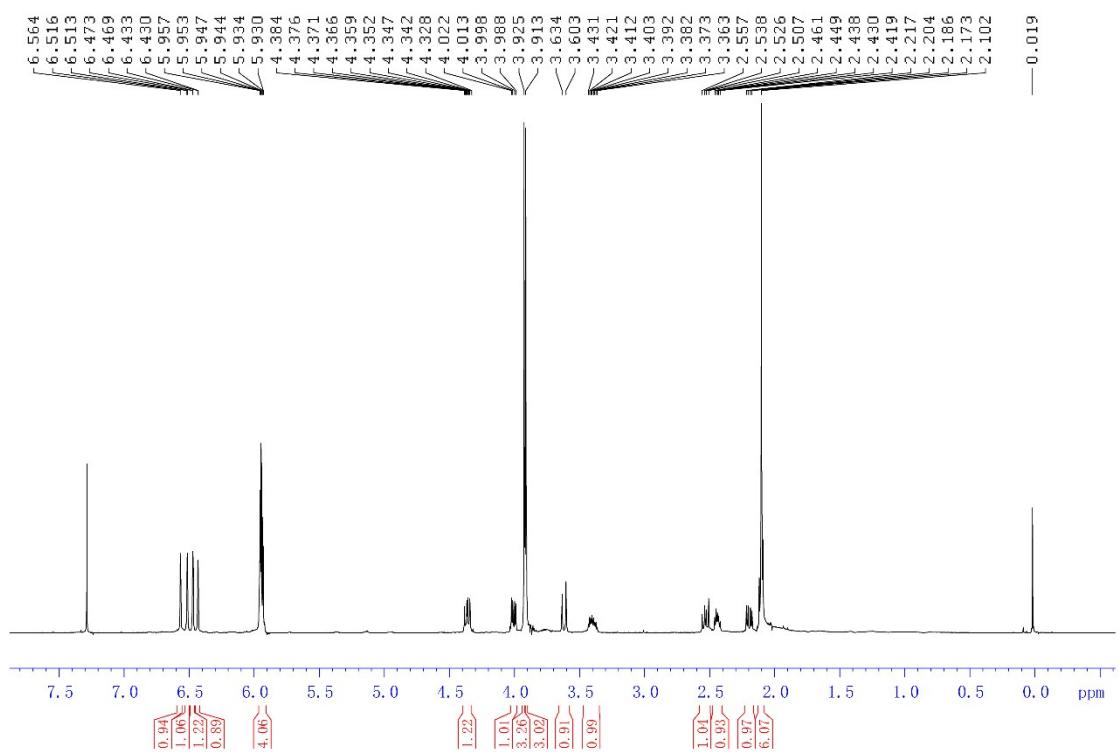


Supplementary Information II (Figures)

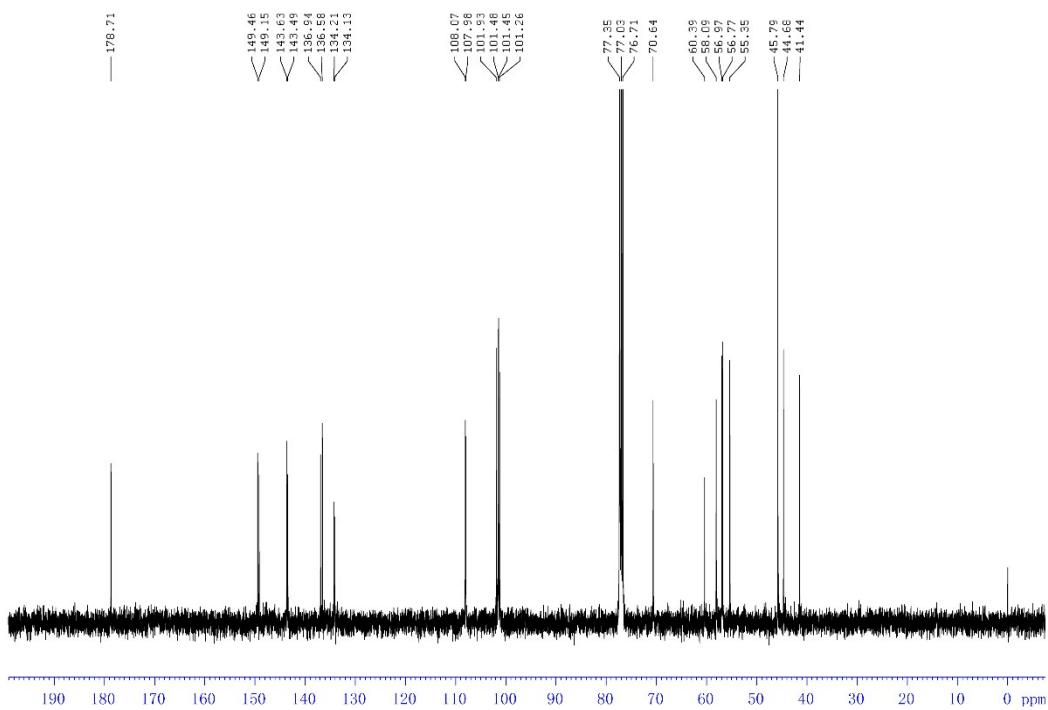
Figure Captions

- Figure S1.** ^1H -NMR (1-a), ^{13}C -NMR (1-b) and HR-ESI-MS (1-c) spectra of compound 2
- Figure S2.** ^1H -NMR (2-a), ^{13}C -NMR (2-b) and HR-ESI-MS (2-c) spectra of compound 3
- Figure S3.** ^1H -NMR (3-a), ^{13}C -NMR (3-b) and HR-ESI-MS (3-c) spectra of compound 4
- Figure S4.** ^1H -NMR (4-a), ^{13}C -NMR (4-b) and HR-ESI-MS (4-c) spectra of compound 5
- Figure S5.** ^1H -NMR (5-a), ^{13}C -NMR (5-b) and HR-ESI-MS (5-c) spectra of compound 6
- Figure S6.** ^1H -NMR (6-a), ^{13}C -NMR (6-b) and HR-ESI-MS (6-c) spectra of compound 7
- Figure S7.** ^1H -NMR (7-a), ^{13}C -NMR (7-b) and HR-ESI-MS (7-c) spectra of compound 8
- Figure S8.** ^1H -NMR (8-a), ^{13}C -NMR (8-b) and HR-ESI-MS (8-c) spectra of compound 9
- Figure S9.** ^1H -NMR (9-a), ^{13}C -NMR (9-b) and HR-ESI-MS (9-c) spectra of compound 10
- Figure S10.** ^1H -NMR (10-a), ^{13}C -NMR (10-b) and HR-ESI-MS (10-c) spectra of compound 11
- Figure S11.** ^1H -NMR (11-a), ^{13}C -NMR (11-b) and HR-ESI-MS (11-c) spectra of compound 12
- Figure S12.** ^1H -NMR (12-a), ^{13}C -NMR (12-b) and HR-ESI-MS (12-c) spectra of compound 13
- Figure S13.** ^1H -NMR (13-a), ^{13}C -NMR (13-b) and HR-ESI-MS (13-c) spectra of compound 14
- Figure S14.** ^1H -NMR (14-a), ^{13}C -NMR (14-b) and HR-ESI-MS (14-c) spectra of compound 15
- Figure S15.** ^1H -NMR (15-a), ^{13}C -NMR (15-b) and HR-ESI-MS (15-c) spectra of compound 16
- Figure S16.** ^1H -NMR (16-a), ^{13}C -NMR (16-b) and HR-ESI-MS (16-c) spectra of compound 17
- Figure S17.** ^1H -NMR (17-a), ^{13}C -NMR (17-b) and HR-ESI-MS (17-c) spectra of compound 18
- Figure S18.** ^1H -NMR (18-a), ^{13}C -NMR (18-b) and HR-ESI-MS (18-c) spectra of compound 19
- Figure S19.** Purity test of compound 2 by HPLC ($\lambda=210$ nm)
- Figure S20.** Purity test of compound 3 by HPLC ($\lambda=210$ nm)
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- Figure S22.** Purity test of compound 5 by HPLC ($\lambda=210$ nm)
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- Figure S32.** Purity test of compound 15 by HPLC ($\lambda=210$ nm)
- Figure S33.** Purity test of compound 16 by HPLC ($\lambda=210$ nm)
- Figure S34.** Purity test of compound 17 by HPLC ($\lambda=210$ nm)
- Figure S35.** Purity test of compound 18 by HPLC ($\lambda=210$ nm)
- Figure S36.** Purity test of compound 19 by HPLC ($\lambda=210$ nm)

1-a



1-b



1-c

Spectrum from DataSET11.wiff (sample 1) - pepAME-1, Experiment 1, +TOF MS (100 - 1000)

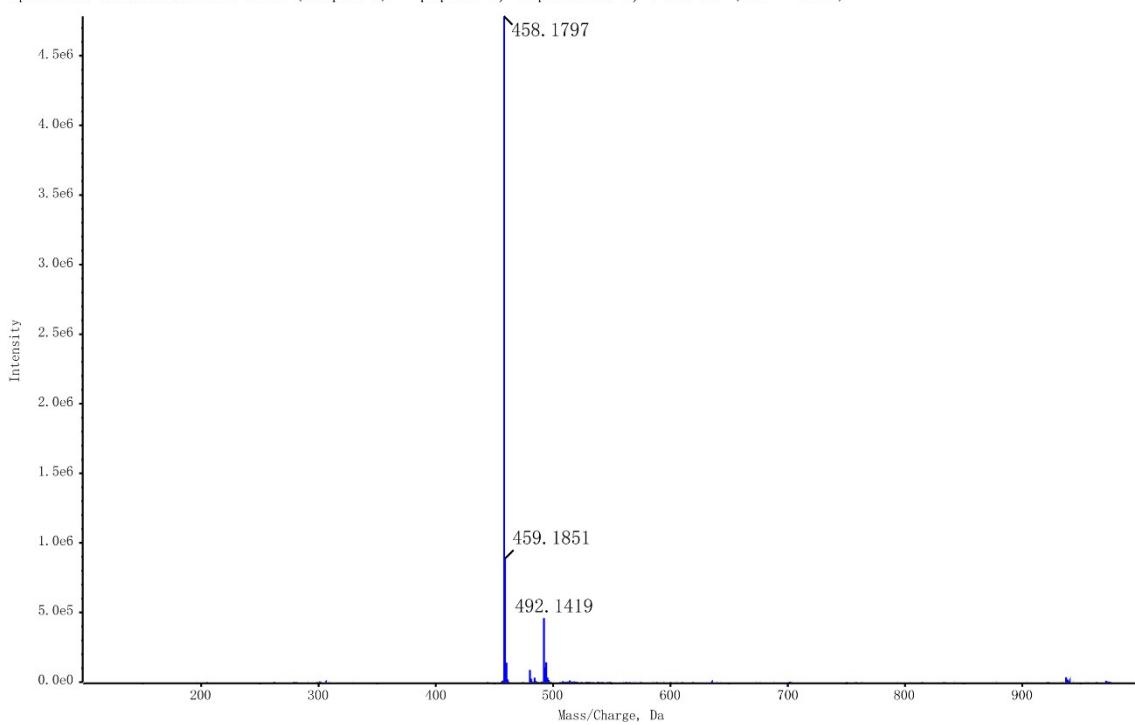
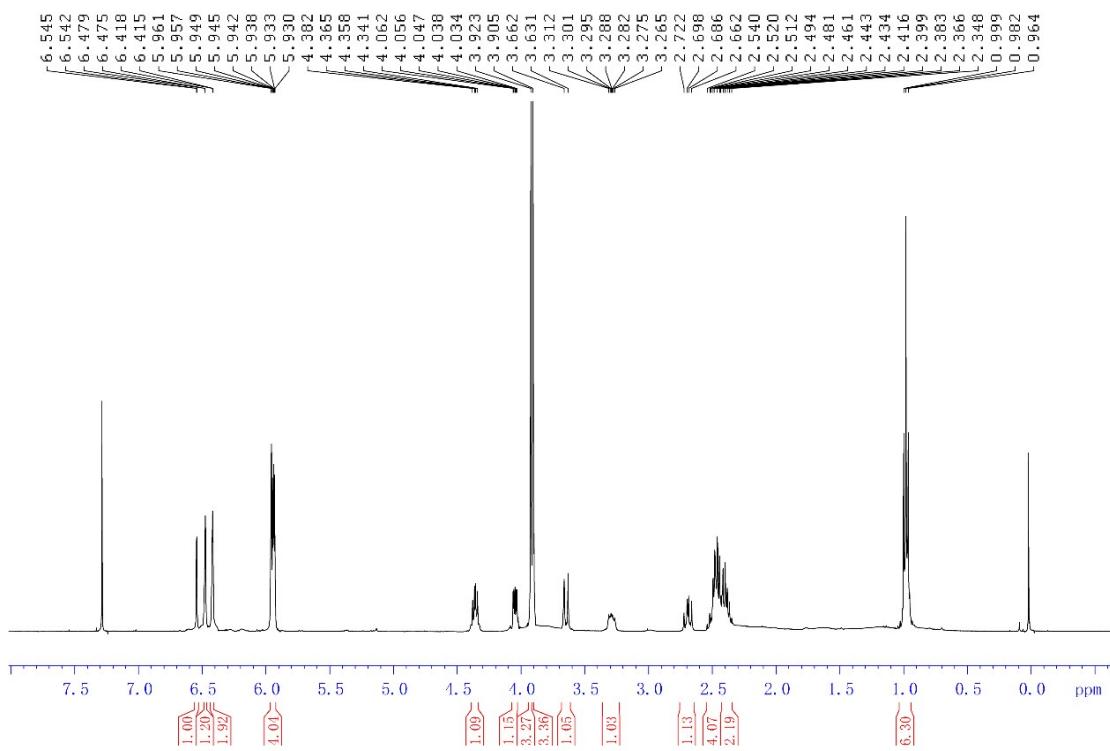
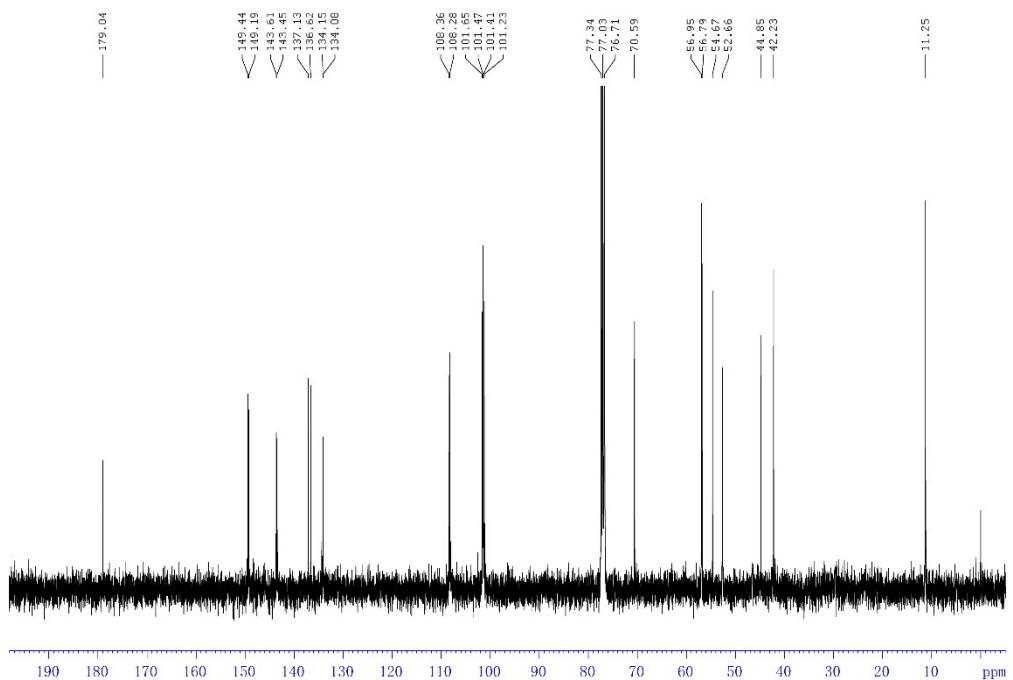


Figure S1. ^1H -NMR (1-a), ^{13}C -NMR (1-b) and HR-ESI-MS (1-c) spectra of compound 2

2-a



2-b



2-c

Spectrum from DataSET12.wiff (sample 2) - pepAME-2, Experiment 1, +TOF MS (100 - 1000)

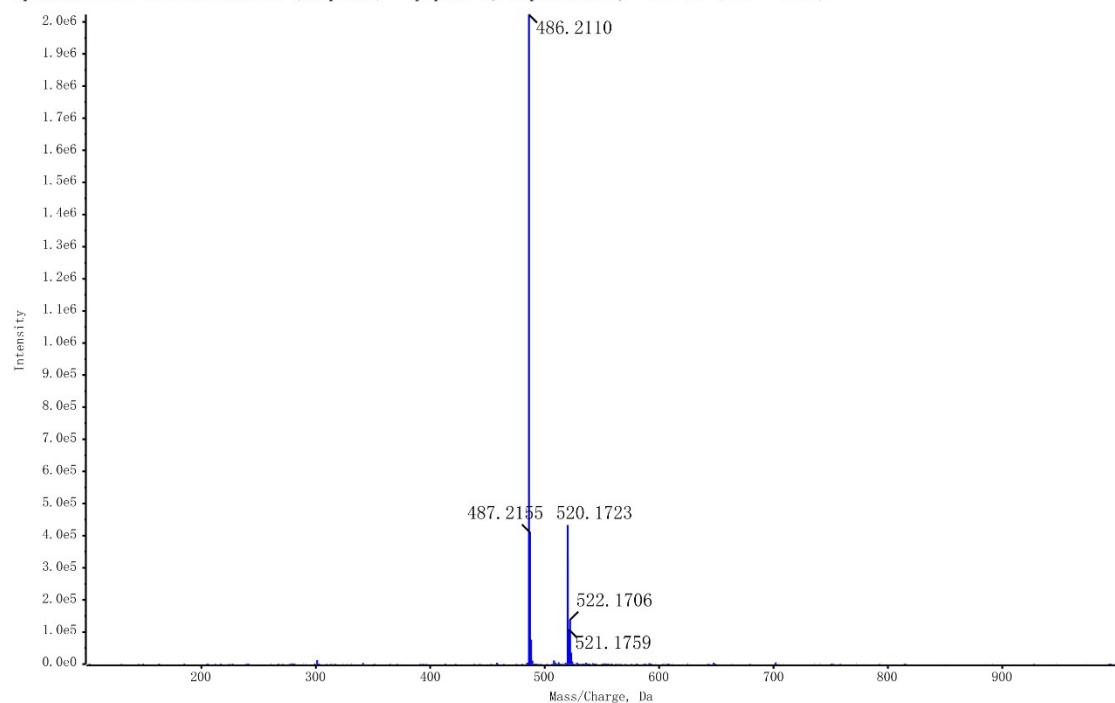
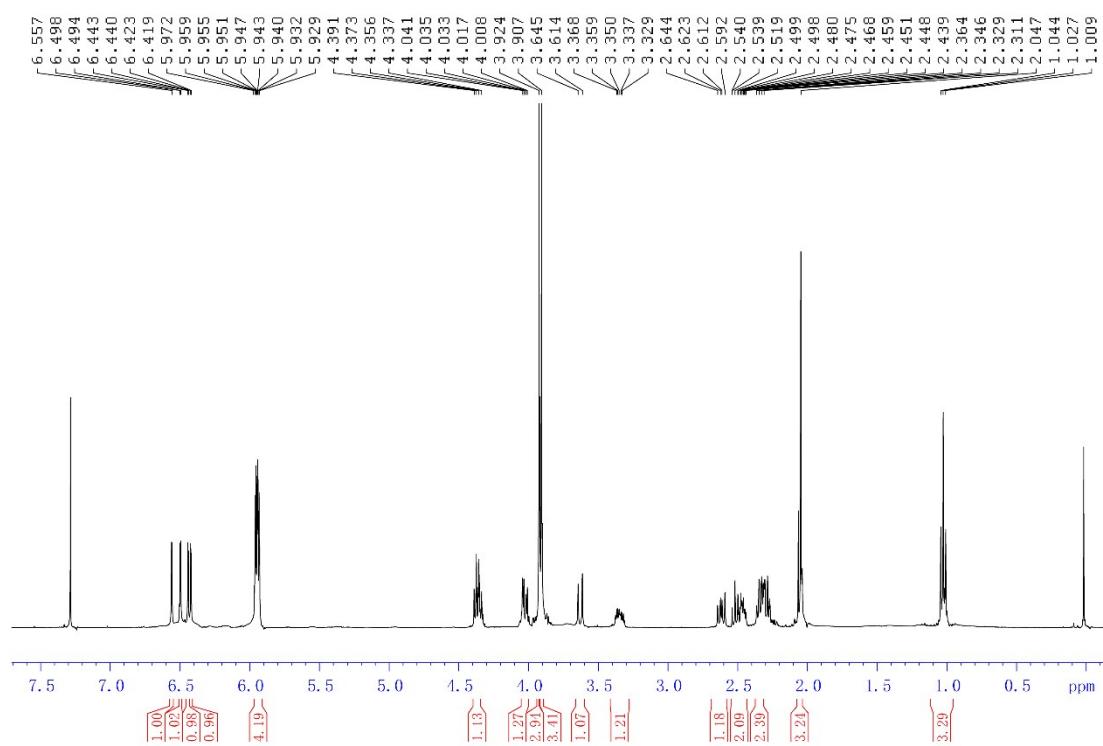
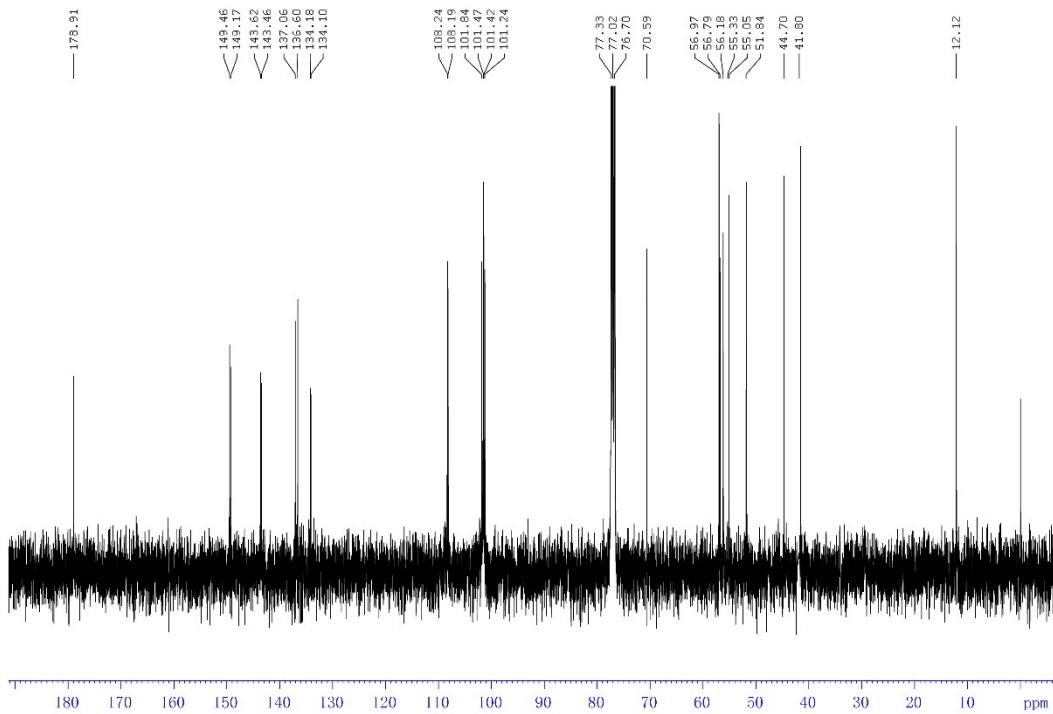


Figure S2. ¹H-NMR (2-a), ¹³C-NMR (2-b) and HR-ESI-MS (2-c) spectra of compound 3

3-a



3-b



3-c

Spectrum from DataSET110.wiff (sample 3) - pepAME-3, Experiment 1, +TOF MS (100 – 1000)

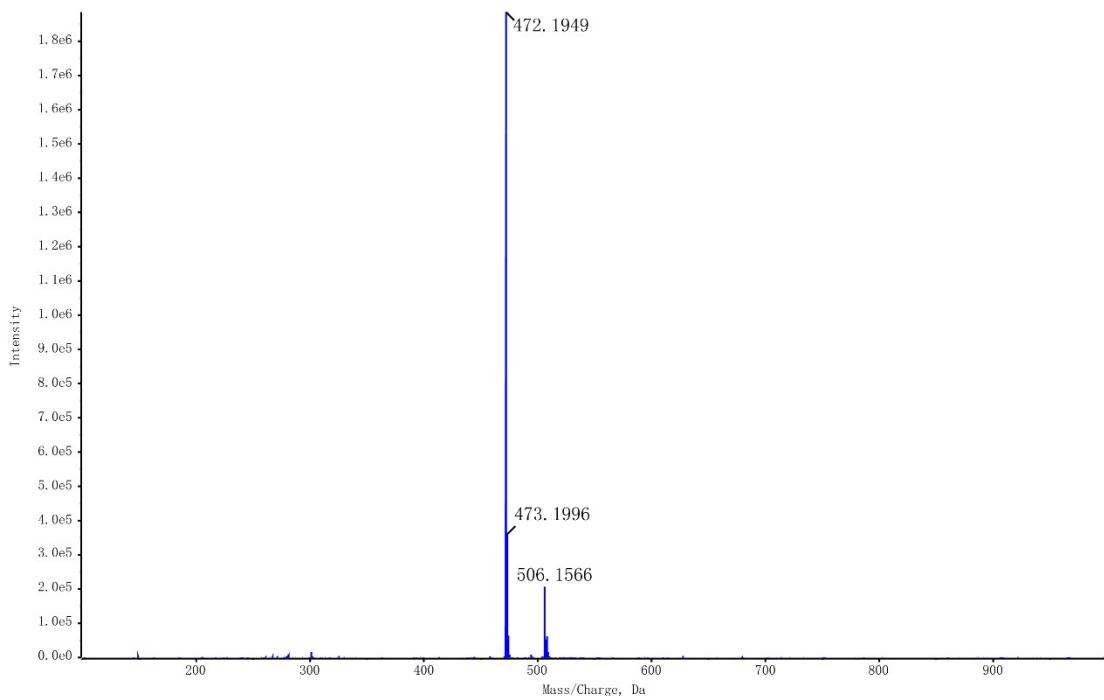
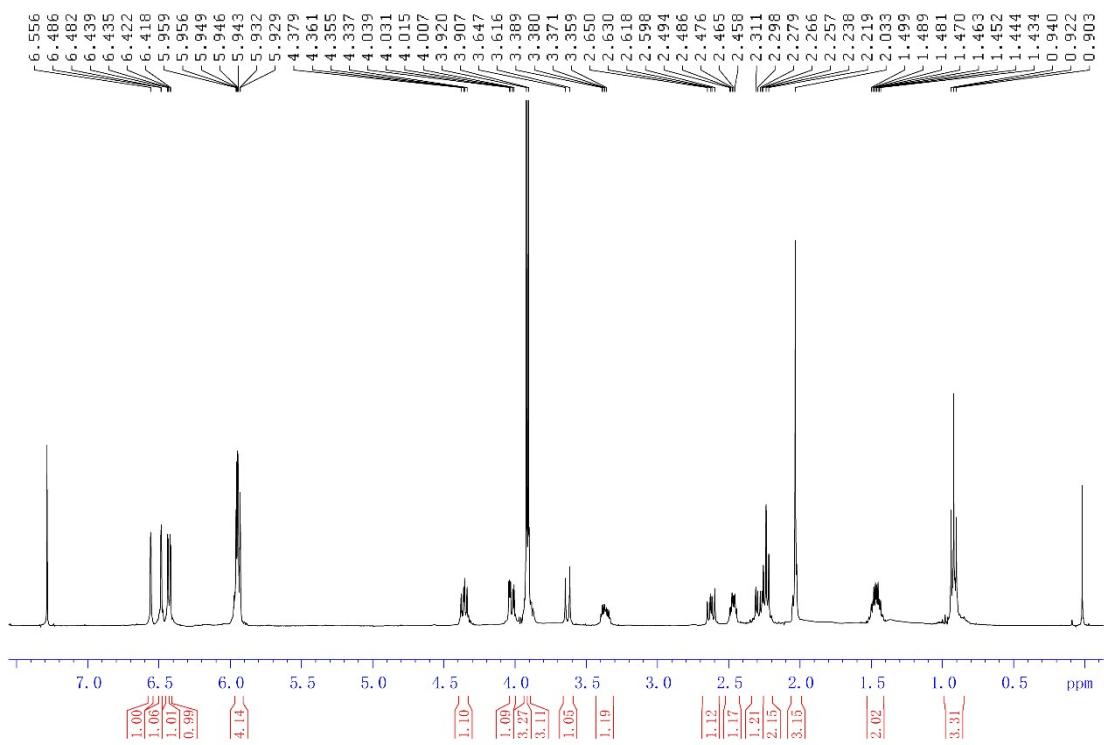
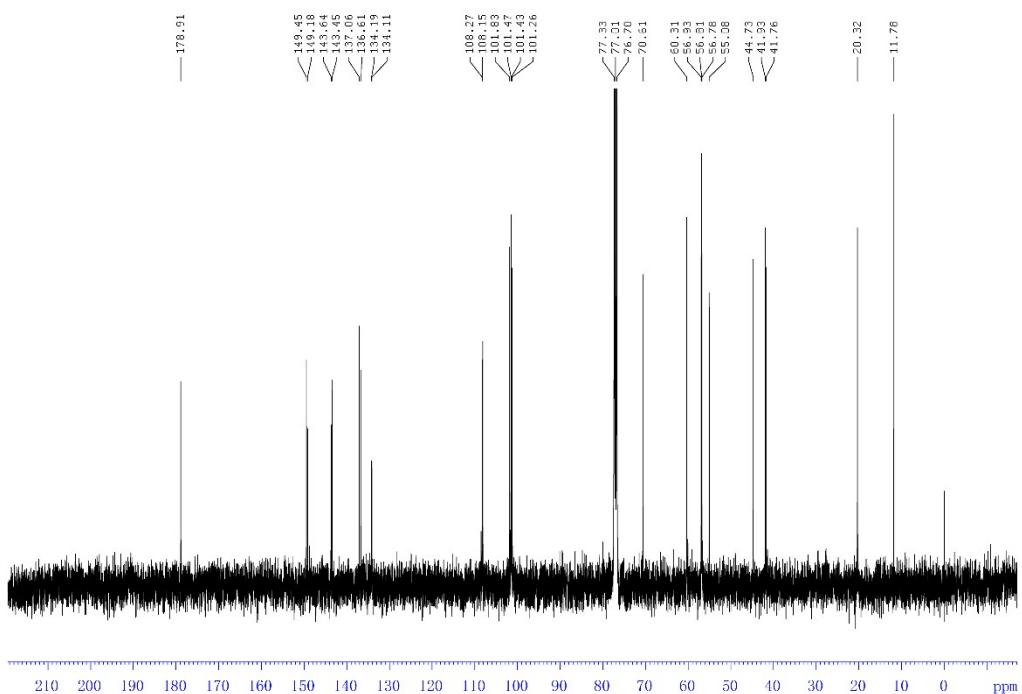


Figure S3. ^1H -NMR (3-a), ^{13}C -NMR (3-b) and HR-ESI-MS (3-c) spectra of compound 4

4-a



4-b



4-c

Spectrum from DataSET13.wiff (sample 4) - pepAME-4, Experiment 1, +TOF MS (100 - 1000)

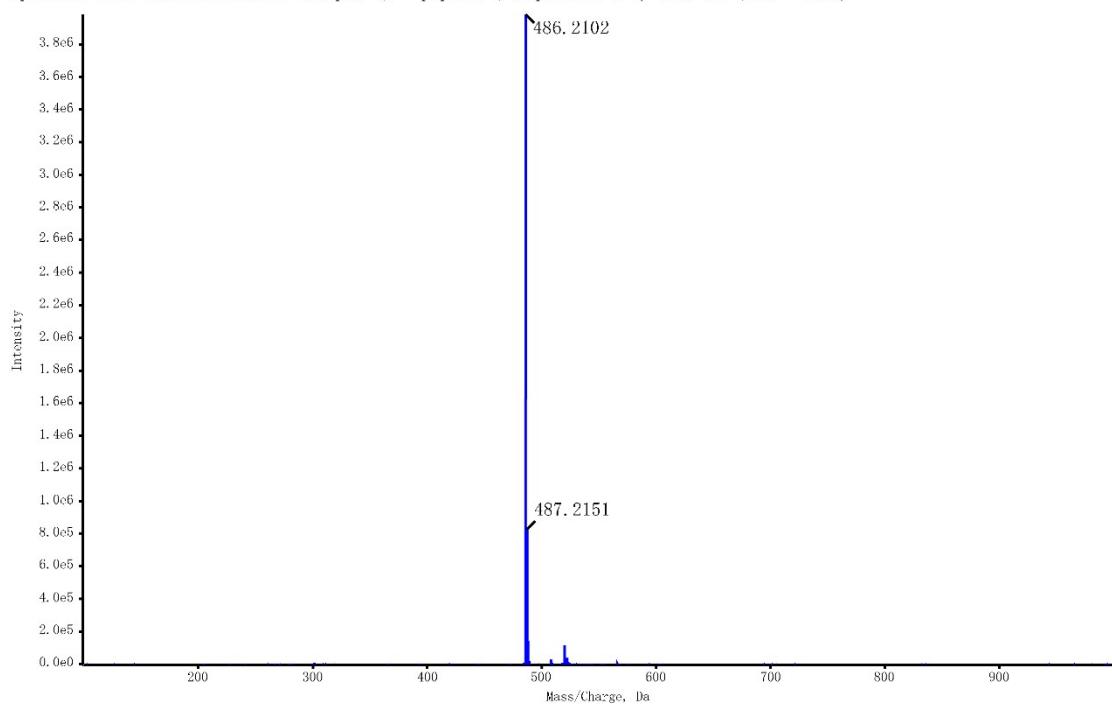
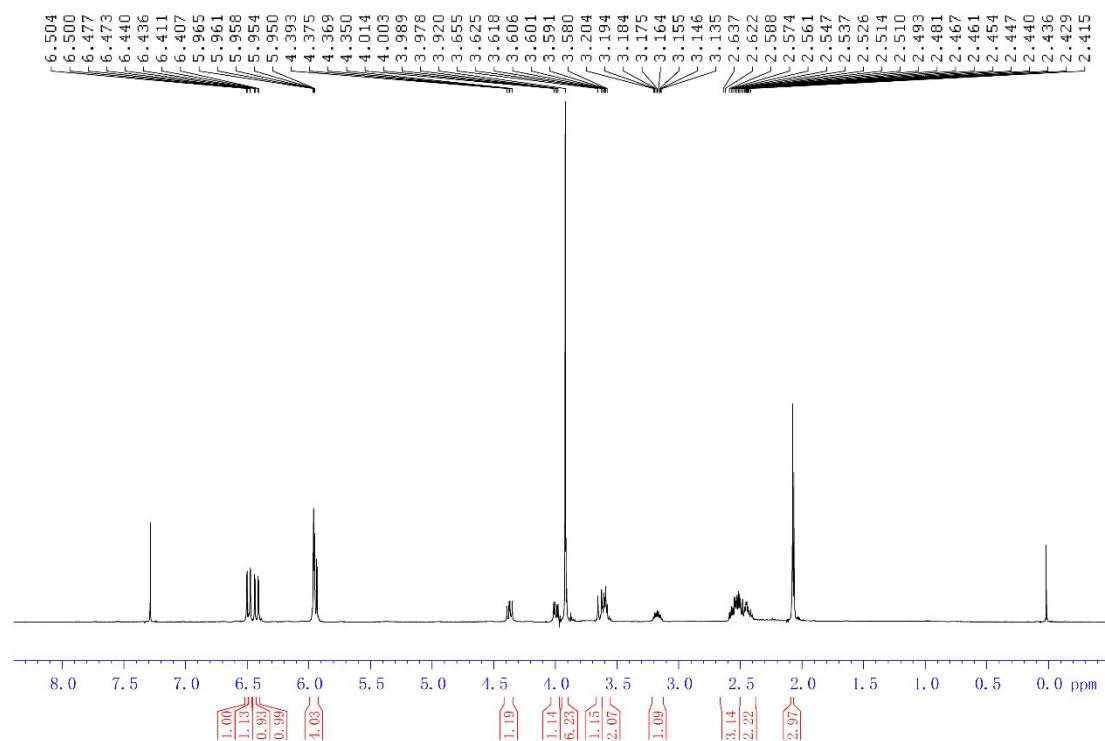
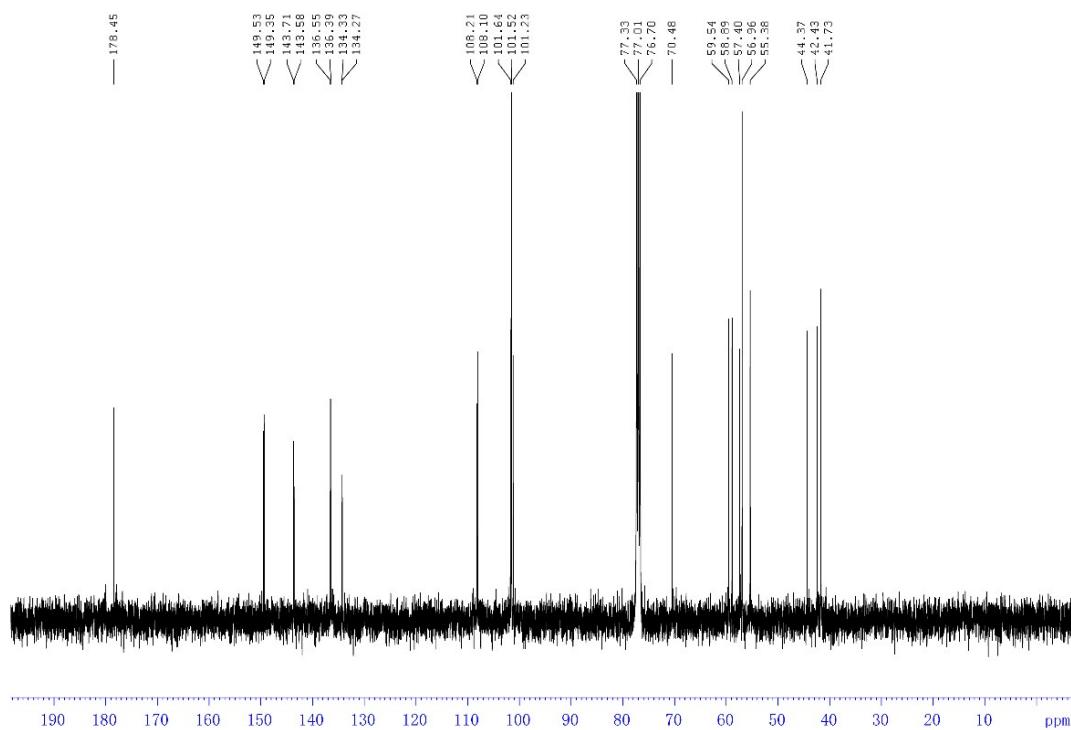


Figure S4. ¹H-NMR (4-a), ¹³C-NMR (4-b) and HR-ESI-MS (4-c) spectra of compound 5

5-a



5-b



5-C

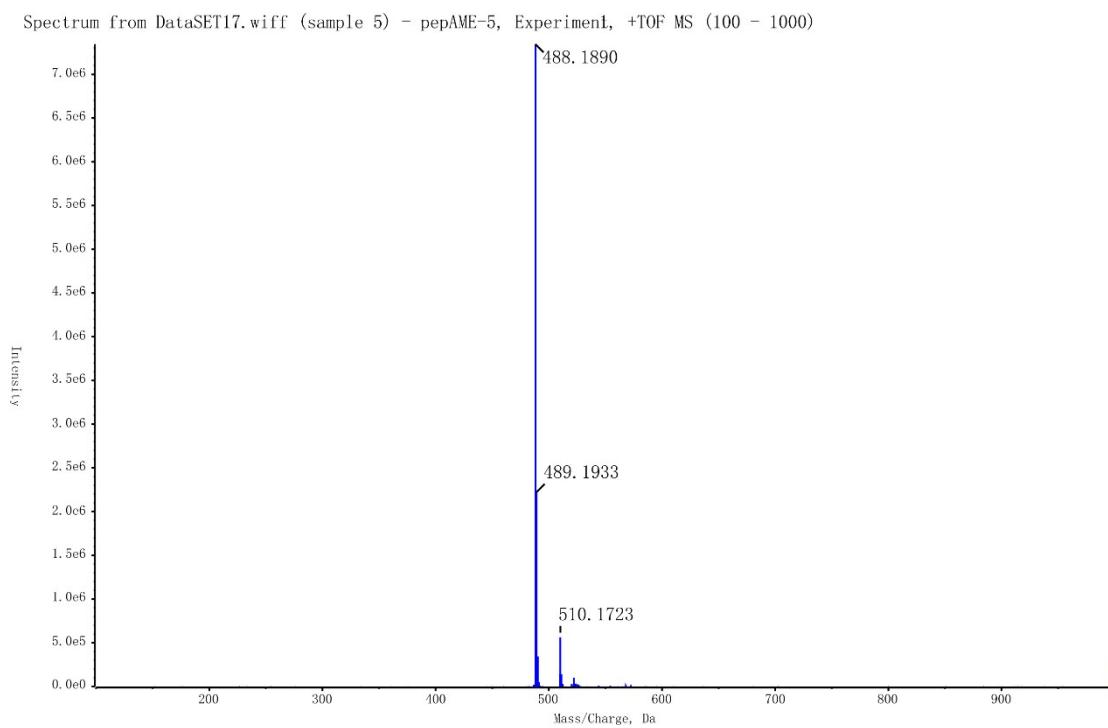
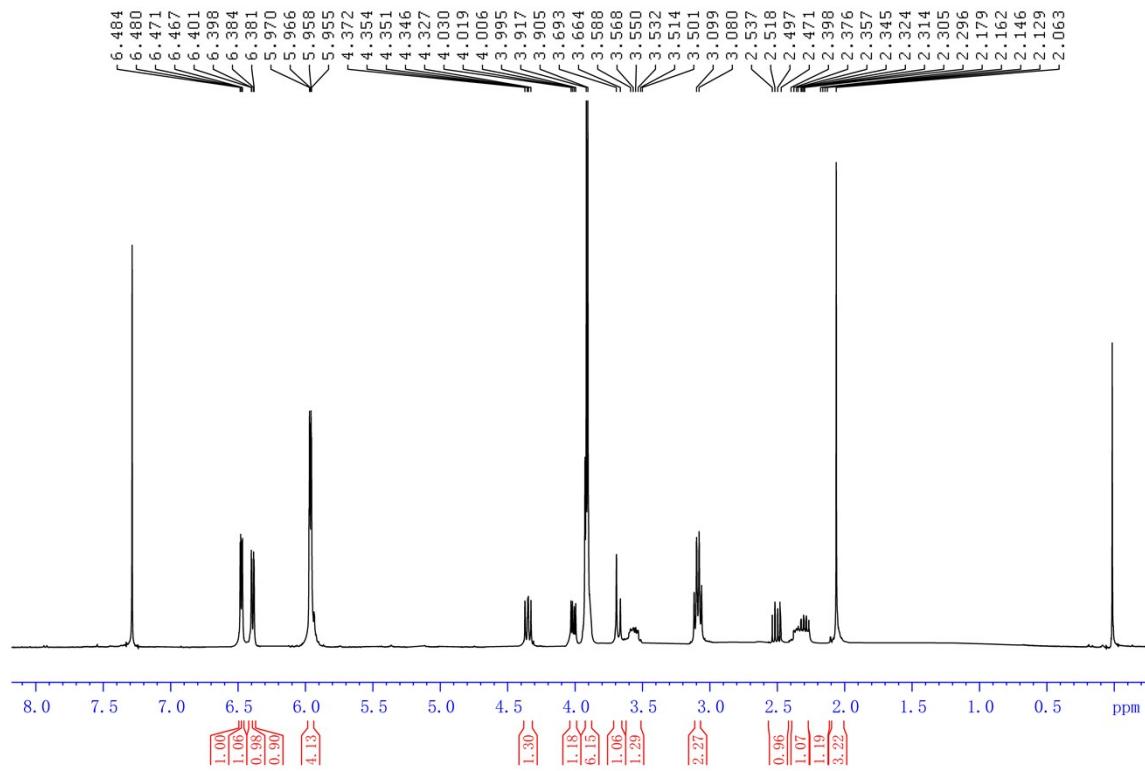
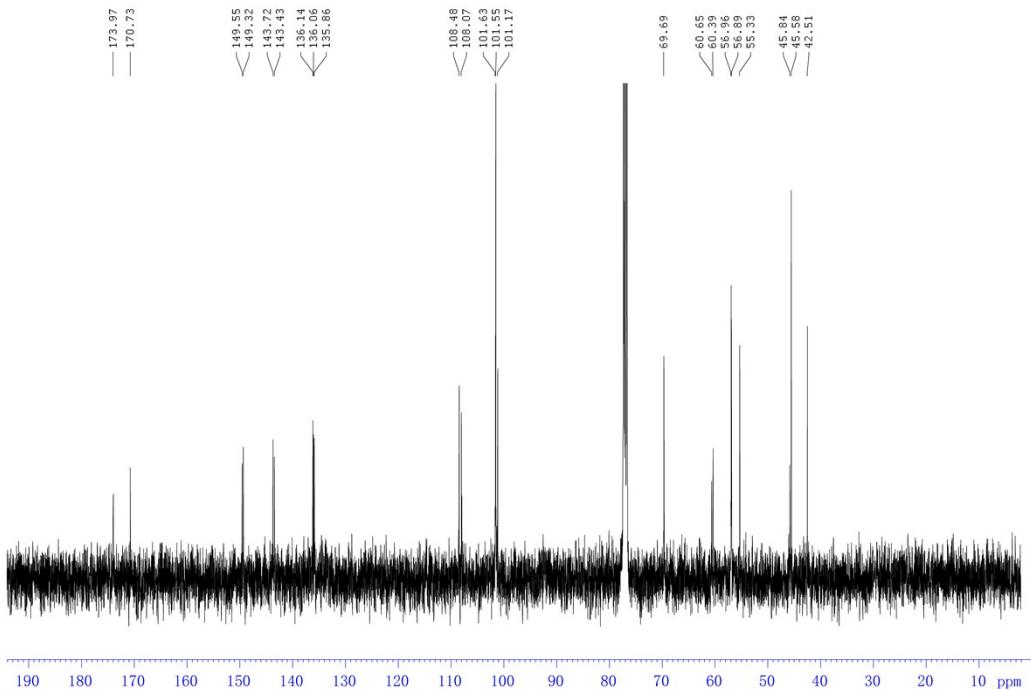


Figure S5. ^1H -NMR (5-a), ^{13}C -NMR (5-b) and HR-ESI-MS (5-c) spectra of compound 6

6-a



6-b



6-c

Spectrum from DataSET120.wiff (sample 6) - Sample006, Experiment 1, +TOF MS (50 - 1500)

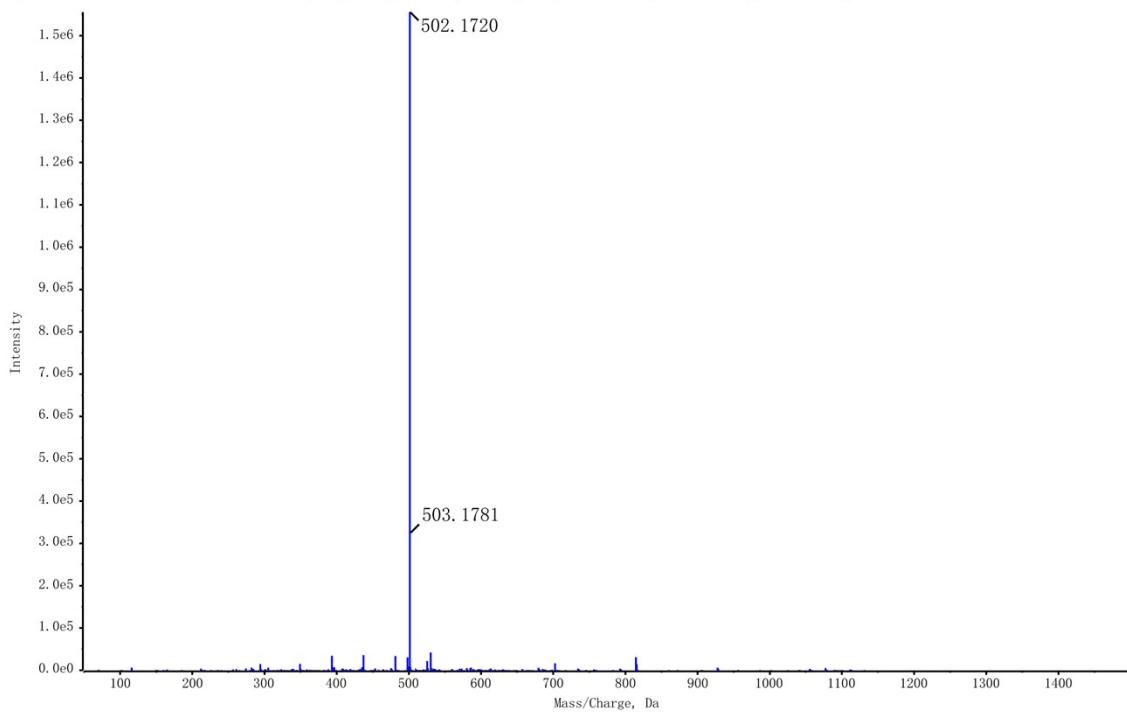
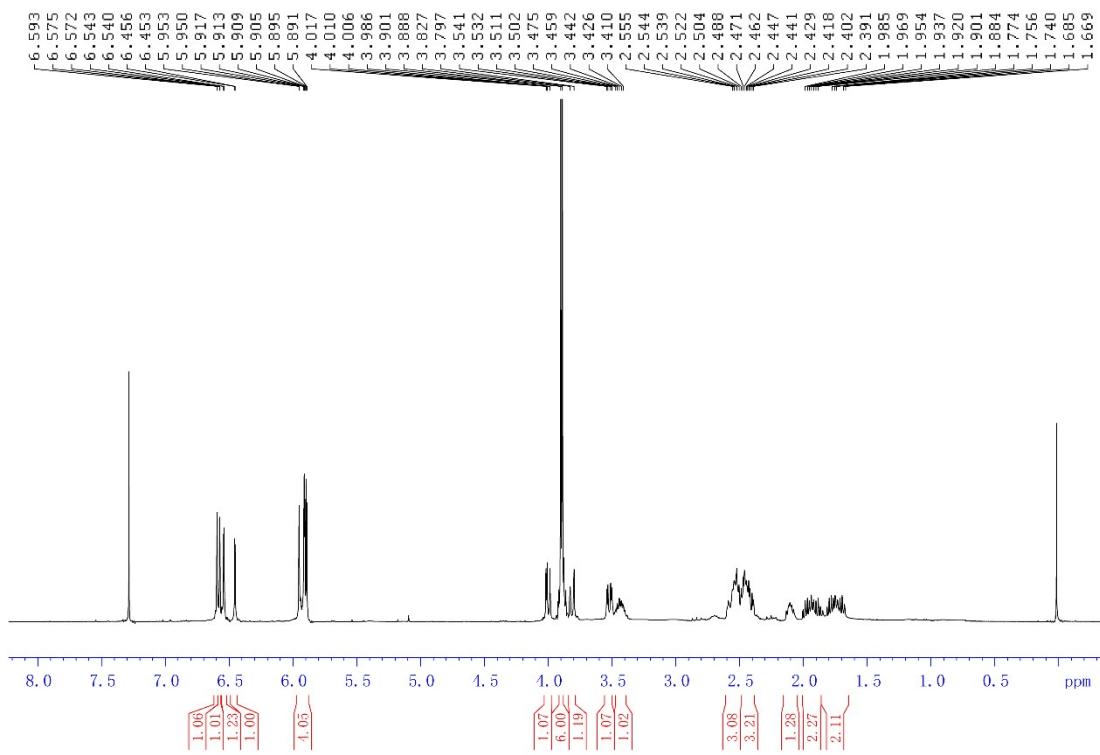
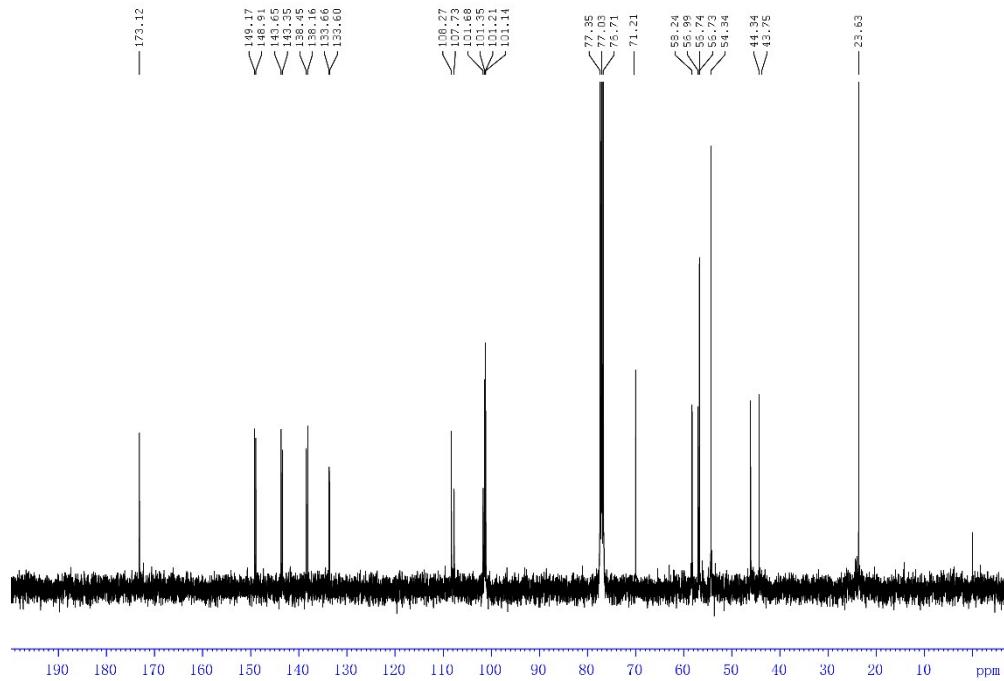


Figure S6. ¹H-NMR (6-a), ¹³C-NMR (6-b) and HR-ESI-MS (6-c) spectra of compound 7

7-a



7-b



7-c

Spectrum from DataSET11.wiff (sample 7) - pepAME-7, Experiment1, +TOF MS (100 - 1000)

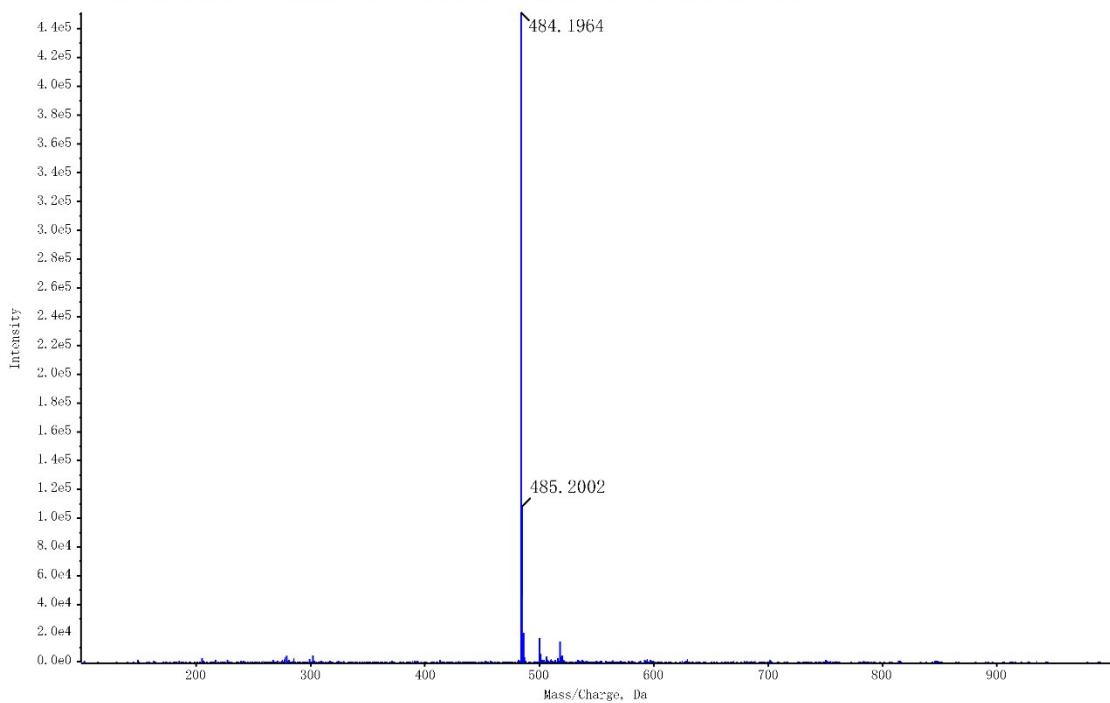
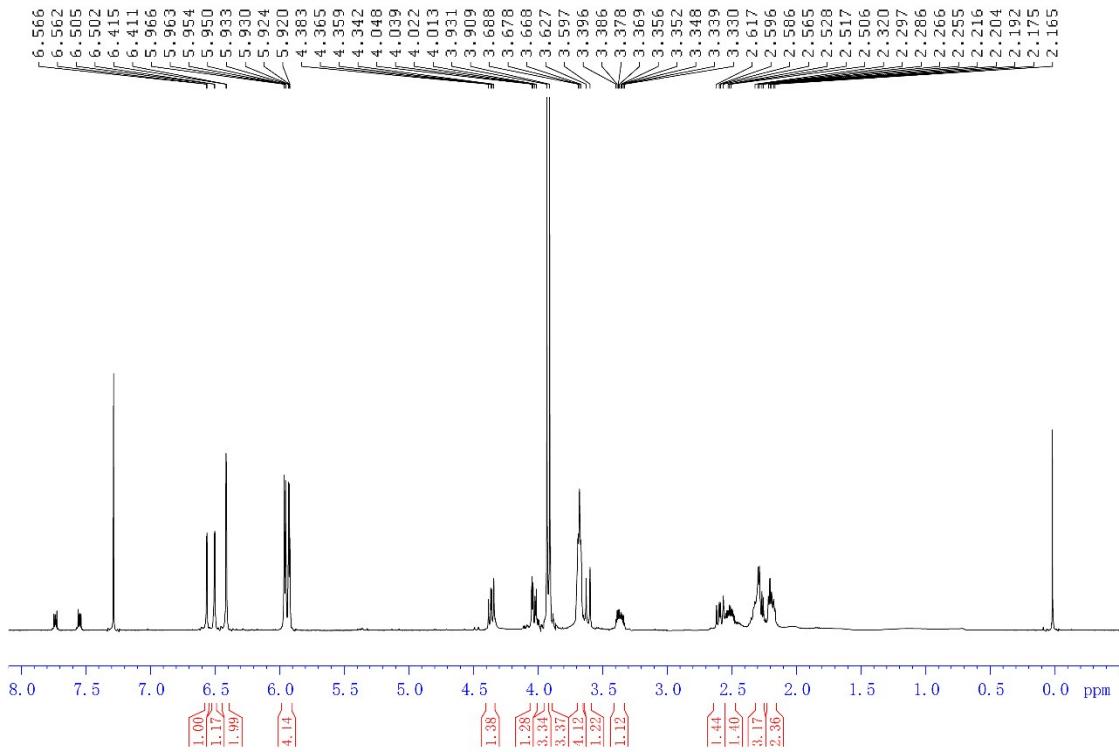
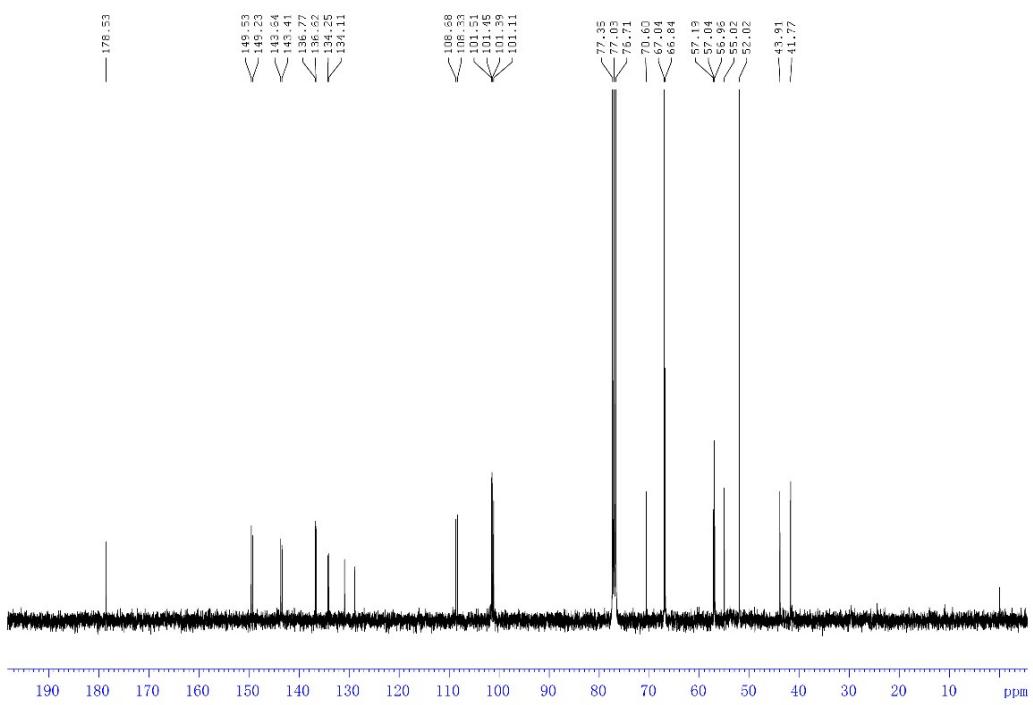


Figure S7. ^1H -NMR (7-a), ^{13}C -NMR (7-b) and HR-ESI-MS (7-c) spectra of compound 8

8-a



8-b



8-c

Spectrum from DataSET13.wiff (sample 8) - pepAME-8, Experiment1, +TOF MS (100 – 1000)

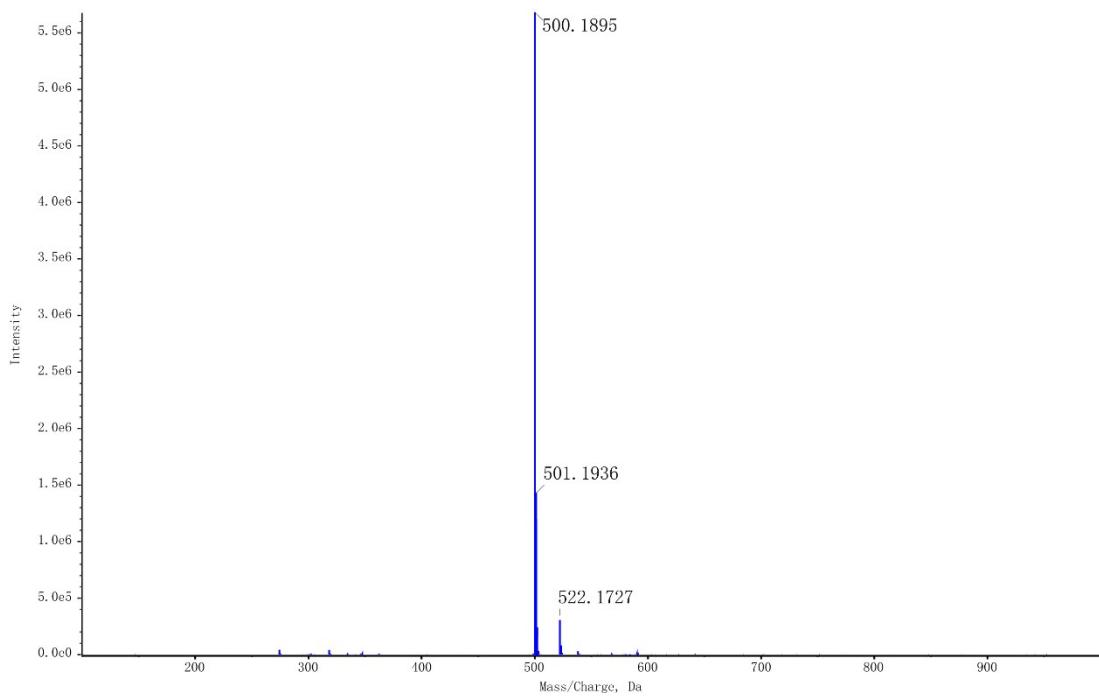
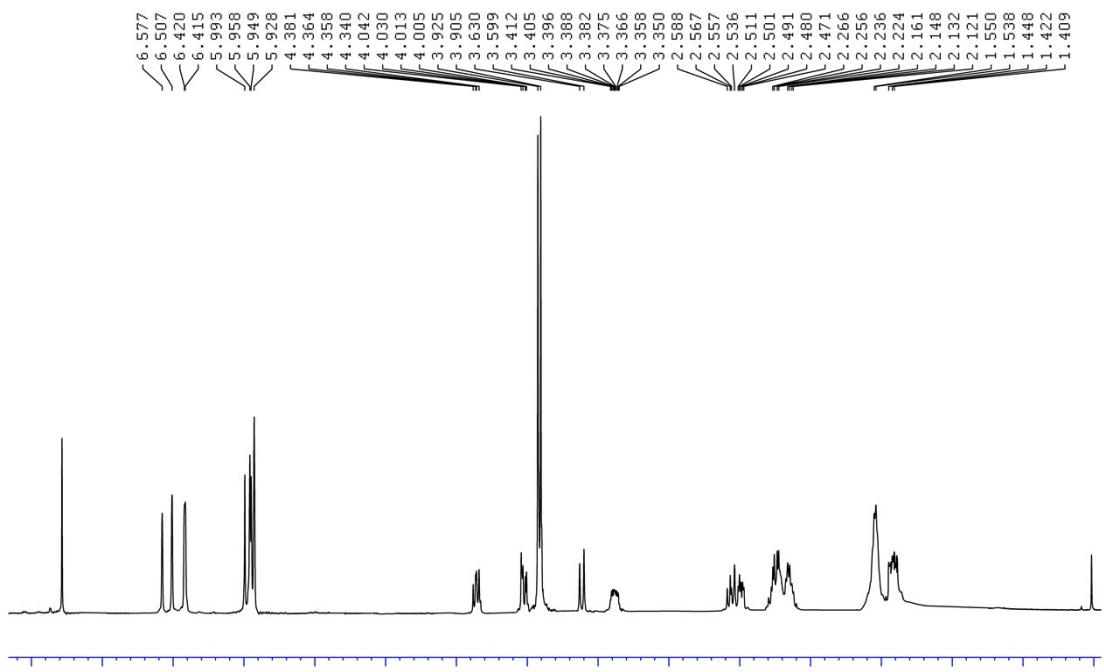
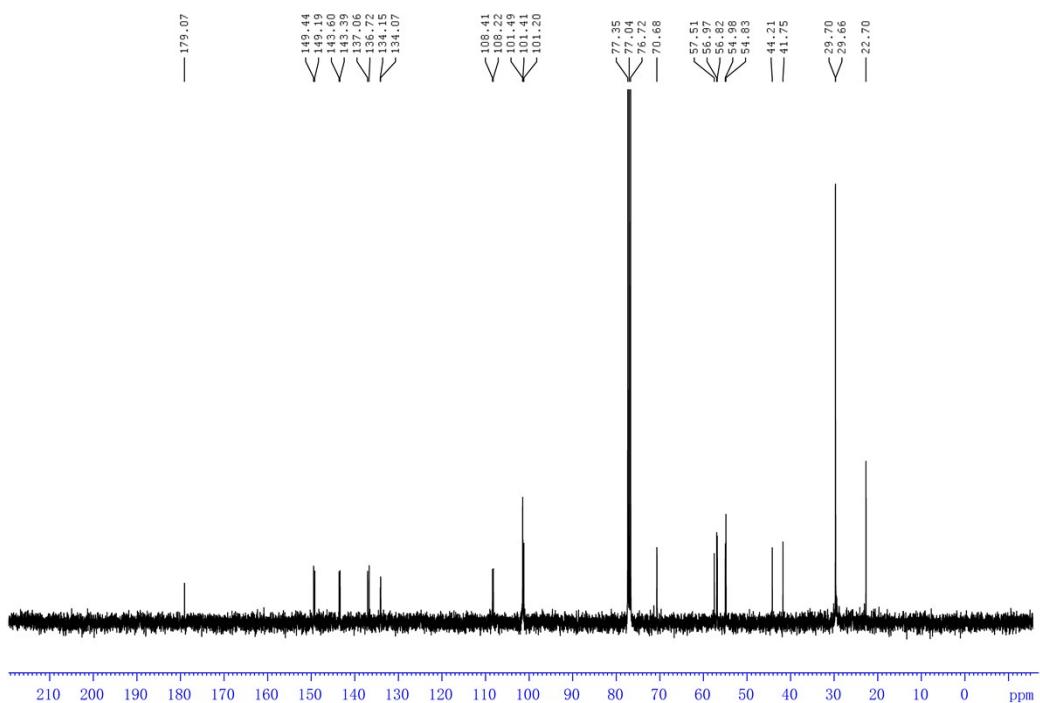


Figure S8. ^1H -NMR (8-a), ^{13}C -NMR (8-b) and HR-ESI-MS (8-c) spectra of compound 9

9-a



9-b



9-c

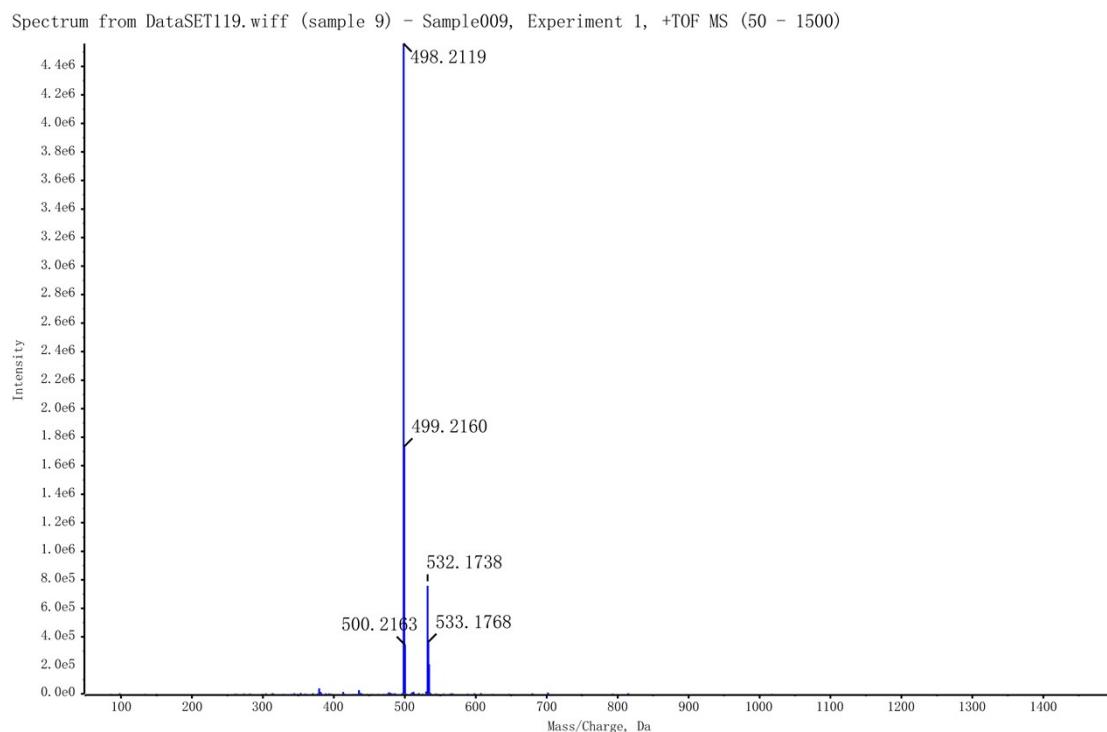
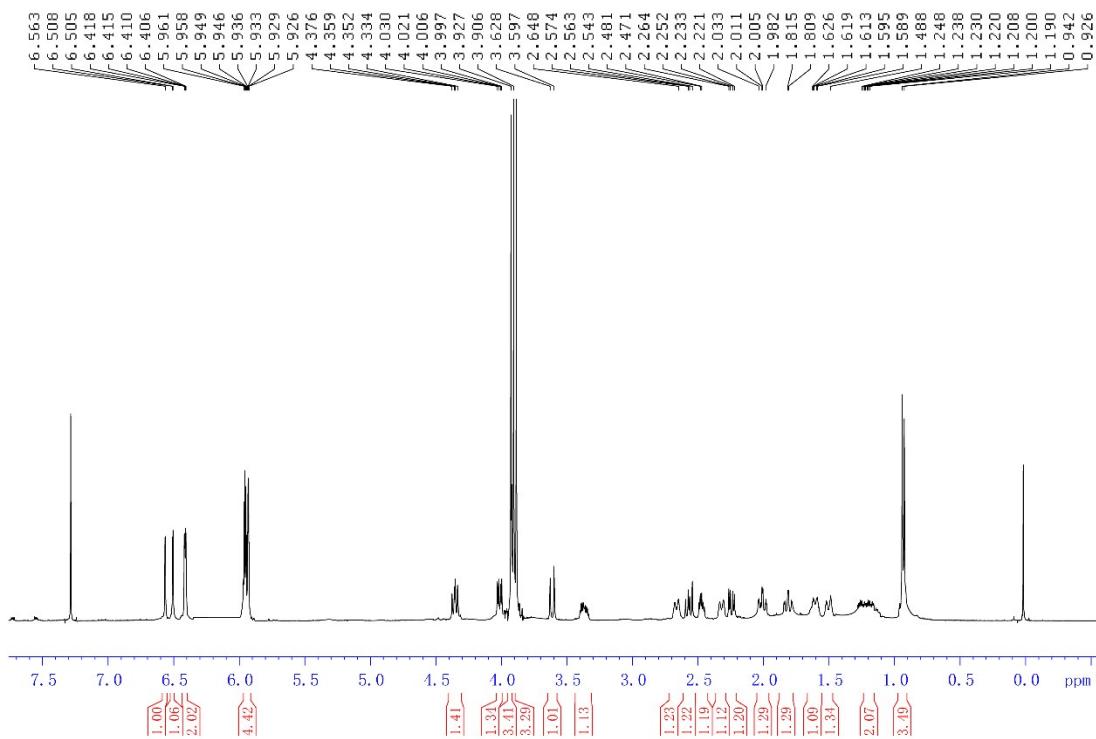
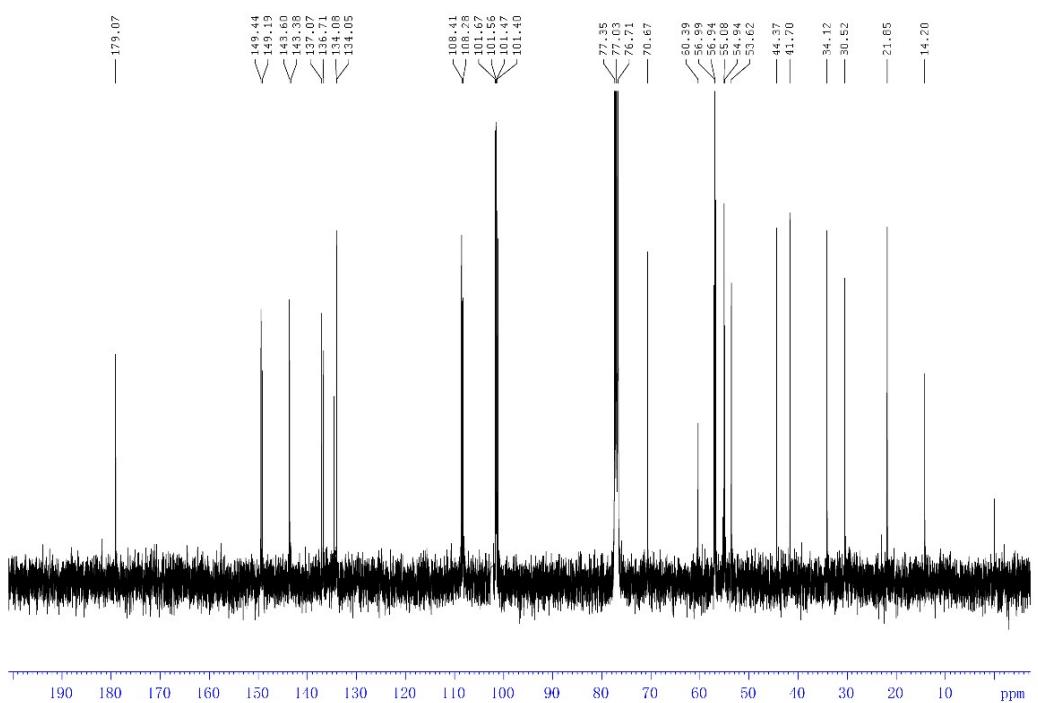


Figure S9. ^1H -NMR (9-a), ^{13}C -NMR (9-b) and HR-ESI-MS (9-c) spectra of compound 10

10-a



10-b



10-c

Spectrum from DataSET14.wiff (sample 10) – pepAME-10, Experiment 1, +TOF MS (100 – 1000)

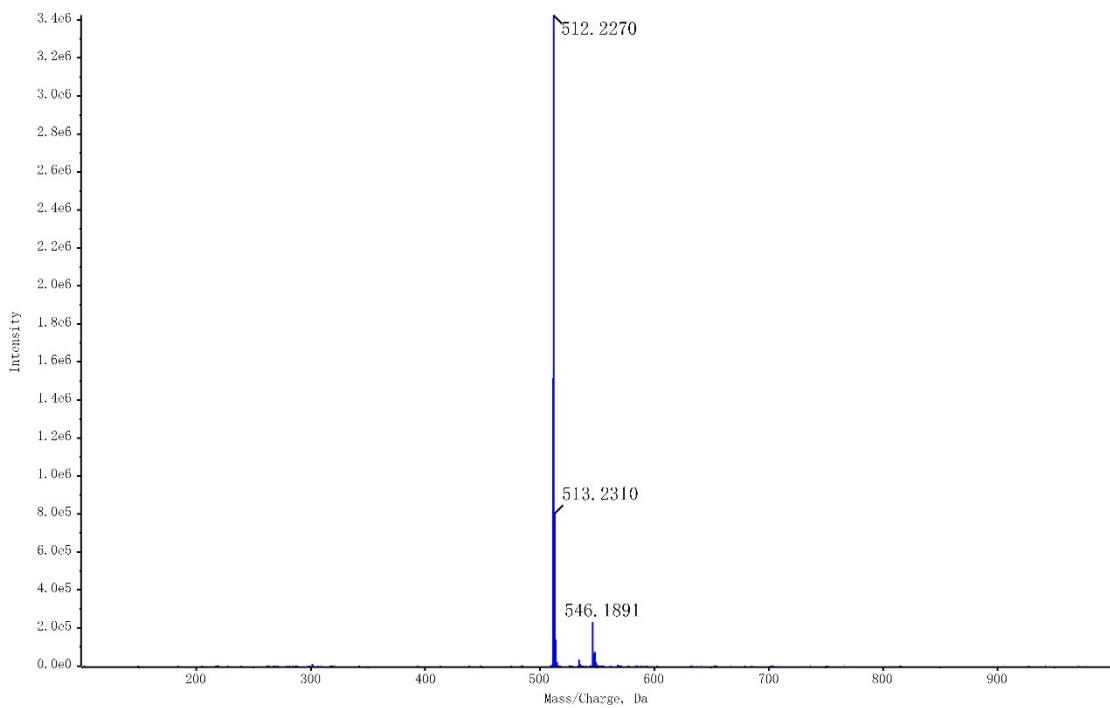
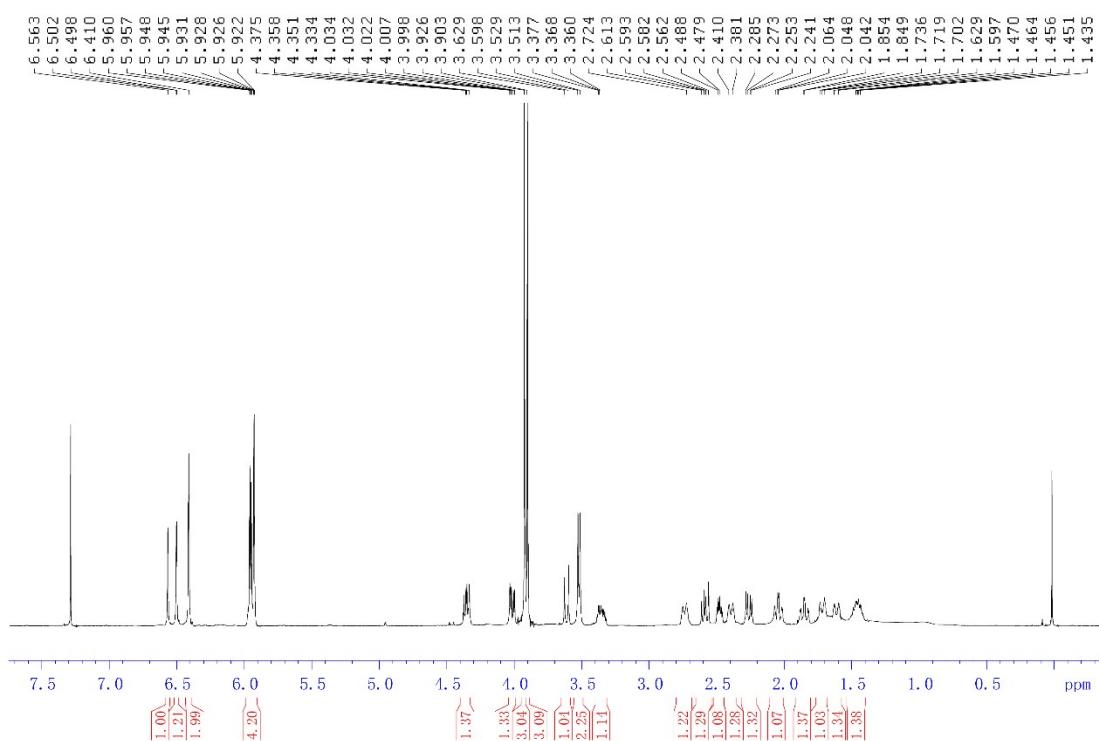
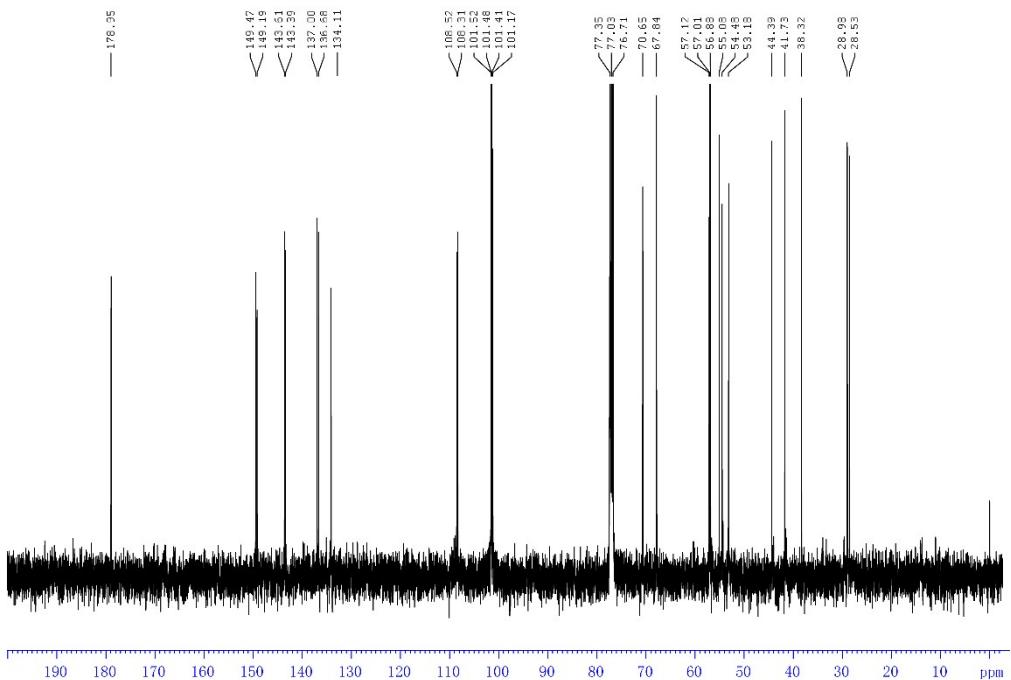


Figure S10. ^1H -NMR (10-a), ^{13}C -NMR (10-b) and HR-ESI-MS (10-c) spectra of compound 11

11-a



11-b



11-c

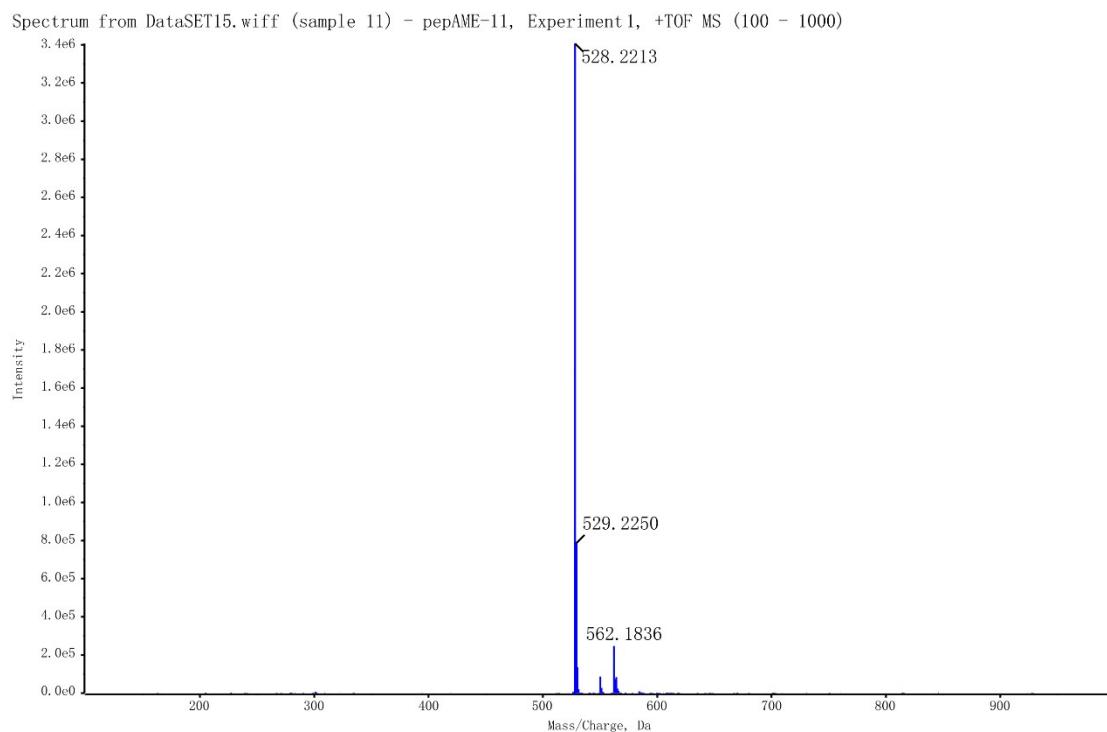
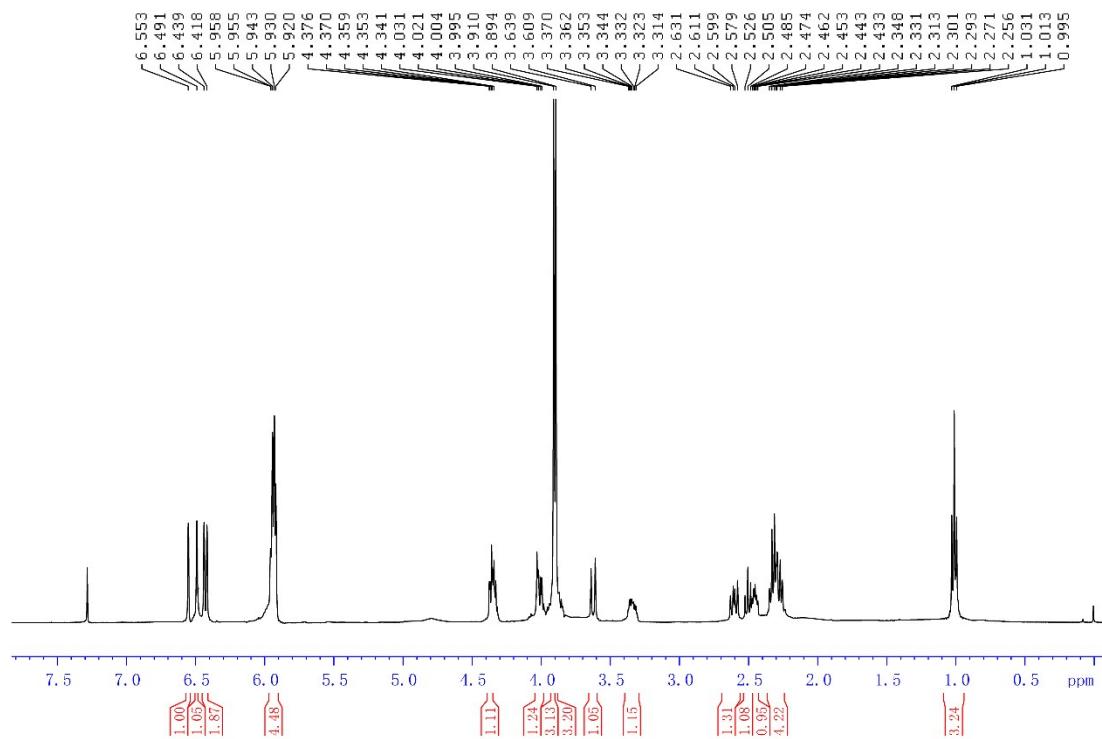
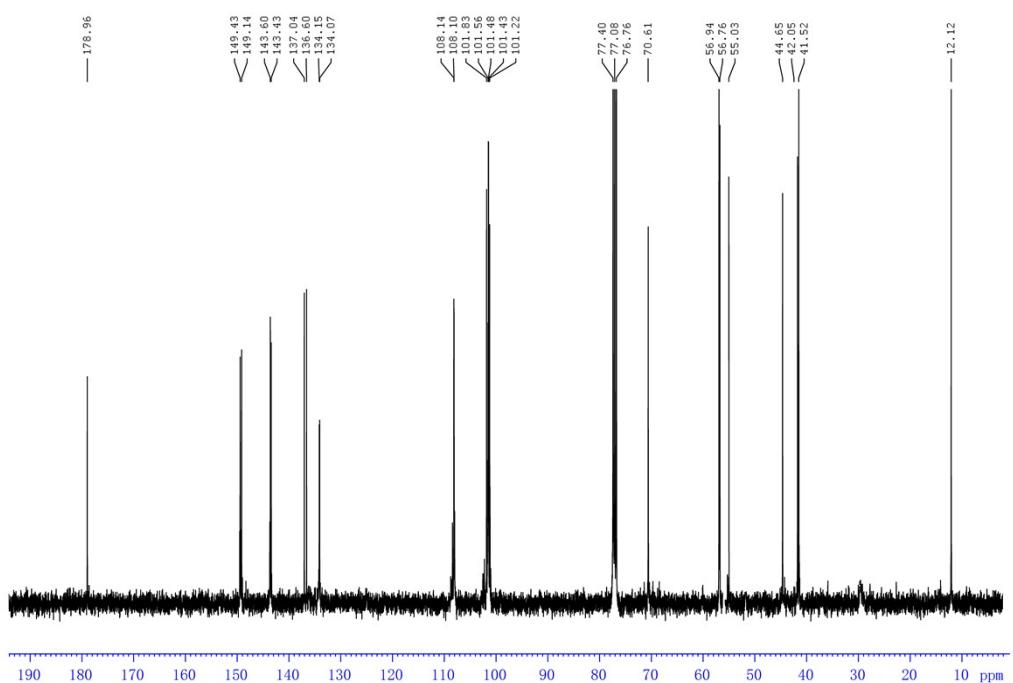


Figure S11. ^1H -NMR (11-a), ^{13}C -NMR (11-b) and HR-ESI-MS (11-c) spectra of compound 12

12-a



12-b



12-c

Spectrum from DataSET110.wiff (sample 12) - pepAME-12, Experiment 1, +TOF MS (100 – 1000)

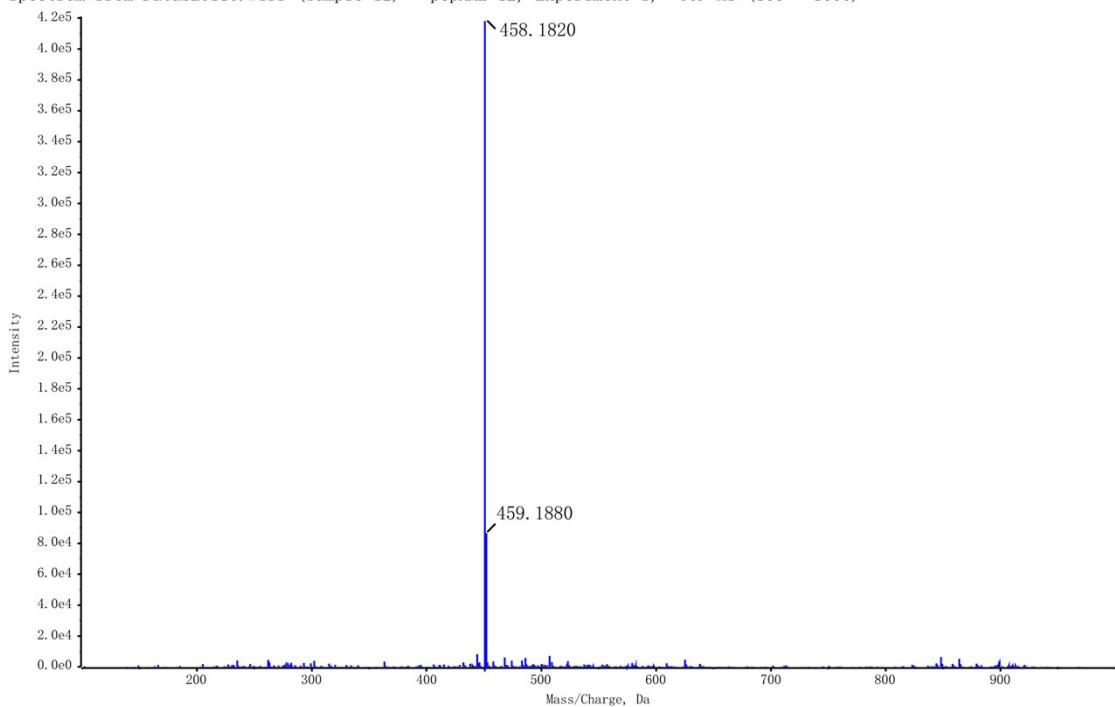
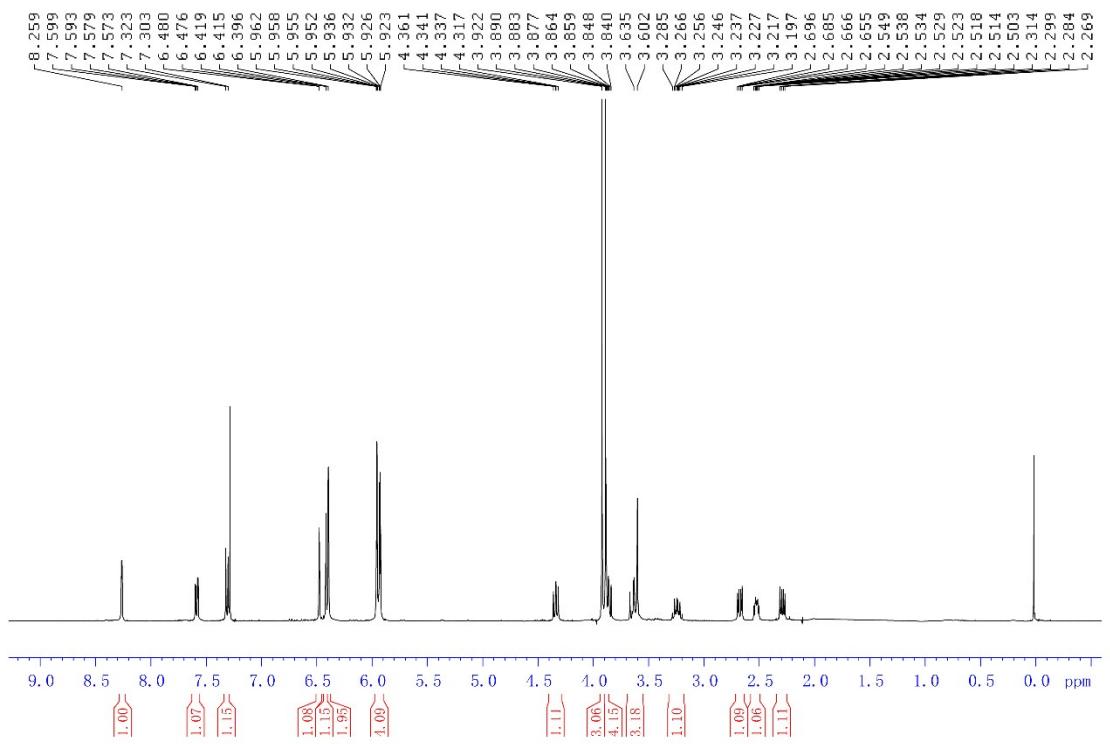
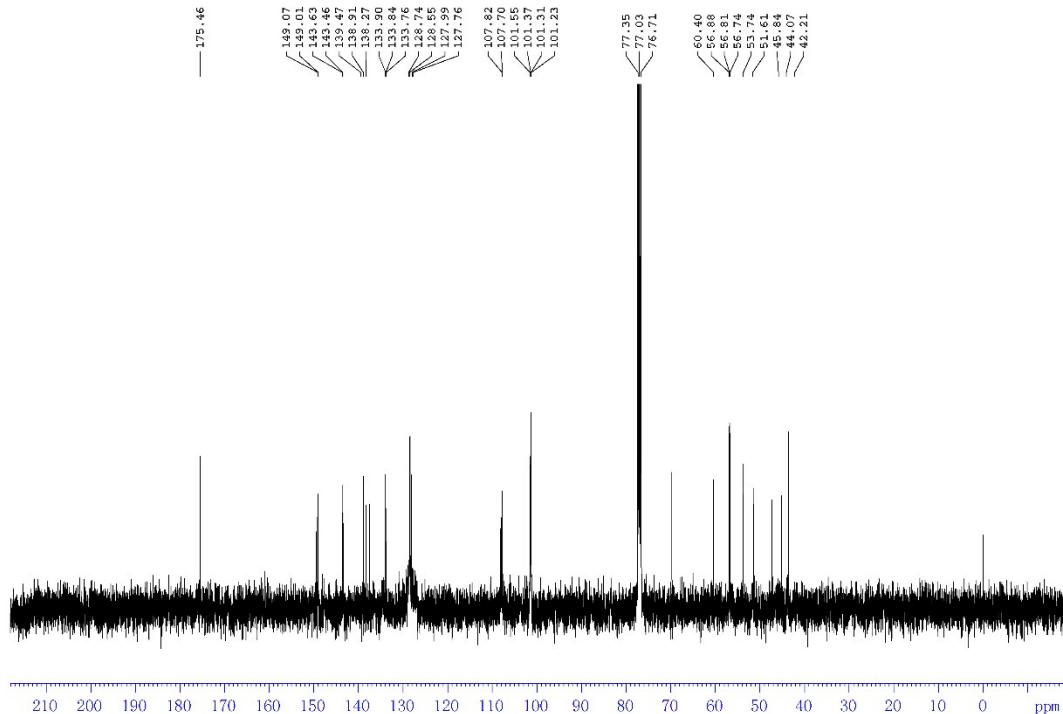


Figure S12. ^1H -NMR (12-a), ^{13}C -NMR (12-b) and HR-ESI-MS (12-c) spectra of compound 13

13-a



13-b



13-c

Spectrum from DataSET111.wiff (sample 13) - pepAME-13, Experiment 1, +TOF MS (100 - 1000)

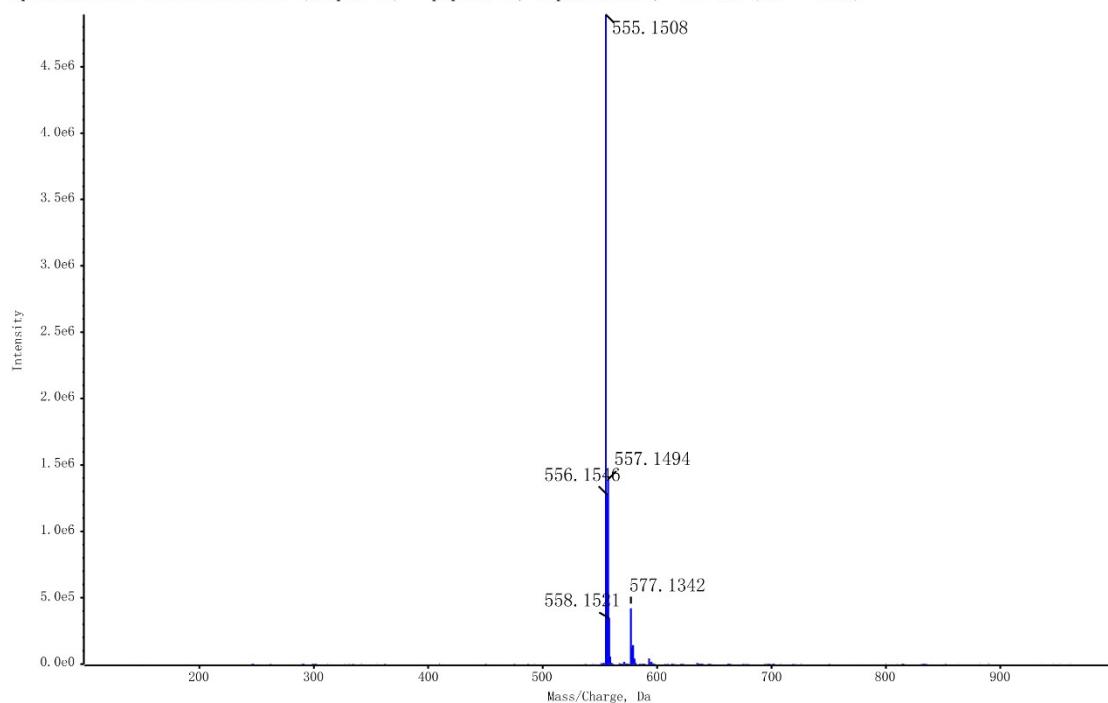
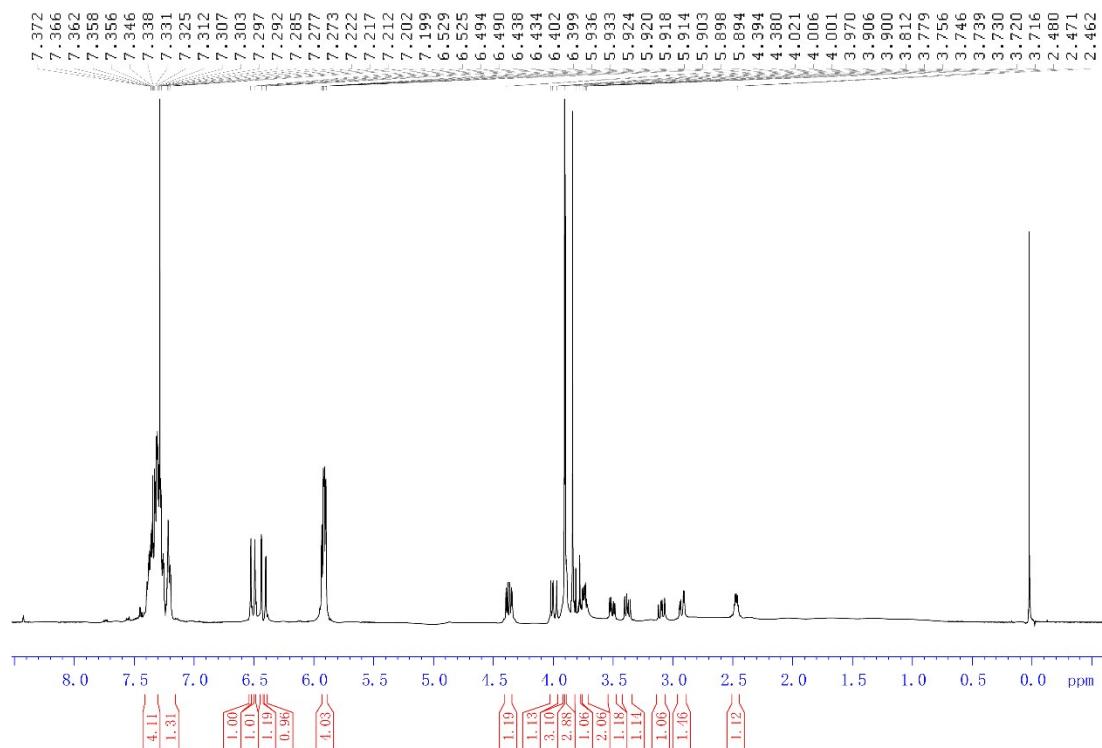
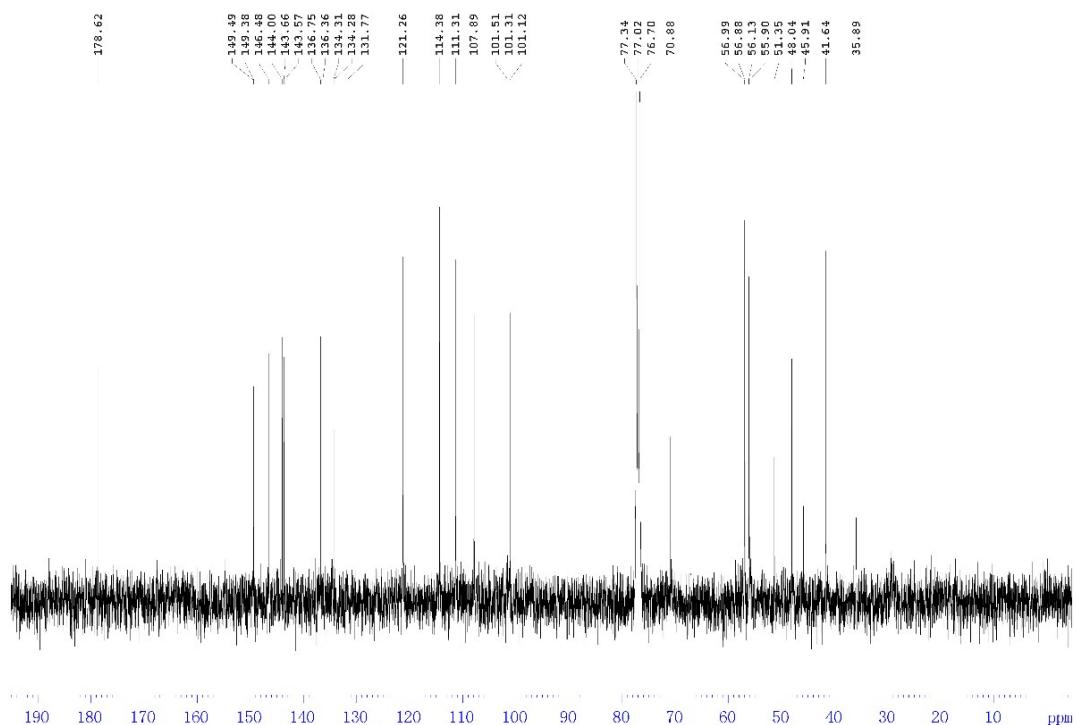


Figure S13. ^1H -NMR (13-a), ^{13}C -NMR (13-b) and HR-ESI-MS (13-c) spectra of compound 14

14-a



14-b



14-c

Spectrum from DataSET16.wiff (sample 14) - pepAME-14, Experiment 1, +TOF MS (100 - 1000)

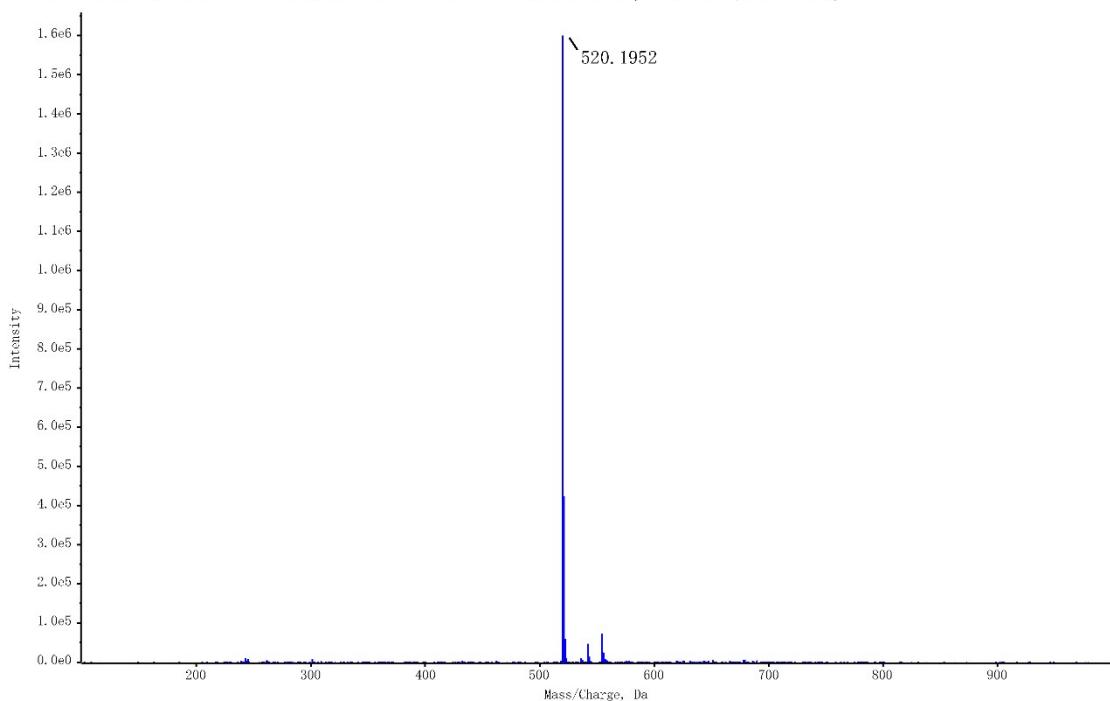
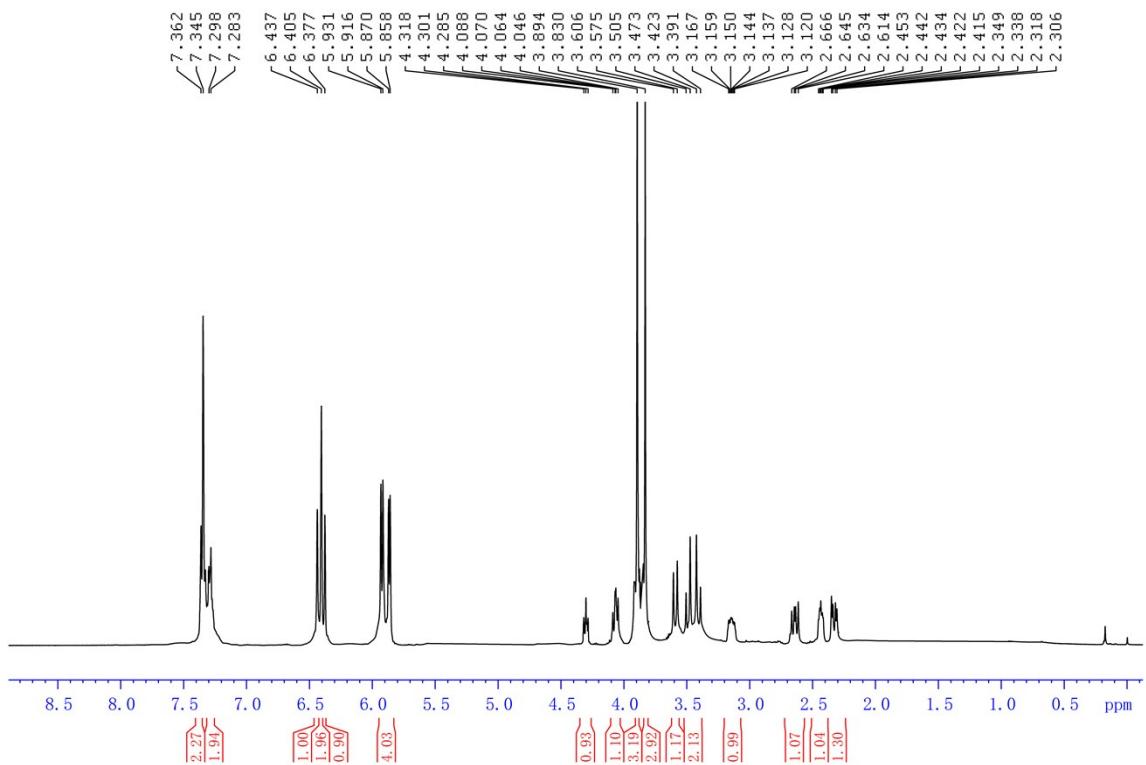
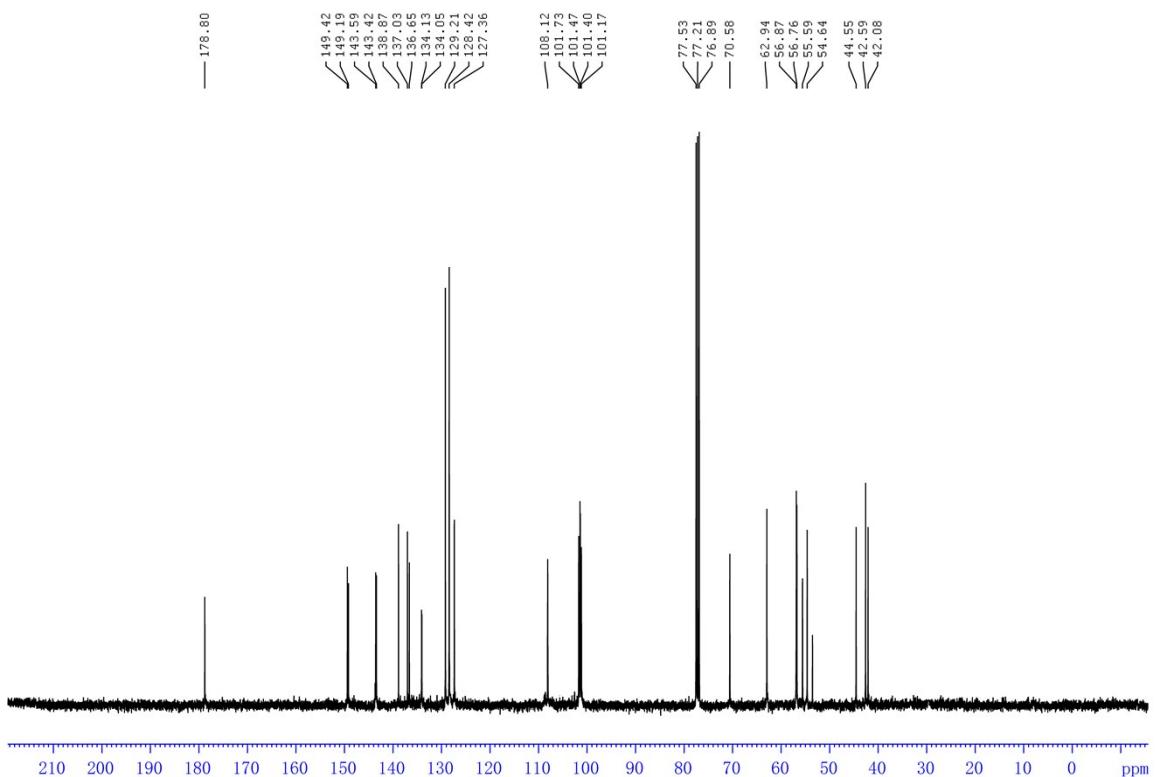


Figure S14. ^1H -NMR (14-a), ^{13}C -NMR (14-b) and HR-ESI-MS (14-c) spectra of compound 15

15-a



15-b



15-c

Spectrum from DataSET121.wiff (sample 1) - Sample003, Experiment 1, +TOF MS (50 - 1500)

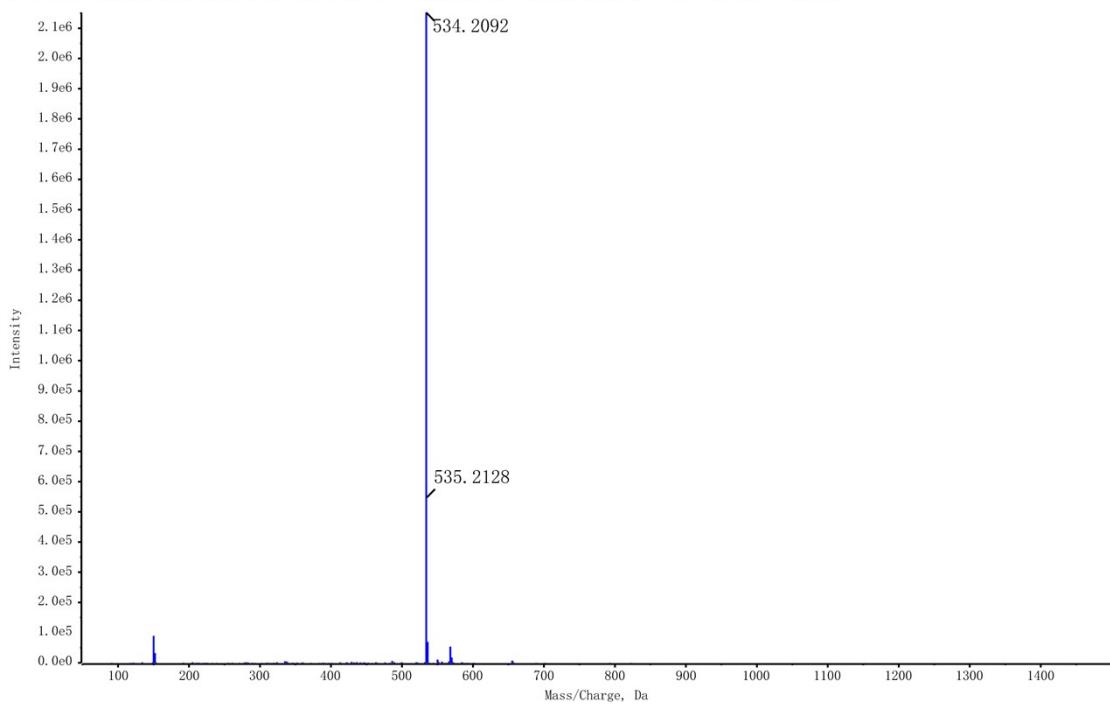
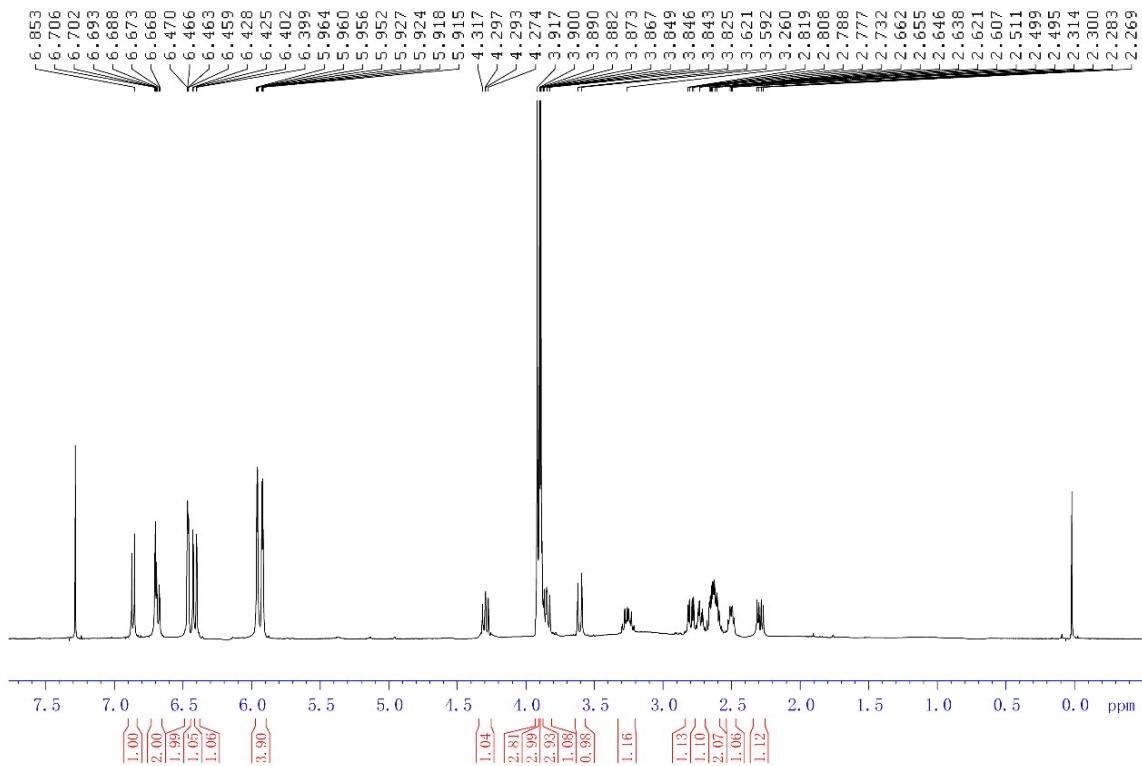
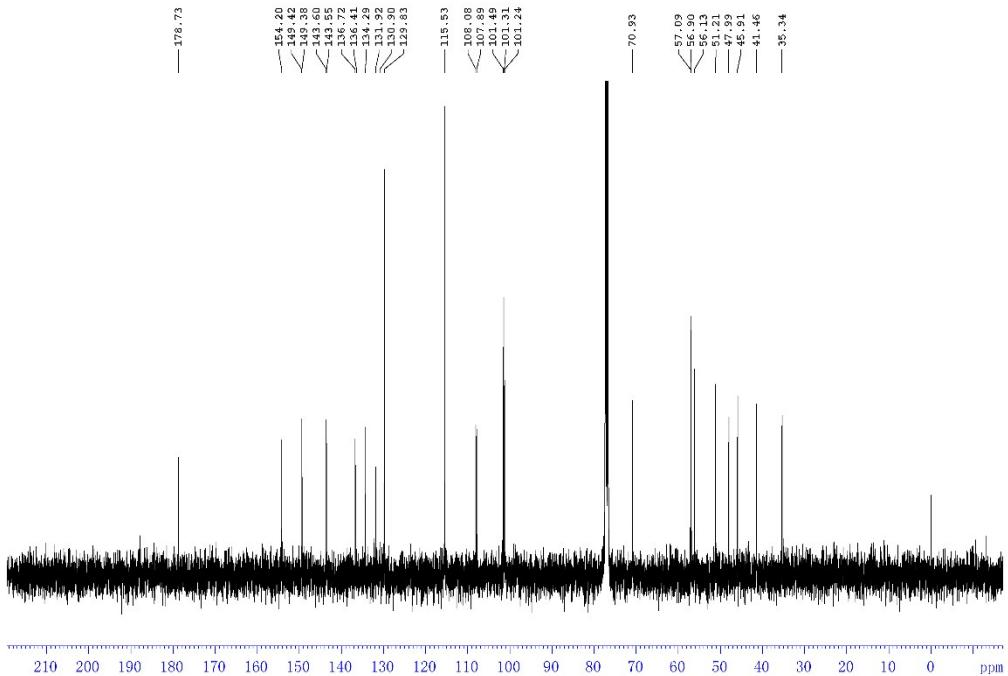


Figure S15. ^1H -NMR (15-a), ^{13}C -NMR (15-b) and HR-ESI-MS (15-c) spectra of compound 16

16-a



16-b



16-c

Spectrum from DataSET19.wiff (sample 16) – pepAME-16, Experiment 1, +TOF MS (100 – 1000)

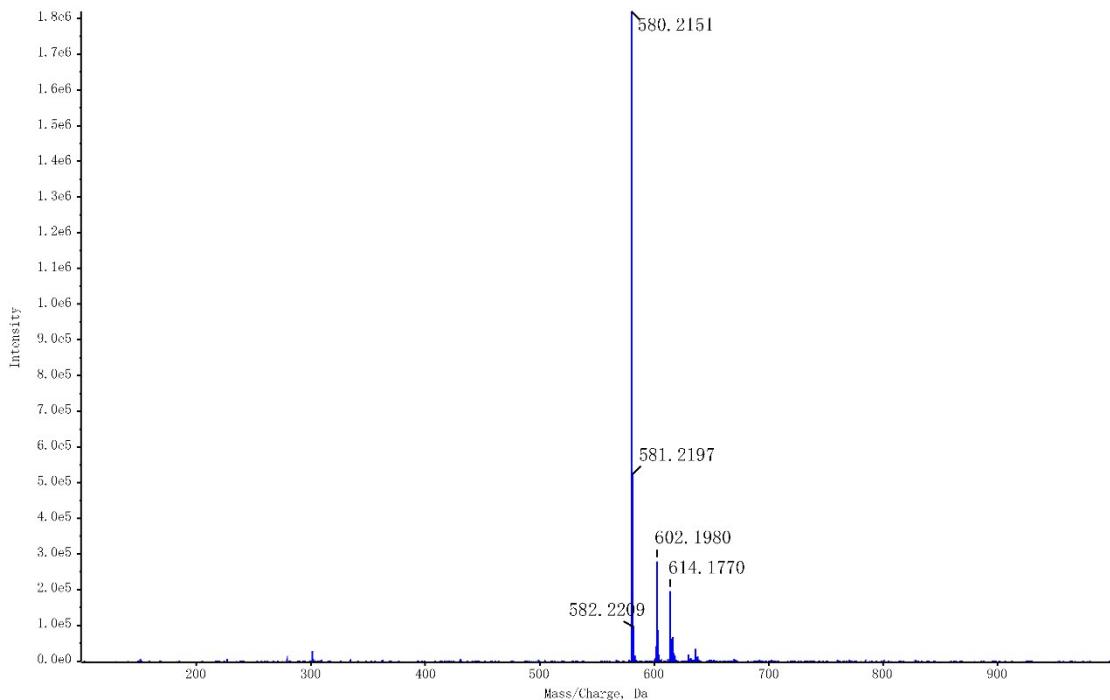
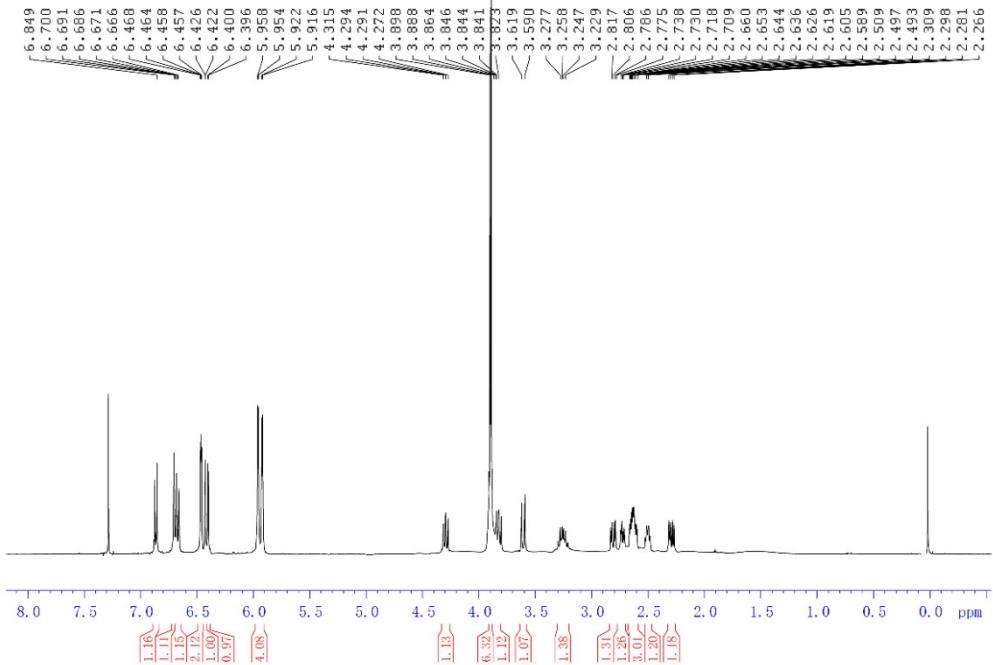
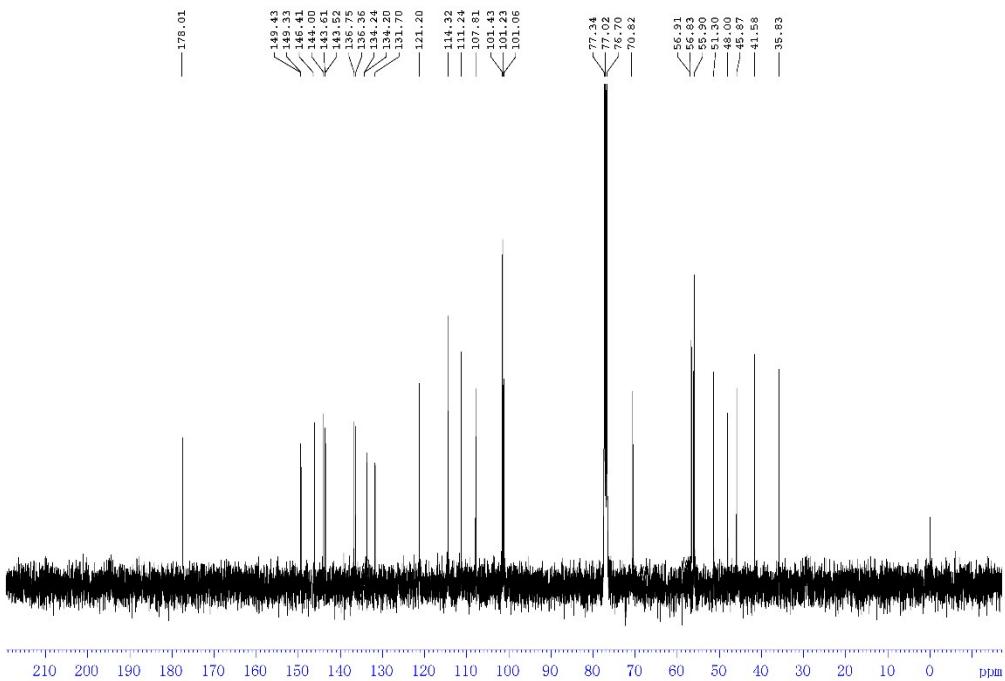


Figure S16. ¹H-NMR (16-a), ¹³C-NMR (16-b) and HR-ESI-MS (16-c) spectra of compound 17

17-a



17-b



17-c

Spectrum from DataSET114.wiff (sample 17) - pepAME-17, Experiment 1, +TOF MS (100 - 1000)

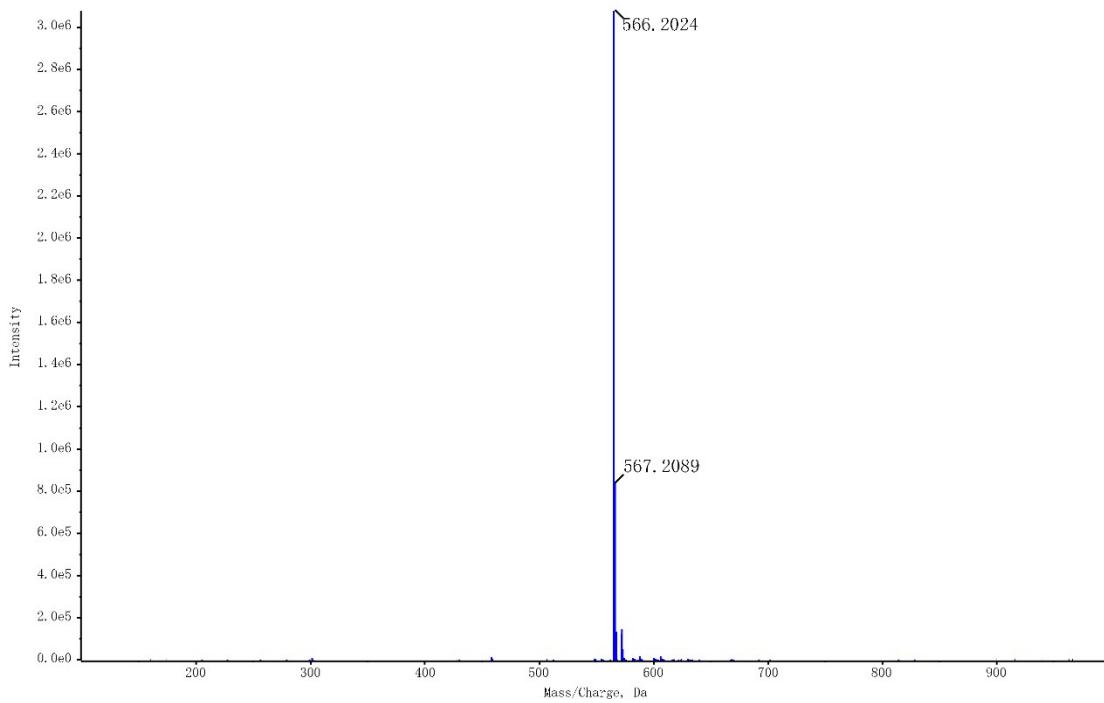
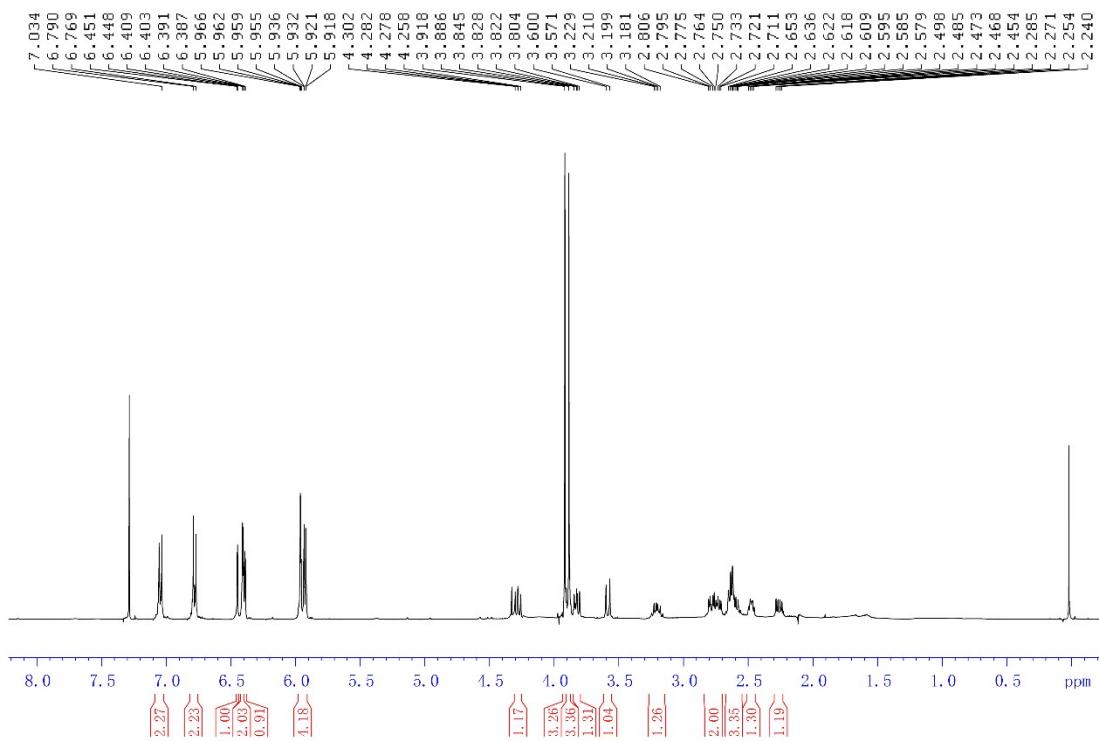
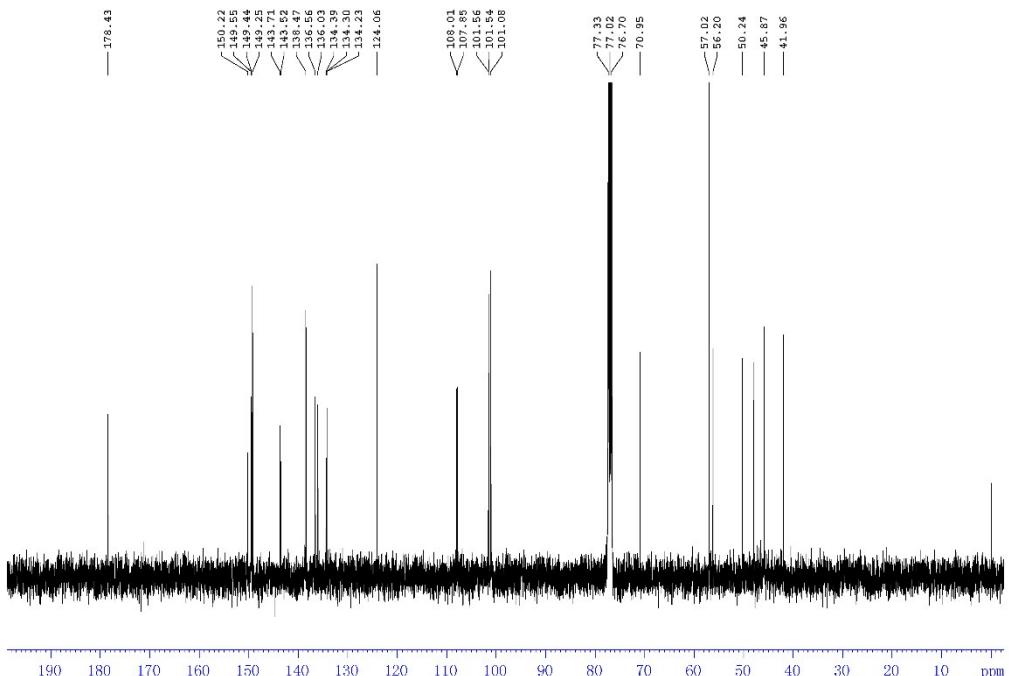


Figure S17. ^1H -NMR (17-a), ^{13}C -NMR (17-b) and HR-ESI-MS (17-c) spectra of compound 18

18-a



18-b



18-c

Spectrum from DataSET114.wiff (sample 18) - pepAME-18, Experiment 1, +TOF MS (100 - 1000)

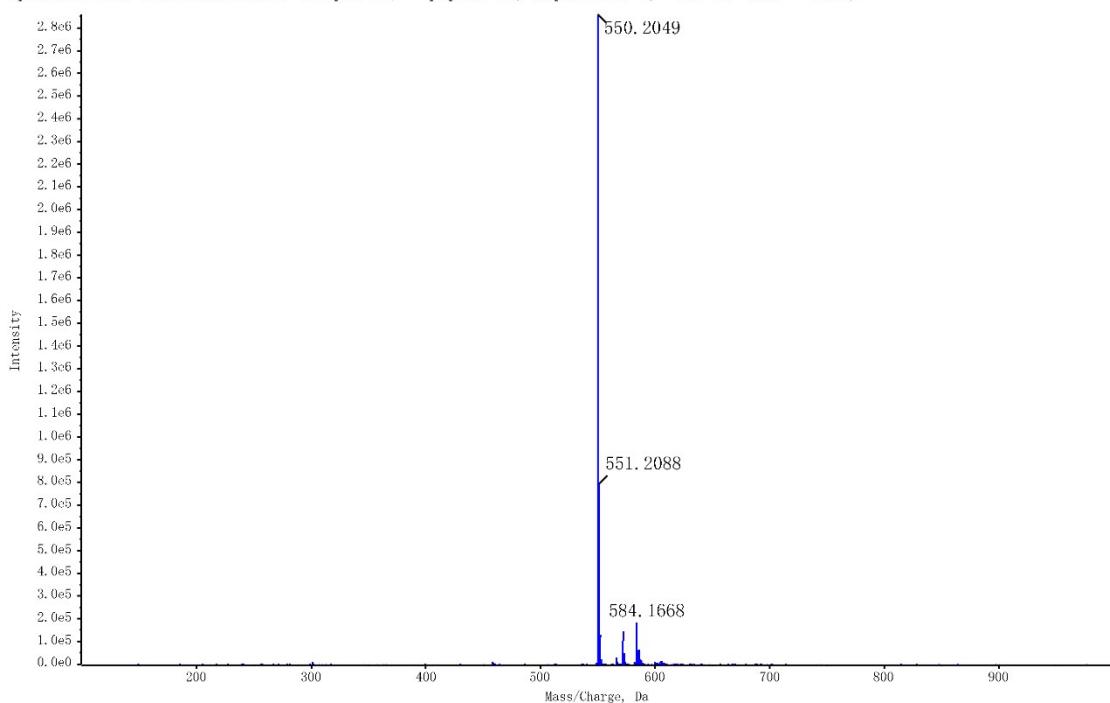


Figure S18. ¹H-NMR (18-a), ¹³C-NMR (18-b) and HR-ESI-MS (18-c) spectra of compound 19

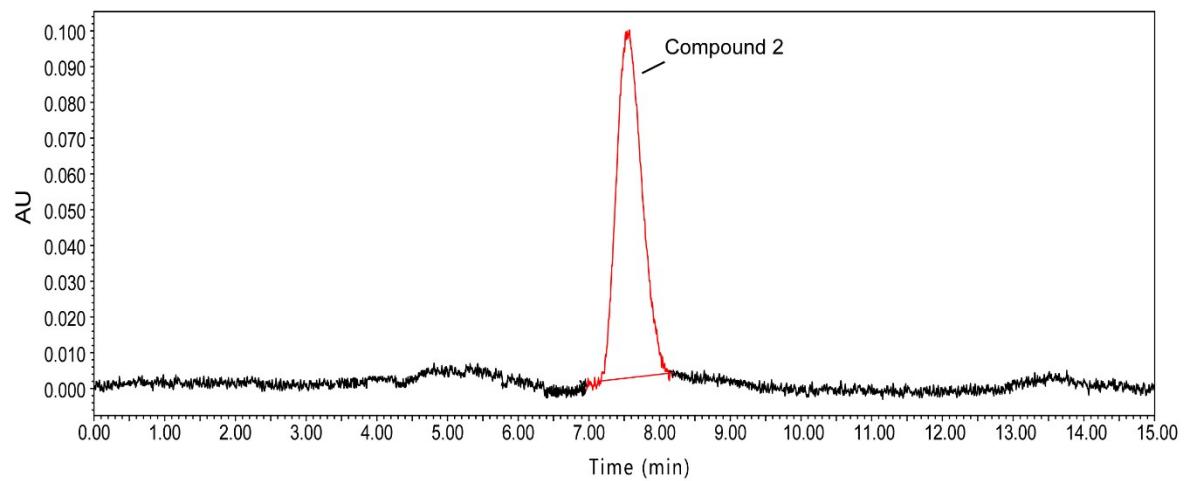


Figure S19. Purity test of compound 2 by HPLC ($\lambda=210$ nm)

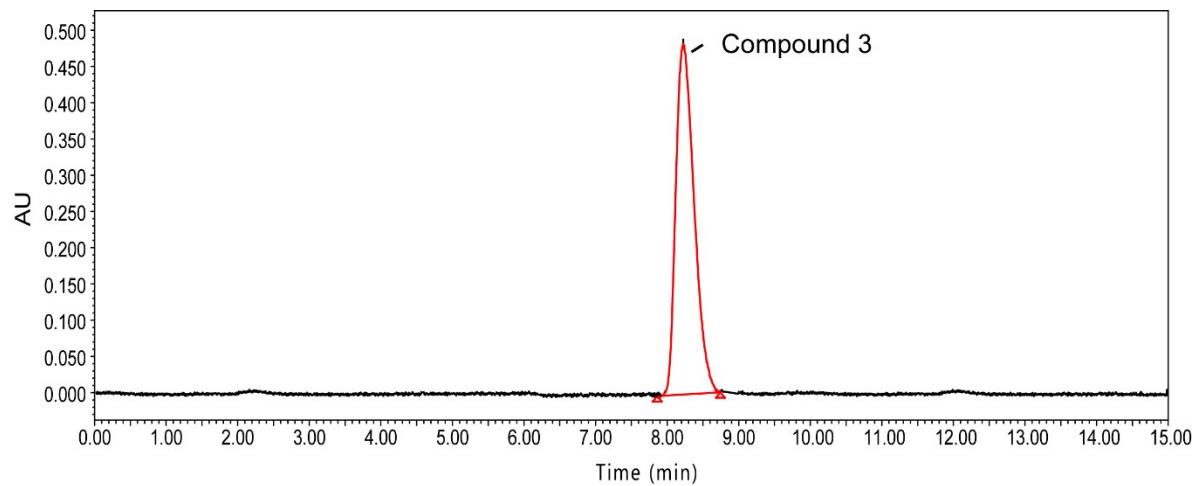


Figure S20. Purity test of compound 3 by HPLC ($\lambda=210$ nm)

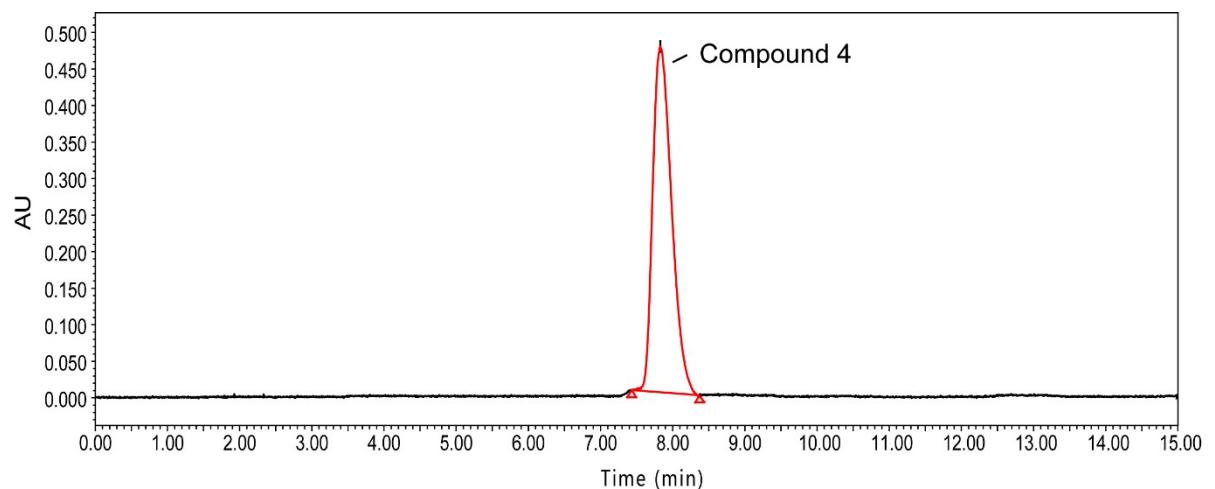


Figure S21. Purity test of compound 4 by HPLC ($\lambda=210$ nm)

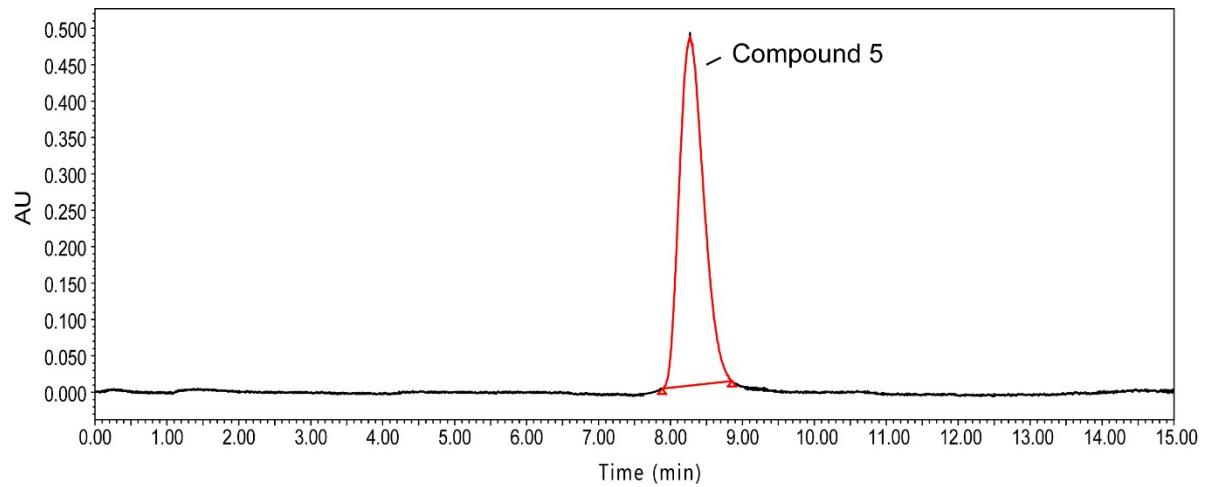


Figure S22. Purity test of compound 5 by HPLC ($\lambda=210$ nm)

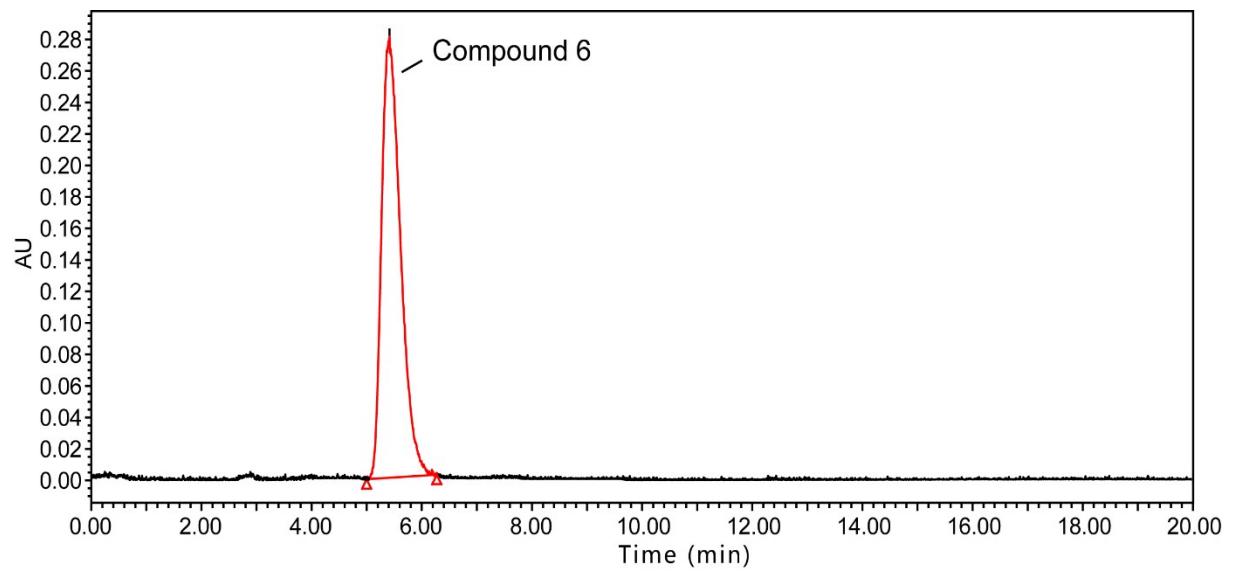


Figure S23. Purity test of compound 6 by HPLC ($\lambda=210$ nm)

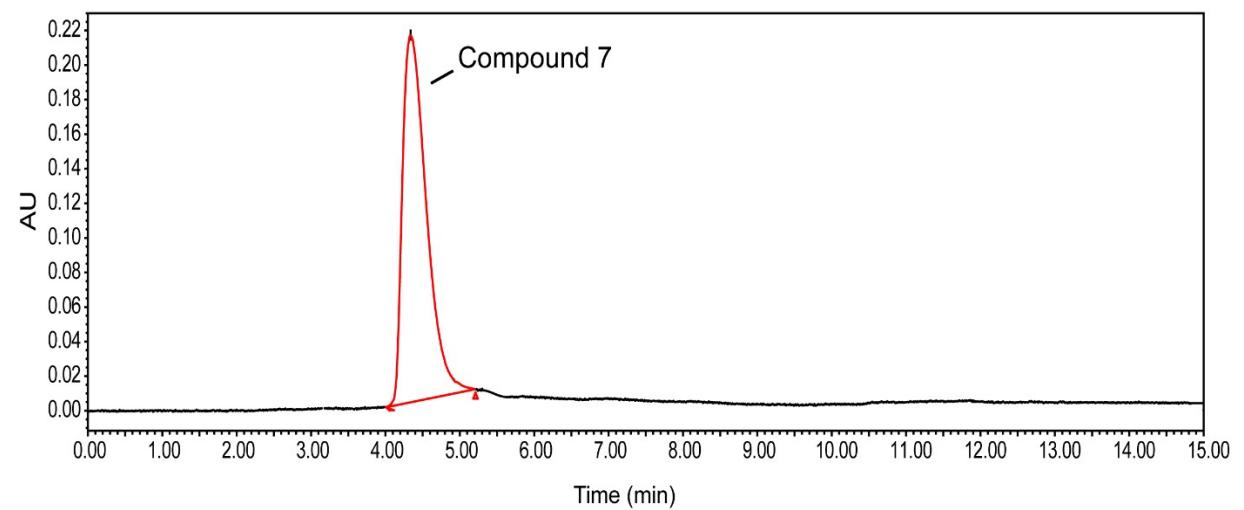


Figure S24. Purity test of compound 7 by HPLC ($\lambda=210$ nm)

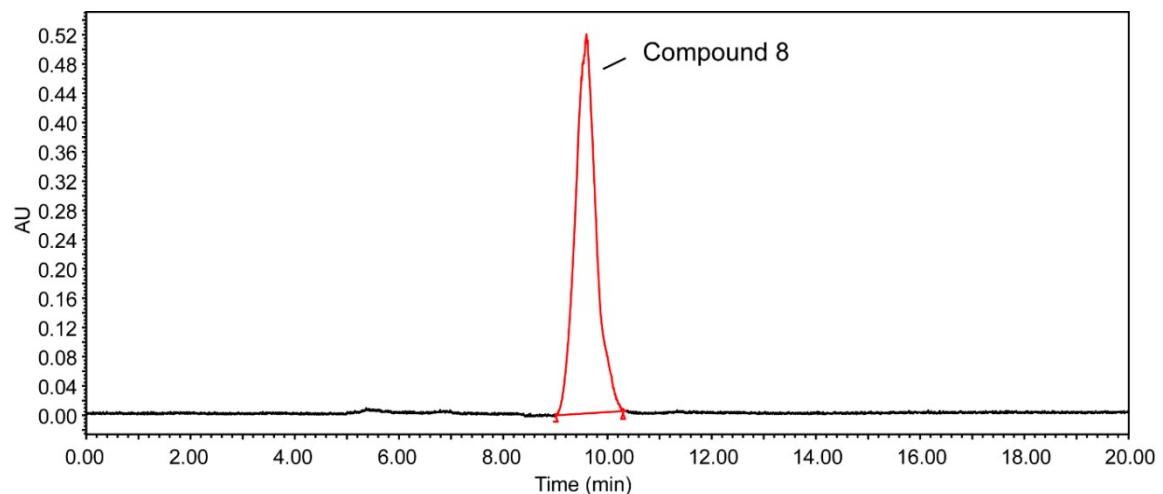


Figure S25. Purity test of compound 8 by HPLC ($\lambda=210$ nm)

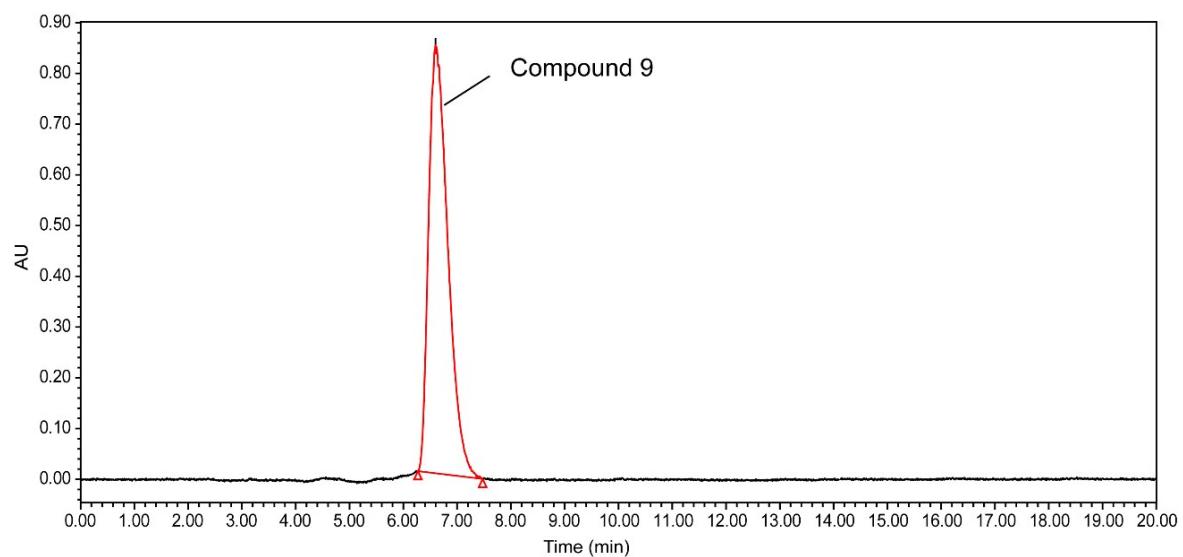


Figure S26. Purity test of compound 9 by HPLC ($\lambda=210$ nm)

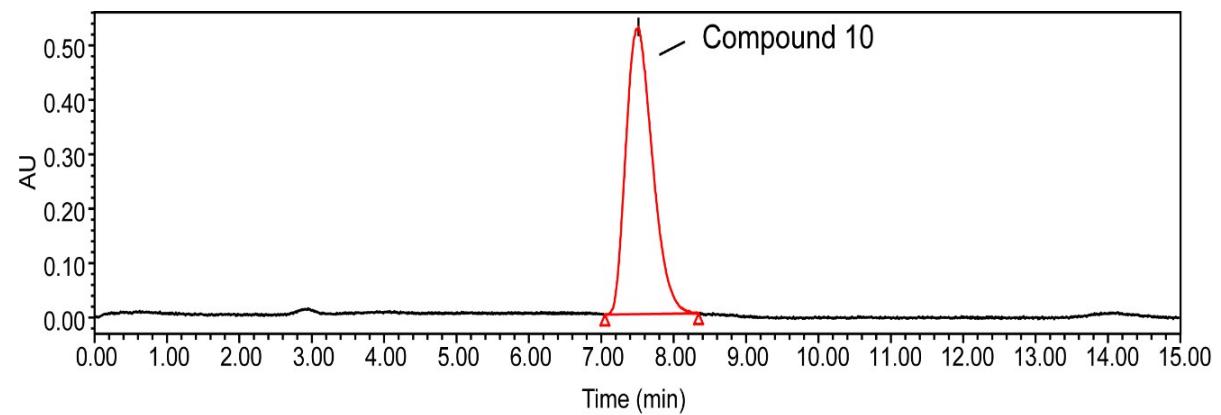


Figure S27. Purity test of compound 10 by HPLC ($\lambda=210$ nm)

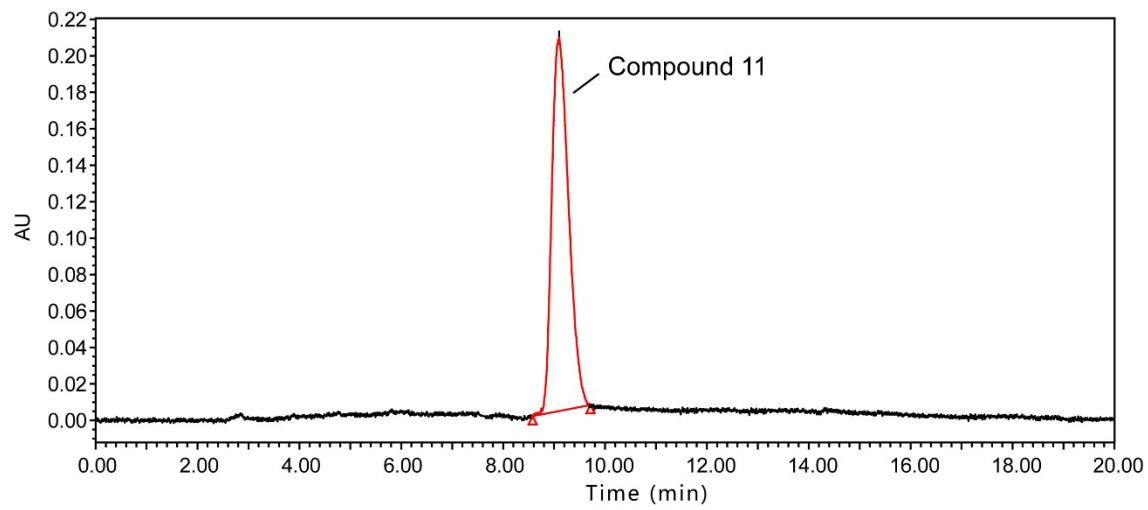


Figure S28. Purity test of compound 11 by HPLC ($\lambda=210$ nm)

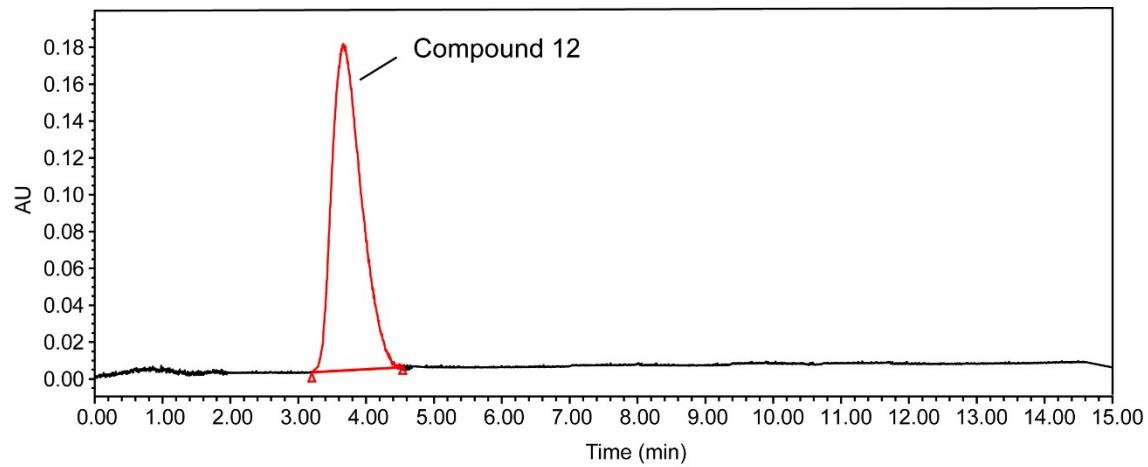


Figure S29. Purity test of compound 12 by HPLC ($\lambda=210$ nm)

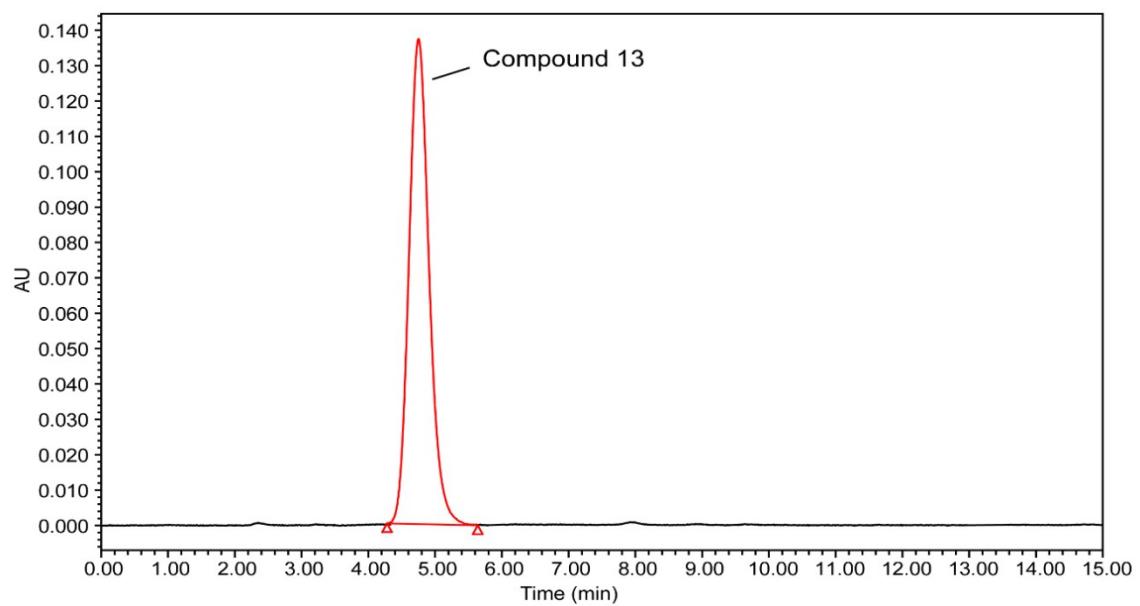


Figure S30. Purity test of compound 13 by HPLC ($\lambda=210$ nm)

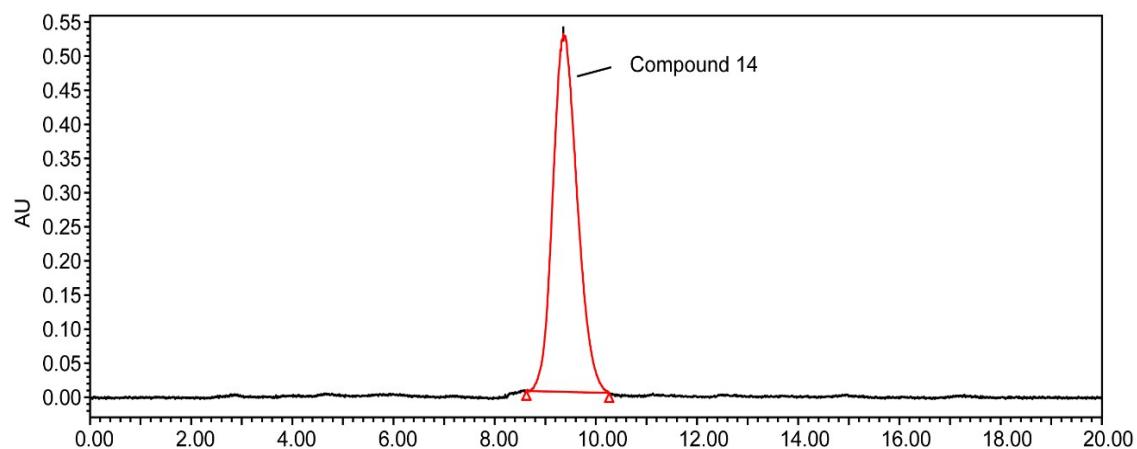


Figure S31. Purity test of compound 14 by HPLC ($\lambda=210$ nm)

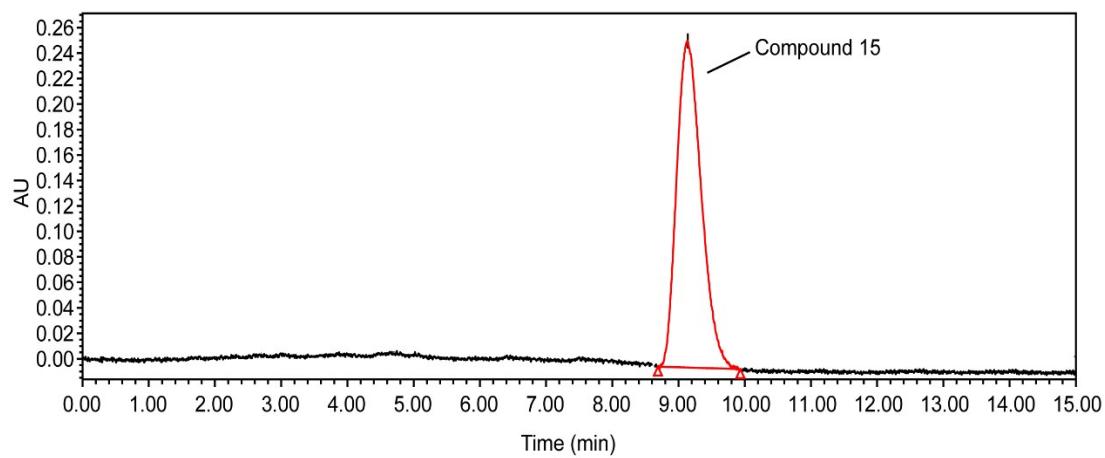


Figure S32. Purity test of compound 15 by HPLC ($\lambda=210$ nm)

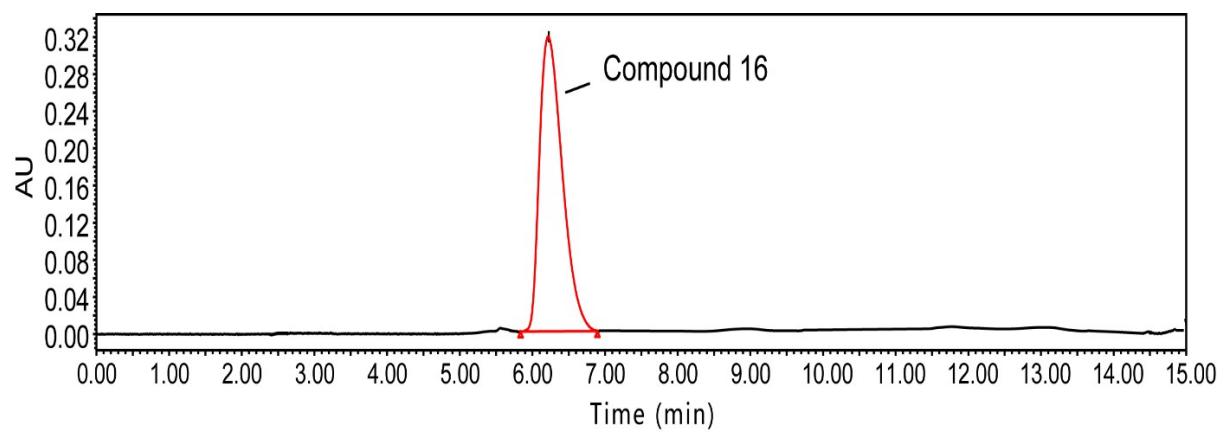


Figure S33. Purity test of compound 16 by HPLC ($\lambda=210$ nm)

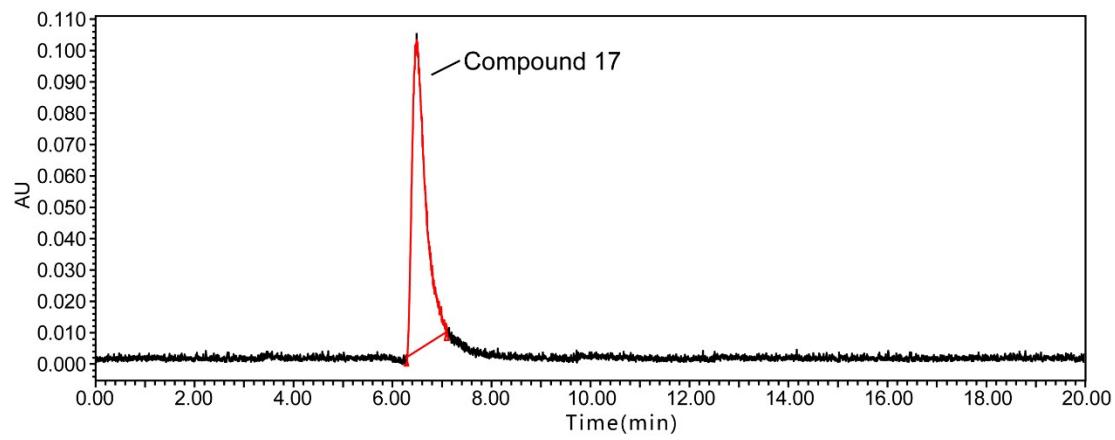


Figure S34. Purity test of compound 17 by HPLC ($\lambda=210$ nm)

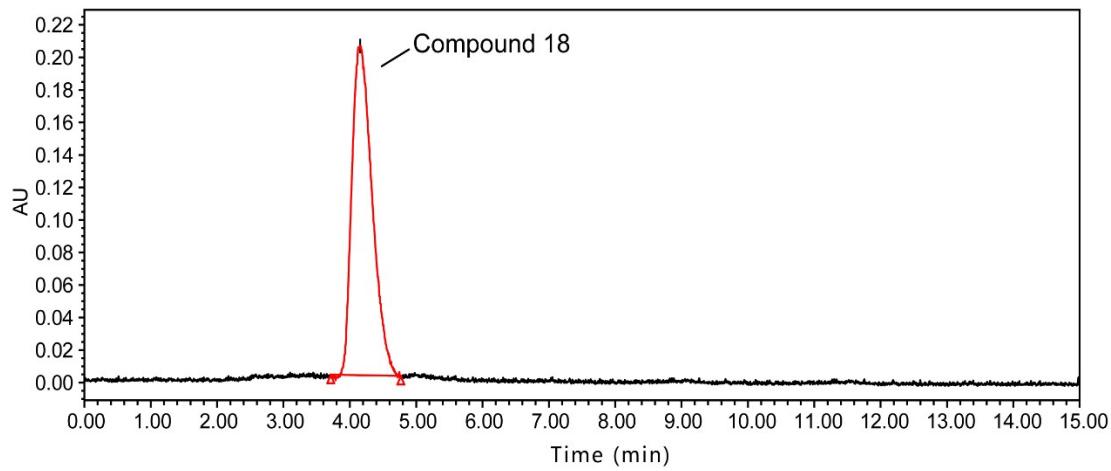


Figure S35. Purity test of compound 18 by HPLC ($\lambda=210$ nm)

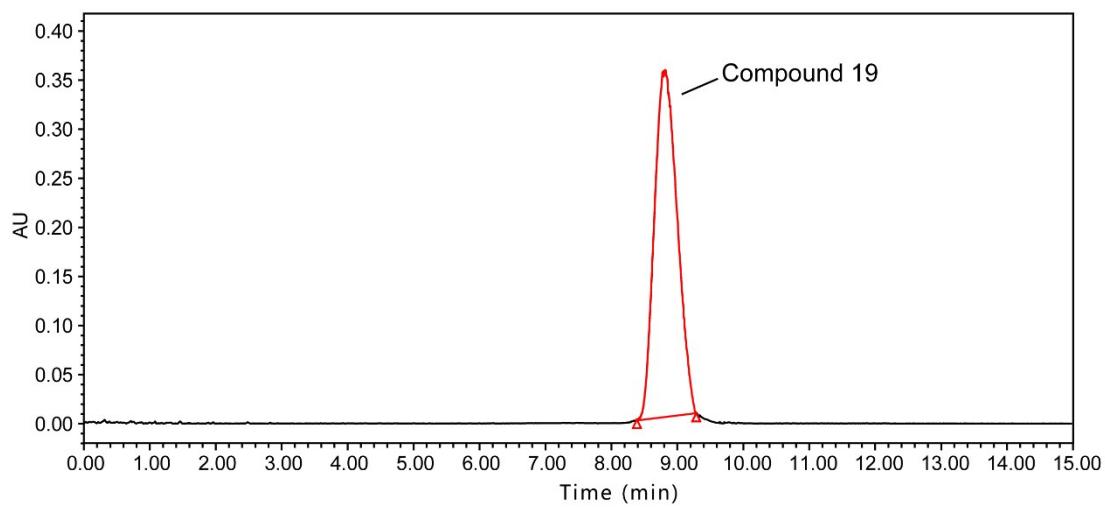


Figure S36. Purity test of compound 19 by HPLC ($\lambda=210$ nm)

Supplementary Information I (Tables)

Table S1.Energies of the dominative conformers of **6** at MMFF94 force field.

Configuration	Conformer	Energy (kcal/mol)	Population (%)
a	1	110.44	67.51
	2	111.18	19.18
	3	111.77	7.16
	4	112.40	2.47
b	1	98.01	82.94
	2	99.53	6.35
	3	99.67	5.07

Table S2. Energies of the conformers of **6** at B3LYP/6-311G** in methanol.

Configuration	Conformation	Structure	E (Hartree)	E (kcal/mol)	Population (%)
			-1702.250555	-1068178.34	96.57
	1				
	2		-1702.246519	-1068175.81	1.34
a	3		-1702.243212	-1068173.73	0.04
	4		-1702.246924	-1068176.06	2.05
			-1702.254118	-1068180.58	5.54
b	1				
	2		-1702.254164	-1068180.61	5.82

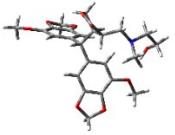
		-1702.256079	-1068181.81	44.32
3				

Table S3. the parameters of σ and UV-shift for each configuration of **6**

Configuration	UV-shift value (nm)	σ - shift value (eV)
a	0.36	10
b	0.36	-1