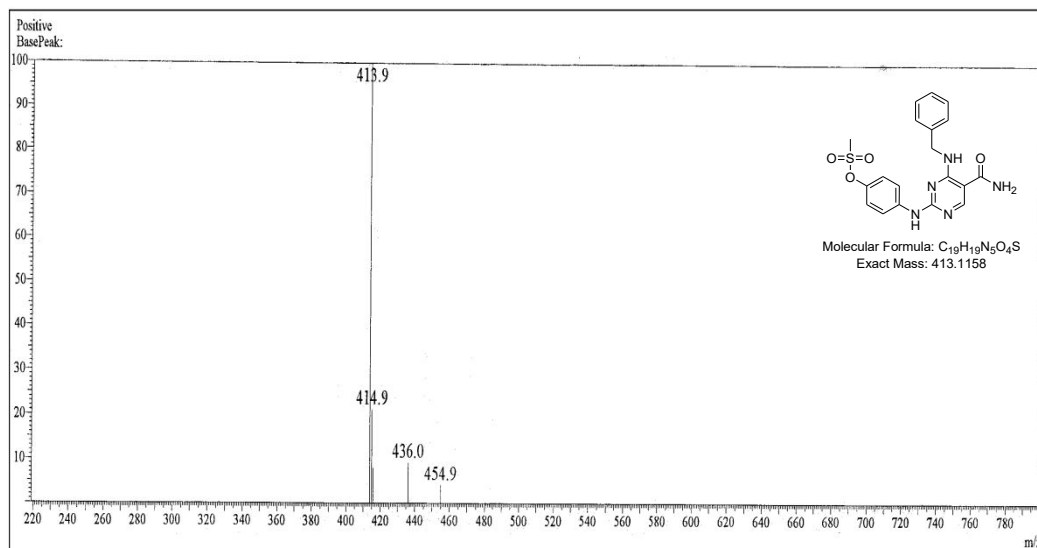
<sup>1</sup>H NMR of compound **41a**ESI-MS of compound **41a**UPLC of compound **41a**

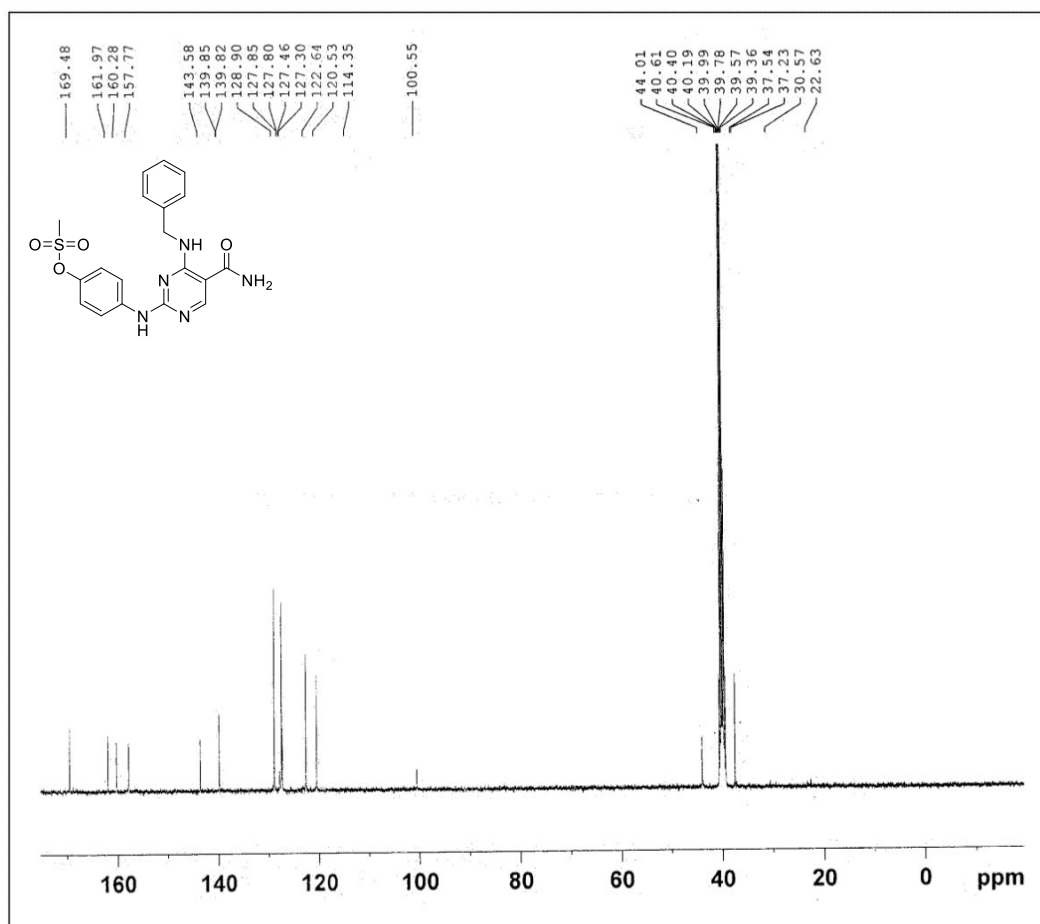
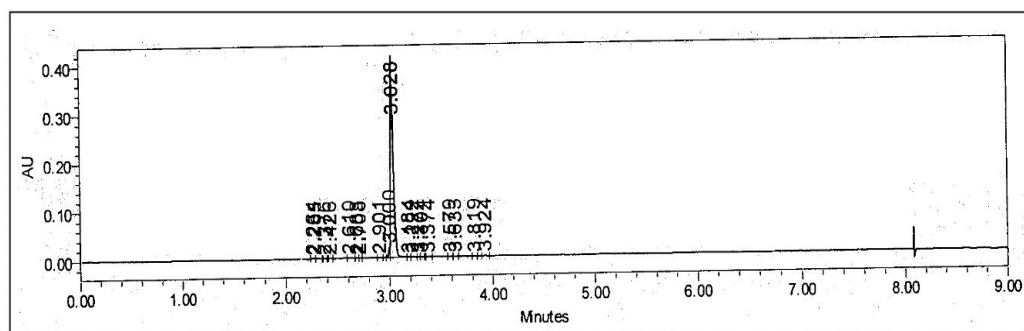


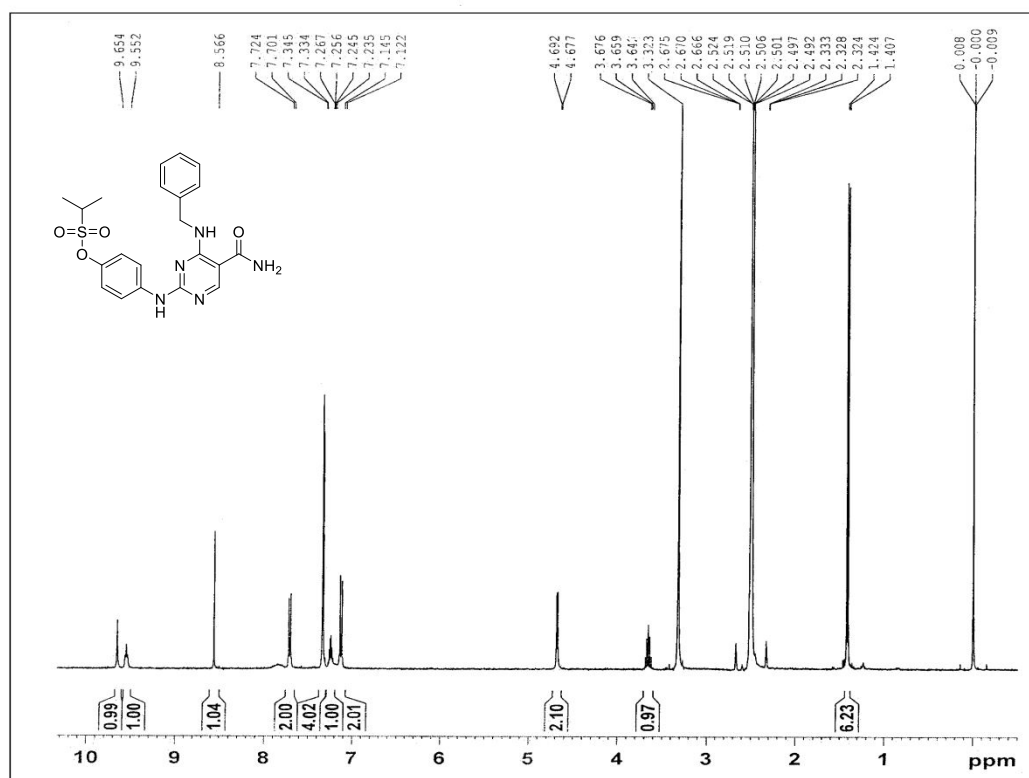
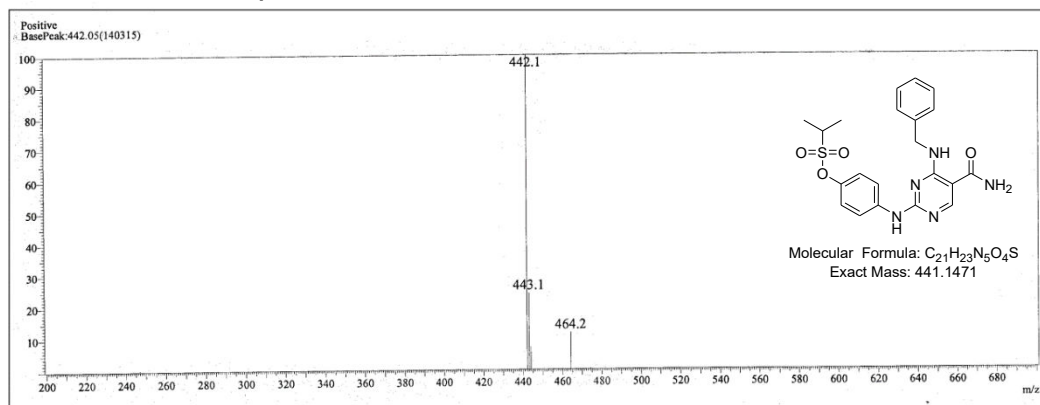
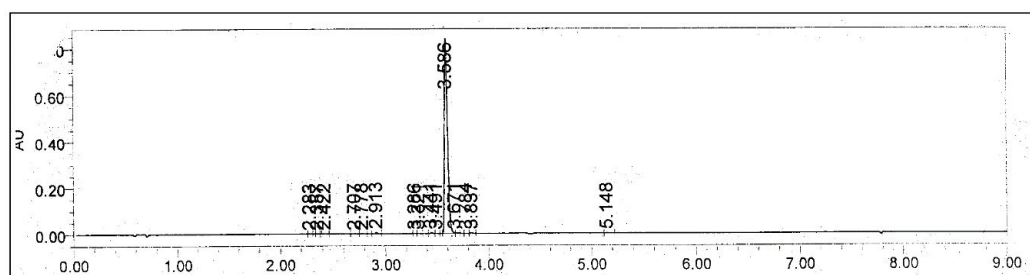
<sup>1</sup>H NMR of compound **41g**ESI-MS of compound **41g**HPLC of compound **41g**

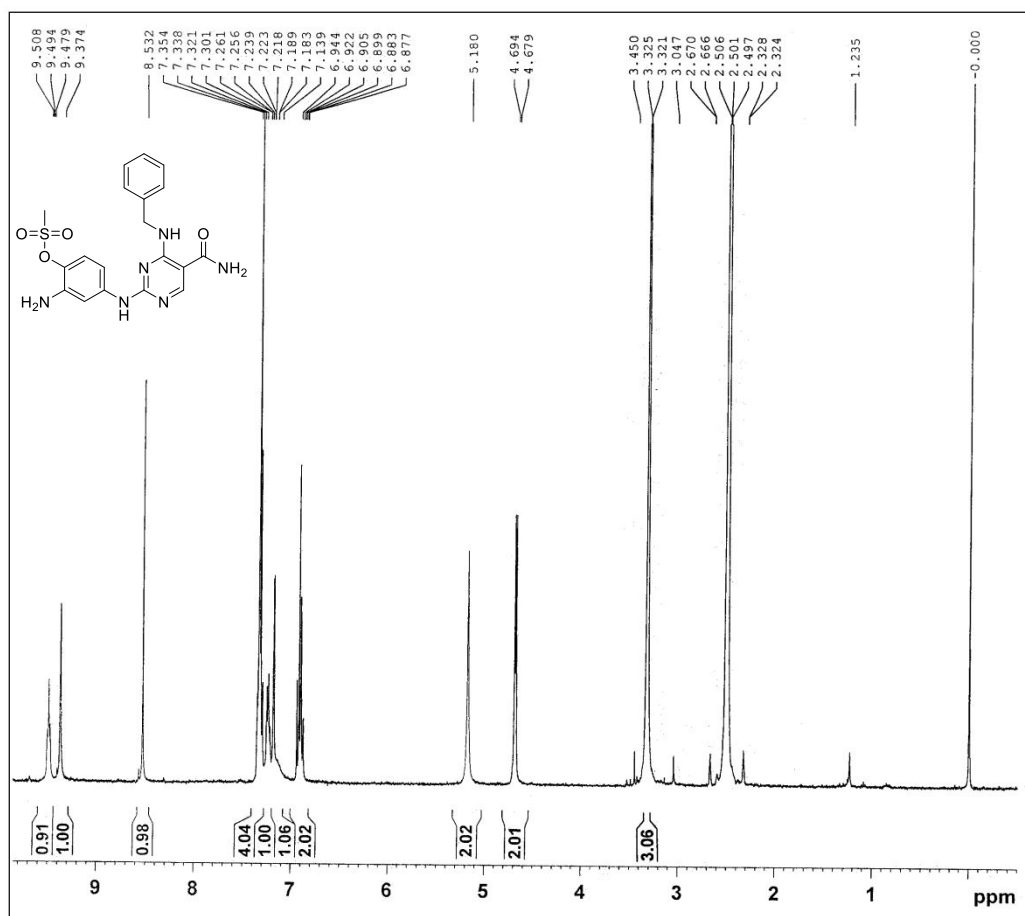
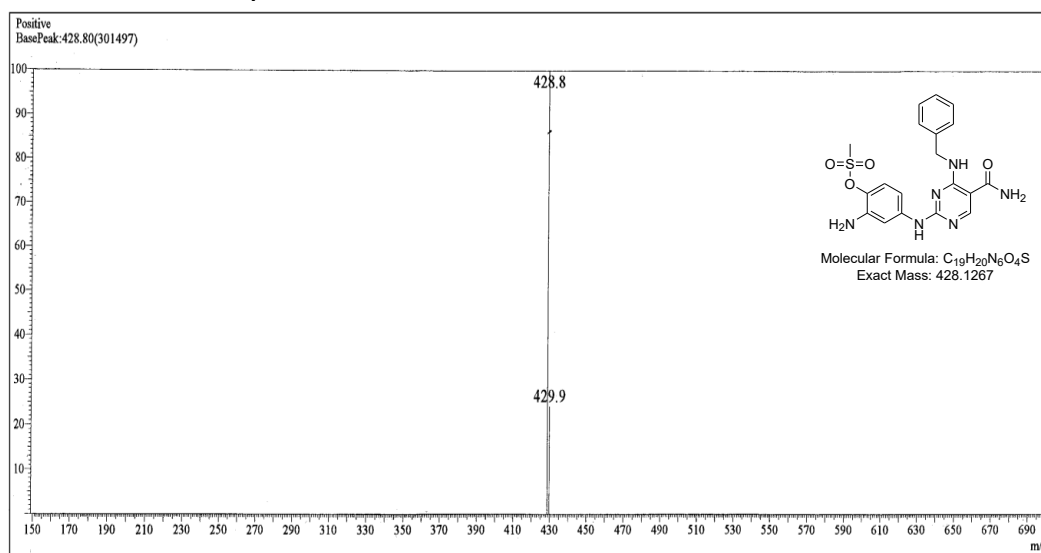
<sup>1</sup>H NMR of compound **41h**ESI-MS of compound **41h**HPLC of compound **41h**

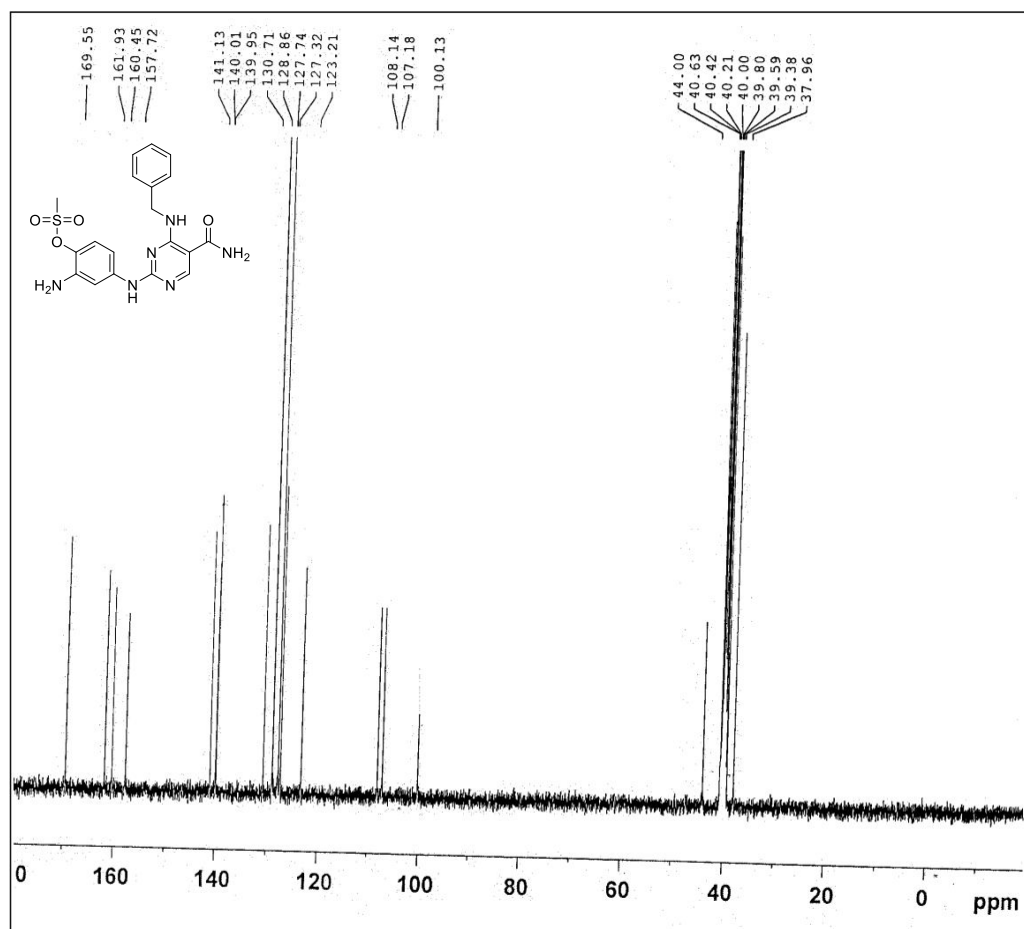
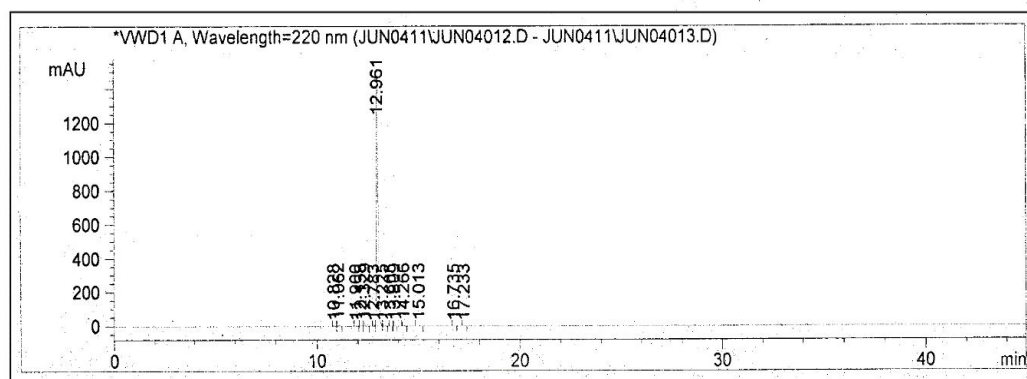
<sup>1</sup>H NMR of compound **41j**ESI-MS of compound **41j**HPLC of compound **41j**

<sup>1</sup>H NMR of compound **41k**ESI-MS of compound **41k**

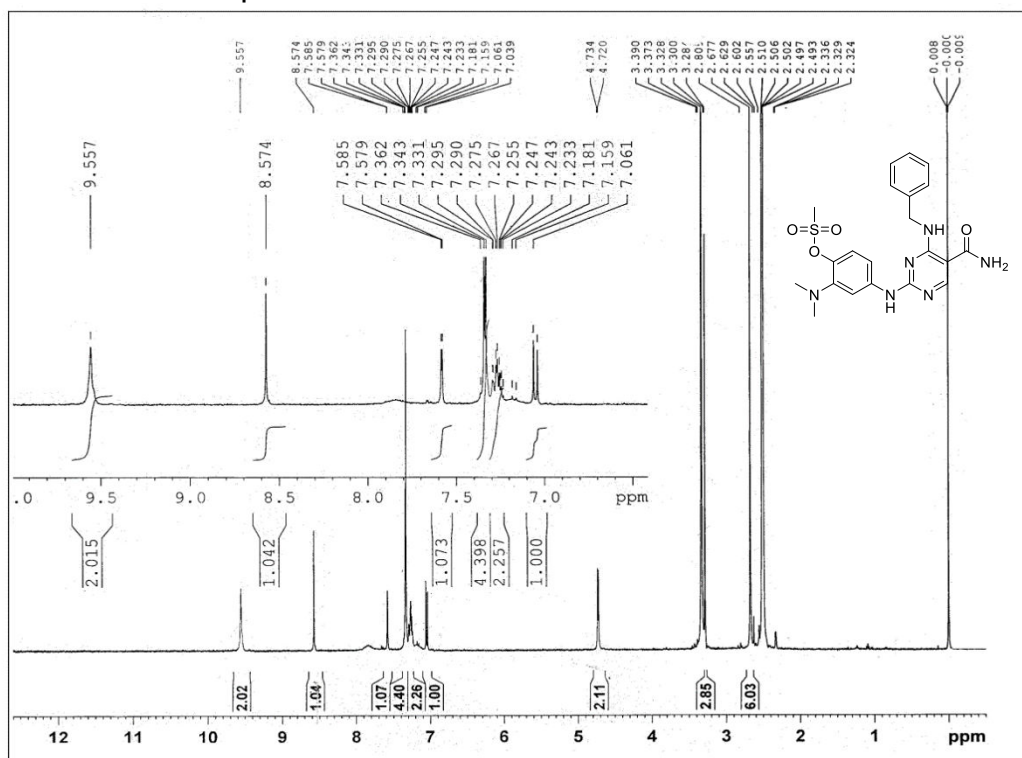
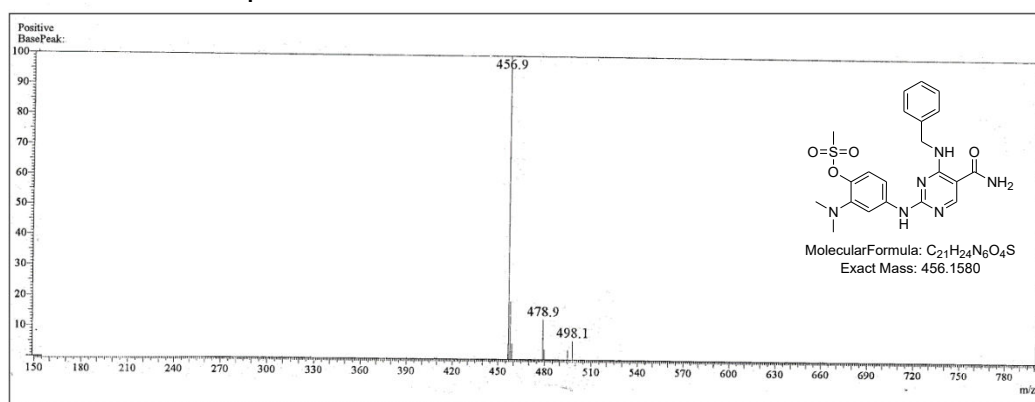
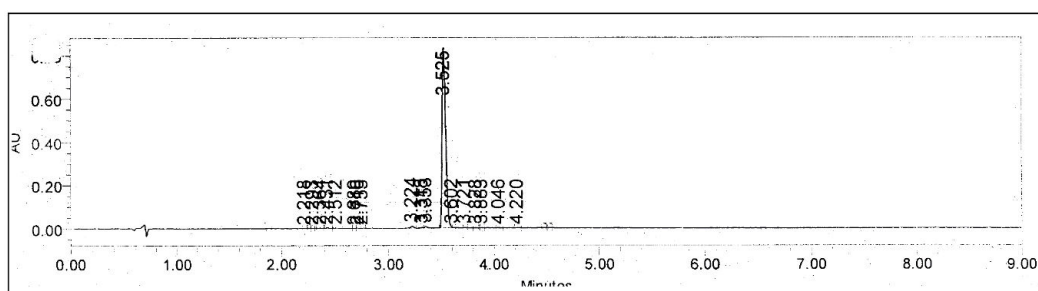
$^{13}\text{C}$  of compound **41k**UPLC of compound **41k**

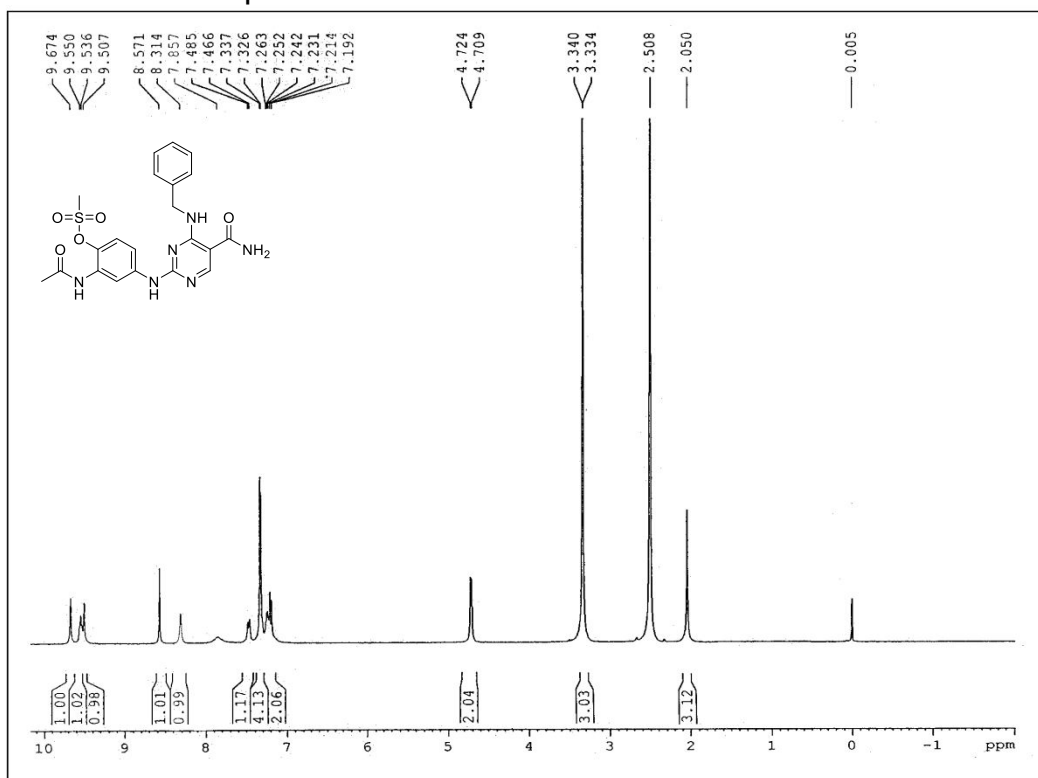
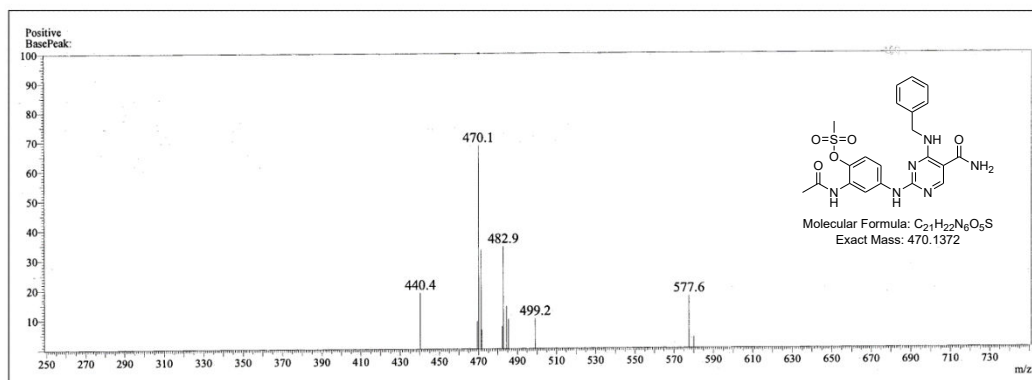
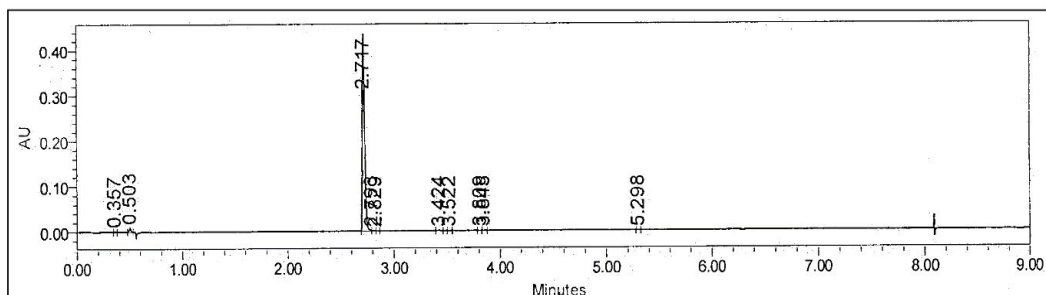
<sup>1</sup>H NMR of compound **41I**ESI-MS of compound **41I**UPLC of compound **41I**

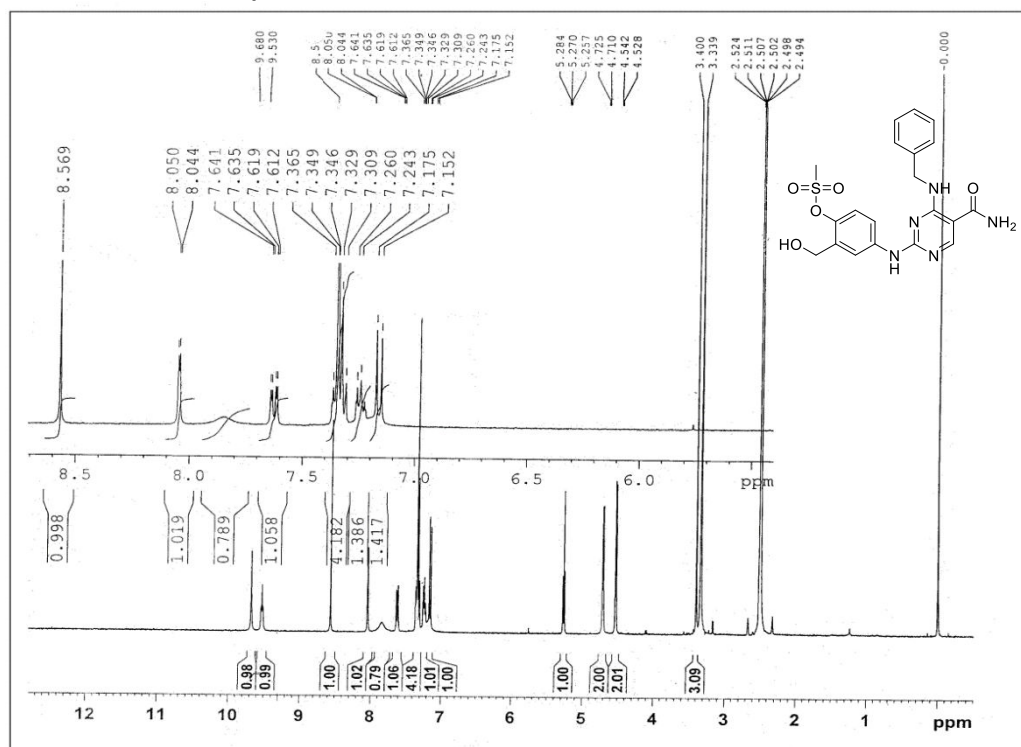
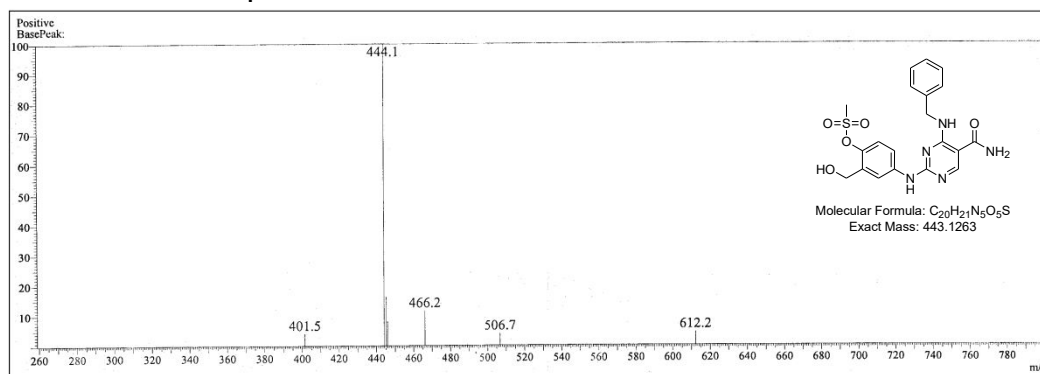
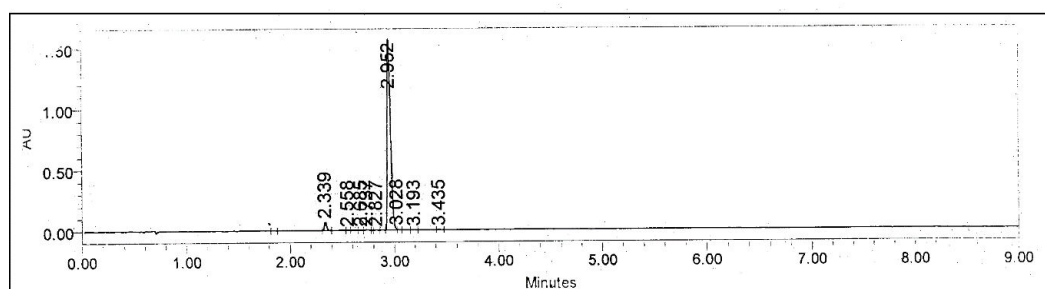
<sup>1</sup>H NMR of compound **41m**ESI-MS of compound **41m**

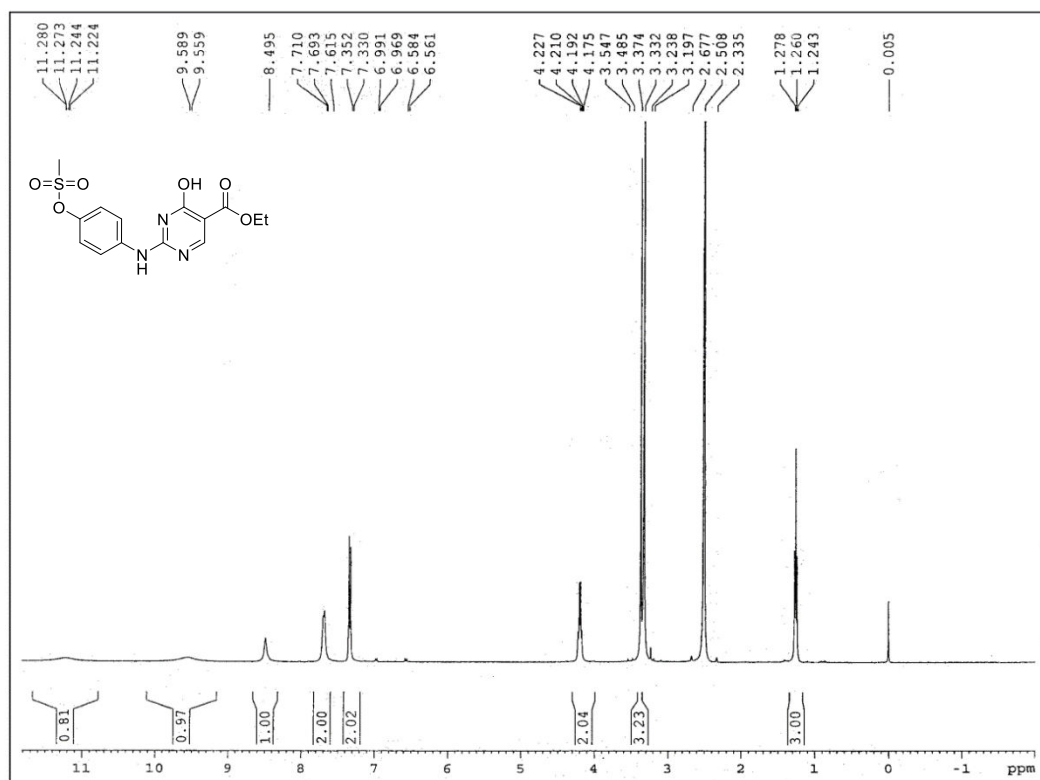
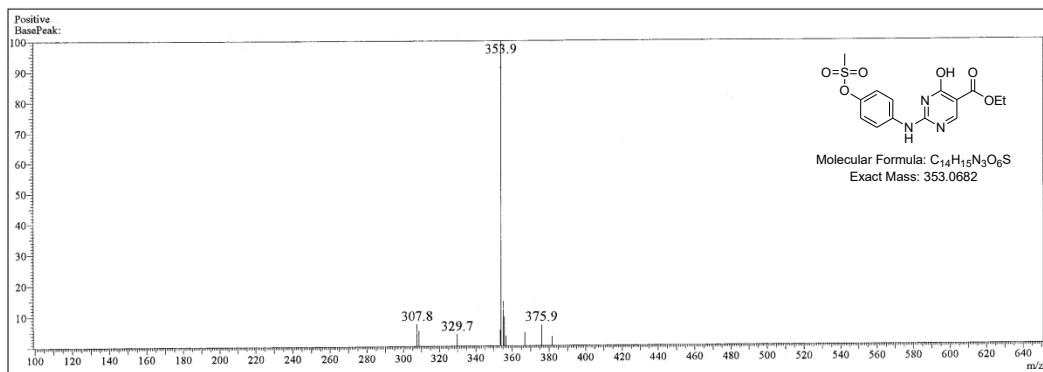
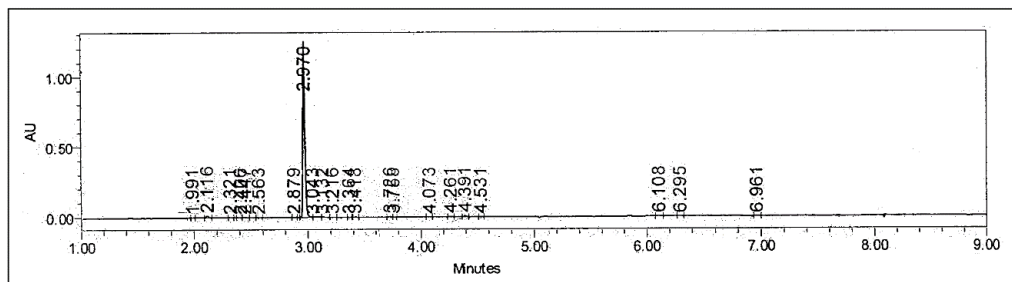
<sup>13</sup>C NMR of compound **41m**HPLC of compound **41m**

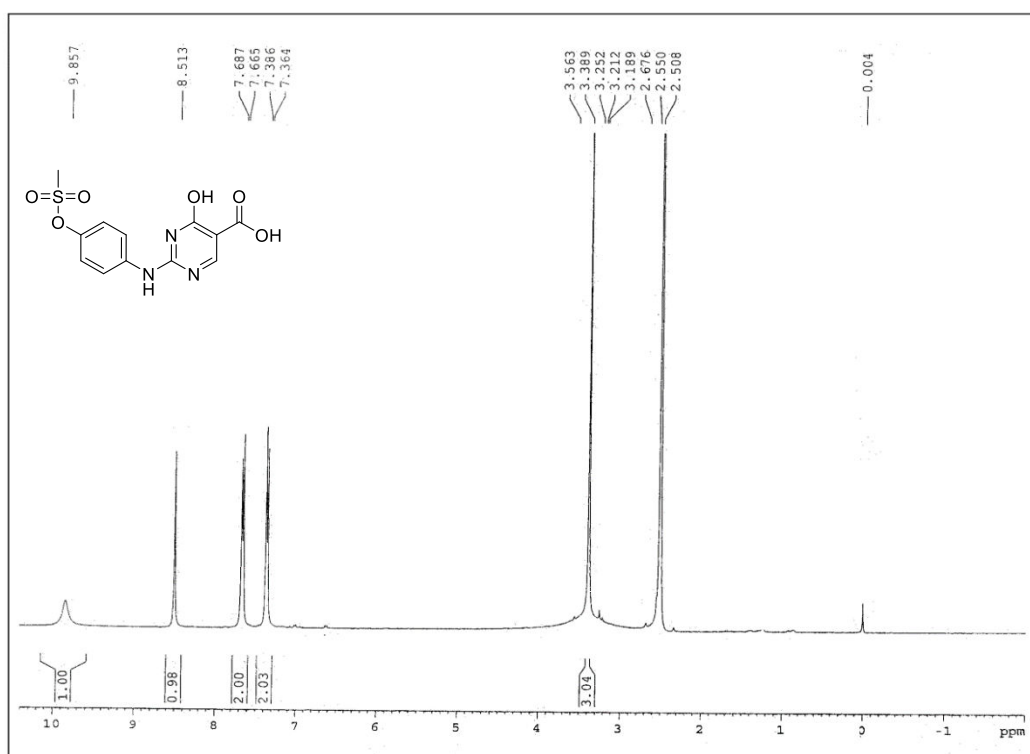
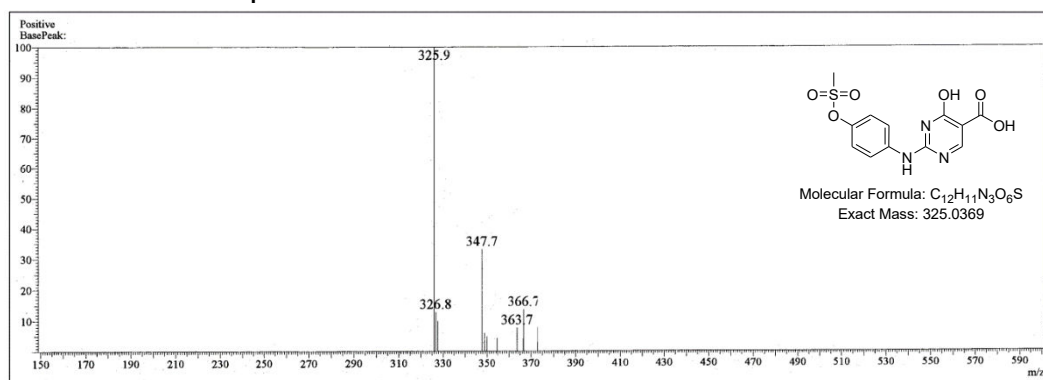
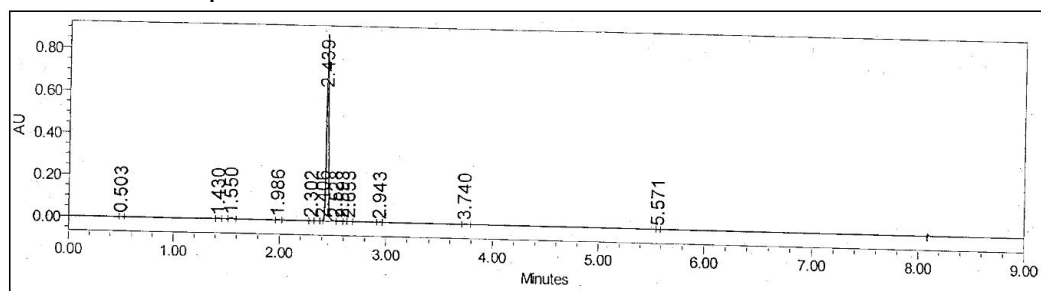


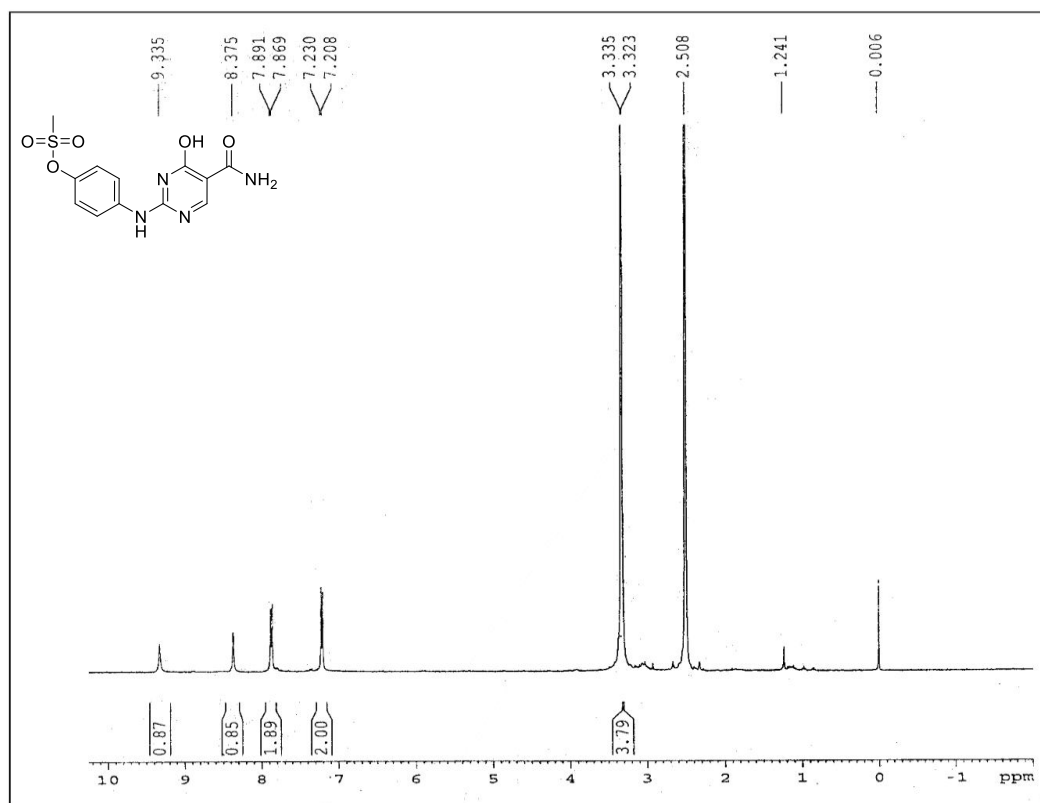
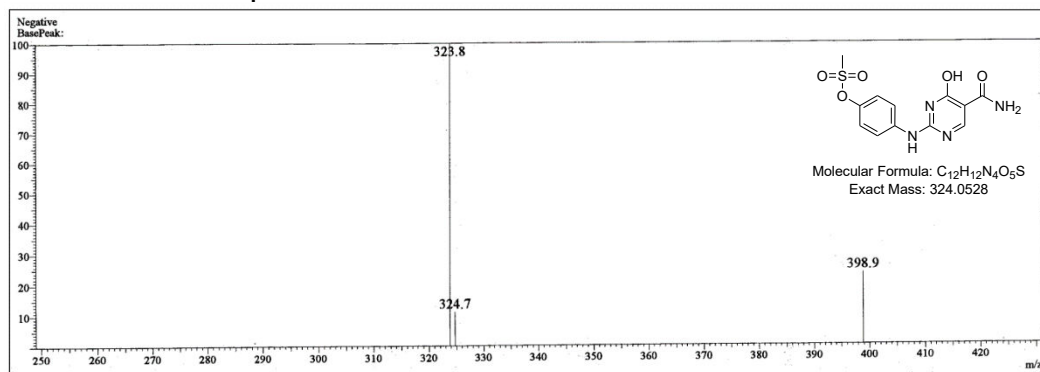
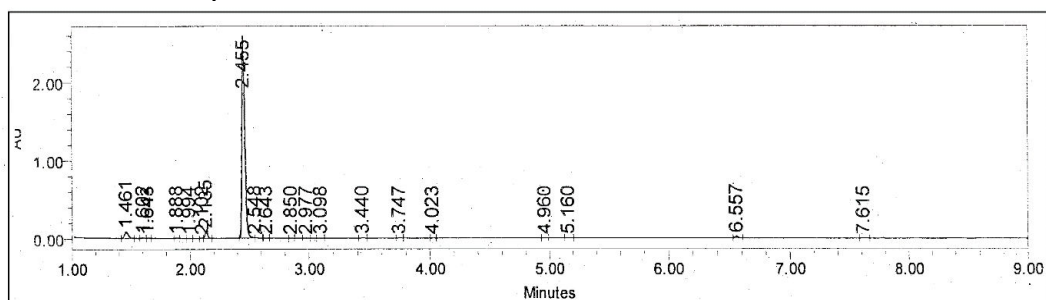
<sup>1</sup>H NMR of compound **41n**ESI-MS of compound **41n**UPLC of compound **41n**

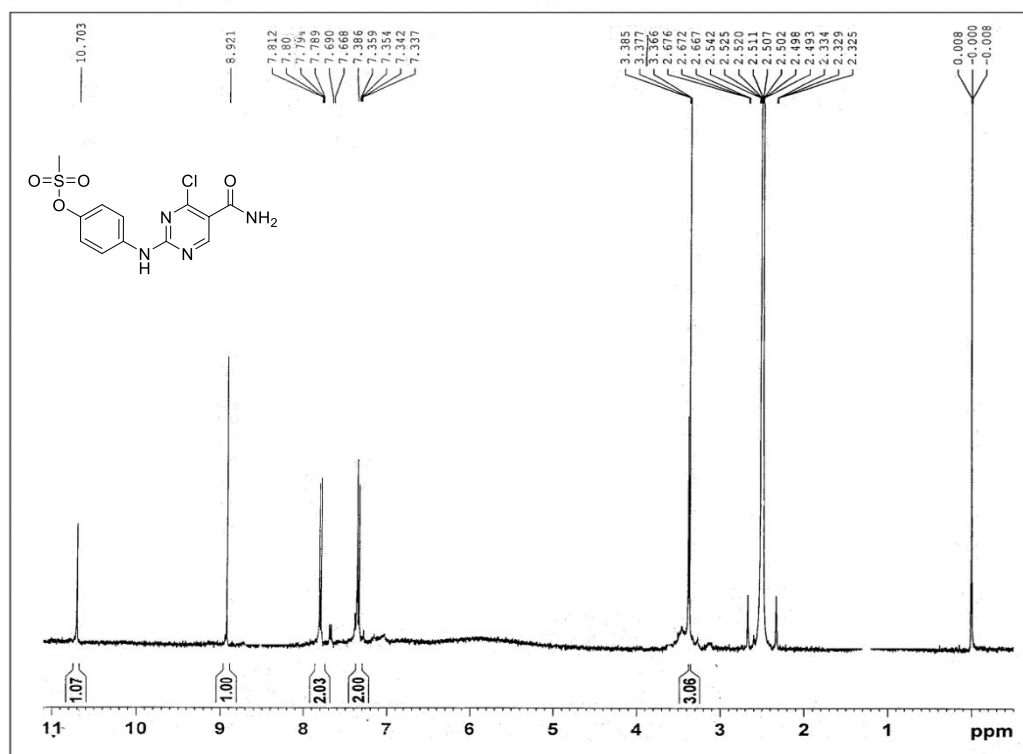
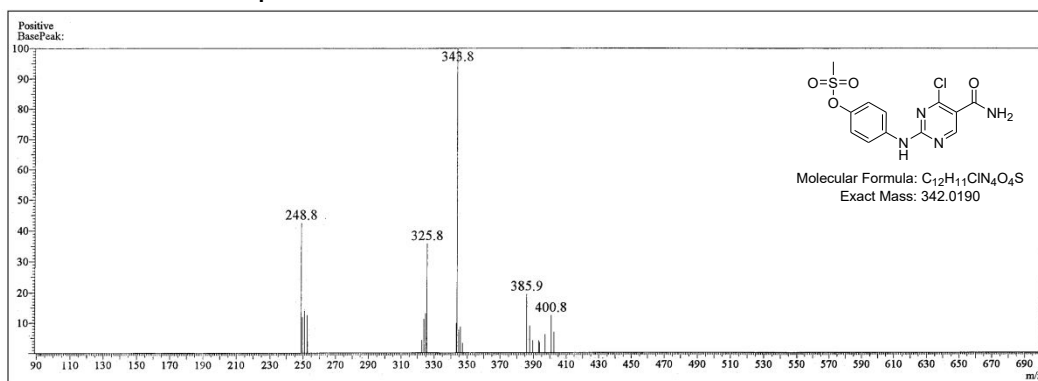
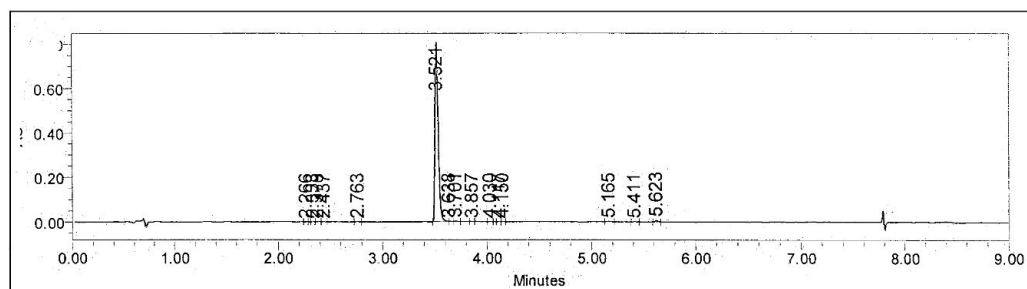
<sup>1</sup>H NMR of compound **41o**ESI-MS of compound **41o**UPLC of compound **41o**

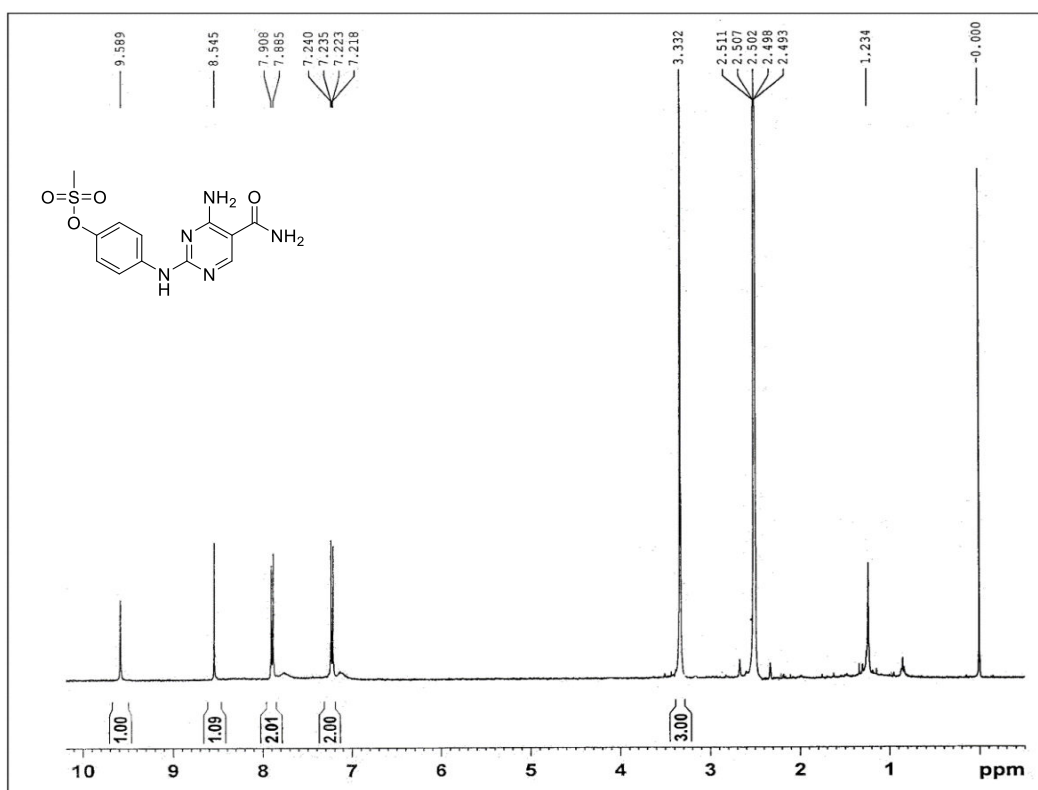
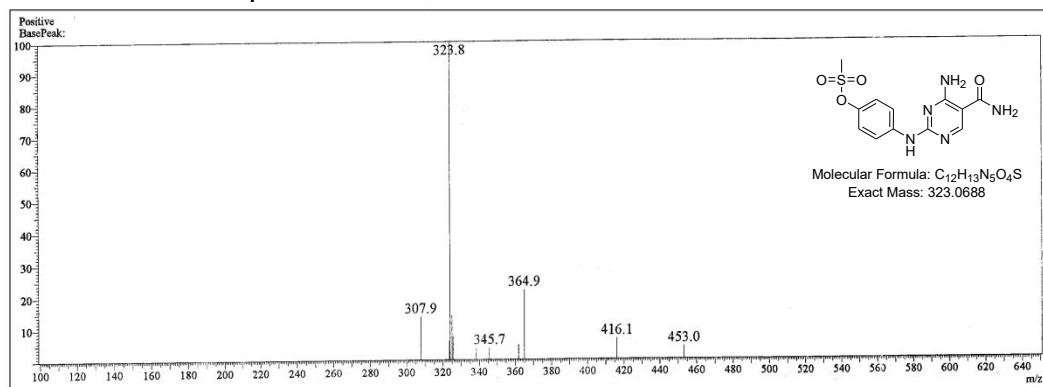
<sup>1</sup>H NMR of compound **41r**ESI-MS of compound **41r**UPLC of compound **41r**

<sup>1</sup>H NMR of compound **44**ESI-MS of compound **44**UPLC of compound **44**

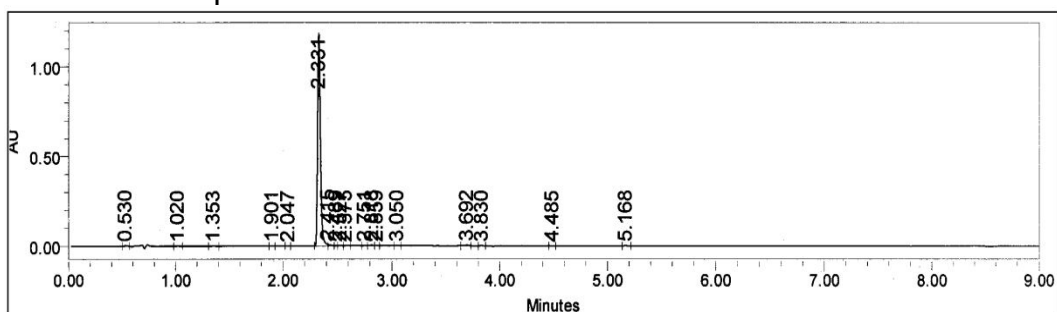
<sup>1</sup>H NMR of compound **45**ESI-MS of compound **45**UPLC of compound **45**

<sup>1</sup>H NMR of compound **46**ESI-MS of compound **46**UPLC of compound **46**

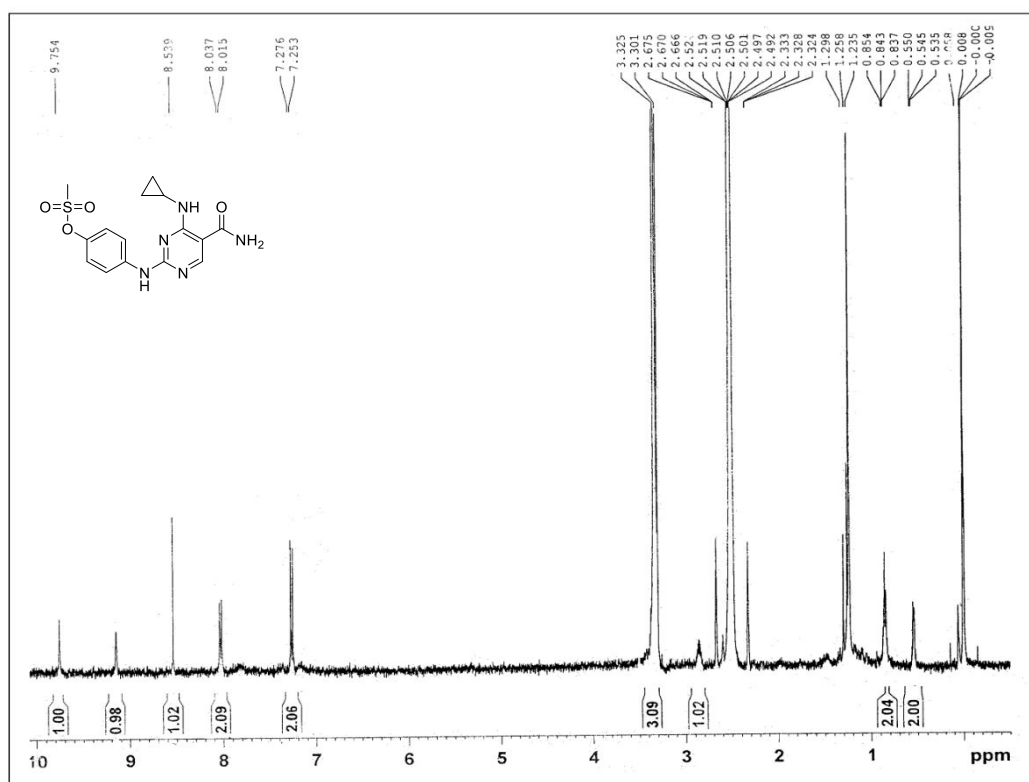
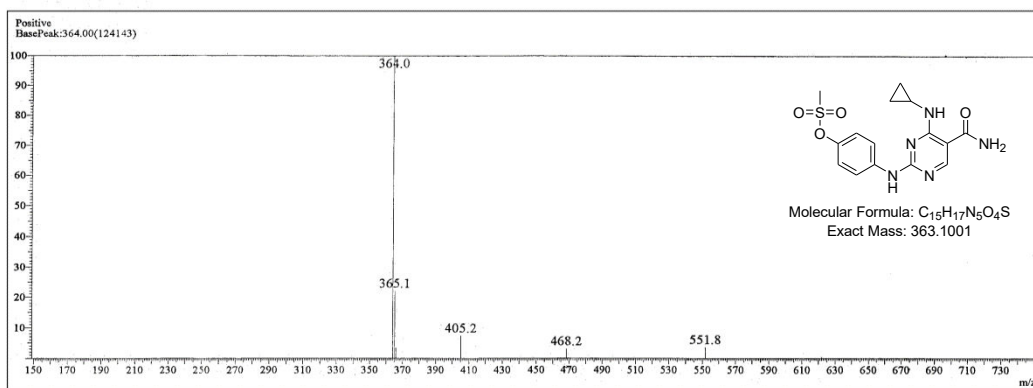
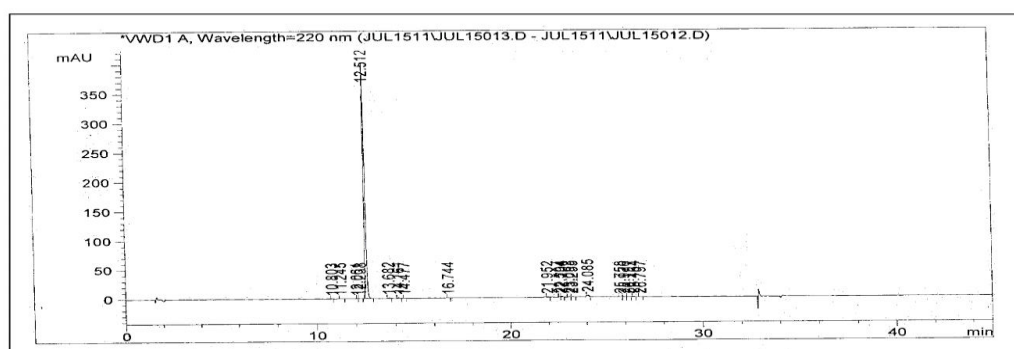
<sup>1</sup>H NMR of compound **47**ESI-MS of compound **47**UPLC of compound **47**

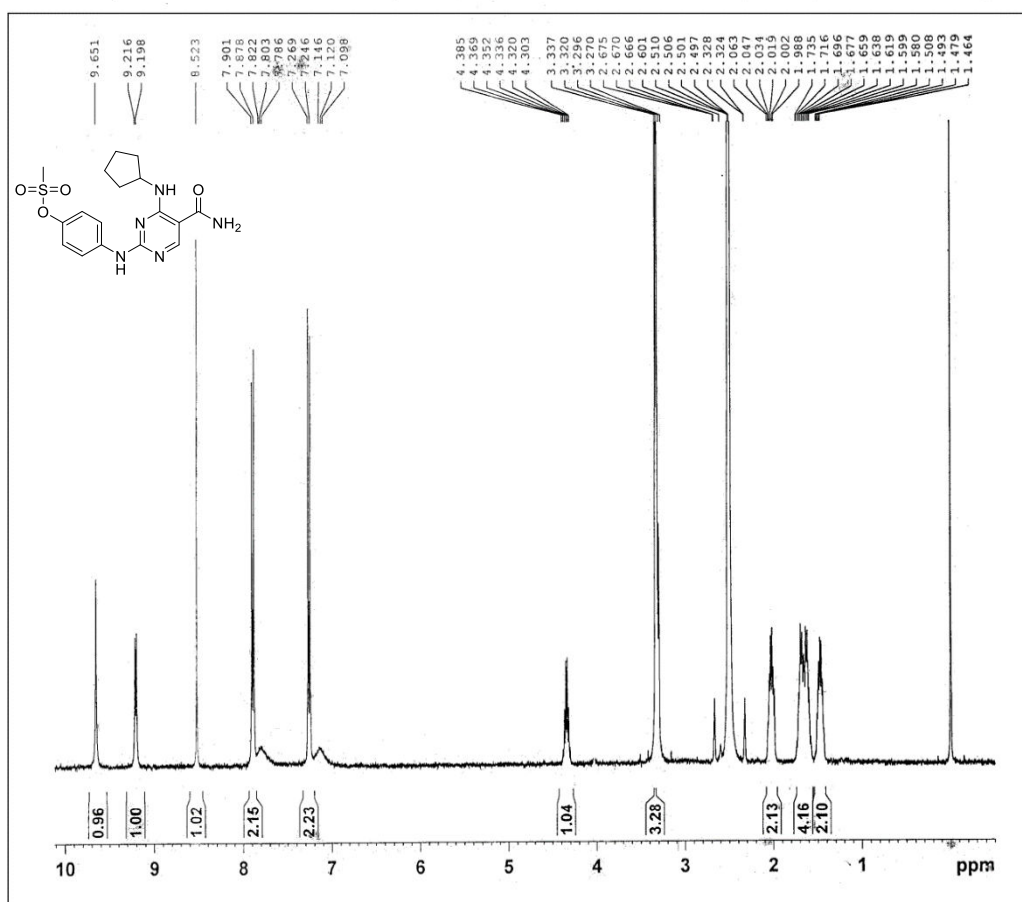
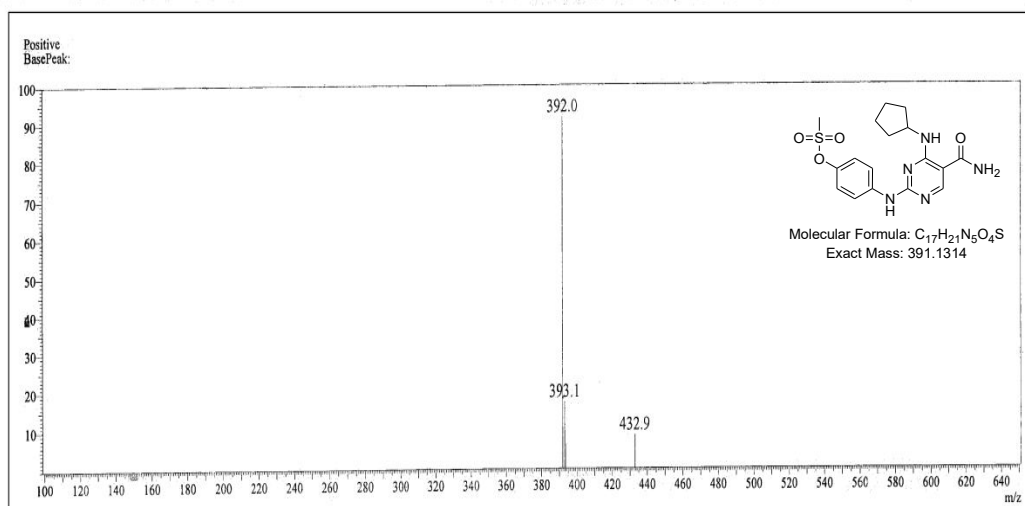
<sup>1</sup>H NMR of compound **48a**ESI-MS of compound **48a**

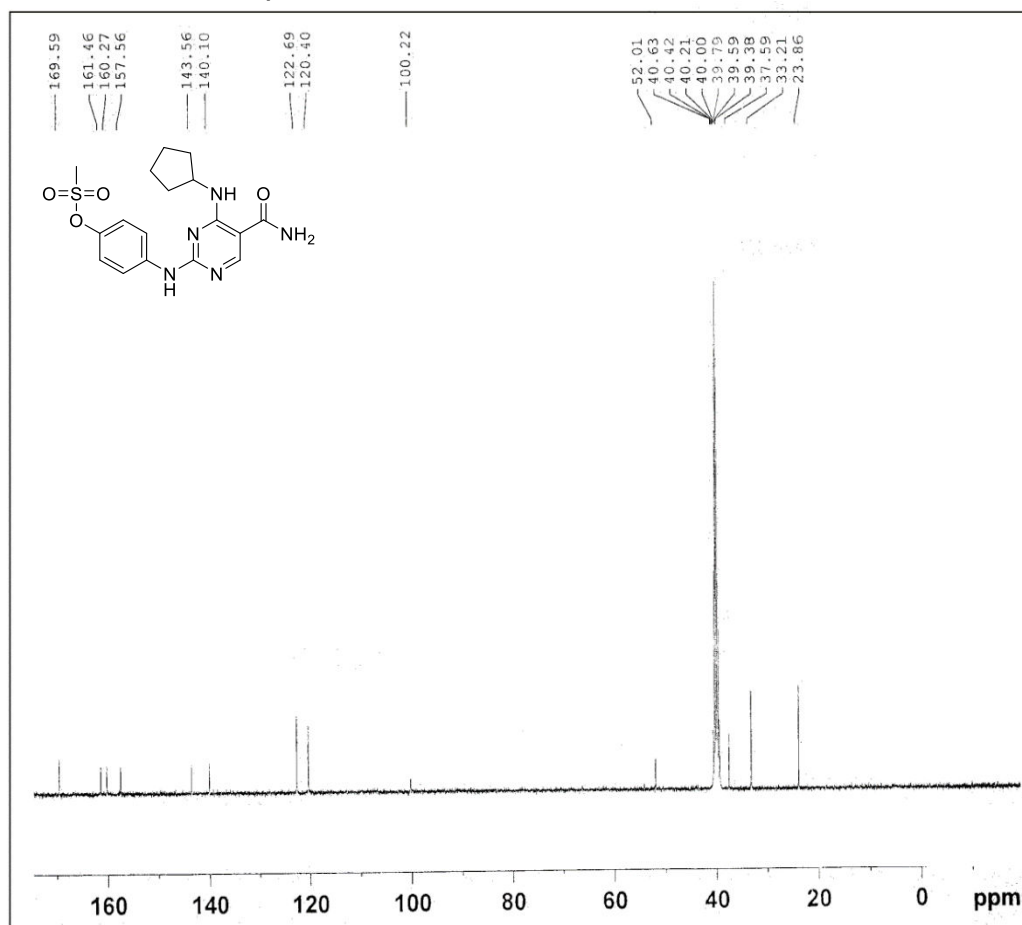
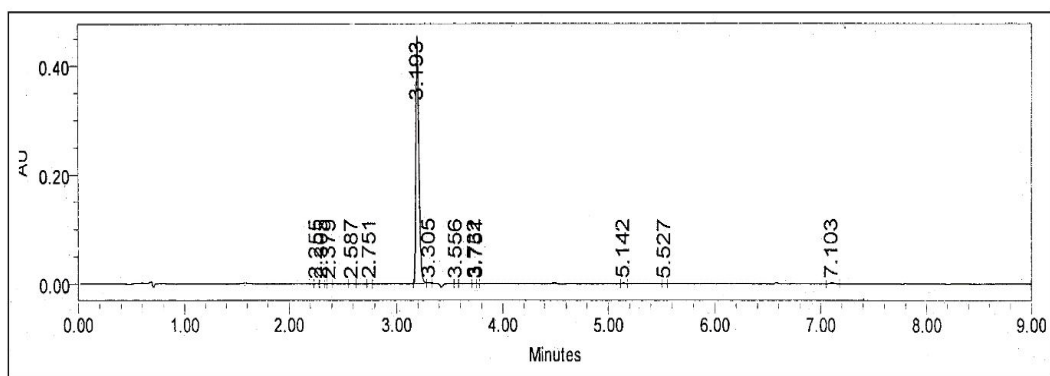
### UPLC of compound **48a**

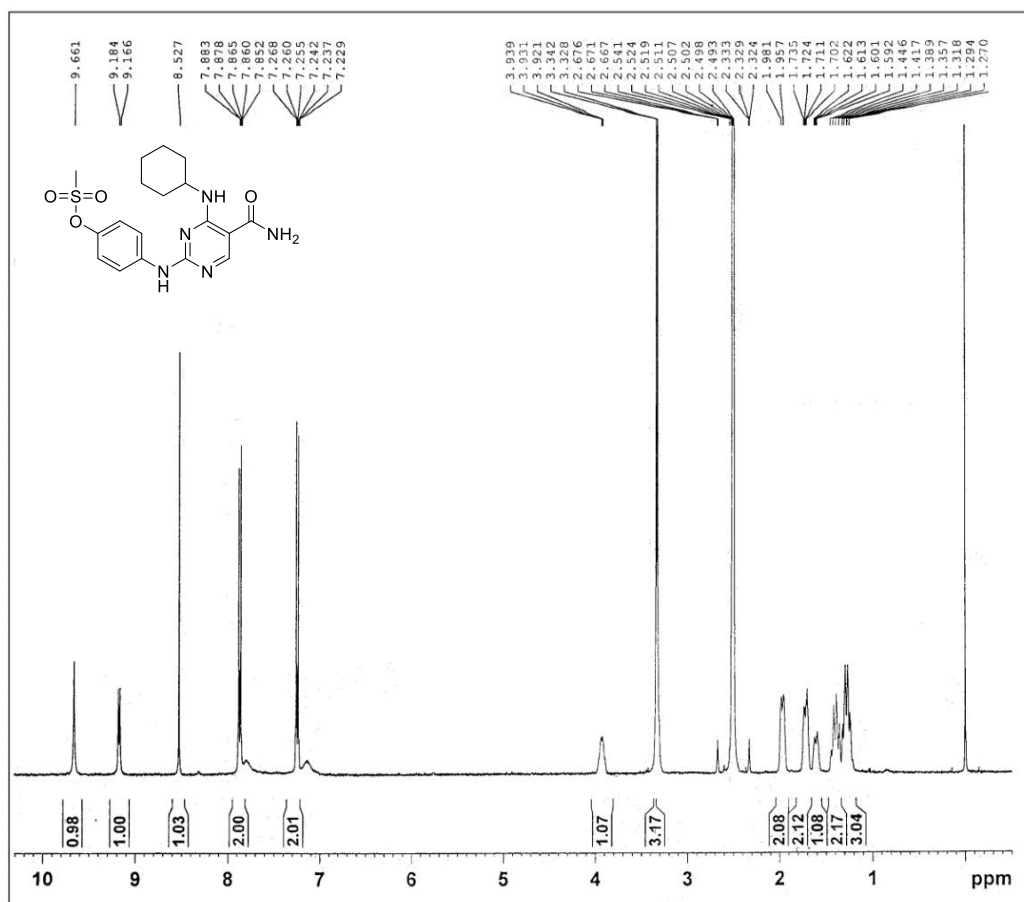
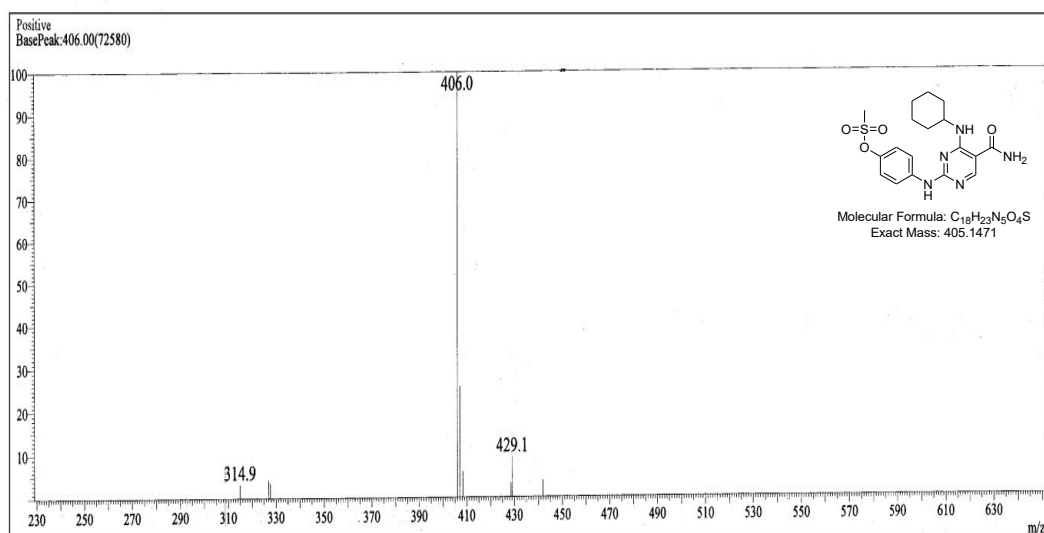


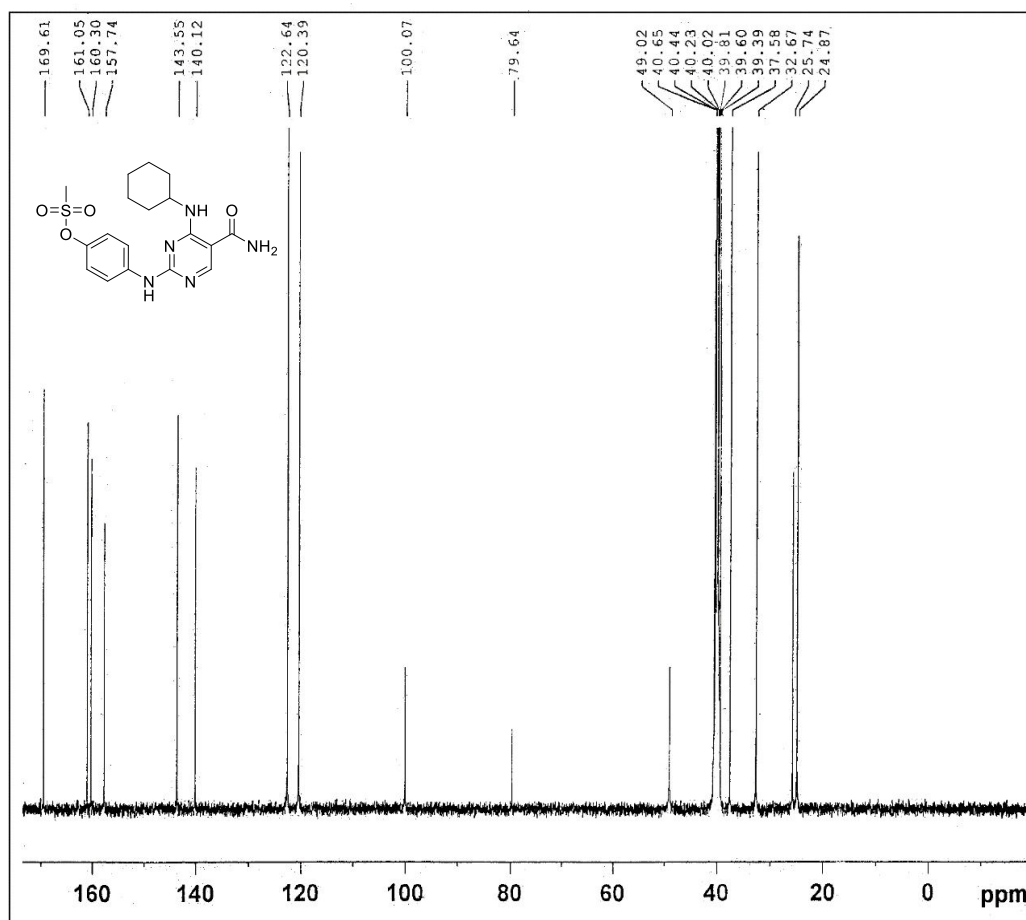
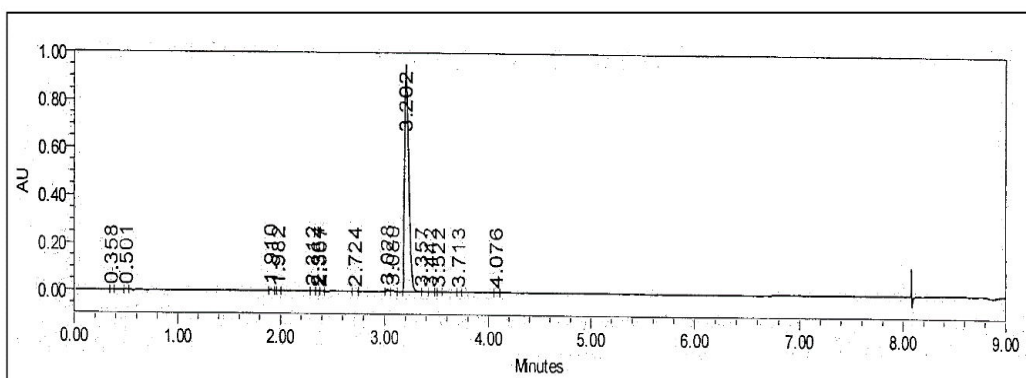


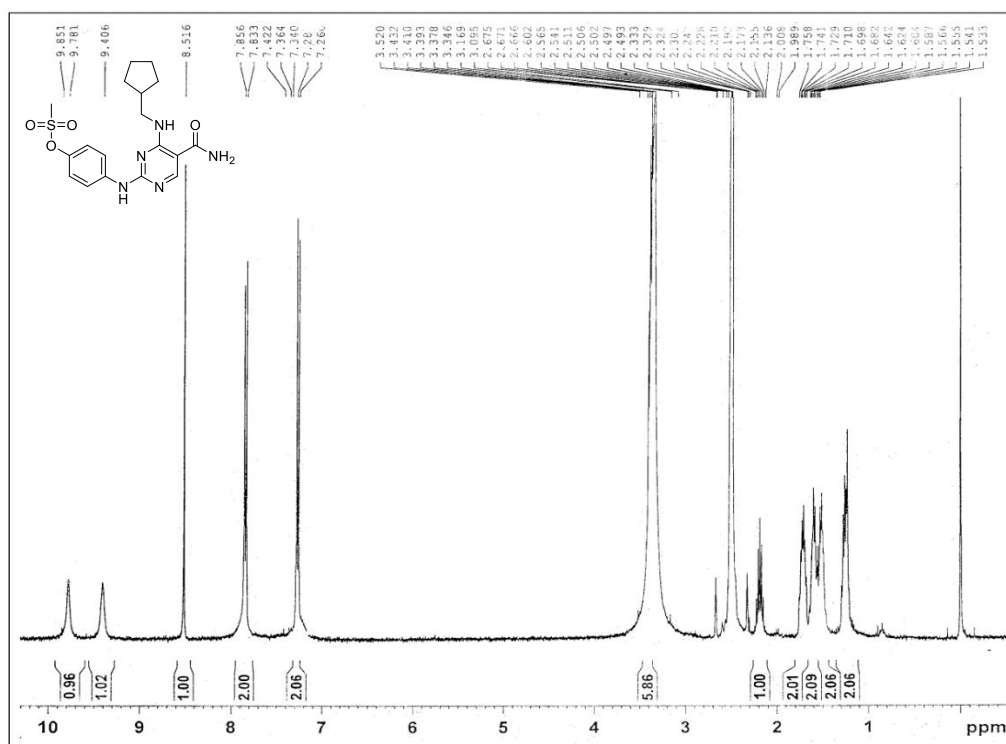
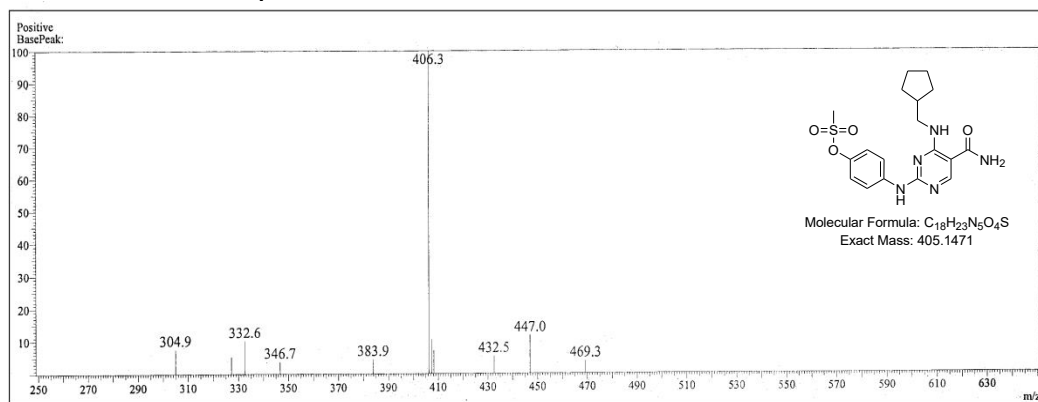
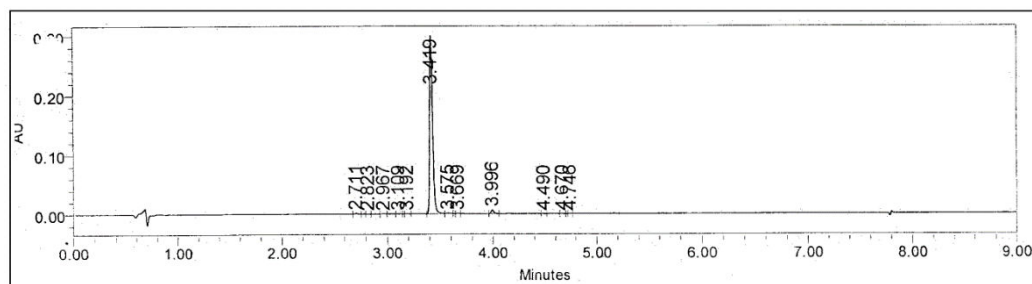
<sup>1</sup>H NMR of compound **48b**ESI-MS of compound **48b**HPLC of compound **48b**

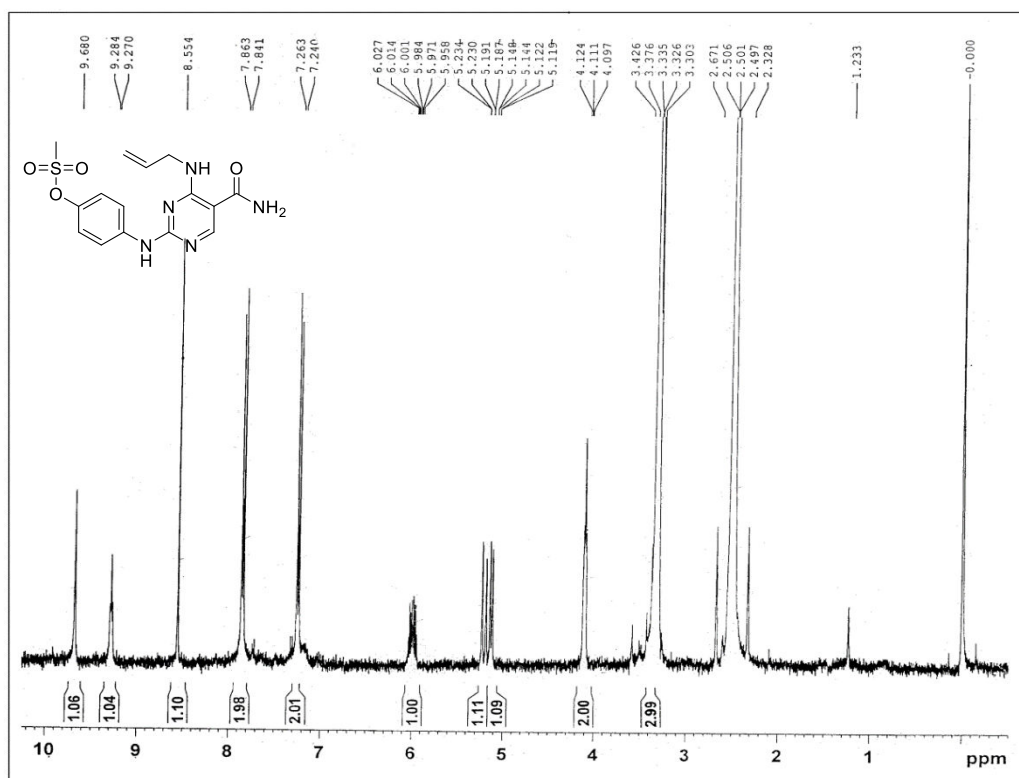
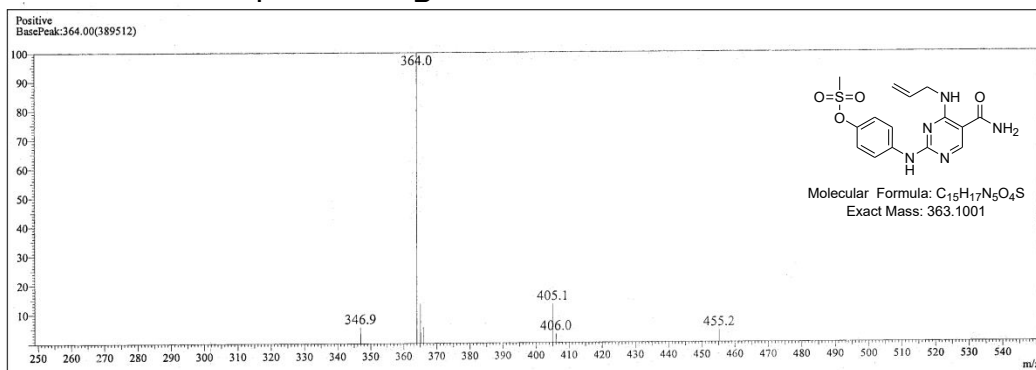
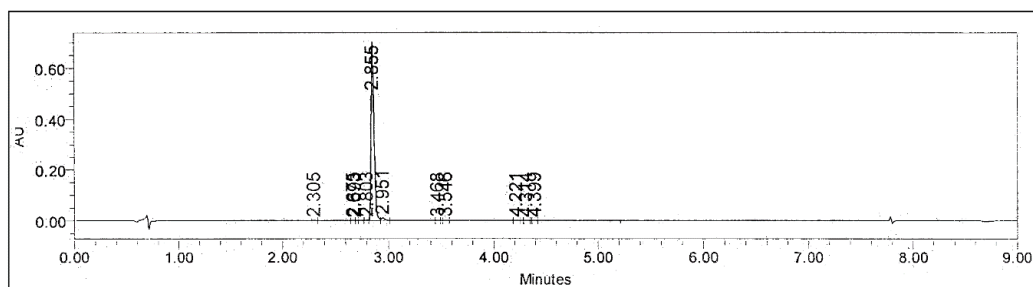
<sup>1</sup>H NMR of compound **48d**ESI-MS of compound **48d**

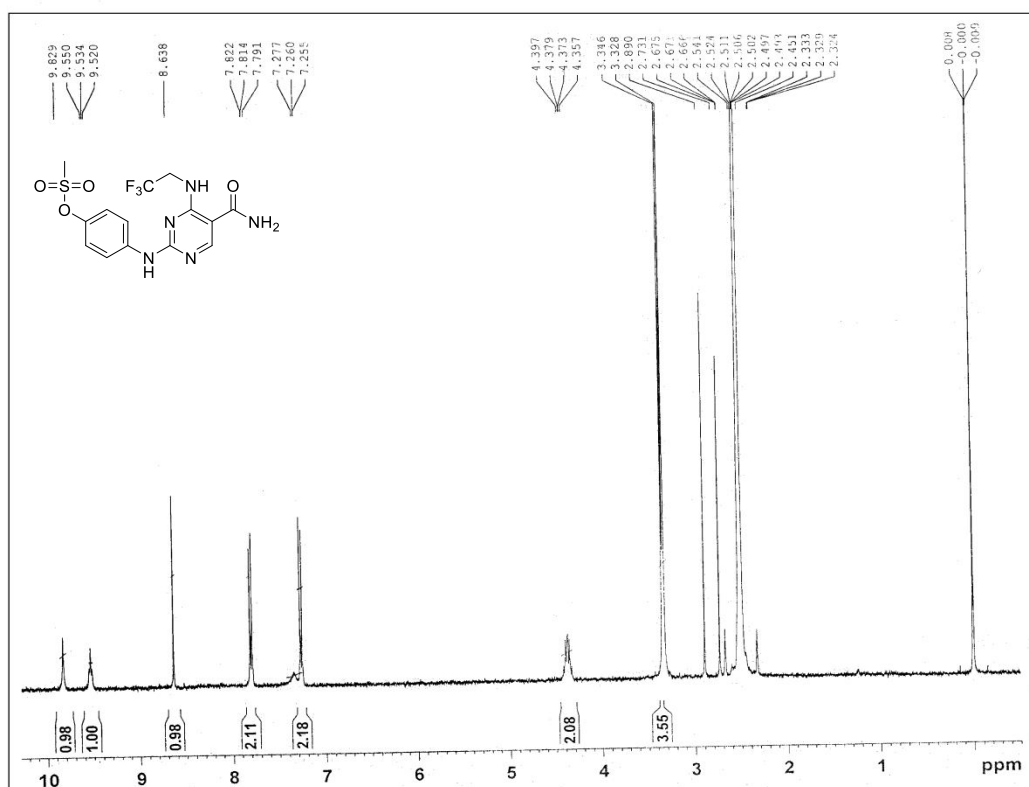
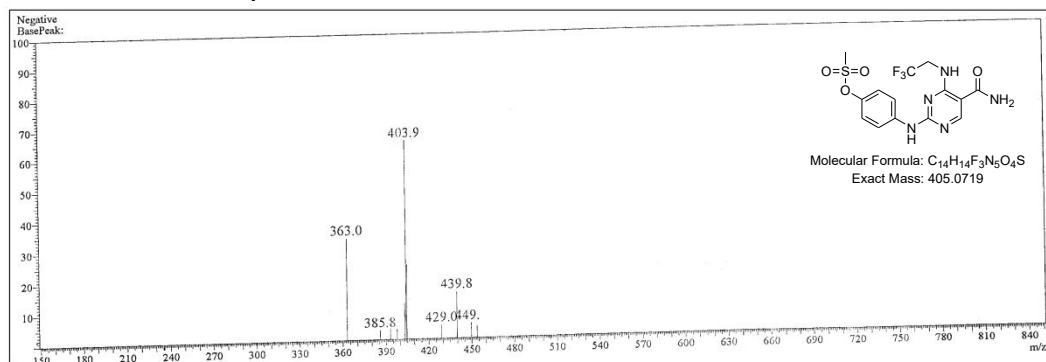
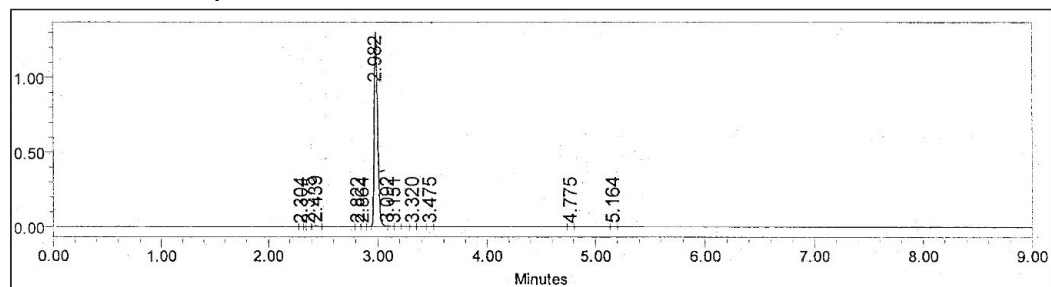
<sup>13</sup>C NMR of compound **48d**UPLC of compound **48d**

<sup>1</sup>H NMR of compound **48e**ESI-MS of compound **48e**

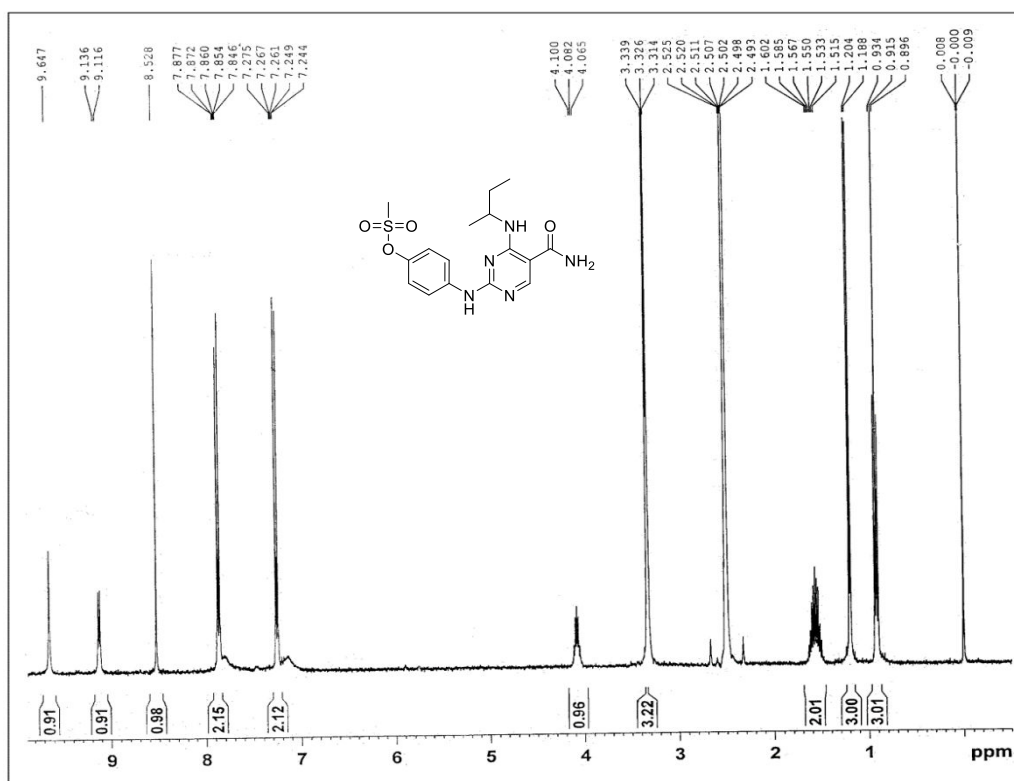
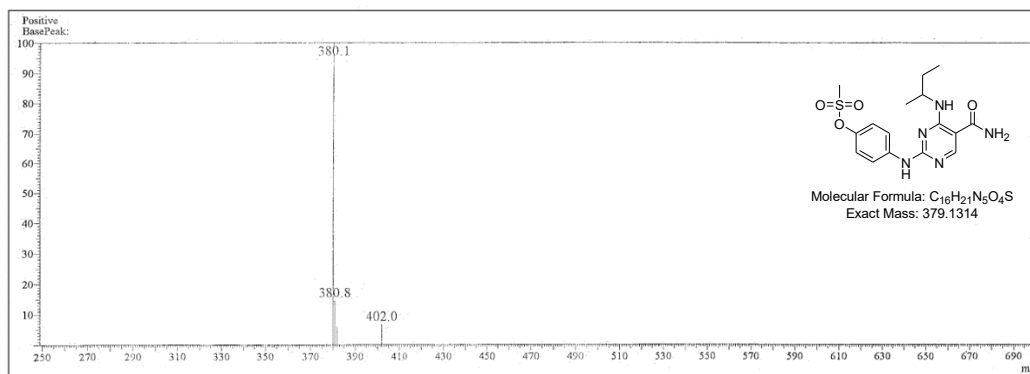
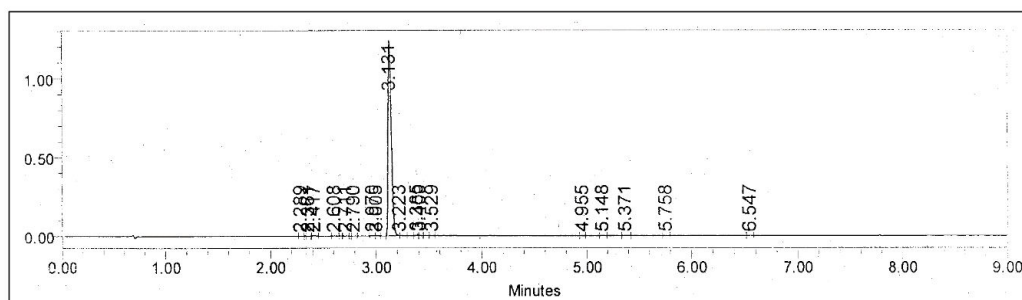
<sup>13</sup>C NMR of compound **48e**UPLC of compound **48e**

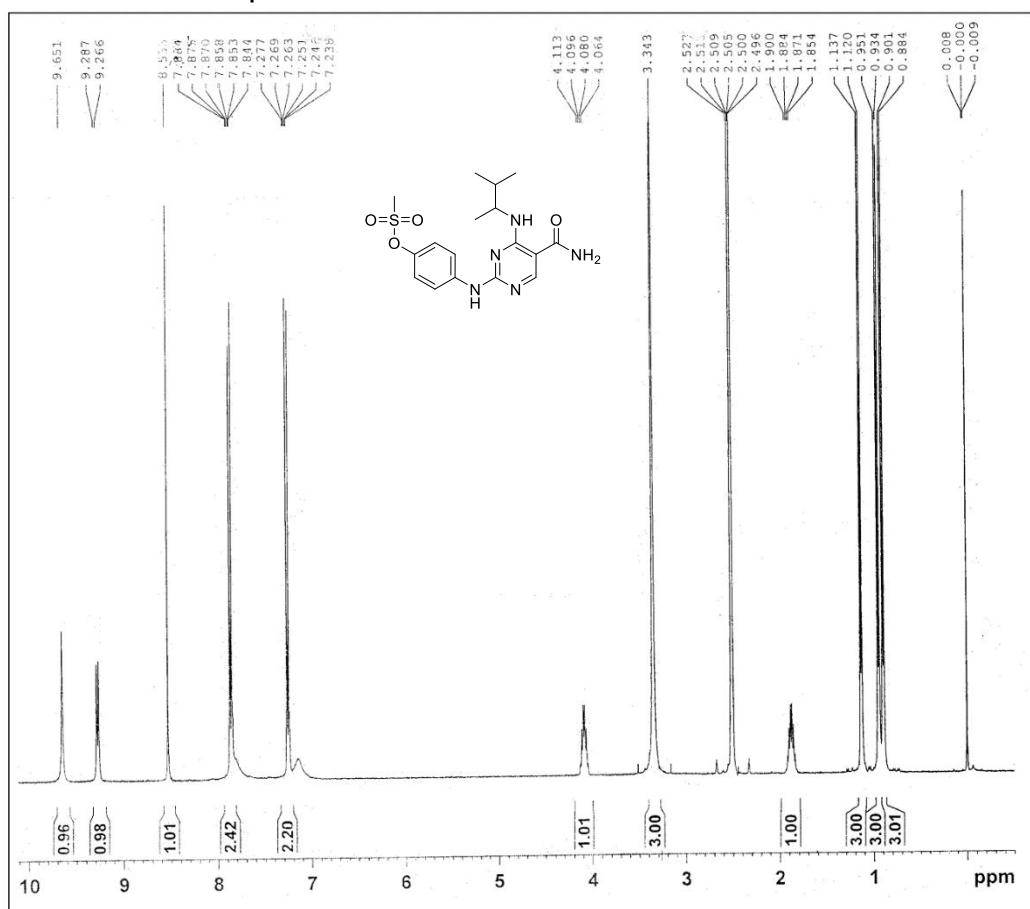
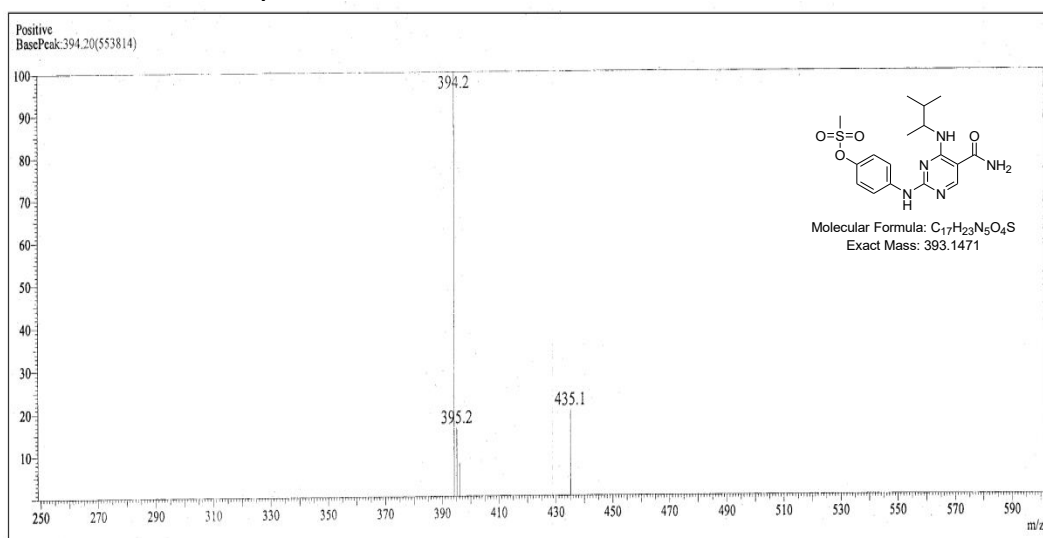
<sup>1</sup>H NMR of compound **48f**ESI-MS of compound **48f**UPLC of compound **48f**

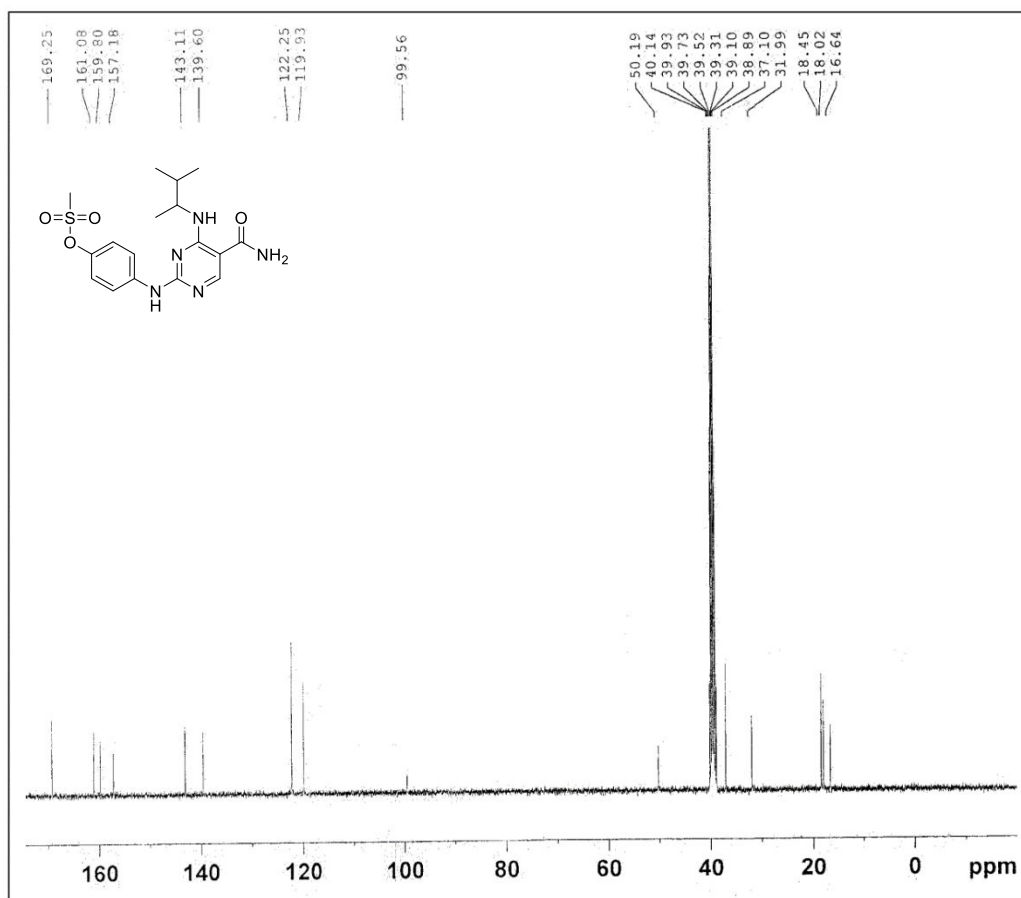
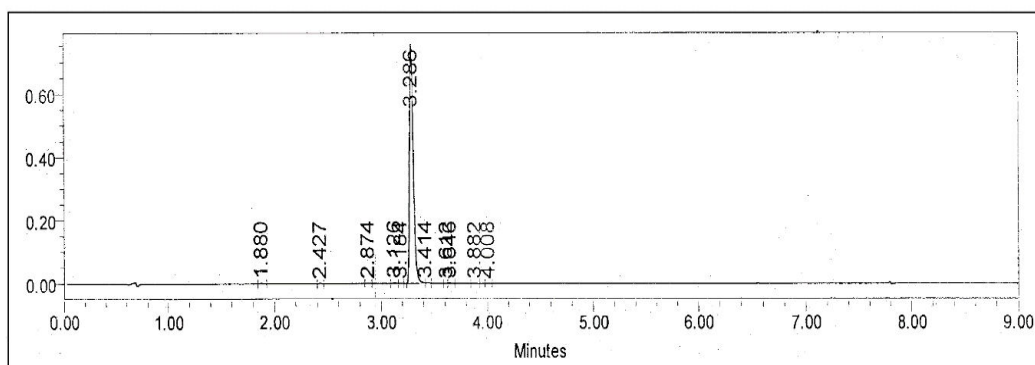
<sup>1</sup>H NMR of compound **48g**ESI-MS of compound **48g**UPLC of compound **48g**

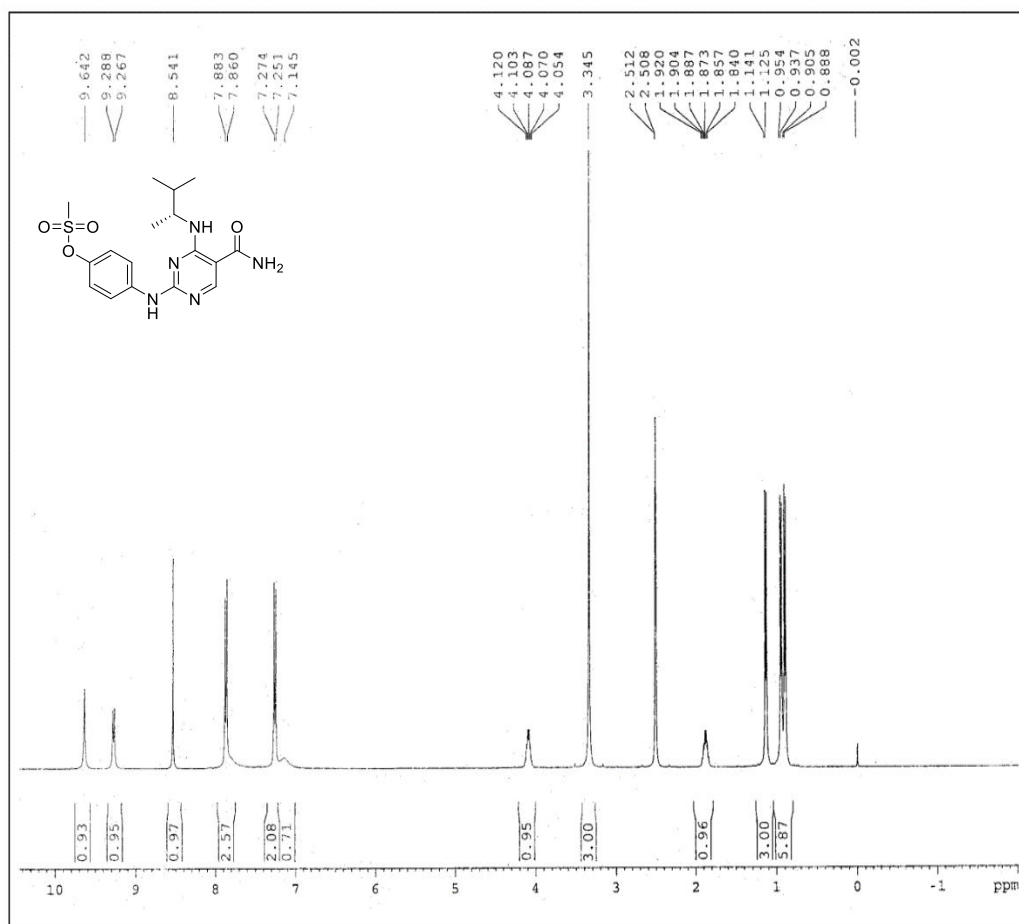
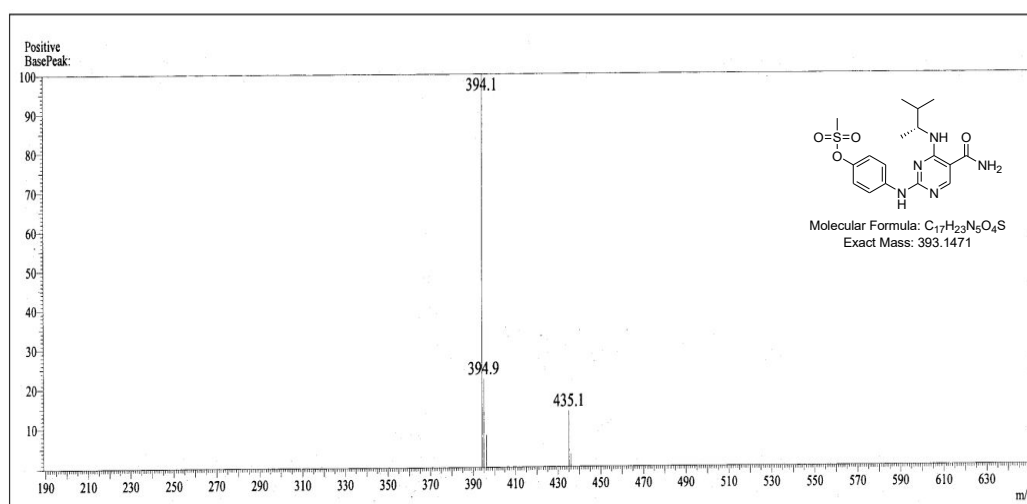
<sup>1</sup>H NMR of compound **48h**ESI-MS of compound **48h**UPLC of compound **48h**

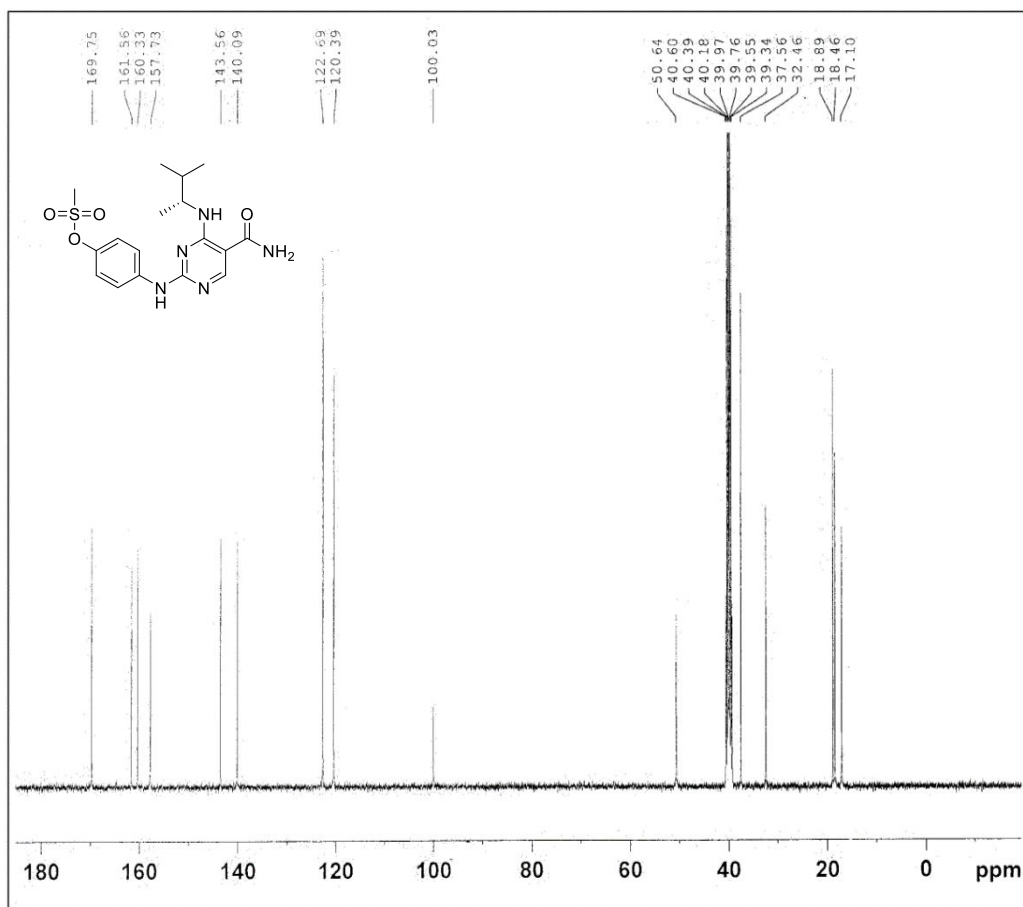
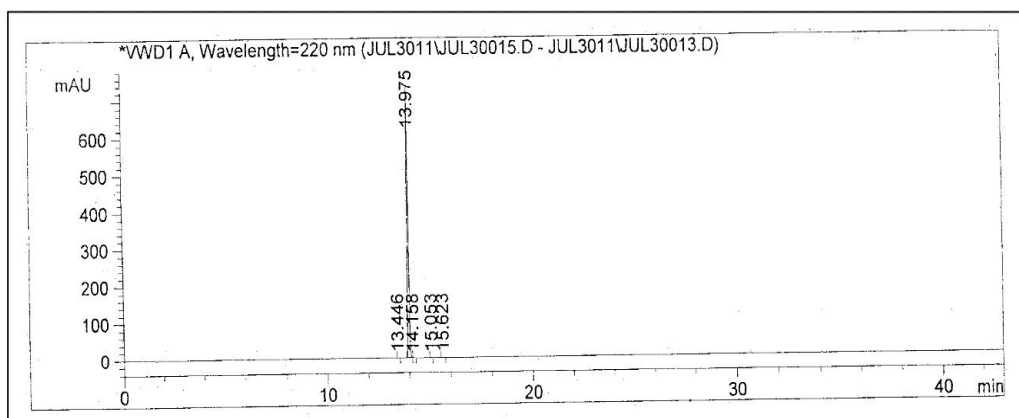


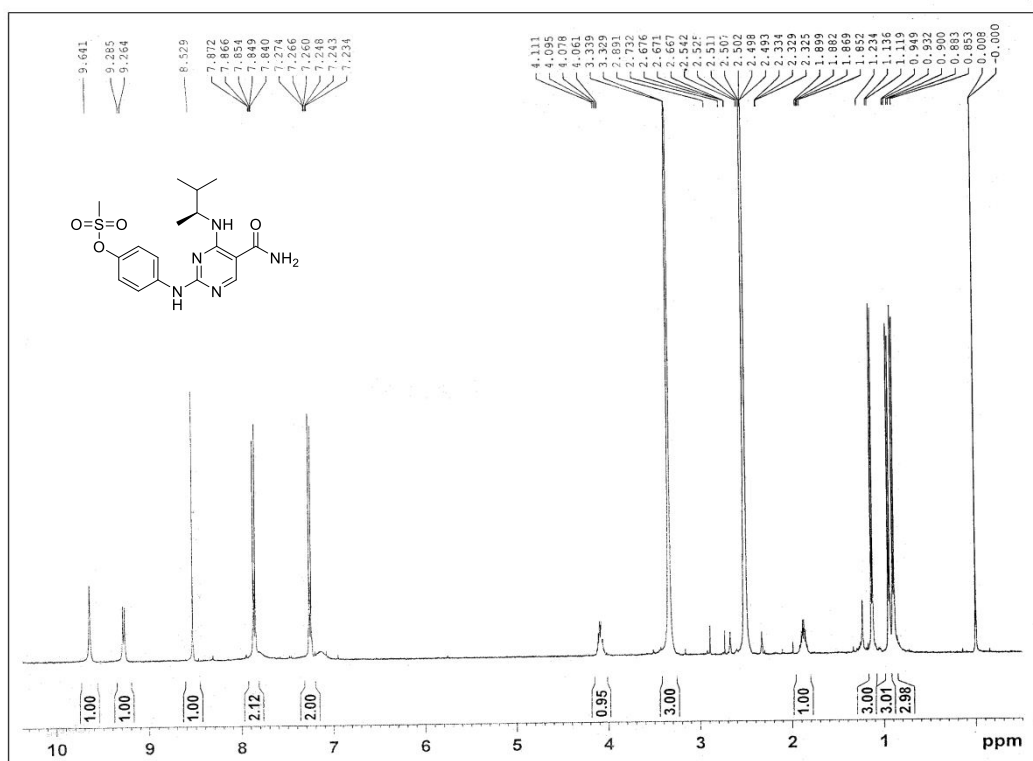
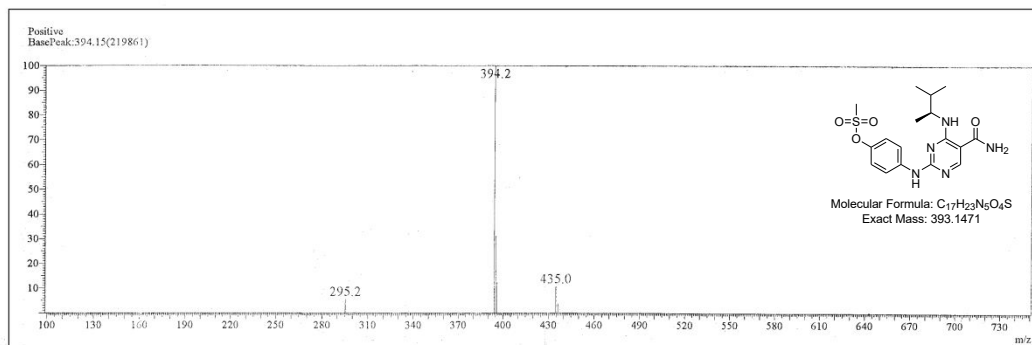
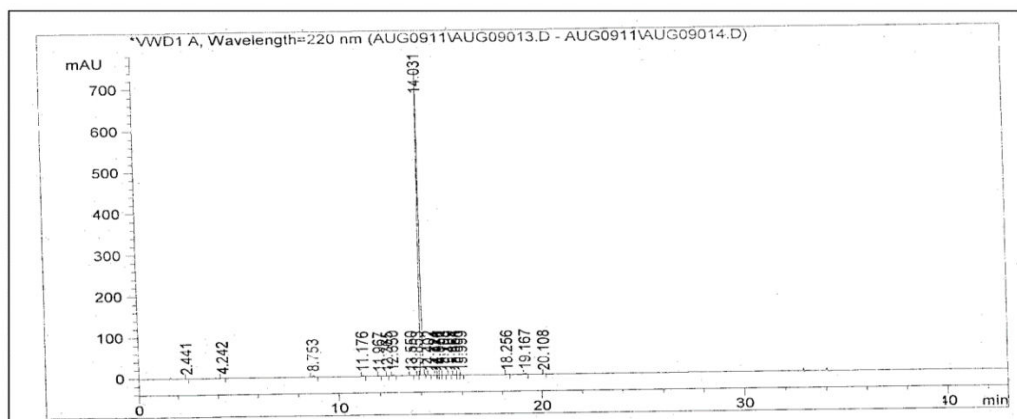
<sup>1</sup>H NMR of compound **48j**ESI-MS of compound **48j**UPLC of compound **48j**

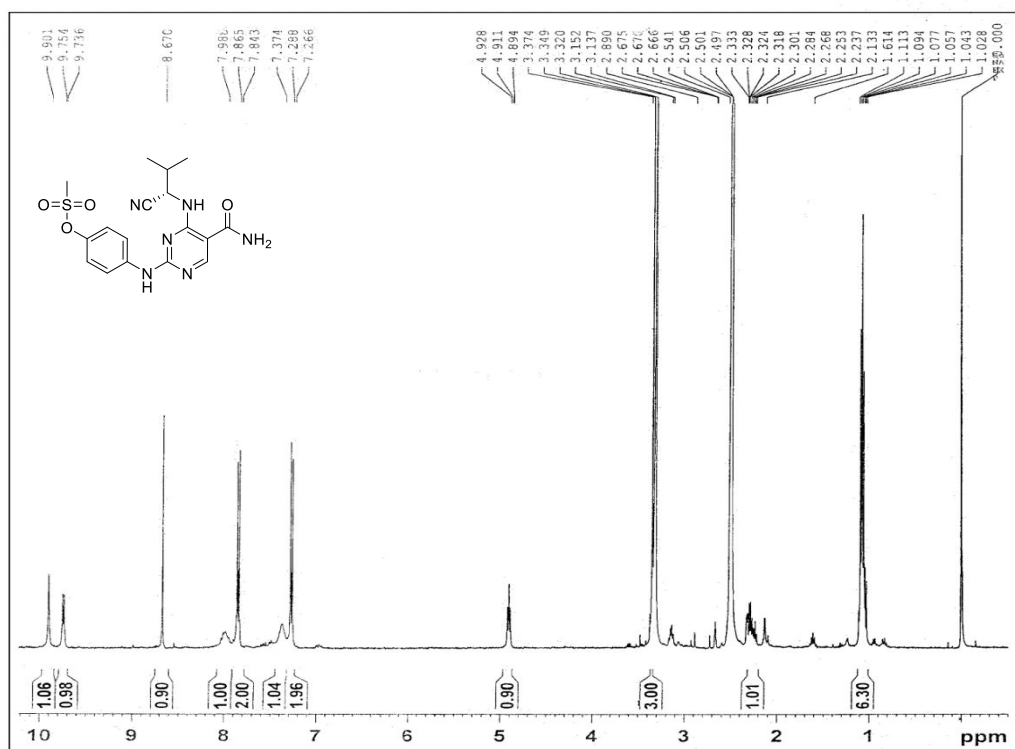
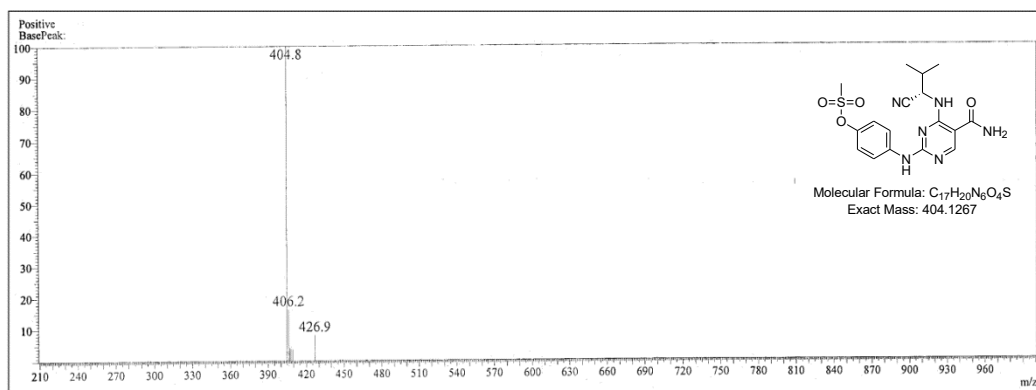
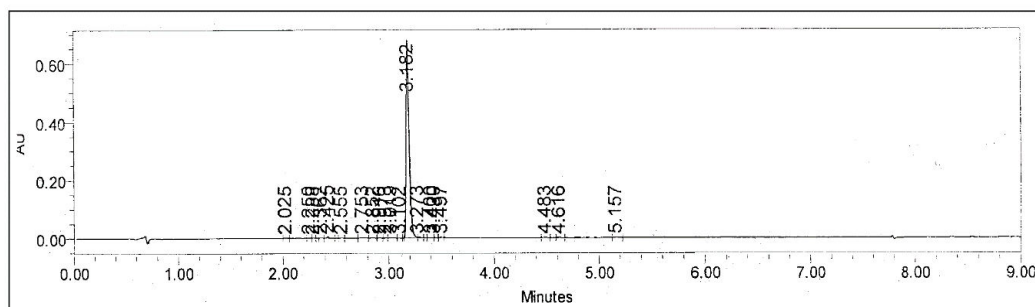
<sup>1</sup>H NMR of compound **48k**ESI-MS of compound **48k**

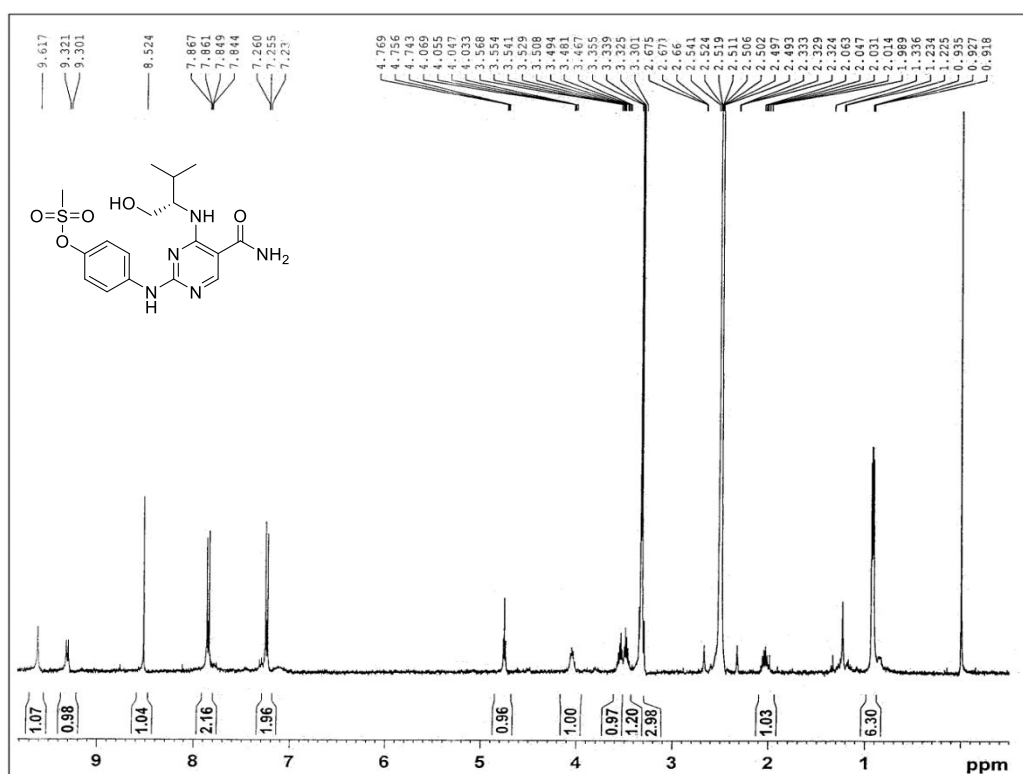
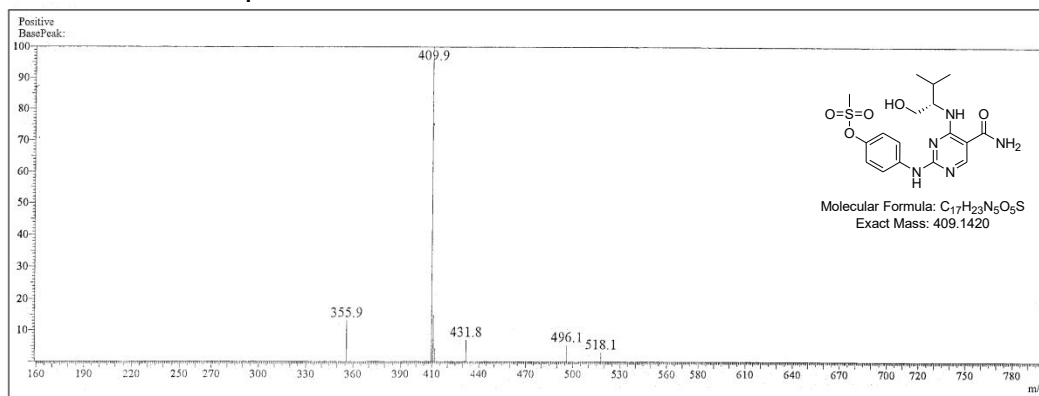
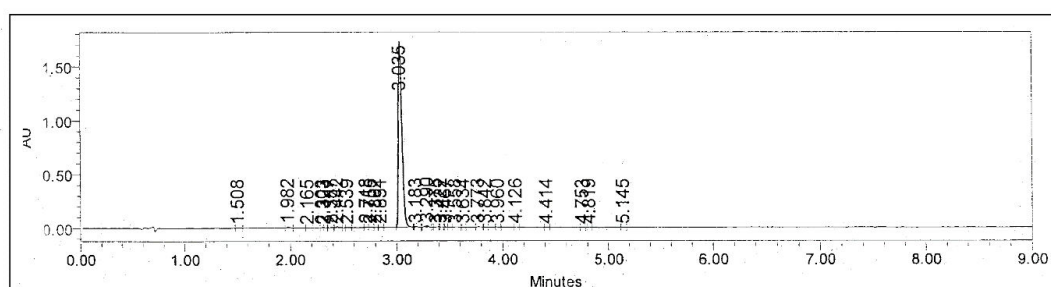
$^{13}\text{C}$  of compound **48k**UPLC of compound **48k**

<sup>1</sup>H NMR of compound **48I**ESI-MS of compound **48I**

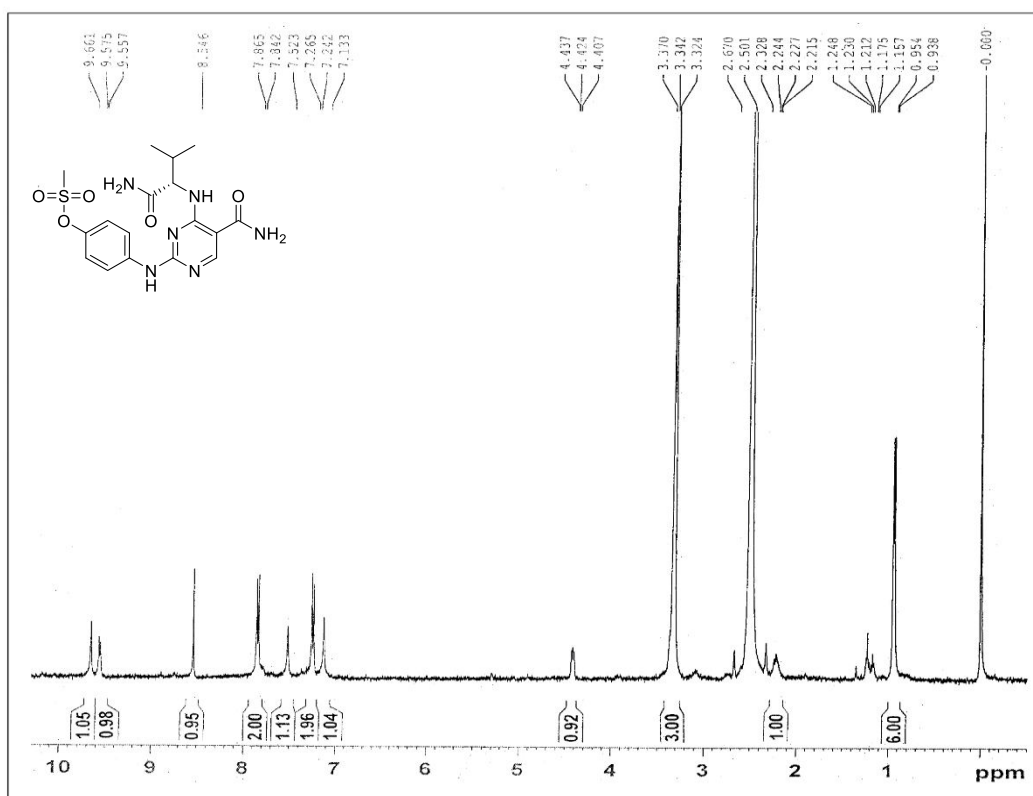
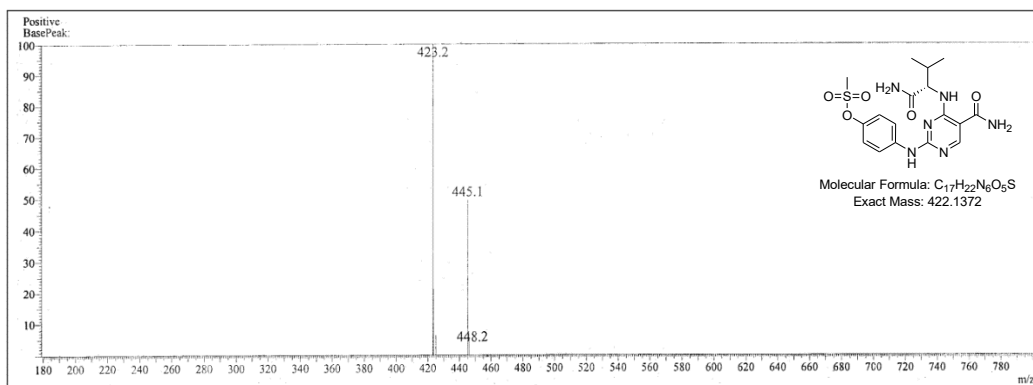
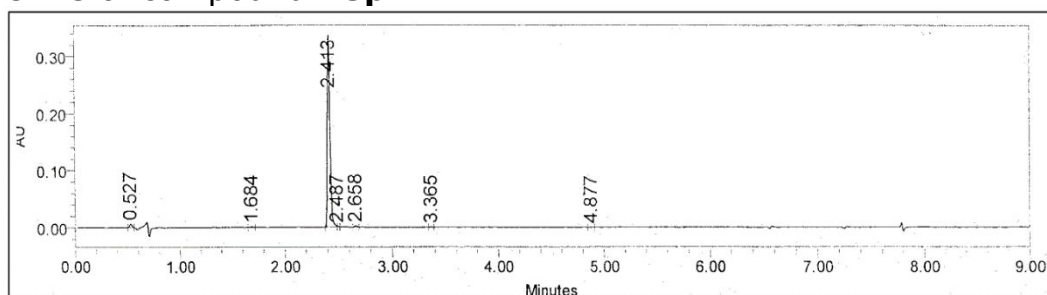
<sup>13</sup>C NMR of compound **48I**HPLC of compound **48I**

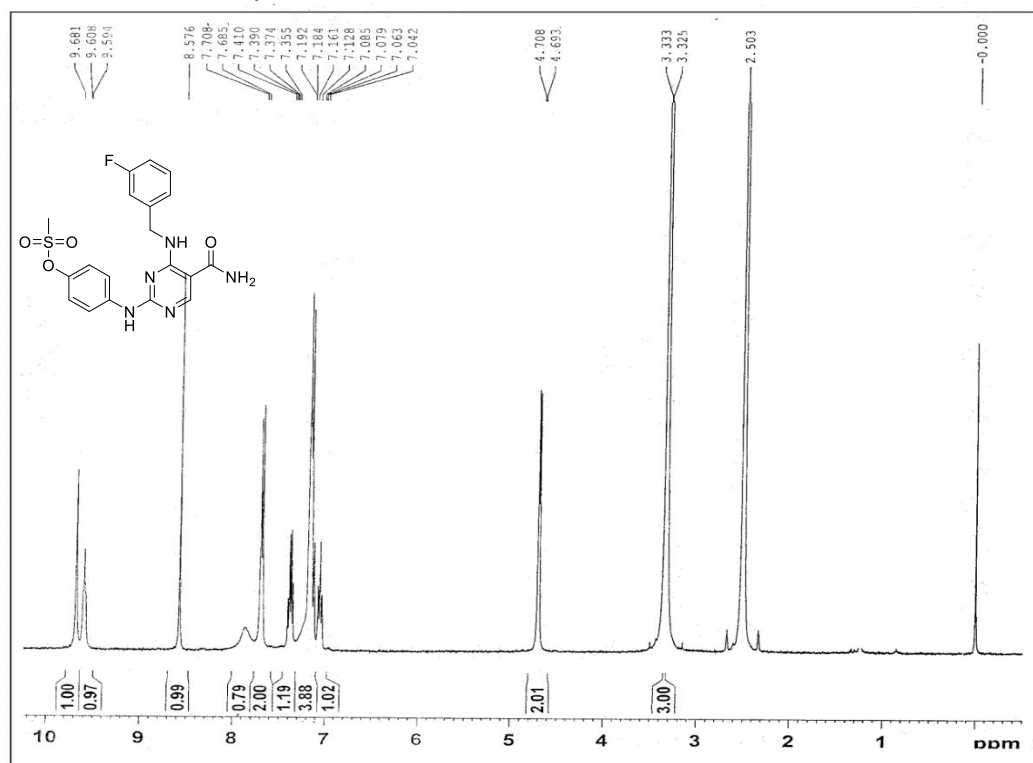
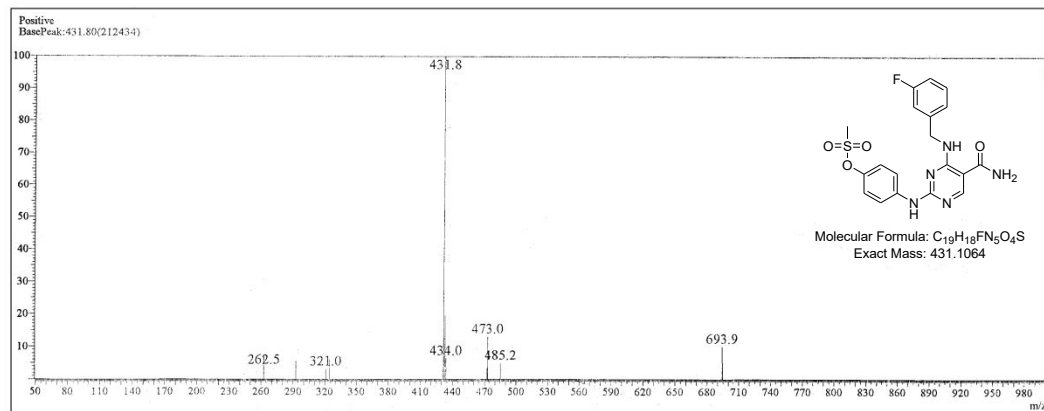
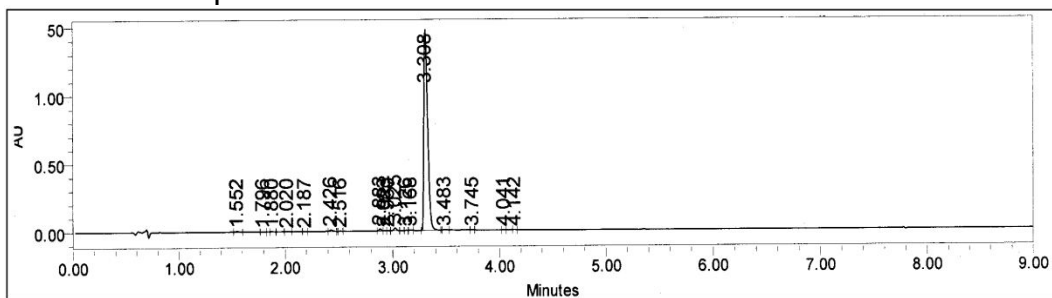
<sup>1</sup>H NMR of compound **48m**ESI-MS of compound **48m**HPLC of compound **48m**

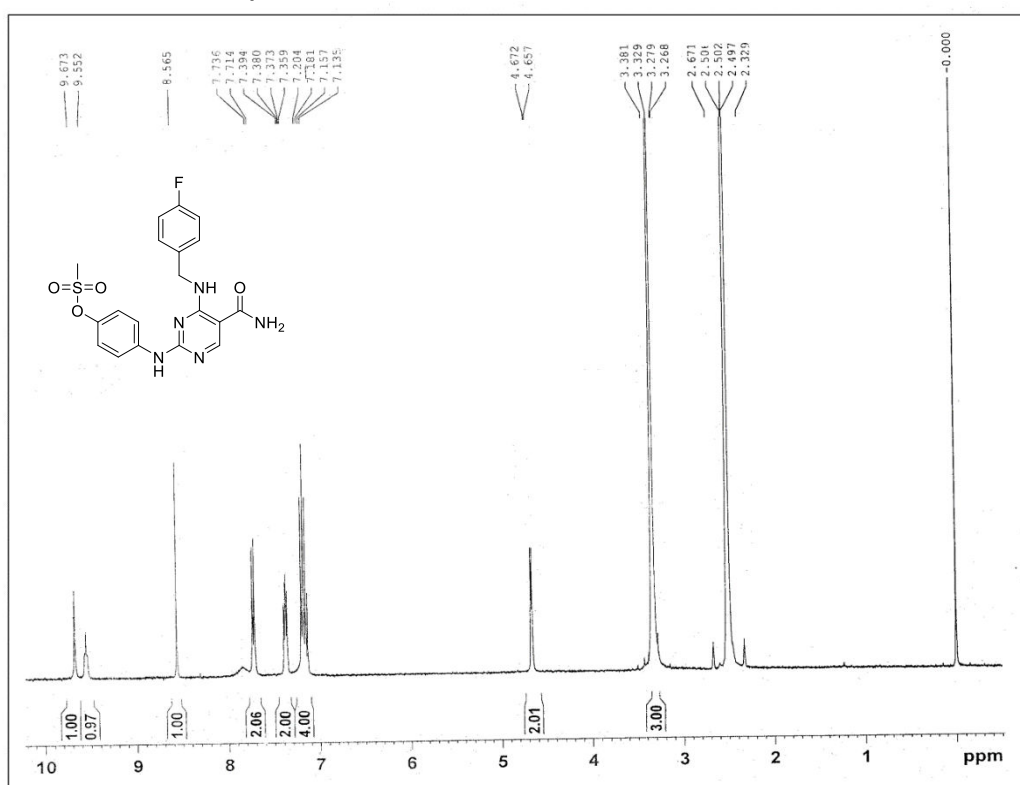
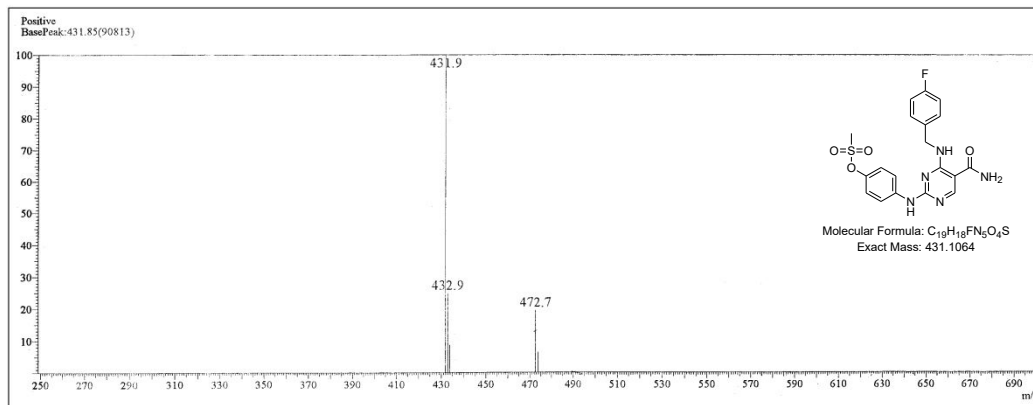
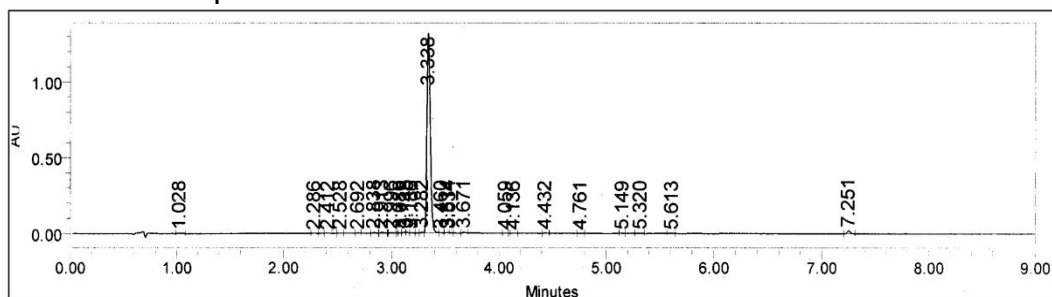
<sup>1</sup>H NMR of compound **48n**ESI-MS of compound **48n**UPLC of compound **48n**

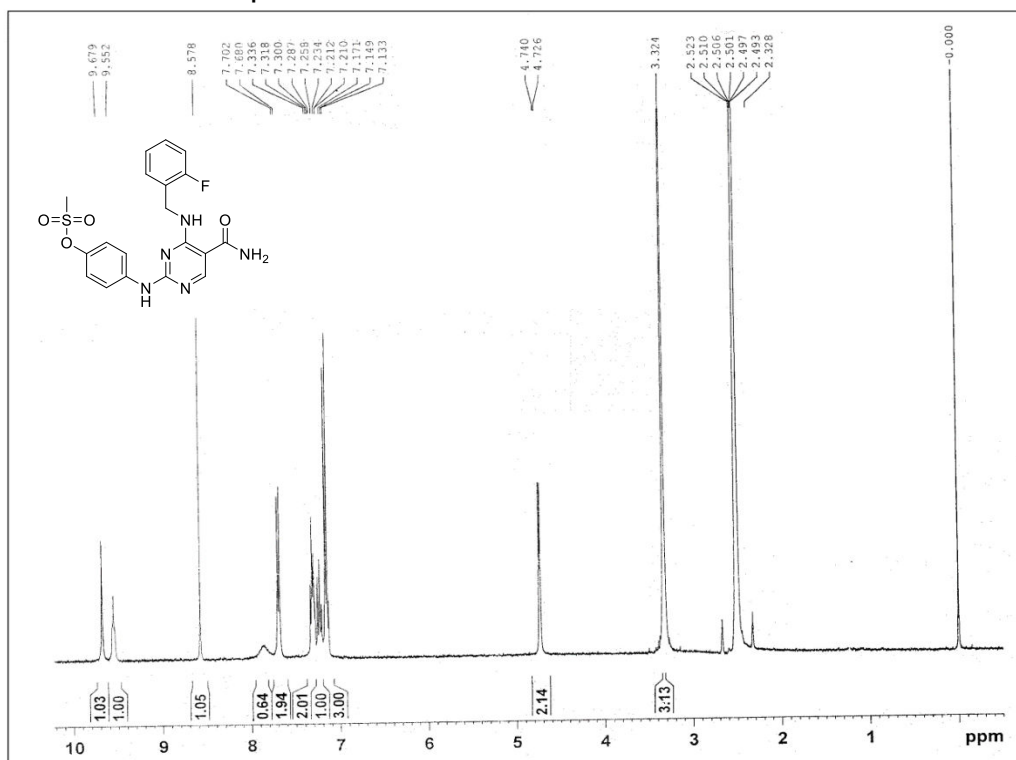
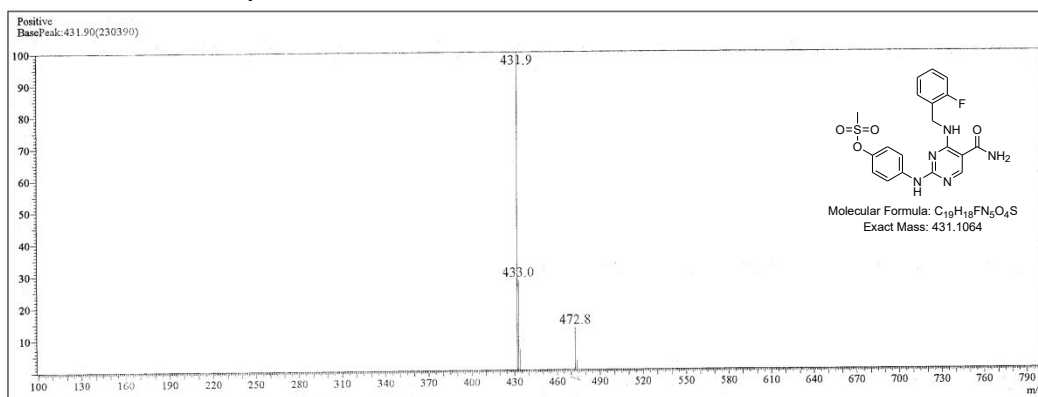
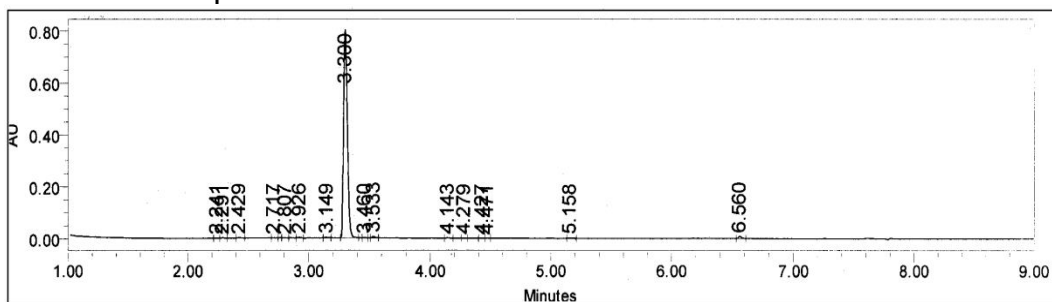
<sup>1</sup>H NMR of compound **48o**ESI-MS of compound **48o**UPLC of compound **48o**

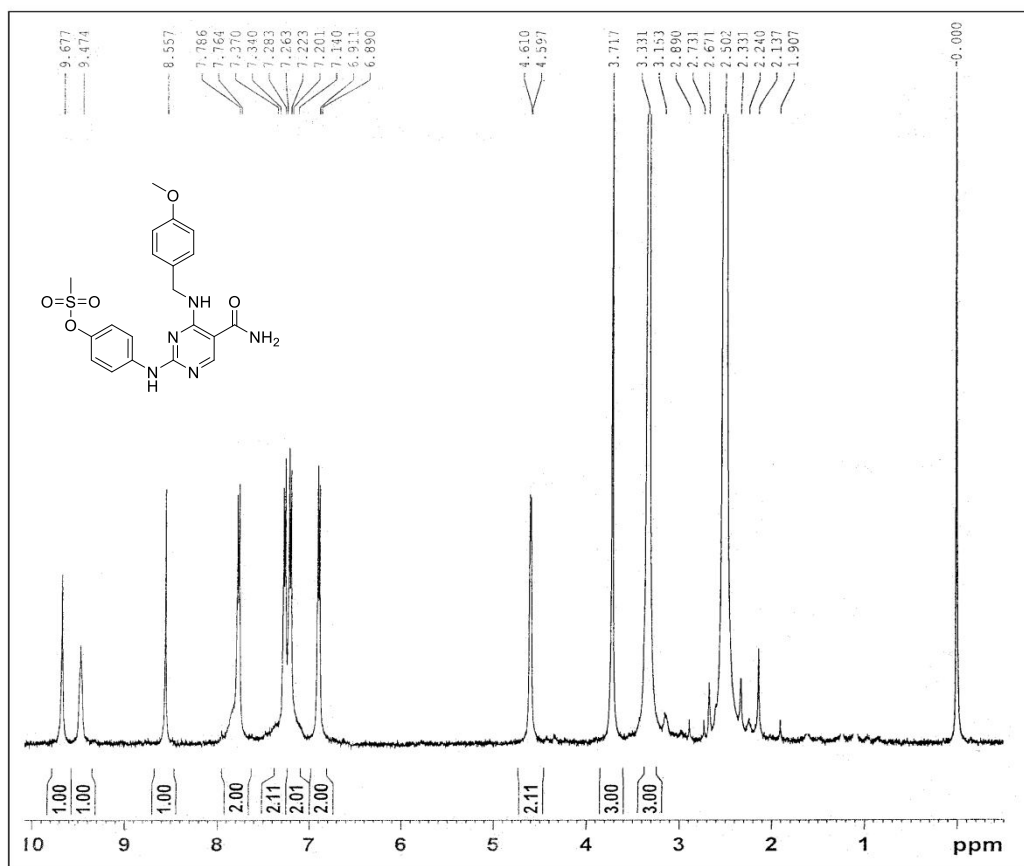
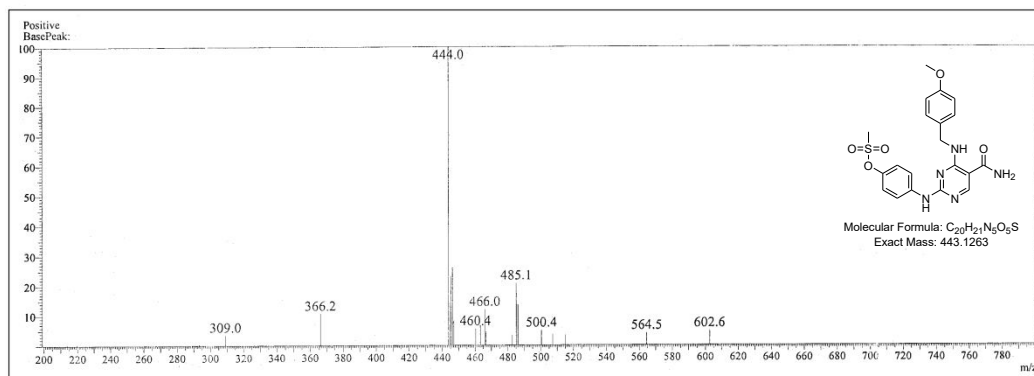
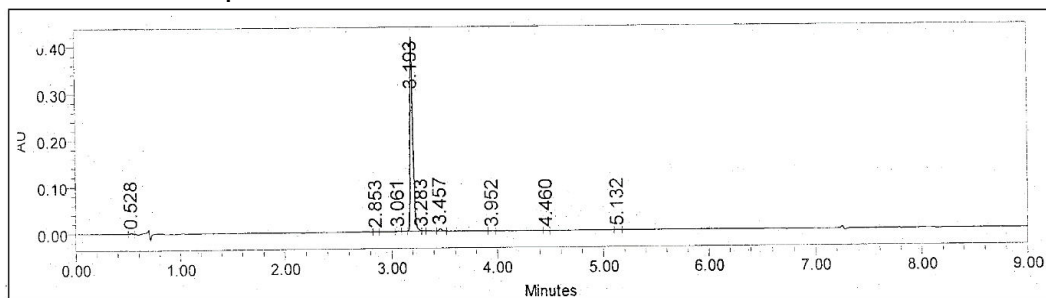


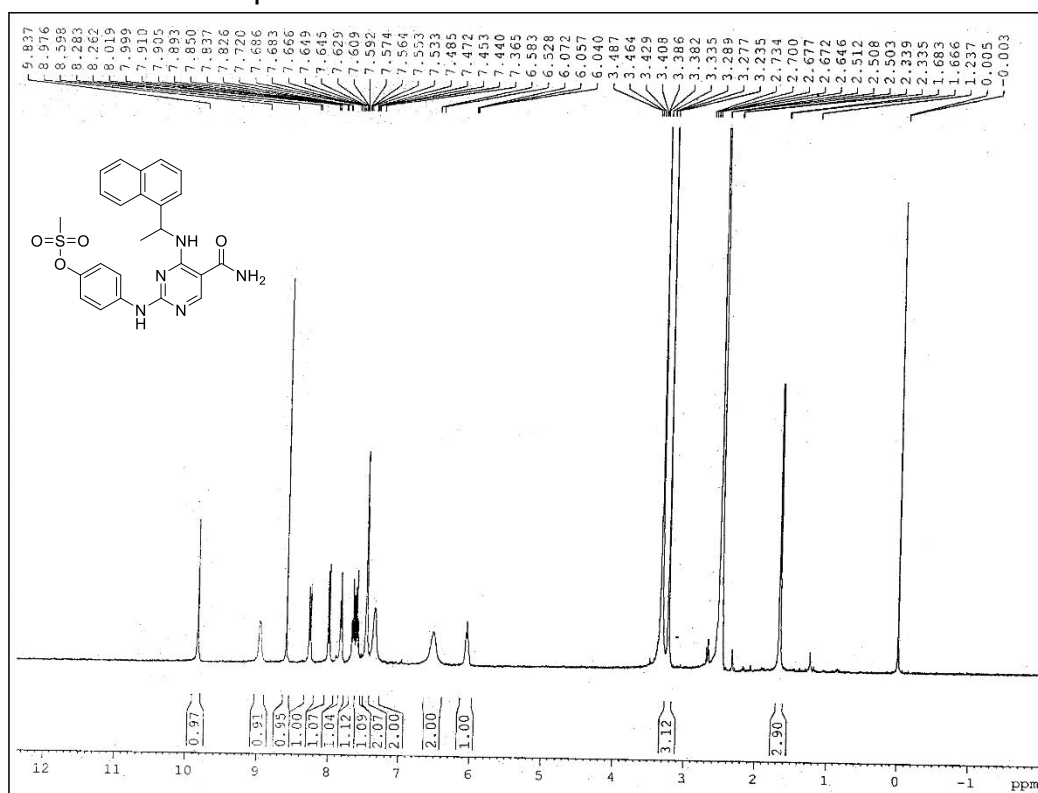
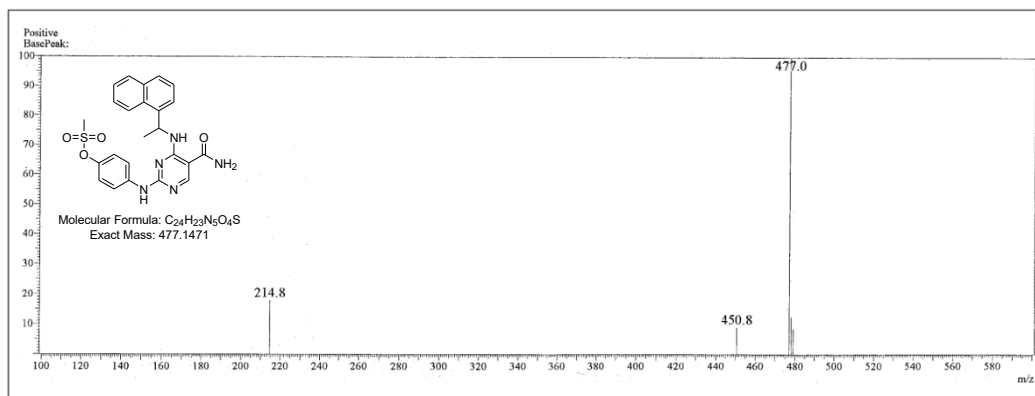
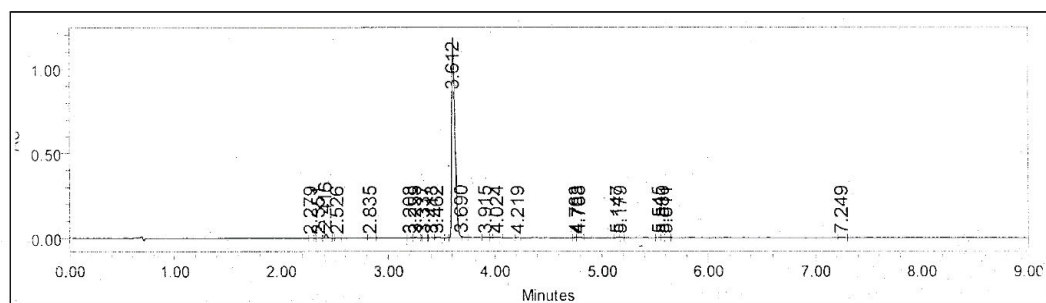
<sup>1</sup>H NMR of compound **48p**ESI-MS of compound **48p**UPLC of compound **48p**

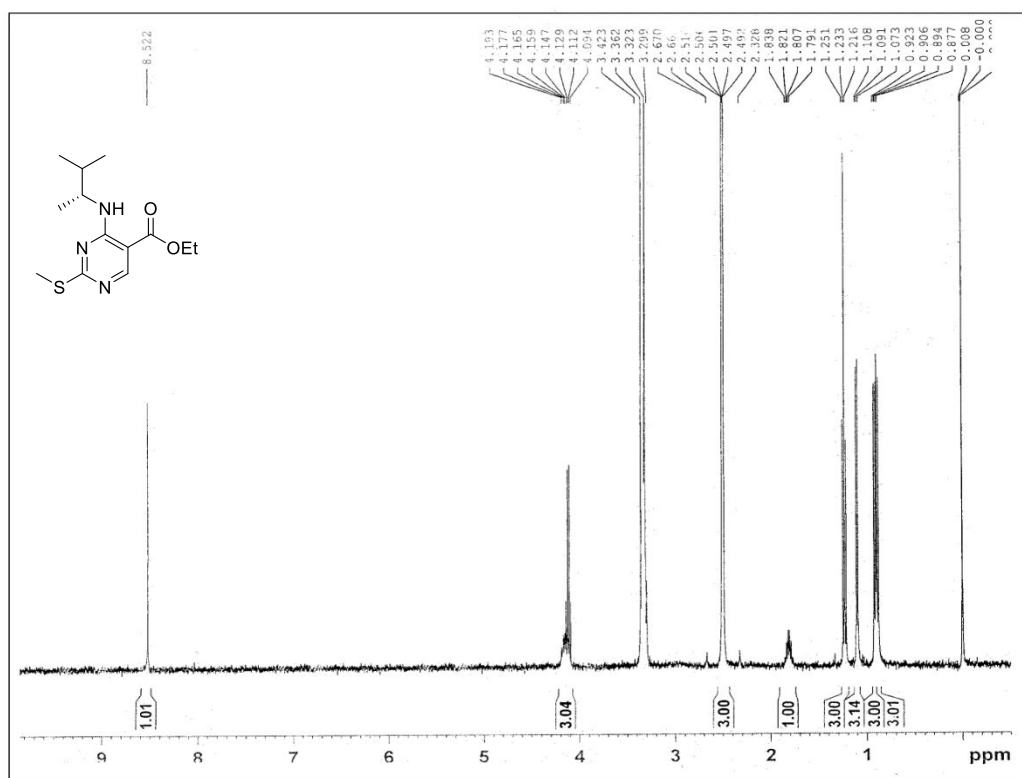
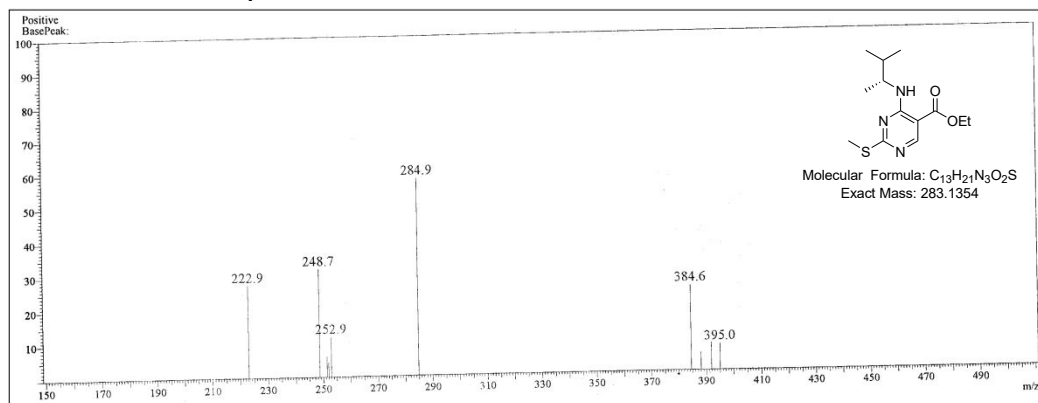
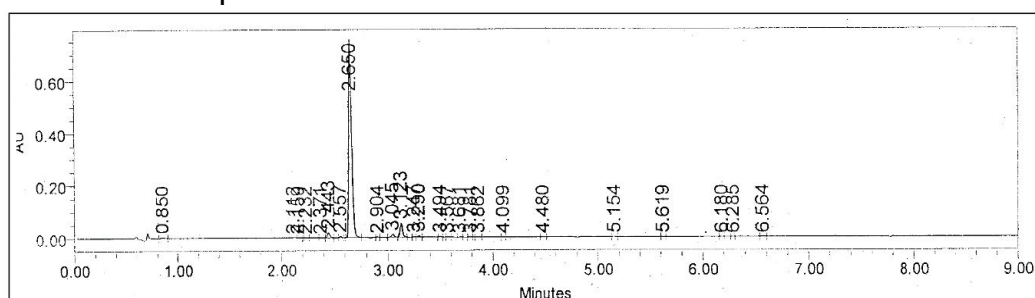
<sup>1</sup>H NMR of compound **48r**ESI-MS of compound **48r**UPLC of compound **48r**

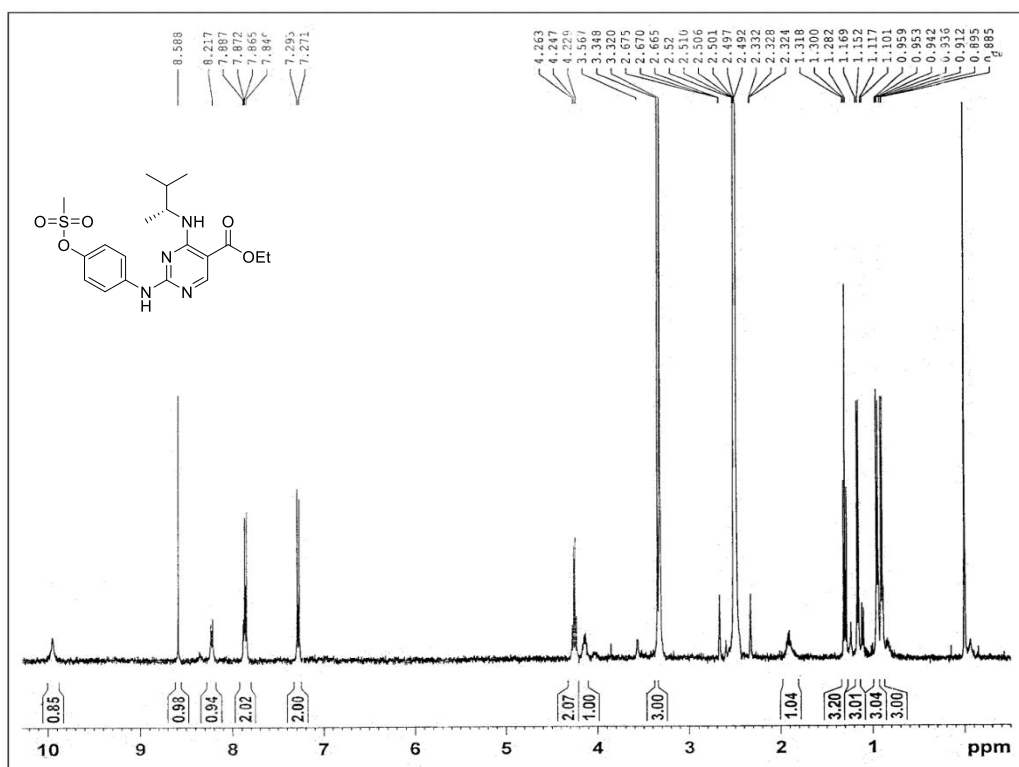
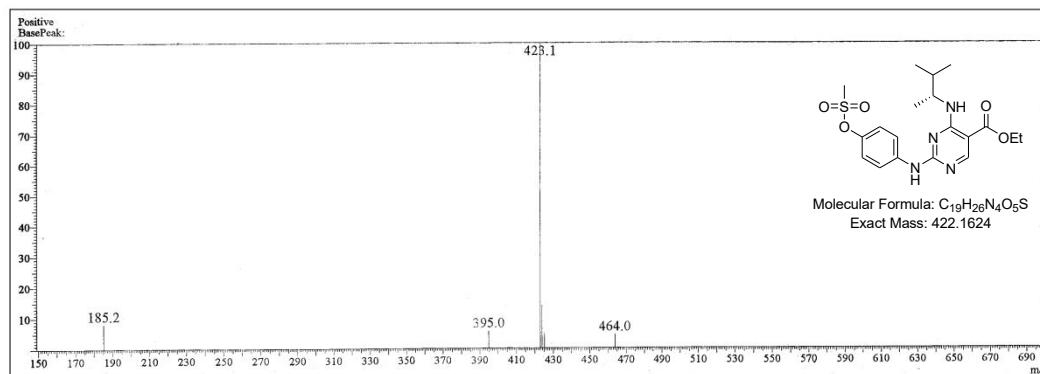
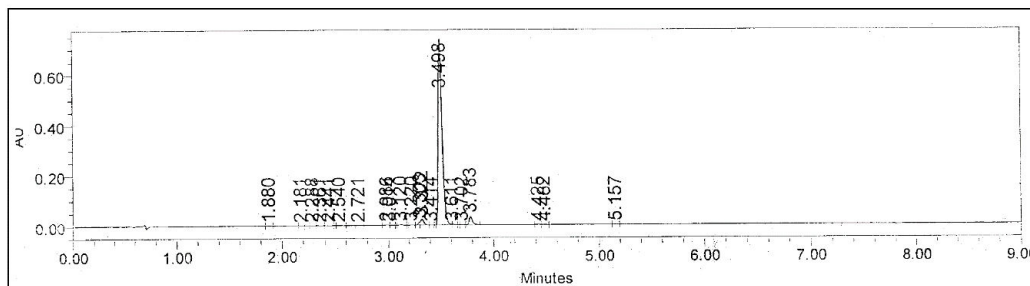
<sup>1</sup>H NMR of compound **48s**ESI-MS of compound **48s**UPLC of compound **48s**

<sup>1</sup>H NMR of compound **48t**ESI-MS of compound **48t**UPLC of compound **48t**

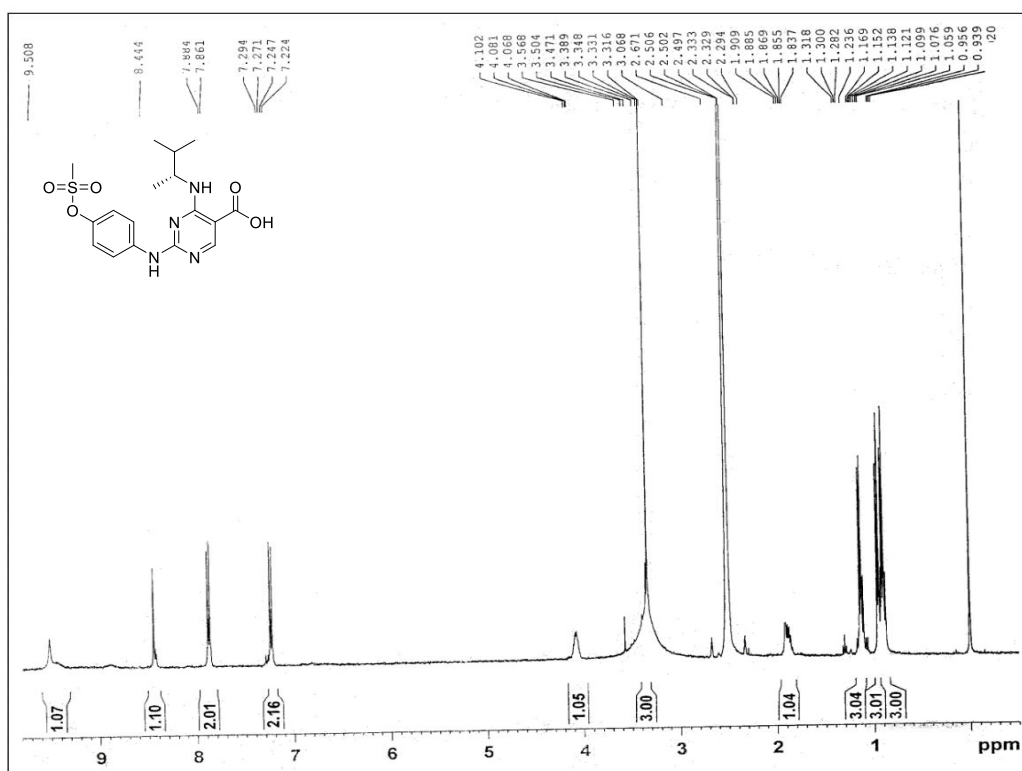
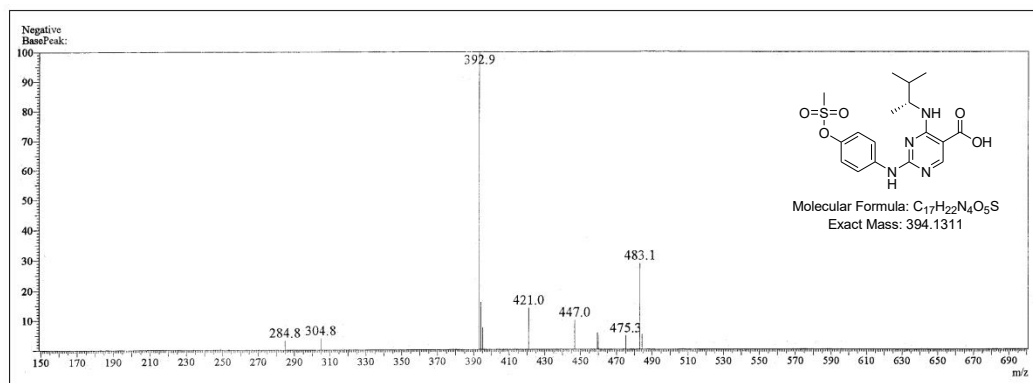
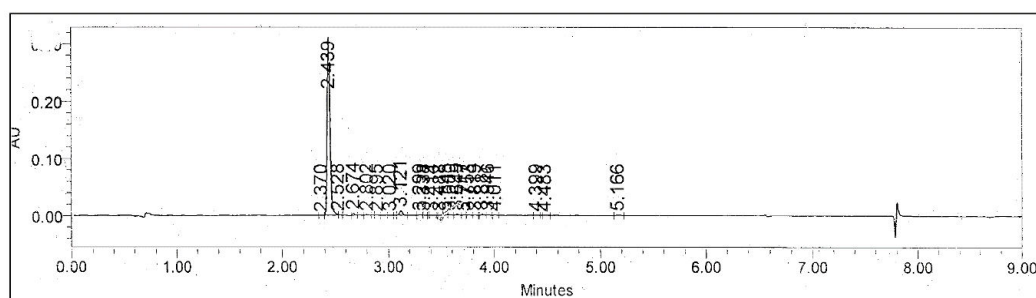
<sup>1</sup>H NMR of compound **48u**ESI-MS of compound **48u**UPLC of compound **48u**

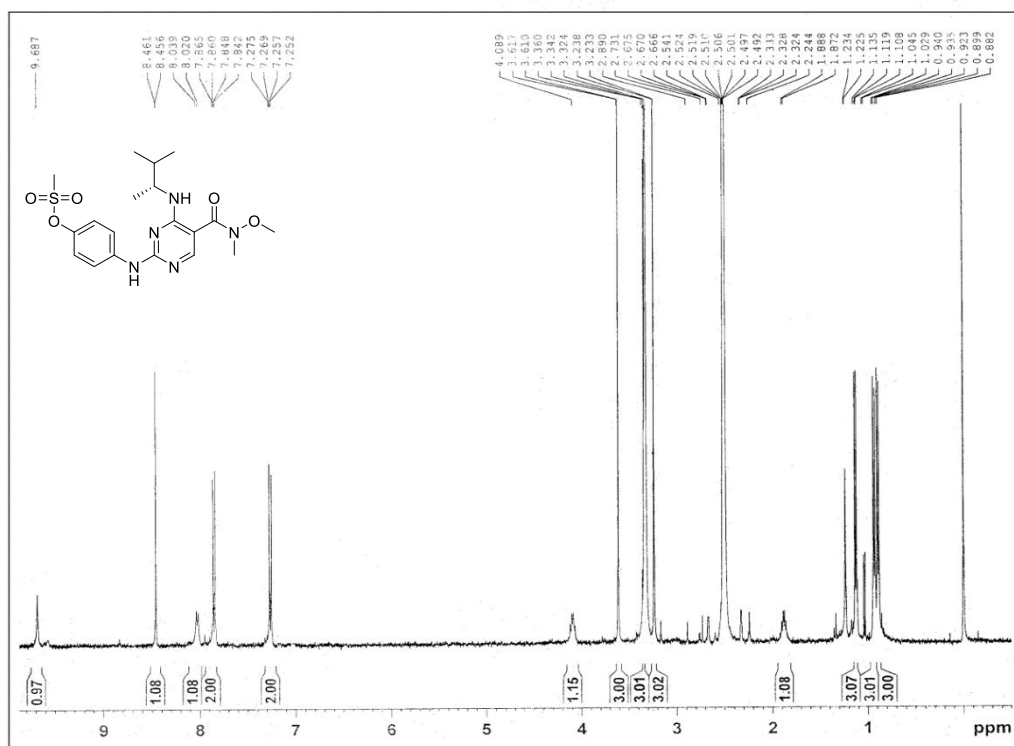
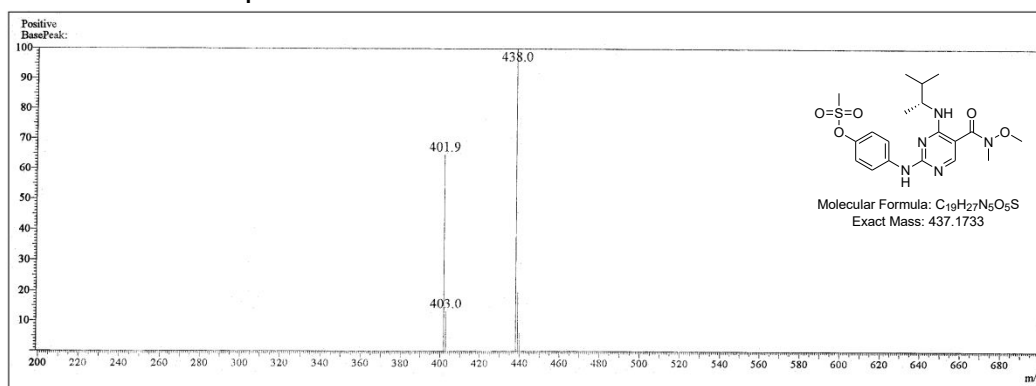
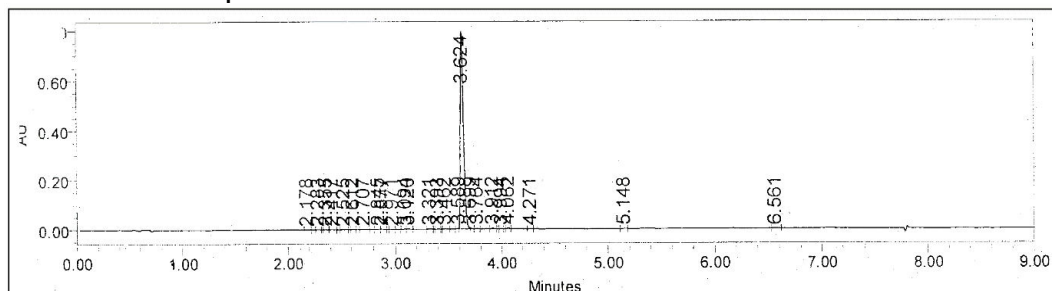
<sup>1</sup>H NMR of compound **48v**ESI-MS of compound **48v**UPLC of compound **48v**

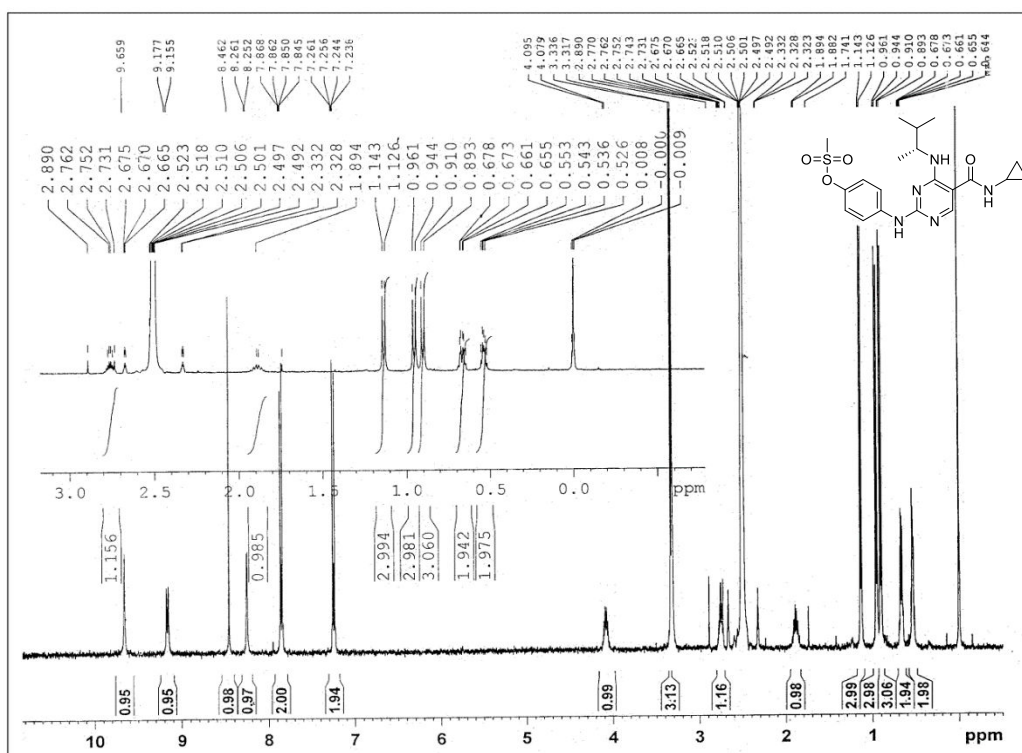
<sup>1</sup>H NMR of compound **50**ESI-MS of compound **50**UPLC of compound **50**

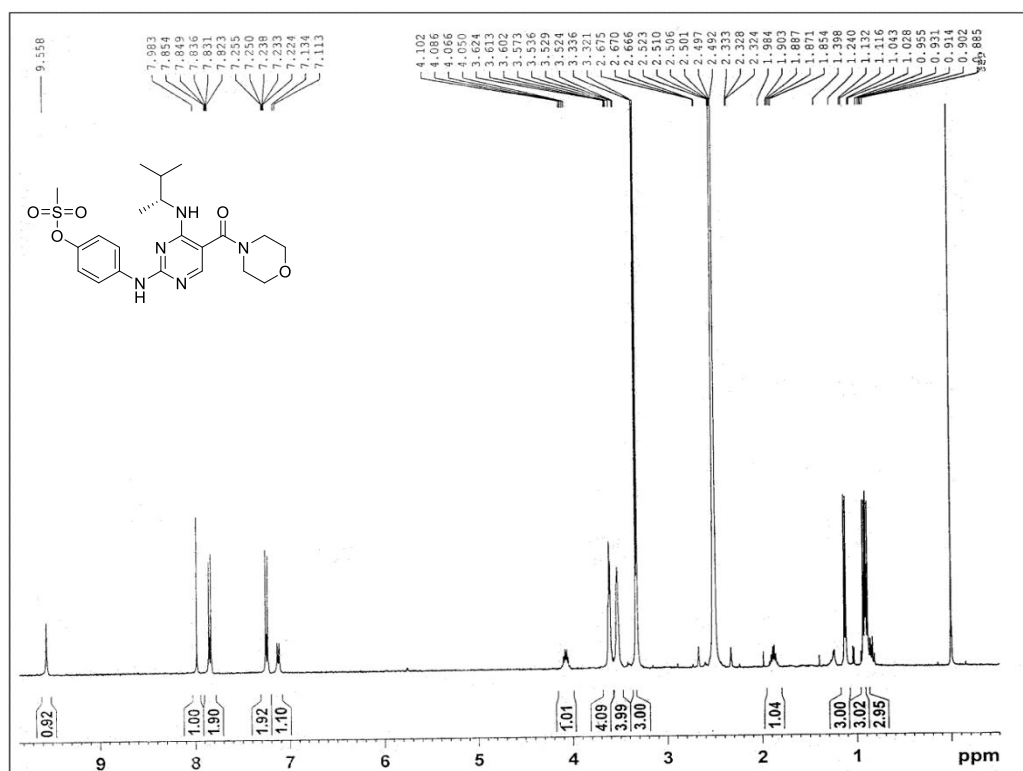
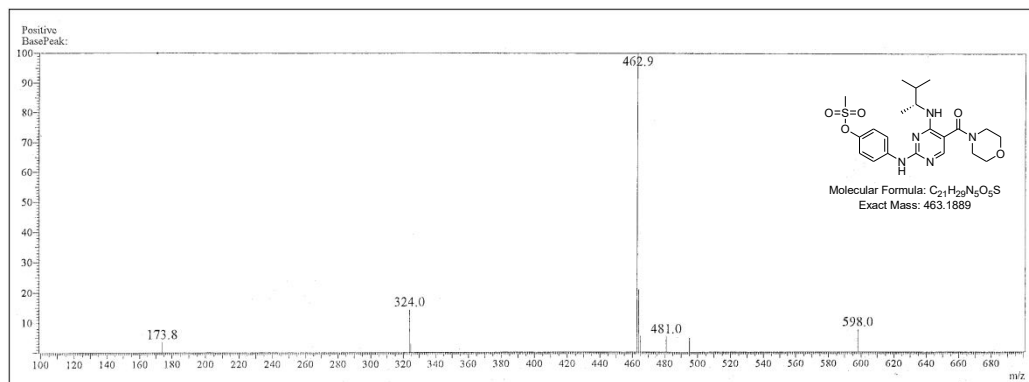
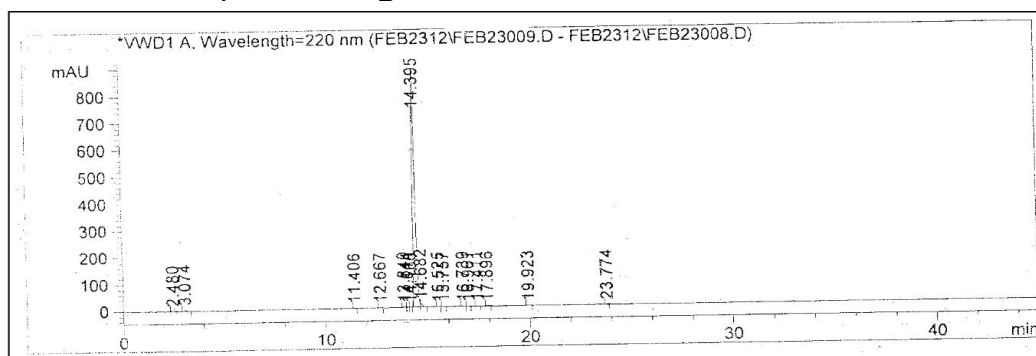
<sup>1</sup>H NMR of compound **52**ESI-MS of compound **52**UPLC of compound **52**

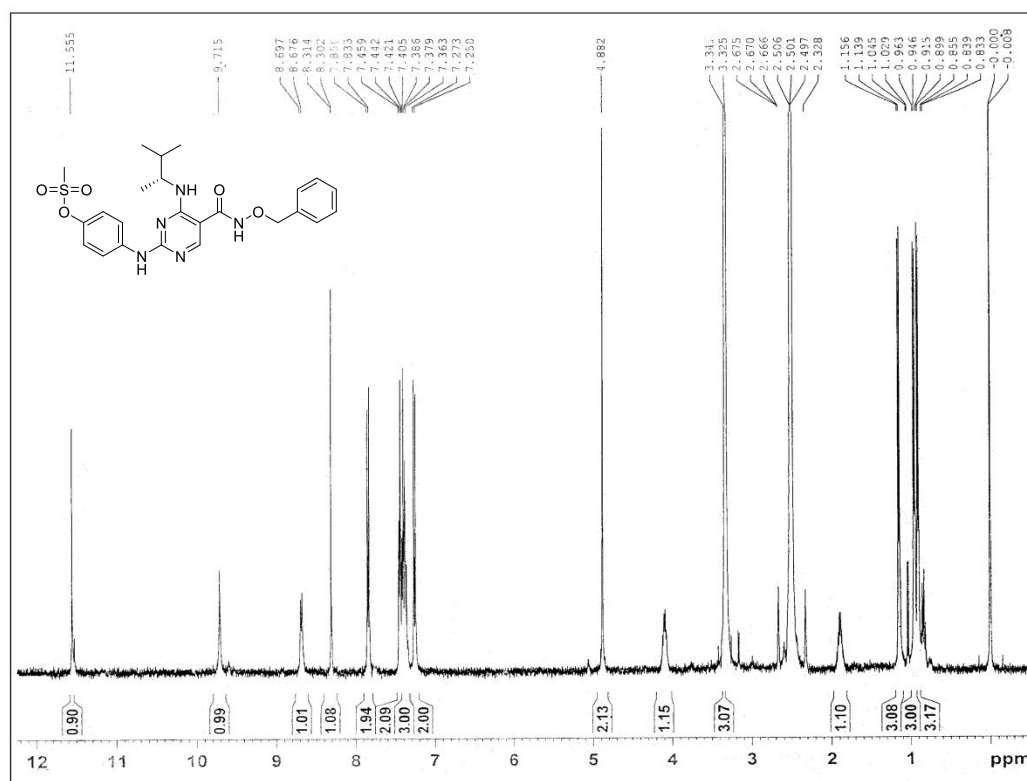
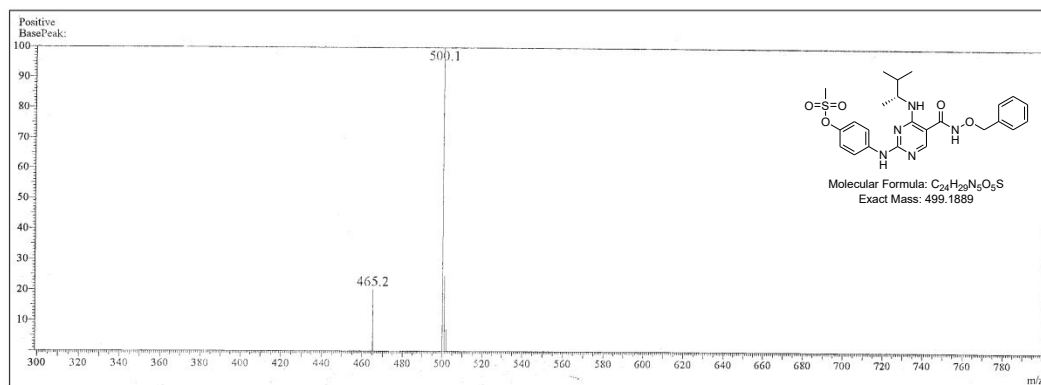
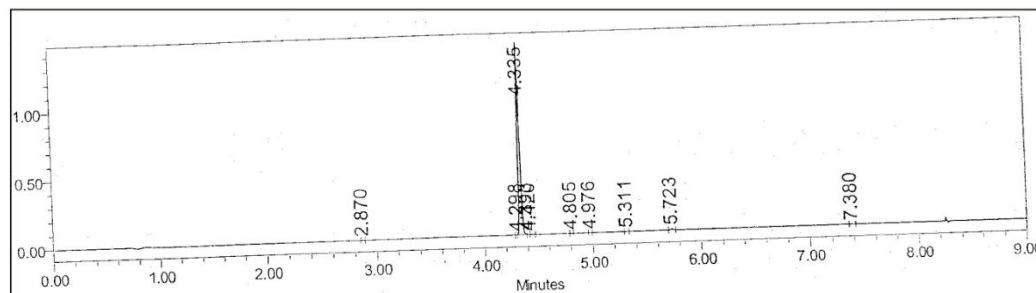


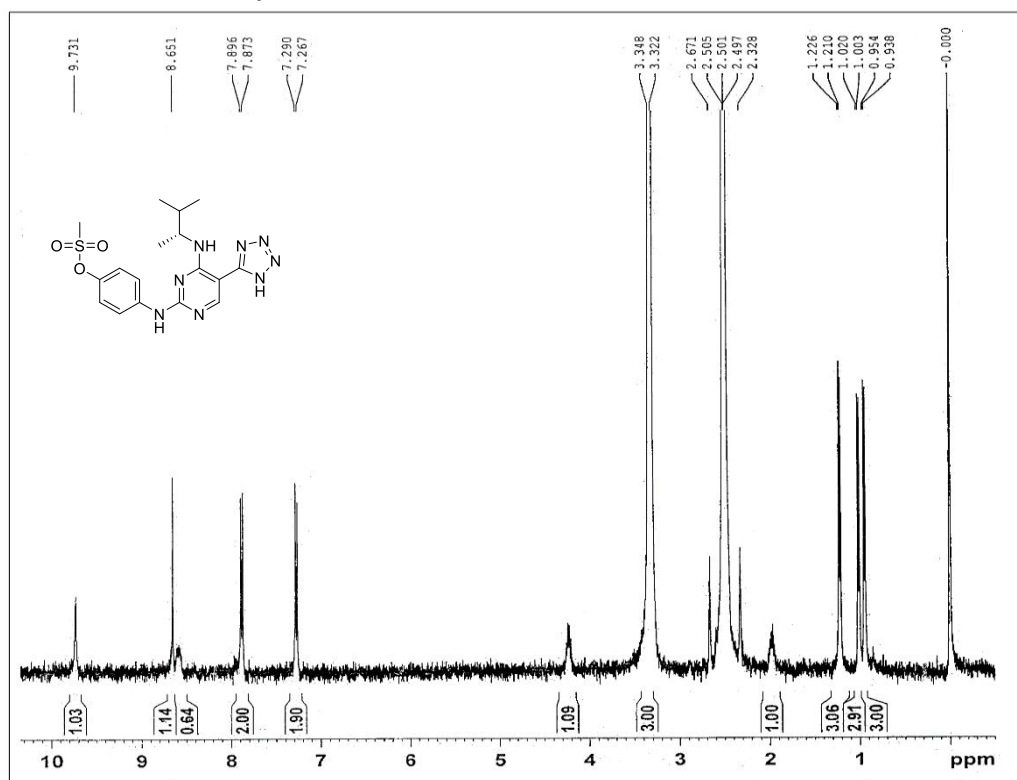
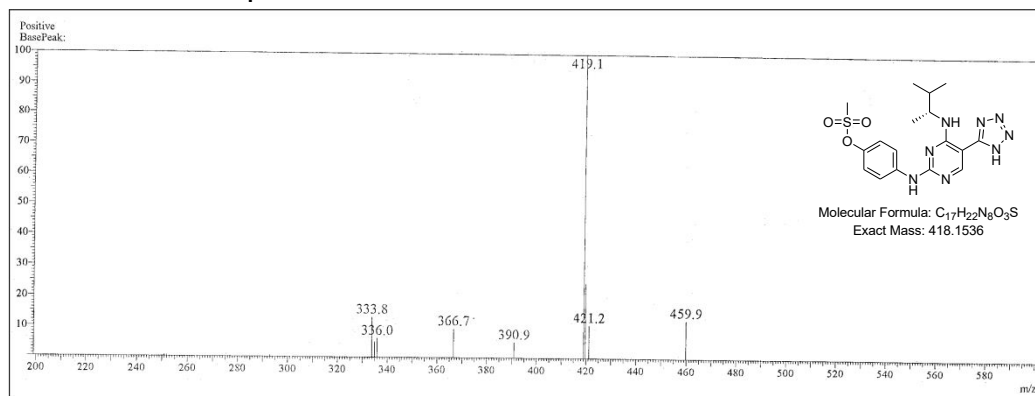
<sup>1</sup>H NMR of compound **53**ESI-MS of compound **53**UPLC of compound **53**

<sup>1</sup>H NMR of compound **54d**ESI-MS of compound **54d**UPLC of compound **54d**

<sup>1</sup>H NMR of compound **54e**

<sup>1</sup>H NMR of compound **54g**ESI-MS of compound **54g**HPLC of compound **54g**

<sup>1</sup>H NMR of compound **54m**ESI-MS of compound **54m**UPLC of compound **54m**

<sup>1</sup>H NMR of compound **56**ESI-MS of compound **56**UPLC of compound **56**