

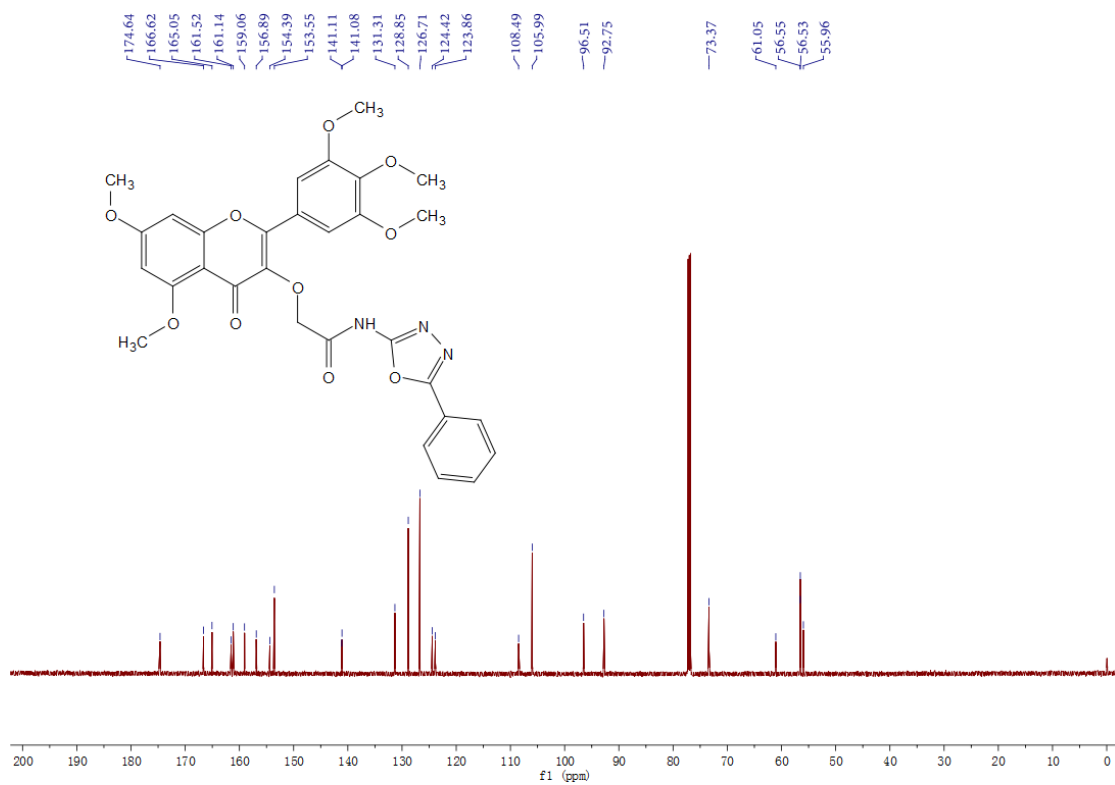
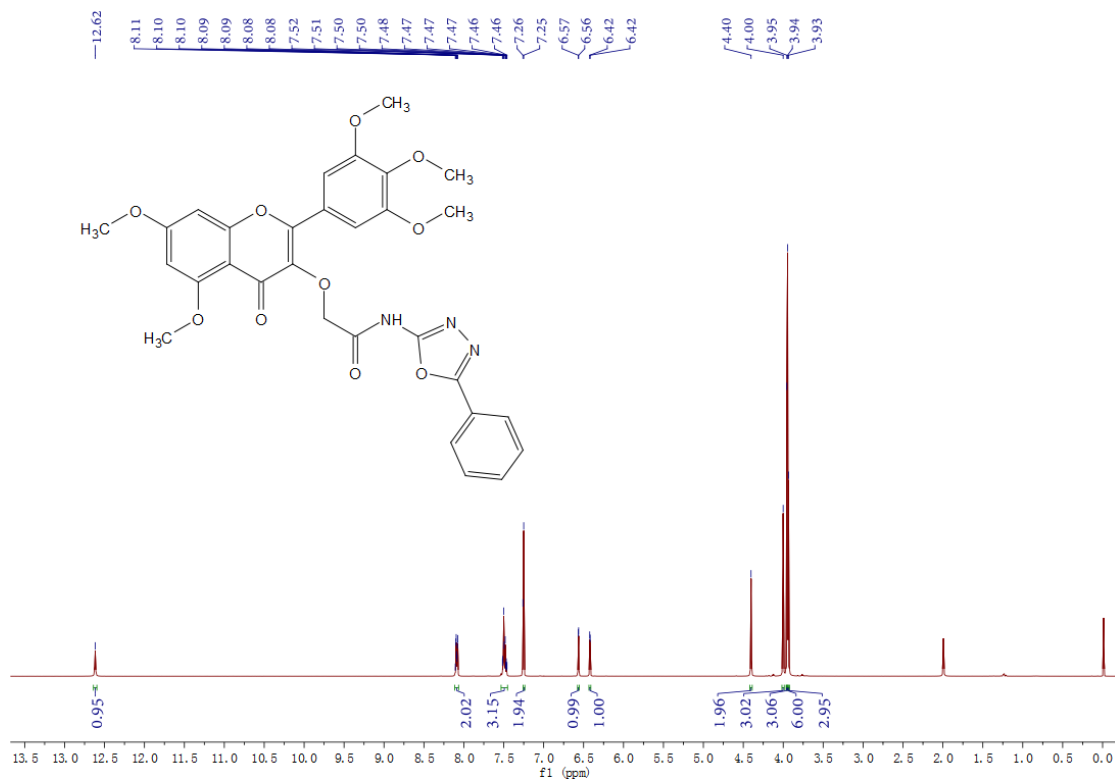
**Synthesis, telomerase inhibitory and anticancer activity of new  
2-phenyl-4H-chromone derivatives containing 1,3,4-oxadiazole moiety**

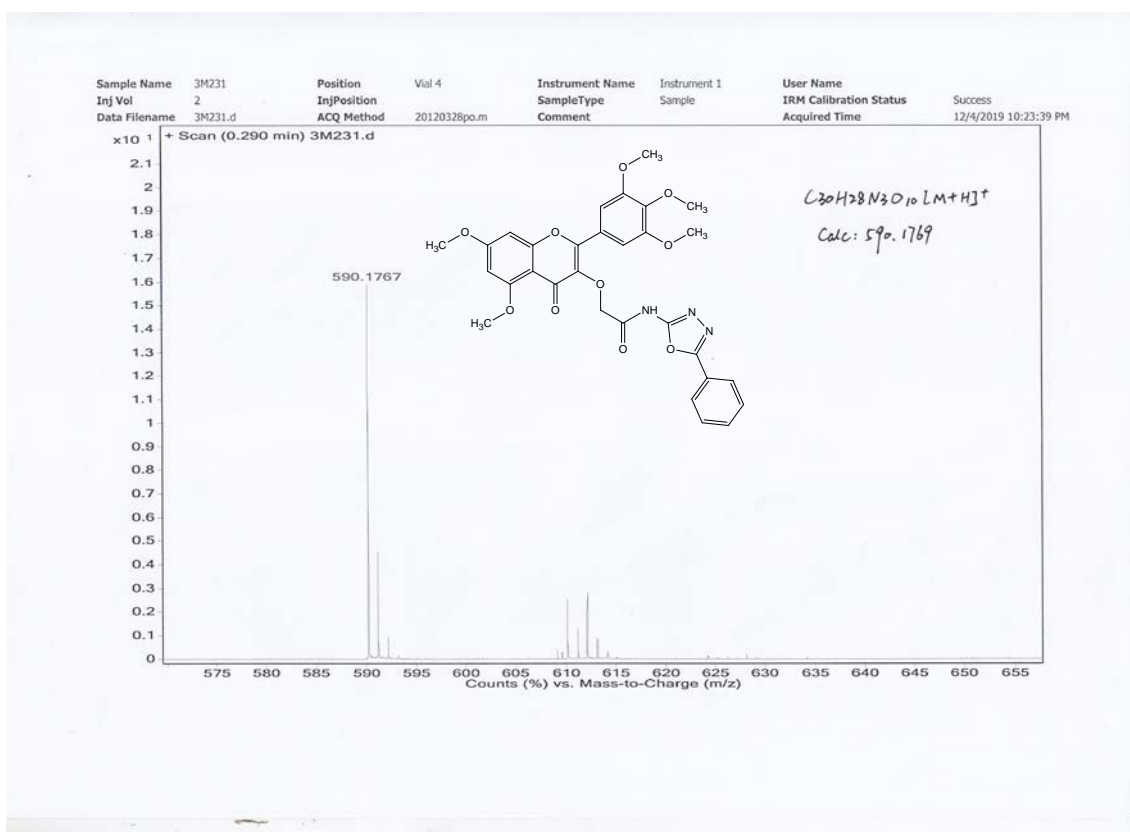
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# 1. The spectrum of $^1\text{H}$ NMR, $^{13}\text{C}$ NMR and HRMS of compounds A1-A33 and B1-B33

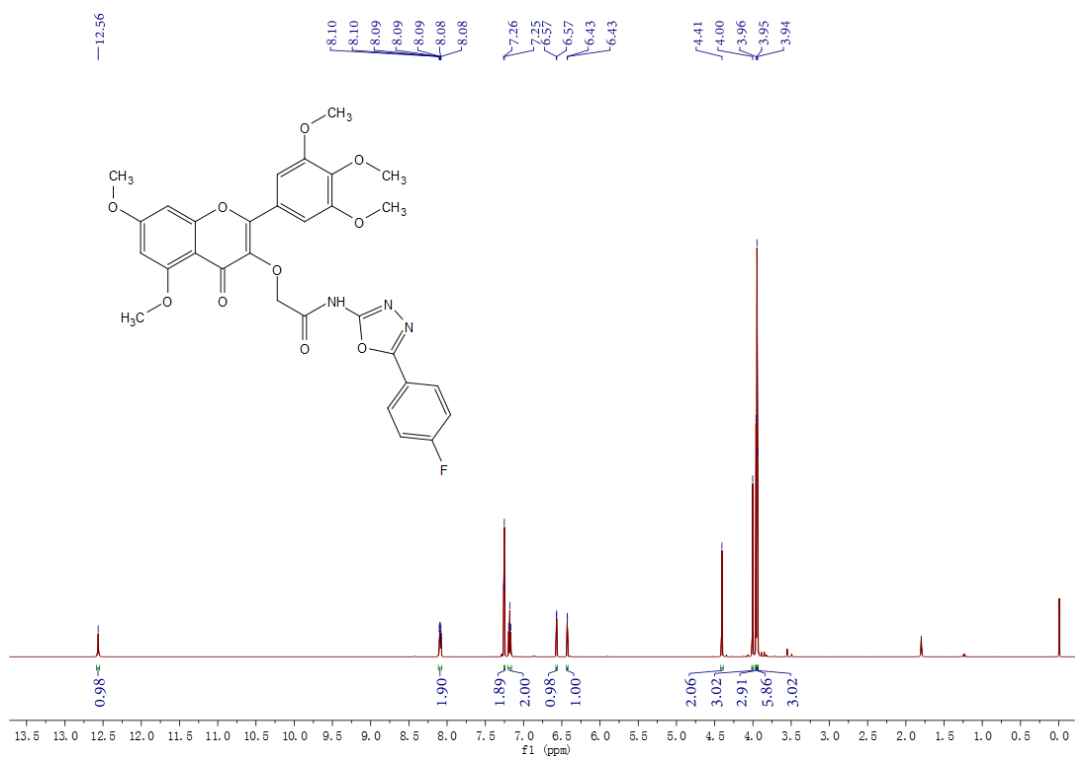
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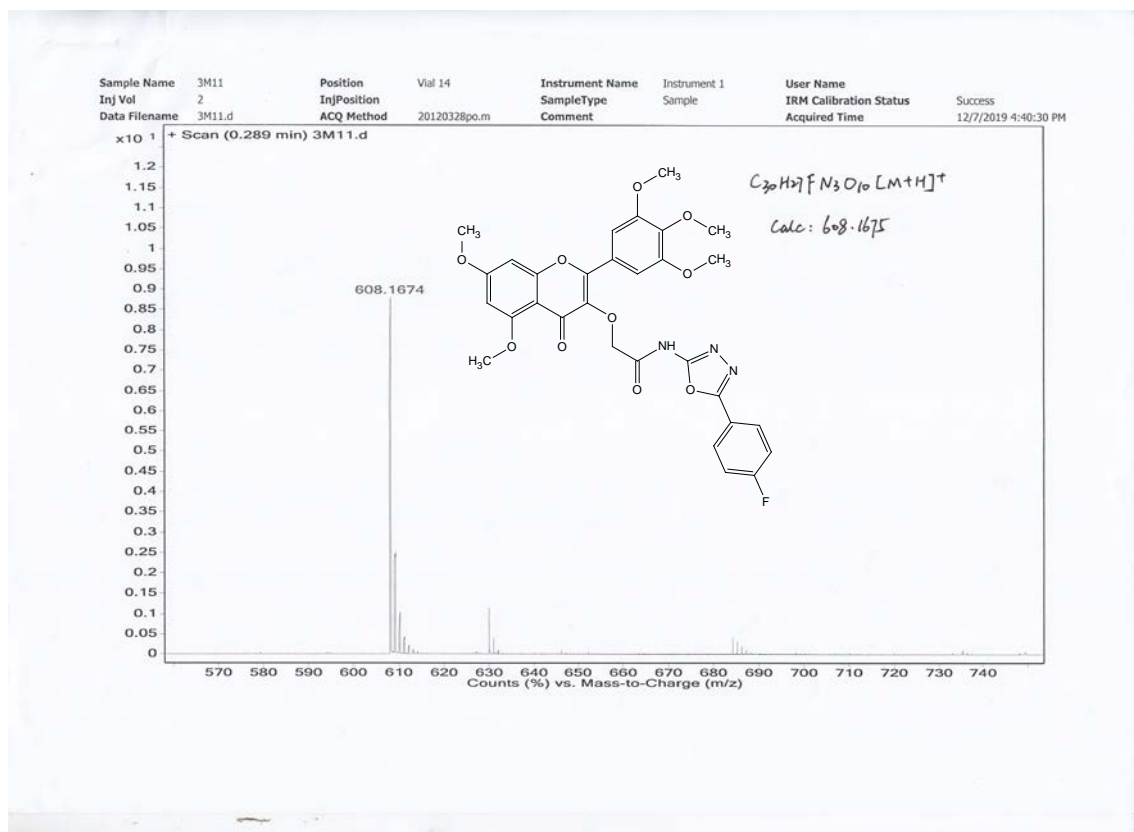
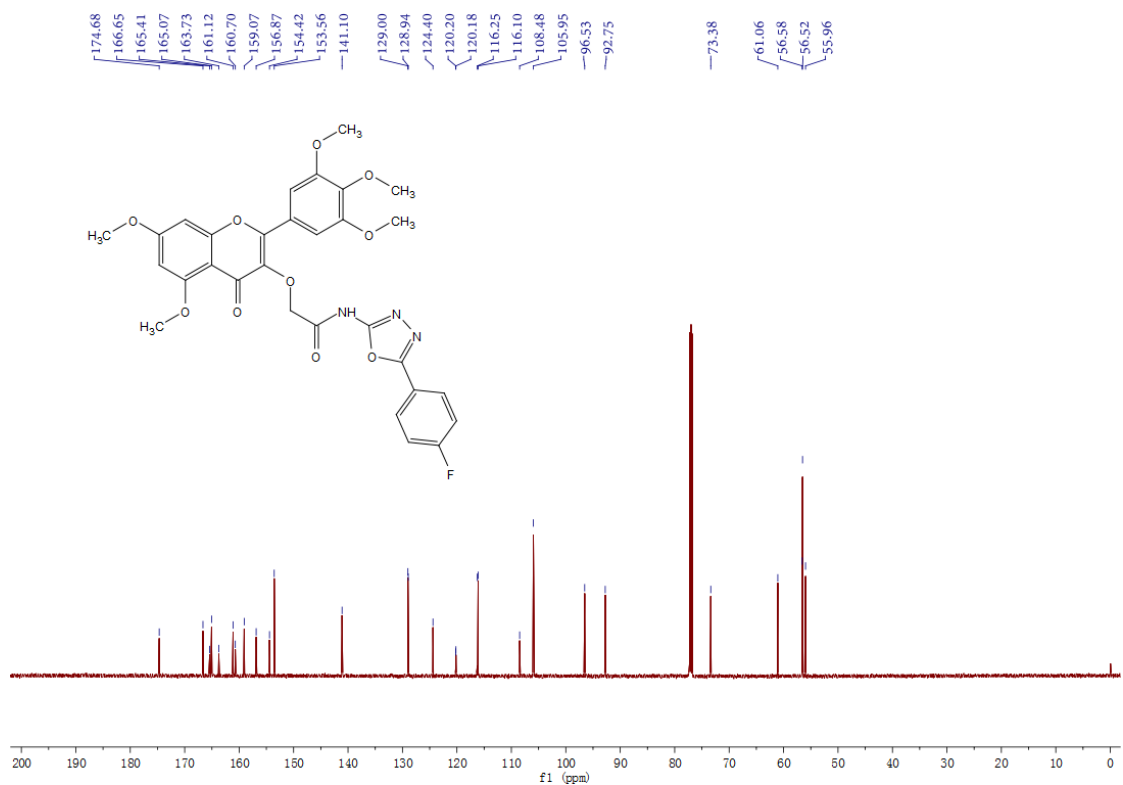


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A1

A2



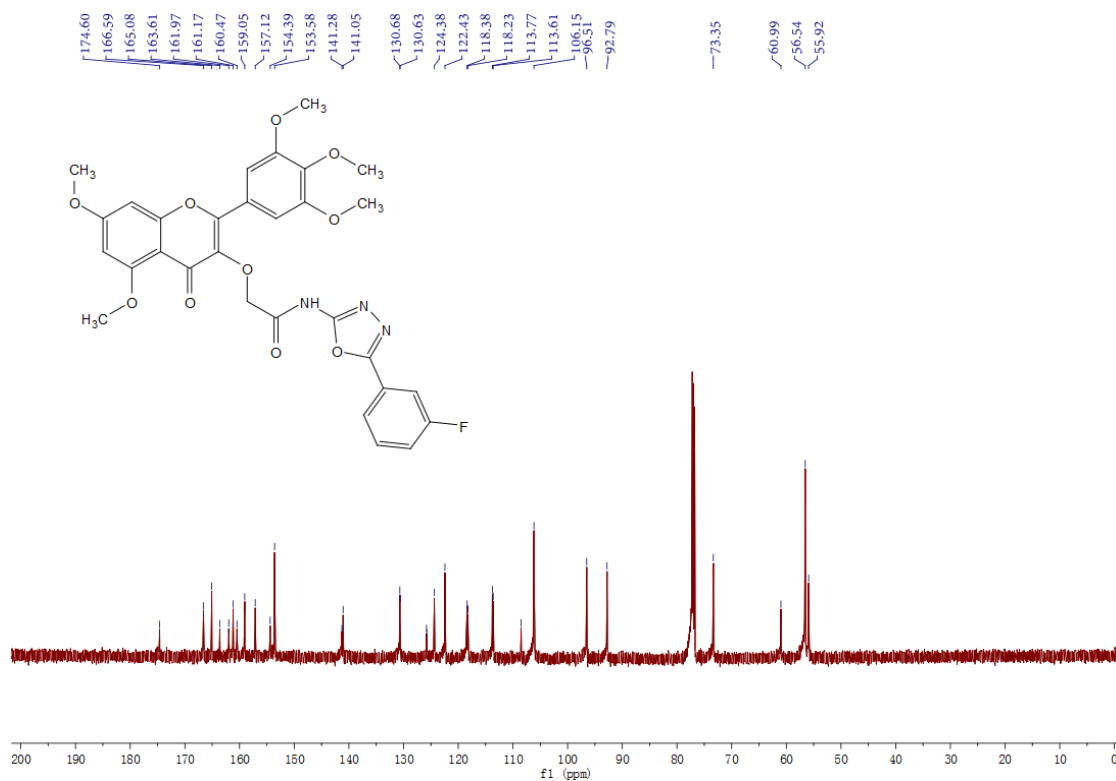
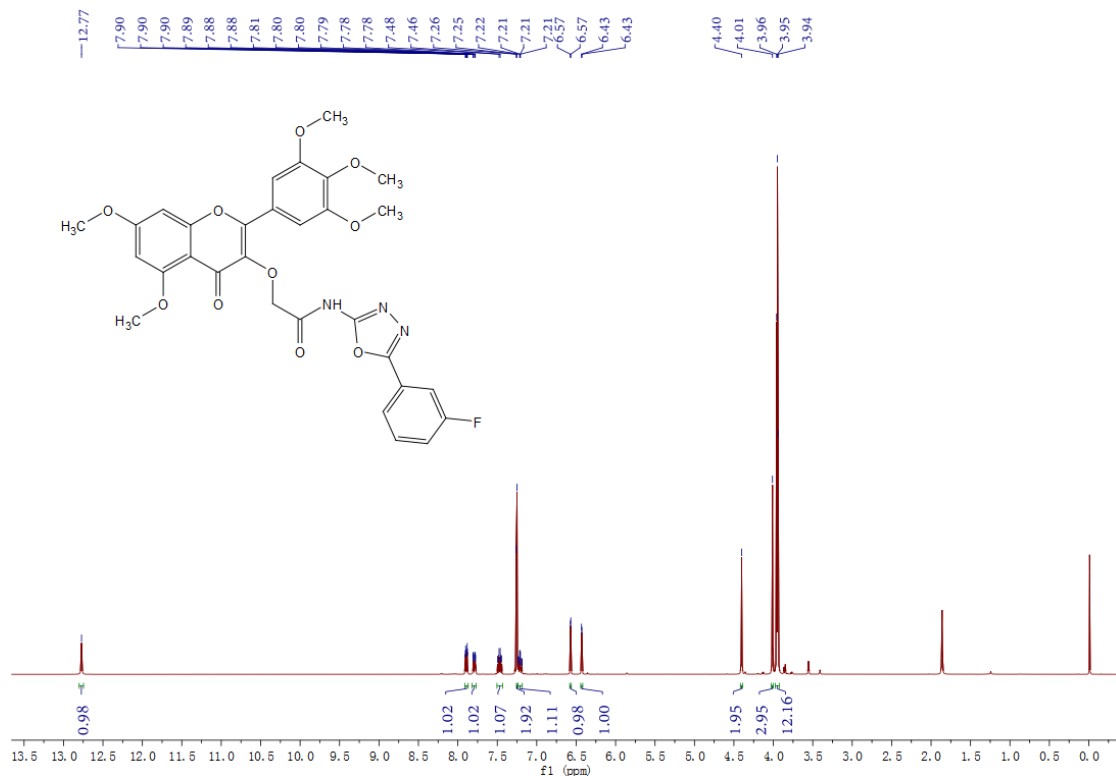
S2



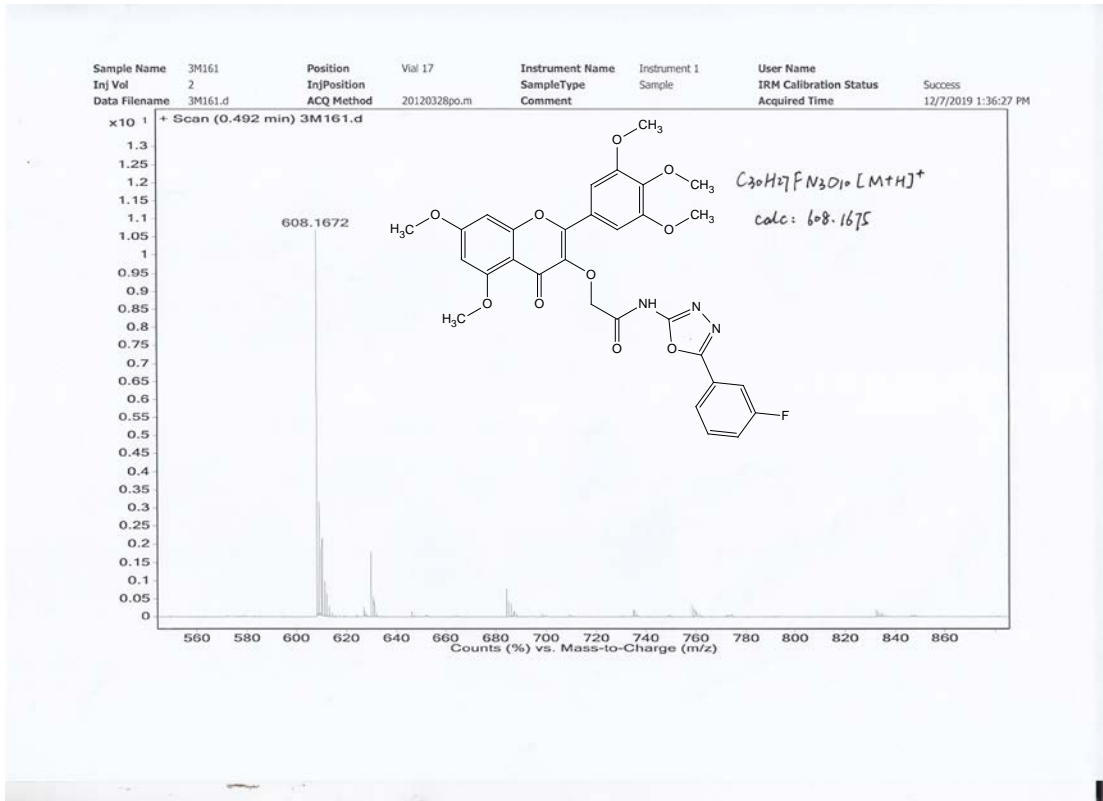
The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A2



A3

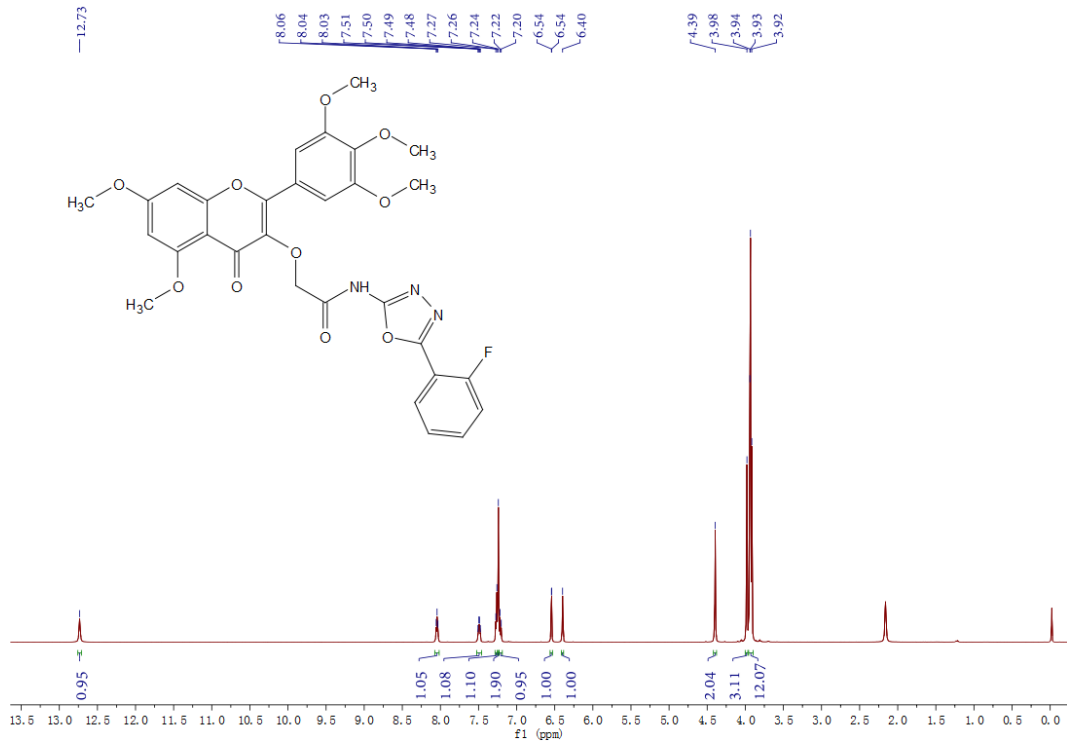


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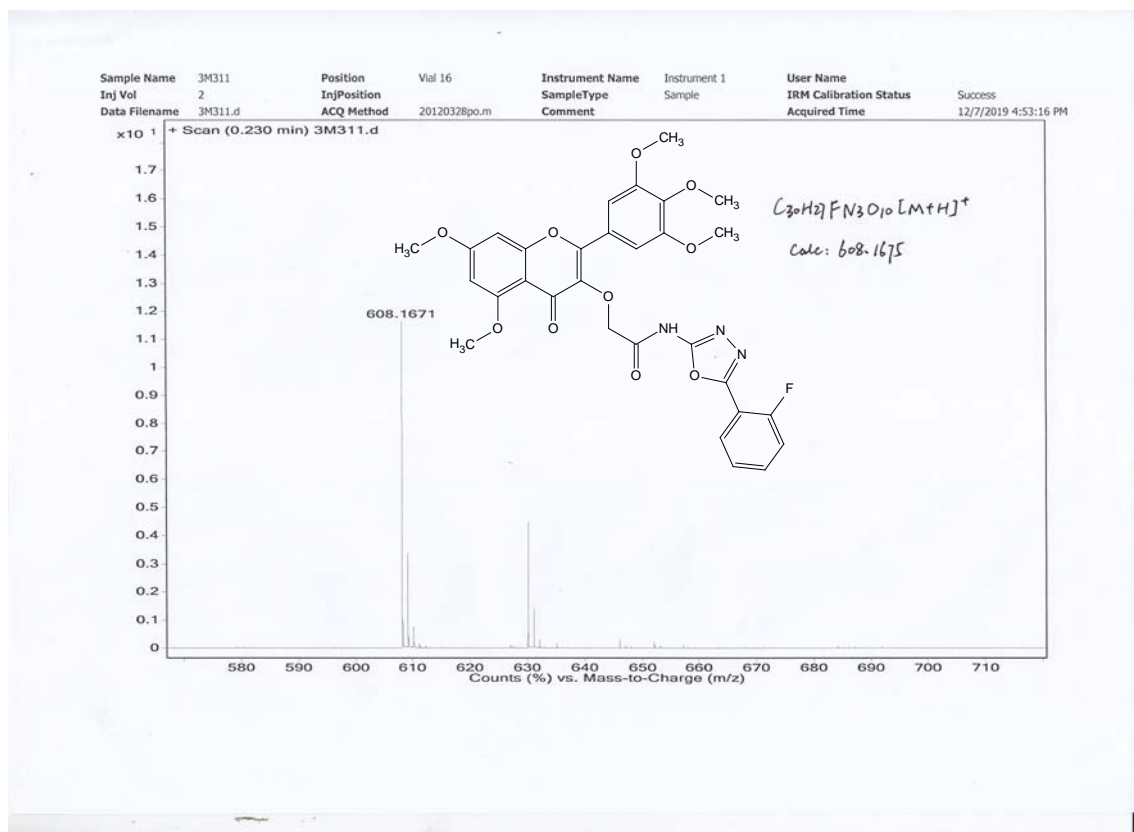
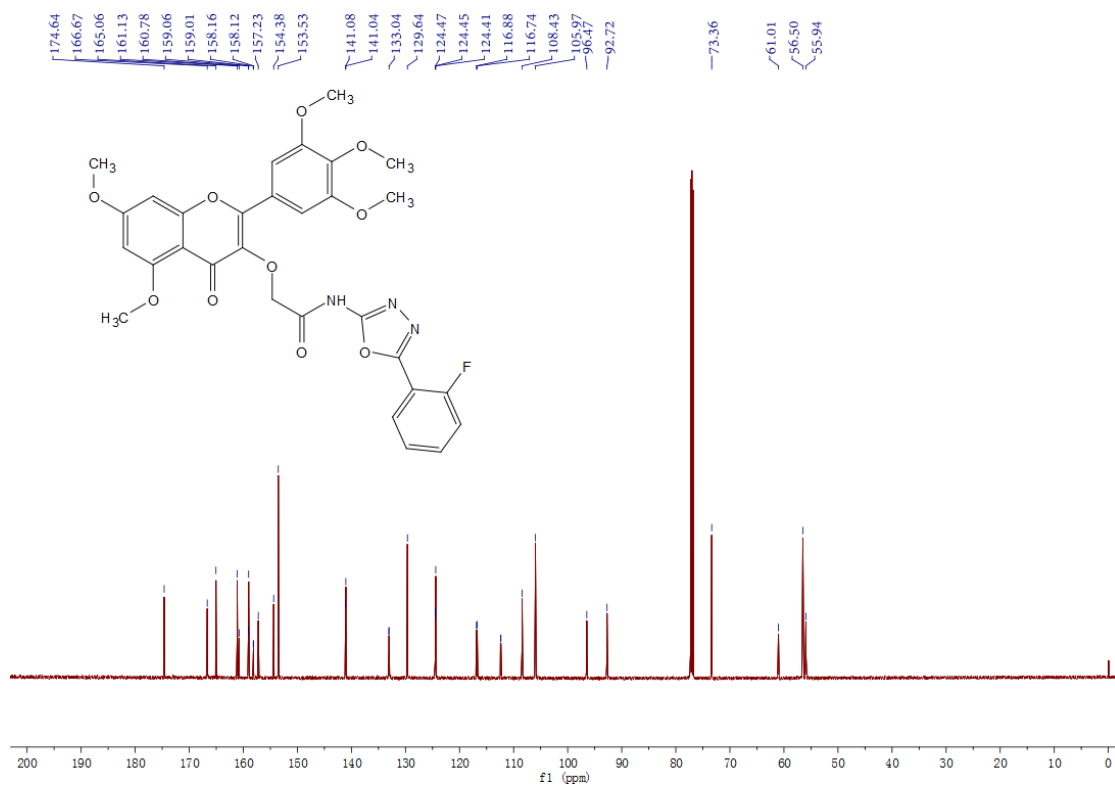


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A3

A4

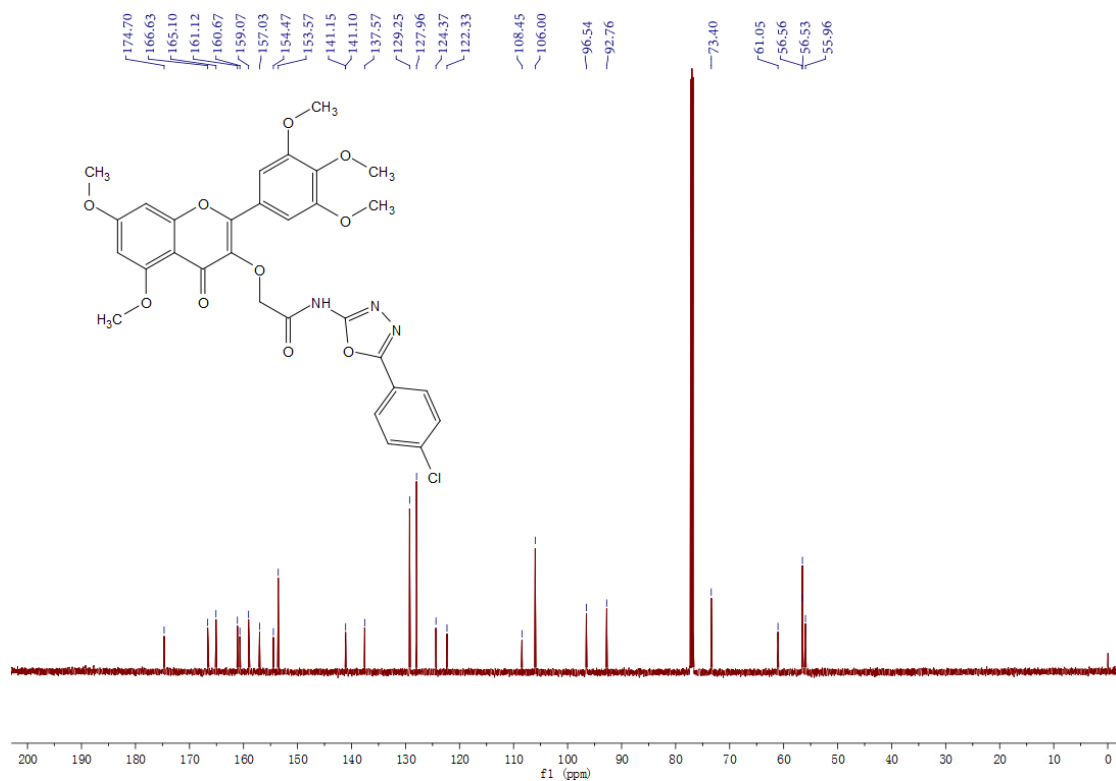
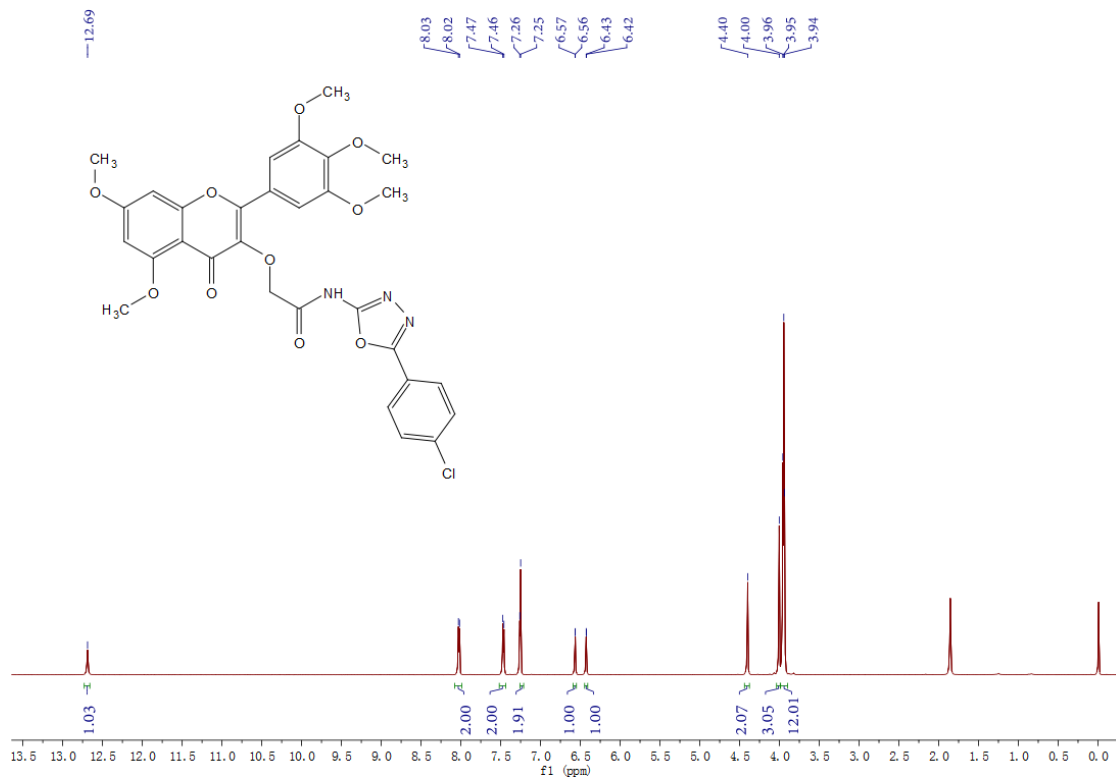


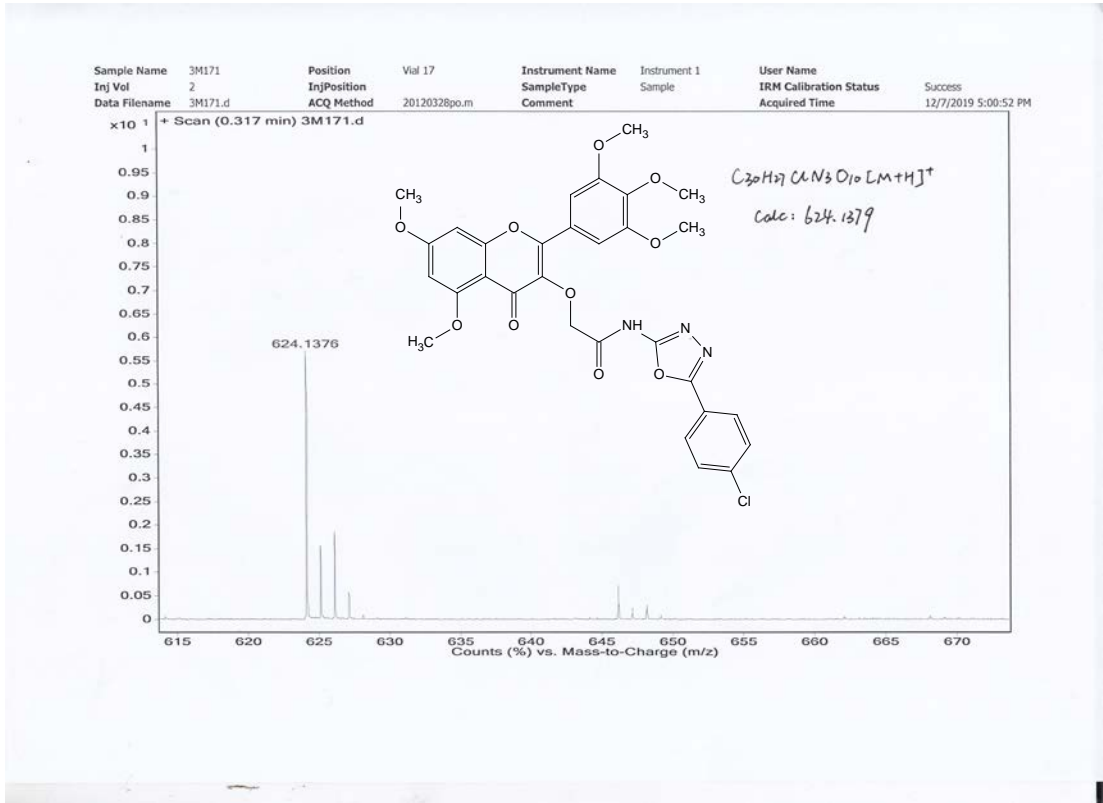
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The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A4

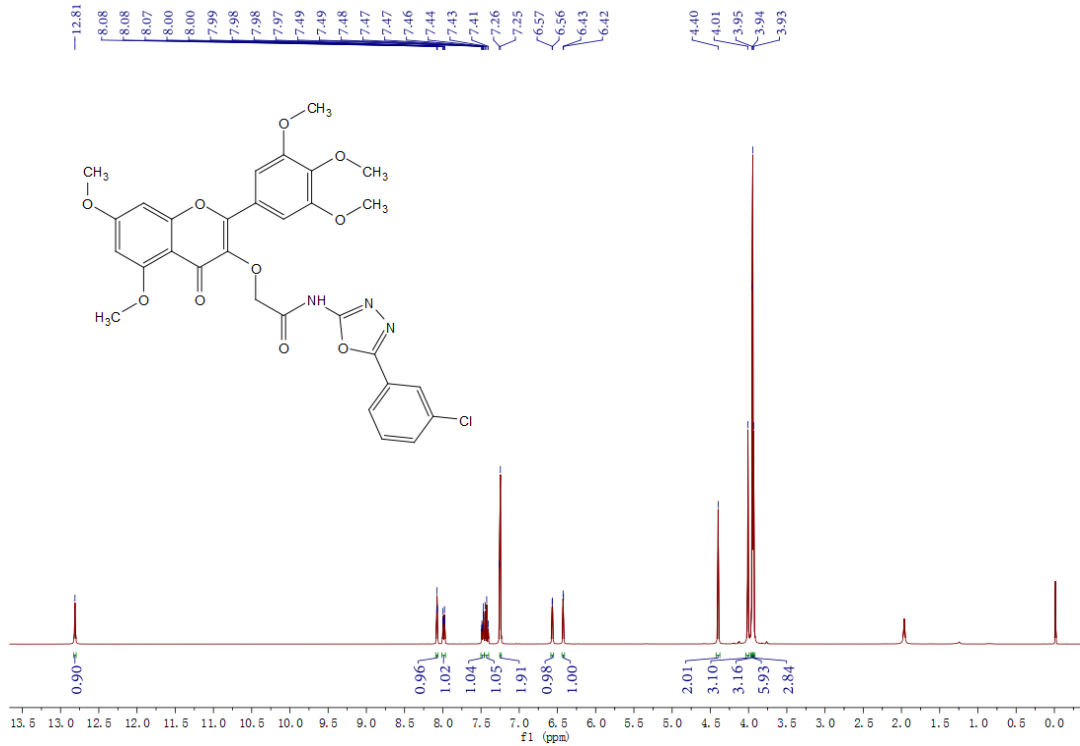
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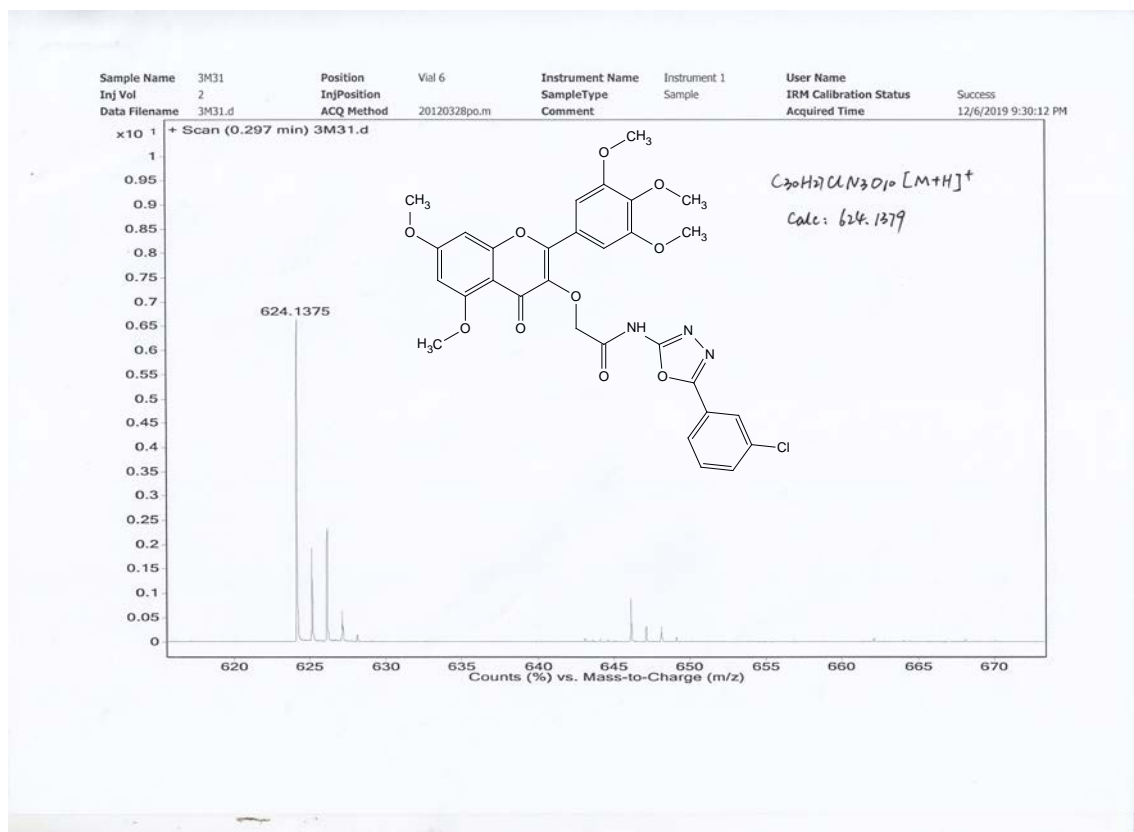
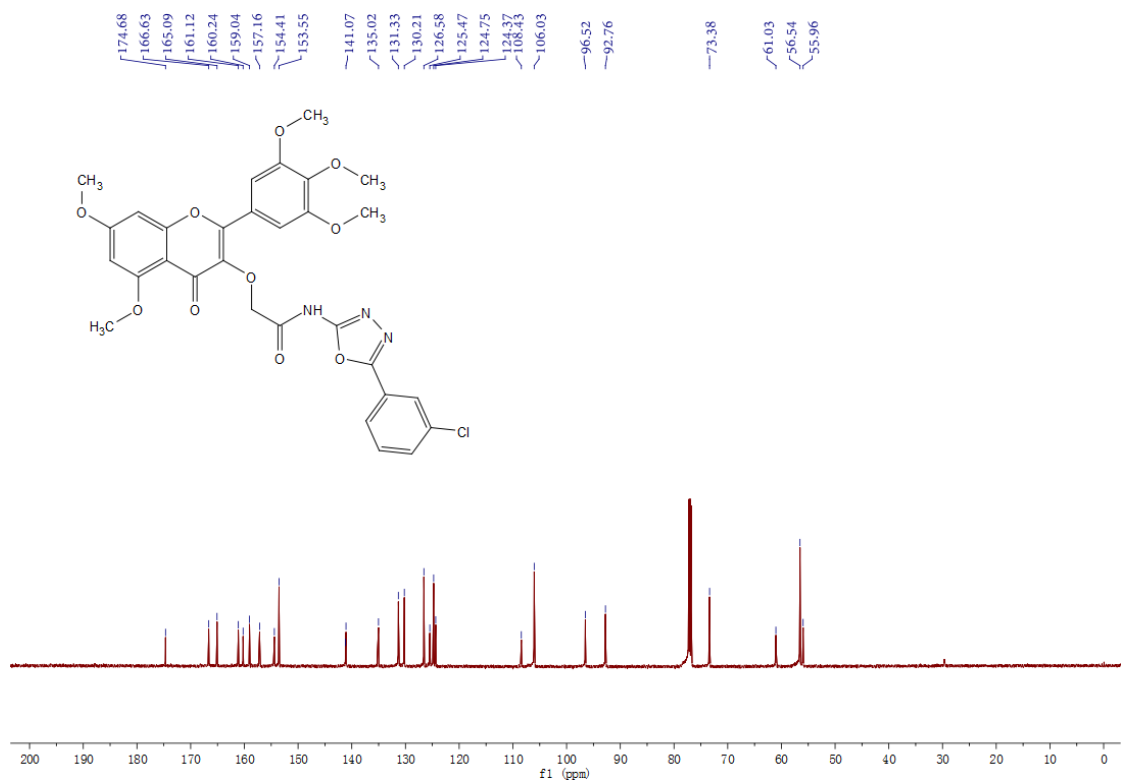


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A5

A6

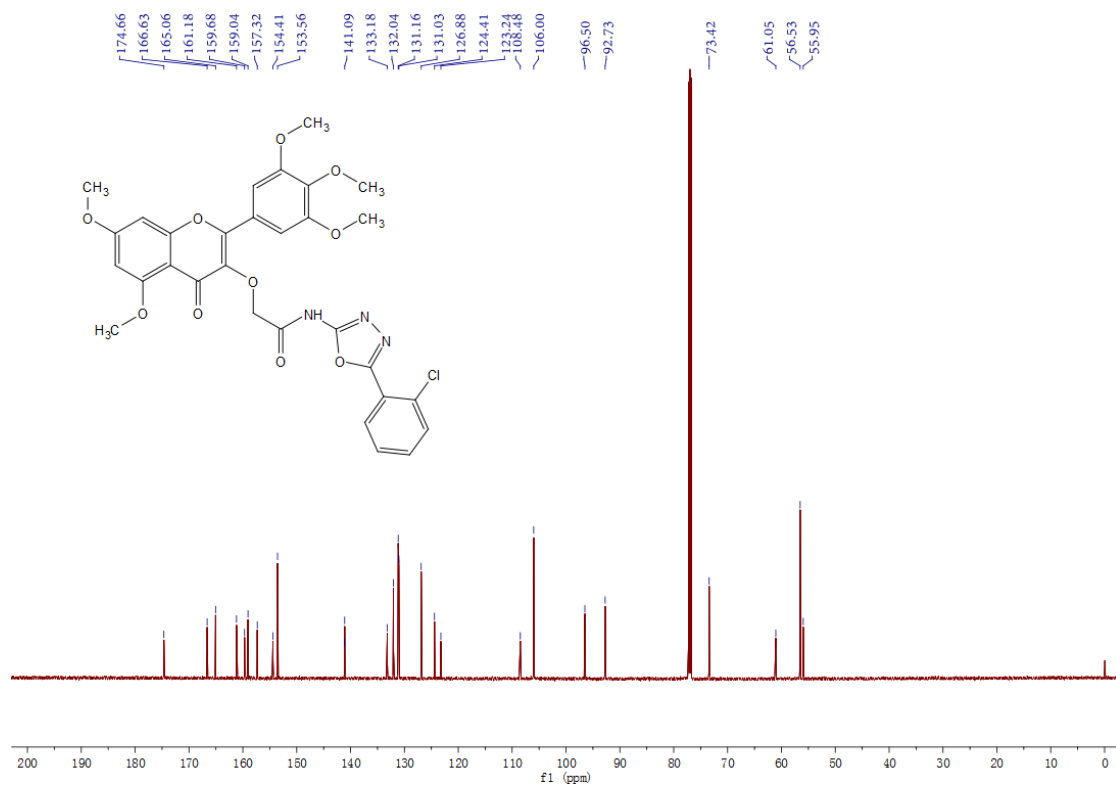
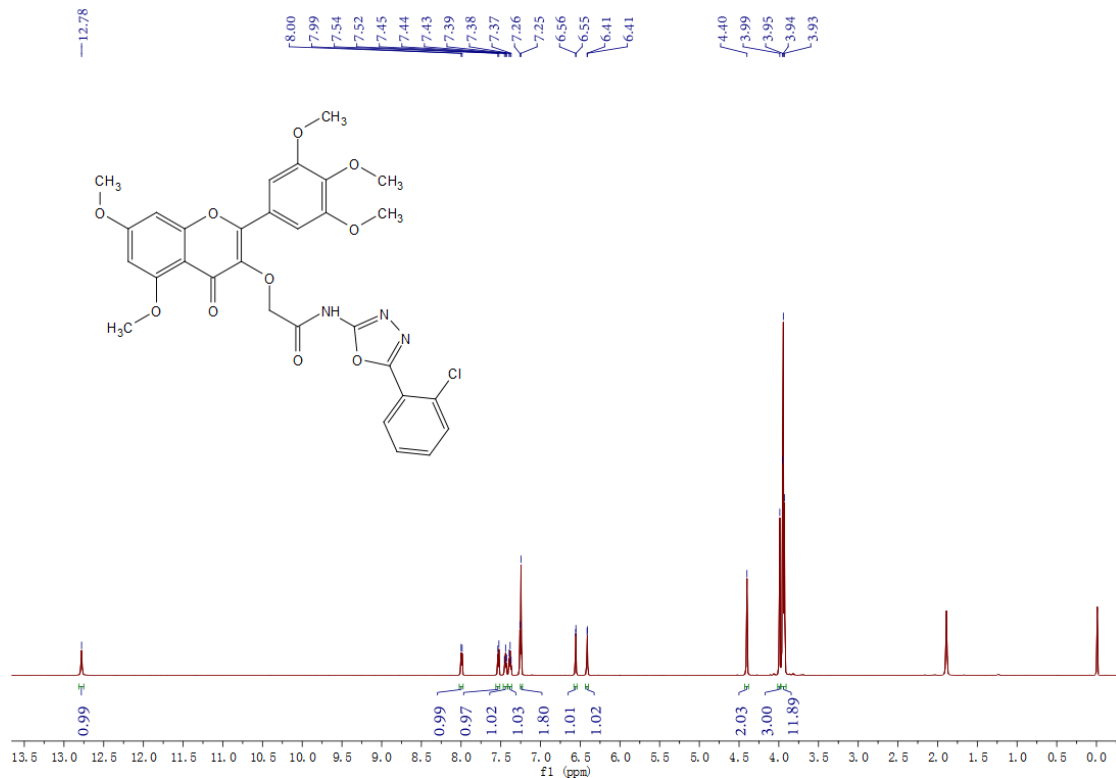


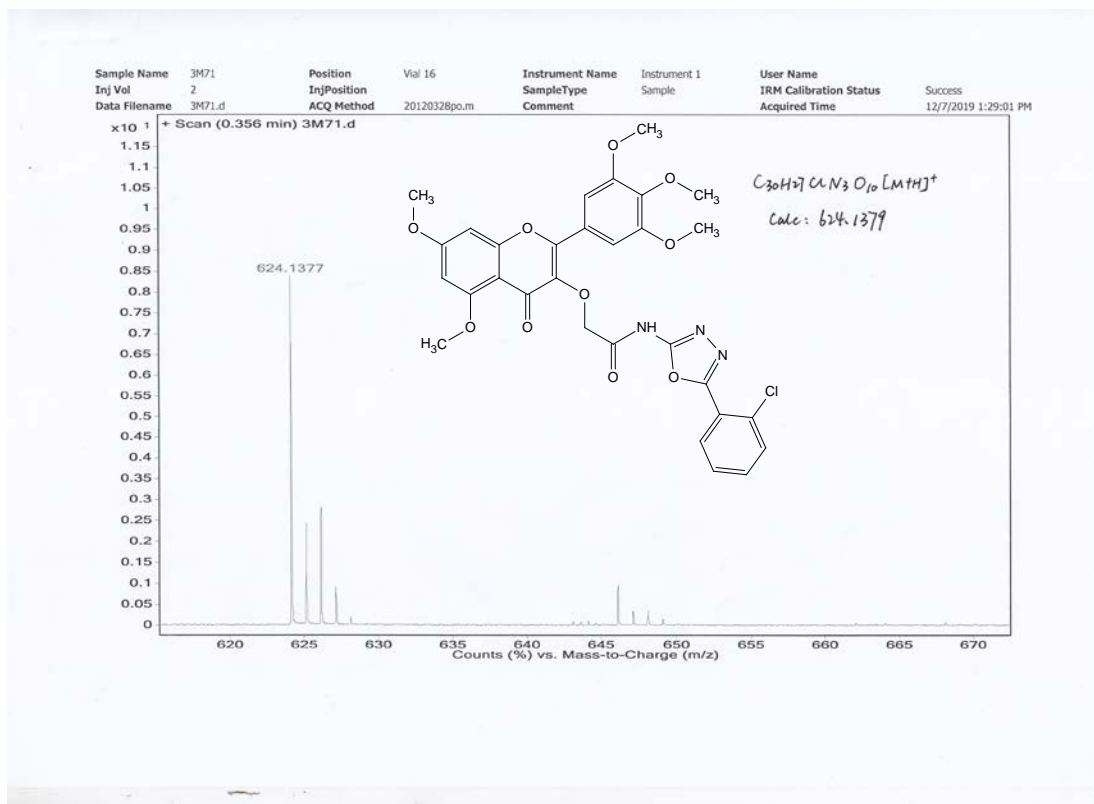
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The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound A6

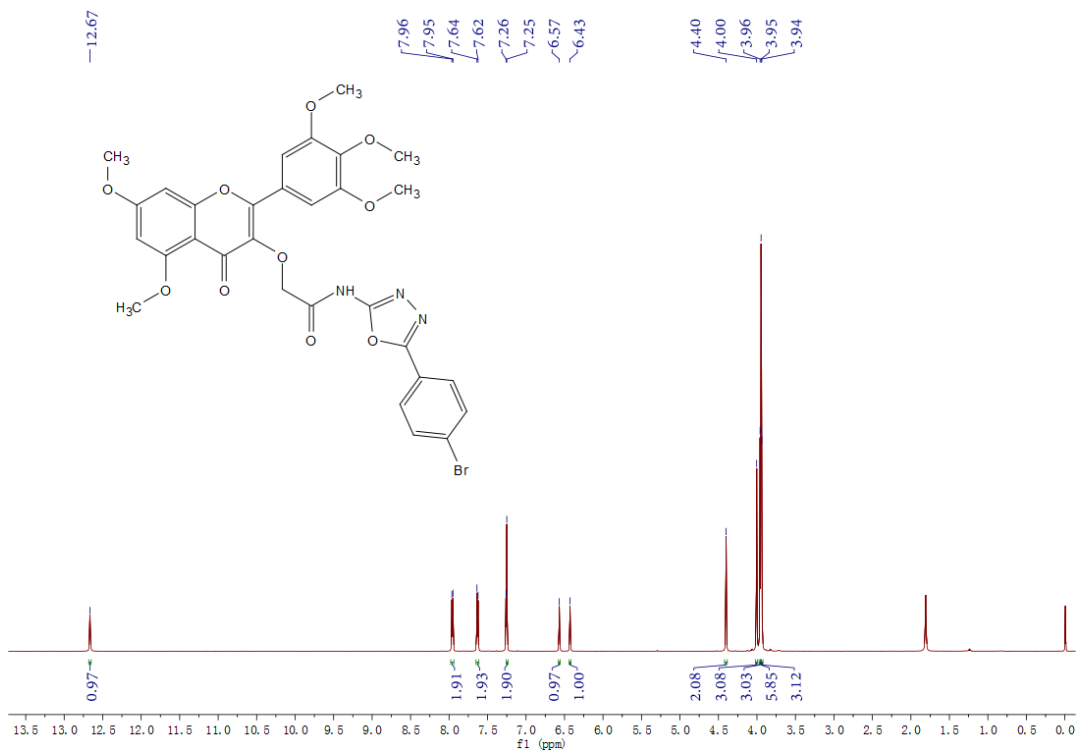
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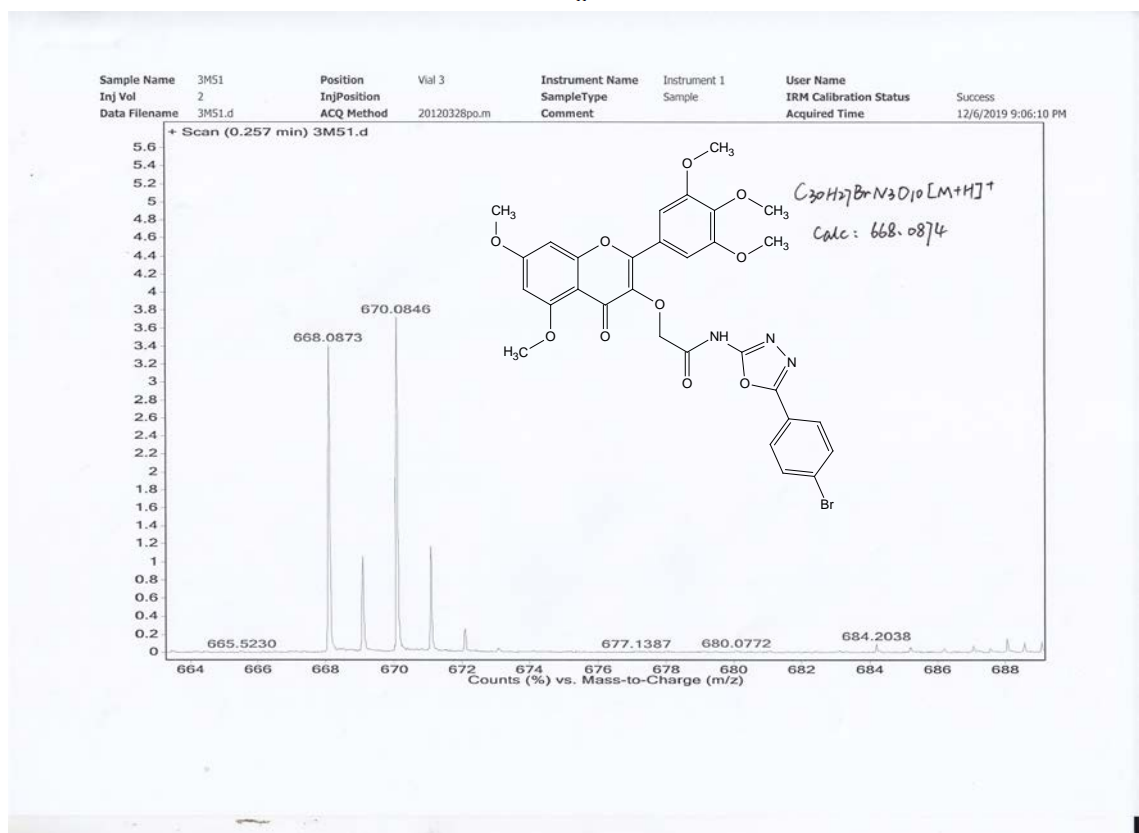
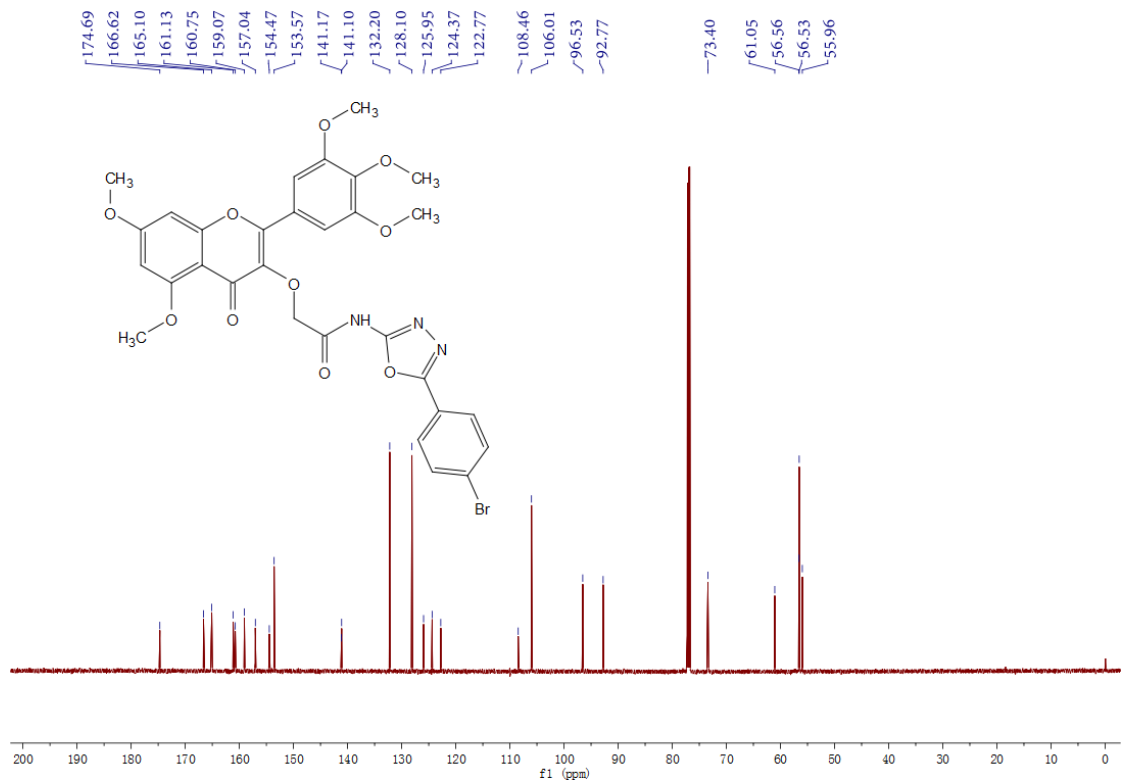
The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound A7

A8



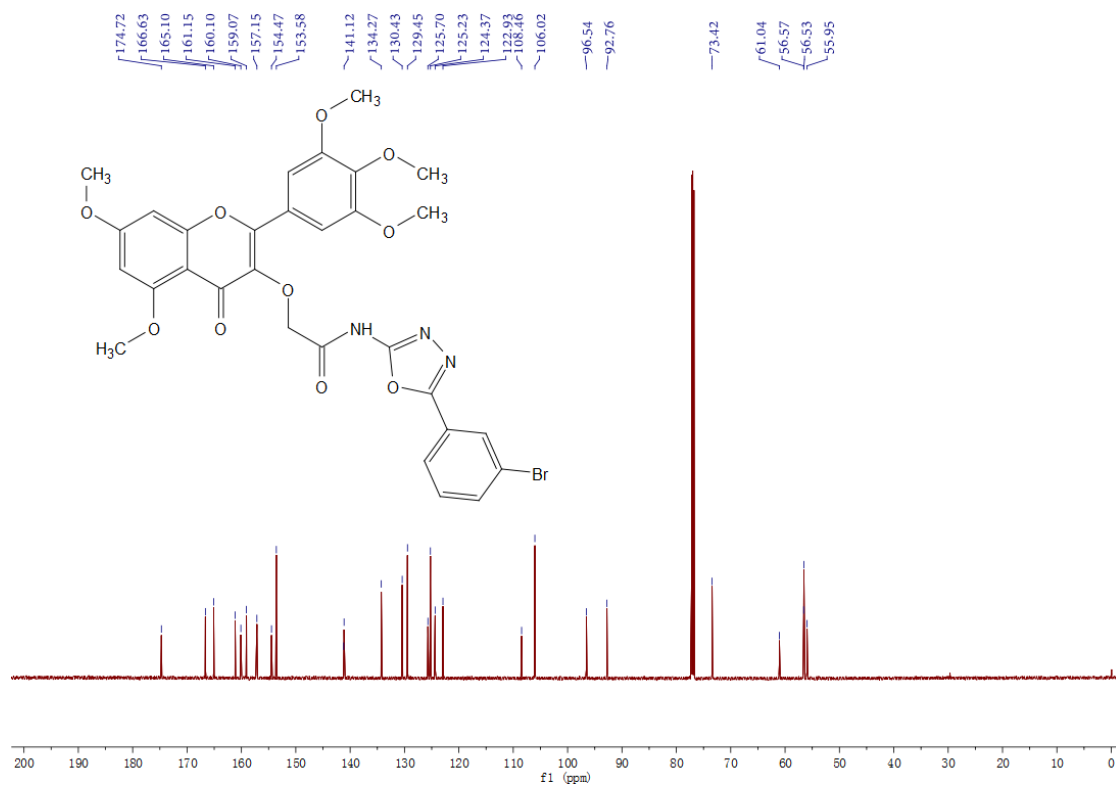
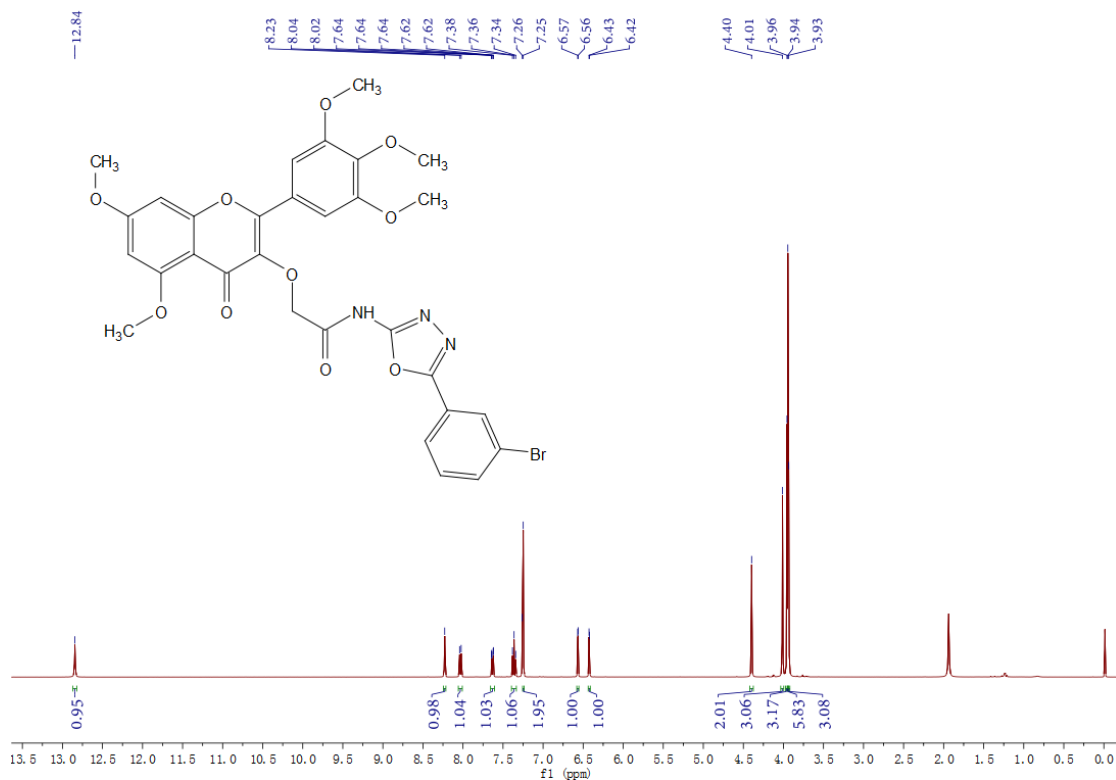
S11

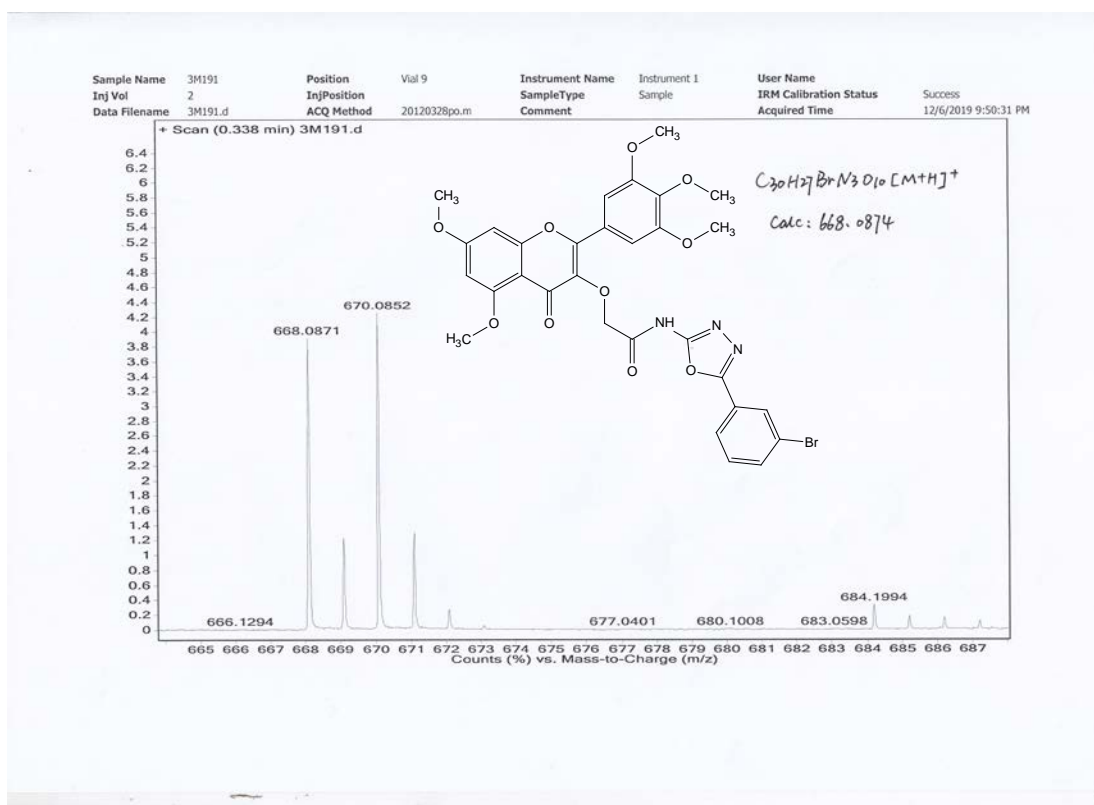




The spectrum of <sup>1</sup>H NMR, <sup>13</sup>C NMR and HRMS of compound A8

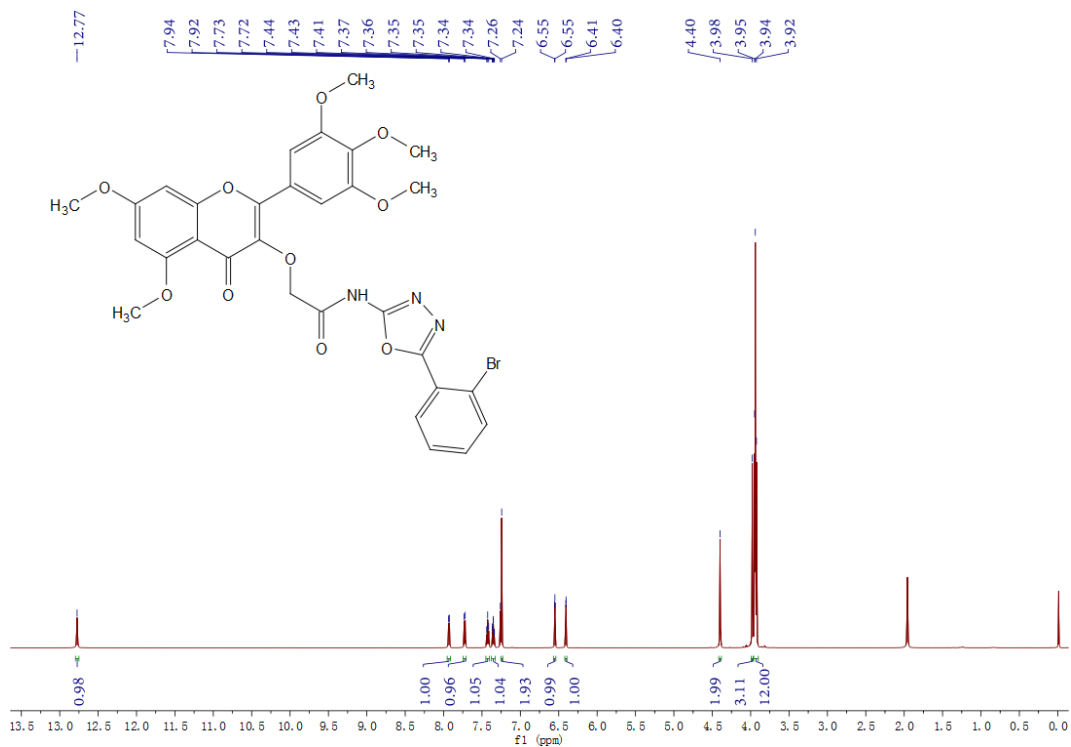
A9



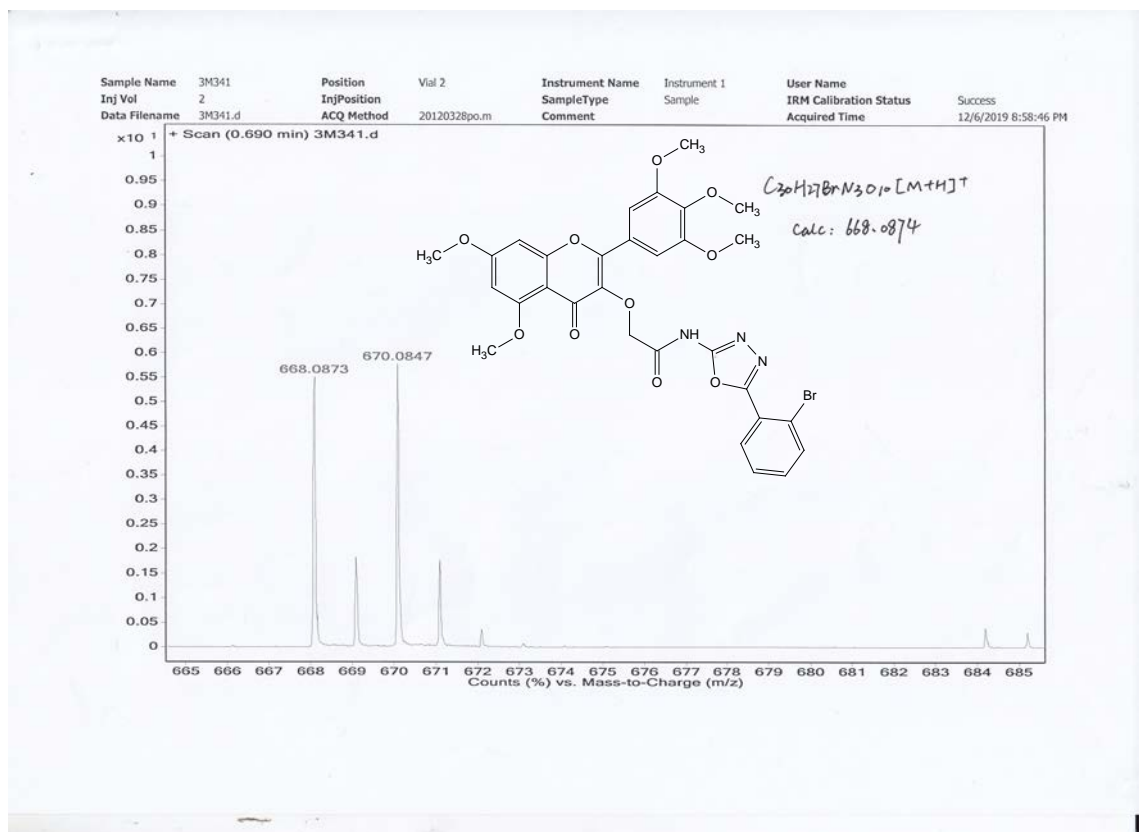
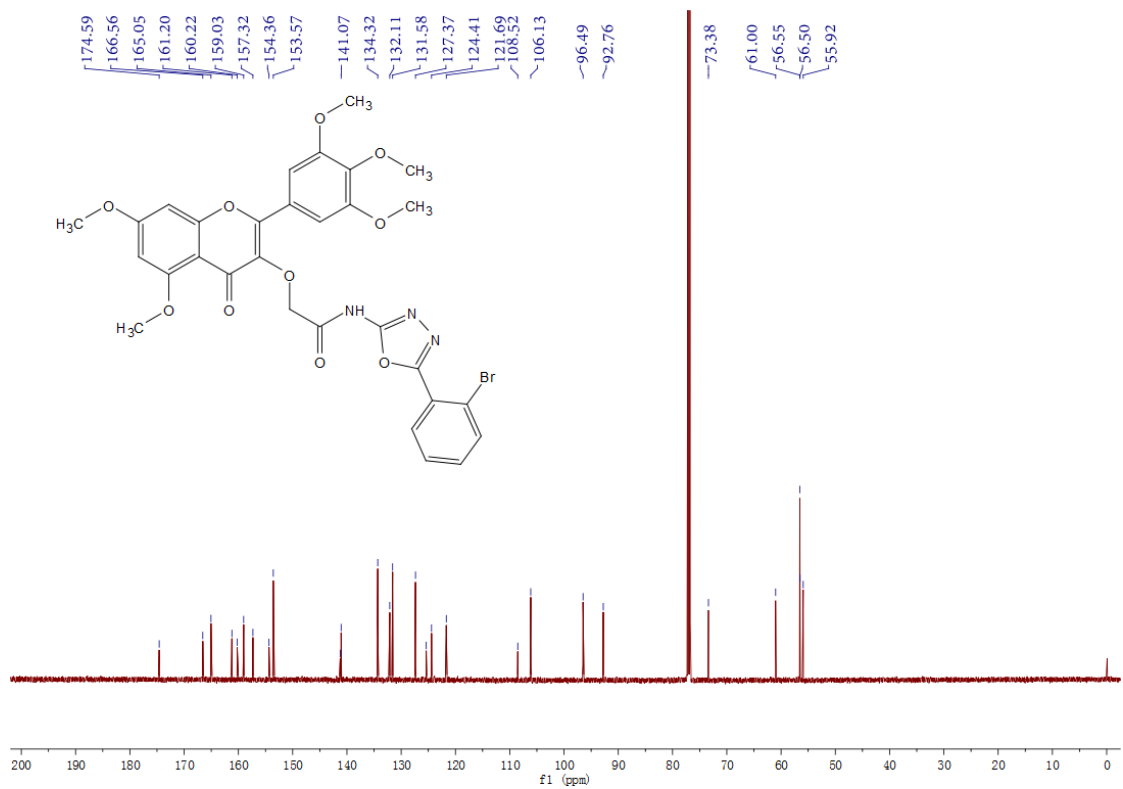


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A9

A10

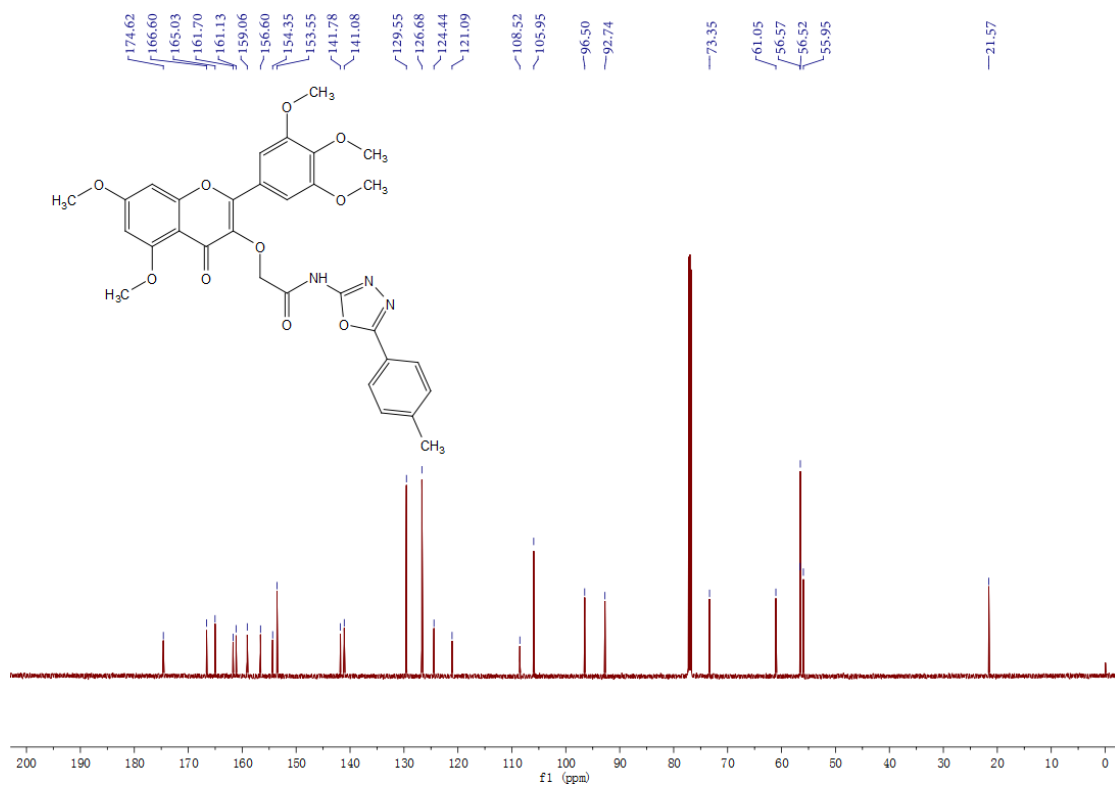
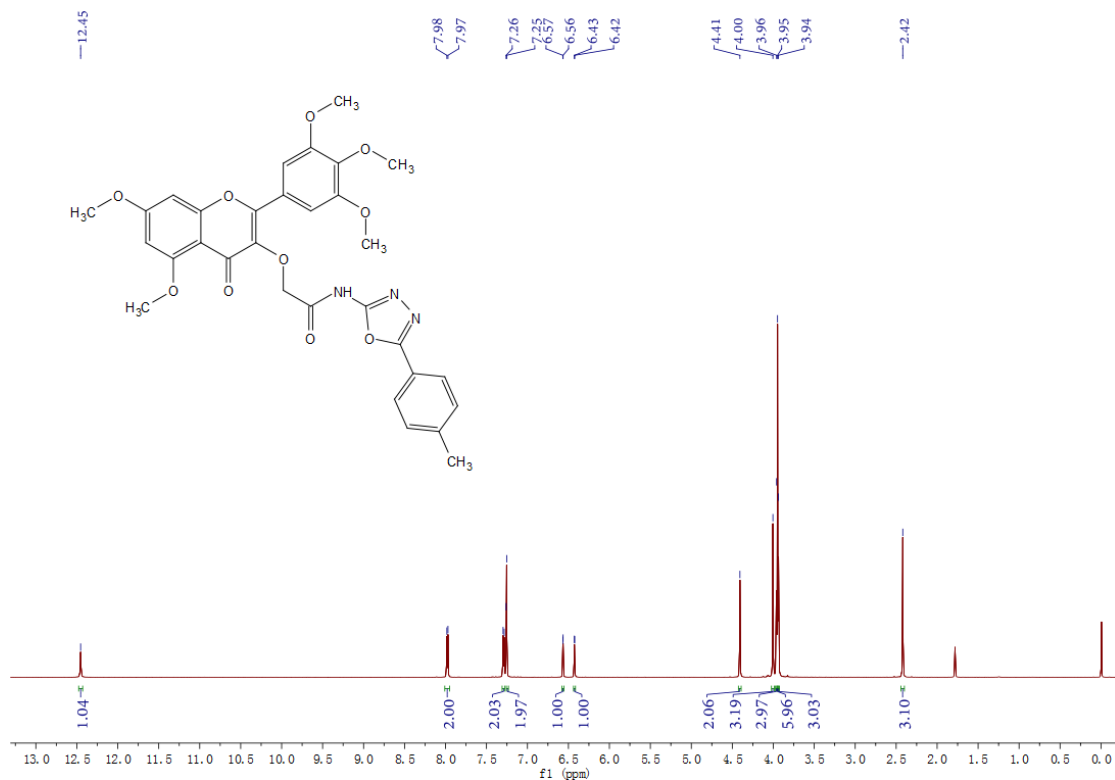


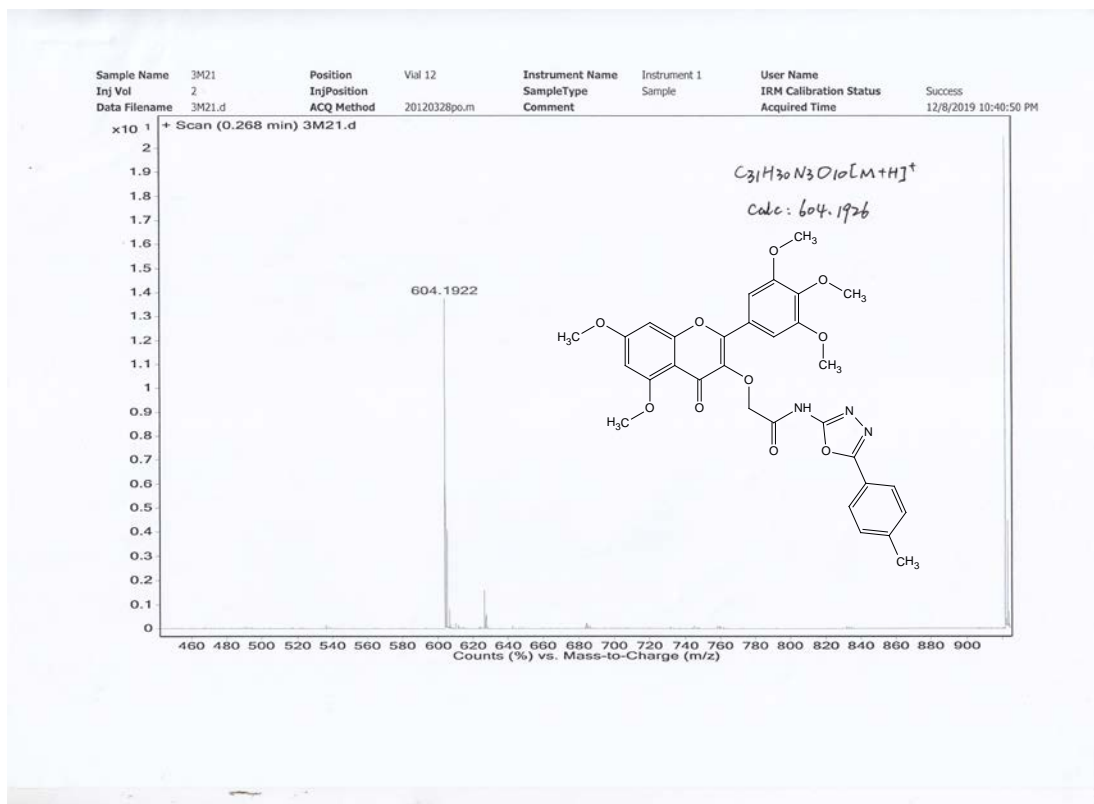
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The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound A10

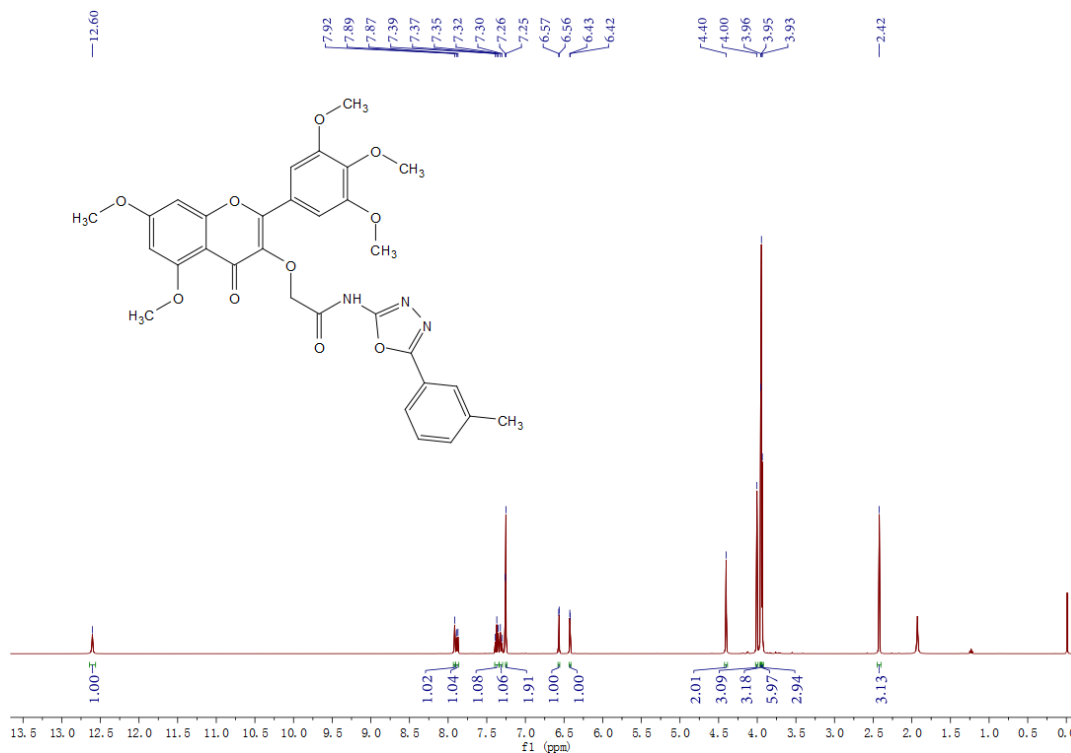
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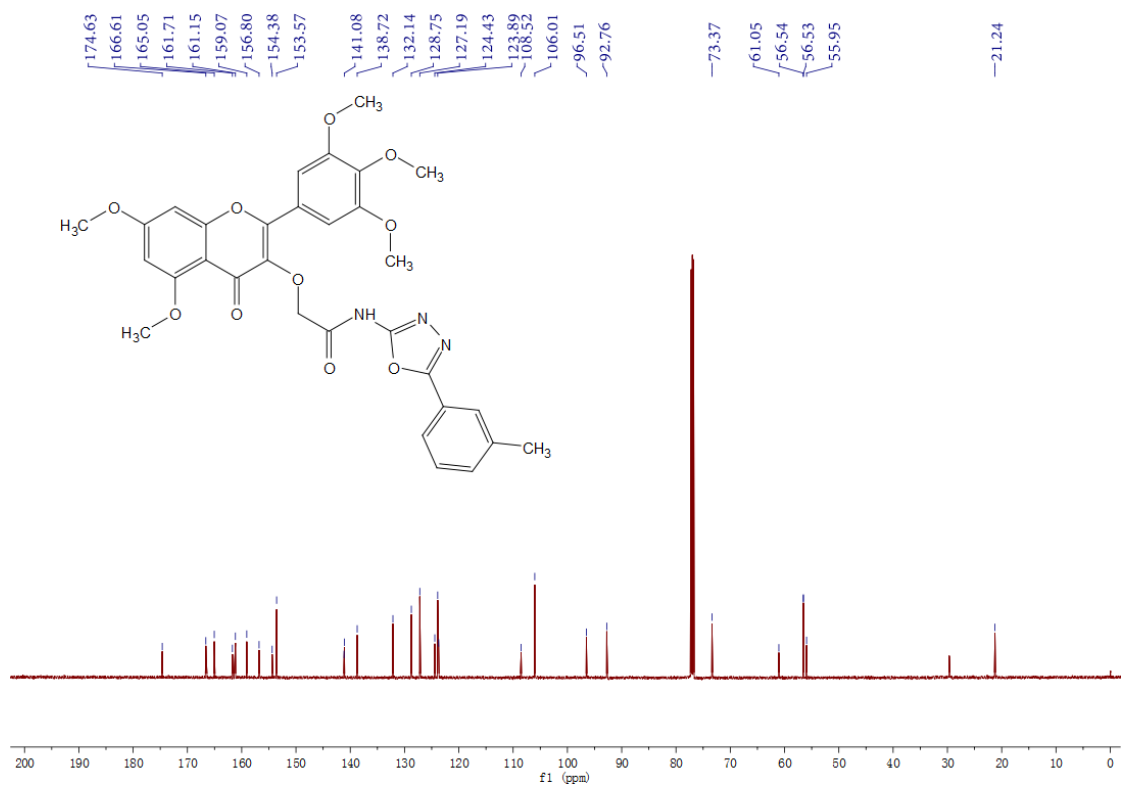


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A11

A12

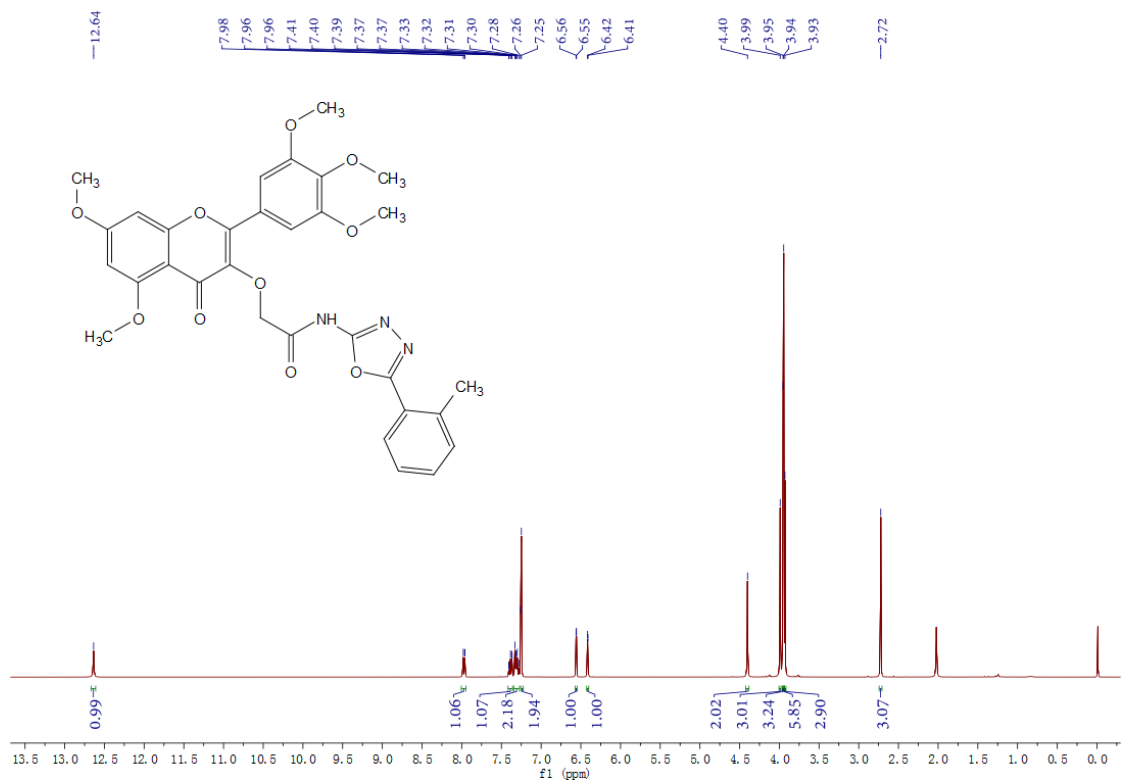


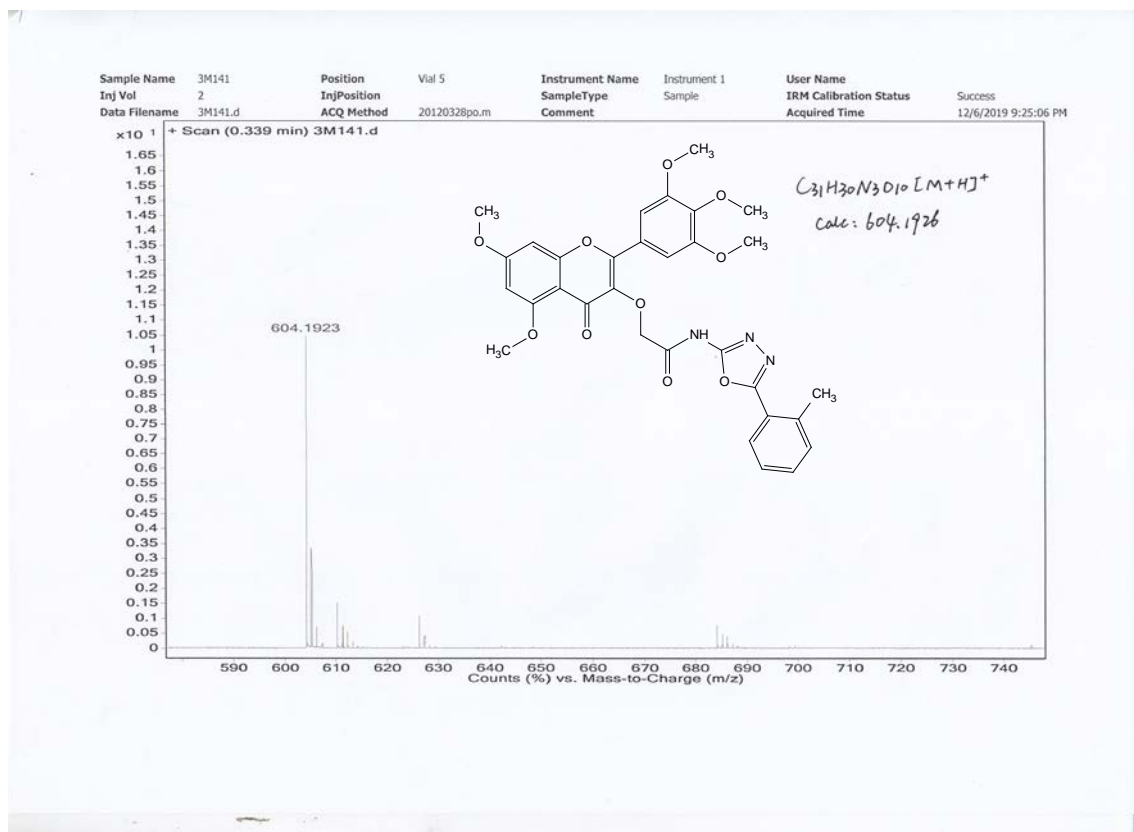
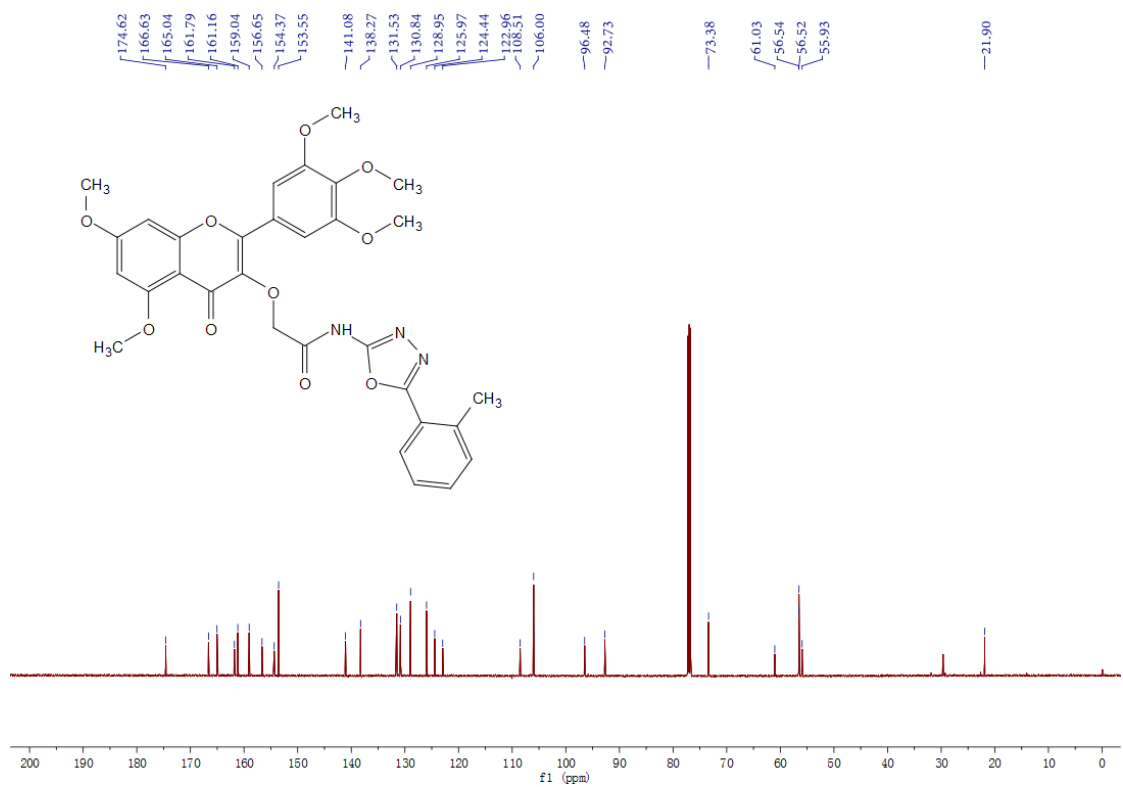
S17



The spectrum of  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR of compound A12

### A13

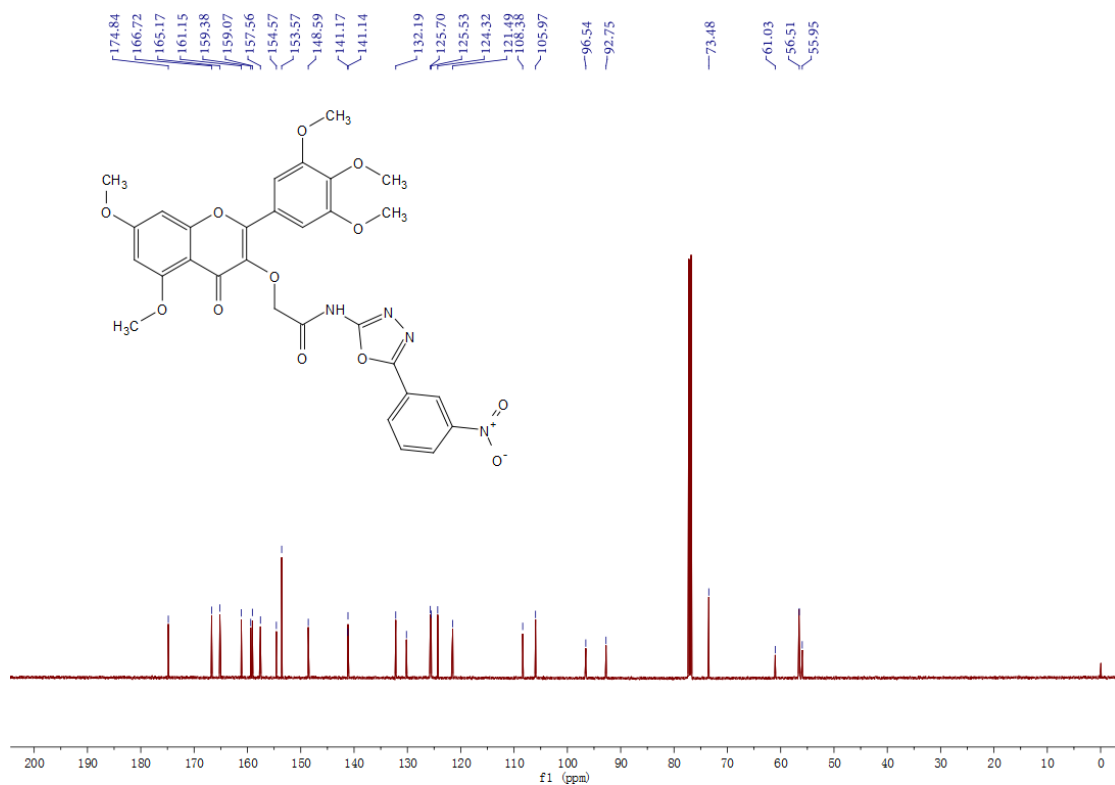
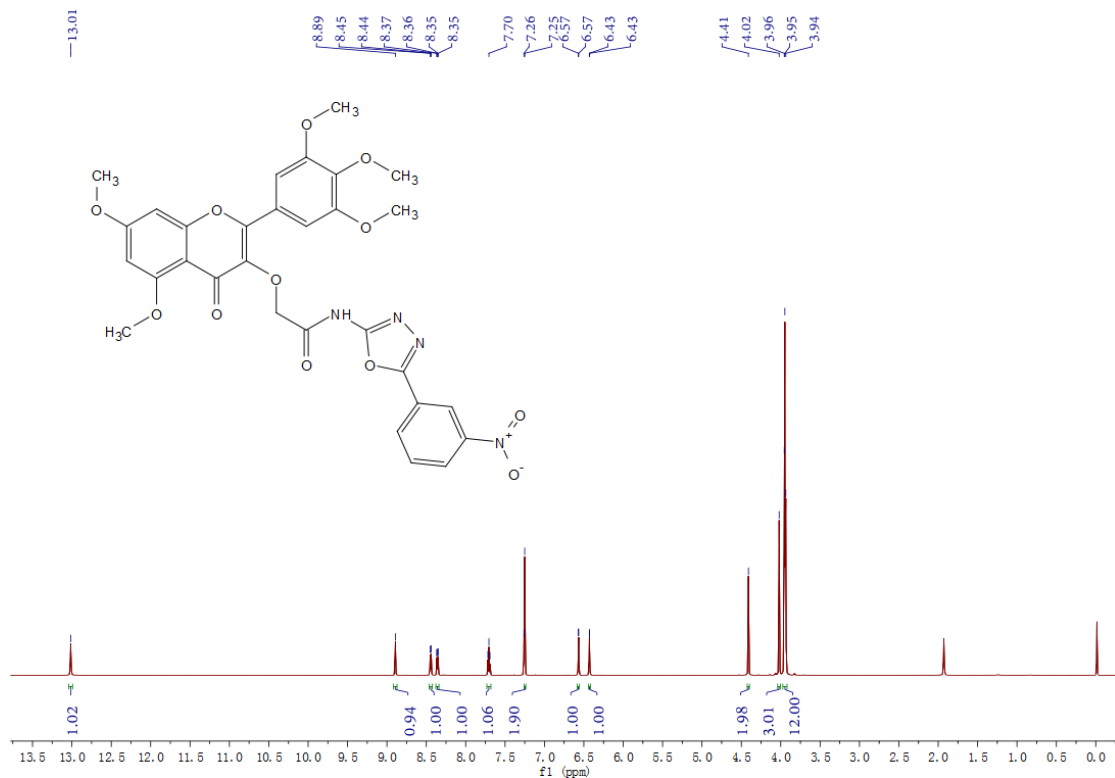


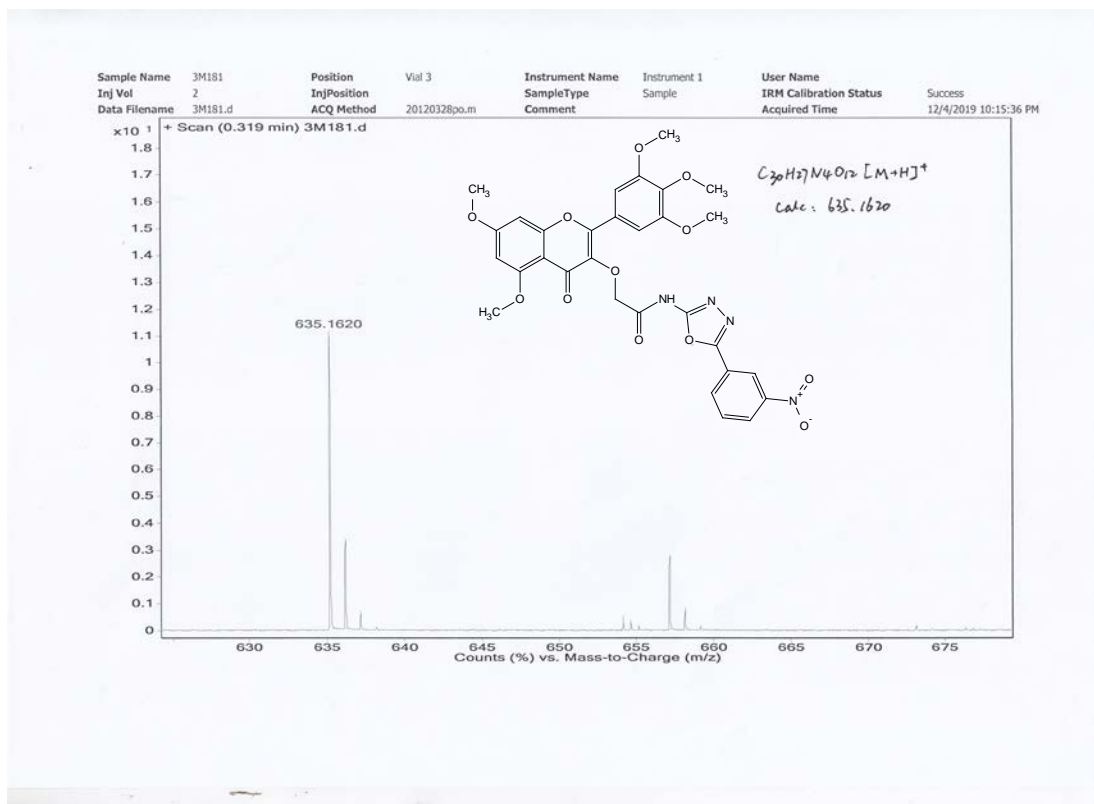


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A13



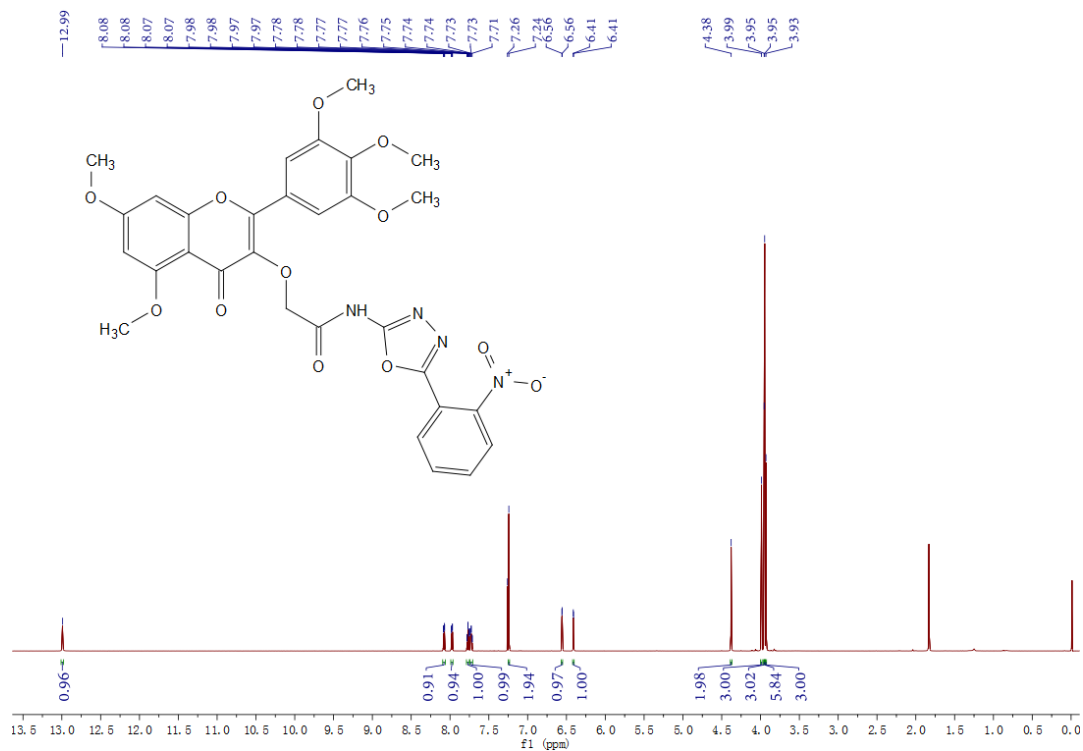
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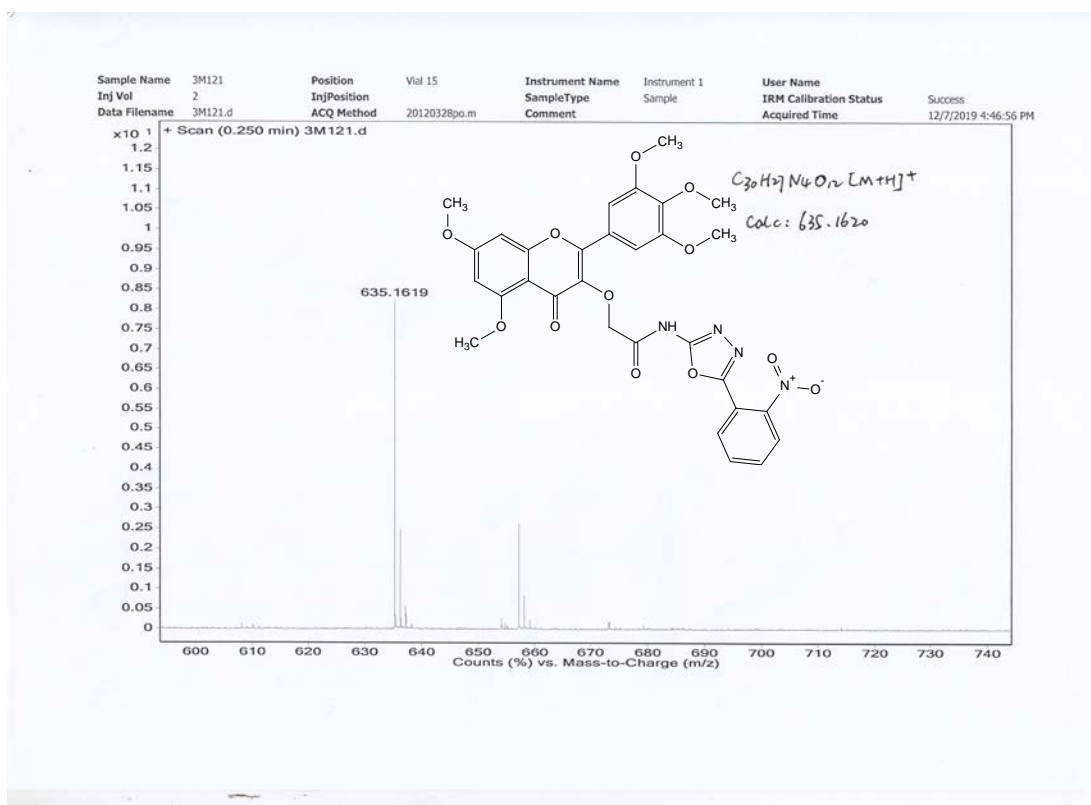


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A14

A15

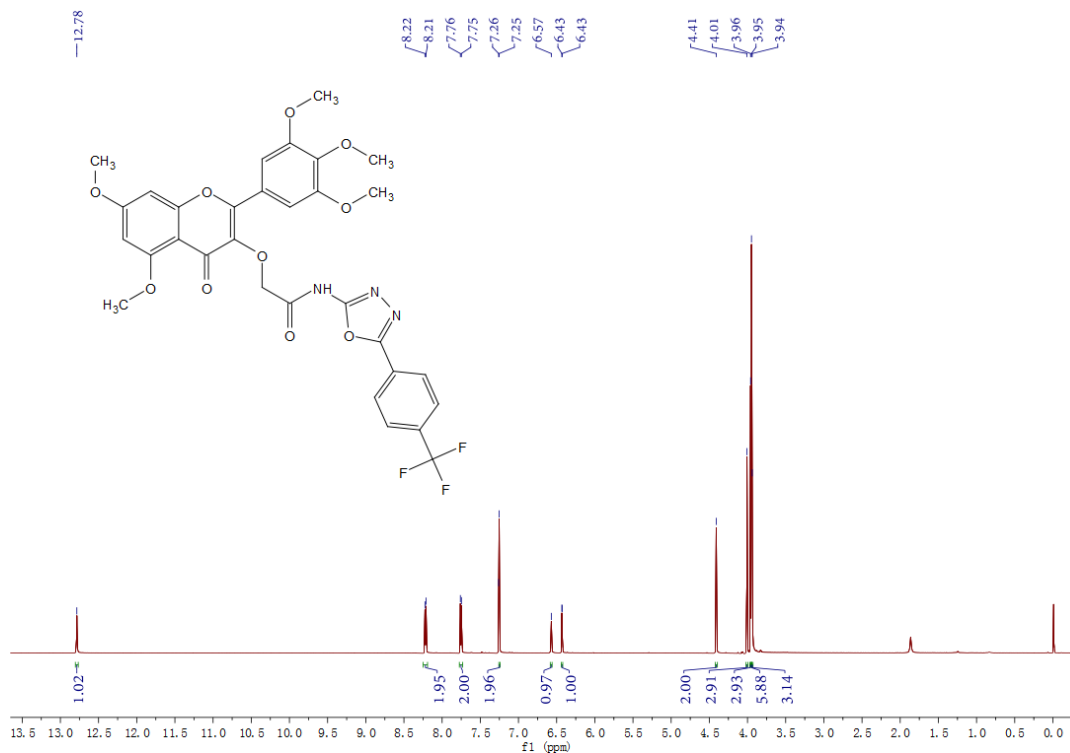


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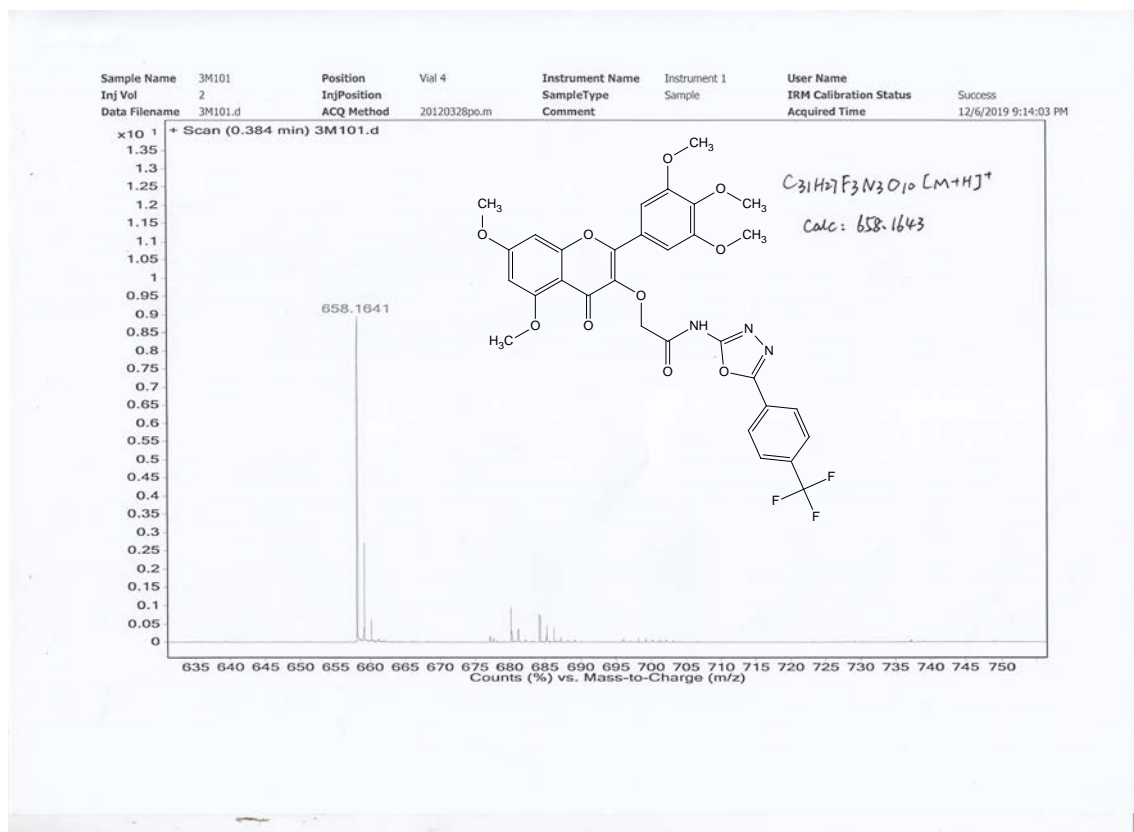
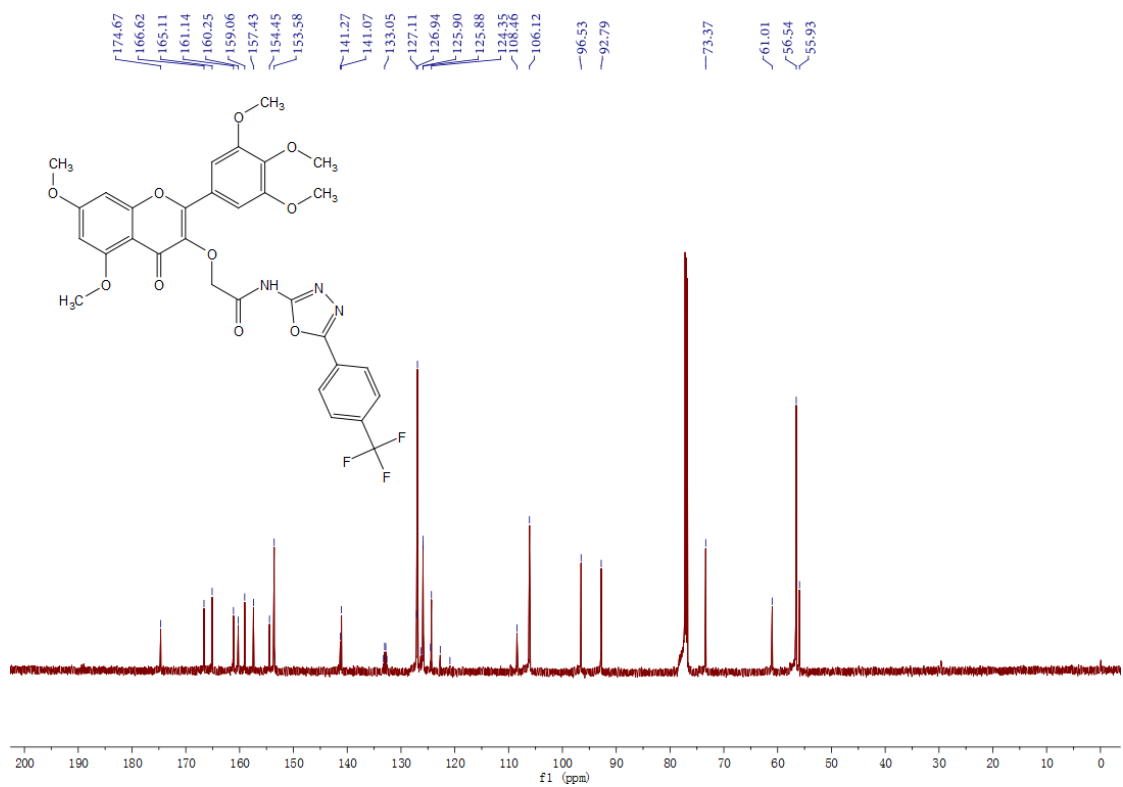


The spectrum of  $^1H$  NMR and HRMS of compound A15

A16

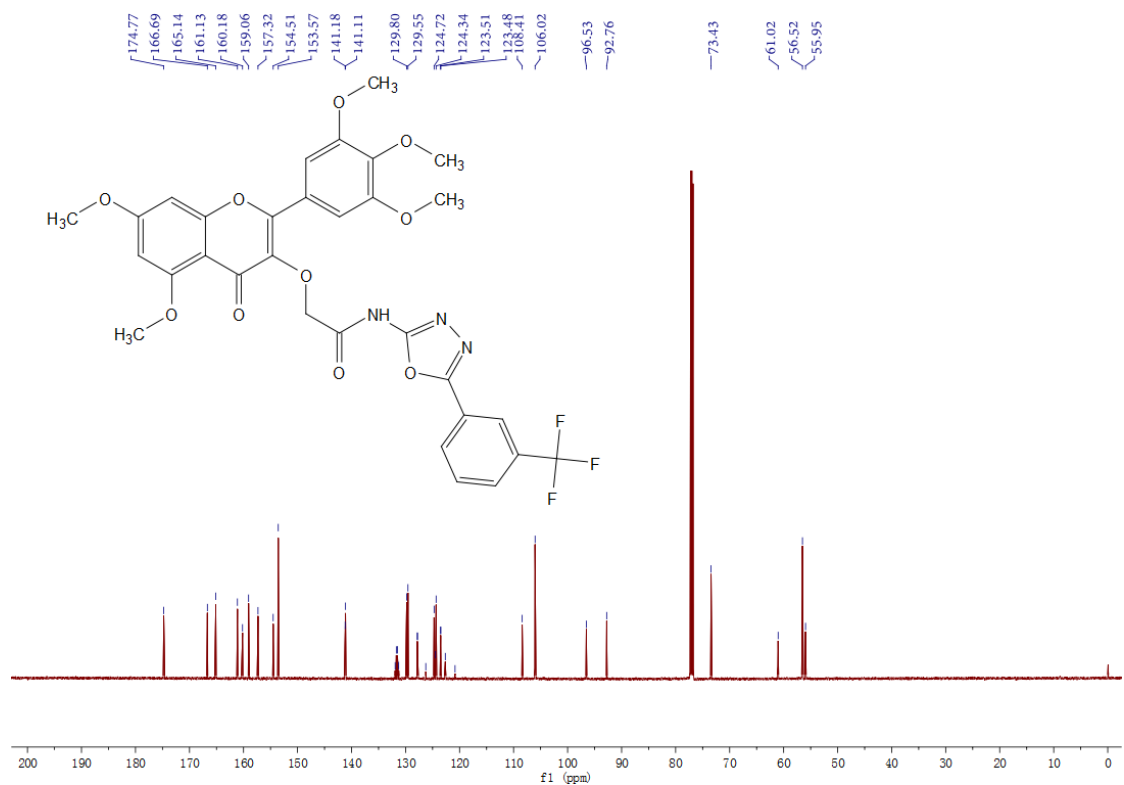
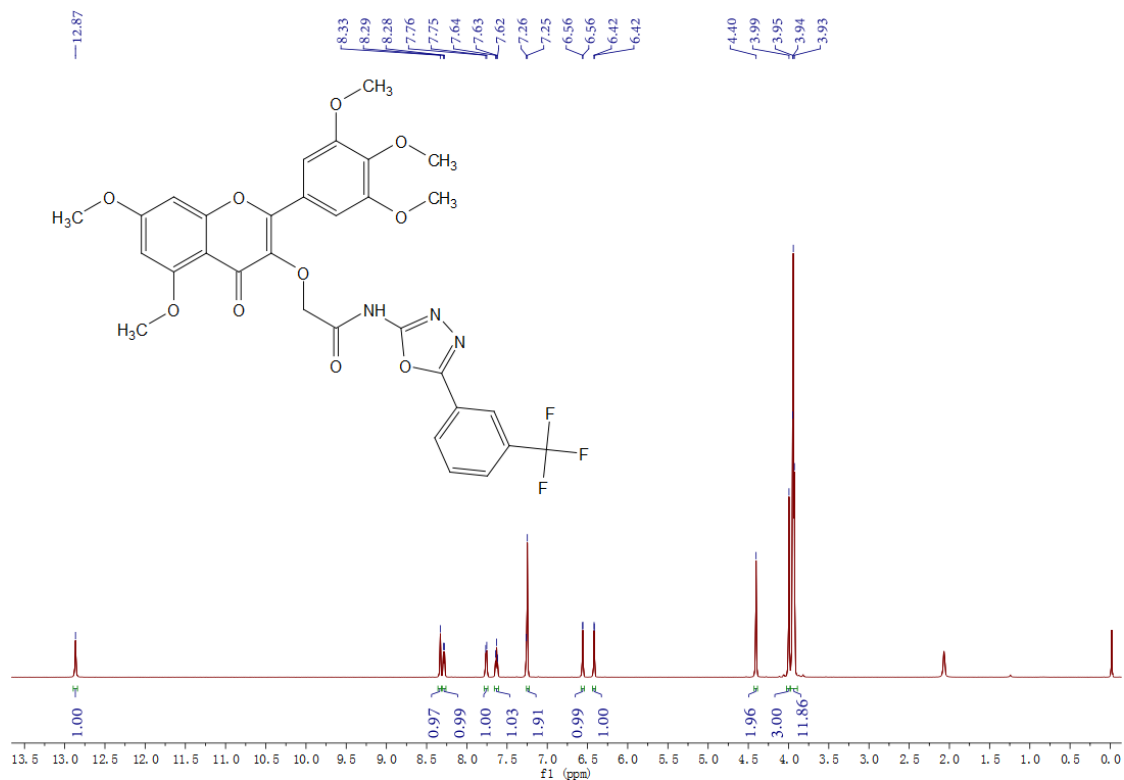


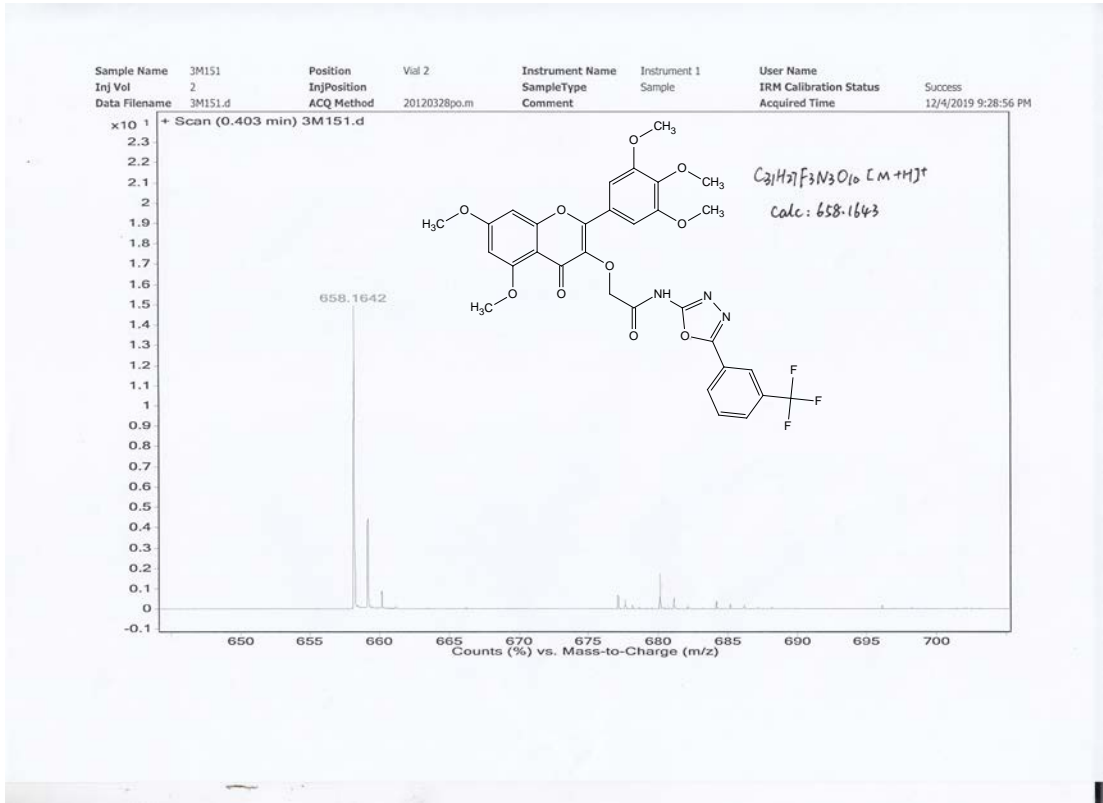
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The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A16

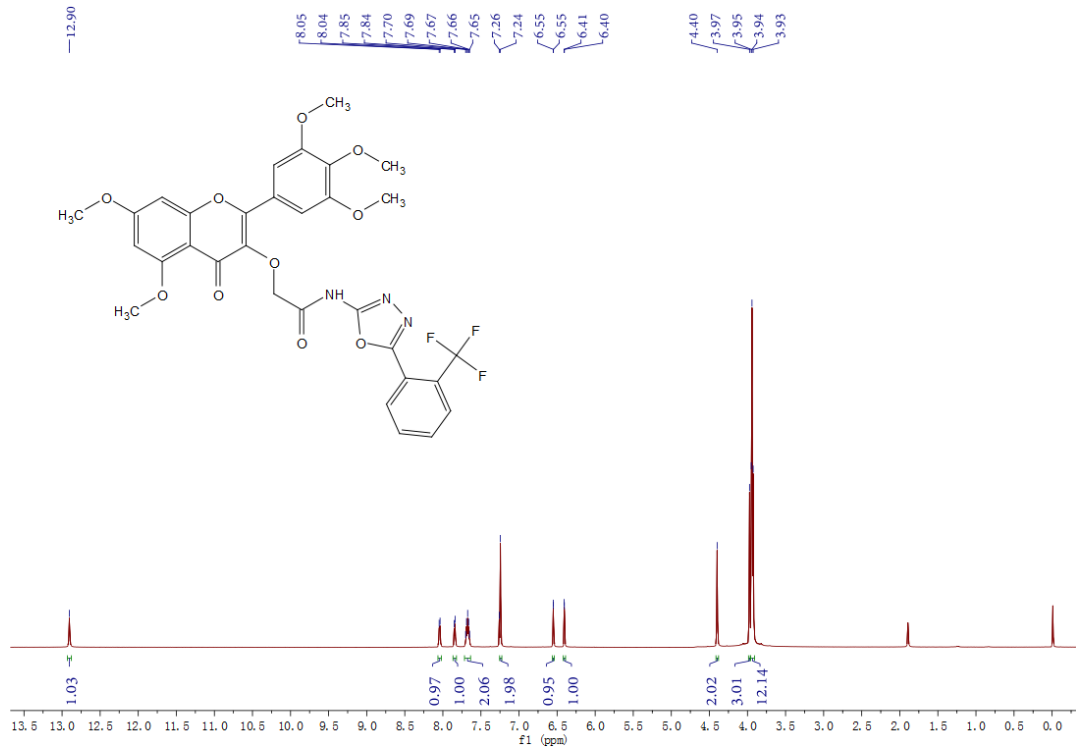
A17



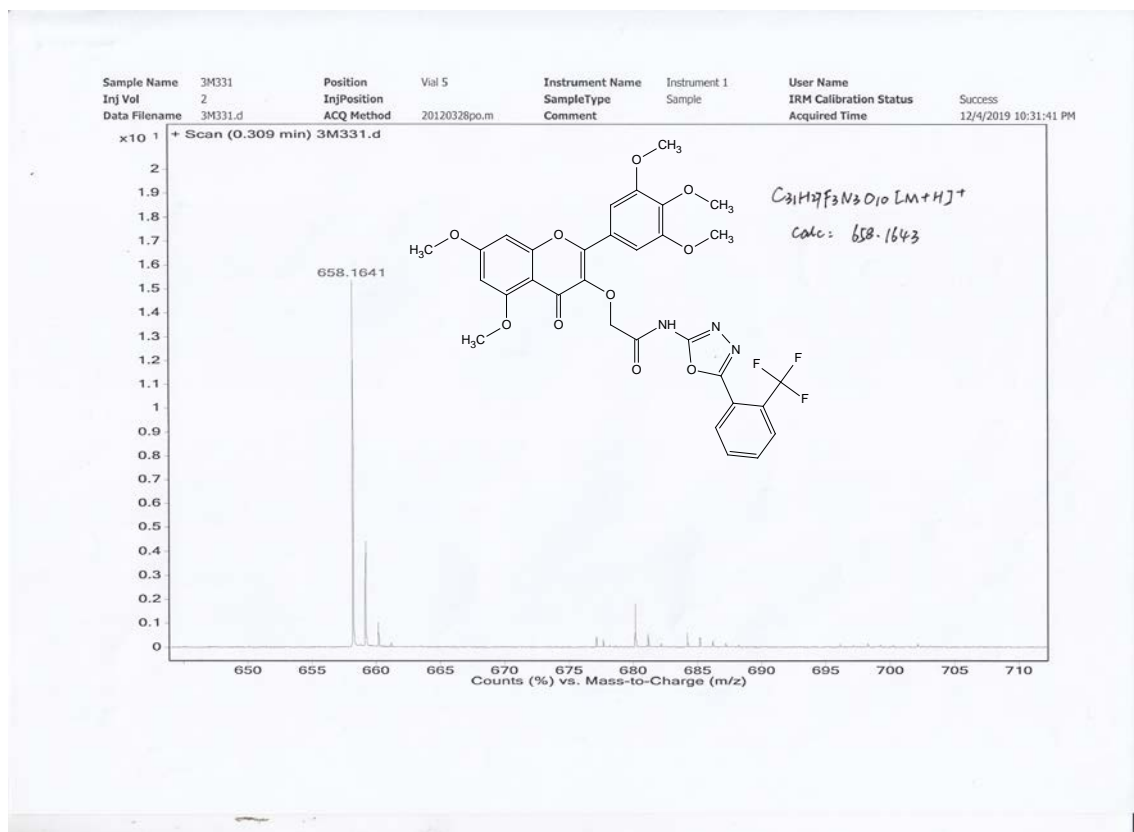
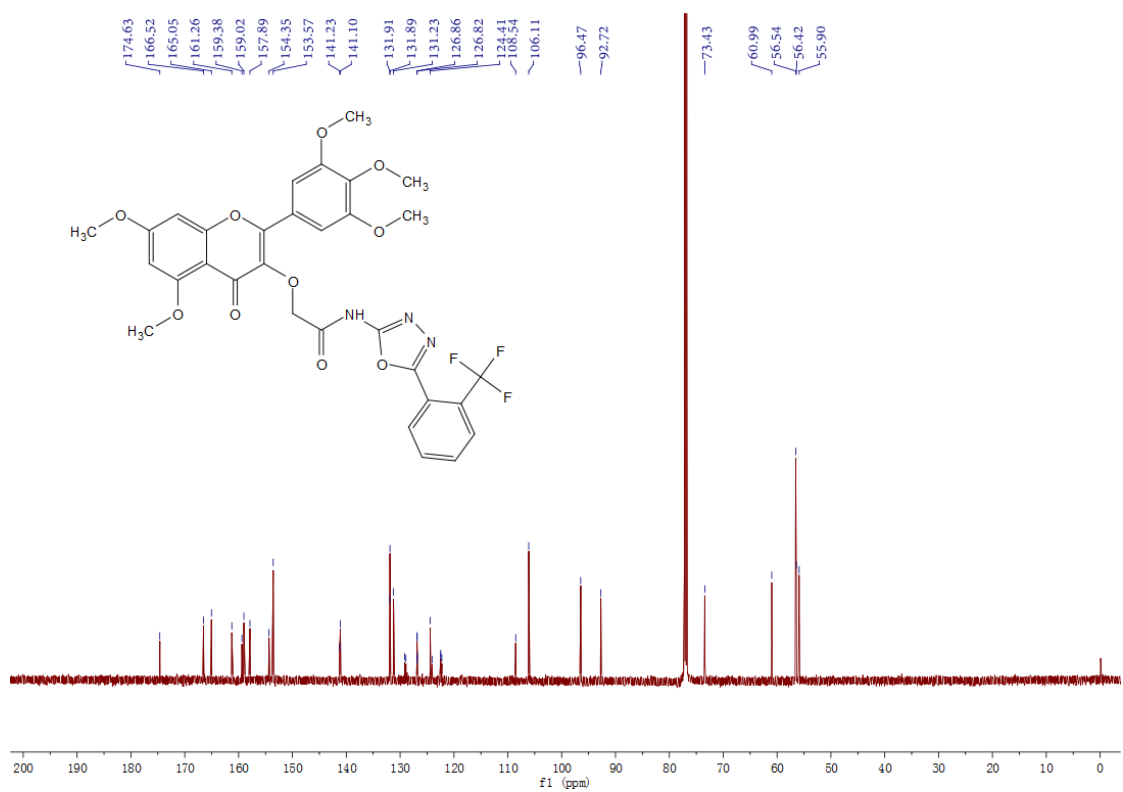


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A17

A18

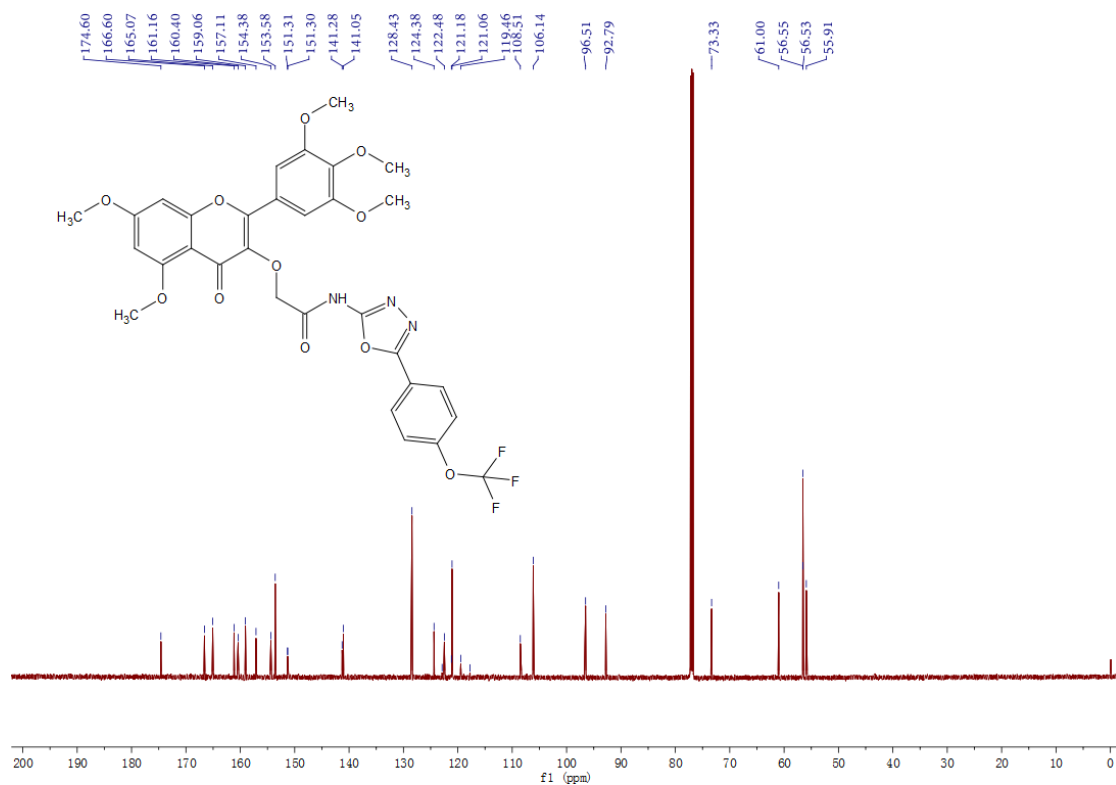
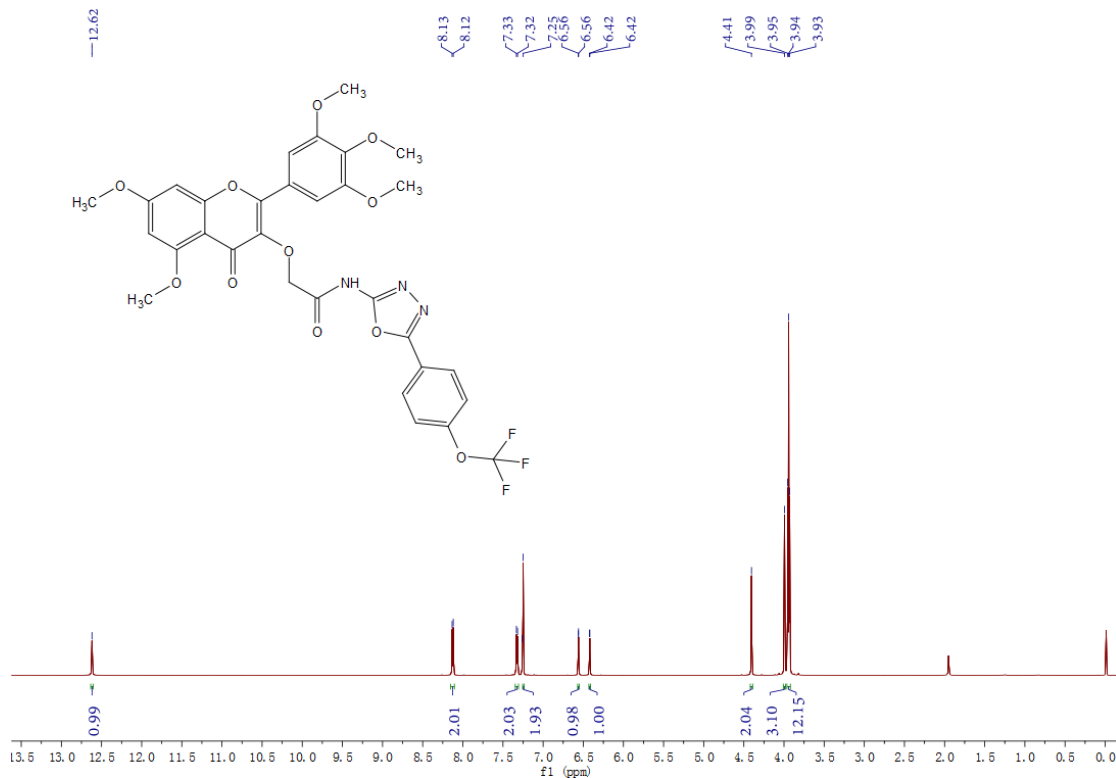


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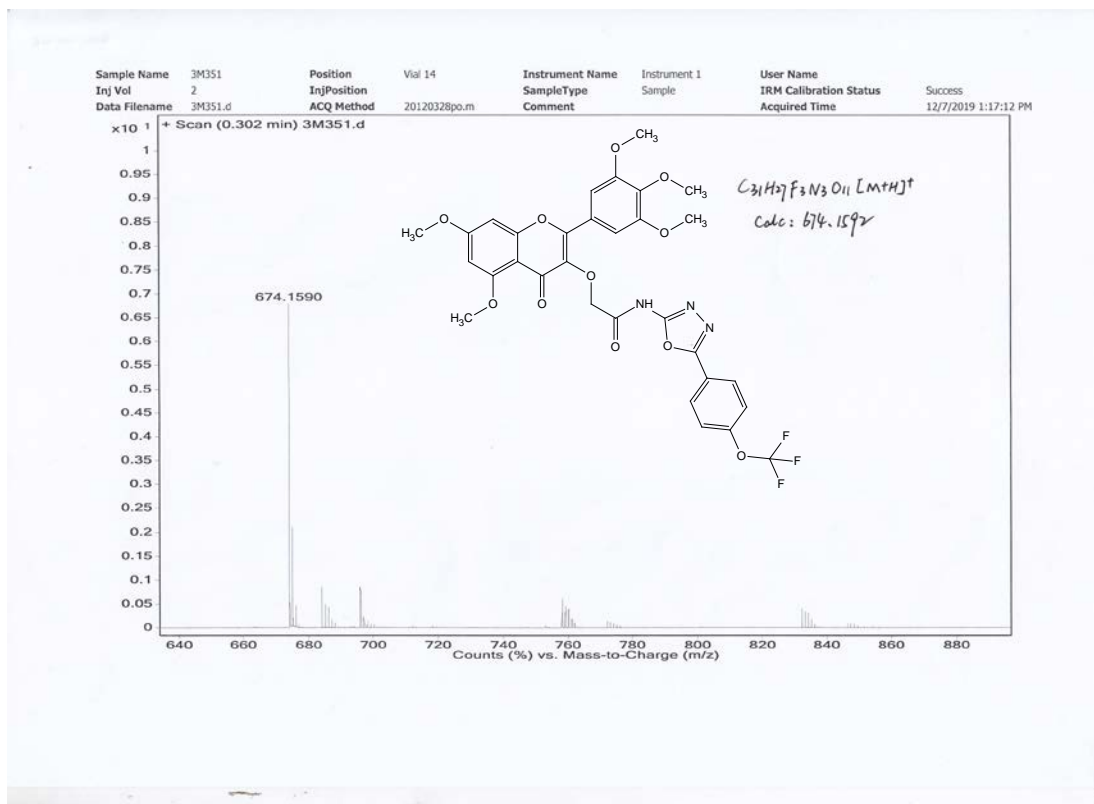


The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound A18

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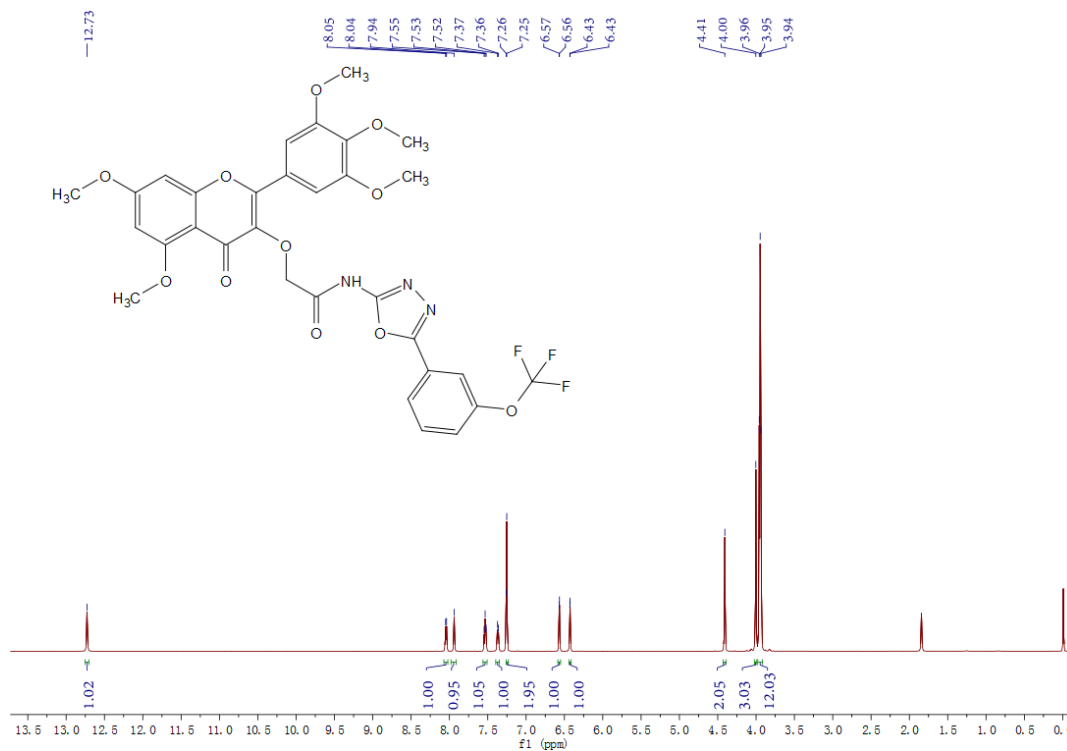




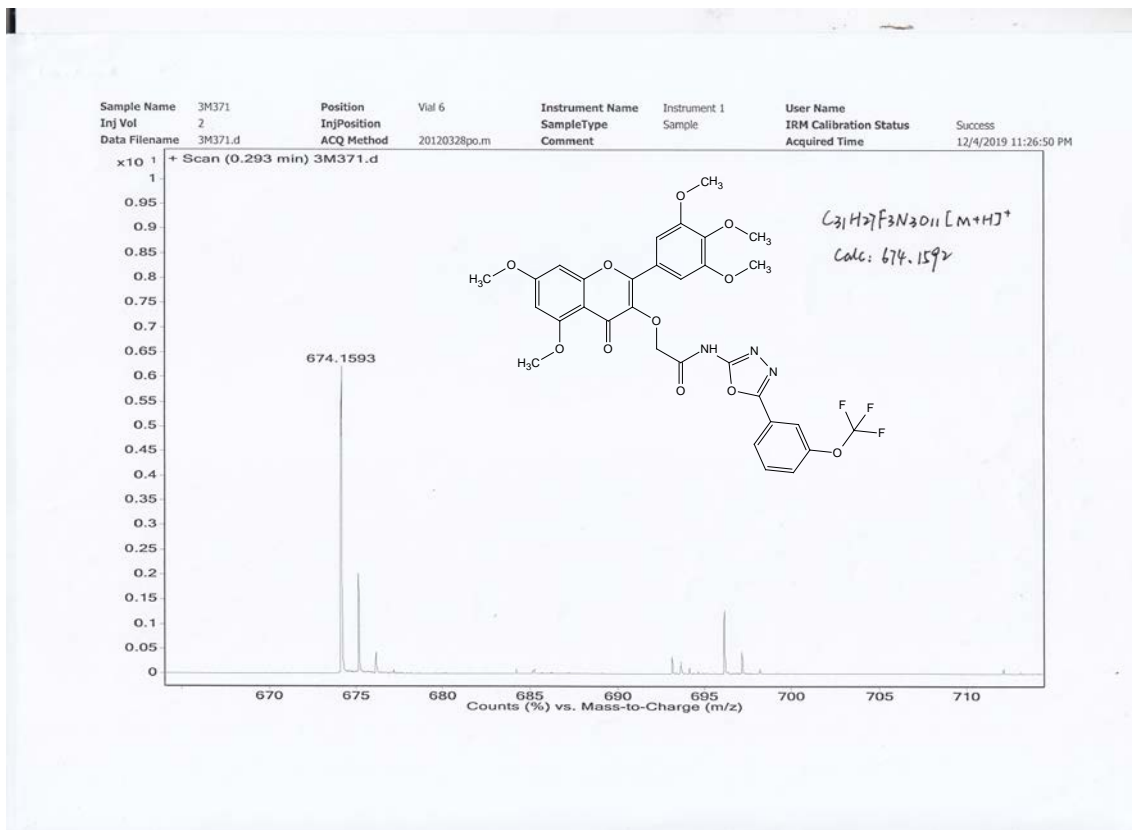
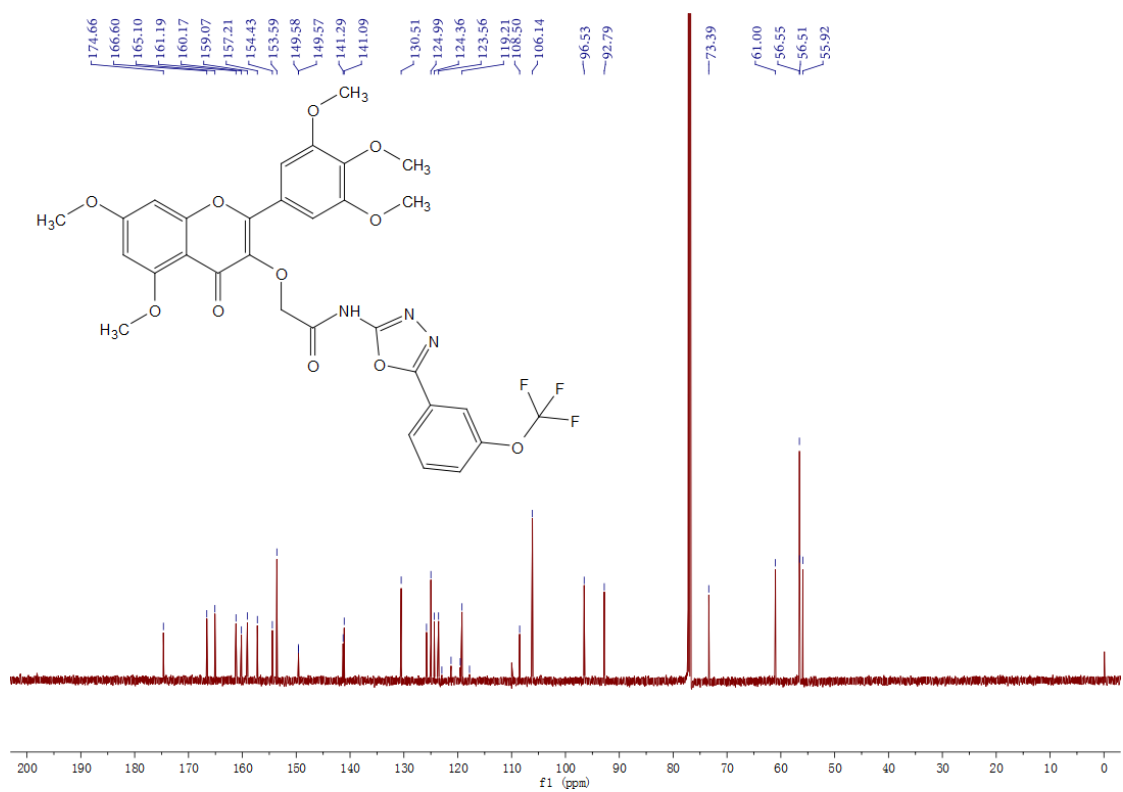


The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound A19

A20

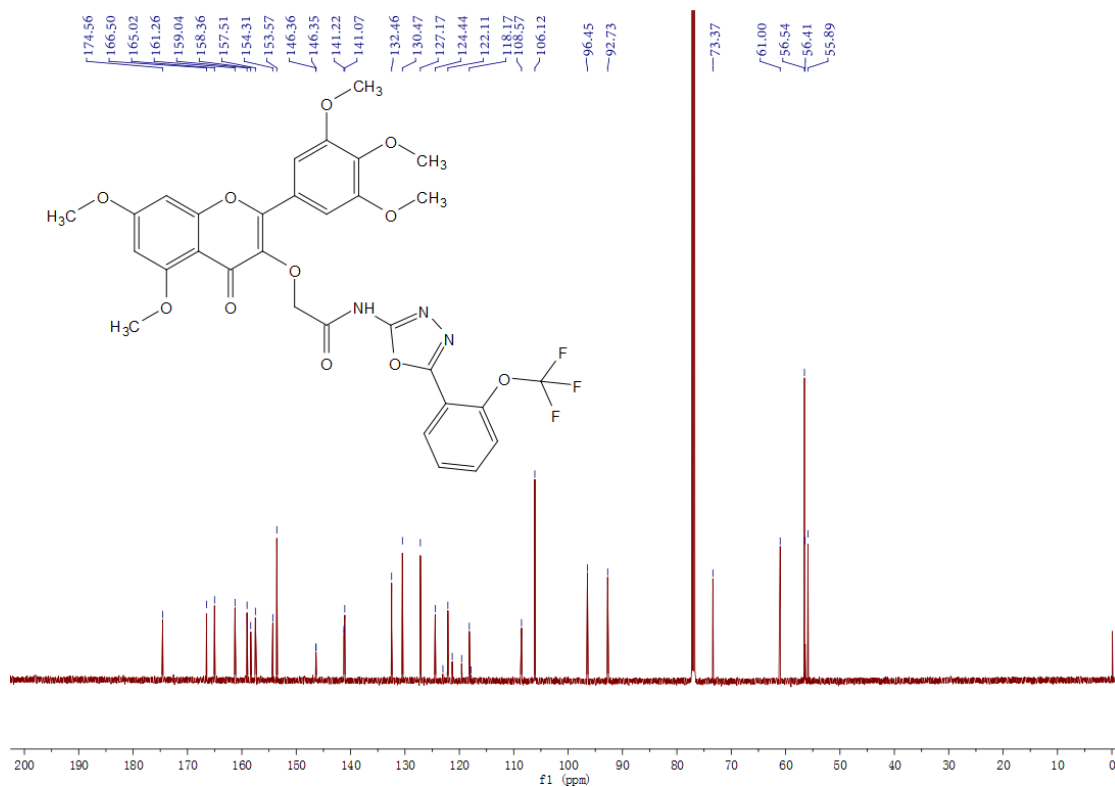
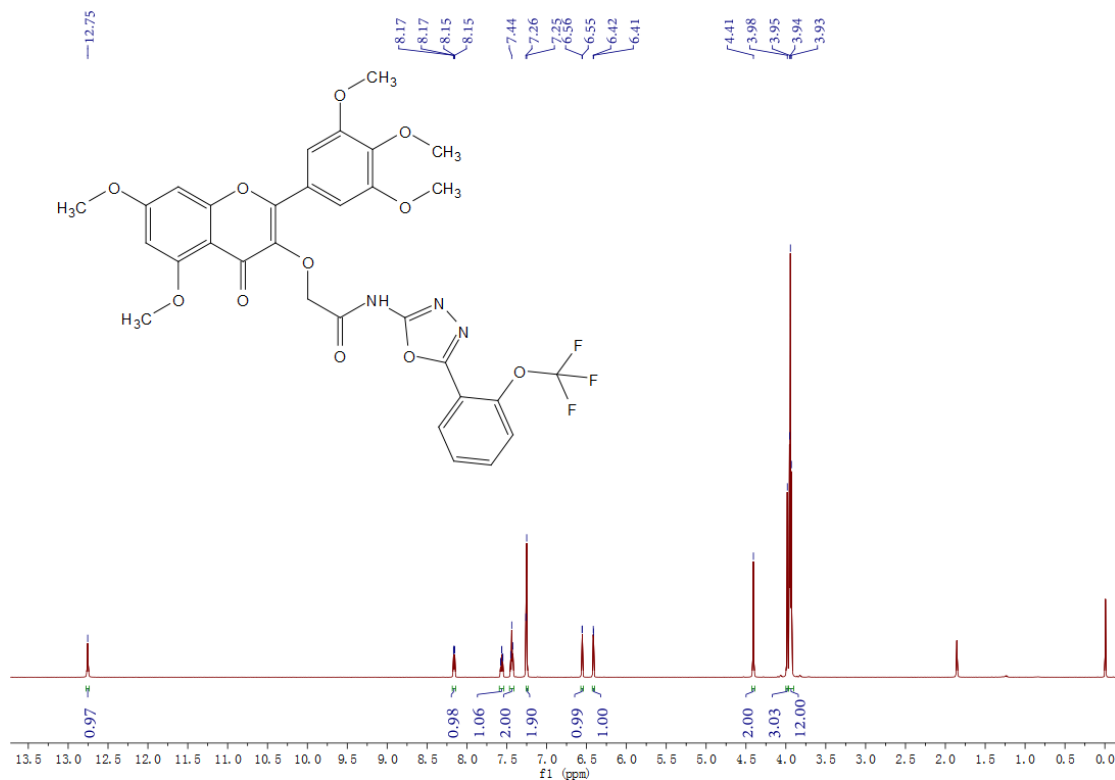


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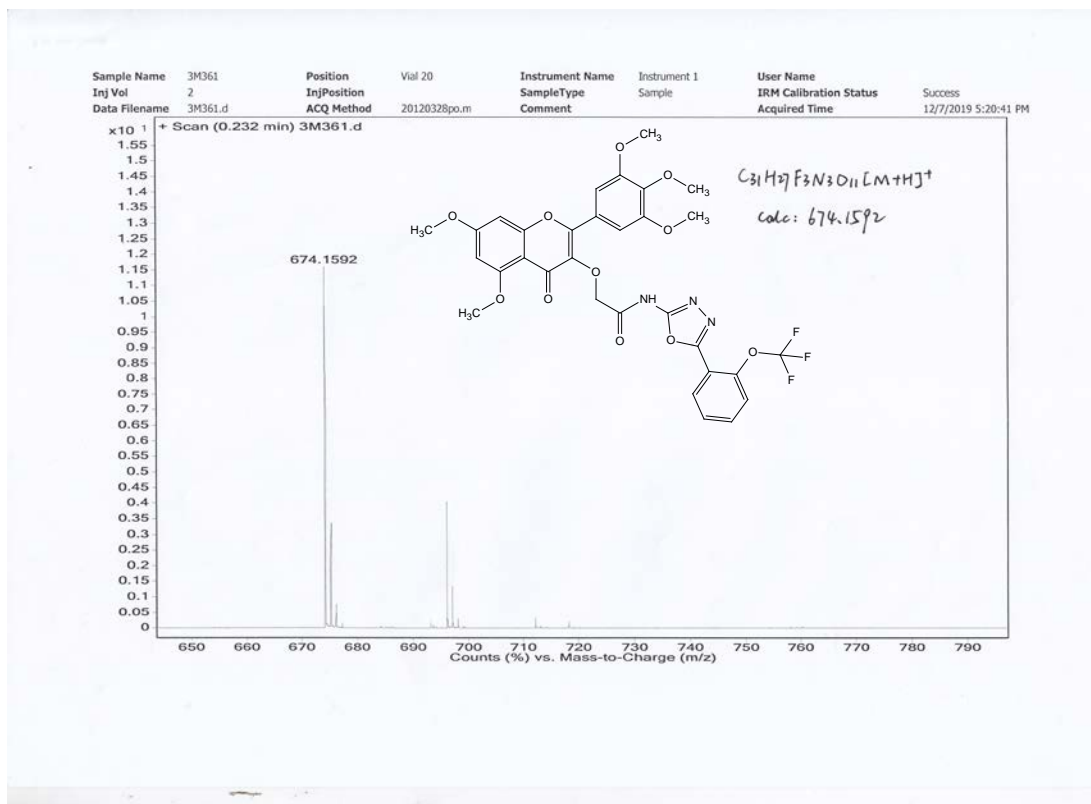


The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound A20

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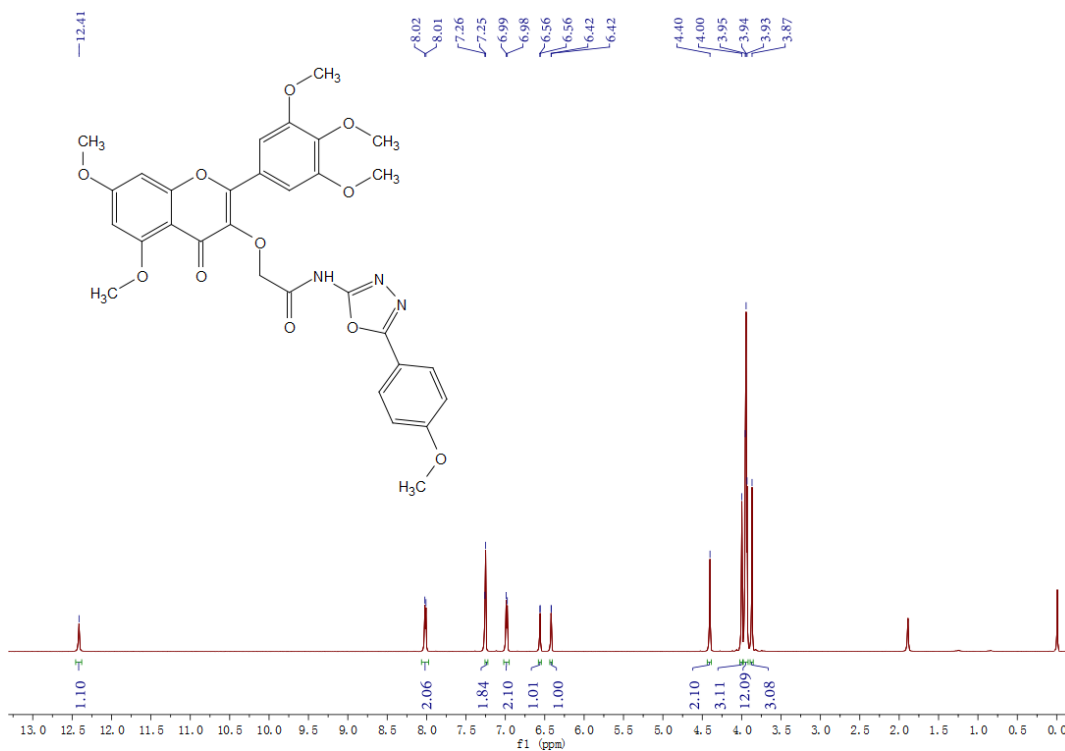


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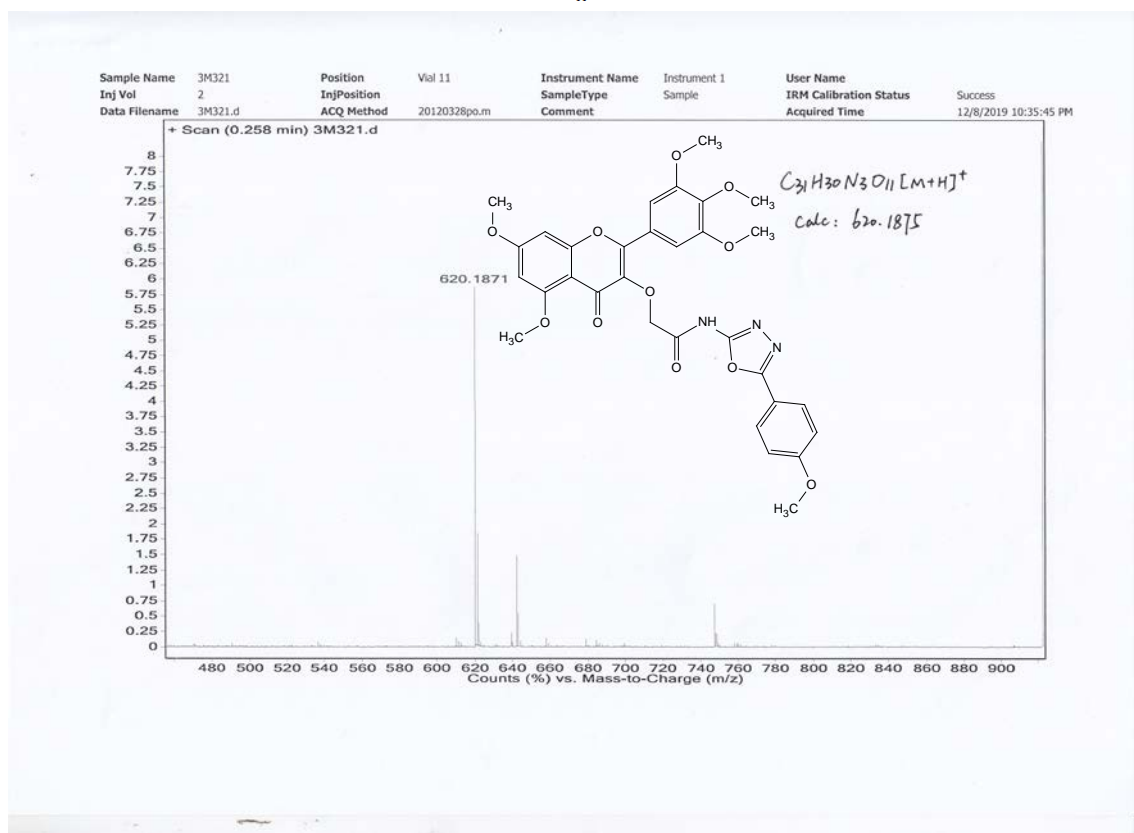
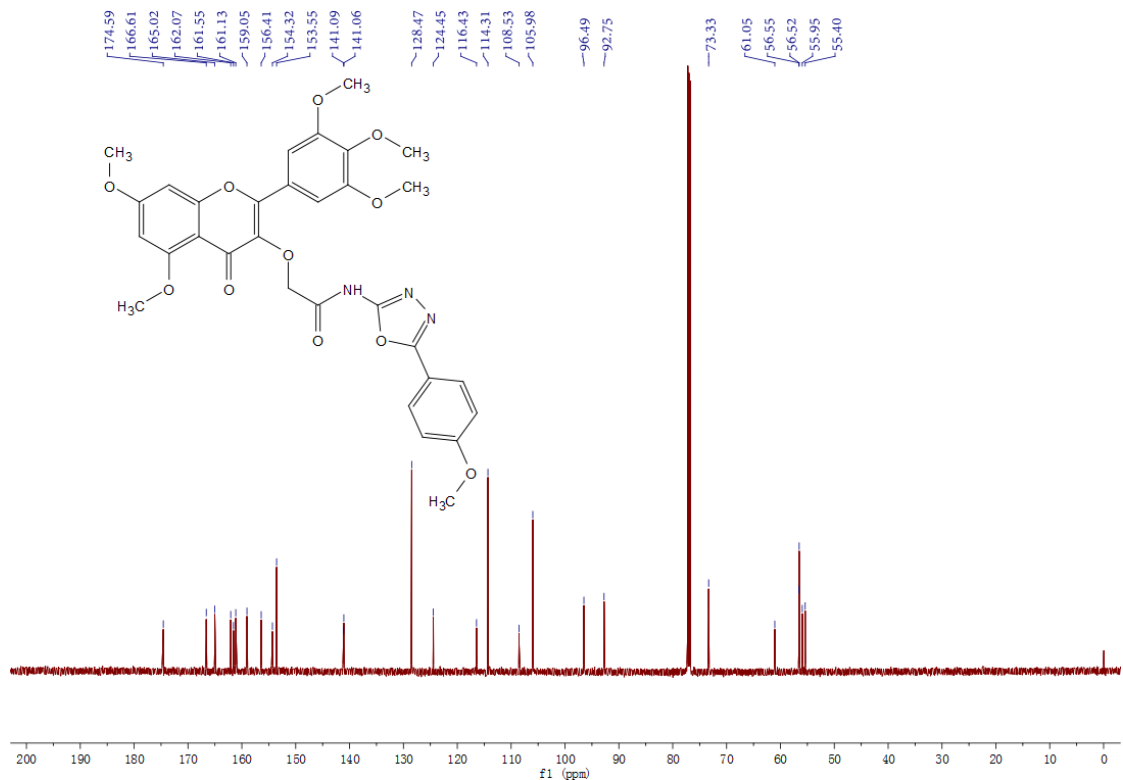


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A21

A22

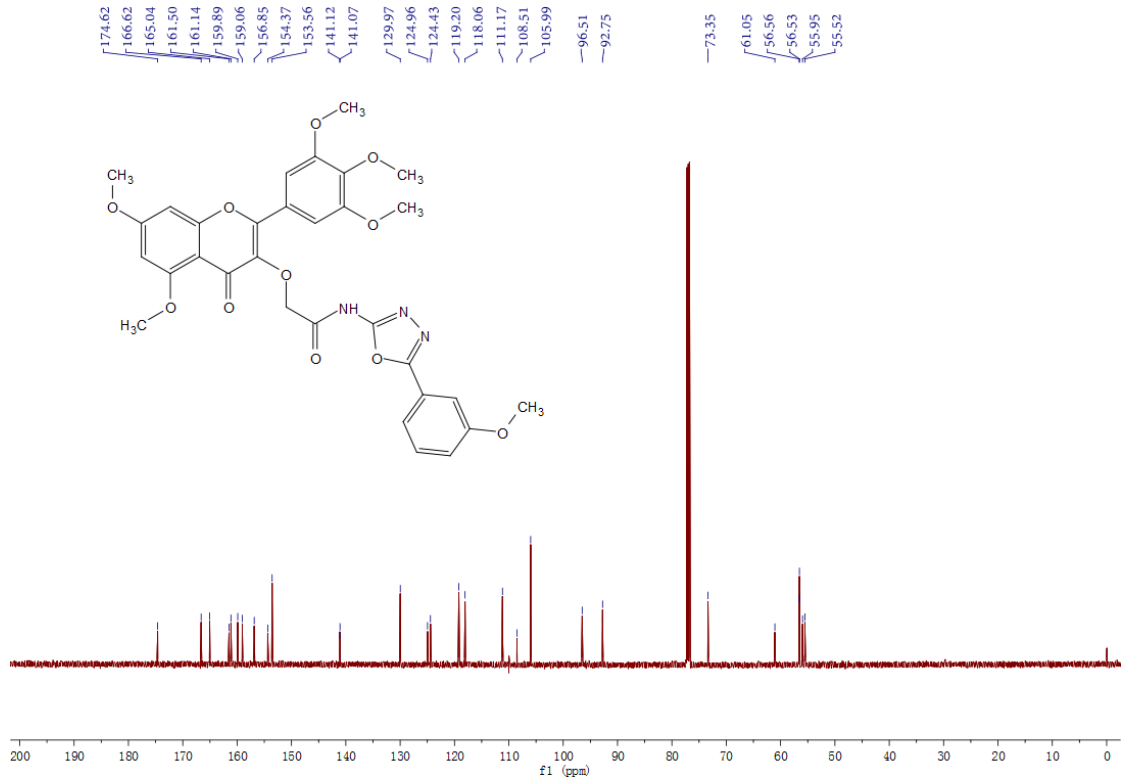
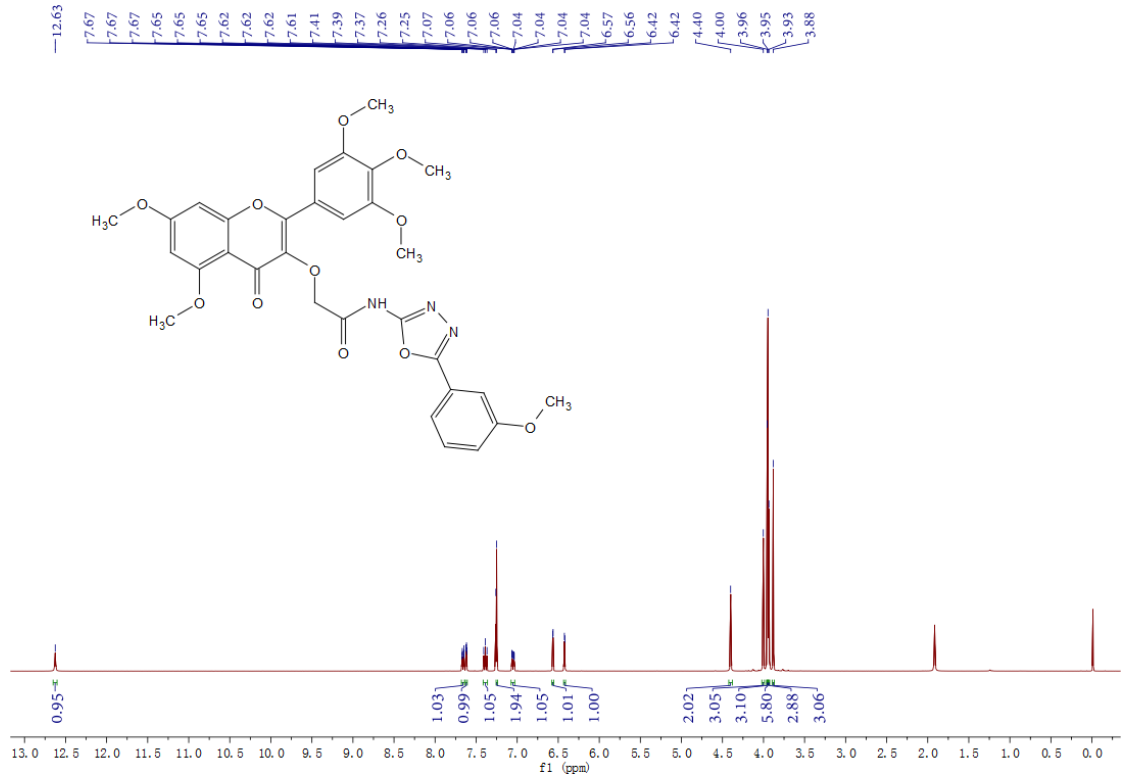


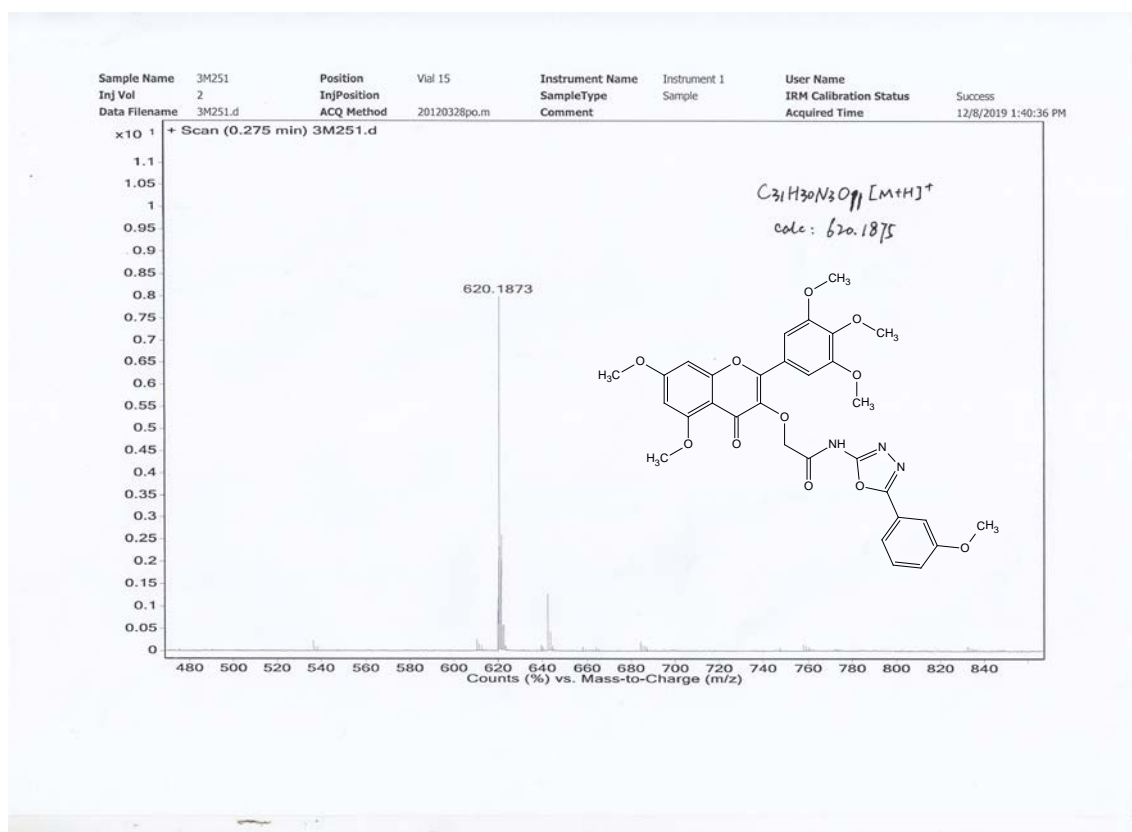
S31



The spectrum of <sup>1</sup>H NMR, <sup>13</sup>C NMR and HRMS of compound A22

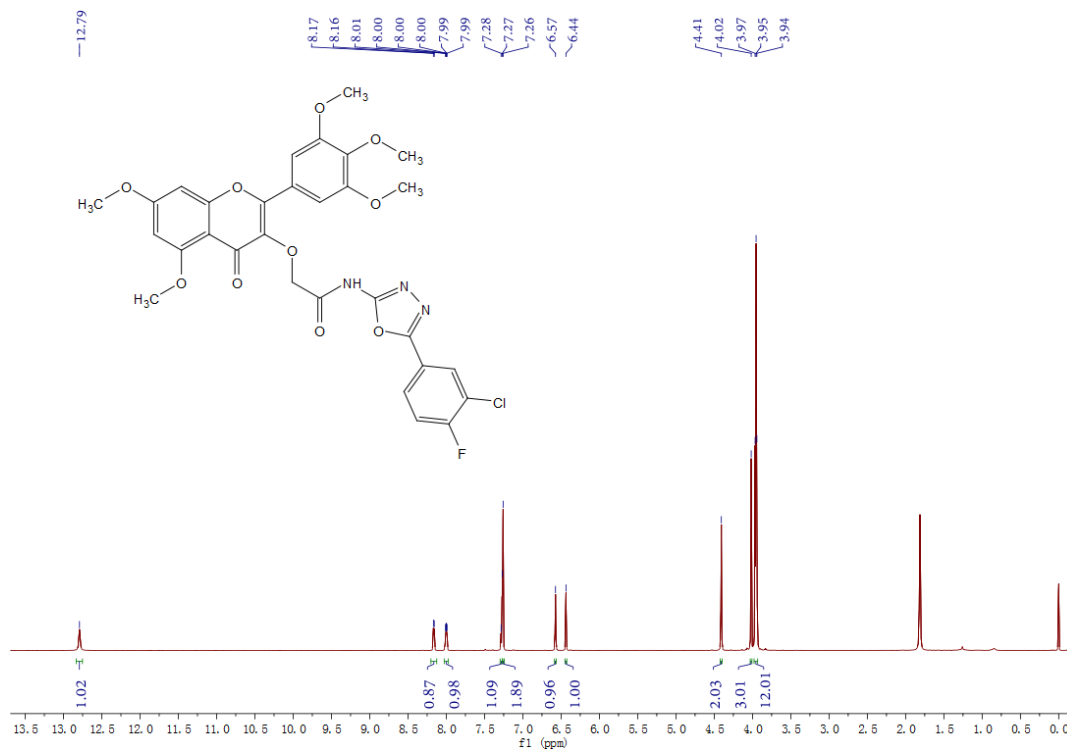
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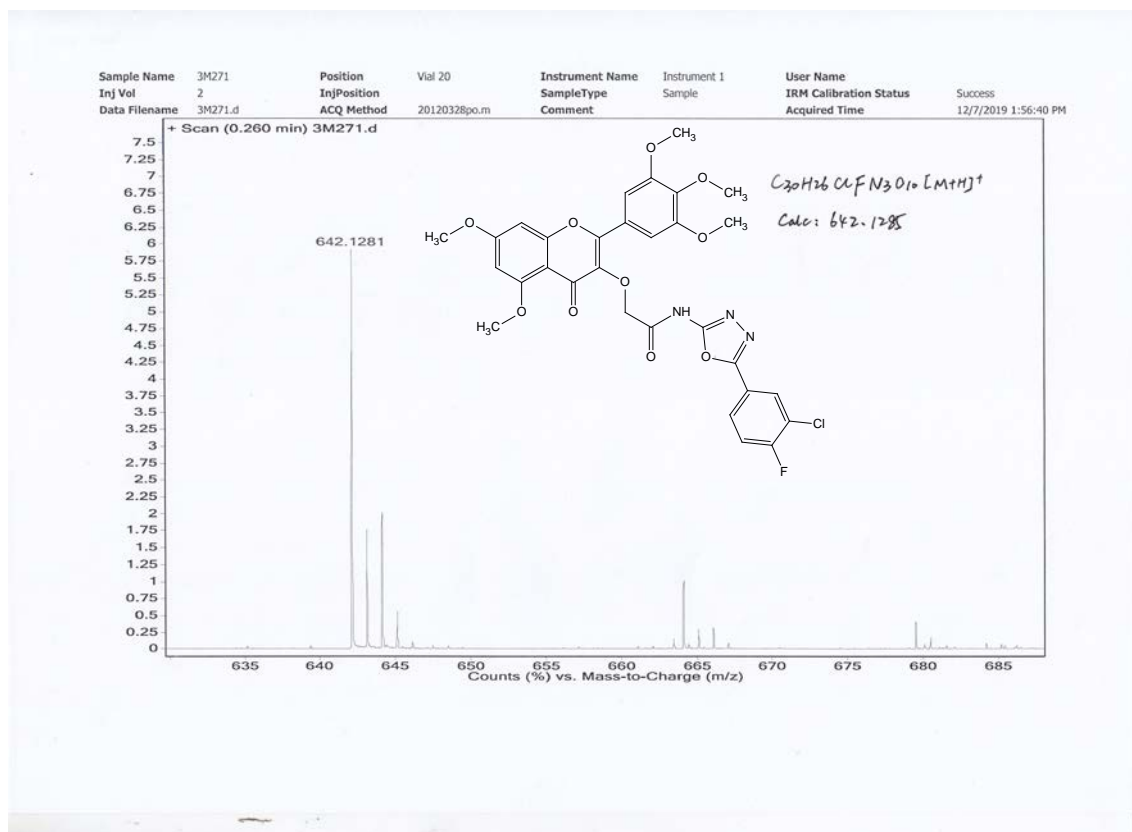
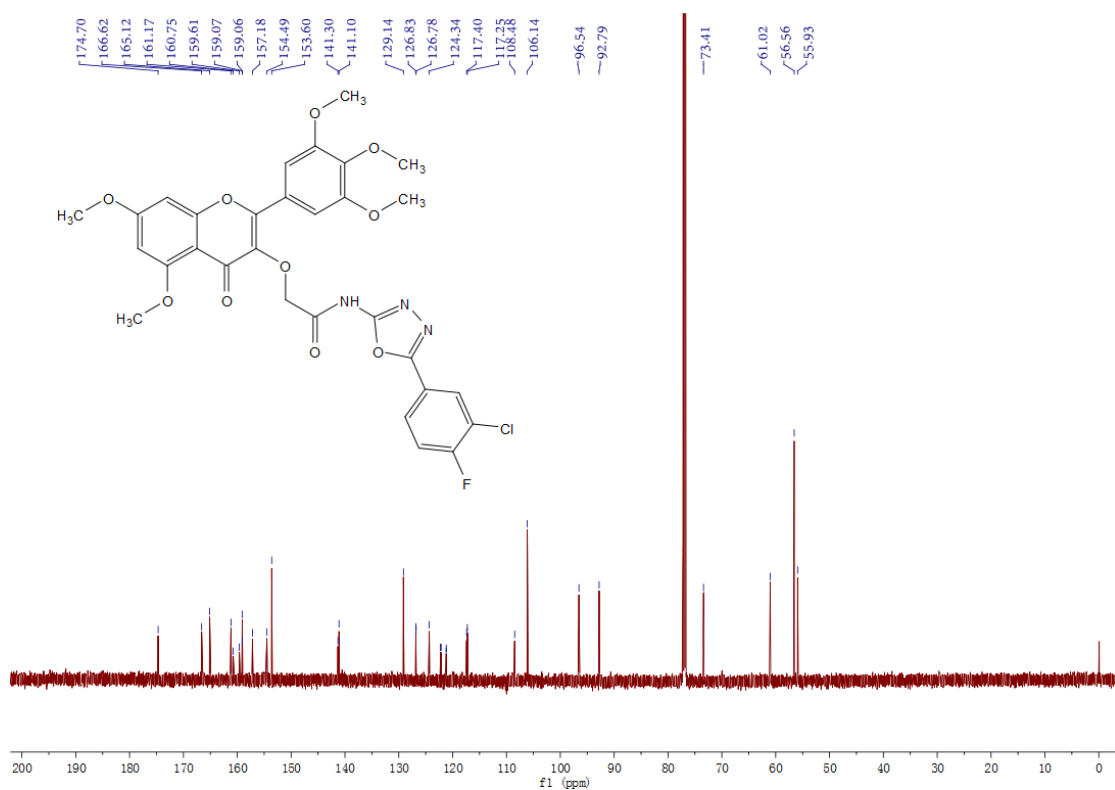


The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound A23

A24



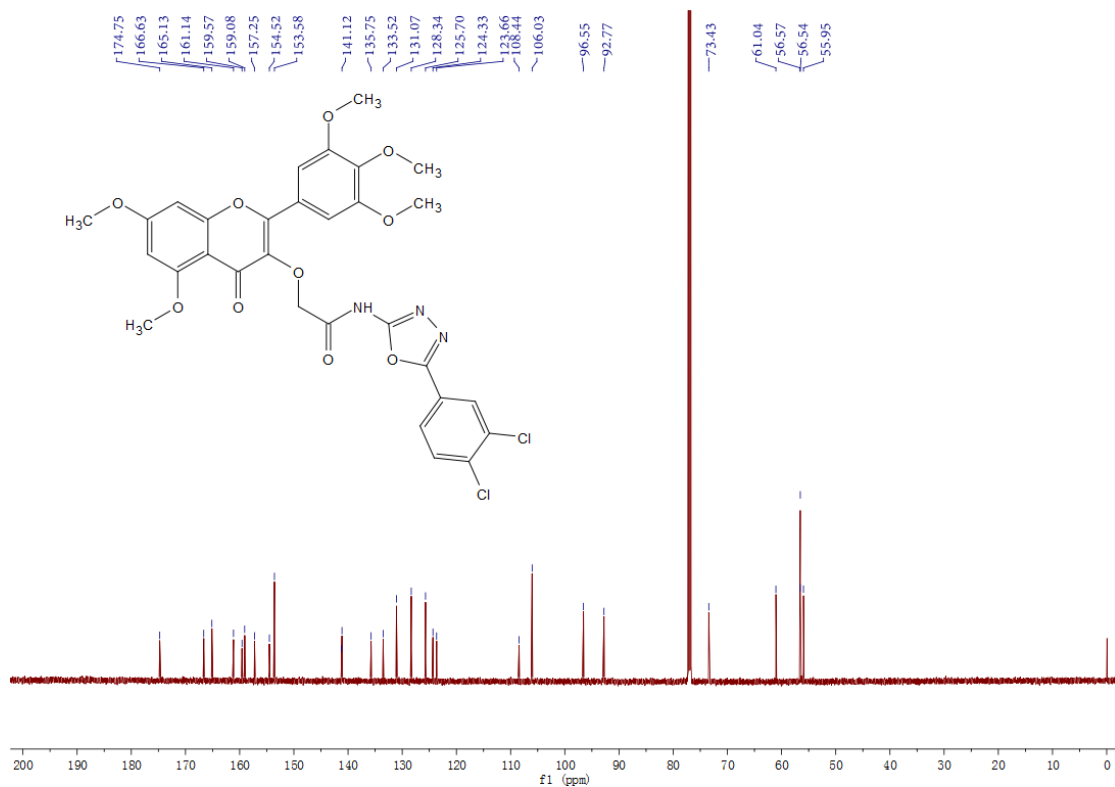
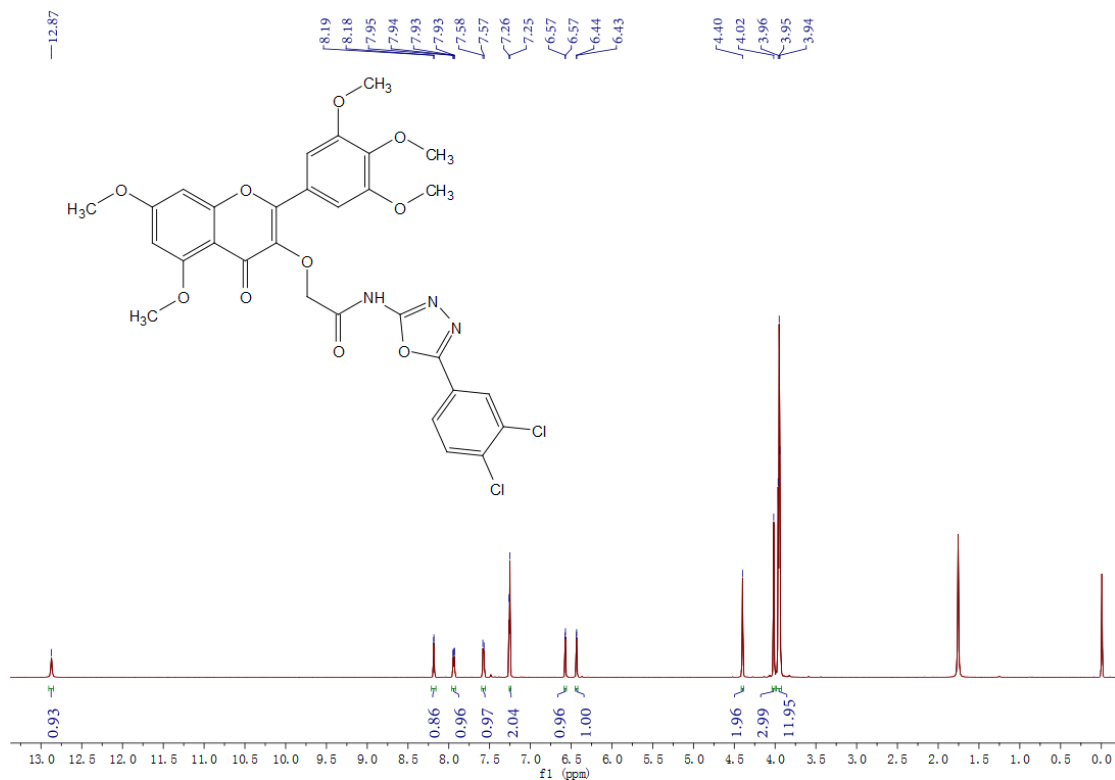
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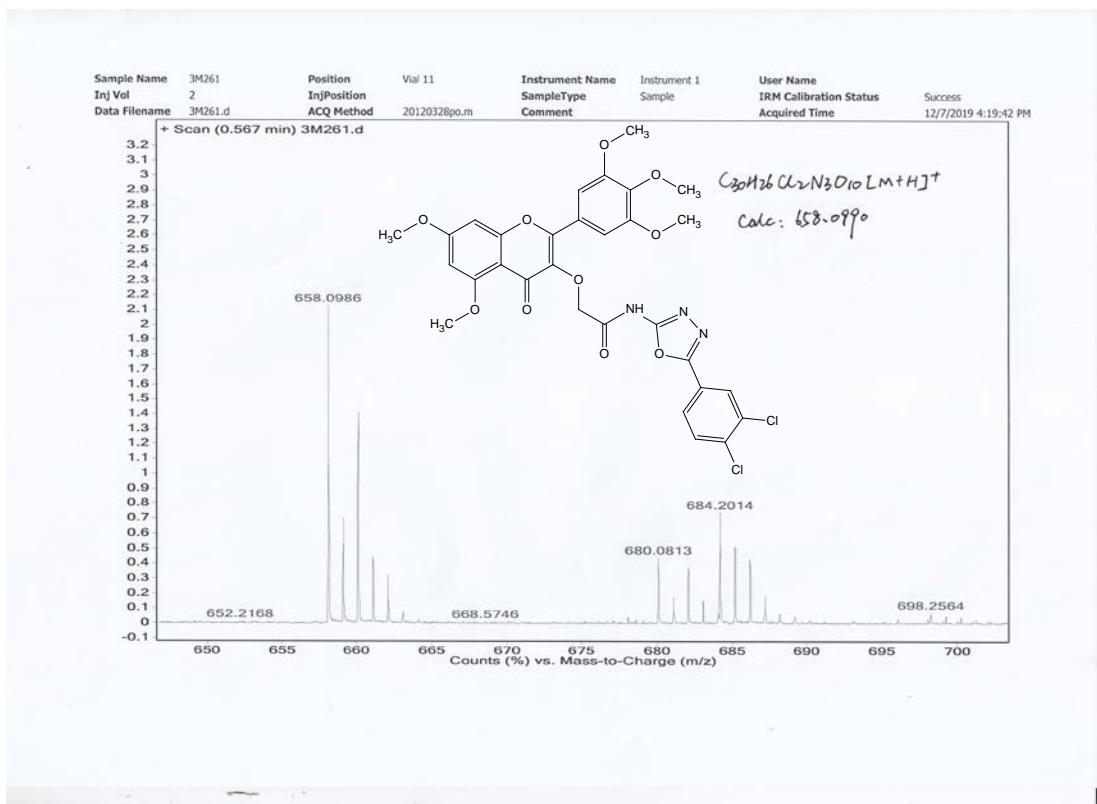


The spectrum of <sup>1</sup>H NMR, <sup>13</sup>C NMR and HRMS of compound A24



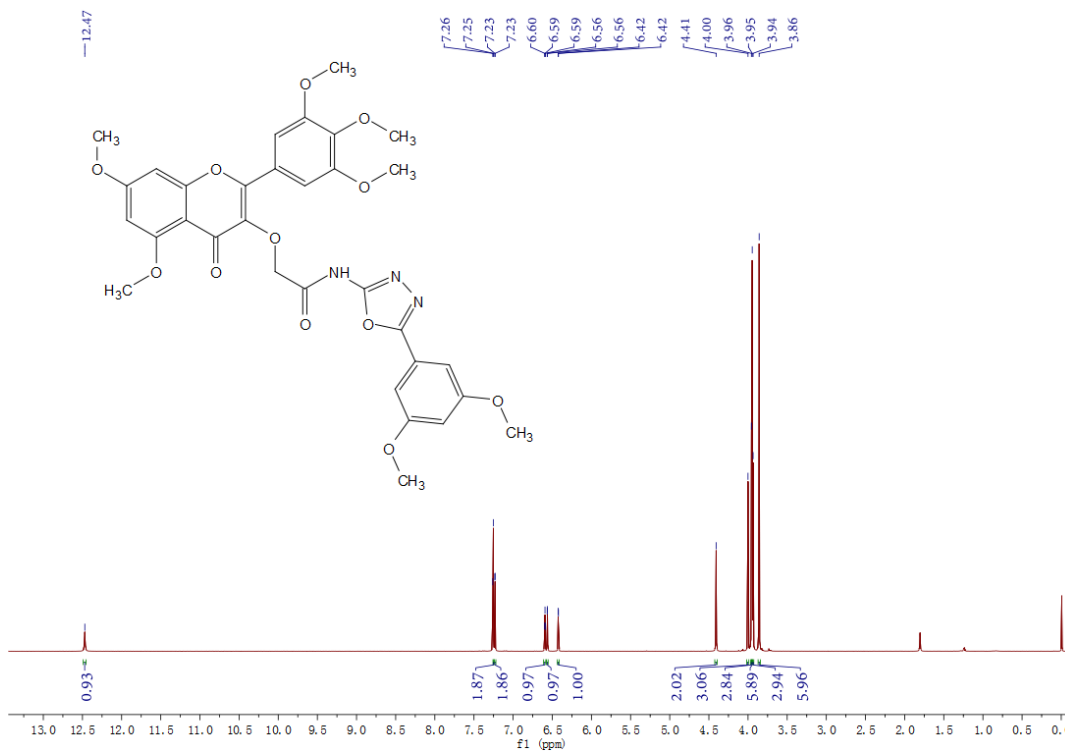
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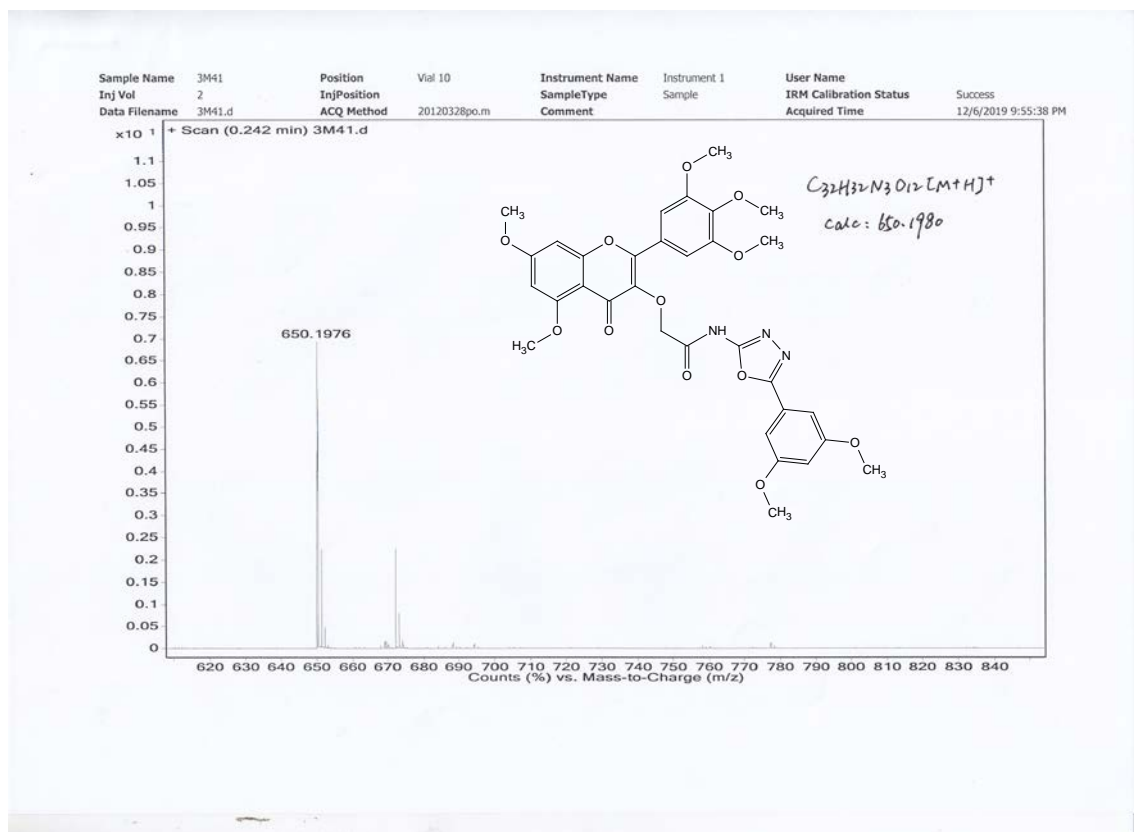
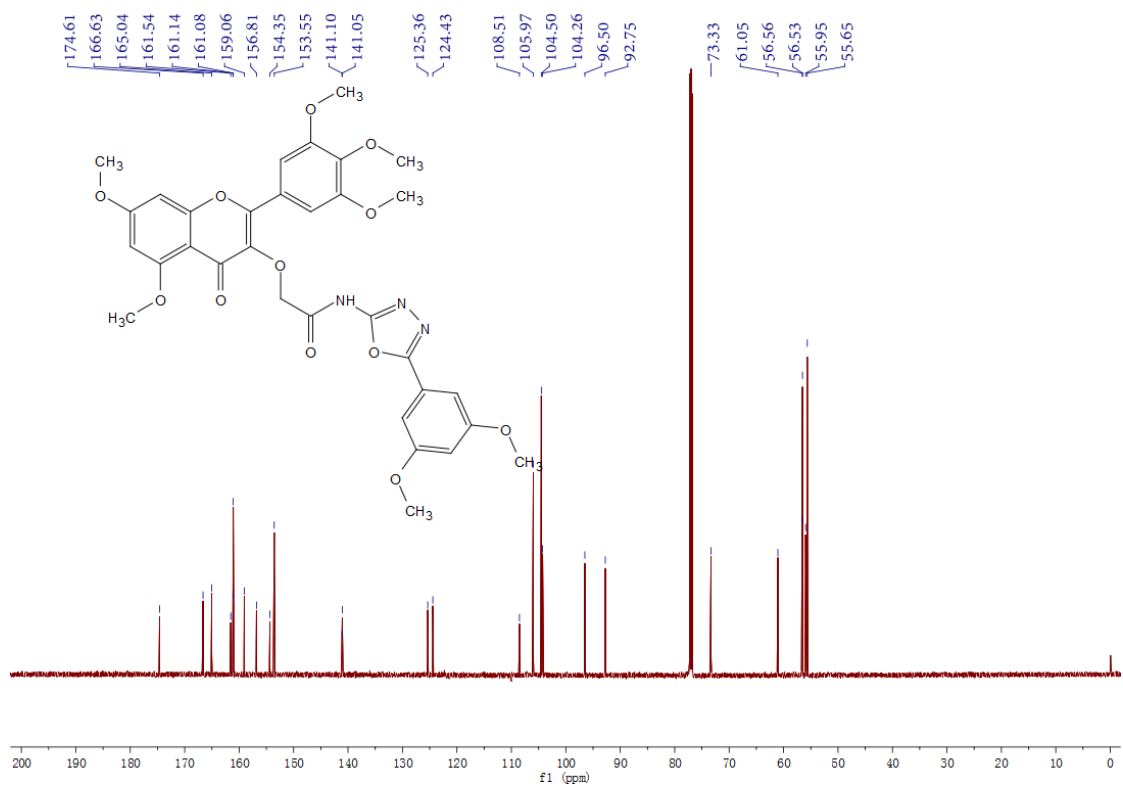


The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound A25

A26

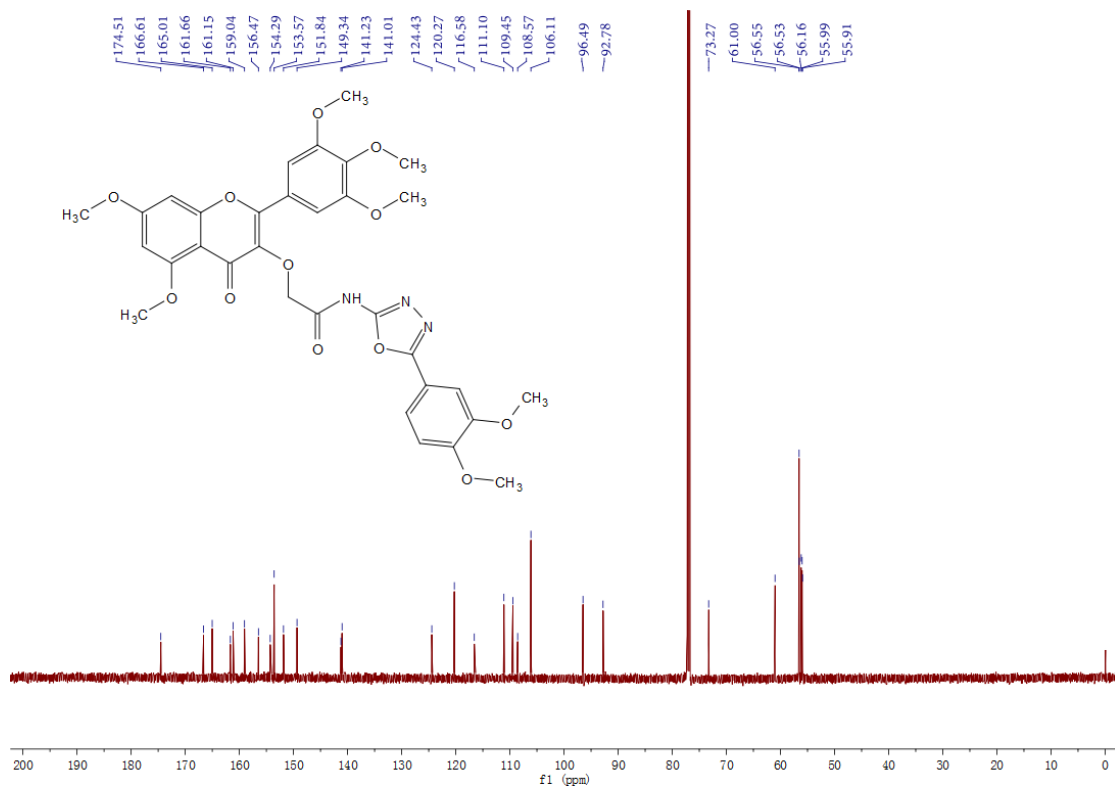
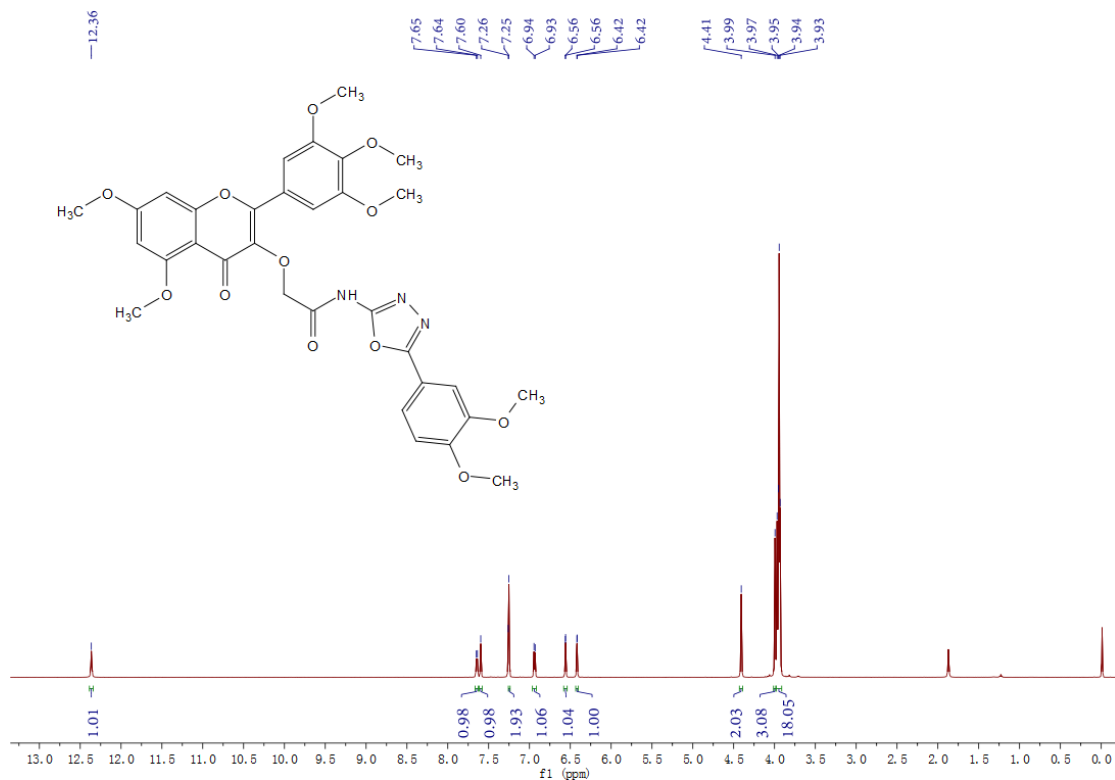


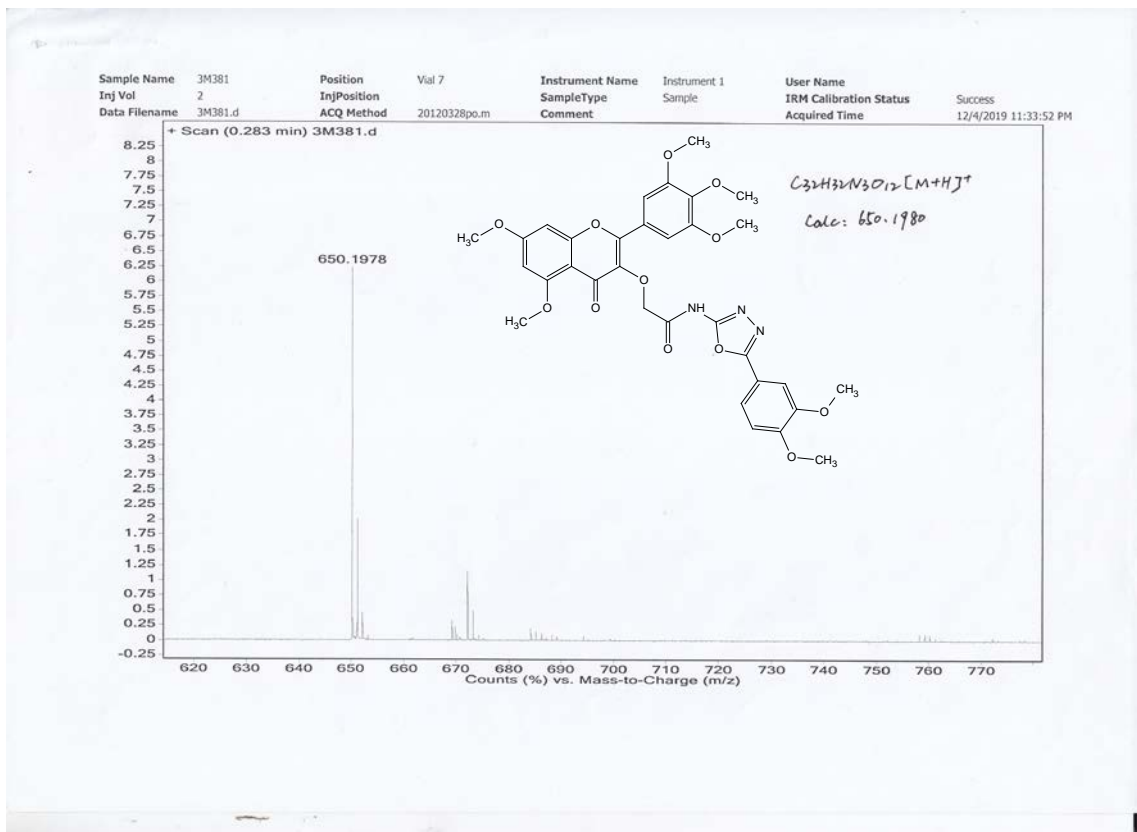
S37



The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A26

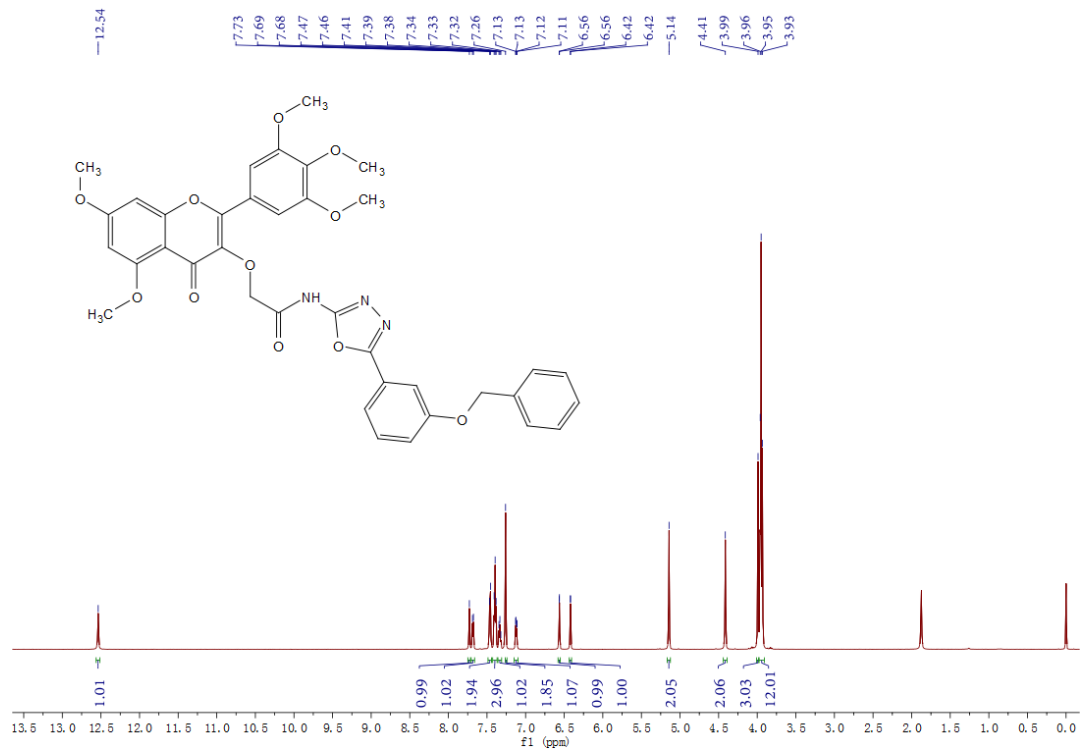
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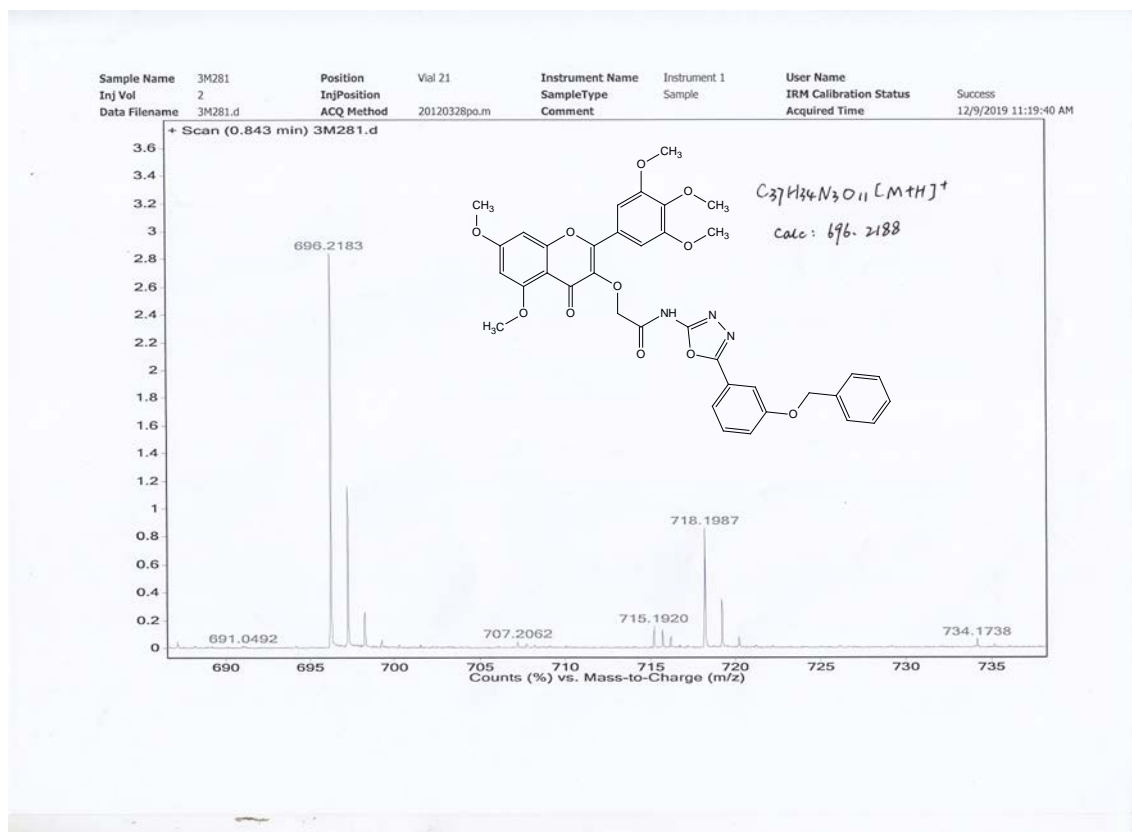
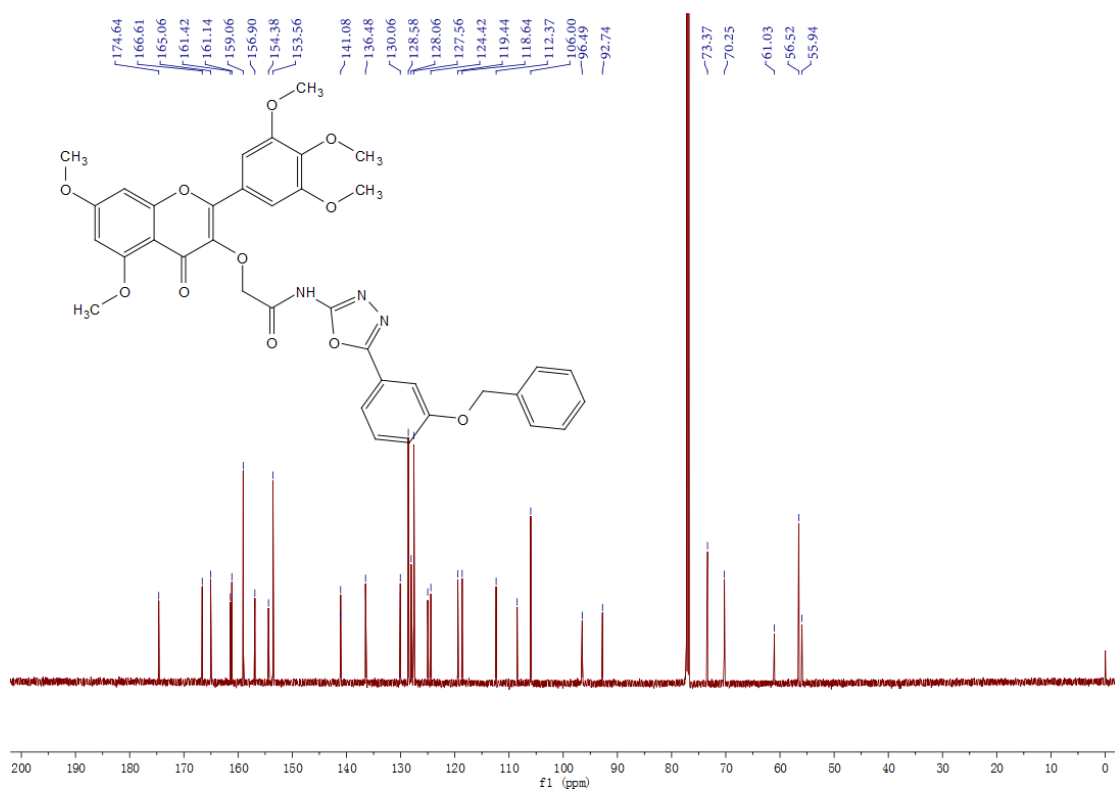


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A27

A28

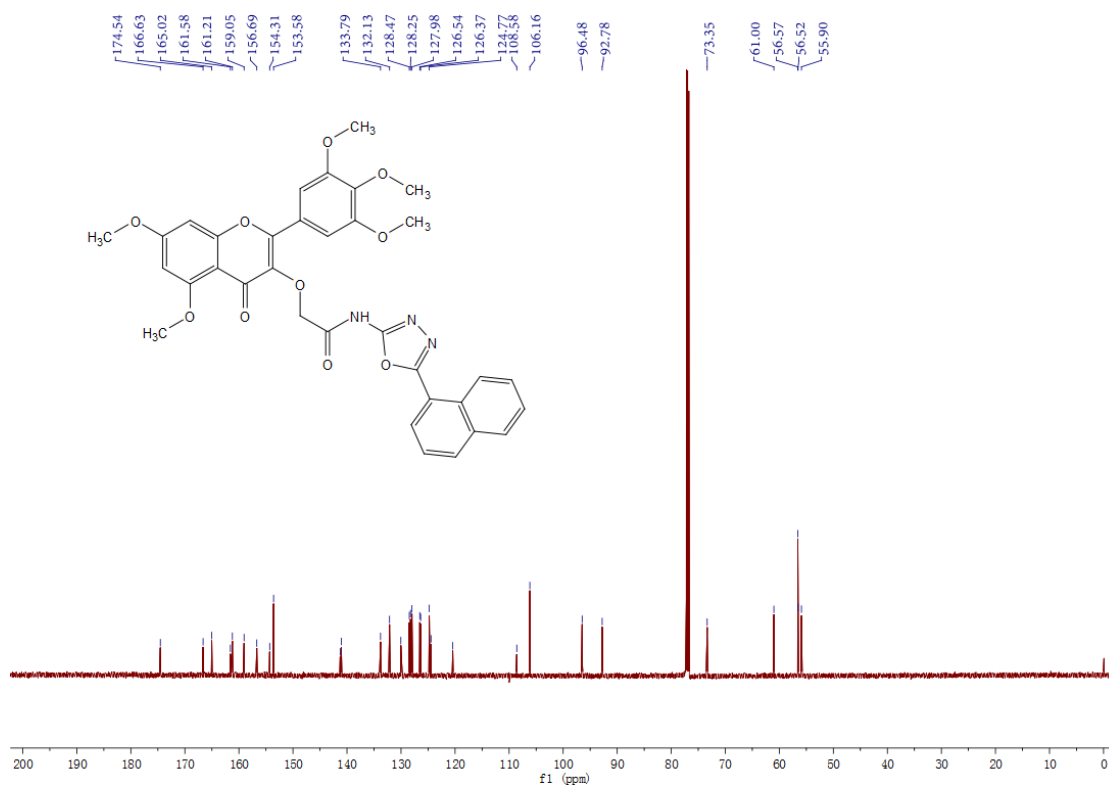
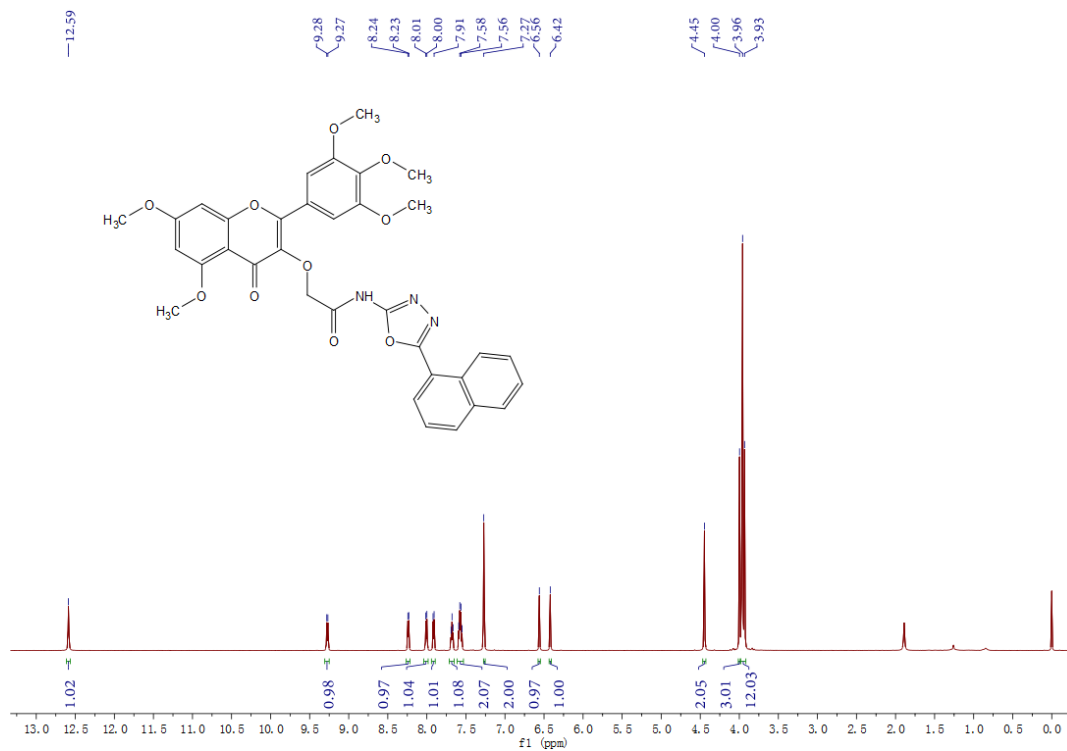


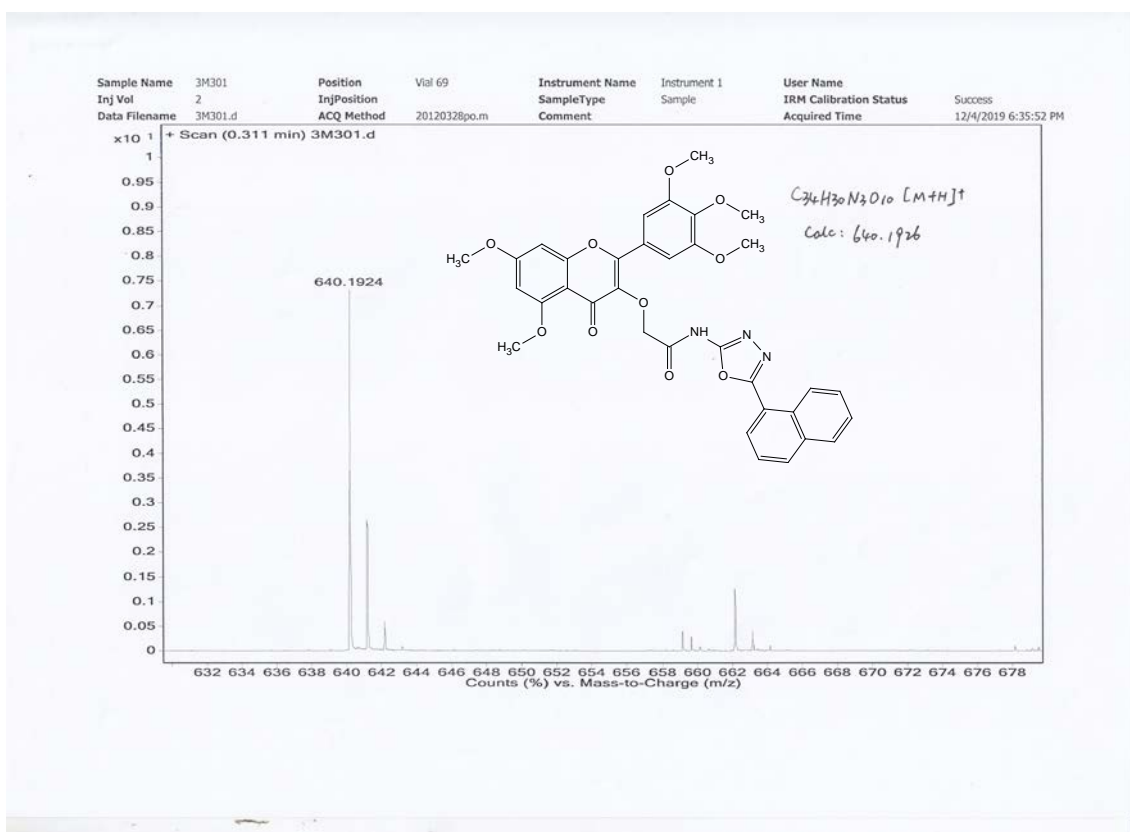
S40



The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound A28

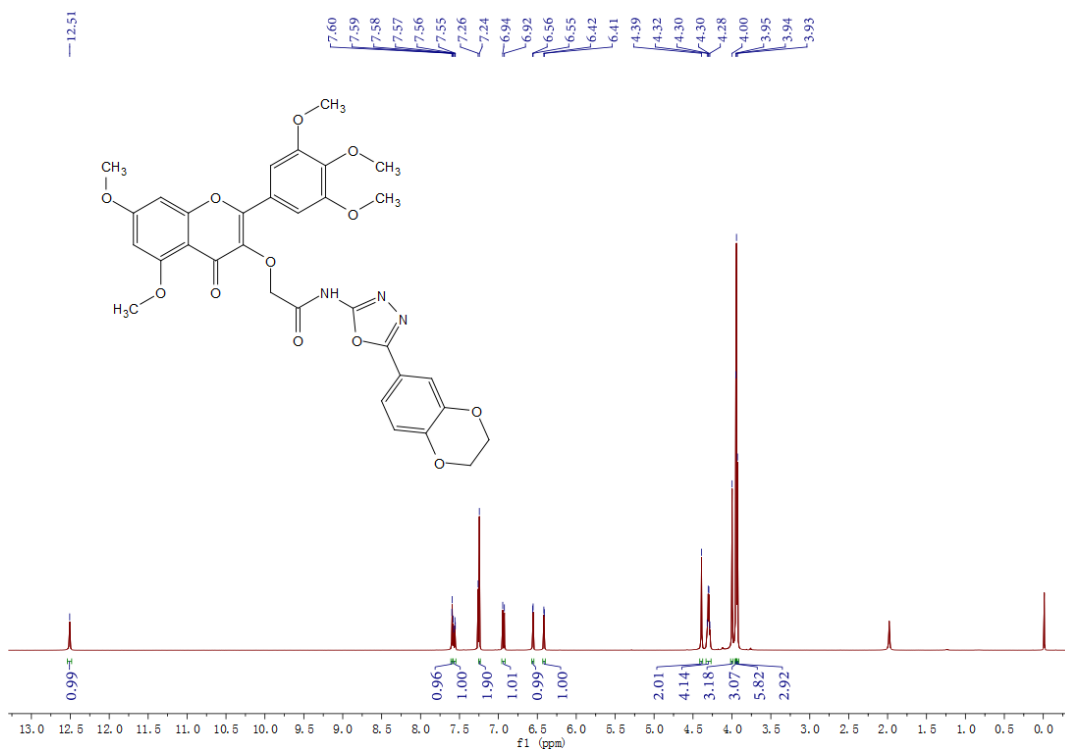
A29





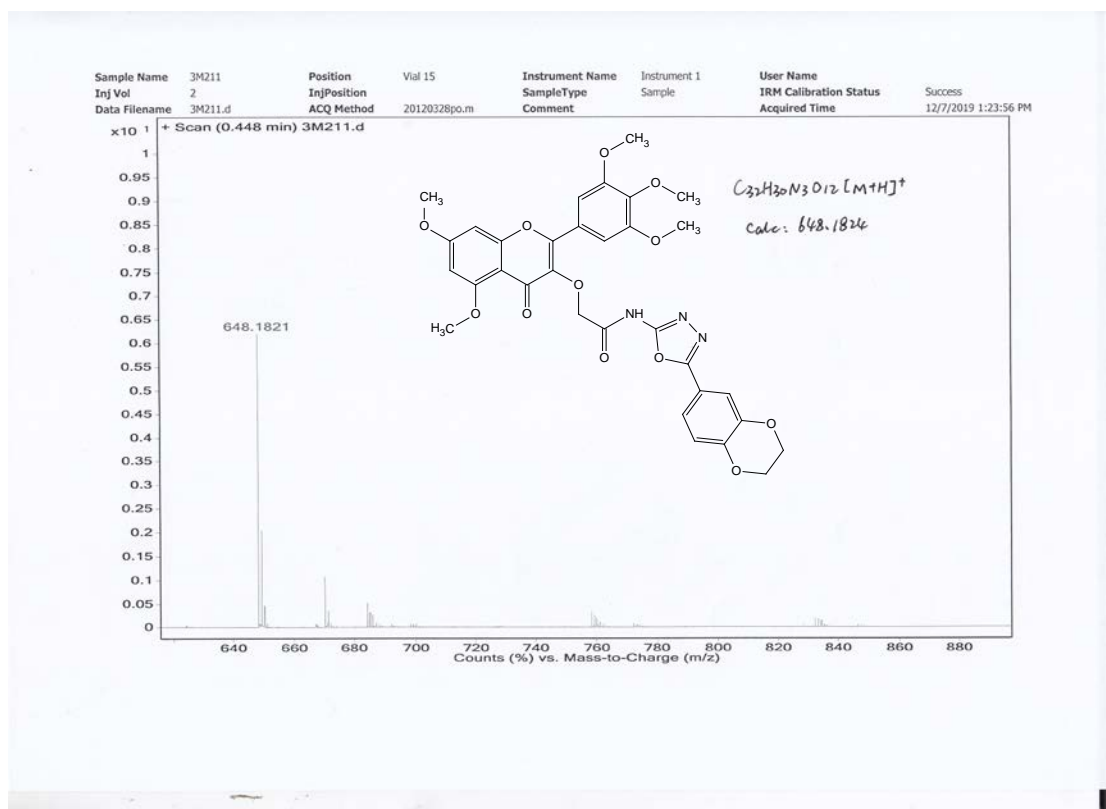
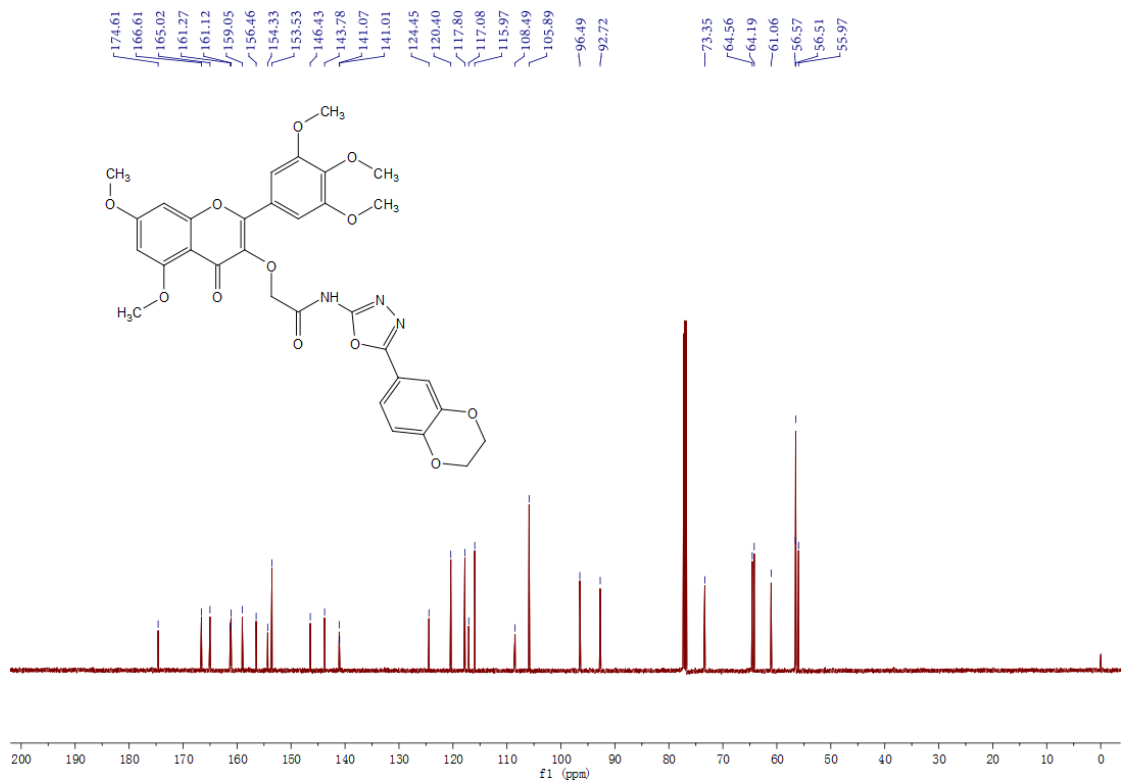
The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A29

A30



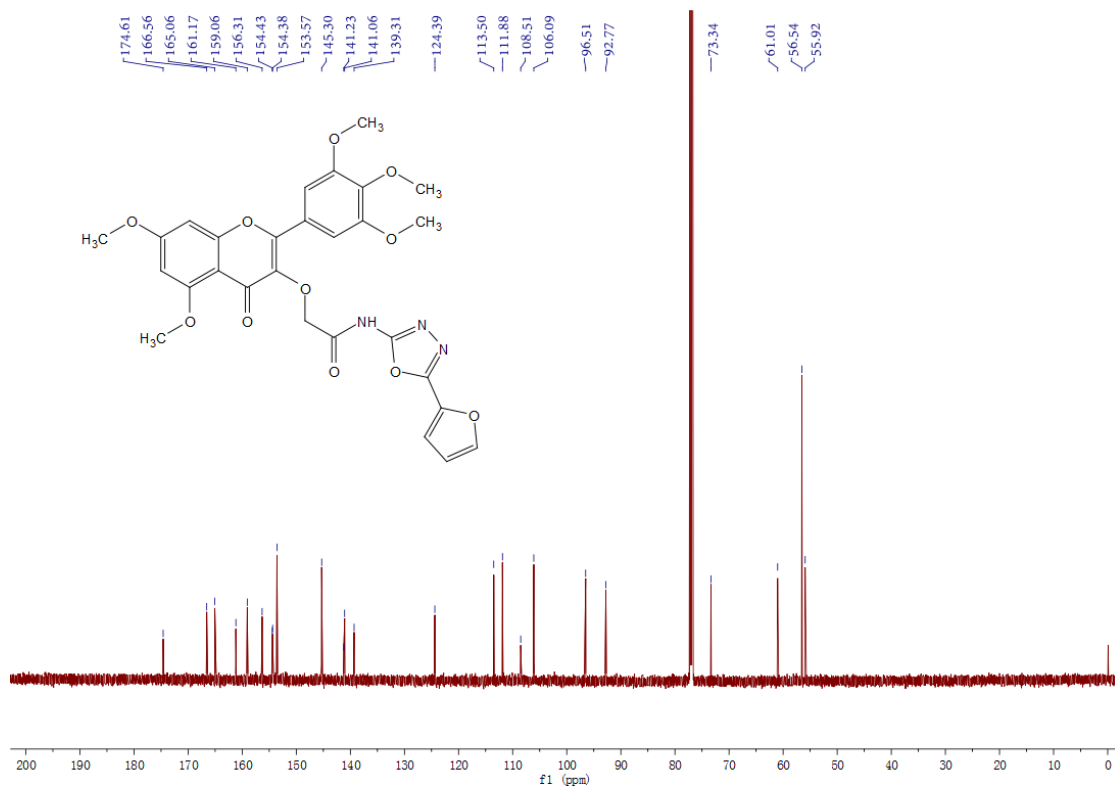
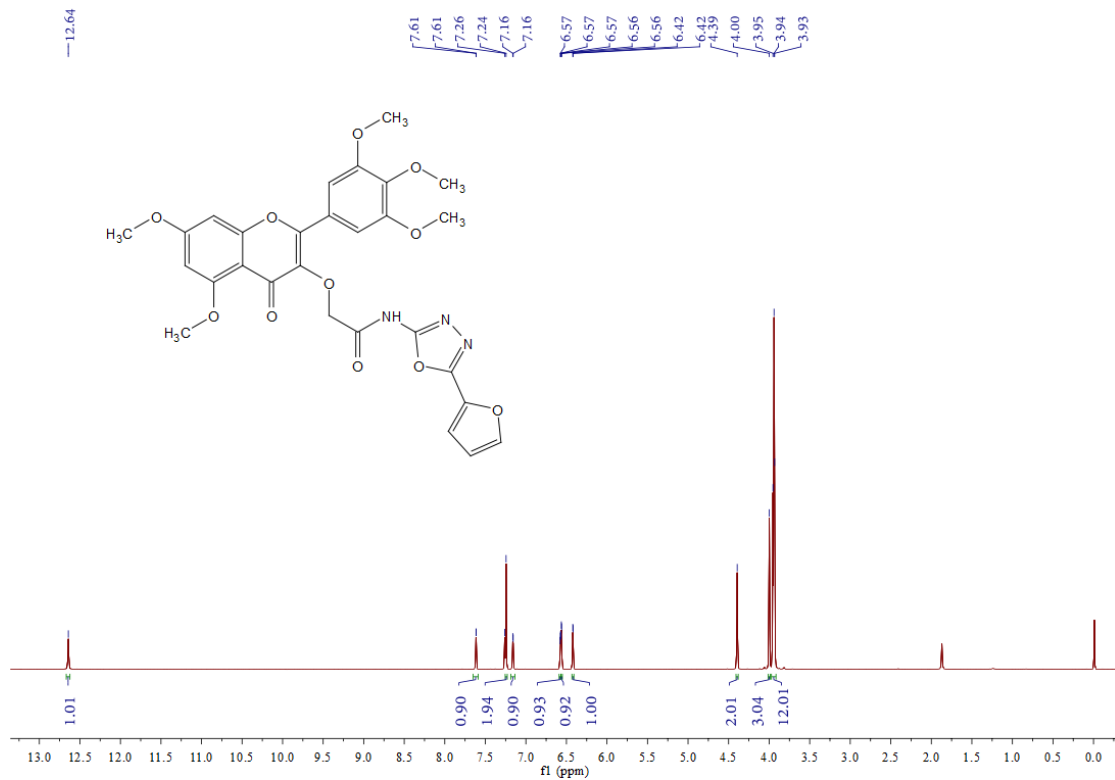
S43

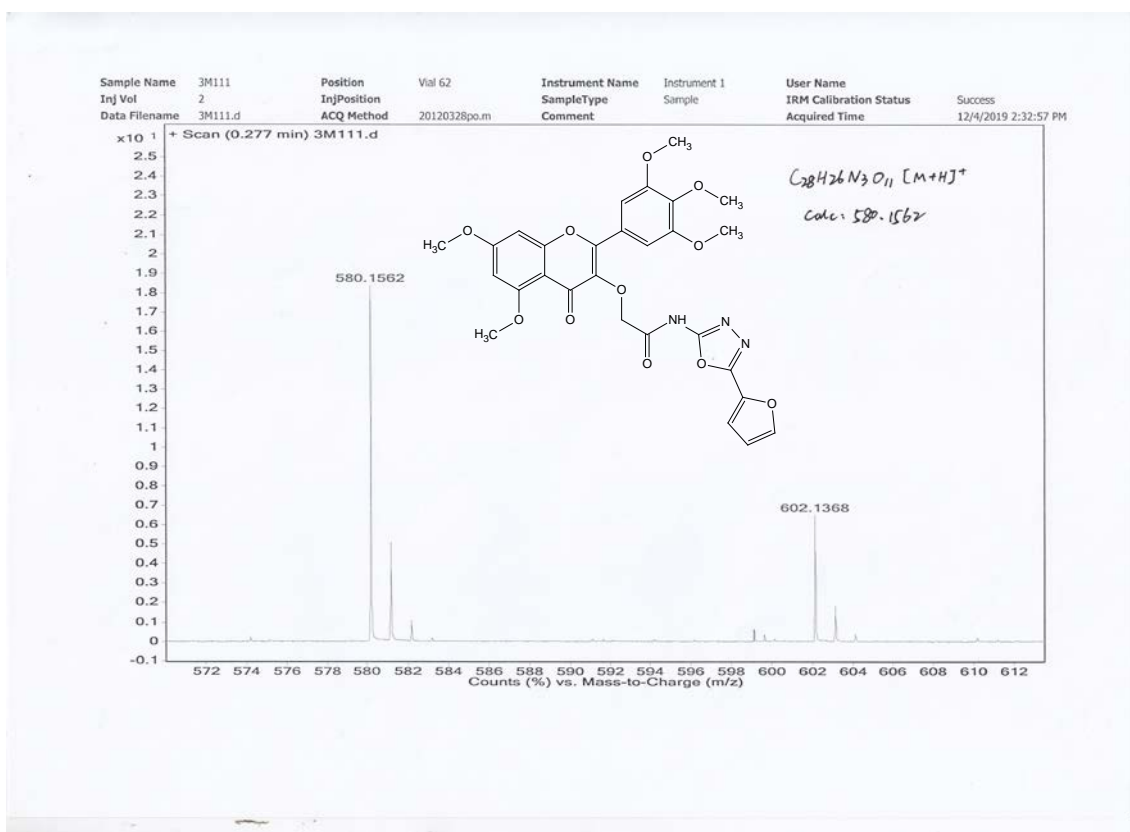




The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound A30

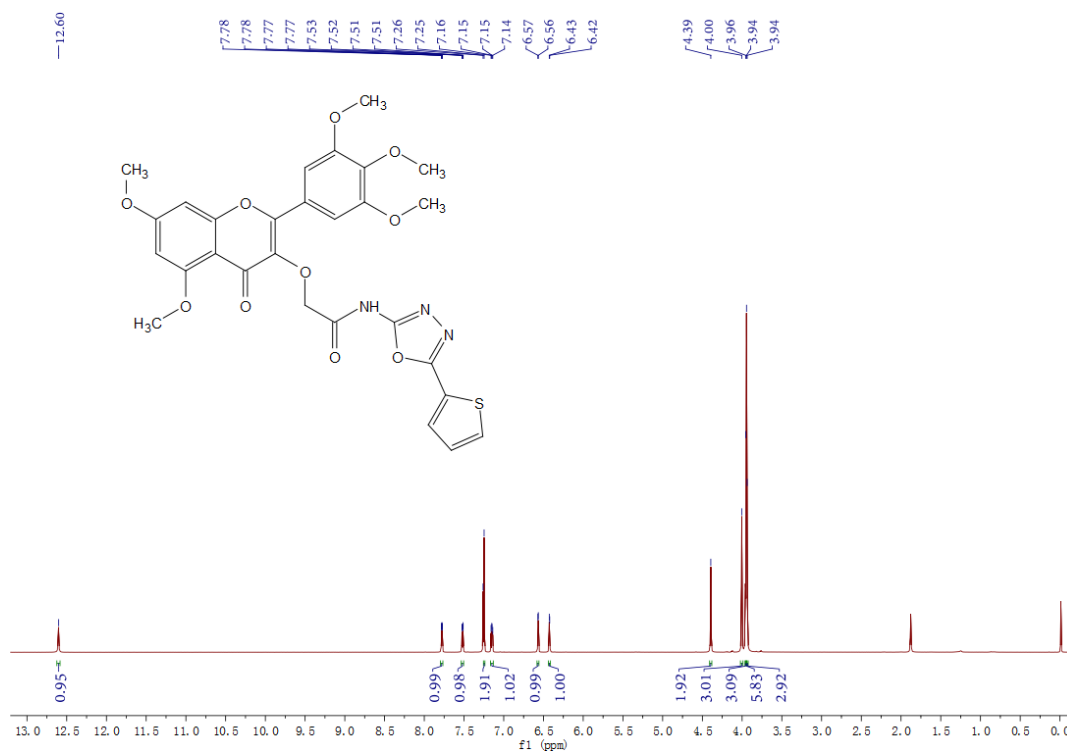
# A31



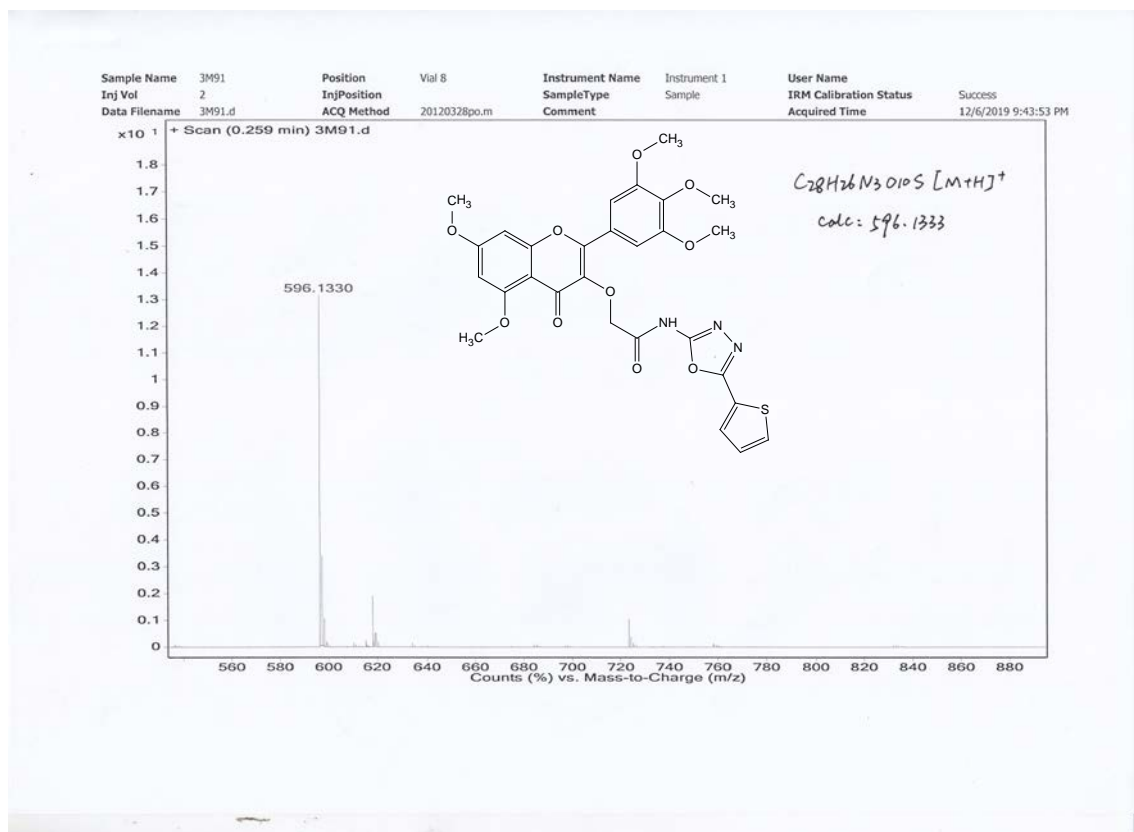
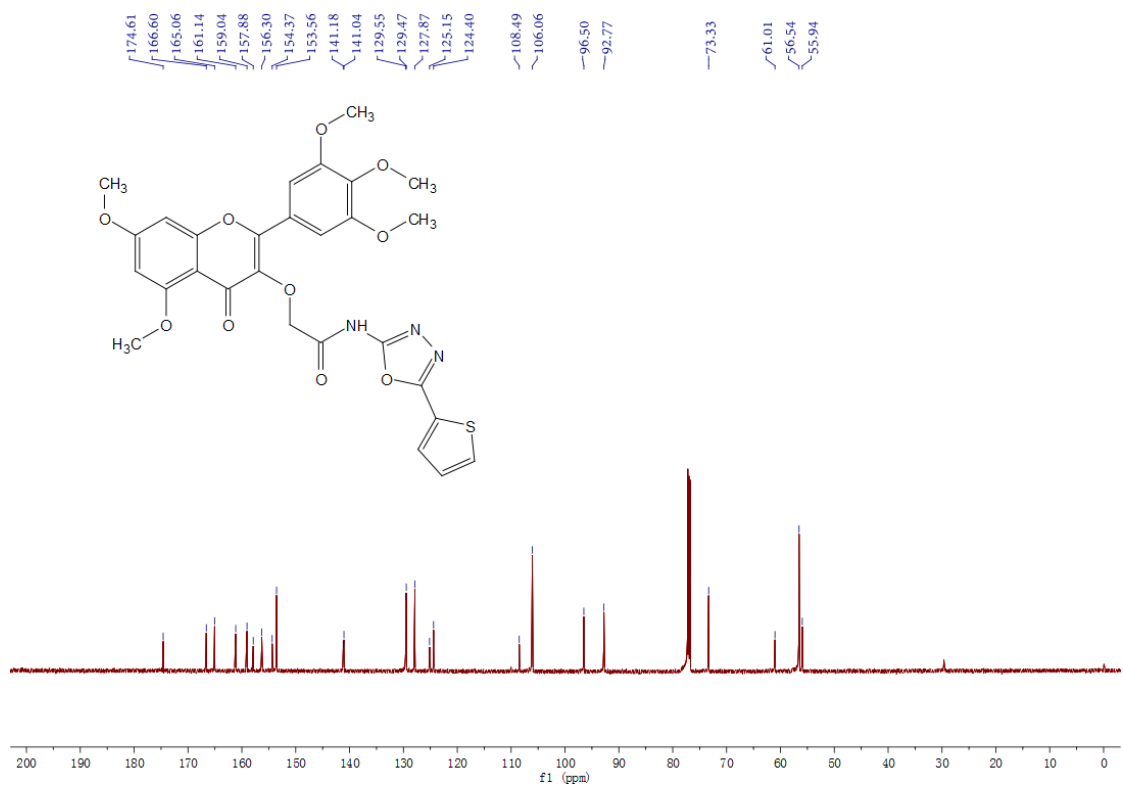


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A31

A32

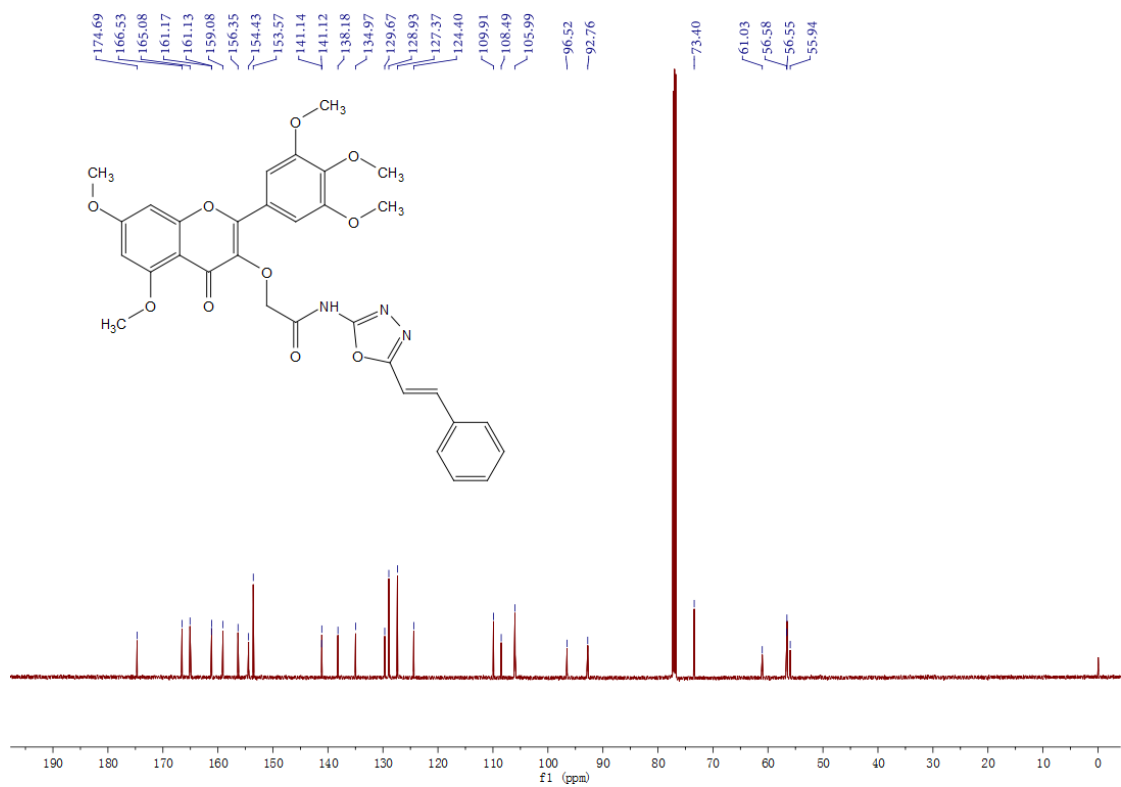
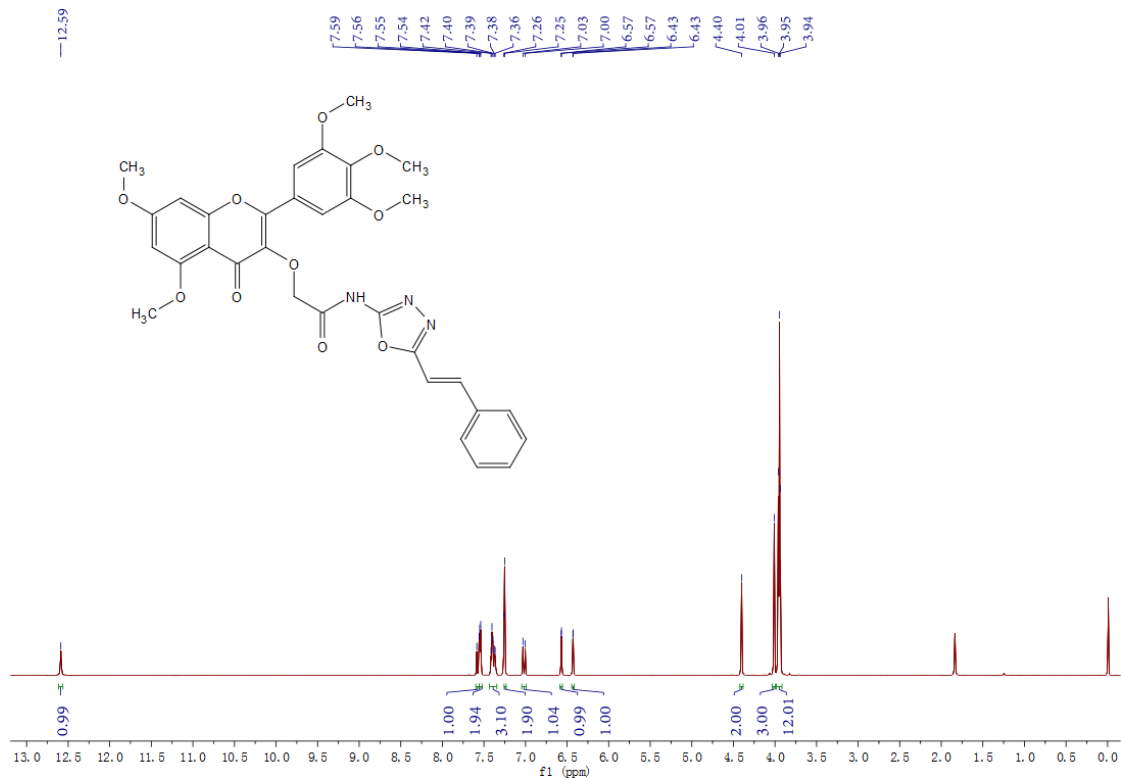


S46

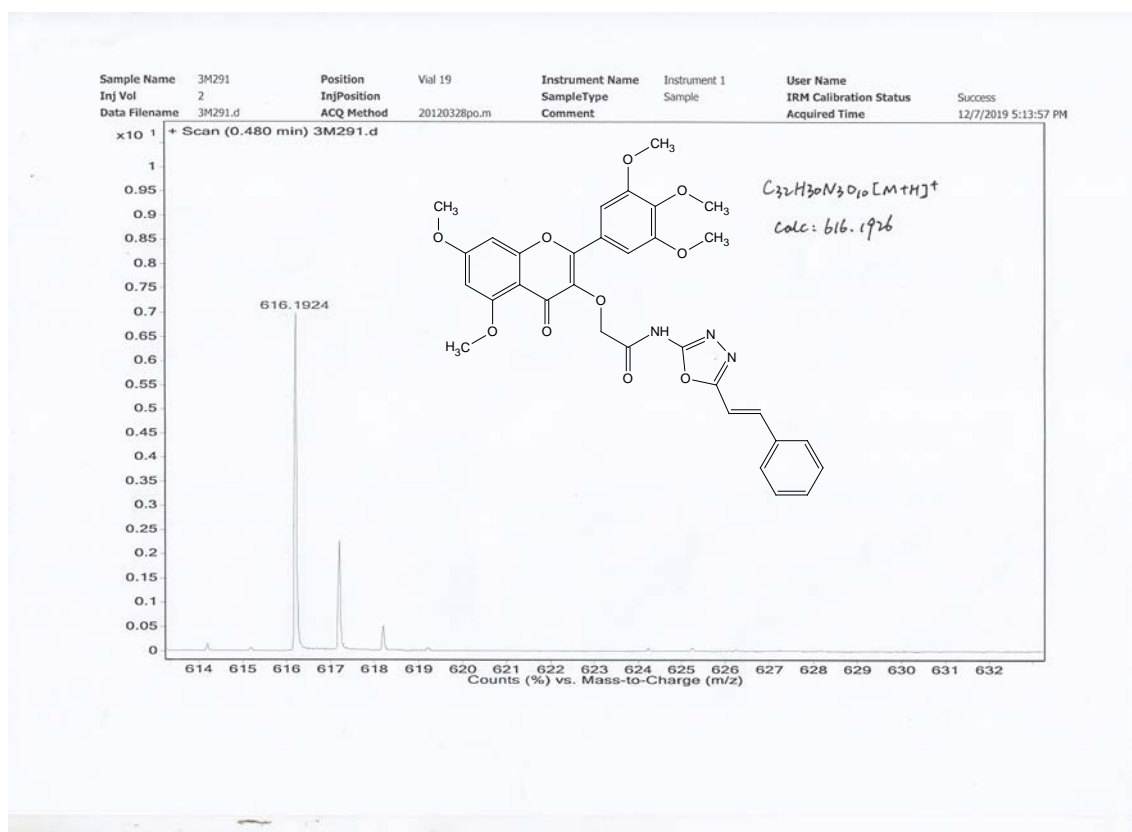


The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound A32

A33

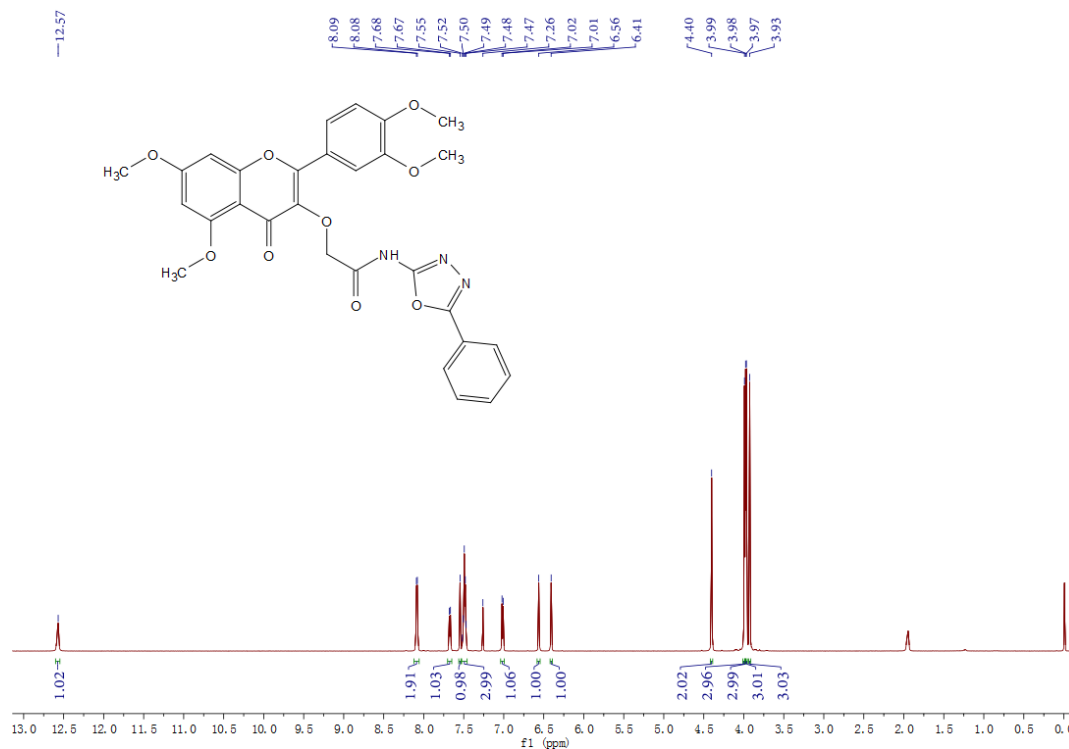


S48

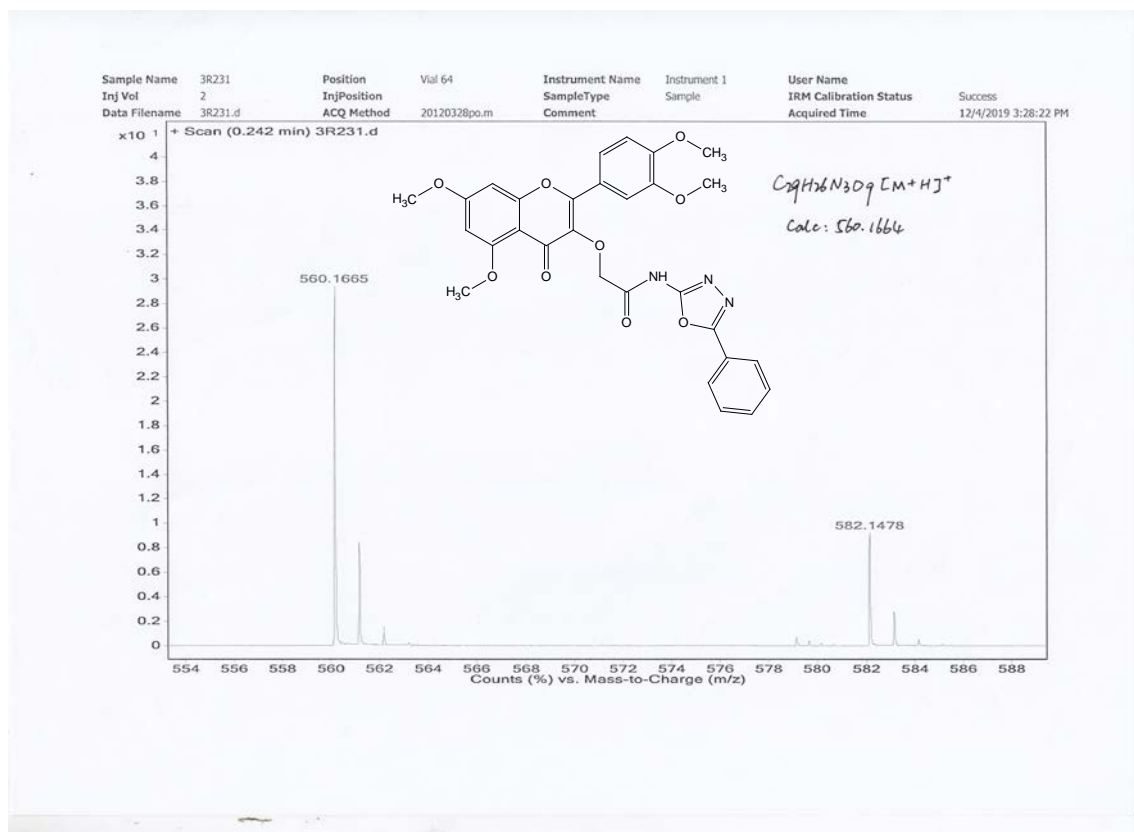
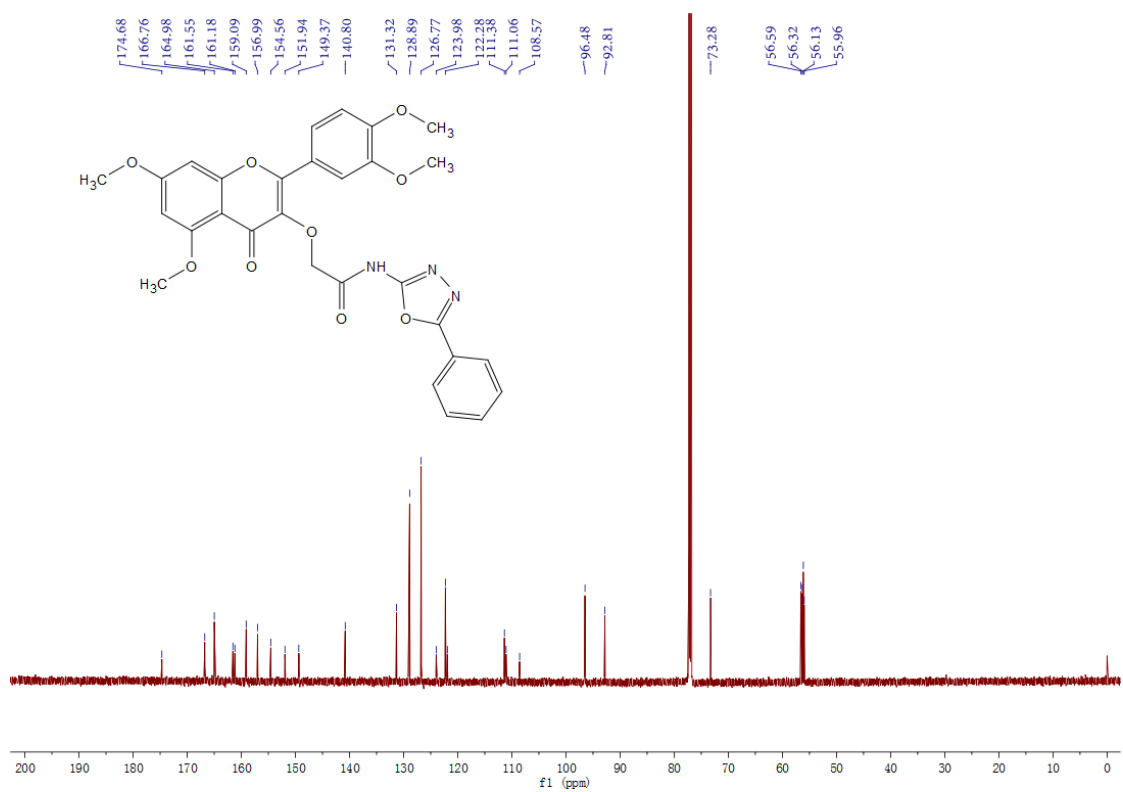


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound A33

B1

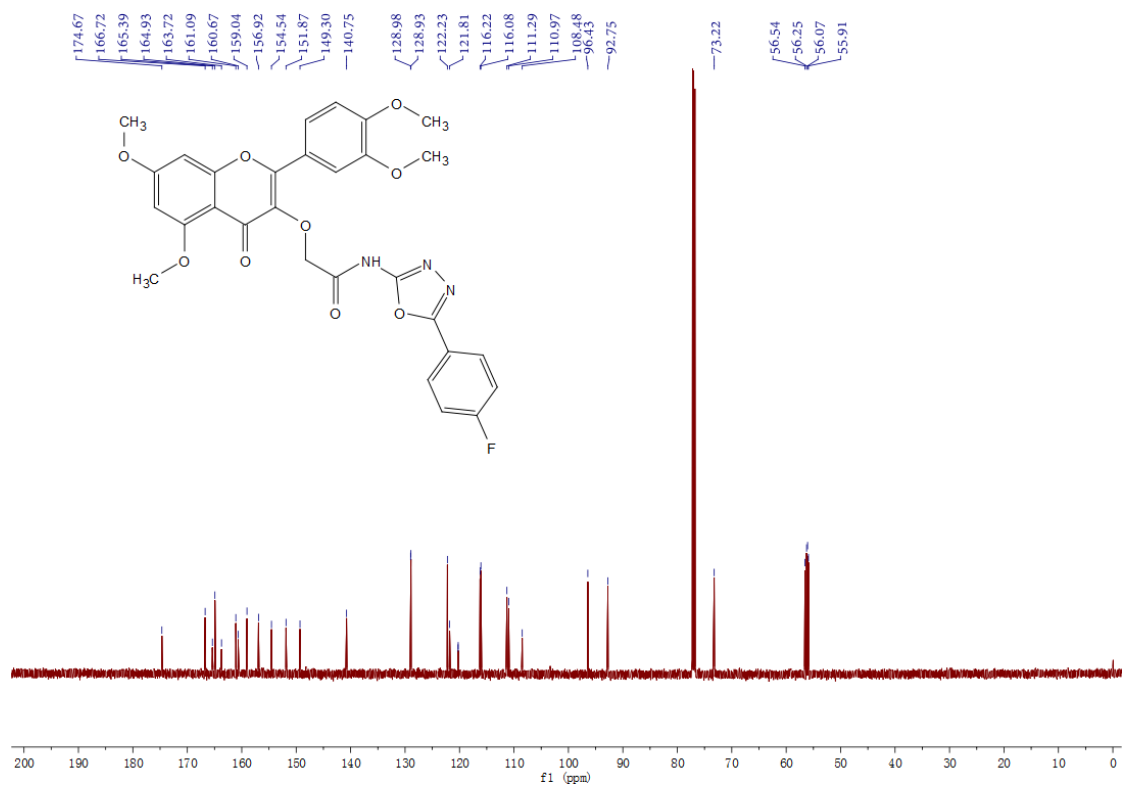
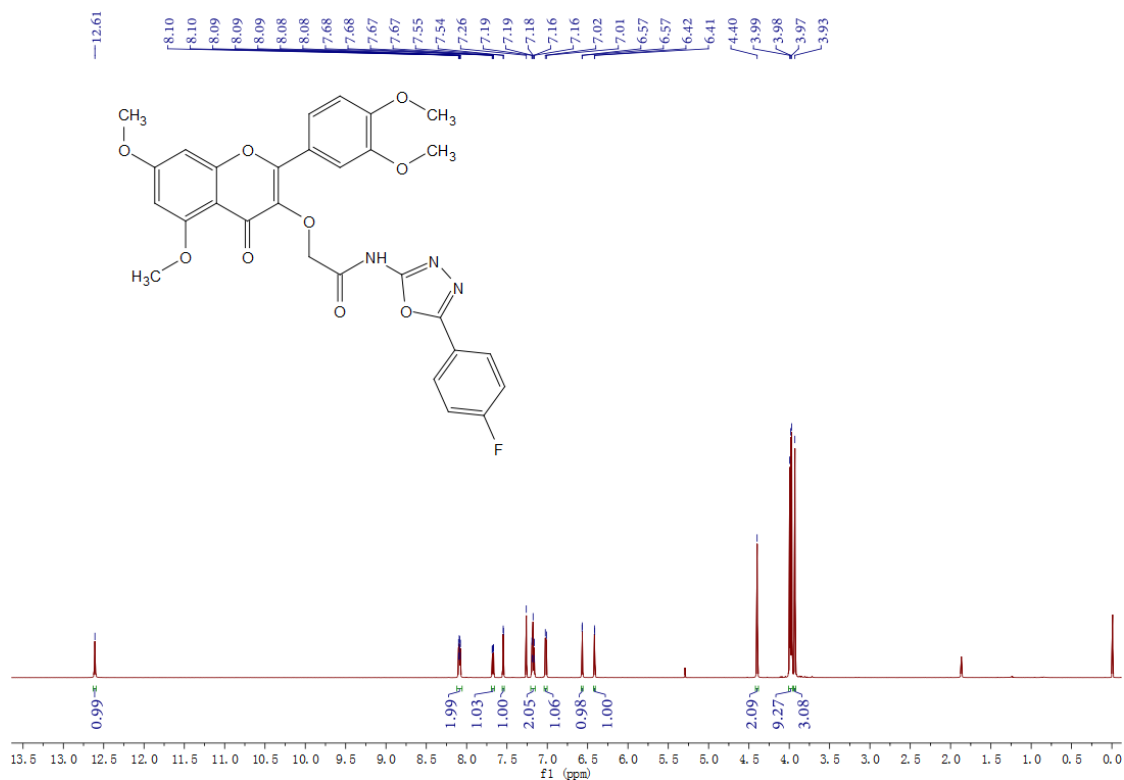


S49



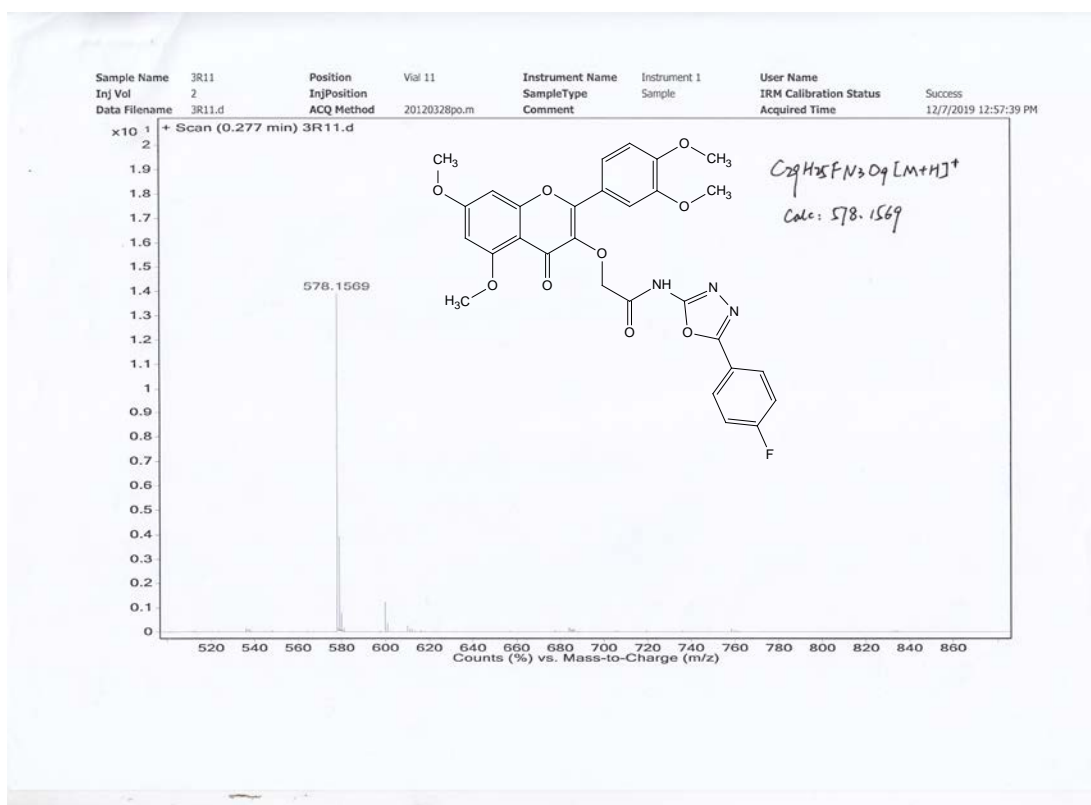
The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound B1

B2



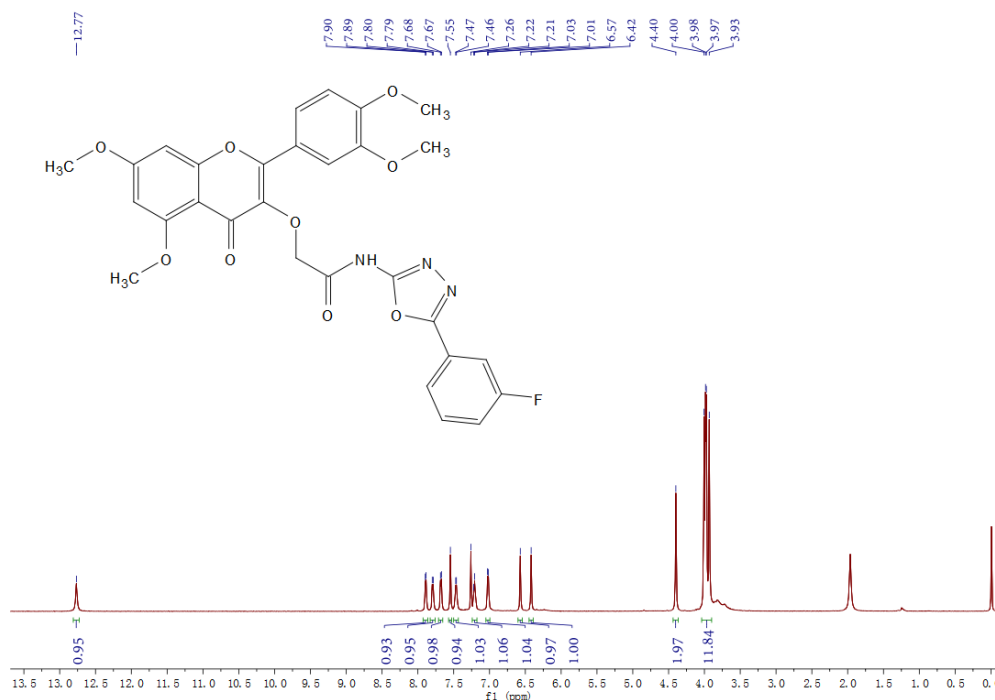
S51





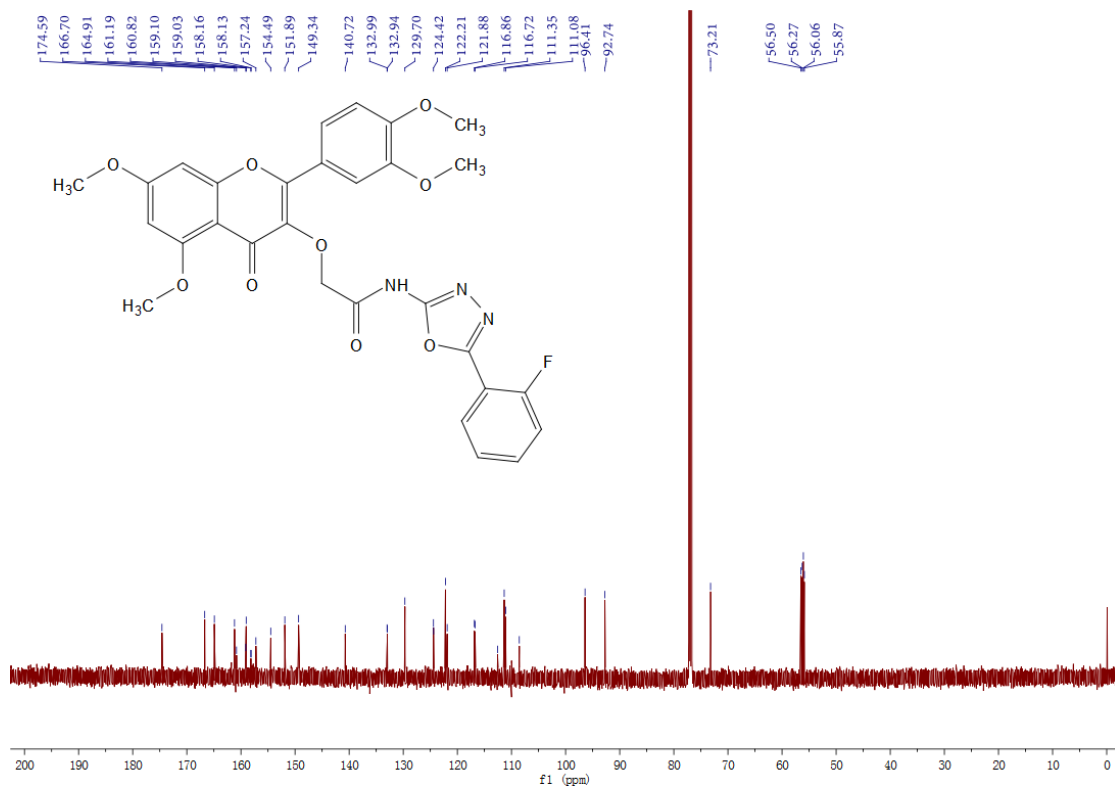
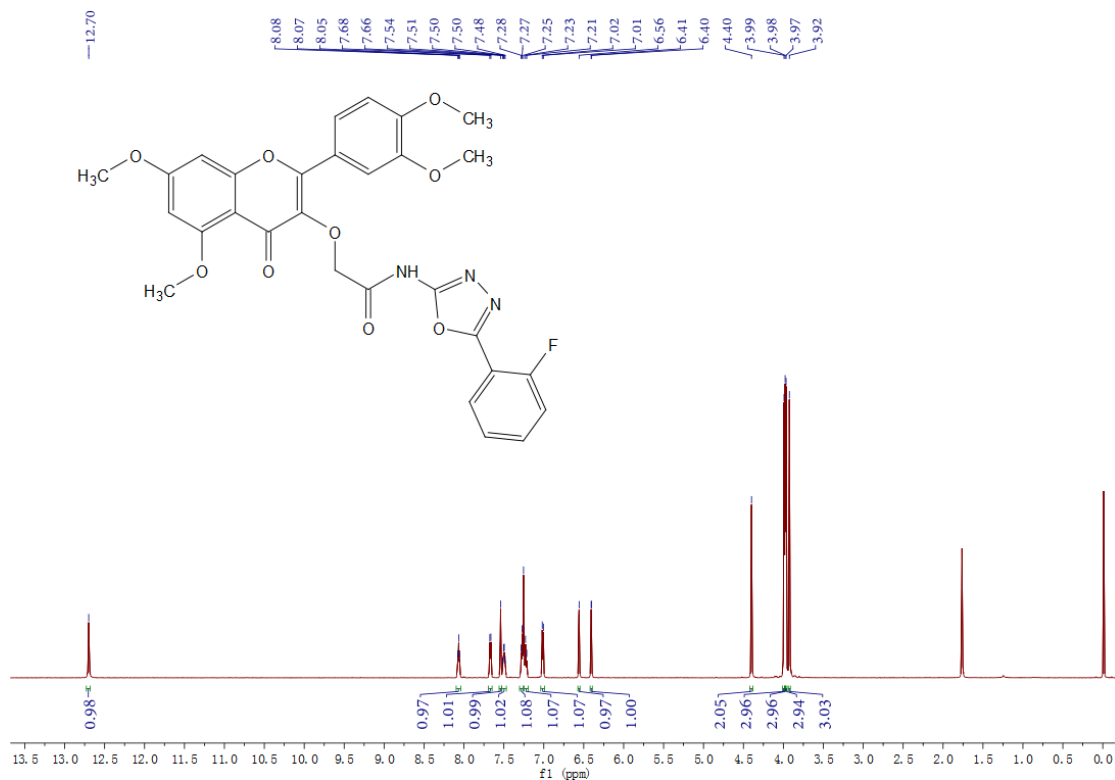
The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B2

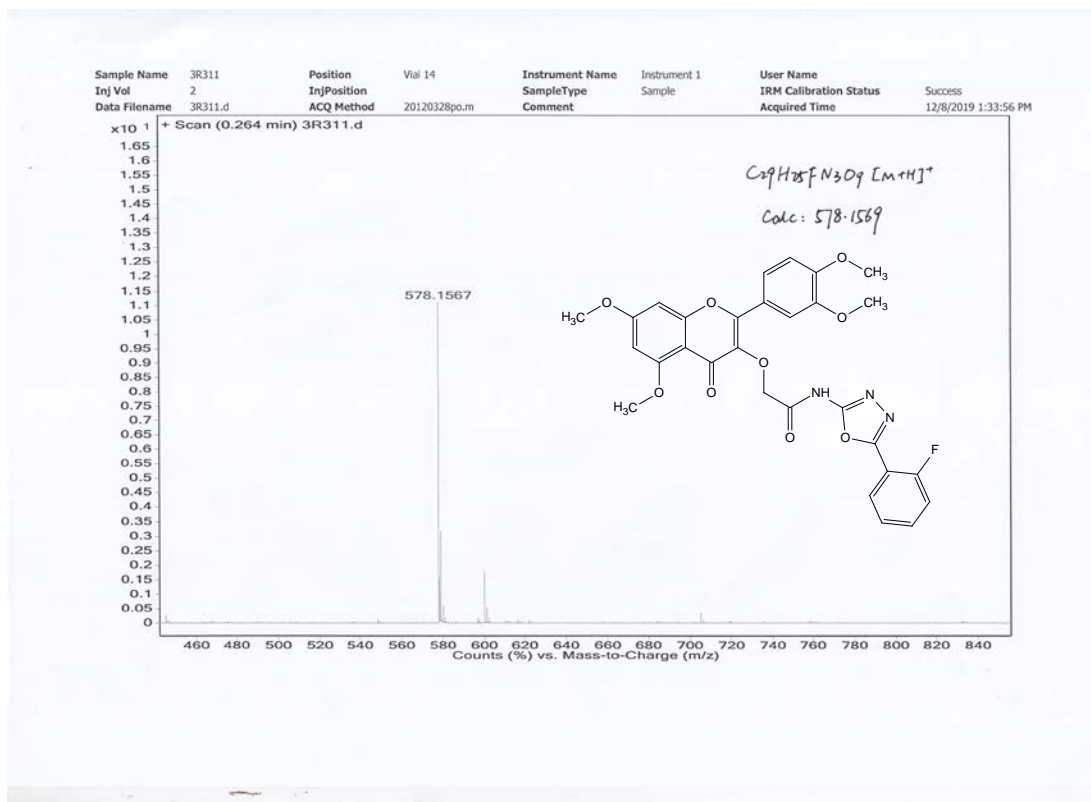
B3



$^1H$  NMR spectrum of compound B3

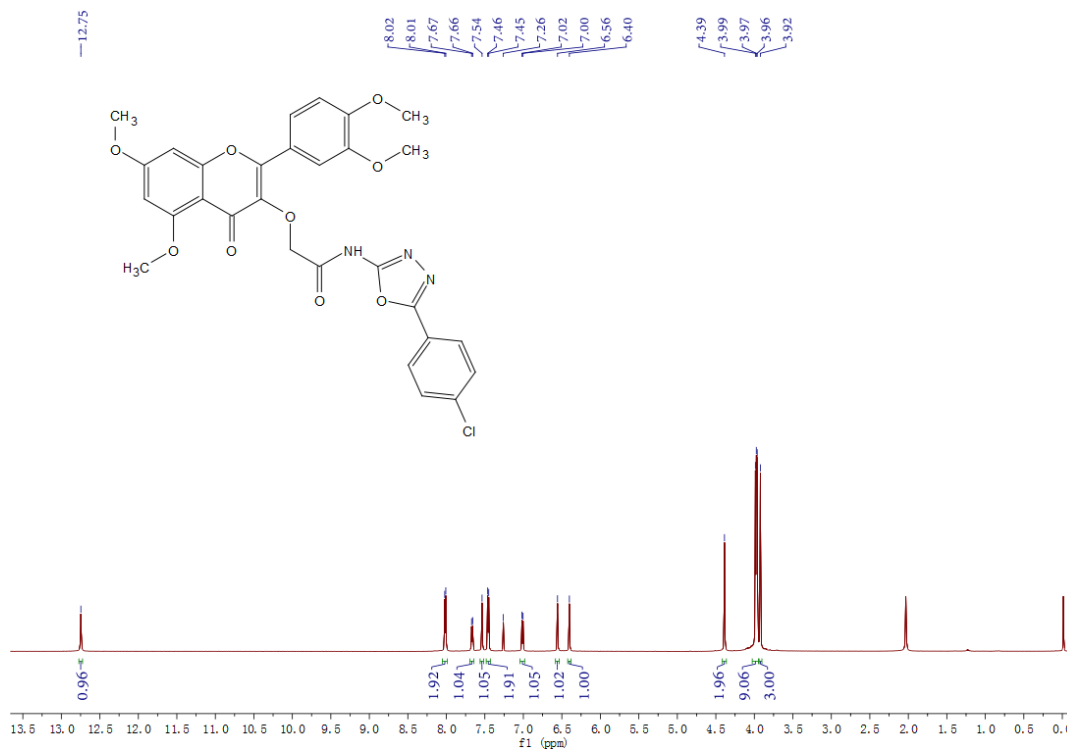
B4



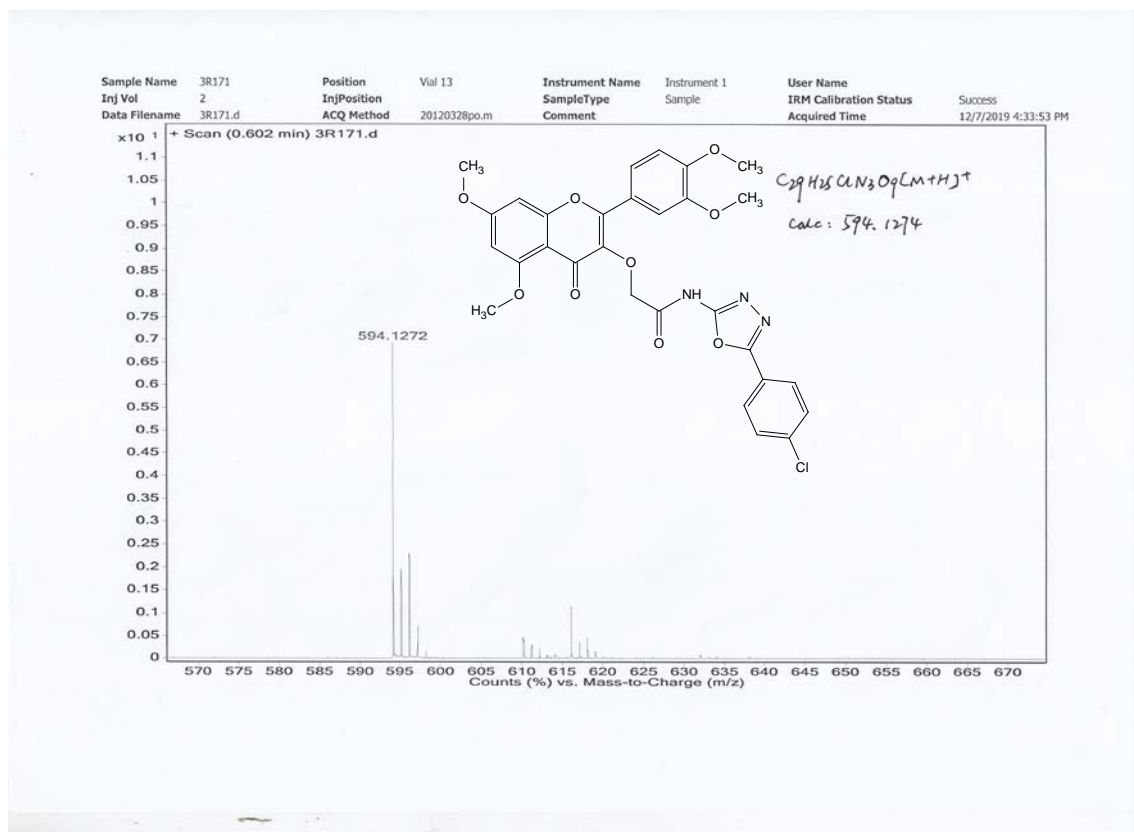
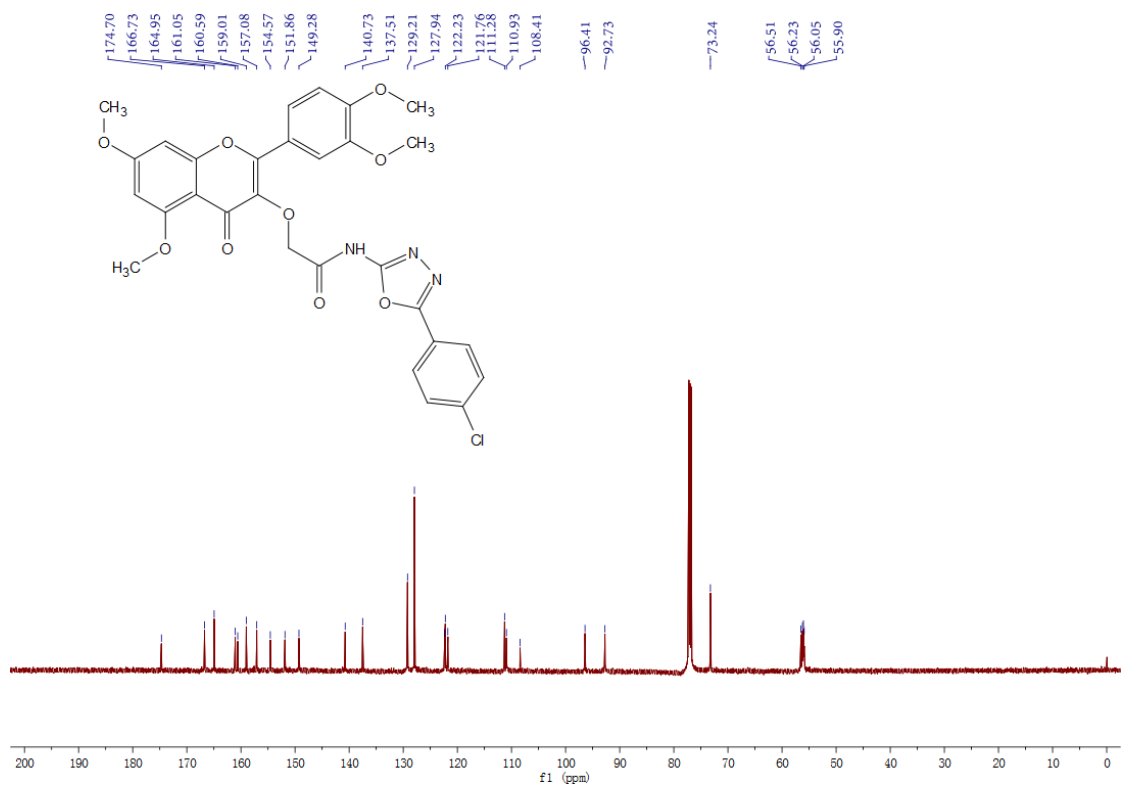


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B4

B5

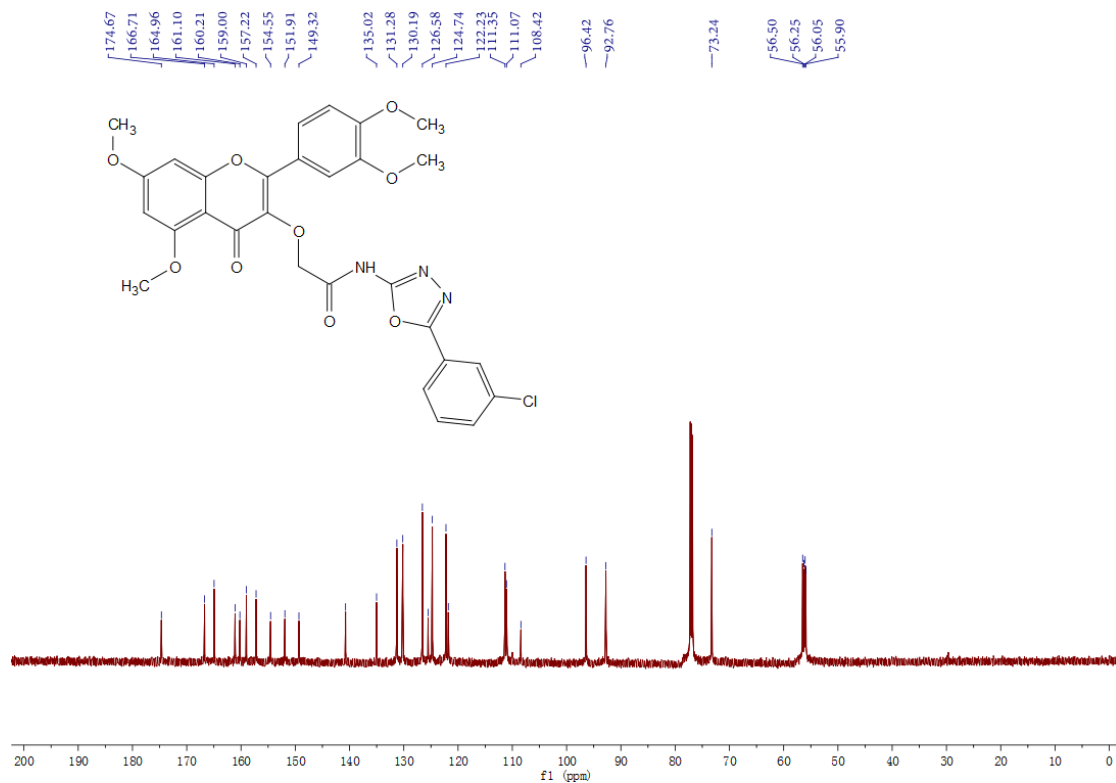
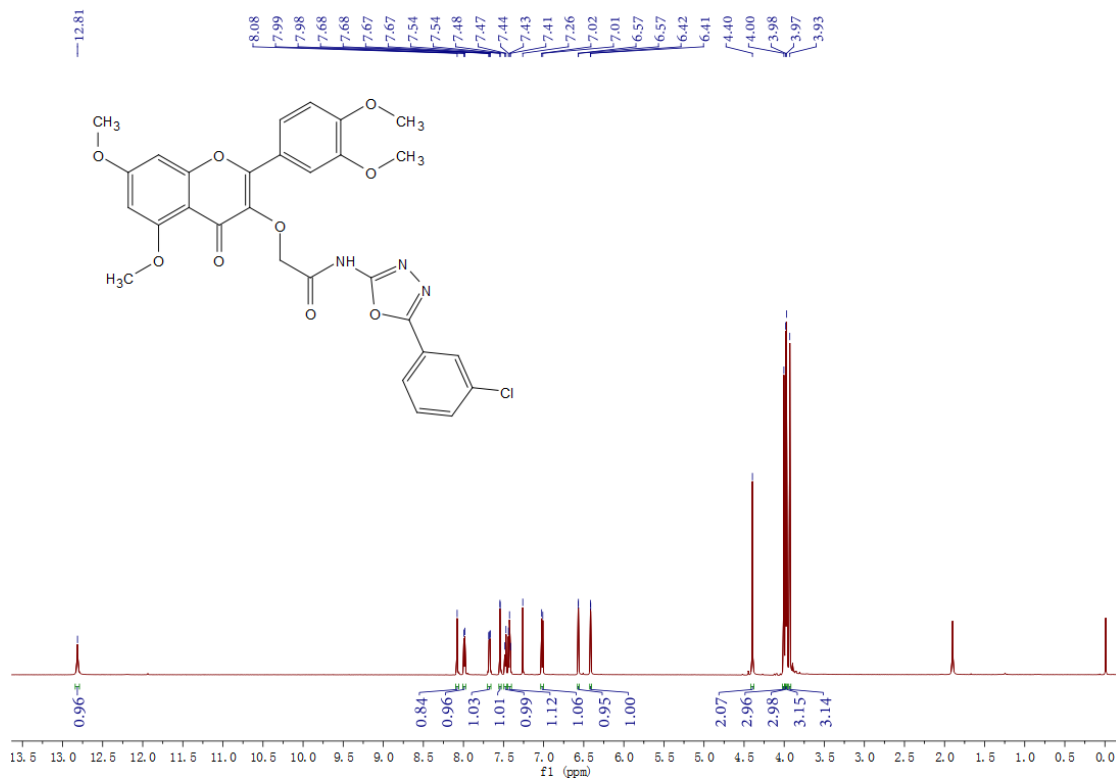


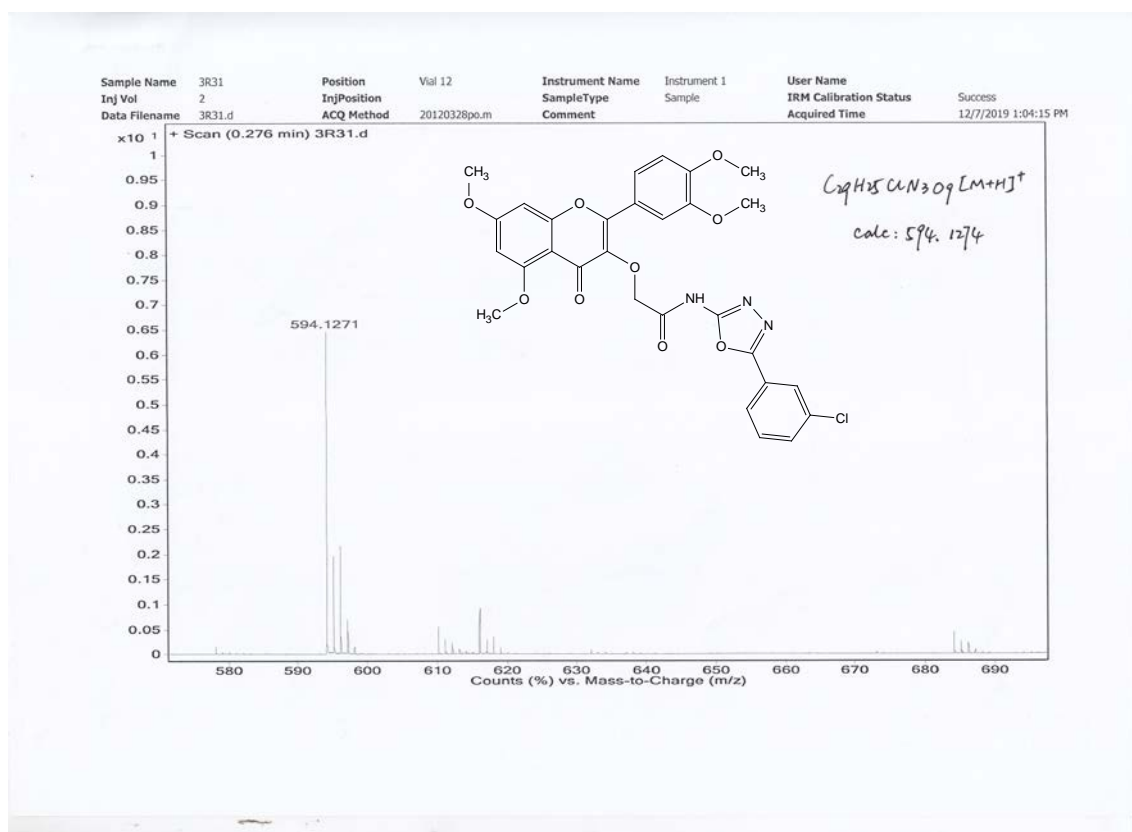
S54



The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B5

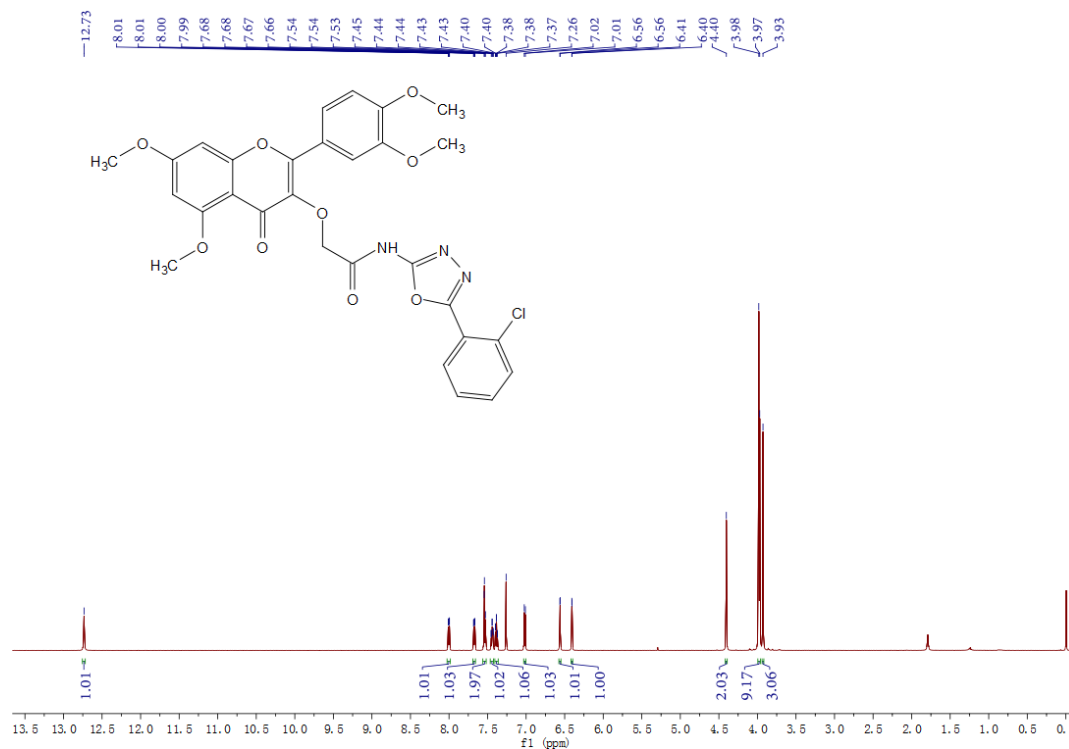
B6



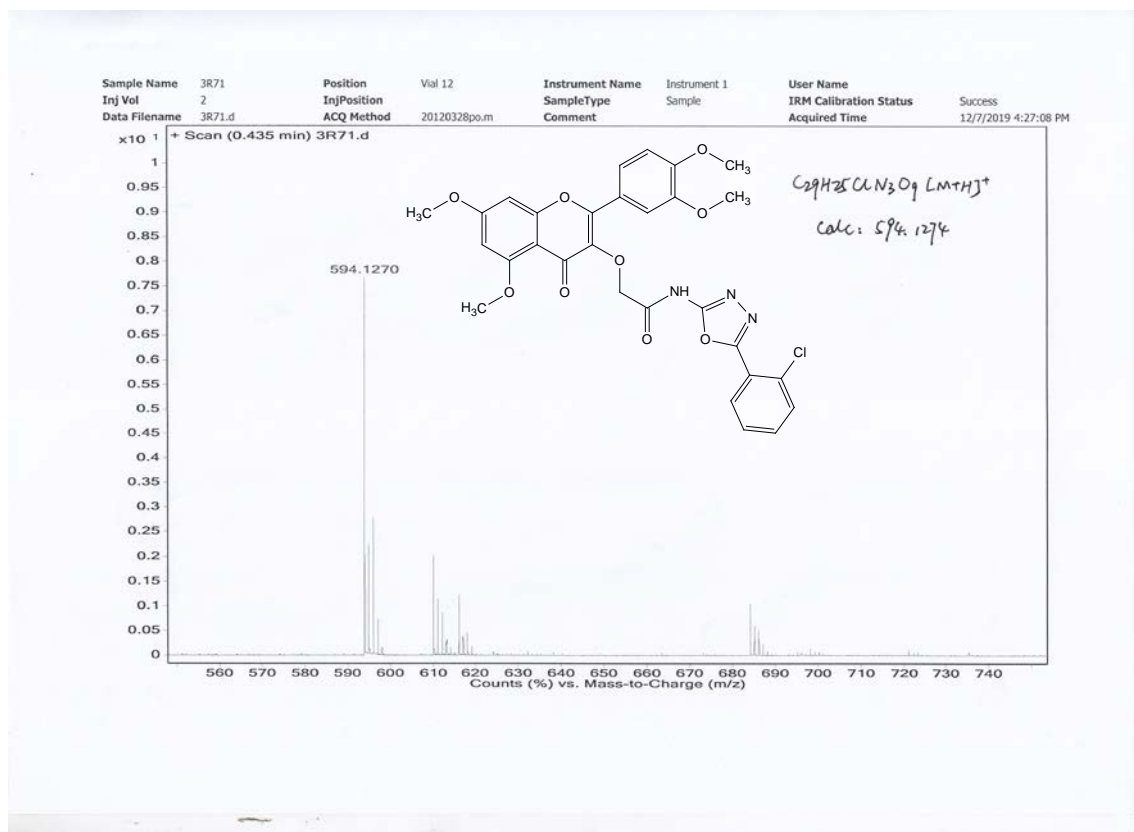
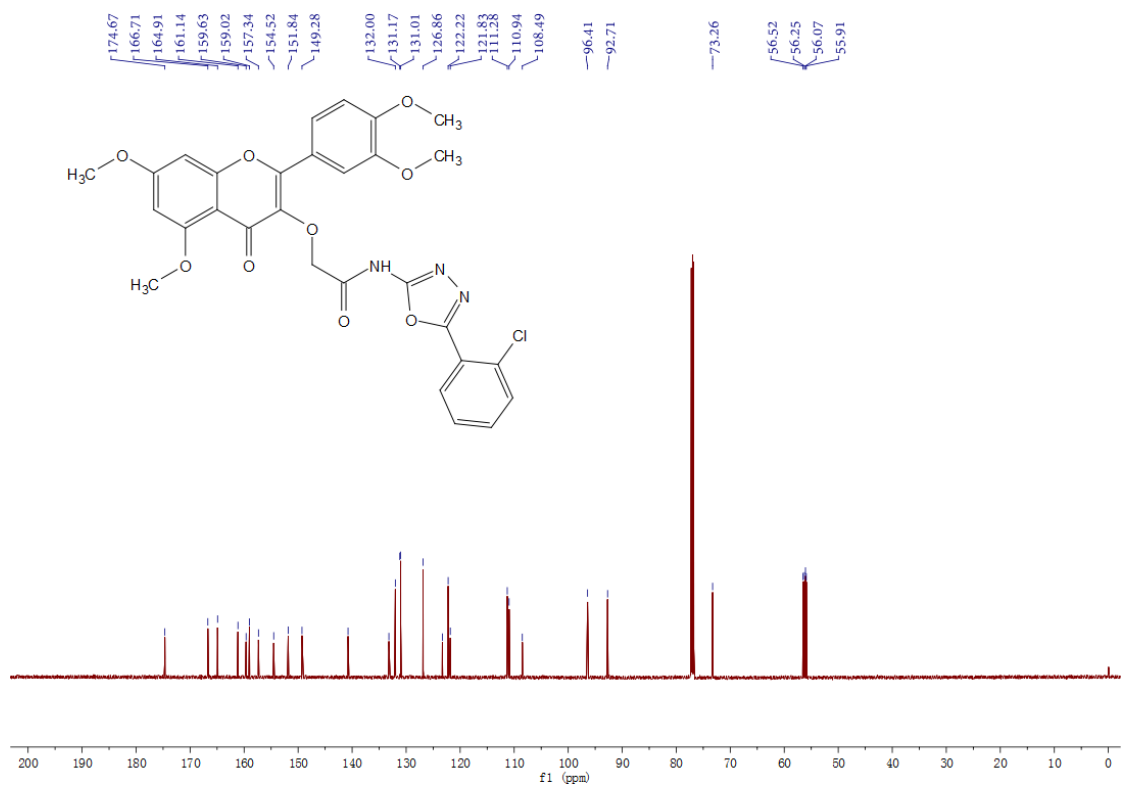


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B6

**B7**

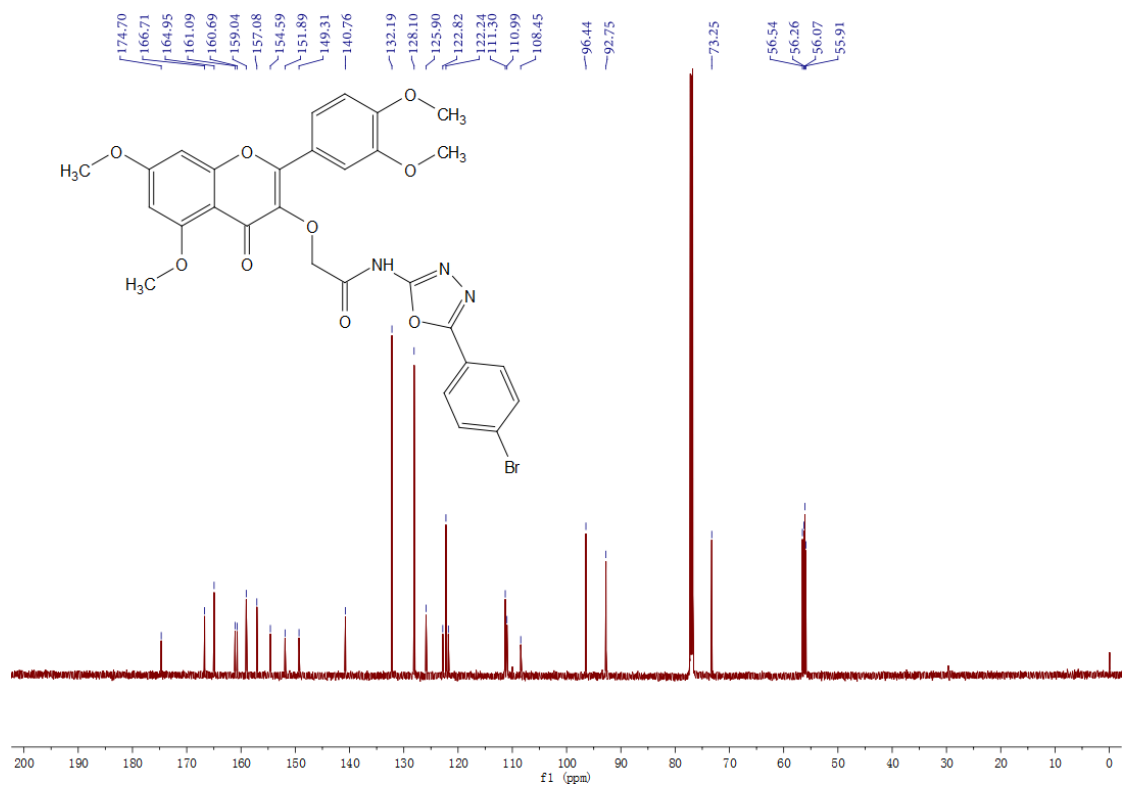
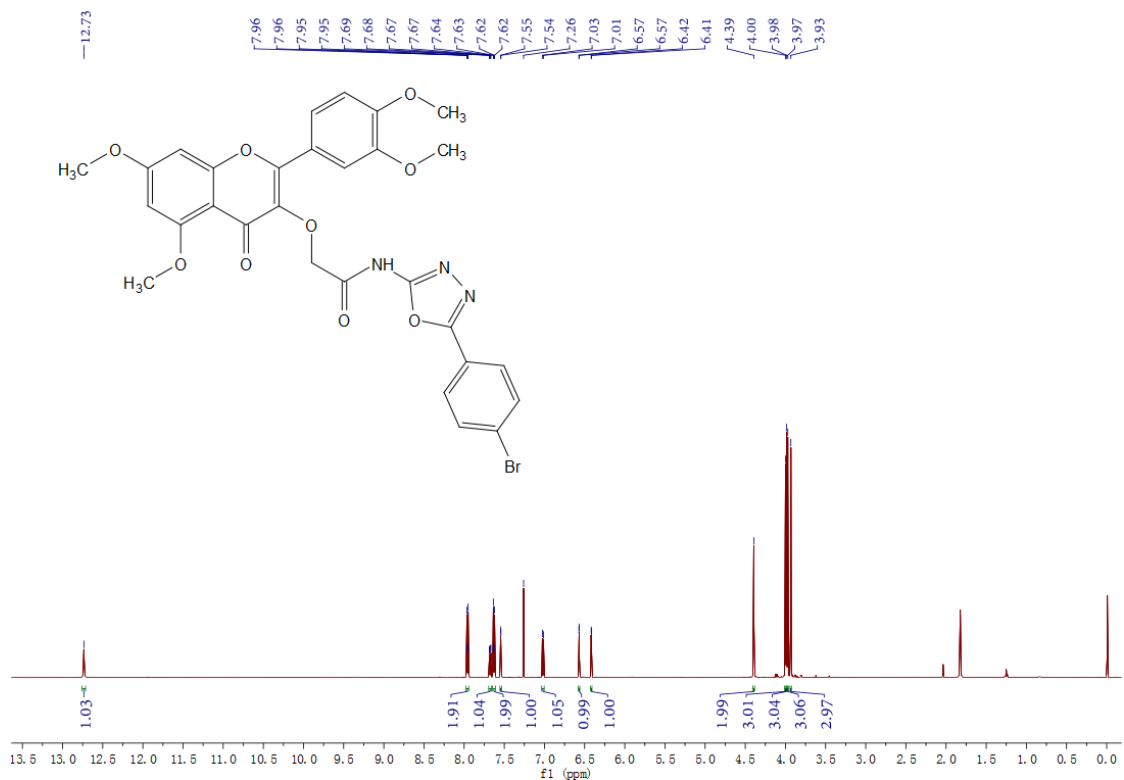


**S57**

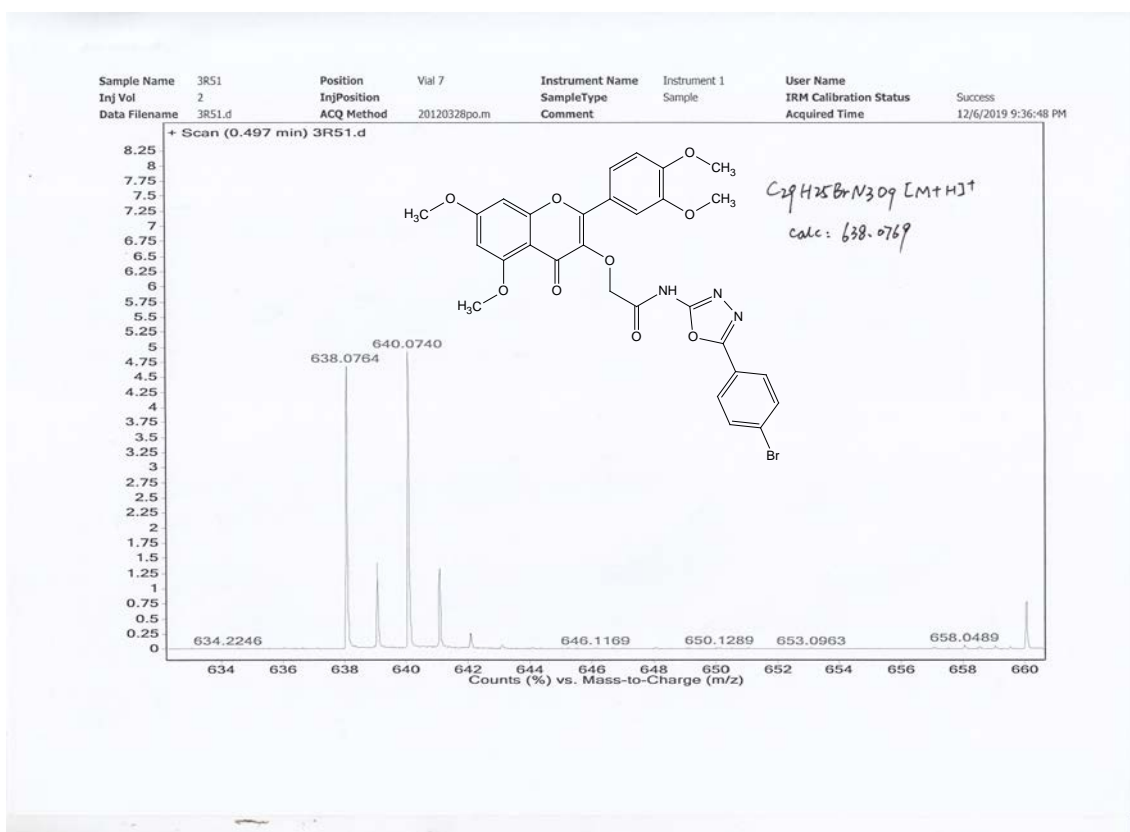


The spectrum of <sup>1</sup>H NMR, <sup>13</sup>C NMR and HRMS of compound B7

B8

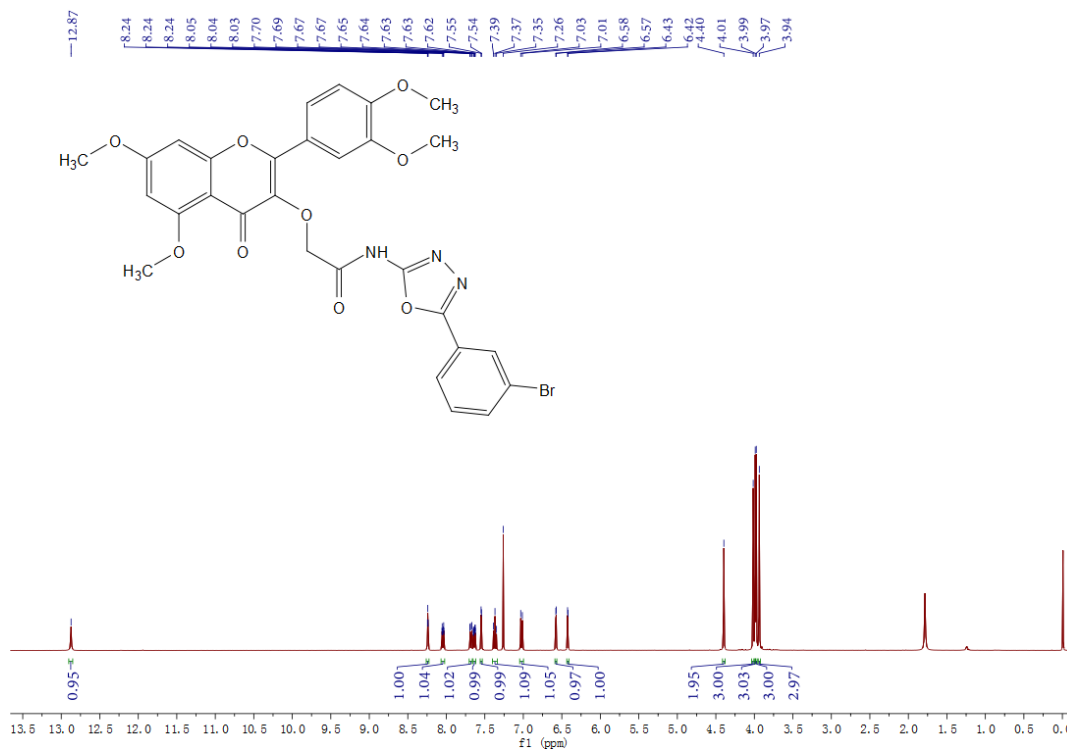




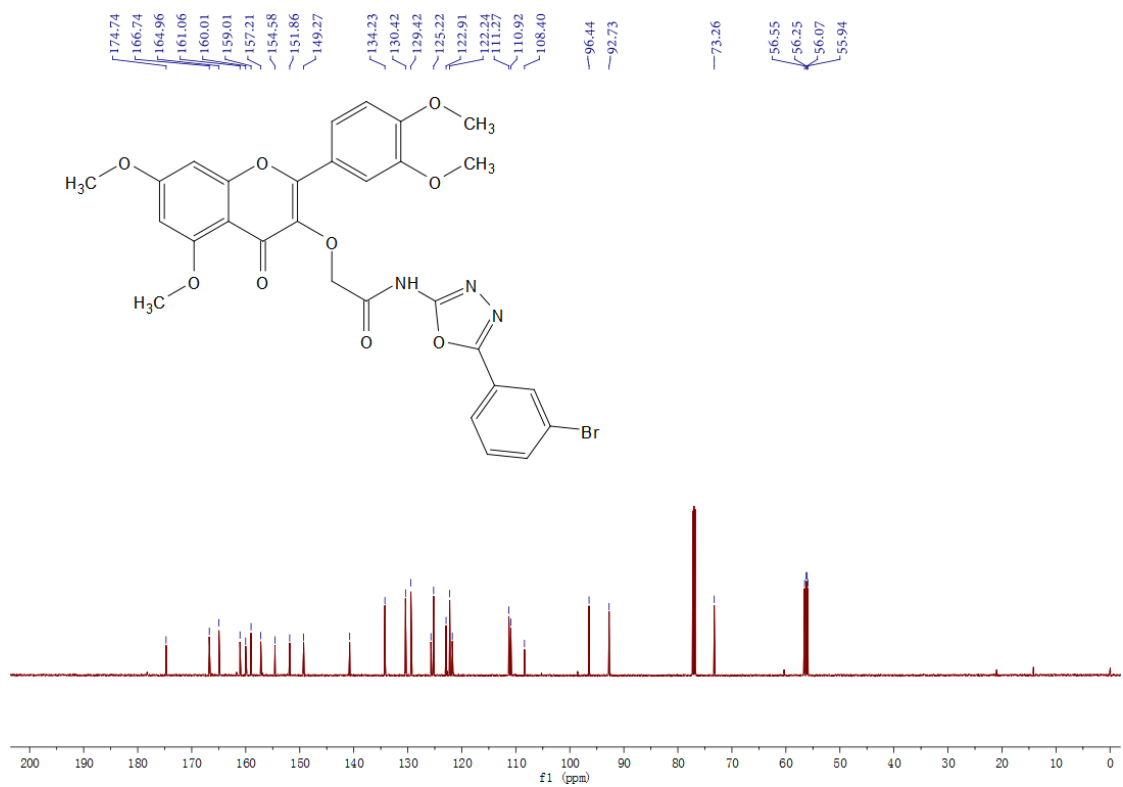


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B8

**B9**

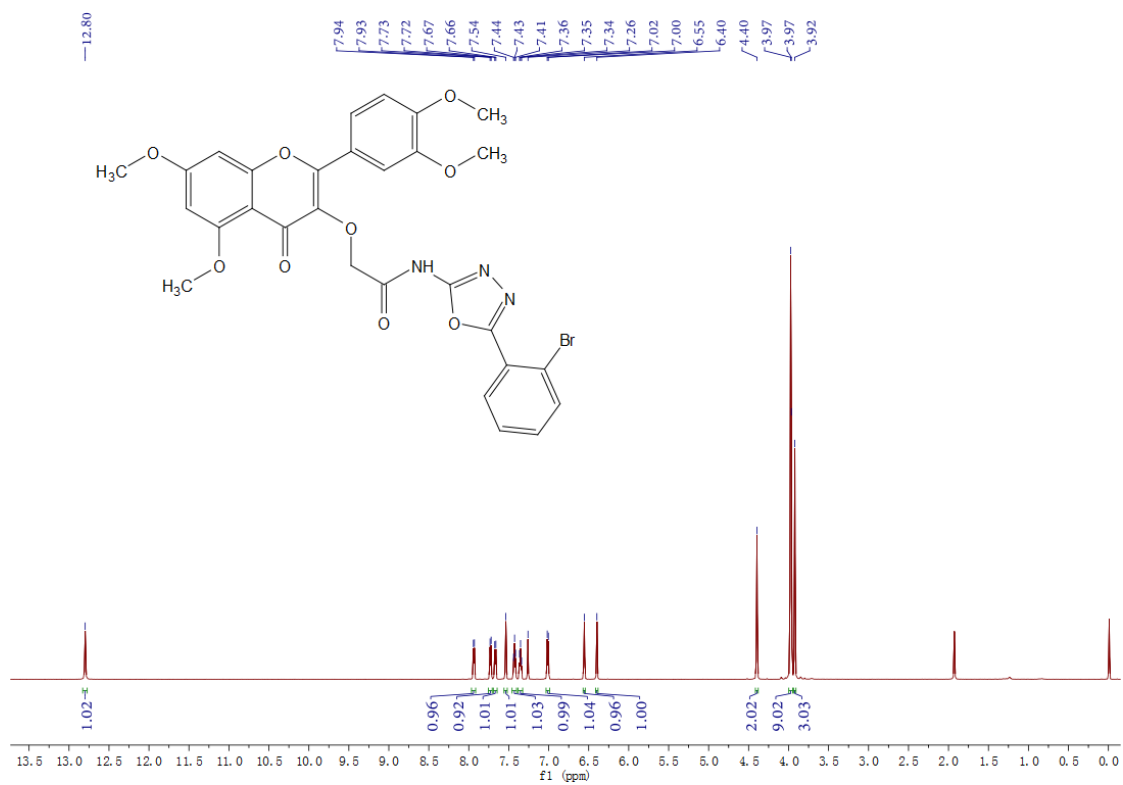


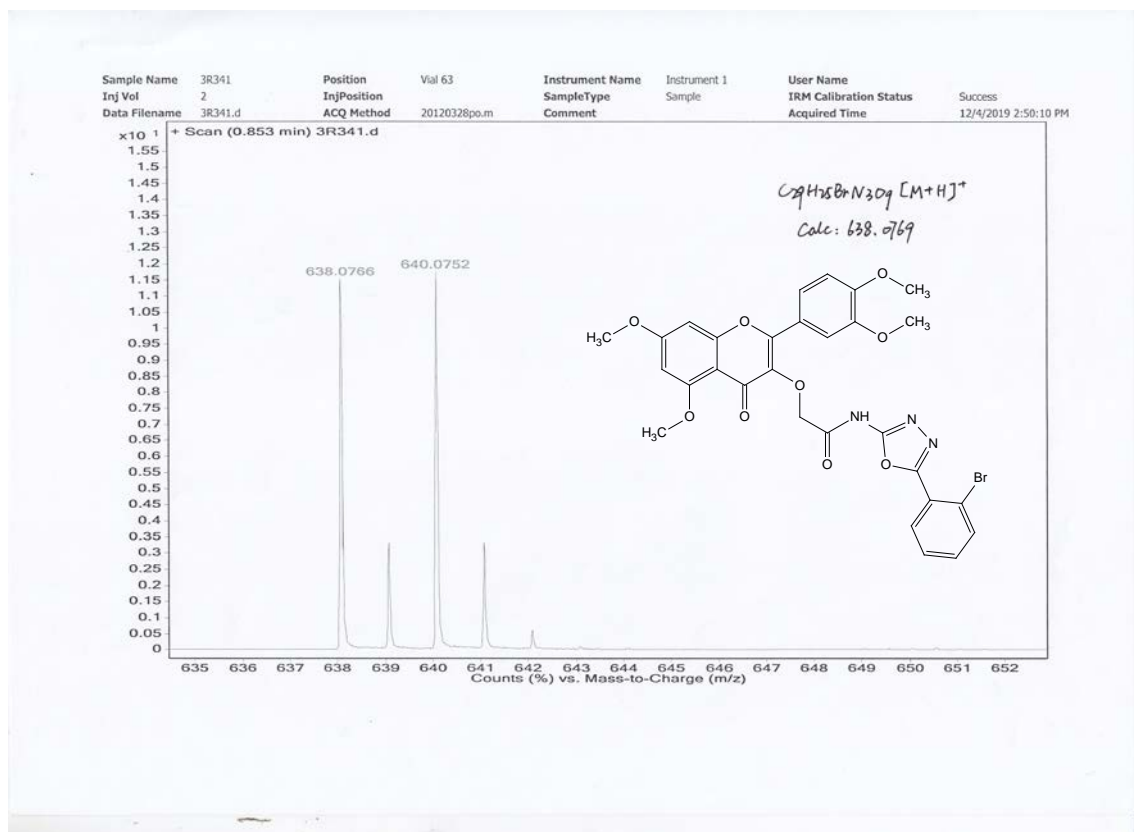
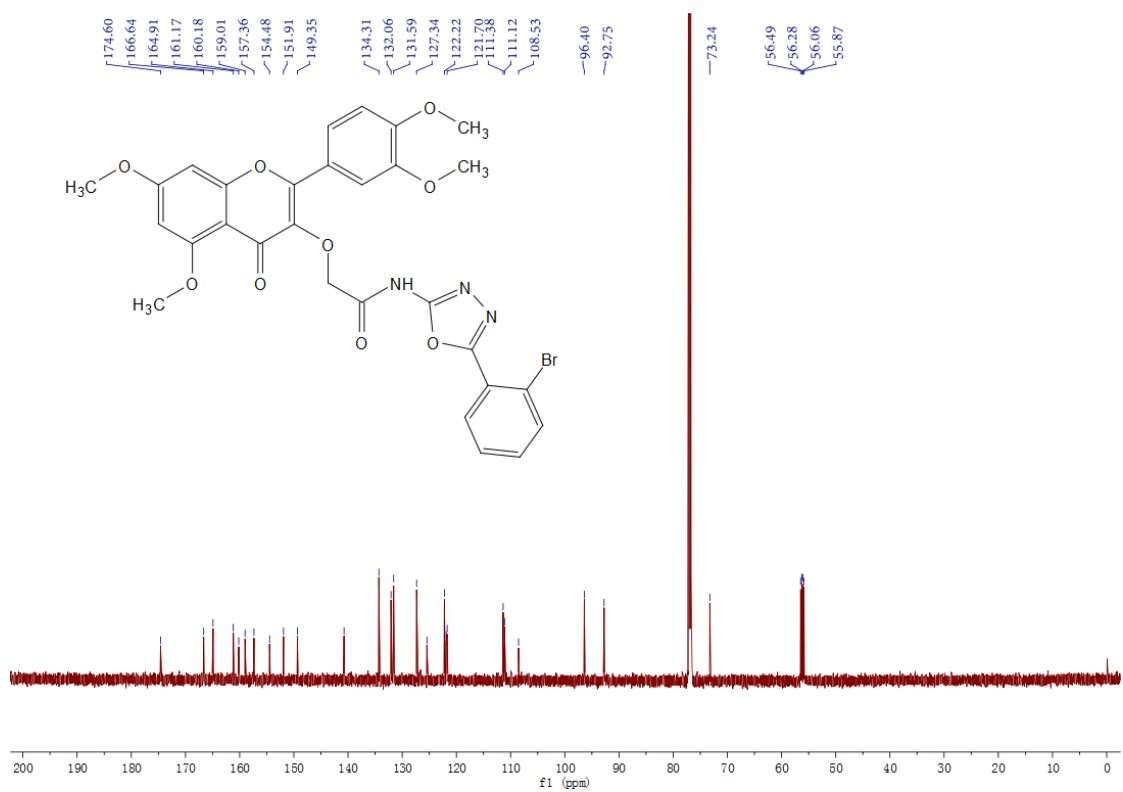
**S60**



**<sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound B9**

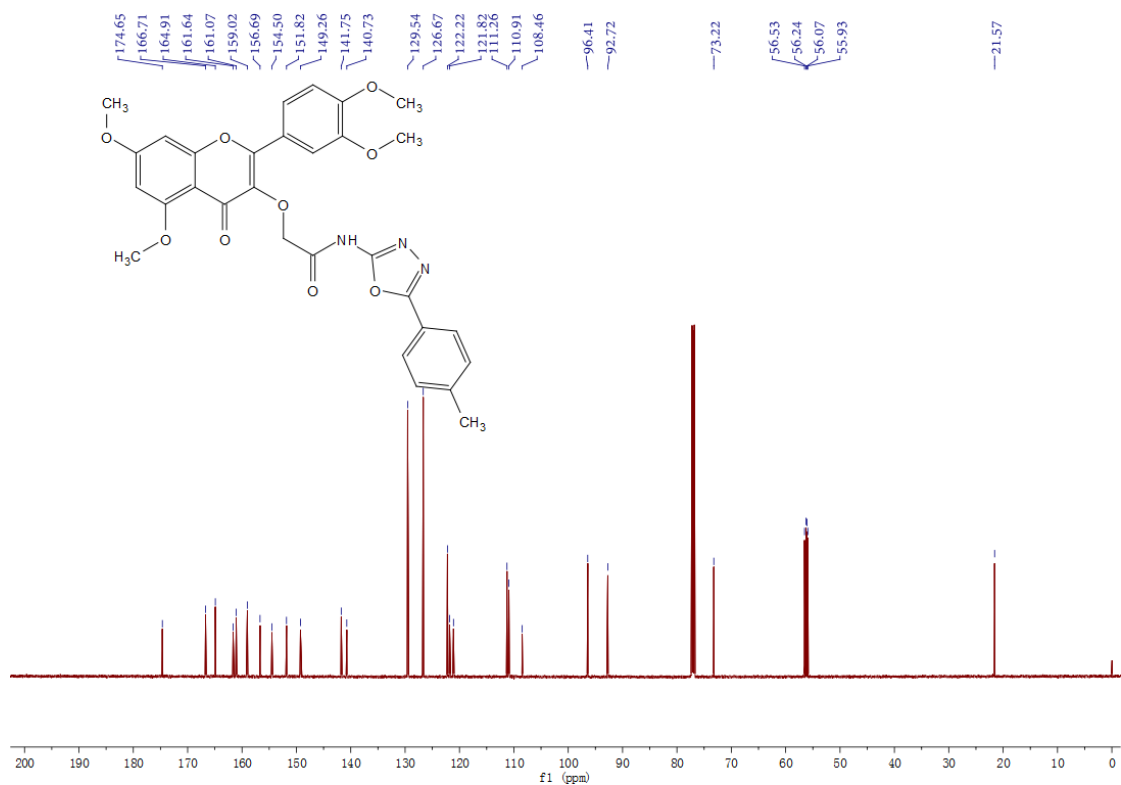
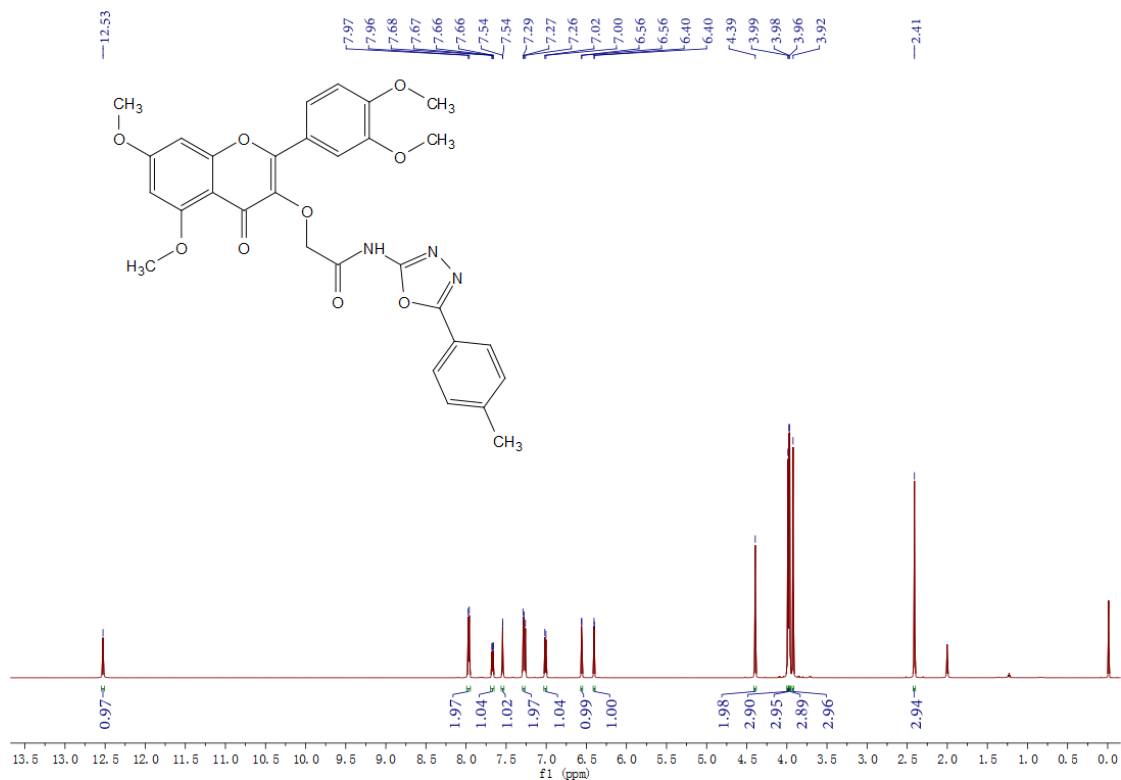
**B10**



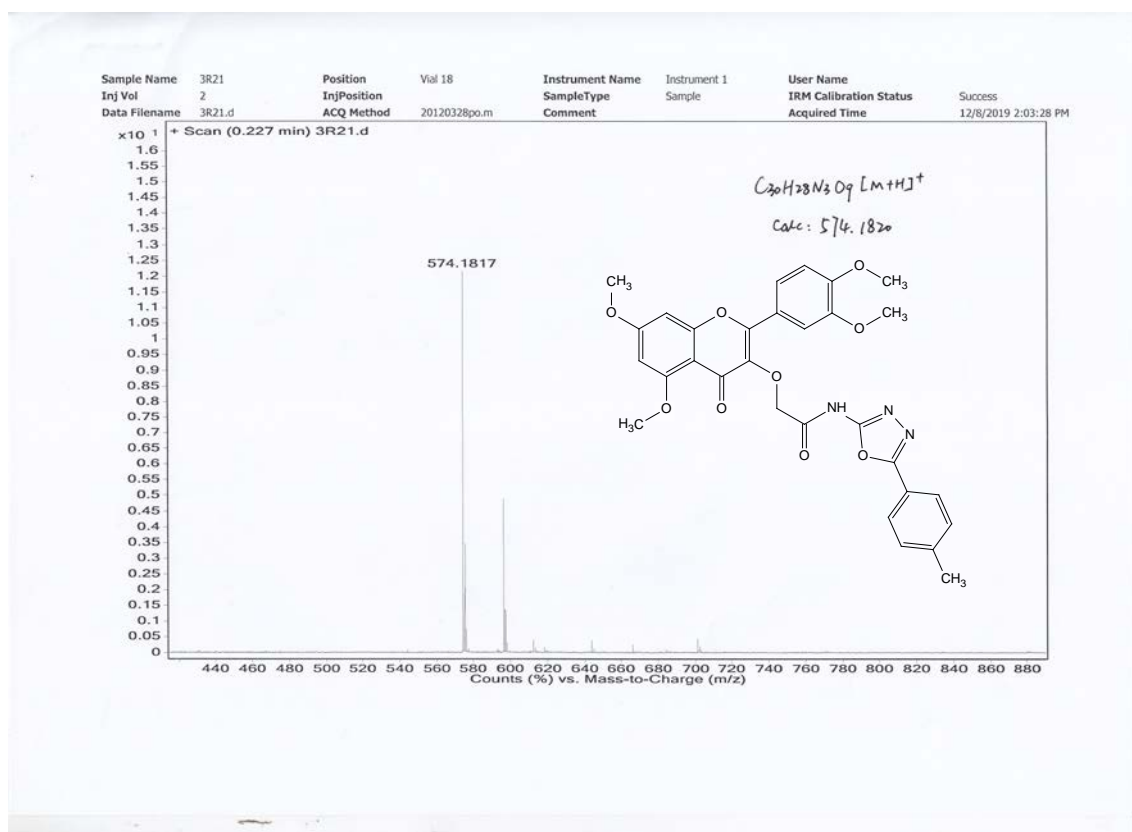


The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound B10

B11

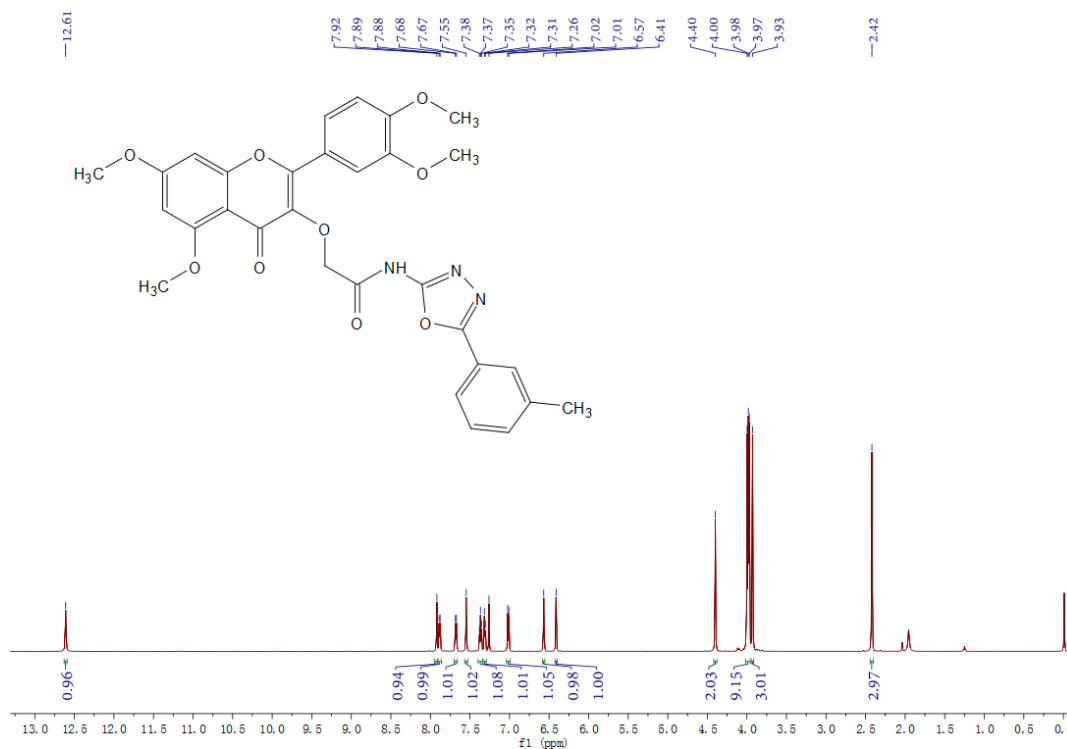


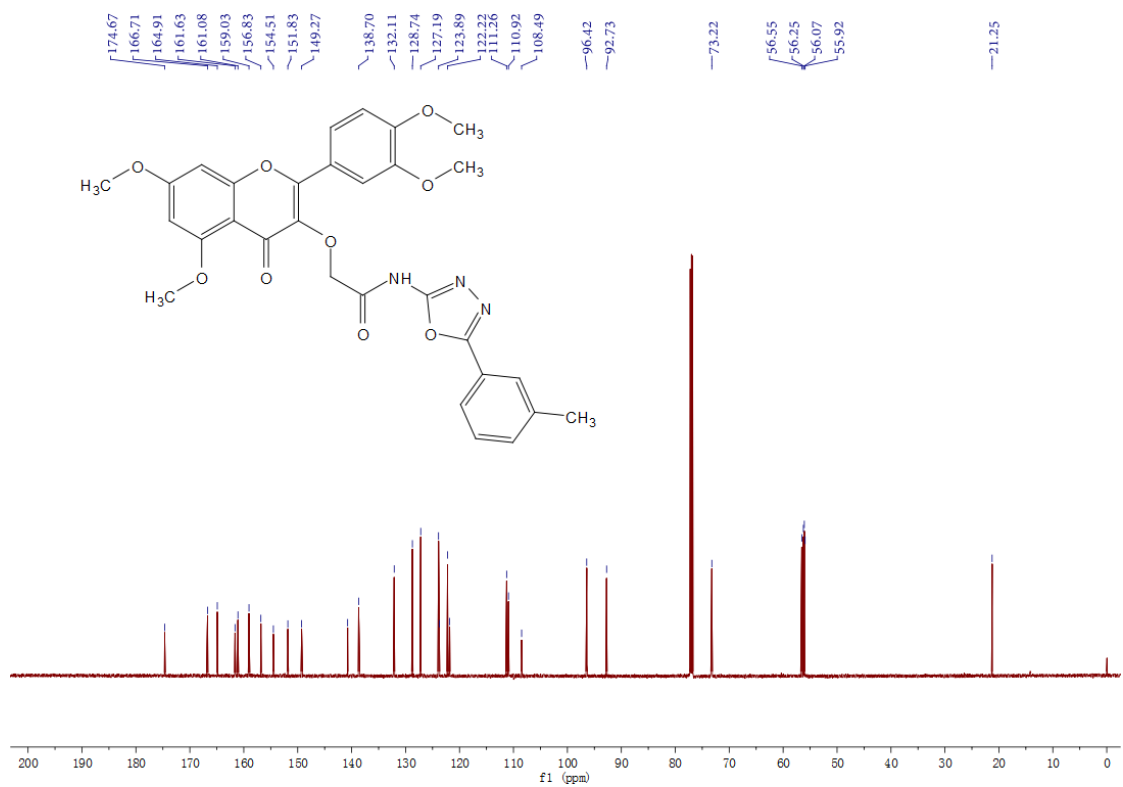
S63



The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound B11

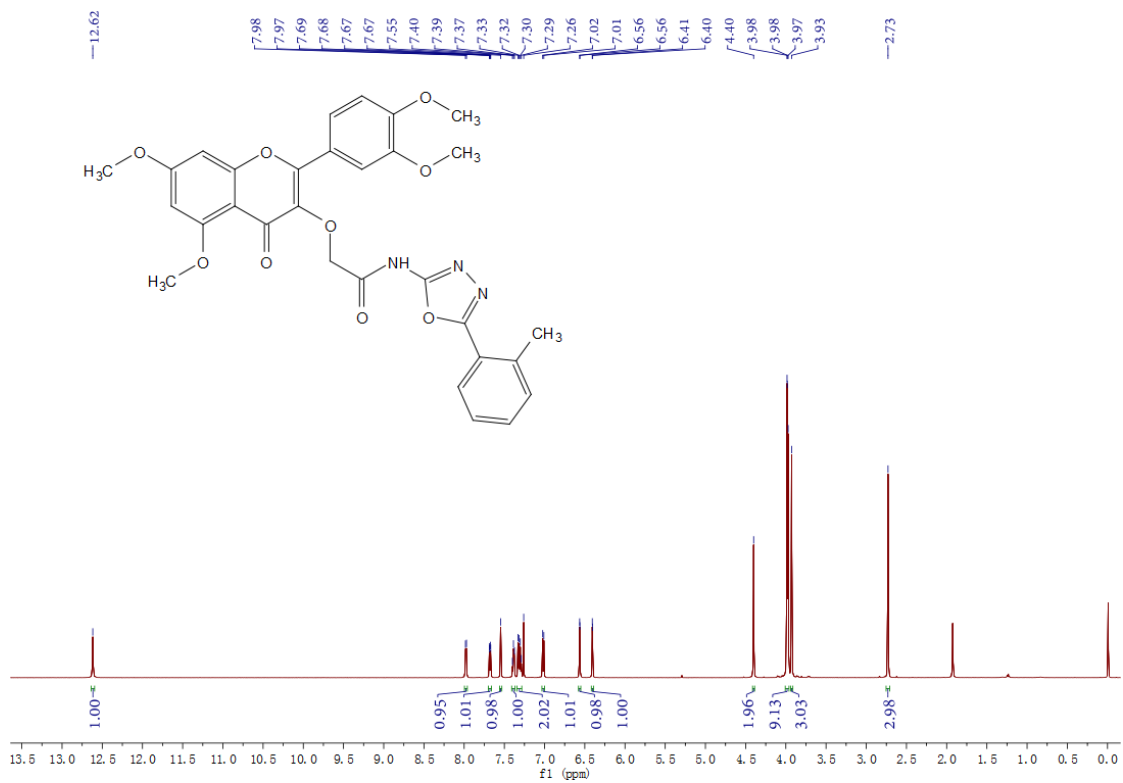
## B12



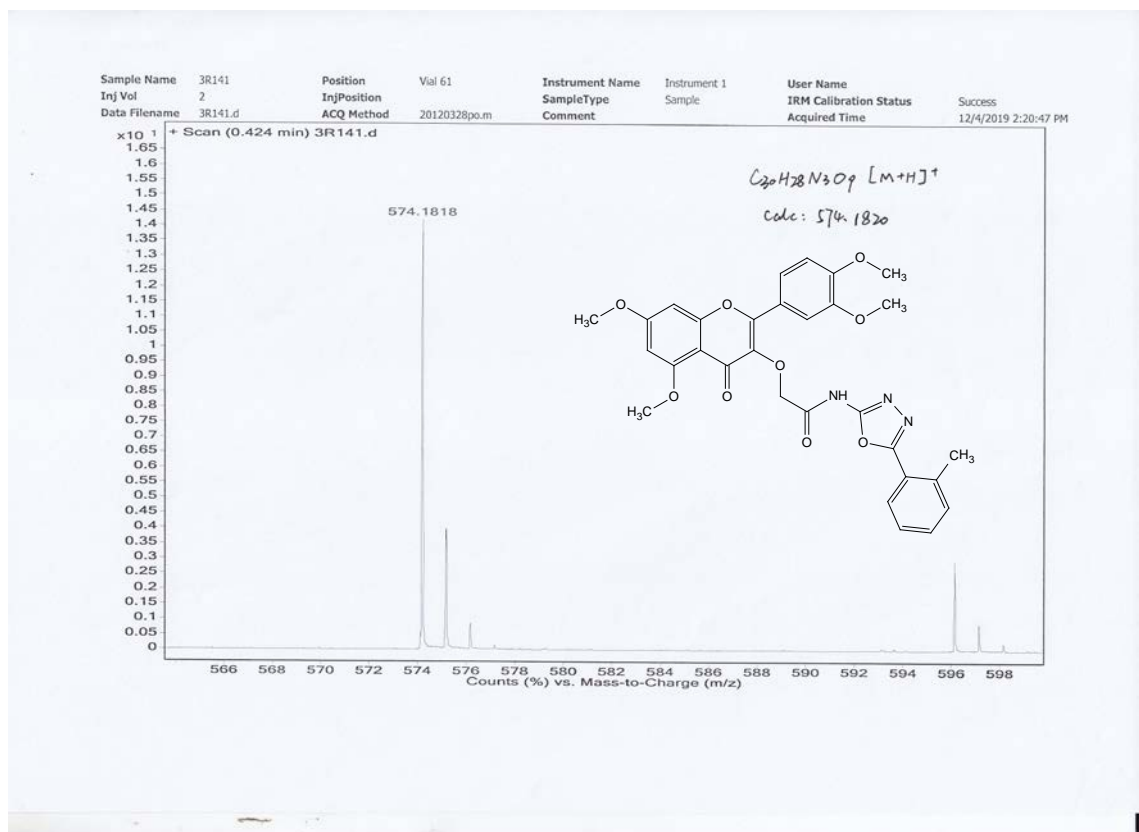
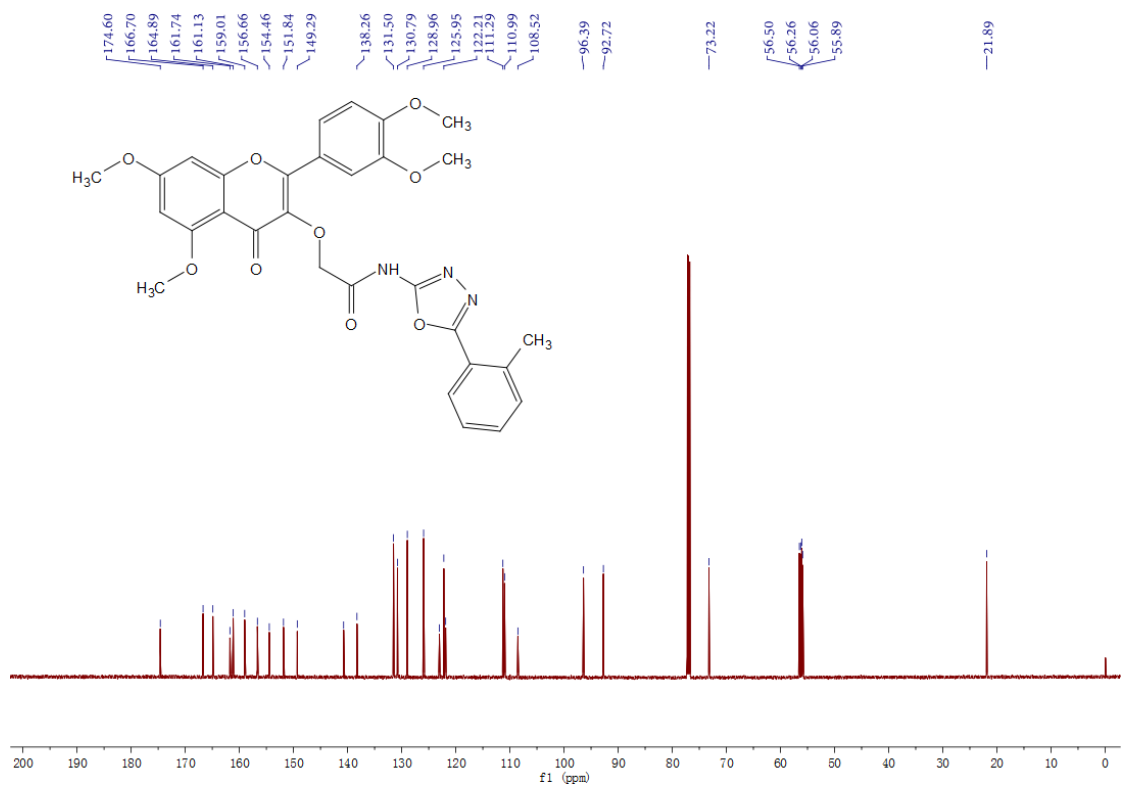


<sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound B12

B13

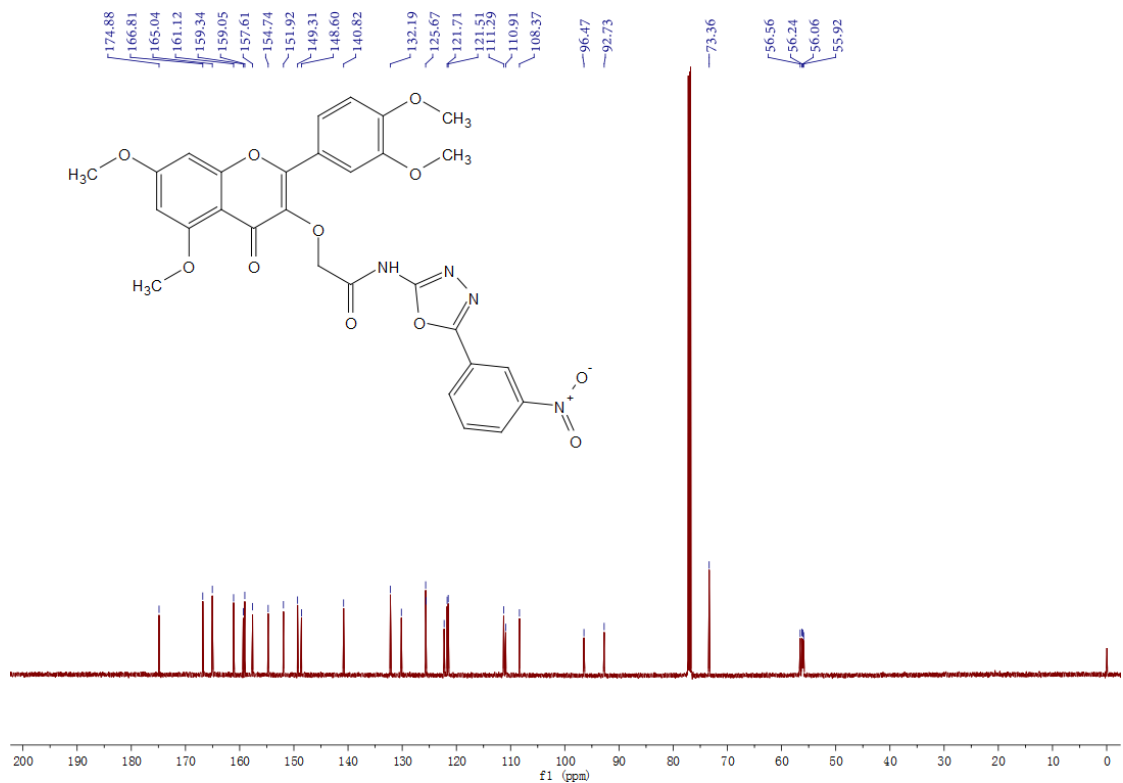
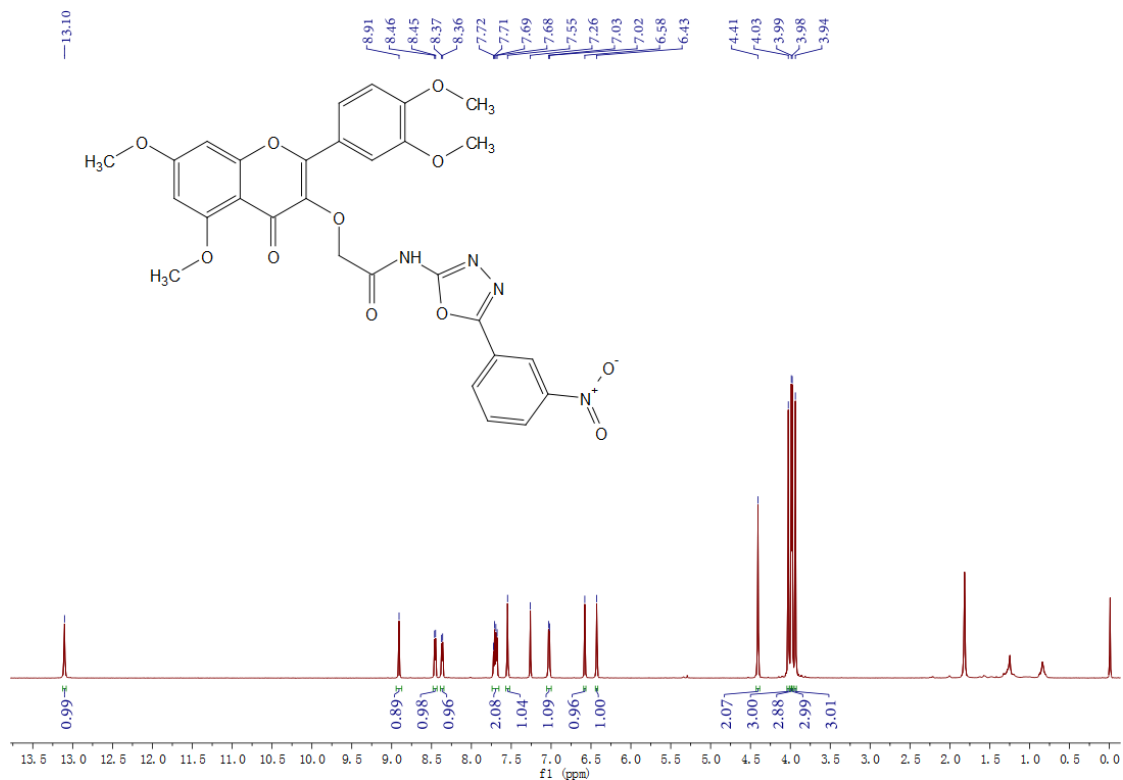


S65

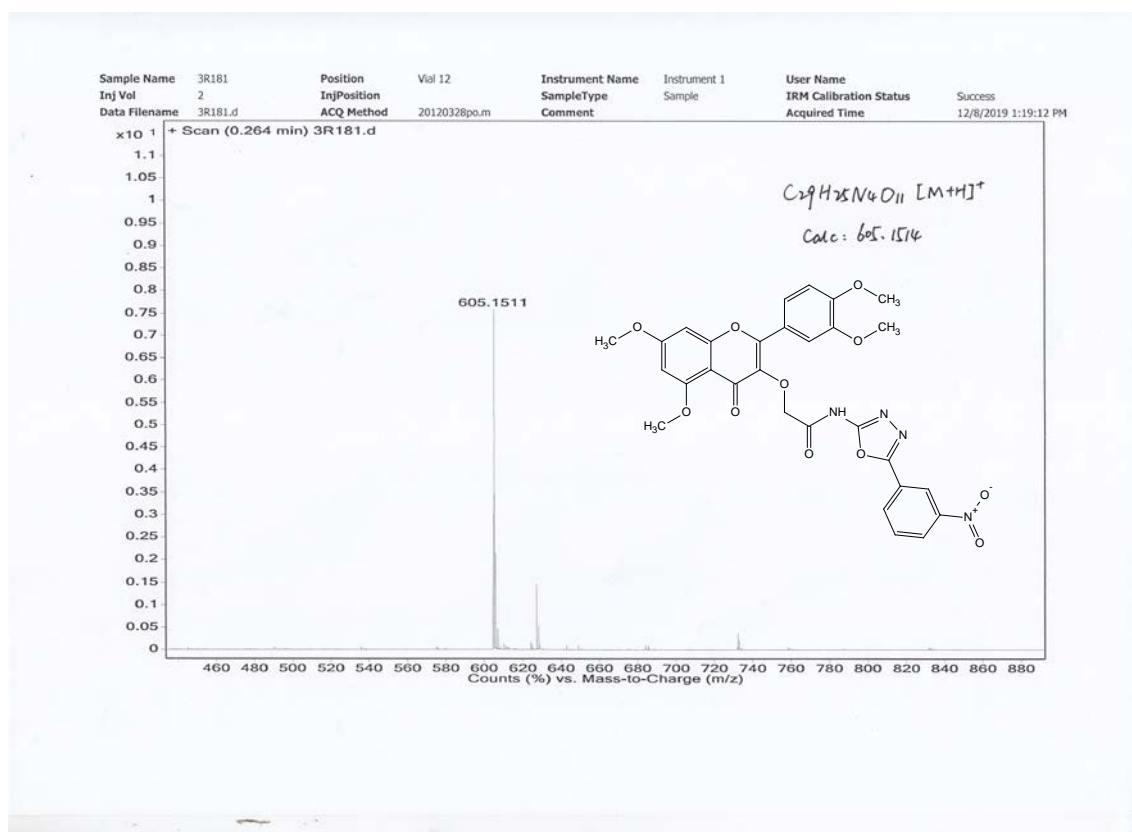


The spectrum of <sup>1</sup>H NMR, <sup>13</sup>C NMR and HRMS of compound B13

# B14

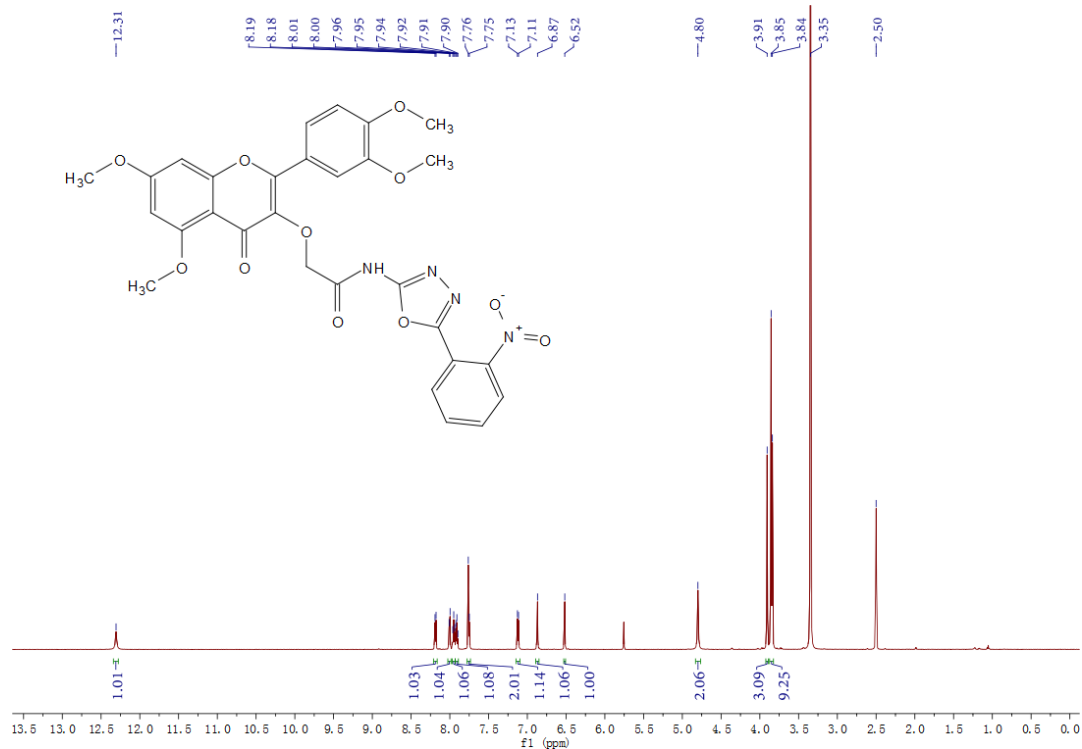


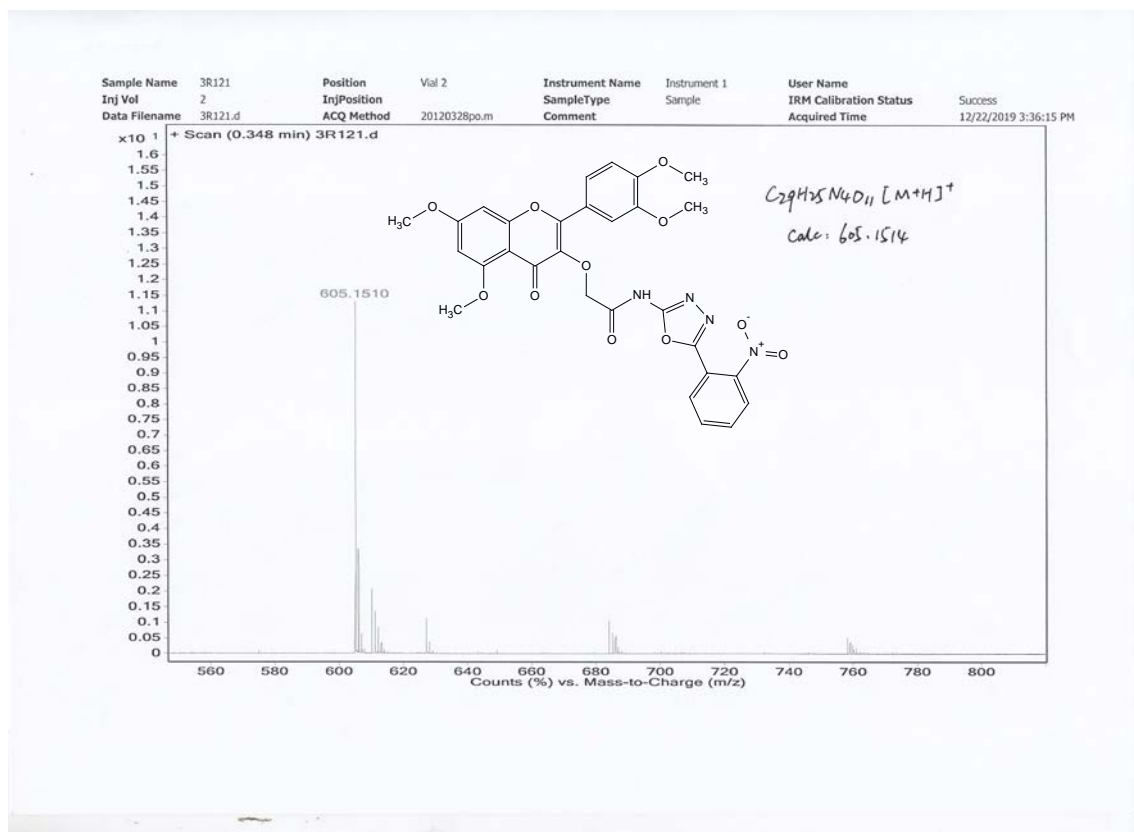
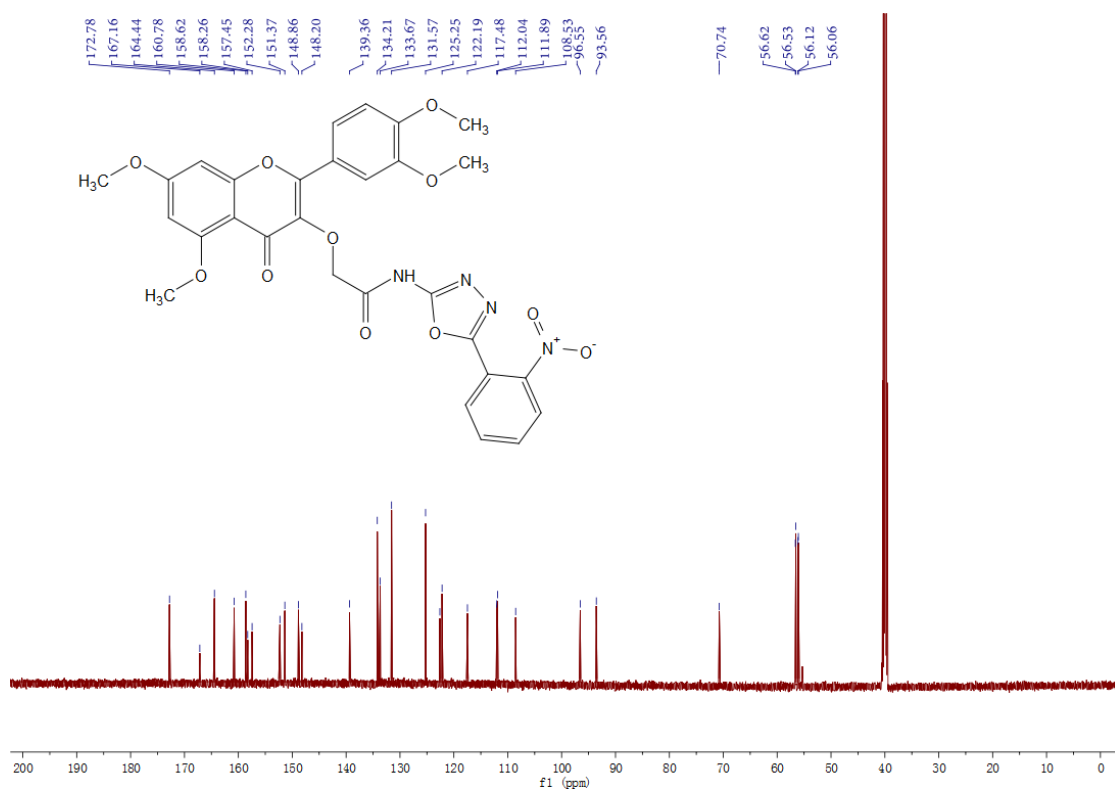




The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B14

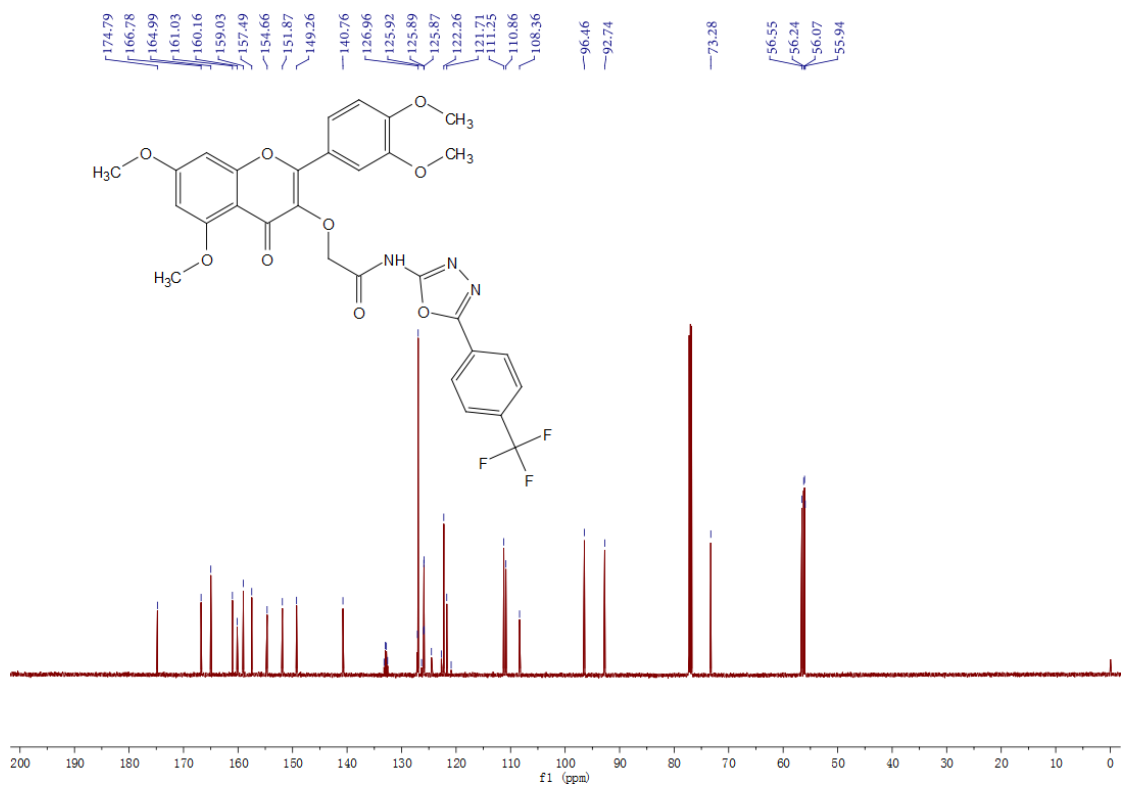
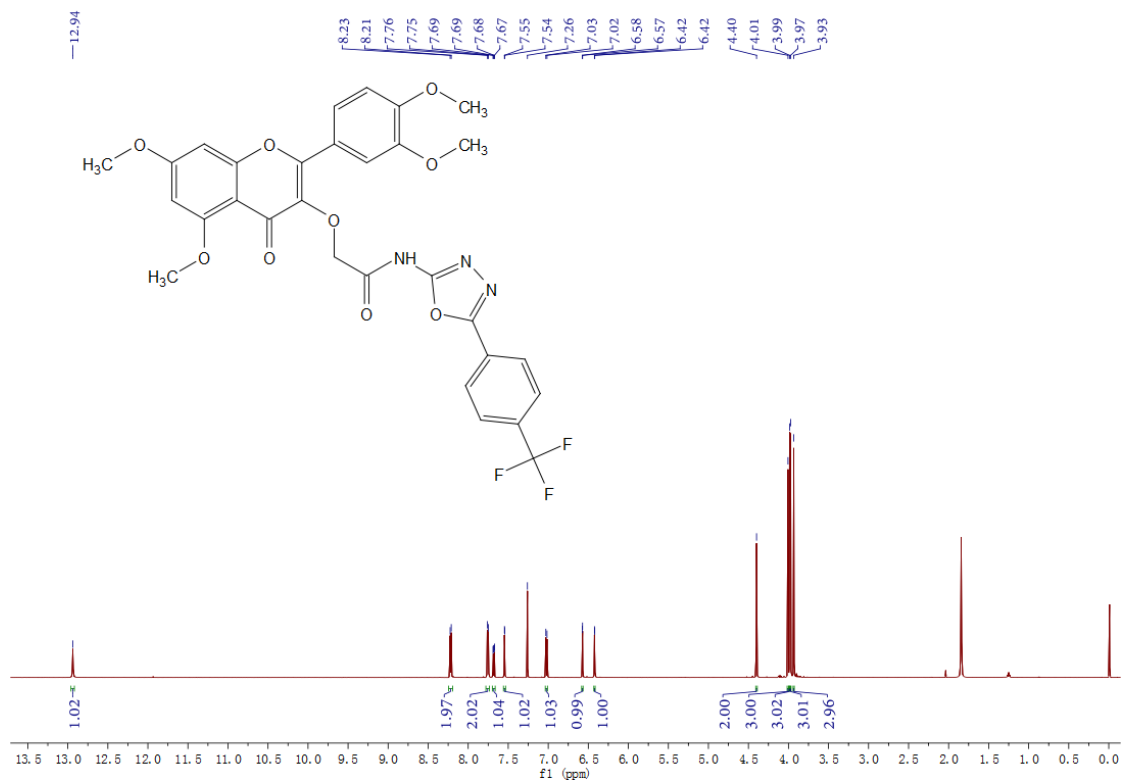
## B15





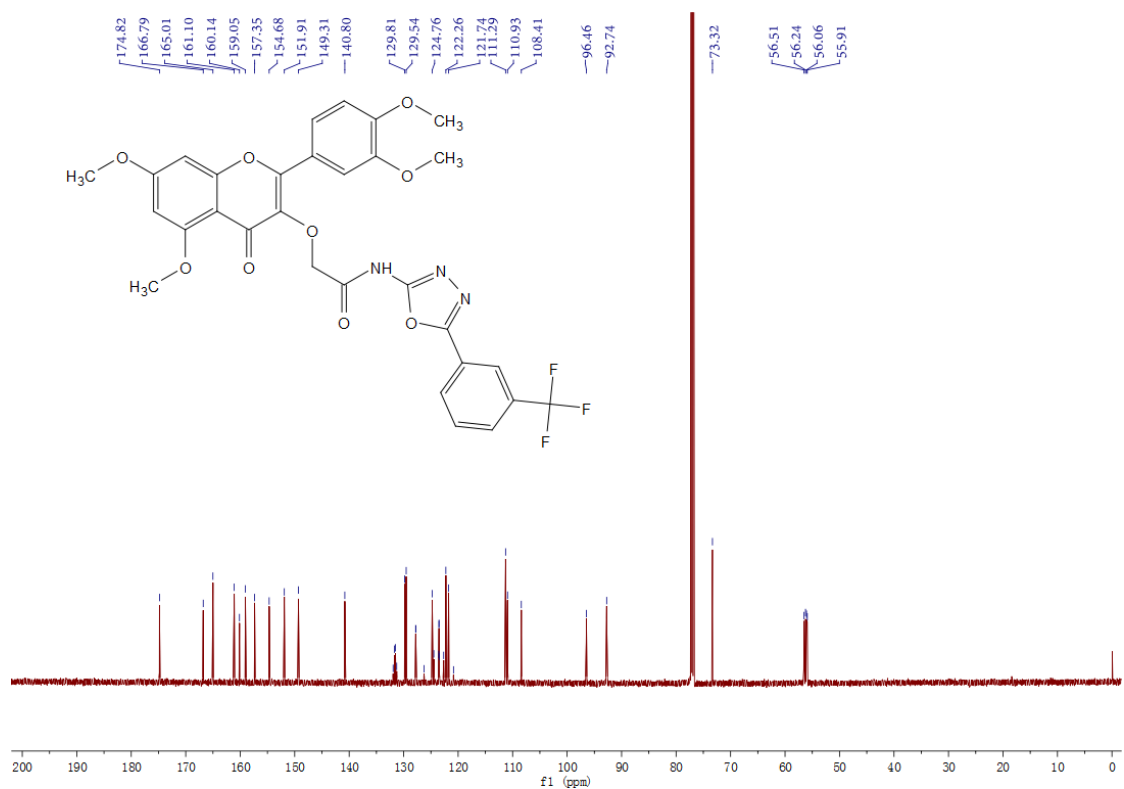
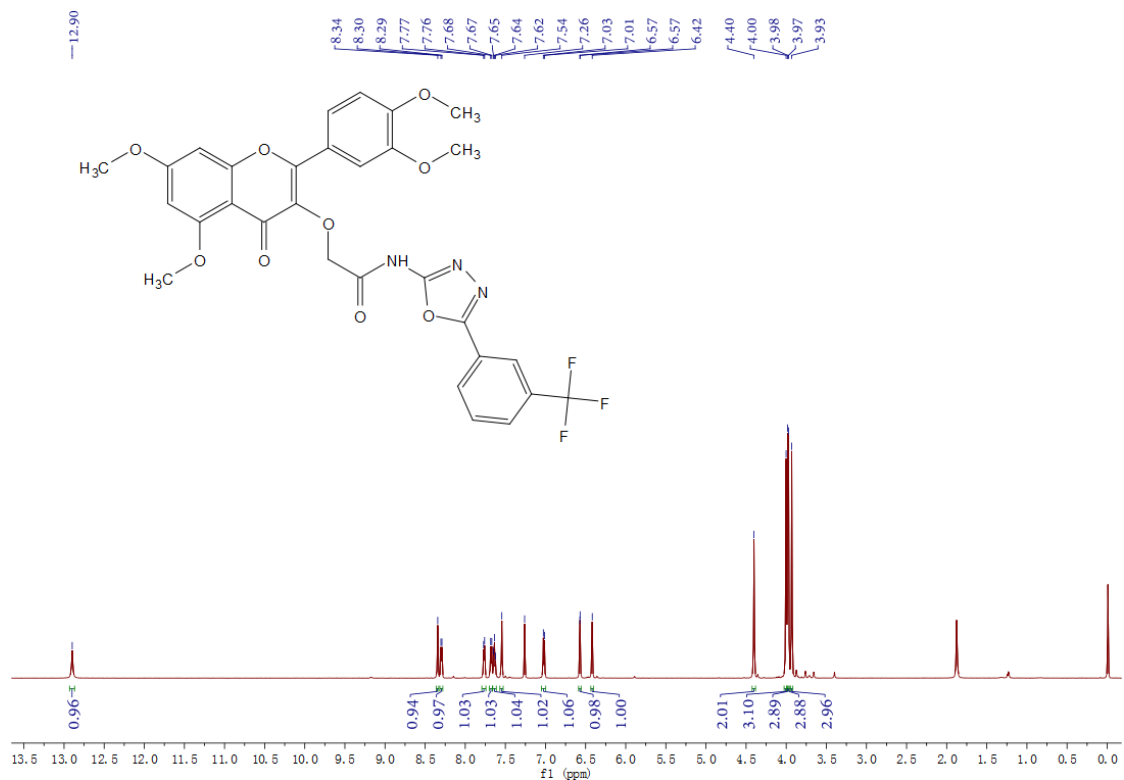
The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B15

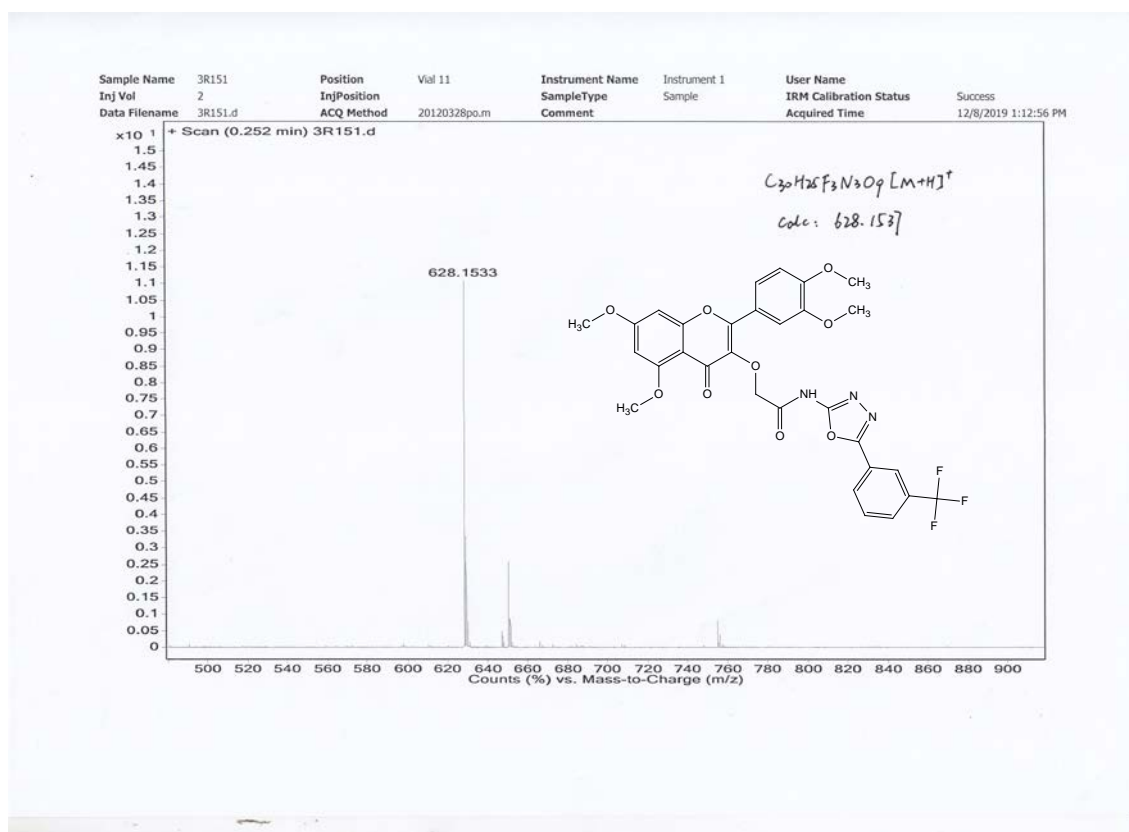
# B16



The spectrum of  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR compound B16

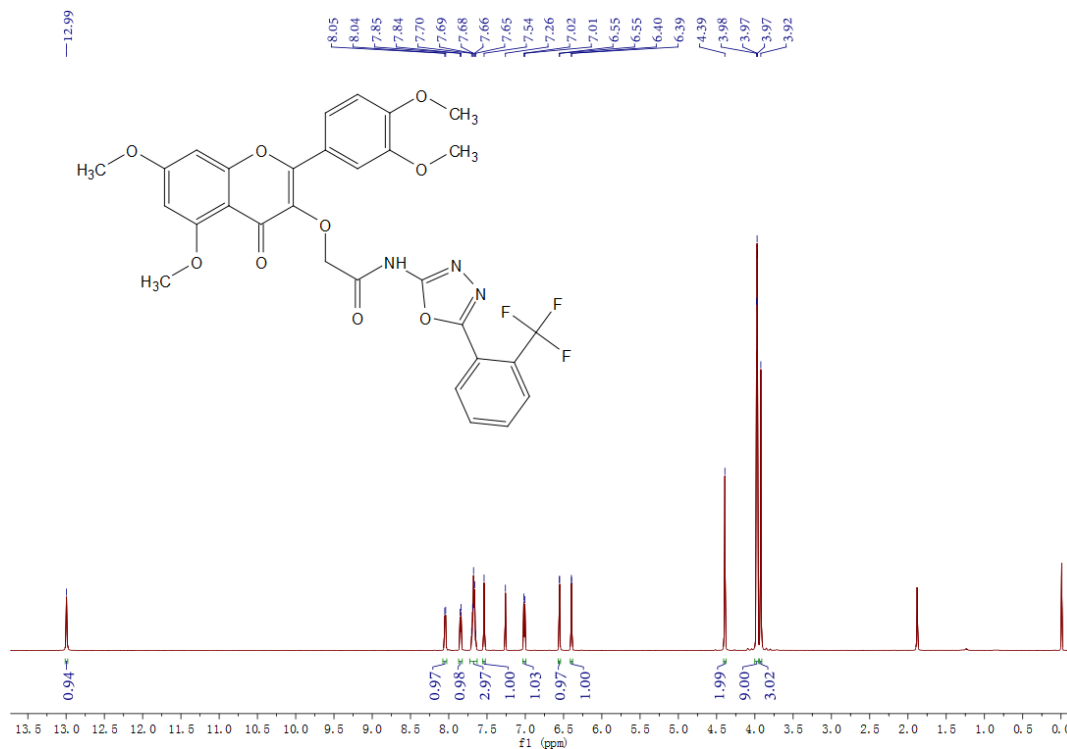
# B17

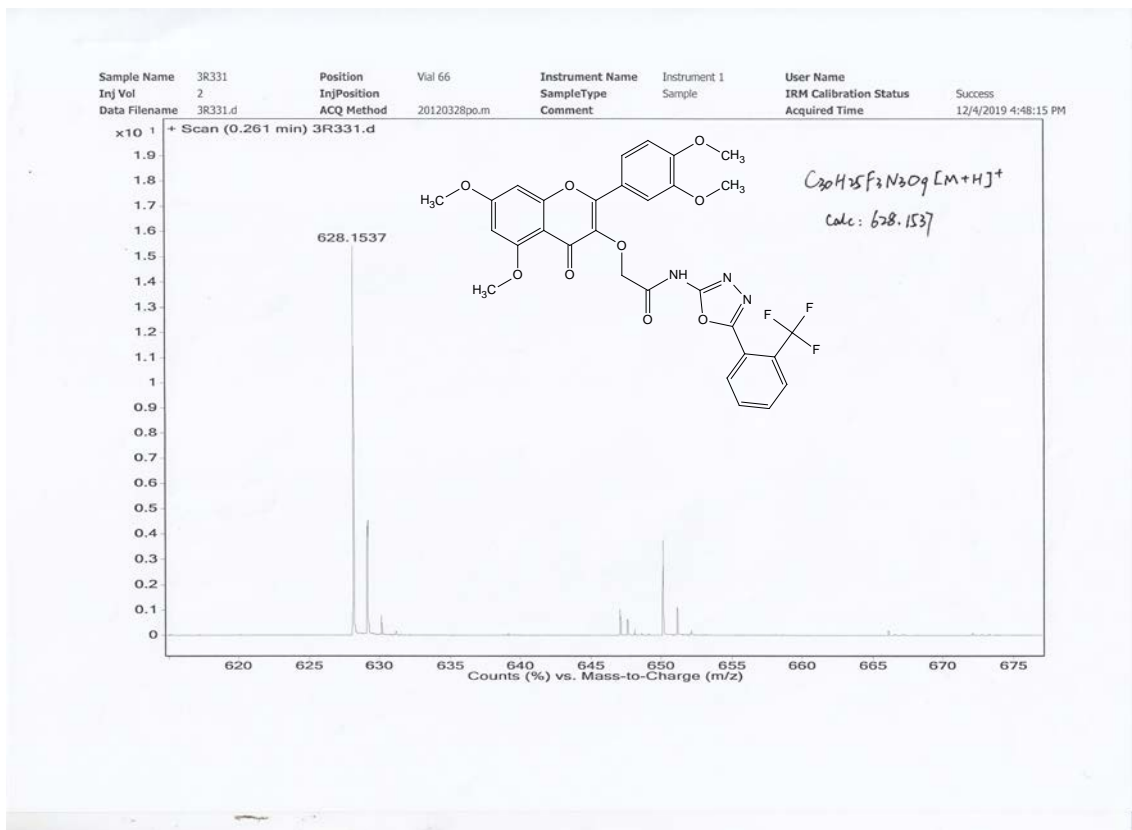
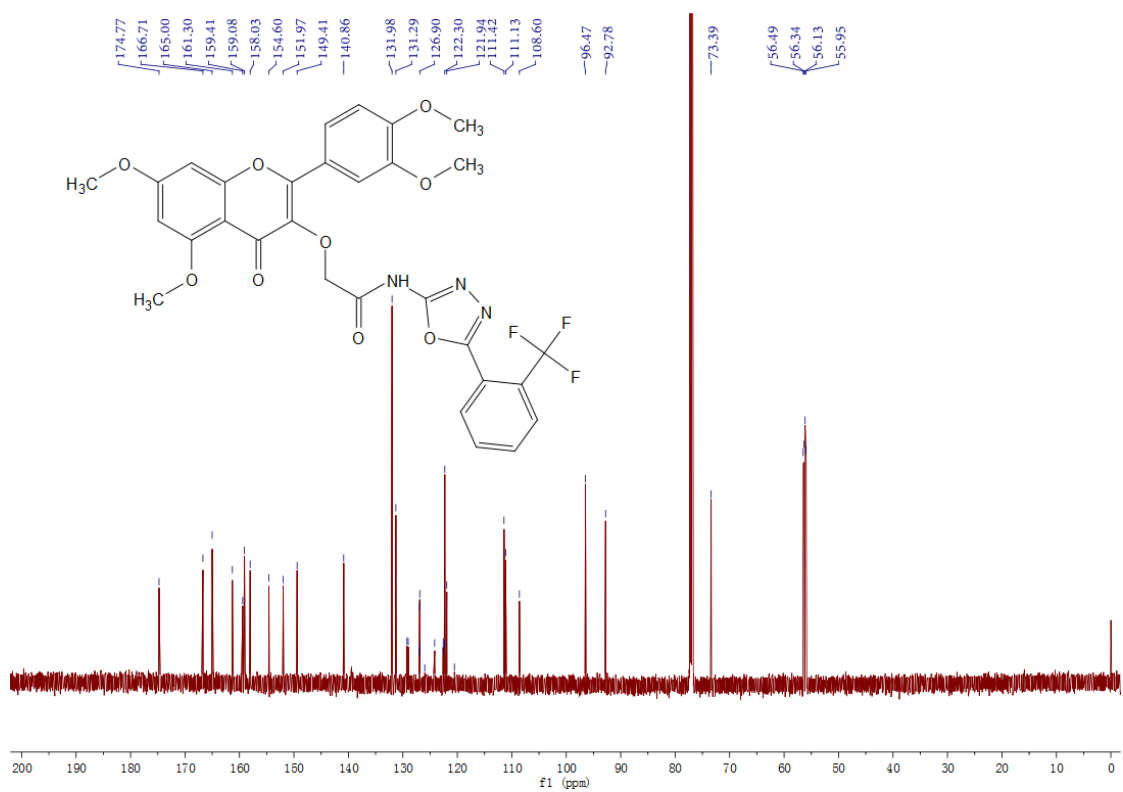




The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B17

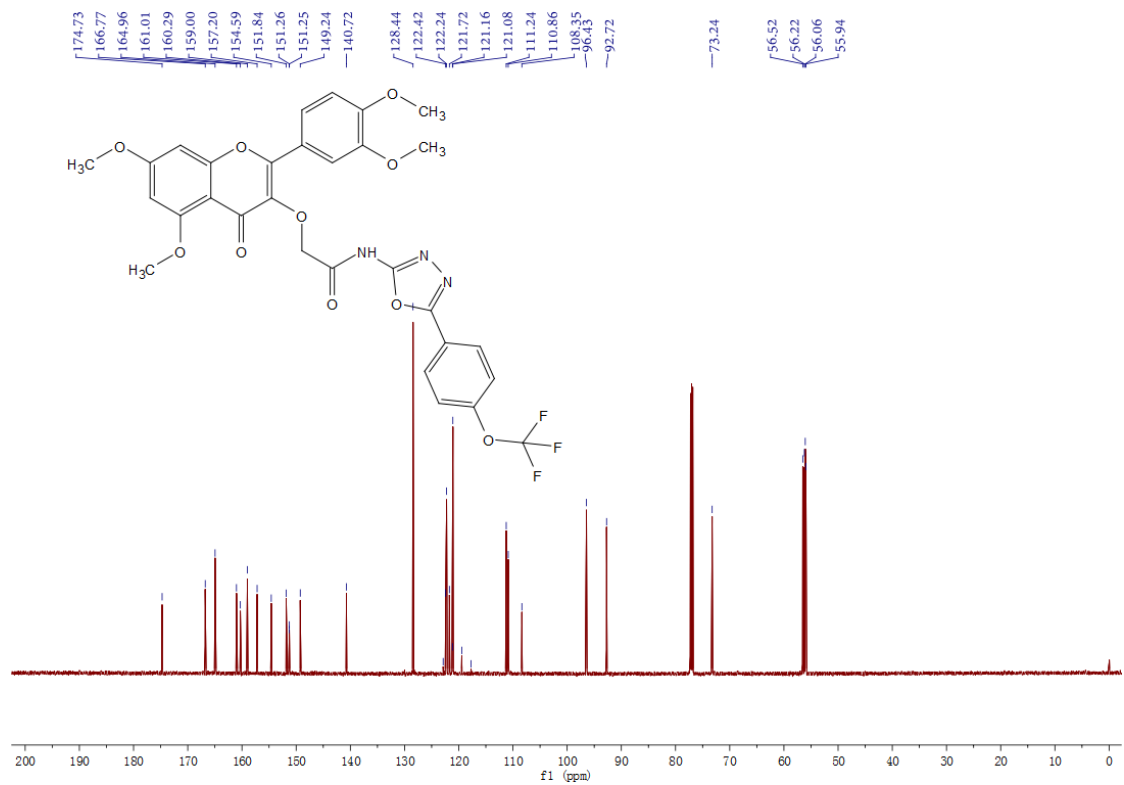
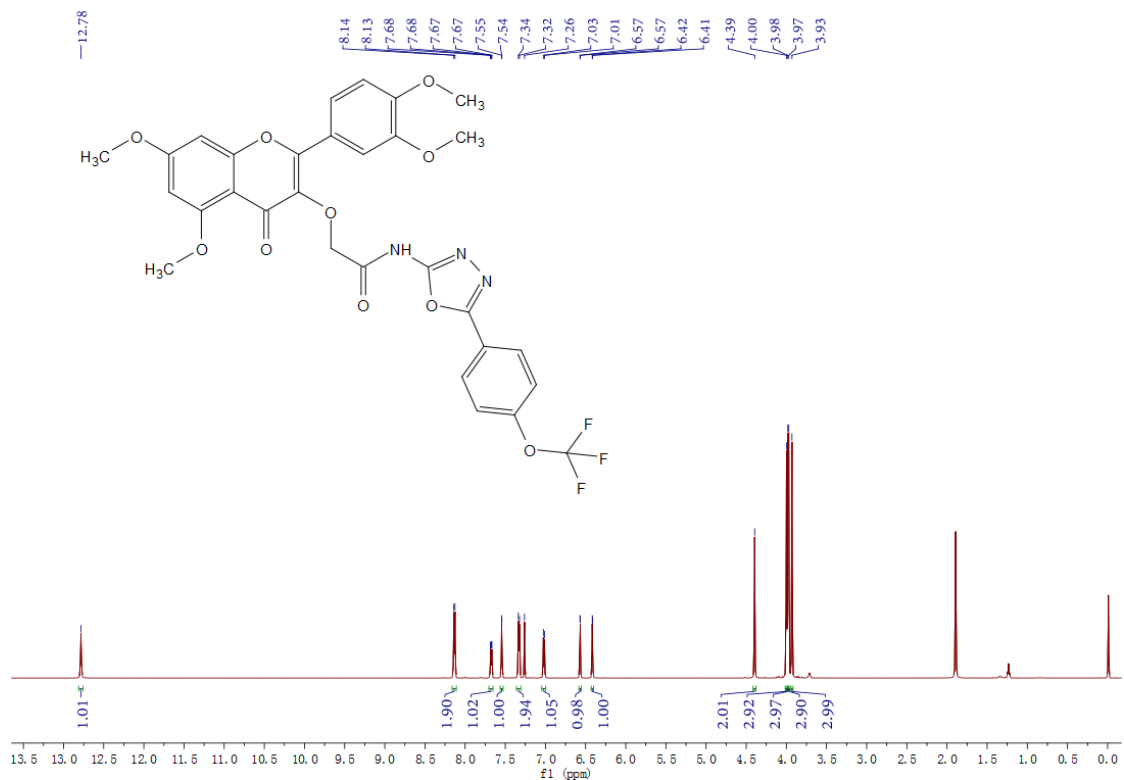
## B18

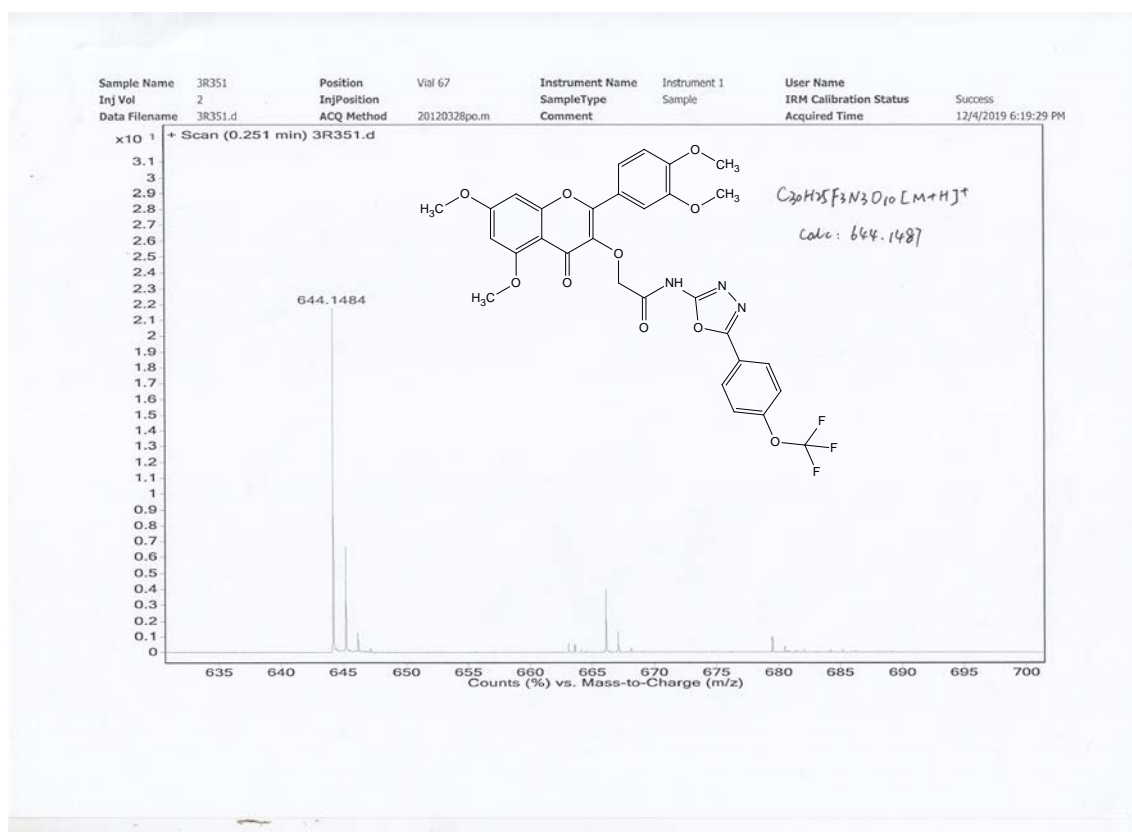




The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound B18

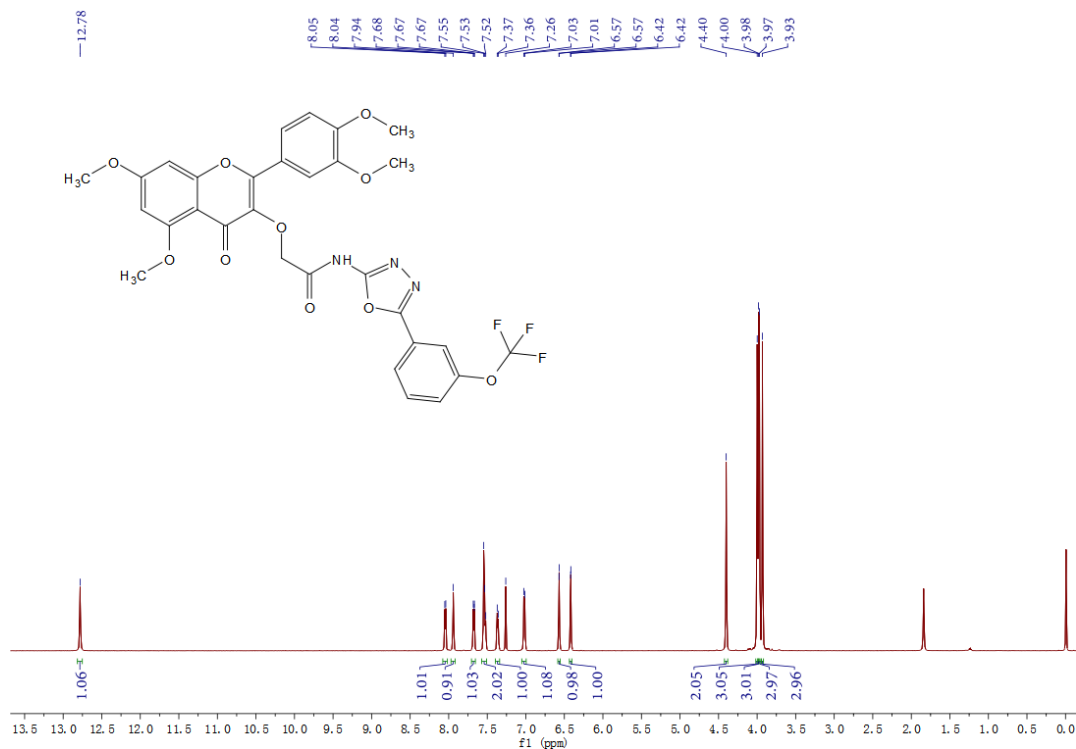
**B19**





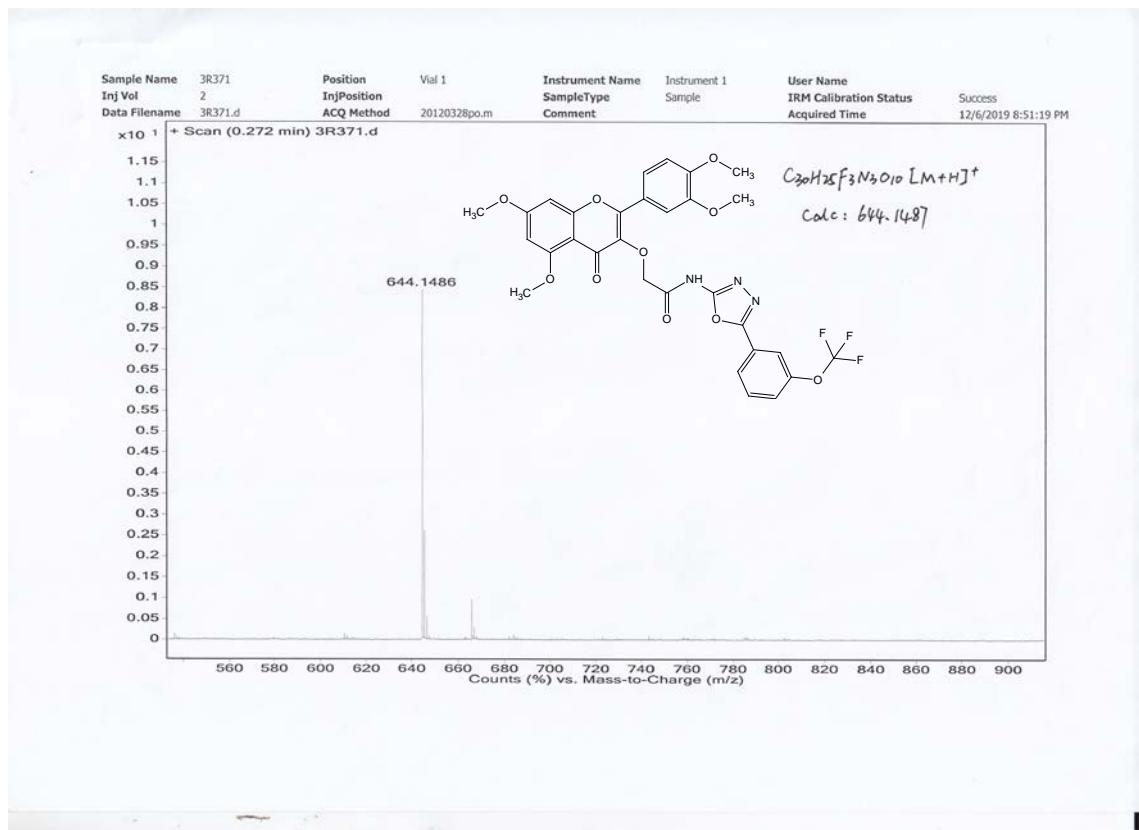
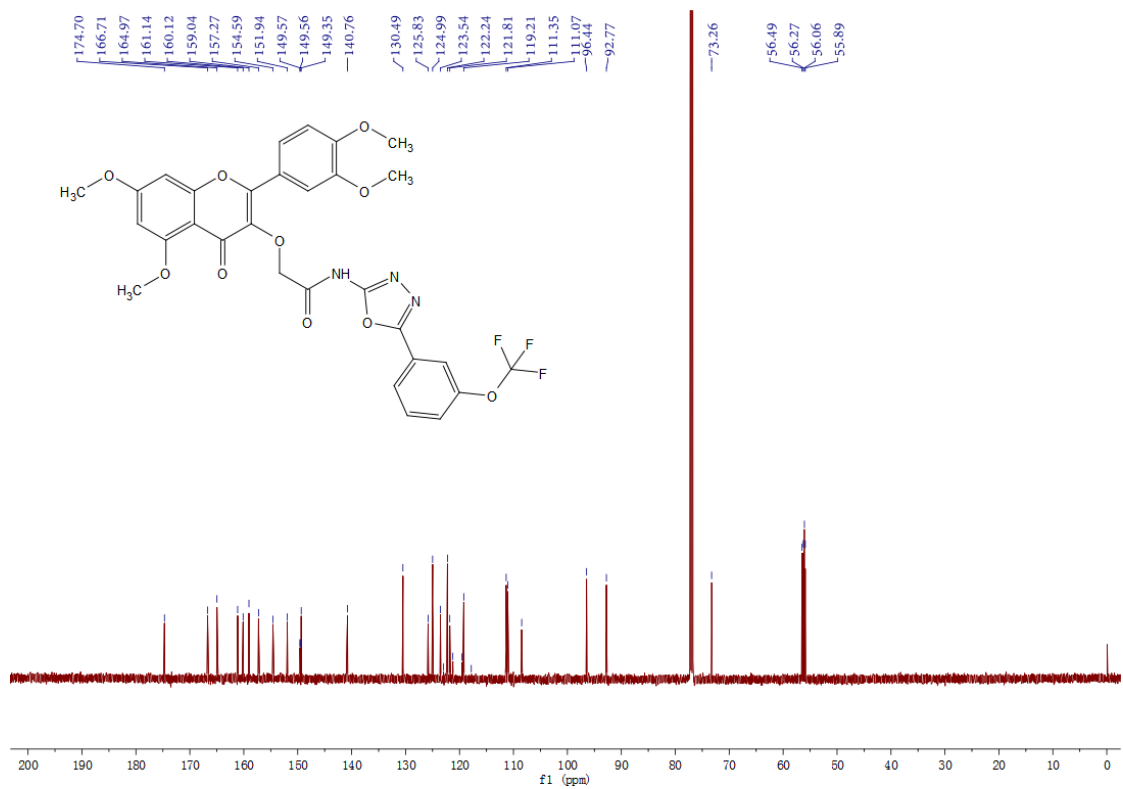
The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B19

B20



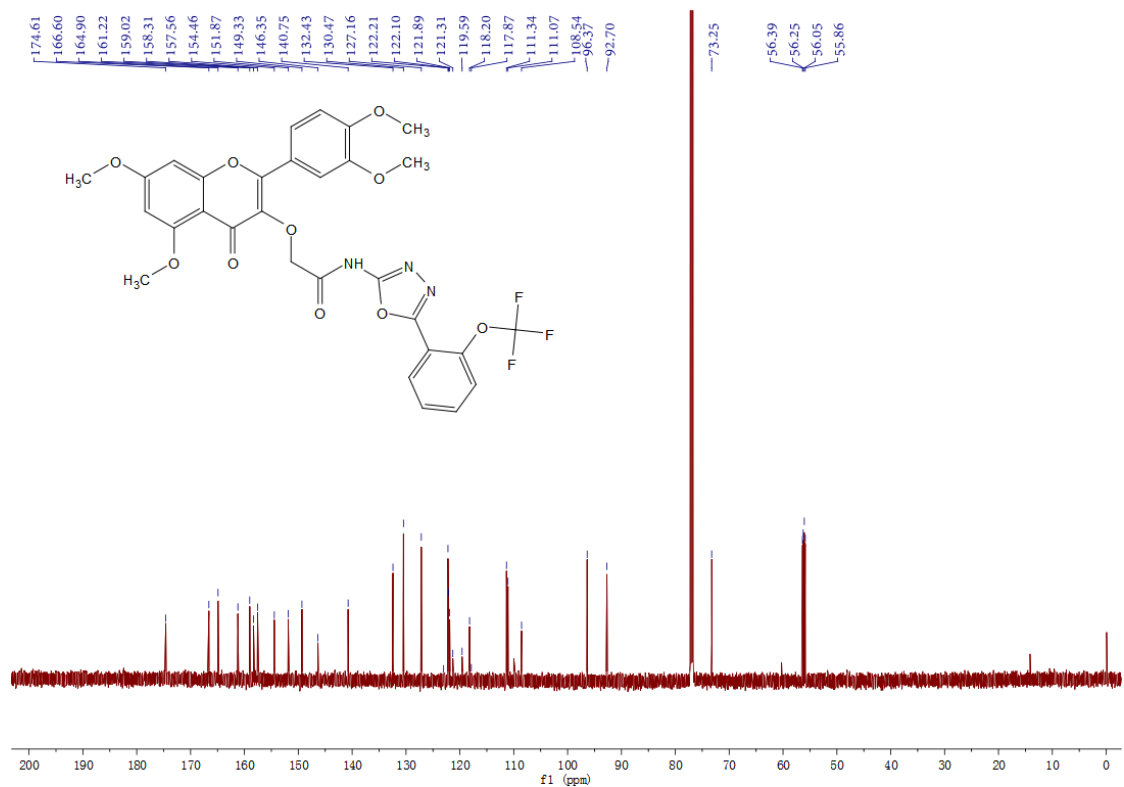
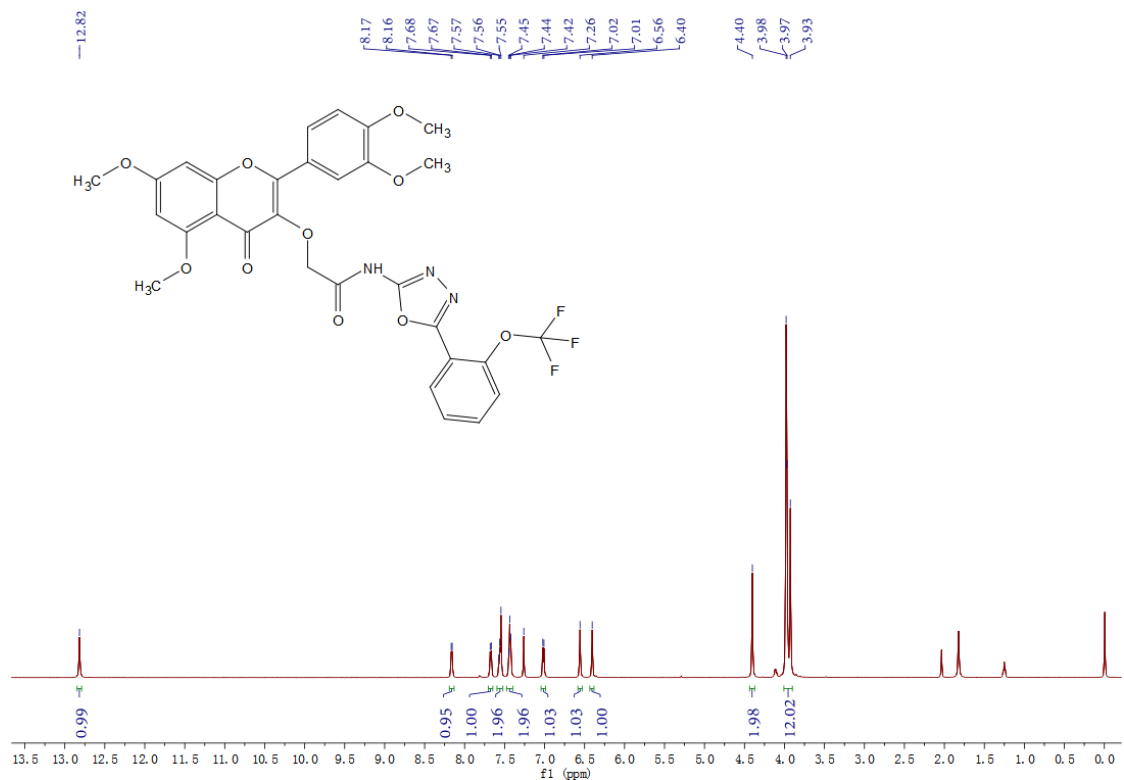
S75

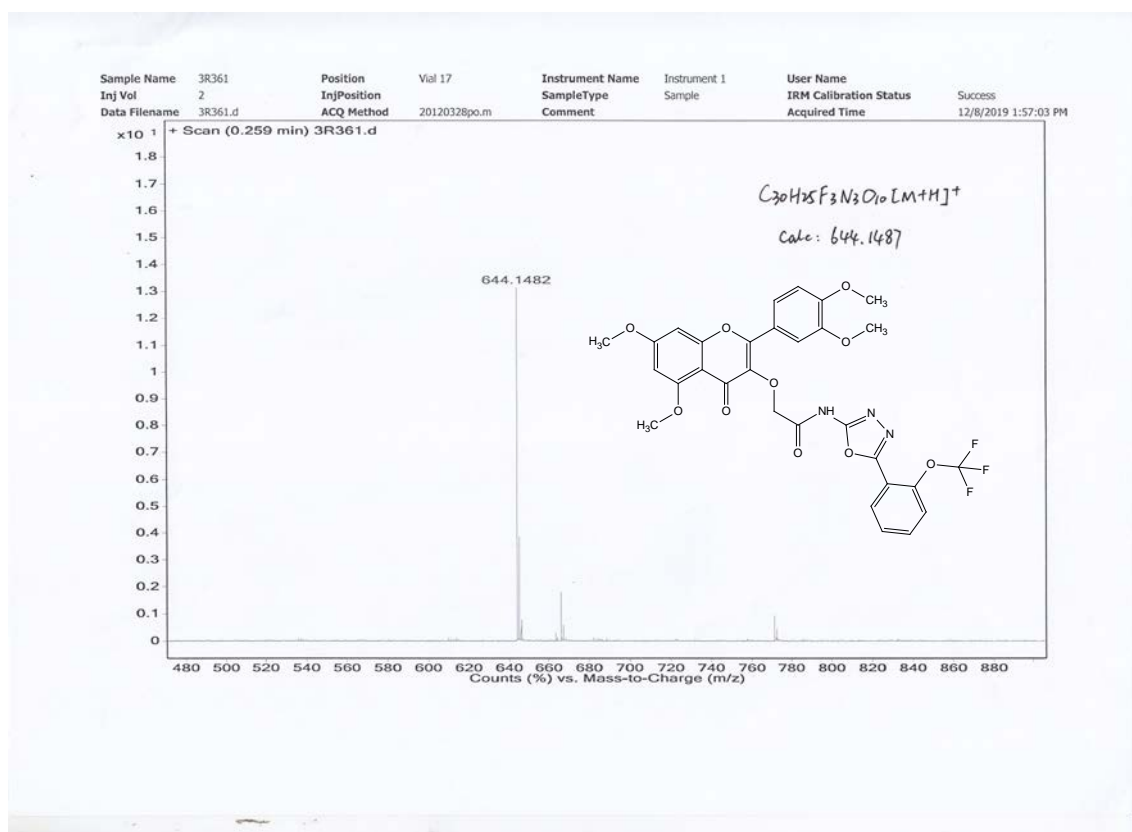




The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B20

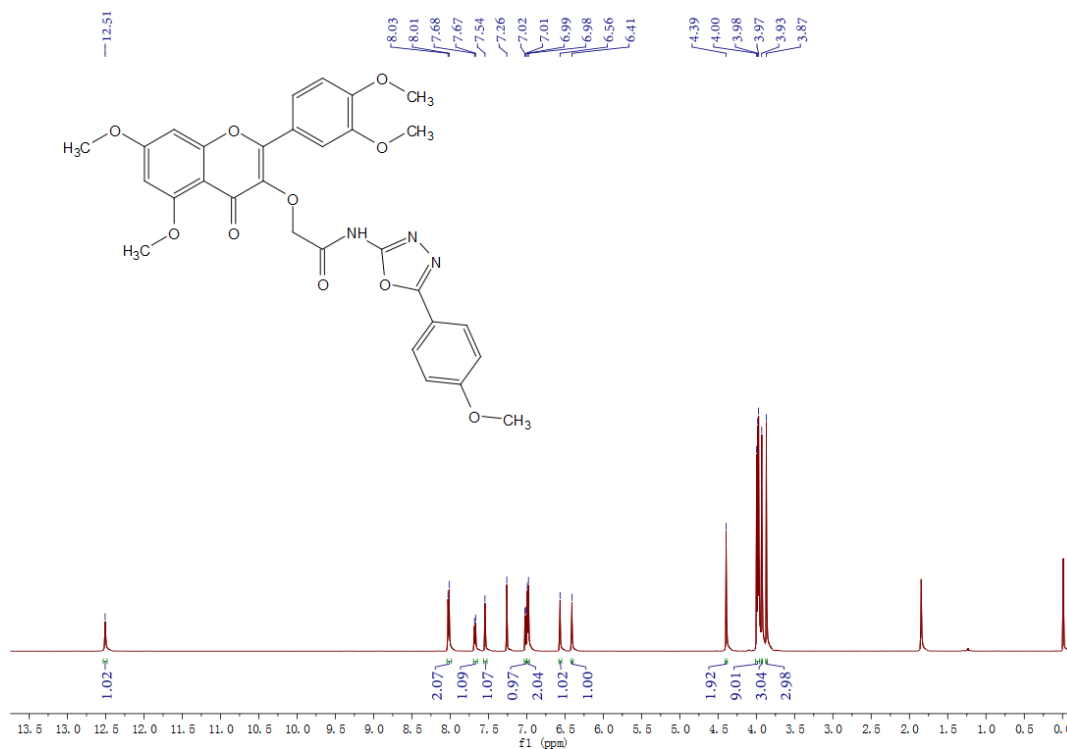
# B21

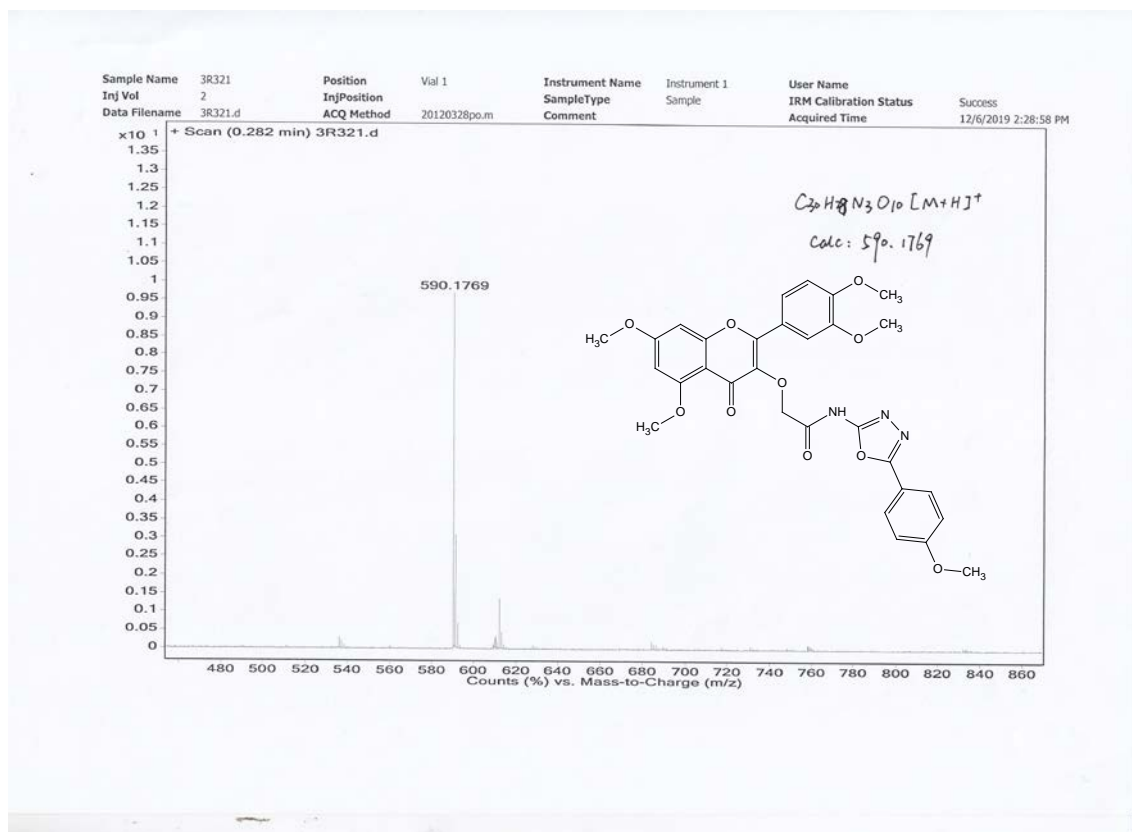
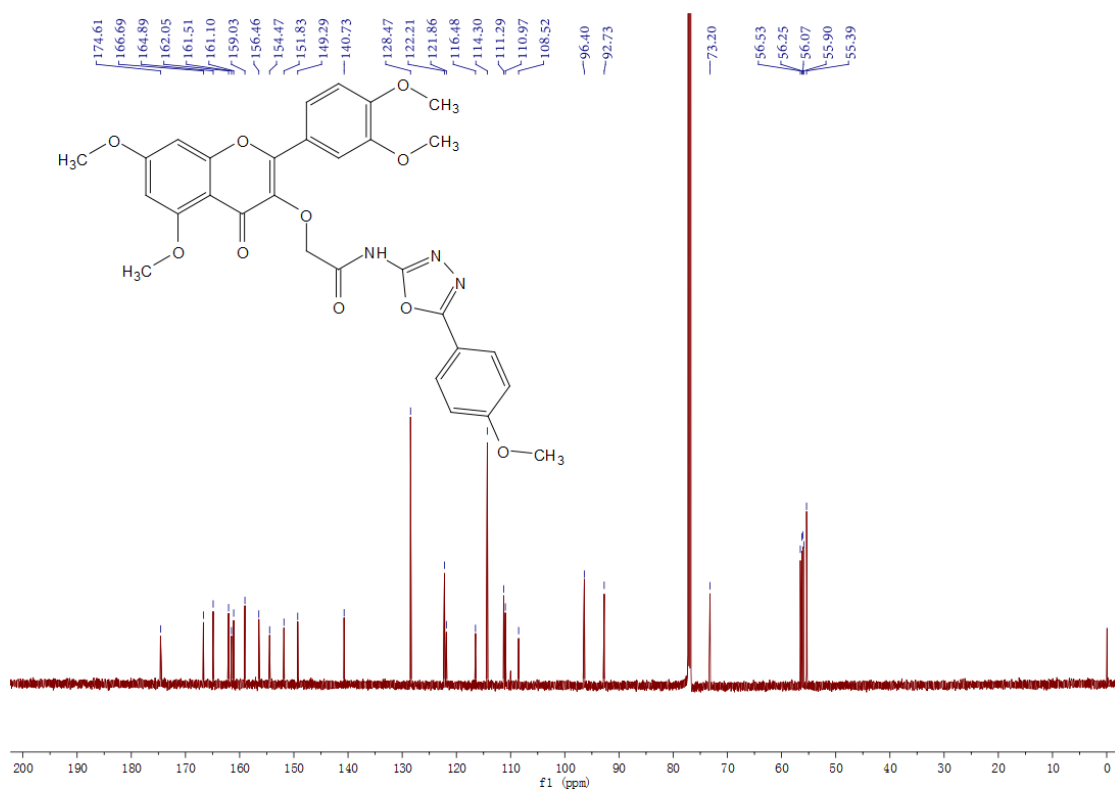




The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B21

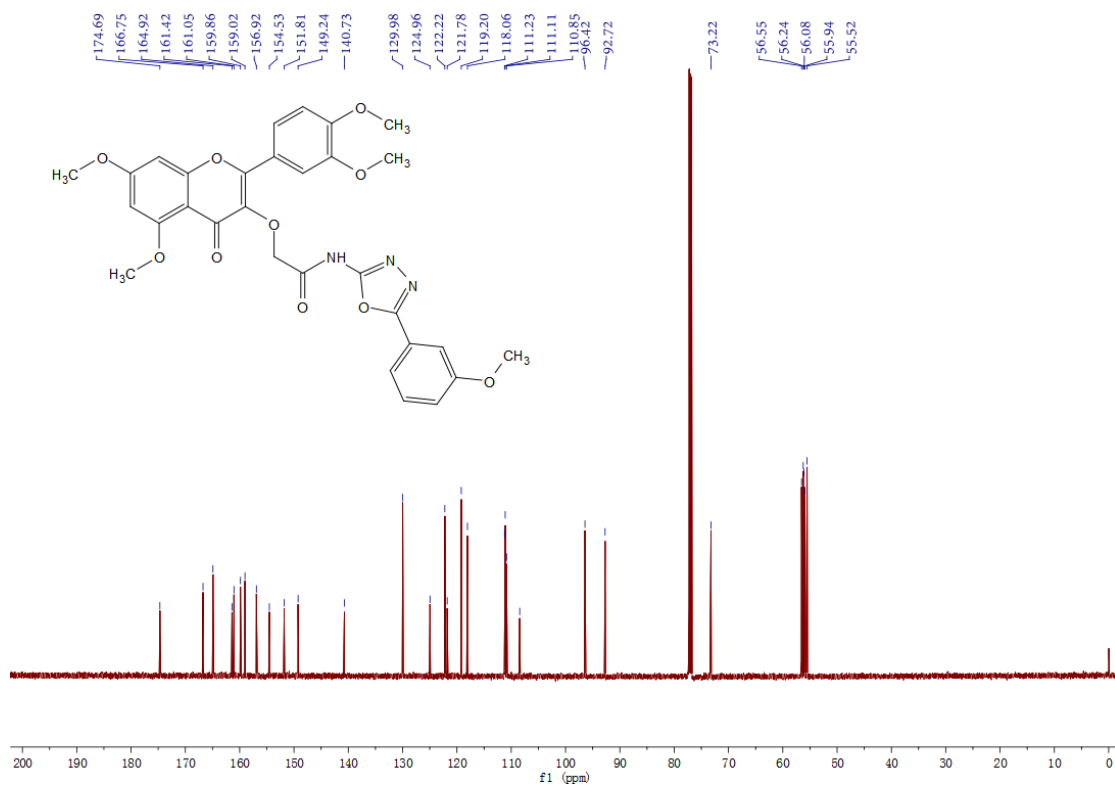
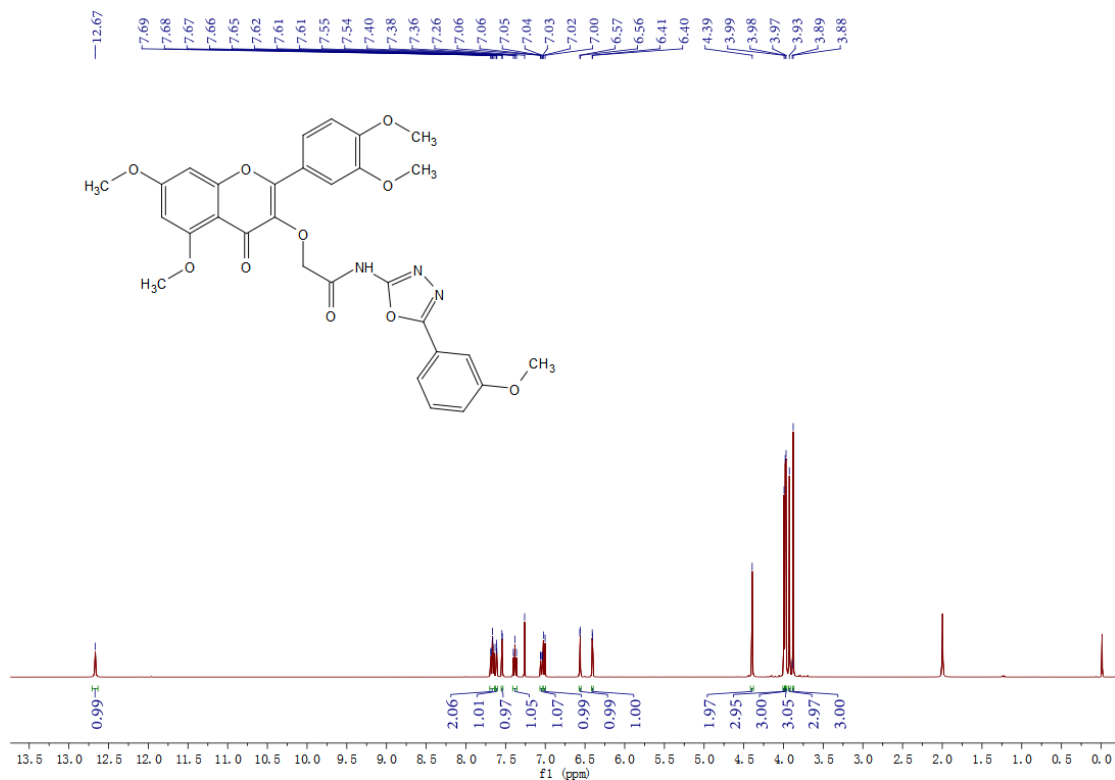
## B22

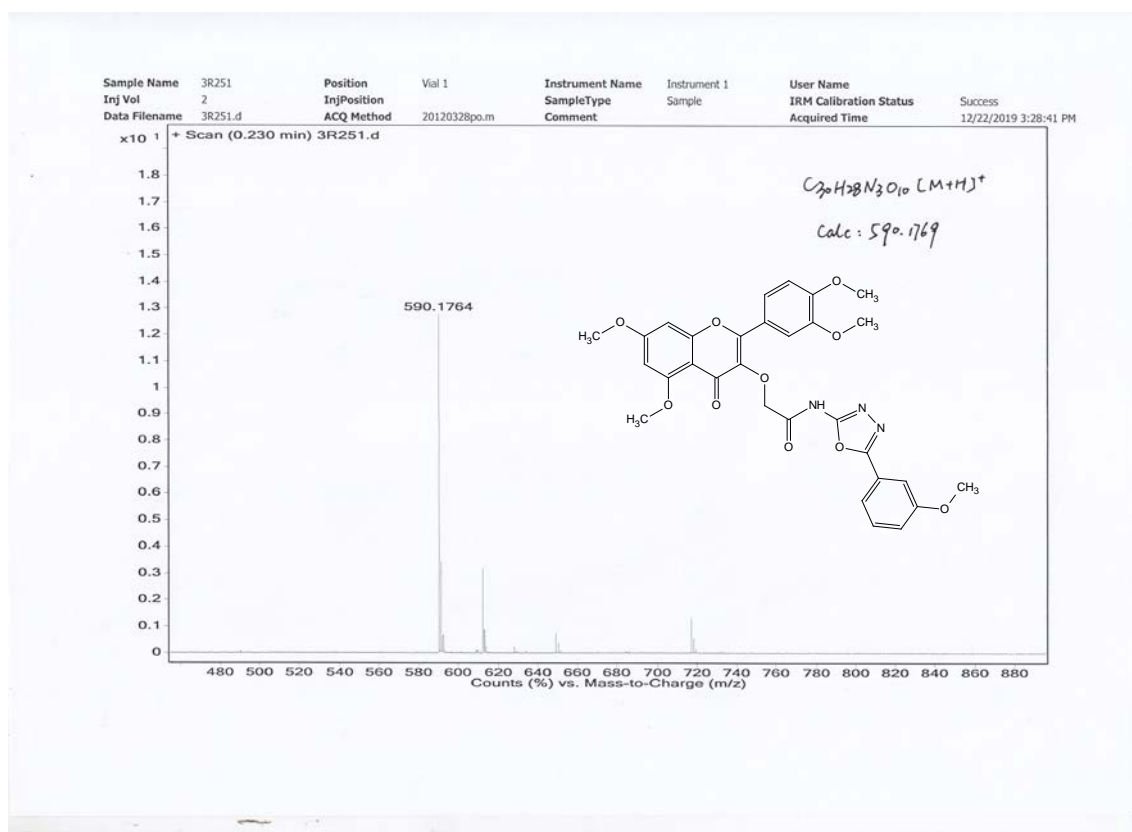




The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound B22

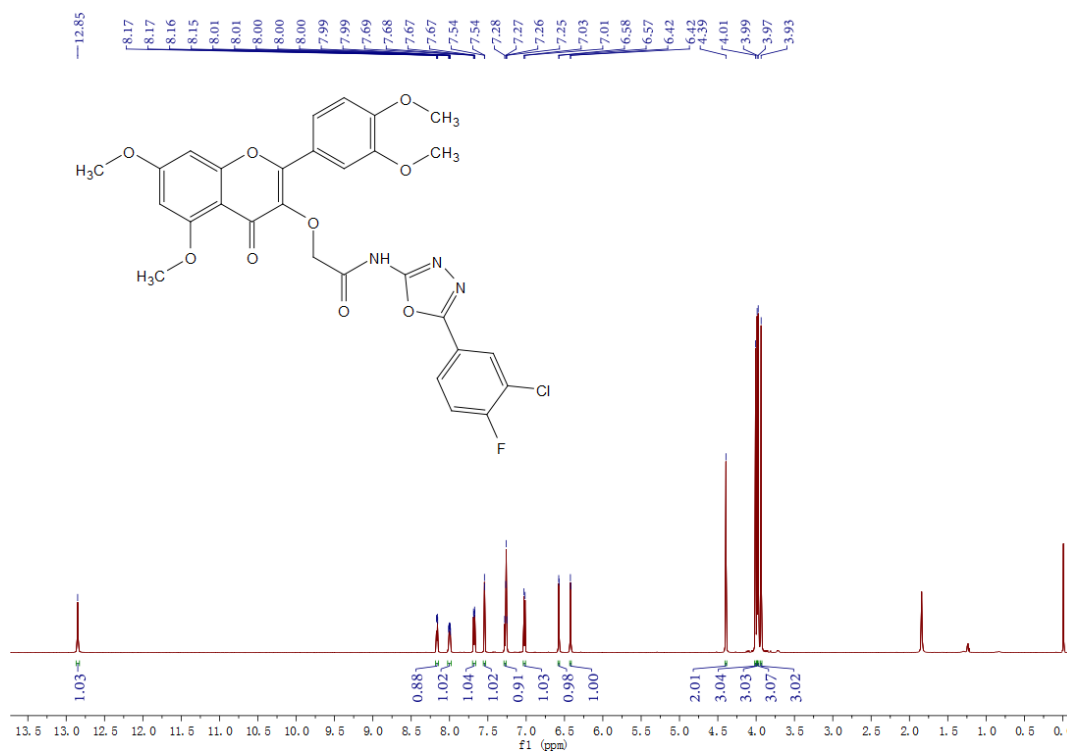
**B23**



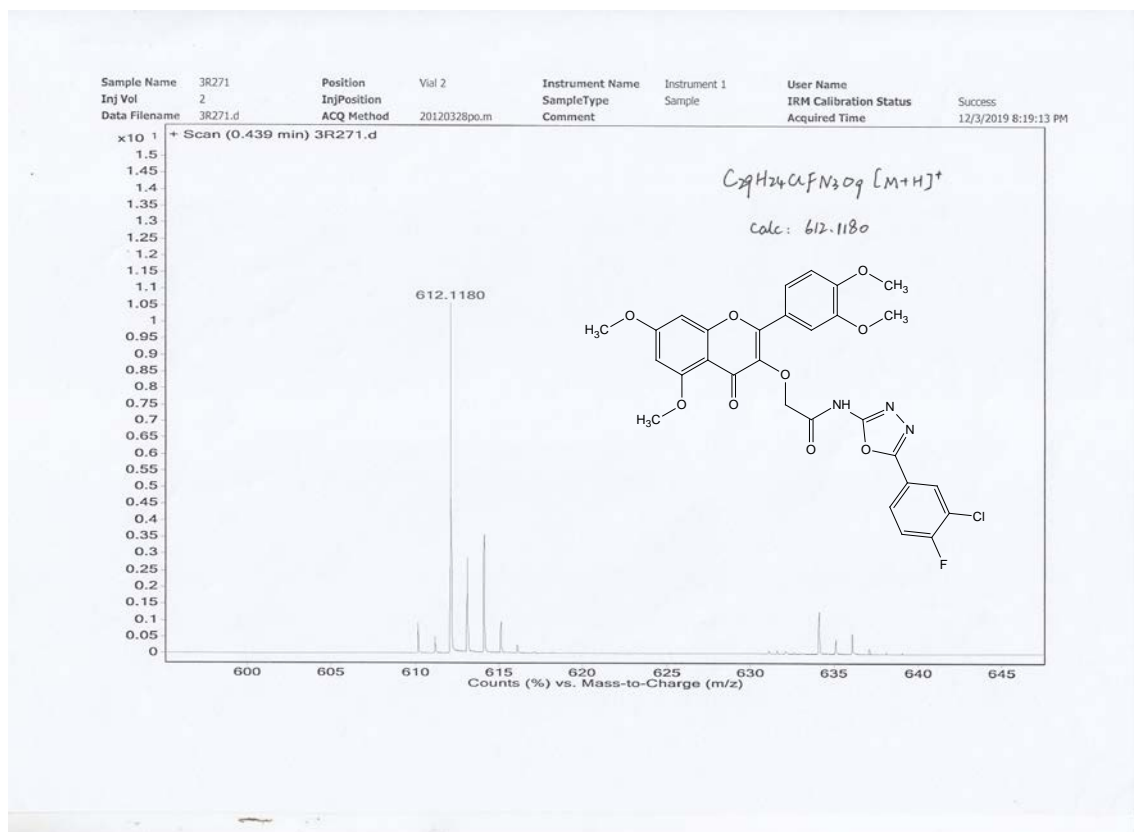
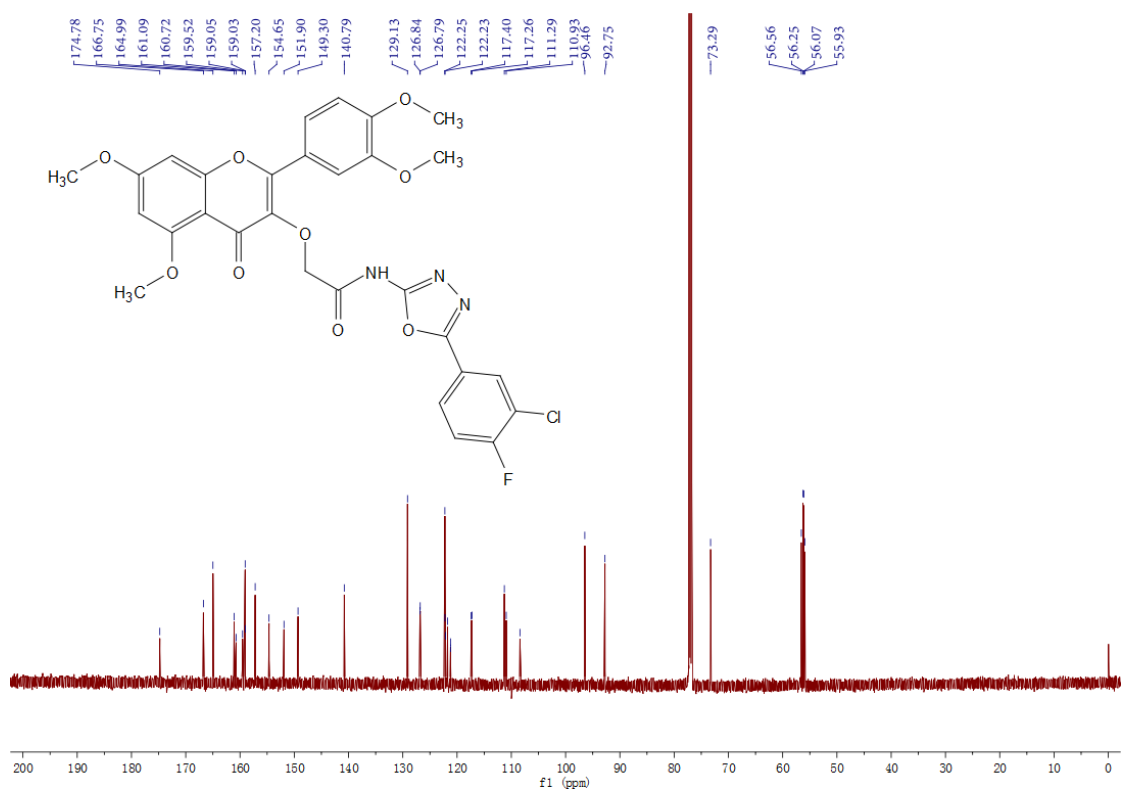


The spectrum of <sup>1</sup>H NMR, <sup>13</sup>C NMR and HRMS of compound B23

B24

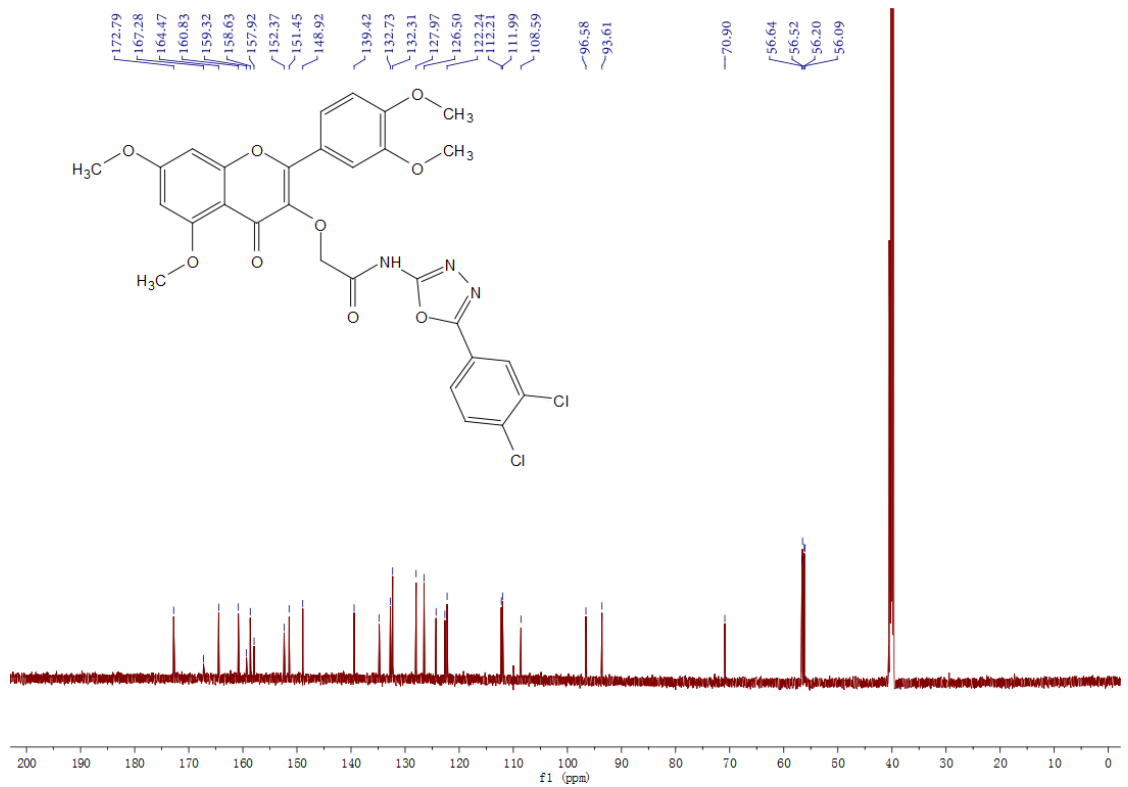
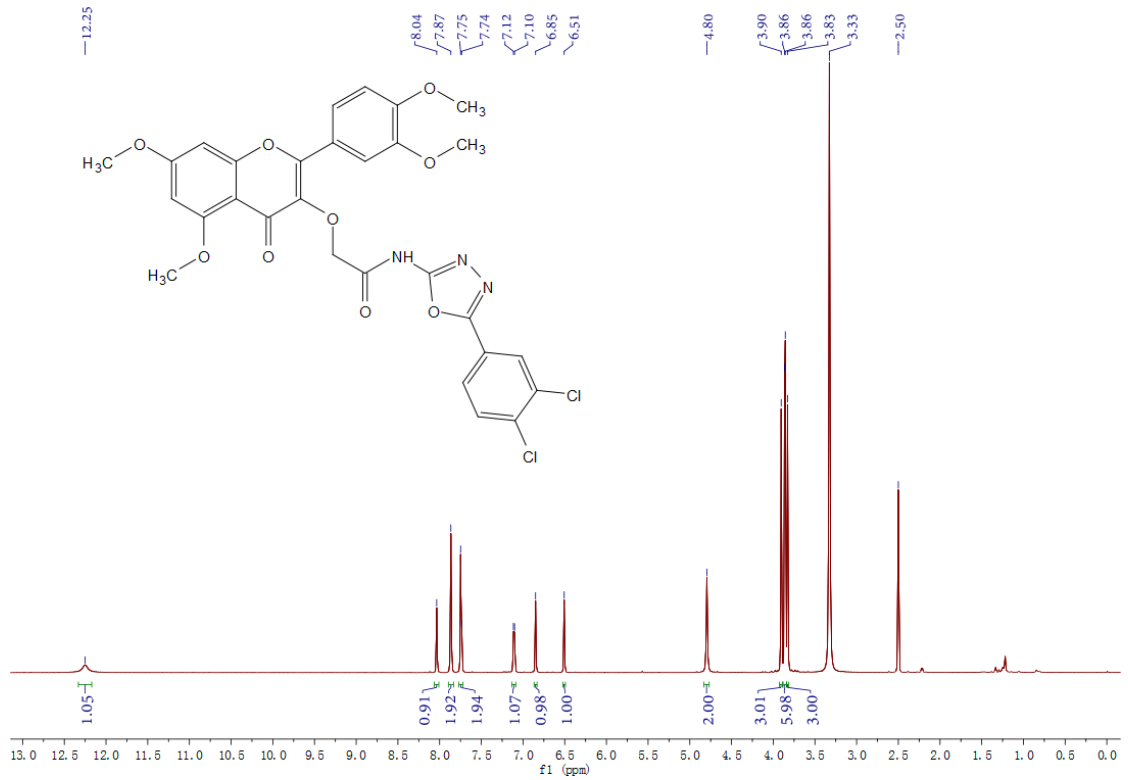


S81

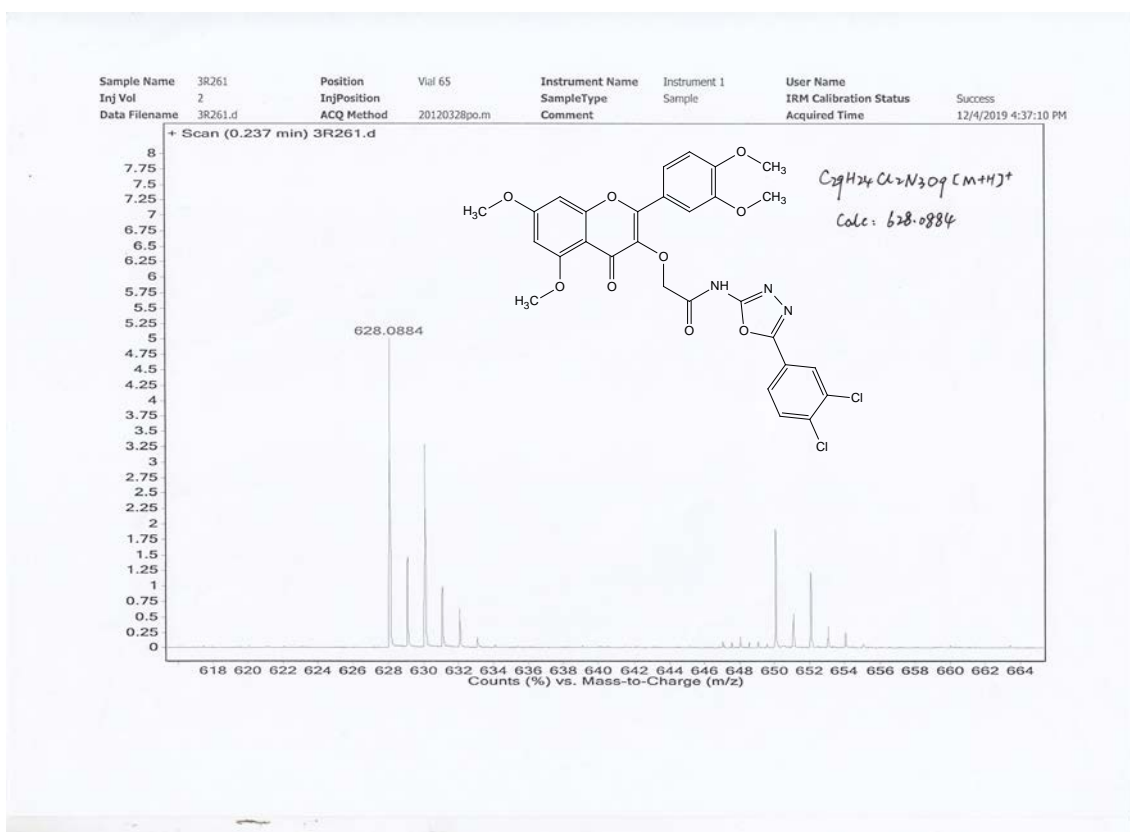


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B24

# B25

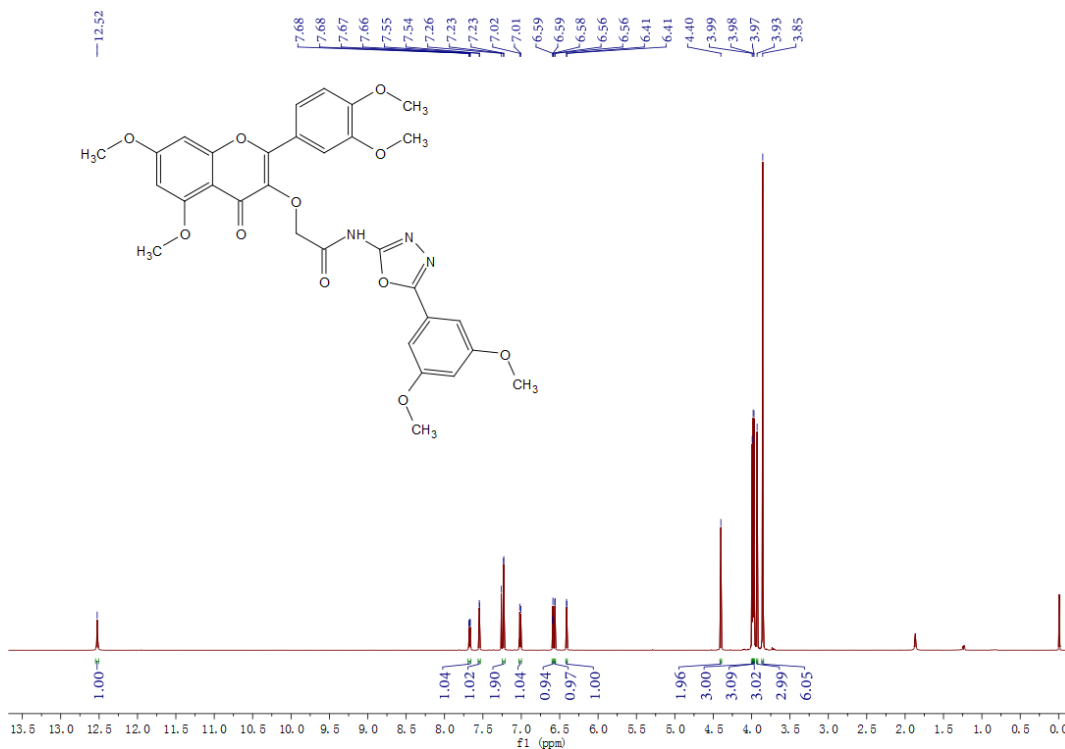


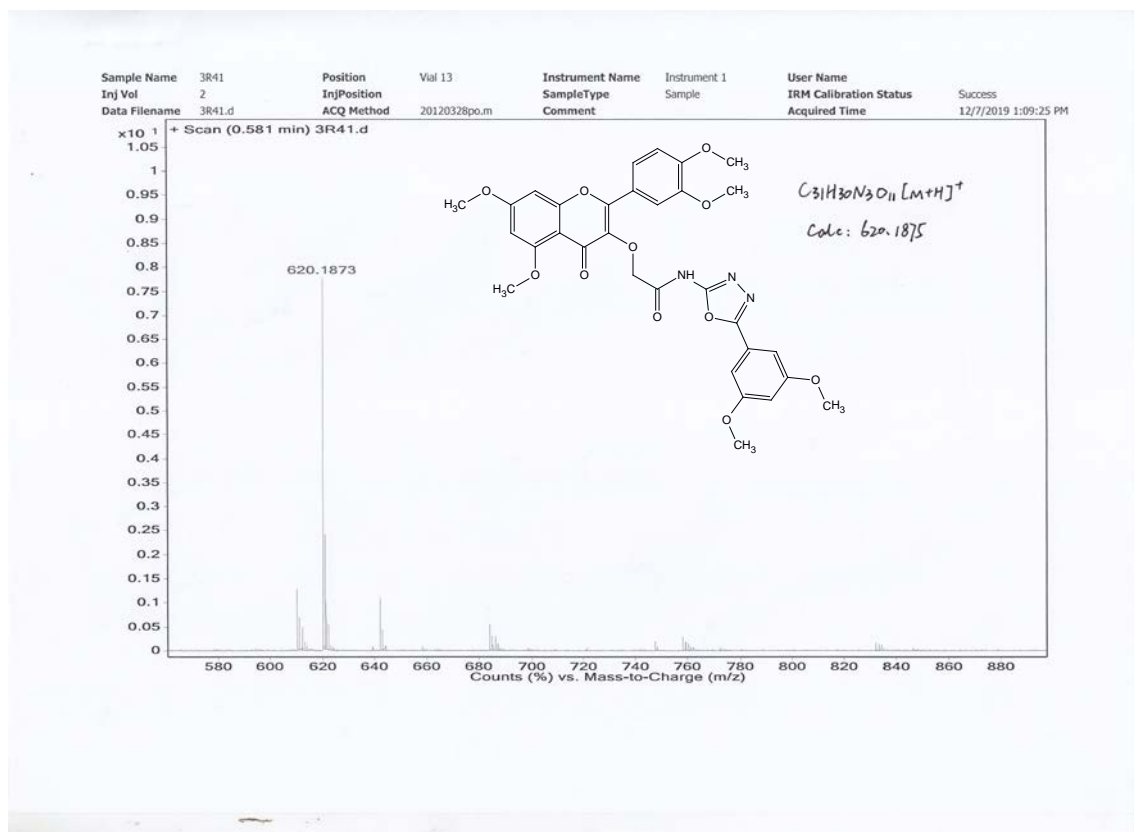
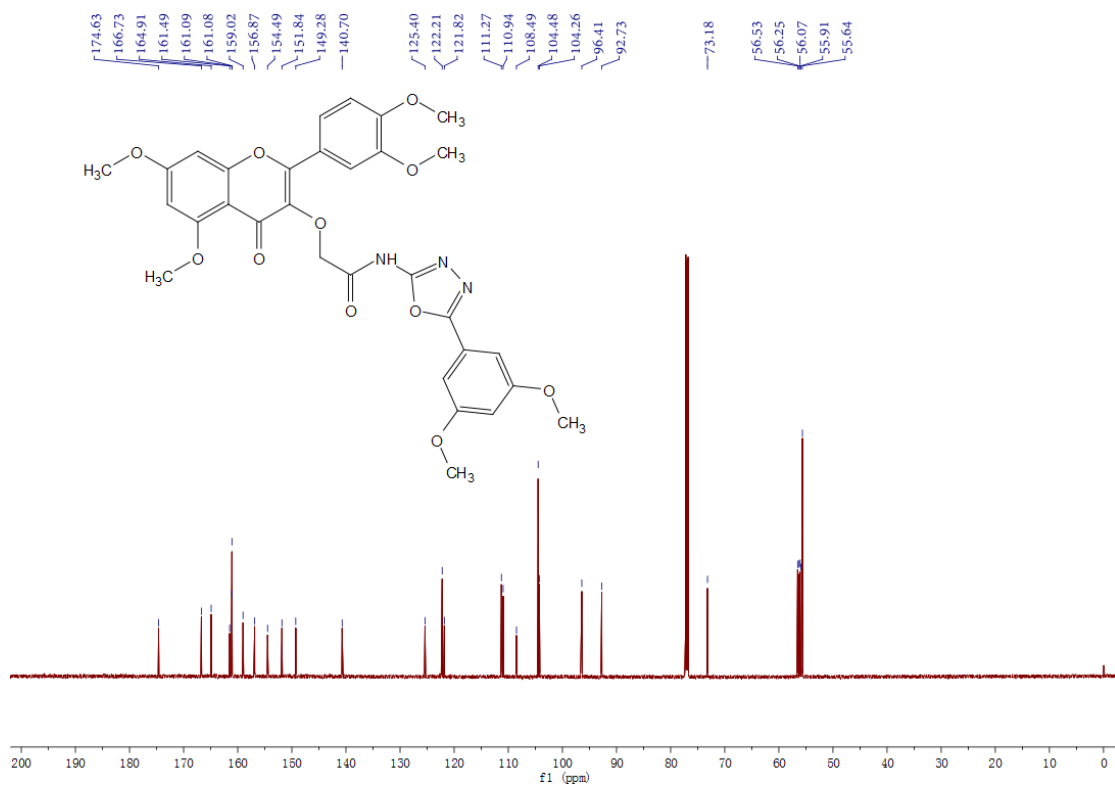




The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound B25

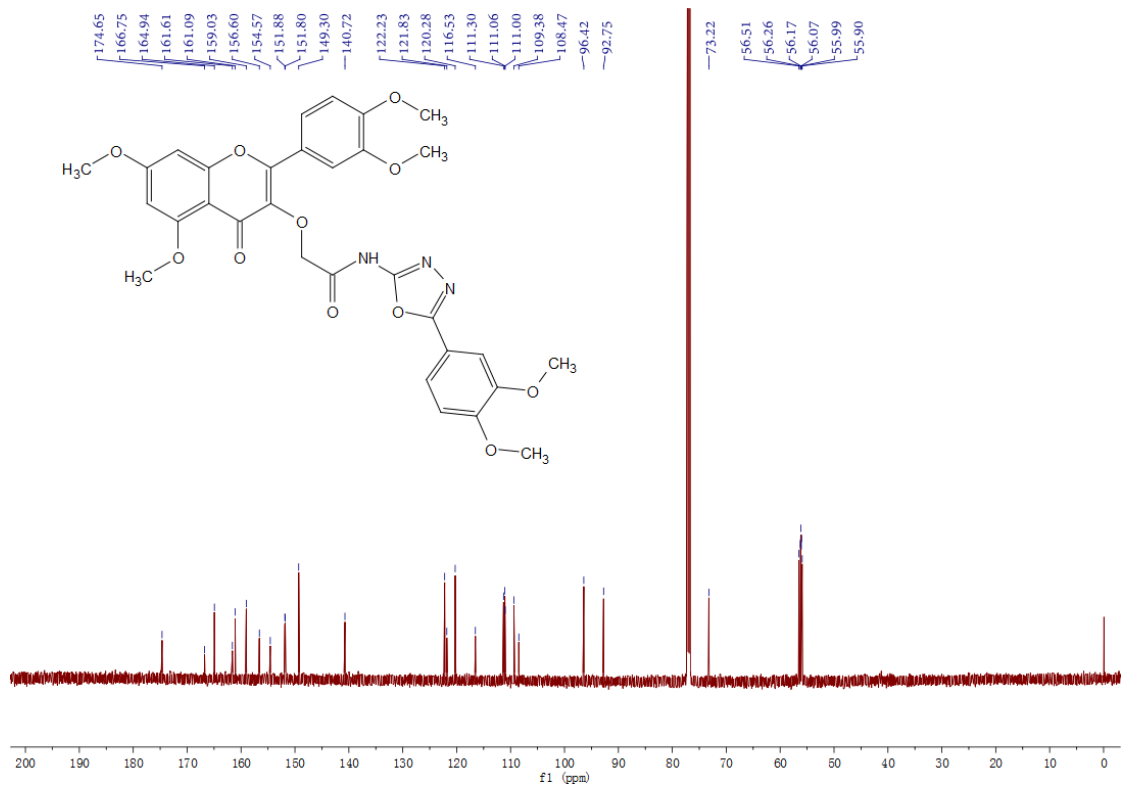
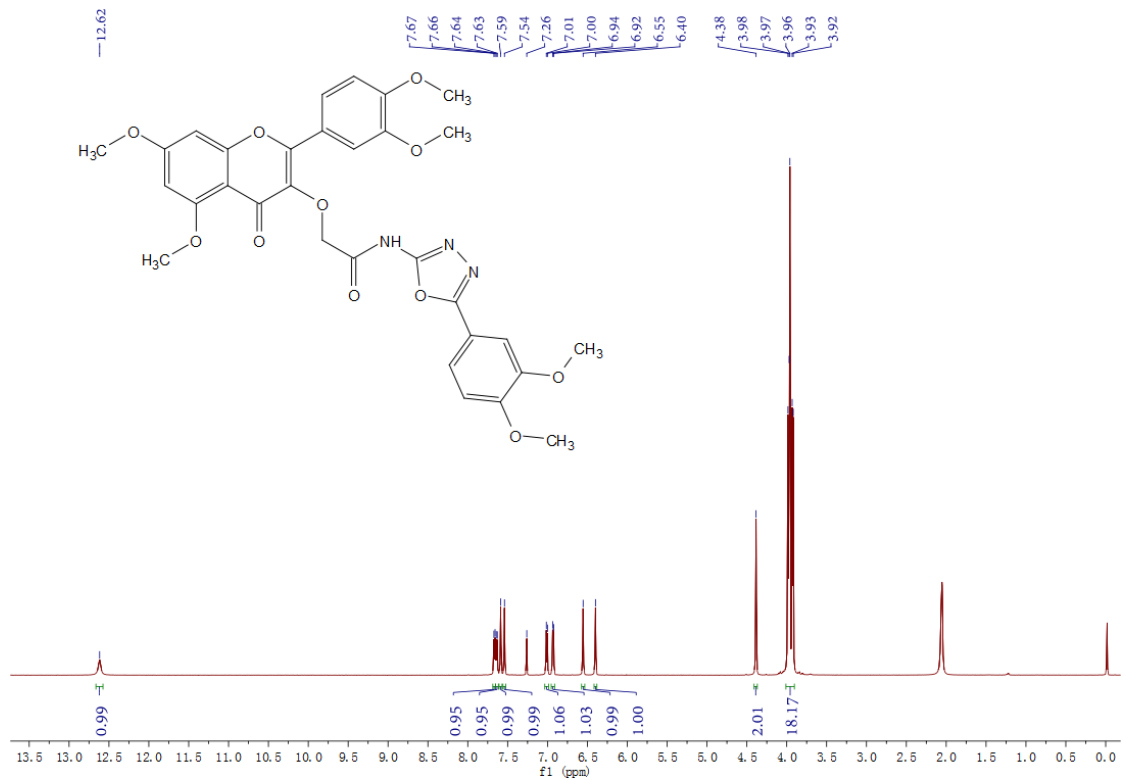
## B26

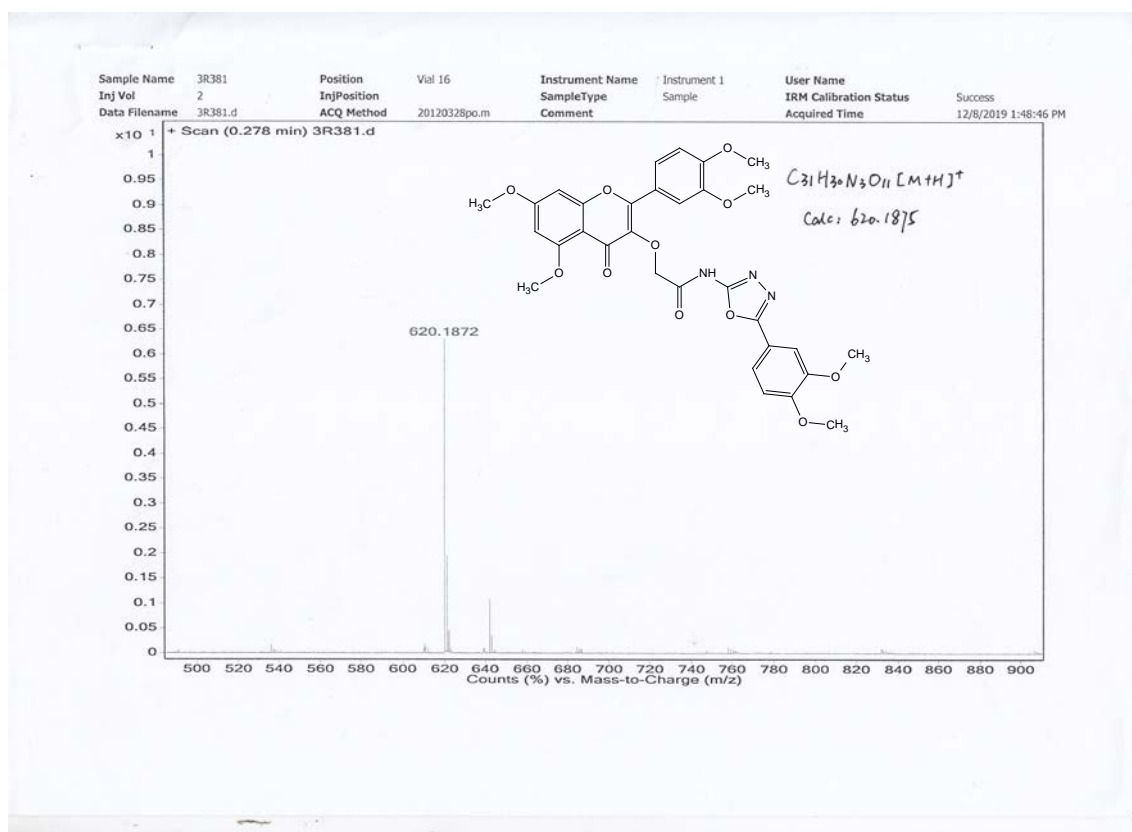




The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B26

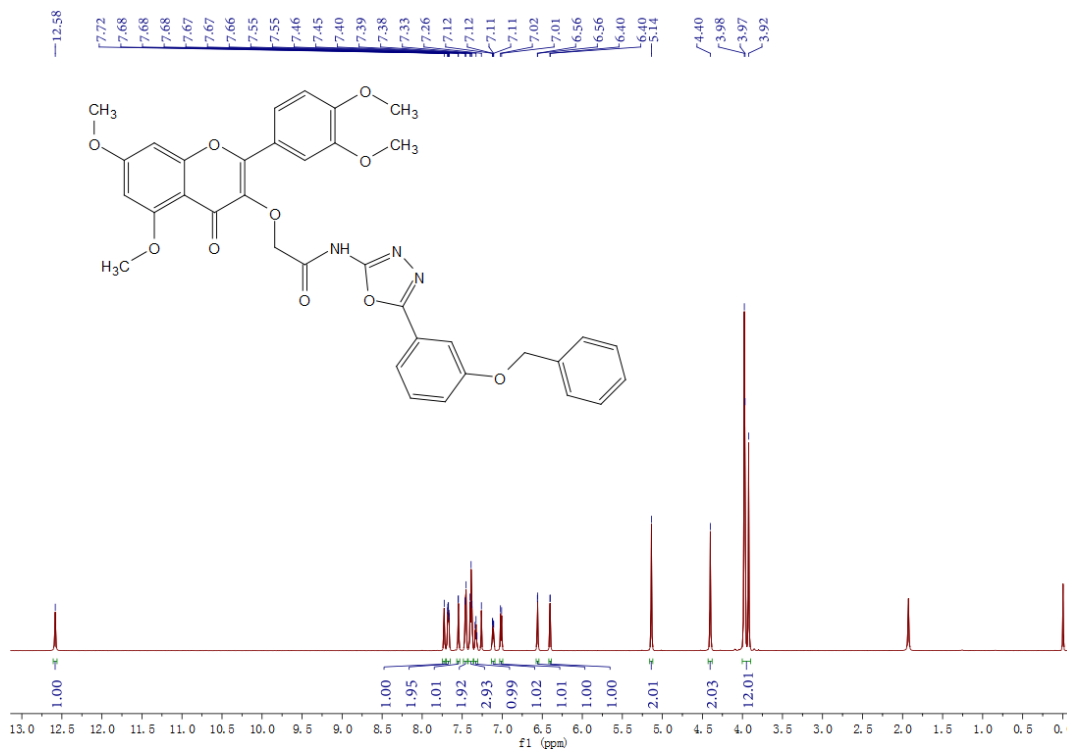
# B27



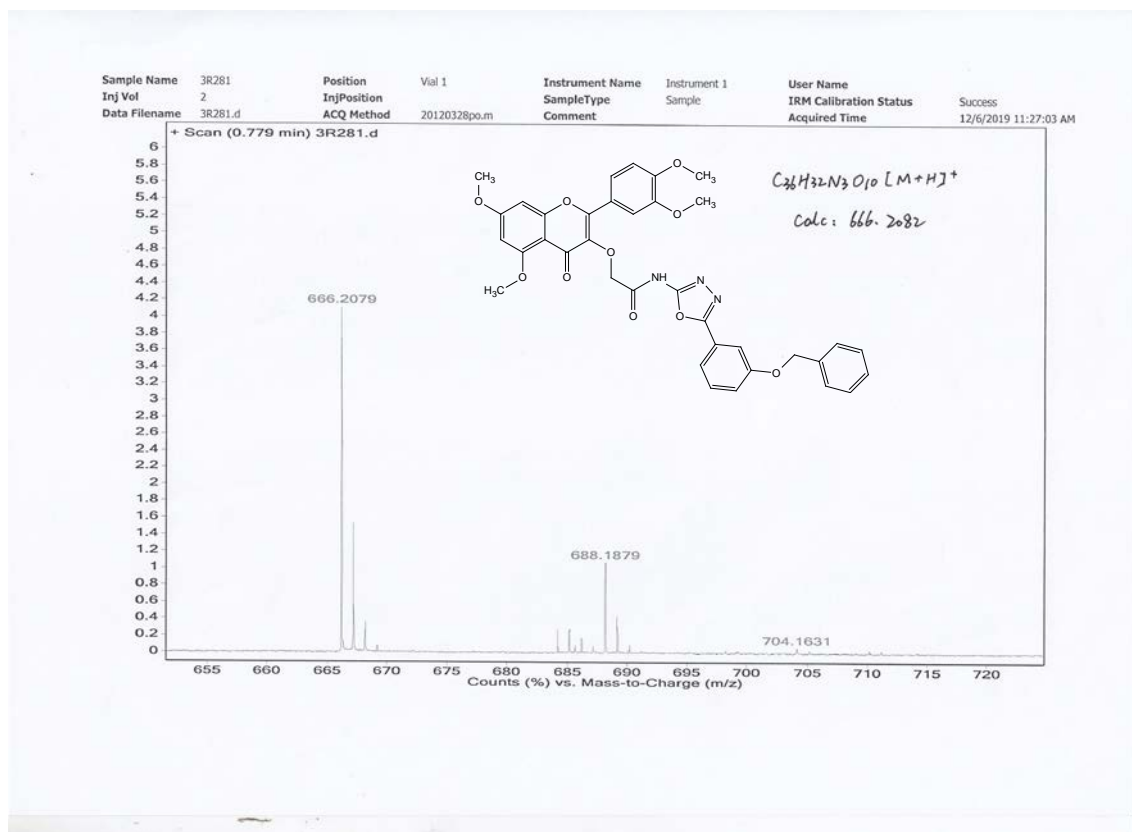
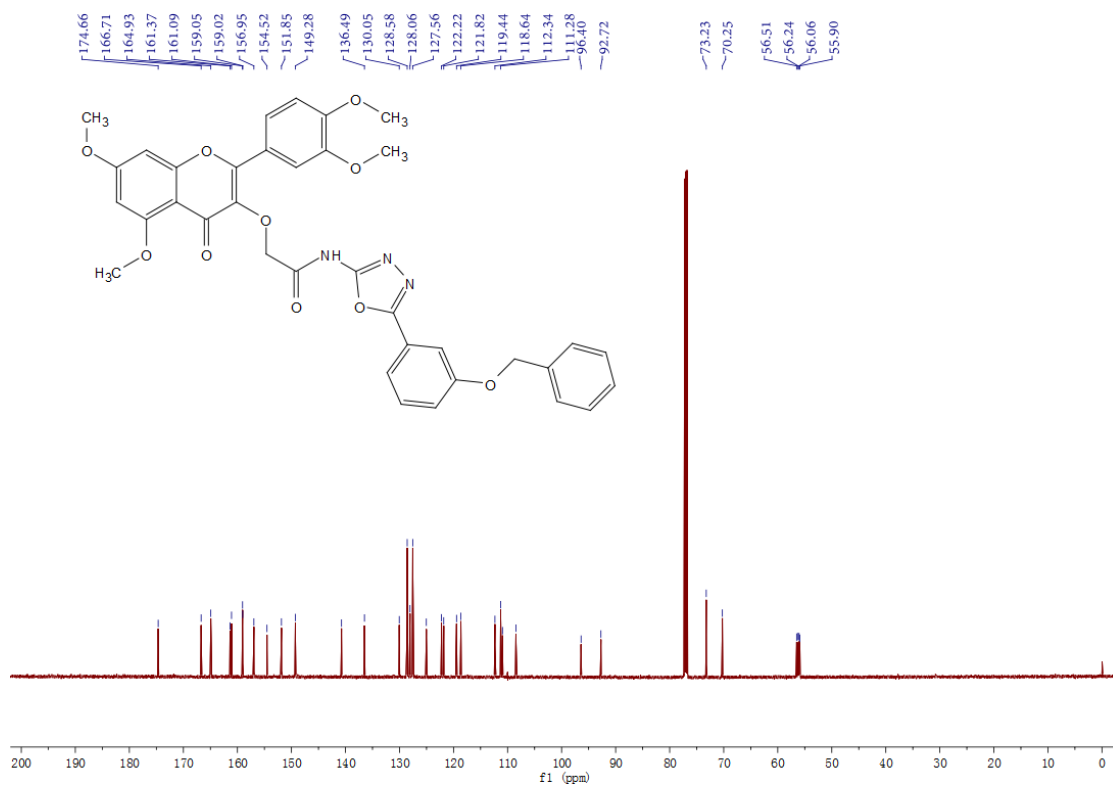


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B27

B28

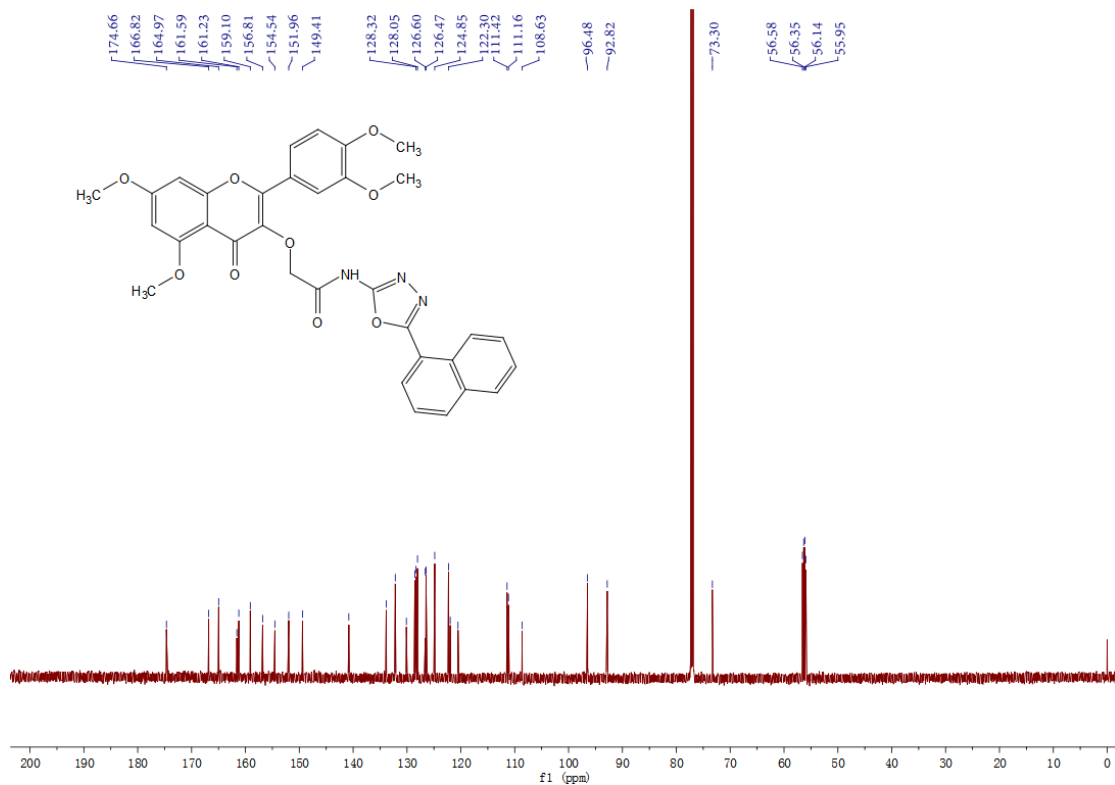
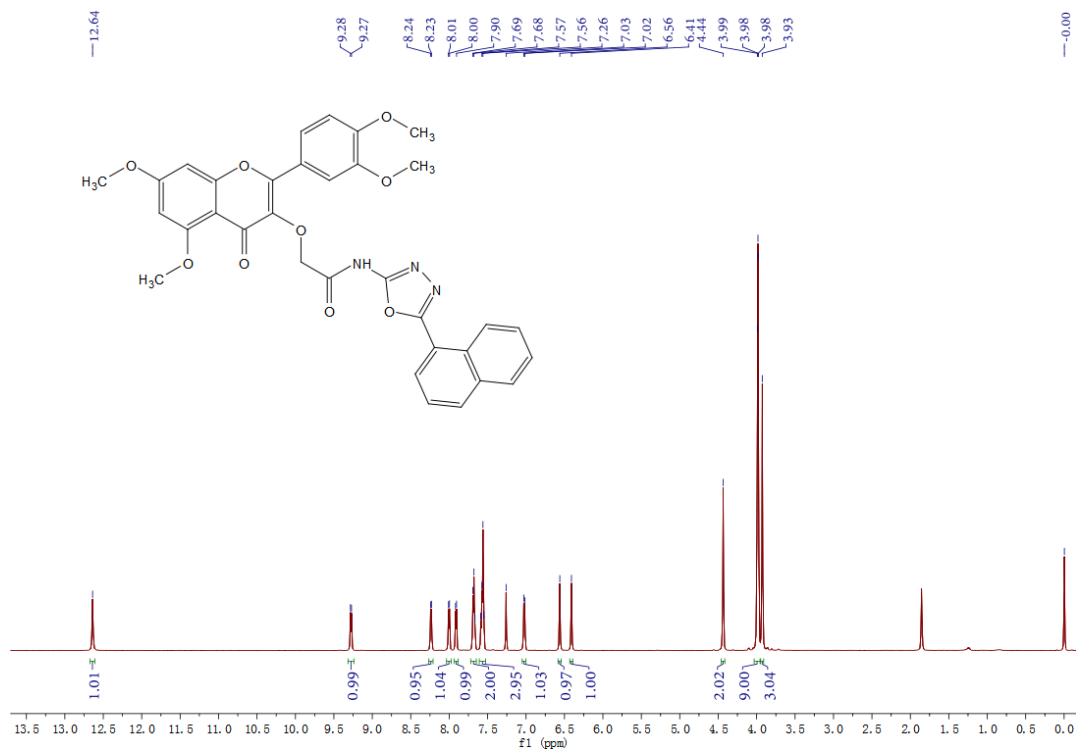


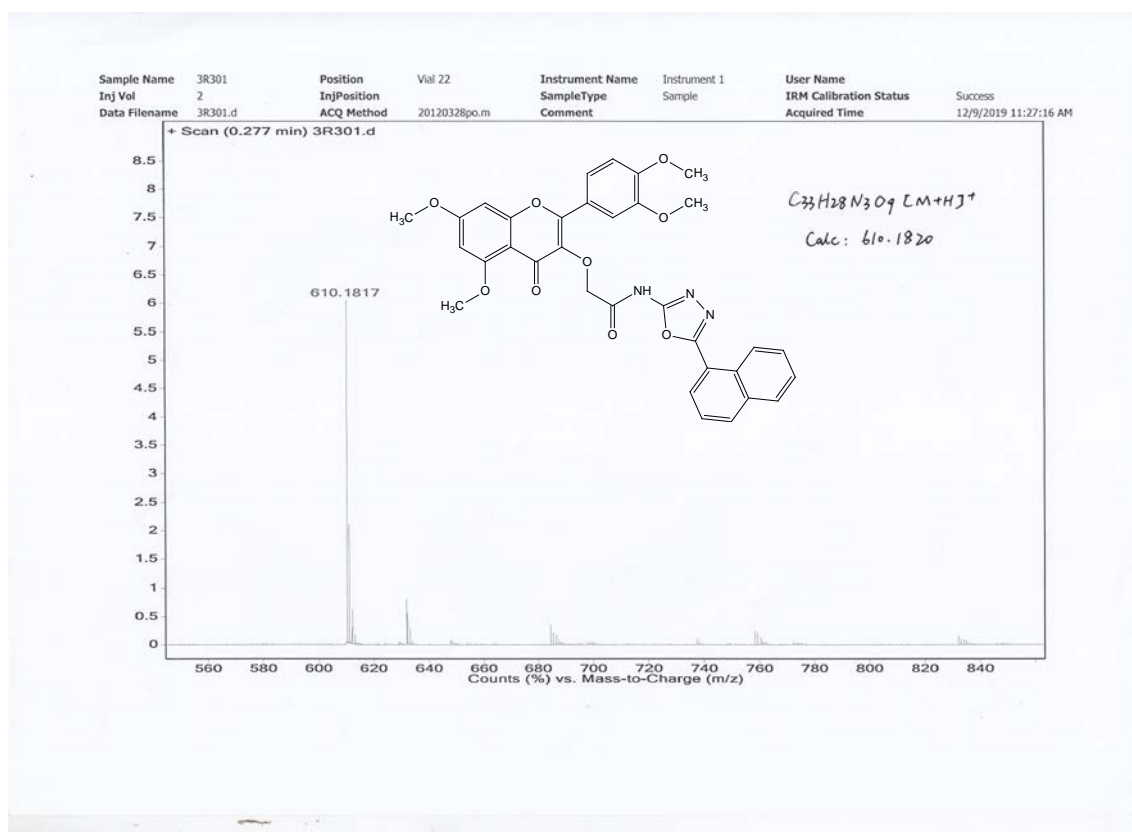
S87



The spectrum of  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR and HRMS of compound B28

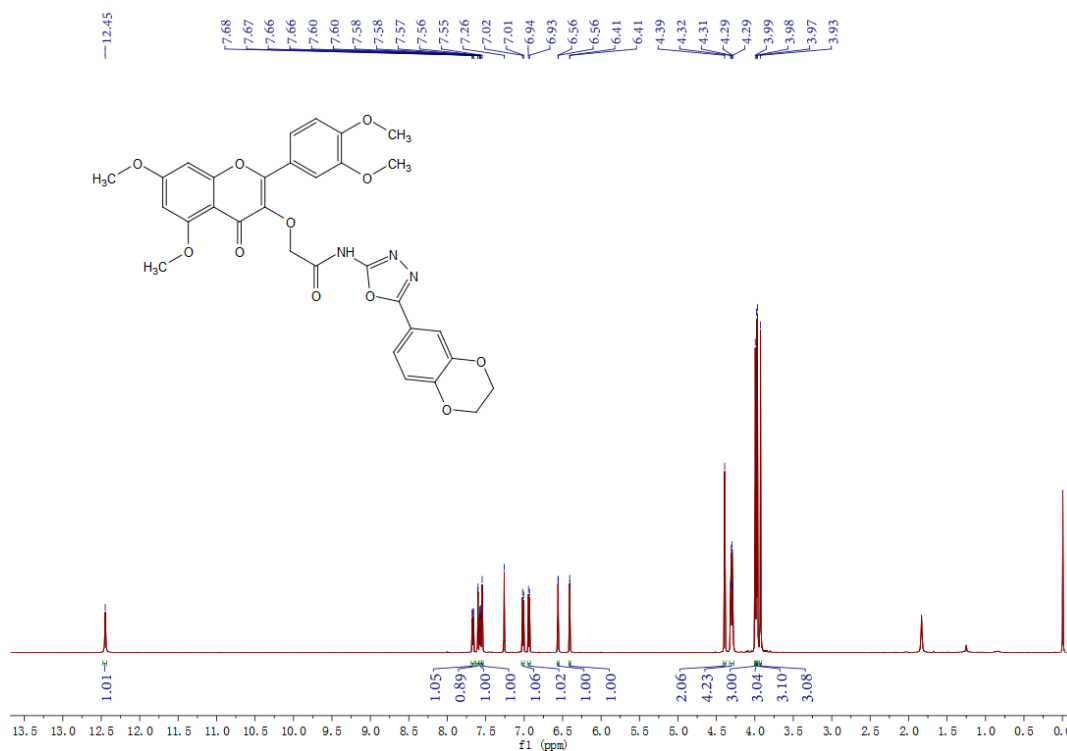
B29

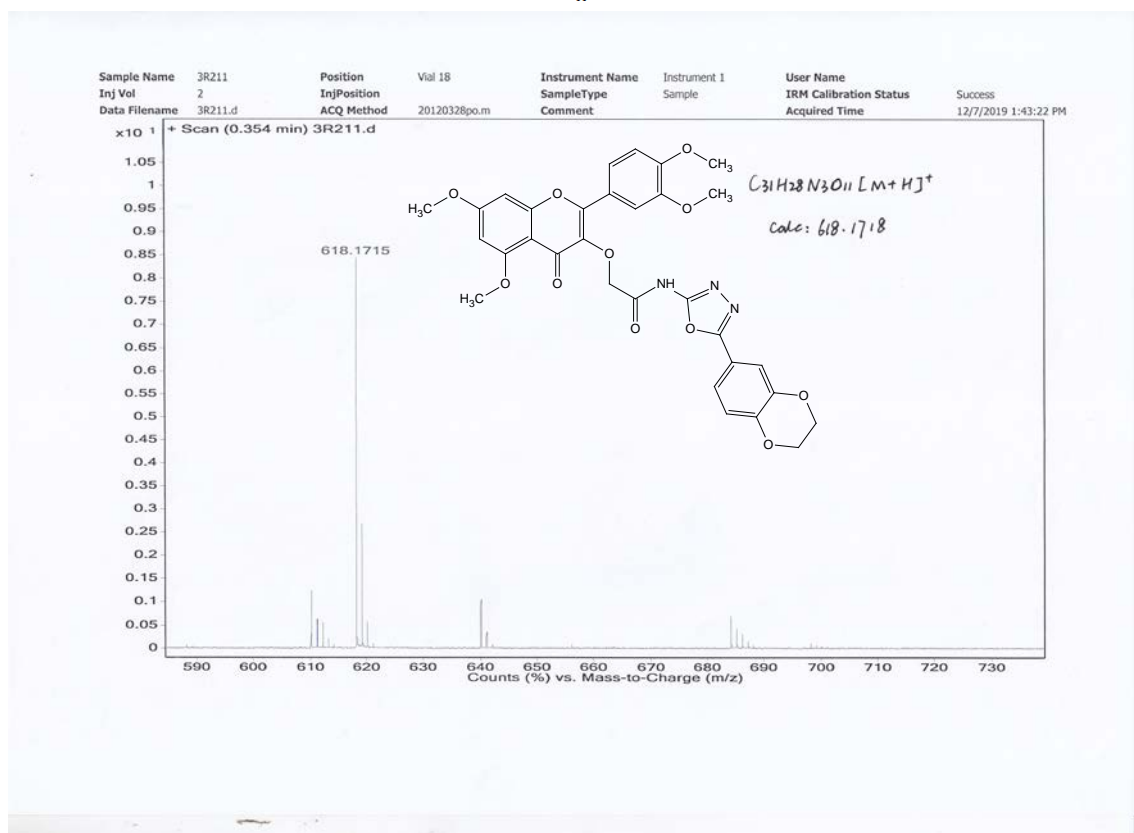
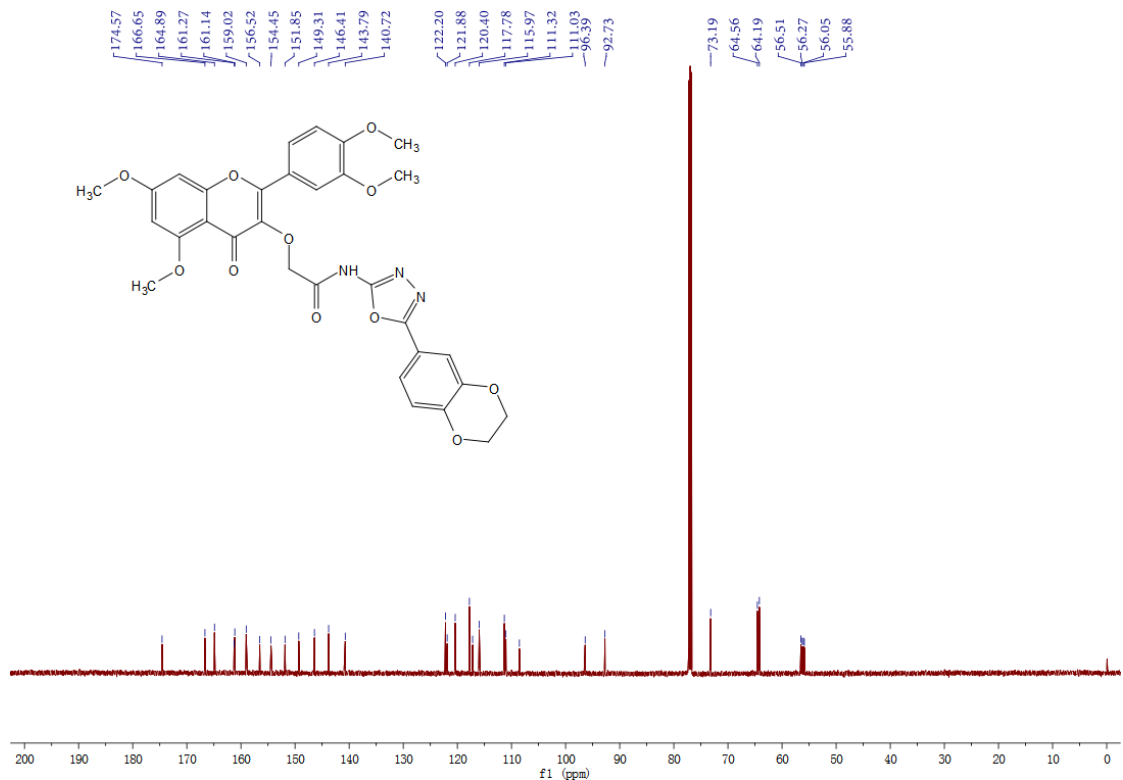




The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B29

### B30

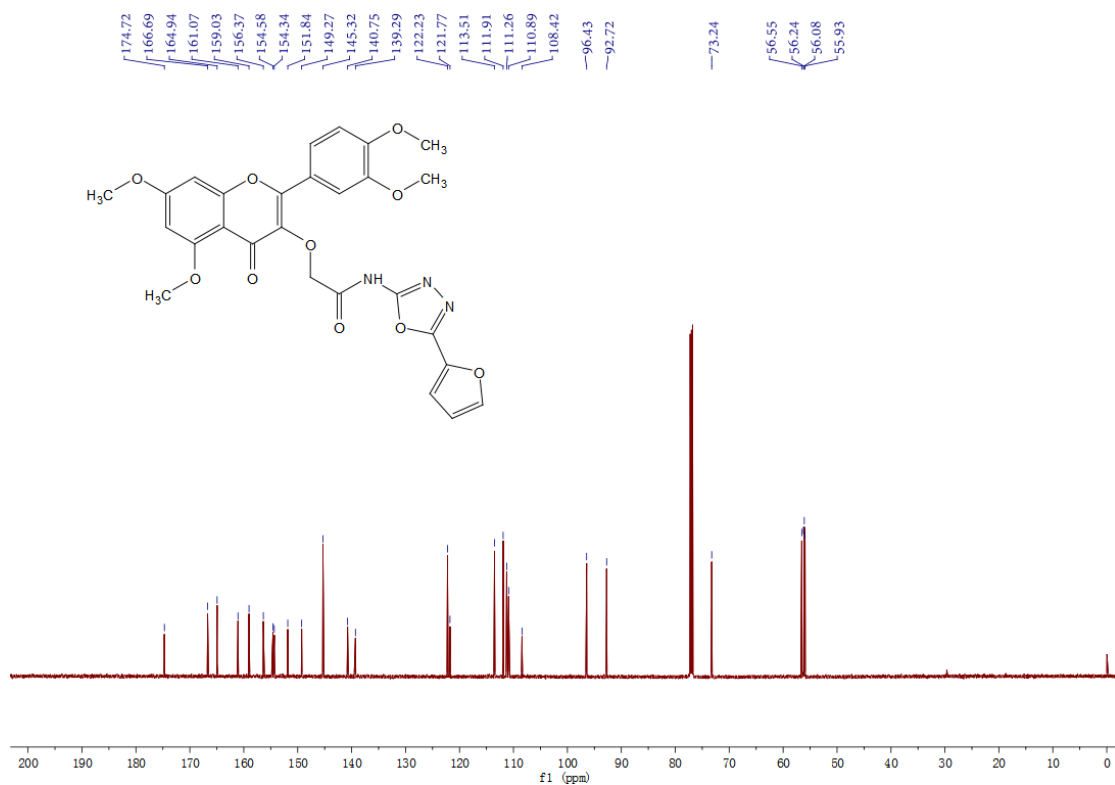
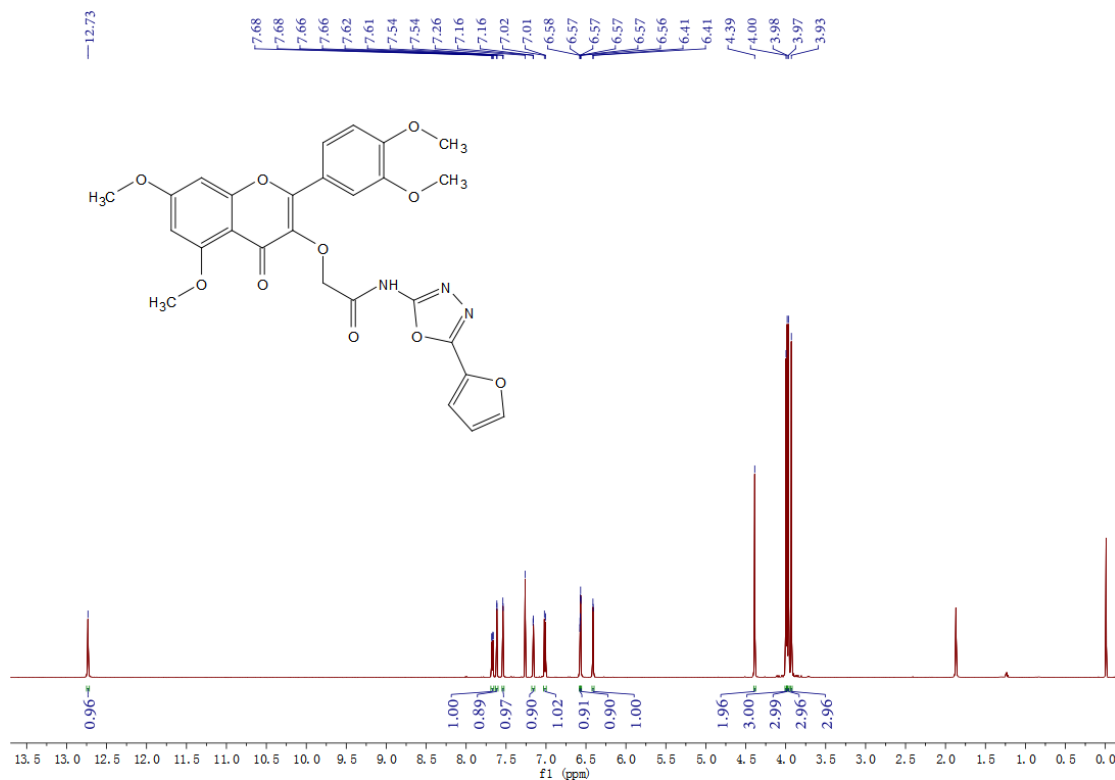


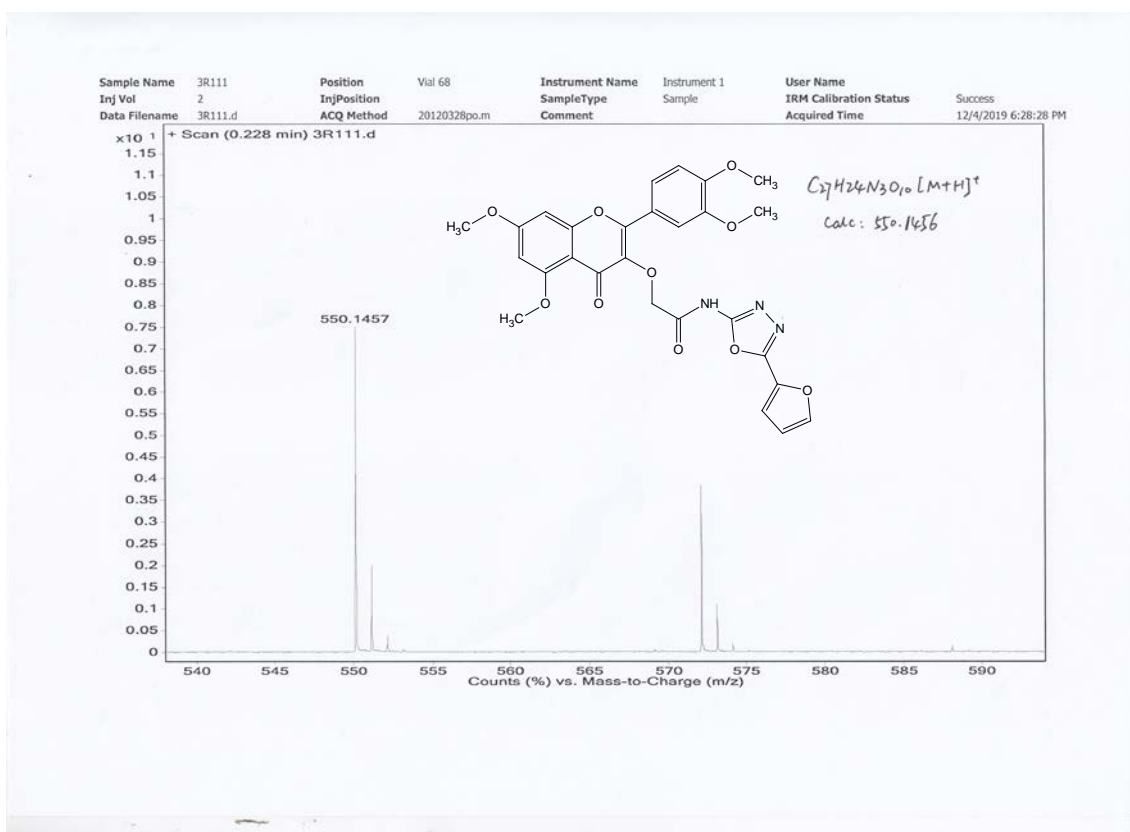


The spectrum of <sup>1</sup>H NMR, <sup>13</sup>C NMR and HRMS of compound B30



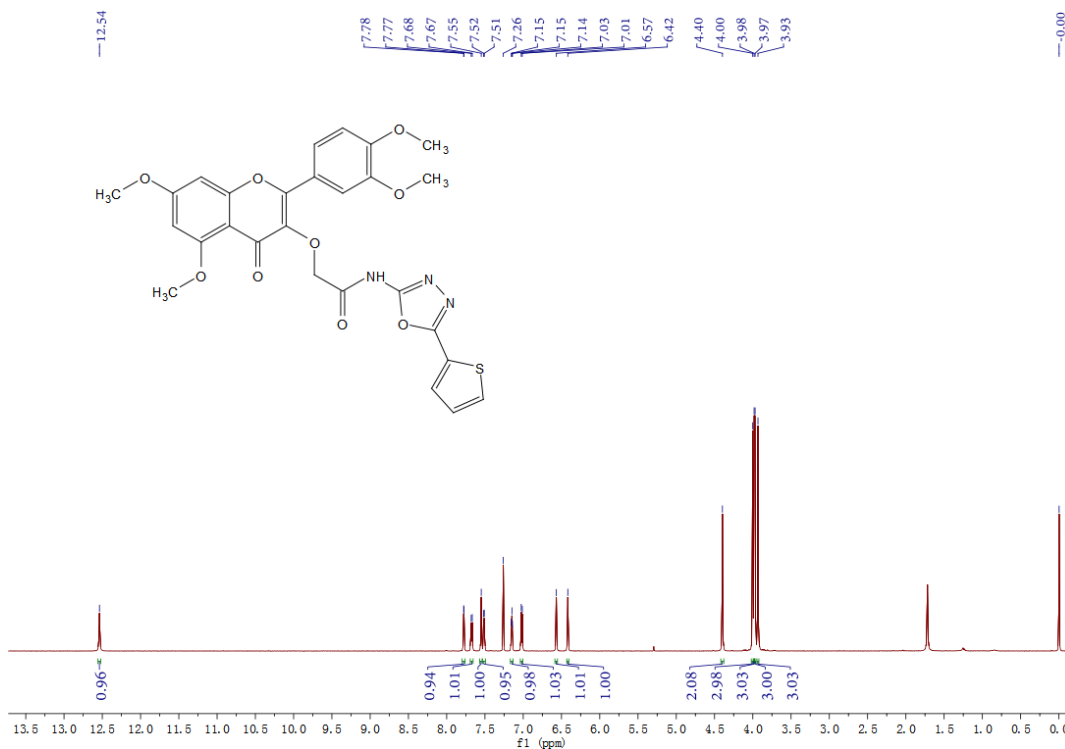
# B31



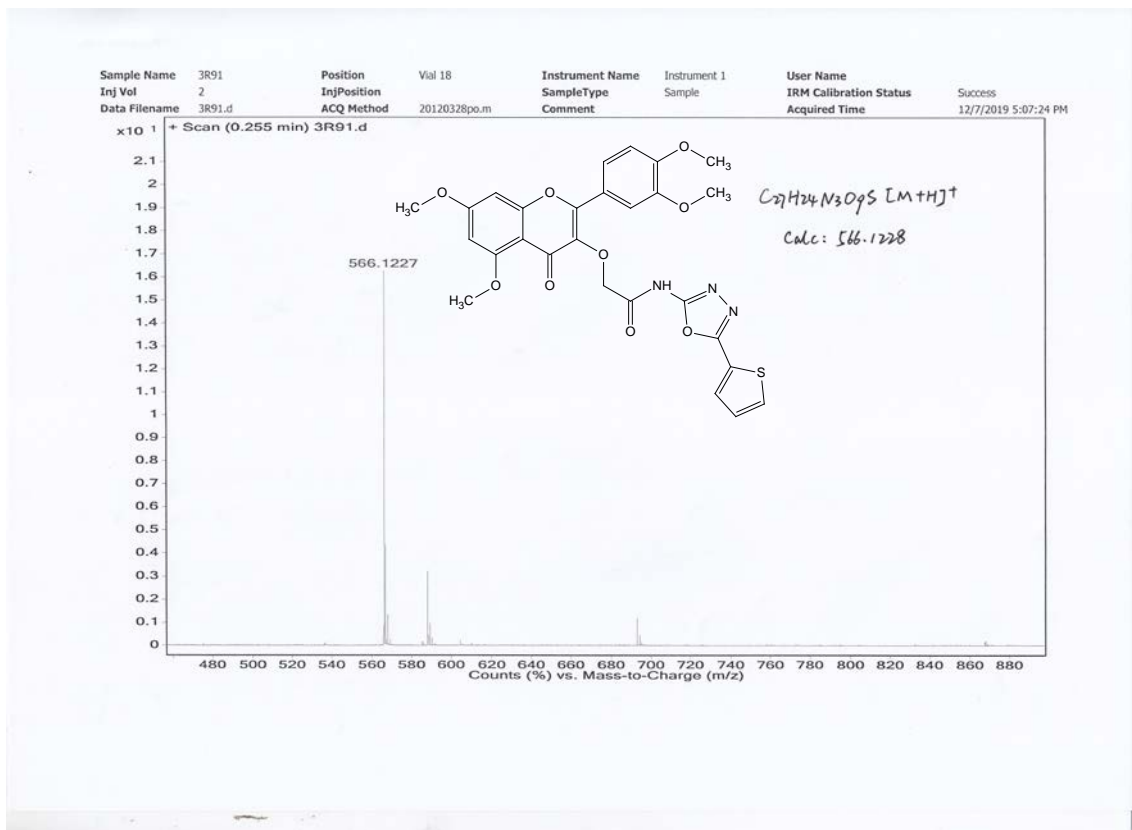
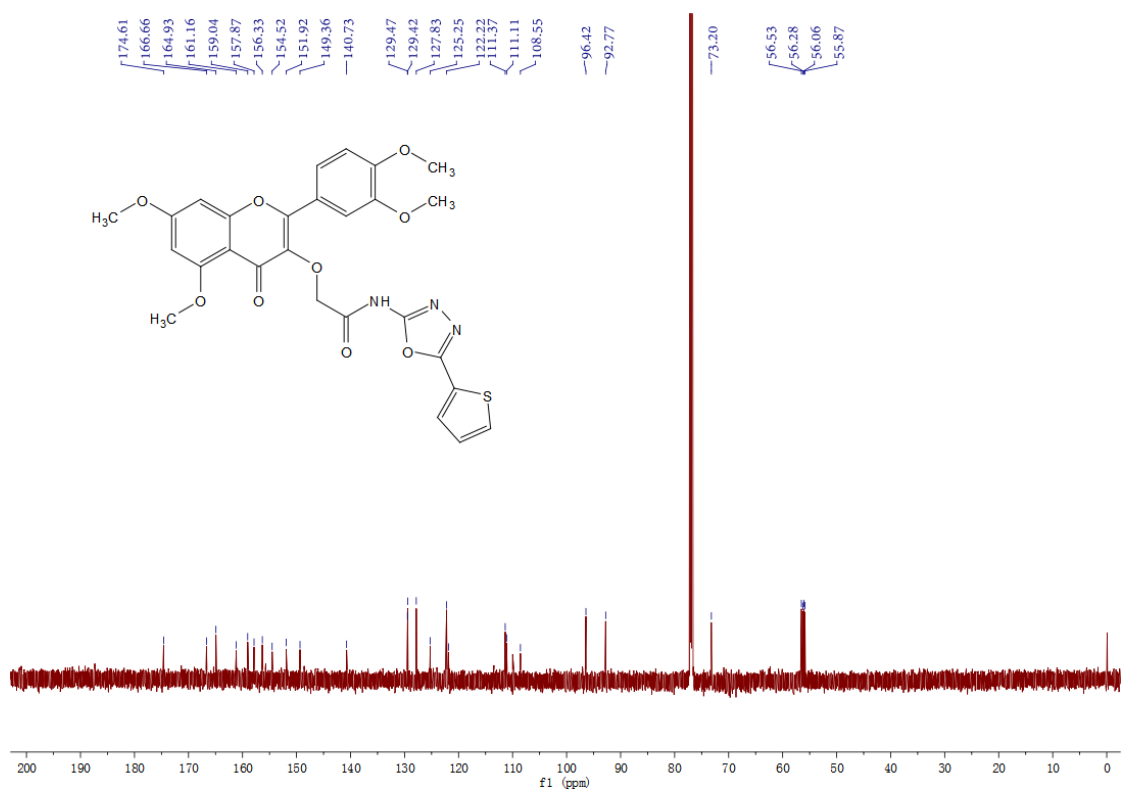


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B31

B32

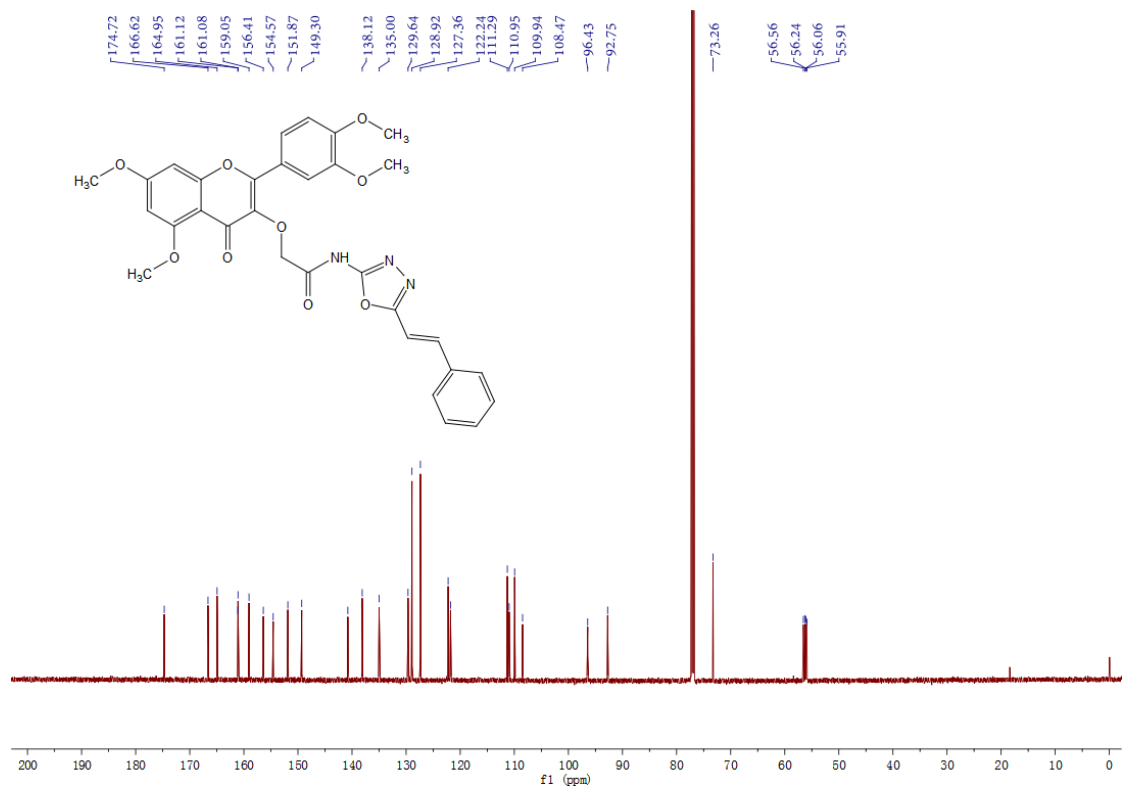
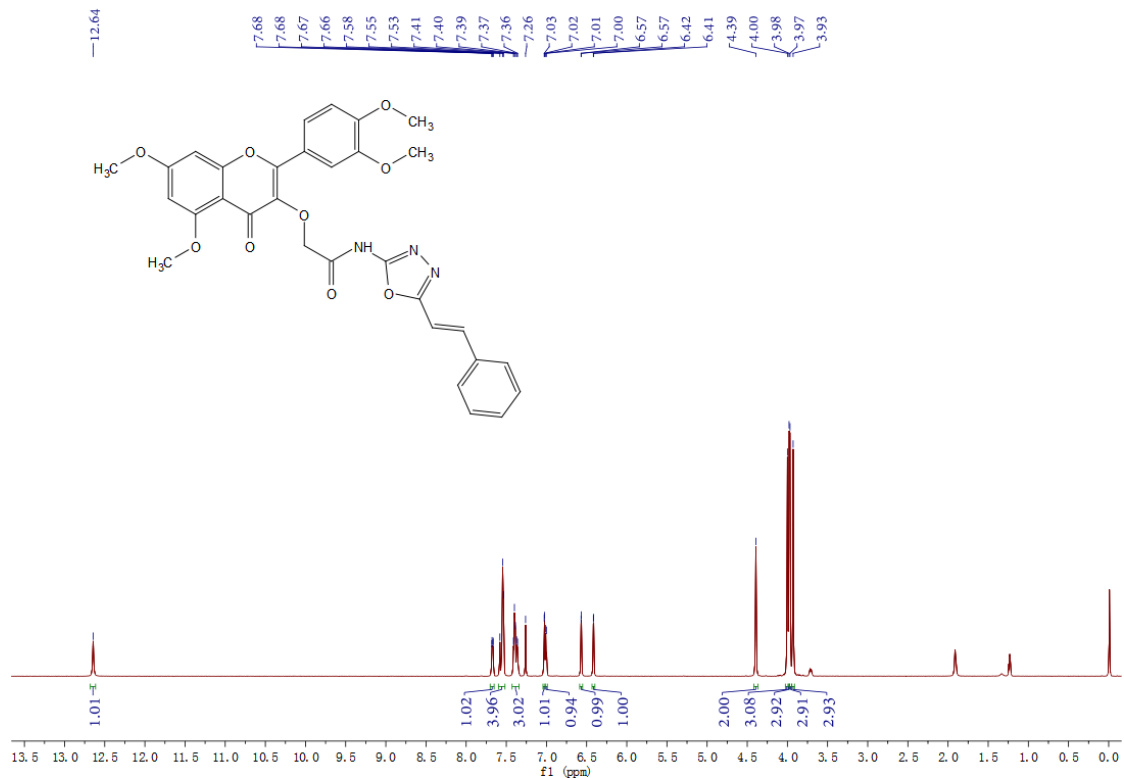


S93

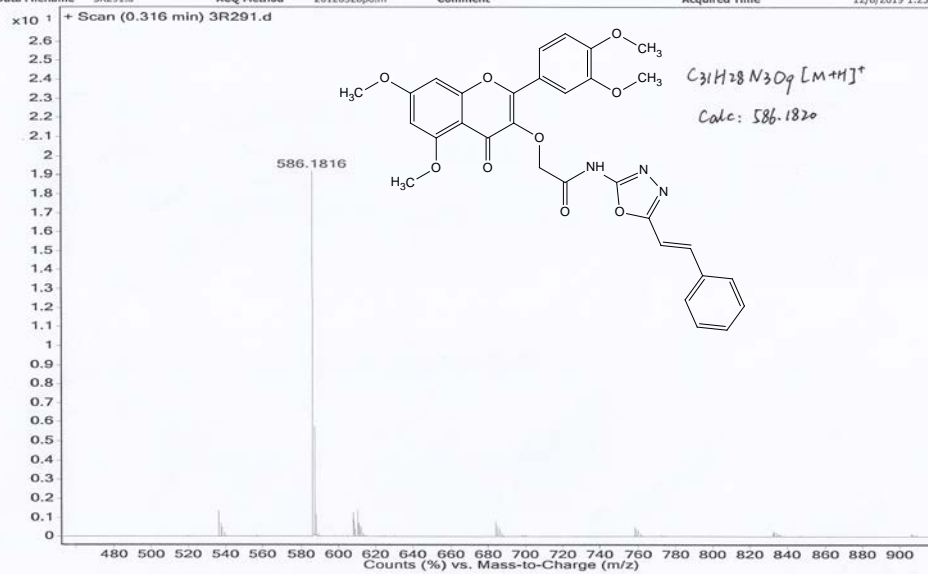


The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B32

**B33**



Sample Name	3R291	Position	Vial 13	Instrument Name	Instrument 1	User Name	
Inj Vol	2	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	3R291.d	ACQ Method	20120328po.m	Comment		Acquired Time	12/8/2019 1:25:45 PM



The spectrum of  $^1H$  NMR,  $^{13}C$  NMR and HRMS of compound B33

