

Sample Name	Sample38	Position	P1-E2	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	TD-2T4.d	ACQ Method	chen-ms.m	Comment		Acquired Time	11/23/2016 10:24:59 PM

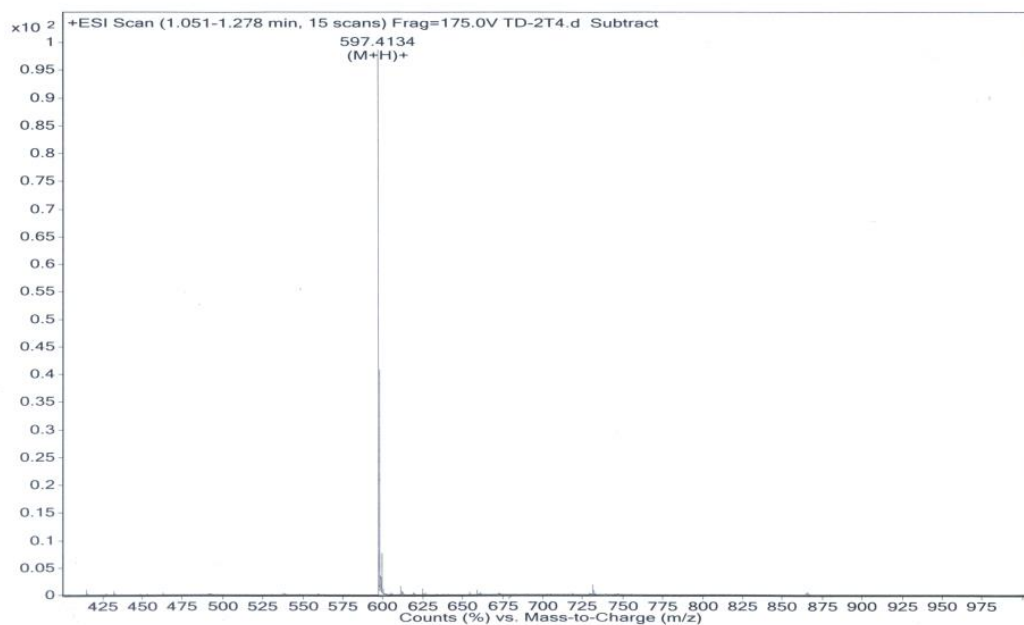


Figure S1. HRMS of compound **6a**

Sample Name	Sample37	Position	P1-E1	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	TD-3T4.d	ACQ Method	chen-ms.m	Comment		Acquired Time	11/23/2016 10:18:10 PM

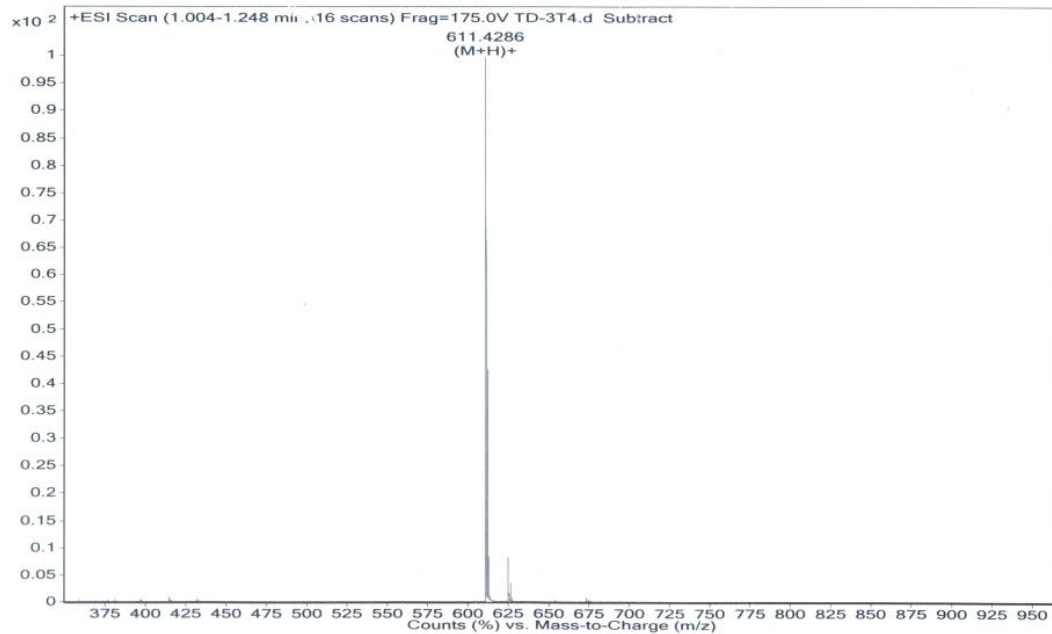


Figure S2. HRMS of compound **6b**

Sample Name	Sample36	Position	P1-D9	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	TD-4T4.d	ACQ Method	chen-ms.m	Comment		Acquired Time	11/23/2016 10:12:05 PM

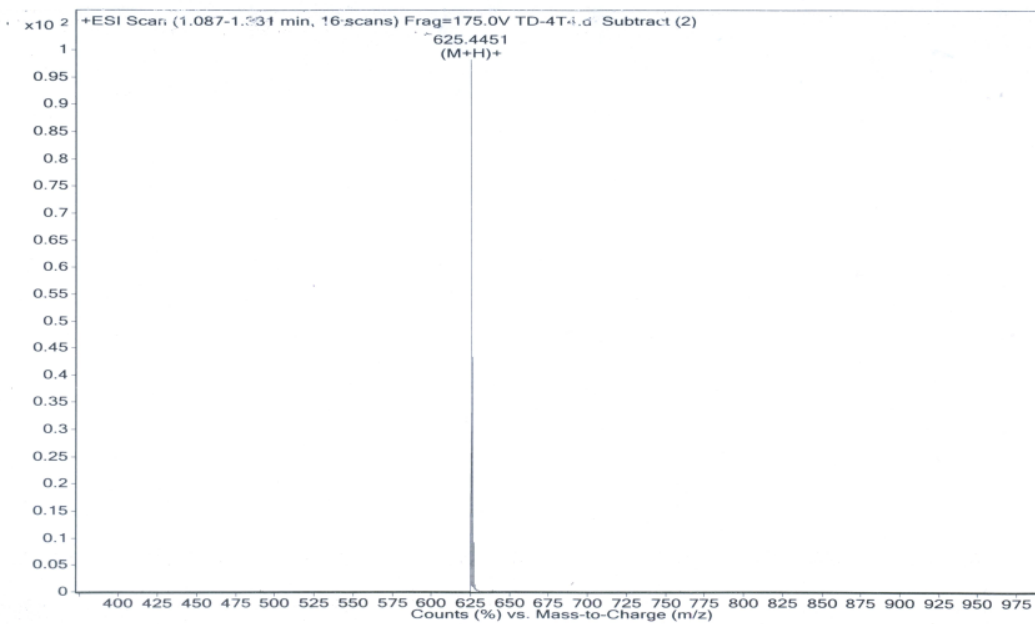


Figure S3. HRMS of compound **6c**

Varian ProMALDI  
File: L6-3(2)\_MALDI.trans

Mode: Positive Date: 24-JUN-2016  
Scans: 1 Time: 14:42:53  
Scale: 1.8276

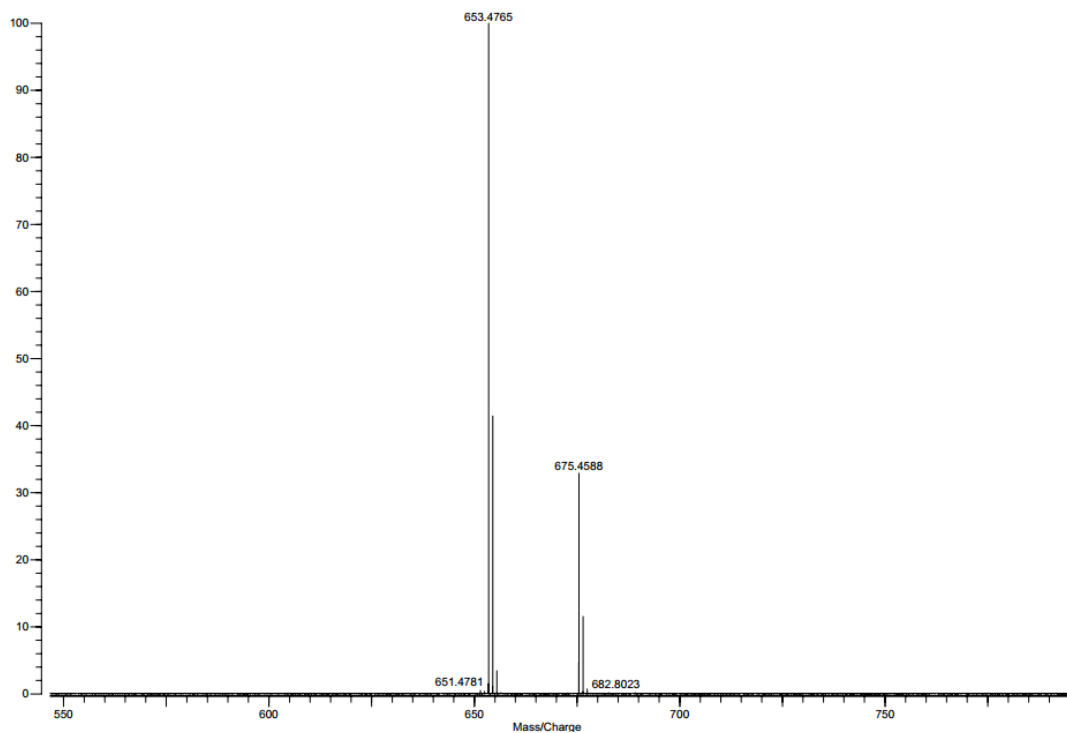


Figure S4. HRMS of compound **6d**

Sample Name	Sample35	Position	P1-D8	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	TD-8T4.d	ACQ Method	chen-ms.m	Comment		Acquired Time	11/23/2016 10:05:29 PM

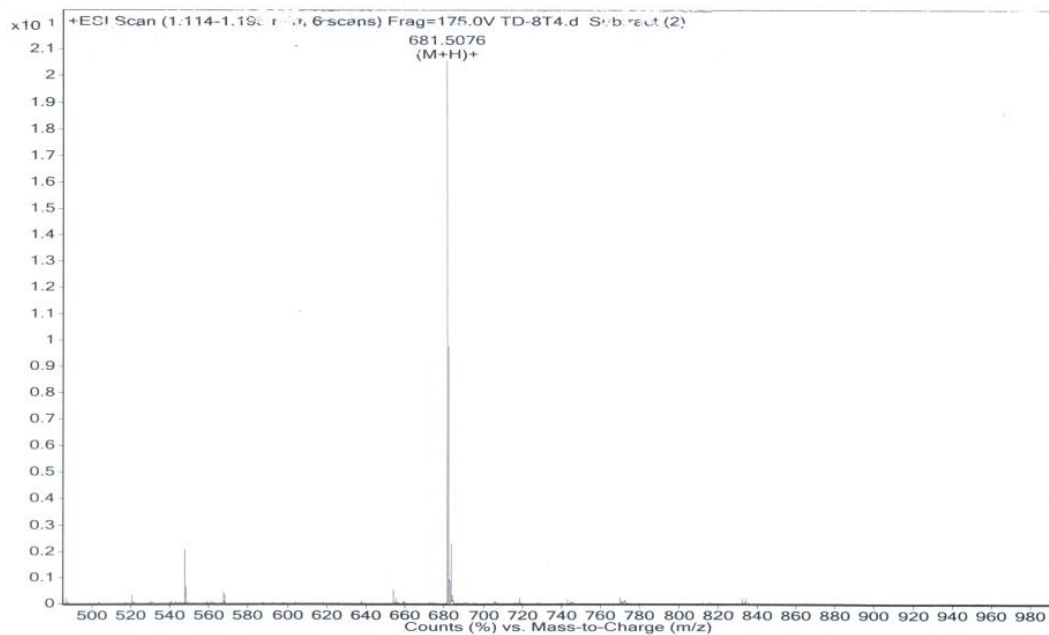


Figure S5. HRMS of compound **6e**

Sample Name	Sample18	Position	P1-B9	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	10T4.d	ACQ Method	chen-ms.m	Comment		Acquired Time	12/13/2016 1:42:42 AM

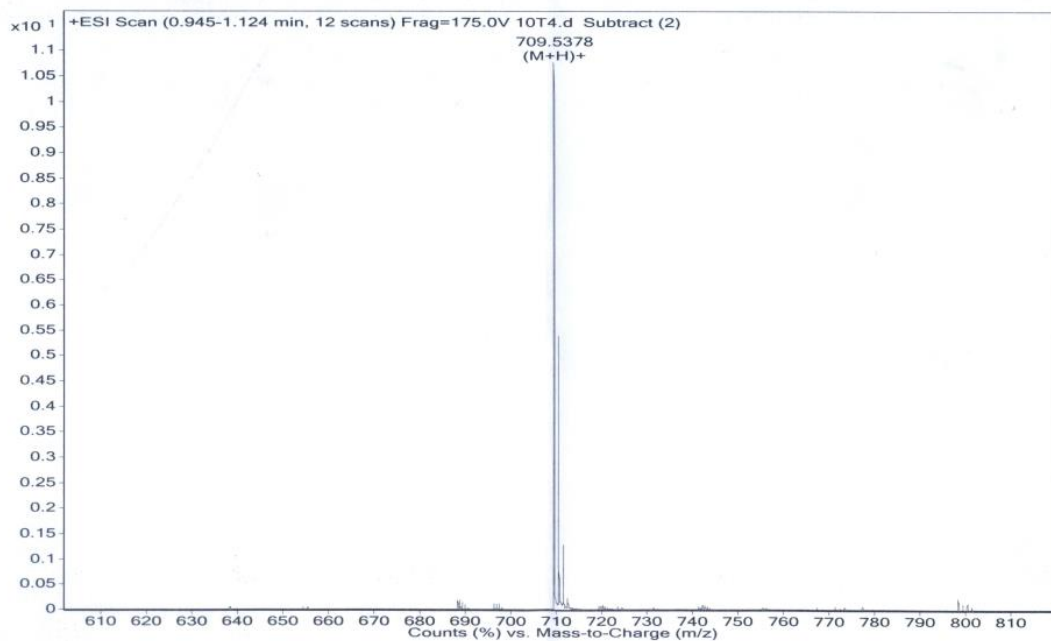


Figure S6. HRMS of compound **6f**

Sample Name	Sample19	Position	P1-C1	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	12T4.d	ACQ Method	chen-rs.m	Comment		Acquired Time	12/13/2016 1:48:23 AM

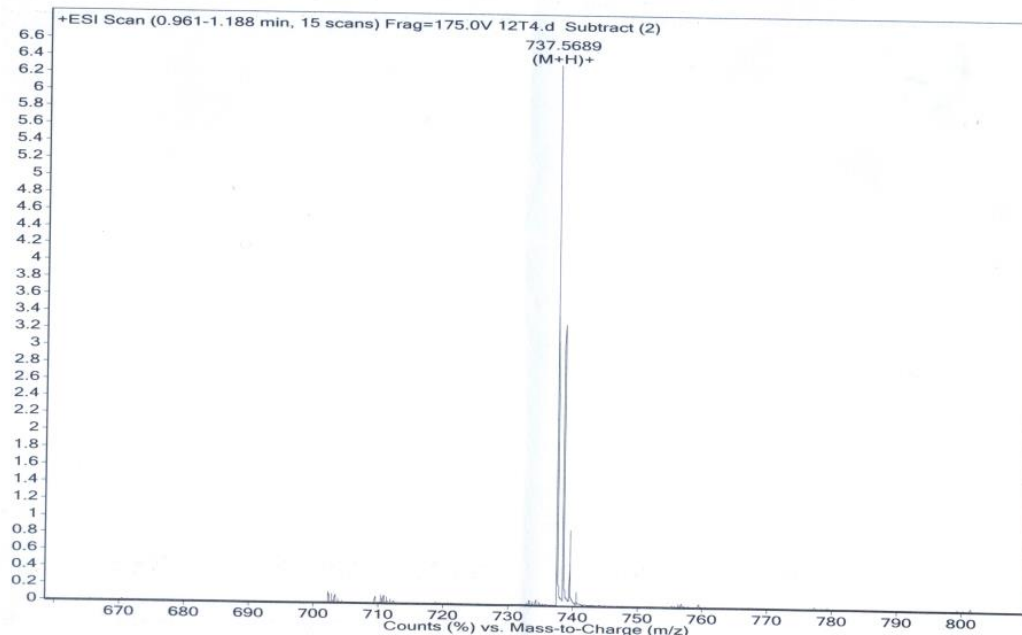


Figure S7. HRMS of compound **6g**

Sample Name	Sample39	Position	P1-E3	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	TD-117.d	ACQ Method	chen-rs.m	Comment		Acquired Time	11/23/2016 10:32:13 PM

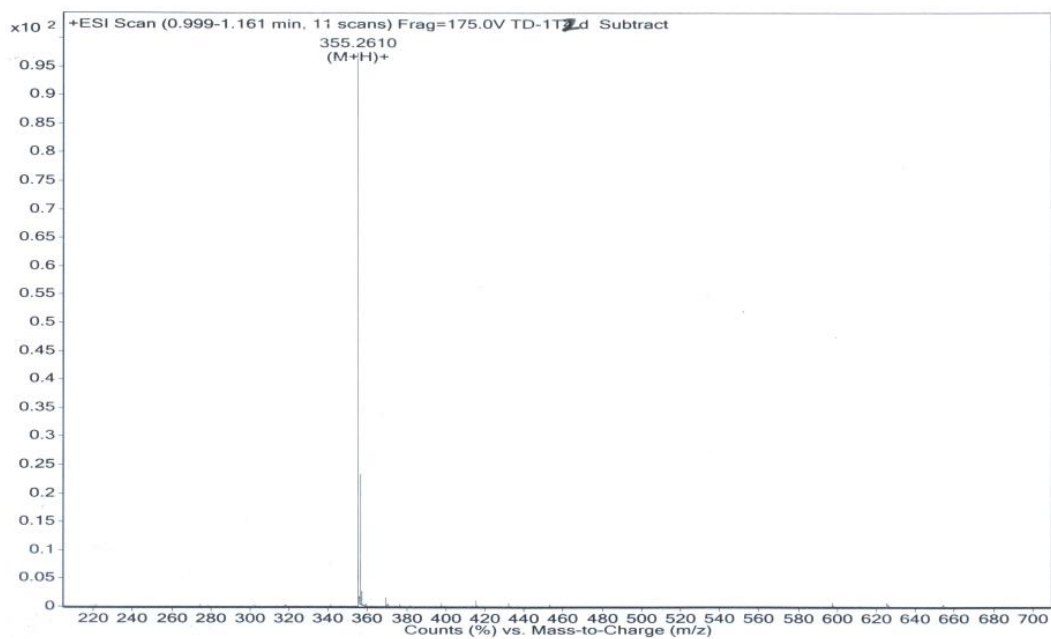


Figure S8. HRMS of compound **6h**

Sample Name	Sample1	Position	P1-B1	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	2-T2.d	ACQ Method	chen-ms.m	Comment		Acquired Time	12/6/2016 6:32:49 PM

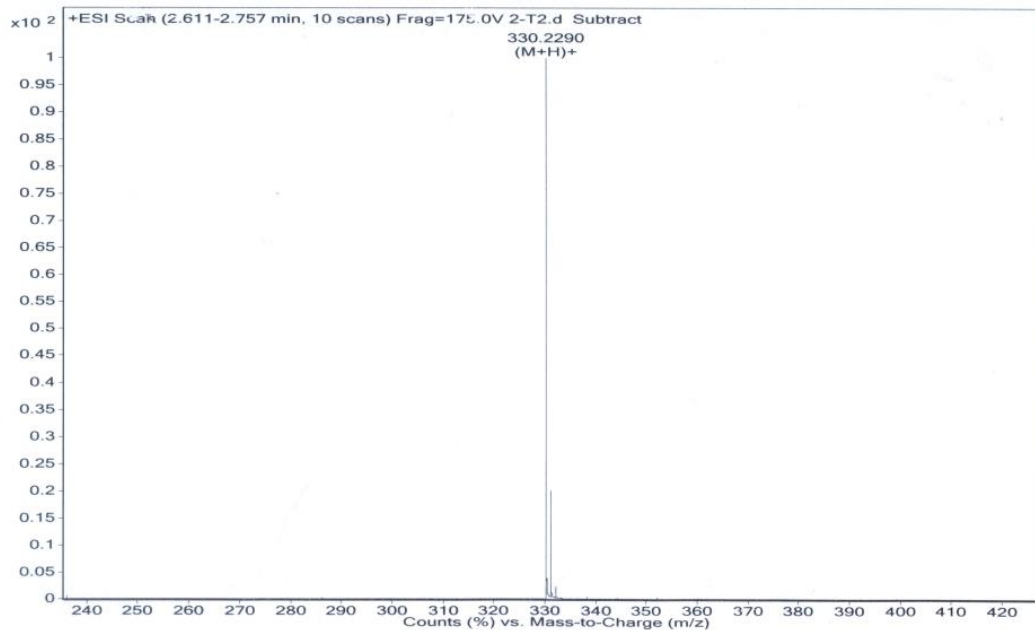


Figure S9. HRMS of compound **6i**

Sample Name	Sample8	Position	P1-A9	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	3-O-T2.d	ACQ Method	chen-ms.m	Comment		Acquired Time	12/6/2016 6:27:09 PM

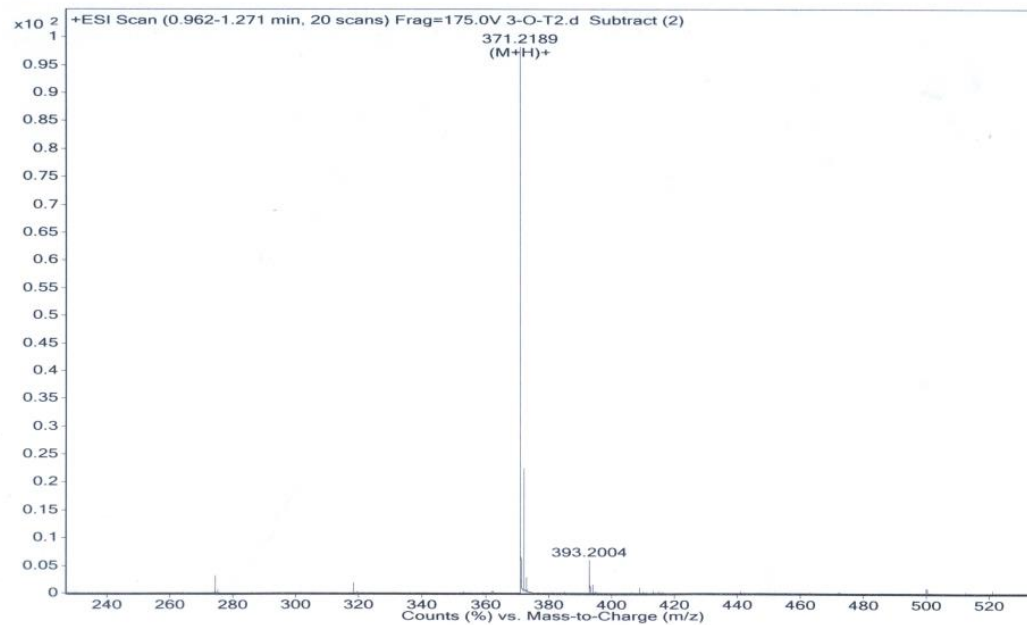


Figure S10. HRMS of compound **8a**

Sampl. Name	Sample7	Position	P1-A6	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	4-O-T2.d	ACQ Method	chen-ms.m	Comment		Acquired Time	12/6/2016 6:21:28 PM

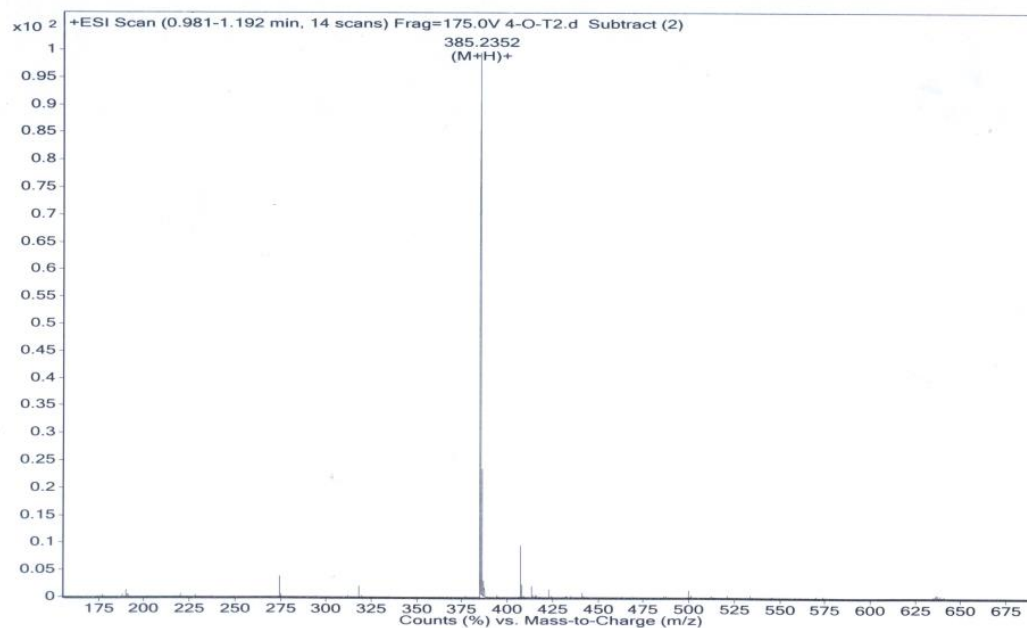


Figure S11. HRMS of compound **8b**

Sampl. Name	Sample7	Position	P1-77	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	6-O-T2.d	ACQ Method	chen-ms.m	Comment		Acquired Time	12/6/2016 6:15:46 PM

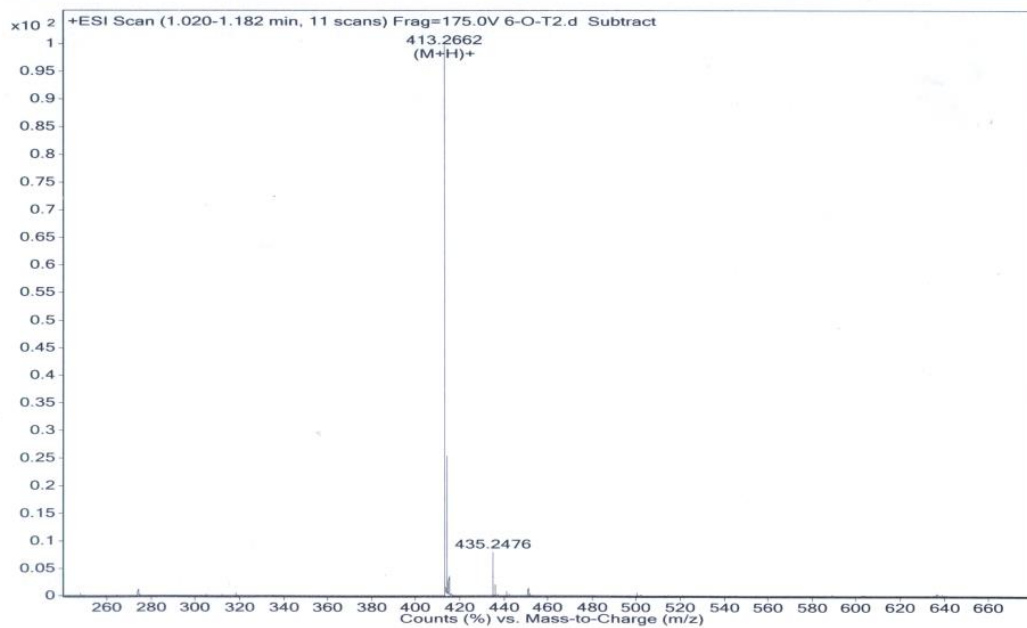


Figure S12. HRMS of compound **8c**

Sample Name	Sample6	Position	P1-A6	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	8-O-T2.d	ACQ Method	chen-ms.m	Comment		Acquired Time	12/6/2016 6:10:05 PM

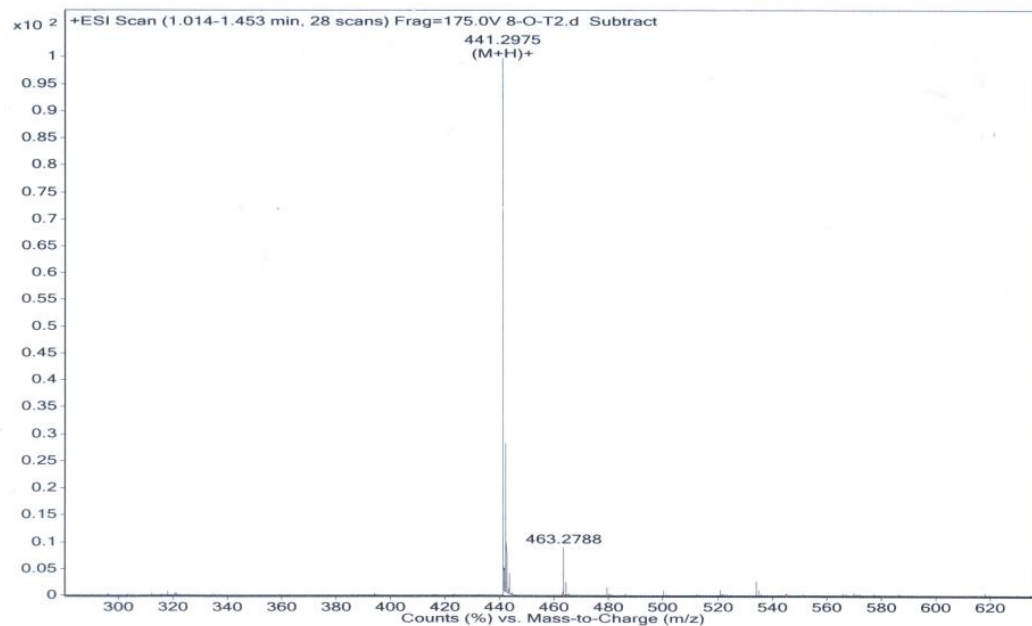


Figure S13. HRMS of compound **8d**

Sample Name	Sample20	Position	P1-C2	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	10-OT2.d	ACQ Method	chen-ms.m	Comment		Acquired Time	12/13/2016 1:54:03 AM

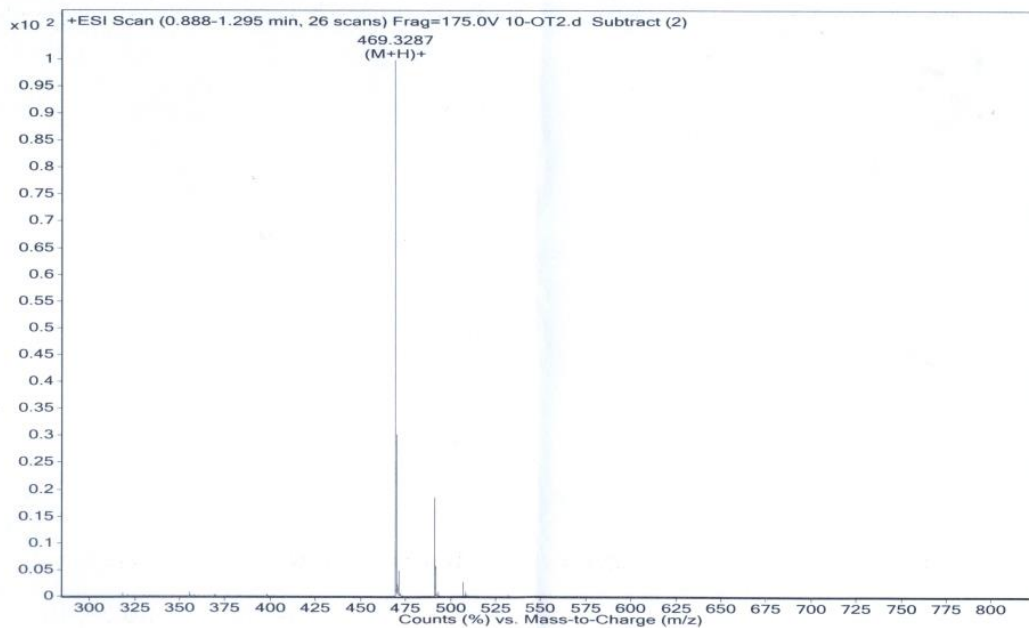


Figure S14. HRMS of compound **8e**

Sample Name	Sample21	Position	P1-C3	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	12-O-T2.d	ACQ Method	chen-ms.m	Comment		Acquired Time	12/13/2016 1:59:44 AM

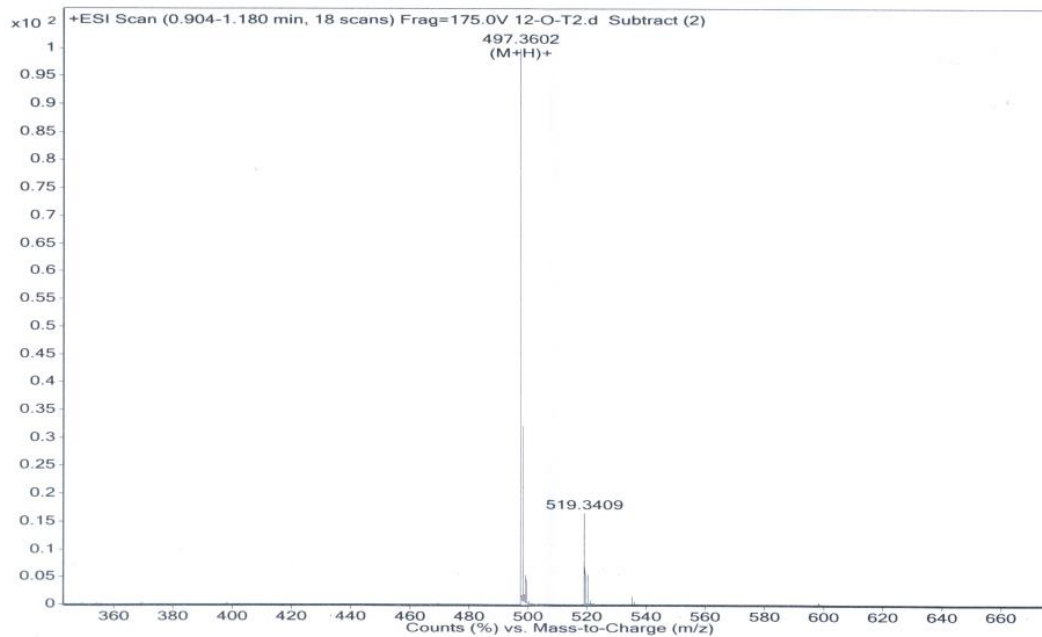


Figure S15. HRMS of compound **8f**

Sample Name	Sample9	Position	P1-A9	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	LS-L2.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	6/11/2018 5:19:36

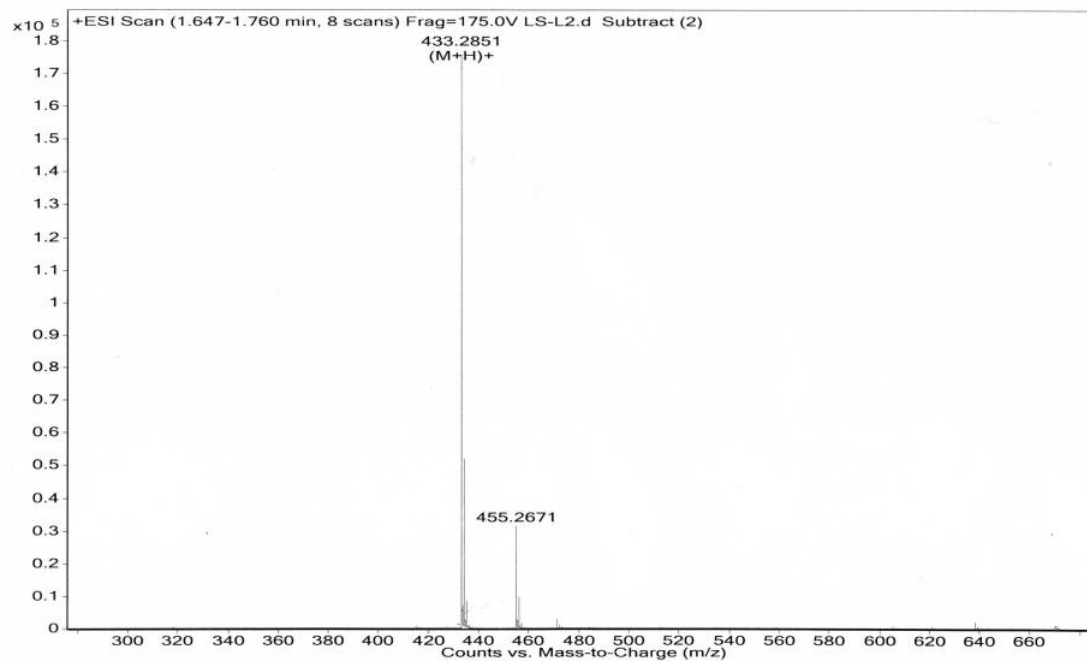


Figure S16. HRMS of compound **9e**



Sample Name	Sample8	Position	P1-A8	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	LS-L1.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	6/11/2018 5:13:47

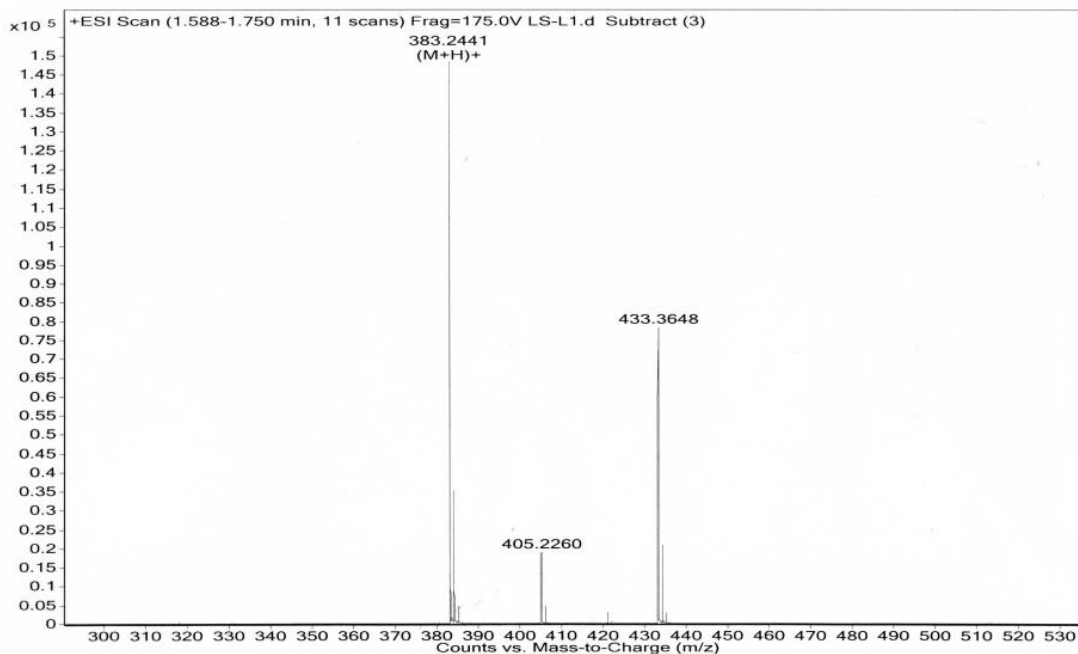


Figure S17. HRMS of compound **10e**

Sample Name	Sample5	Position	P1-A5	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	LS-11.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	8/28/2018 10:45:3

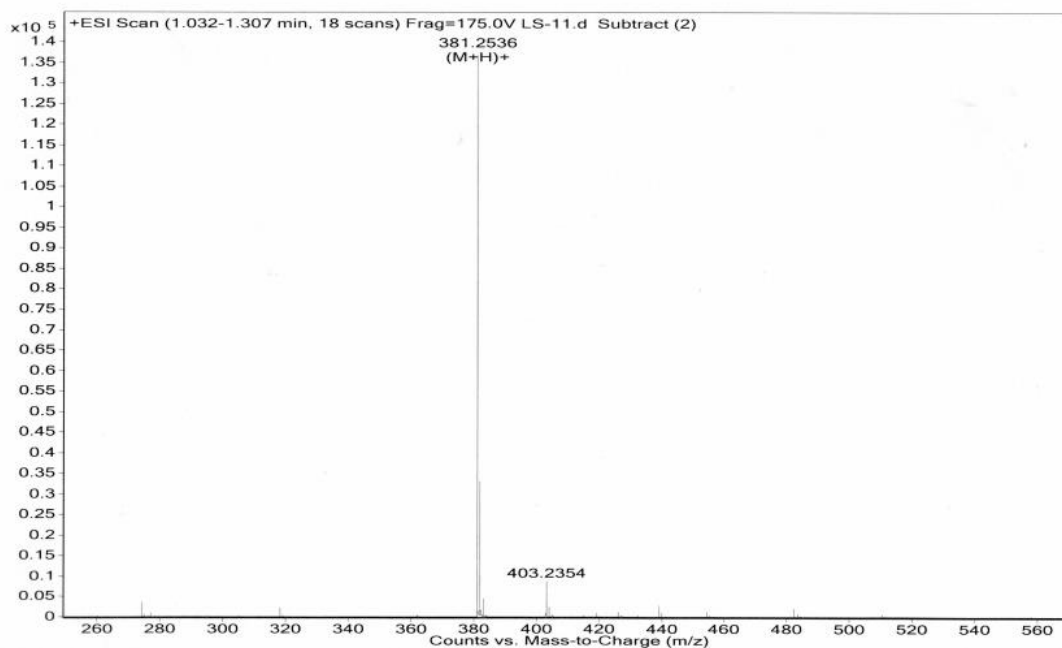


Figure S18. HRMS of compound **11e**

Sample Name	Sample6	Position	P1-A6	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	LS-12.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	8/28/2018 10:52:2

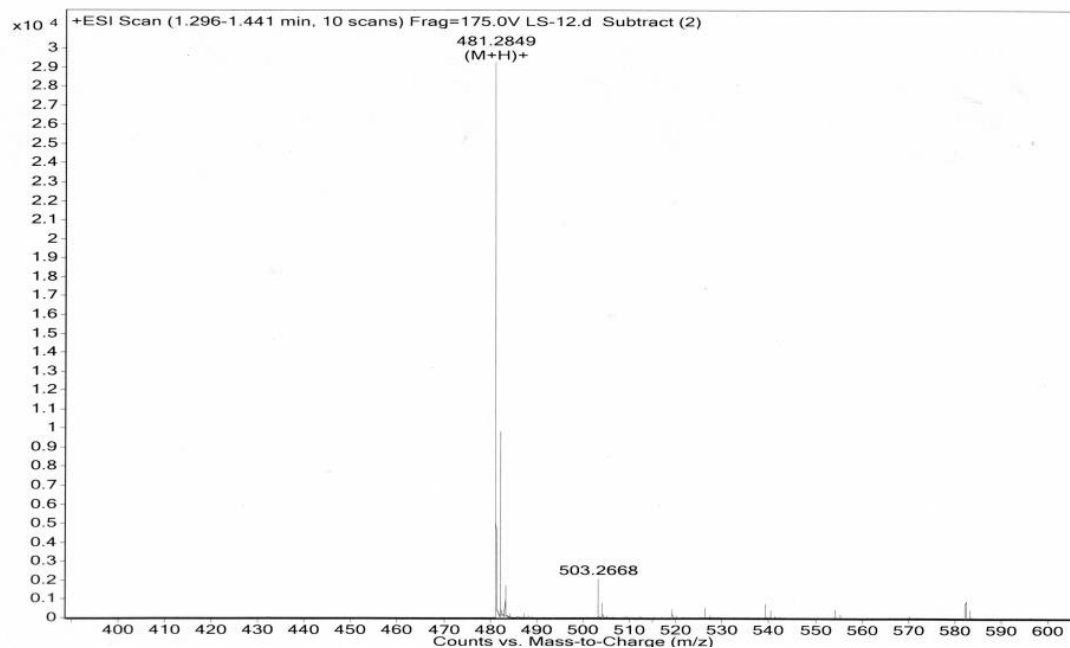


Figure S19. HRMS of compound 12e

Sample Name	Sample7	Position	P1-A7	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	LS-13.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	8/28/2018 10:59:11

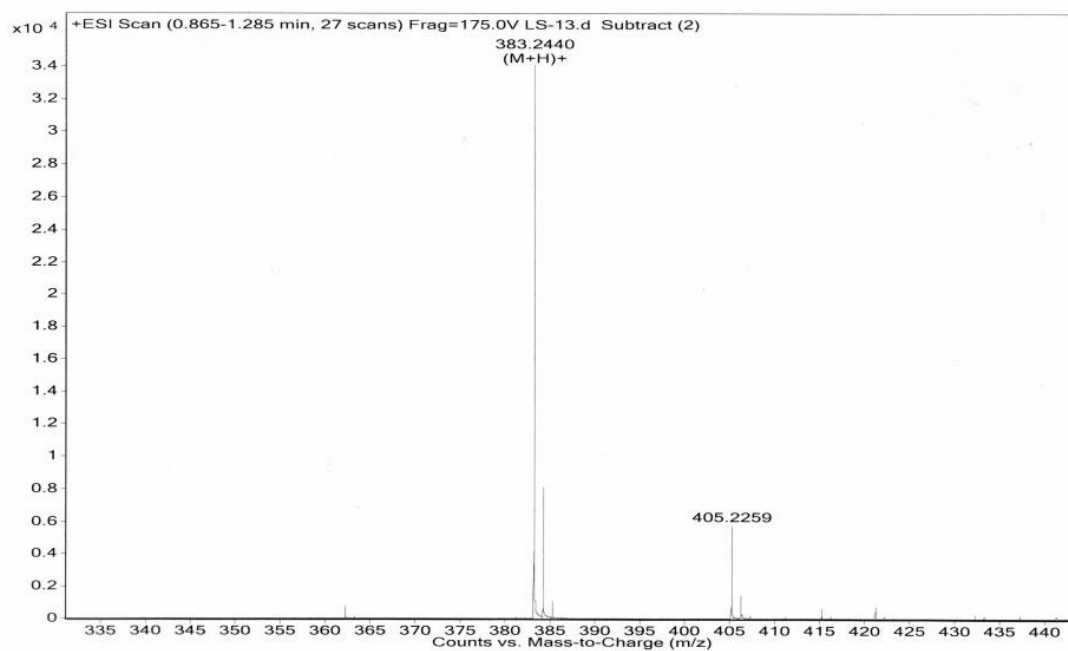


Figure S20. HRMS of compound 13e

Sample Name	Sample8	Position	P1-A8	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	LS-14.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	8/28/2018 11:06:01

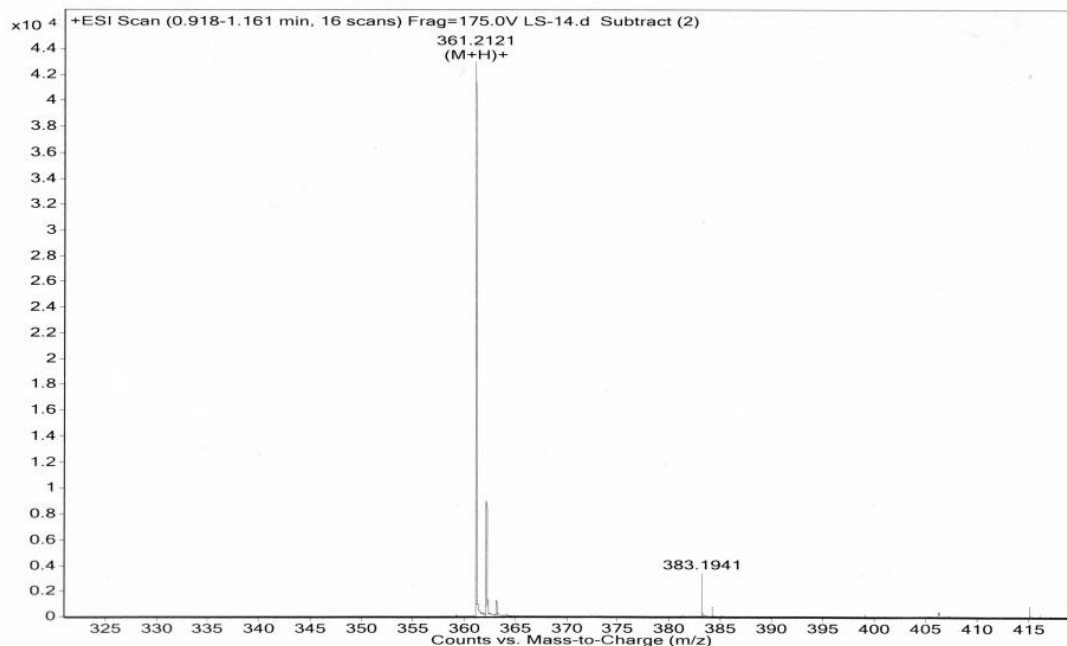


Figure S21. HRMS of compound **14e**

Sample Name	Sample9	Position	P1-A9	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	LS-15.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	8/28/2018 11:12:49 AM

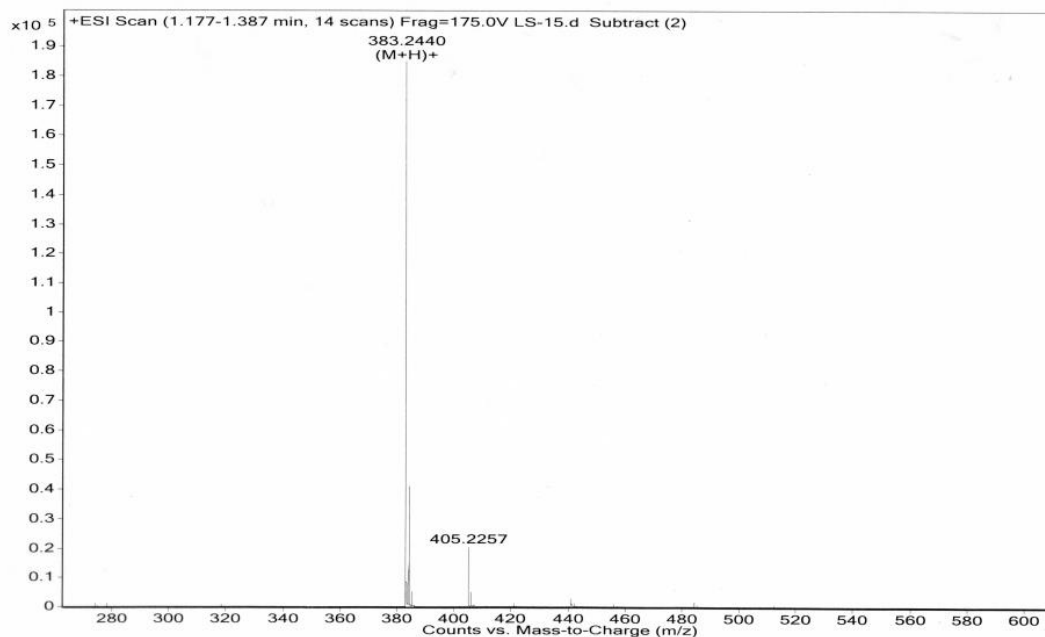


Figure S22. HRMS of compound **15e**

Sample Name	Sample10	Position	P1-B1	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	LS-16.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	8/28/2018 11:19:35 AM

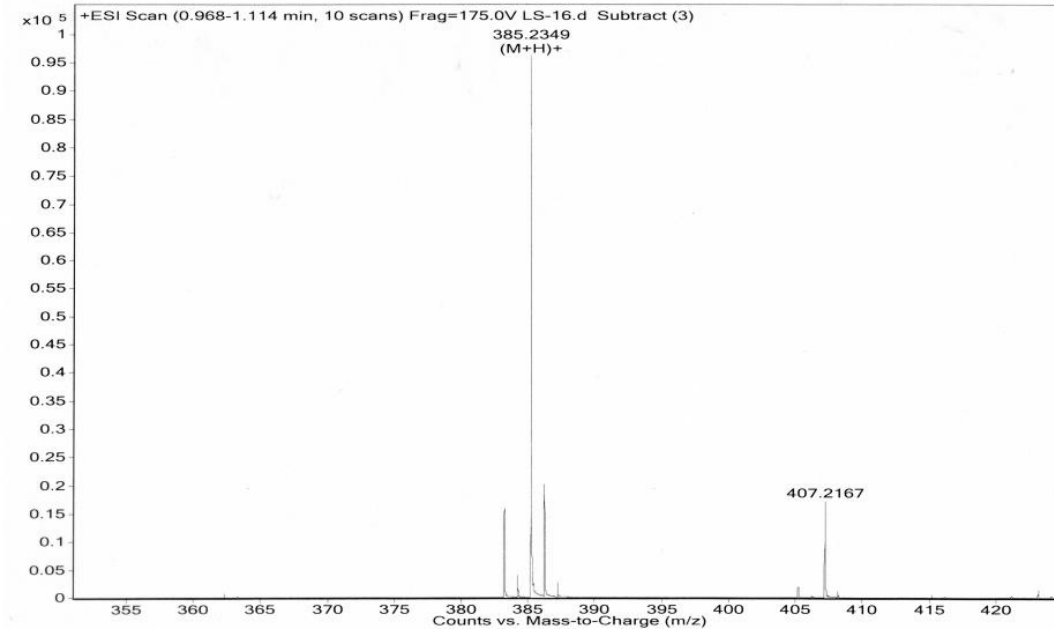


Figure S23. HRMS of compound 16e

Sample Name	Sample40	Position	P1-E4	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	N1.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/25/2018 7:32:08 PM

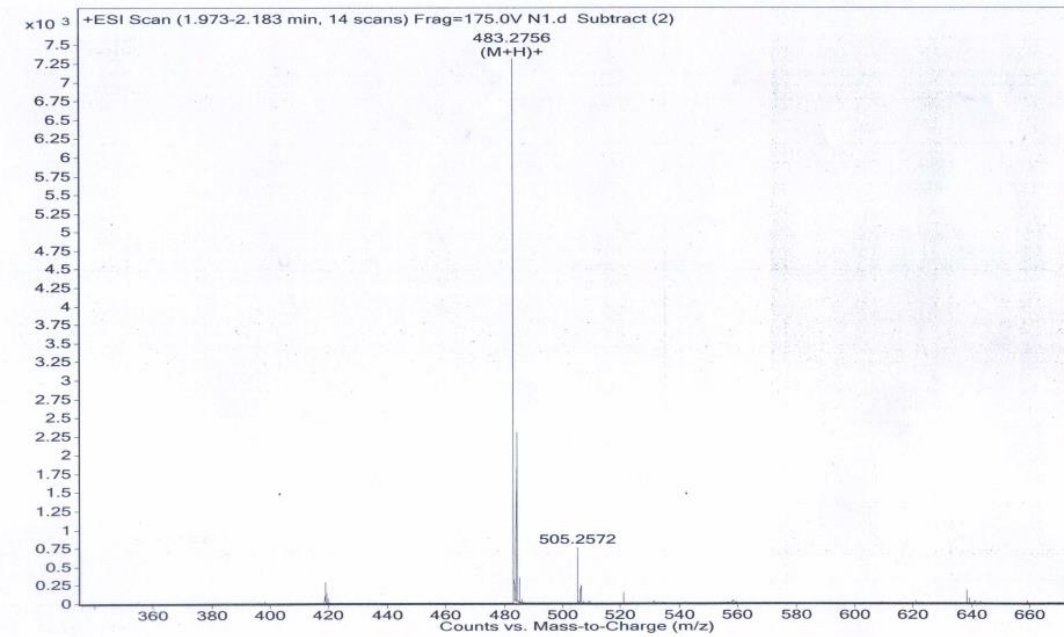


Figure S24. HRMS of compound 17e

Sample Name	Sample41	Position	P1-ES	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	N03.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/25/2018 7:38:58 PM

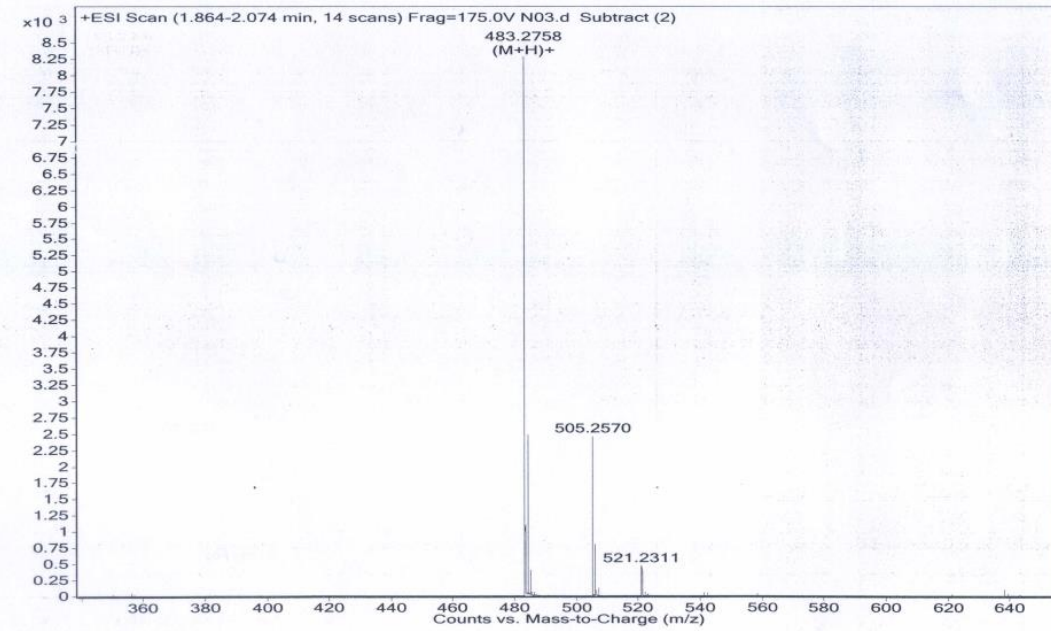


Figure S25. HRMS of compound **18e**

Varian QFT-ESI  
File: N4\_ESI.trans

Mode: Positive  
Scans: 1  
Date: 15-NOV-2018  
Time: 16:09:21  
Scale: 32.5041

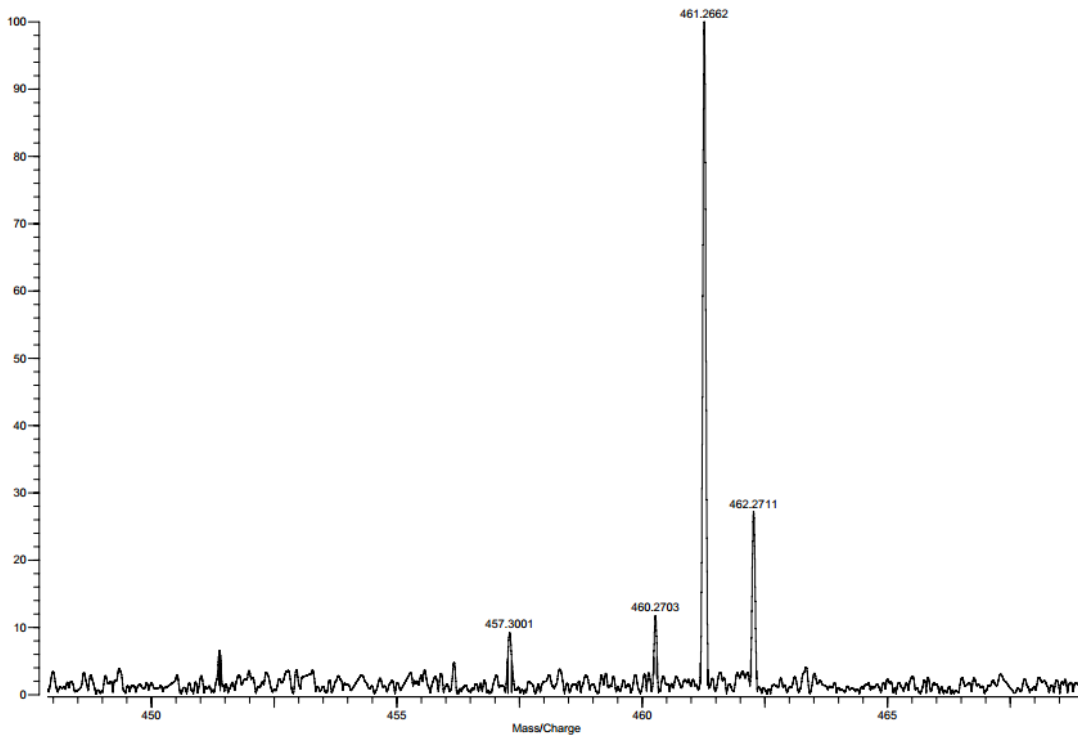


Figure S26. HRMS of compound **19e**

Sample Name	Sample42	Position	P1-E6	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	N5.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/25/2018 7:45:52 PM

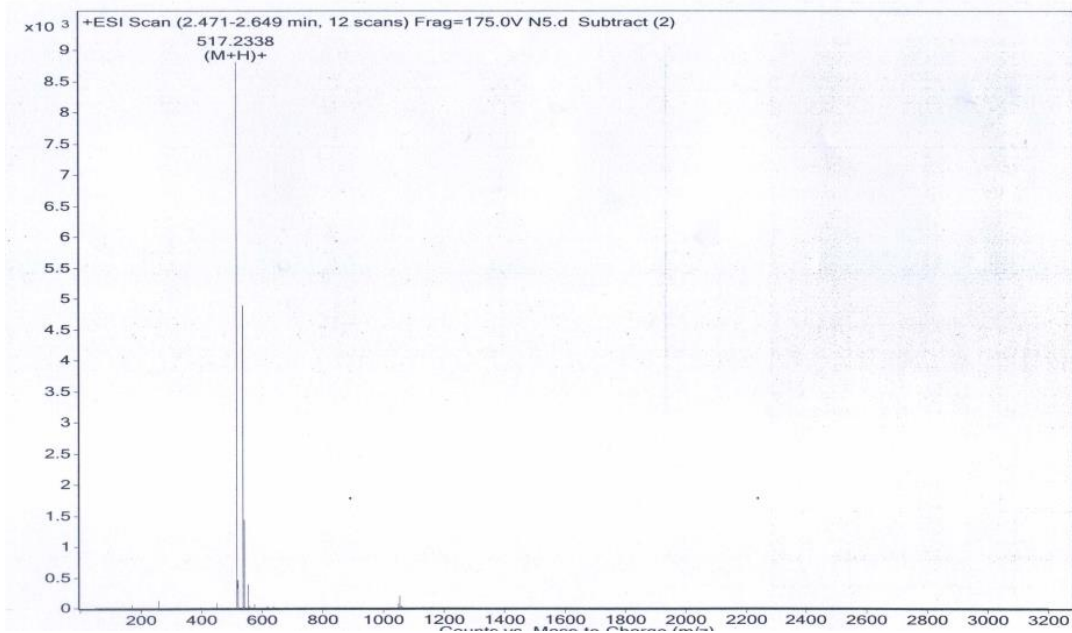


Figure S27. HRMS of compound **20e**

Sample Name	Sample43	Position	P1-E7	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	N6.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/25/2018 7:52:45 PM

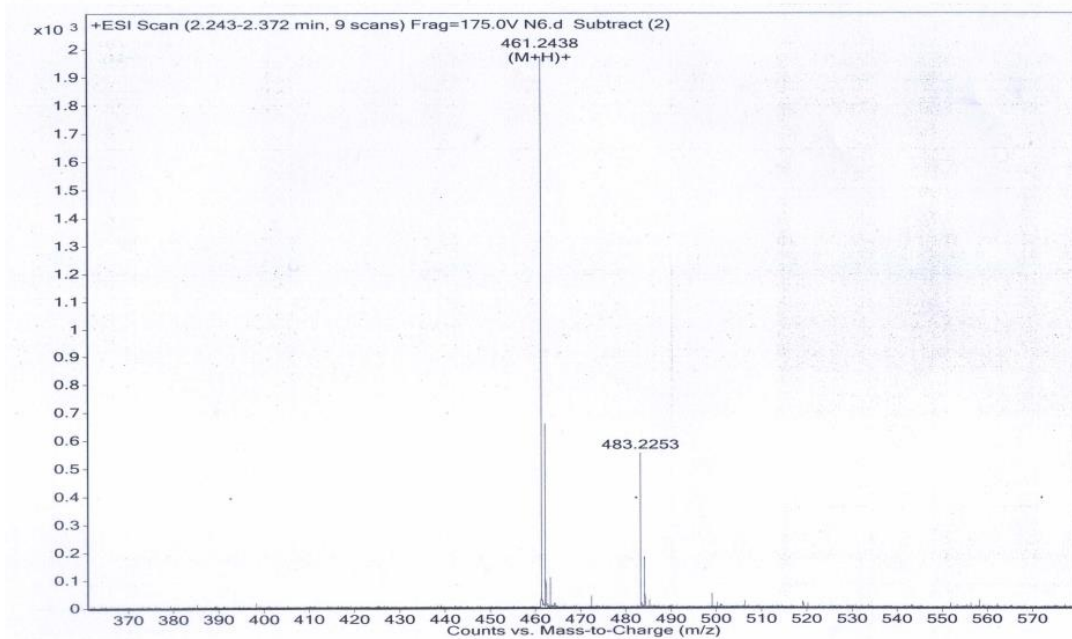


Figure S28. HRMS of compound **21e**

Sample Name	Sample44	Position	P1-E8	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	N7.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/25/2018 7:59:38 PM

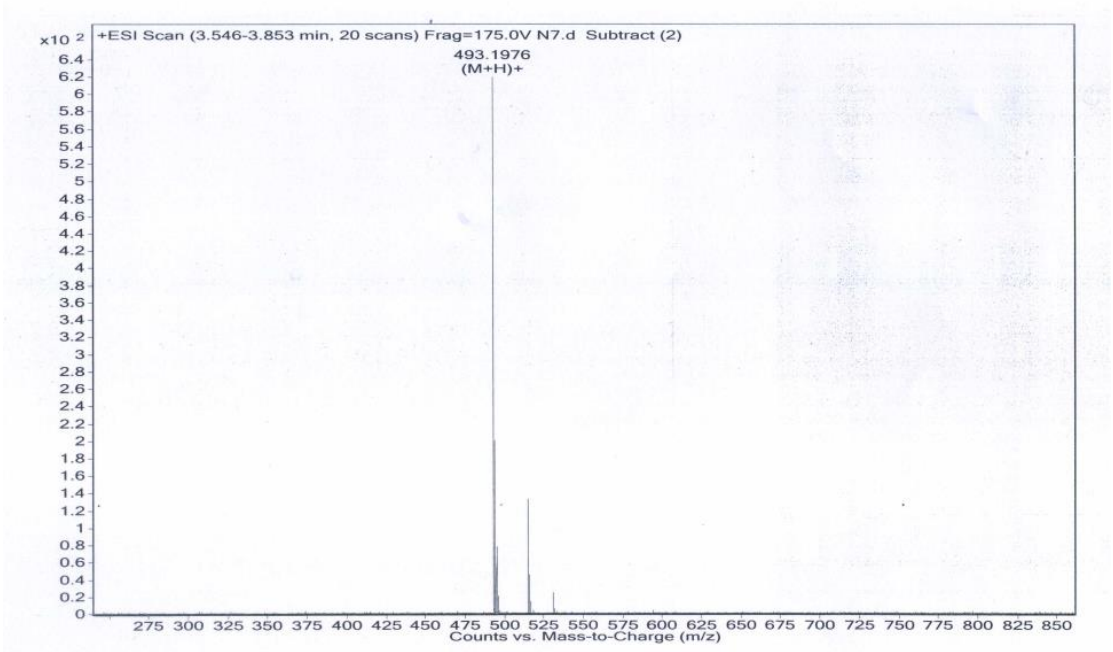


Figure S29. HRMS of compound **22e**

Sample Name	Sample45	Position	P1-E9	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	N8.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/25/2018 8:06:32 PM

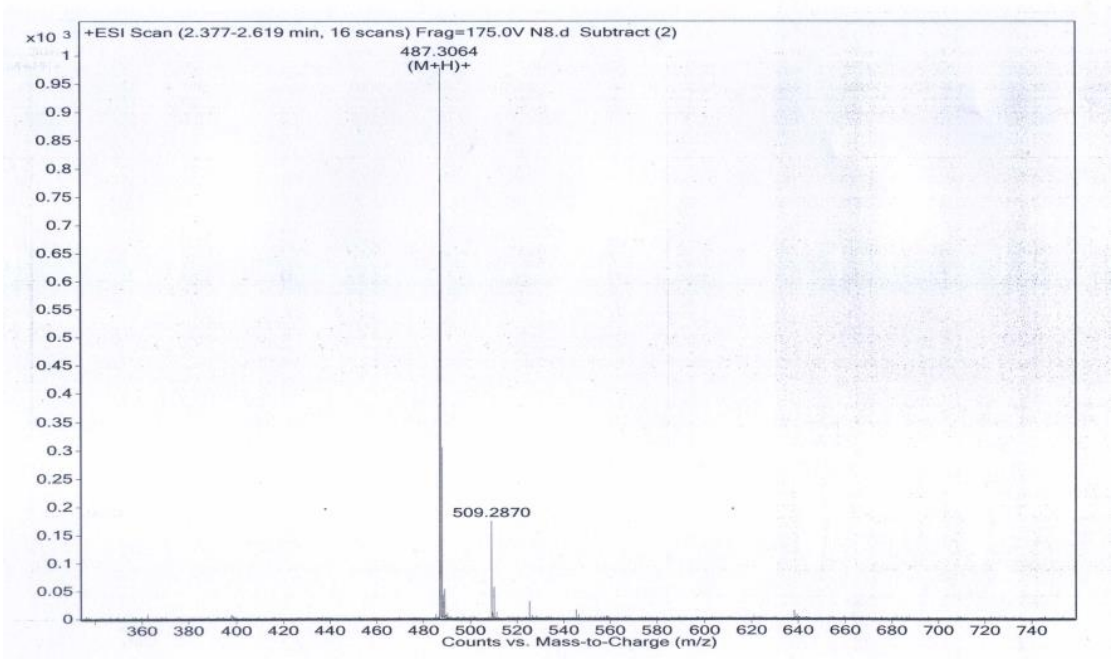


Figure S30. HRMS of compound **23e**

Sample Name	Sample46	Position	P1-F1	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	N9.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/25/2018 8:13:25 PM

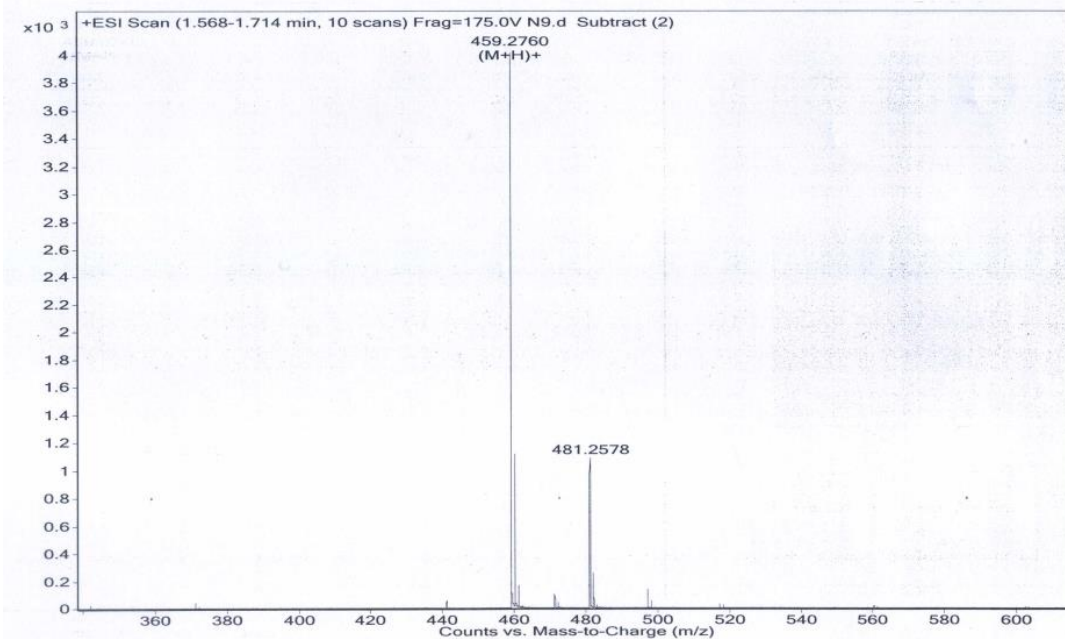


Figure S31. HRMS of compound **24e**

Sample Name	Sample12	Position	P1-C5	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	R2.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/29/2018 6:53:01 PM

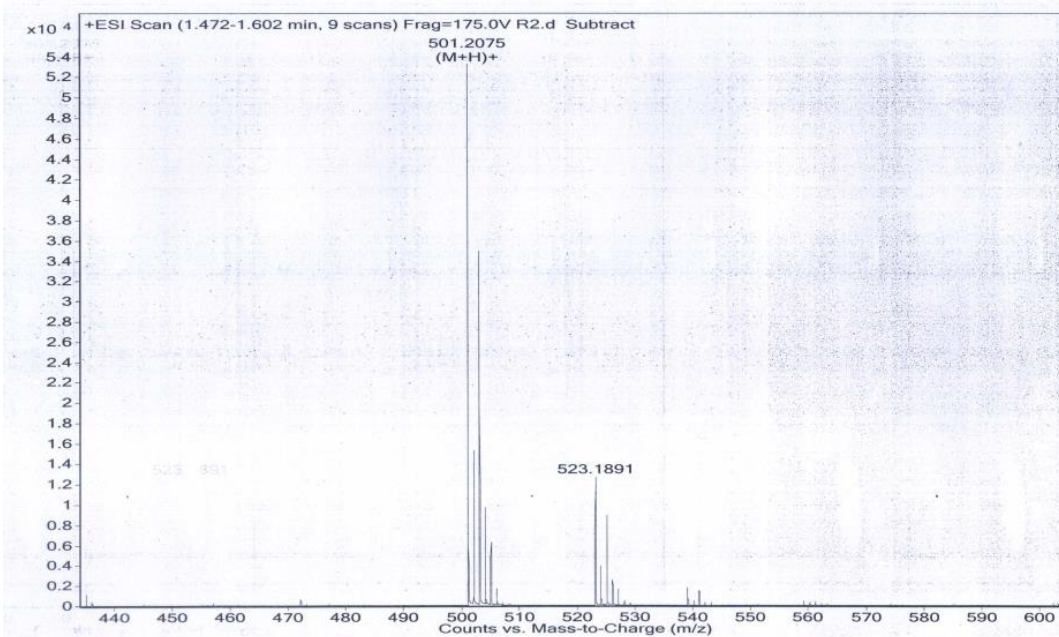


Figure S32. HRMS of compound **25e**



Sample Name	Sample3	Position	P1-A3	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	LS-R5.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	11/2/2018 11:18:11 AM

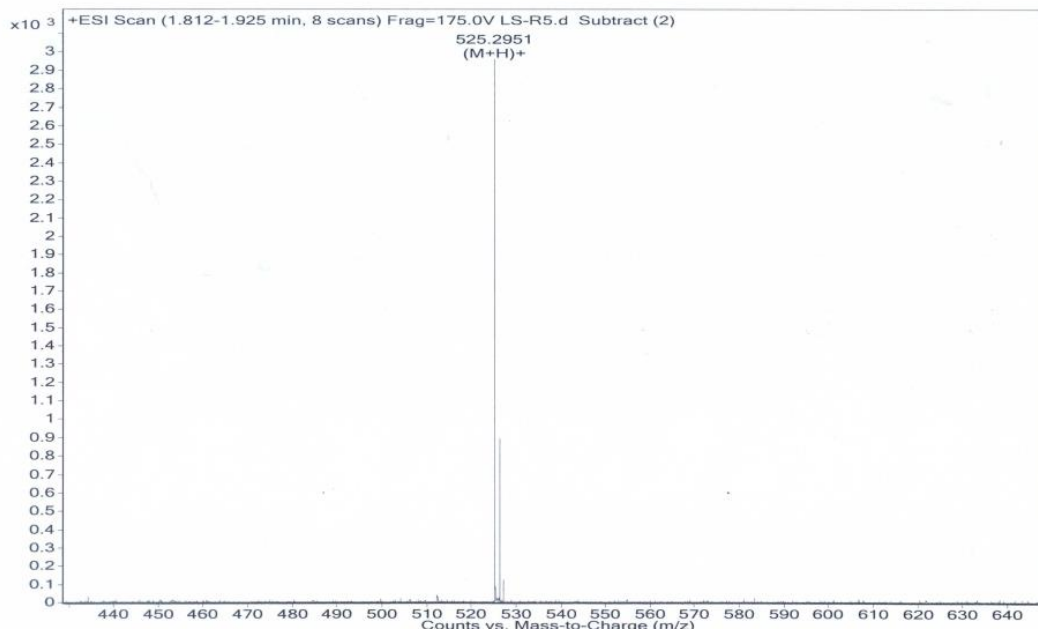


Figure S33. HRMS of compound **26e**

Sample Name	Sample12	Position	P1-C6	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	R6.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/29/2018 6:59:54 PM

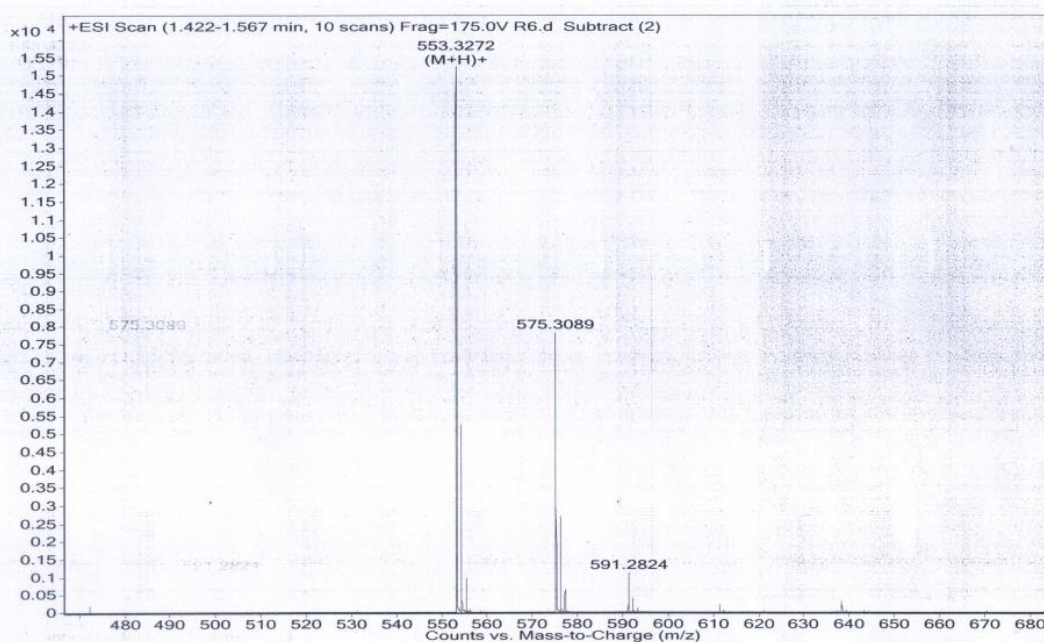


Figure S34. HRMS of compound **27e**

Sample Name	Sample4	Position	P1-A4	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	LS-R7.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	11/2/2018 11:25:01 AM

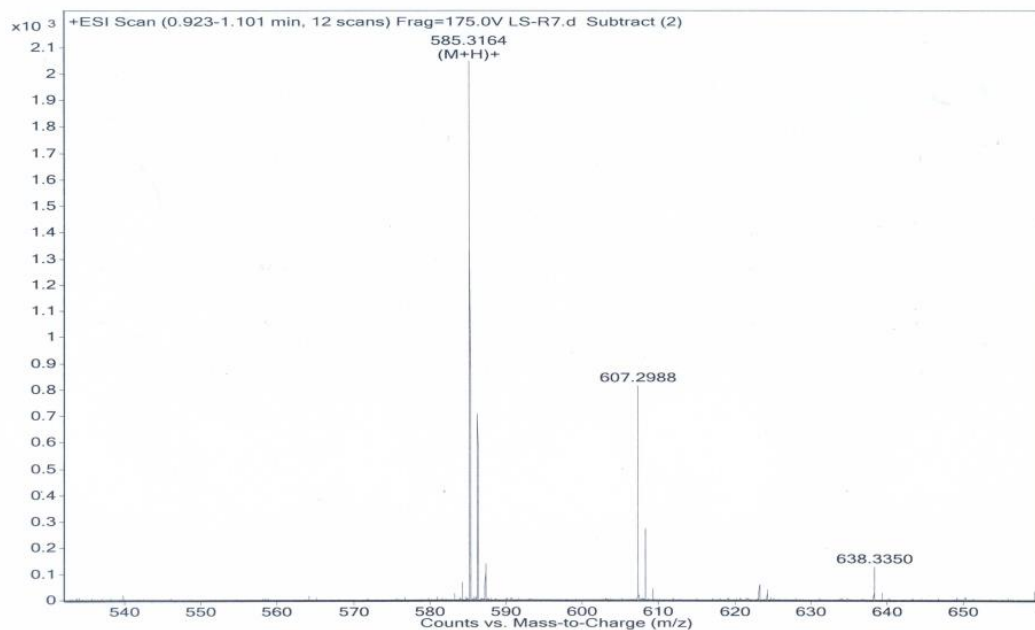


Figure S35. HRMS of compound **28e**

Sample Name	Sample13	Position	P1-C7	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	R8.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/29/2018 7:06:48 F

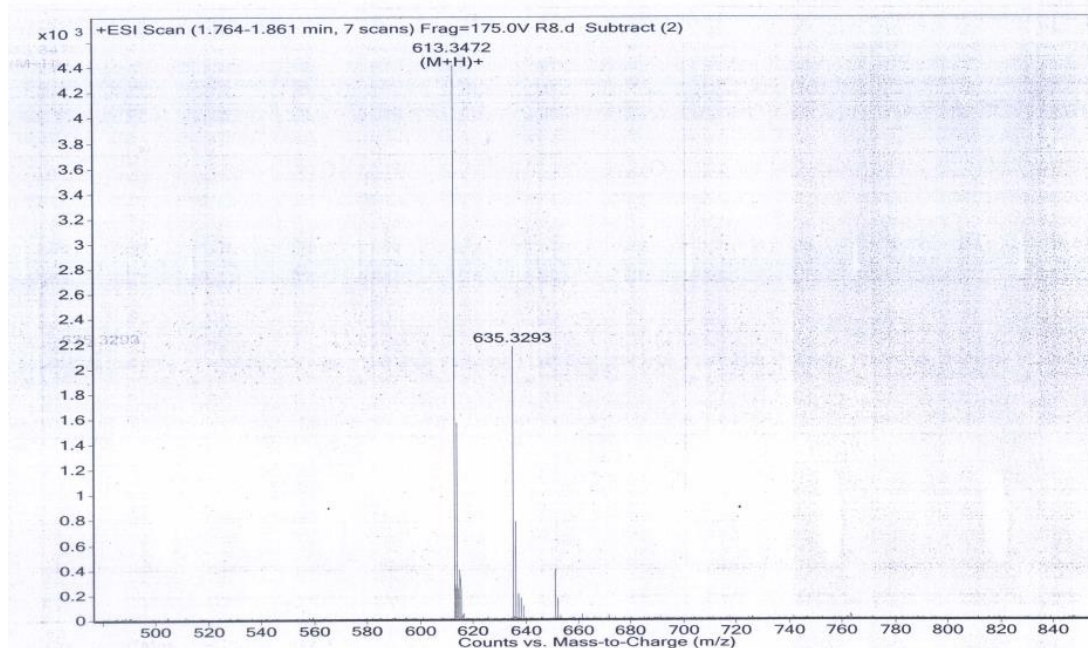


Figure S36. HRMS of compound **29e**

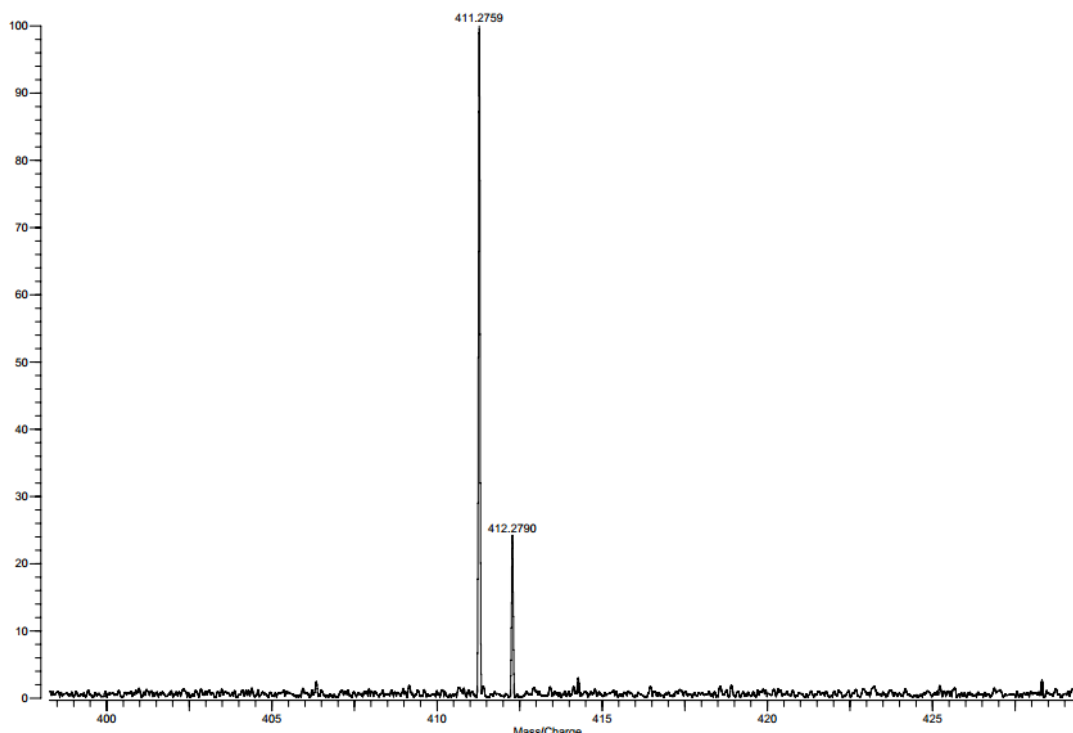


Figure S37. HRMS of compound **30e**

Sample Name	Sample2	Position	P1-A2	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	LS-B2.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	11/2/2018 11:11:19 AM

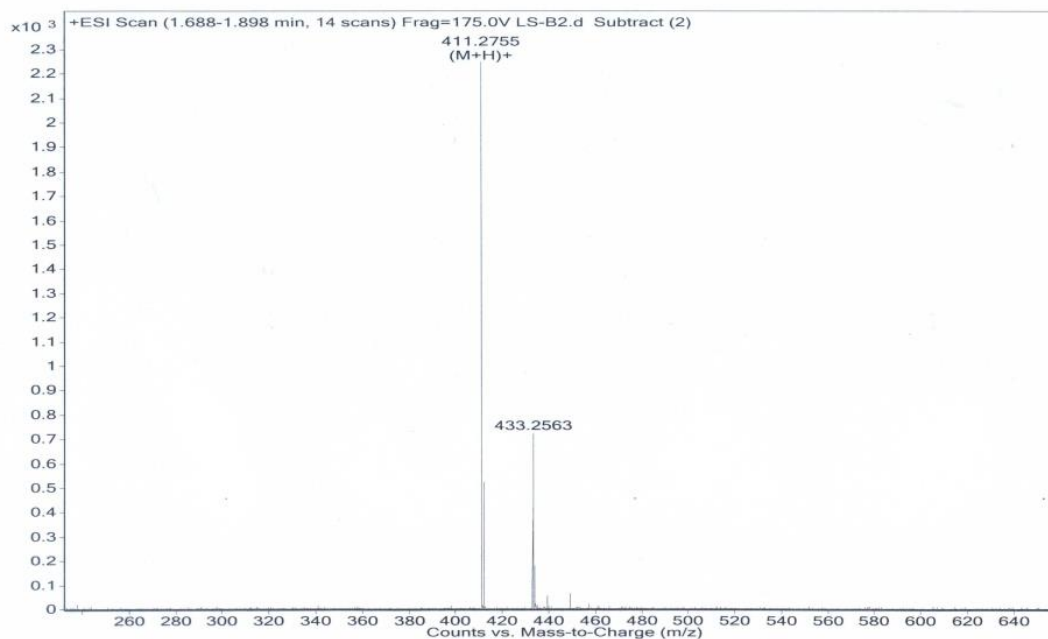


Figure S38. HRMS of compound **31e**

Sample Name	Sample14	Position	P1-D1	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	B03.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/29/2018 7:27:27 PM

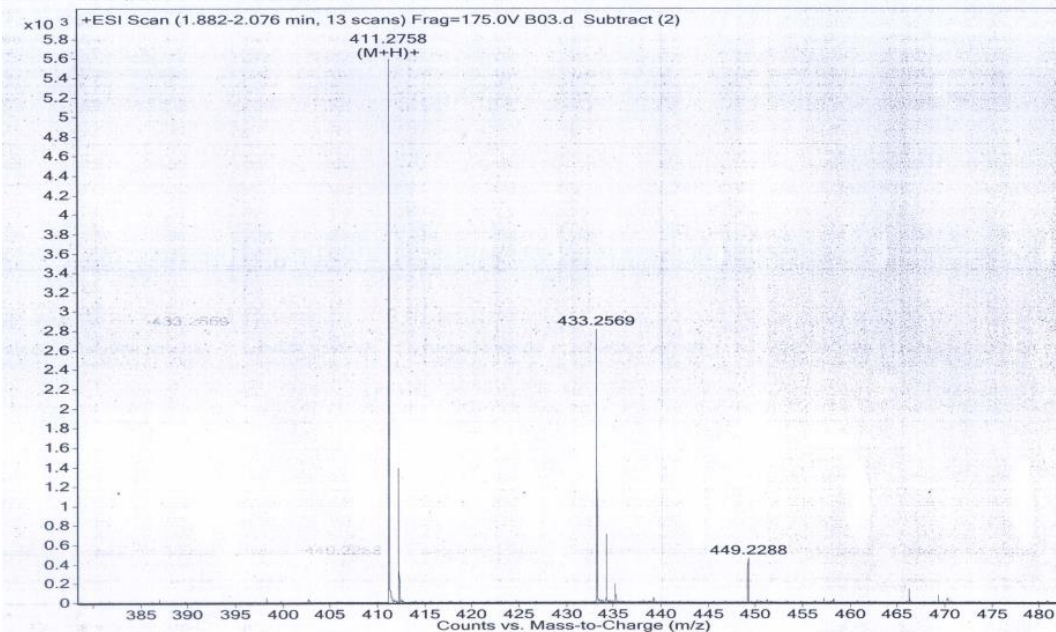


Figure S39. HRMS of compound **32e**

Sample Name	Sample15	Position	P1-D2	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	B006.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/29/2018 7:34:22 PM

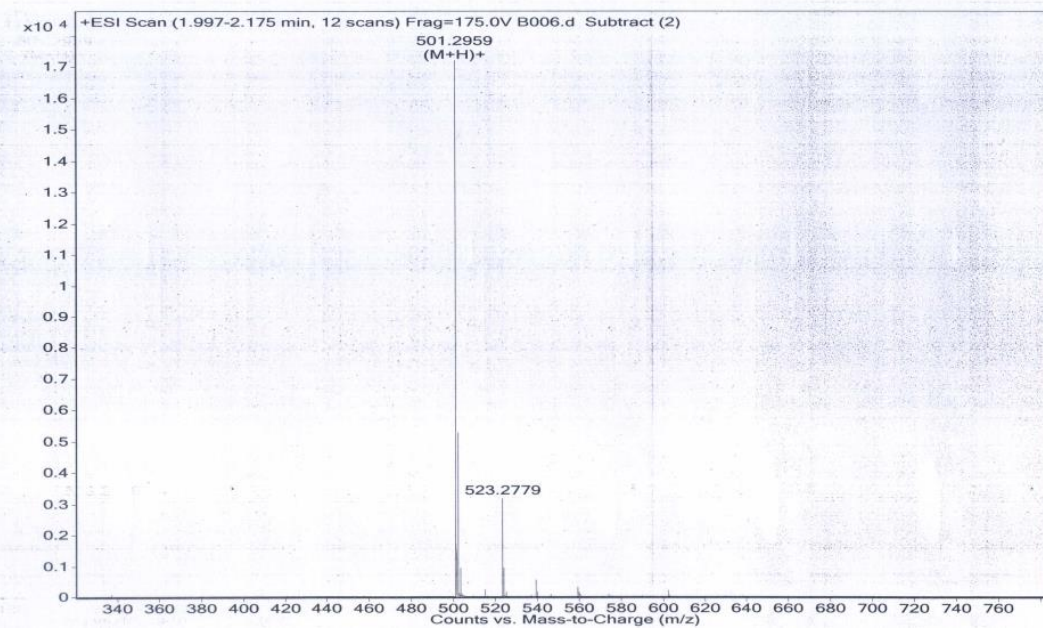


Figure S40. HRMS of compound **33e**

Sample Name	Sample15	Position	P1-D3	Instrument Name	Instrument 1	User Name	Some Ions Missed 10/29/2018 7:41:14 PM
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	
Data Filename	B08.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	

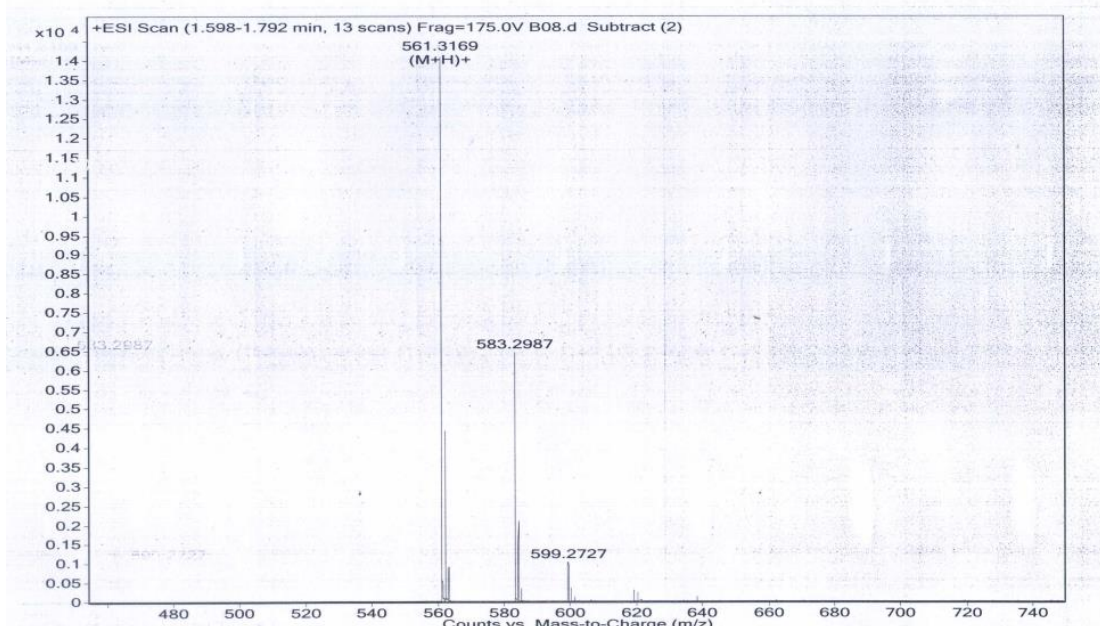


Figure S41. HRMS of compound **34e**

Sample Name	Sample16	Position	P1-D4	Instrument Name	Instrument 1	User Name	Some Ions Missed 10/29/2018 7:48:09 PM
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	
Data Filename	B09.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	

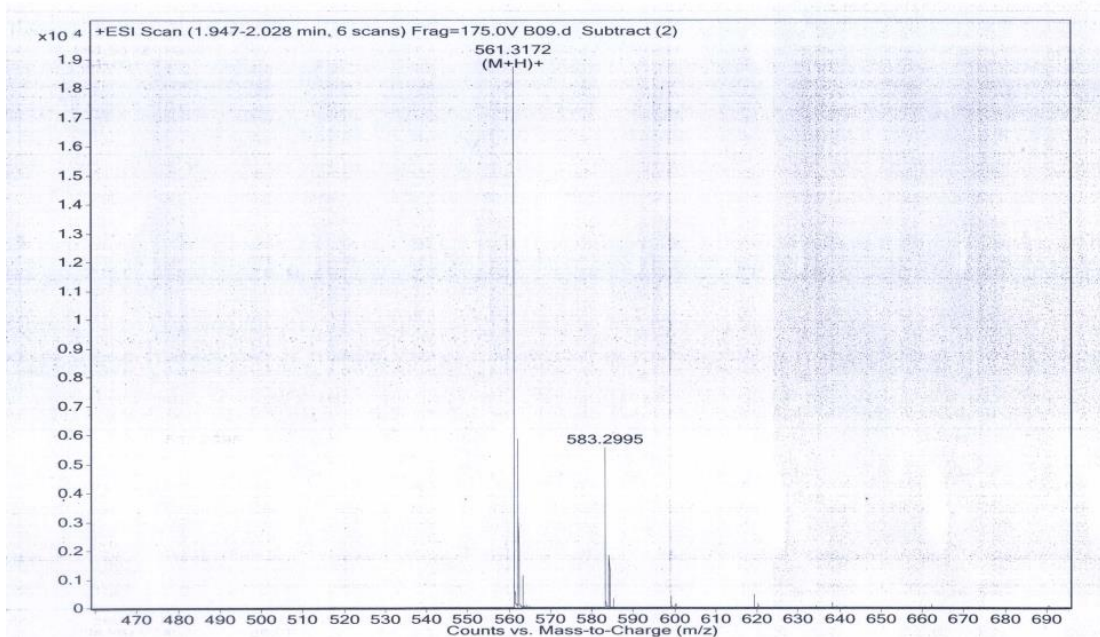


Figure S42. HRMS of compound **35e**

Sample Name	Sample1	Position	P1-A1	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	LS-L8.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	11/2/2018 11:04:27 AM

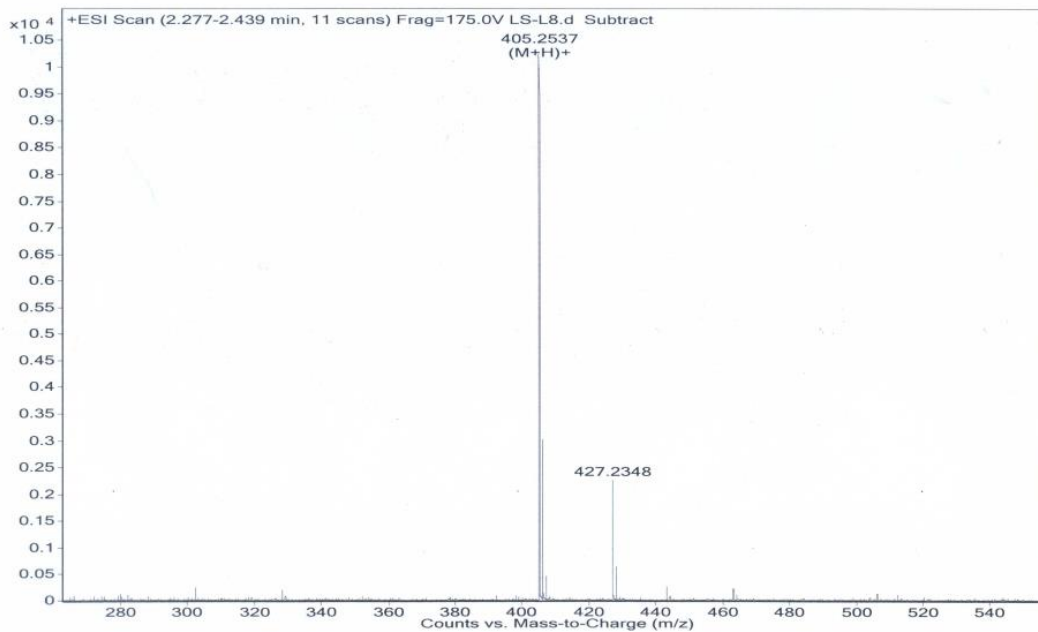


Figure S43. HRMS of compound **9d**

Sample Name	Sample10	Position	P1-C2	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	L009.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/29/2018 6:32:23 PM

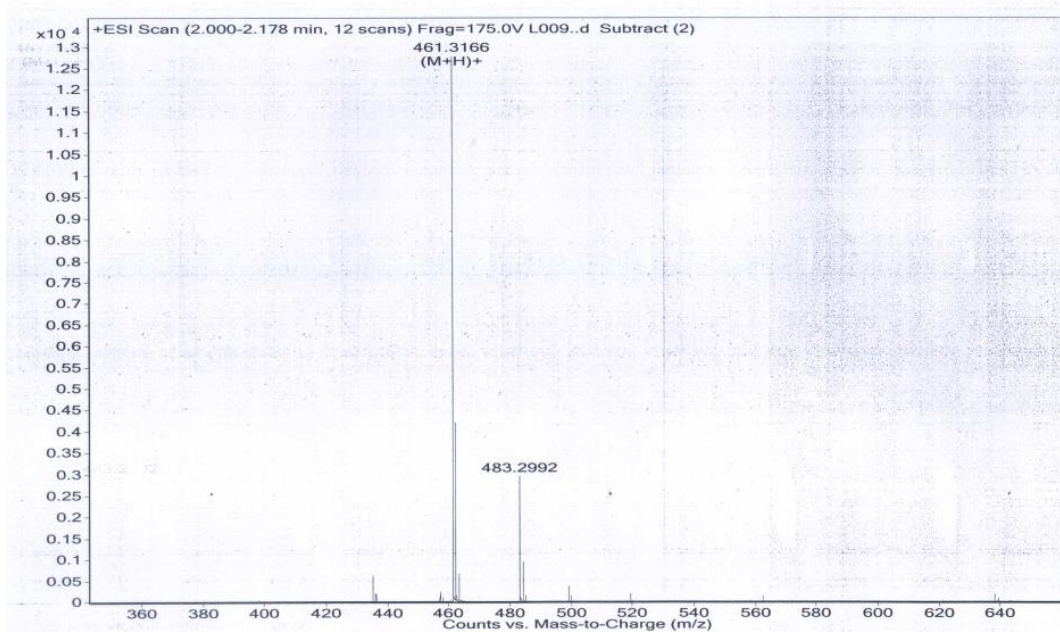


Figure S44. HRMS of compound **9f**

Sample Name	Sample11	Position	P1-C3	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	L010.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/29/2018 6:39:15 PM

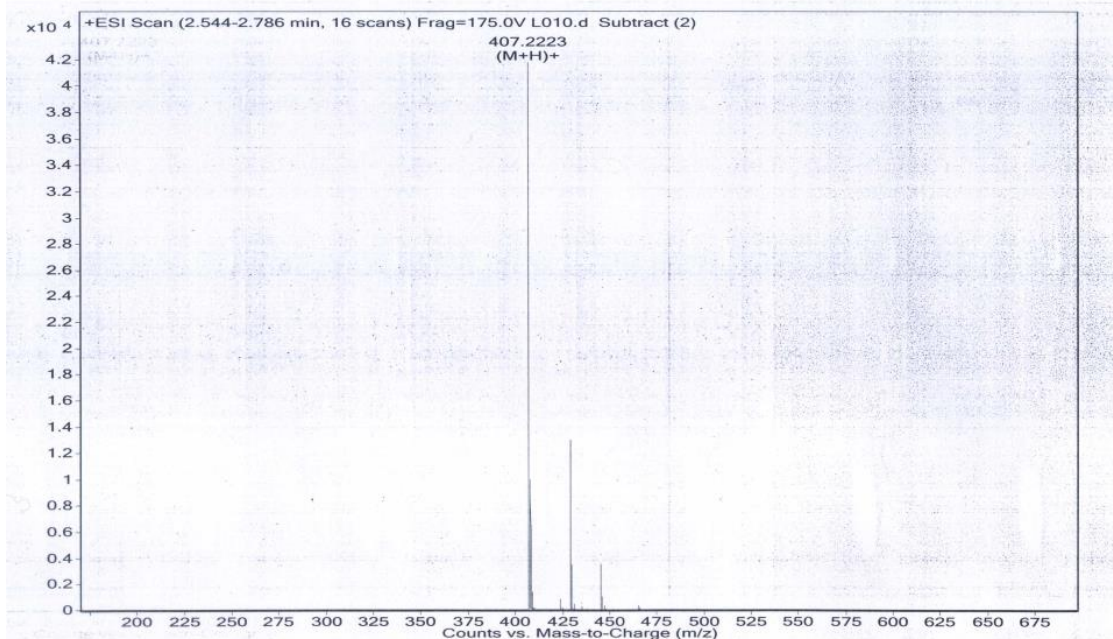


Figure S45. HRMS of compound **9g**

Sample Name	Sample8	Position	P1-B6	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	L01.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/29/2018 5:57:56 PM

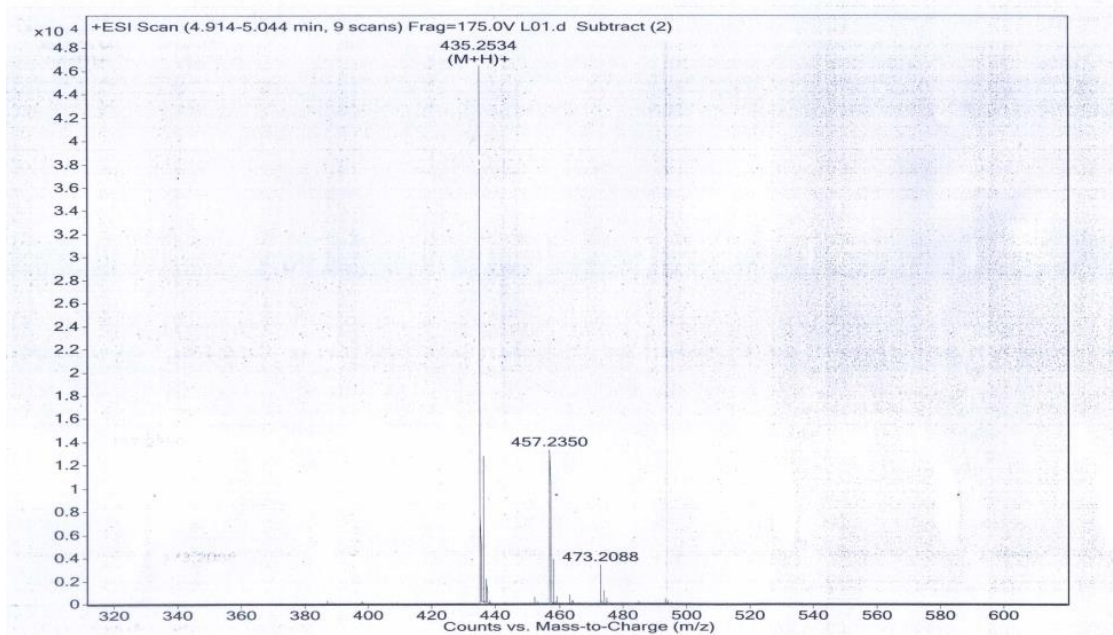


Figure S46. HRMS of compound **9h**

Sample Name	Sample11	Position	P1-C4	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	L011.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/29/2018 6:46:08 PM

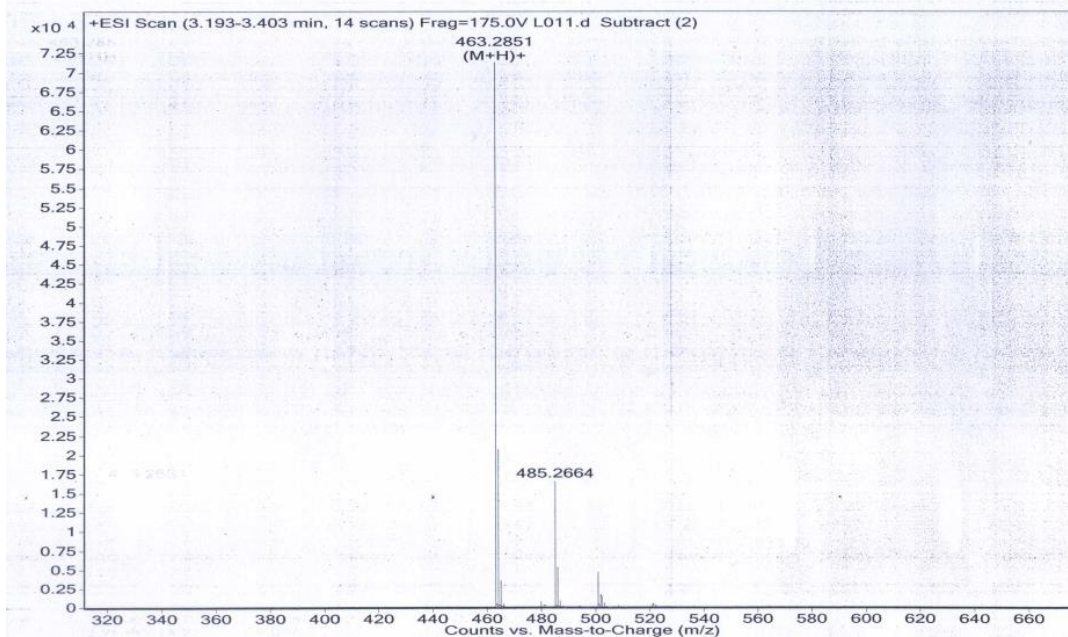


Figure S47. HRMS of compound **9i**

Sample Name	Sample9	Position	P1-B9	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	L04.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/29/2018 6:18:35 PM

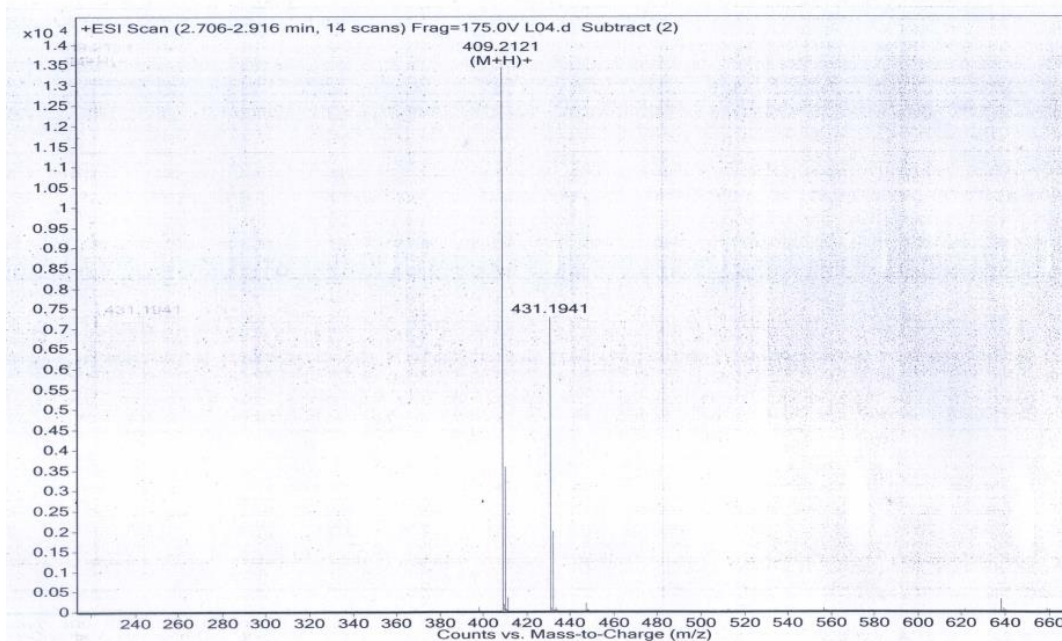


Figure S48. HRMS of compound **9j**



Sample Name	Sample1	Position	P1-A1	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	L05.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	11/12/2018 4:52:01 PM

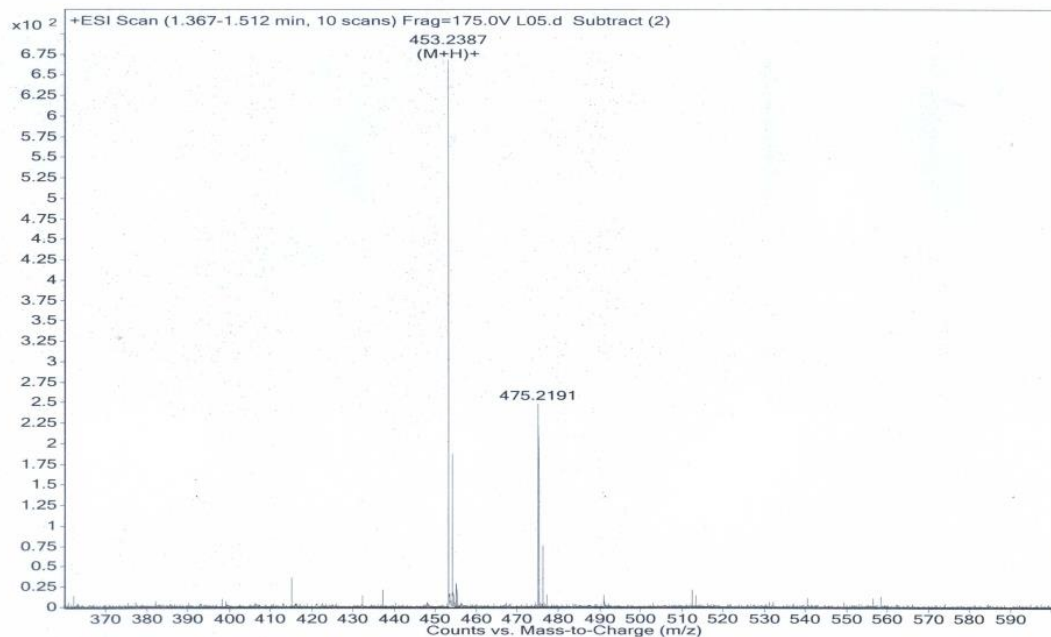


Figure S49. HRMS of compound **9k**

Sample Name	Sample8	Position	P1-B7	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	L02.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/29/2018 6:04:49 PM

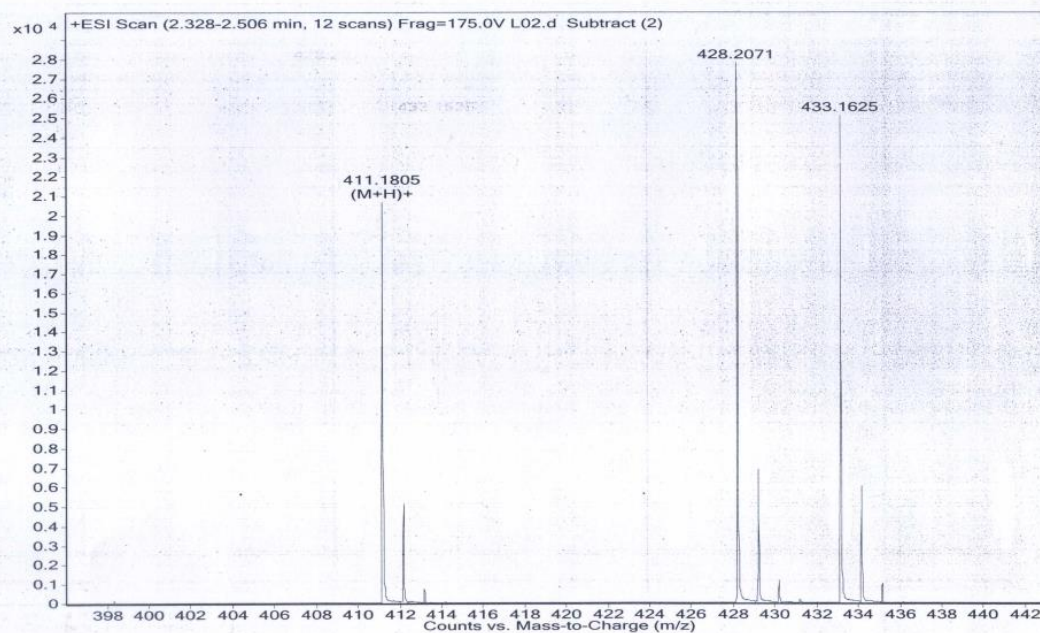


Figure S50. HRMS of compound **9l**

Sample Name	Sample9	Position	P1-B8	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Some Ions Missed
Data Filename	L03.d	ACQ Method	Default-TEST.m	Comment		Acquired Time	10/29/2018 6:11:42 PM

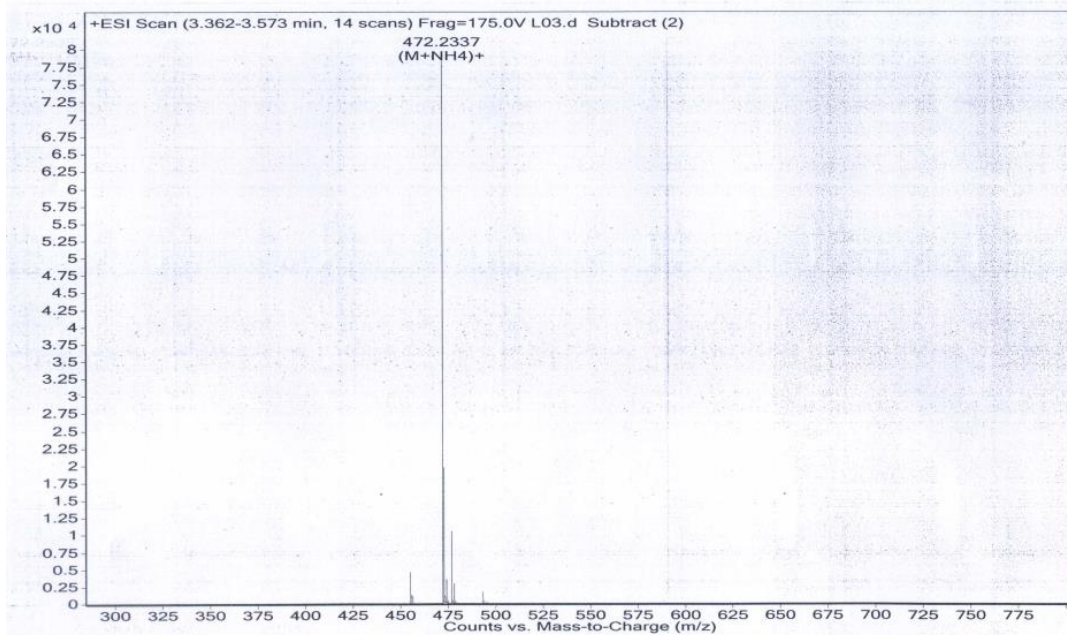


Figure S51. HRMS of compound **9m**

<sup>1</sup>H-NMR

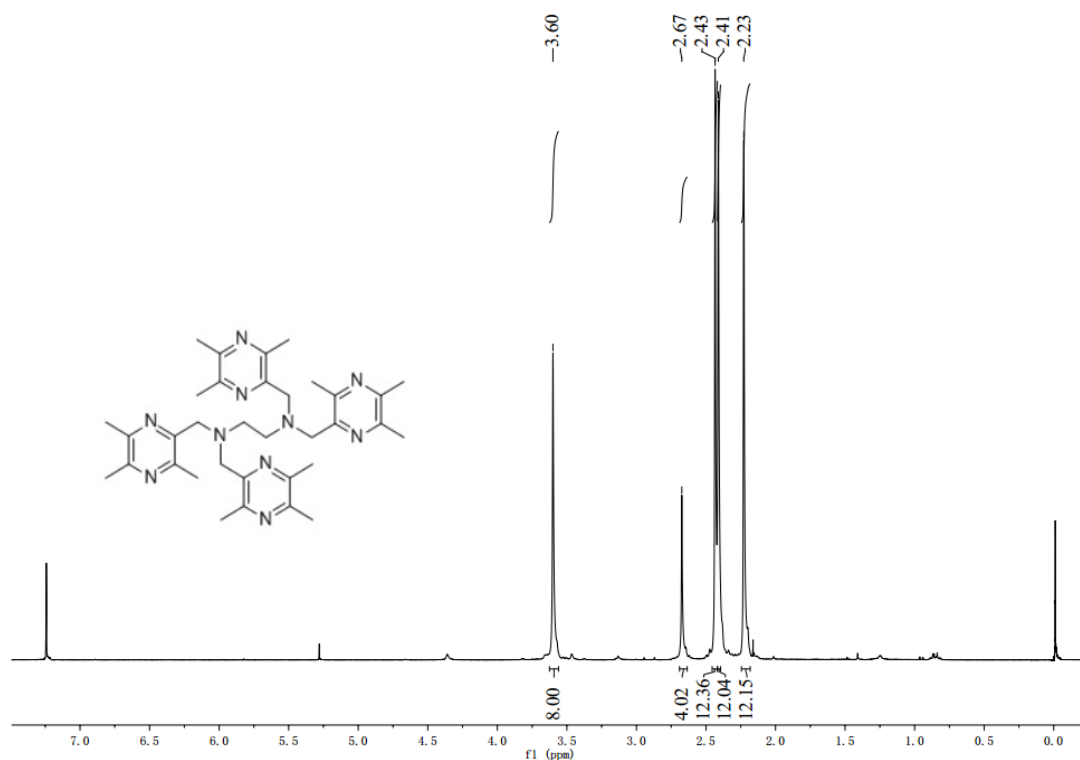


Figure S52 <sup>1</sup>H NMR spectrum of compound **6a**.

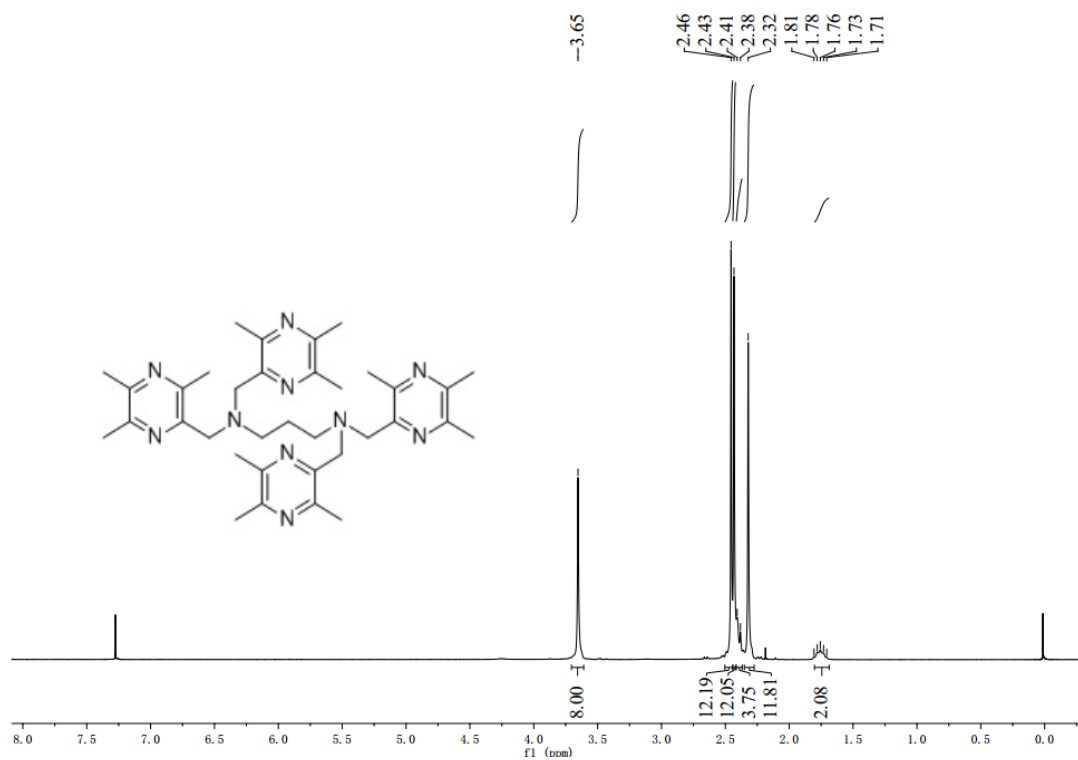


Figure S53  $^1\text{H}$  NMR spectrum of compound **6b**.

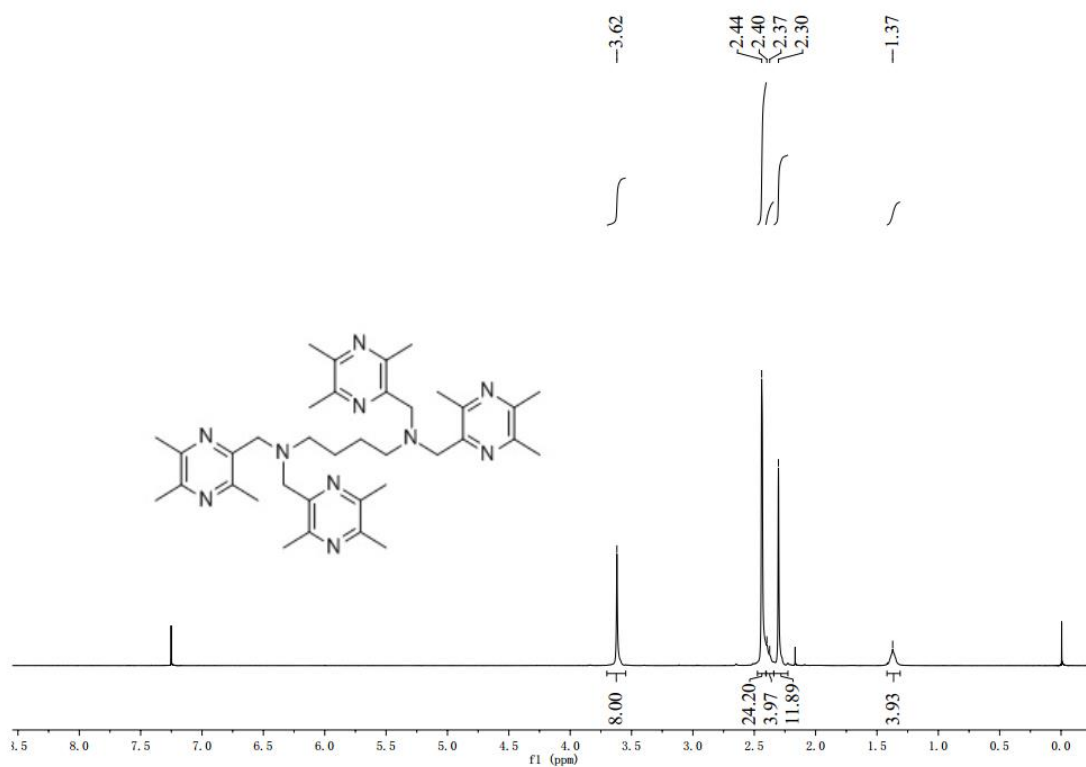


Figure S54  $^1\text{H}$  NMR spectrum of compound **6c**.

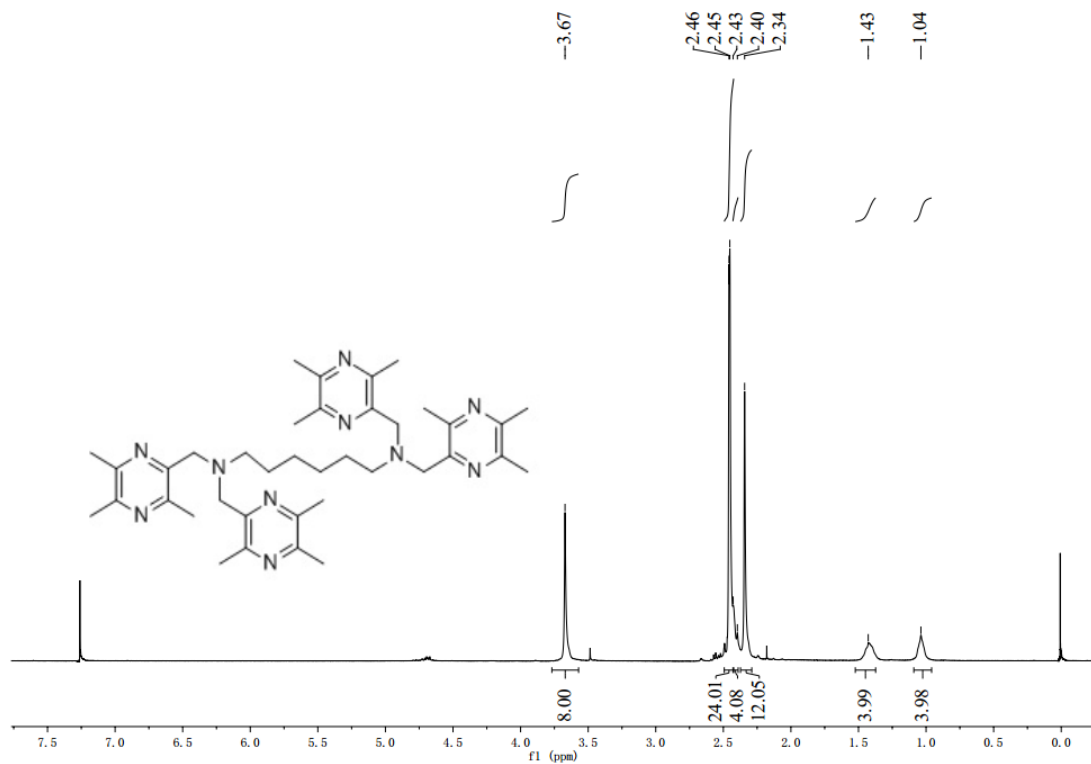


Figure S55 <sup>1</sup>H NMR spectrum of compound 6d.

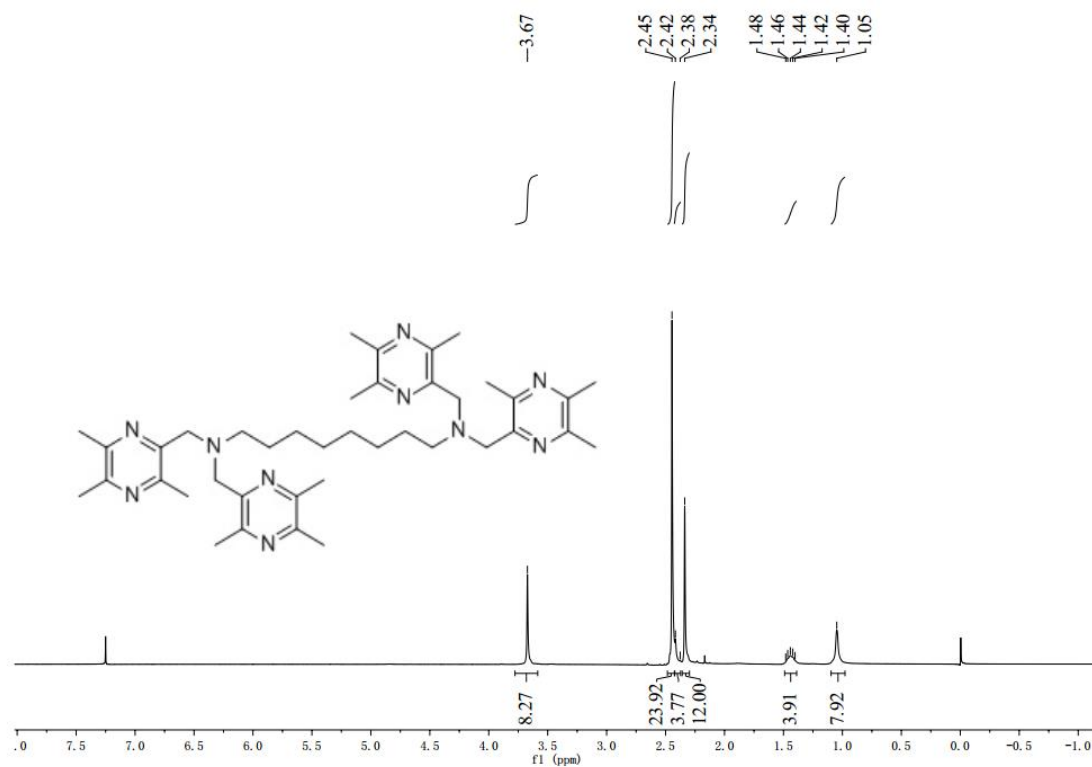


Figure S56 <sup>1</sup>H NMR spectrum of compound 6e.

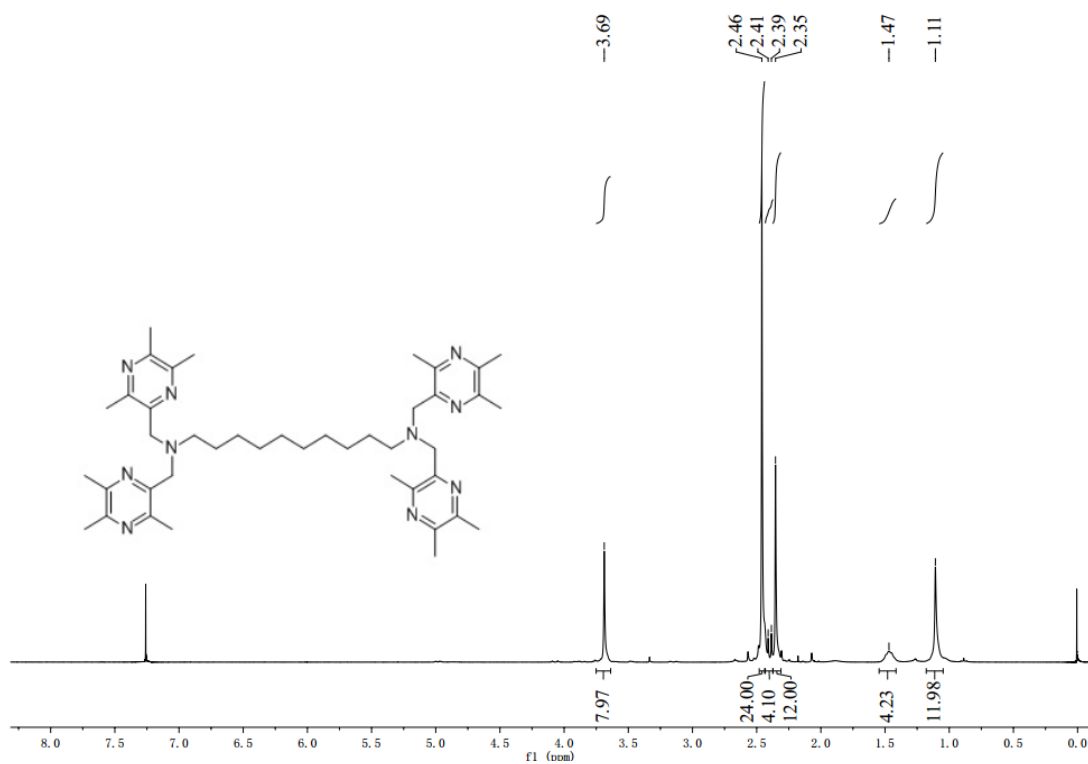


Figure S57  $^1\text{H}$  NMR spectrum of compound **6f**.

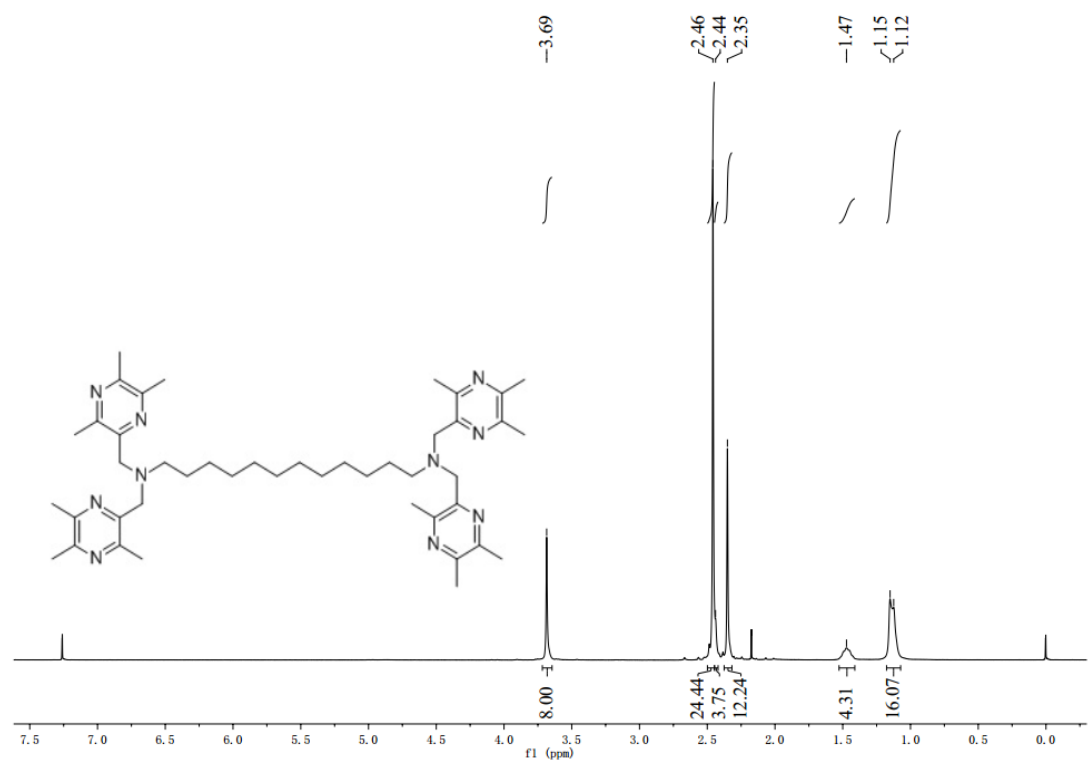


Figure S58  $^1\text{H}$  NMR spectrum of compound **6g**.

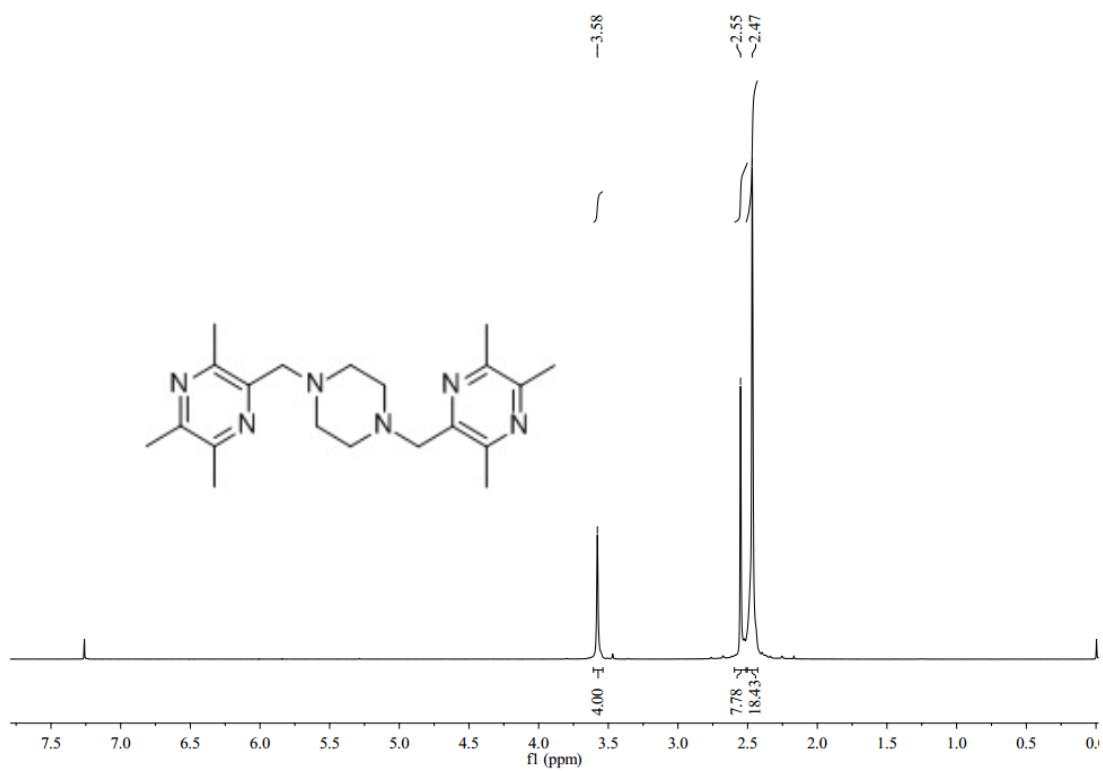


Figure S59 <sup>1</sup>H NMR spectrum of compound **6h**.

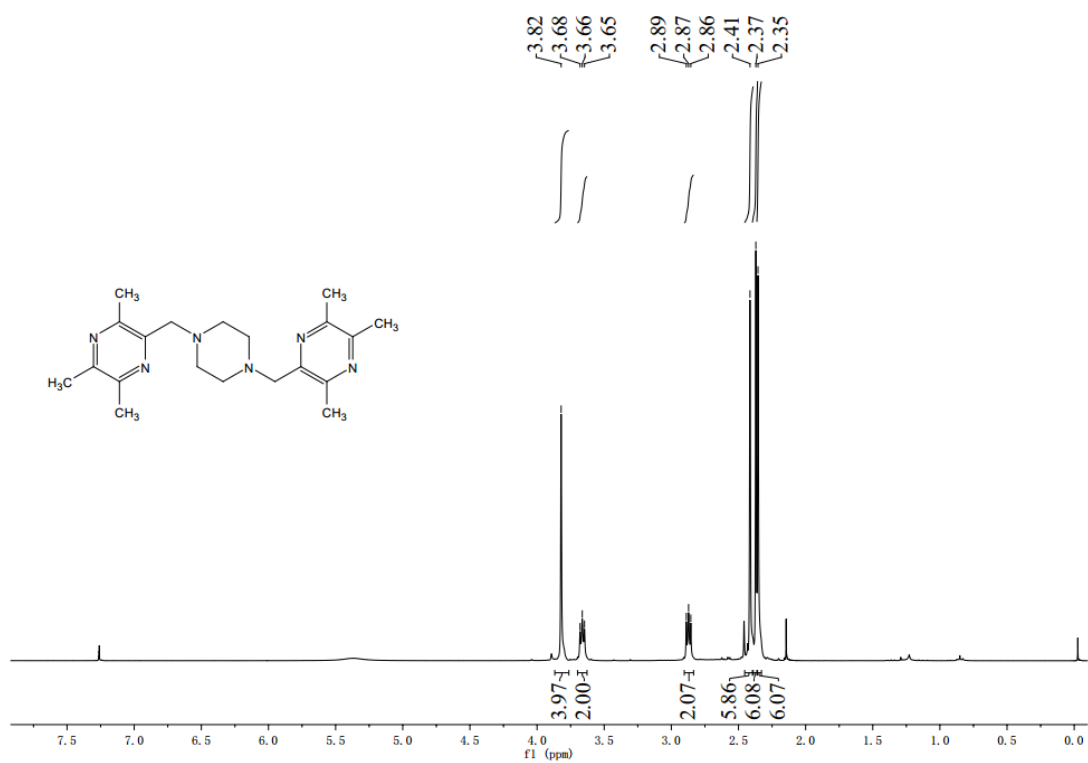


Figure S60 <sup>1</sup>H NMR spectrum of compound **6i**.

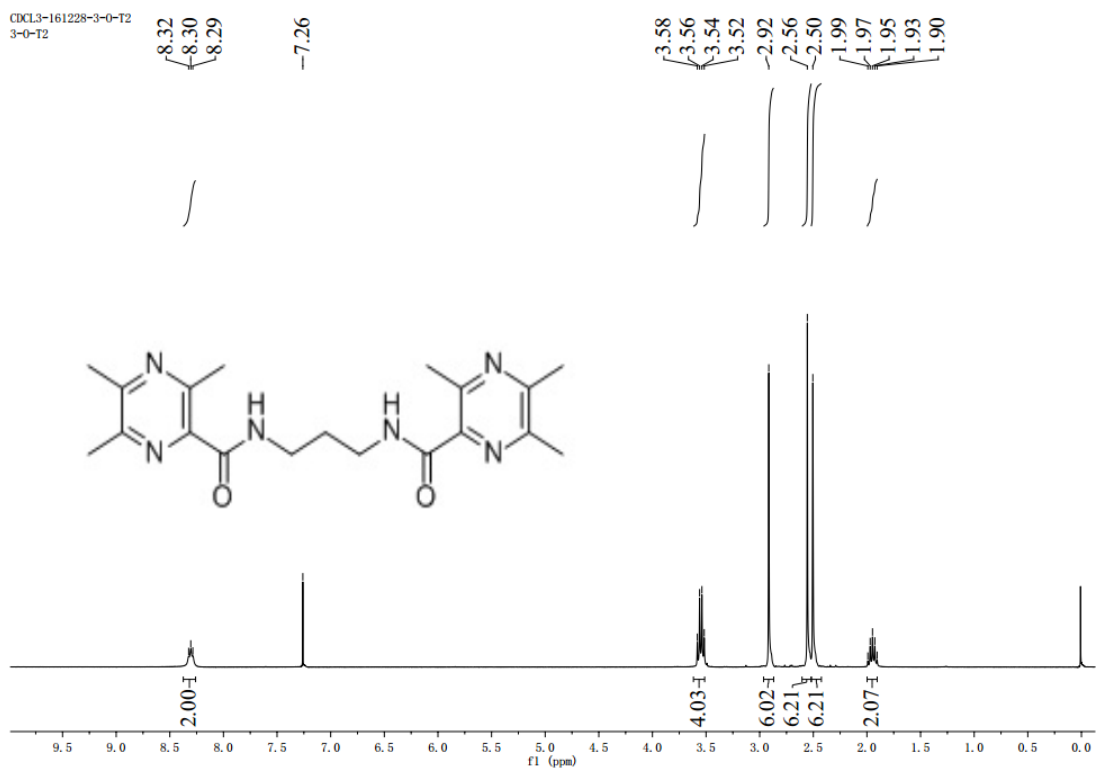


Figure S61 <sup>1</sup>H NMR spectrum of compound **8a**.

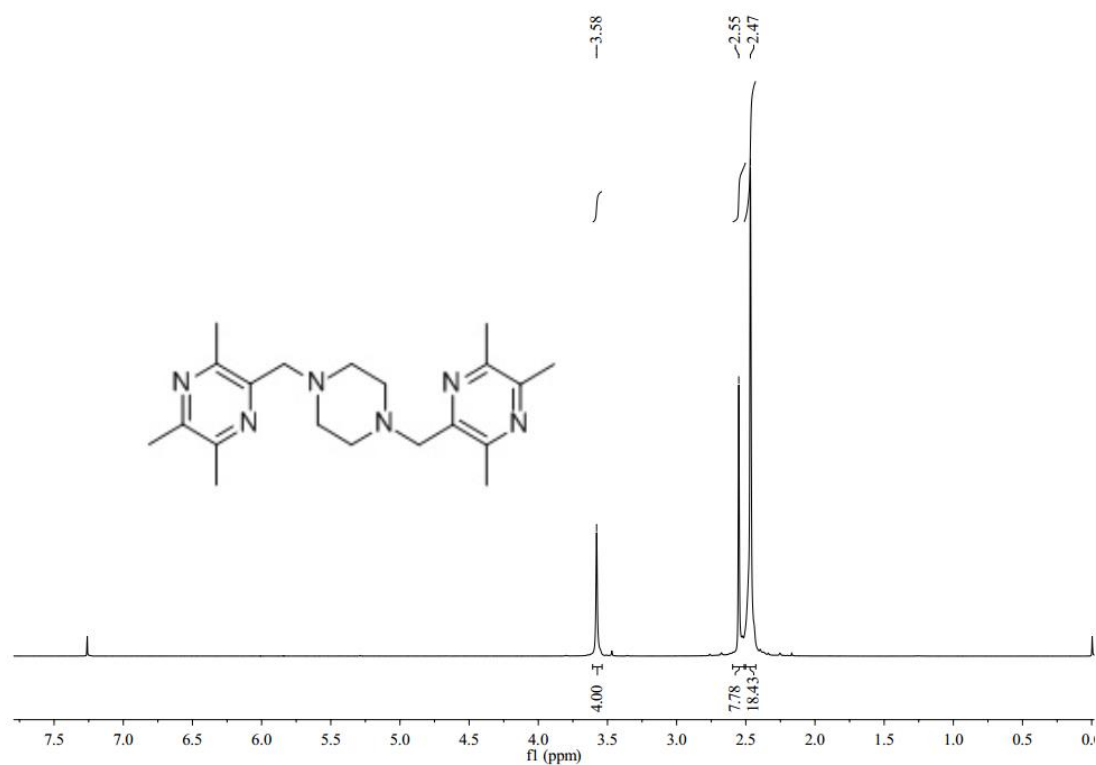
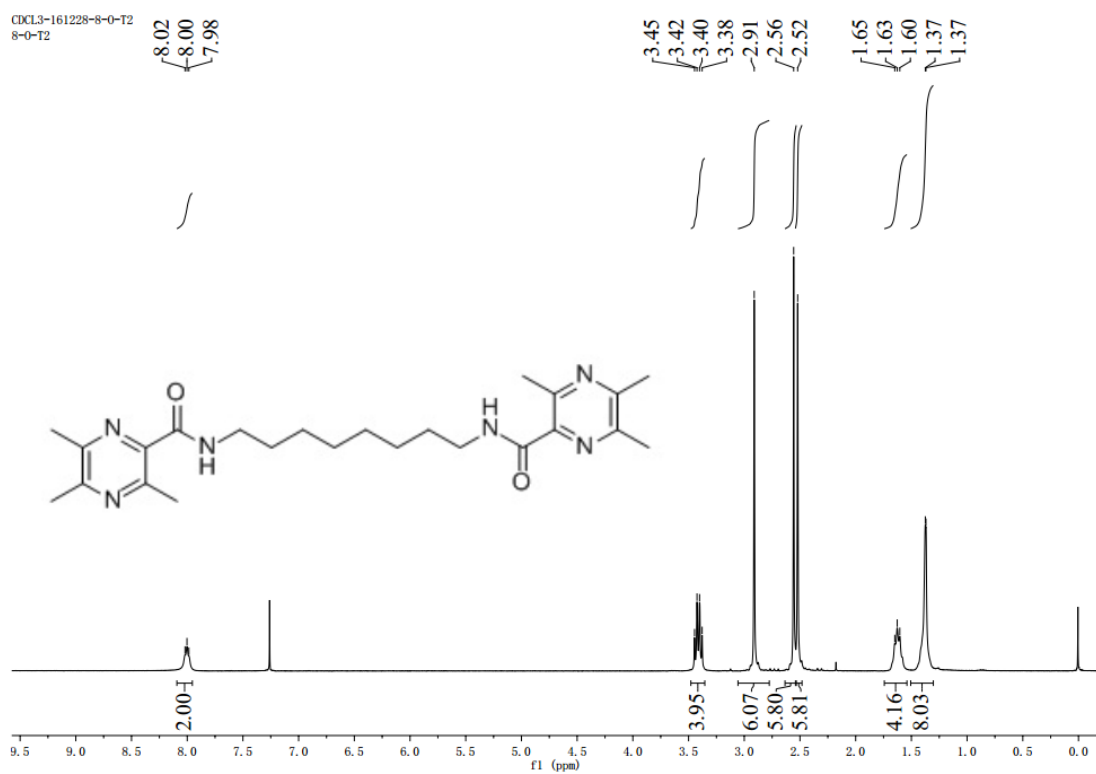
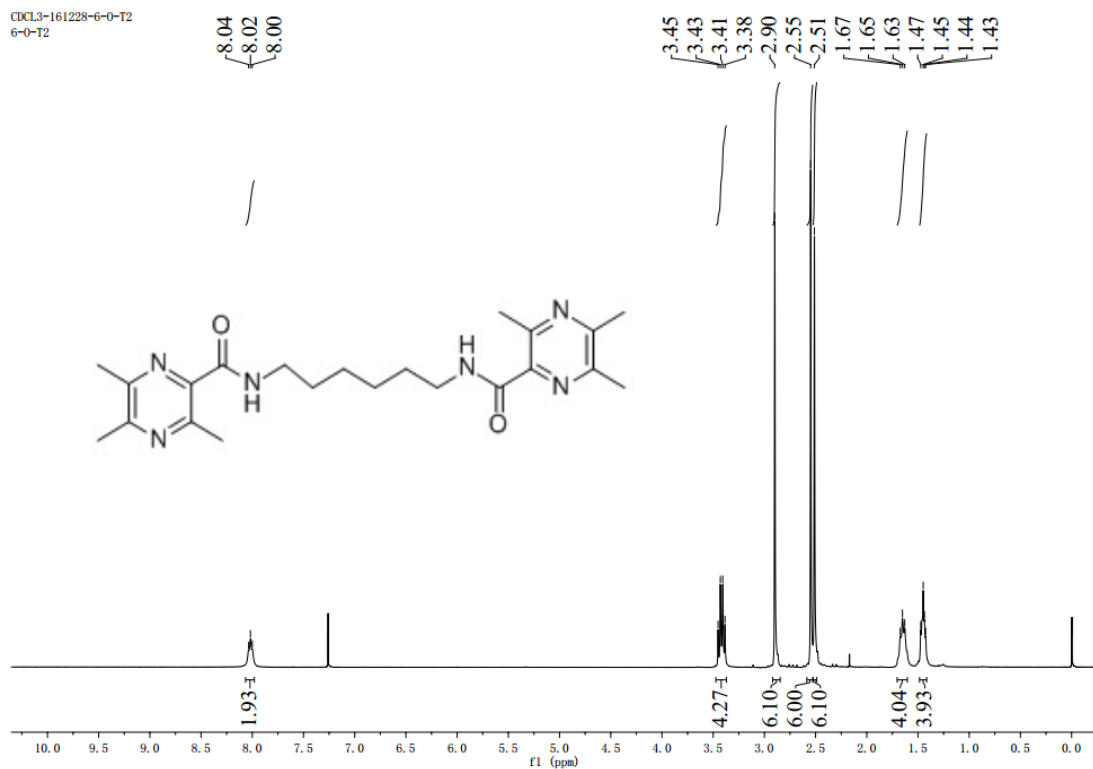


Figure S62 <sup>1</sup>H NMR spectrum of compound **8b**.





CDCL3-161228-10-0-T2  
10-0-T2

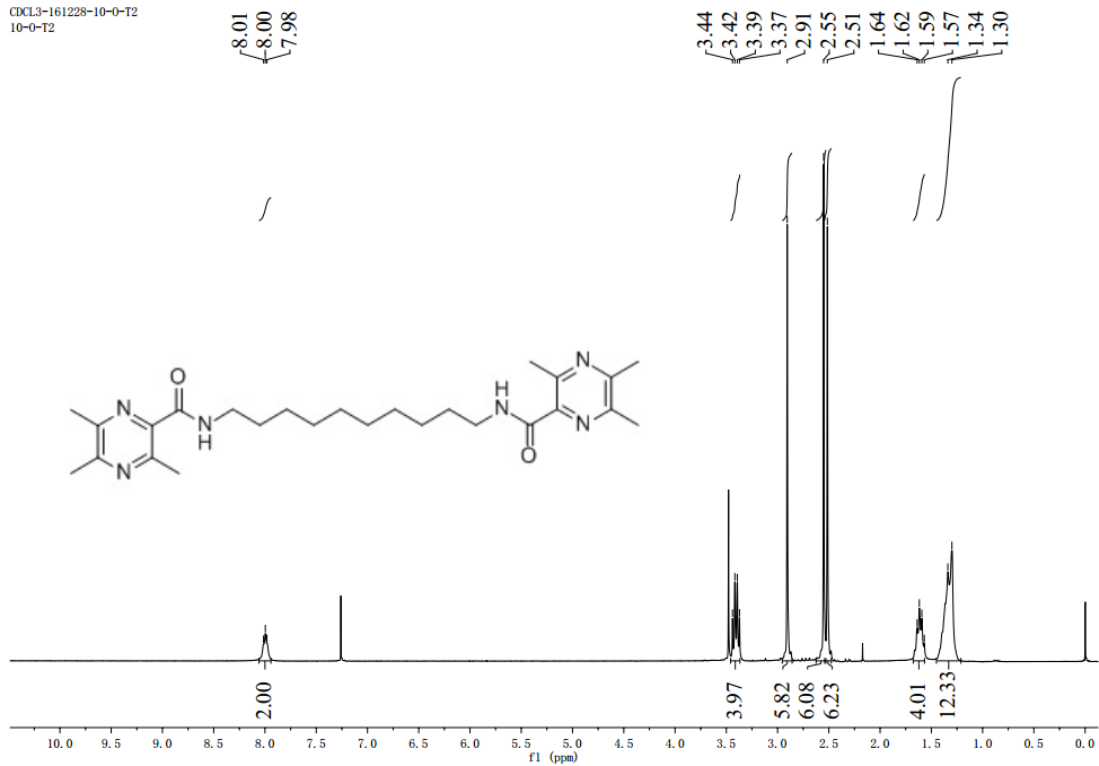


Figure S65  $^1\text{H}$  NMR spectrum of compound **8e**.

CDCL3-161228-12-0-T2  
12-0-T2

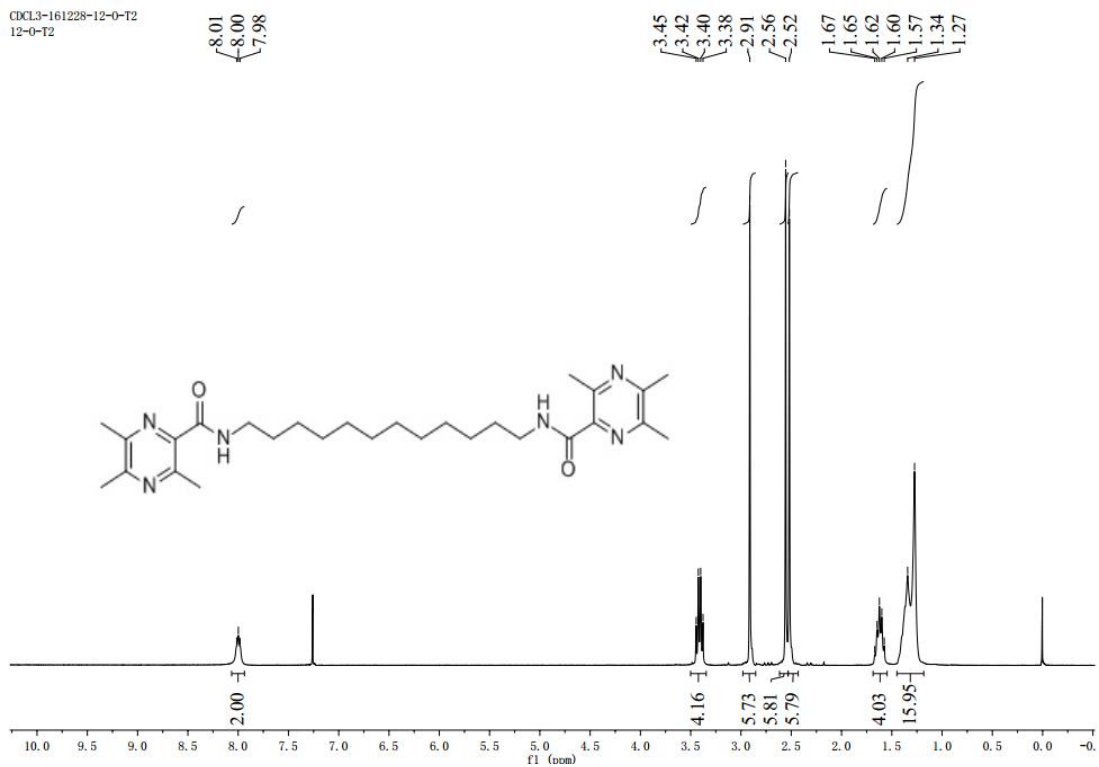


Figure S66  $^1\text{H}$  NMR spectrum of compound **8f**.

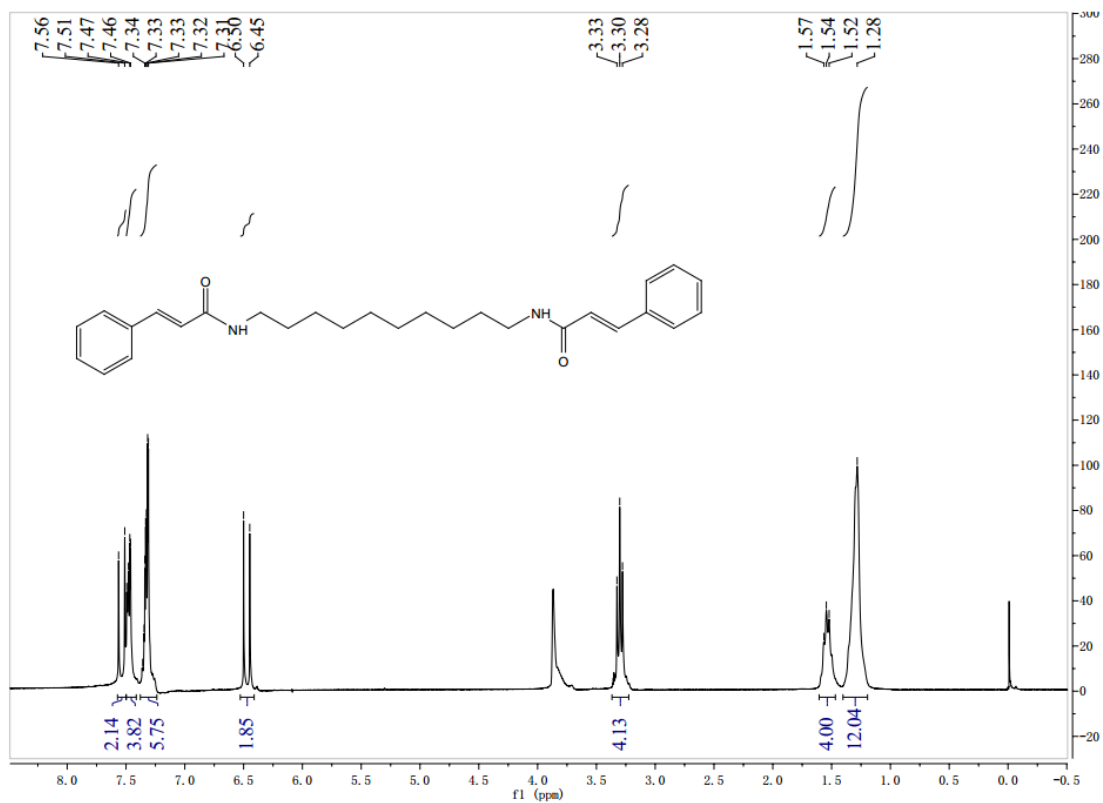


Figure S67 <sup>1</sup>H NMR spectrum of compound **9e**.

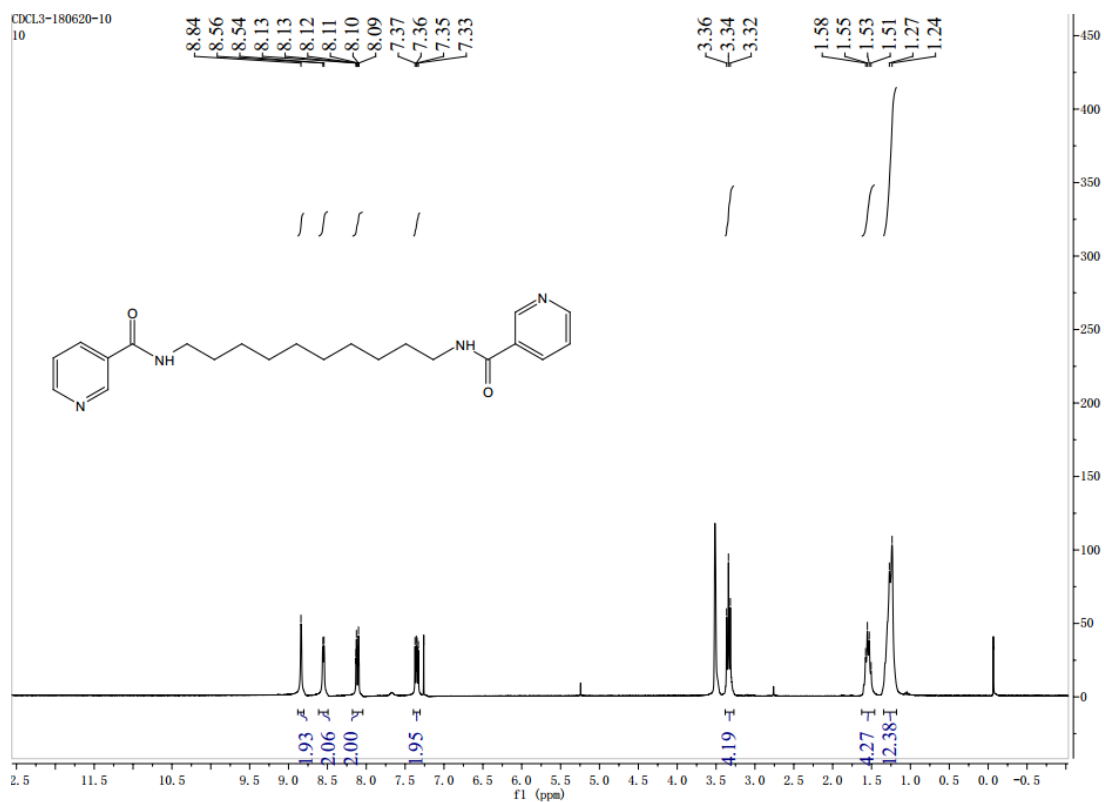


Figure S68 <sup>1</sup>H NMR spectrum of compound **10e**.

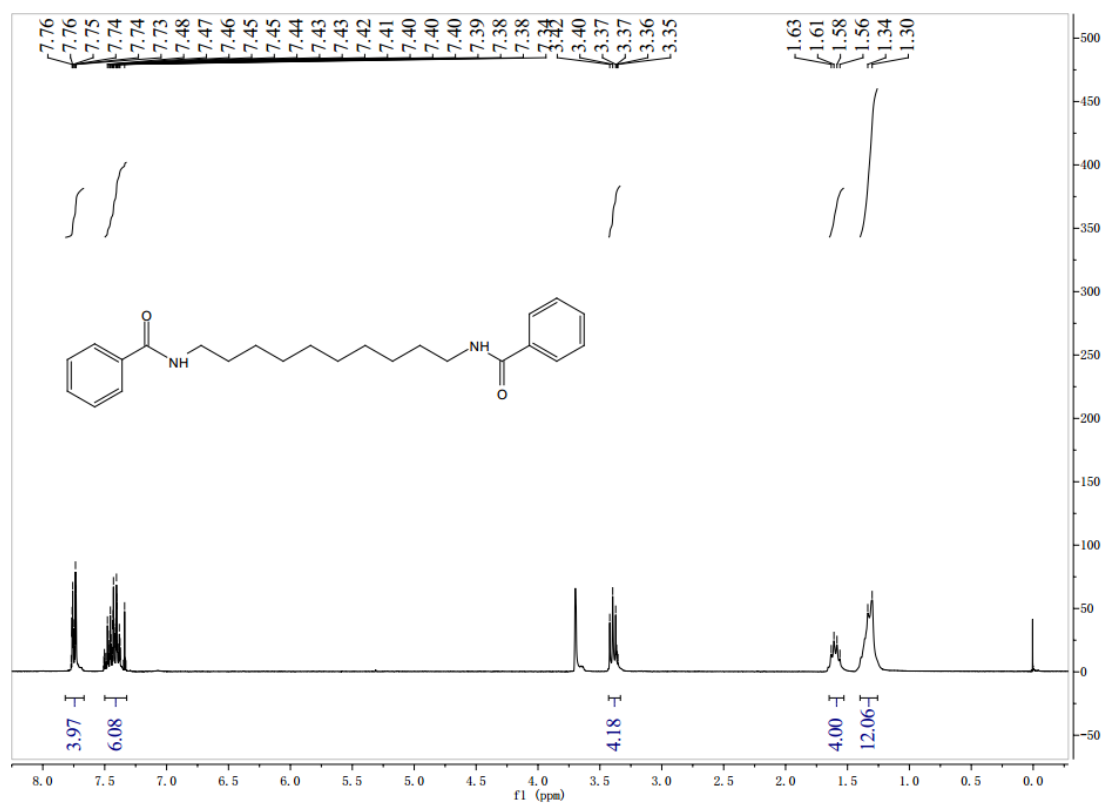


Figure S69 <sup>1</sup>H NMR spectrum of compound **11e**.

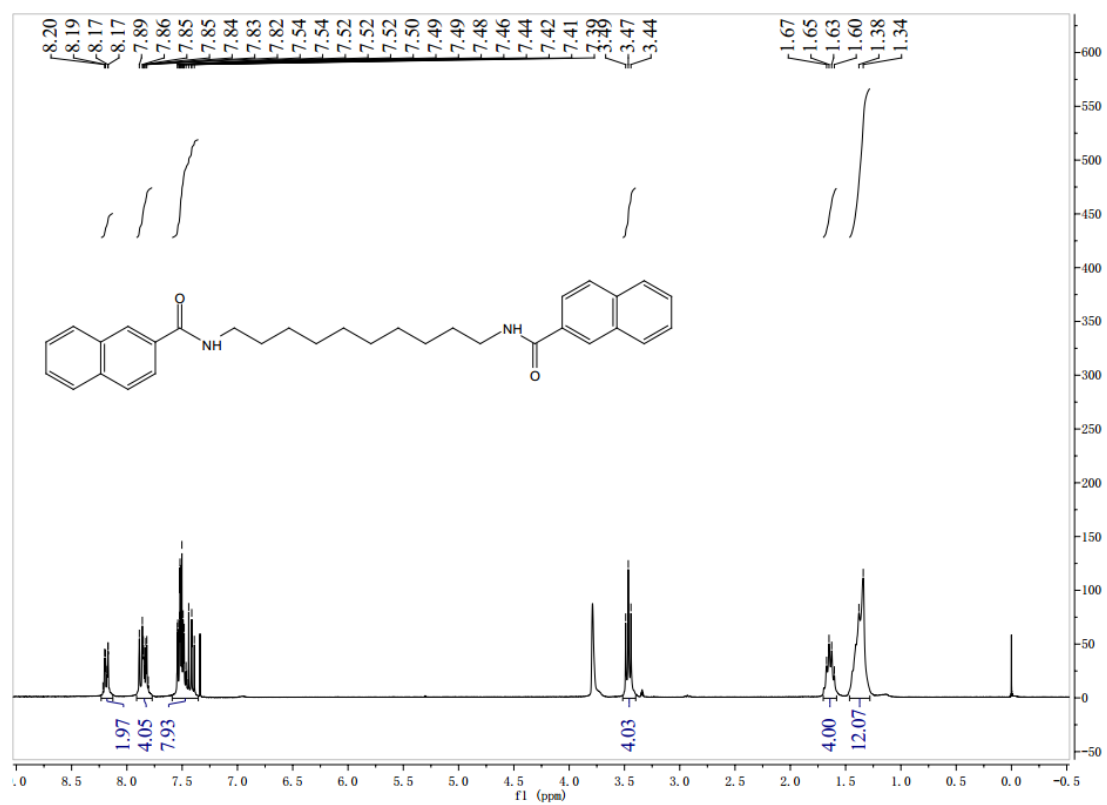


Figure S70 <sup>1</sup>H NMR spectrum of compound **12e**.



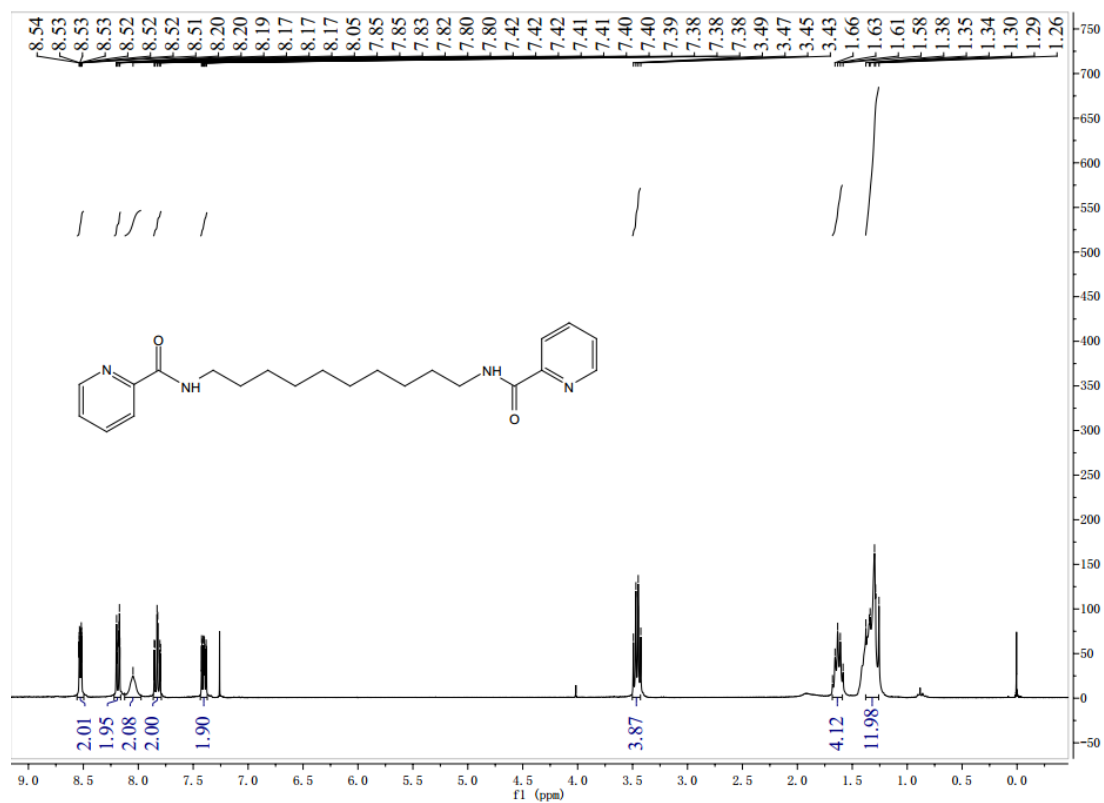


Figure S73 <sup>1</sup>H NMR spectrum of compound 15e.

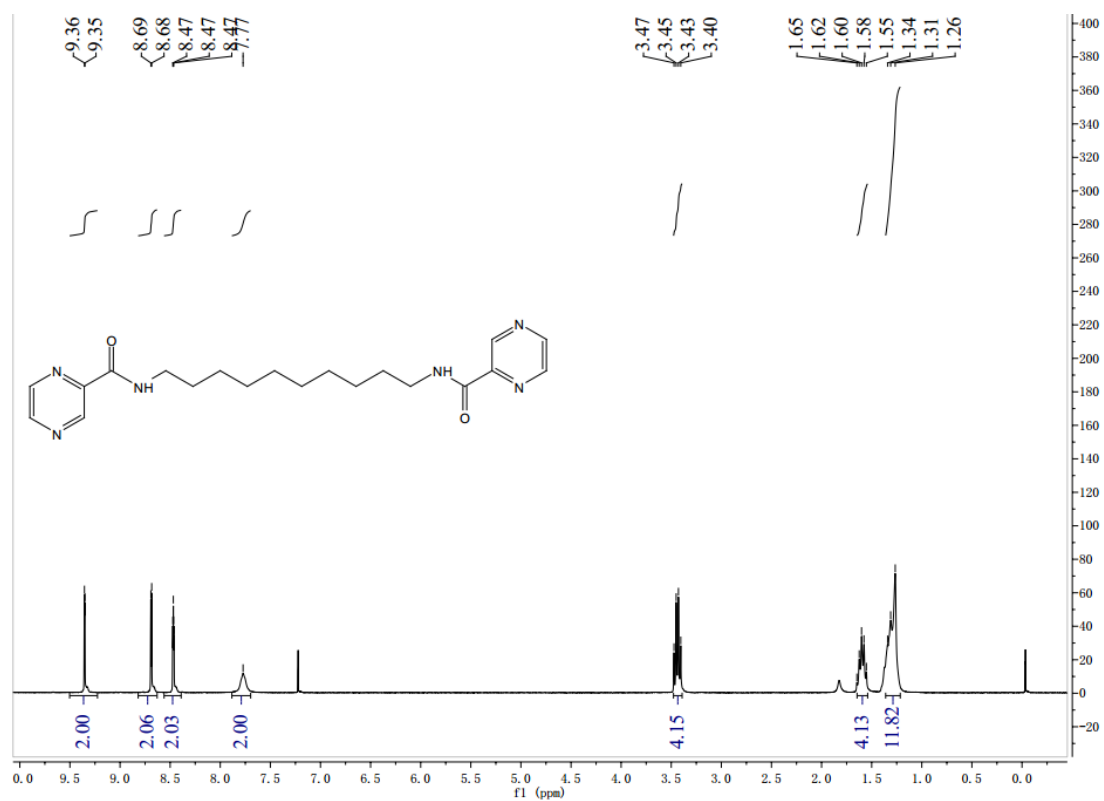


Figure S74 <sup>1</sup>H NMR spectrum of compound 16e.

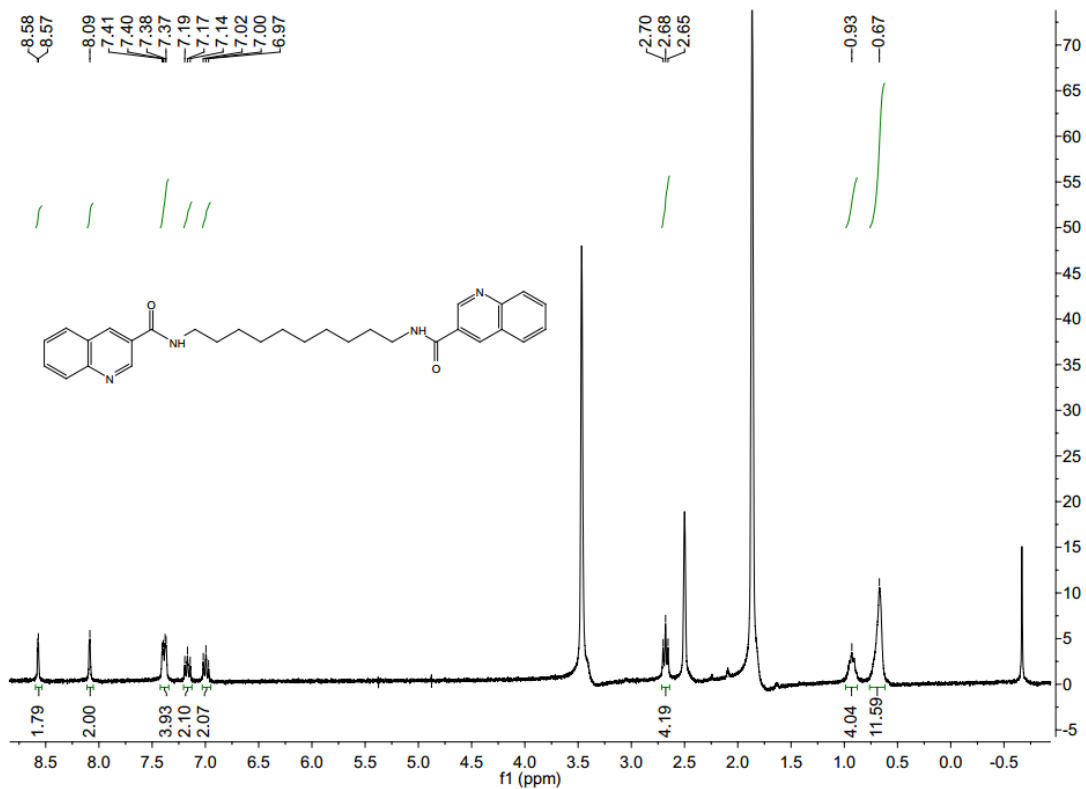


Figure S75  $^1\text{H}$  NMR spectrum of compound **17e**.

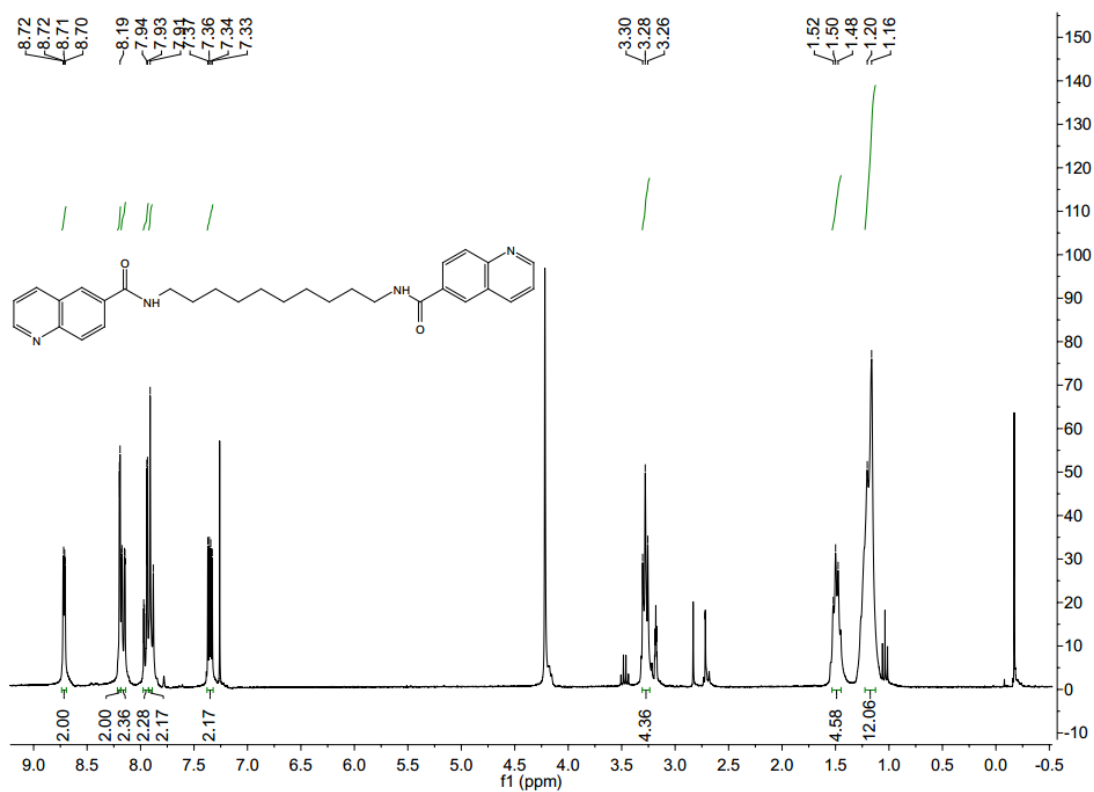


Figure S76  $^1\text{H}$  NMR spectrum of compound **18e**.

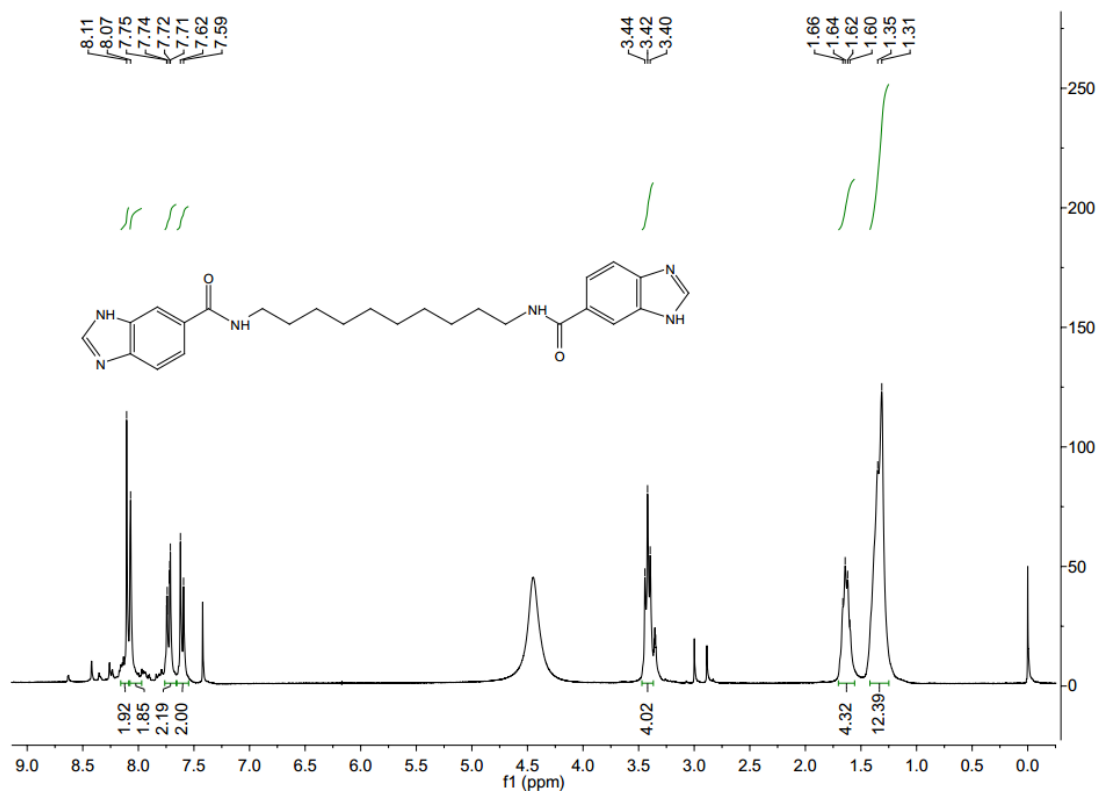


Figure S77  $^1\text{H}$  NMR spectrum of compound **19e**.

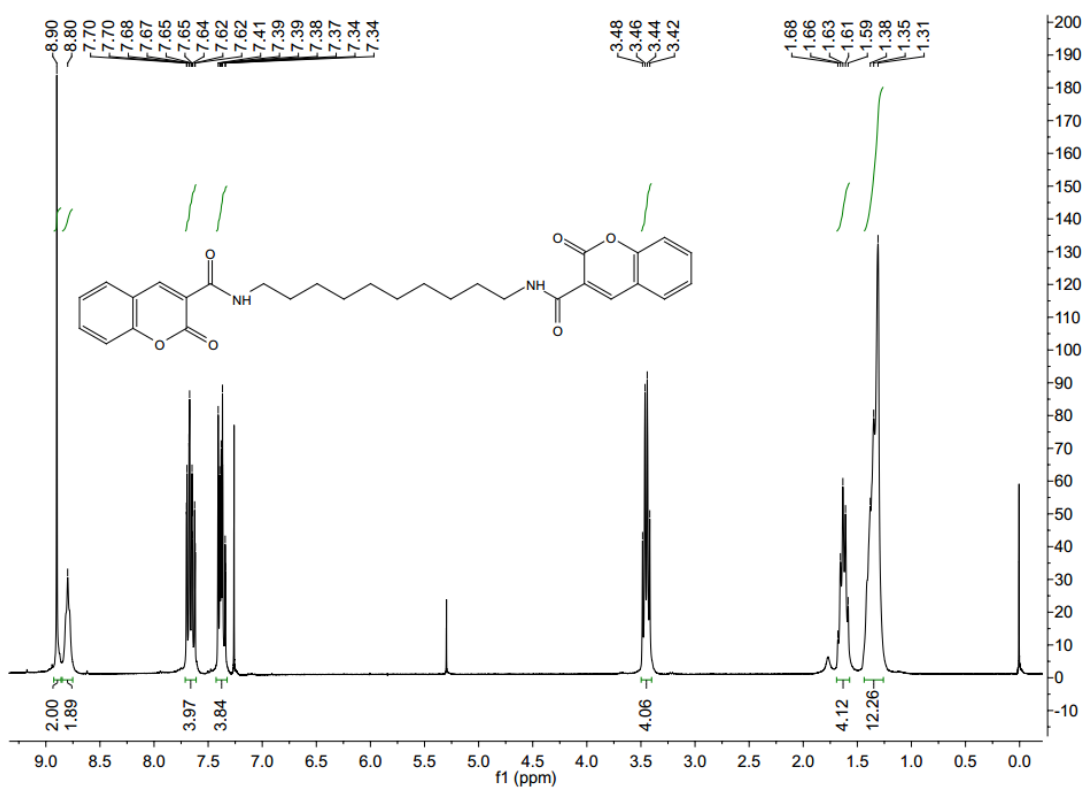


Figure S78  $^1\text{H}$  NMR spectrum of compound **20e**.

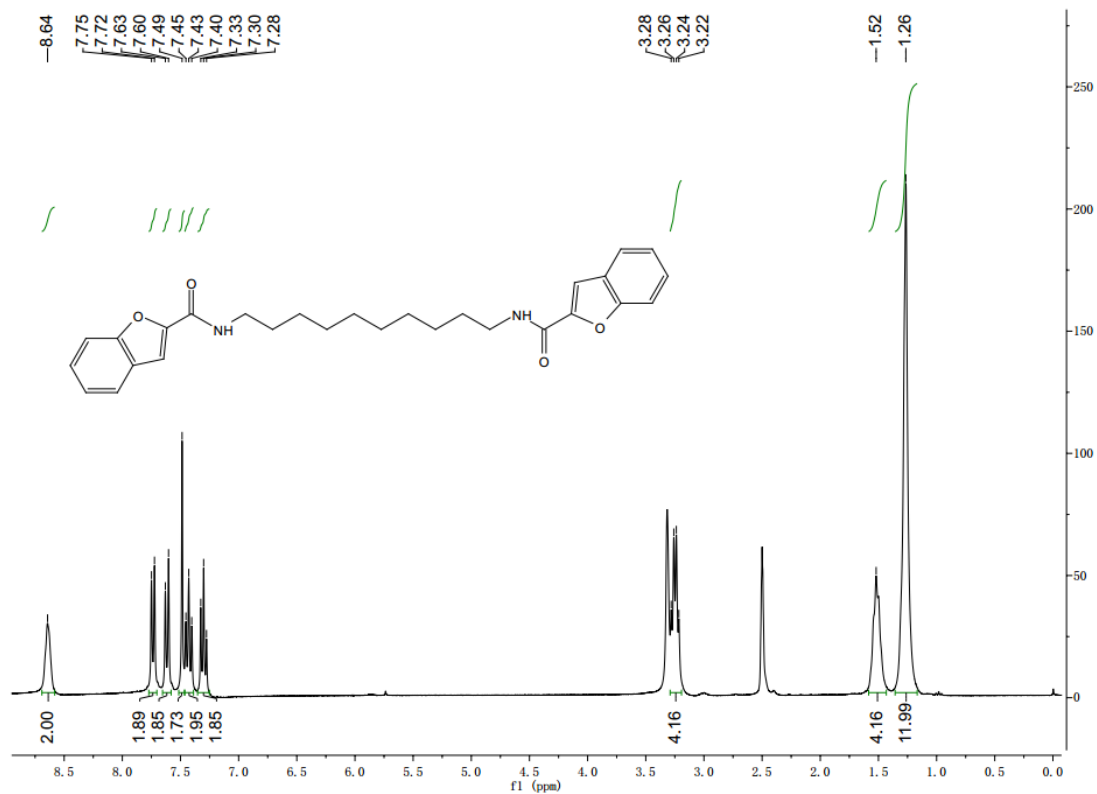


Figure S79  $^1\text{H}$  NMR spectrum of compound **21e**.

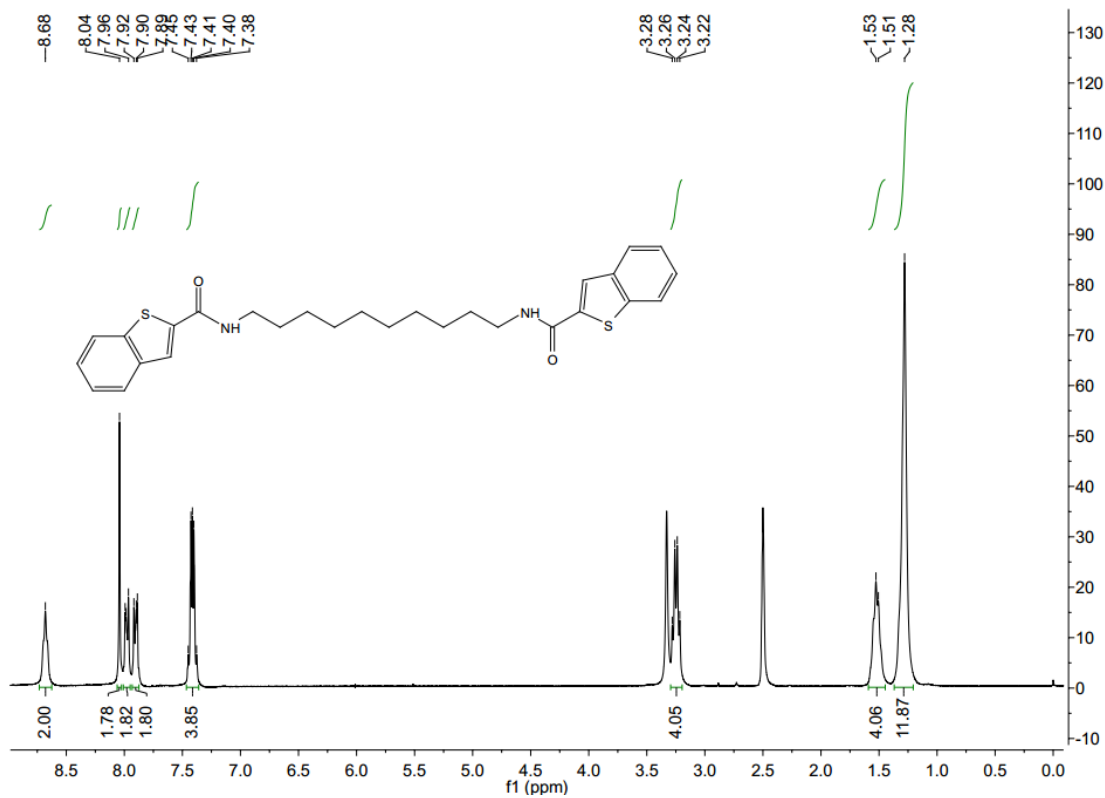


Figure S80  $^1\text{H}$  NMR spectrum of compound **22e**.



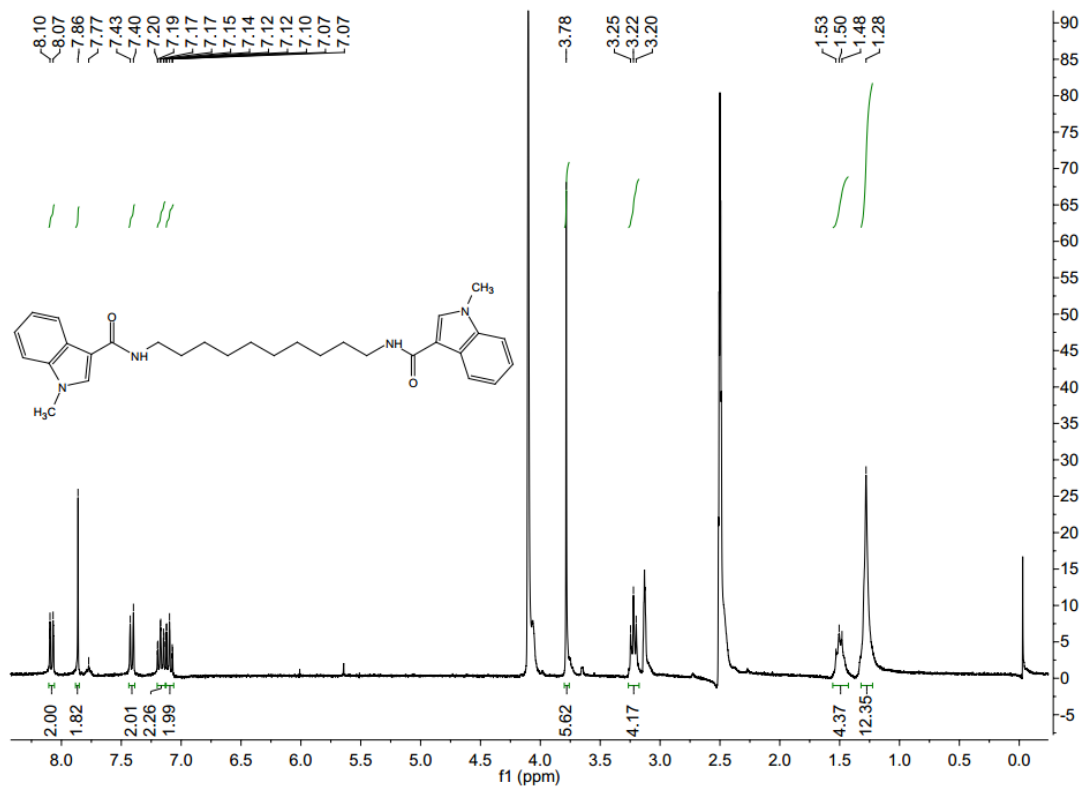


Figure S81  $^1\text{H}$  NMR spectrum of compound **23e**.

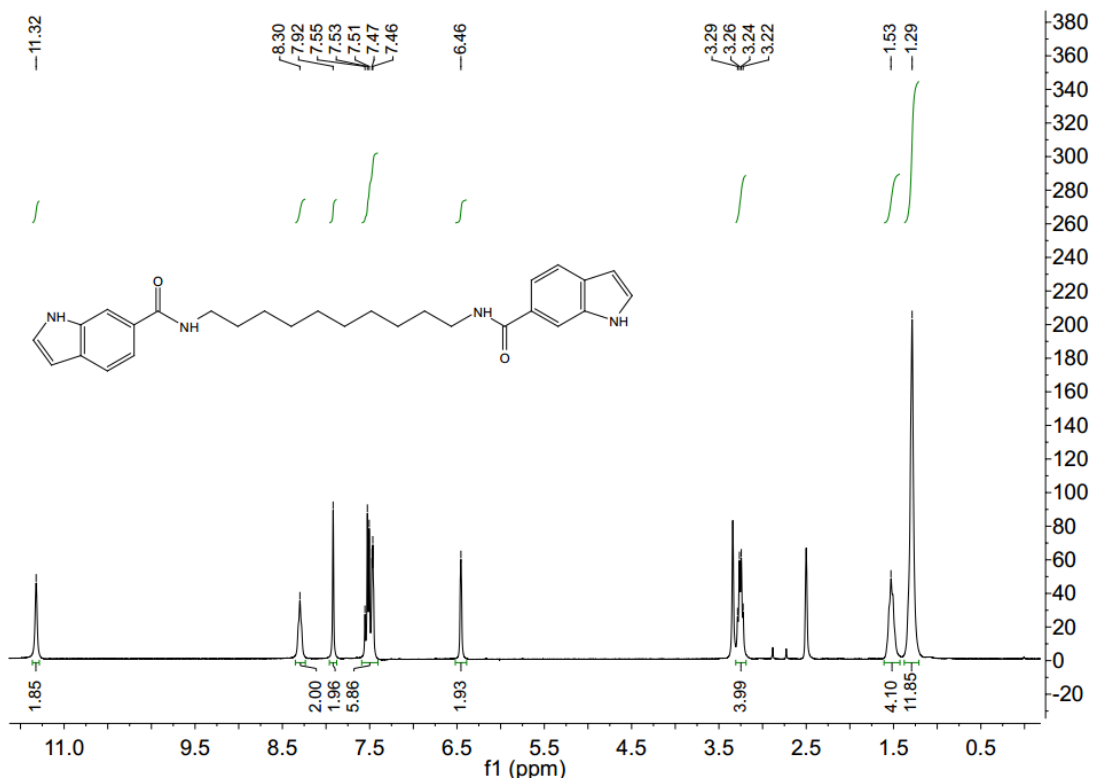


Figure S82  $^1\text{H}$  NMR spectrum of compound **24e**.

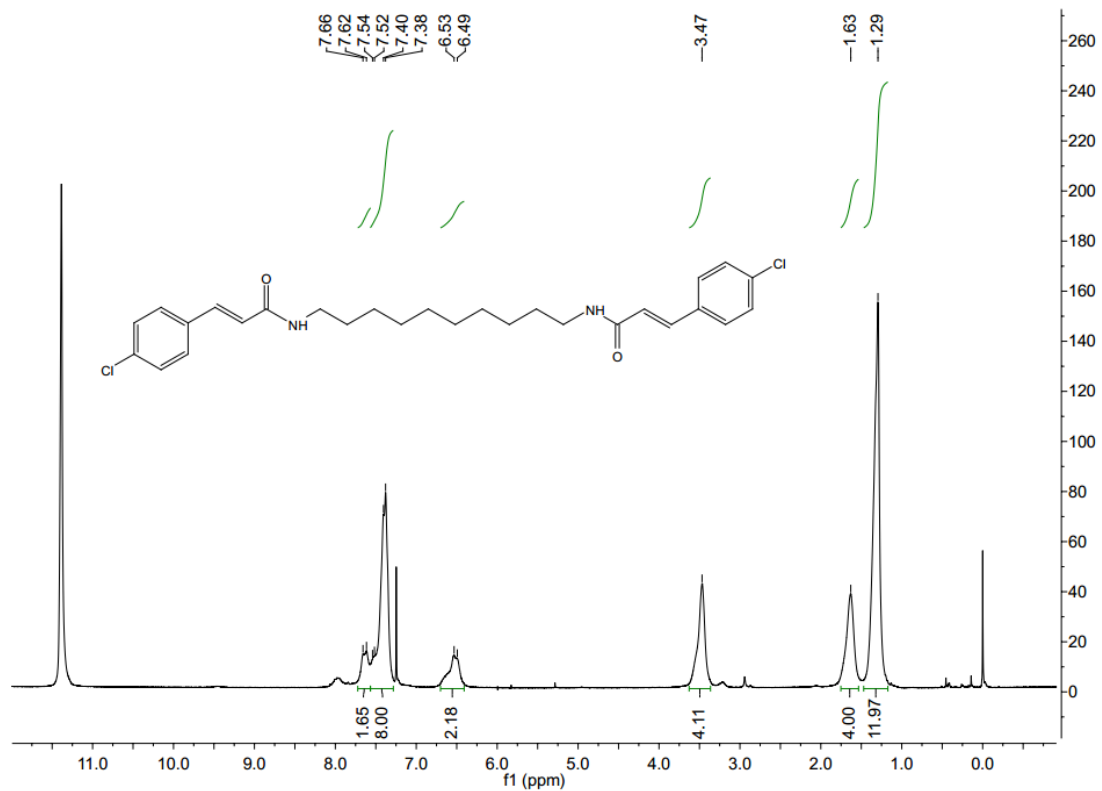


Figure S83  $^1\text{H}$  NMR spectrum of compound **25e**.

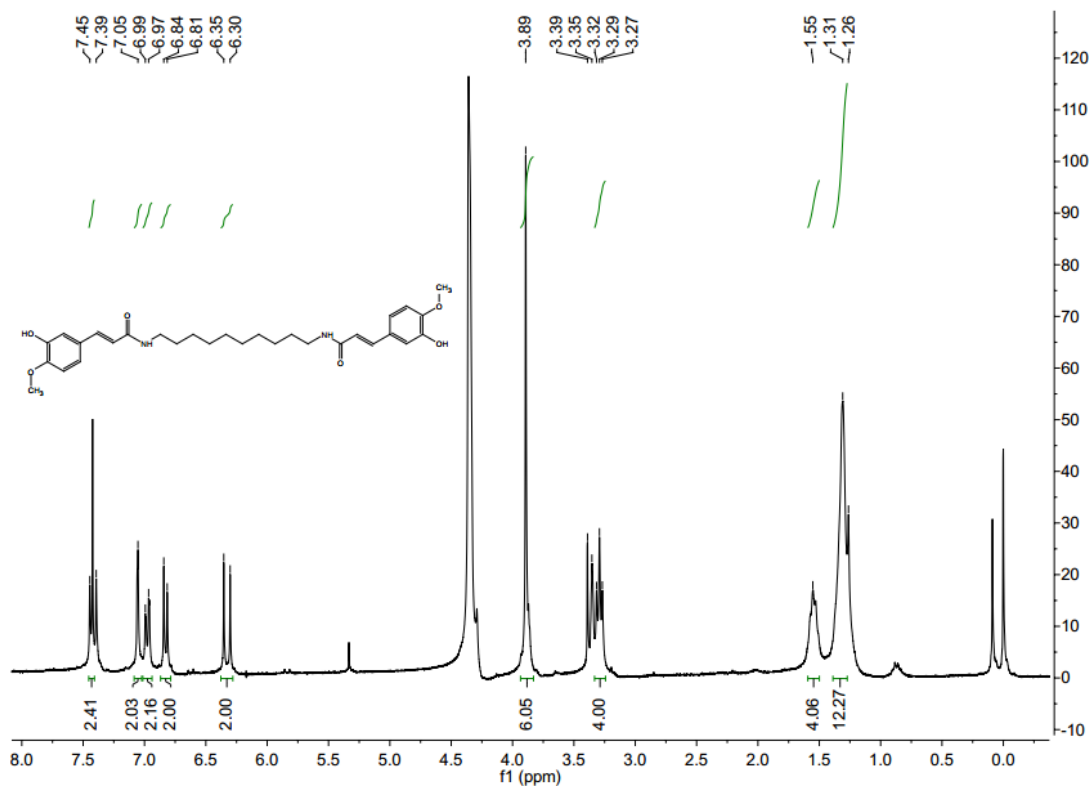


Figure S84  $^1\text{H}$  NMR spectrum of compound **26e**.

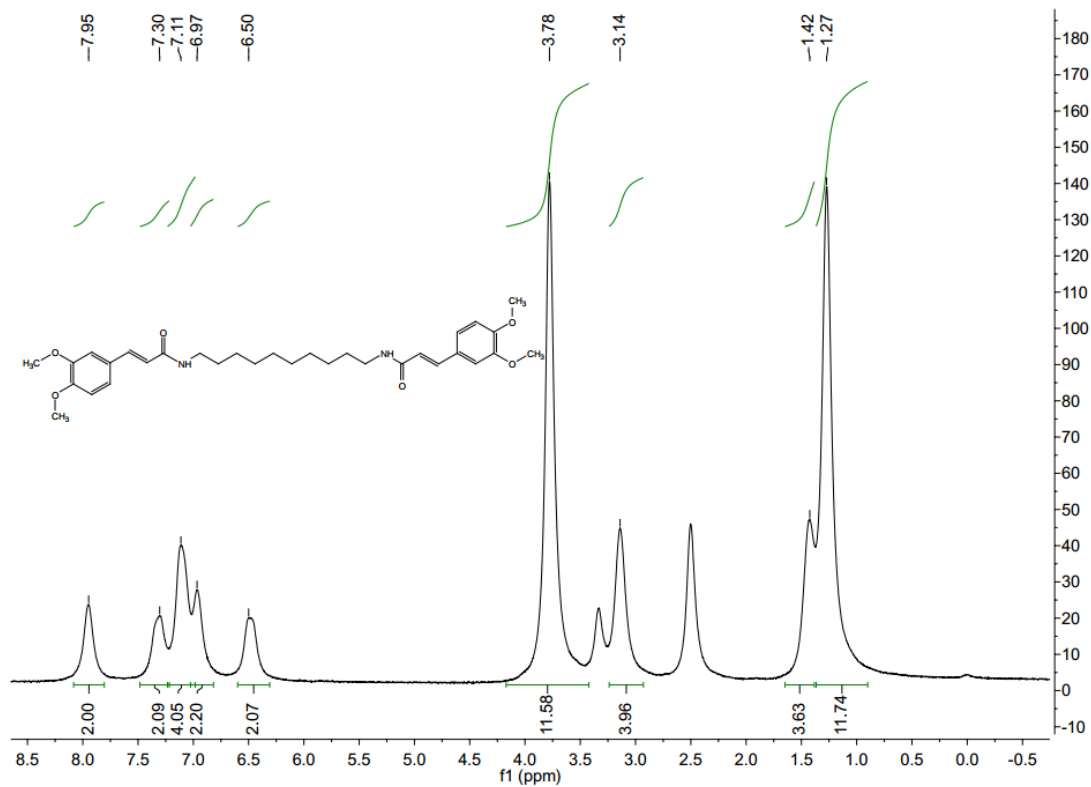


Figure S85  $^1\text{H}$  NMR spectrum of compound **27e**.

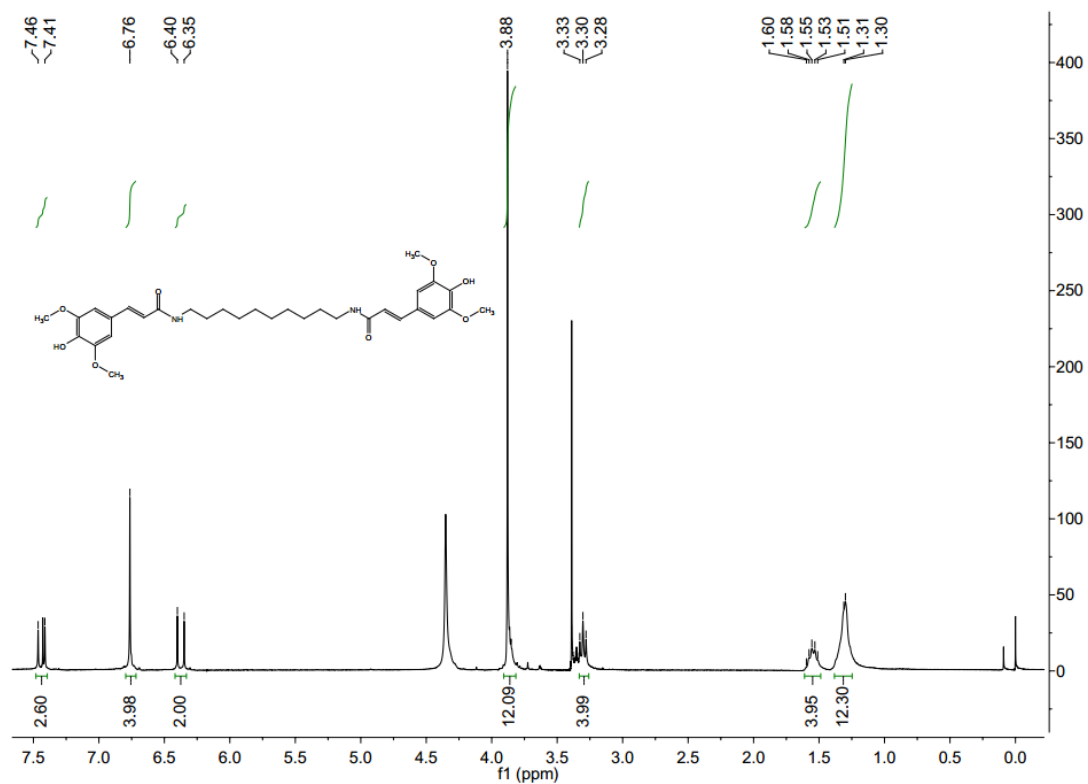


Figure S86  $^1\text{H}$  NMR spectrum of compound **28e**.

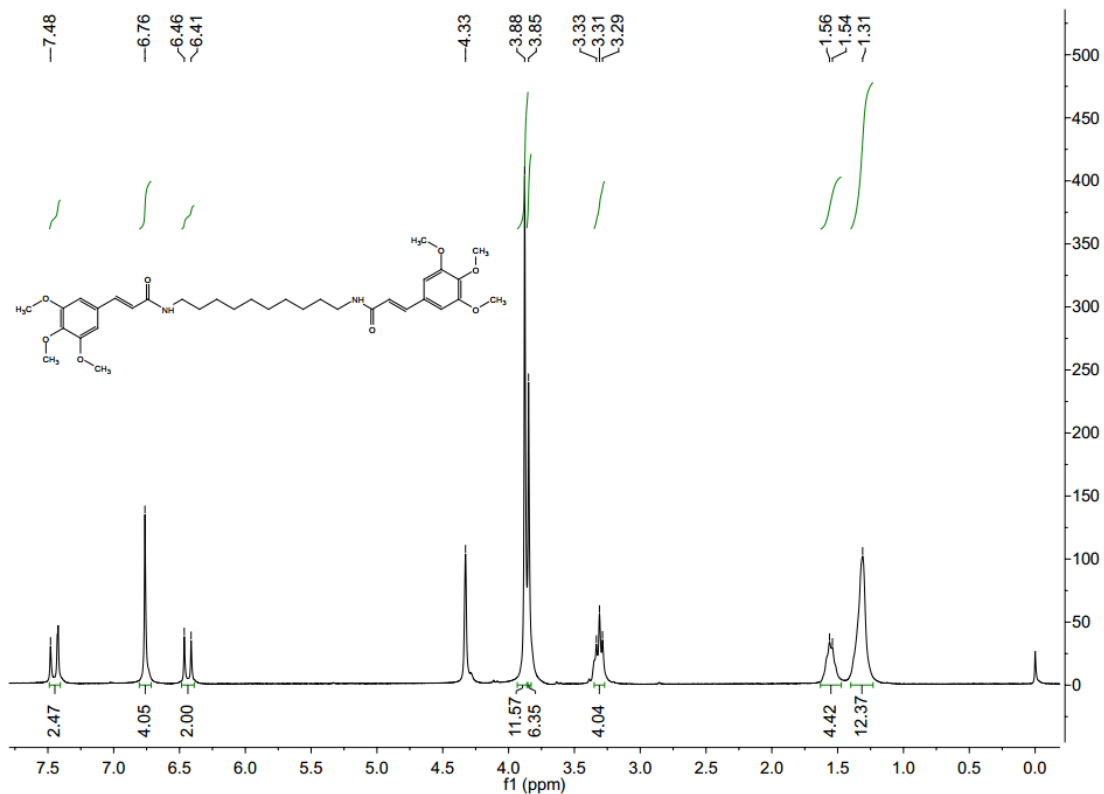


Figure S87  $^1\text{H}$  NMR spectrum of compound **29e**.

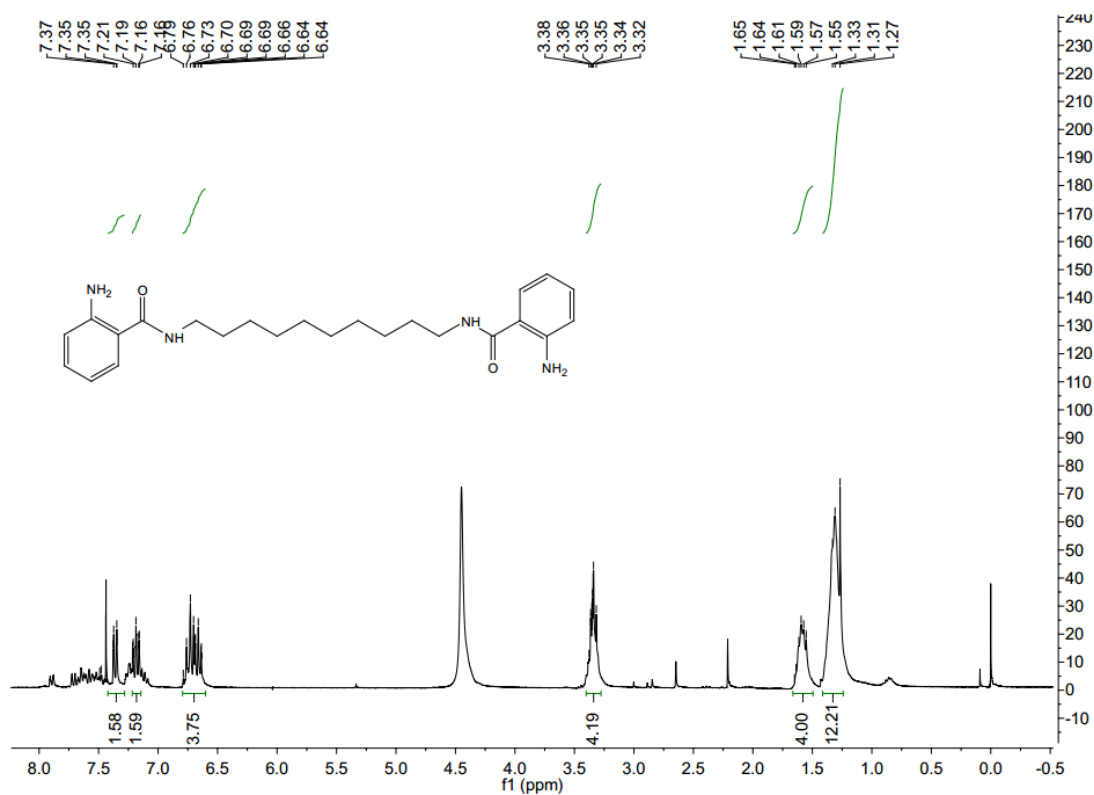


Figure S88  $^1\text{H}$  NMR spectrum of compound **30e**.

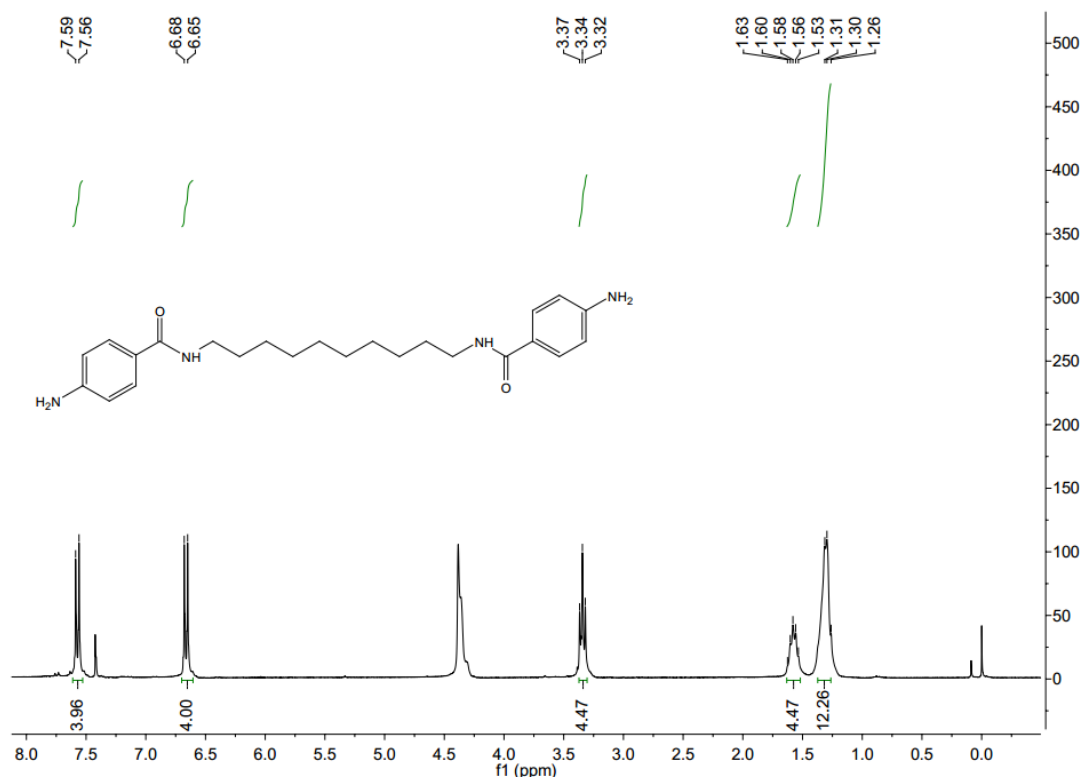


Figure S89 <sup>1</sup>H NMR spectrum of compound **31e**.

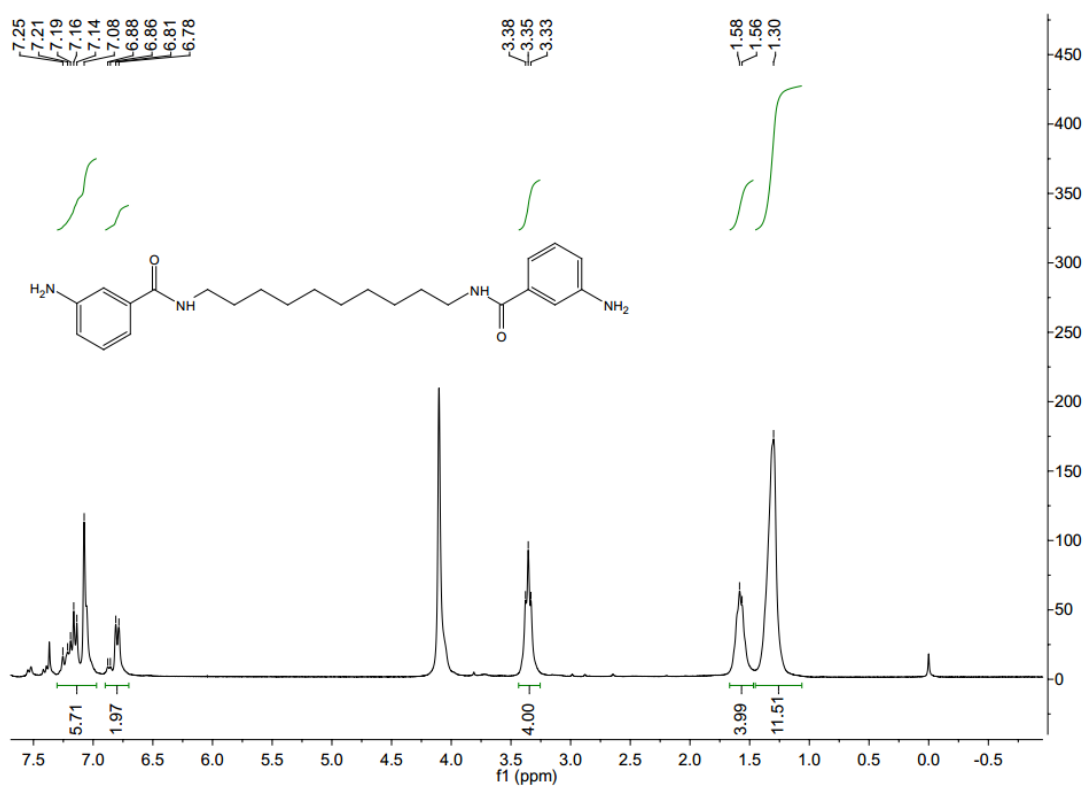


Figure S90 <sup>1</sup>H NMR spectrum of compound **32e**.

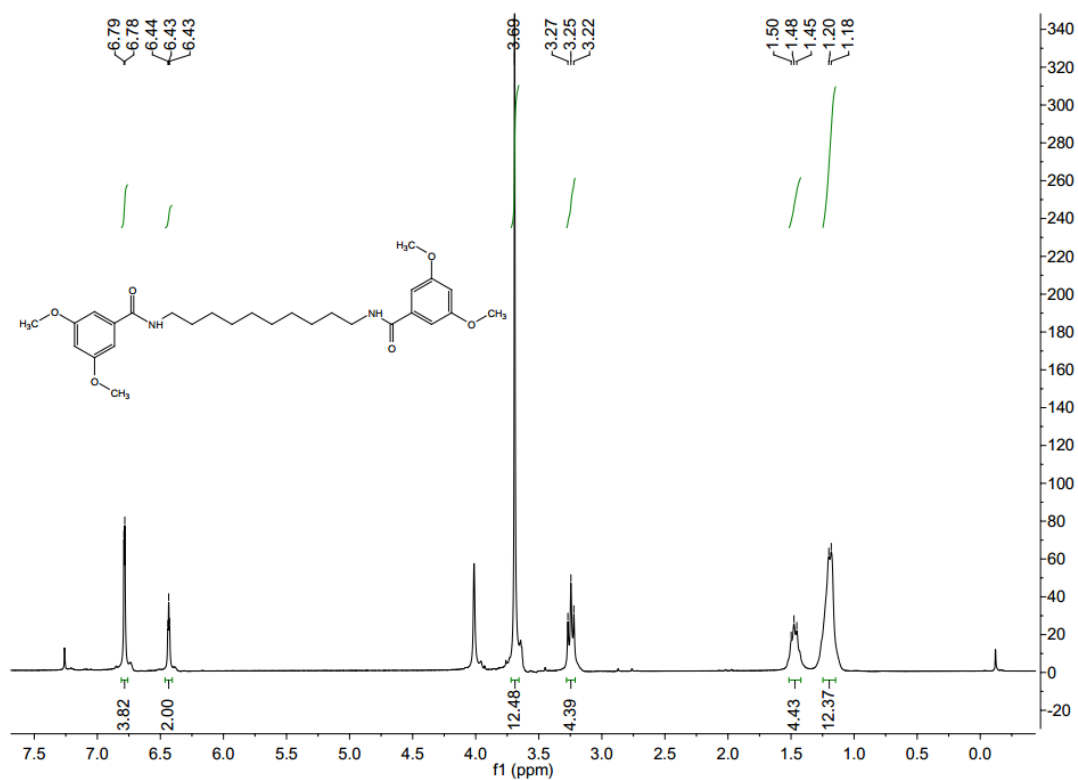


Figure S91  $^1\text{H}$  NMR spectrum of compound 33e.

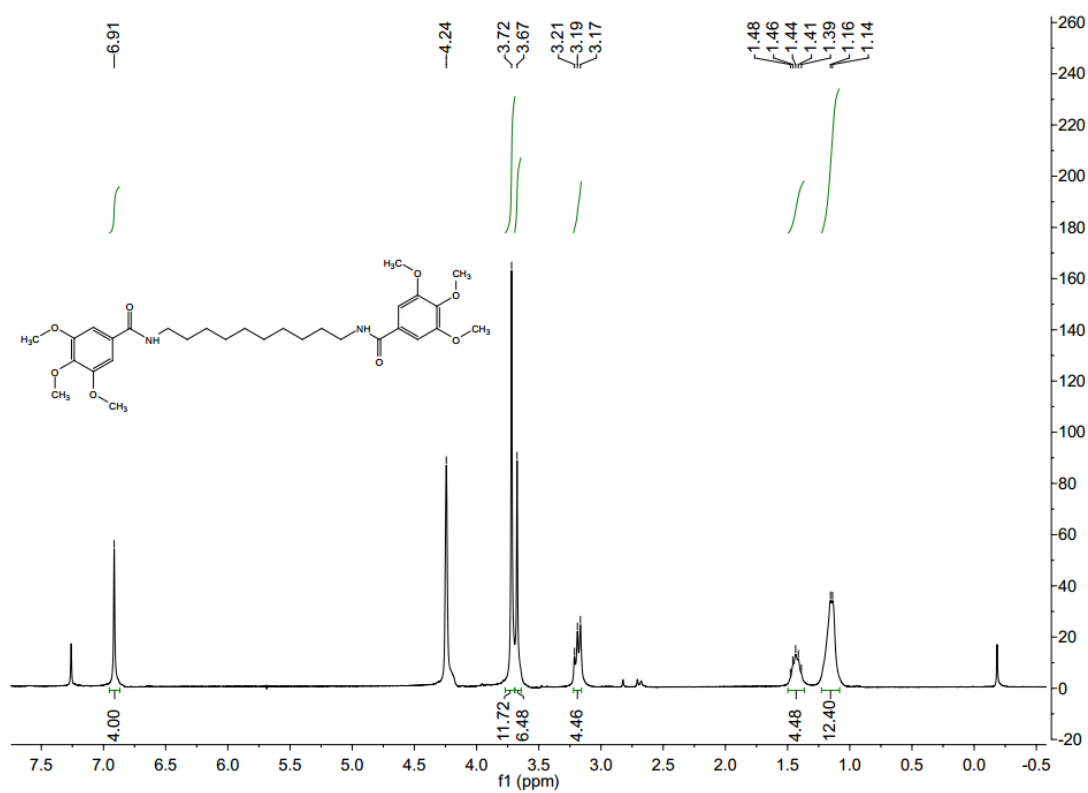


Figure S92  $^1\text{H}$  NMR spectrum of compound 34e.

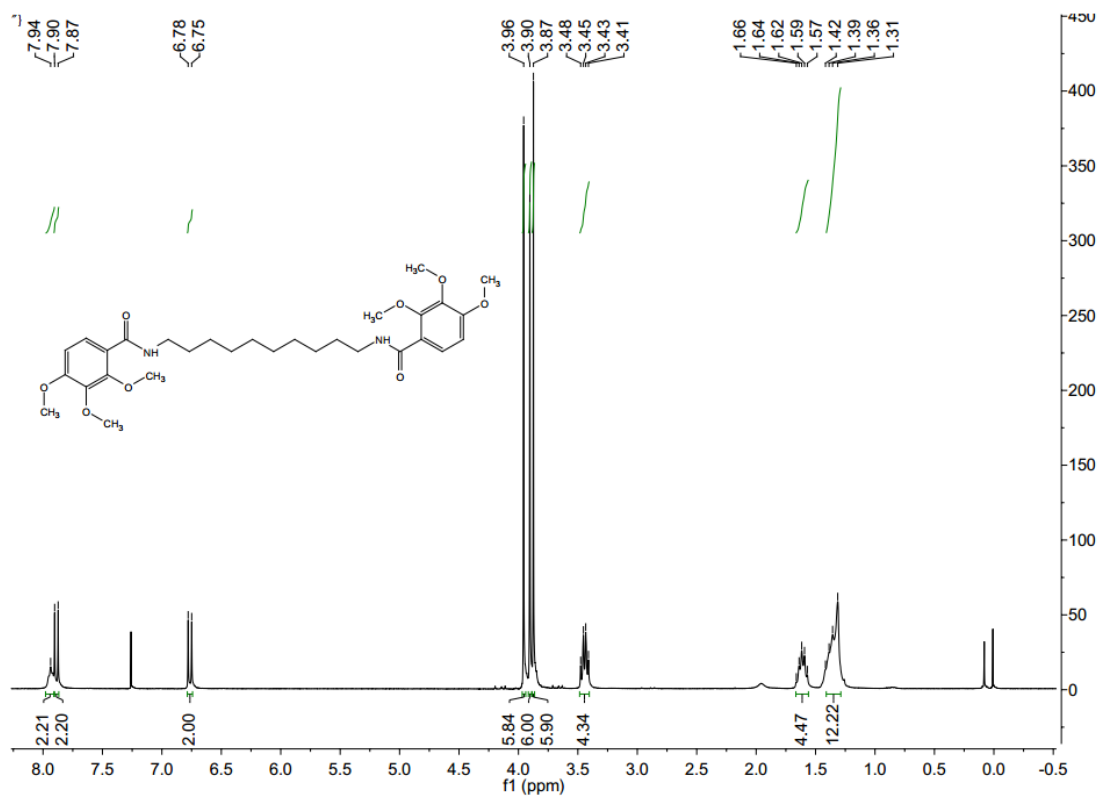


Figure S93  $^1\text{H}$  NMR spectrum of compound **35e**.

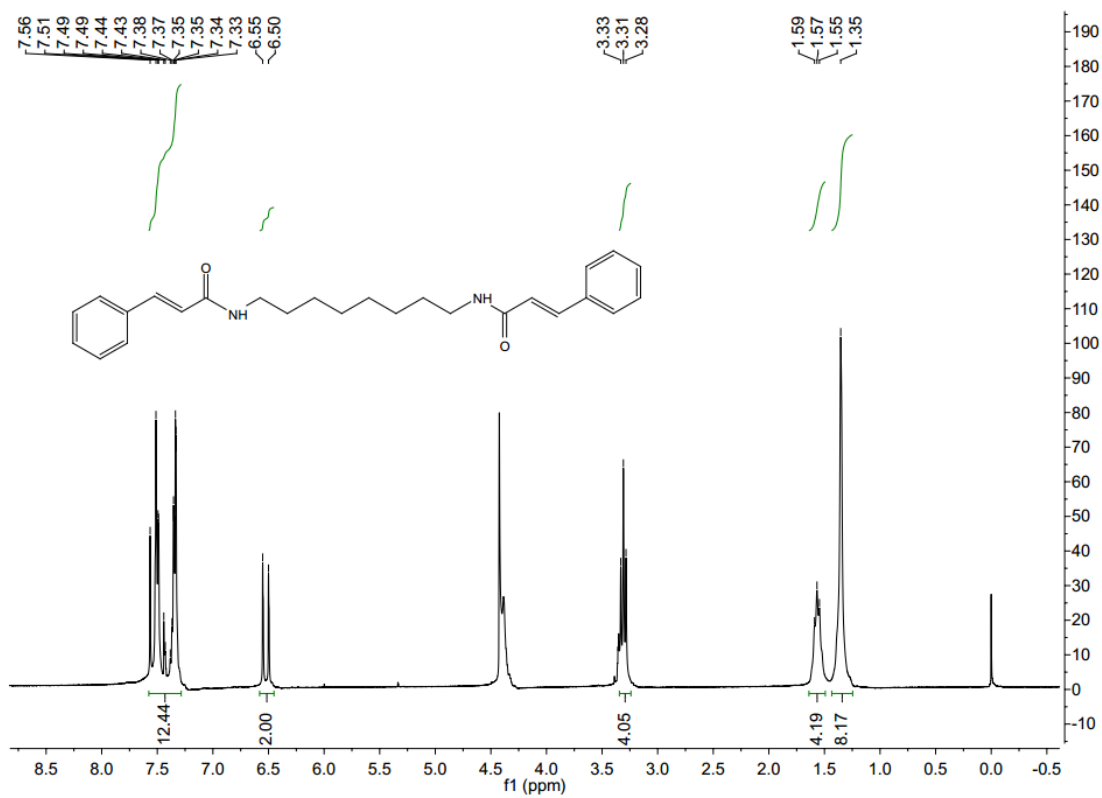


Figure S94  $^1\text{H}$  NMR spectrum of compound **9d**.

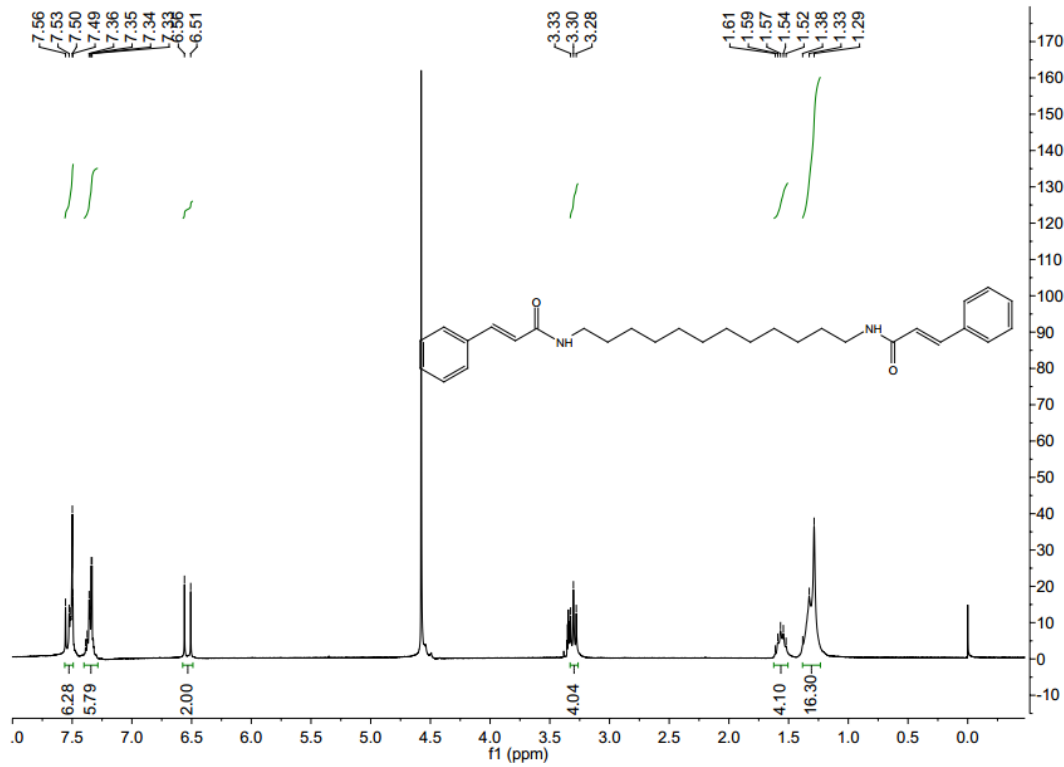


Figure S95  $^1\text{H}$  NMR spectrum of compound **9f**.

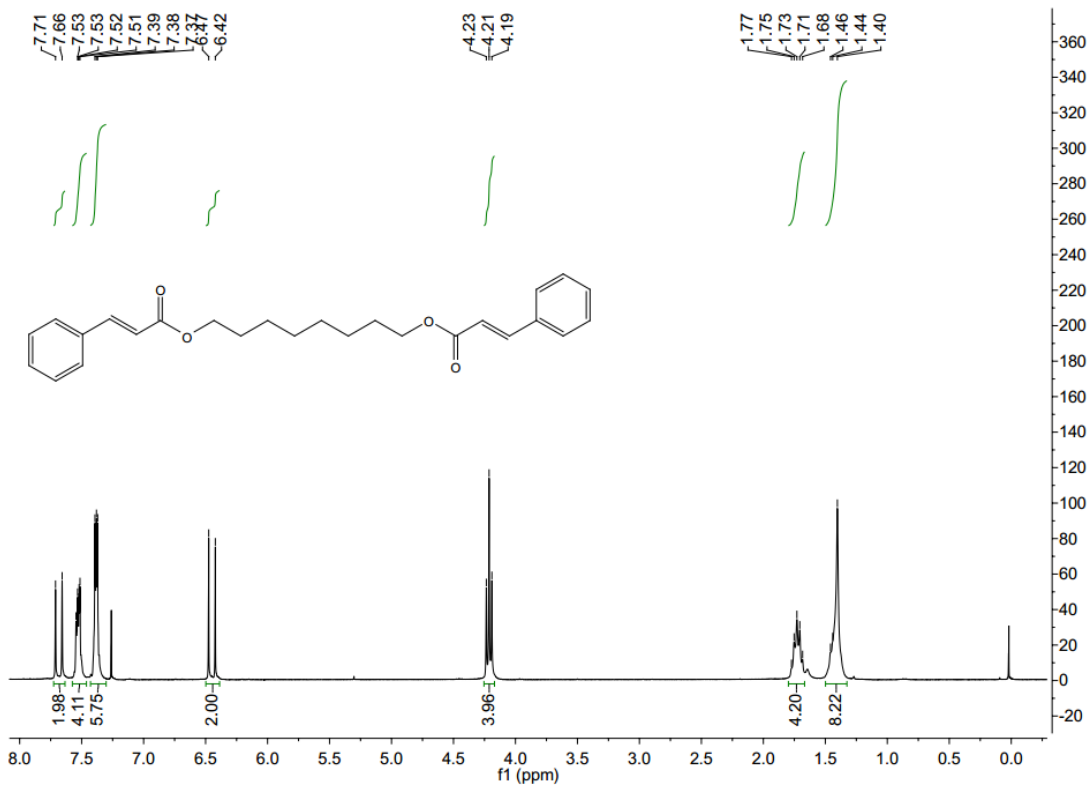


Figure S96  $^1\text{H}$  NMR spectrum of compound **9g**.



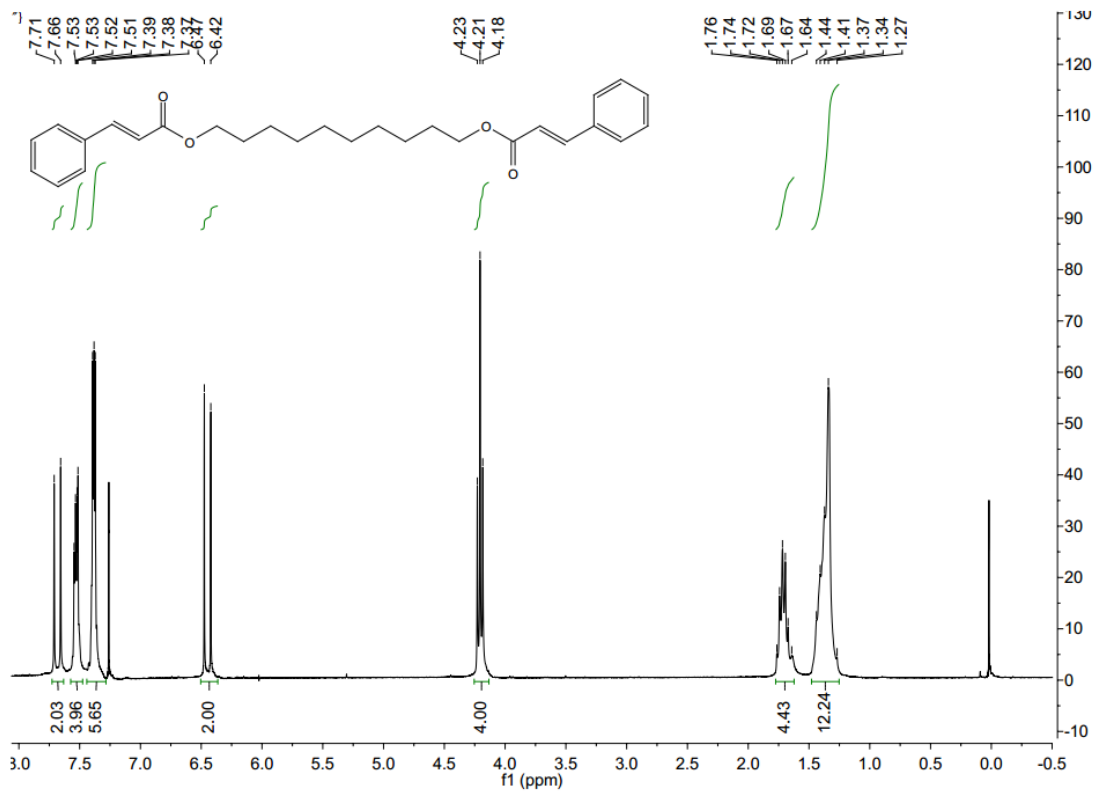


Figure S97  $^1\text{H}$  NMR spectrum of compound **9h**.

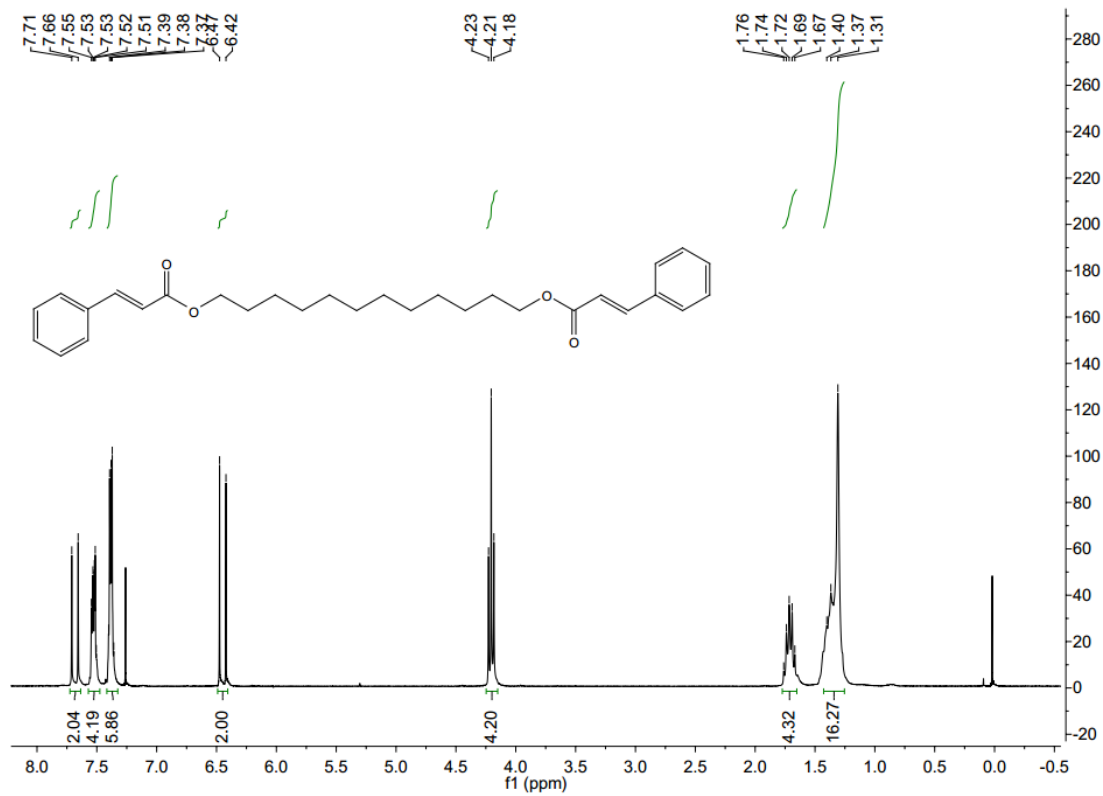


Figure S98  $^1\text{H}$  NMR spectrum of compound **9i**.

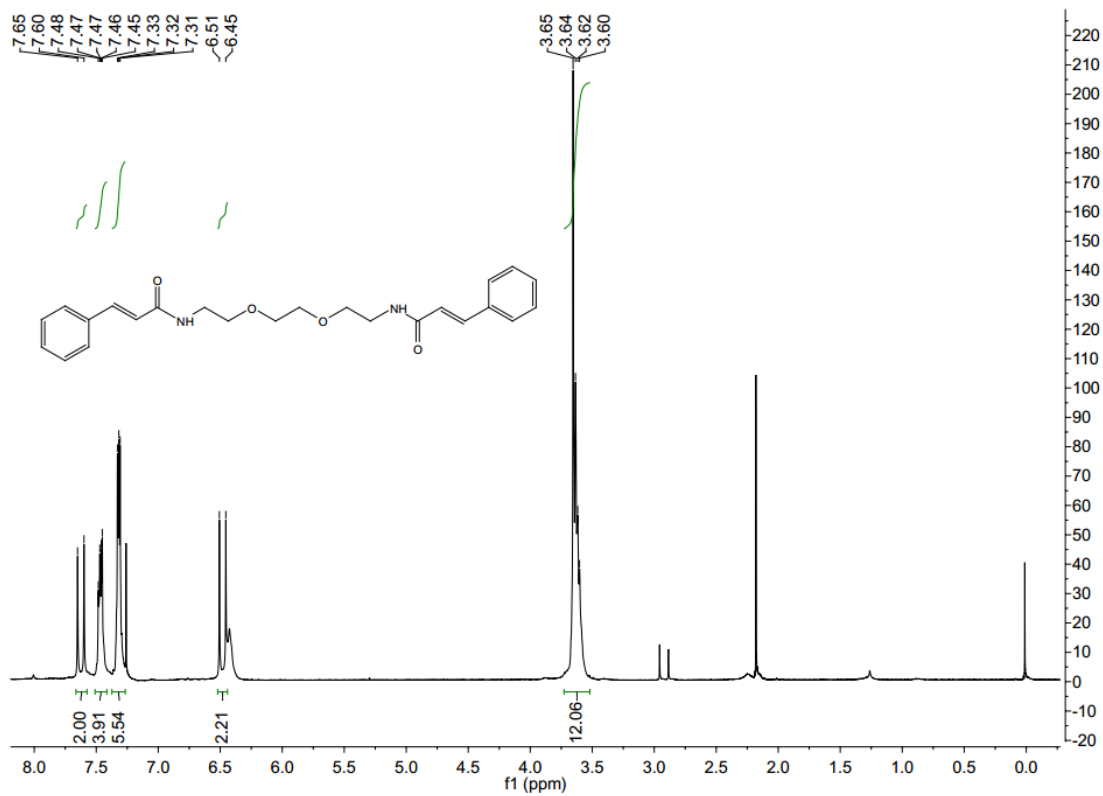


Figure S99  $^1\text{H}$  NMR spectrum of compound **9j**.

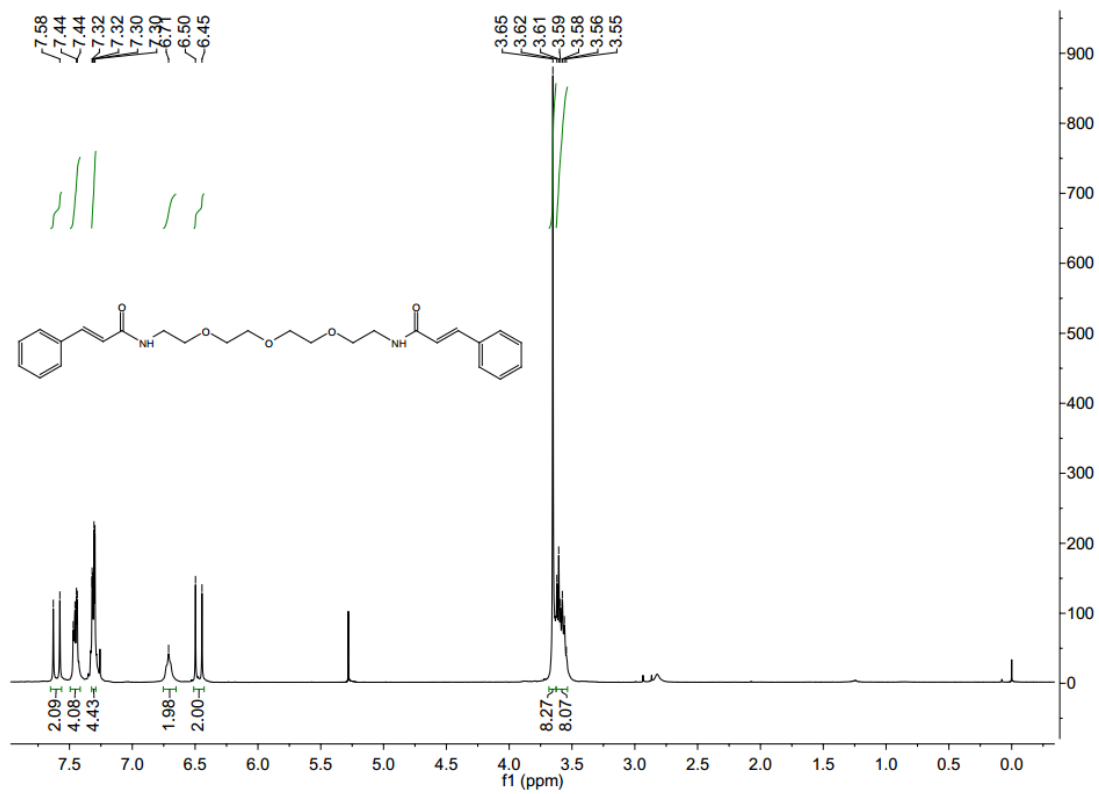


Figure S100  $^1\text{H}$  NMR spectrum of compound **9k**.

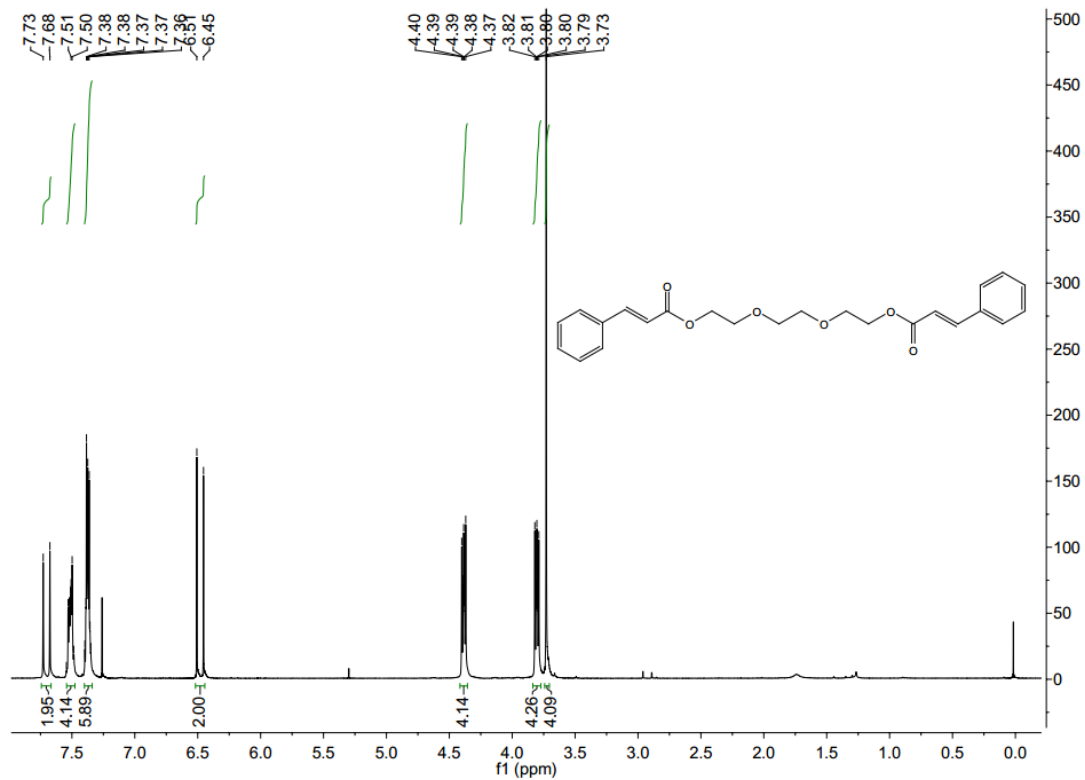


Figure S101  $^1\text{H}$  NMR spectrum of compound **9l**.

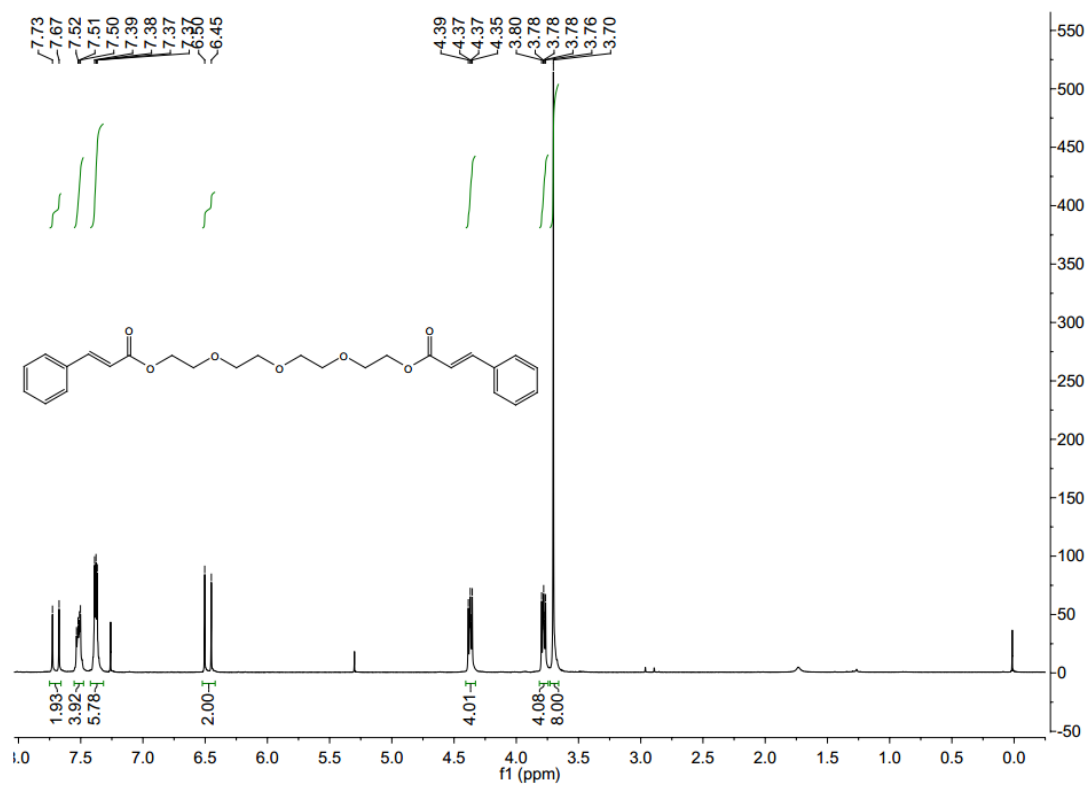


Figure S102  $^1\text{H}$  NMR spectrum of compound **9m**.

$^{13}\text{C}$ -NMR

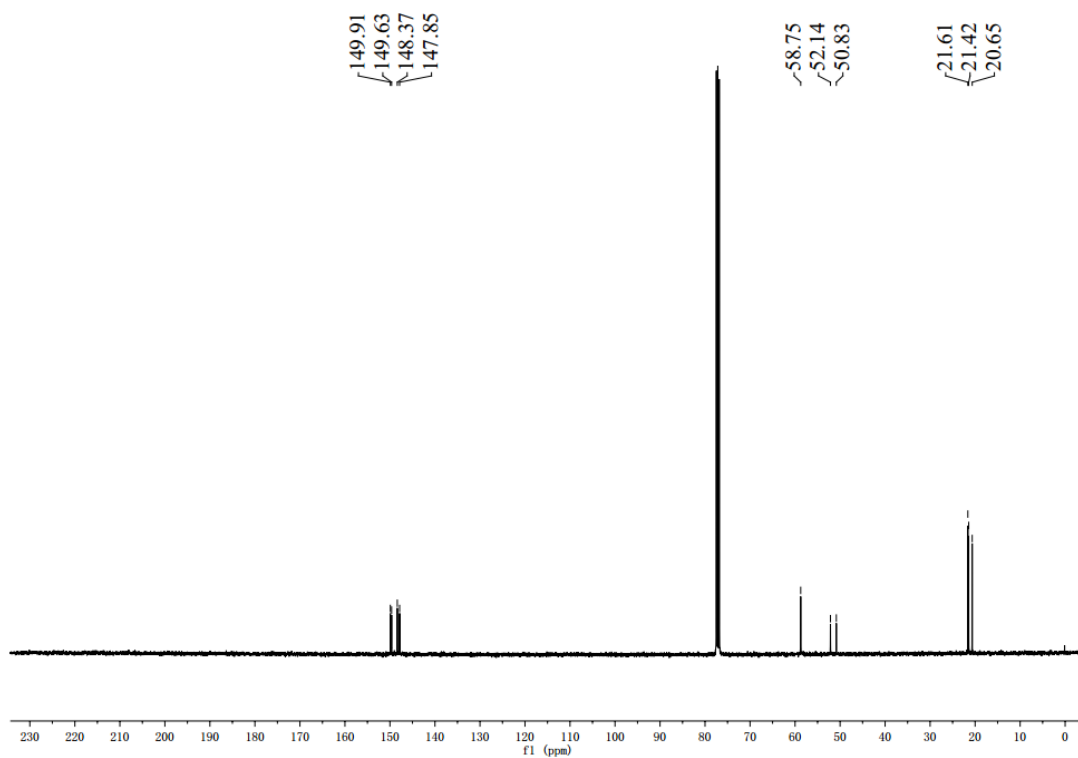


Figure S103 <sup>13</sup>C NMR spectrum of compound **6a**.

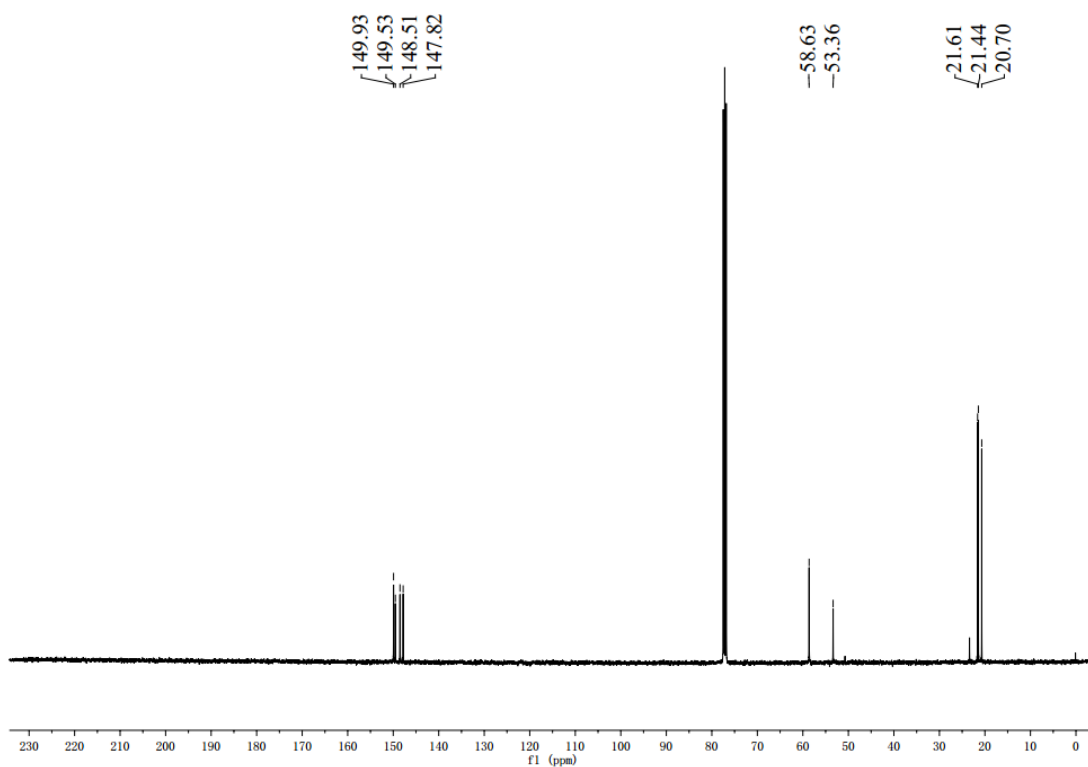


Figure S104 <sup>13</sup>C NMR spectrum of compound **6b**.

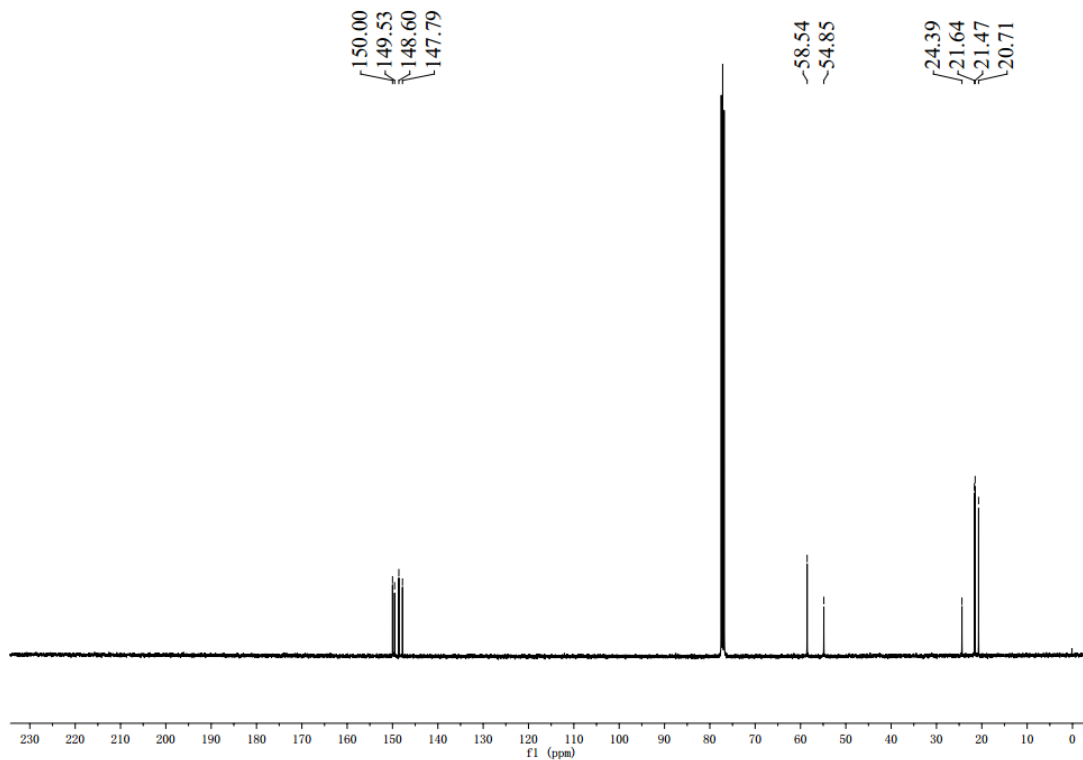


Figure S105 <sup>13</sup>C NMR spectrum of compound **6c**.

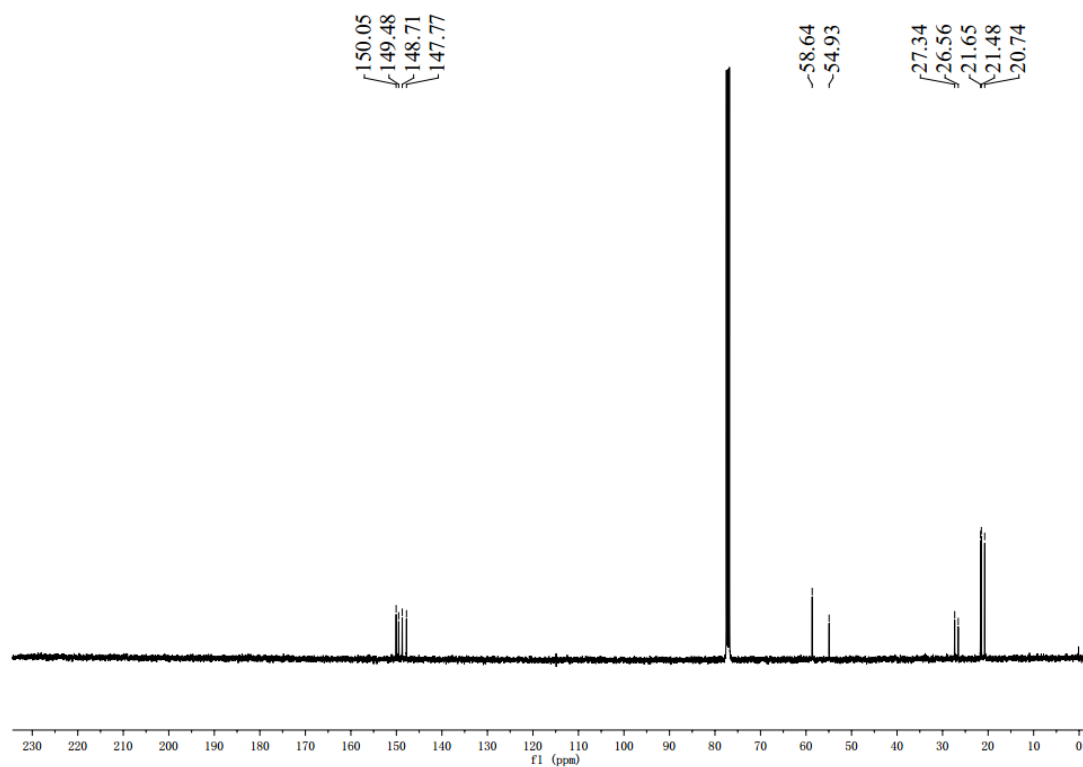


Figure S106 <sup>13</sup>C NMR spectrum of compound **6d**.

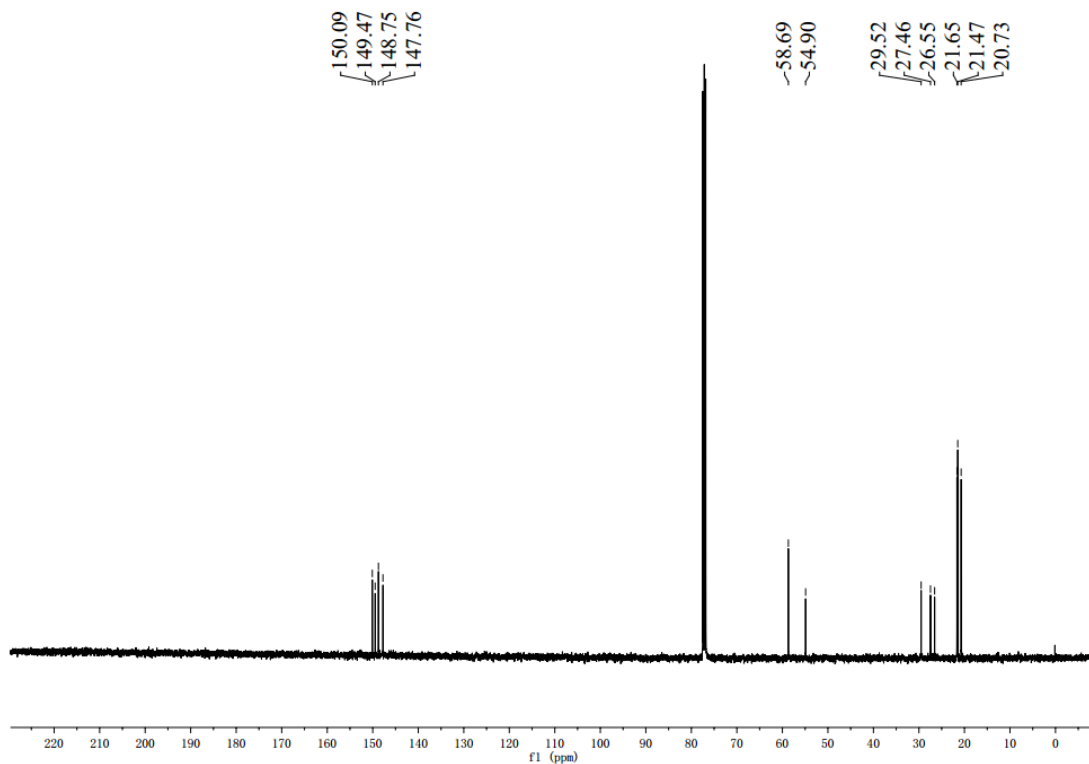


Figure S107  $^{13}\text{C}$  NMR spectrum of compound **6e**.

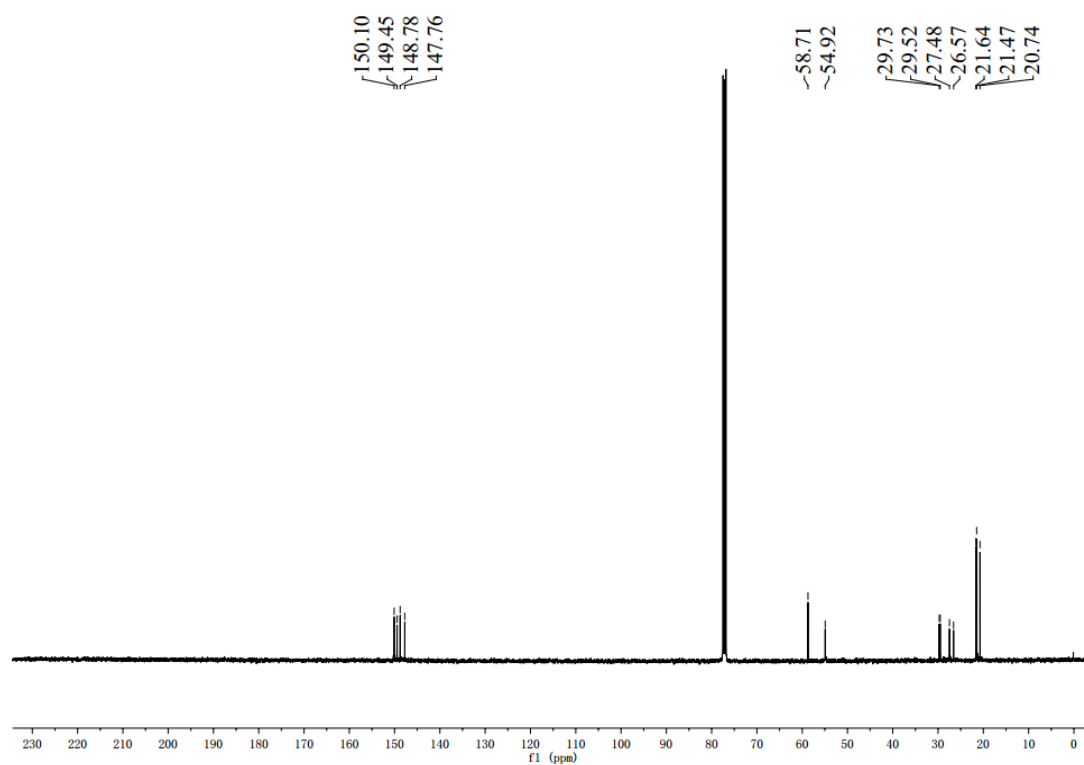


Figure S108  $^{13}\text{C}$  NMR spectrum of compound **6f**.

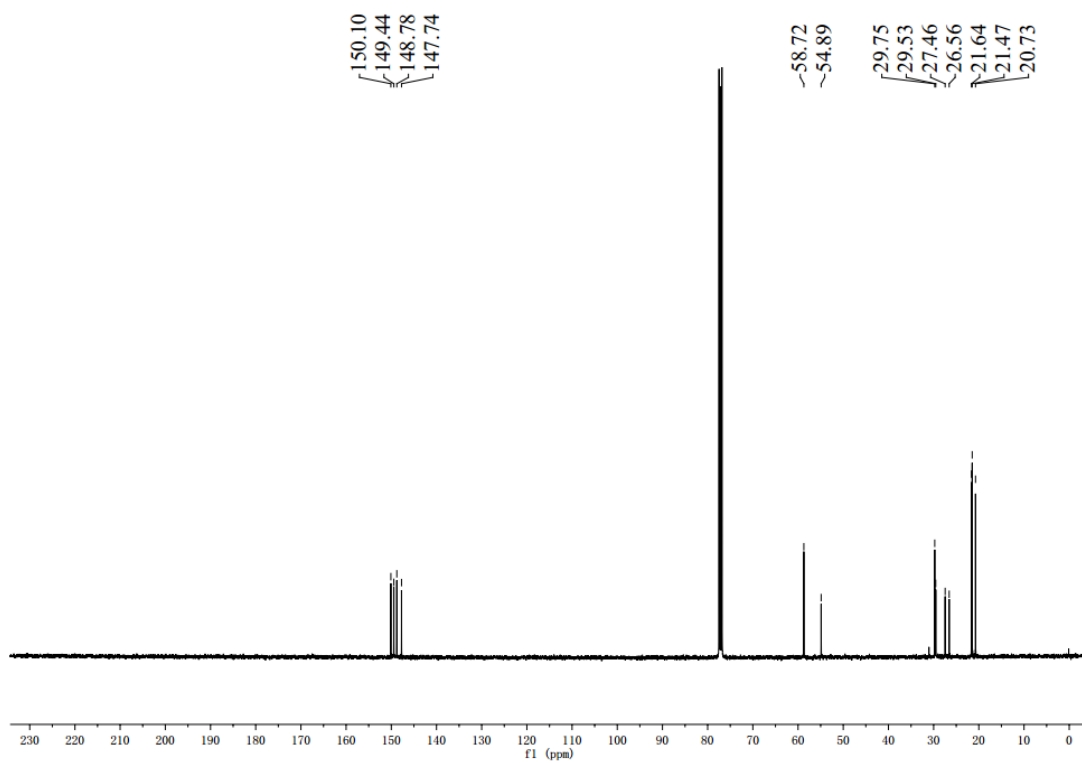


Figure S109  $^{13}\text{C}$  NMR spectrum of compound **6g**.

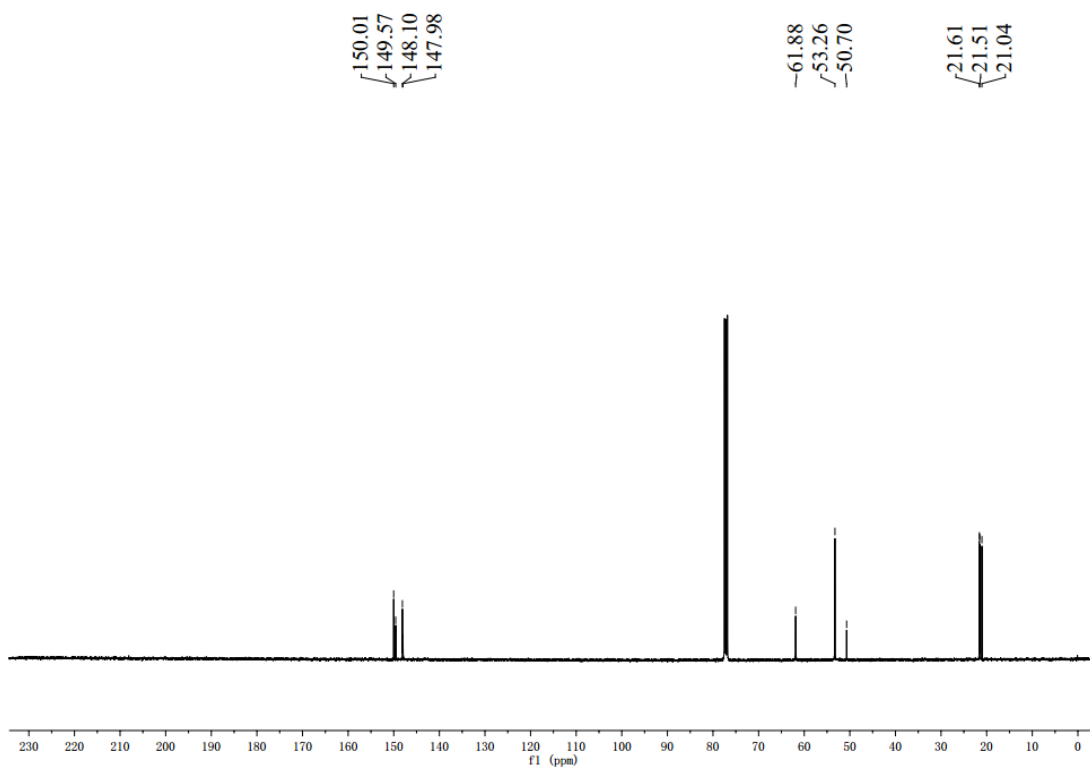


Figure S110  $^{13}\text{C}$  NMR spectrum of compound **6h**.

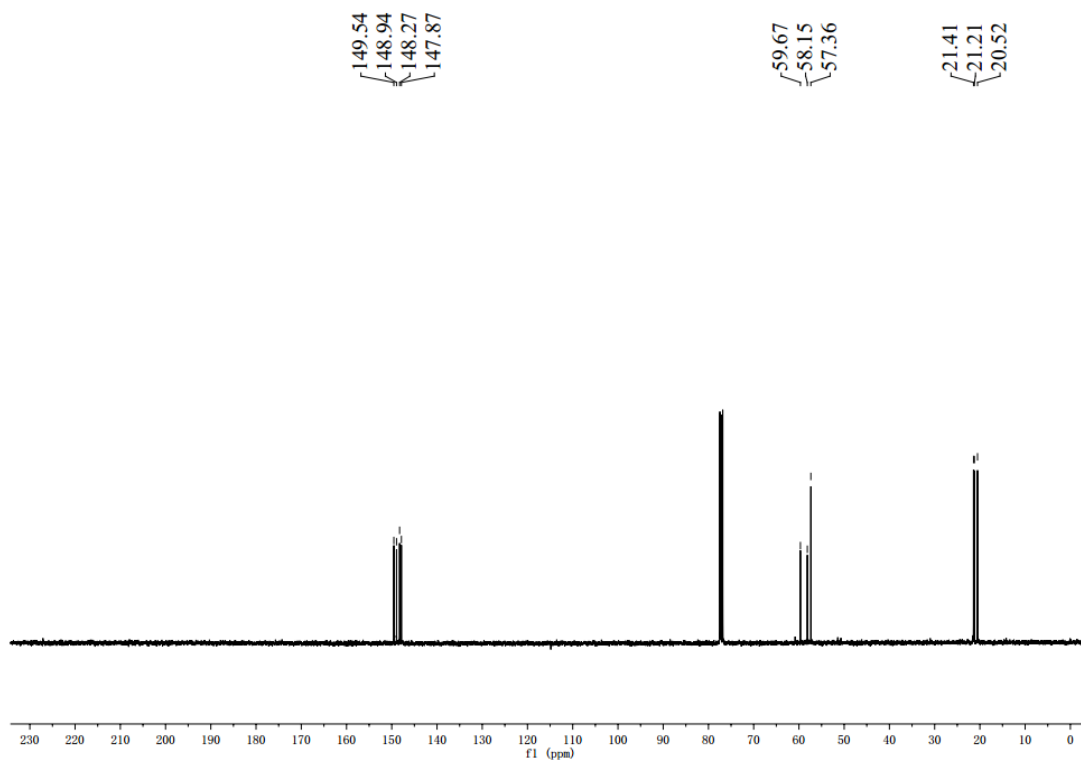


Figure S111  $^{13}\text{C}$  NMR spectrum of compound **6i**.

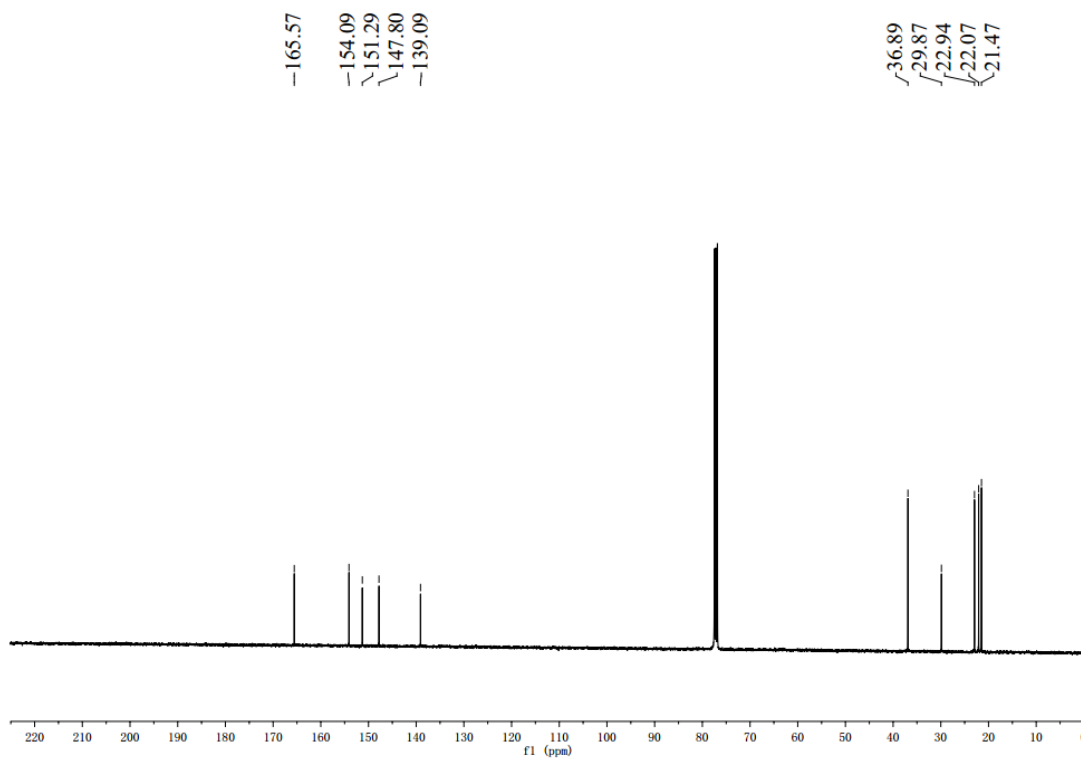


Figure S112  $^{13}\text{C}$  NMR spectrum of compound **8a**.



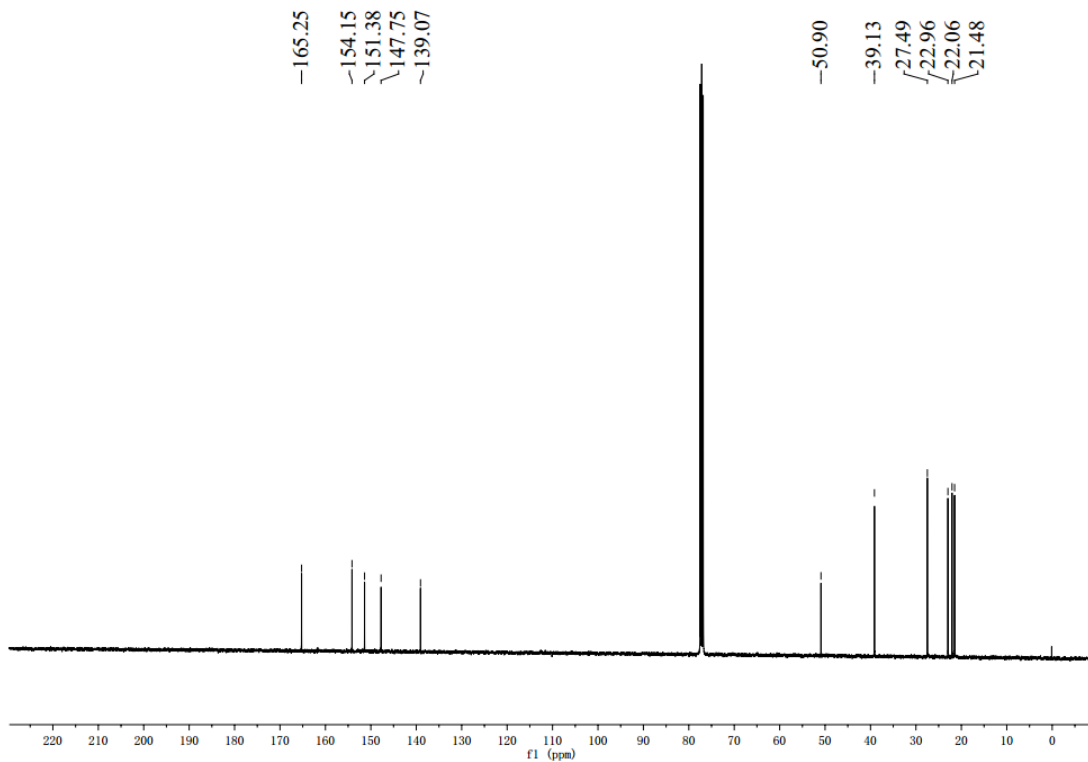


Figure S113  $^{13}\text{C}$  NMR spectrum of compound **8b**.

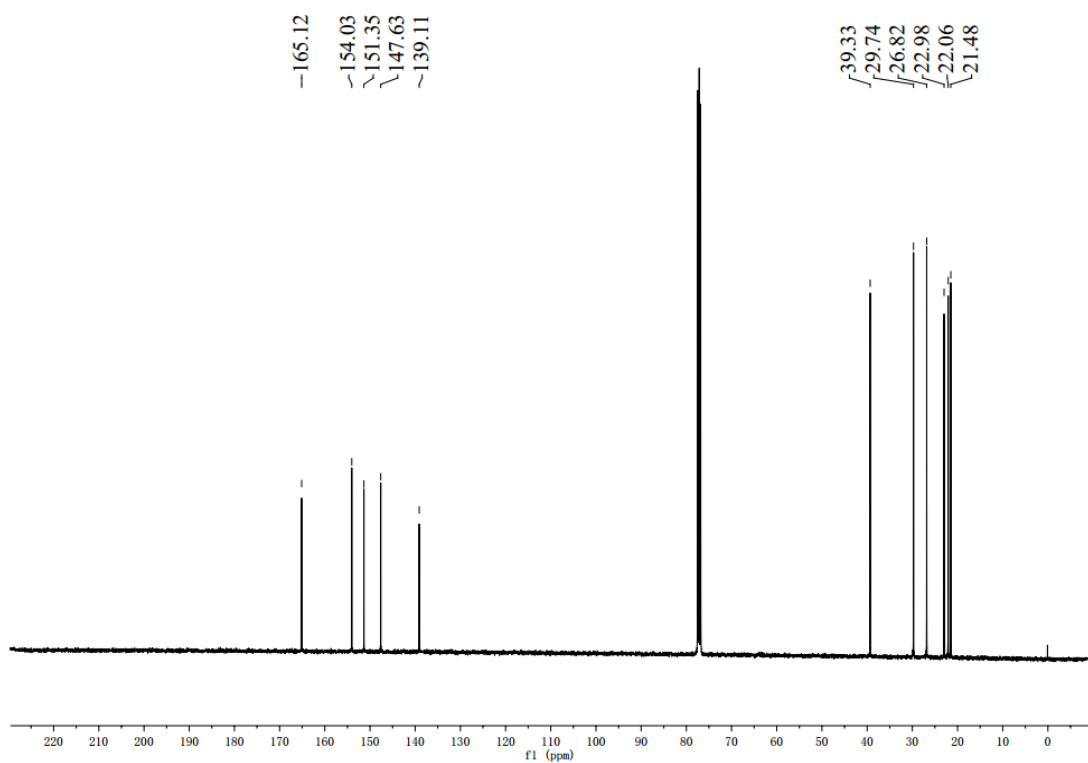


Figure S114  $^{13}\text{C}$  NMR spectrum of compound **8c**.

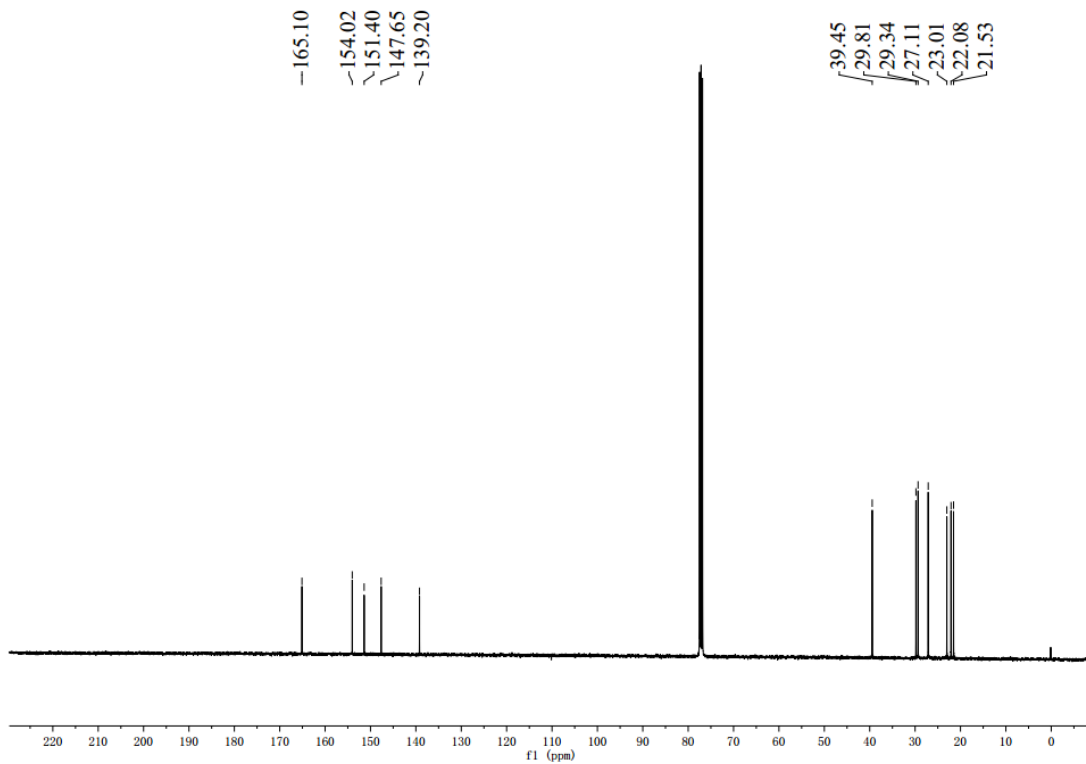


Figure S115 <sup>13</sup>C NMR spectrum of compound **8d**.

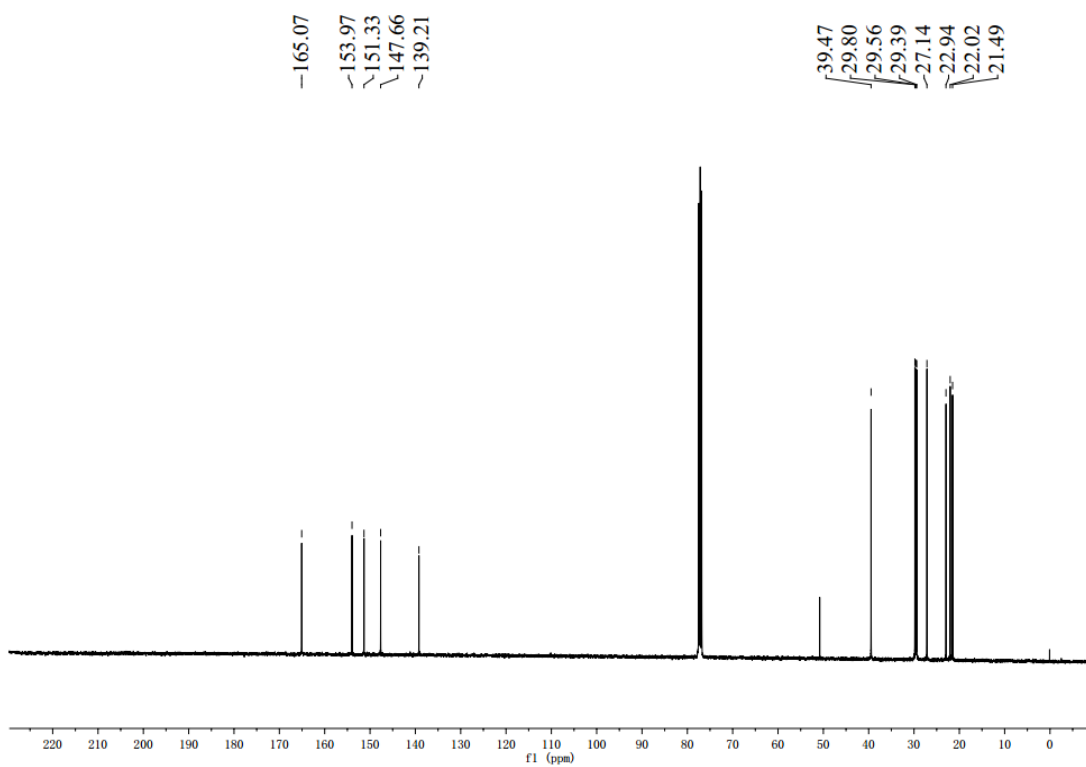


Figure S116 <sup>13</sup>C NMR spectrum of compound **8e**.

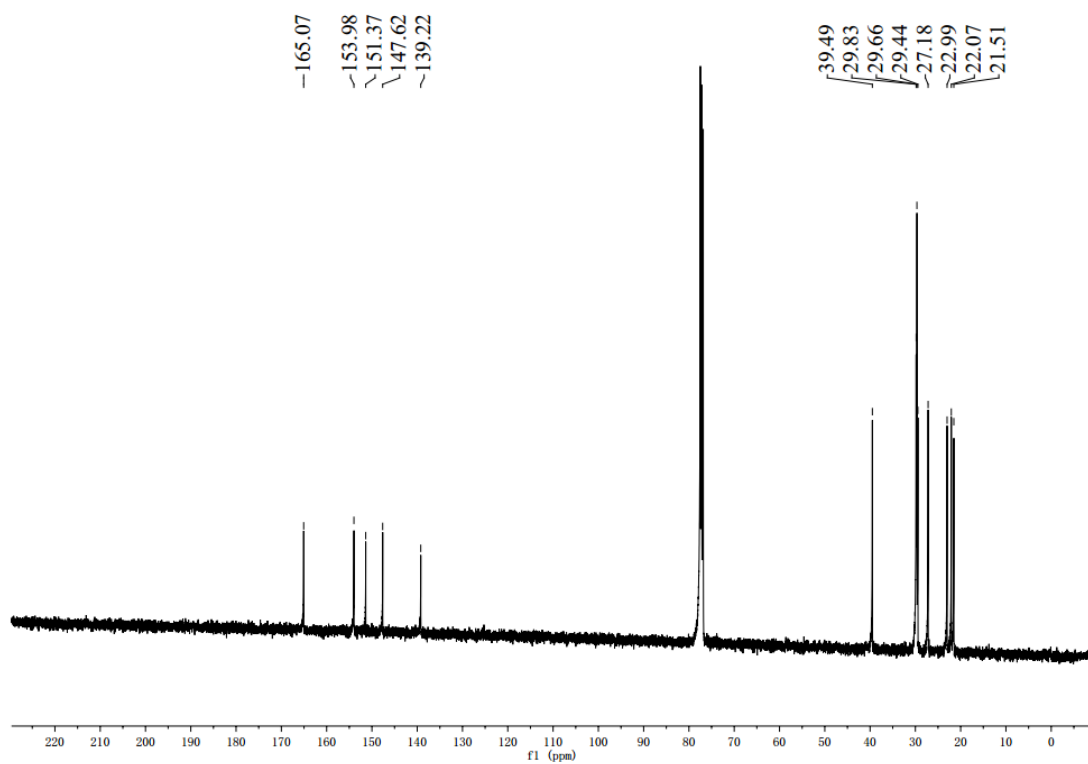


Figure S117  $^{13}\text{C}$  NMR spectrum of compound **8f**.

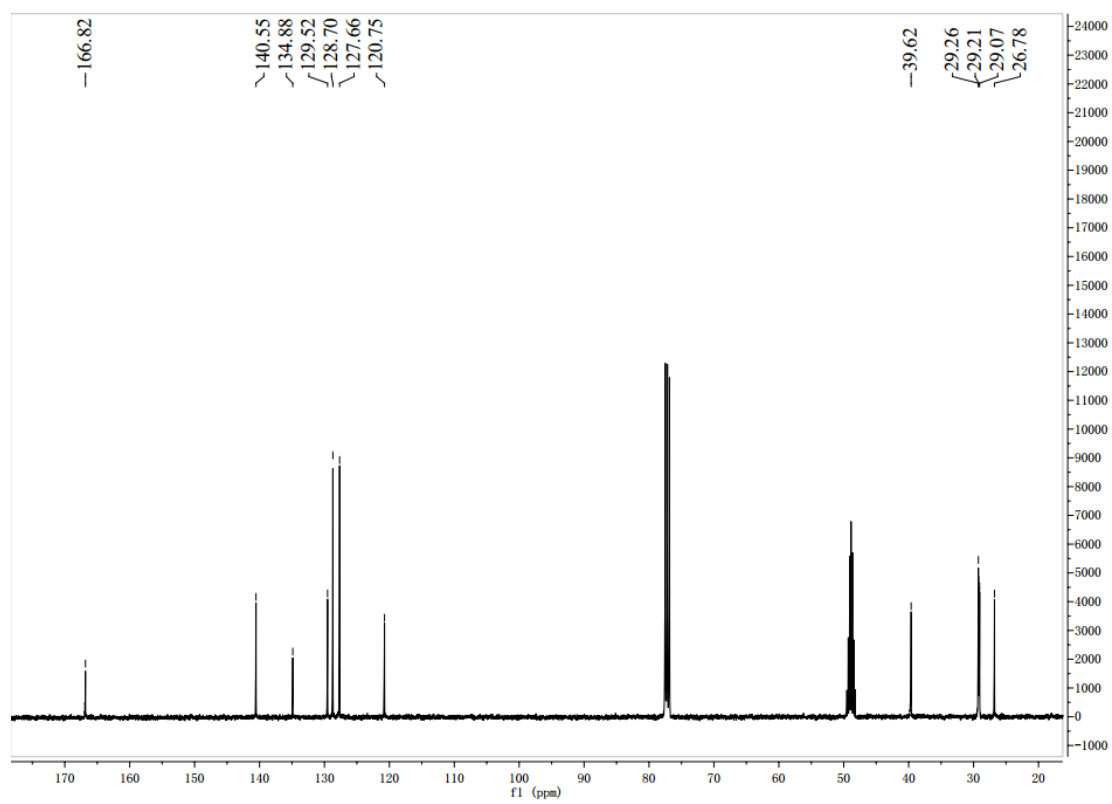


Figure S118  $^{13}\text{C}$  NMR spectrum of compound **9e**.

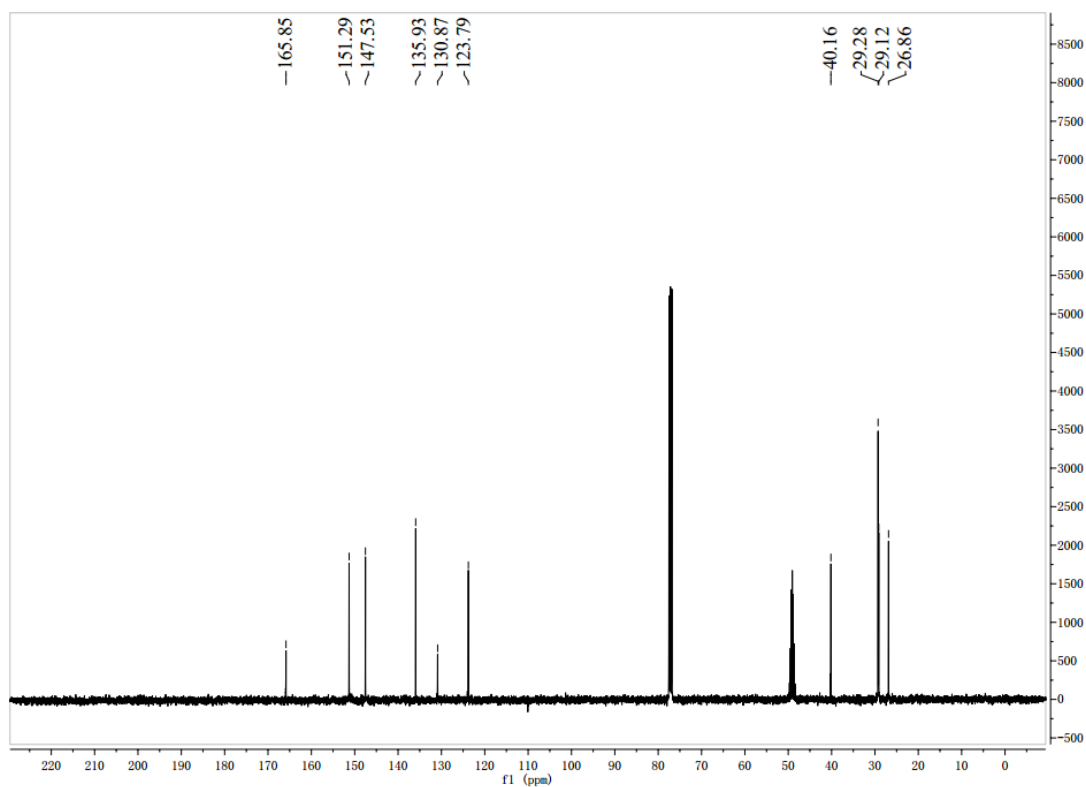


Figure S119  $^{13}\text{C}$  NMR spectrum of compound **10e**.

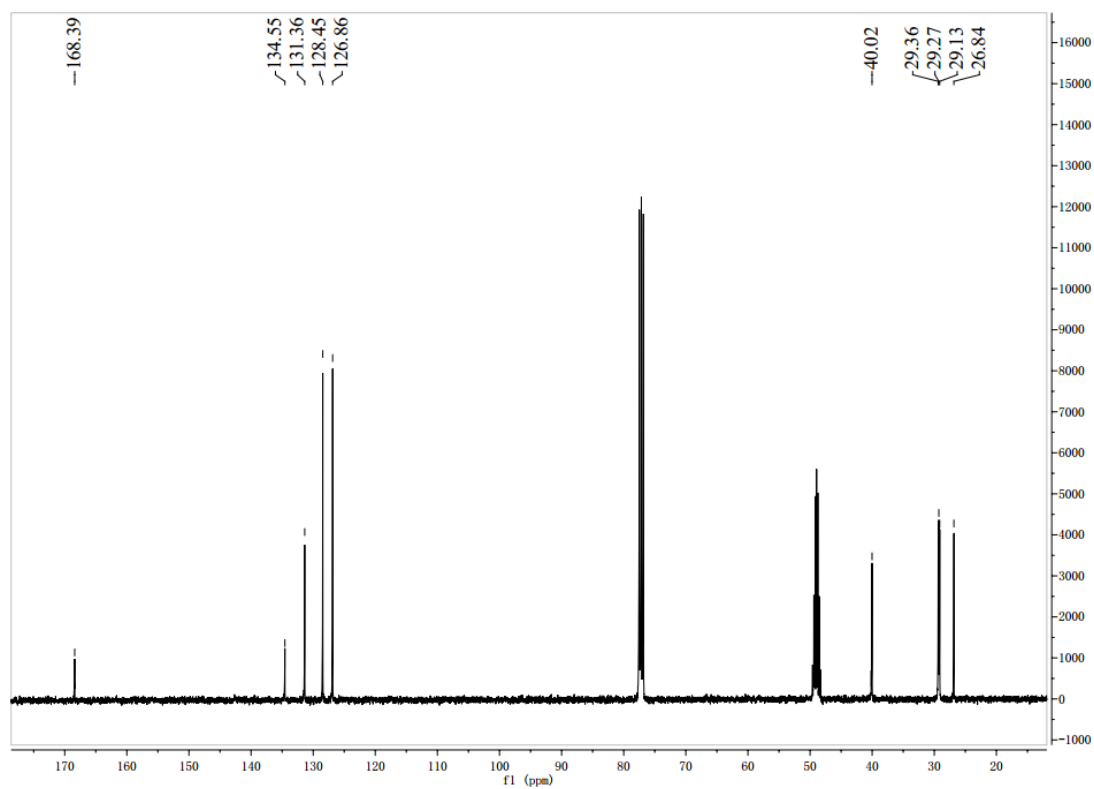


Figure S120  $^{13}\text{C}$  NMR spectrum of compound **11e**.

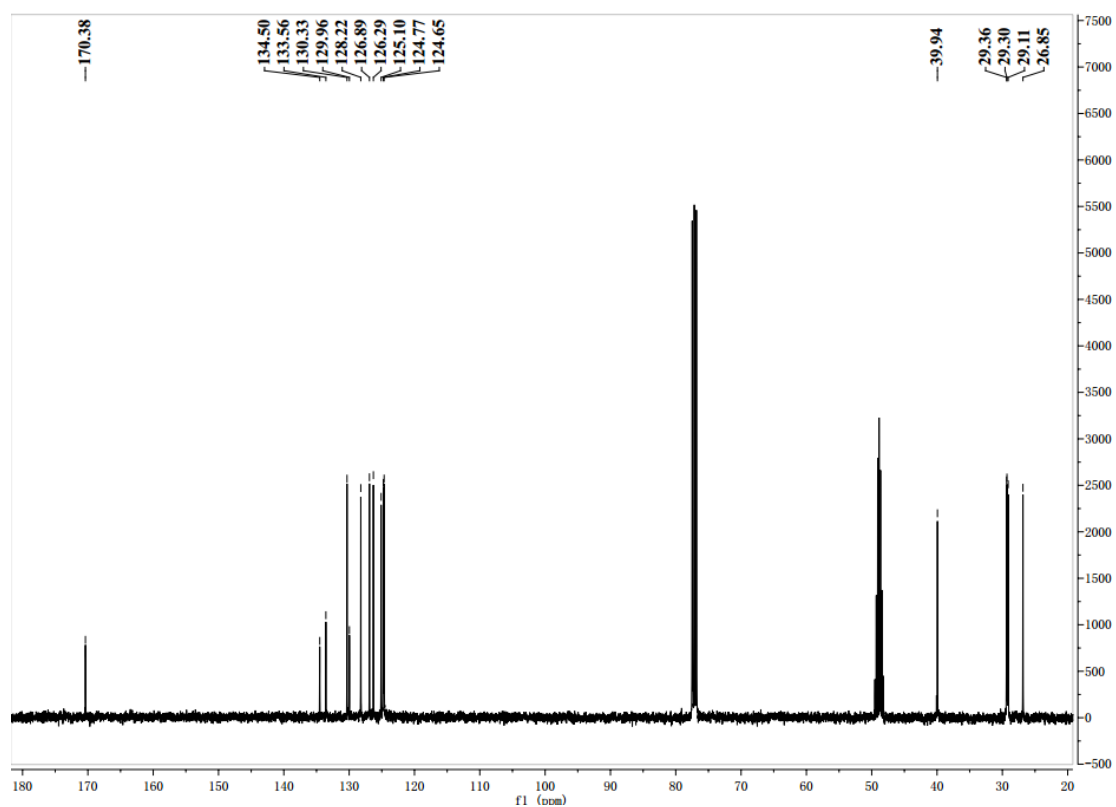


Figure S121  $^{13}\text{C}$  NMR spectrum of compound **12e**.

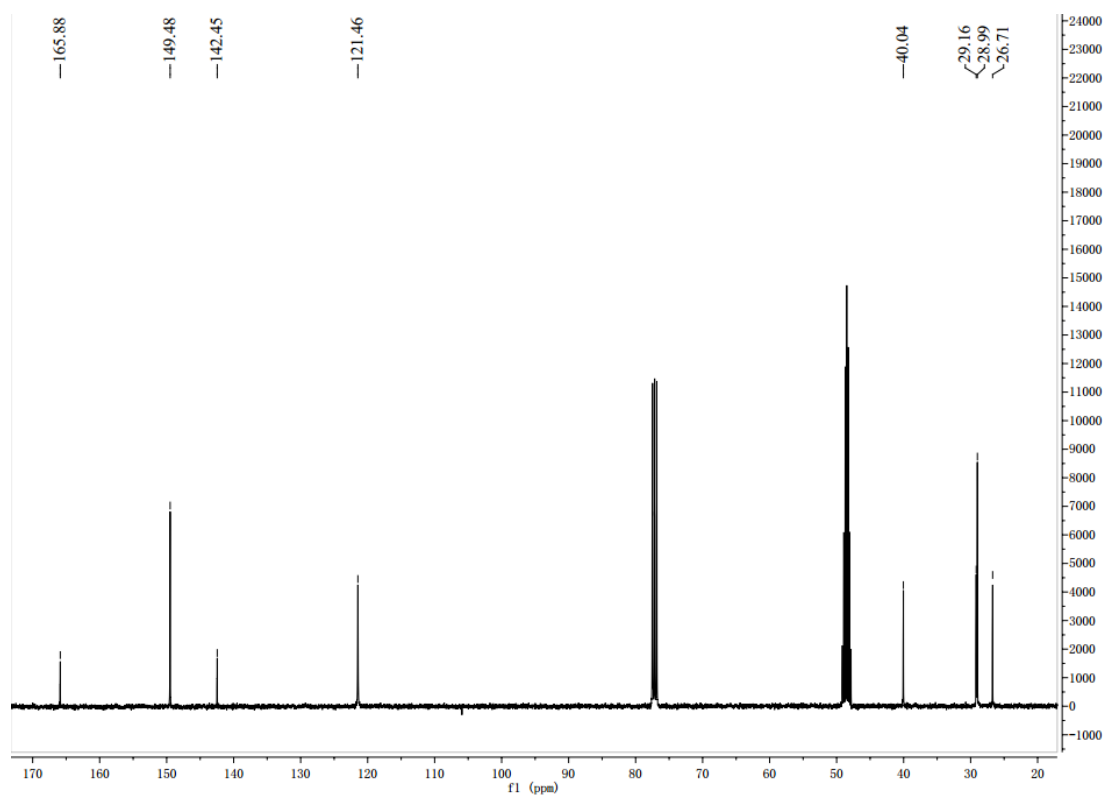


Figure S122  $^{13}\text{C}$  NMR spectrum of compound **13e**.

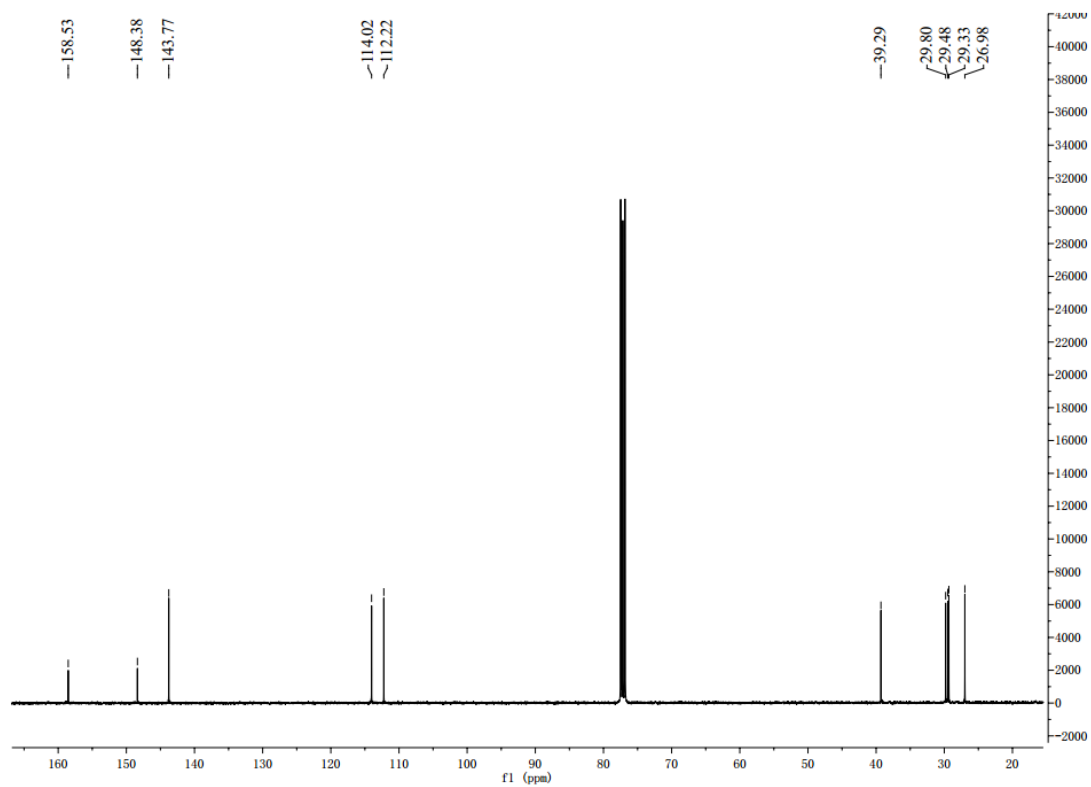


Figure S123  $^{13}\text{C}$  NMR spectrum of compound **14e**.

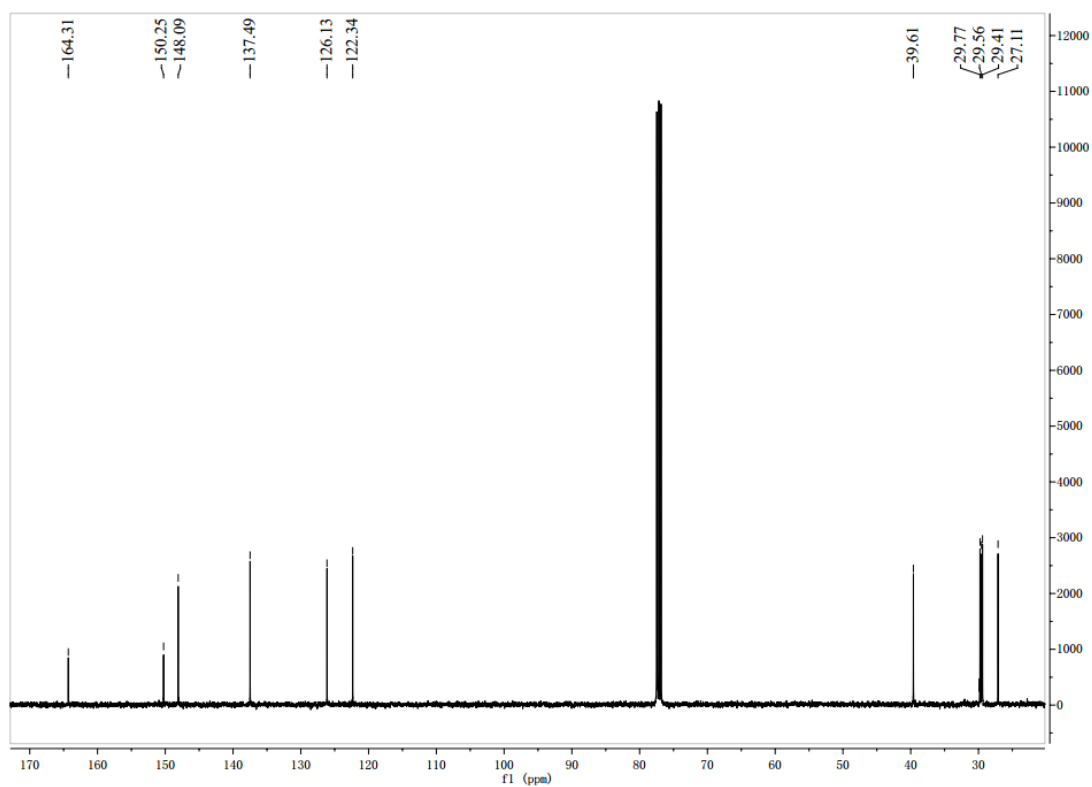


Figure S124  $^{13}\text{C}$  NMR spectrum of compound **15e**.

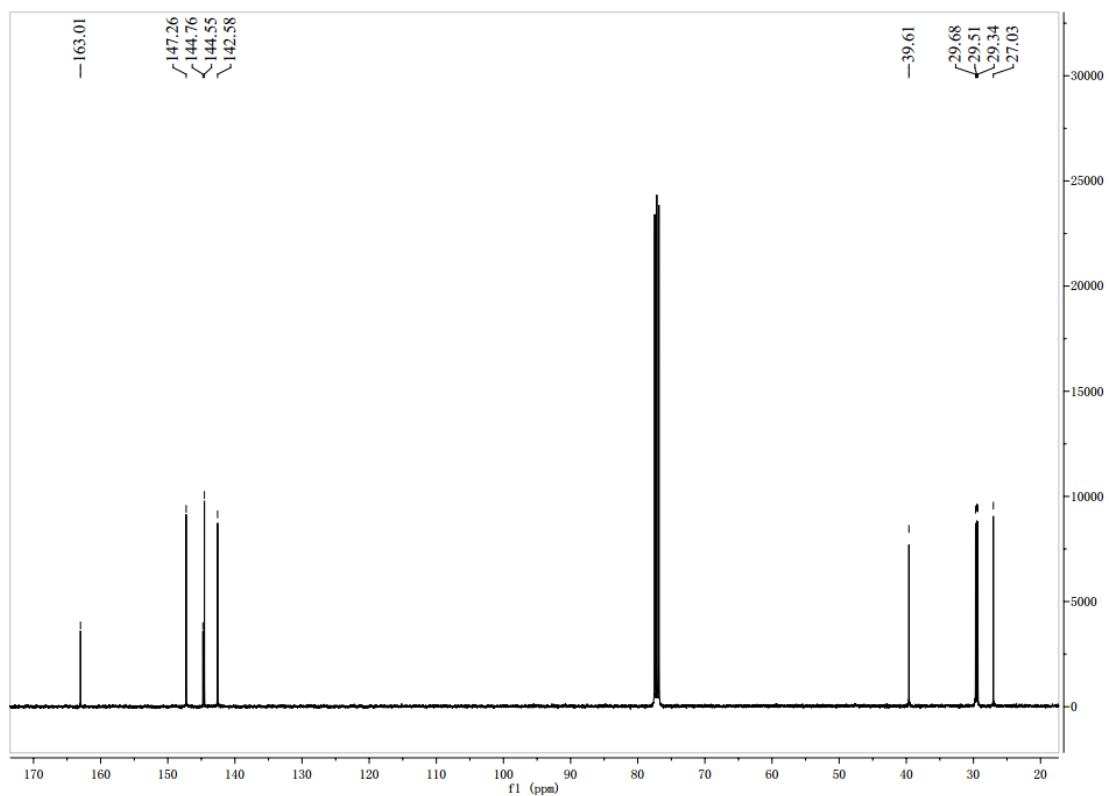


Figure S125  $^{13}\text{C}$  NMR spectrum of compound **16e**.

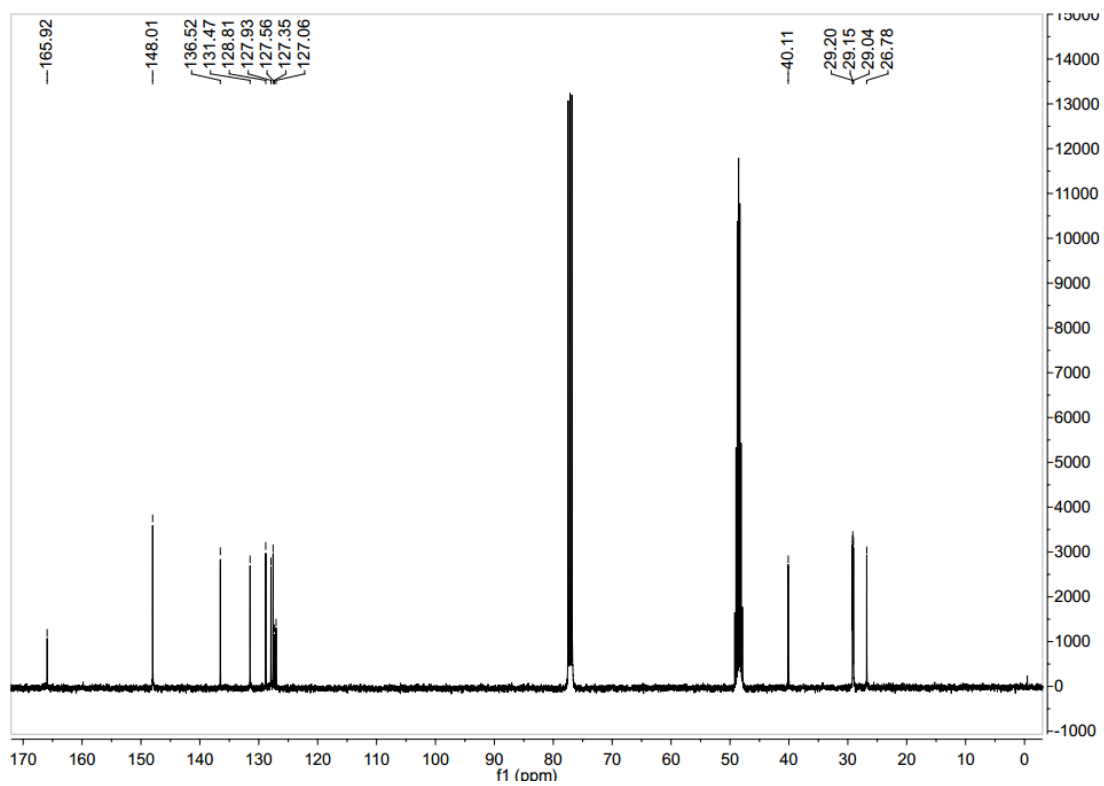


Figure S126  $^{13}\text{C}$  NMR spectrum of compound **17e**.

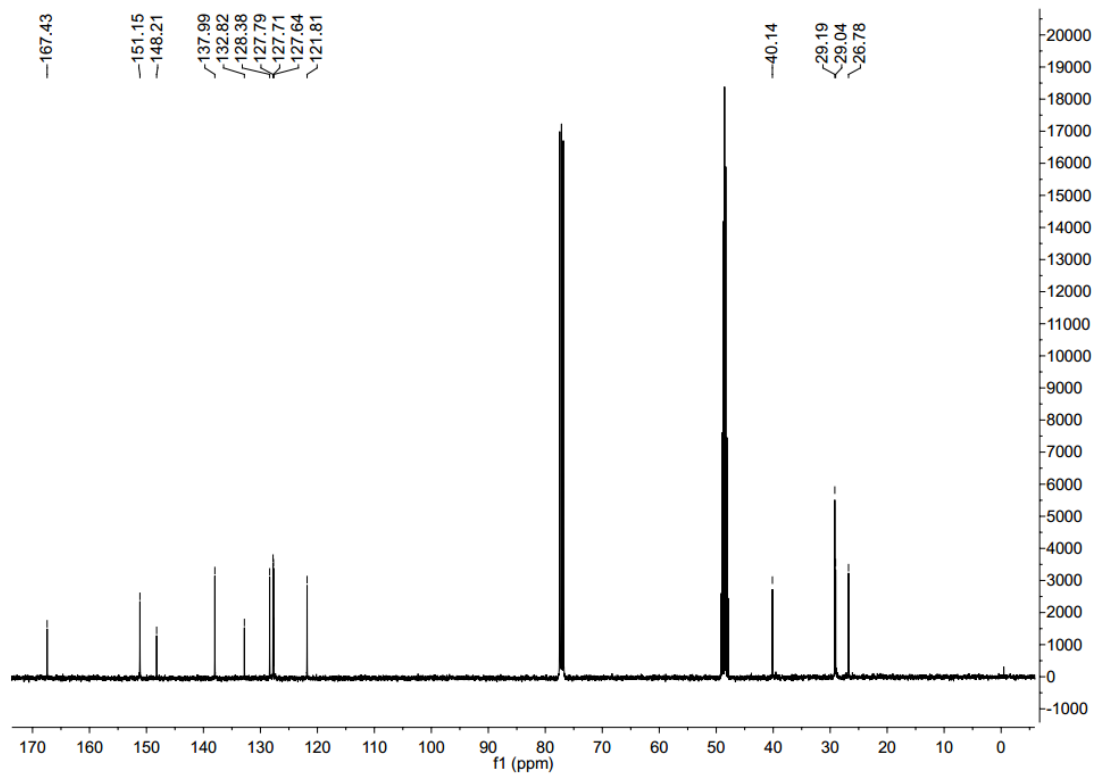


Figure S127  $^{13}\text{C}$  NMR spectrum of compound **18e**.

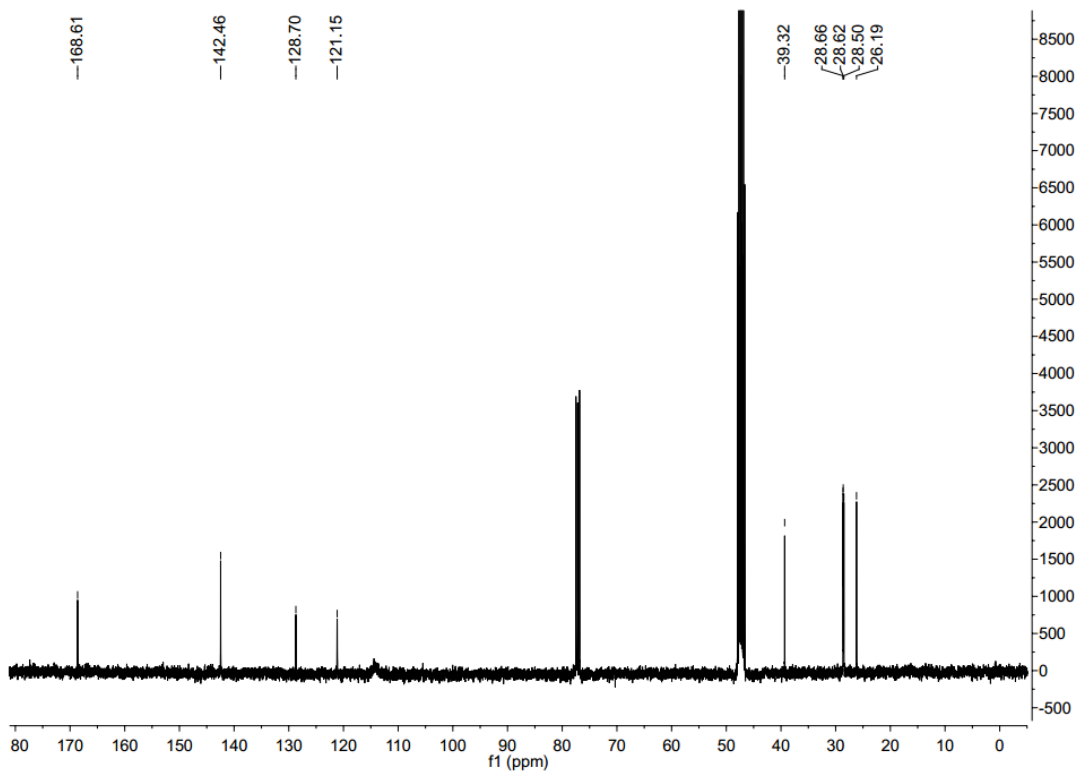


Figure S128  $^{13}\text{C}$  NMR spectrum of compound **19e**.



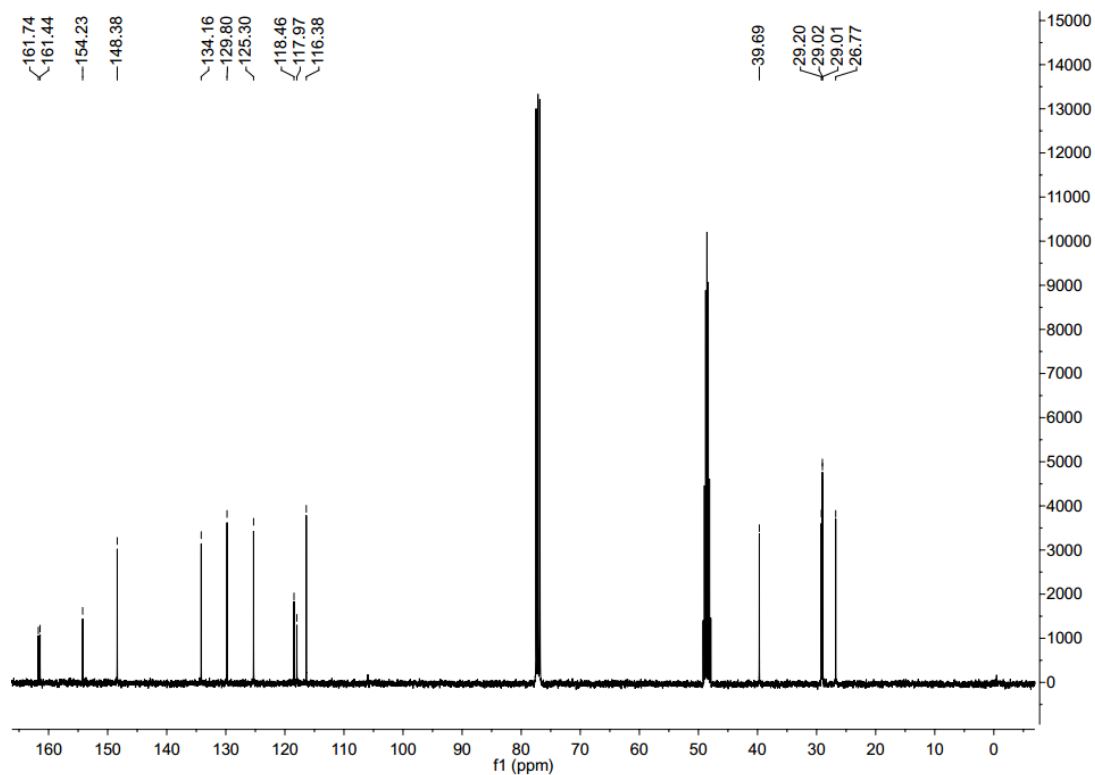


Figure S129  $^{13}\text{C}$  NMR spectrum of compound **20e**.

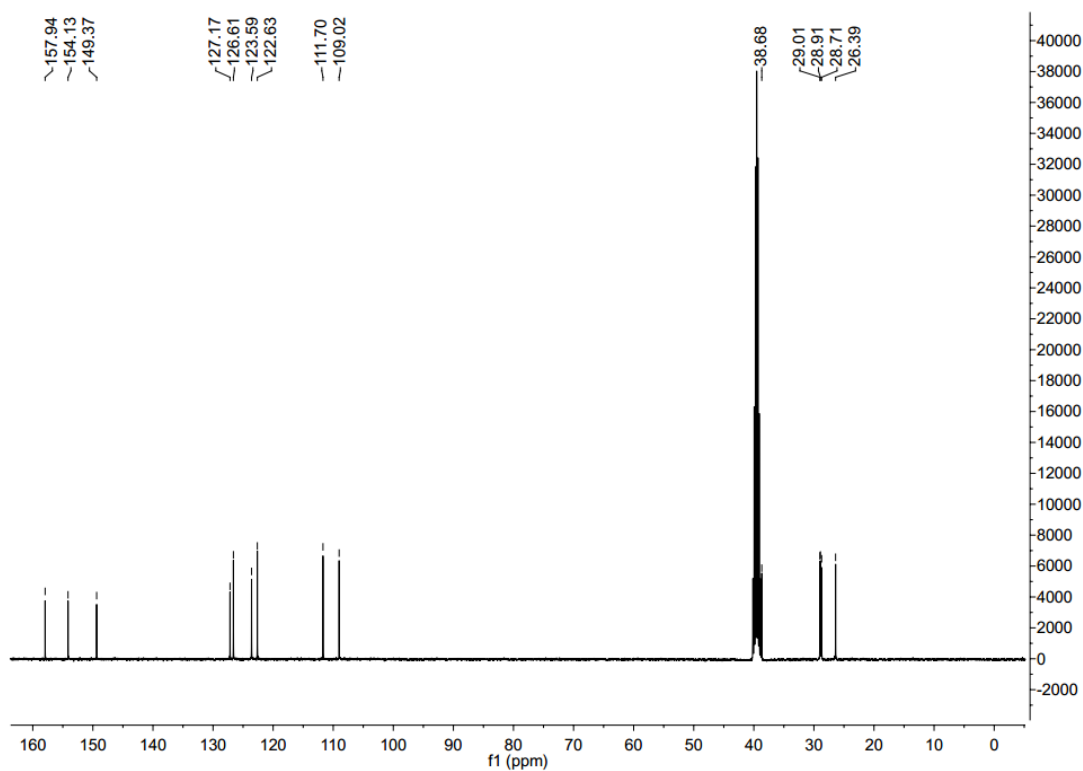


Figure S130  $^{13}\text{C}$  NMR spectrum of compound **21e**.

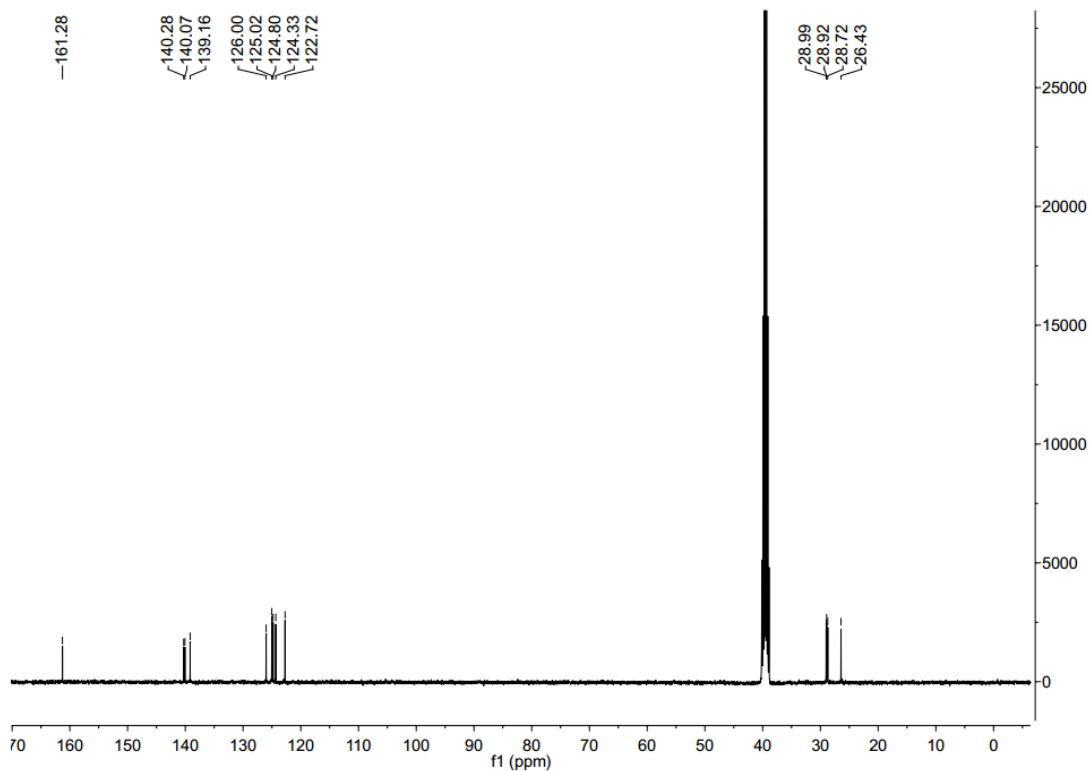


Figure S131 <sup>13</sup>C NMR spectrum of compound **22e**.

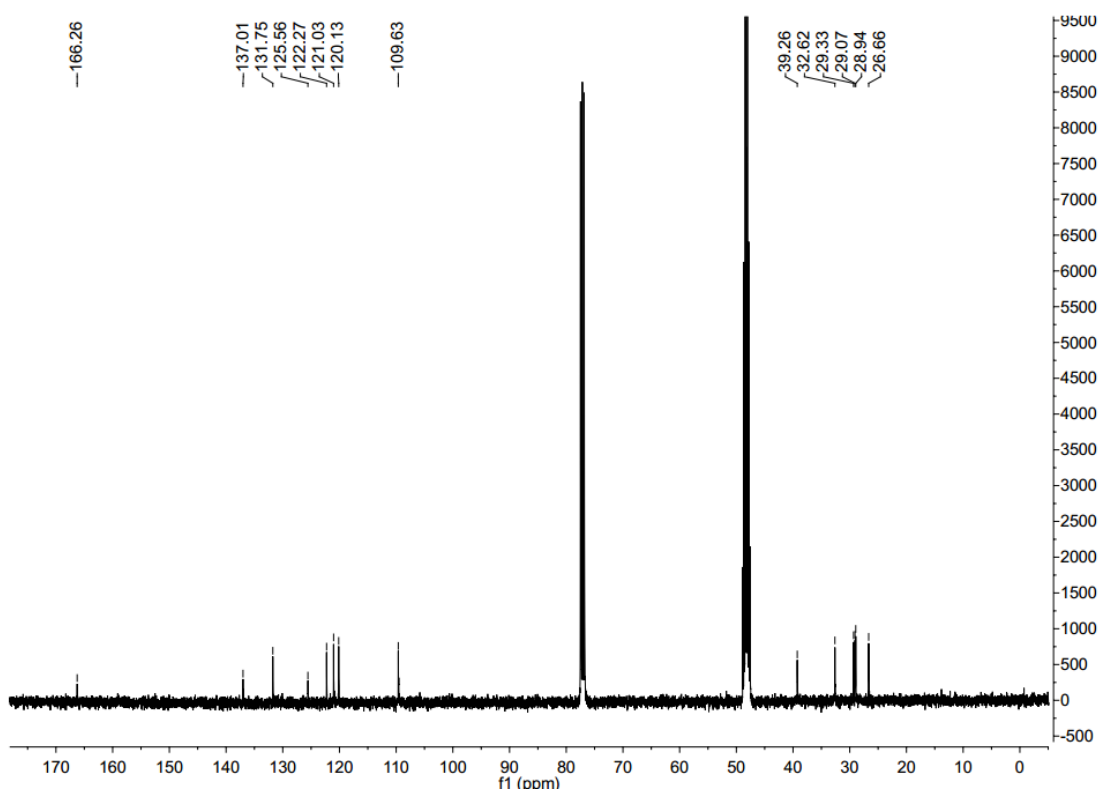


Figure S132 <sup>13</sup>C NMR spectrum of compound **23e**.

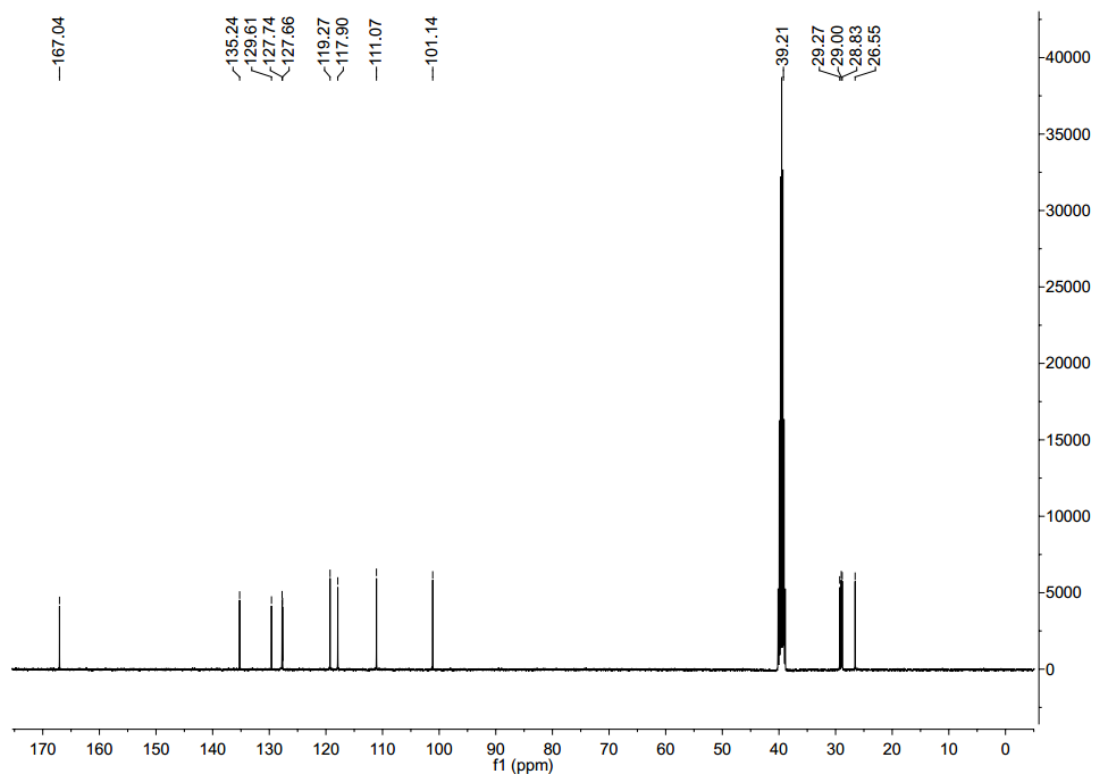


Figure S133  $^{13}\text{C}$  NMR spectrum of compound **24e**.

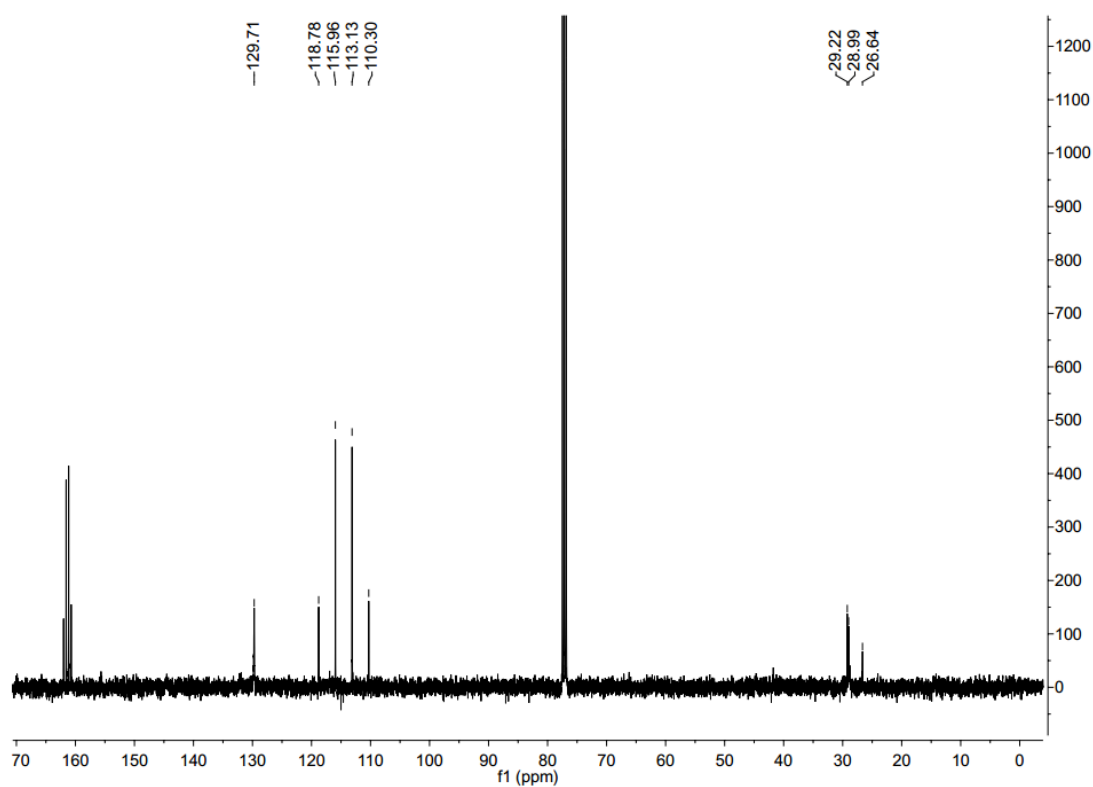


Figure S134  $^{13}\text{C}$  NMR spectrum of compound **25e**.

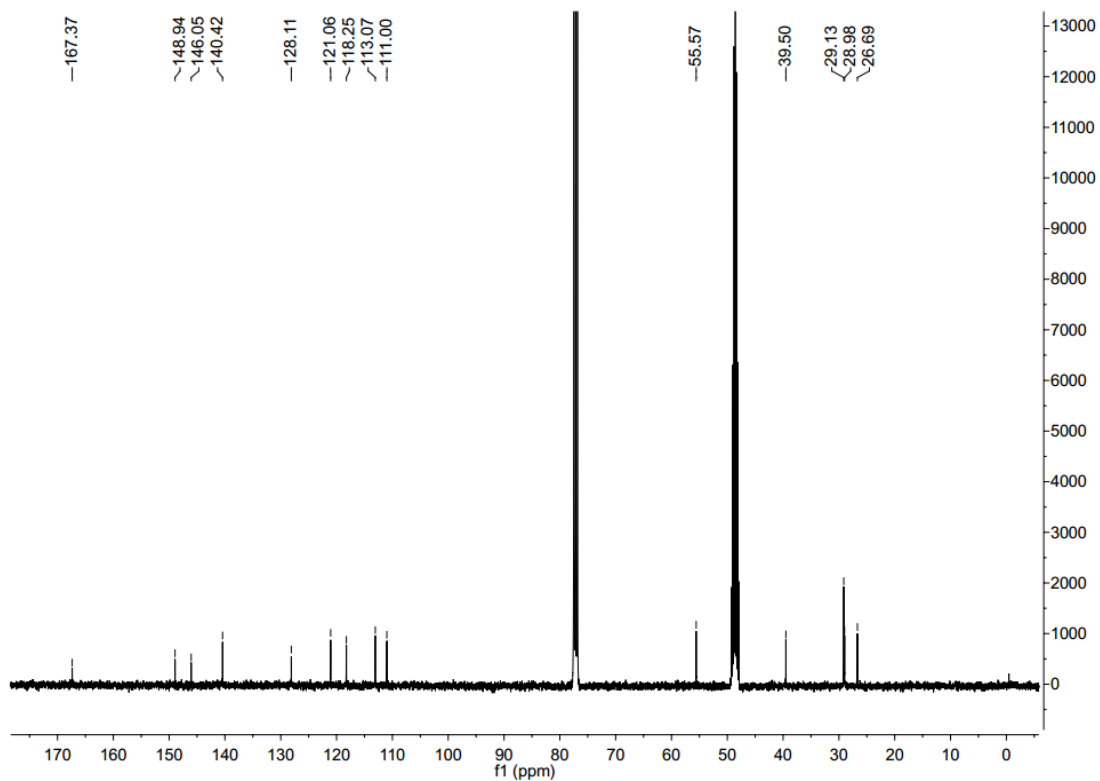


Figure S135  $^{13}\text{C}$  NMR spectrum of compound **26e**.

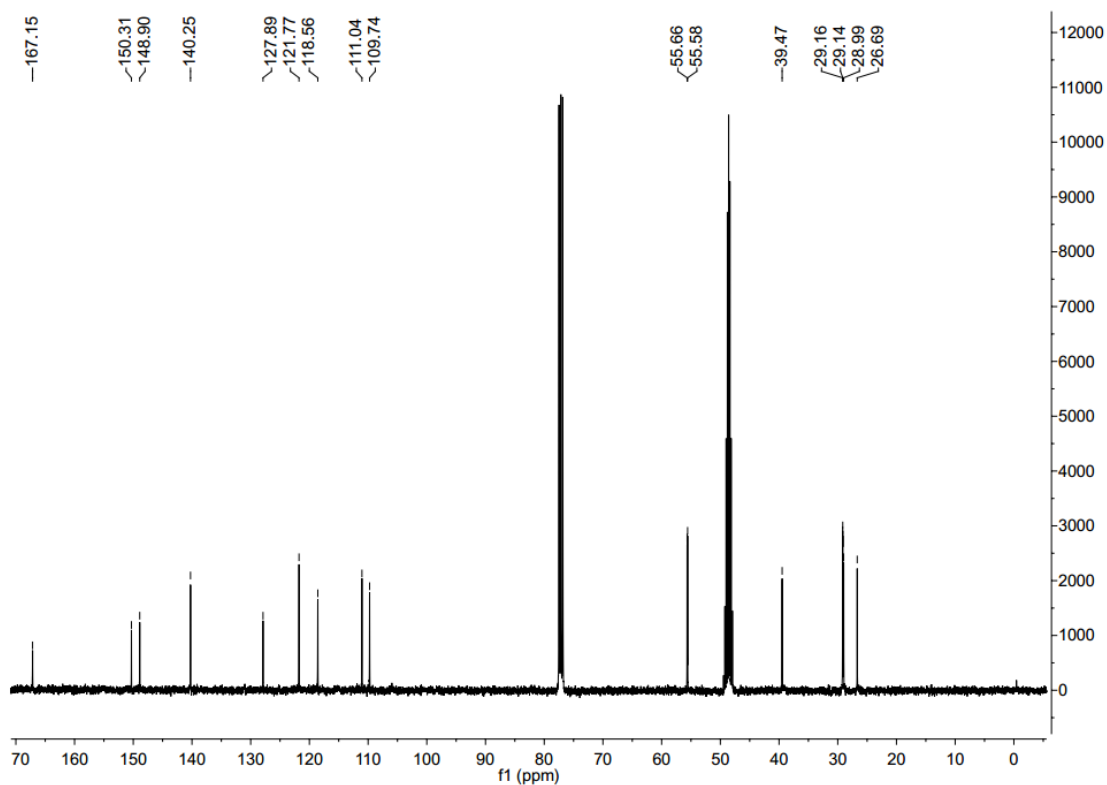


Figure S136  $^{13}\text{C}$  NMR spectrum of compound **27e**.

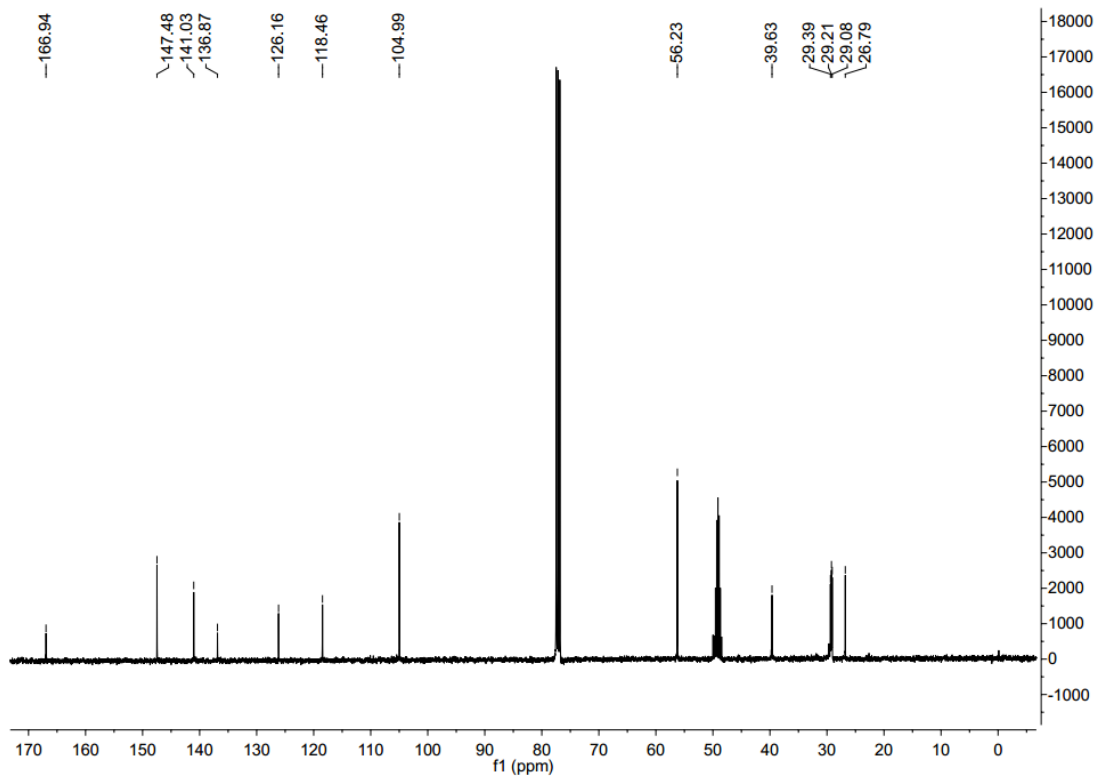


Figure S137  $^{13}\text{C}$  NMR spectrum of compound **28e**.

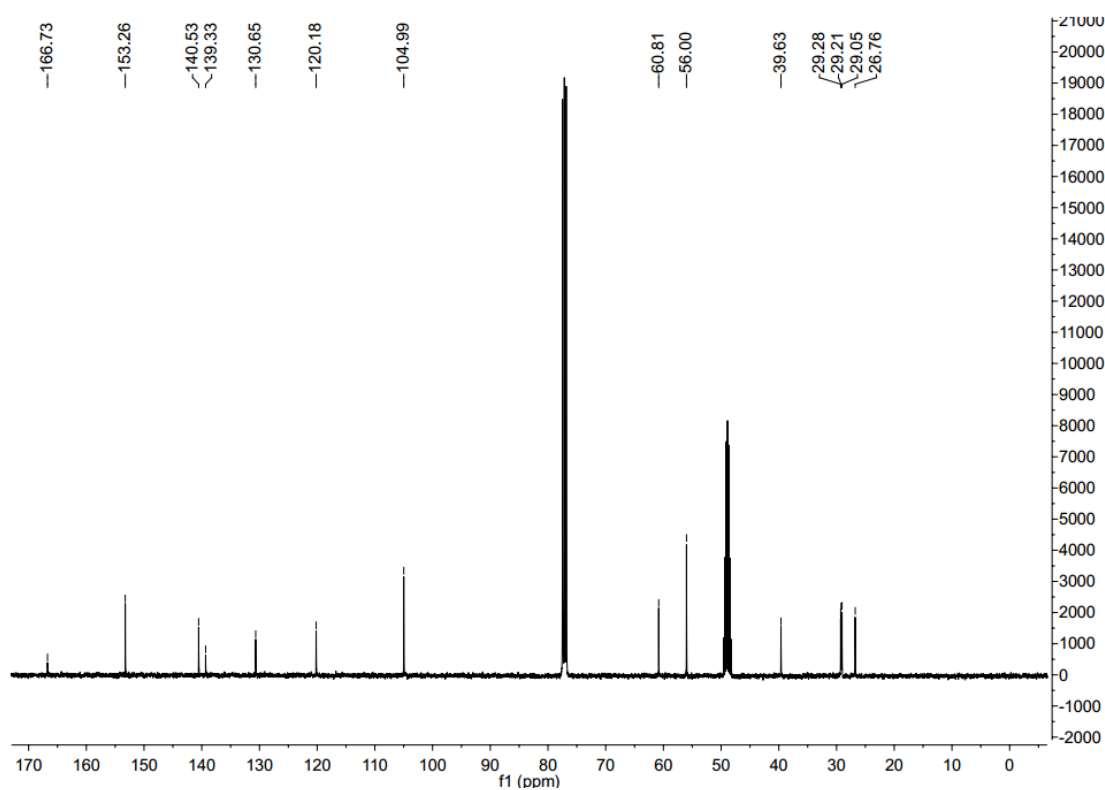


Figure S138  $^{13}\text{C}$  NMR spectrum of compound **29e**.

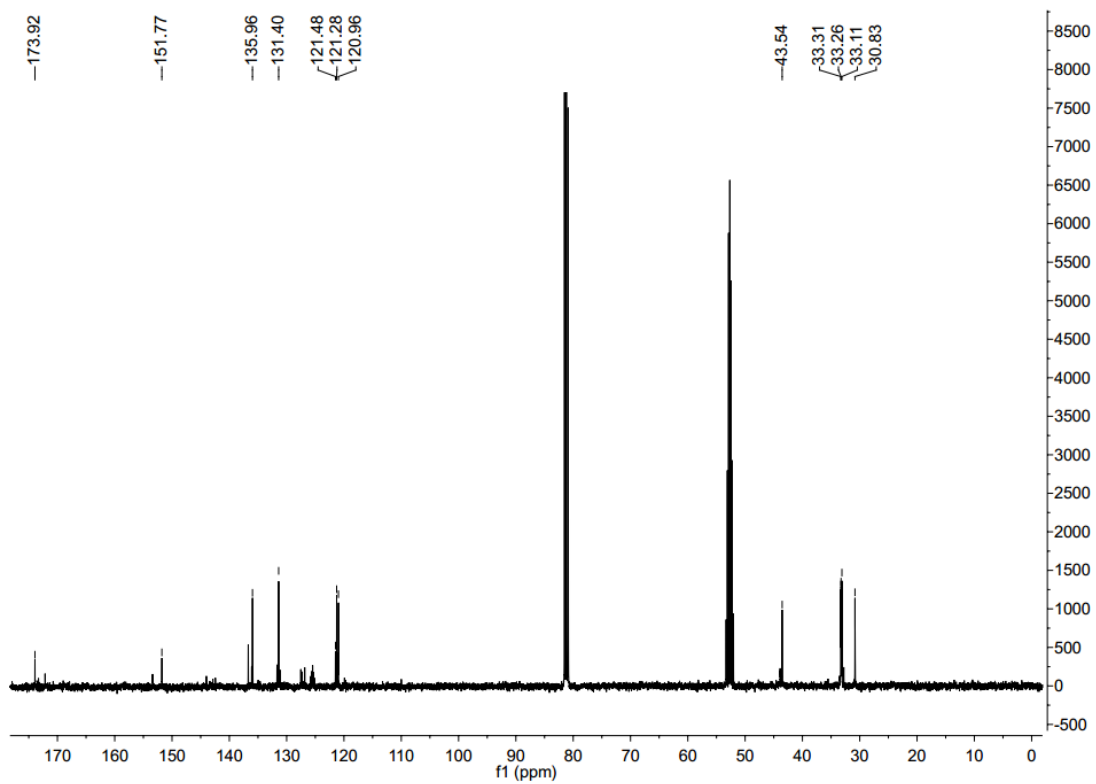


Figure S139  $^{13}\text{C}$  NMR spectrum of compound **30e**.

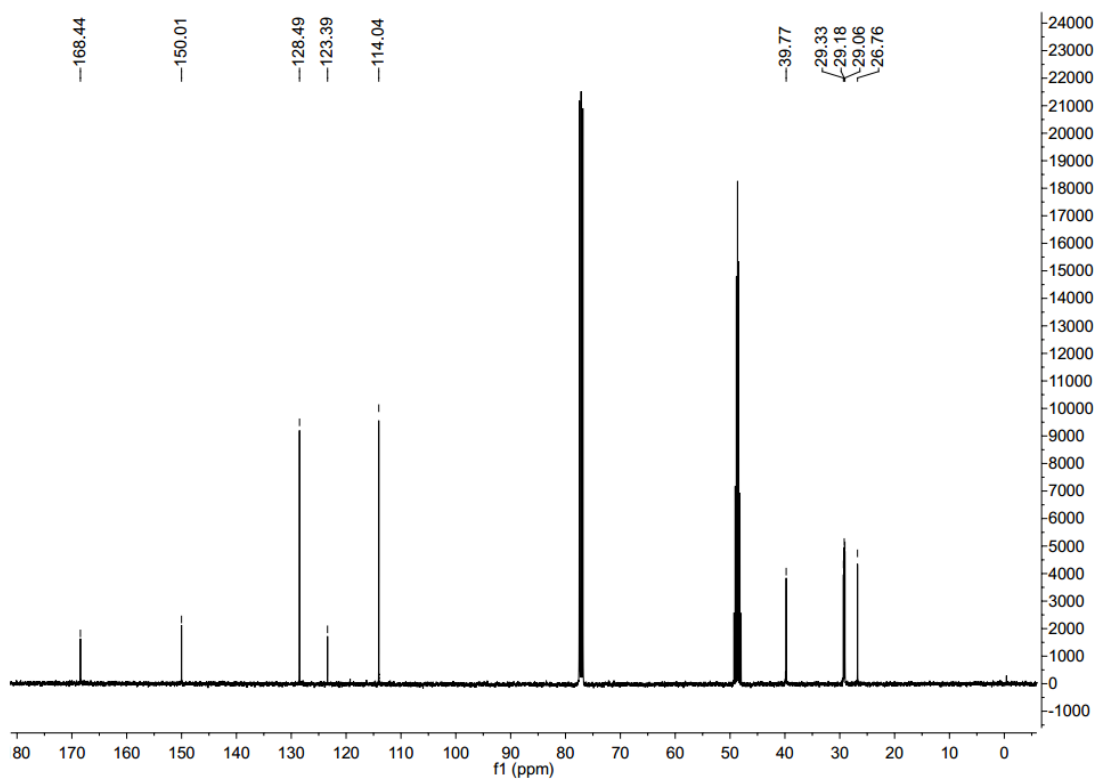


Figure S140  $^{13}\text{C}$  NMR spectrum of compound **31e**.

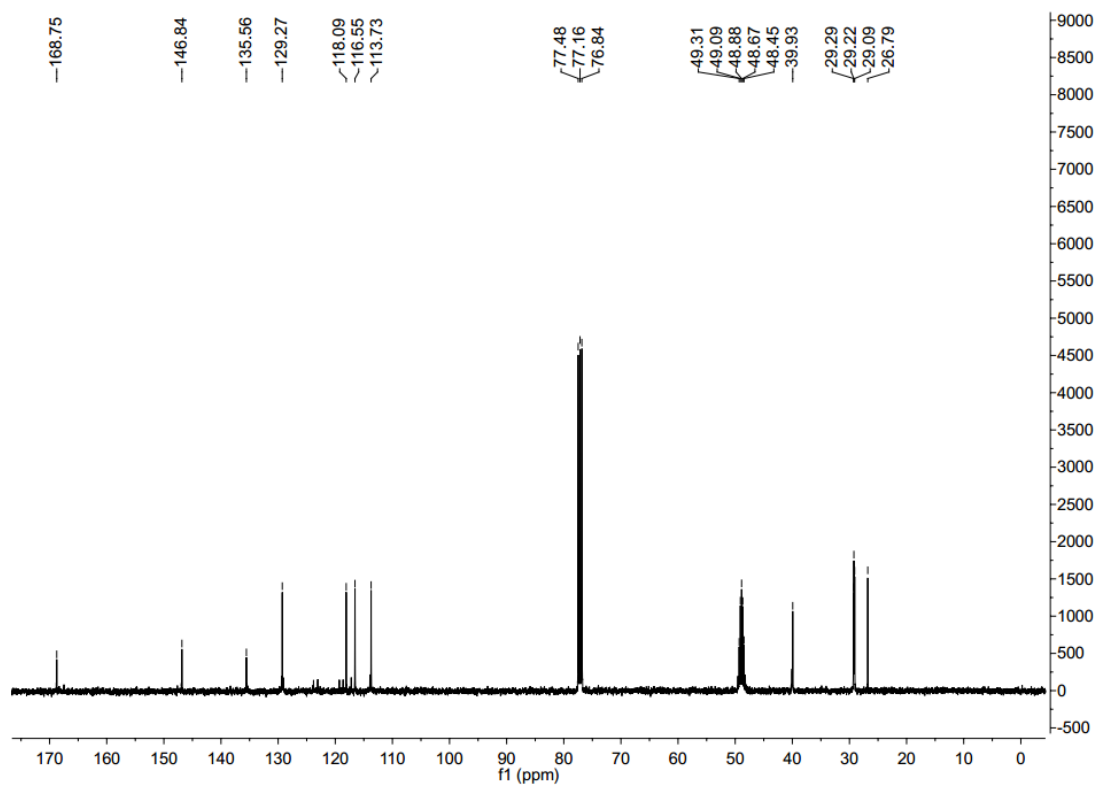


Figure S141  $^{13}\text{C}$  NMR spectrum of compound **32e**.

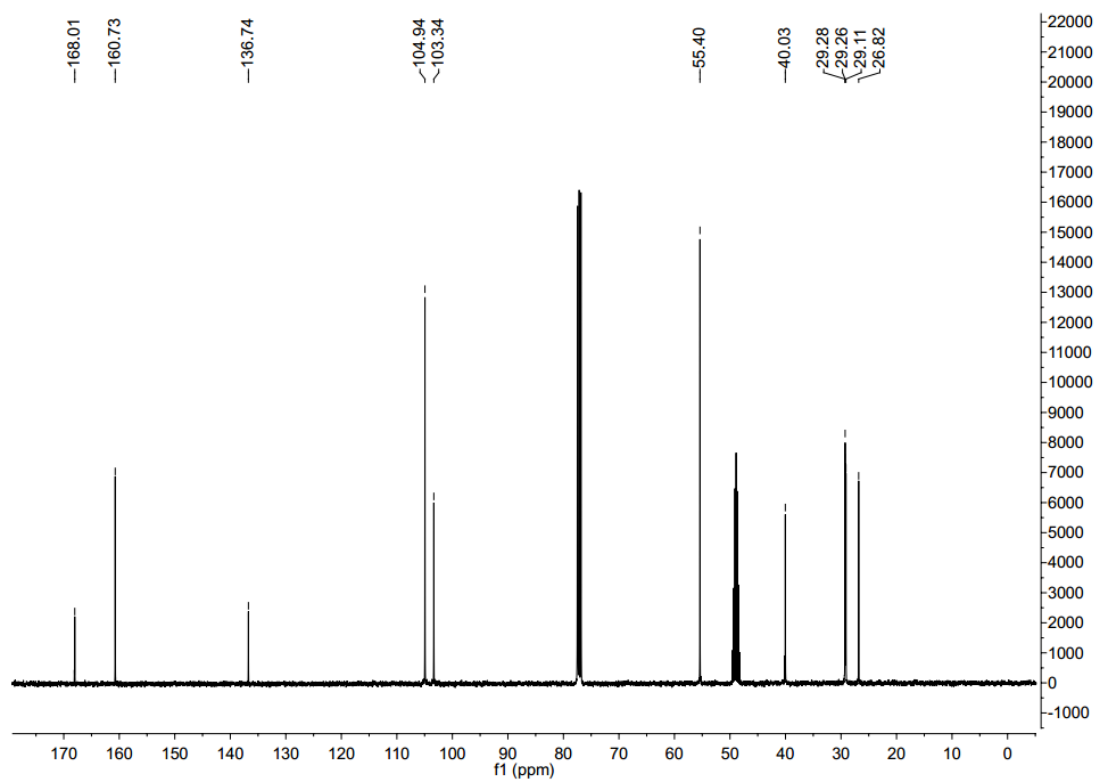


Figure S142  $^{13}\text{C}$  NMR spectrum of compound **33e**.

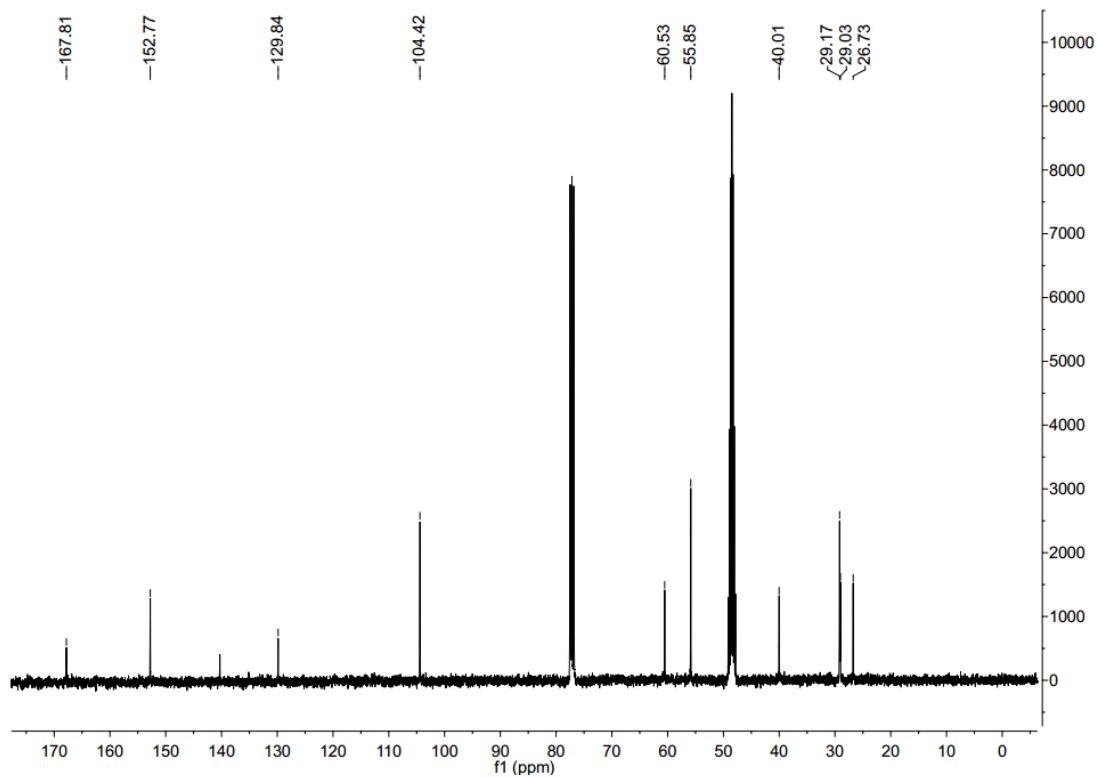


Figure S143  $^{13}\text{C}$  NMR spectrum of compound **34e**.

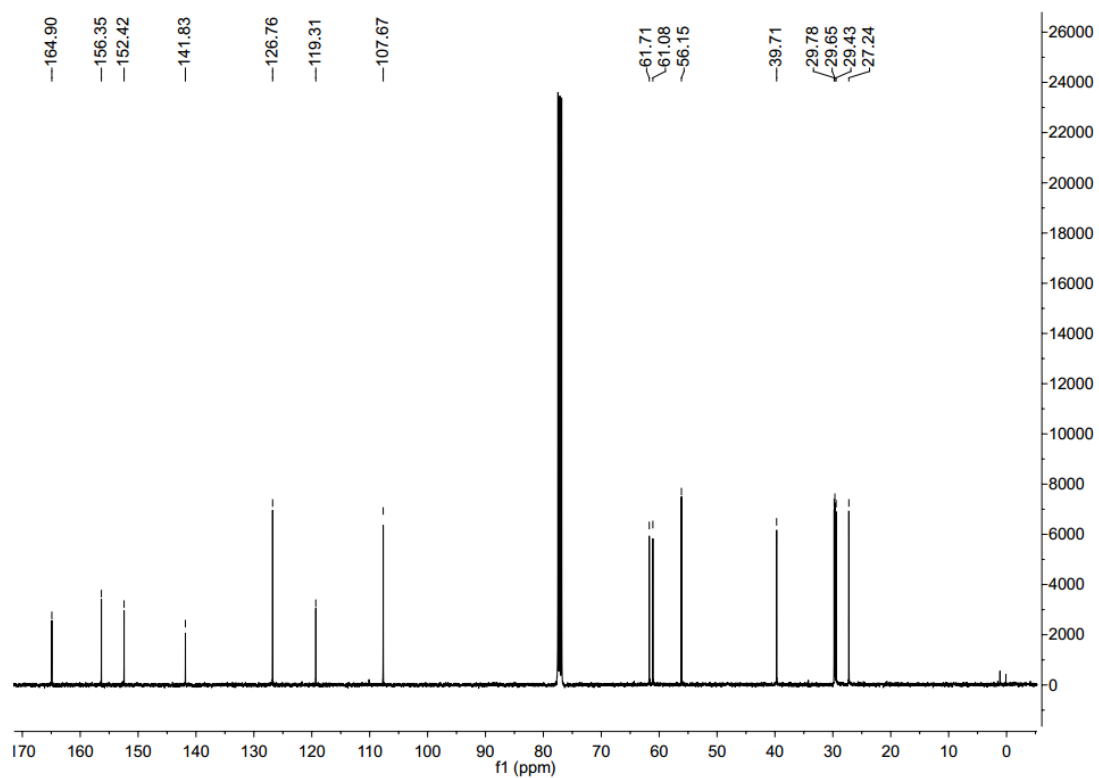


Figure S144  $^{13}\text{C}$  NMR spectrum of compound **35e**.



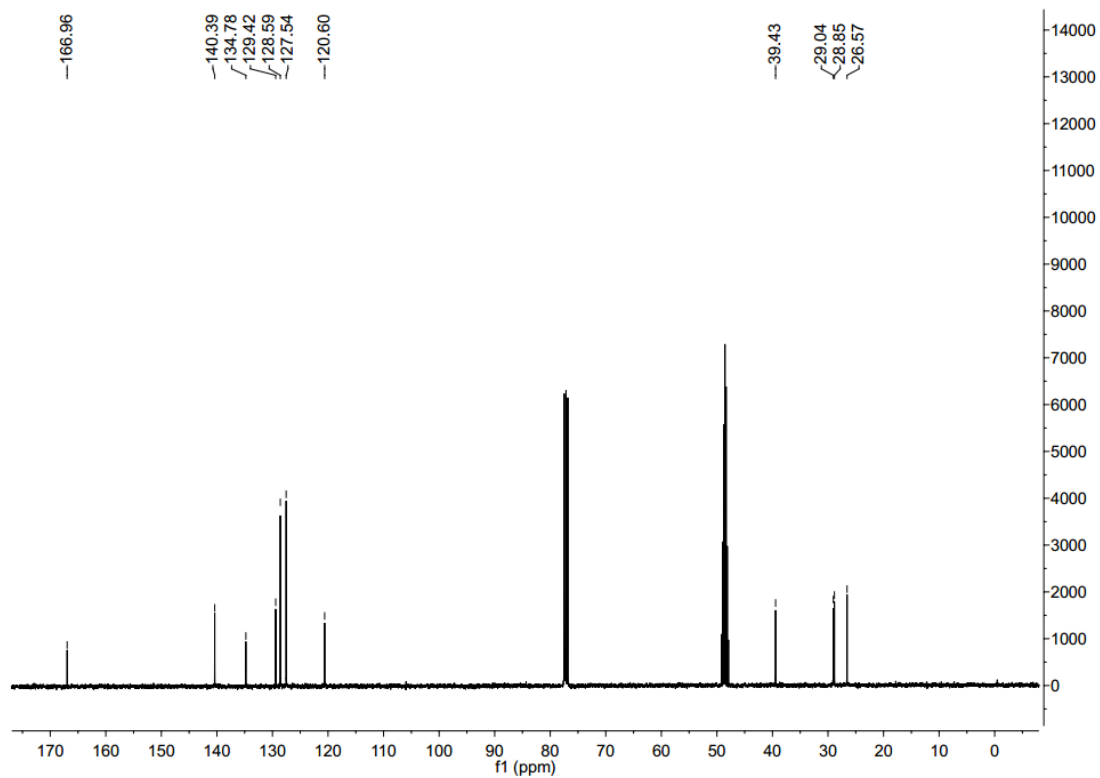


Figure S145  $^{13}\text{C}$  NMR spectrum of compound **9d**.

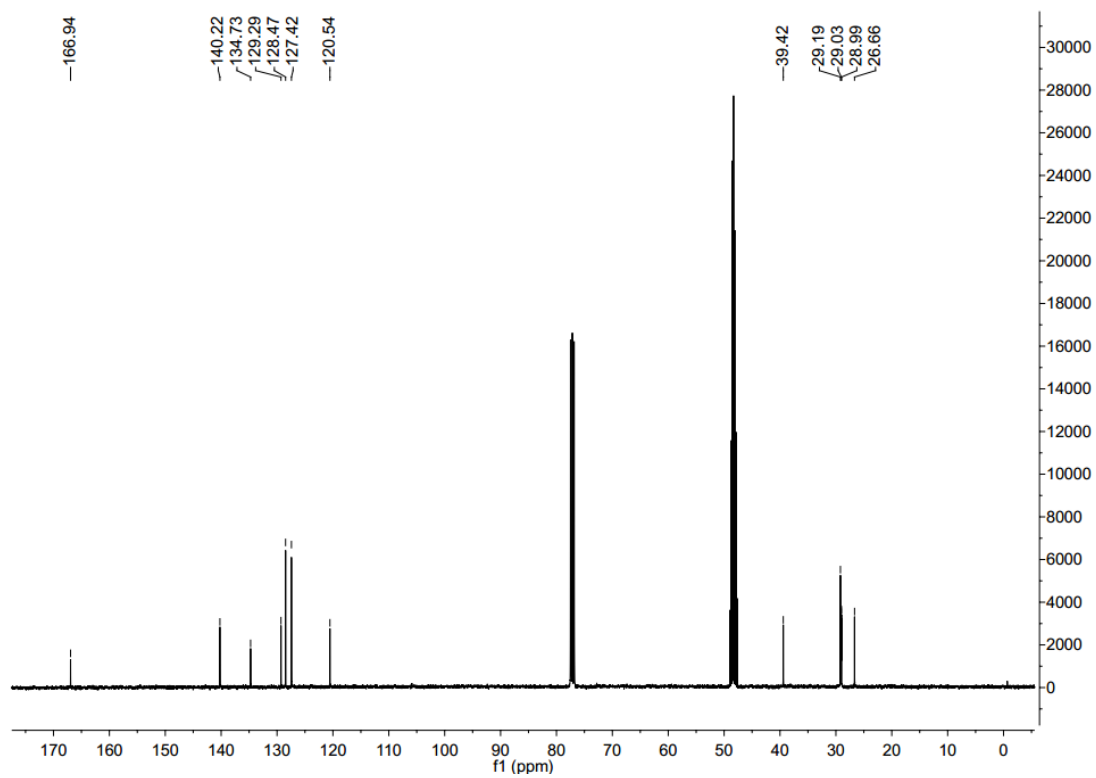


Figure S146  $^{13}\text{C}$  NMR spectrum of compound **9f**.

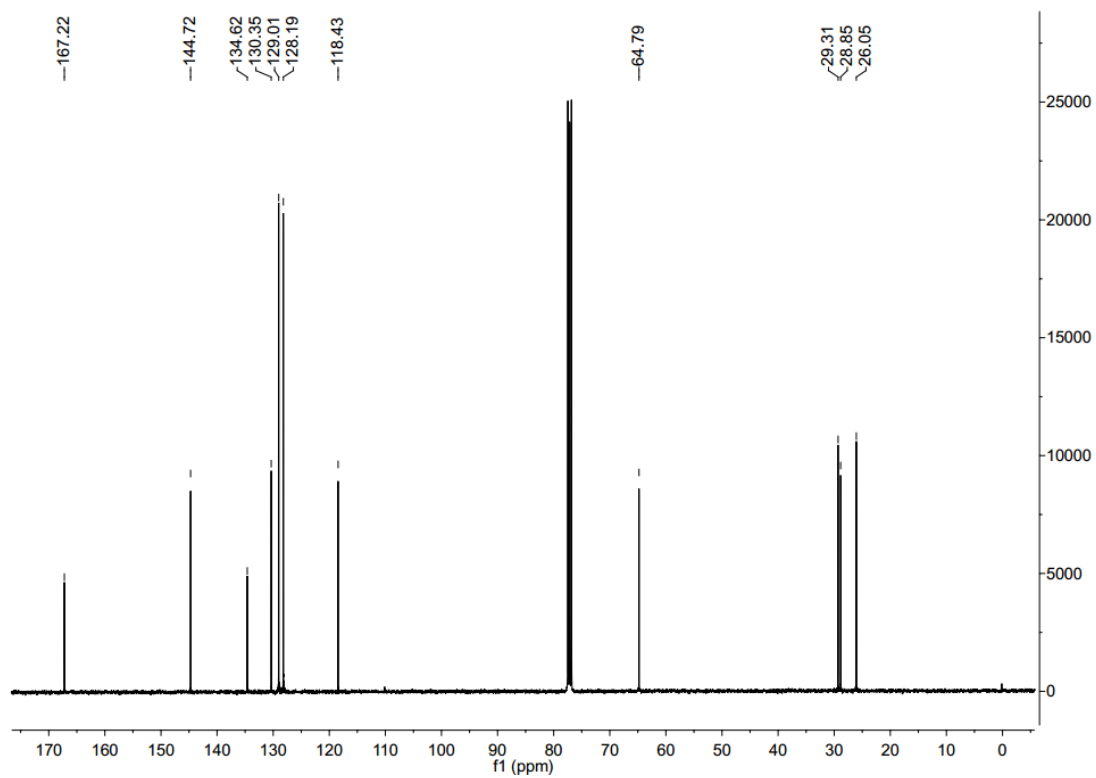


Figure S147 <sup>13</sup>C NMR spectrum of compound **9g**.

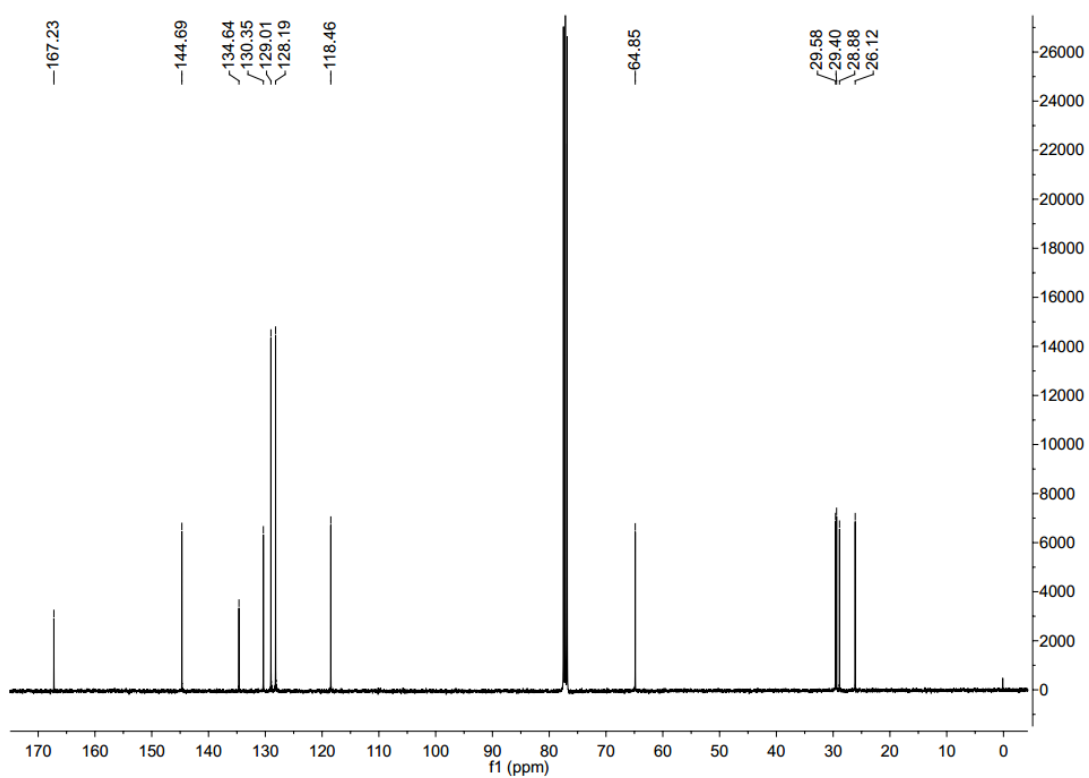


Figure S148 <sup>13</sup>C NMR spectrum of compound **9h**.

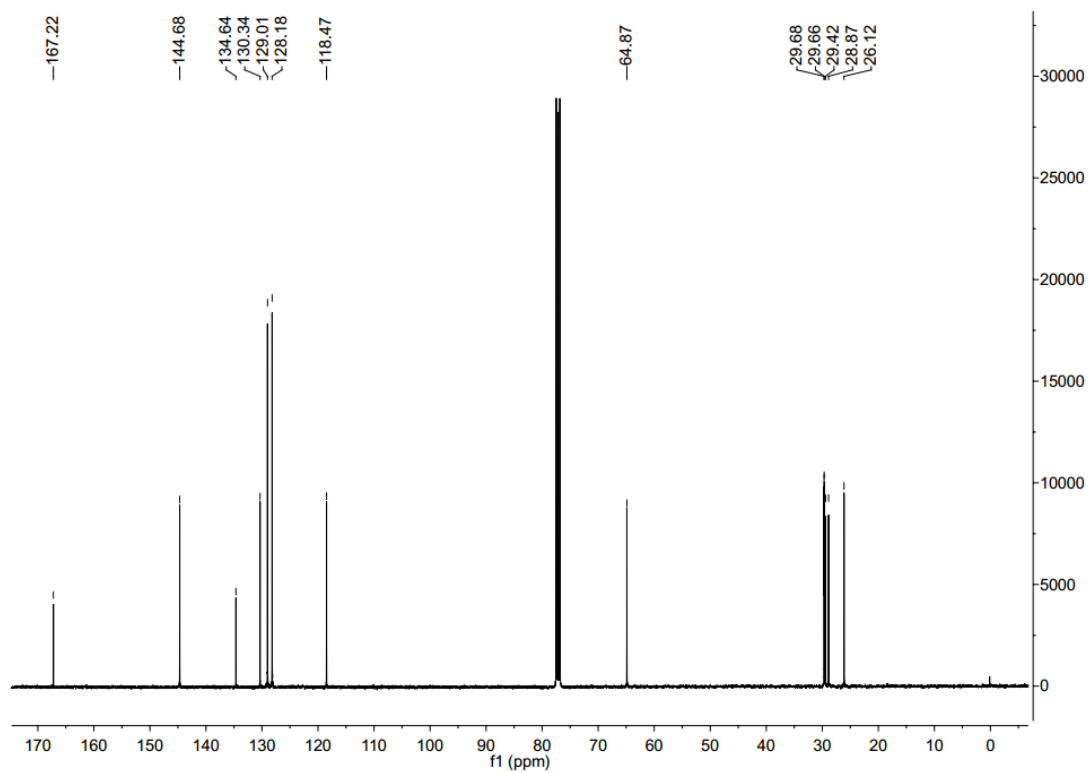


Figure S149  $^{13}\text{C}$  NMR spectrum of compound **9i**.

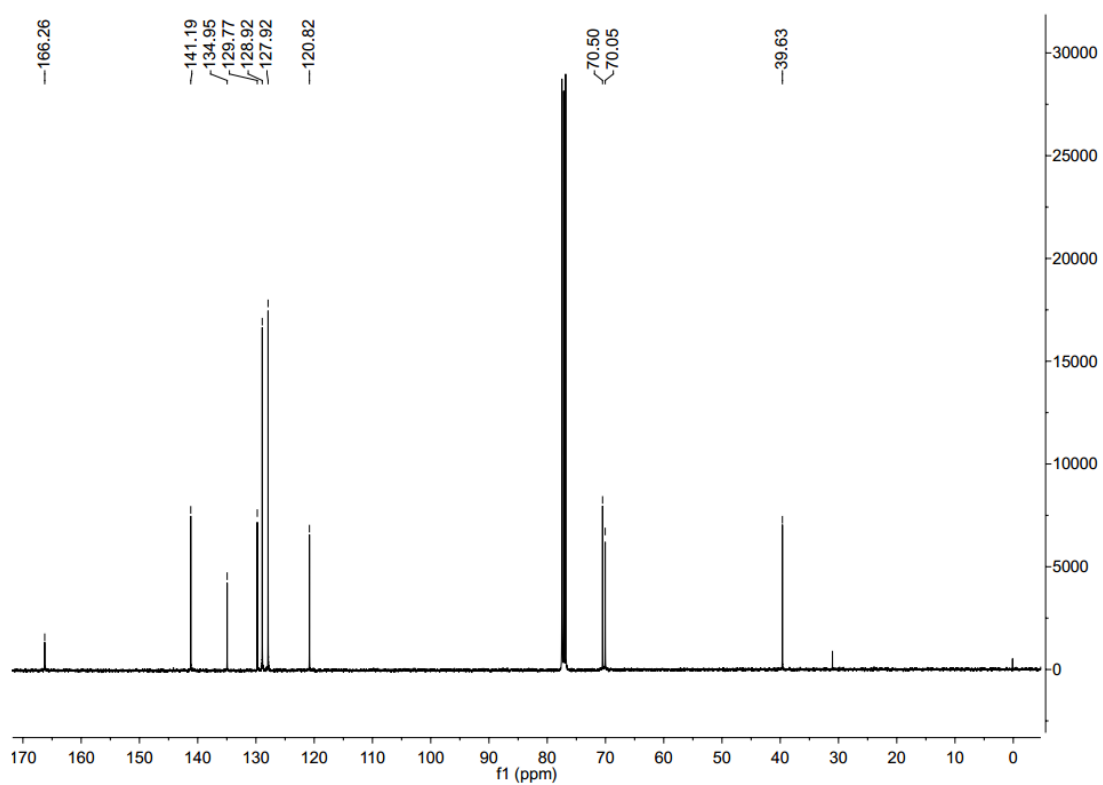


Figure S150  $^{13}\text{C}$  NMR spectrum of compound **9j**.

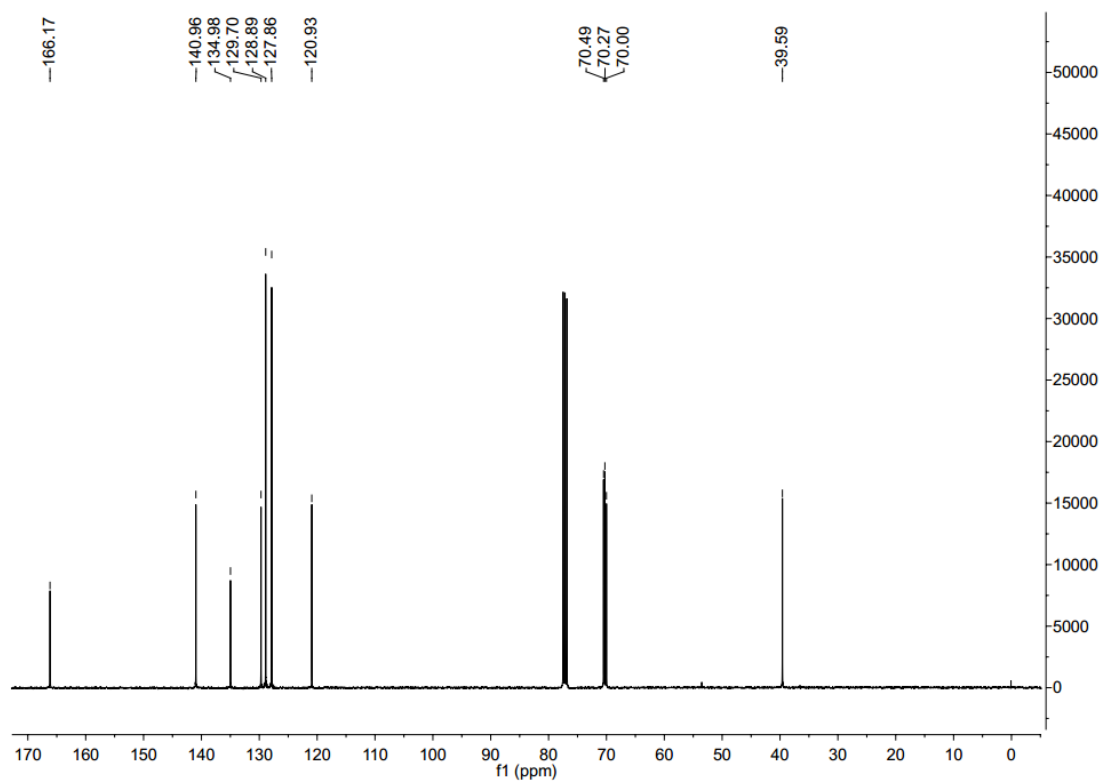


Figure S151  $^{13}\text{C}$  NMR spectrum of compound **9k**.

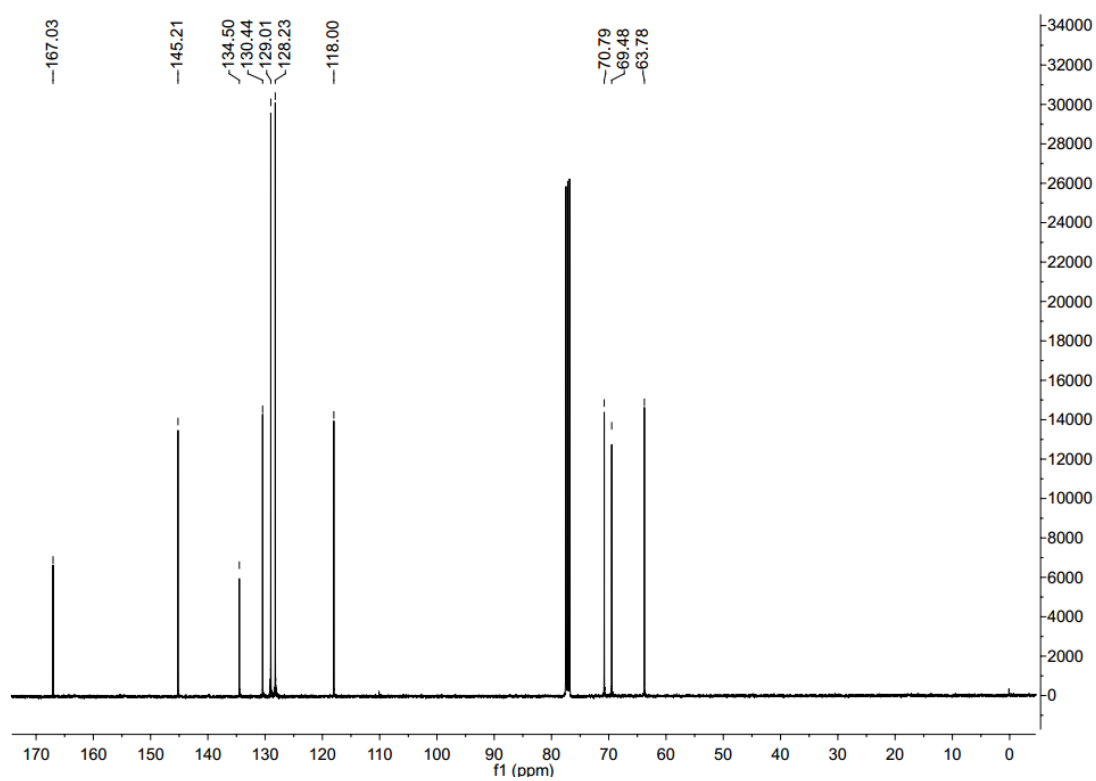


Figure S152  $^{13}\text{C}$  NMR spectrum of compound **9l**.

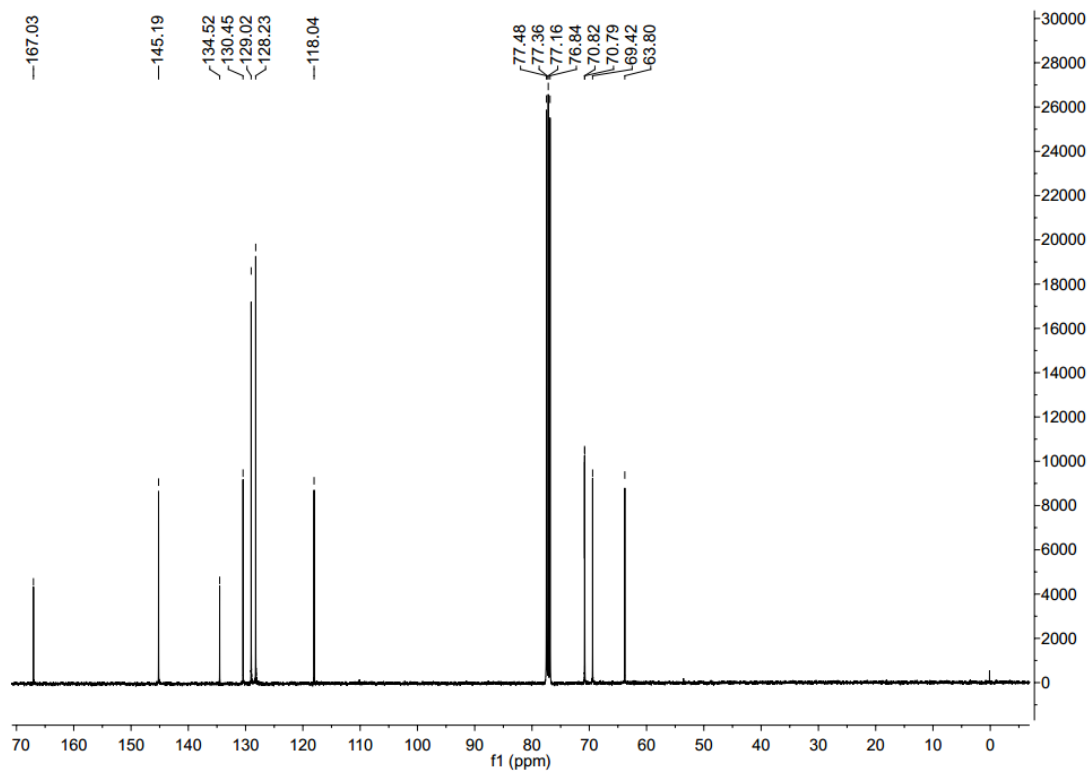


Figure S153  $^{13}\text{C}$  NMR spectrum of compound **9m**.