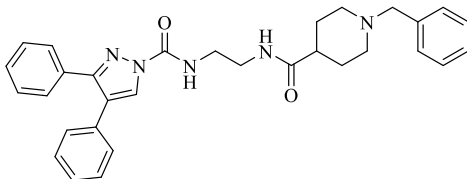
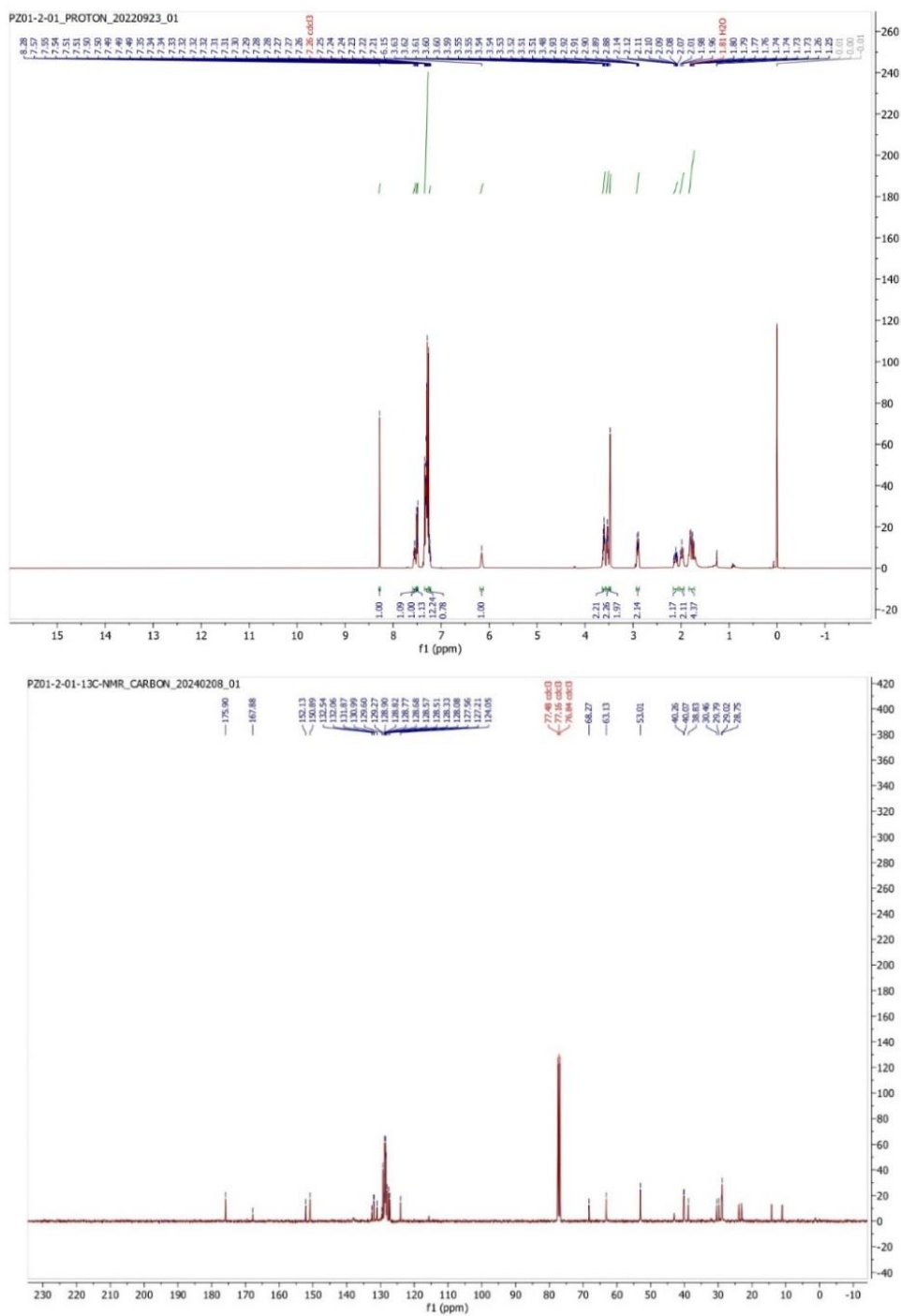
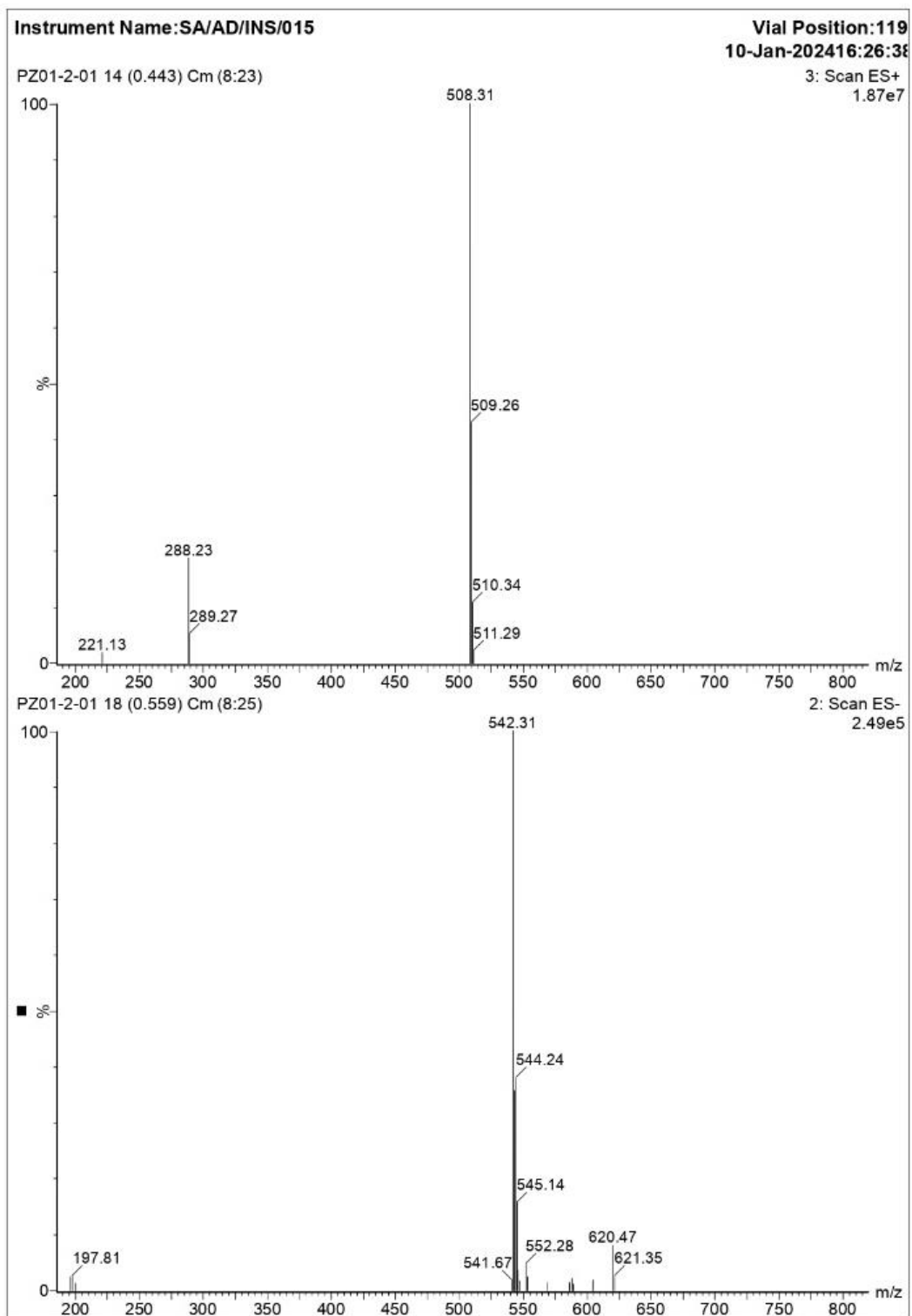
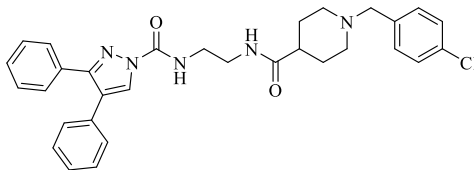


***N*-2-(3,4-diphenyl-1*H*-pyrazole-1-carboxamido)ethyl-1-benzylpiperidine-4-carboxamide (91)****<sup>1</sup>H & <sup>13</sup>C NMR spectra**

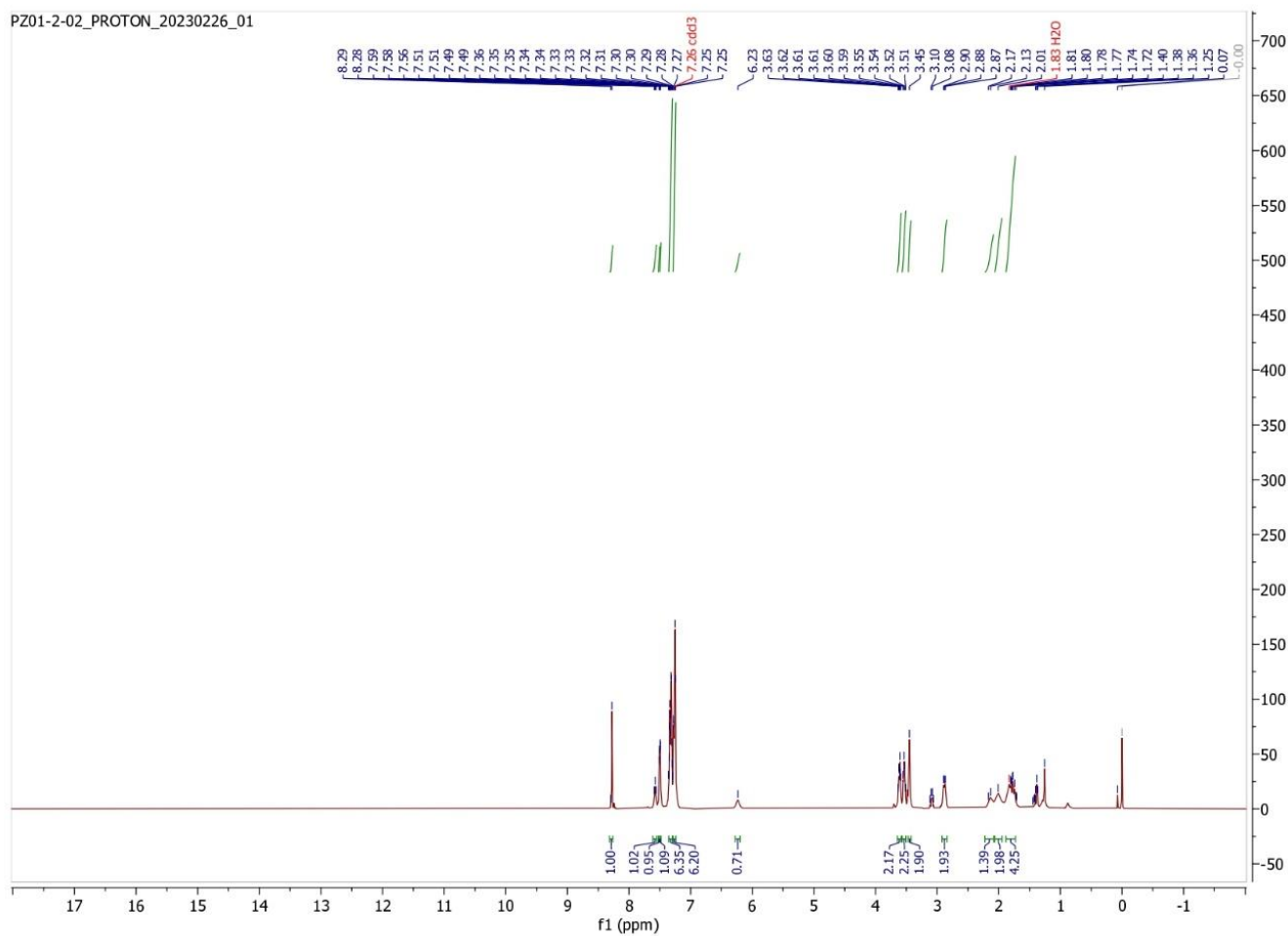
## Mass spectra:



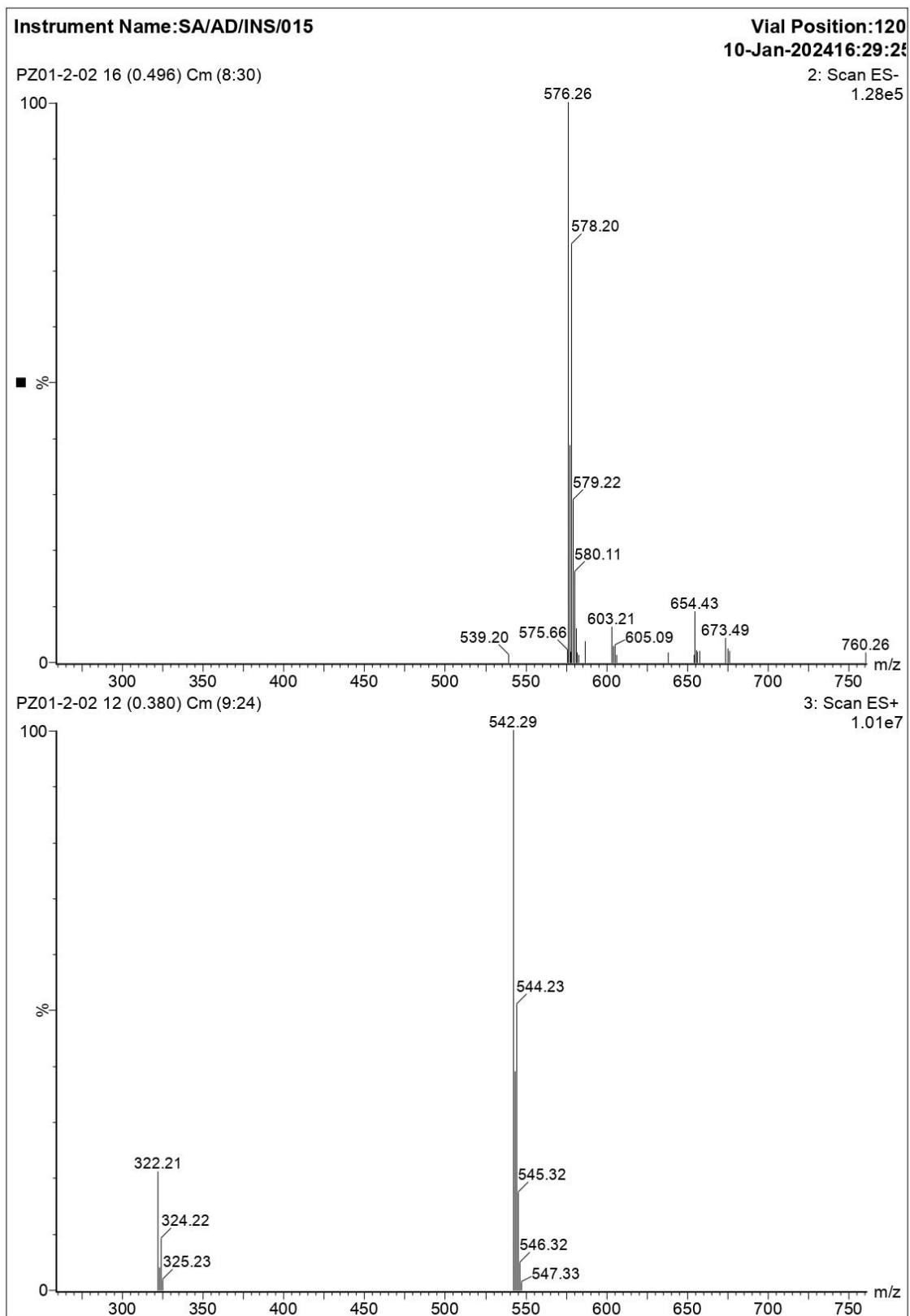
*N*-(2-(3,4-diphenyl-1*H*-pyrazole-1-carboxamido)ethyl)-1-(4-chlorobenzyl)piperidine-4-carboxamide (92):

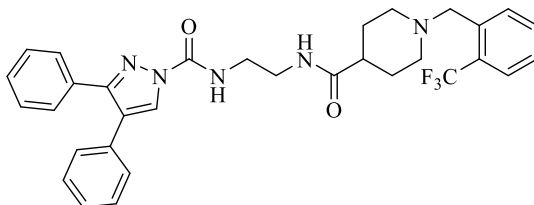
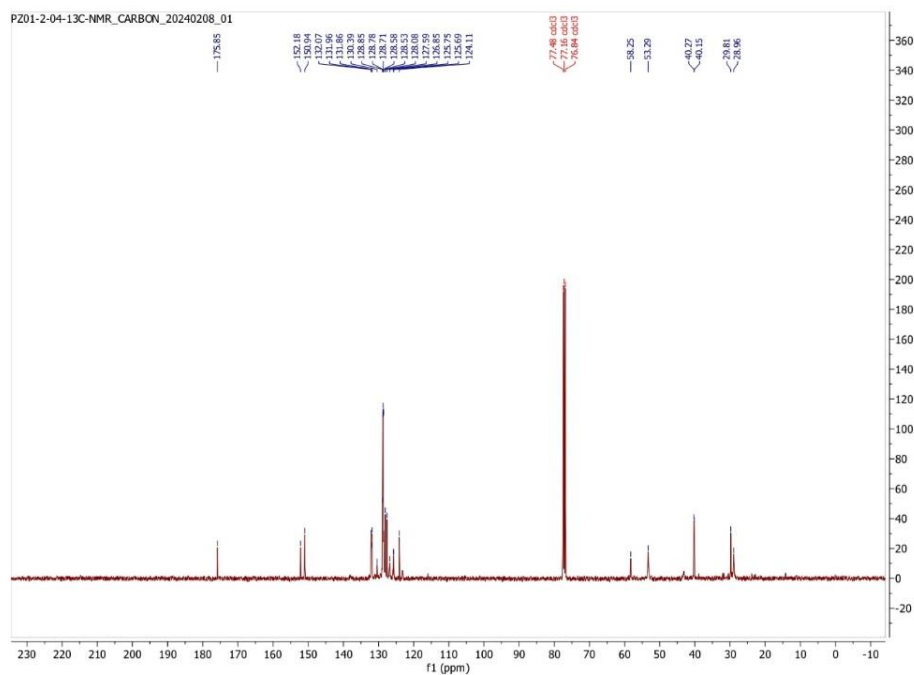
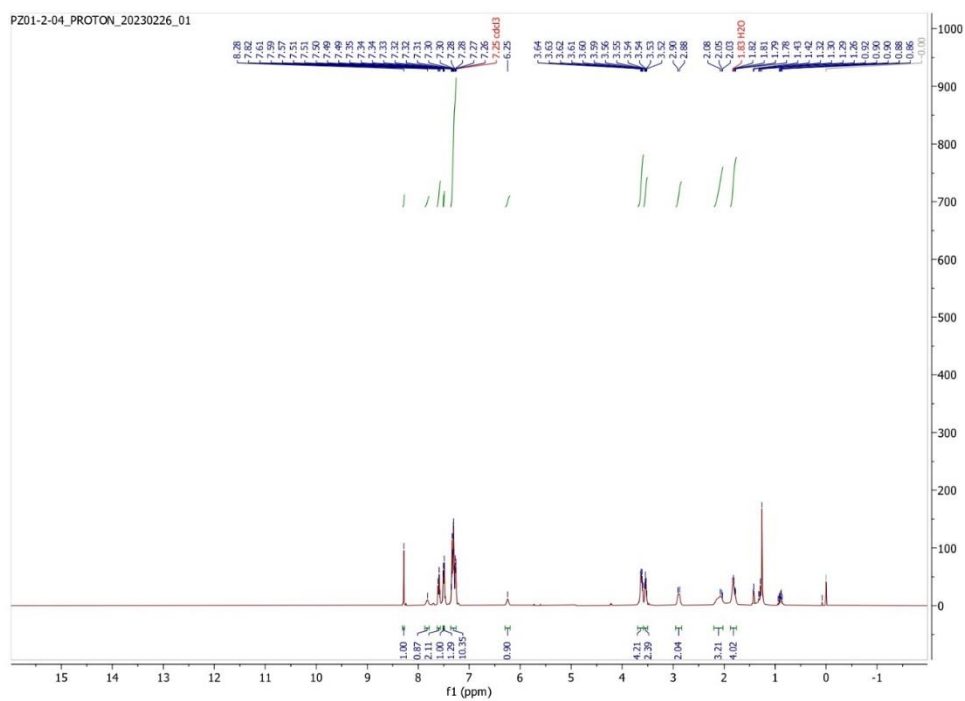


<sup>1</sup>H NMR spectra

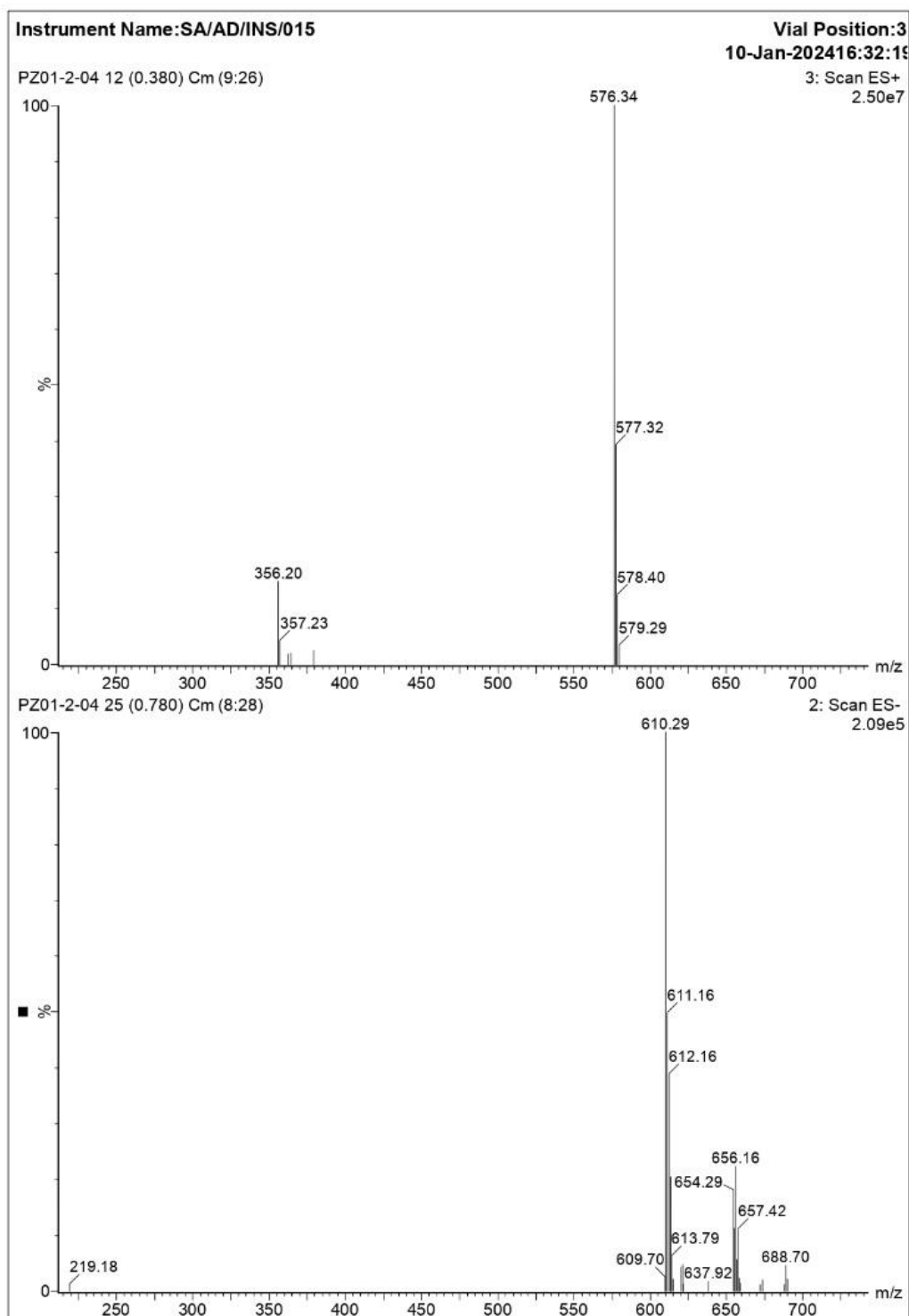


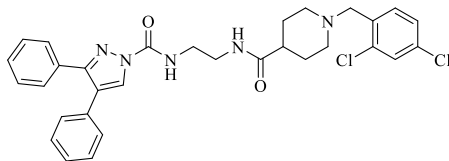
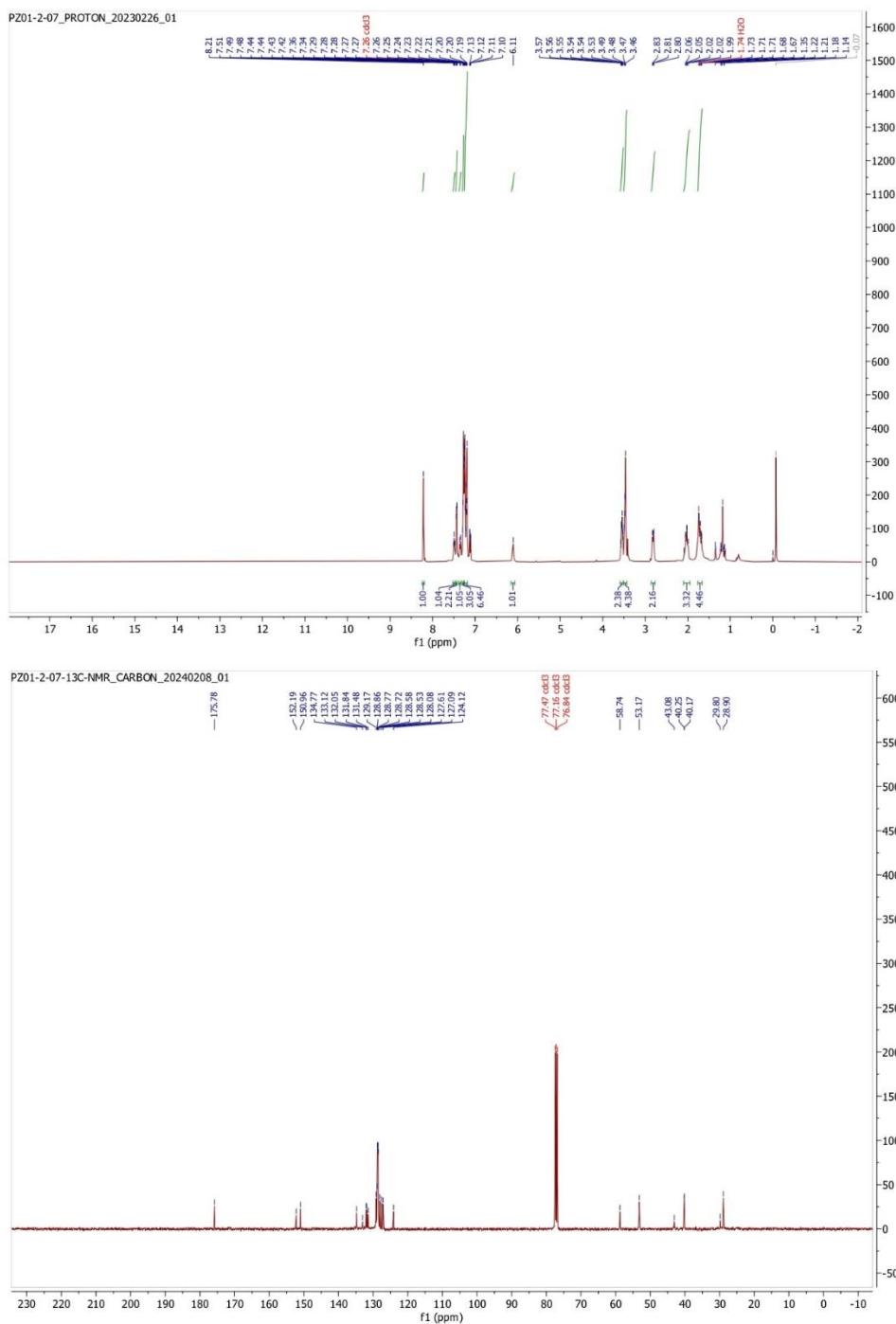
## Mass spectra



**1-(2-(trifluoromethyl)benzyl)-N-(2-(3,4-diphenyl-1H-pyrazole-1-carboxamido)ethyl)piperidine-4-carboxamide (93)****<sup>1</sup>H & <sup>13</sup>C NMR spectra**

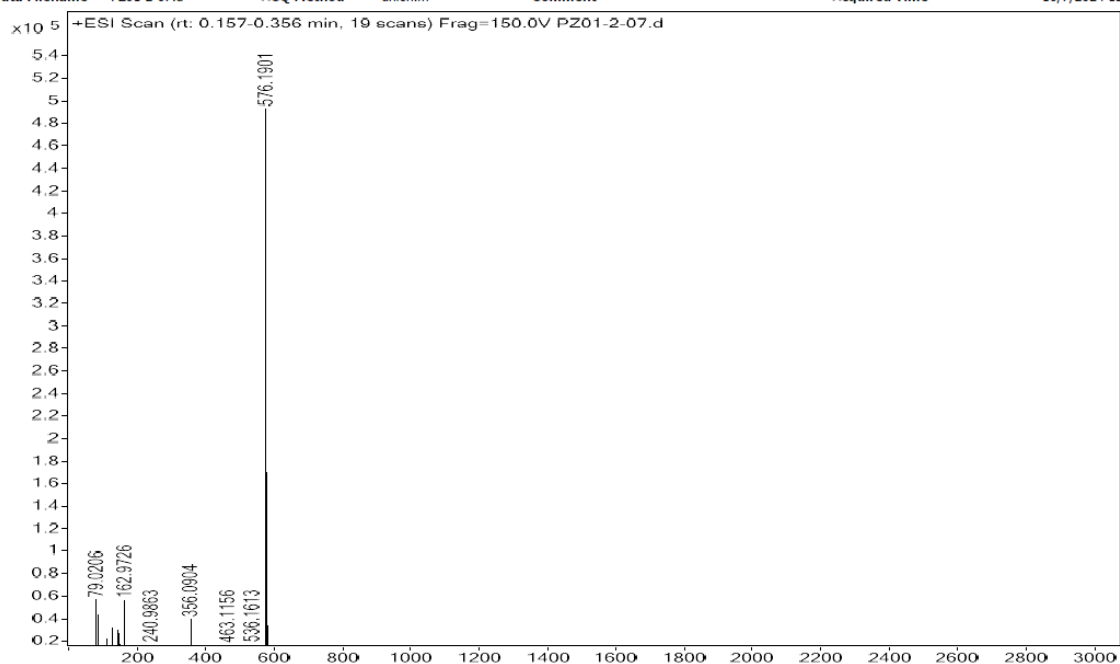
## Mass spectra



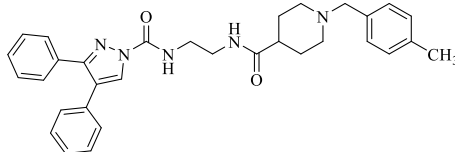
**1-(2,4-dichlorobenzyl)-N-(2-(3,4-diphenyl-1H-pyrazole-1-carboxamido)ethyl)piperidine-4-carboxamide (95)** **$^1\text{H}$  &  $^{13}\text{C}$  NMR spectra**

## HRMS spectra:

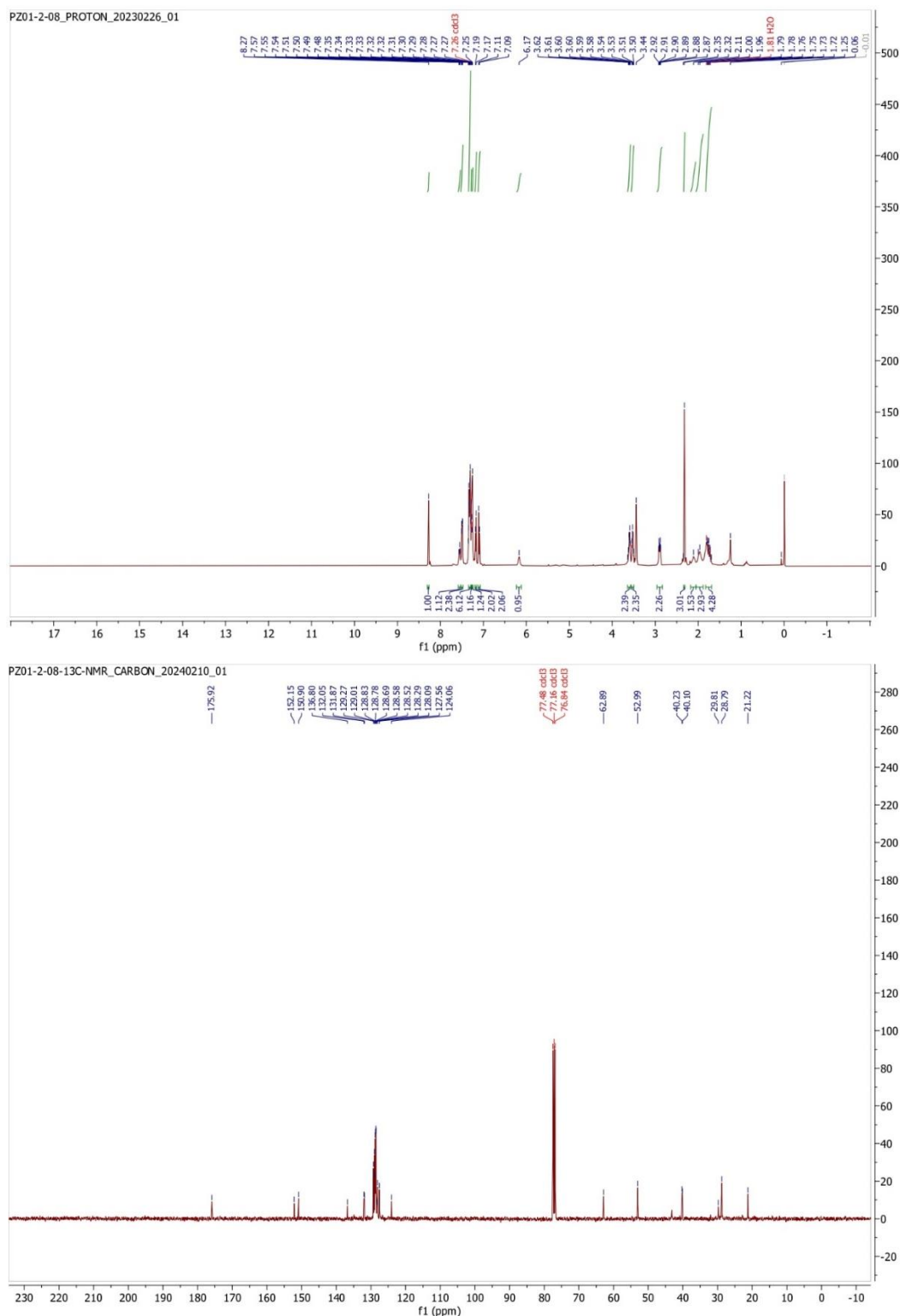
Sample Name	PZ01-2-07	Position	P1-F8	Instrument Name	Instrument 1	User Name	
Inj Vol	0.2	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	PZ01-2-07.d	ACQ Method	union.m	Comment		Acquired Time	10/7/2024 12:50:57 PM



1-(4-methylbenzyl)-N-(2-(3,4-diphenyl-1H-pyrazole-1-carboxamido)ethyl)piperidine-4-carboxamide  
(96)

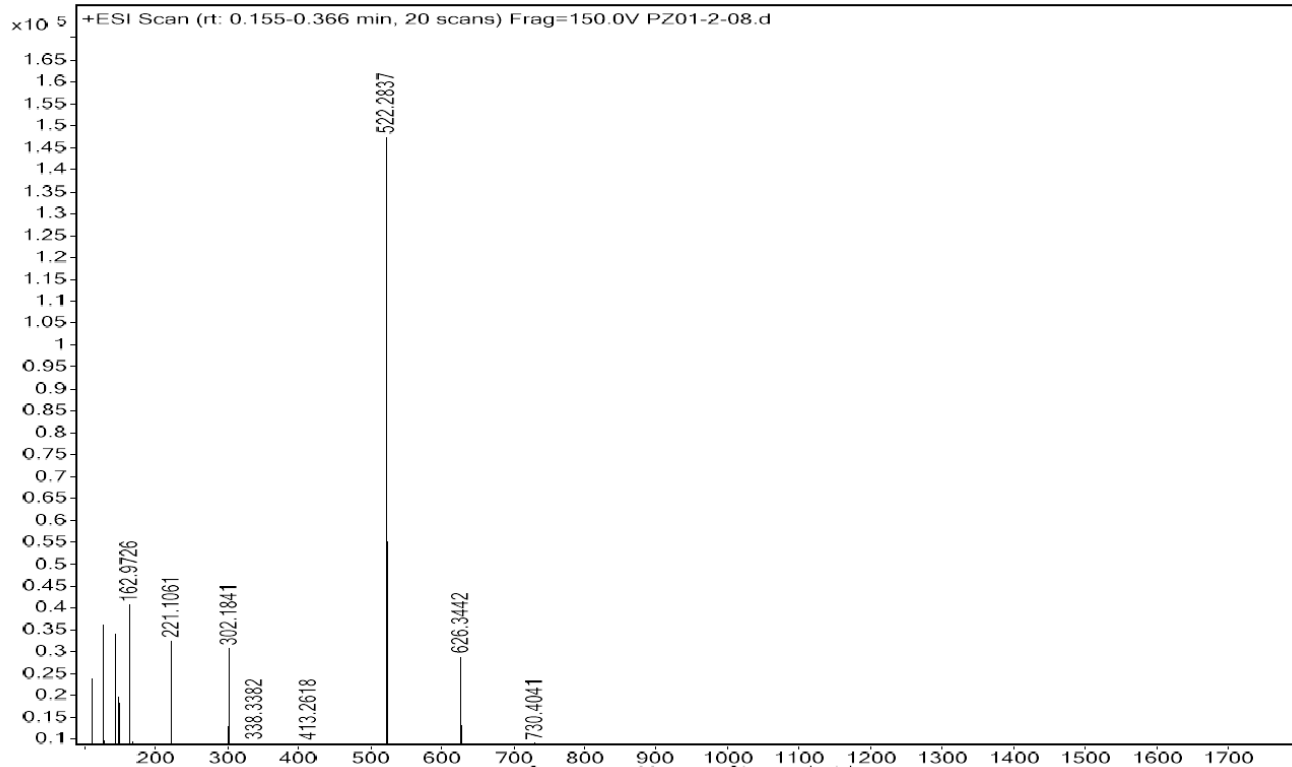


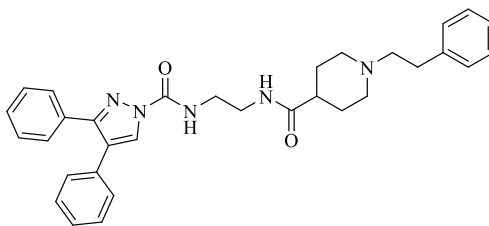
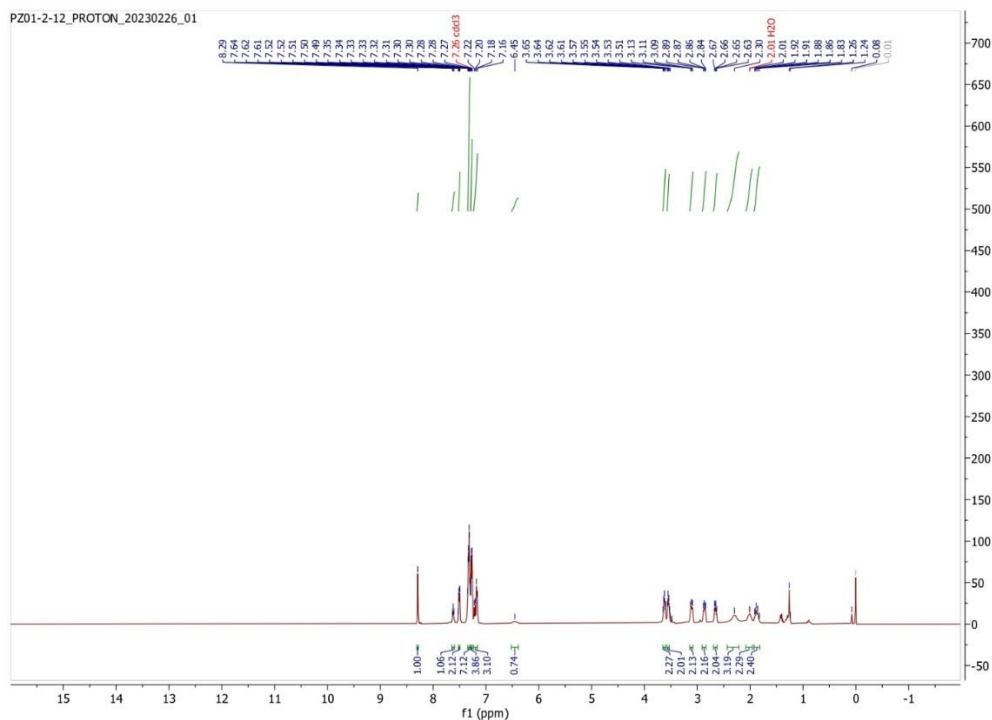
$^1\text{H}$  &  $^{13}\text{C}$  NMR spectra



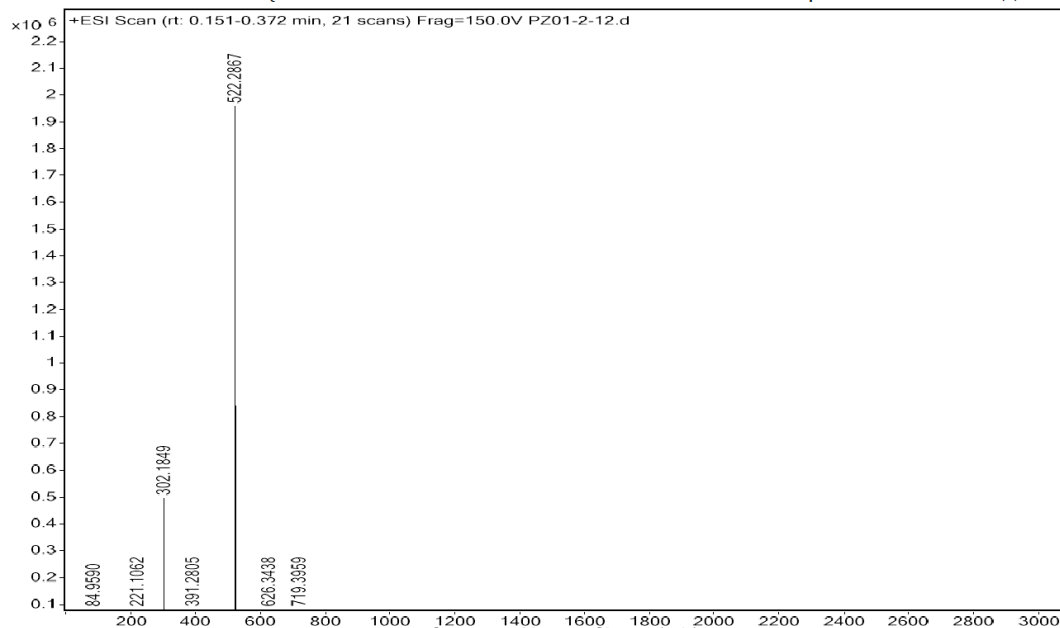
## HRMS spectra:

Sample Name	PZ01-2-08	Position	P1-F9	Instrument Name	Instrument 1	User Name	
Inj Vol	0.2	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	PZ01-2-08.d	ACQ Method	union.m	Comment		Acquired Time	10/7/2024 12:52:55 PM

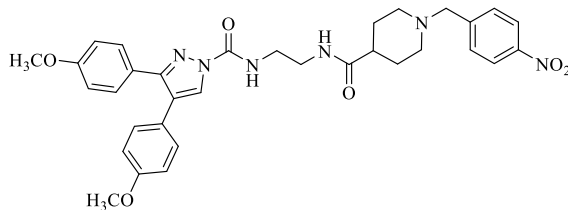


***N*-2-(3,4-diphenyl-1*H*-pyrazole-1-carboxamido)ethyl)-1-phenethyl piperidine-4-carboxamide (99)****<sup>1</sup>H NMR spectra****HRMS spectra:**

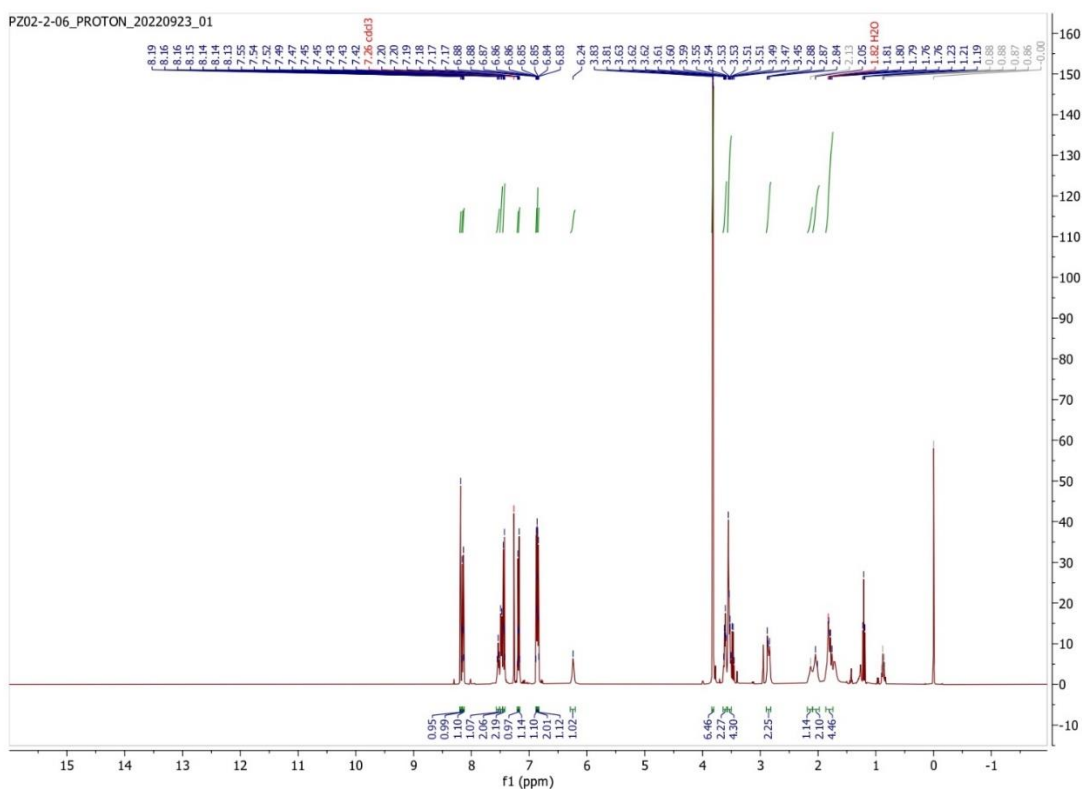
Sample Name	PZ01-2-12	Position	P2-A2	Instrument Name	Instrument 1	User Name	
Inj Vol	0.2	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	PZ01-2-12.d	ACQ Method	union.m	Comment		Acquired Time	10/7/2024 12:56:52 PM



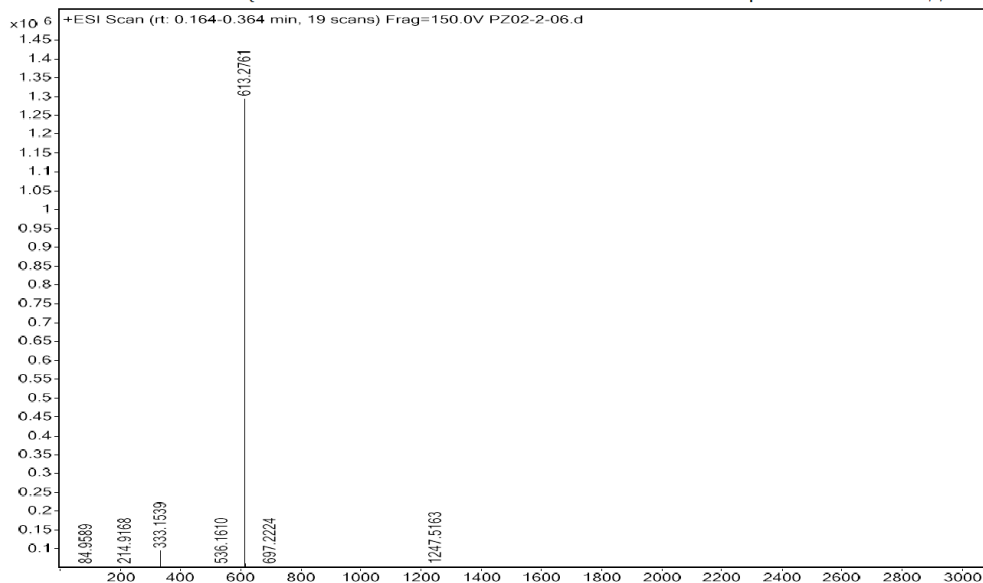
***N*-(2-(3,4-bis(4-methoxyphenyl)-1*H*-pyrazole-1-carboxamido)ethyl)-1-(4-nitrobenzyl)piperidine-4-carboxamide (105)**



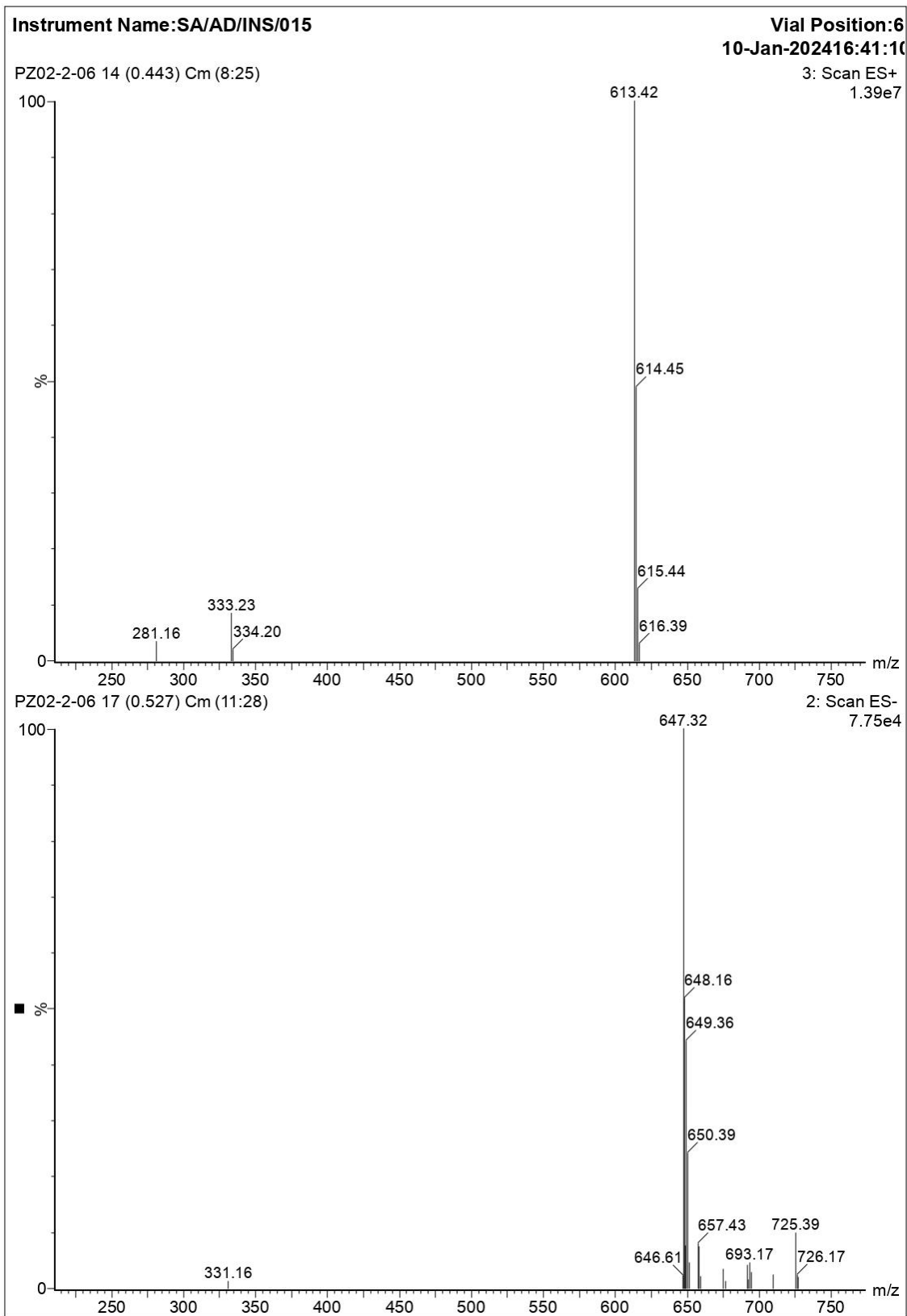
**<sup>1</sup>H NMR & HRMS spectra**



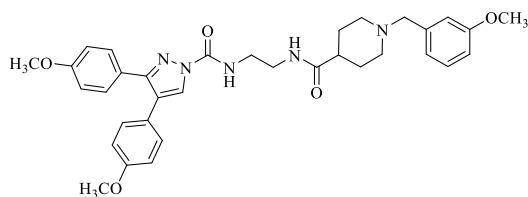
Sample Name	PZ02-2-06	Position	P2-A3	Instrument Name	Instrument 1	User Name	
Inj Vol	0.2	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	PZ02-2-06.d	ACQ Method	union.m	Comment		Acquired Time	10/7/2024 12:58:48 PM



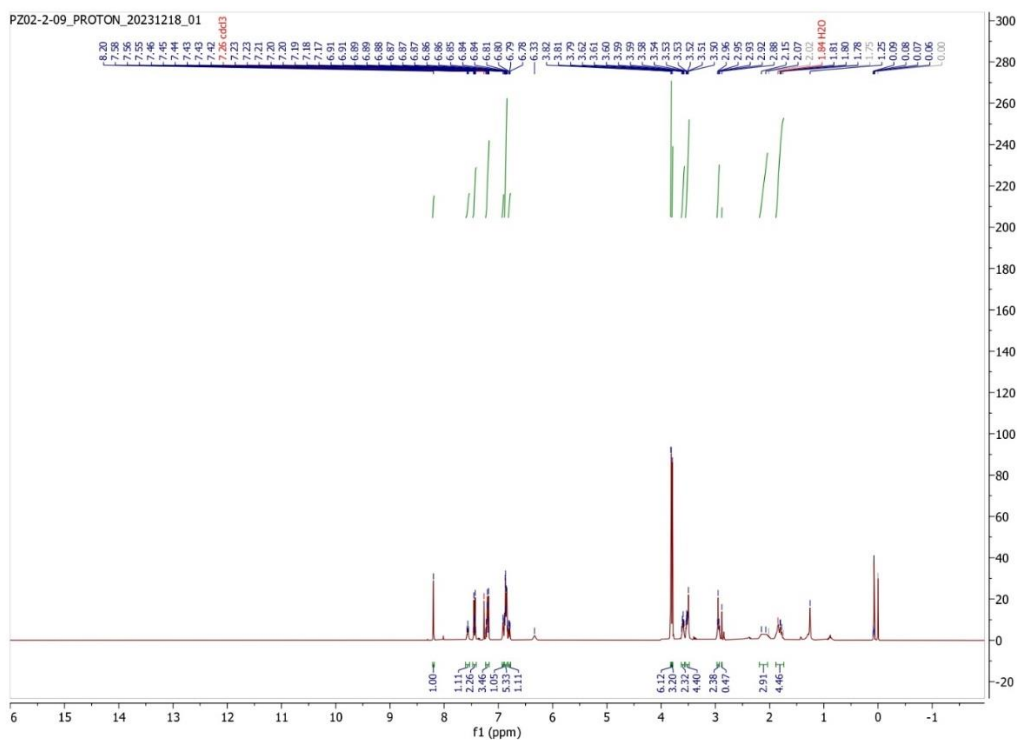
## Mass spectra:



***N*-(2-(3,4-bis(4-methoxyphenyl)-1*H*-pyrazole-1-carboxamido)ethyl)-1-(4-methoxybenzyl)piperidine-4-carboxamide (108)**

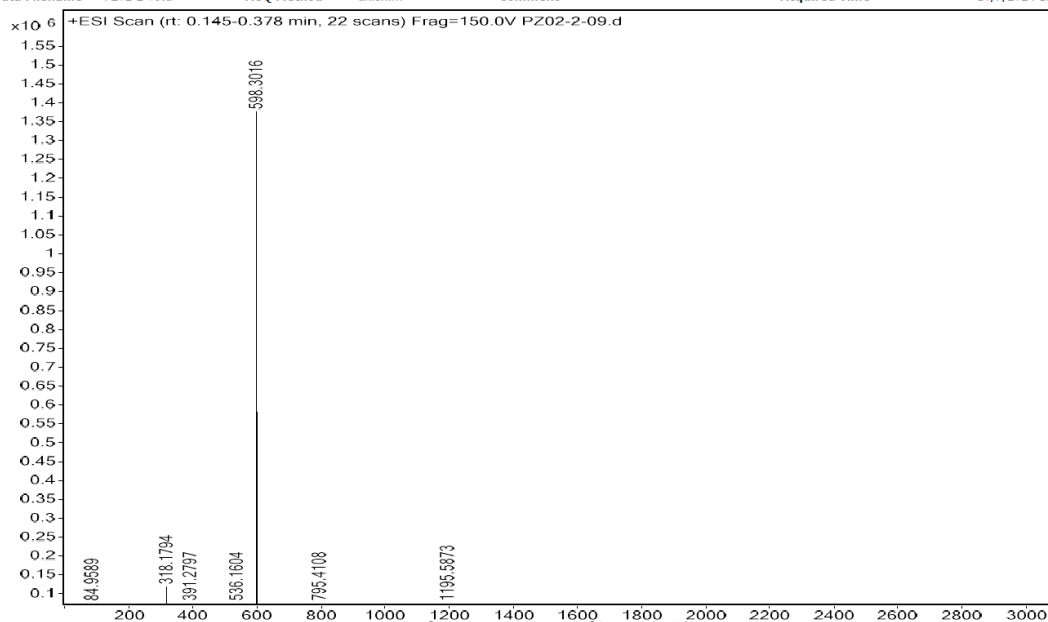


**<sup>1</sup>H NMR spectra**

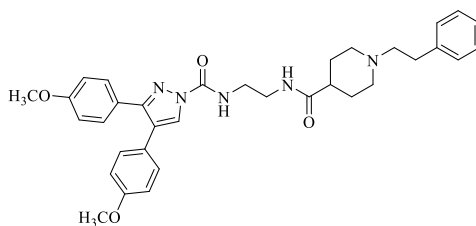


**HRMS spectra:**

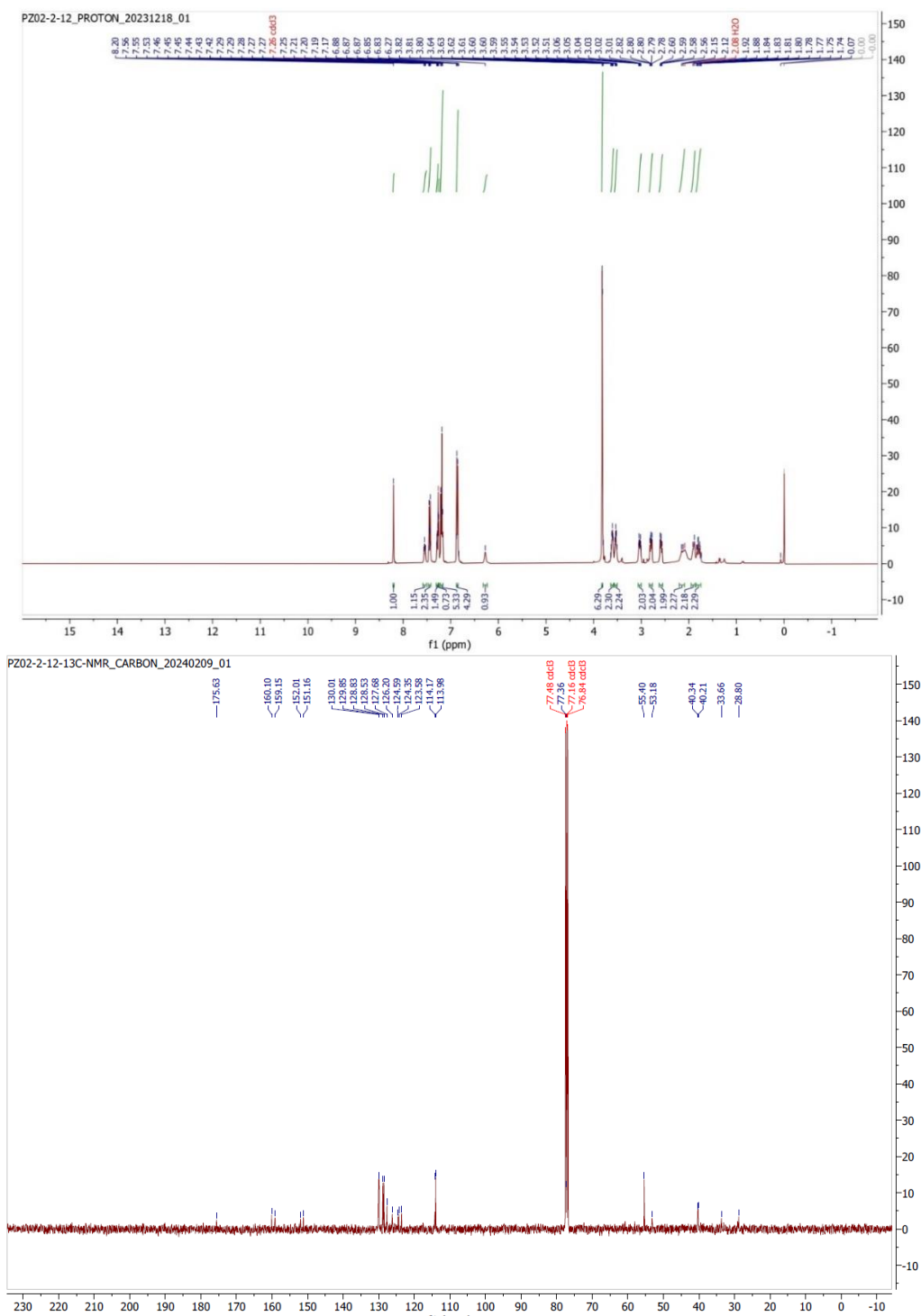
Sample Name	PZ02-2-09	Position	P2-A6	Instrument Name	Instrument 1	User Name	
Inj Vol	0.2	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	PZ02-2-09.d	ACQ Method	union.m	Comment		Acquired Time	10/7/2024 1:04:40 PM



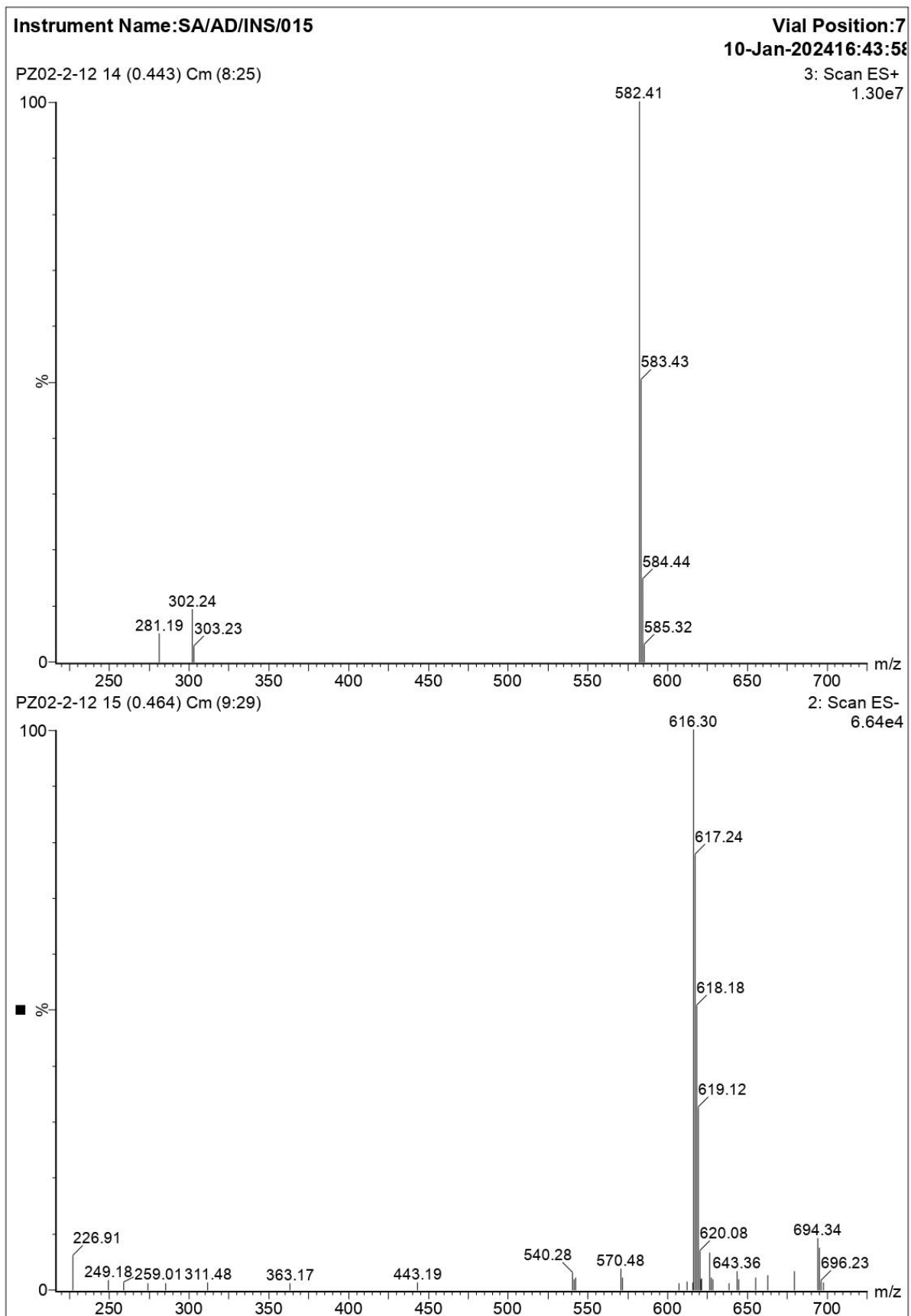
***N*-2-(3,4-bis(4-methoxyphenyl)-1*H*-pyrazole-1-carboxamido)ethyl)-1-phenethylpiperidine-4-carboxamide (111)**

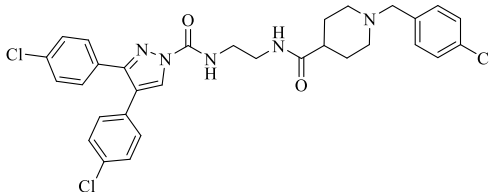
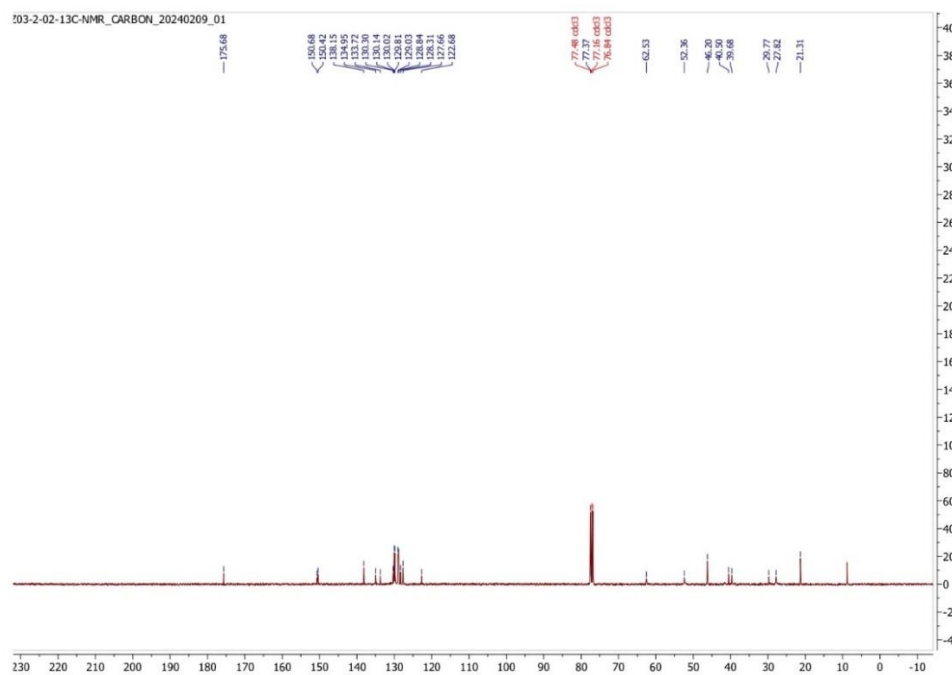
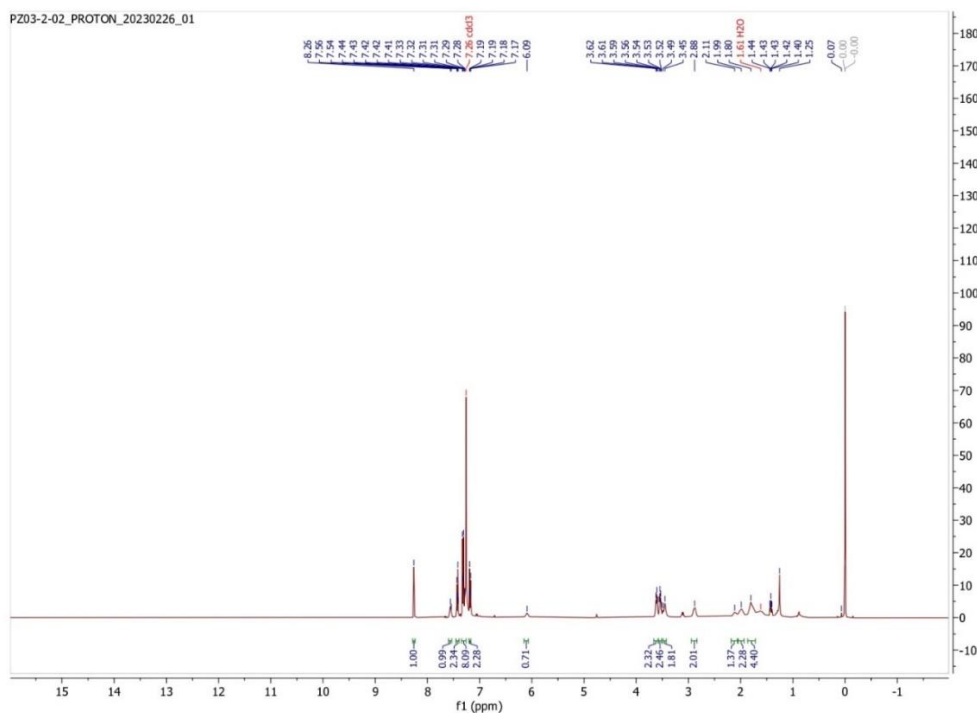


**<sup>1</sup>H & <sup>13</sup>C NMR**



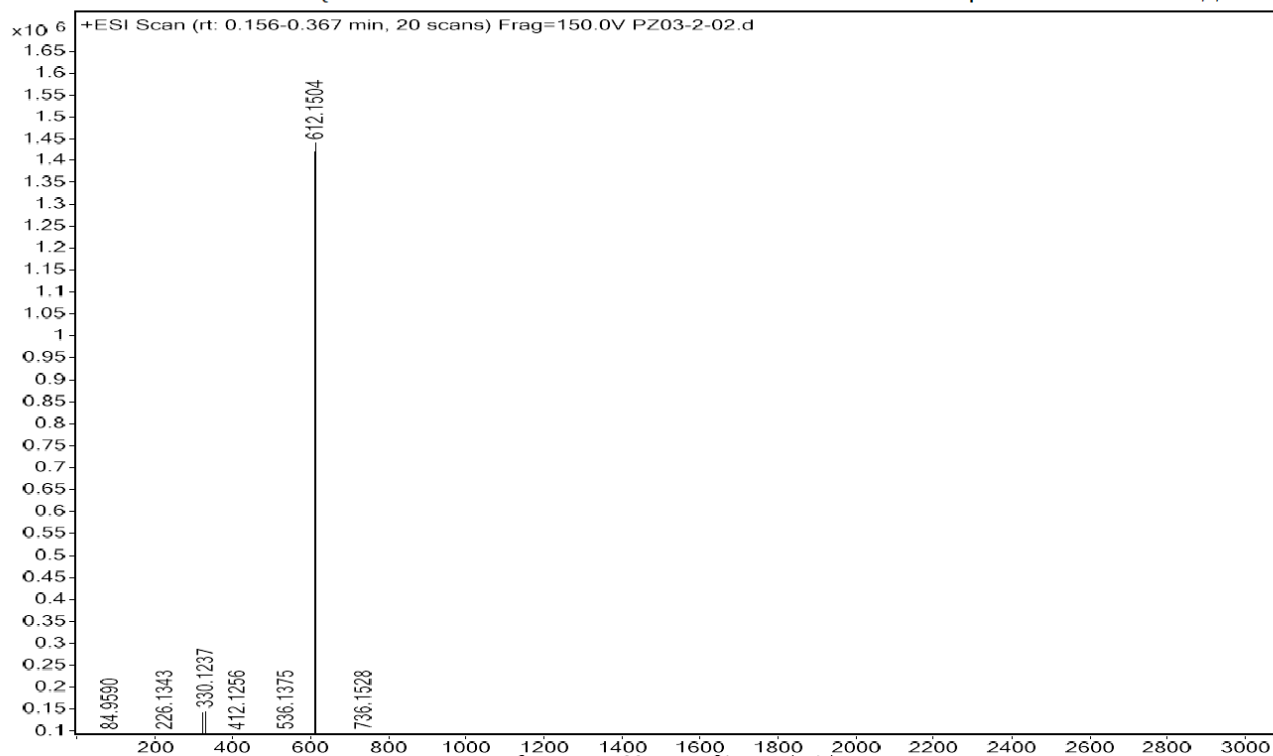
## Mass spectra:

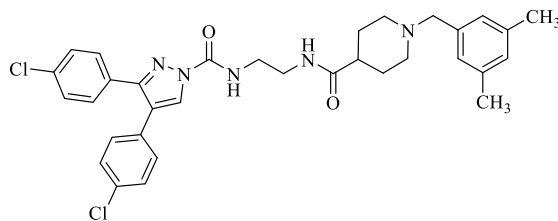
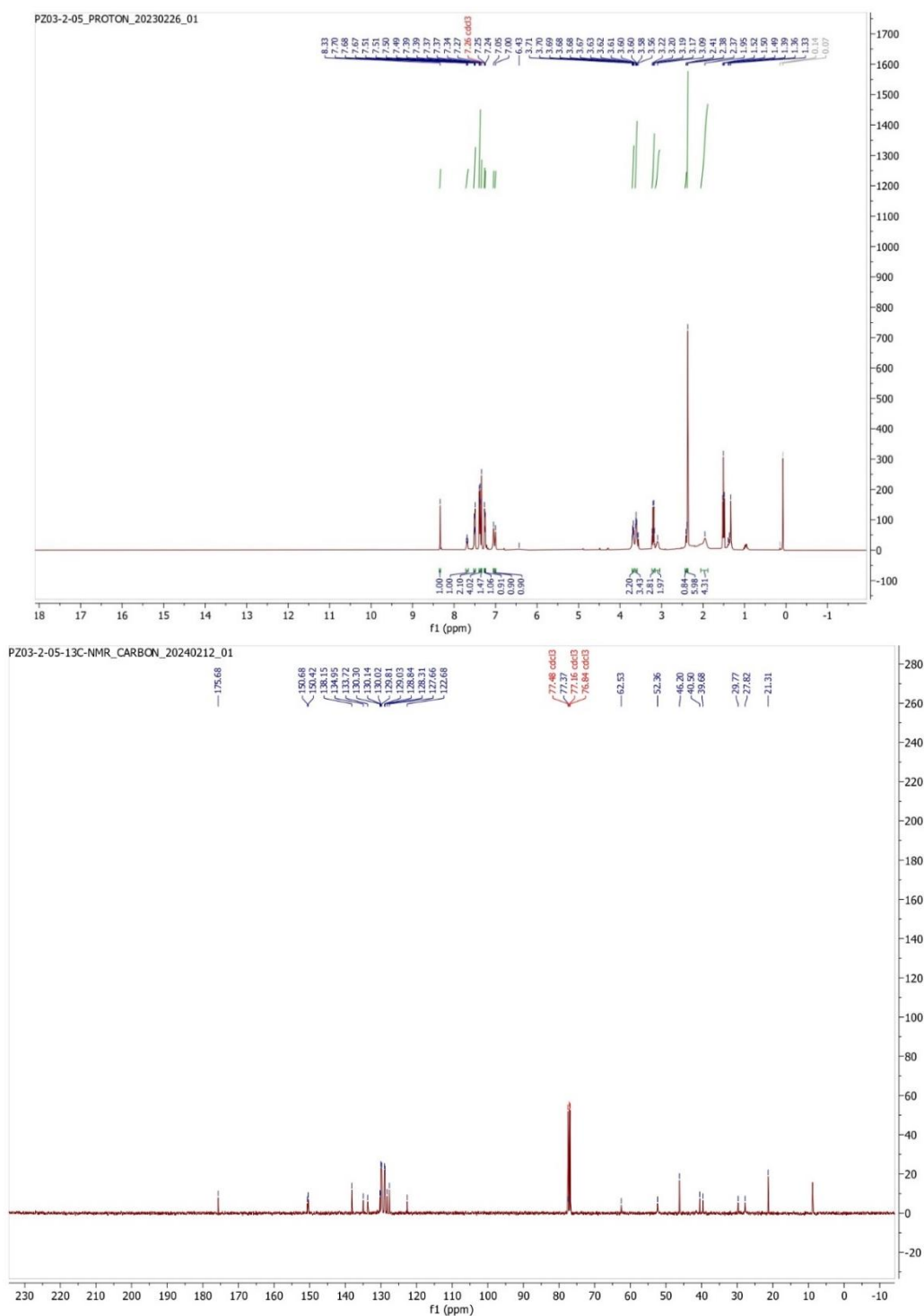


***N*-2-(3,4-bis(4-chlorophenyl)-1*H*-pyrazole-1-carboxamido)ethyl)-1-(4-chlorobenzyl)piperidine-4-carboxamide (113)****<sup>1</sup>H NMR spectra**

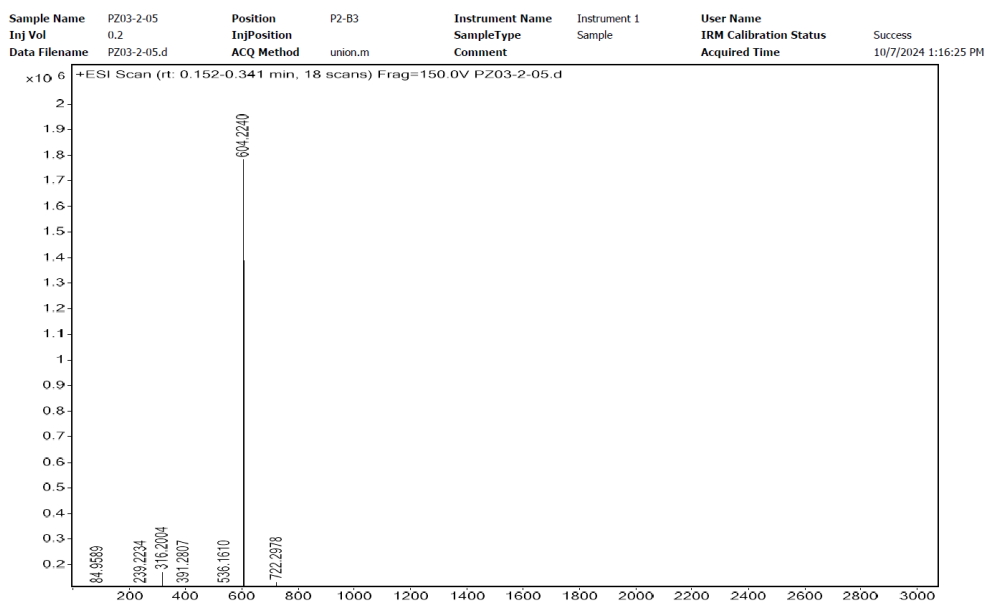
## HRMS spectra:

Sample Name	PZ03-2-02	Position	P2-B1	Instrument Name	Instrument 1	User Name	
Inj Vol	0.2	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	PZ03-2-02.d	ACQ Method	union.m	Comment		Acquired Time	10/7/2024 1:12:31 PM

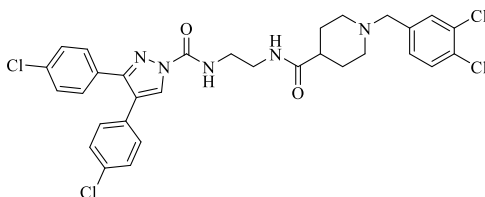
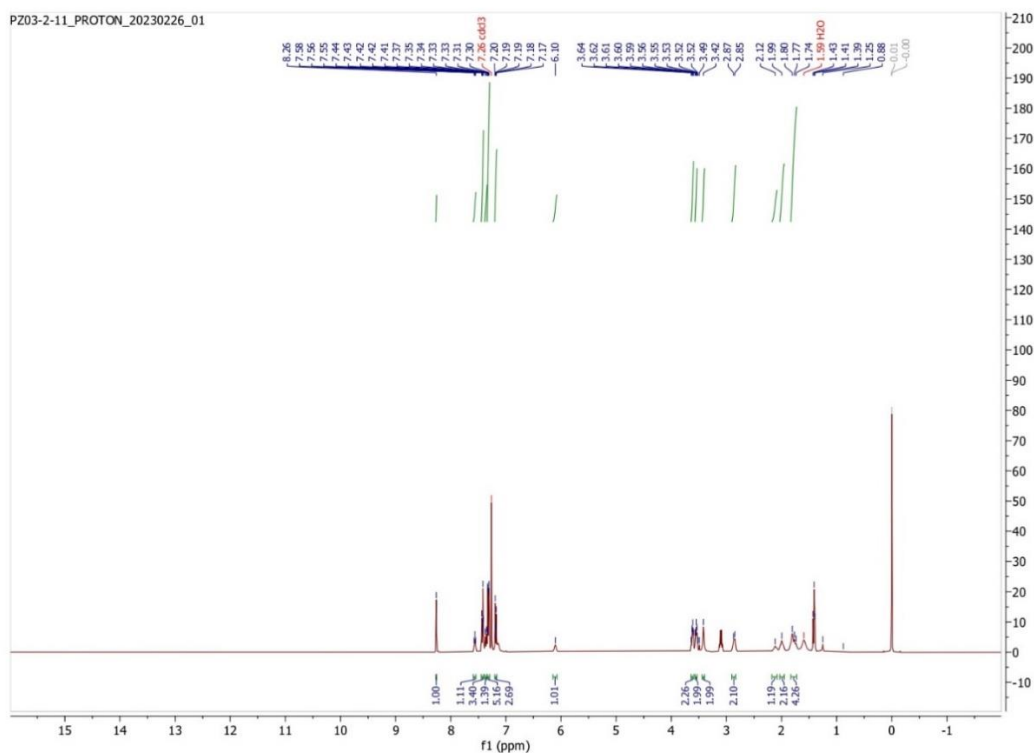


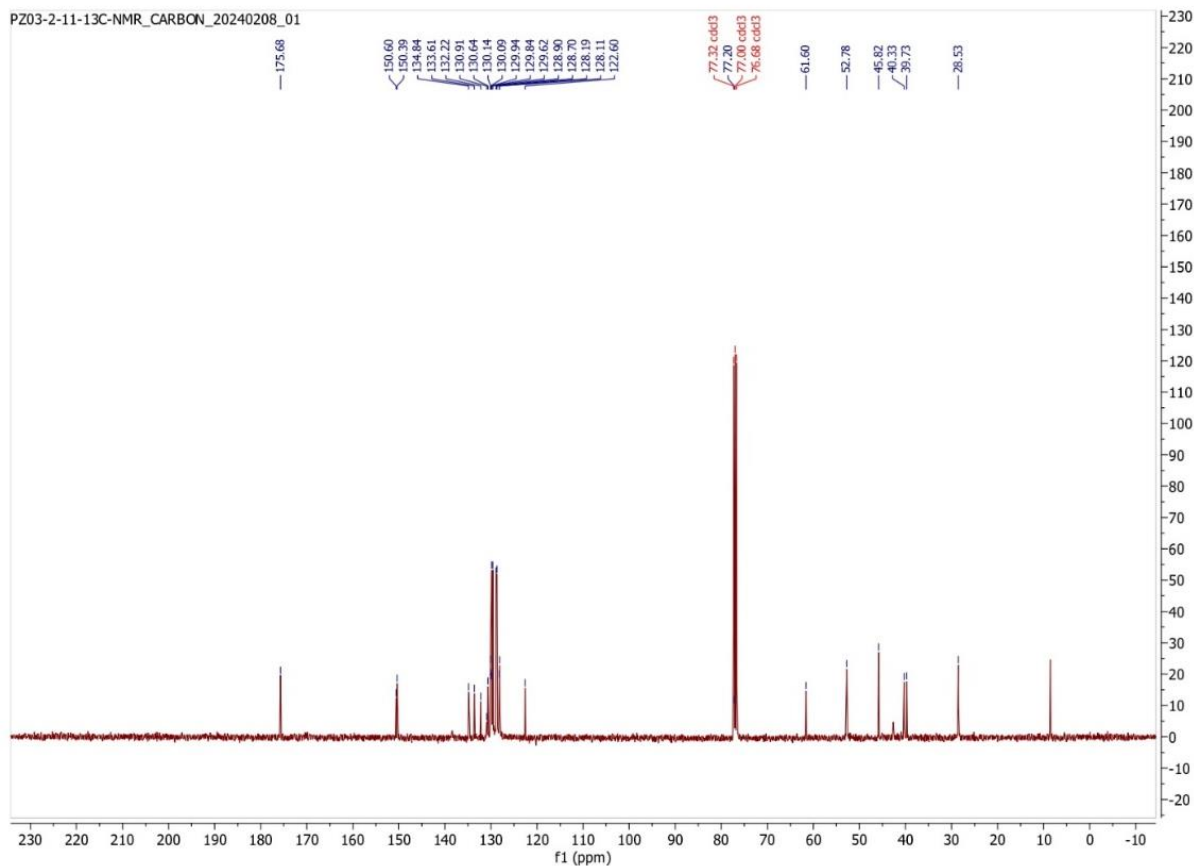
***N*-2-(3,4-bis(4-chlorophenyl)-1*H*-pyrazole-1-carboxamido)ethyl)-1-(3,5-dimethylbenzyl)piperidine-4-carboxamide (115)****<sup>1</sup>H NMR spectra**

## HRMS spectra:



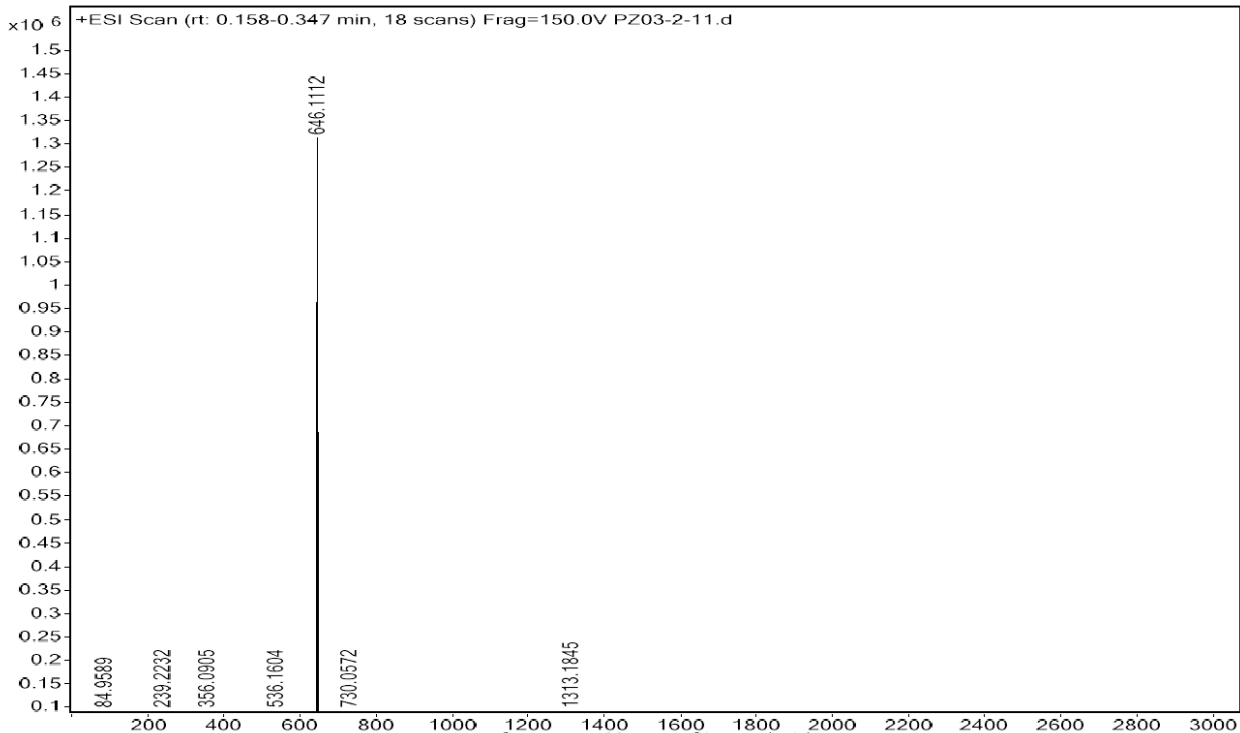
*N*-(2-(3,4-bis(4-chlorophenyl)-1*H*-pyrazole-1-carboxamido)ethyl)-1-(3,4-dichlorobenzyl)piperidine-4-carboxamide (121)

<sup>1</sup>H & <sup>13</sup>C NMR spectra

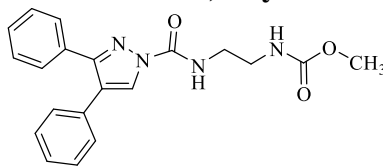
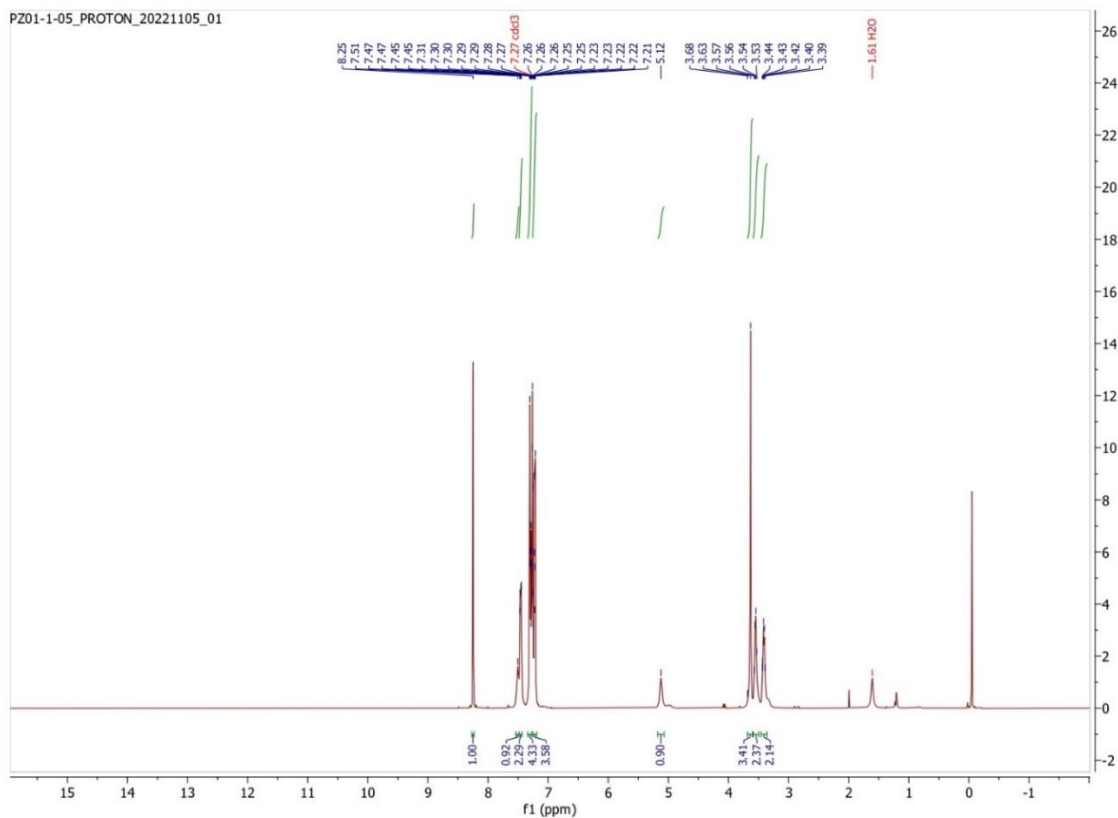


HRMS spectra:

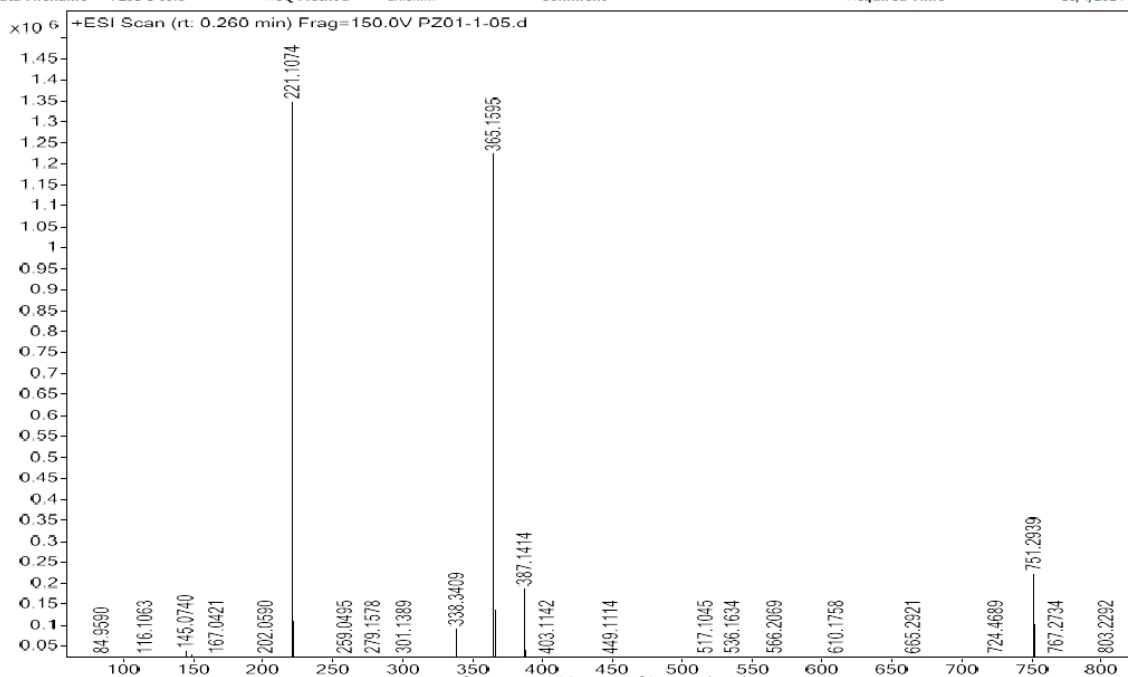
Sample Name	PZ03-2-11	Position	P2-B5	Instrument Name	Instrument 1	User Name	
Inj Vol	0.2	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	PZ03-2-11.d	ACQ Method	union.m	Comment		Acquired Time	10/7/2024 1:20:19 PM



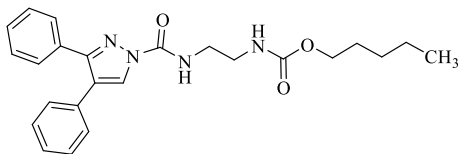
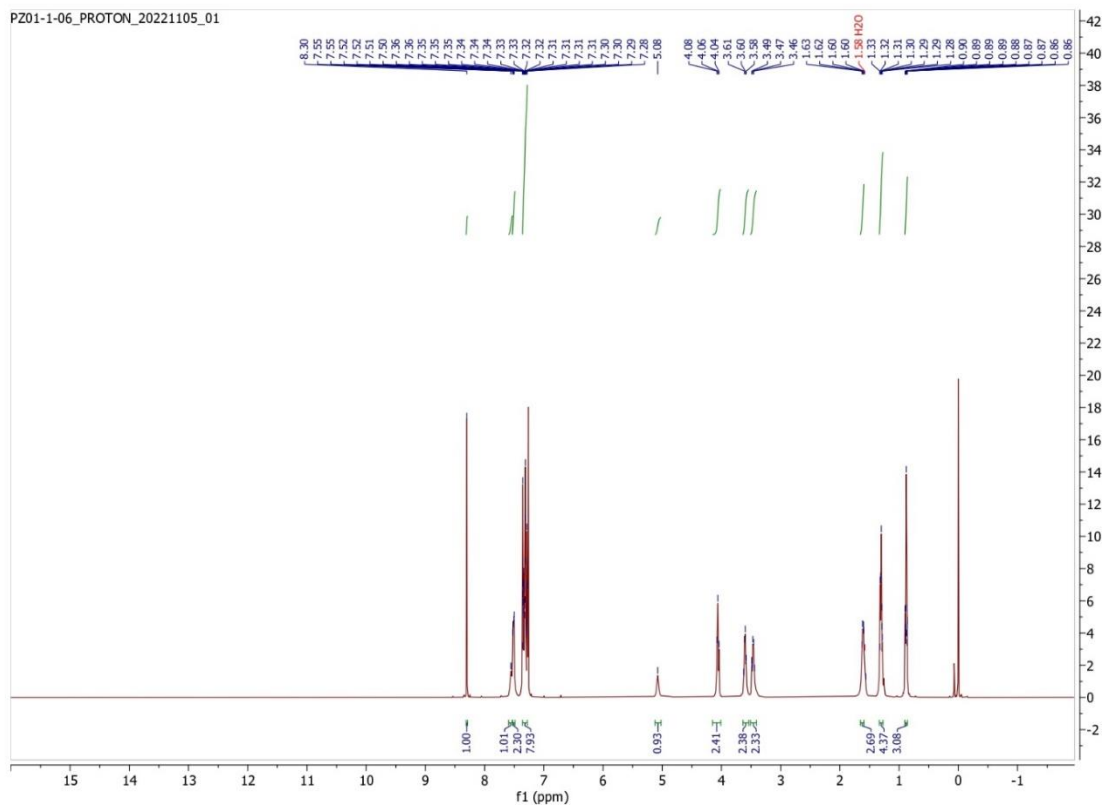
## Methyl 2-(3,4-diphenyl-1H-pyrazole-1-carboxamido)ethylcarbamate (133)

<sup>1</sup>H & HRMS NMR spectra

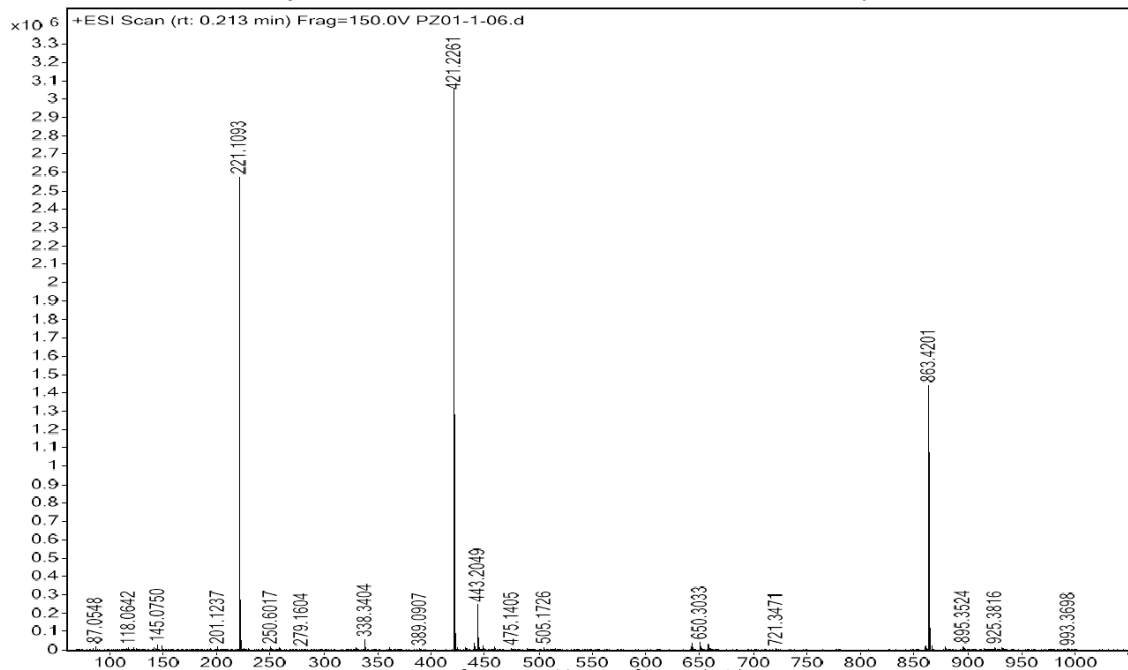
Sample Name	PZ01-1-05	Position	P1-C3	Instrument Name	Instrument 1	User Name	
Inj Vol	0.2	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	PZ01-1-05.d	ACQ Method	union.m	Comment		Acquired Time	10/4/2024 1:34:05 PM



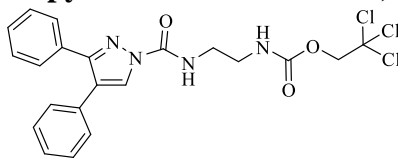
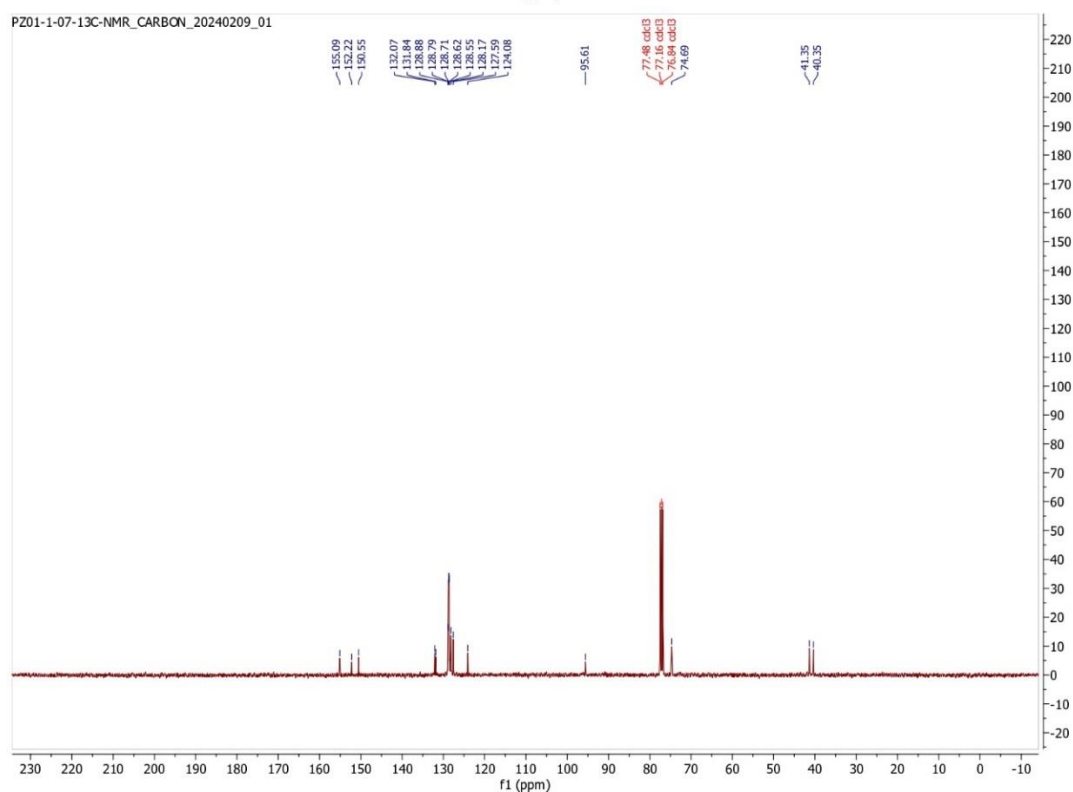
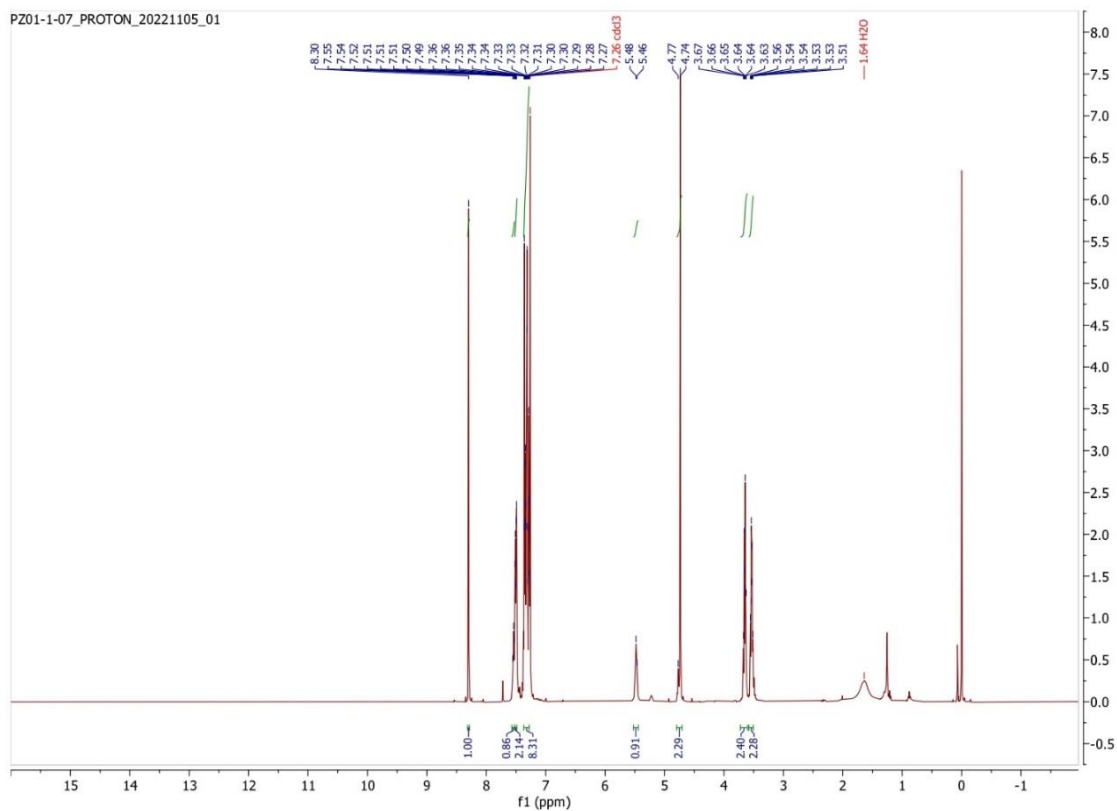
## Pentyl 2-(3,4-diphenyl-1H-pyrazole-1-carboxamido)ethylcarbamate (134)

<sup>1</sup>H NMR & HRMS spectra

Sample Name	PZ01-1-06	Position	P1-C4	Instrument Name	Instrument 1	User Name	IRM Calibration Status	Success
Inj Vol	0.2	InjPosition		SampleType	Sample	Acquired Time		10/4/2024 1:36:03 PM
Data Filename	PZ01-1-06.d	ACQ Method	union.m	Comment				

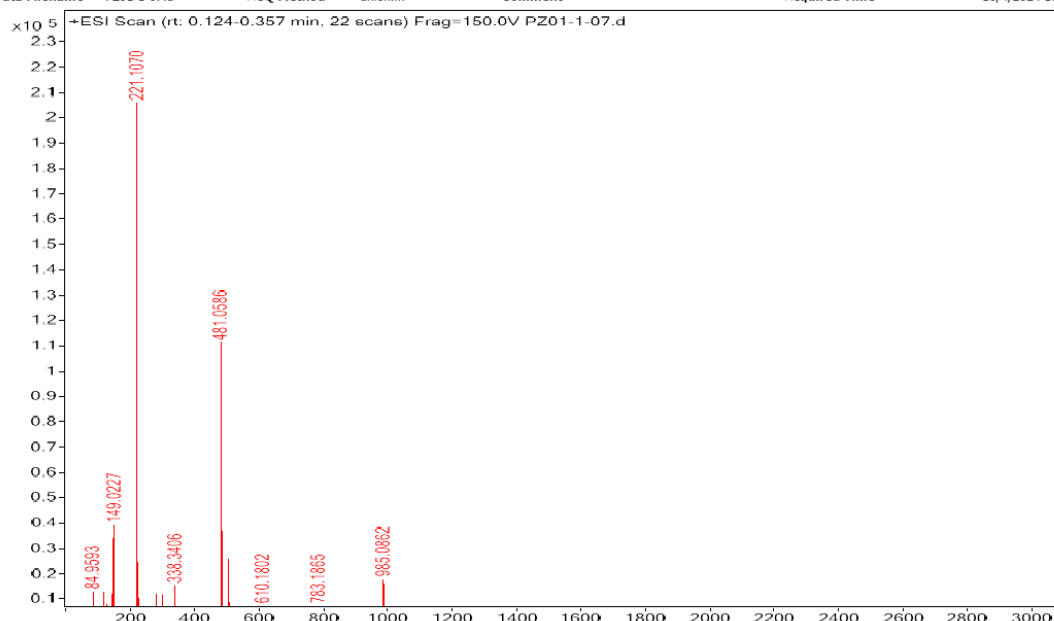


## 2,2,2-trichloroethyl 2-(3,4-diphenyl-1H-pyrazole-1-carboxamido) ethylcarbamate (135)

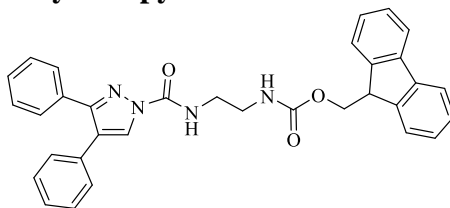
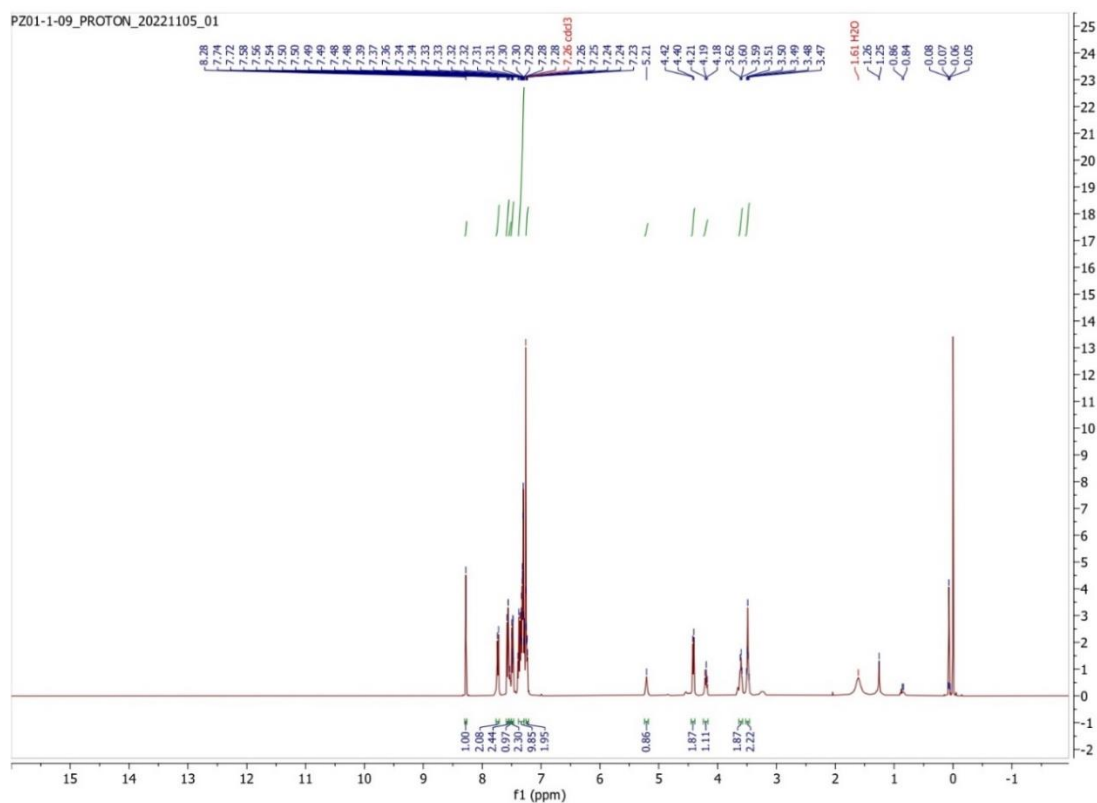
 $^1\text{H}$  &  $^{13}\text{C}$  NMR spectra

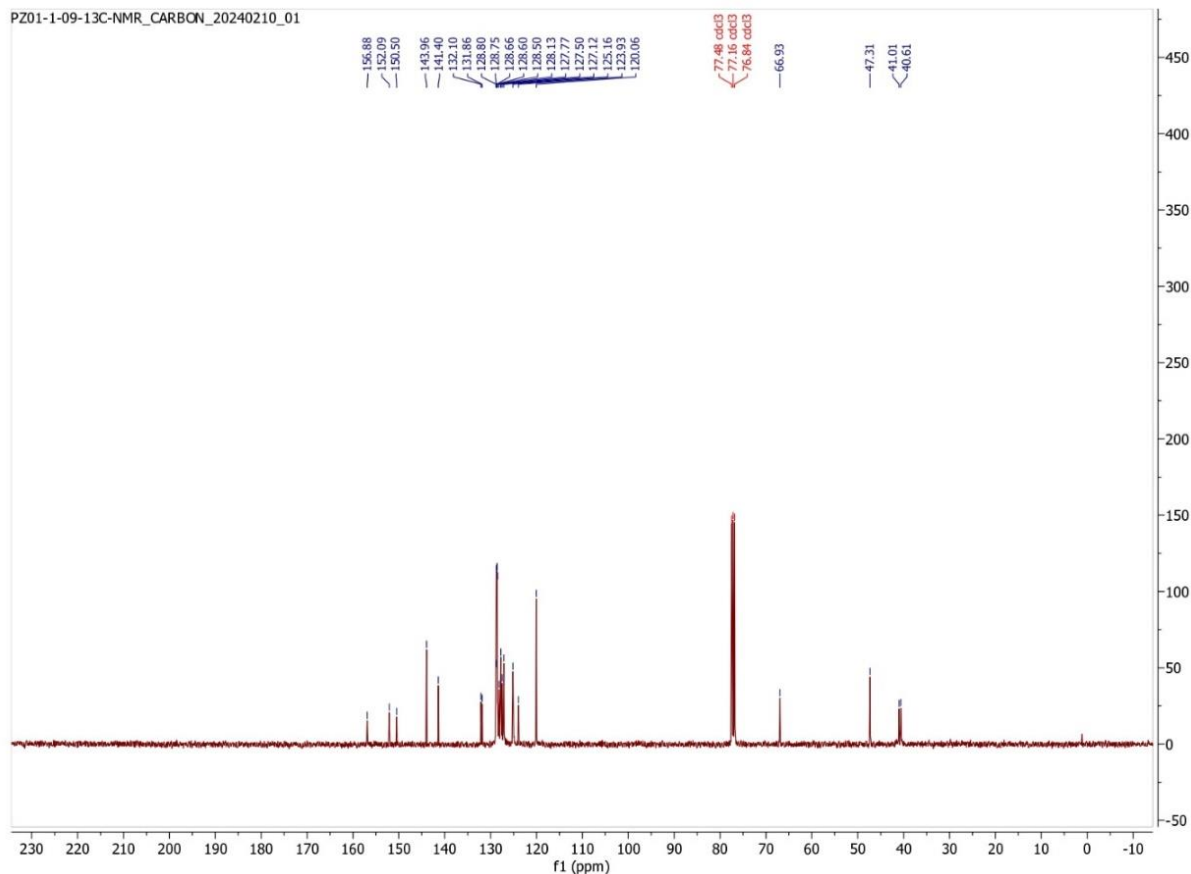
## HRMS spectra:

Sample Name	PZ01-1-07	Position	P1-C5	Instrument Name	Instrument 1	User Name	
Inj Vol	0.2	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	PZ01-1-07.d	ACQ Method	union.m	Comment		Acquired Time	10/4/2024 1:38:00 PM



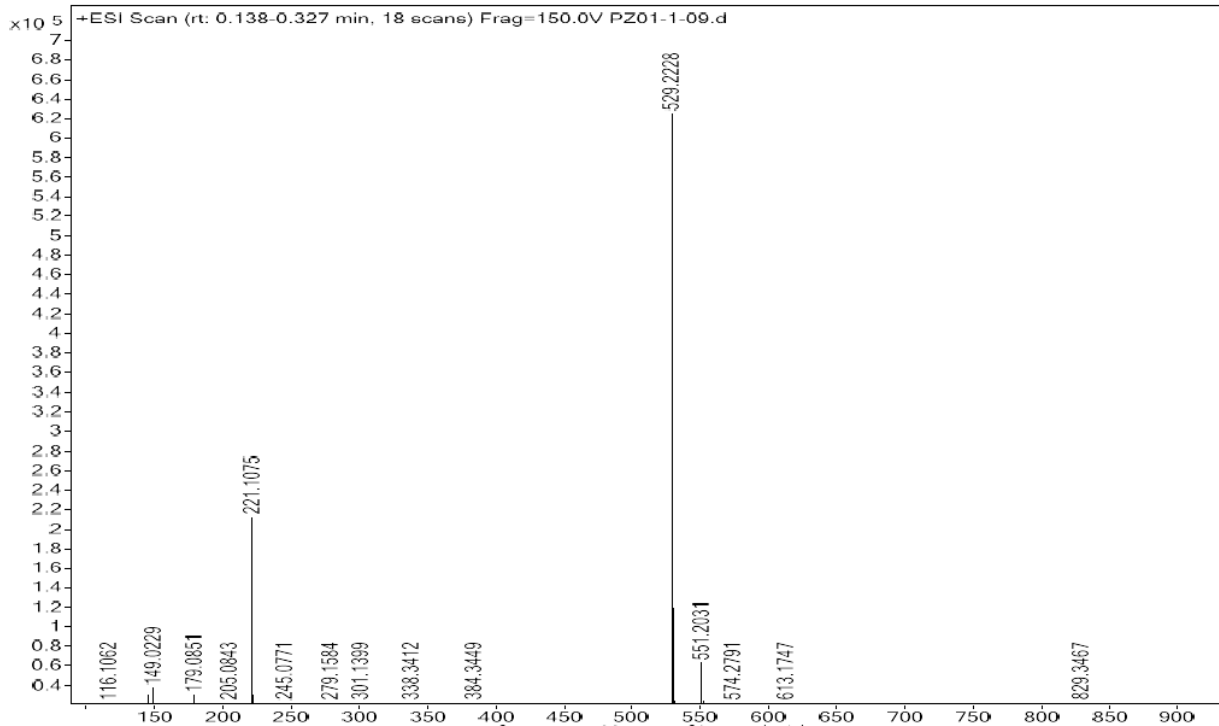
## (9H-fluoren-9-yl)methyl 2-(3,4-diphenyl-1H-pyrazole-1-carboxamido) ethylcarbamate (137)

<sup>1</sup>H & <sup>13</sup>C NMR spectra

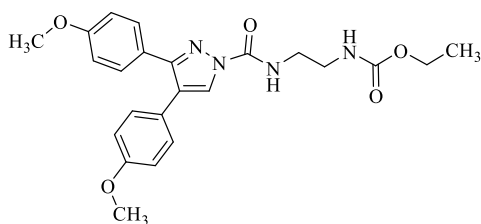
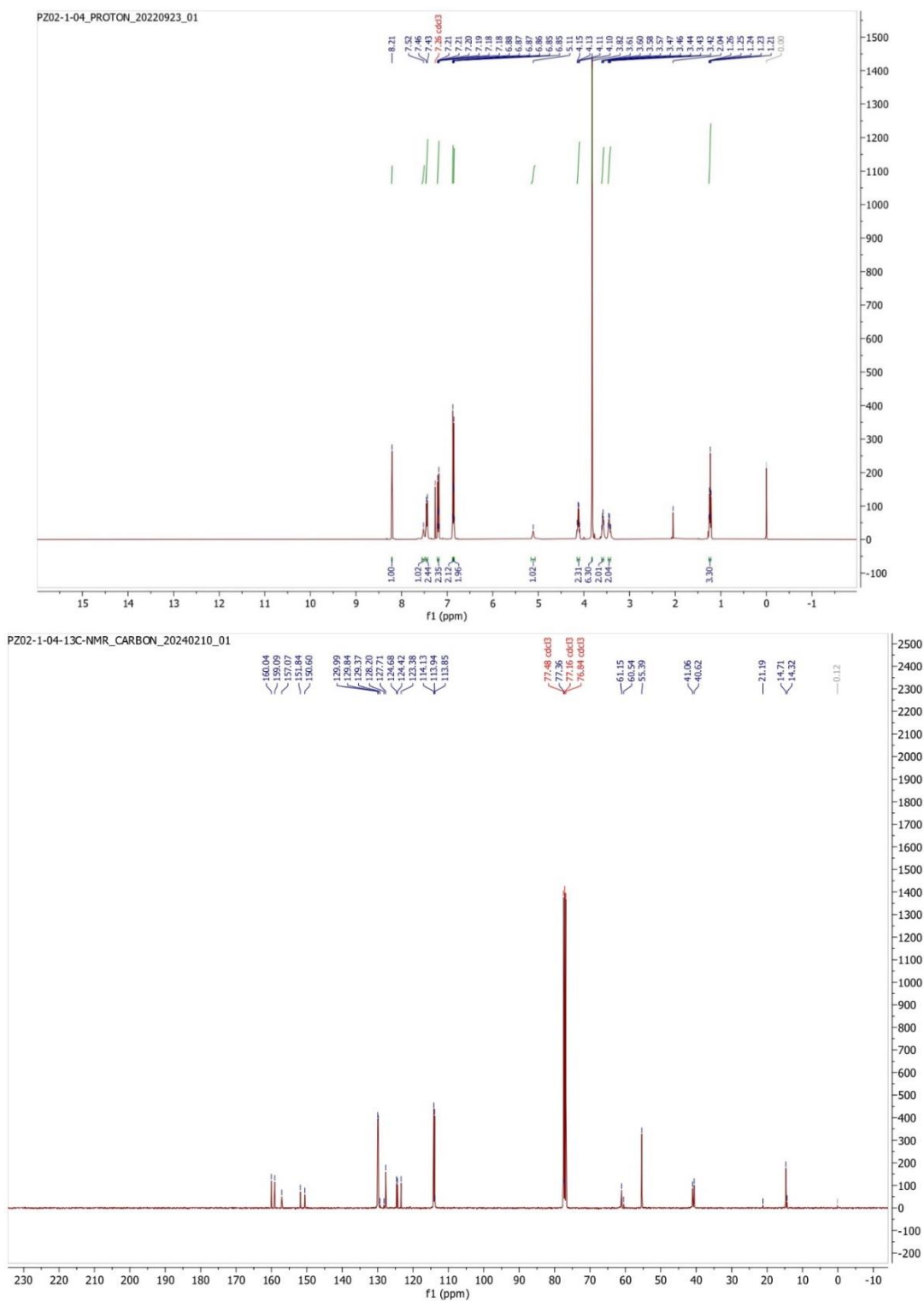


HRMS spectra:

Sample Name	PZ01-1-09	Position	P1-C7	Instrument Name	Instrument 1	User Name	
Inj Vol	0.2	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	PZ01-1-09.d	ACQ Method	union.m	Comment		Acquired Time	10/4/2024 1:41:55 PM

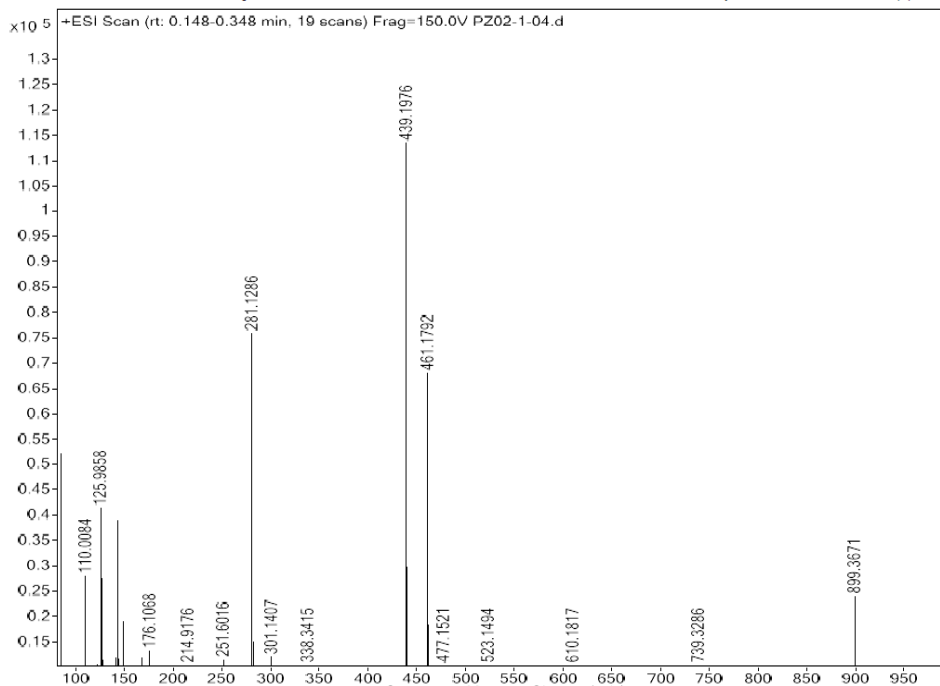


## Ethyl 2-(3,4-bis(4-methoxyphenyl)-1H-pyrazole-1-carboxamido) ethylcarbamate (140)

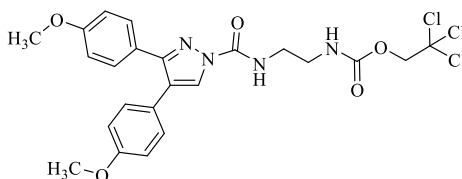
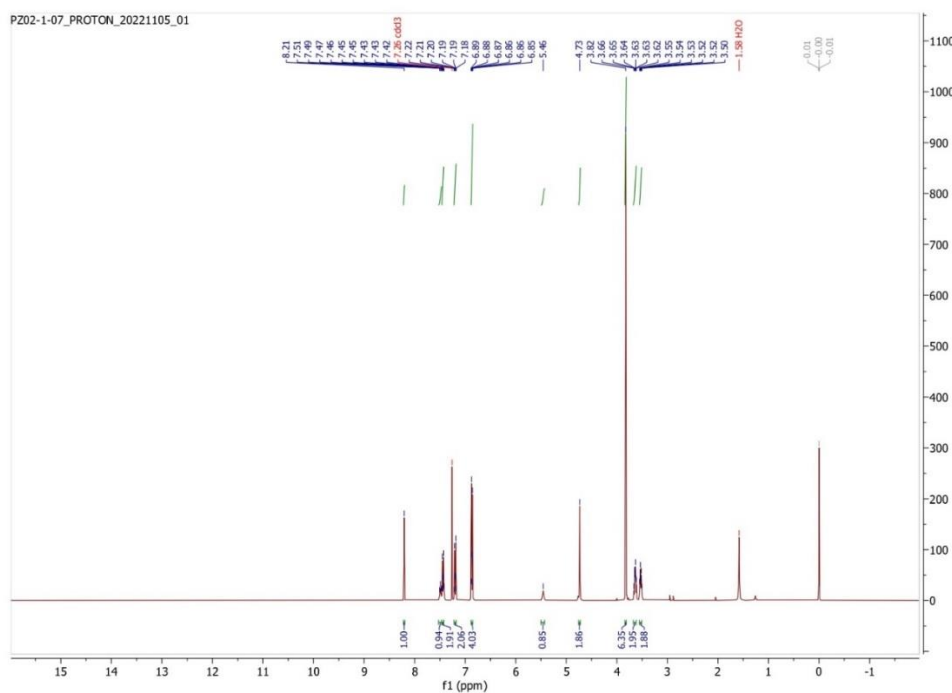
 $^1\text{H}$  &  $^{13}\text{C}$  NMR spectra

## HRMS spectra:

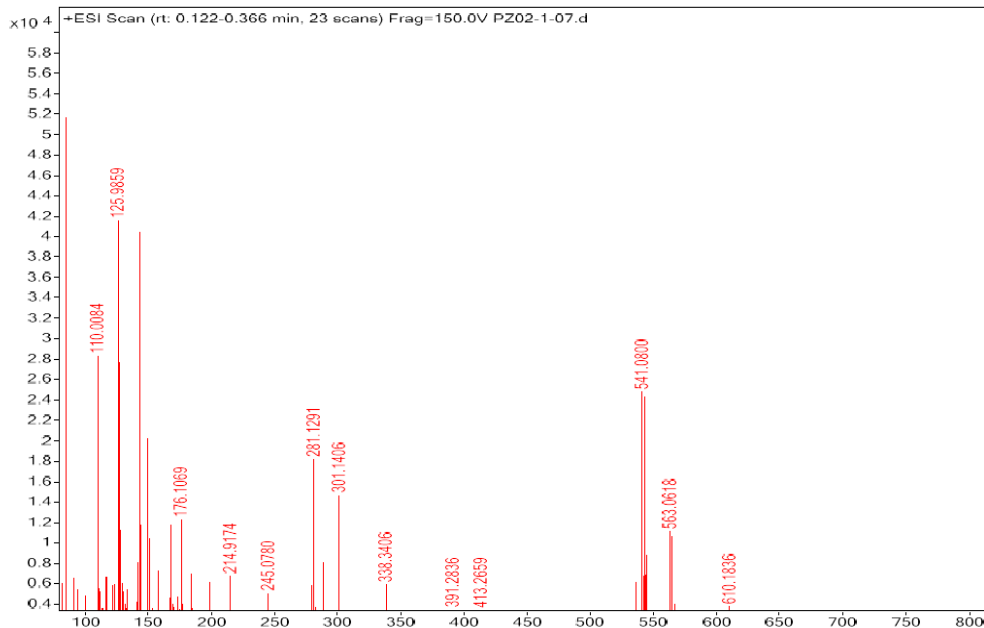
Sample Name	PZ02-1-04	Position	P1-E7	Instrument Name	Instrument 1	User Name	
Inj Vol	0.2	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	PZ02-1-04.d	ACQ Method	union.m	Comment		Acquired Time	10/7/2024 12:31



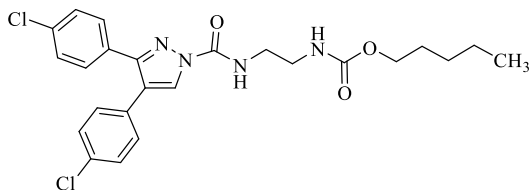
## 2,2,2-trichloroethyl 2-(3,4-bis(4-methoxyphenyl)-1H-pyrazole-1-carboxamido)ethylcarbamate (143)

<sup>1</sup>H NMR spectra

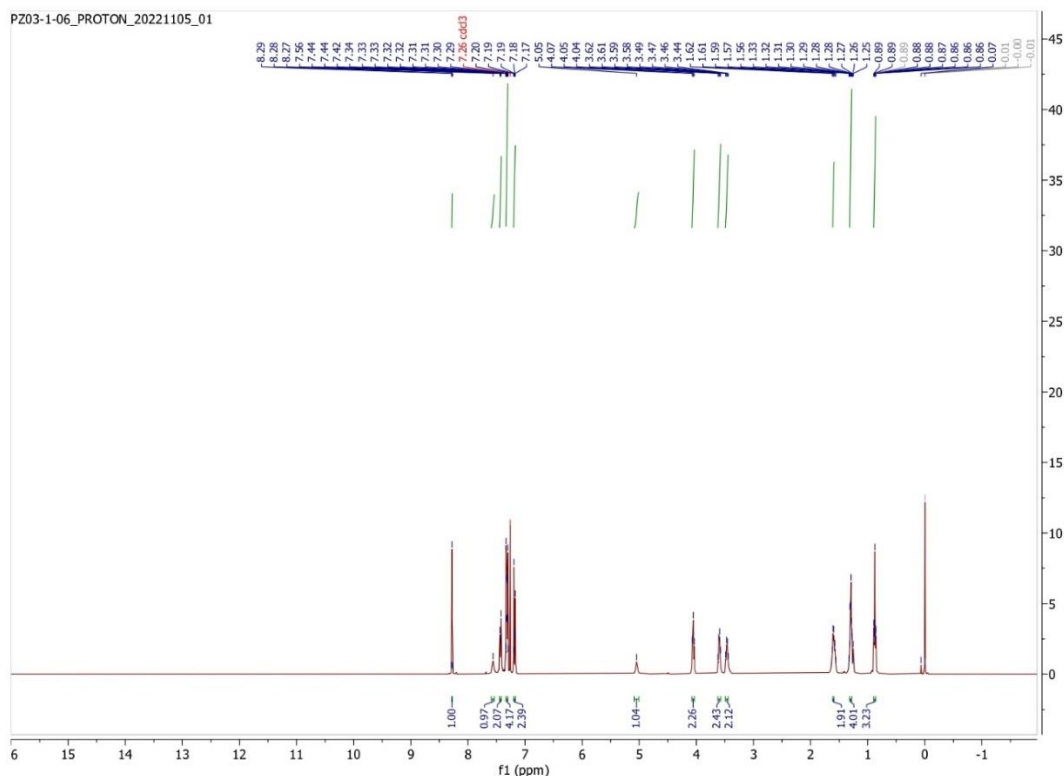
Sample Name	PZ02-1-07	Position	P1-E9	Instrument Name	Instrument 1	User Name	
Inj Vol	0.2	Inj Position		Sample Type	Sample	IRM Calibration Status	Success
Data Filename	PZ02-1-07.d	ACQ Method	union.m	Comment		Acquired Time	10/7/2024 12:35:18 PM

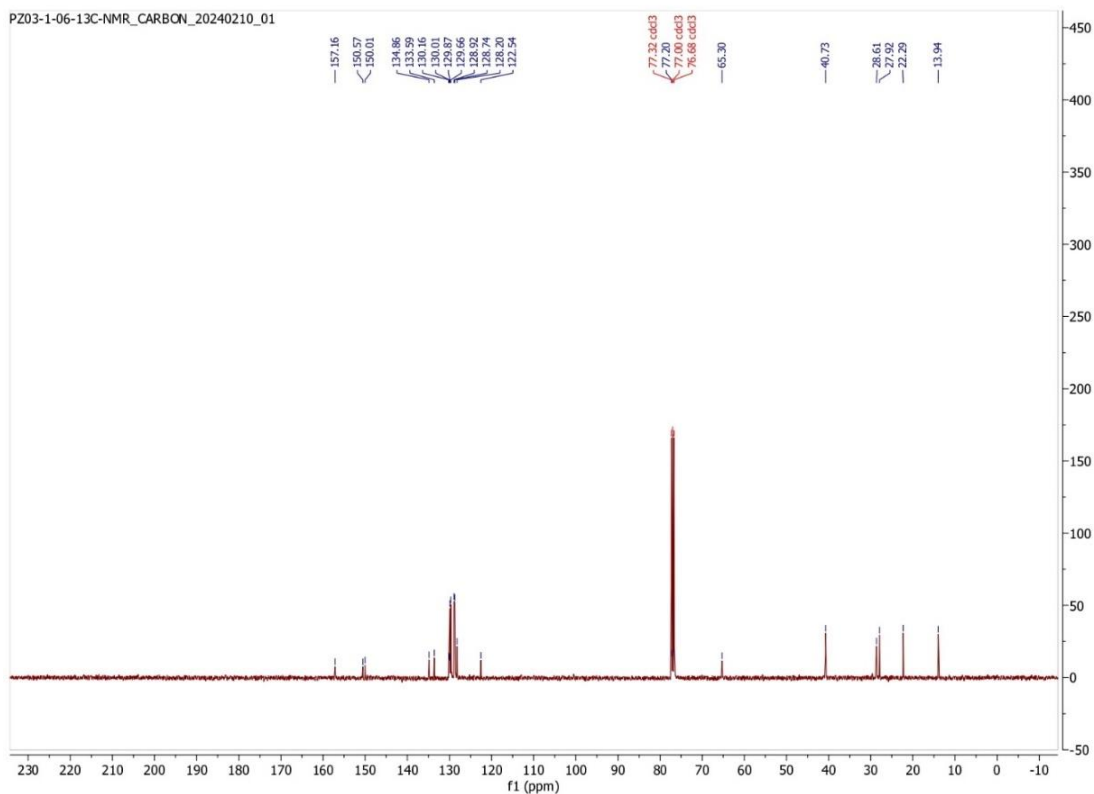


### Pentyl 2-(3,4-bis(4-chlorophenyl)-1*H*-pyrazole-1-carboxamido) ethylcarbamate (150)



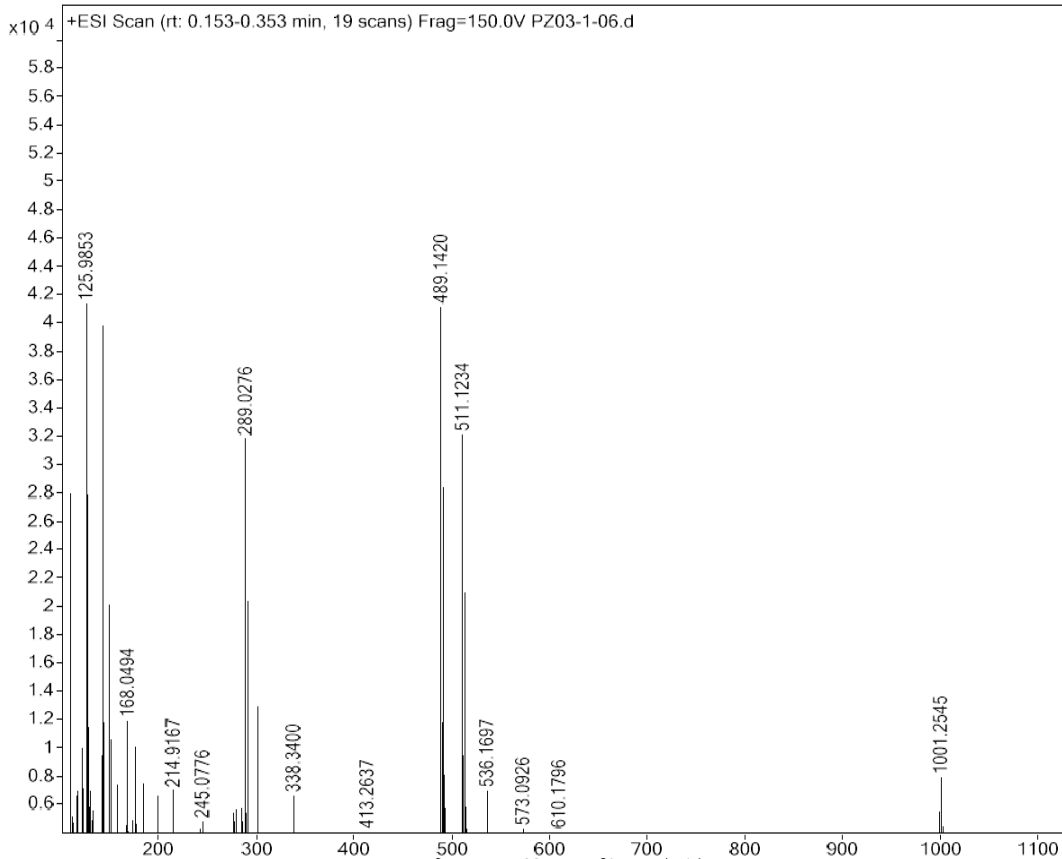
### <sup>1</sup>H & <sup>13</sup>C NMR spectra



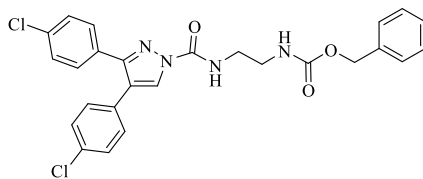
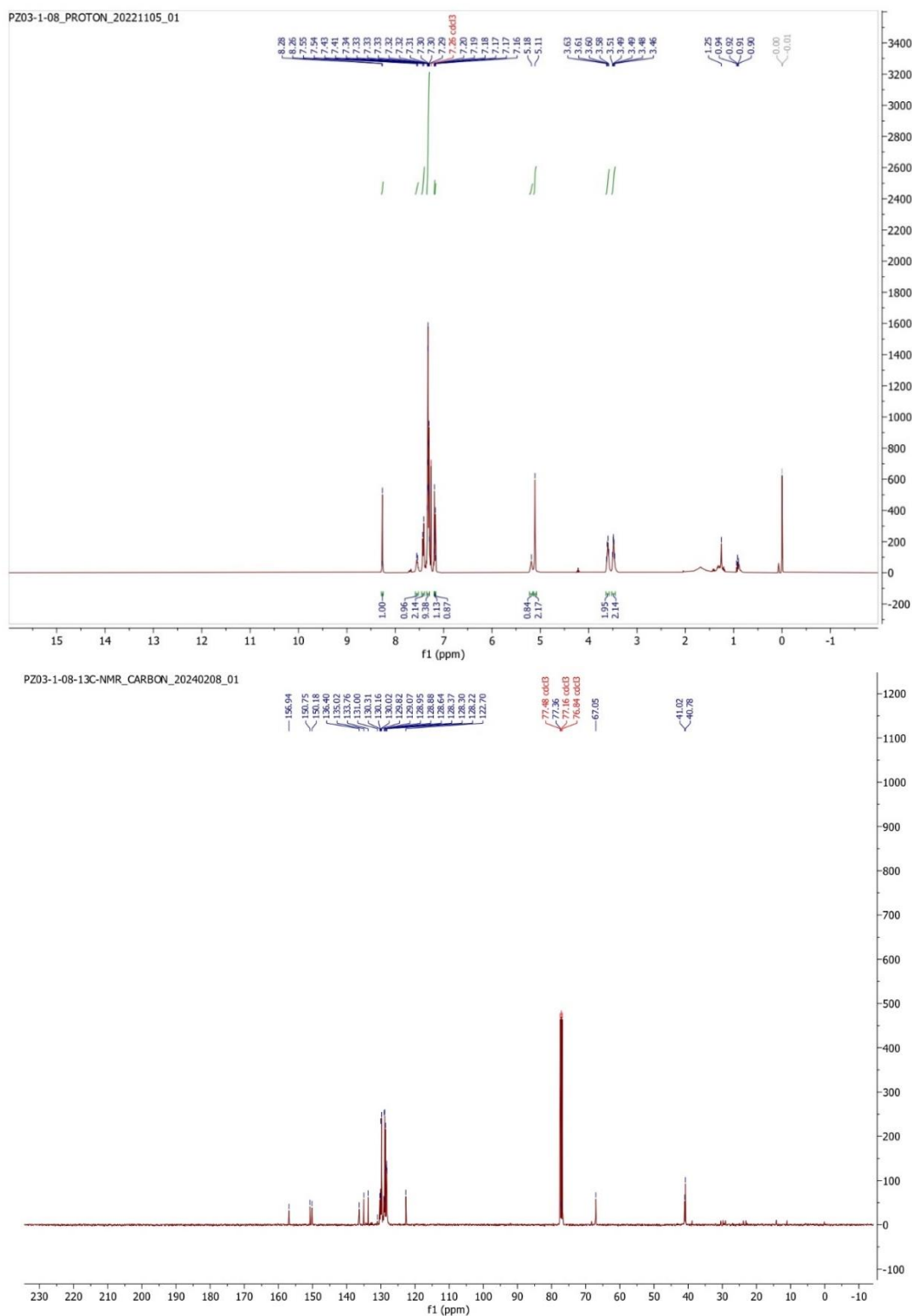


### HRMS spectra:

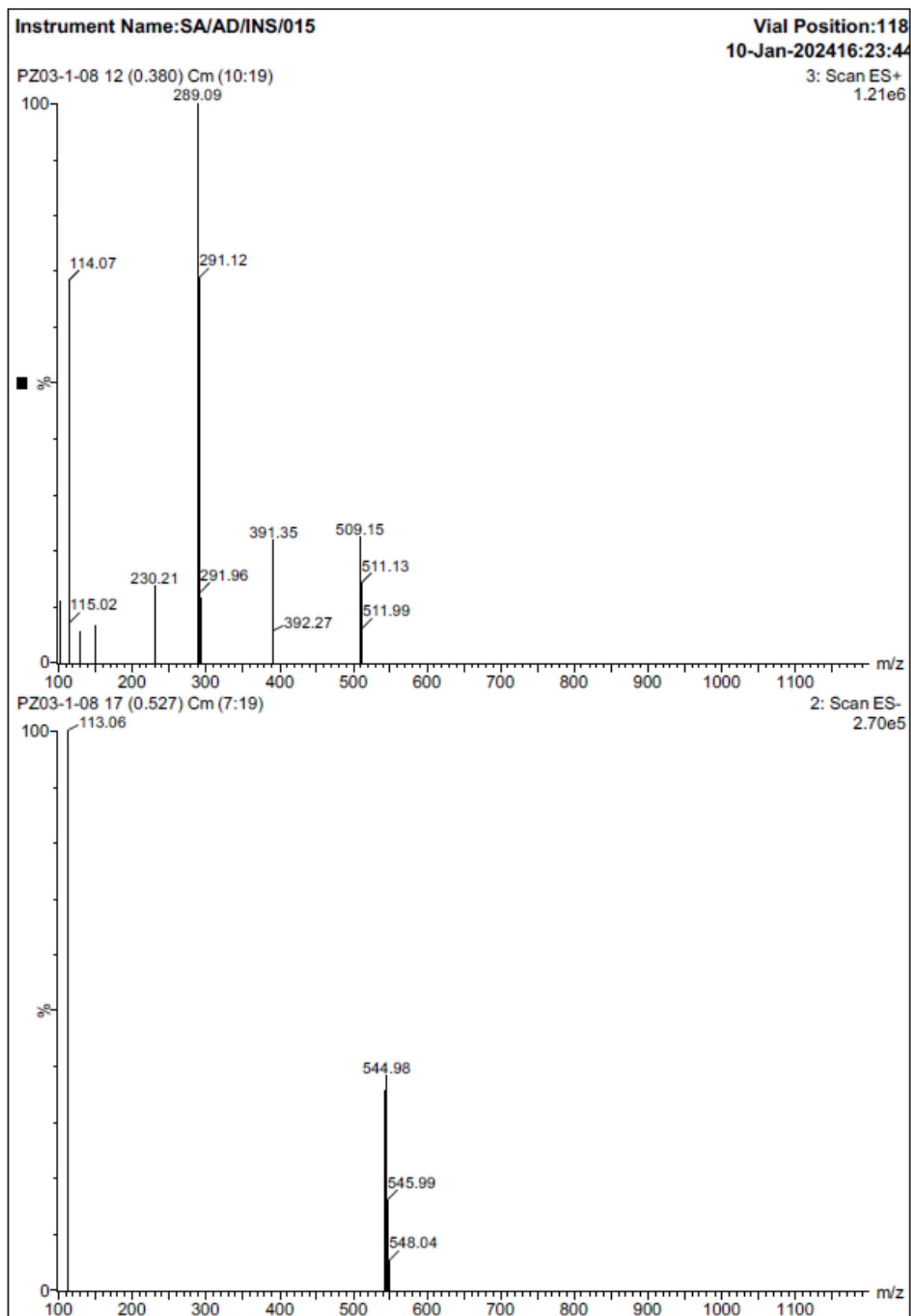
Sample Name	PZ03-1-06	Position	P1-F4	Instrument Name	Instrument 1	User Name	
Inj Vol	0.2	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	PZ03-1-06.d	ACQ Method	union.m	Comment		Acquired Time	10/7/2024 12:43:09 PM

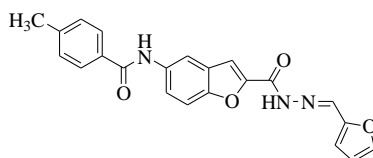
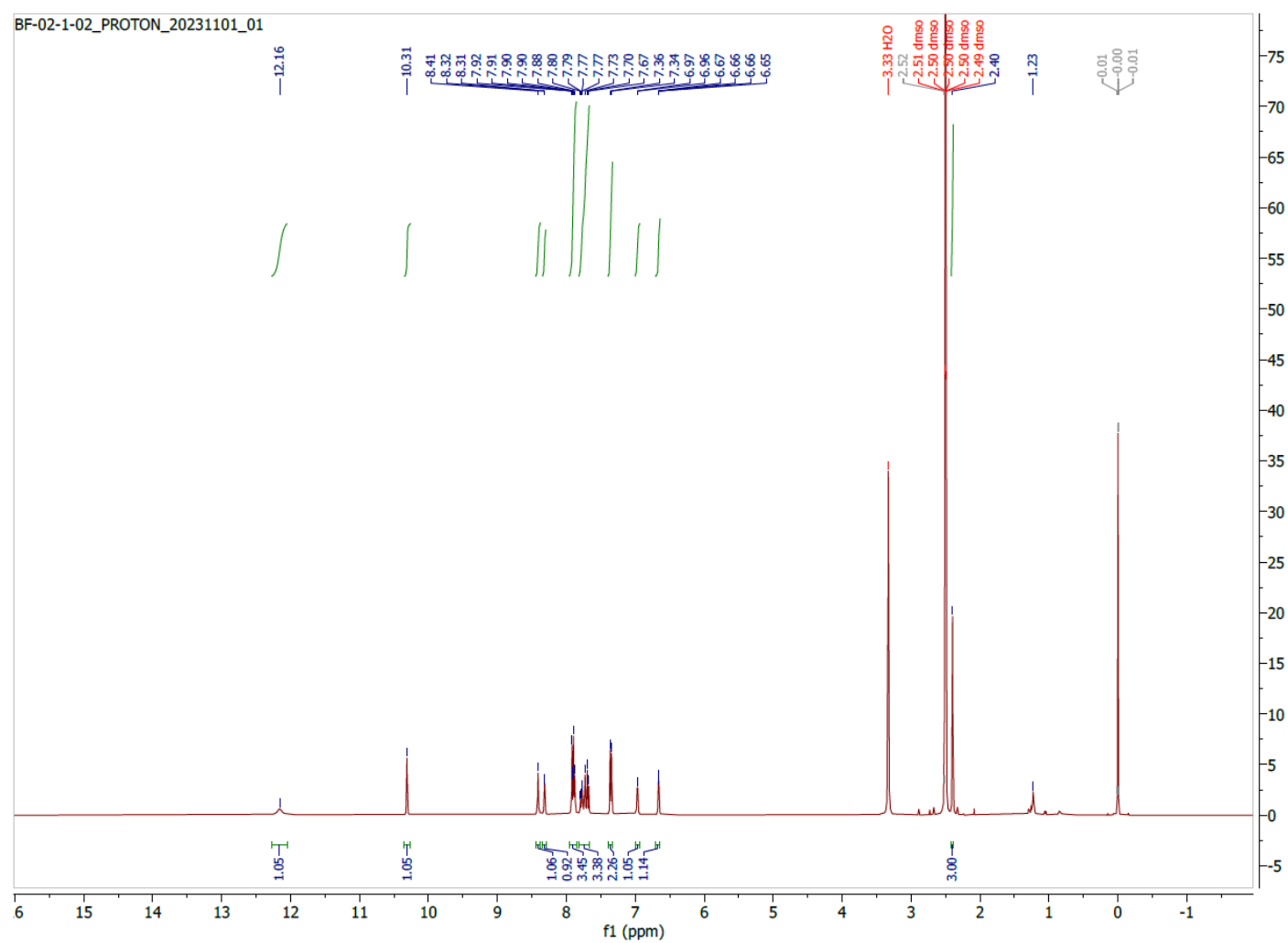


## Benzyl-2-(3,4-bis(4-chlorophenyl)-1H-pyrazole-1-carboxamido)ethylcarbamate (152)

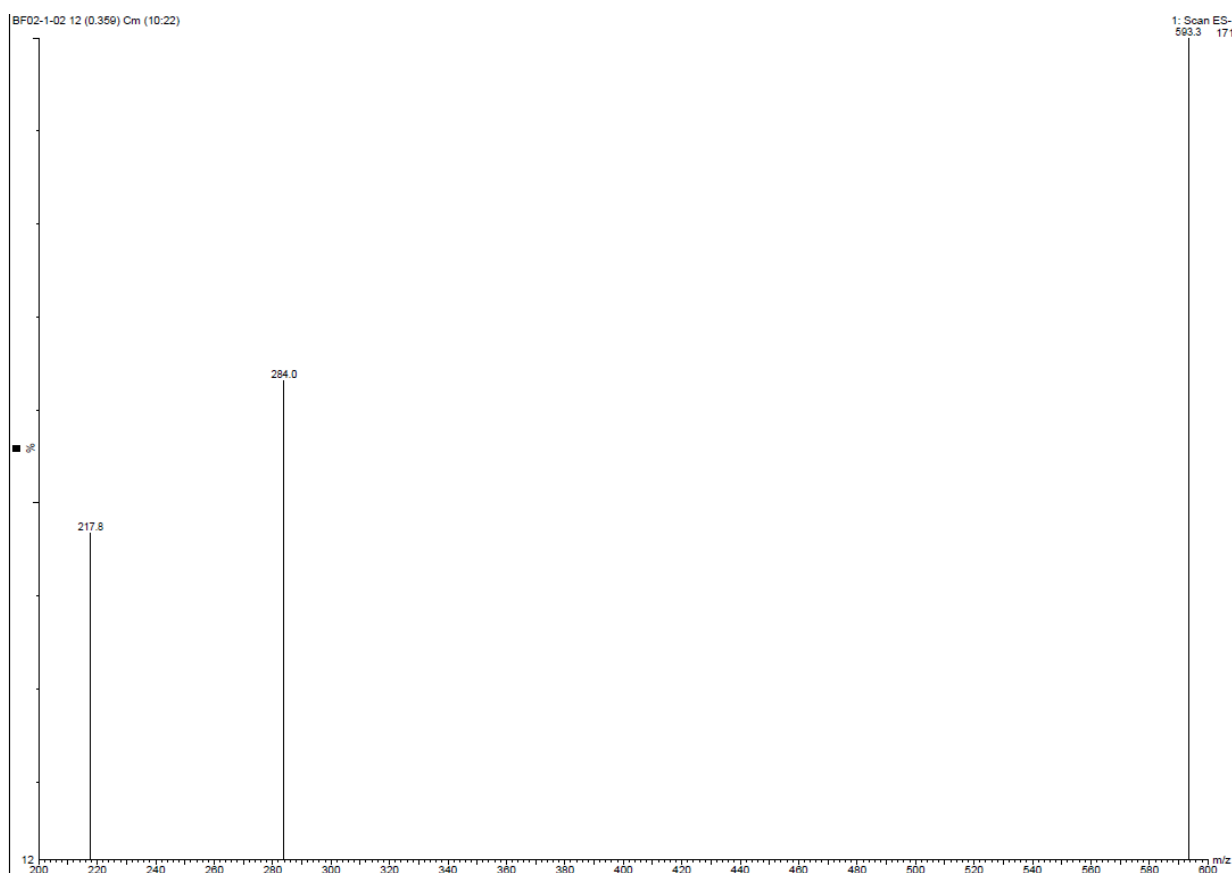
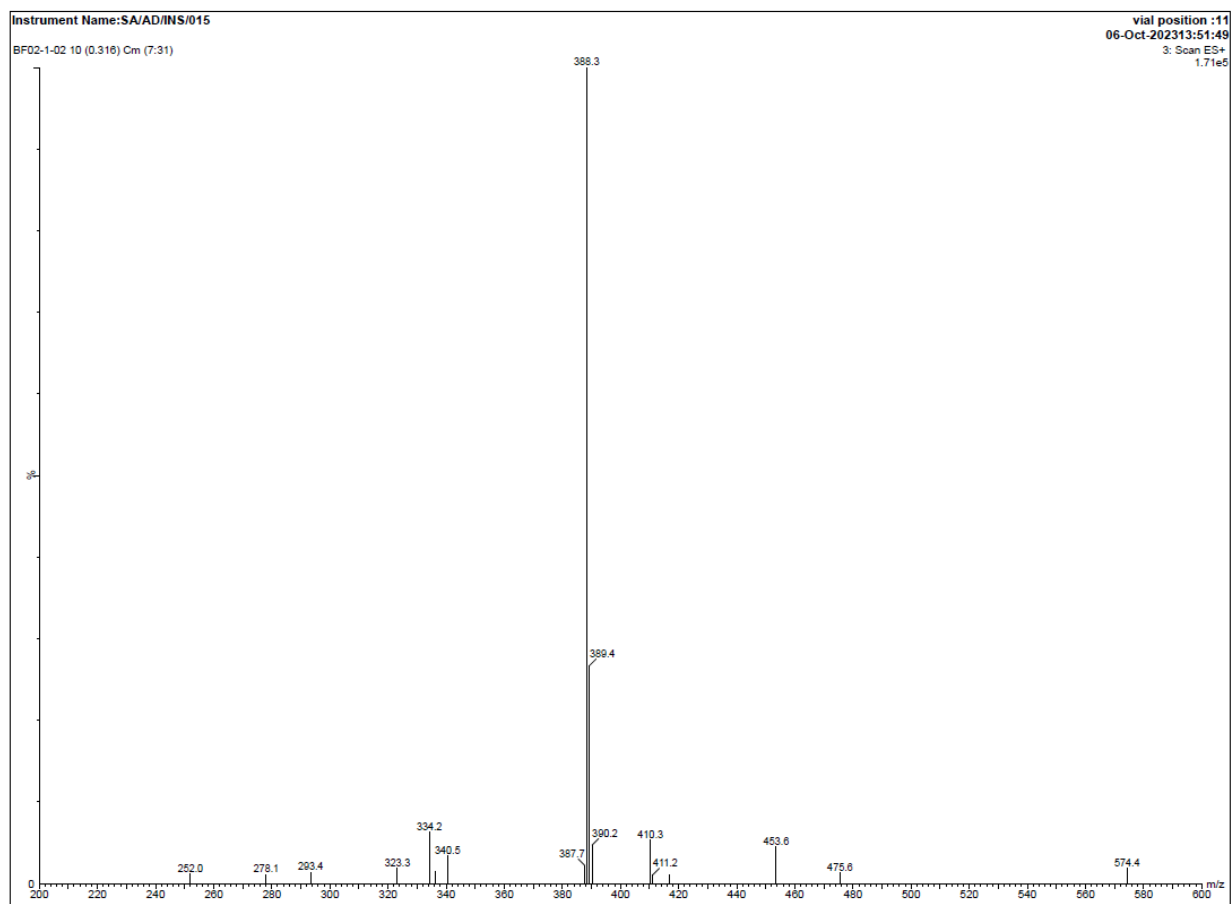
 $^1\text{H}$  &  $^{13}\text{C}$  NMR spectra

## Mass spectra:

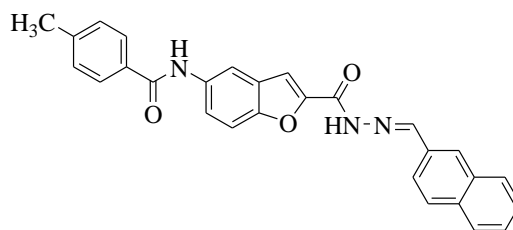


**(E)-N-(2-(2-(furan-2-ylmethylene)hydrazine-1-carbonyl)benzofuran-5-yl)-4-methylbenzamide (182)****<sup>1</sup>H NMR spectra:**

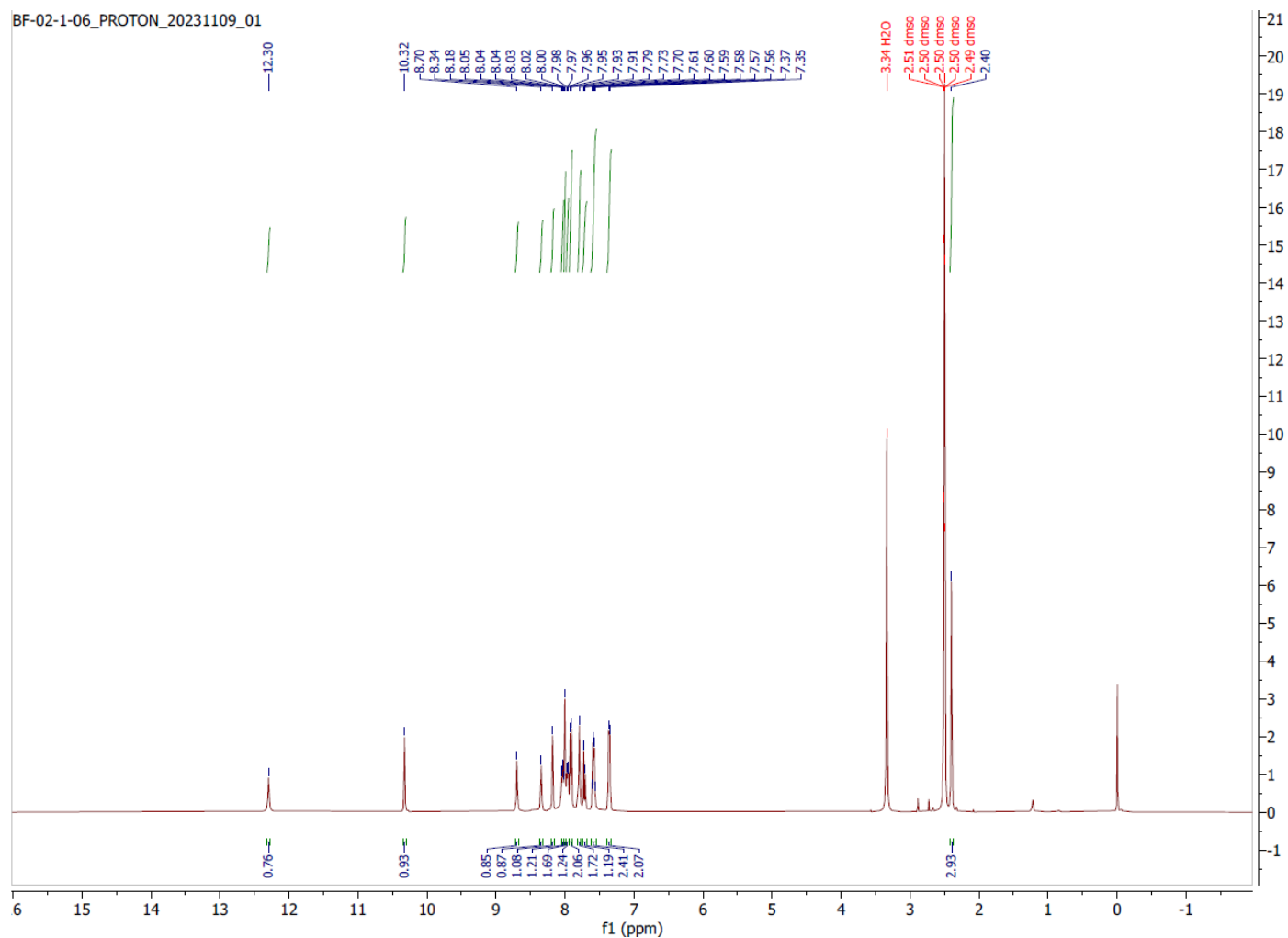
## Mass spectra:



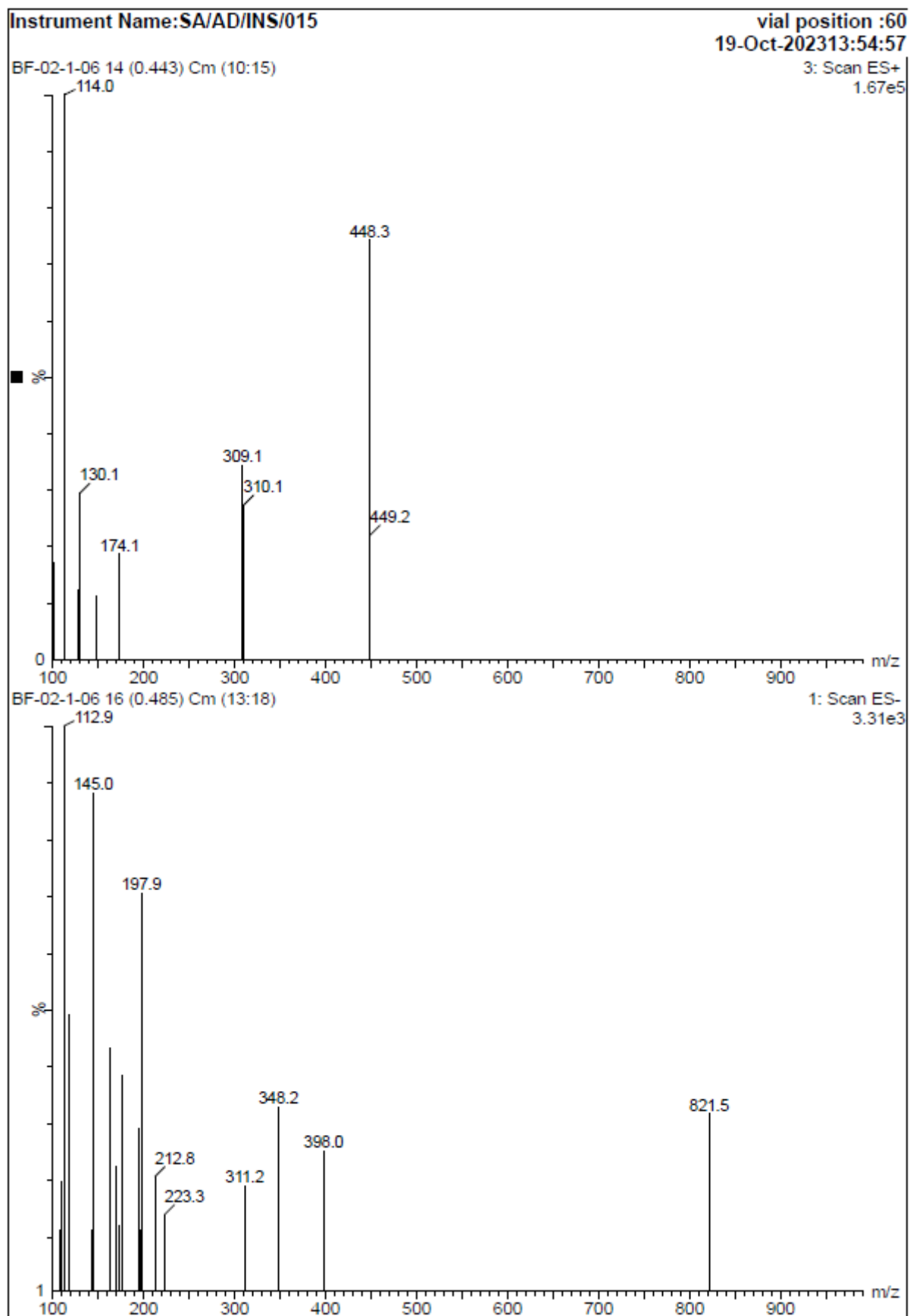
(E)-4-methyl-N-(2-(2-(naphthalen-2-ylmethylene)hydrazine-1-carbonyl)benzofuran-5-yl)benzamide  
(186)

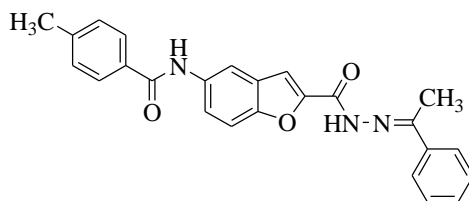
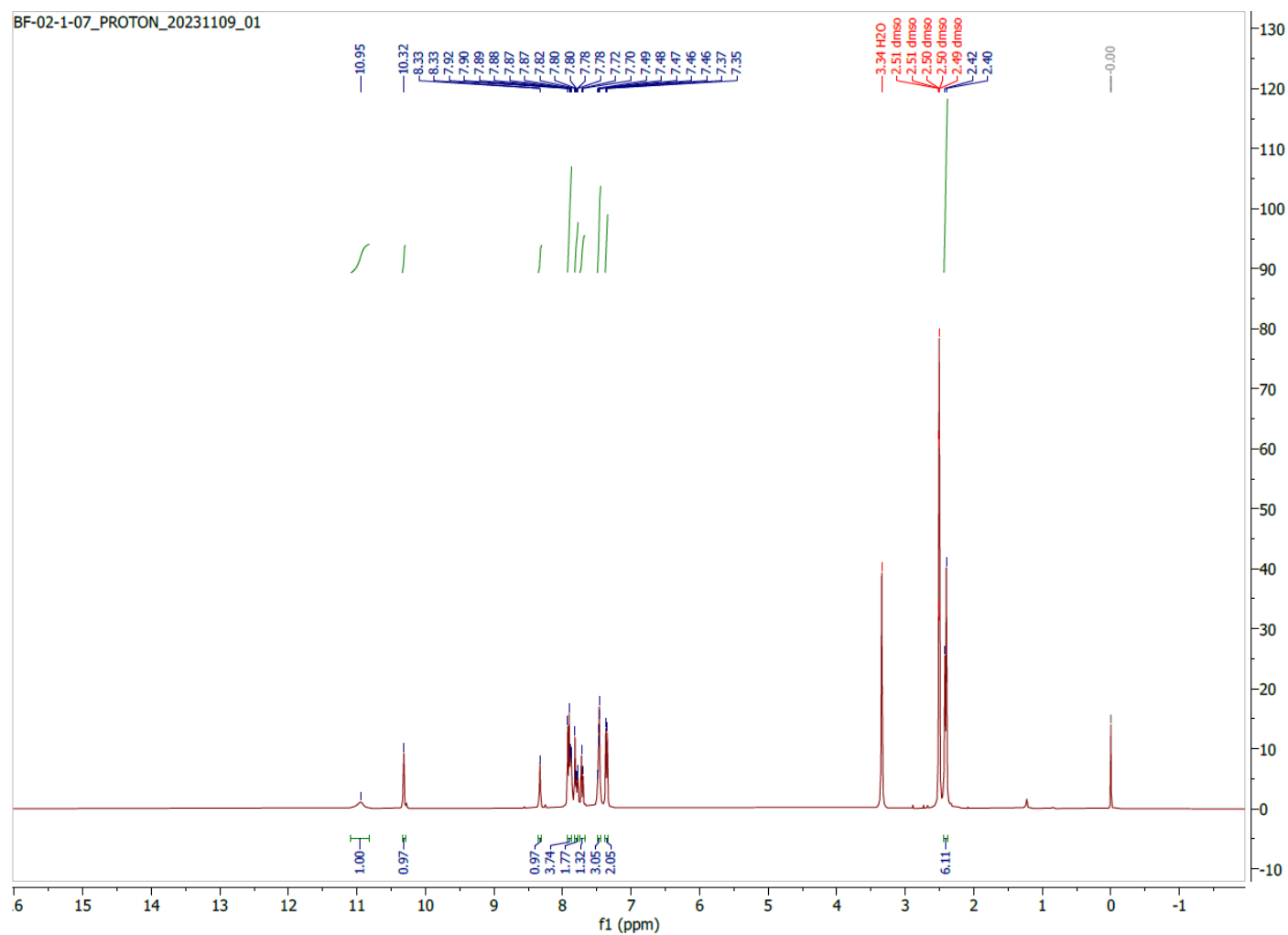


<sup>1</sup>H NMR spectra:

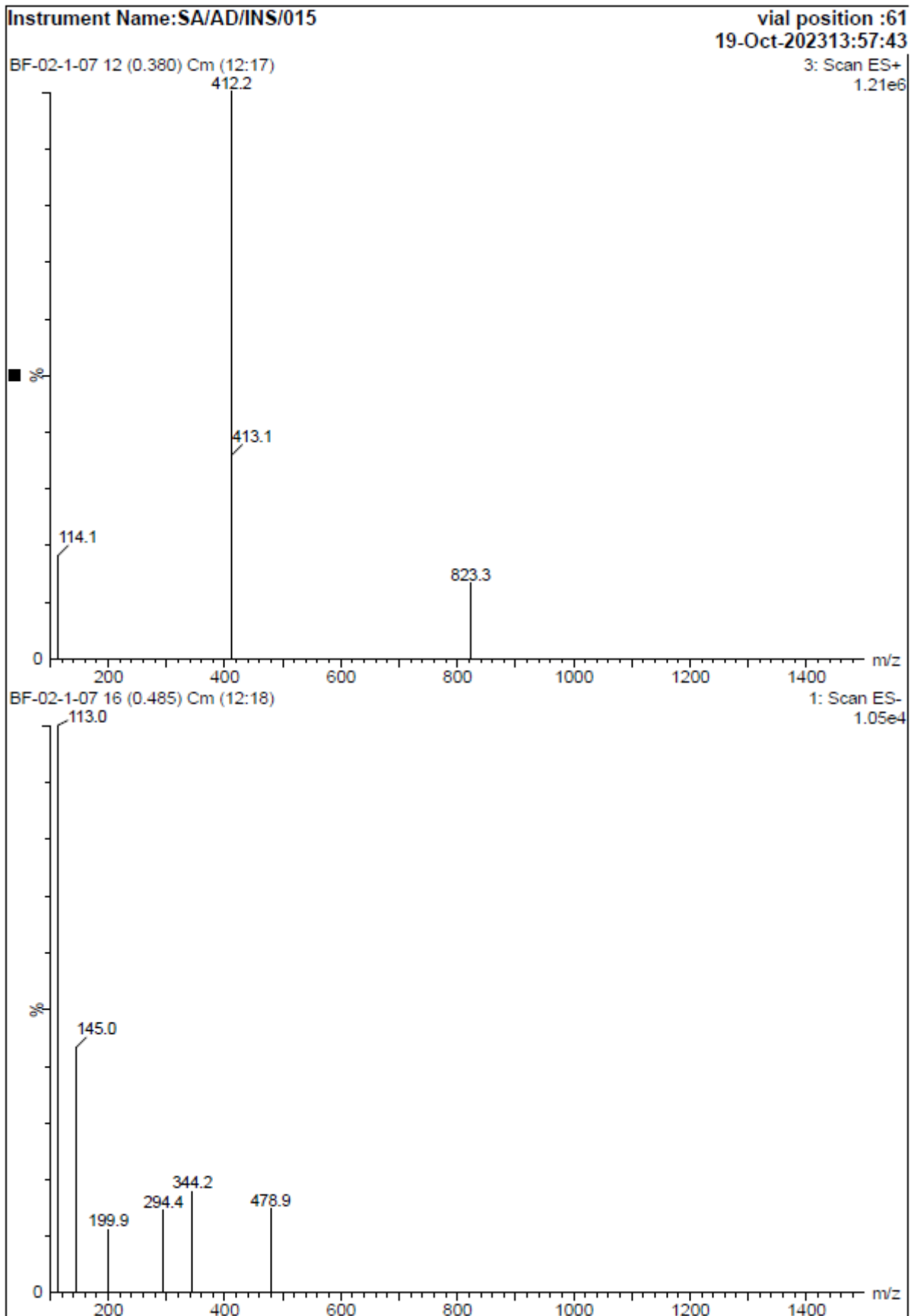


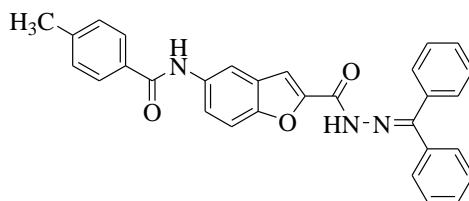
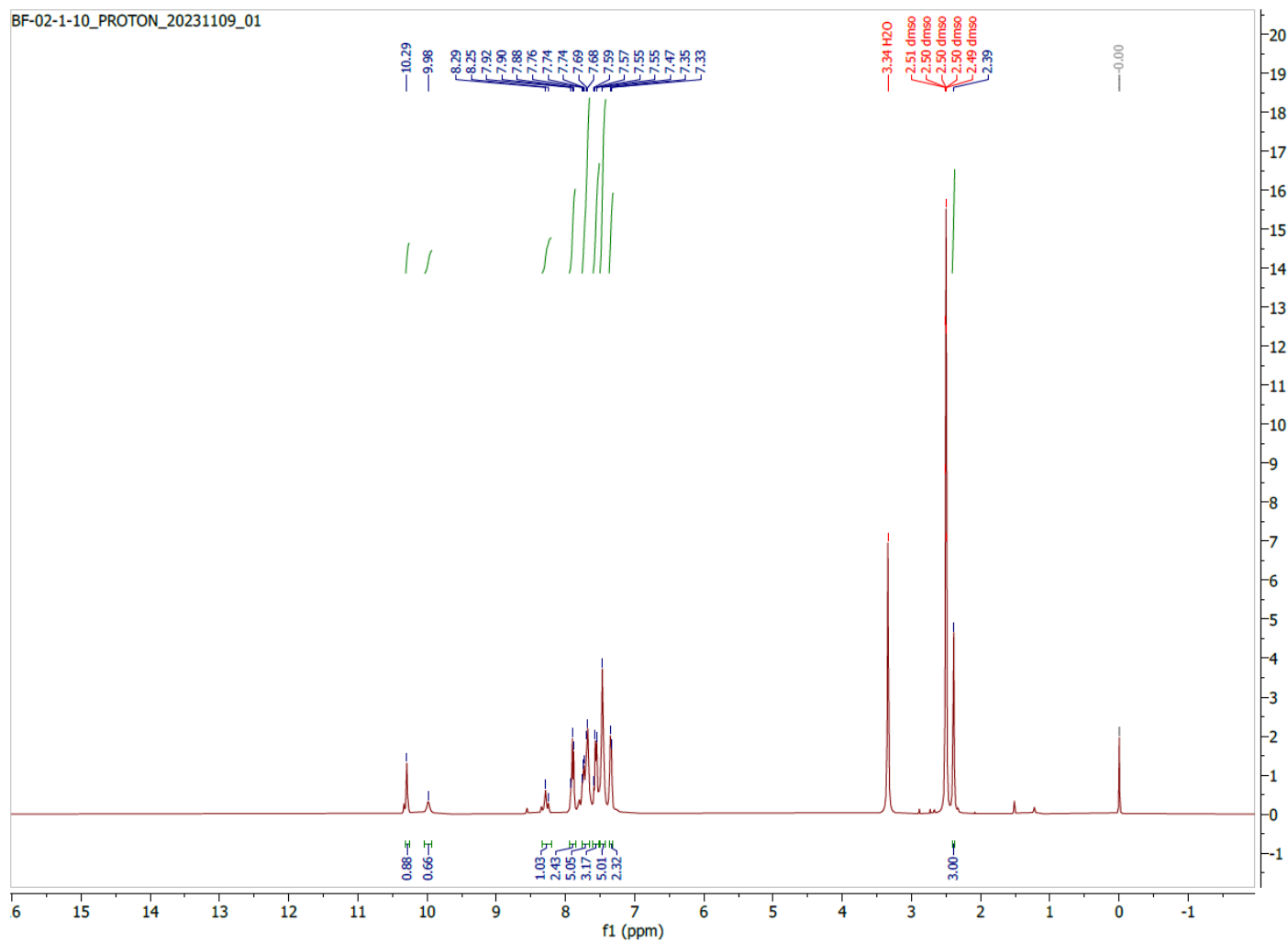
## Mass spectra:



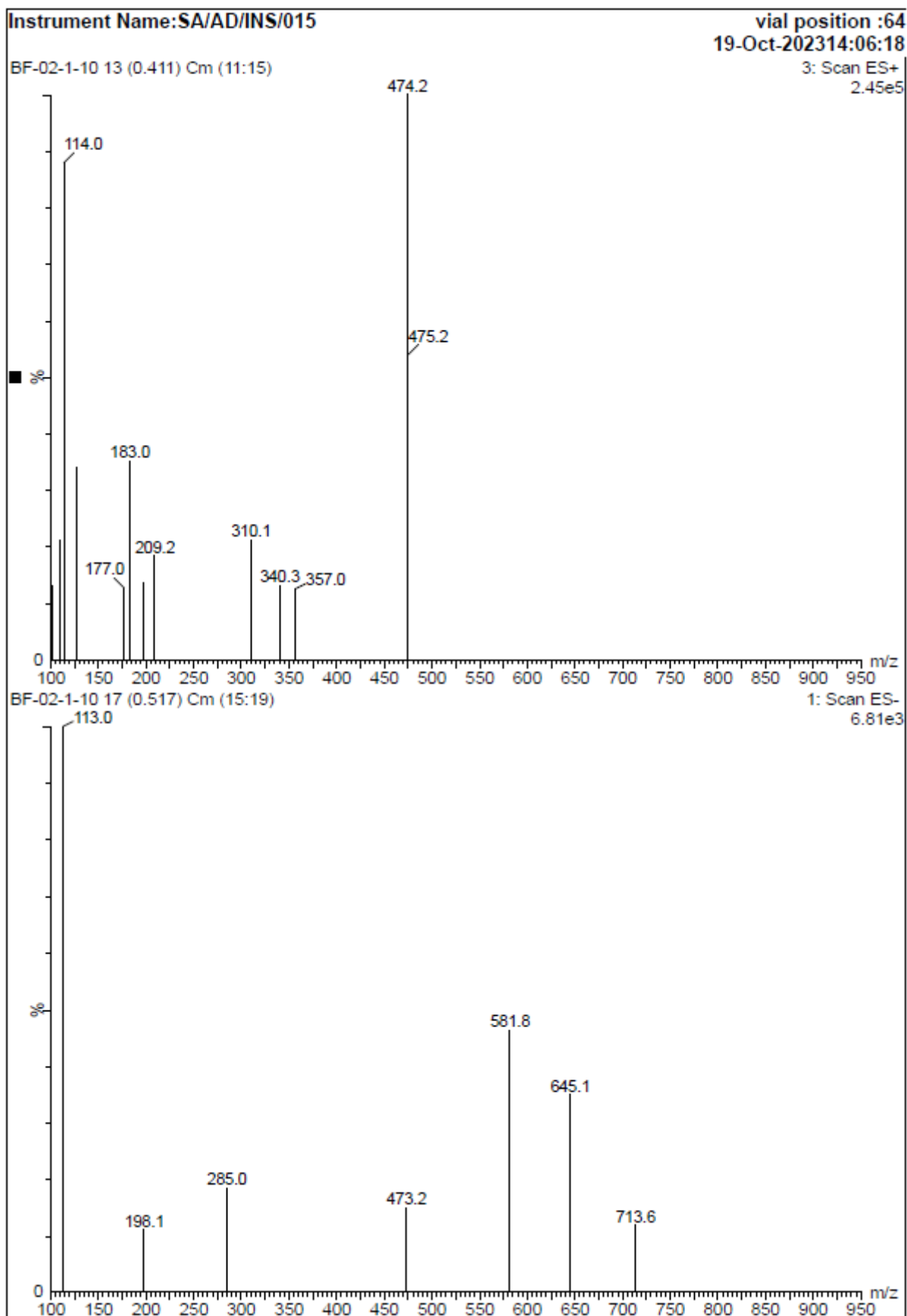
**(E)-4-methyl-N-(2-(2-(1-phenylethylidene)hydrazine-1-carbonyl)benzofuran-5-yl)benzamide (187)****<sup>1</sup>H NMR spectra:**

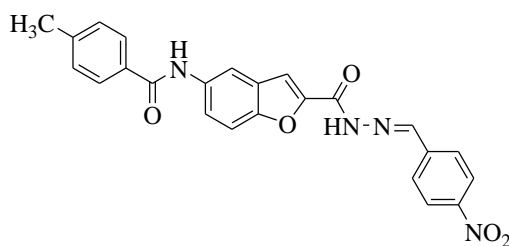
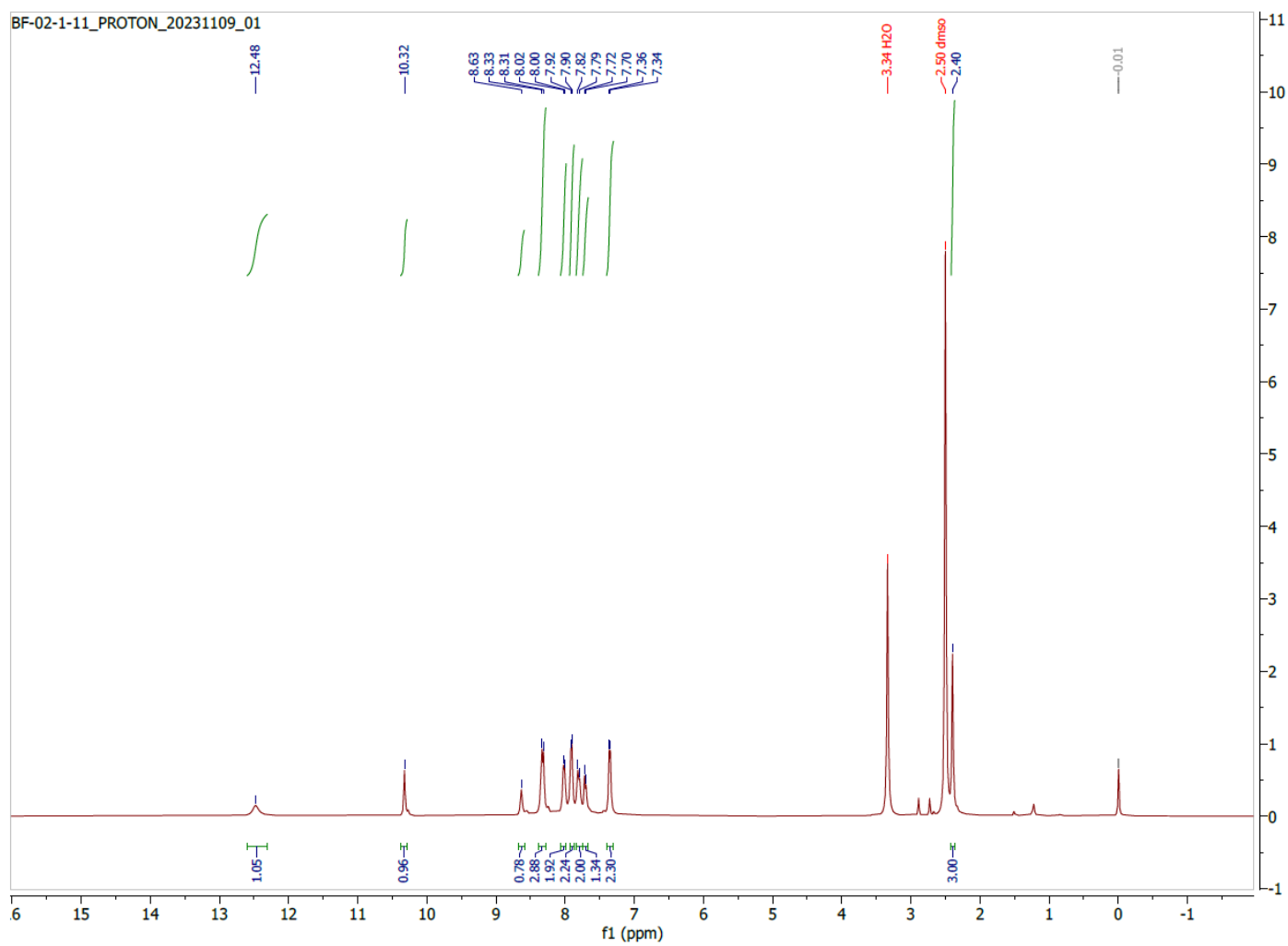
Mass spectra:



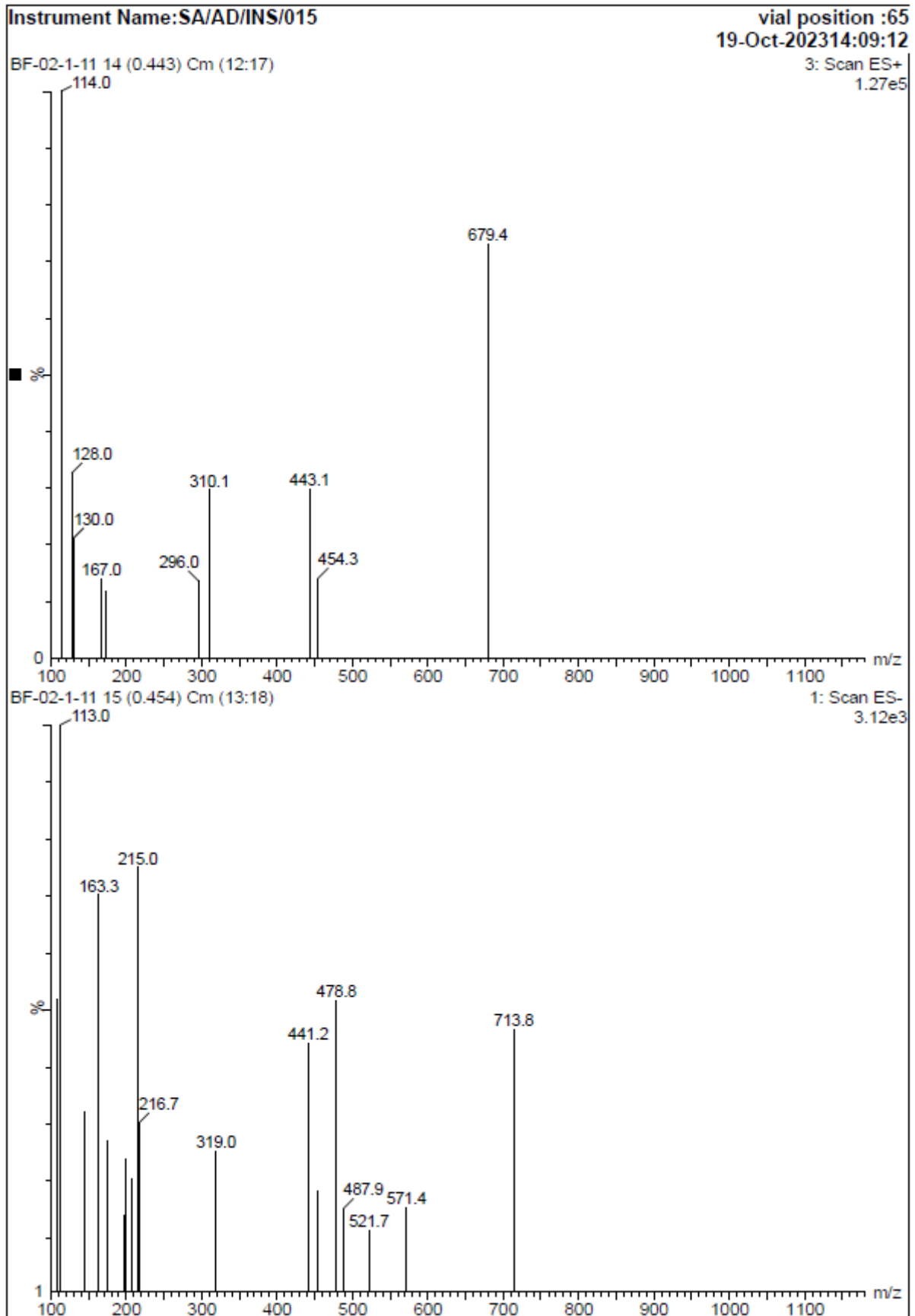
***N*-[2-(2-(diphenylmethylene)hydrazine-1-carbonyl)benzofuran-5-yl]-4-methylbenzamide (190)****<sup>1</sup>H NMR spectra:**

## Mass spectra:

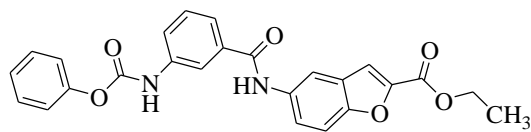


**(E)-4-methyl-N-(2-(2-(4-nitrobenzylidene)hydrazine-1-carbonyl)benzofuran-5-yl)benzamide (191)****<sup>1</sup>H NMR spectra:**

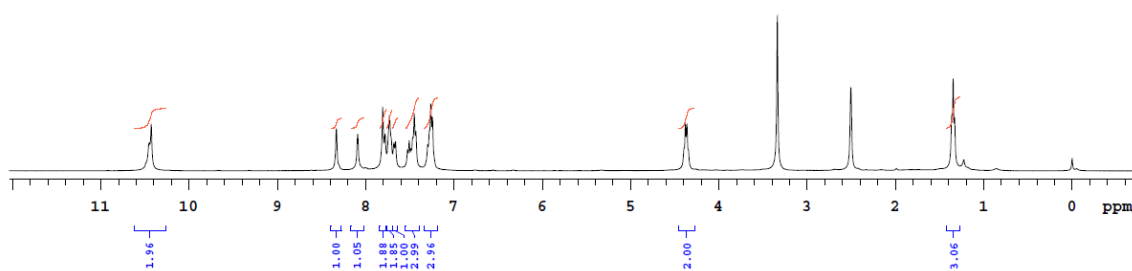
## Mass spectra:



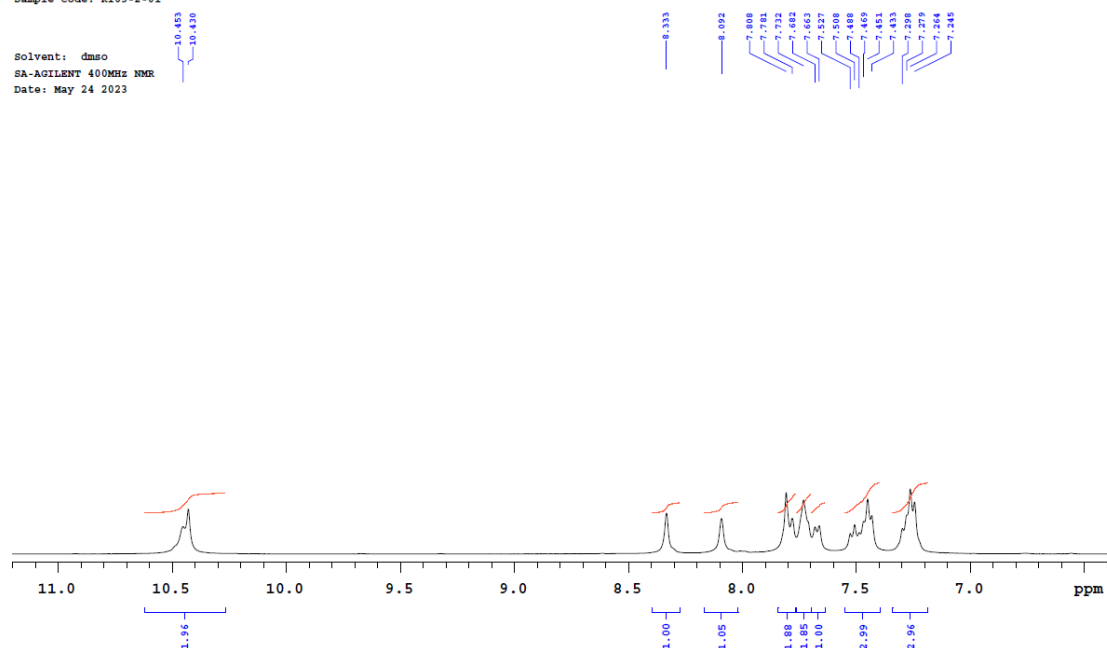
## Ethyl 5-((3-phenylcarbamate)benzamido)benzofuran-2-carboxylate (203)

<sup>1</sup>H NMR spectra:

Sample Code: KI03-2-01

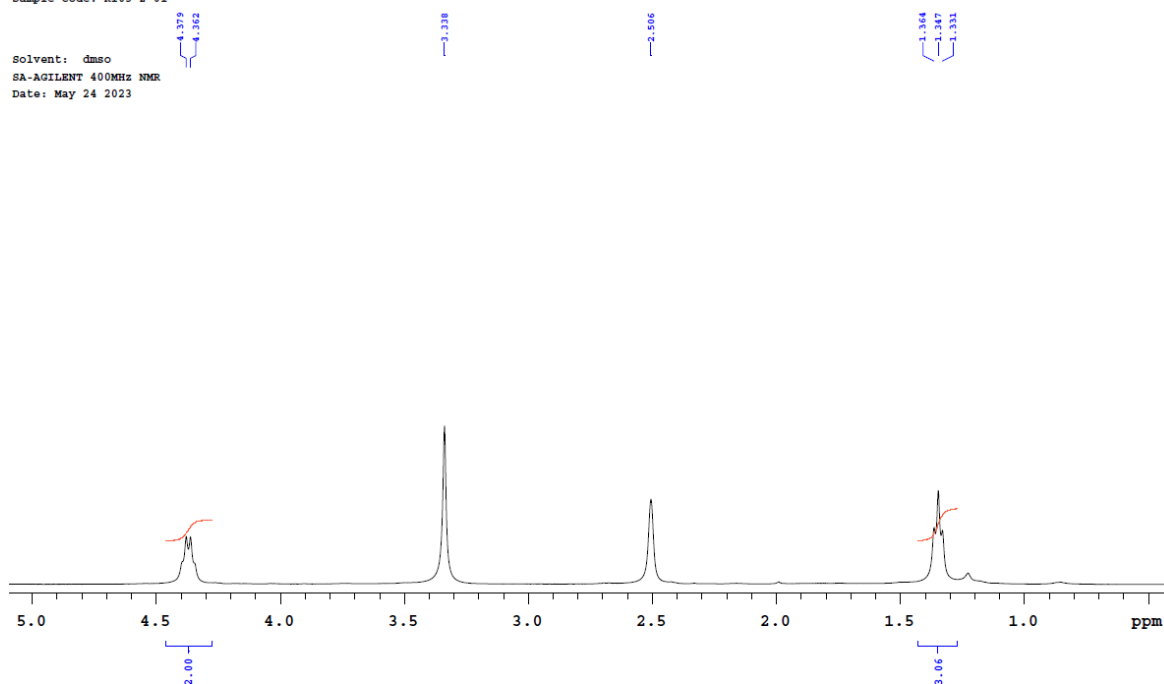
Solvent: dmsd  
SA-AGILENT 400MHZ NMR  
Date: May 24 2023

Sample Code: KI03-2-01

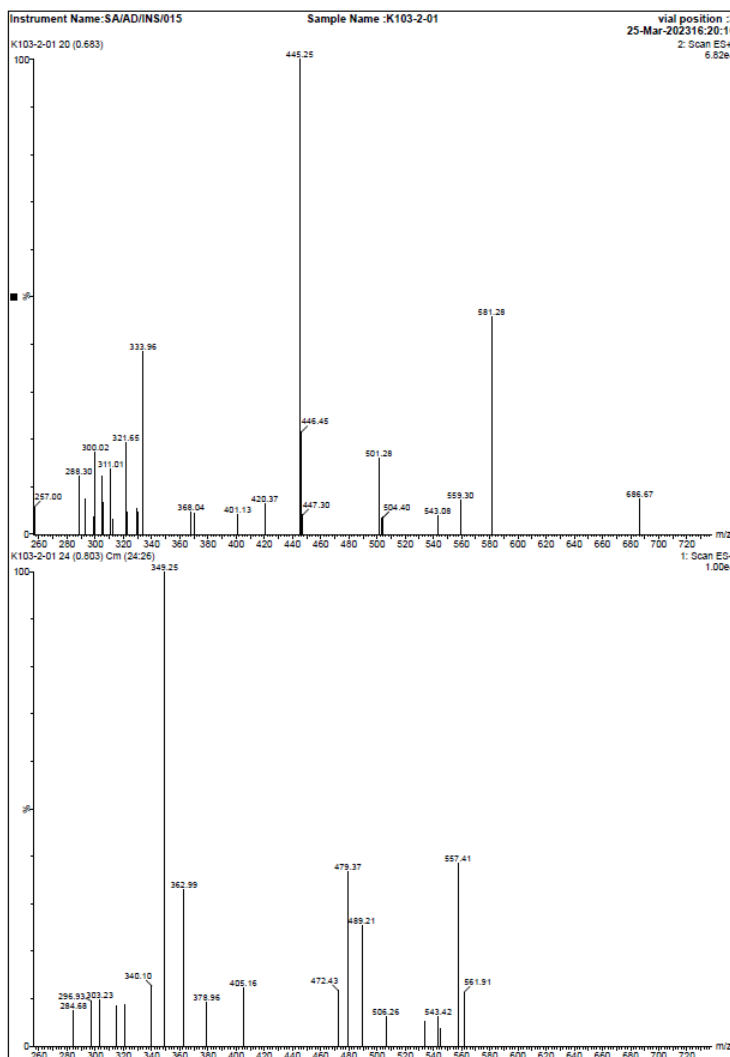
Solvent: dmsd  
SA-AGILENT 400MHZ NMR  
Date: May 24 2023

Sample Code: K103-2-01

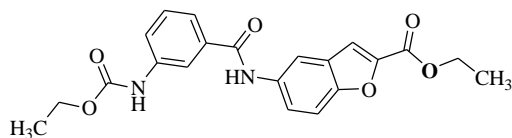
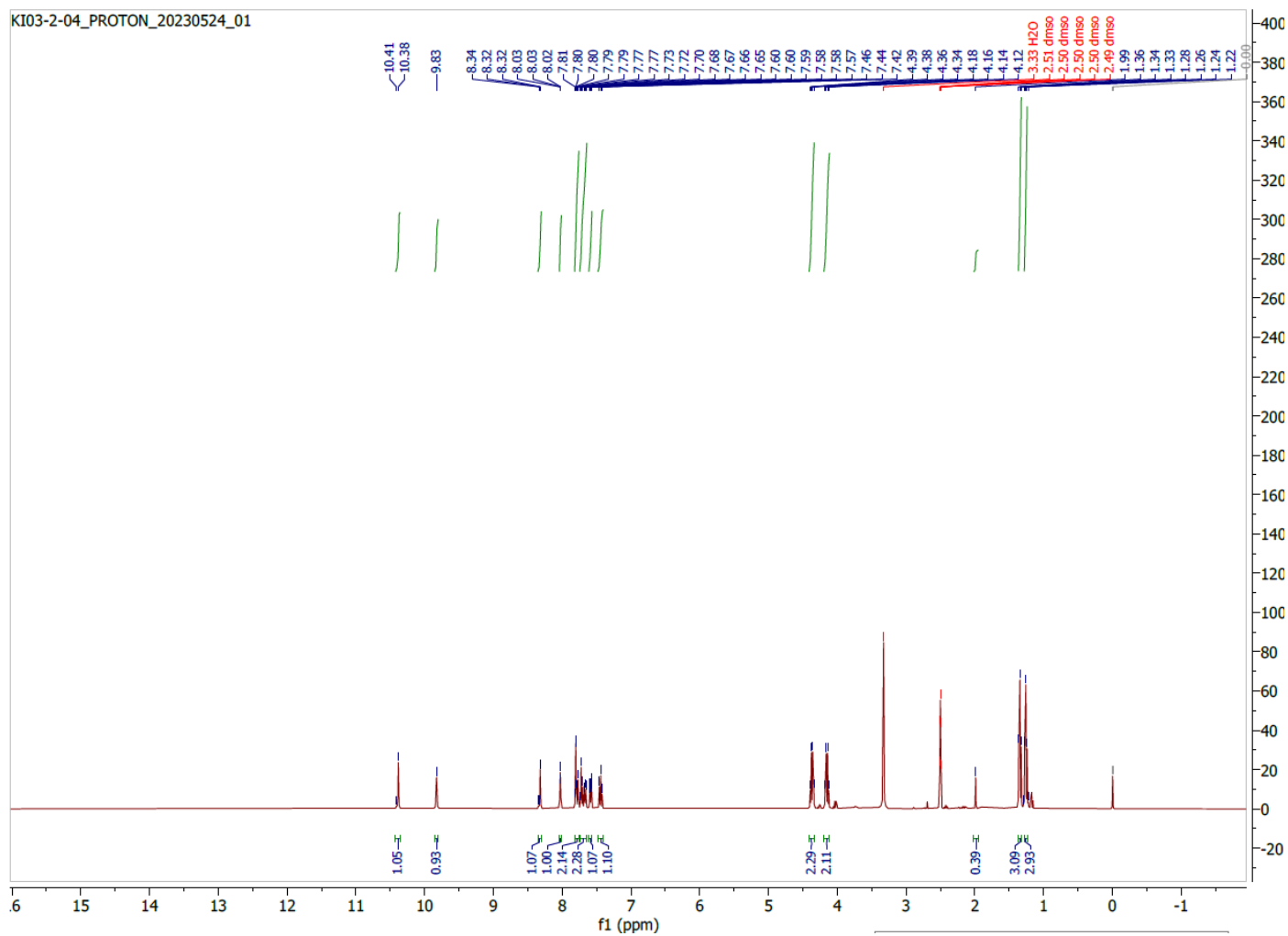
Solvent: dmsc  
 SA-AGILENT 400MHz NMR  
 Date: May 24 2023



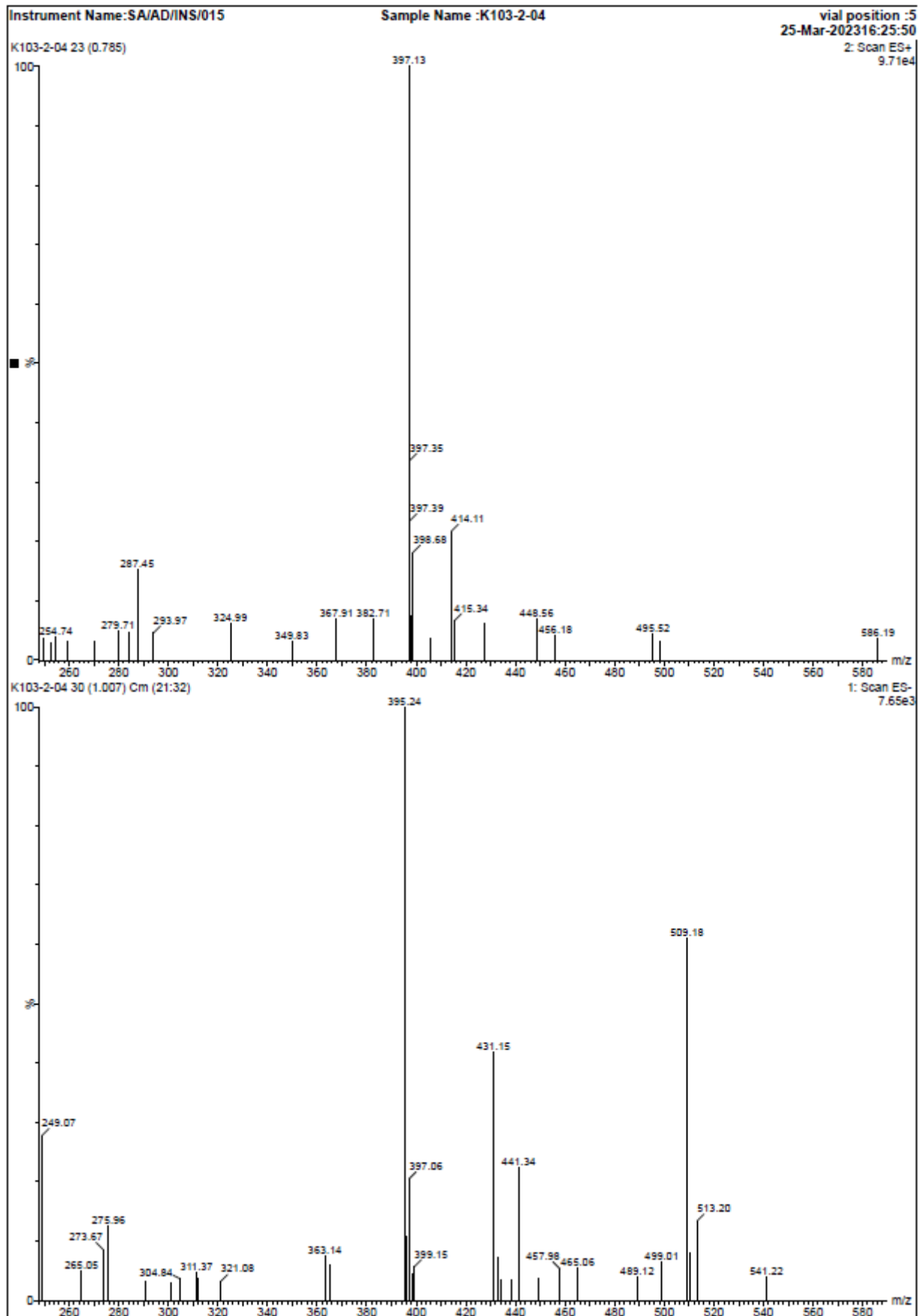
Mass spectra:



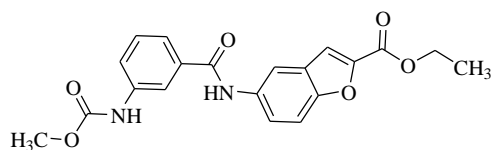
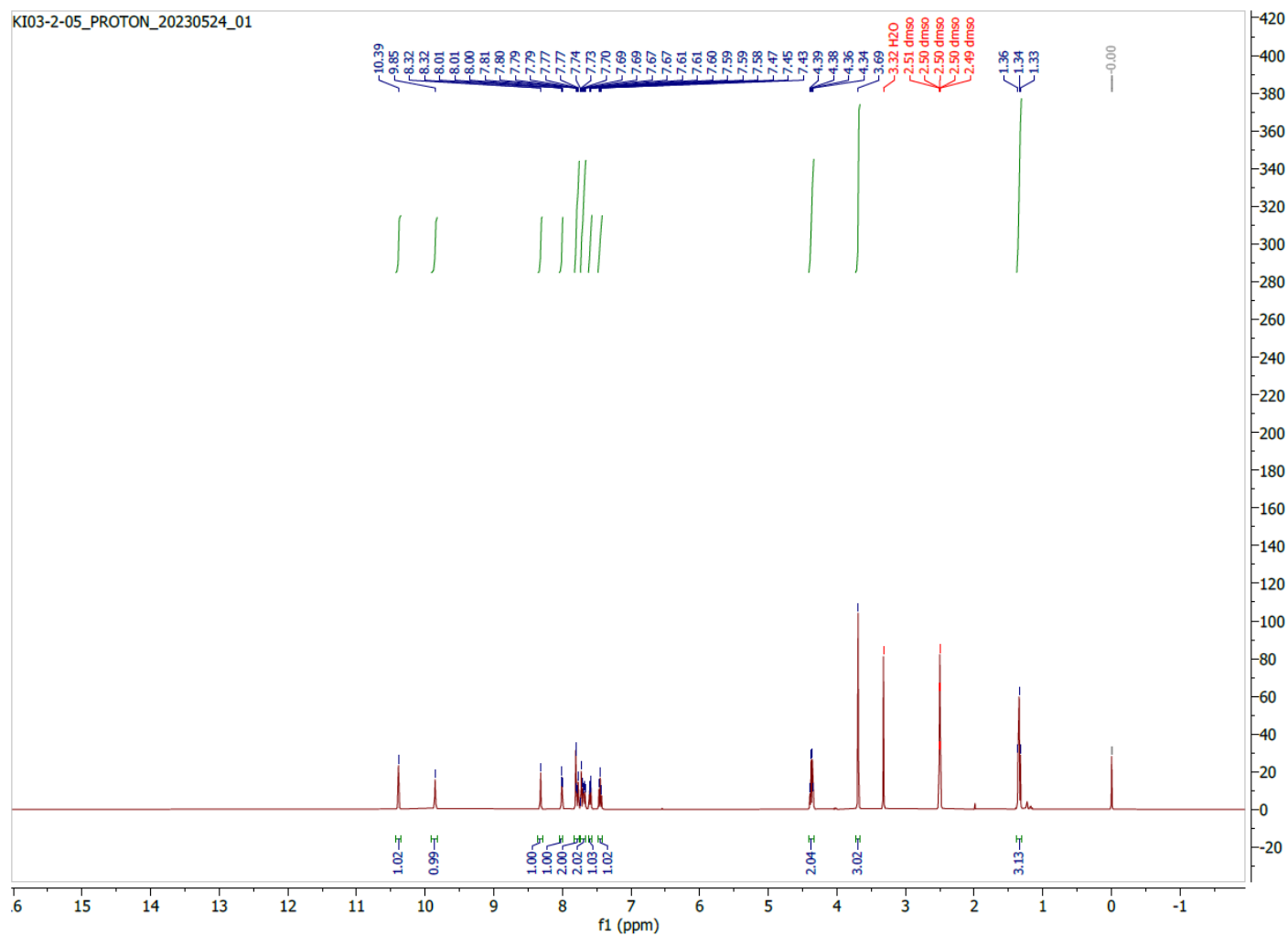
## Ethyl 5-((3-ethylcarbamate)benzamido)benzofuran-2-carboxylate (205)

<sup>1</sup>H NMR spectra:

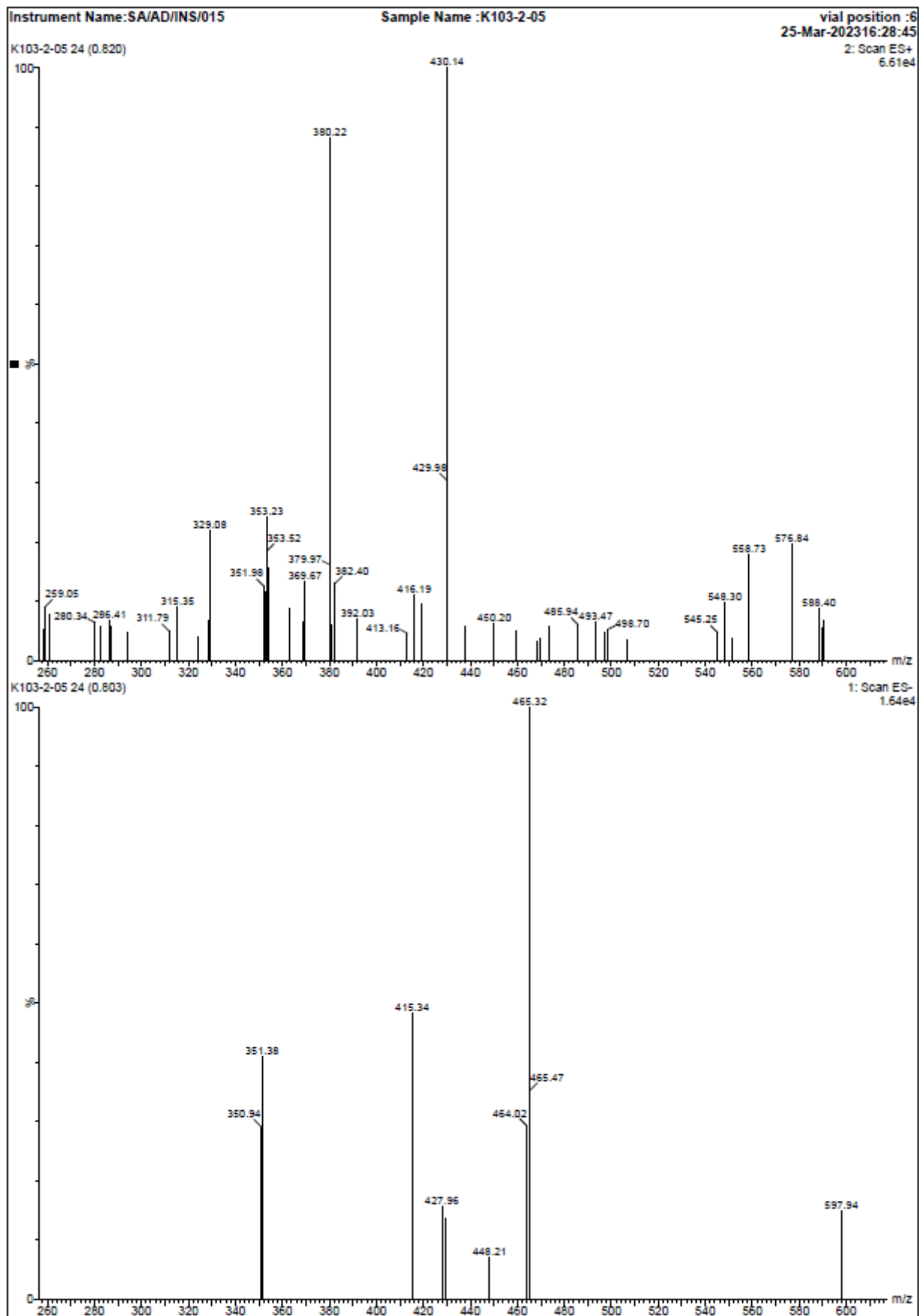
## Mass spectra:



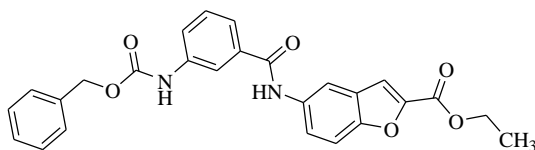
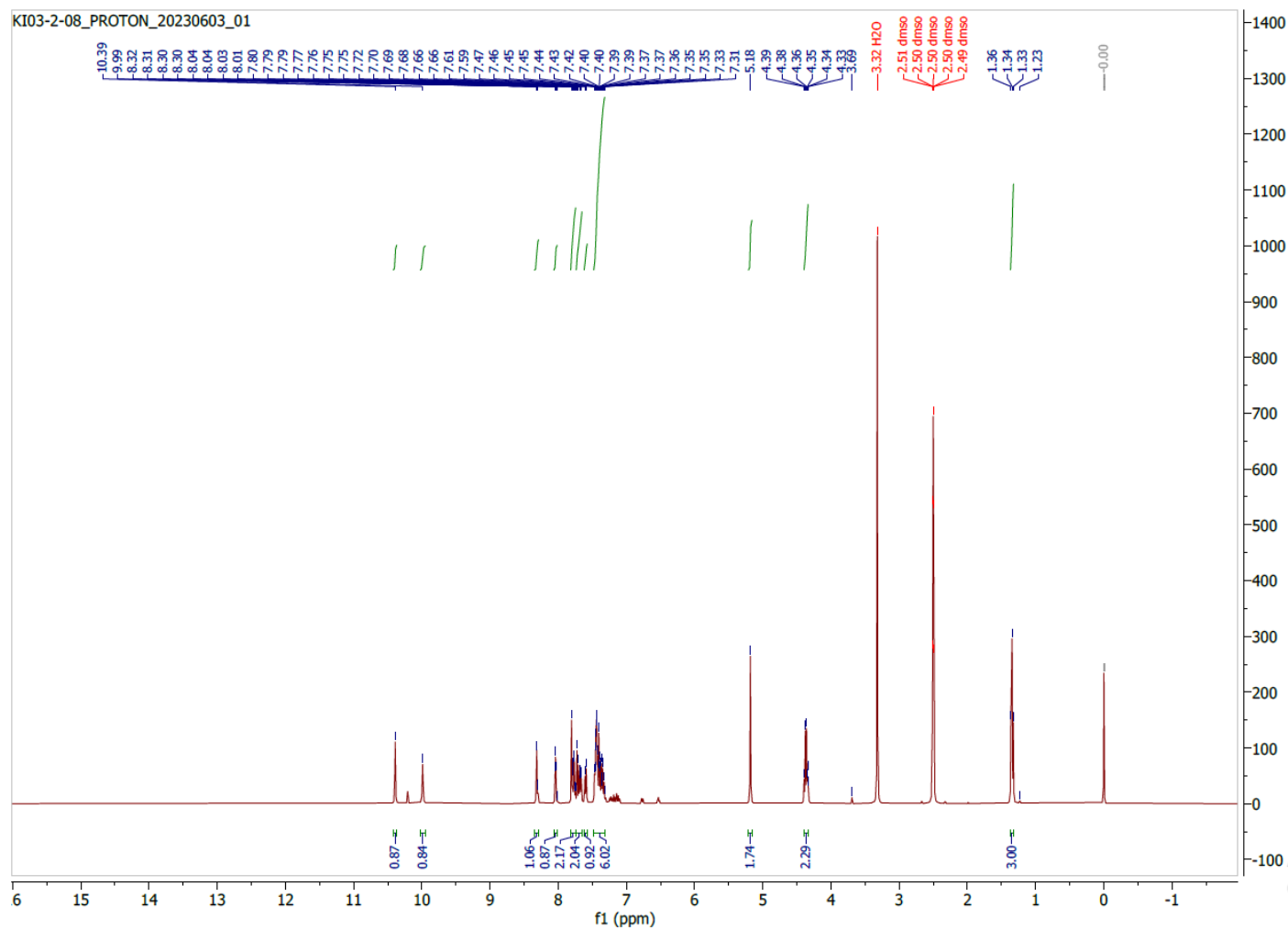
## Ethyl 5-((3-methylcarbamate)benzamido)benzofuran-2-carboxylate (206)

<sup>1</sup>H NMR spectra:

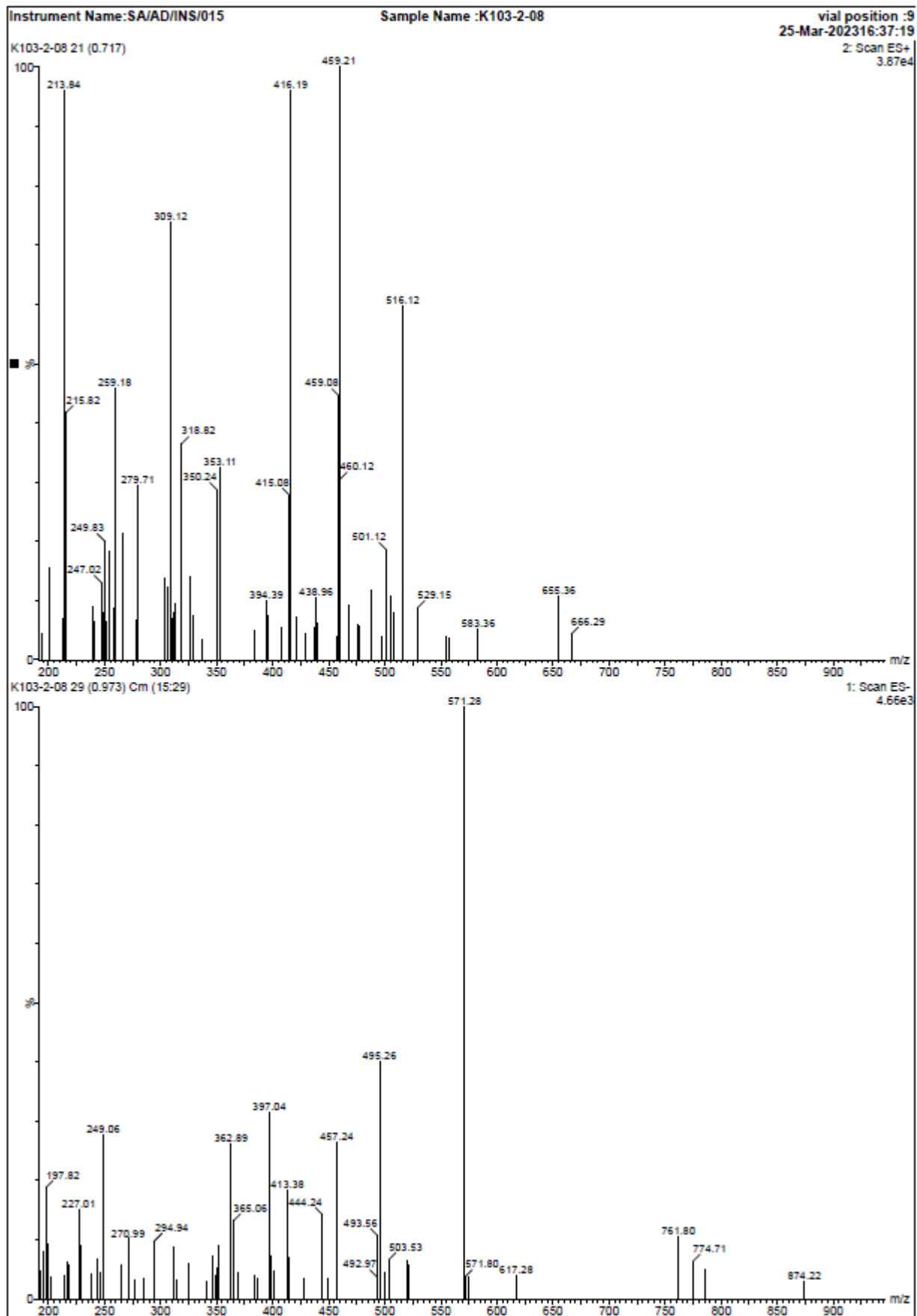
## Mass spectra:



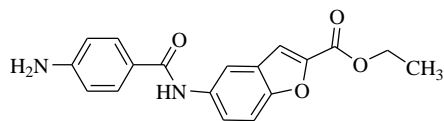
## Ethyl 5-((3-benzylcarbamate)benzamido)benzofuran-2-carboxylate (208)

<sup>1</sup>H NMR spectra:

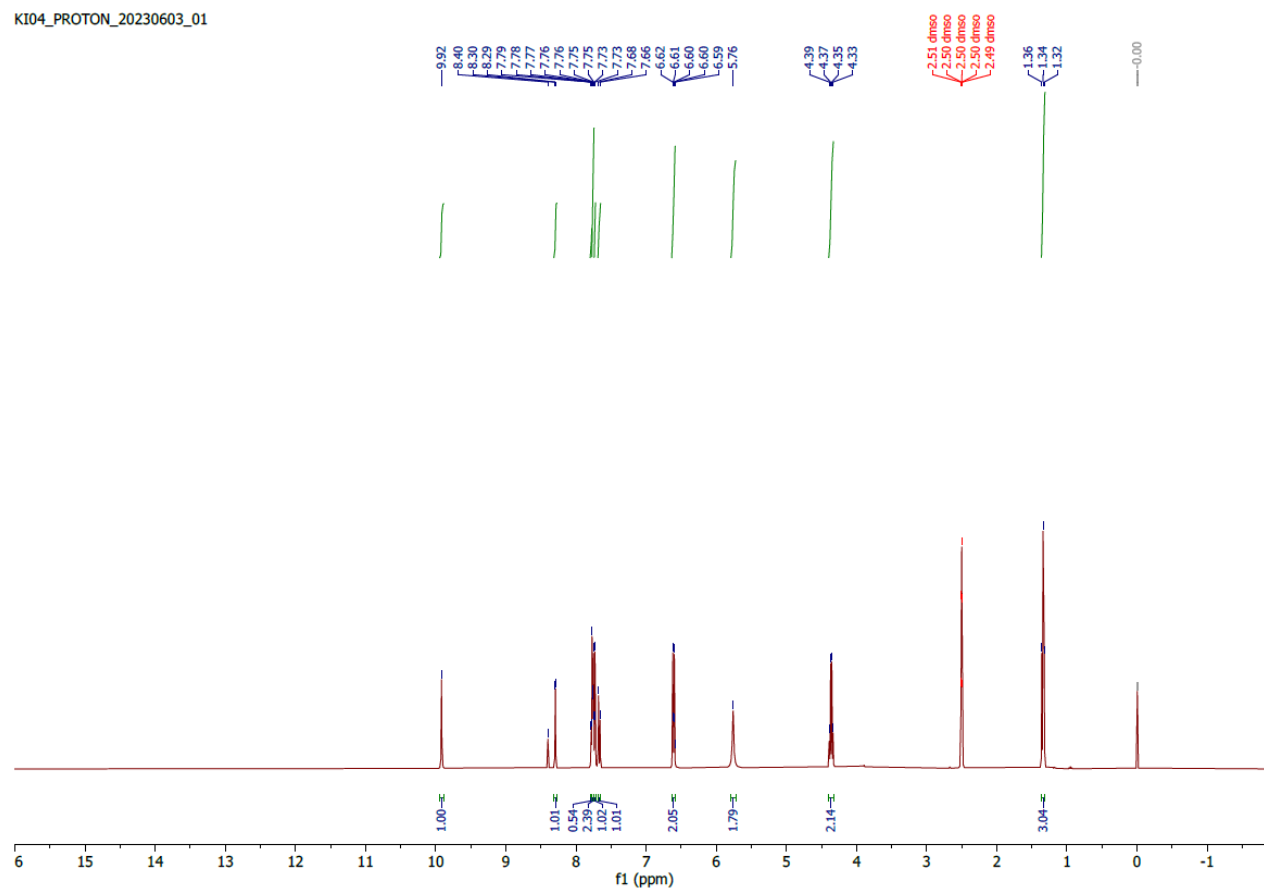
Mass spectra:



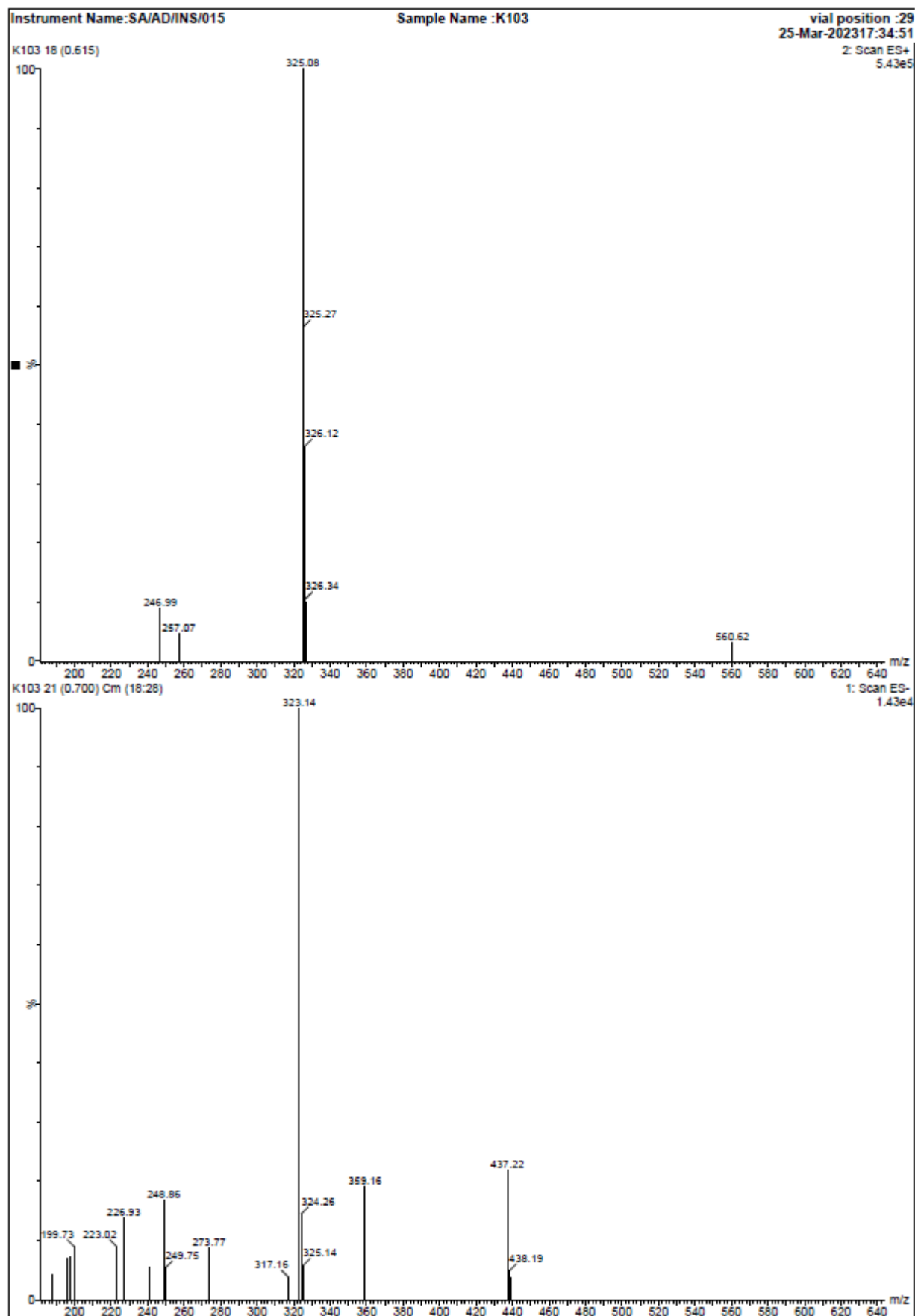
## Ethyl 5-((4-amino)benzamido)benzofuran-2-carboxylate (211)

<sup>1</sup>H NMR spectra:

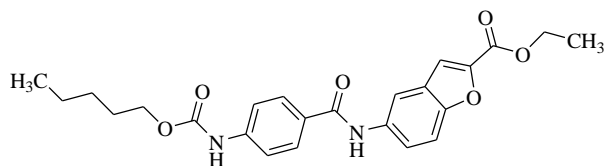
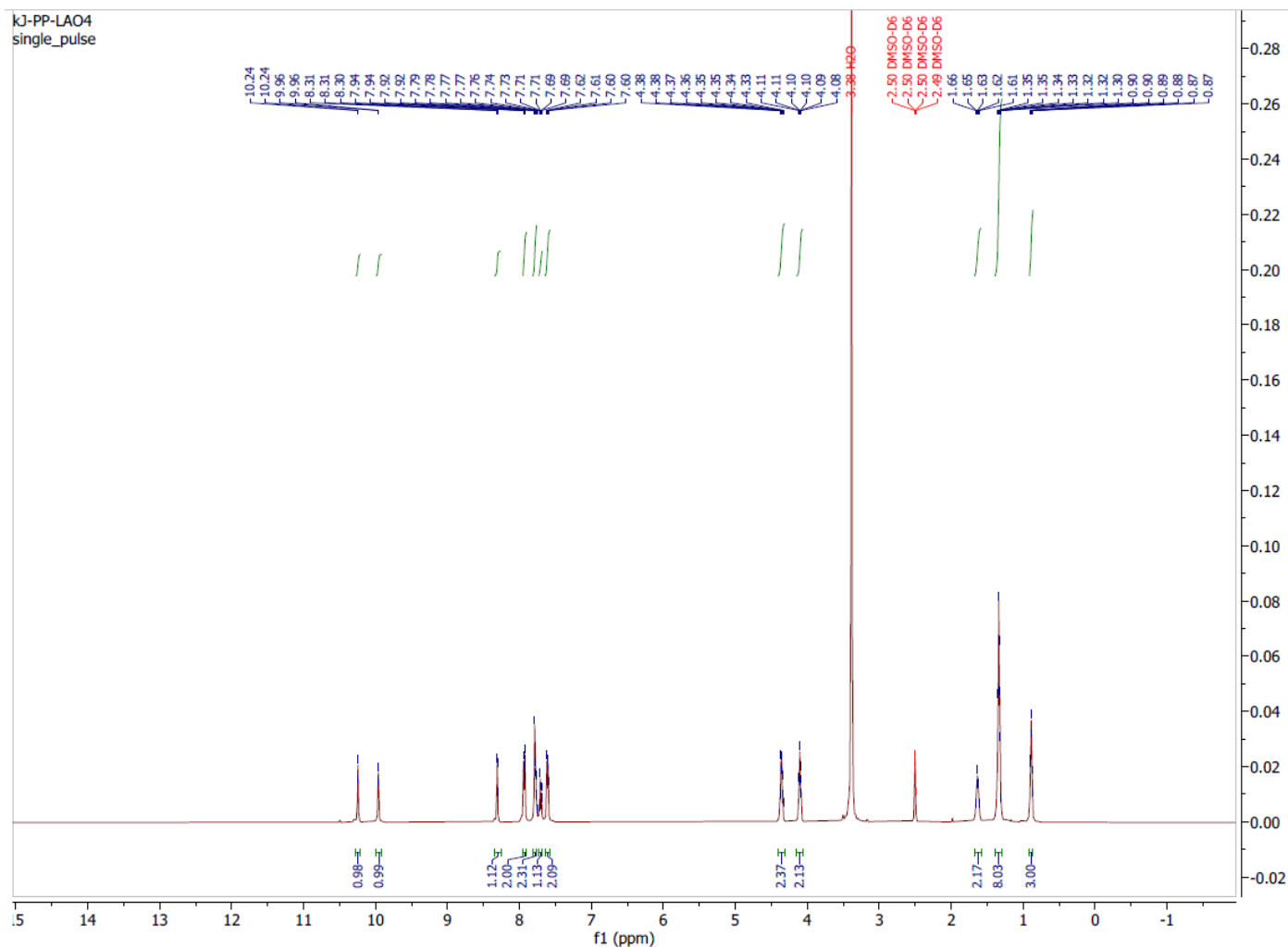
KI04\_PROTON\_20230603\_01



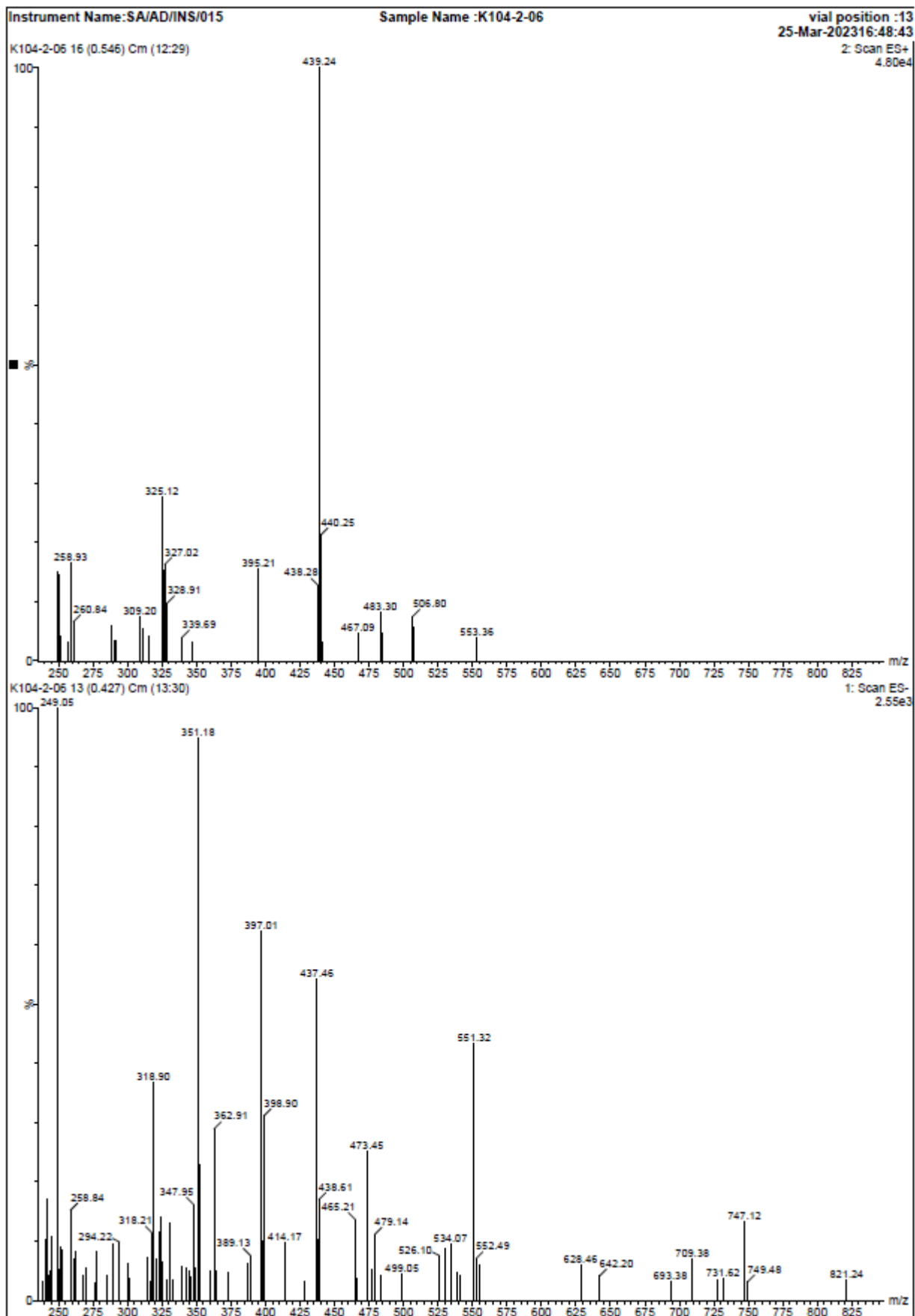
## Mass spectra:



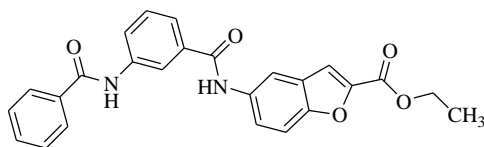
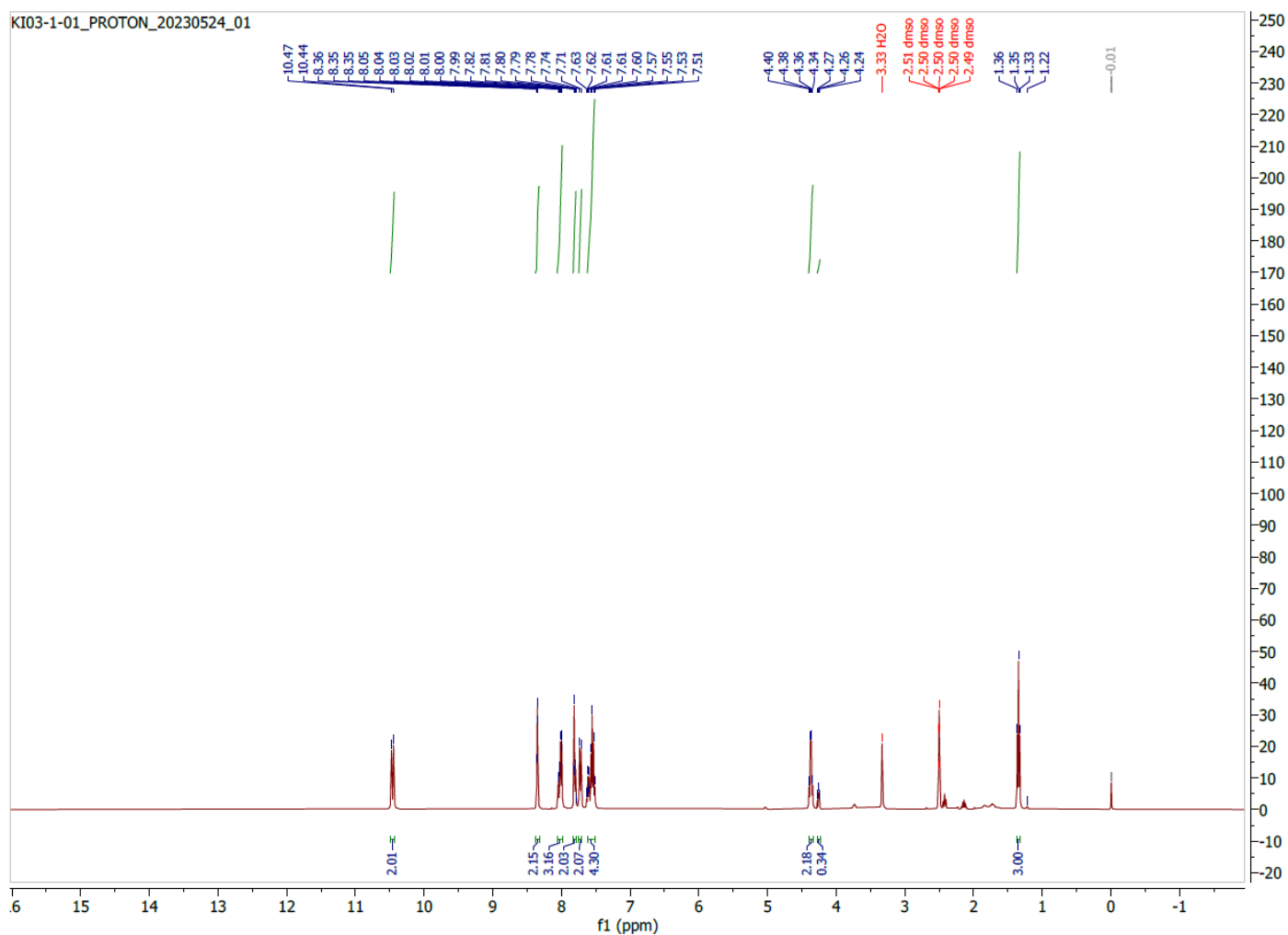
## Ethyl 5-((4-pentylcarbamate)benzamido)benzofuran-2-carboxylate (214)

<sup>1</sup>H NMR spectra:

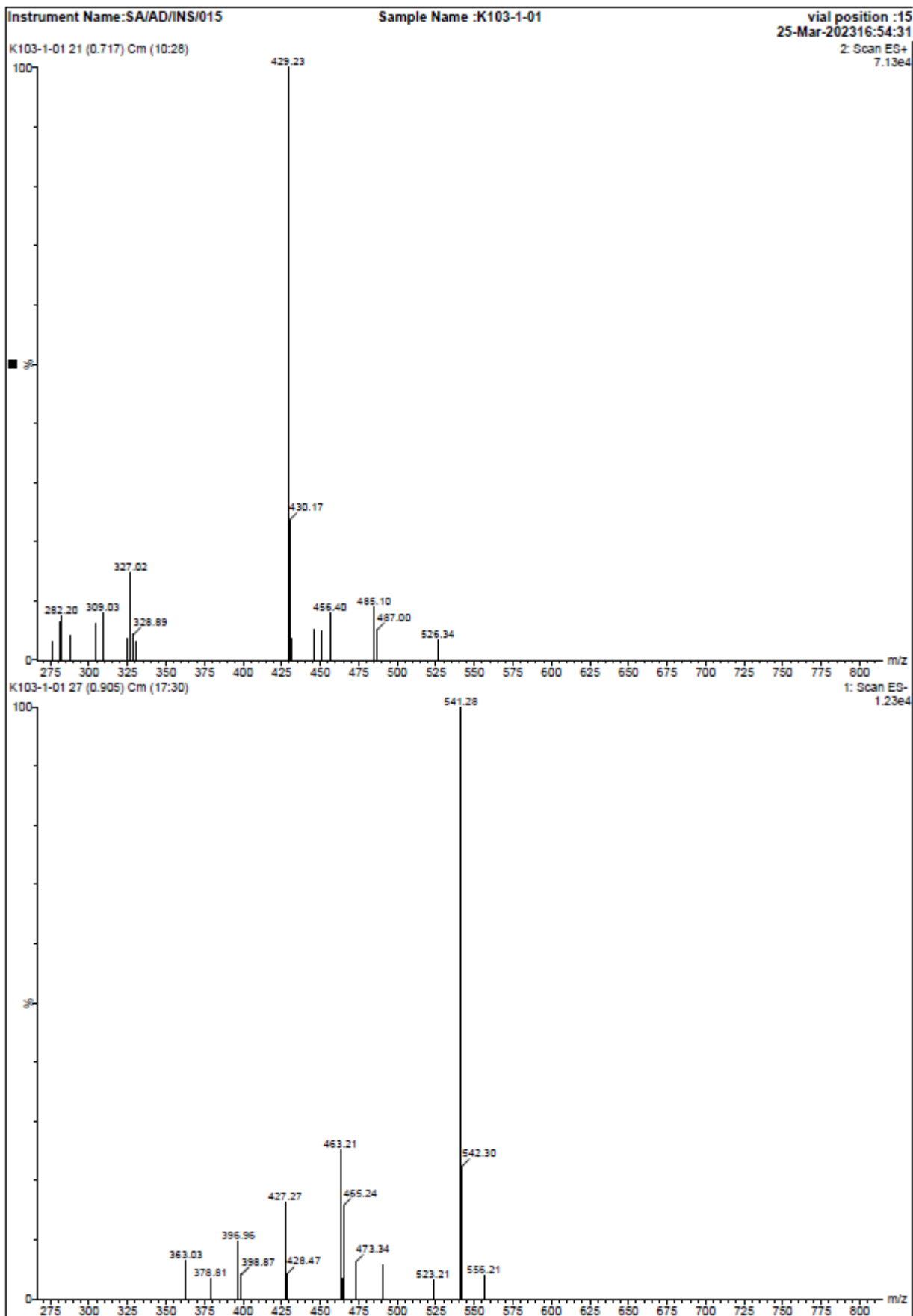
## Mass spectra:

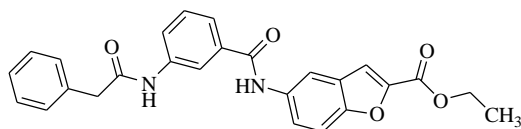
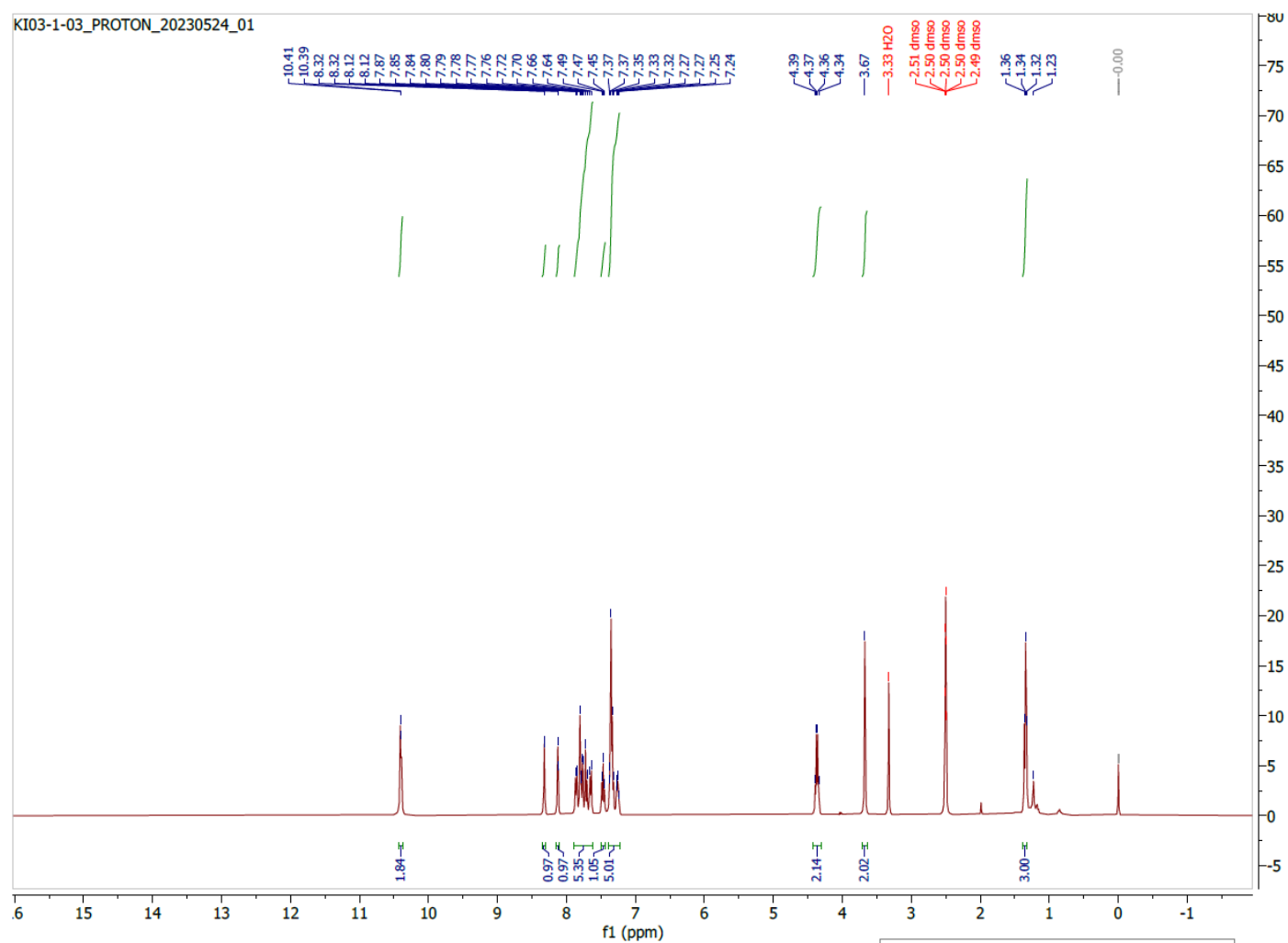


## Ethyl 5-(3-benzamidobenzamido)benzofuran-2-carboxylate (222)

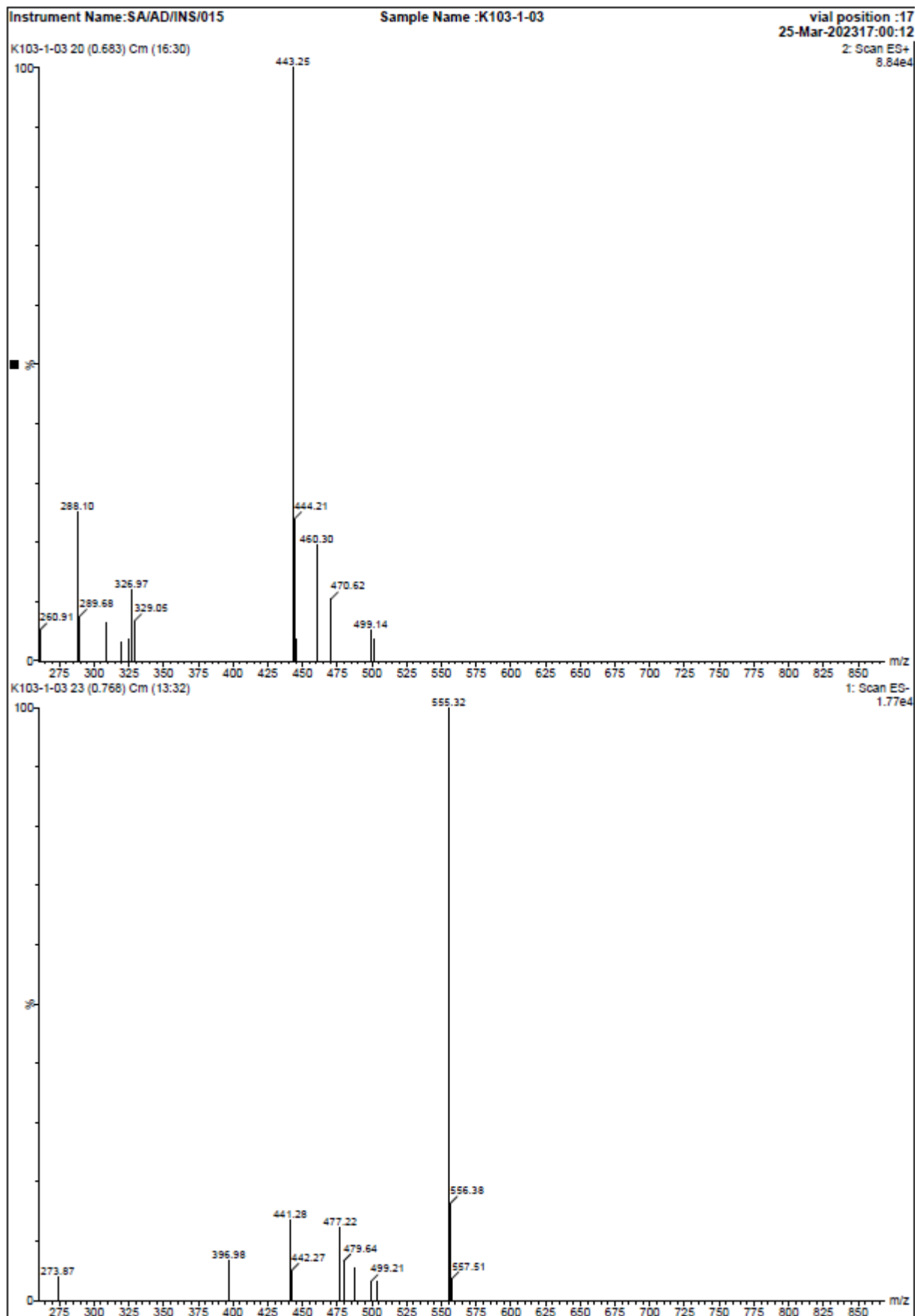
<sup>1</sup>H NMR spectra:

## Mass spectra:

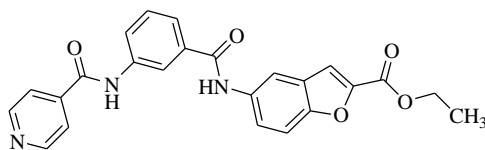


3-(2-phenylacetamido)-*N*-(2-propionylbenzofuran-5-yl)benzamide (223)<sup>1</sup>H NMR spectra:

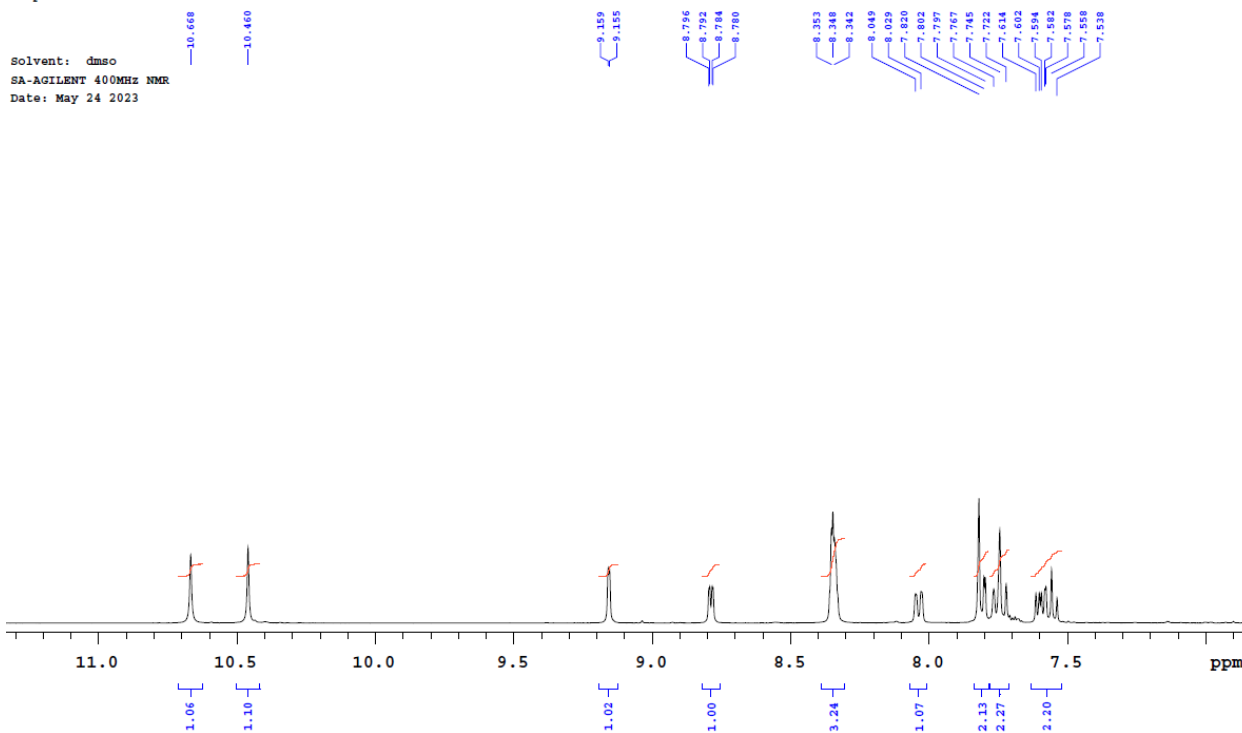
## Mass spectra:



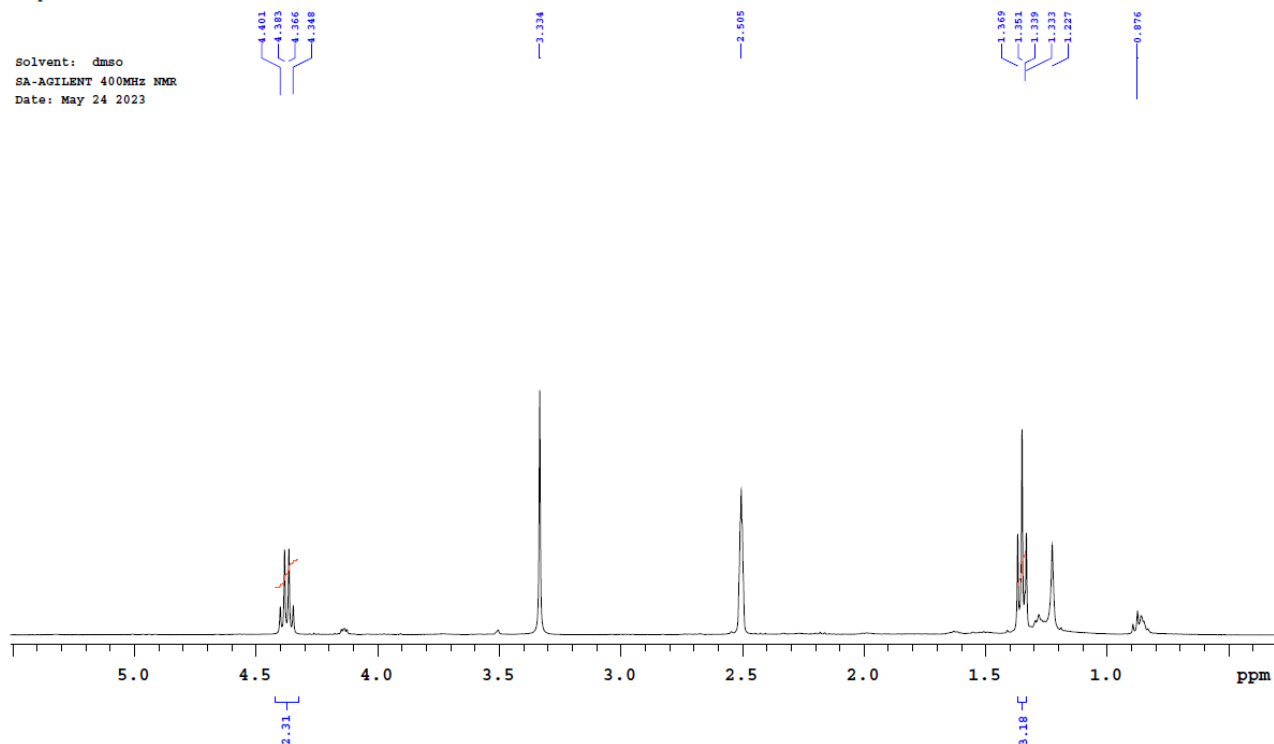
## Ethyl 5-(3-(nicotinamido)benzamido)benzofuran-2-carboxylate (224)

<sup>1</sup>H NMR spectra:

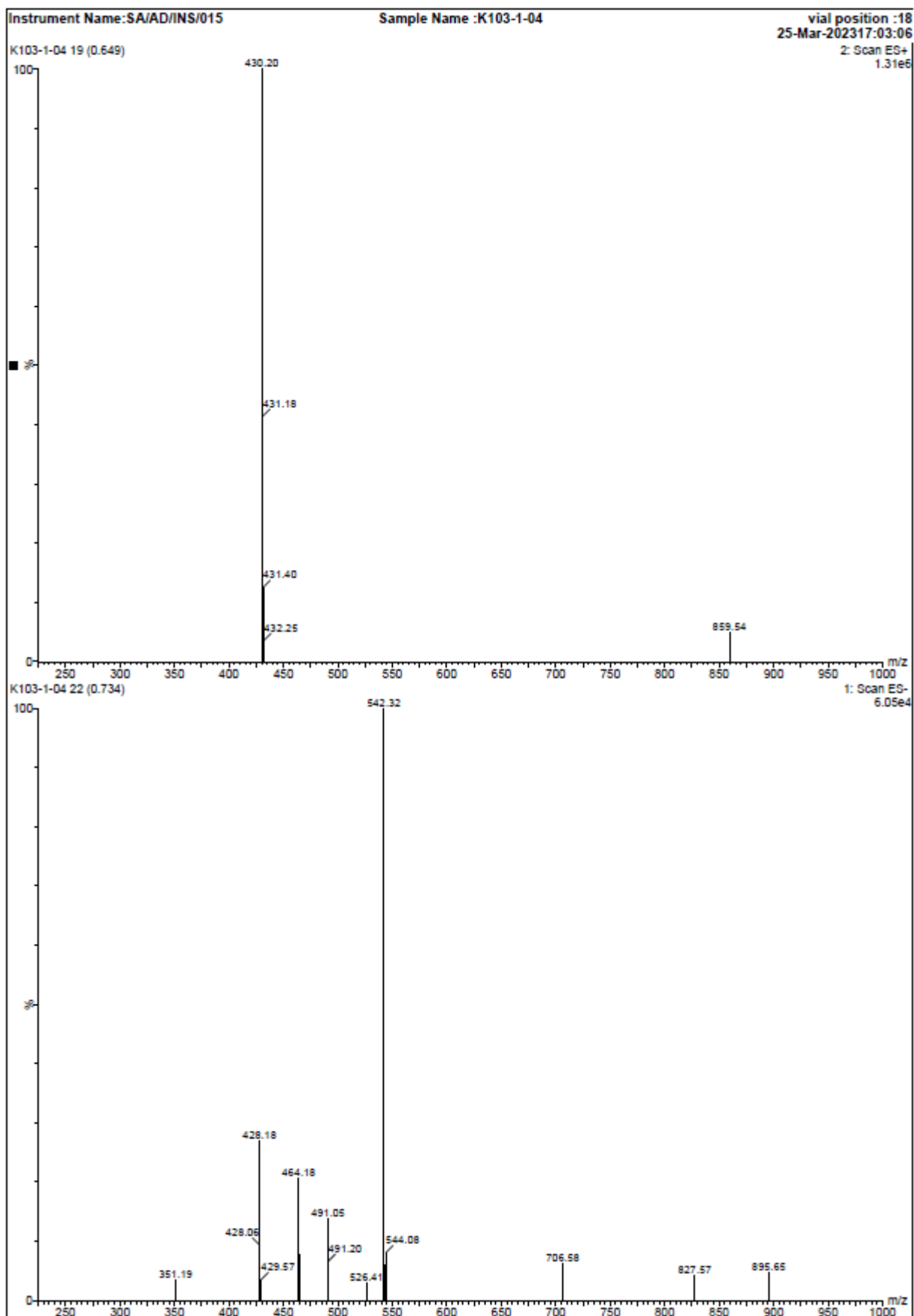
Sample Code: KI03-1-04

Solvent: dmsc  
SA-AGILENT 400MHz NMR  
Date: May 24 2023

Sample Code: KI03-1-04

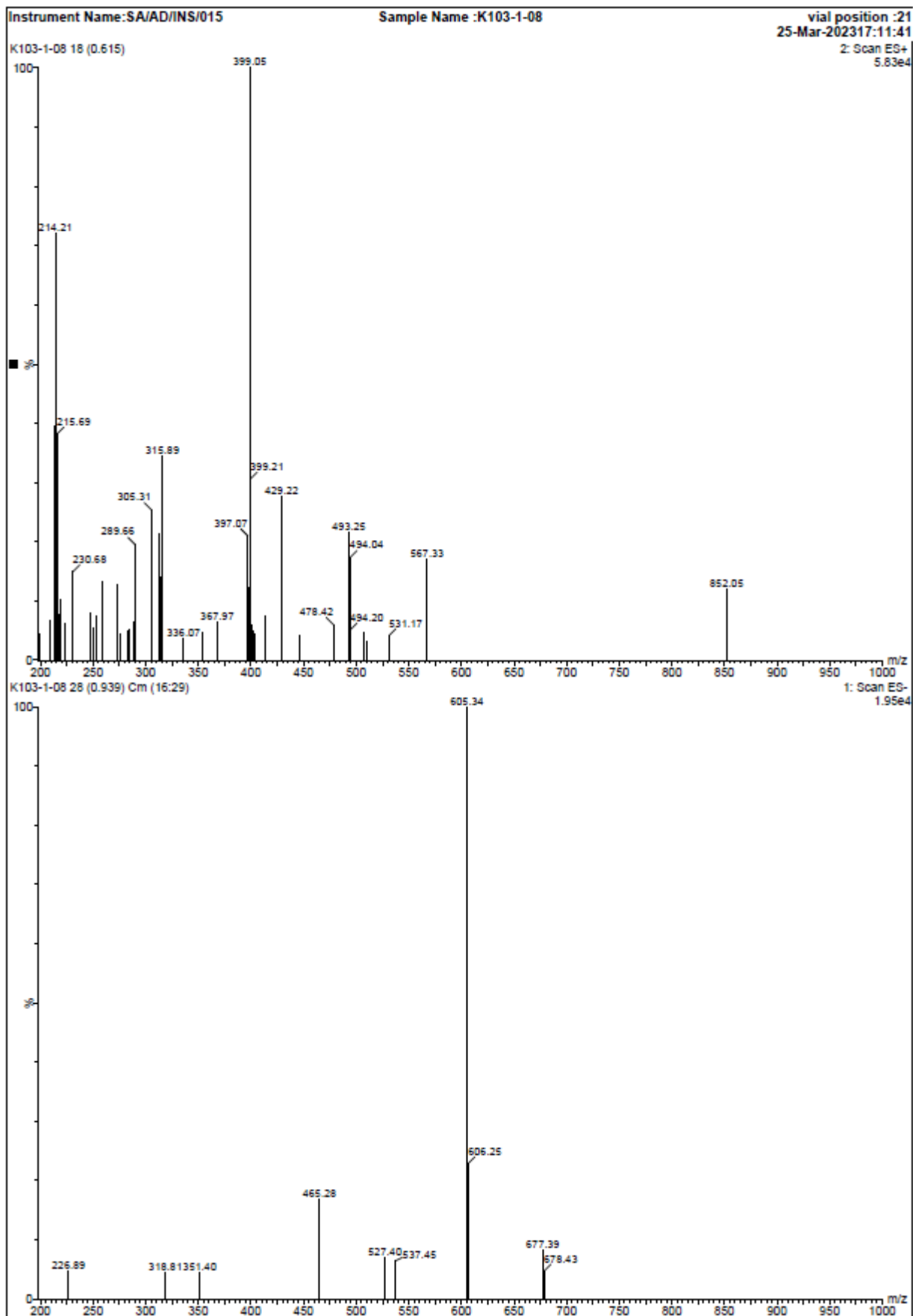
Solvent: dmsc  
SA-AGILENT 400MHz NMR  
Date: May 24 2023

## Mass spectra:

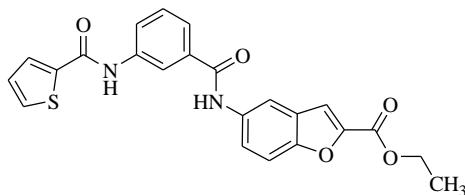
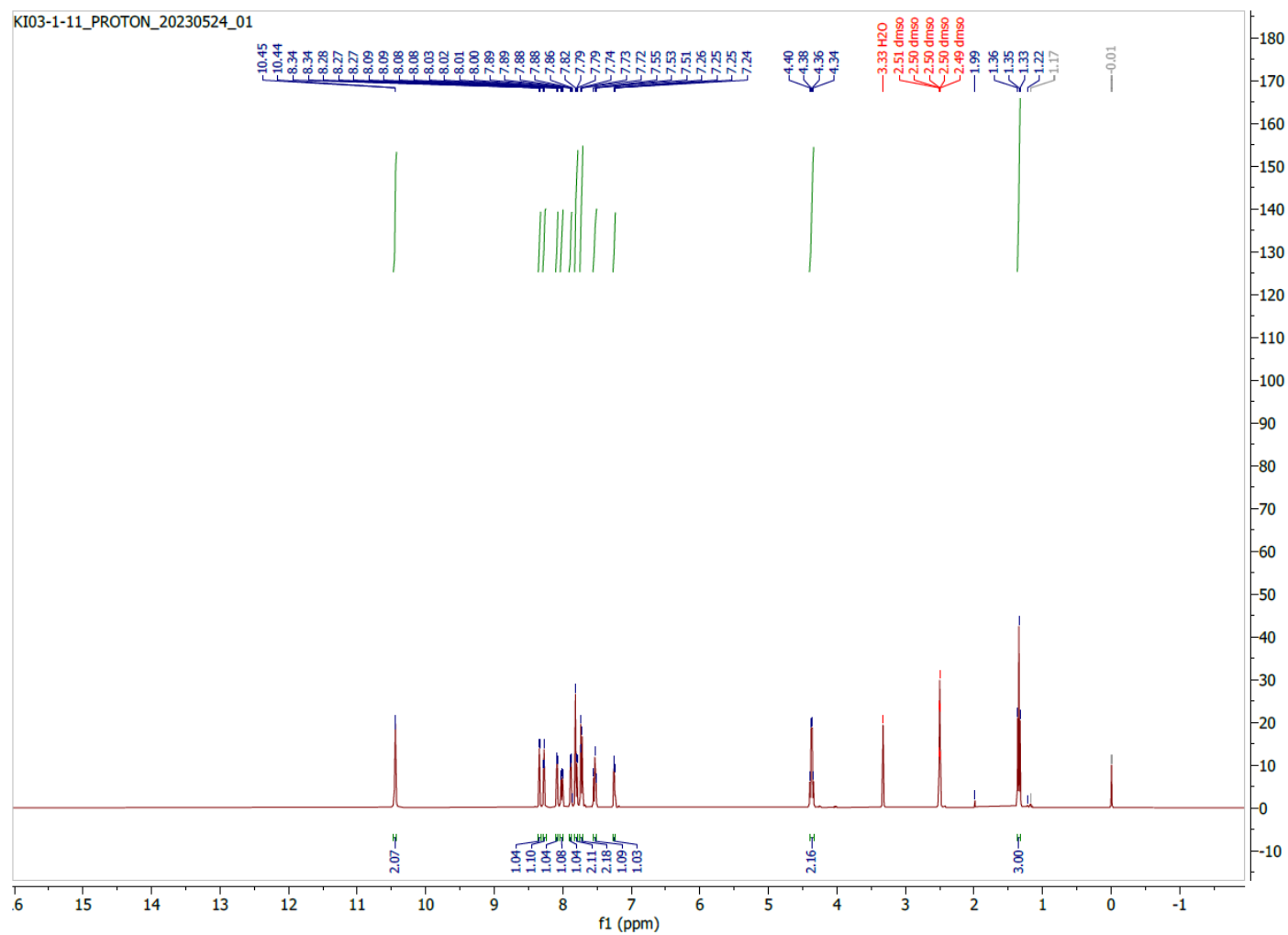




## Mass spectra:



## Ethyl 5-(3-(thiophene-2-carboxamido)benzamido)benzofuran-2-carboxylate (226)

<sup>1</sup>H NMR spectra:

## Mass spectra:

