

## Supporting Information

**Hong-Jian Zhang, Yang-Mei Zhang, Jian-Guang Luo, Jun Luo\* and  
Ling-Yi Kong\***

State Key Laboratory of Natural Medicines, Department of Natural Medicinal Chemistry, China  
Pharmaceutical University, 24 Tong Jia Xiang, Nanjing 210009, People's Republic of China  
Tel /Fax: +86-25-83271405  
Email: luojun1981ly@163.com; cpu\_lykong@126.com

**Table S1**  $^1\text{H}$  NMR Spectroscopic Data (500 MHz,  $\text{CDCl}_3$ ) for Compounds **9-14** ( $\delta_{\text{H}}$  in ppm,  $J$  in Hz)

**Table S2**  $^{13}\text{C}$  NMR Spectroscopic Data (125 MHz,  $\text{CDCl}_3$ ) for Compounds **9, 11** and **13**

**Fig. S1** CD spectra of **9-14**.

**Scheme S1** Plausible biosynthetic pathway for **1-18**

- S1.  $^1\text{H}$  NMR spectrum of compound aphanamene C (**1**) in  $\text{CDCl}_3$
- S2.  $^{13}\text{C}$  NMR spectrum of compound aphanamene C (**1**) in  $\text{CDCl}_3$
- S3.  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of compound aphanamene C (**1**) in  $\text{CDCl}_3$
- S4. HSQC spectrum of compound aphanamene C (**1**) in  $\text{CDCl}_3$
- S5. HMBC spectrum of compound aphanamene C (**1**) in  $\text{CDCl}_3$
- S6. ROESY spectrum of compound aphanamene C (**1**) in  $\text{CDCl}_3$
- S7. CD spectrum of compound aphanamene C (**1**) in  $\text{CH}_3\text{OH}$
- S8. HRESIMS spectrum of compound aphanamene C (**1**) in  $\text{CH}_3\text{OH}$
- S9.  $^1\text{H}$  NMR spectrum of compound aphanamene D (**2**) in  $\text{CDCl}_3$
- S10.  $^{13}\text{C}$  NMR spectrum of compound aphanamene D (**2**) in  $\text{CDCl}_3$
- S11. HSQC spectrum of compound aphanamene D (**2**) in  $\text{CDCl}_3$
- S12. HMBC spectrum of compound aphanamene D (**2**) in  $\text{CDCl}_3$
- S13. ROESY spectrum of compound aphanamene D (**2**) in  $\text{CDCl}_3$
- S14. CD spectrum of compound aphanamene D (**2**) in  $\text{CH}_3\text{OH}$
- S15.  $^1\text{H}$  NMR spectrum of compound aphanamene E (**3**) in  $\text{CDCl}_3$
- S16.  $^{13}\text{C}$  NMR spectrum of compound aphanamene E (**3**) in  $\text{CDCl}_3$
- S17.  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of compound aphanamene E (**3**) in  $\text{CDCl}_3$
- S18. HSQC spectrum of compound aphanamene E (**3**) in  $\text{CDCl}_3$
- S19. HMBC spectrum of compound aphanamene E (**3**) in  $\text{CDCl}_3$
- S20. ROESY spectrum of compound aphanamene E (**3**) in  $\text{CDCl}_3$
- S21. CD spectrum of compound aphanamene E (**3**) in  $\text{CH}_3\text{OH}$
- S22. HRESIMS spectrum of compound aphanamene E (**3**) in  $\text{CH}_3\text{OH}$
- S23.  $^1\text{H}$  NMR spectrum of compound aphanamene F (**4**) in  $\text{CDCl}_3$
- S24. ROESY spectrum of compound aphanamene F (**4**) in  $\text{CDCl}_3$
- S25. CD spectrum of compound aphanamene F (**4**) in  $\text{CH}_3\text{OH}$
- S26.  $^1\text{H}$  NMR spectrum of compound aphanamene G (**5**) in  $\text{CDCl}_3$
- S27.  $^{13}\text{C}$  NMR spectrum of compound aphanamene G (**5**) in  $\text{CDCl}_3$
- S28. HSQC spectrum of compound aphanamene G (**5**) in  $\text{CDCl}_3$
- S29. HMBC spectrum of compound aphanamene G (**5**) in  $\text{CDCl}_3$
- S30. ROESY spectrum of compound aphanamene G (**5**) in  $\text{CDCl}_3$
- S31. CD spectrum of compound aphanamene G (**5**) in  $\text{CH}_3\text{OH}$
- S32. HRESIMS spectrum of compound aphanamene G (**5**) in  $\text{CH}_3\text{OH}$
- S33.  $^1\text{H}$  NMR spectrum of compound aphanamene H (**6**) in  $\text{CDCl}_3$
- S34. ROESY spectrum of compound aphanamene H (**6**) in  $\text{CDCl}_3$
- S35. CD spectrum of compound aphanamene H (**6**) in  $\text{CH}_3\text{OH}$
- S36.  $^1\text{H}$  NMR spectrum of compound aphanamene I (**7**) in  $\text{CDCl}_3$
- S37.  $^{13}\text{C}$  NMR spectrum of compound aphanamene I (**7**) in  $\text{CDCl}_3$
- S38. HSQC spectrum of compound aphanamene I (**7**) in  $\text{CDCl}_3$
- S39. HMBC spectrum of compound aphanamene I (**7**) in  $\text{CDCl}_3$

- S40. ROESY spectrum of compound aphanamene I (**7**) in CDCl<sub>3</sub>  
S41. CD spectrum of compound aphanamene I (**7**) in CH<sub>3</sub>OH  
S42. HRESIMS spectrum of compound aphanamene I (**7**) in CH<sub>3</sub>OH  
S43. <sup>1</sup>H NMR spectrum of compound aphanamene J (**8**) in CDCl<sub>3</sub>  
S44. ROESY spectrum of compound aphanamene J (**8**) in CDCl<sub>3</sub>  
S45. CD spectrum of compound aphanamene J (**8**) in CH<sub>3</sub>OH  
S46. <sup>1</sup>H NMR spectrum of compound aphanamene K (**9**) in CDCl<sub>3</sub>  
S47. <sup>13</sup>C NMR spectrum of compound aphanamene K (**9**) in CDCl<sub>3</sub>  
S48. HSQC spectrum of compound aphanamene K (**9**) in CDCl<sub>3</sub>  
S49. HMBC spectrum of compound aphanamene K (**9**) in CDCl<sub>3</sub>  
S50. ROESY spectrum of compound aphanamene K (**9**) in CDCl<sub>3</sub>  
S51. CD spectrum of compound aphanamene K (**9**) in CH<sub>3</sub>OH  
S52. HRESIMS spectrum of compound aphanamene K (**9**) in CH<sub>3</sub>OH  
S53. <sup>1</sup>H NMR spectrum of compound aphanamene L (**10**) in CDCl<sub>3</sub>  
S54. ROESY spectrum of compound aphanamene L (**10**) in CDCl<sub>3</sub>  
S55. CD spectrum of compound aphanamene L (**10**) in CH<sub>3</sub>OH  
S56. <sup>1</sup>H NMR spectrum of compound aphanamene M (**11**) in CDCl<sub>3</sub>  
S57. <sup>13</sup>C NMR spectrum of compound aphanamene M (**11**) in CDCl<sub>3</sub>  
S58. HSQC spectrum of compound aphanamene M (**11**) in CDCl<sub>3</sub>  
S59. HMBC spectrum of compound aphanamene M (**11**) in CDCl<sub>3</sub>  
S60. ROESY spectrum of compound aphanamene M (**11**) in CDCl<sub>3</sub>  
S61. CD spectrum of compound aphanamene M (**11**) in CH<sub>3</sub>OH  
S62. HRESIMS spectrum of compound aphanamene M (**11**) in CH<sub>3</sub>OH  
S63. <sup>1</sup>H NMR spectrum of compound aphanamene N (**12**) in CDCl<sub>3</sub>  
S64. ROESY spectrum of compound aphanamene N (**12**) in CDCl<sub>3</sub>  
S65. CD spectrum of compound aphanamene N (**12**) in CH<sub>3</sub>OH  
S66. <sup>1</sup>H NMR spectrum of compound aphanamene O (**13**) in CDCl<sub>3</sub>  
S67. <sup>13</sup>C NMR spectrum of compound aphanamene O (**13**) in CDCl<sub>3</sub>  
S68. HSQC spectrum of compound aphanamene O (**13**) in CDCl<sub>3</sub>  
S69. HMBC spectrum of compound aphanamene O (**13**) in CDCl<sub>3</sub>  
S70. ROESY spectrum of compound aphanamene O (**13**) in CDCl<sub>3</sub>  
S71. CD spectrum of compound aphanamene O (**13**) in CH<sub>3</sub>OH  
S72. HRESIMS spectrum of compound aphanamene O (**13**) in CH<sub>3</sub>OH  
S73. <sup>1</sup>H NMR spectrum of compound aphanamene P (**14**) in CDCl<sub>3</sub>  
S74. ROESY spectrum of compound aphanamene P (**14**) in CDCl<sub>3</sub>  
S75. CD spectrum of compound aphanamene P (**14**) in CH<sub>3</sub>OH

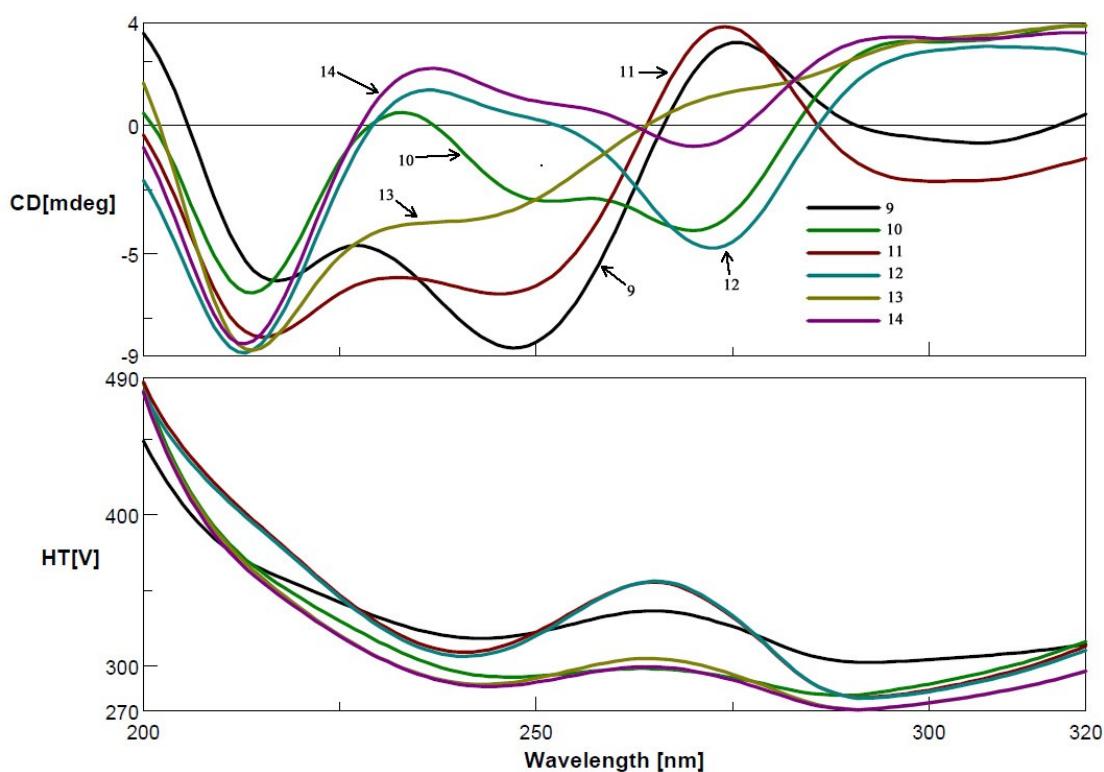
**Table S1**  $^1\text{H}$  NMR Spectroscopic Data (500 MHz,  $\text{CDCl}_3$ ) for Compounds **9–14** ( $\delta_{\text{H}}$  in ppm,  $J$  in Hz)

no.	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
2	5.76, s	5.78, s	5.80, s	5.80, s	5.80, s	5.79, s
4	4.85, t (5.0)	4.87, t (5.0)	4.88, t (5.0)	4.88, t (5.0)	4.87, t (4.5)	4.87, t (5.0)
5	2.62, m <sup>a</sup>	2.65, m	2.68, m	2.68, m	2.68, m	2.67, m
6	5.02, t (7.0)	5.00, t (7.5)	5.06, t (7.5)	5.05, t (7.0)	5.03, t (3.0)	5.05, t (7.0)
8	1.97, m <sup>a</sup>	1.97, m <sup>a</sup>	2.02, m	2.02, m	2.05, m <sup>a</sup>	2.05, m <sup>a</sup>
9	1.54, m <sup>a</sup>	1.54, m <sup>a</sup>	1.54, m	1.54, m	1.68, m <sup>a</sup>	1.68, m <sup>a</sup>
10a	1.83, m <sup>a</sup>	1.83, m <sup>a</sup>	1.83, m	1.81, m	1.98, m <sup>a</sup>	1.98, m <sup>a</sup>
10b	2.01, m <sup>a</sup>	2.01, m <sup>a</sup>	2.01, m	2.05, m	2.32, m <sup>a</sup>	2.32, m <sup>a</sup>
11	2.58, m <sup>a</sup>	2.58, m	2.48, m	2.48, m	2.56, m <sup>a</sup>	2.56, m <sup>a</sup>
16	2.03, s	2.03, s	2.05, s	2.05, s	2.05, s	2.05, s
17	1.58, s	1.58, s	1.64, s	1.64, s	1.65, s	1.65, s
18	1.45, m <sup>a</sup>	1.85, m <sup>a</sup>	1.82, m	1.70, m	1.41, m <sup>a</sup>	1.41, m <sup>a</sup>
18	1.85, m <sup>a</sup>	1.45, m <sup>a</sup>	1.70, m	1.82, m	1.71, m <sup>a</sup>	1.71, m <sup>a</sup>
19	1.37, s					
20	1.37, s	1.37, s	1.37, s	1.37, s	1.36, s	1.36, s
2'	5.82, s	5.82, s	5.80, s	5.80, s	5.80, s	5.80, s
4'a	2.38, dd (11.5, 17.5)	2.38, dd (11.0, 17.5)	2.37, dd (11.5, 17.5)	2.37, dd (11.5, 18.0)	2.37, dd (11.0, 17.5)	2.37, dd (11.5, 18.5)
4'b	2.21, dd (4.0, 17.5)	2.22, dd (4.0, 18.0)	2.21, dd (4.0, 18.0)	2.24, dd (4.0, 18.0)	2.23, dd (4.0, 18.0)	2.21, dd (4.0, 18.0)
5'	5.11, m	5.12, m	5.09, m	5.10, m	5.09, m	5.11, m
6'	5.32, d (7.5)	5.33, d (8.5)	5.27, d (8.5)	5.31, d (8.5)	5.30, d (8.5)	5.28, d (8.5)
8'	2.04, m <sup>a</sup>	2.04, m <sup>a</sup>	2.08, dd (6.0, 14.0)	2.08, dd (6.0, 14.0)	2.05, m <sup>a</sup>	2.08, dd (6.0, 14.0)
9'	1.95, m <sup>a</sup>	1.95, m <sup>a</sup>	1.74, 1.81, m	1.74, 1.81, m	1.96, m <sup>a</sup>	1.74, 1.81, m <sup>a</sup>
10'a	1.61, m <sup>a</sup>	1.61, m <sup>a</sup>	1.89, m <sup>a</sup>	1.89, m <sup>a</sup>	1.80, m <sup>a</sup>	1.89, m <sup>a</sup>
10'b	2.01, m <sup>a</sup>	2.01, m <sup>a</sup>	1.77, m <sup>a</sup>	1.77, m <sup>a</sup>	2.15, m <sup>a</sup>	1.77, m <sup>a</sup>
13'	5.22, s	5.21, s	5.26, s	5.24, s	5.20, s	5.22, s
16'	1.99, s	1.99, s	2.05, s	2.05, s	1.98, s	2.04, s
17'	1.70, s	1.58, s	1.64, s	1.64, s	1.61, s	1.61, s
18'α	2.12, m <sup>a</sup>	1.82, m <sup>a</sup>	1.72, m <sup>a</sup>	1.82, m <sup>a</sup>	2.18, m <sup>a</sup>	1.72, m <sup>a</sup>
18'β	1.82, m <sup>a</sup>	2.12, m <sup>a</sup>	1.82, m <sup>a</sup>	1.72, m <sup>a</sup>	1.67, m <sup>a</sup>	1.82, m <sup>a</sup>
19'	1.36, s	1.36, s	1.35, s	1.36, s	1.36, s	1.36, s
20'	1.34, s	1.34, s	1.32, s	1.32, s	1.34, s	1.35, s

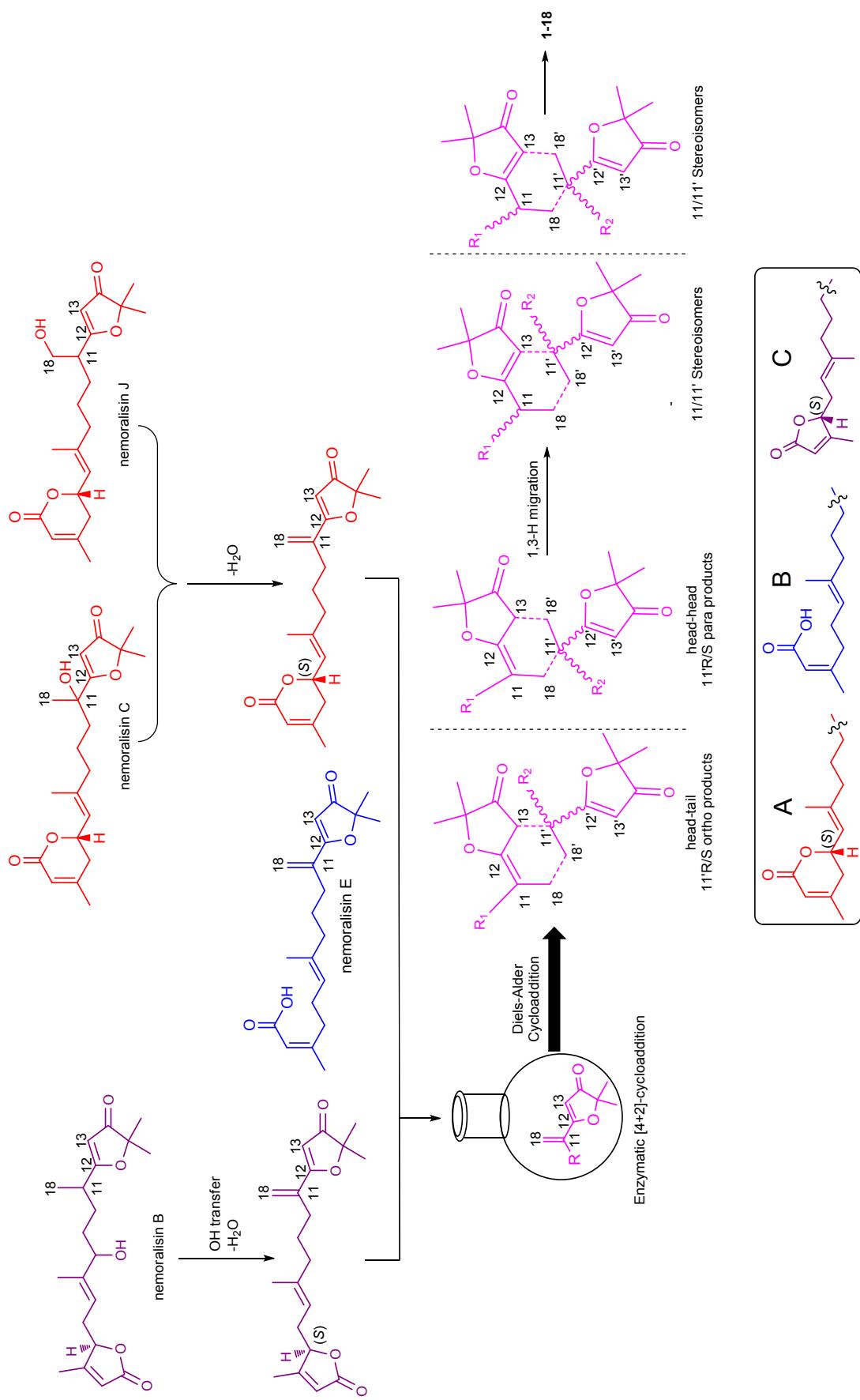
<sup>a</sup>Overlapping signals

**Table S2**  $^{13}\text{C}$  NMR Spectroscopic Data (125 MHz,  $\text{CDCl}_3$ ) for Compounds **9**, **11** and **13**

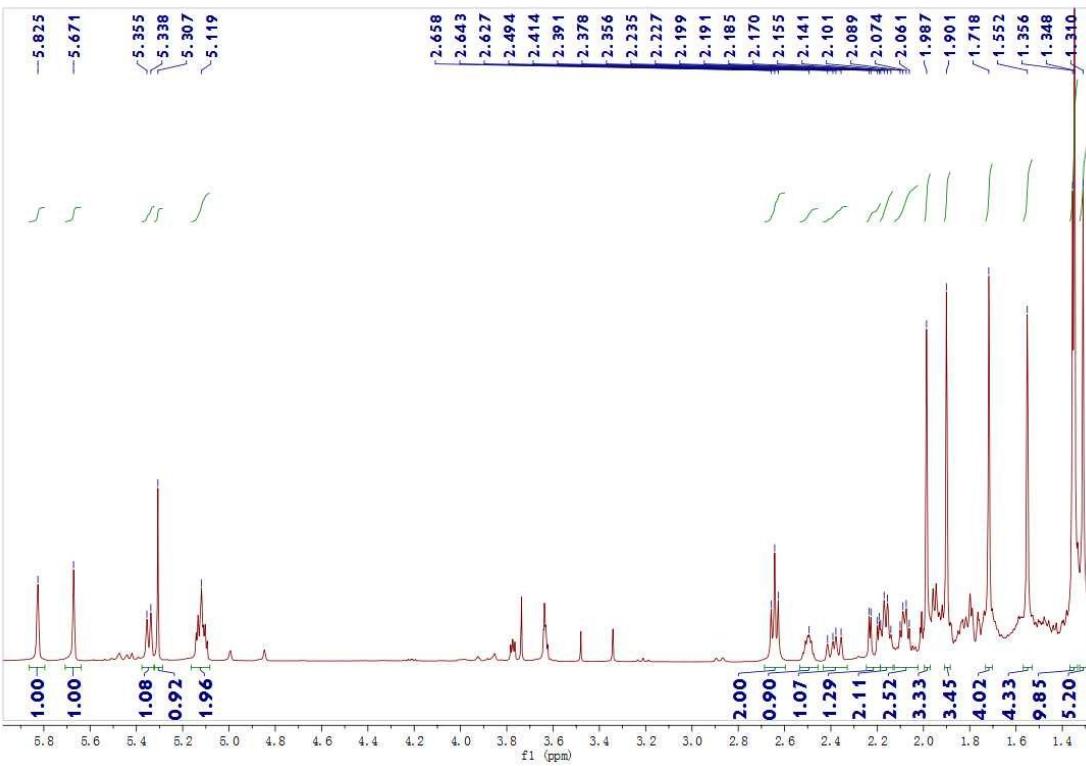
no.	<b>9</b>	<b>11</b>	<b>13</b>	no.	<b>9</b>	<b>11</b>	<b>13</b>
1	172.9	172.9	172.9	1'	165.0	165.1	165.1
2	117.2	116.6	117.3	2'	116.3	116.5	116.4
3	168.0	165.0	167.9	3'	156.7	156.7	156.8
4	84.2	87.5	84.1	4'	35.0	35.0	35.0
5	30.2	30.3	30.2	5'	74.0	74.1	74.1
6	116.6	116.6	116.6	6'	122.3	122.4	122.3
7	139.4	141.7	139.2	7'	141.9	141.9	142.1
8	39.1	39.3	39.1	8'	39.6	39.3	39.4
9	25.0	25.0	25.0	9'	29.6	30.3	29.6
10	31.2	31.3	31.2	10'	29.0	28.5	34.0
11	35.4	35.0	35.4	11'	42.0	41.7	42.0
12	189.6	189.7	189.9	12'	194.9	194.3	194.8
13	111.3	110.9	111.1	13'	101.8	101.5	101.8
14	204.1	203.9	204.1	14'	207.1	207	207.1
15	87.7	87.5	87.7	15'	88.9	88.7	88.9
16	23.1	23.1	23.1	16'	13.8	16.6	13.8
17	16.6	16.7	16.4	17'	16.1	16.7	16.1
18	23.8	22.3	22.3	18'	23.8	23.7	23.8
19	22.8	22.8	22.8	19'	22.7	22.8	22.7
20	22.7	22.7	22.7	20'	22.7	22.8	22.7



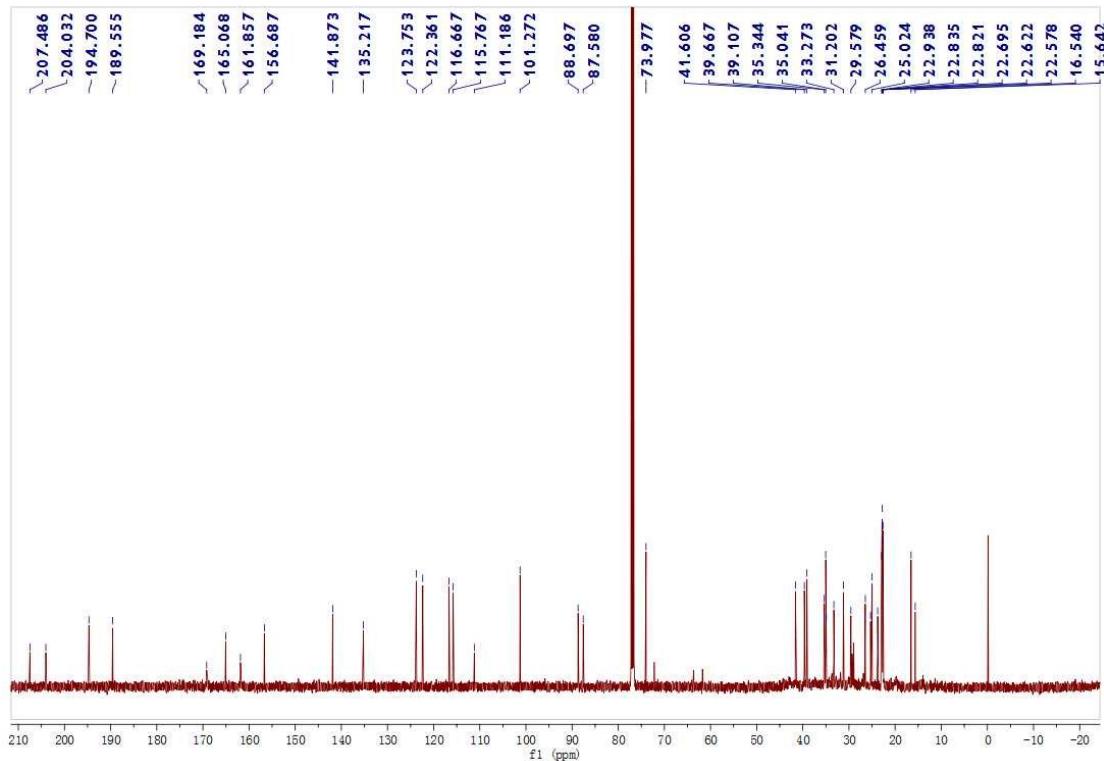
**Fig. S1** CD spectra of **9-14**.



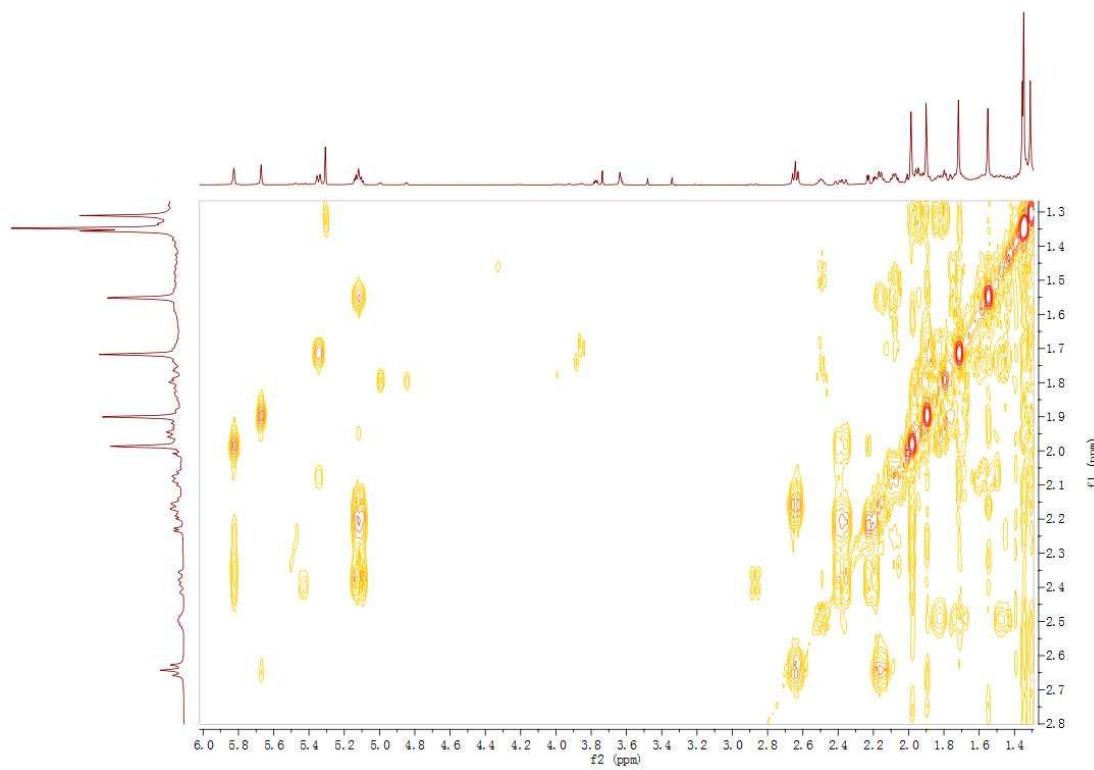
**Scheme S1** Plausible biosynthetic pathway for **1-18**.



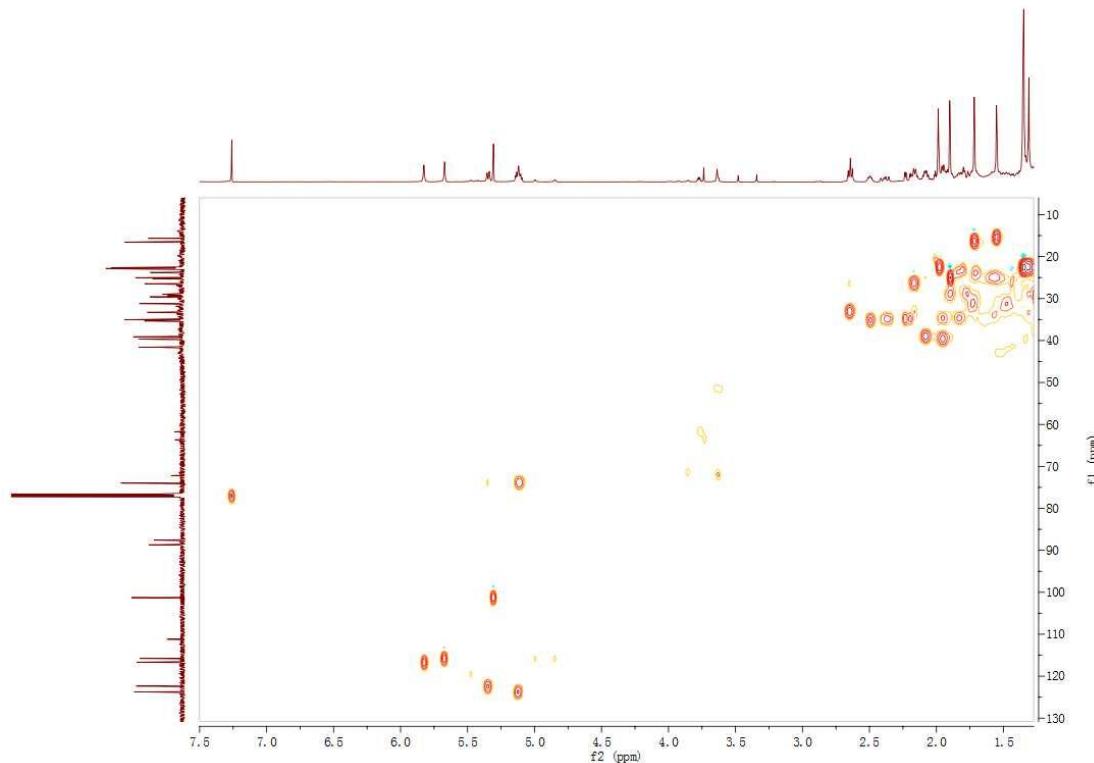
S1.  $^1\text{H}$  NMR spectrum of compound aphanamene C (**1**) in  $\text{CDCl}_3$



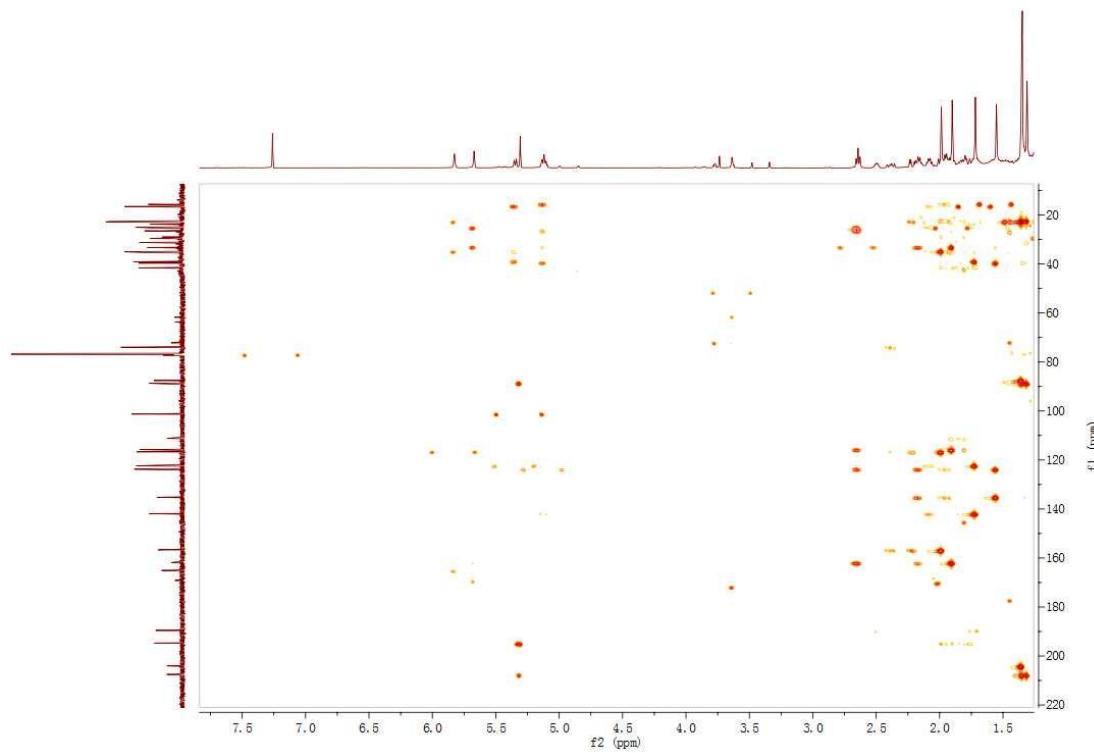
S2.  $^{13}\text{C}$  NMR spectrum of compound aphanamene C (**1**) in  $\text{CDCl}_3$



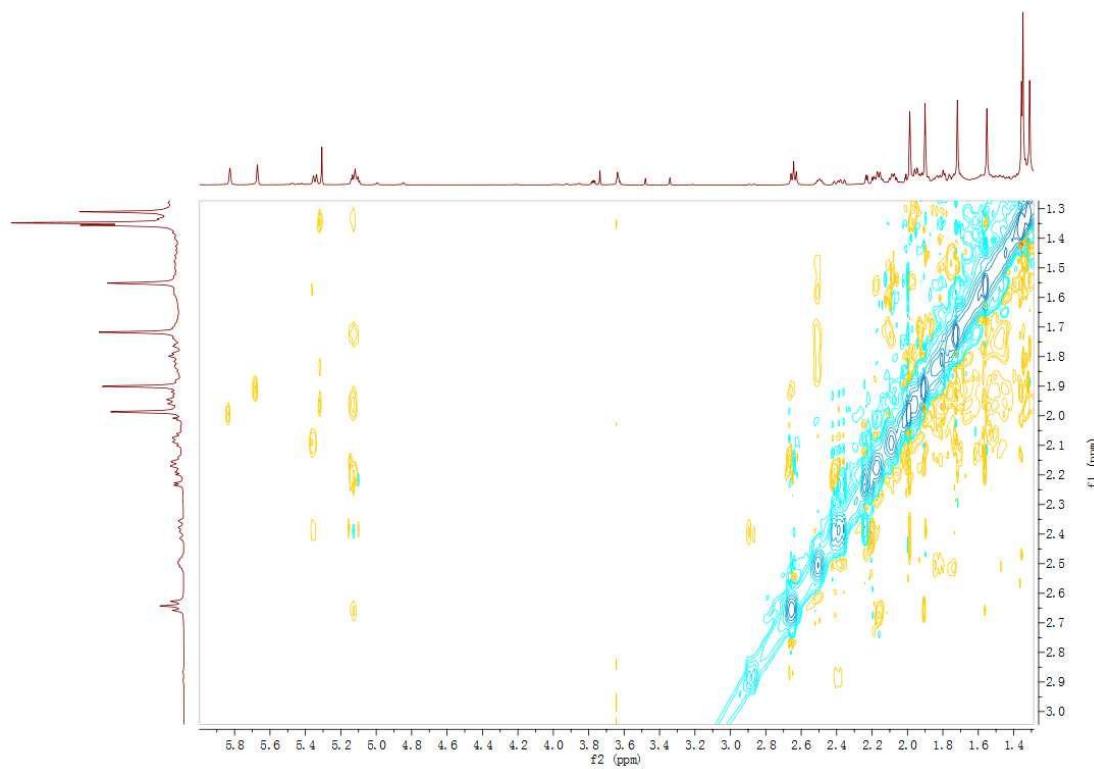
S3.  $^1\text{H}$ - $^1\text{H}$ COSY spectrum of compound aphanamene C (**1**) in  $\text{CDCl}_3$



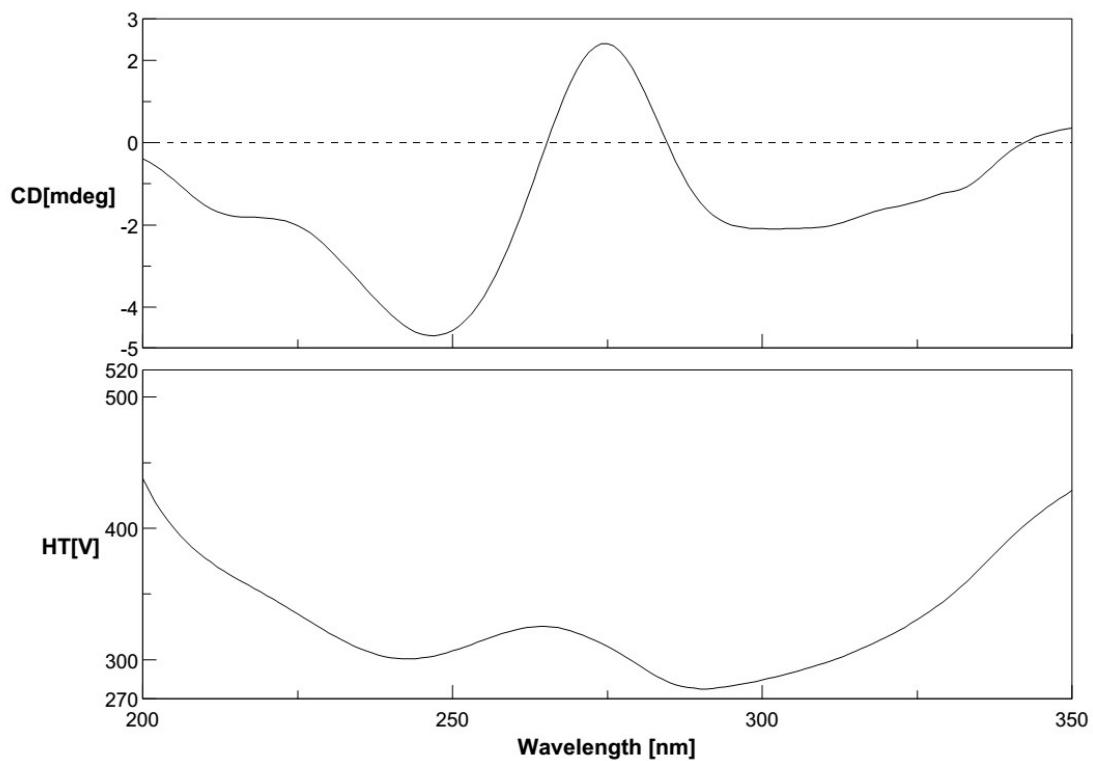
S4. HSQC spectrum of compound aphanamene C (**1**) in  $\text{CDCl}_3$



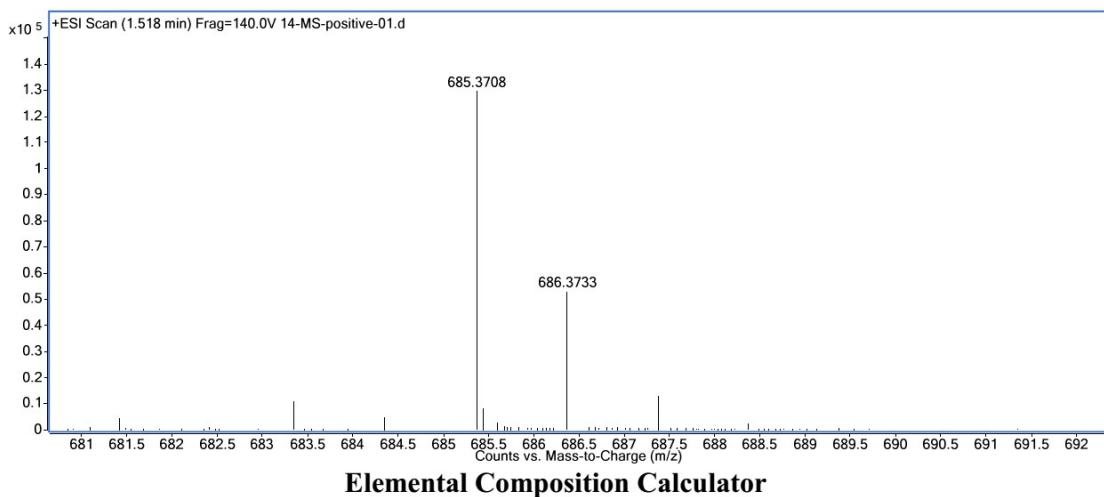
S5. HMBC spectrum of compound aphanamene C (**1**) in  $\text{CDCl}_3$



S6. ROESY spectrum of compound aphanamene C (**1**) in  $\text{CDCl}_3$



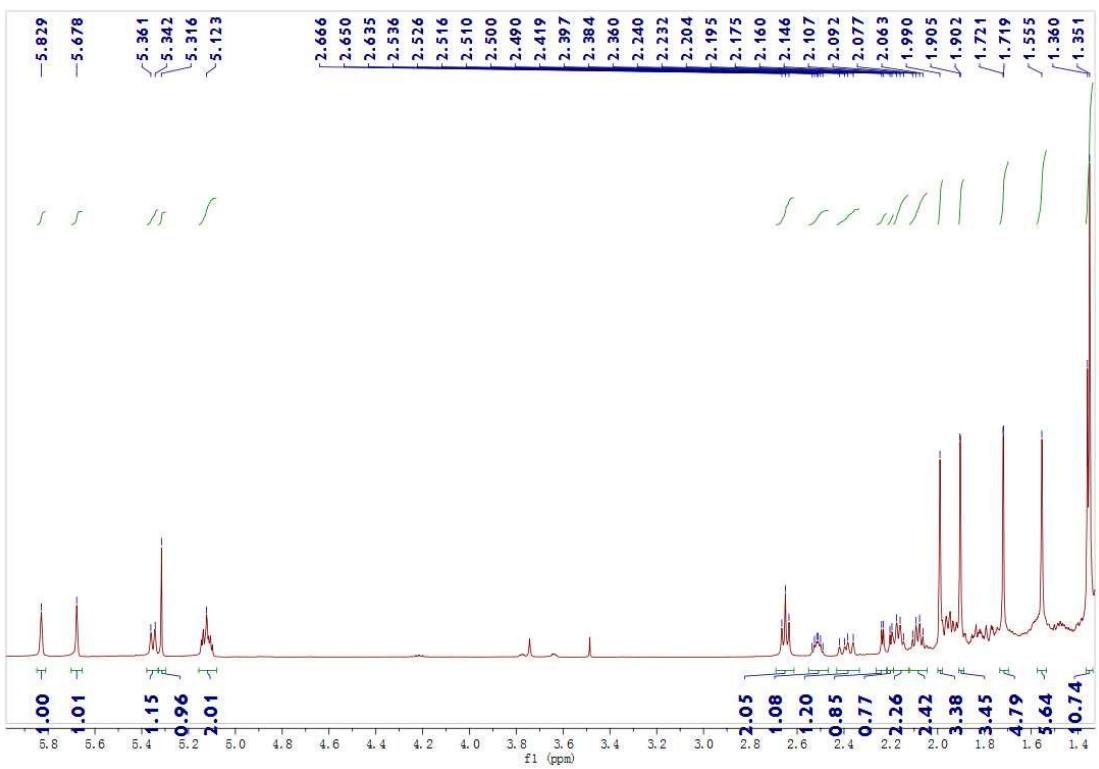
S7. CD spectrum of compound aphanamene C (**1**) in CH<sub>3</sub>OH



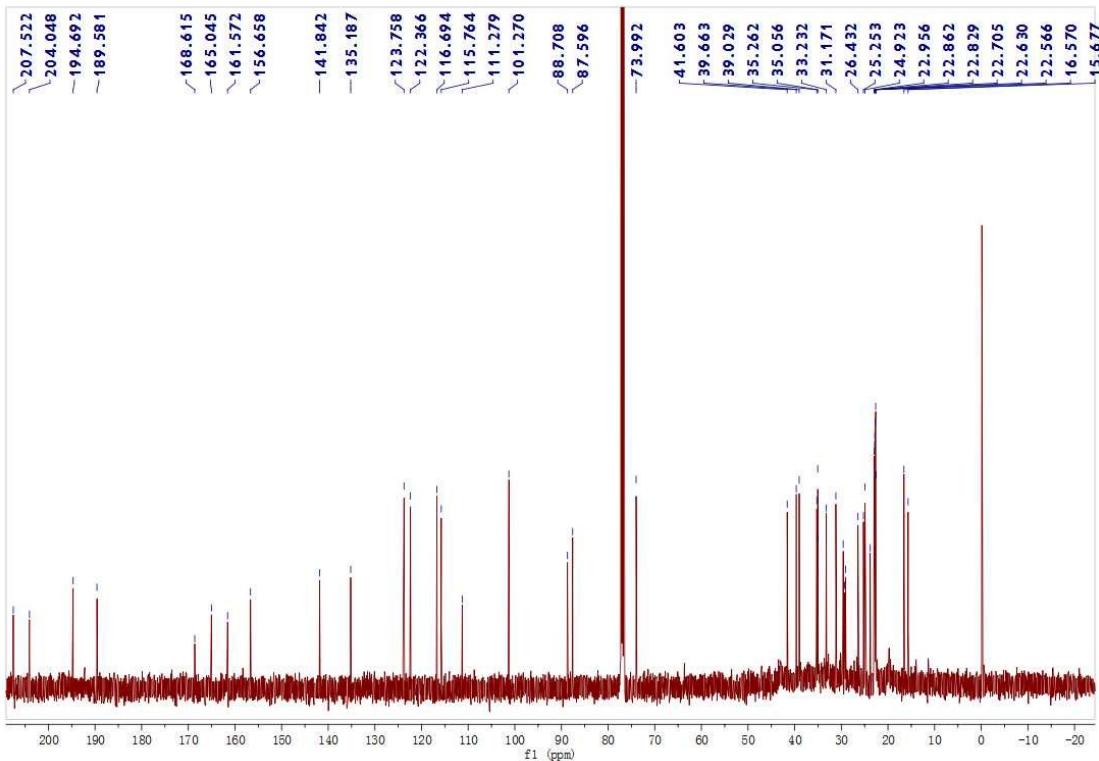
#### Elemental Composition Calculator

Target m/z:	685.3708	Result type:	Positive ions	Species:	[M+Na] <sup>+</sup>
Elements:	C (0-80); H (0-120); O (0-30); N (0-10); Na (0-5); Cl (0-5)				
Ion Formula	Calculated m/z			PPM Error	
C <sub>40</sub> H <sub>52</sub> NaO <sub>8</sub>	685.3711			0.47	

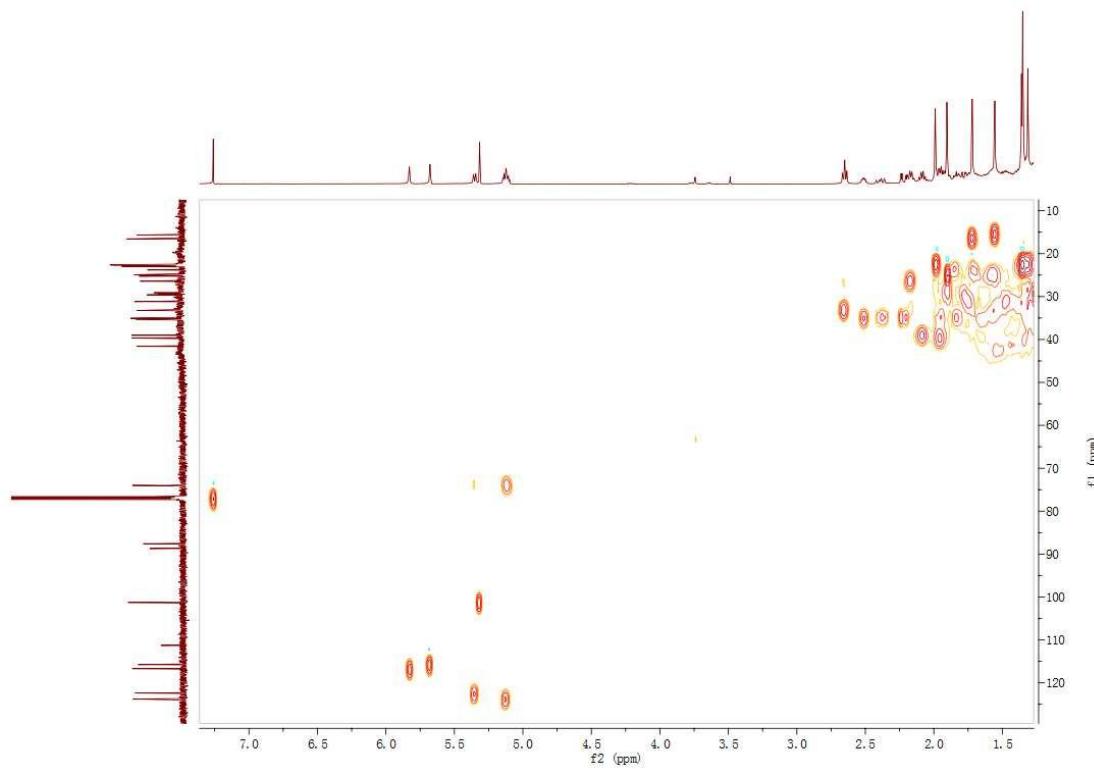
S8. HRESIMS spectrum of compound aphanamene C (**1**) in CH<sub>3</sub>OH



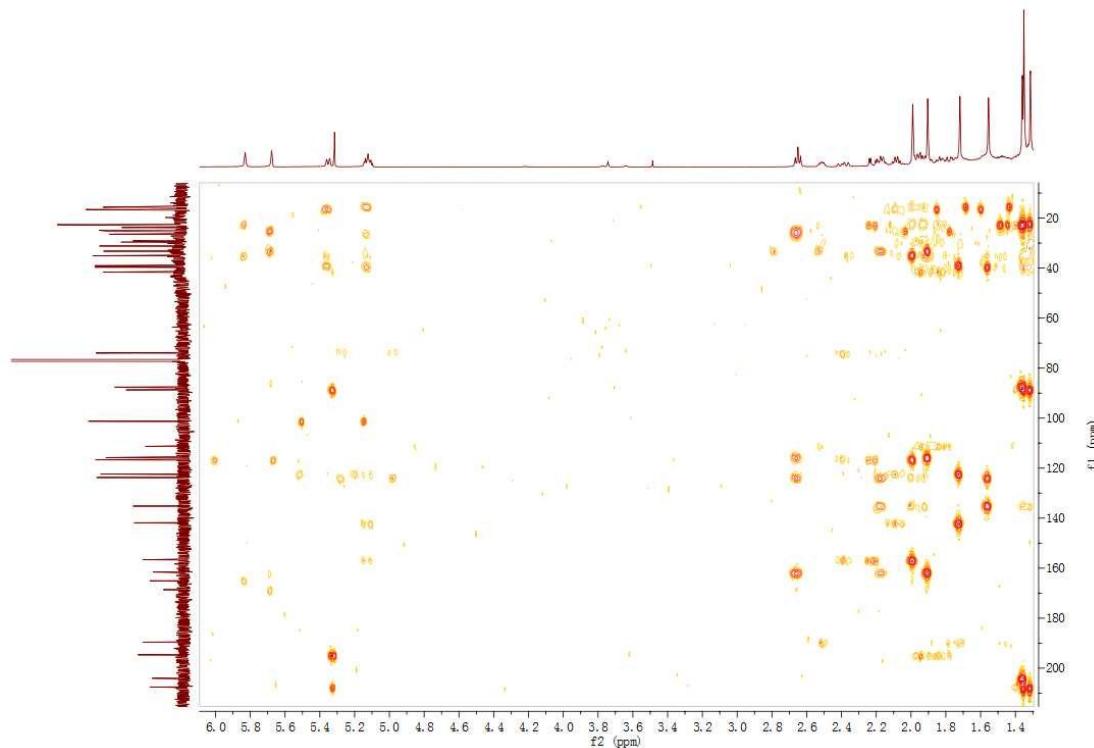
S9.  $^1\text{H}$  NMR spectrum of compound aphanamene D (**2**) in  $\text{CDCl}_3$



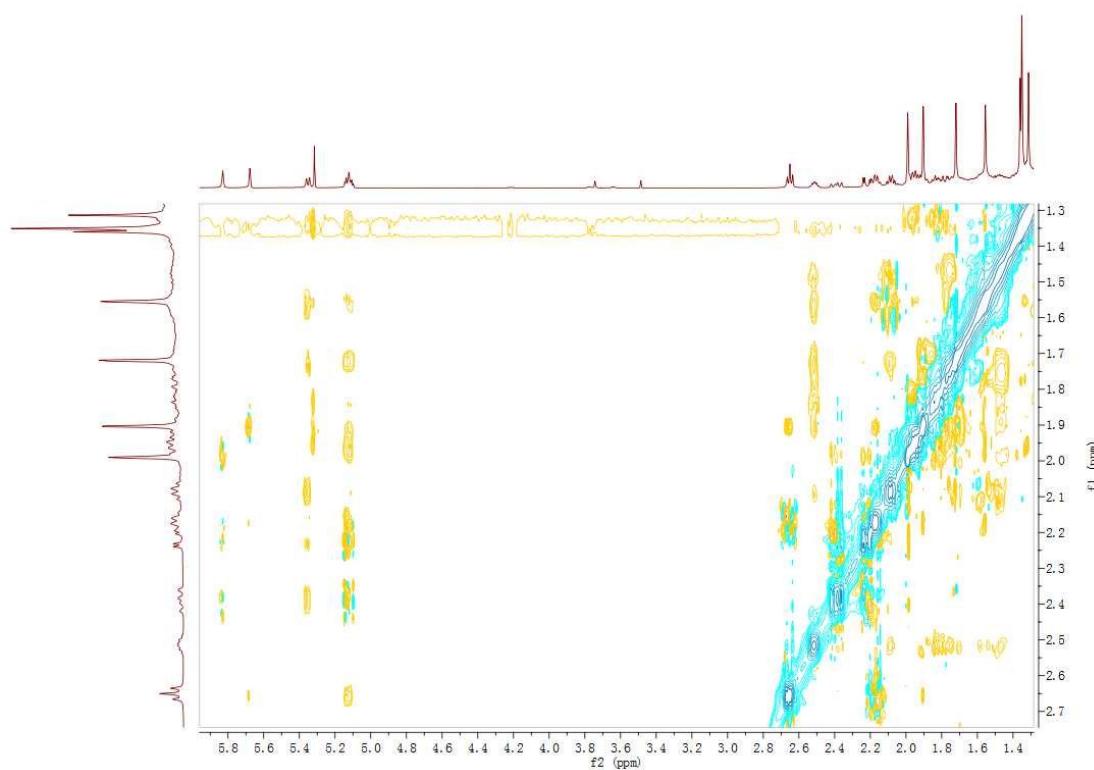
S10.  $^{13}\text{C}$  NMR spectrum of compound aphanamene D (**2**) in  $\text{CDCl}_3$



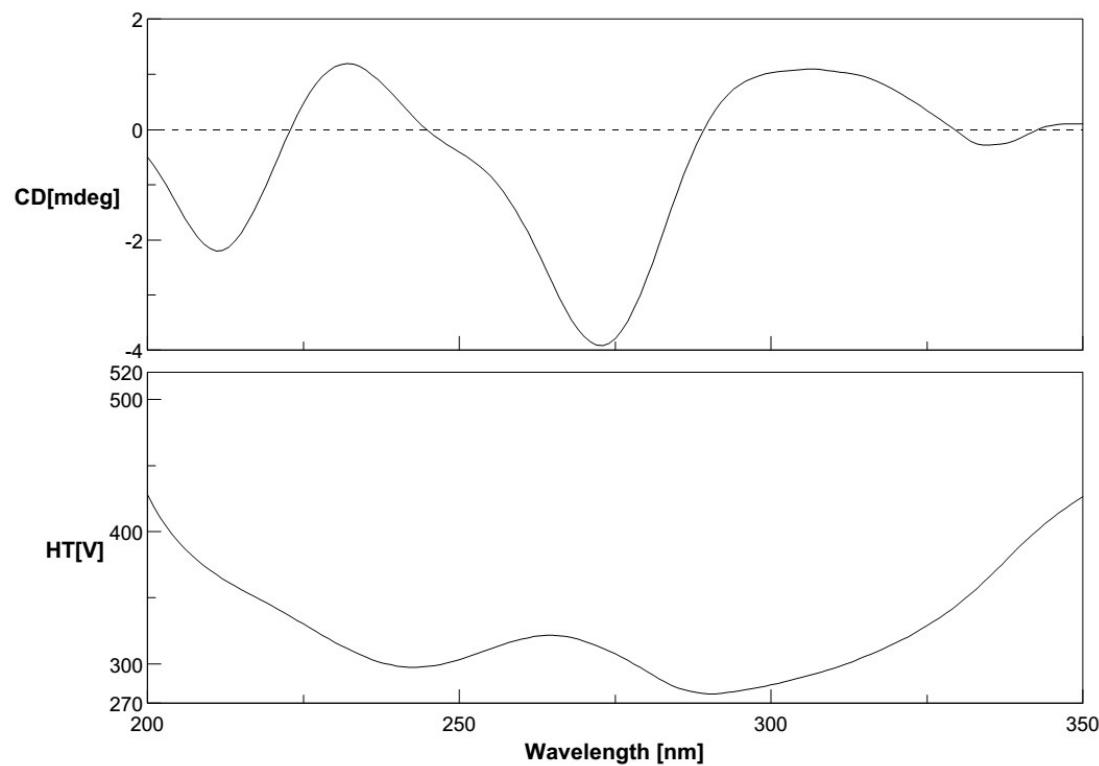
S11. HSQC spectrum of compound aphanamene D (**2**) in  $\text{CDCl}_3$



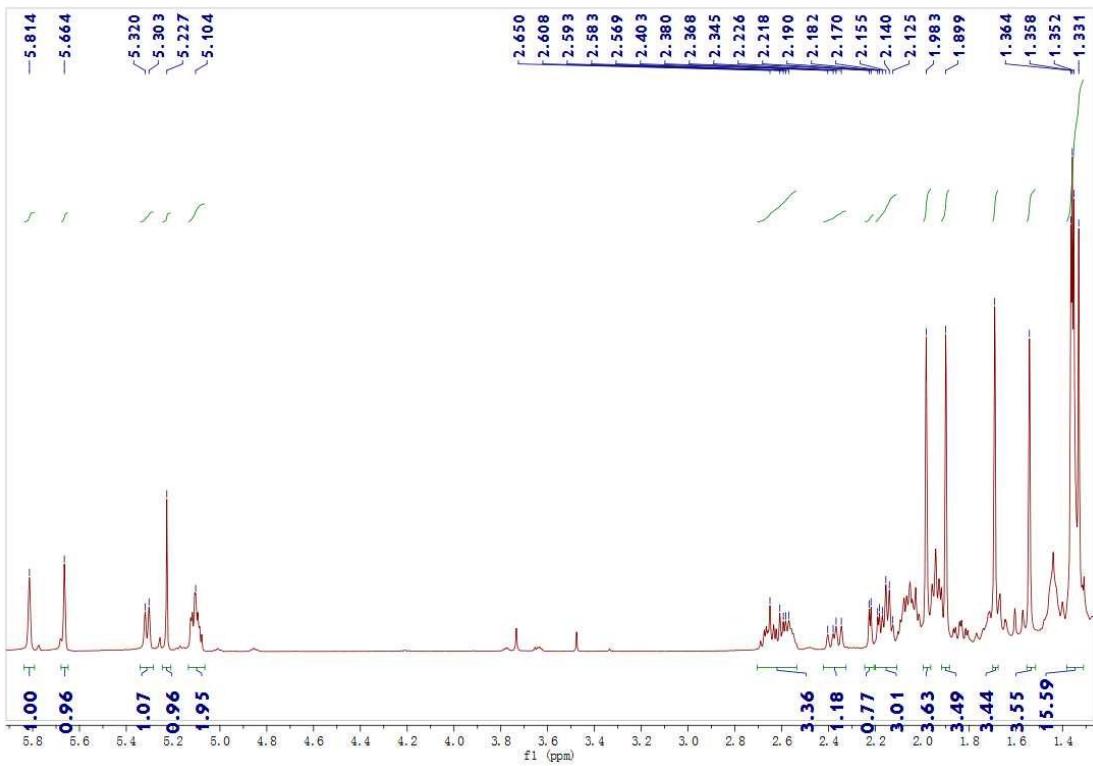
S12. HMBC spectrum of compound aphanamene D (**2**) in  $\text{CDCl}_3$



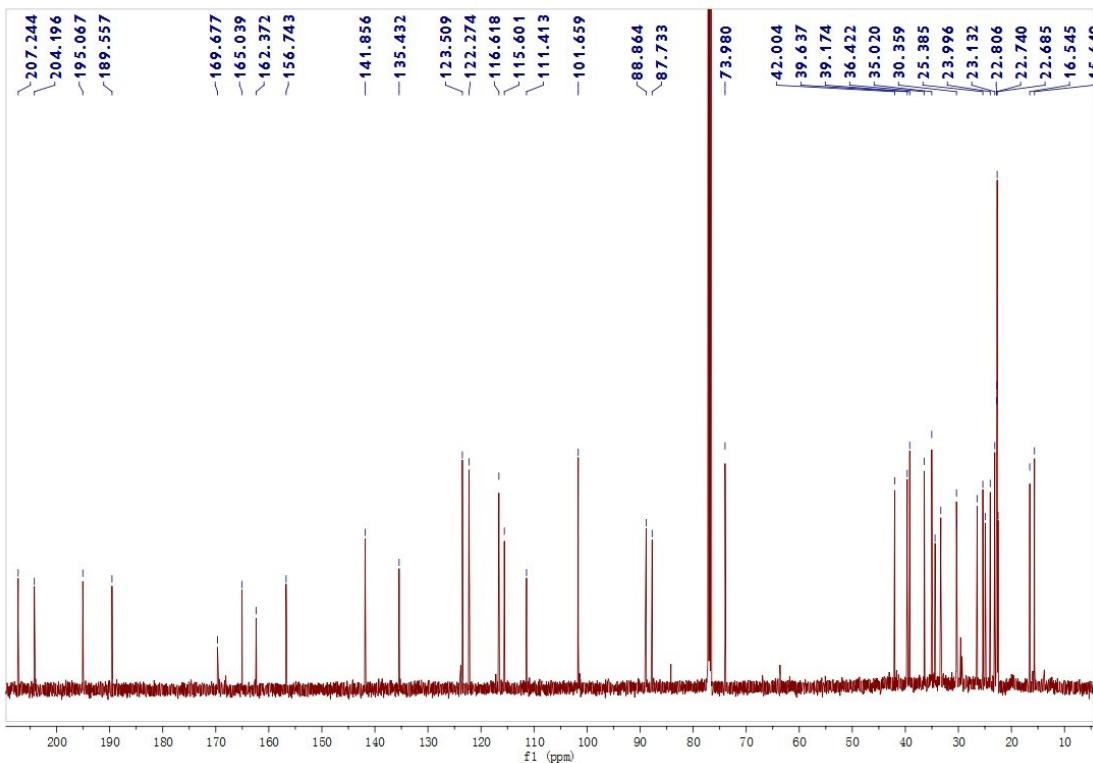
S13. ROESY spectrum of compound aphanamene D (**2**) in  $\text{CDCl}_3$



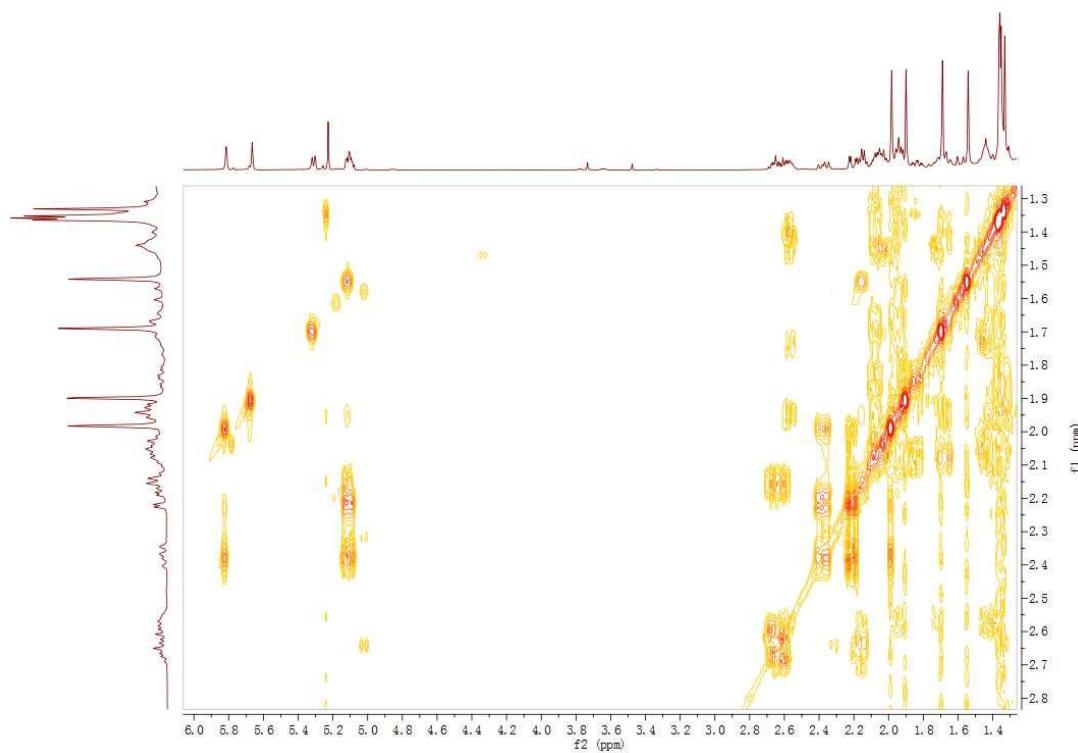
S14. CD spectrum of compound aphanamene D (**2**) in  $\text{CH}_3\text{OH}$



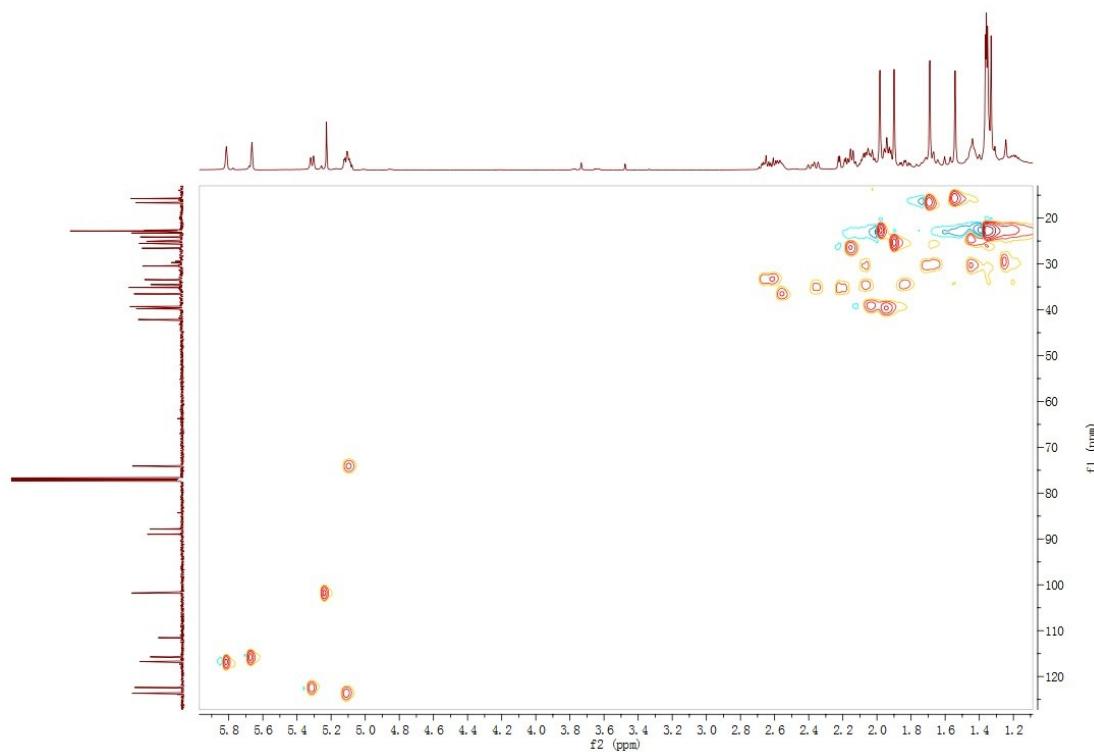
S15.  $^1\text{H}$  NMR spectrum of compound aphanamene E (**3**) in  $\text{CDCl}_3$



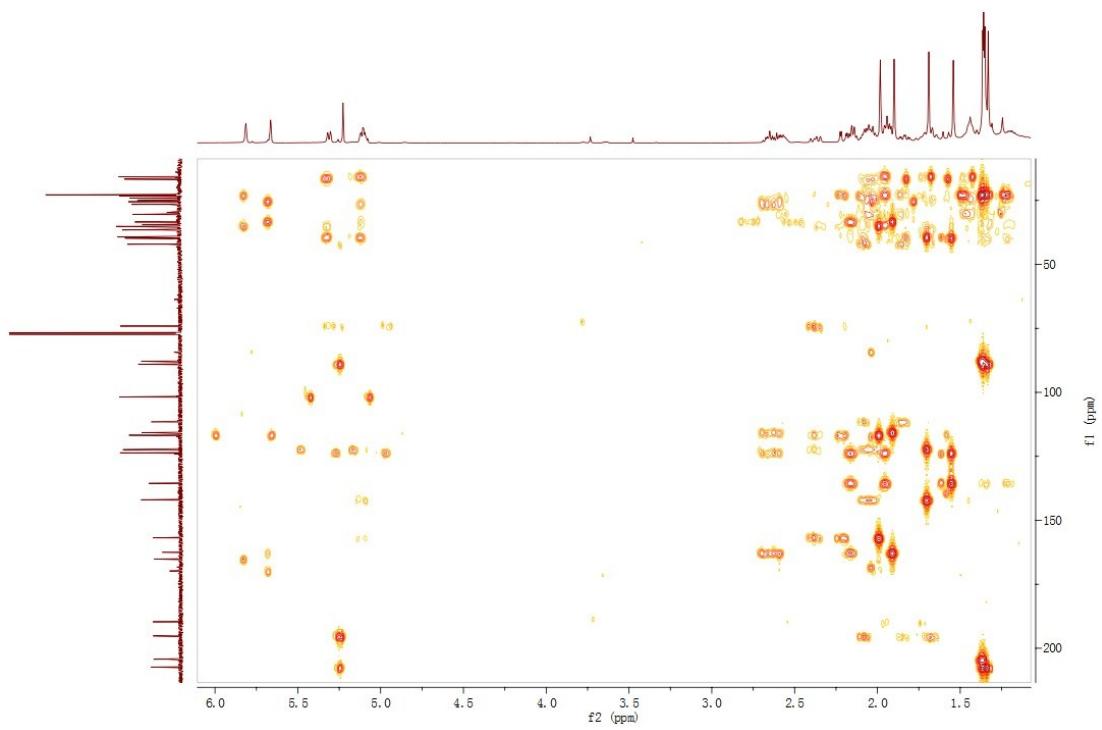
S16.  $^{13}\text{C}$  NMR spectrum of compound aphanamene E (**3**) in  $\text{CDCl}_3$



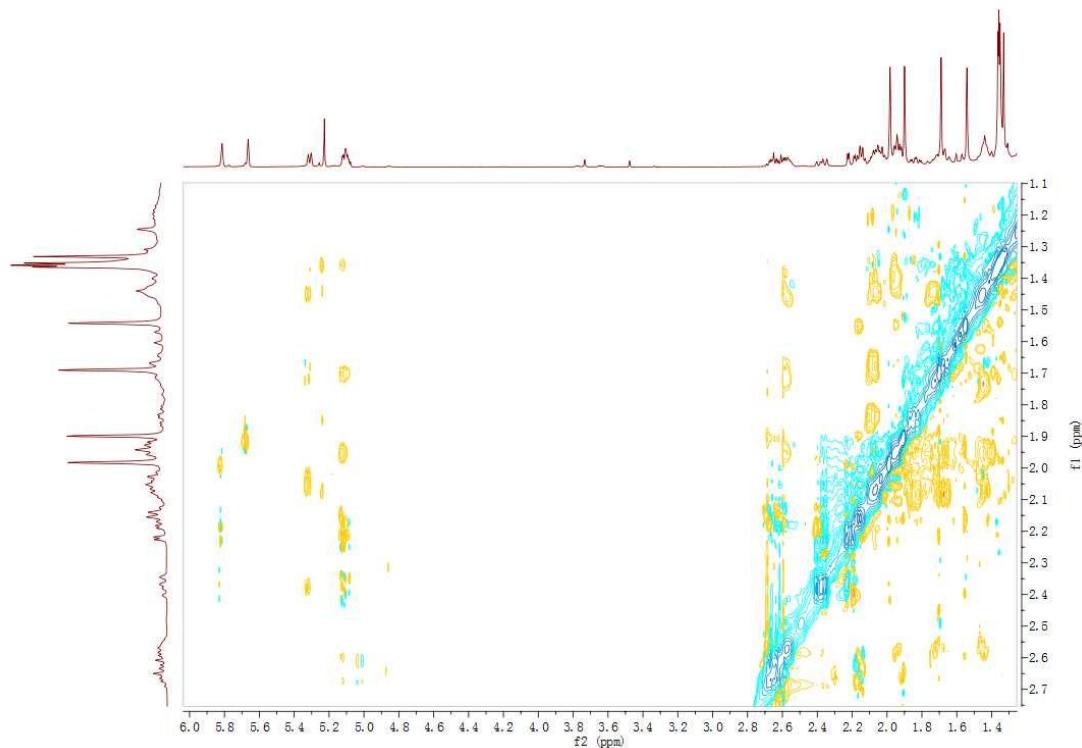
S17.  $^1\text{H}$ - $^1\text{H}$  NMR spectrum of compound aphanamene E (**3**) in  $\text{CDCl}_3$



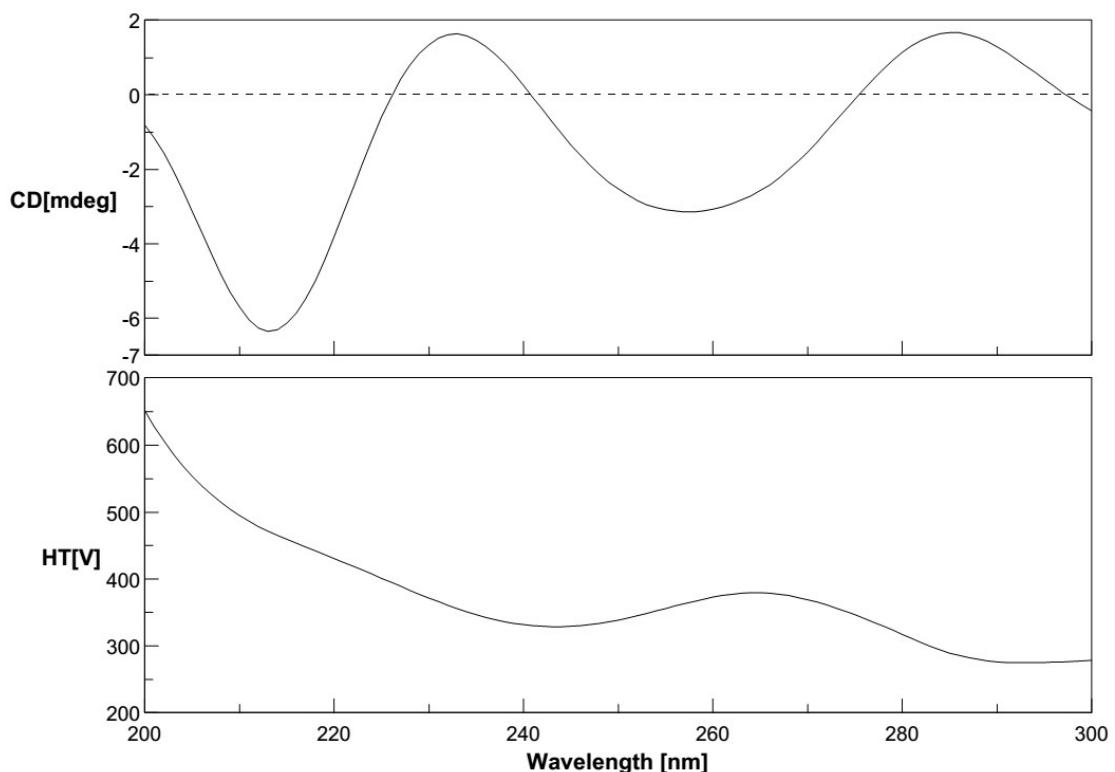
S18. HSQC spectrum of compound aphanamene E (**3**) in  $\text{CDCl}_3$



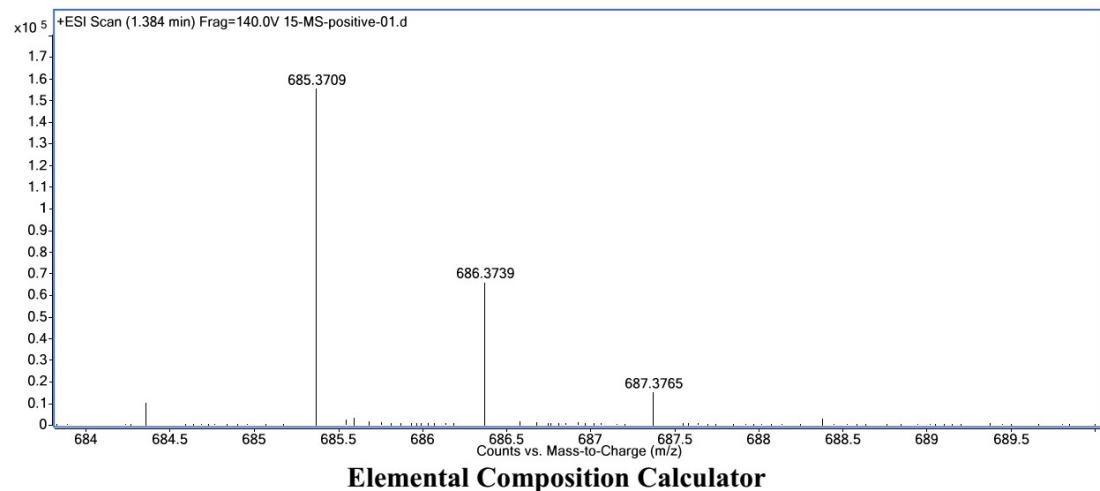
S19. HMBC spectrum of compound aphanamene E (**3**) in  $\text{CDCl}_3$



S20. ROESY spectrum of compound aphanamene E (**3**) in  $\text{CDCl}_3$

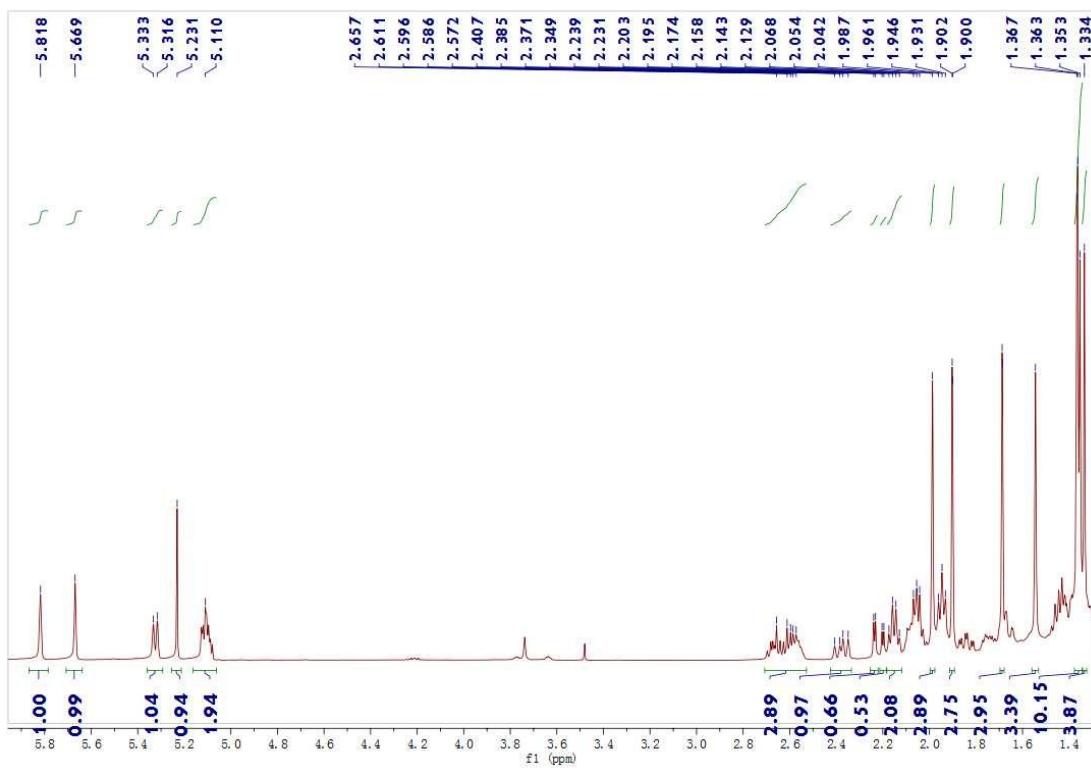


S21. CD spectrum of compound aphanamene E (**3**) in CH<sub>3</sub>OH

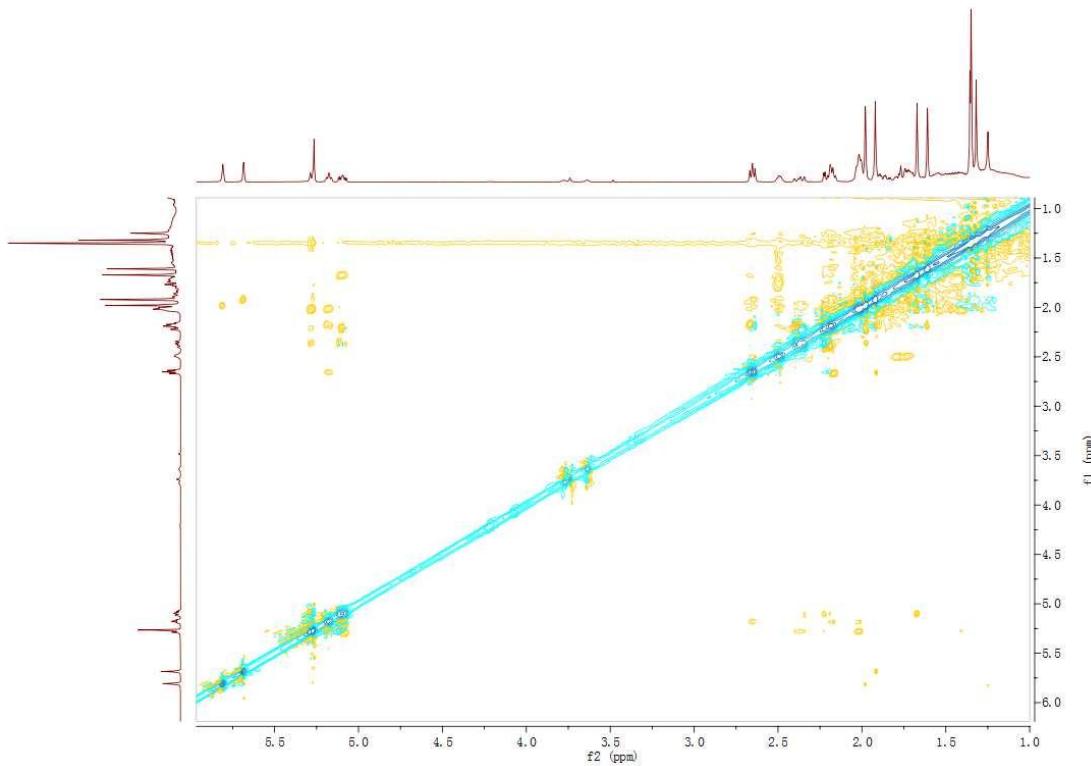


Target m/z:	685.3709	Result type:	Positive ions	Species:	[M+Na] <sup>+</sup>
<b>Elements:</b>		C (0-80); H (0-120); O (0-30); N (0-10); Na (0-5); Cl (0-5)			
<b>Ion Formula</b>		<b>Calculated m/z</b>		<b>PPM Error</b>	
C <sub>40</sub> H <sub>52</sub> NaO <sub>8</sub>		685.3711		0.21	

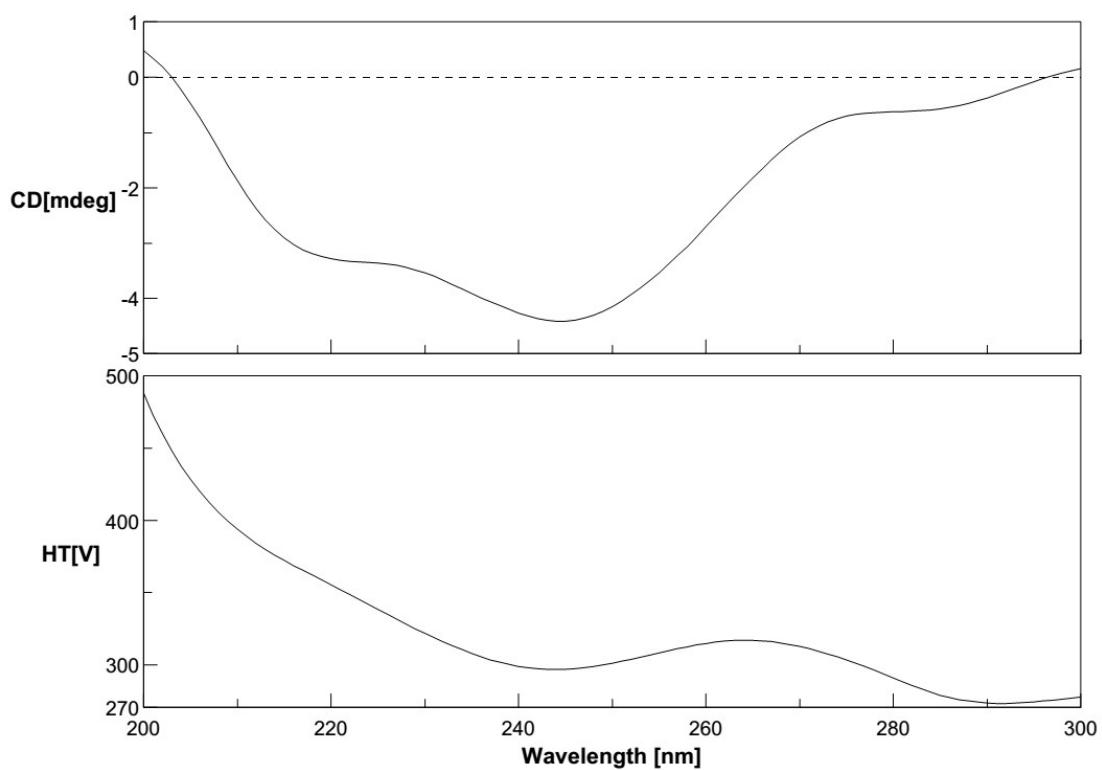
S22. HRESIMS spectrum of compound aphanamene E (**3**) in CH<sub>3</sub>OH



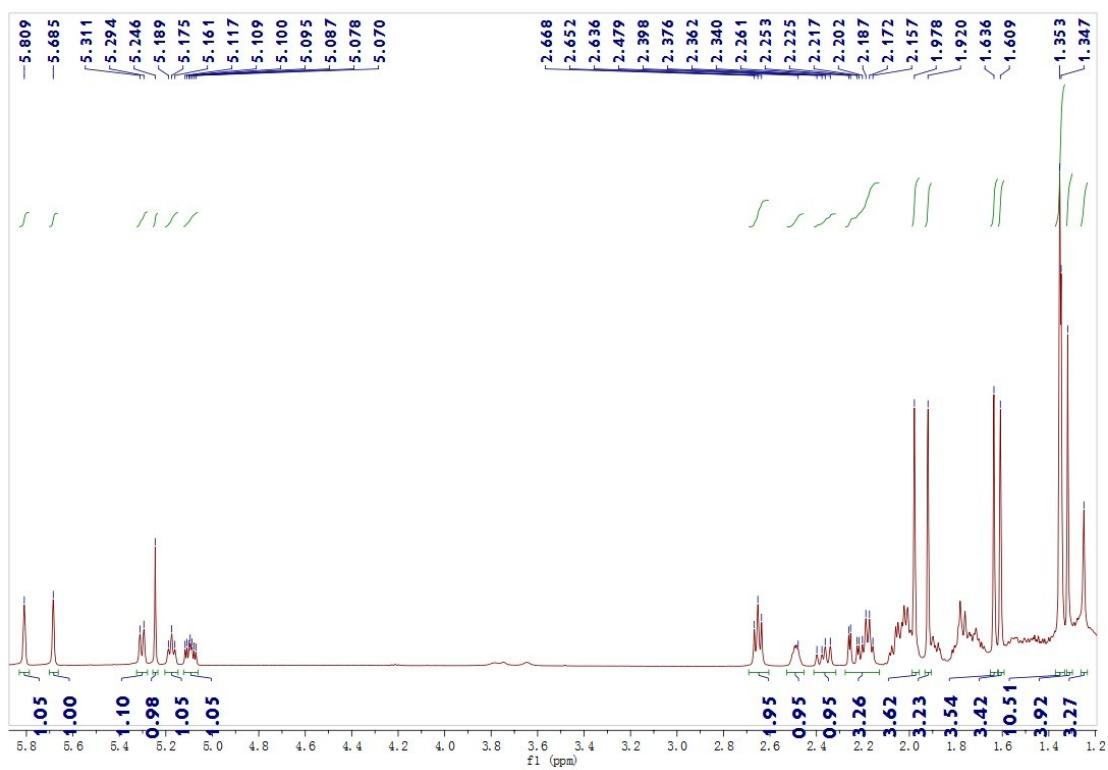
S23.  $^1\text{H}$  NMR spectrum of compound aphanamene F (**4**) in  $\text{CDCl}_3$



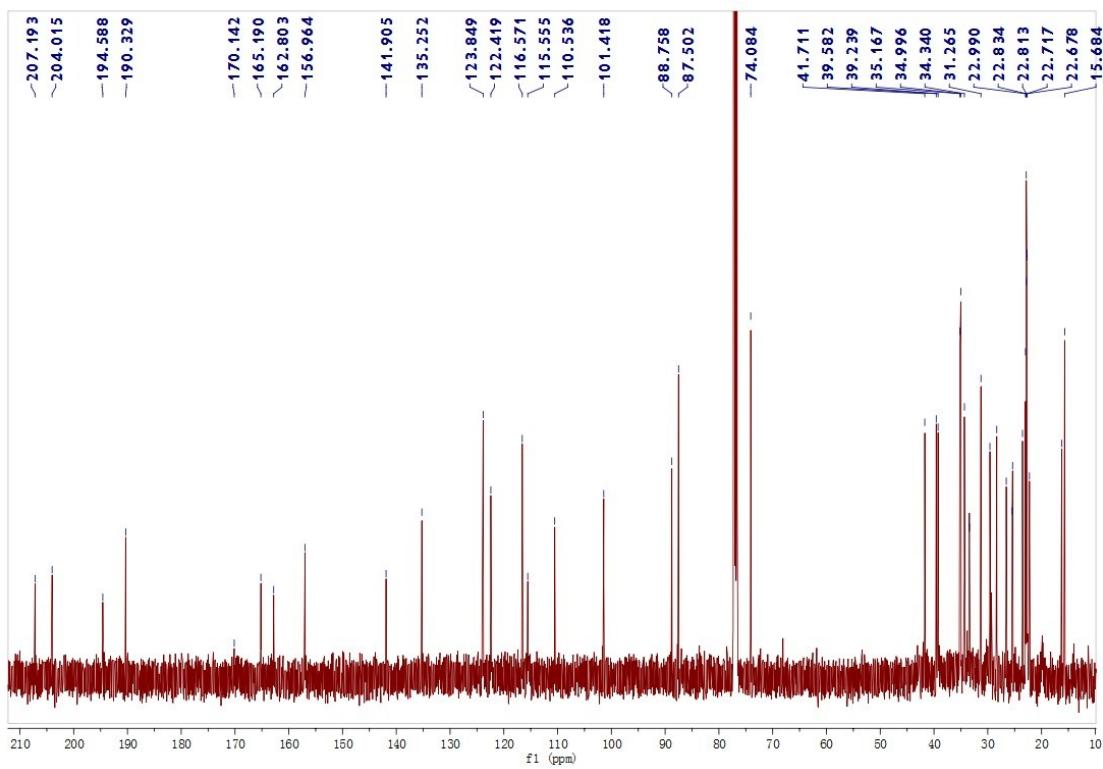
S24. ROESY spectrum of compound aphanamene F (**4**) in  $\text{CDCl}_3$



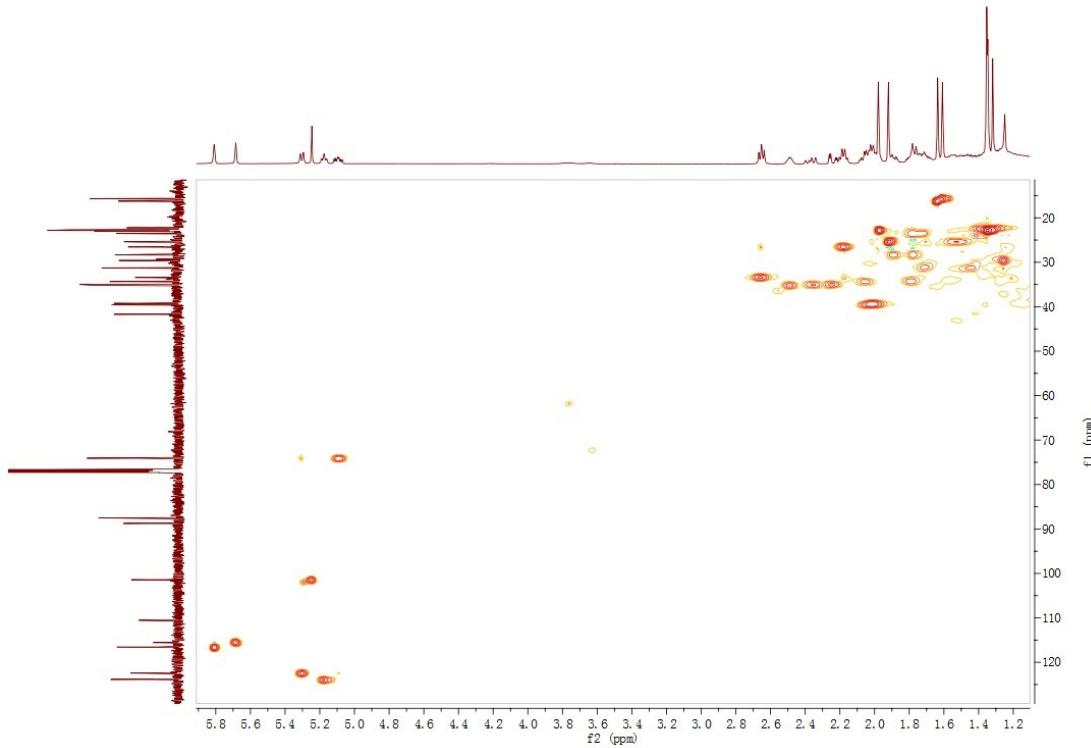
S25. CD spectrum of compound aphanamene F (**4**) in CH<sub>3</sub>OH



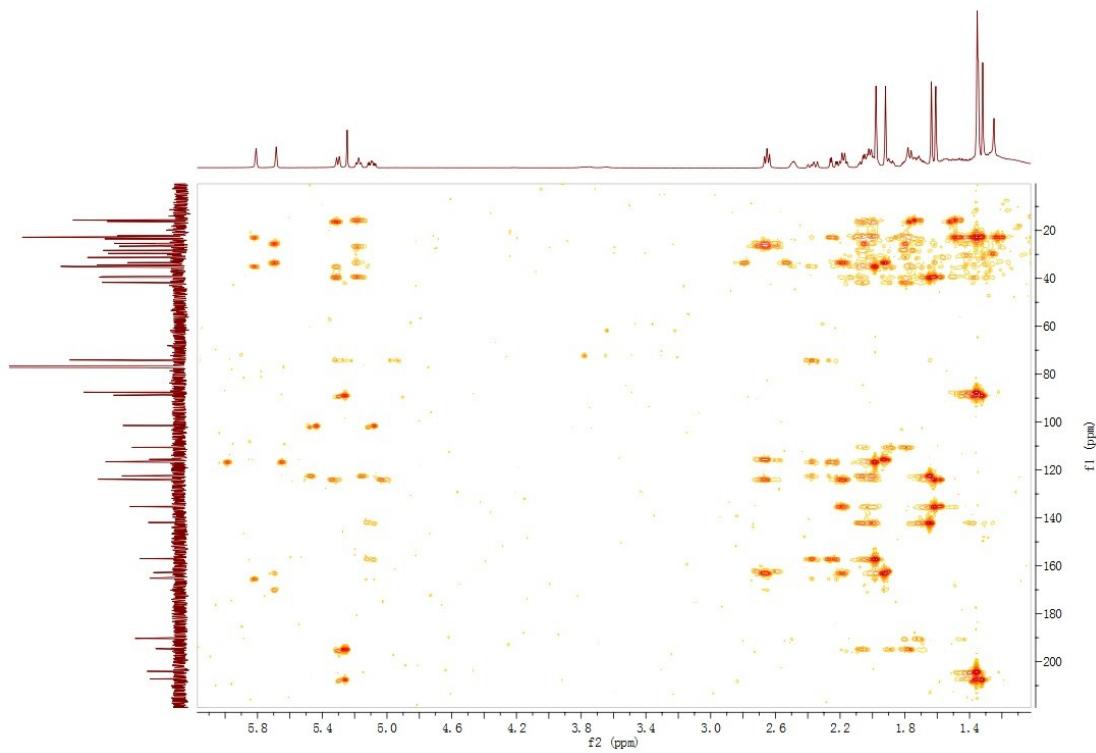
S26.  $^1\text{H}$  NMR spectrum of compound aphanamene G (**5**) in  $\text{CDCl}_3$



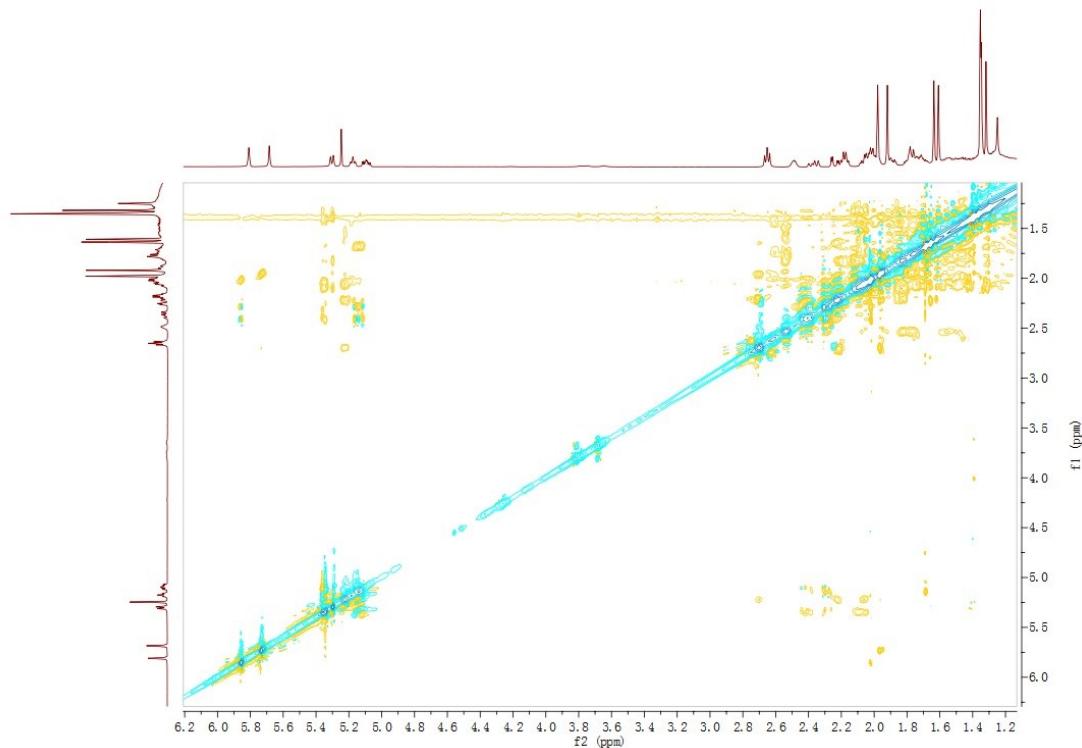
S27.  $^{13}\text{C}$  NMR spectrum of compound aphanamene G (**5**) in  $\text{CDCl}_3$



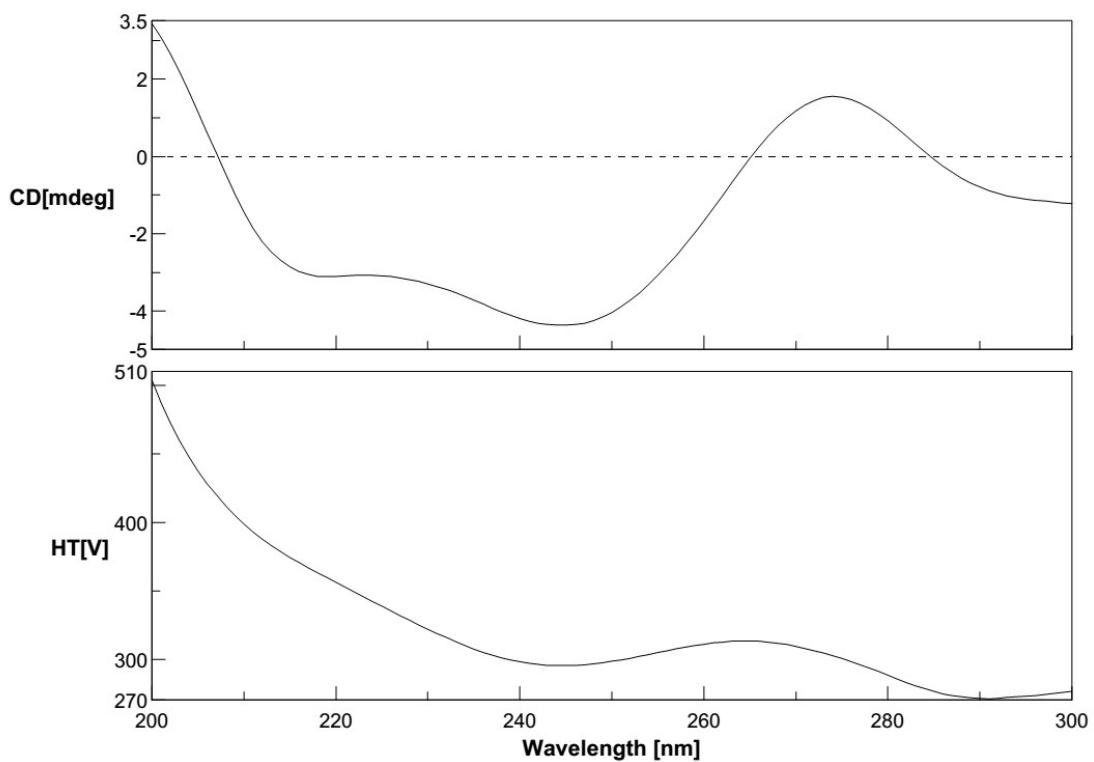
S28. HSQC spectrum of compound aphanamene G (**5**) in  $\text{CDCl}_3$



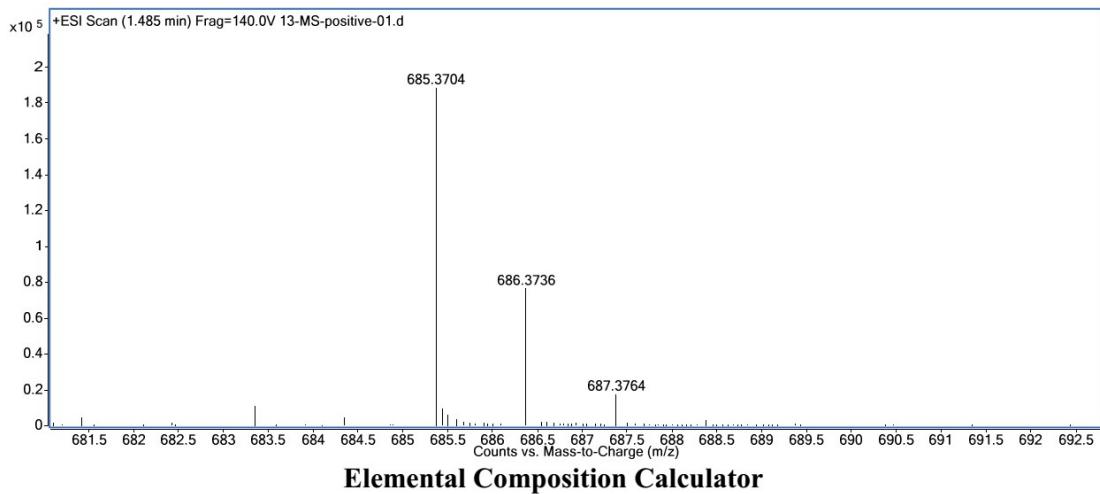
S29. HMBC spectrum of compound aphanamene G (5) in  $\text{CDCl}_3$



S30. ROESY spectrum of compound aphanamene G (5) in  $\text{CDCl}_3$

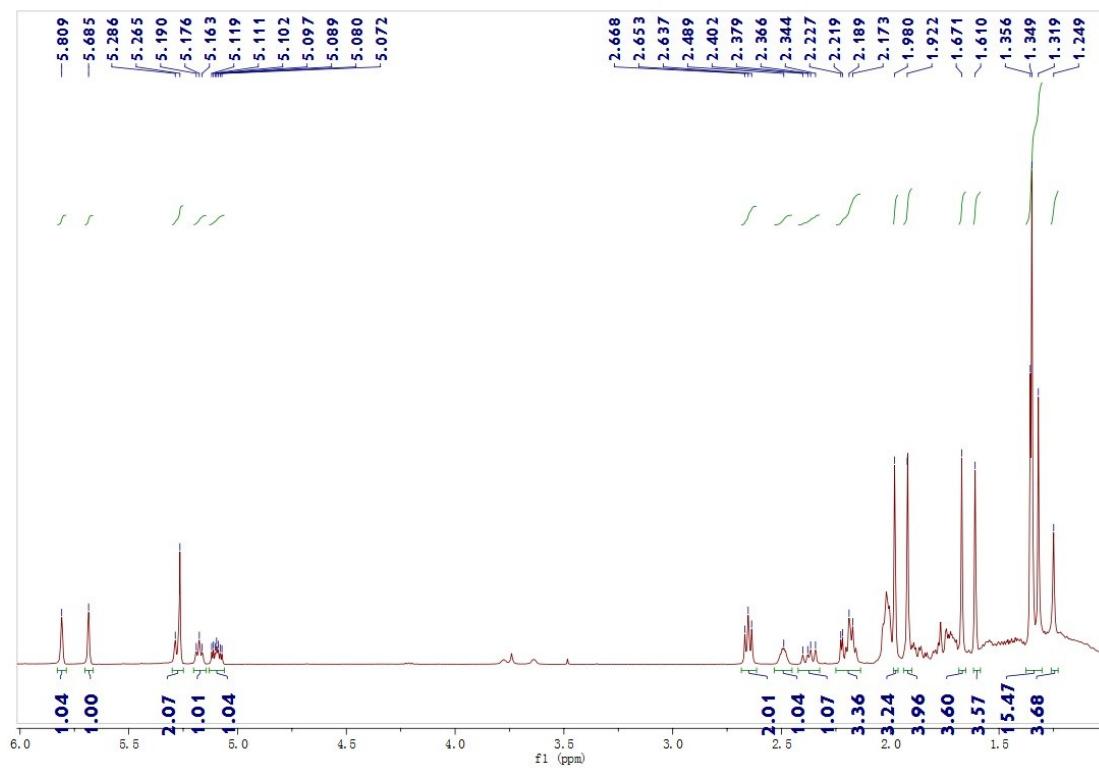


S31. CD spectrum of compound aphanamene G (**5**) in CH<sub>3</sub>OH

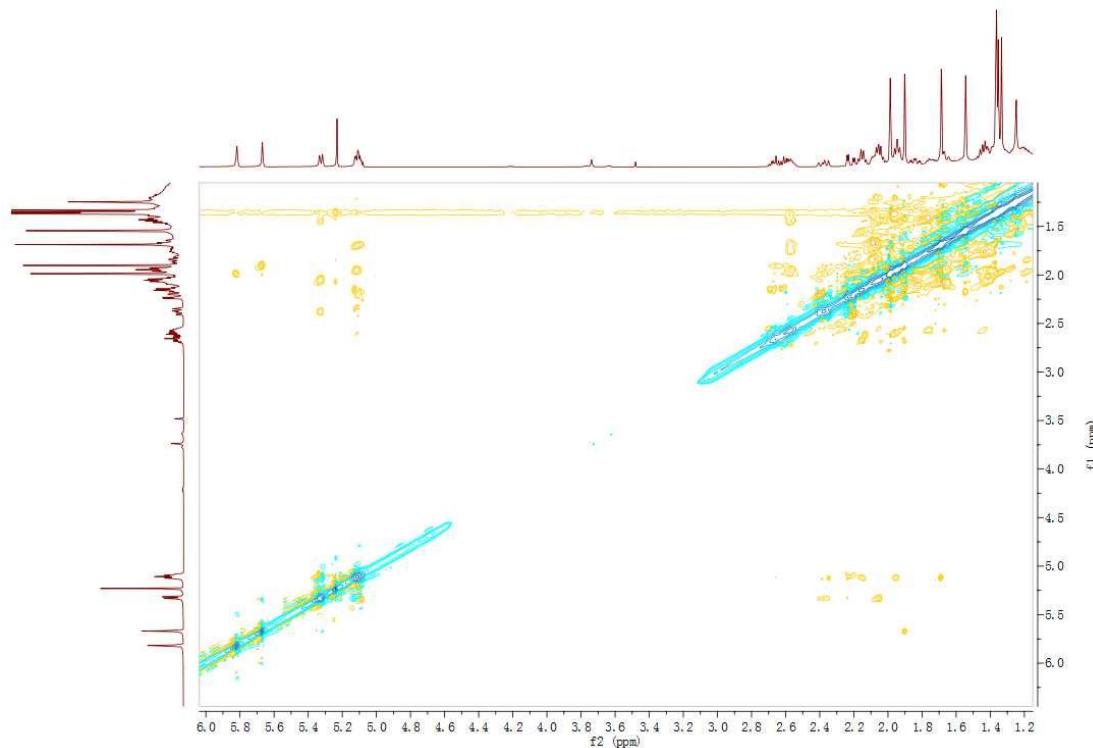


Target m/z:	685.3704	Result type:	Positive ions	Species:	[M+Na] <sup>+</sup>
Elements:	C (0-80); H (0-120); O (0-30); N (0-10); Na (0-5); Cl (0-5)				
Ion Formula	Calculated m/z			PPM Error	
C40H52NaO8	685.3711			0.99	

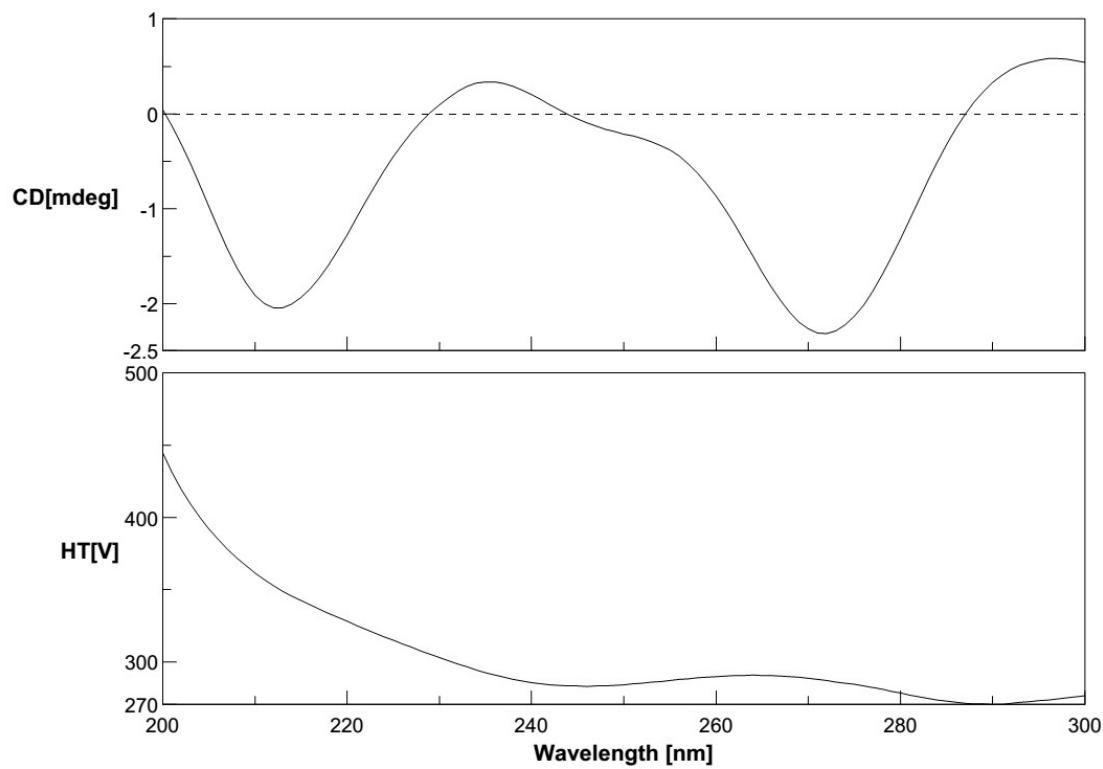
S32. HRESIMS spectrum of compound aphanamene G (**5**) in CH<sub>3</sub>OH



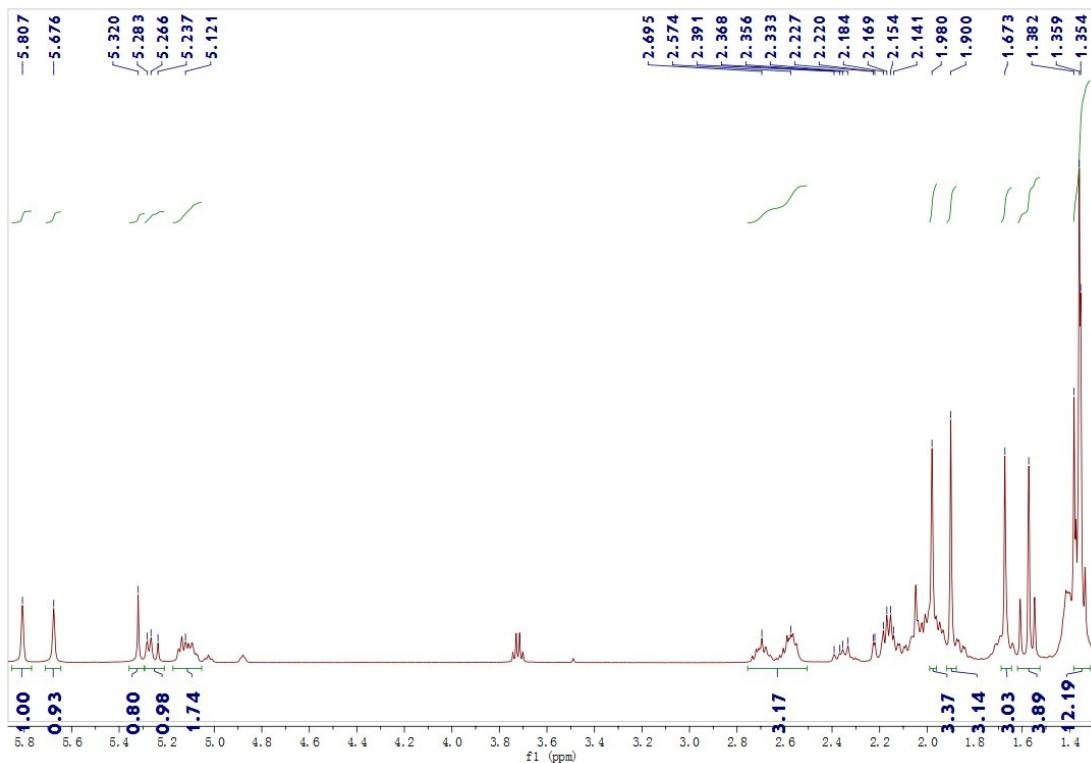
S33.  $^1\text{H}$  NMR spectrum of compound aphanamene H (**6**) in  $\text{CDCl}_3$



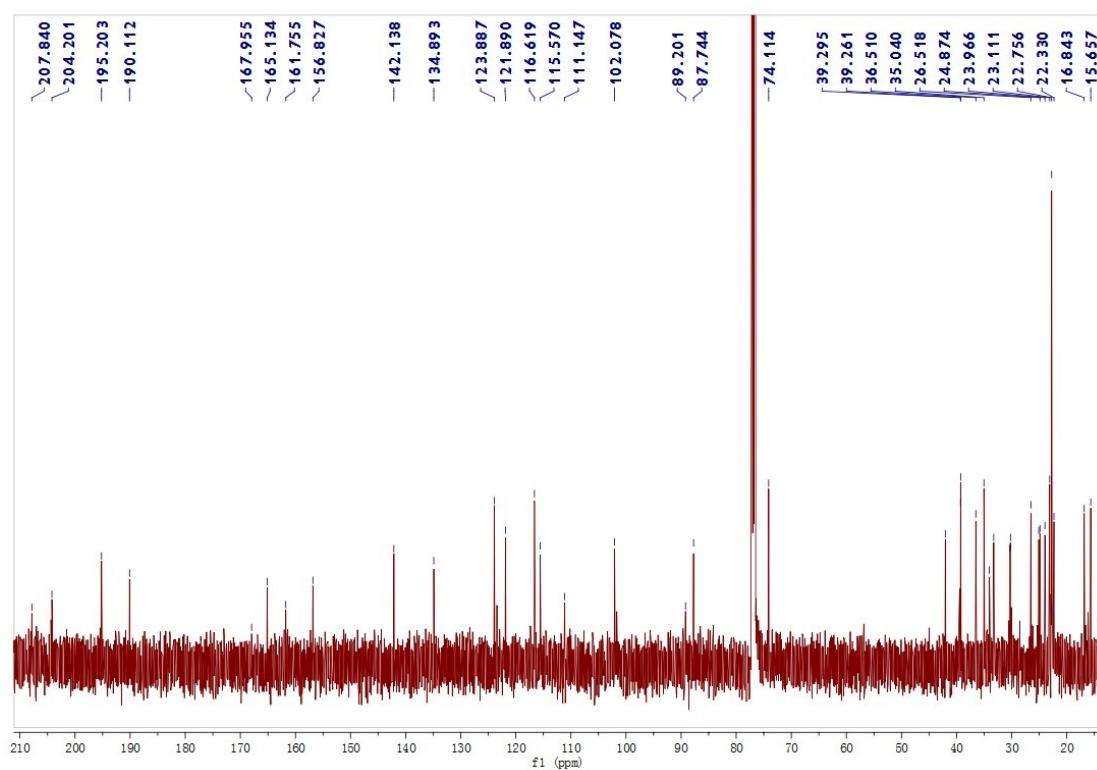
S34. ROESY spectrum of compound aphanamene H (**6**) in  $\text{CDCl}_3$



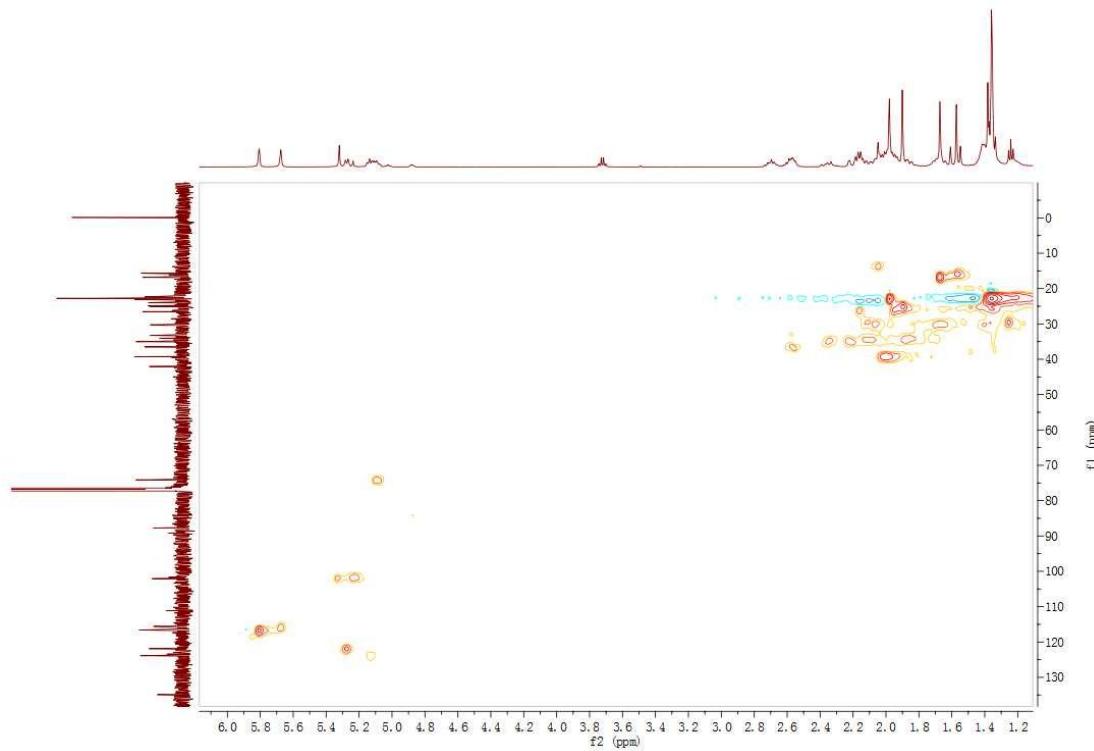
S35. CD spectrum of compound aphanamene H (**6**) in CH<sub>3</sub>OH



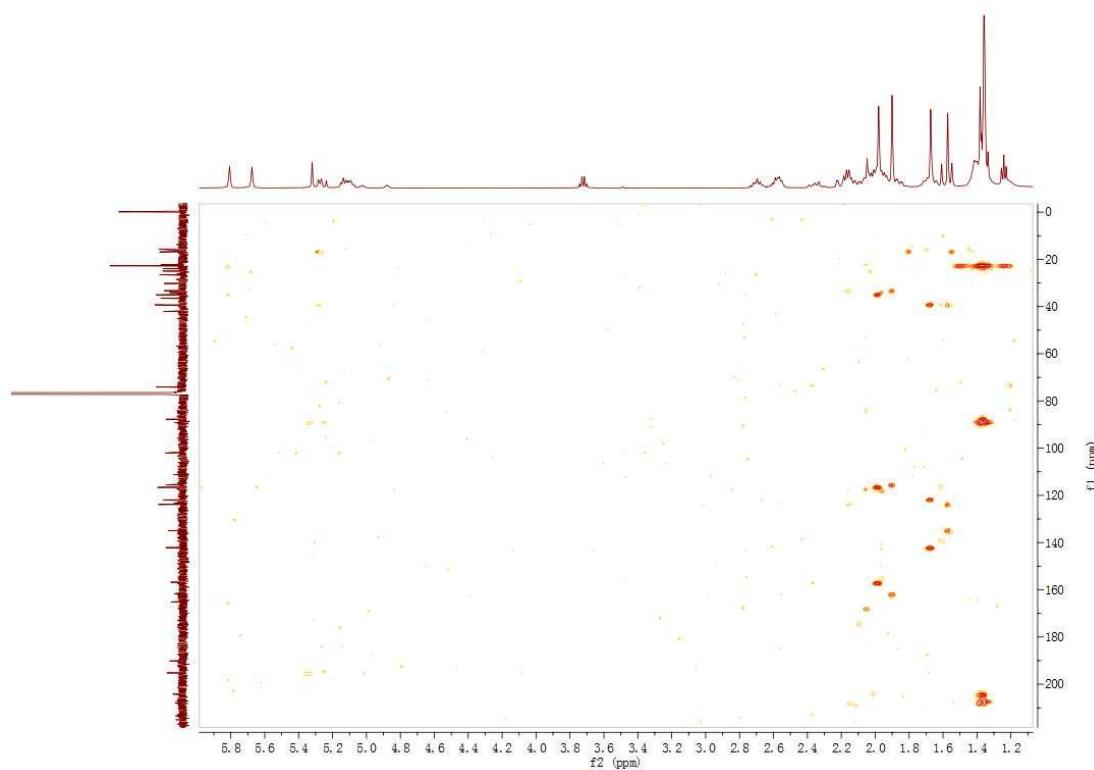
S36. <sup>1</sup>H NMR spectrum of compound aphanamene I (**7**) in CDCl<sub>3</sub>



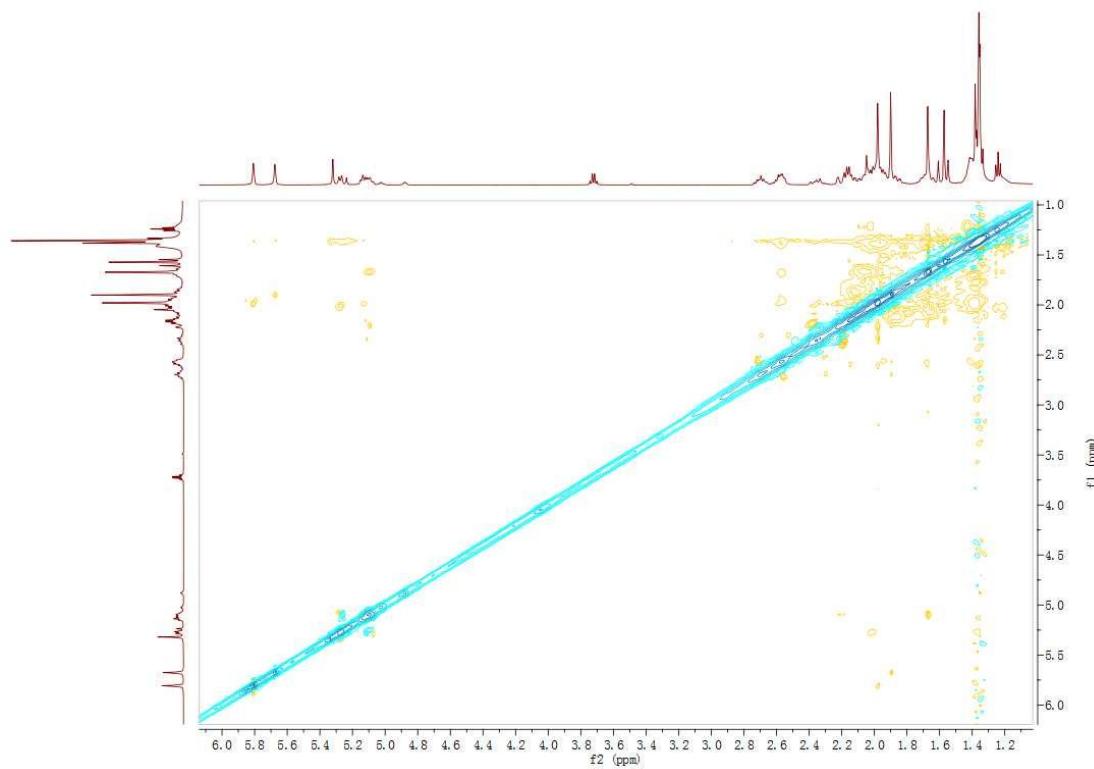
S37.  $^{13}\text{C}$  NMR spectrum of compound aphanamene I (7) in  $\text{CDCl}_3$



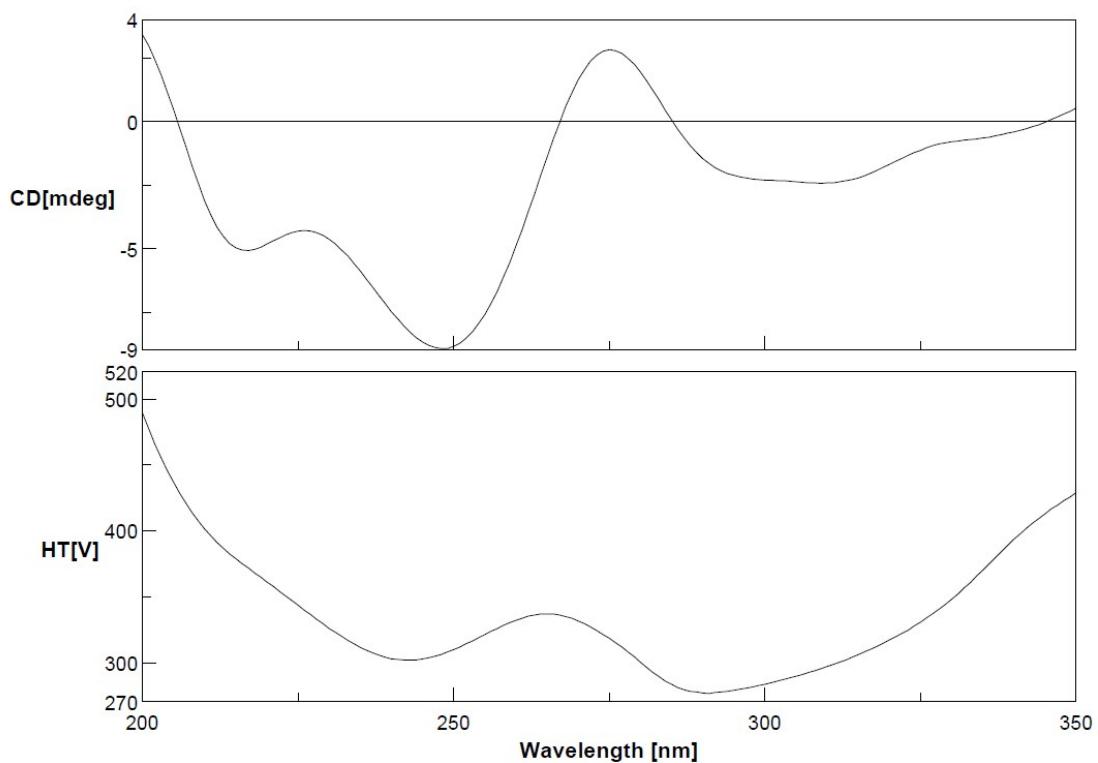
S38. HSQC spectrum of compound aphanamene I (7) in  $\text{CDCl}_3$



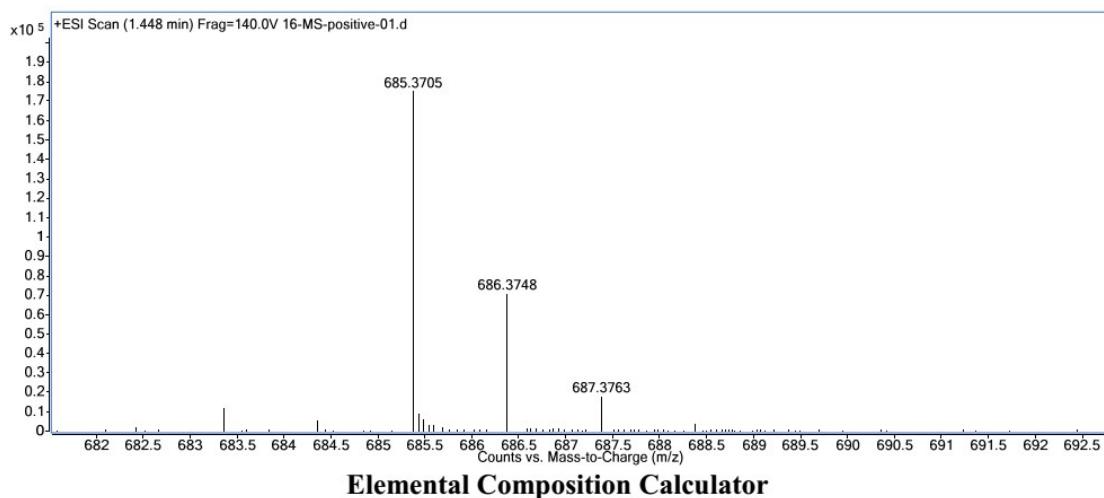
S39. HMBC spectrum of compound aphanamene I (7) in  $\text{CDCl}_3$



S40. ROESY spectrum of compound aphanamene I (7) in  $\text{CDCl}_3$

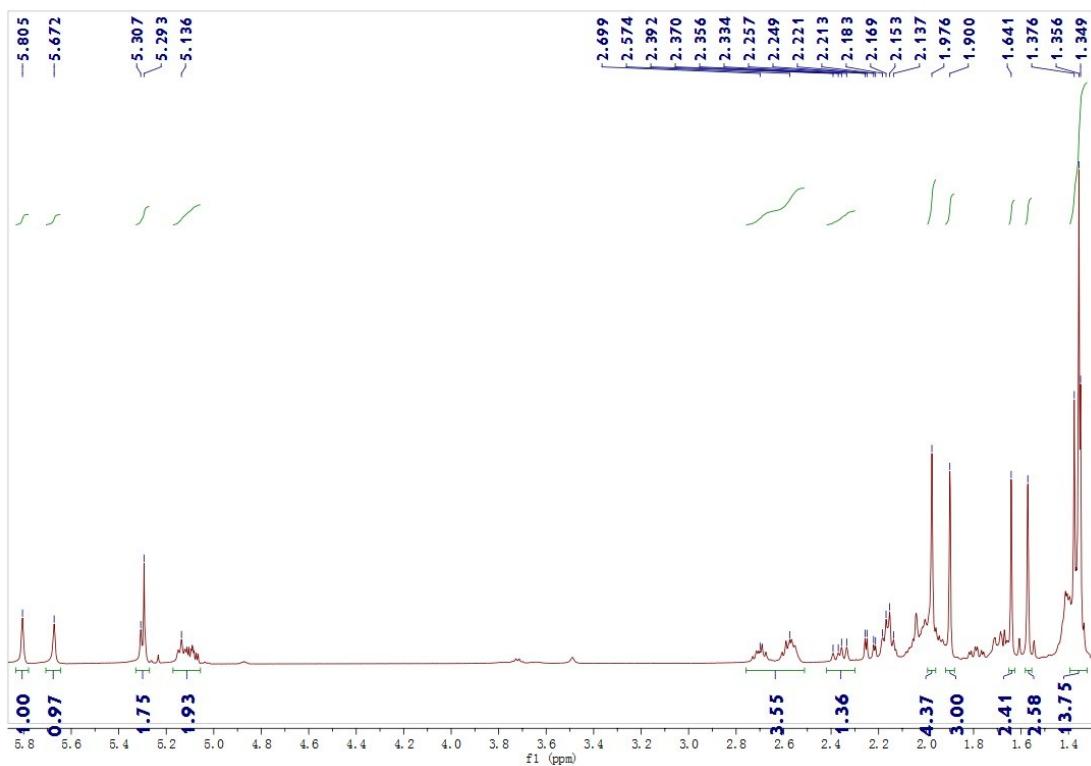


S41. CD spectrum of compound aphanamene I (7) in CH<sub>3</sub>OH

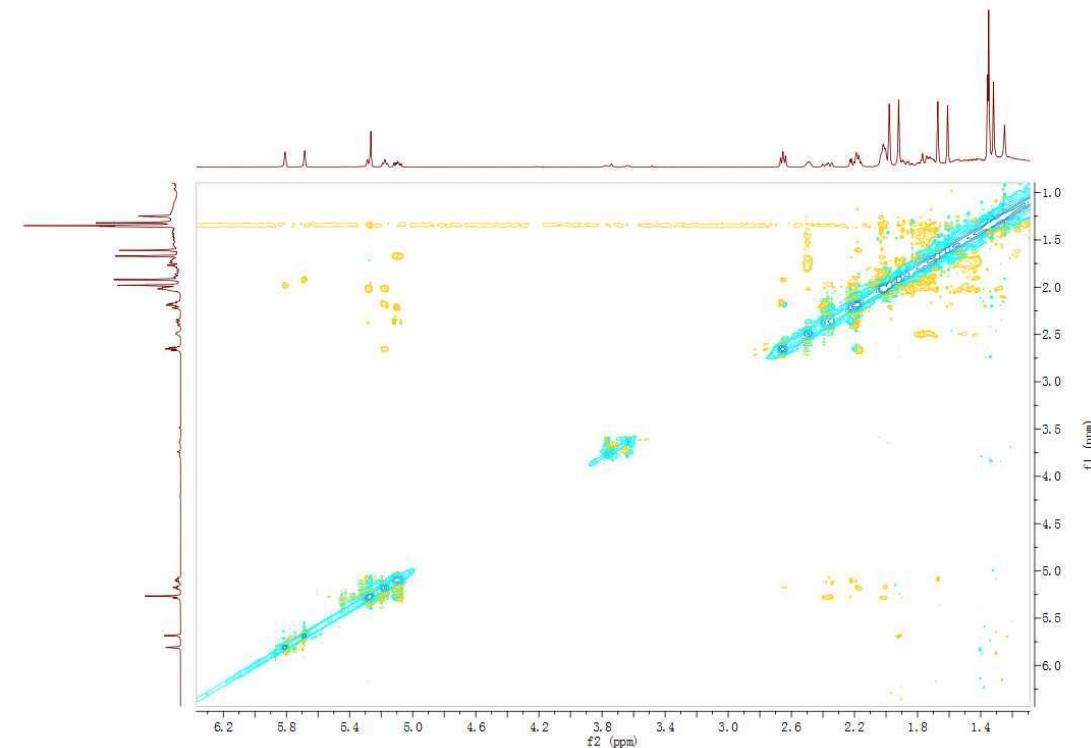


Target m/z:	685.3705	Result type:	Positive ions	Species:	[M+Na] <sup>+</sup>
Elements:	C (0-80); H (0-120); O (0-30); N (0-10); Na (0-5); Cl (0-5)				
Ion Formula	Calculated m/z			PPM Error	
C <sub>40</sub> H <sub>52</sub> NaO <sub>8</sub>	685.3711			0.79	

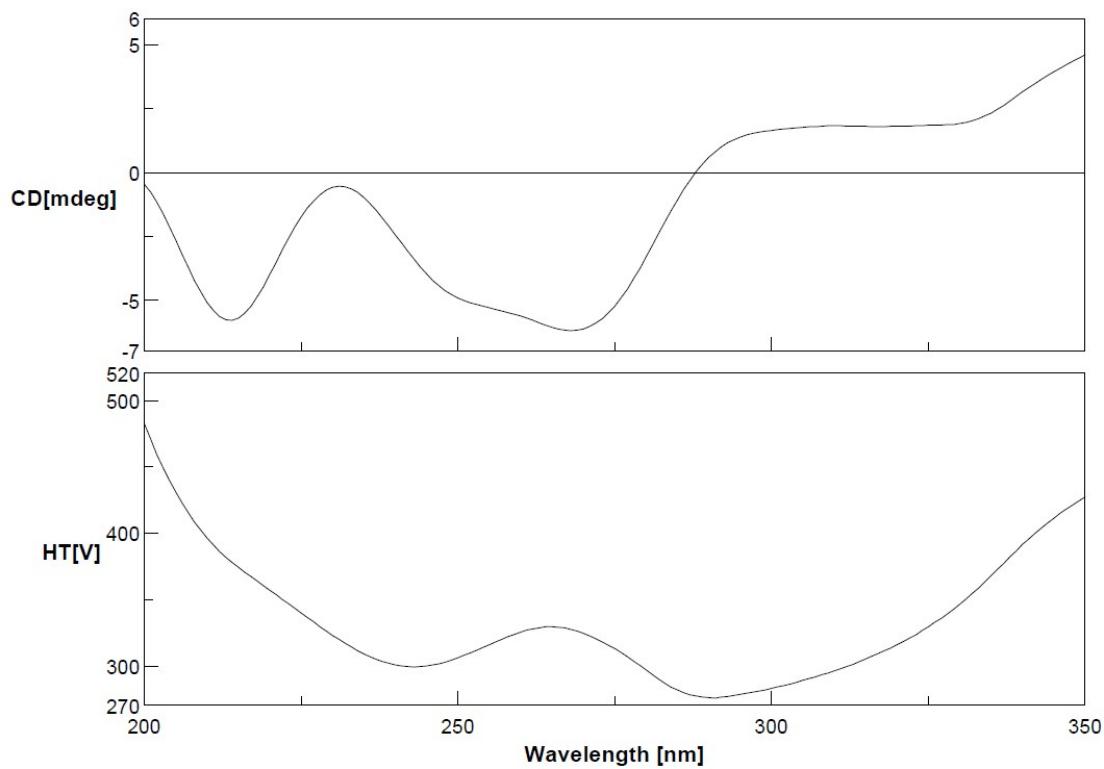
S42. HRESIMS spectrum of compound aphanamene I (7) in CH<sub>3</sub>OH



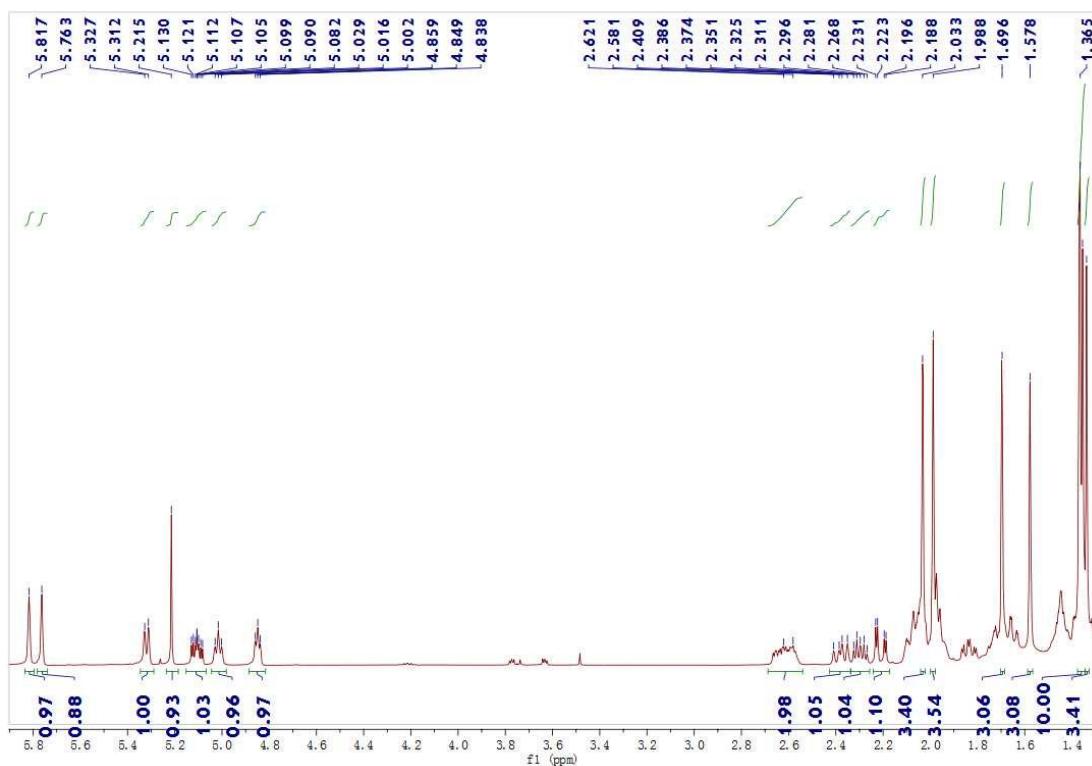
S43.  $^1\text{H}$  NMR spectrum of compound aphanamene J (**8**) in  $\text{CDCl}_3$



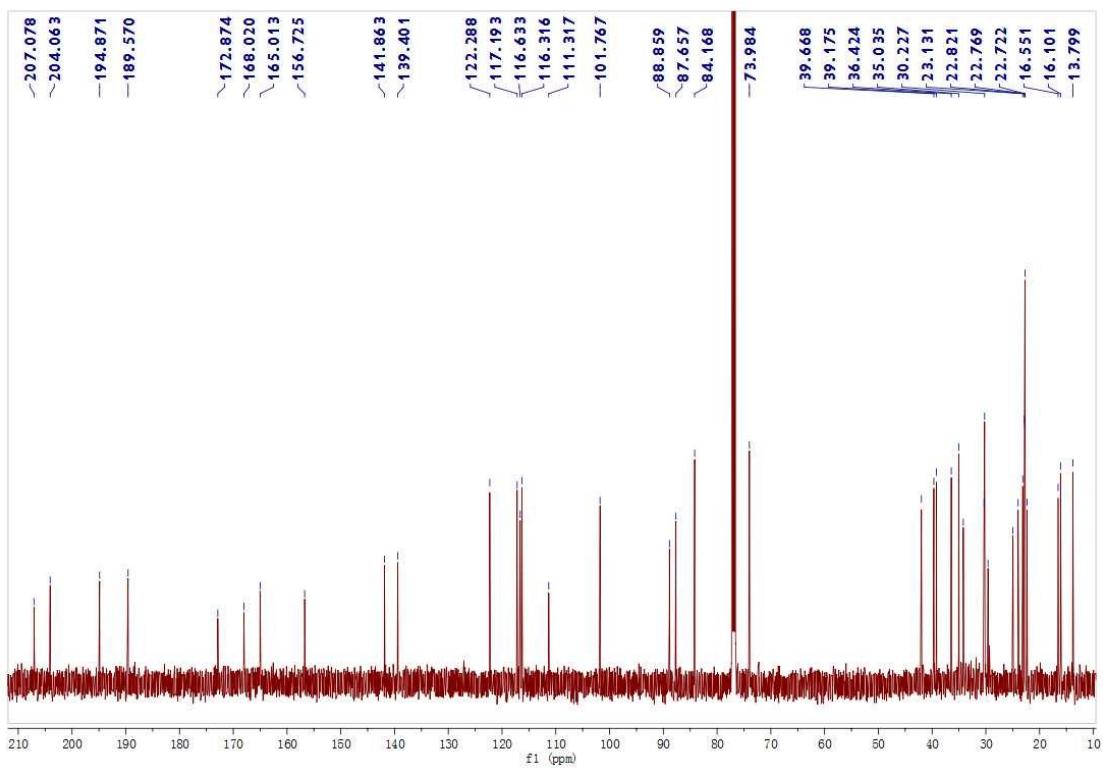
S44. ROESY spectrum of compound aphanamene J (**8**) in  $\text{CDCl}_3$



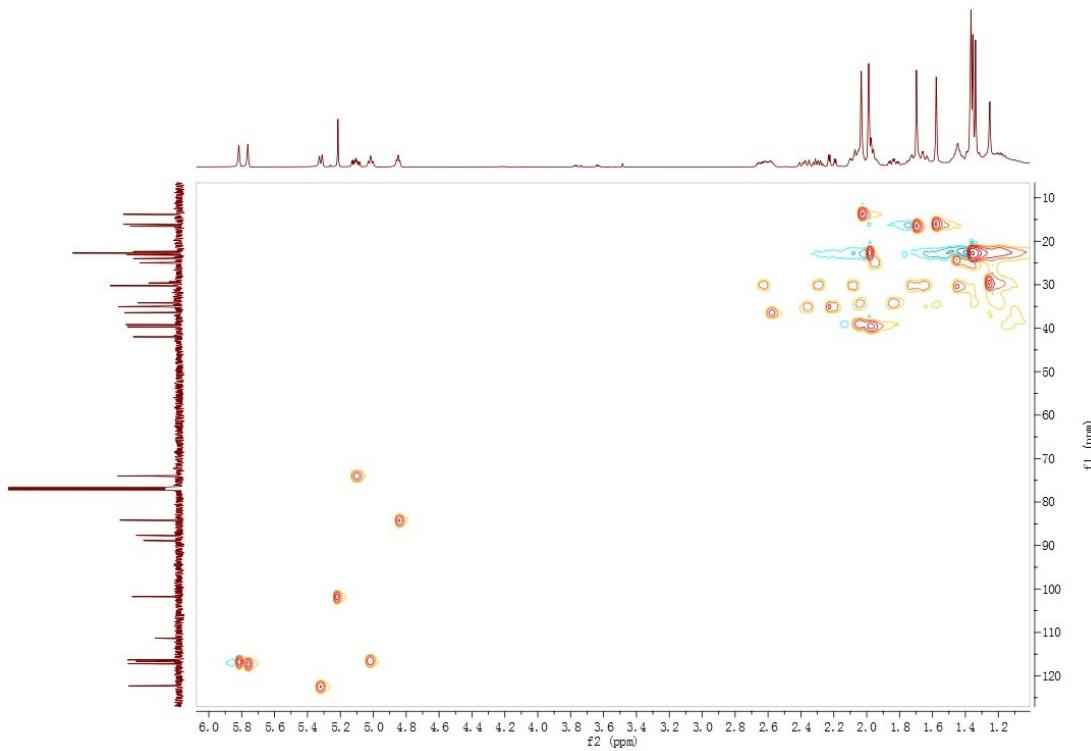
S45. CD spectrum of compound aphanamene J (**8**) in  $\text{CH}_3\text{OH}$



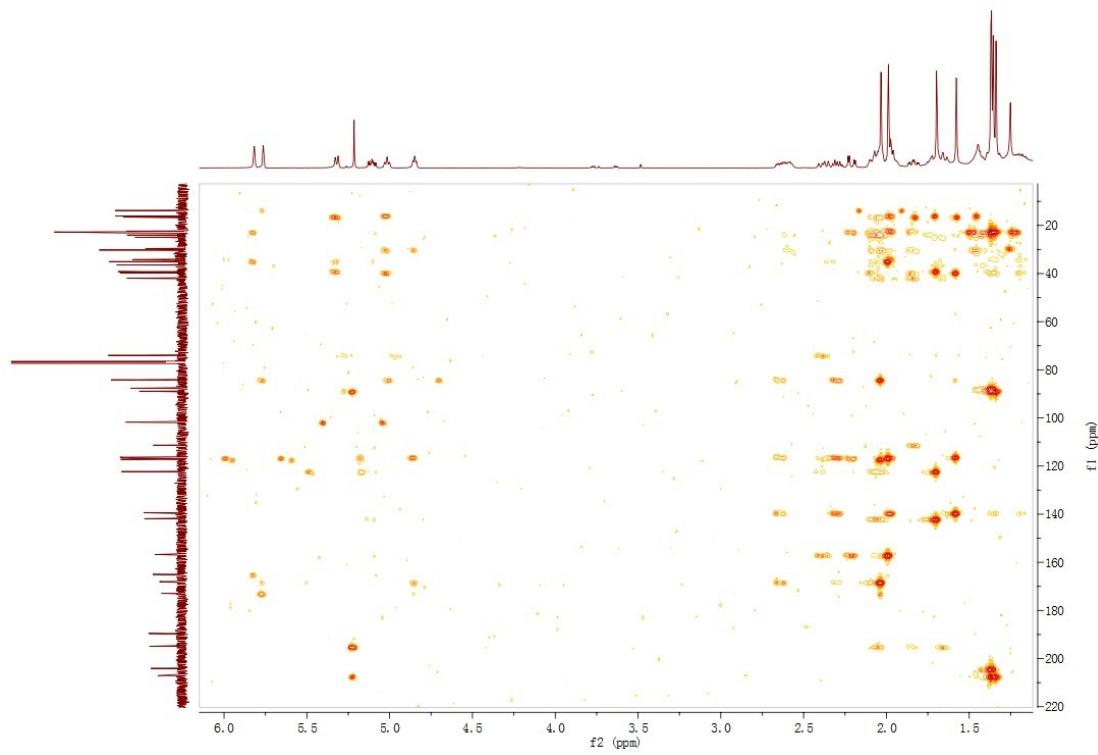
S46.  $^1\text{H}$  NMR spectrum of compound aphanamene K (**9**) in  $\text{CDCl}_3$



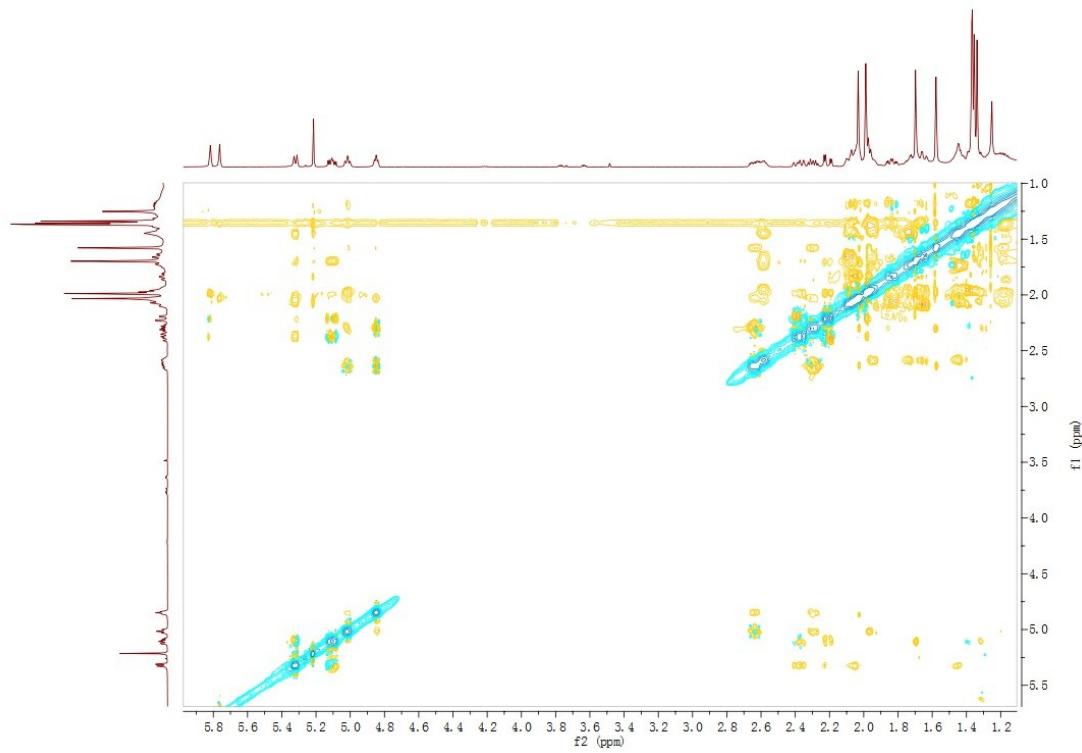
S47.  $^{13}\text{C}$  NMR spectrum of compound aphanamene K (**9**) in  $\text{CDCl}_3$



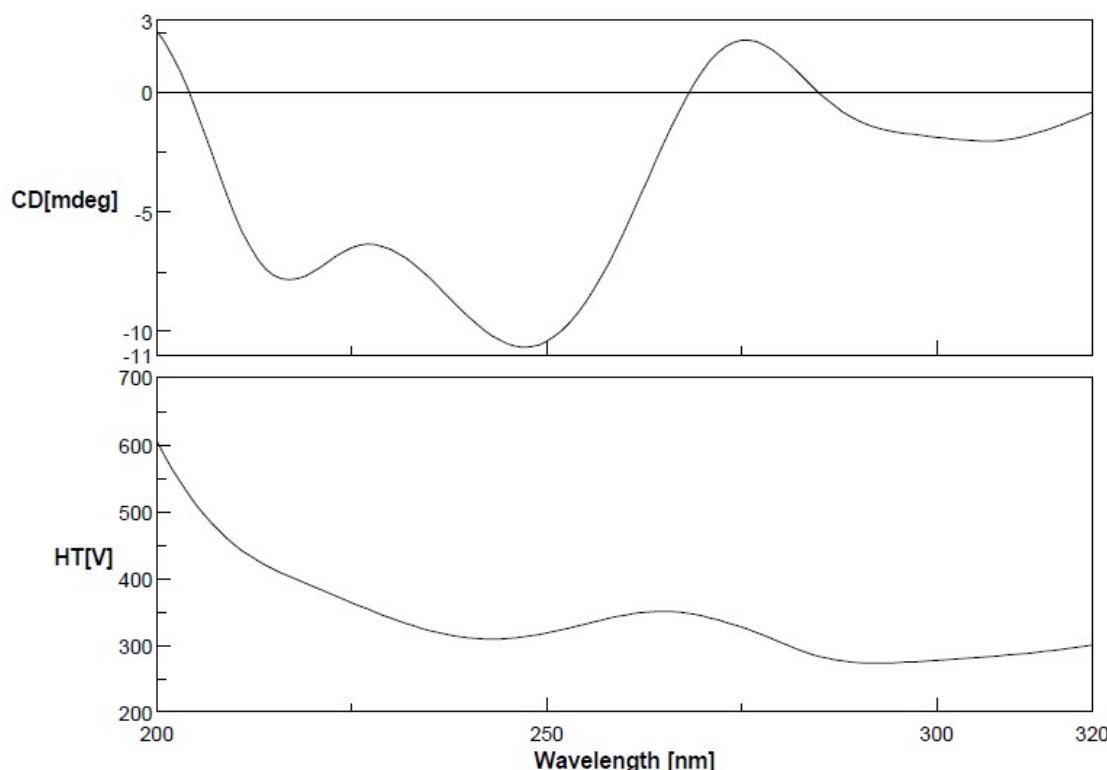
S48. HSQC spectrum of compound aphanamene K (**9**) in  $\text{CDCl}_3$



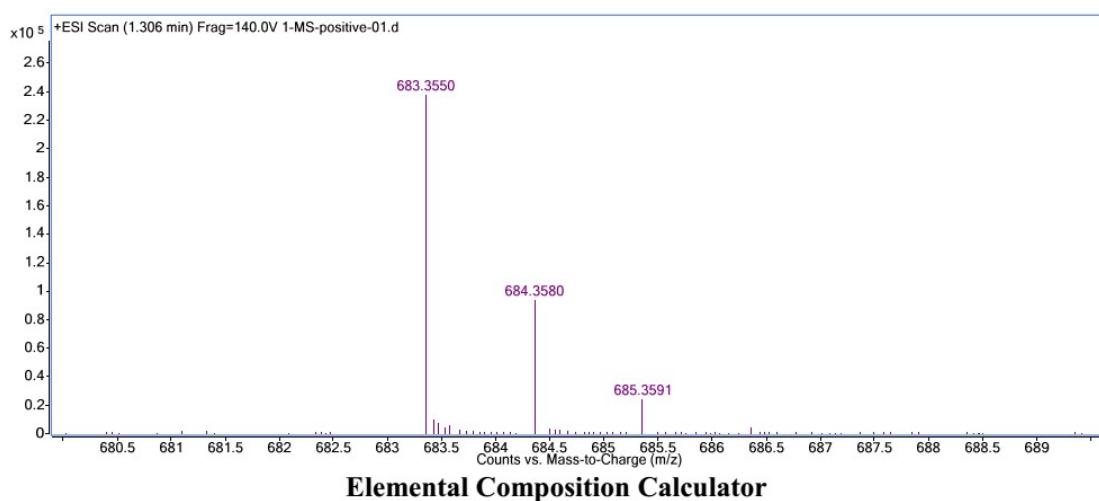
S49. HMBC spectrum of compound aphanamene K (**9**) in  $\text{CDCl}_3$



S50. ROESY spectrum of compound aphanamene K (**9**) in  $\text{CDCl}_3$

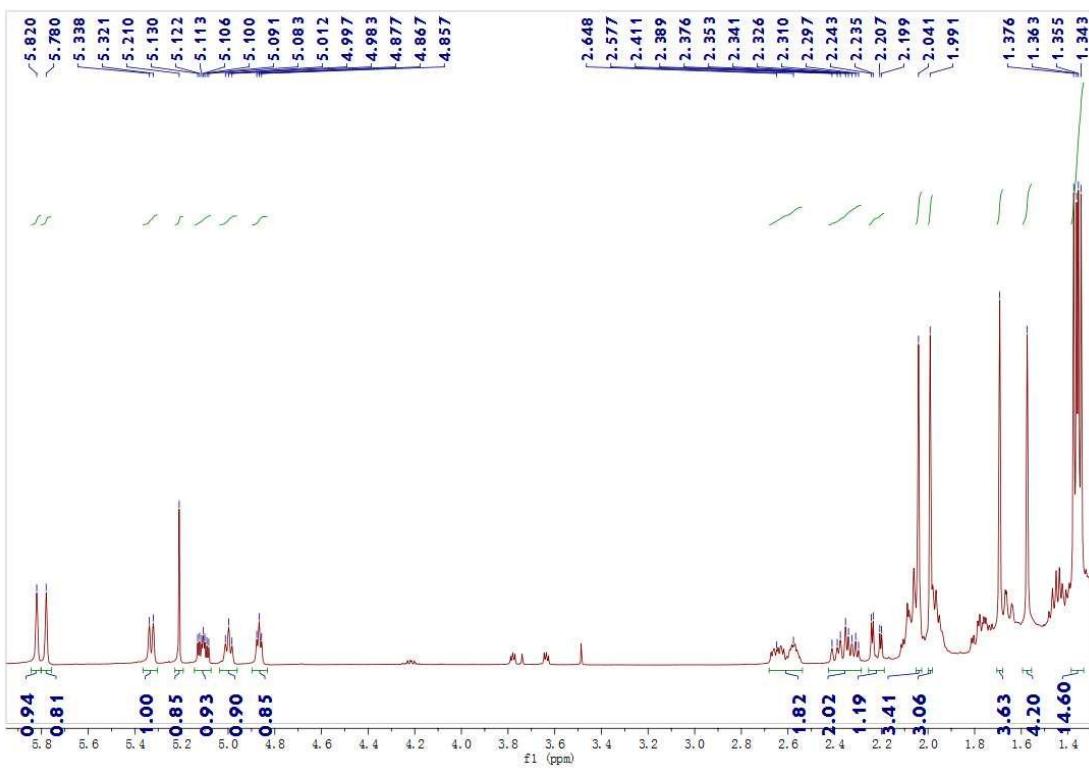


S51. CD spectrum of compound aphanamene K (**9**) in CH<sub>3</sub>OH

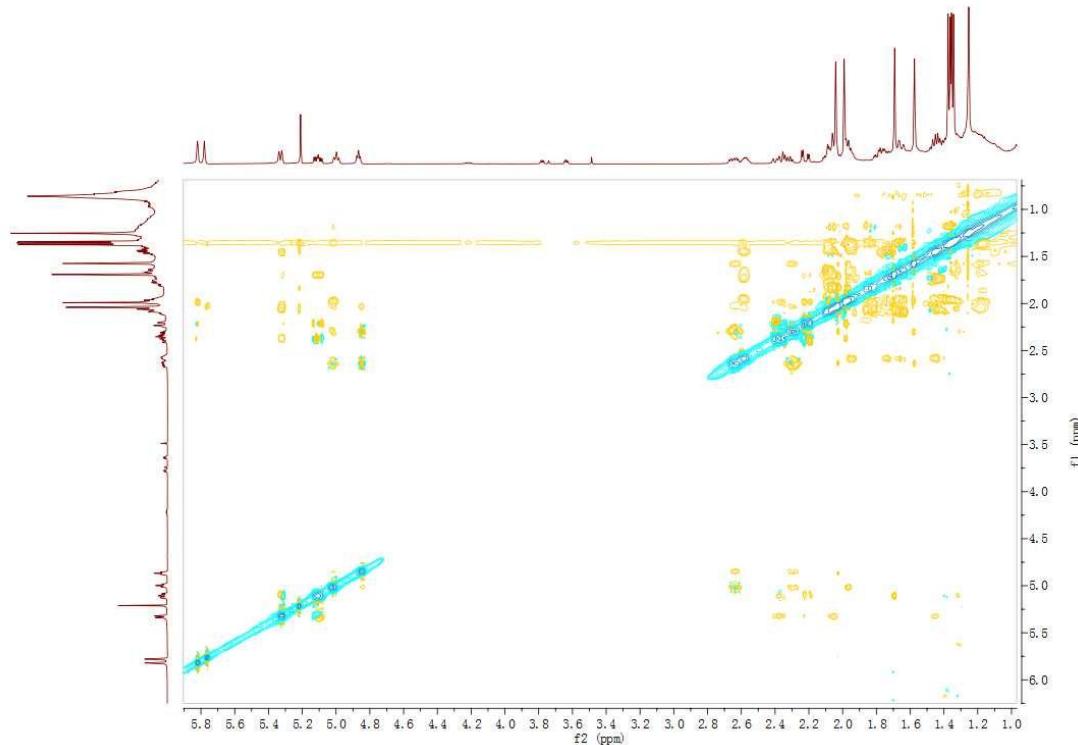


Target m/z:	683.3550	Result type:	Positive ions	Species:	[M+Na] <sup>+</sup>
Elements:	C (0-80); H (0-120); O (0-30); N (0-10); Na (0-5); Cl (0-5)				
Ion Formula	Calculated m/z		PPM Error		
C <sub>40</sub> H <sub>52</sub> NaO <sub>8</sub>	683.3554		0.62		

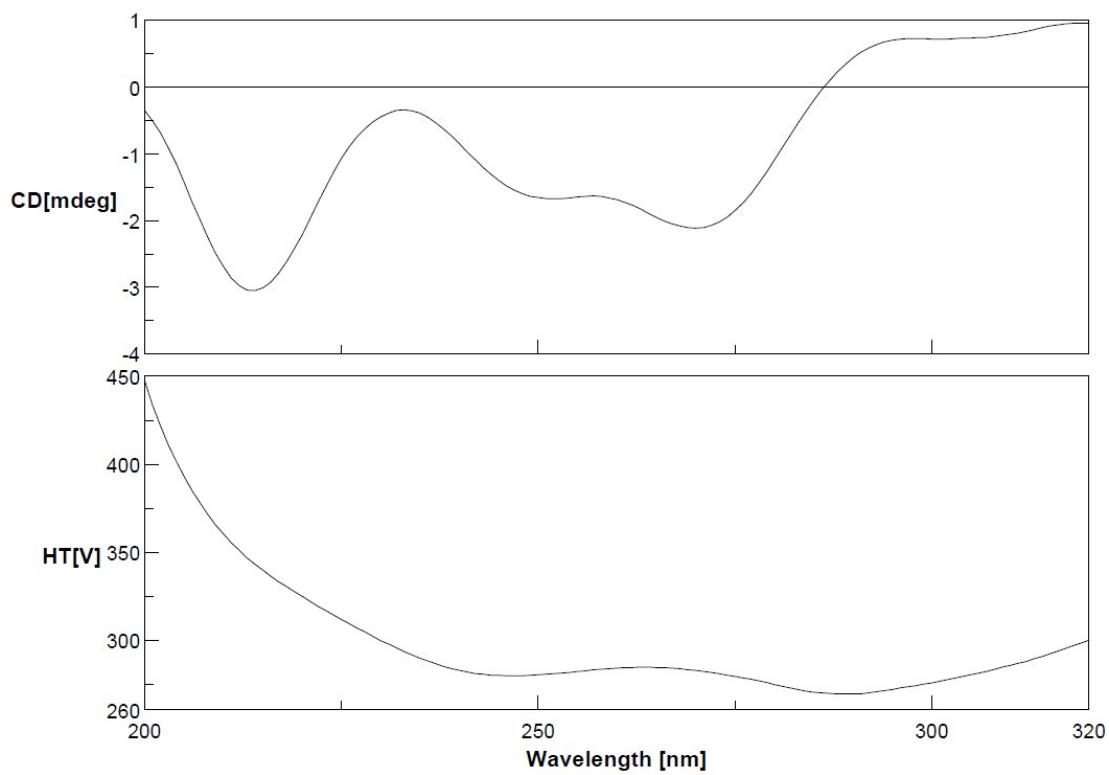
S52. HRESIMS spectrum of compound aphanamene K (**9**) in CH<sub>3</sub>OH



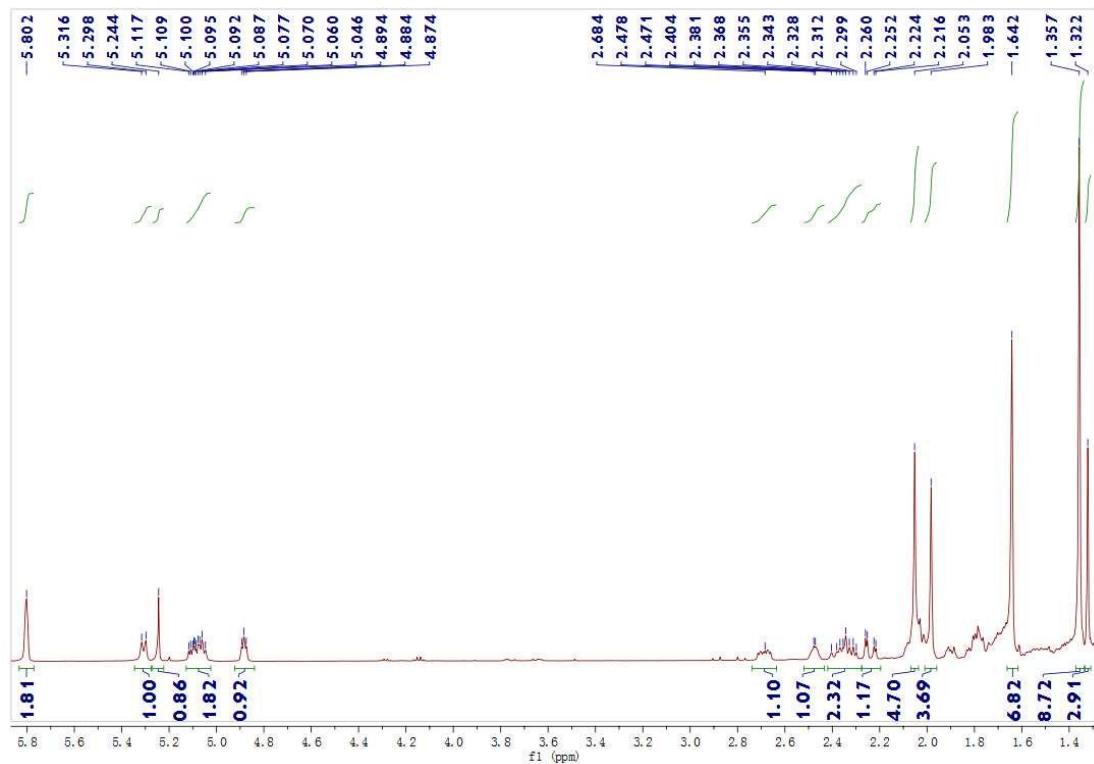
S53.  $^1\text{H}$  NMR spectrum of compound aphanamene L (**10**) in  $\text{CDCl}_3$



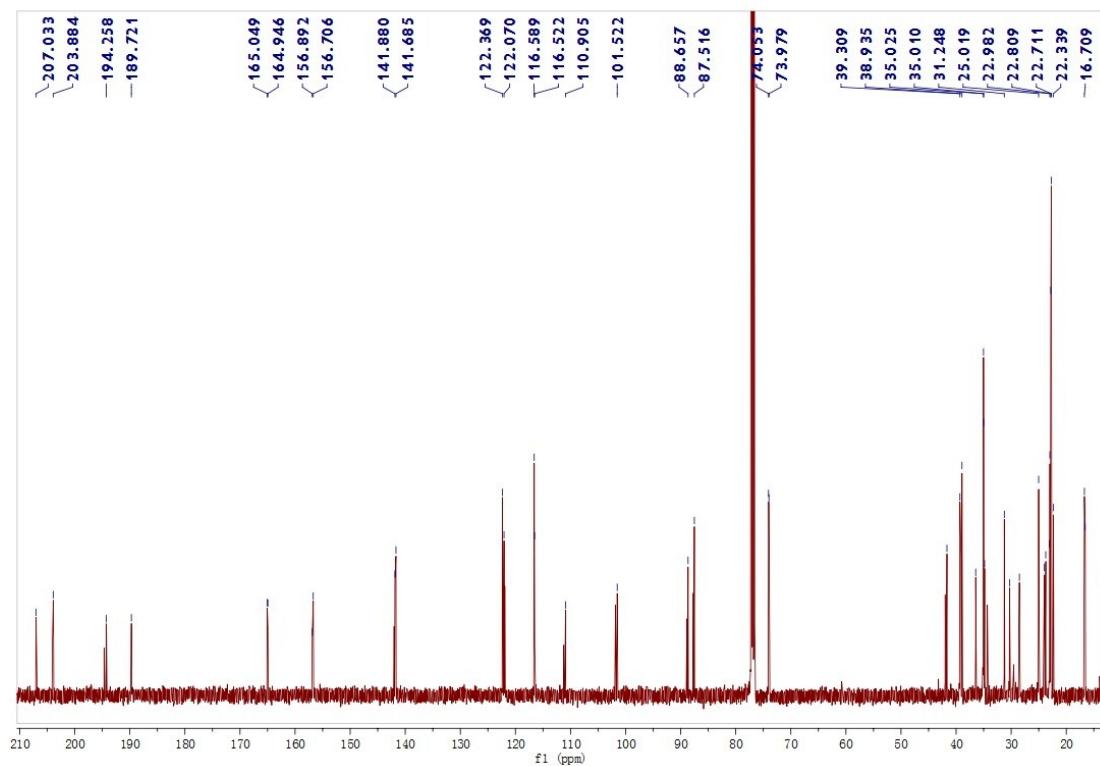
S54. ROESY spectrum of compound aphanamene L (**10**) in  $\text{CDCl}_3$



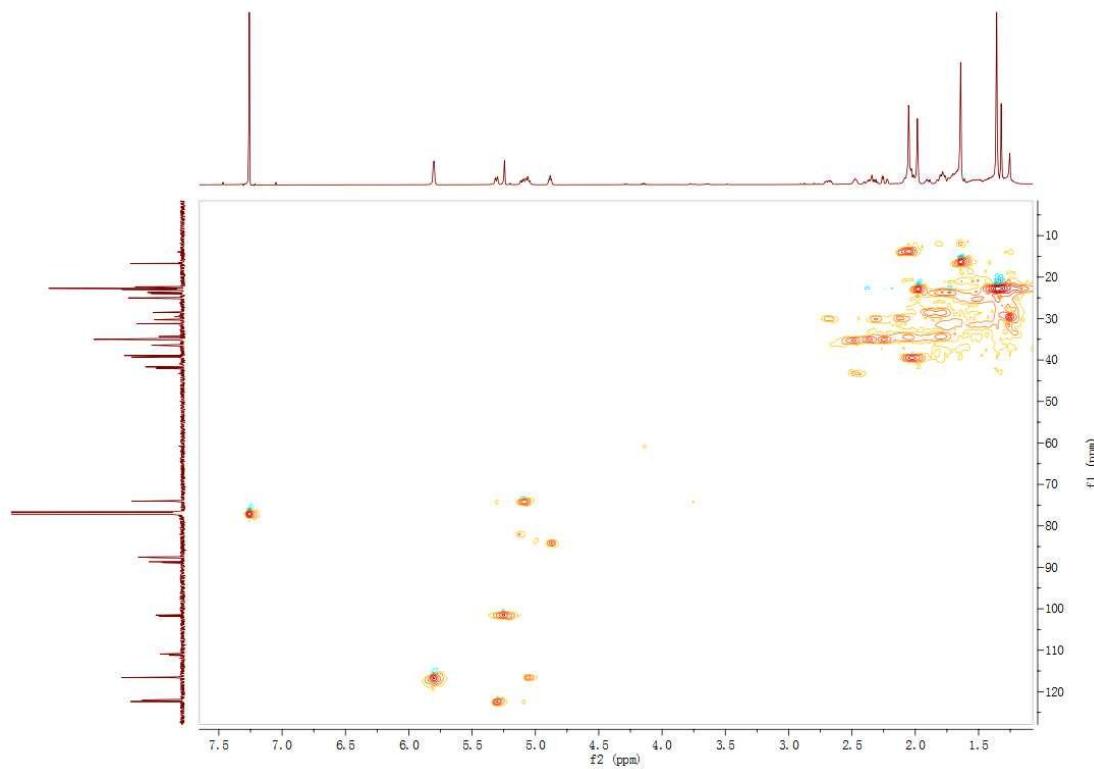
S55. CD spectrum of compound aphanamene L (**10**) in CH<sub>3</sub>OH



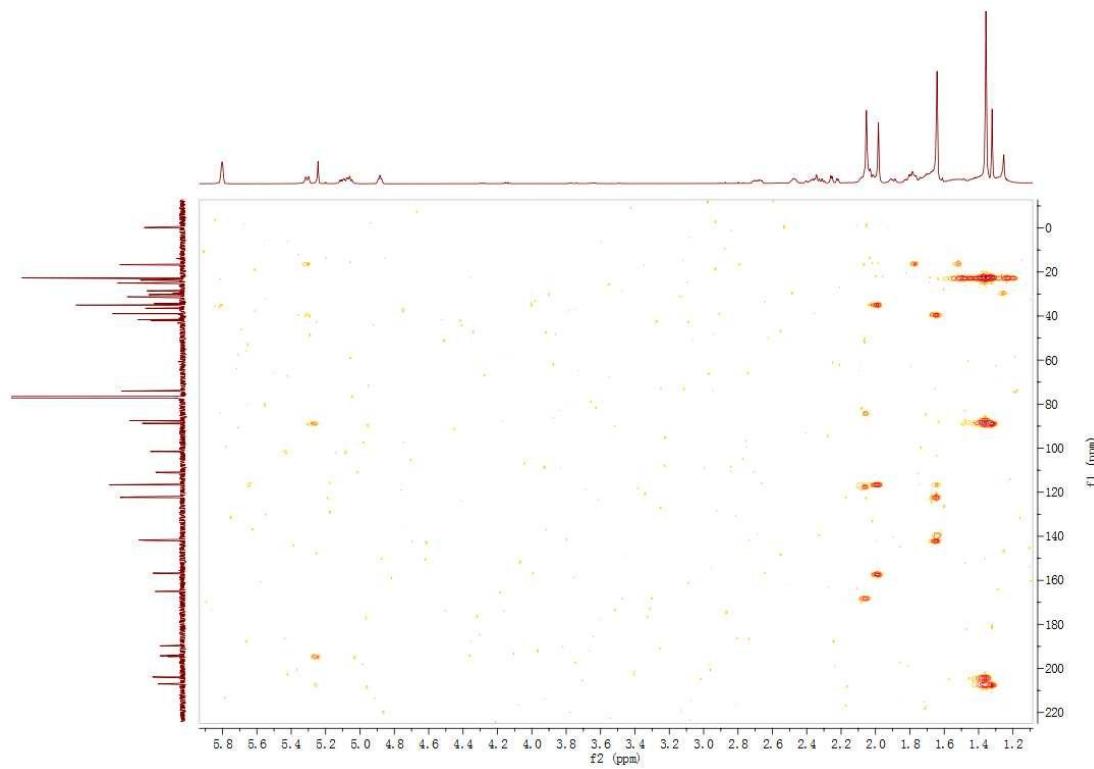
S56. <sup>1</sup>H NMR spectrum of compound aphanamene M (**11**) in CDCl<sub>3</sub>



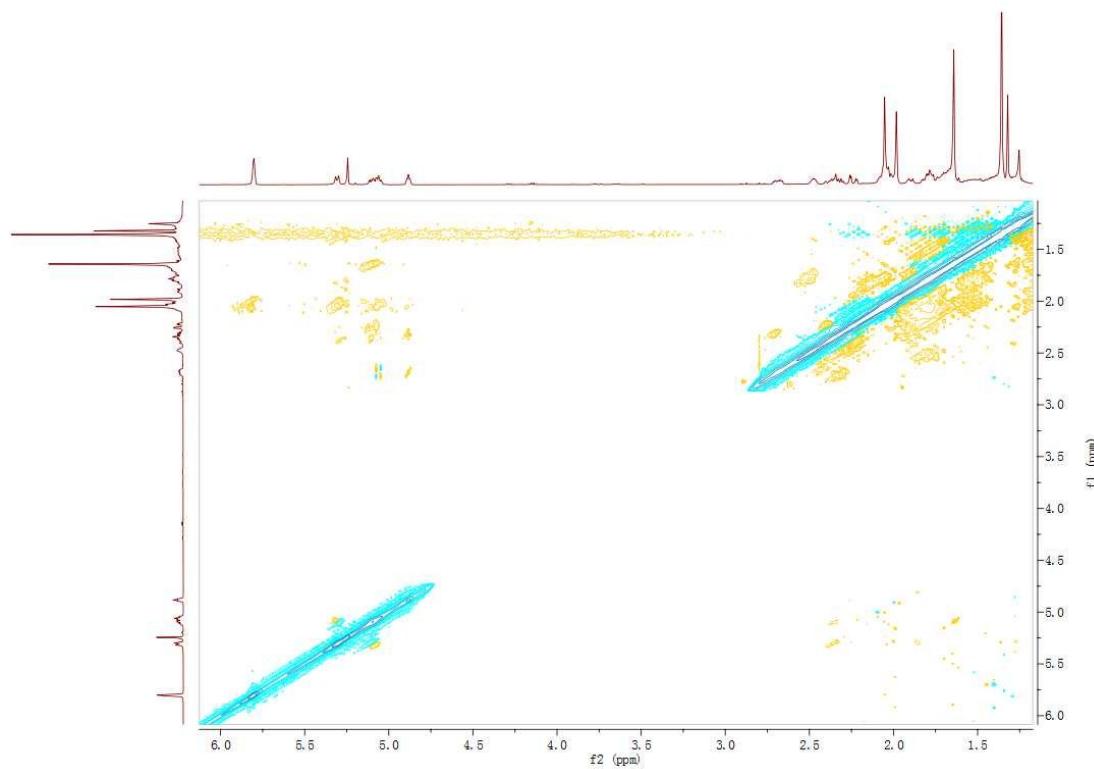
S57.  $^{13}\text{C}$  NMR spectrum of compound aphanamene M (**11**) in  $\text{CDCl}_3$



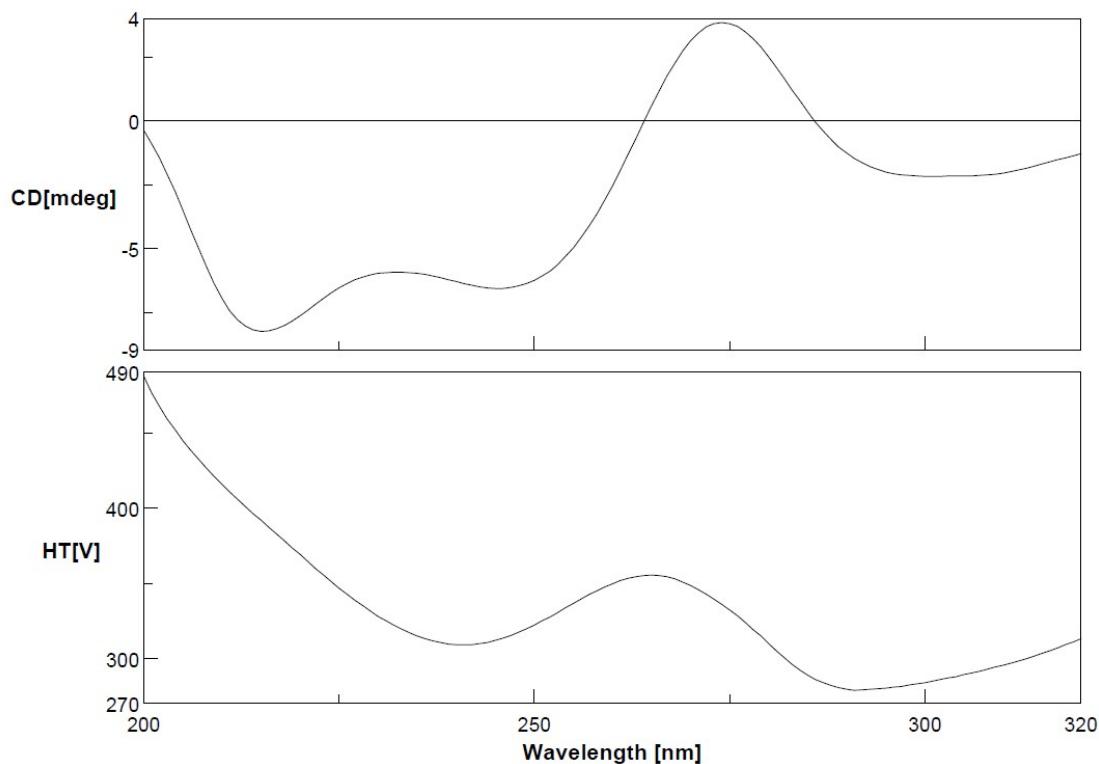
S58. HSQC spectrum of compound aphanamene M (**11**) in  $\text{CDCl}_3$



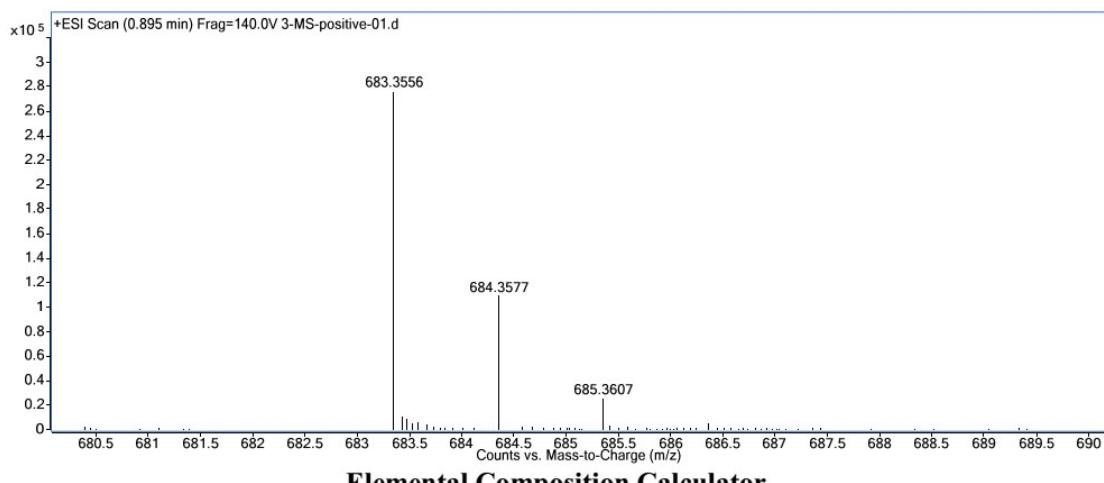
S59. HMBC spectrum of compound aphanamene M (**11**) in  $\text{CDCl}_3$



S60. ROESY spectrum of compound aphanamene M (**11**) in  $\text{CDCl}_3$

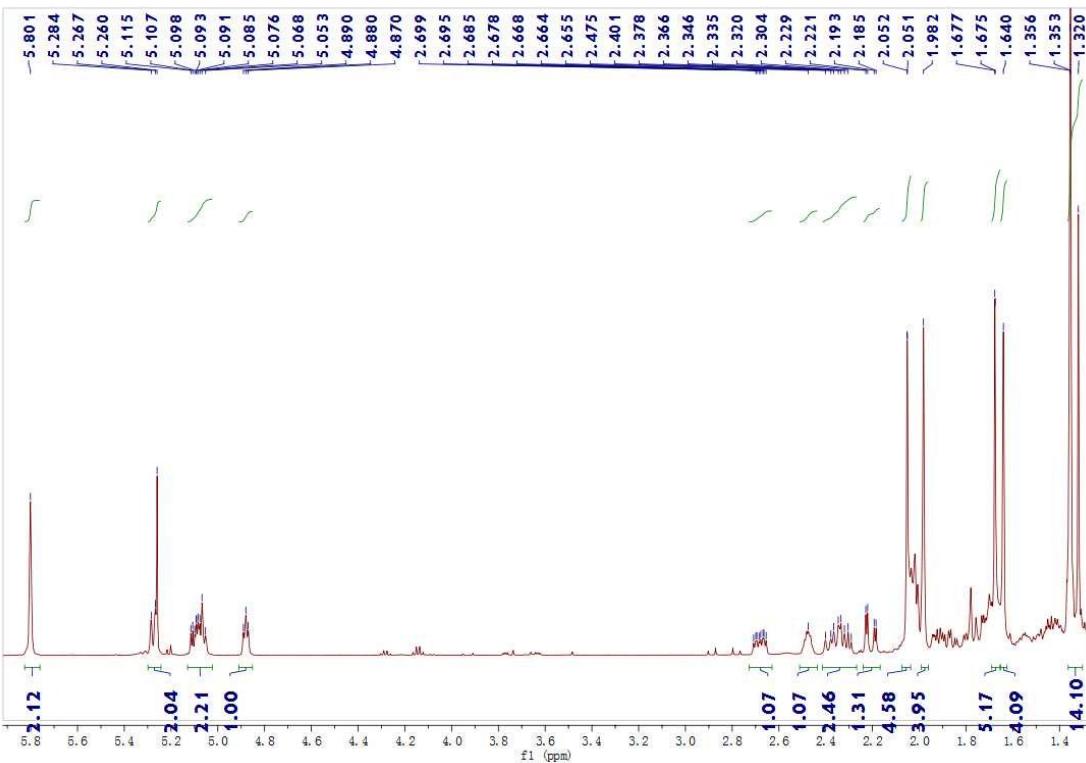


S61. CD spectrum of compound aphanamene M (**11**) in CH<sub>3</sub>OH

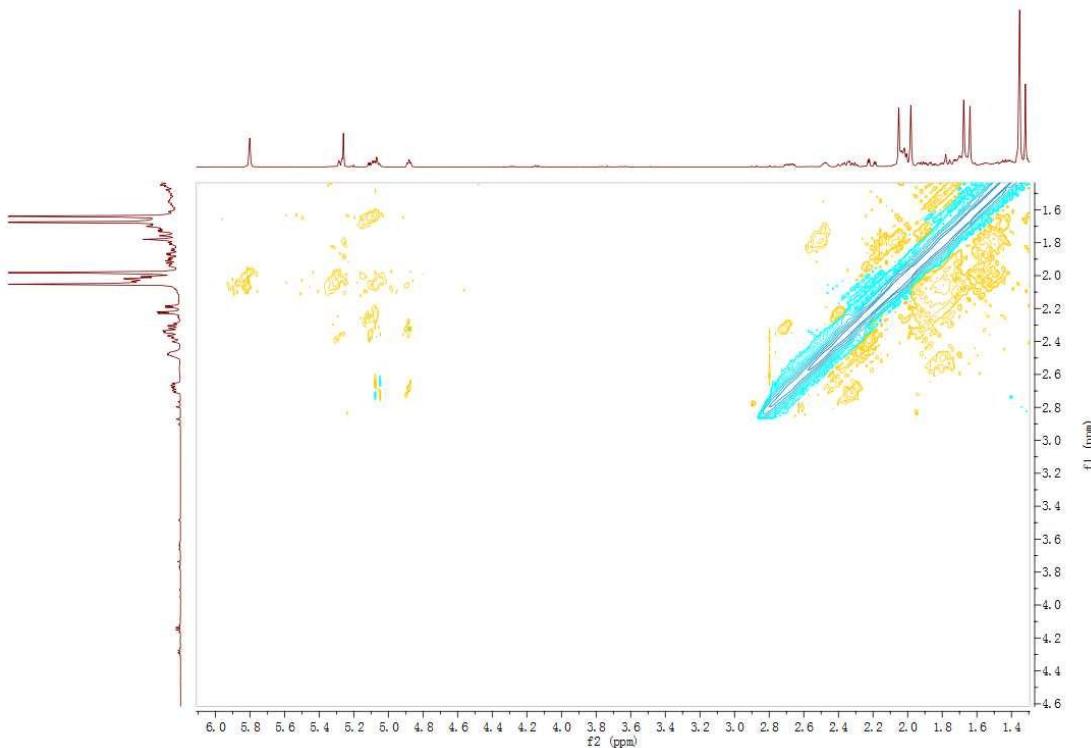


Target m/z:	683.3556	Result type:	Positive ions	Species:	[M+Na] <sup>+</sup>
Elements:	C (0-80); H (0-120); O (0-30); N (0-10); Na (0-5); Cl (0-5)				
Ion Formula	Calculated m/z			PPM Error	
C <sub>40</sub> H <sub>52</sub> NaO <sub>8</sub>	683.3554			-0.21	

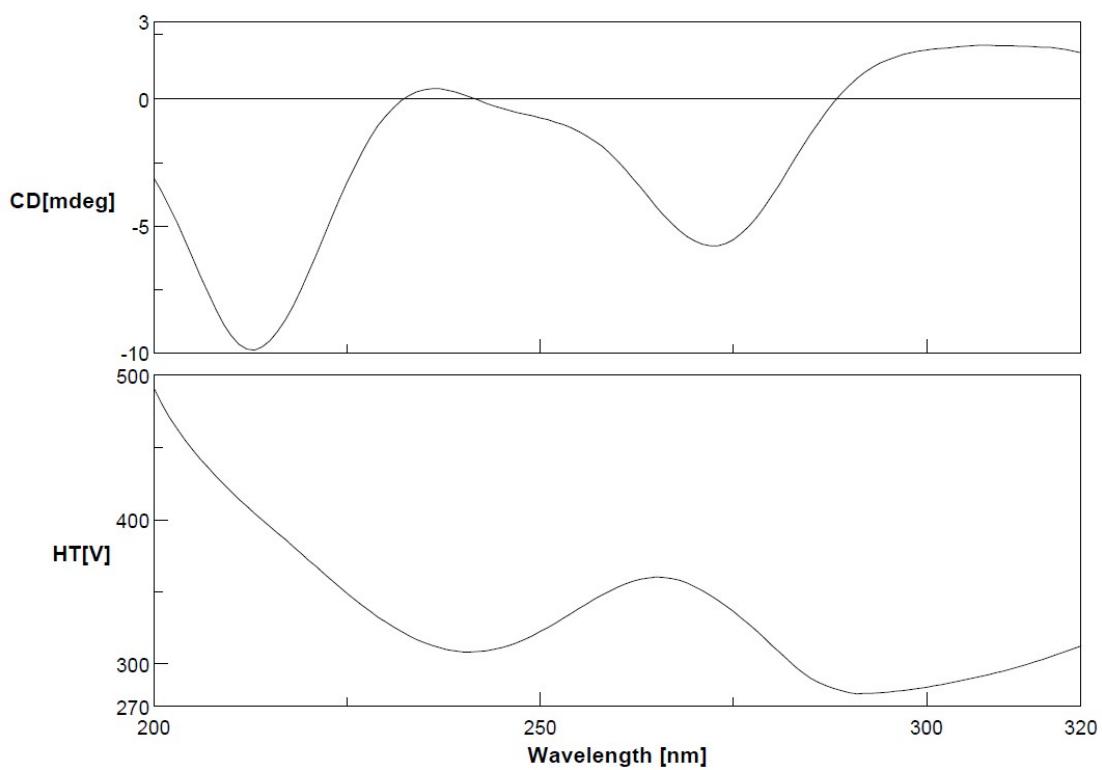
S62. HRESIMS spectrum of compound aphanamene M (**11**) in CH<sub>3</sub>OH



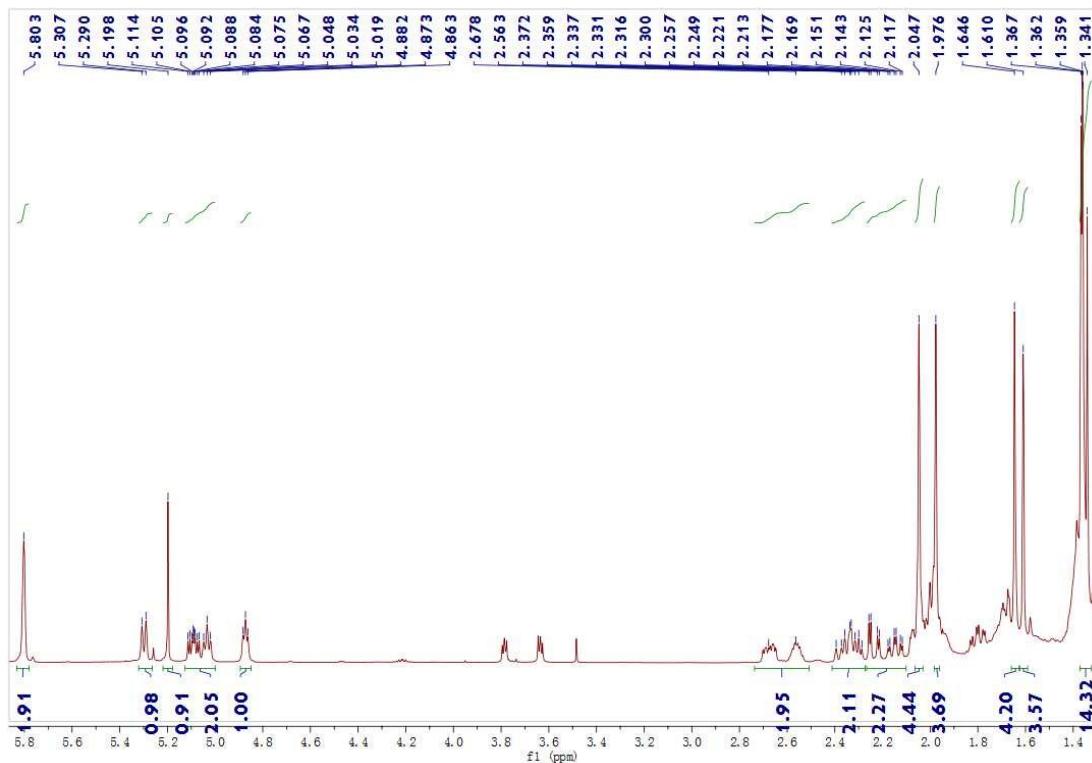
S63.  $^1\text{H}$  NMR spectrum of compound aphanamene N (**12**) in  $\text{CDCl}_3$



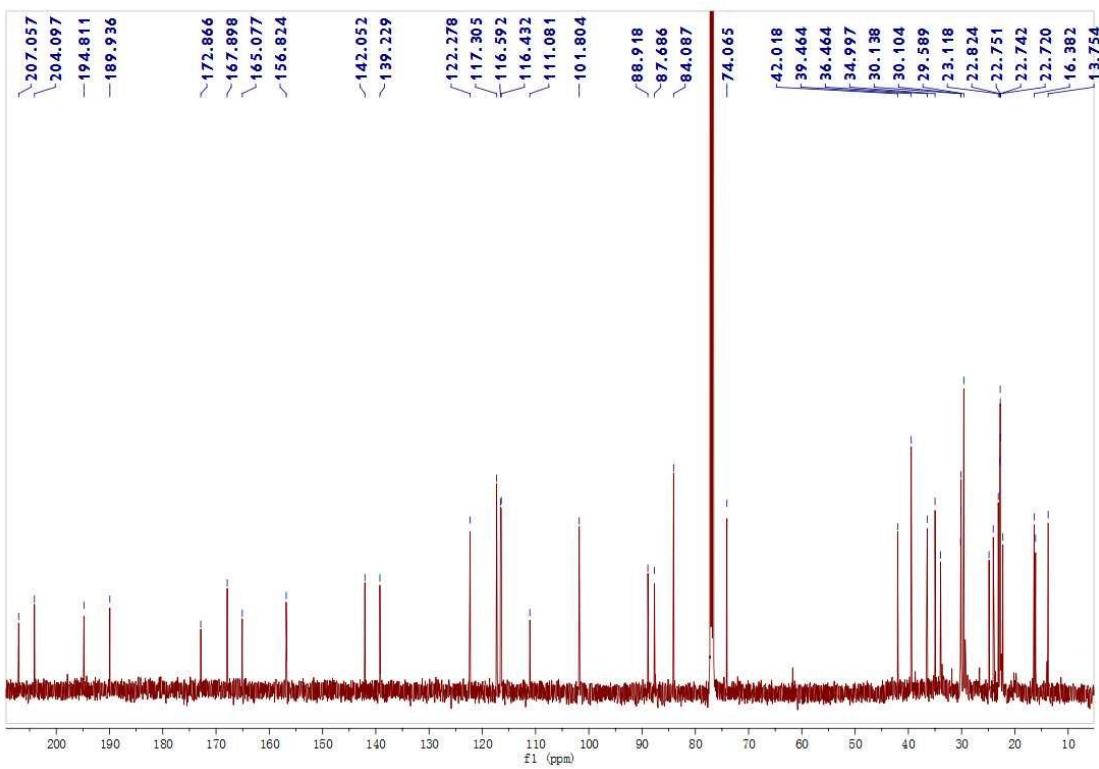
S64. ROESY spectrum of compound aphanamene N (**12**) in  $\text{CDCl}_3$



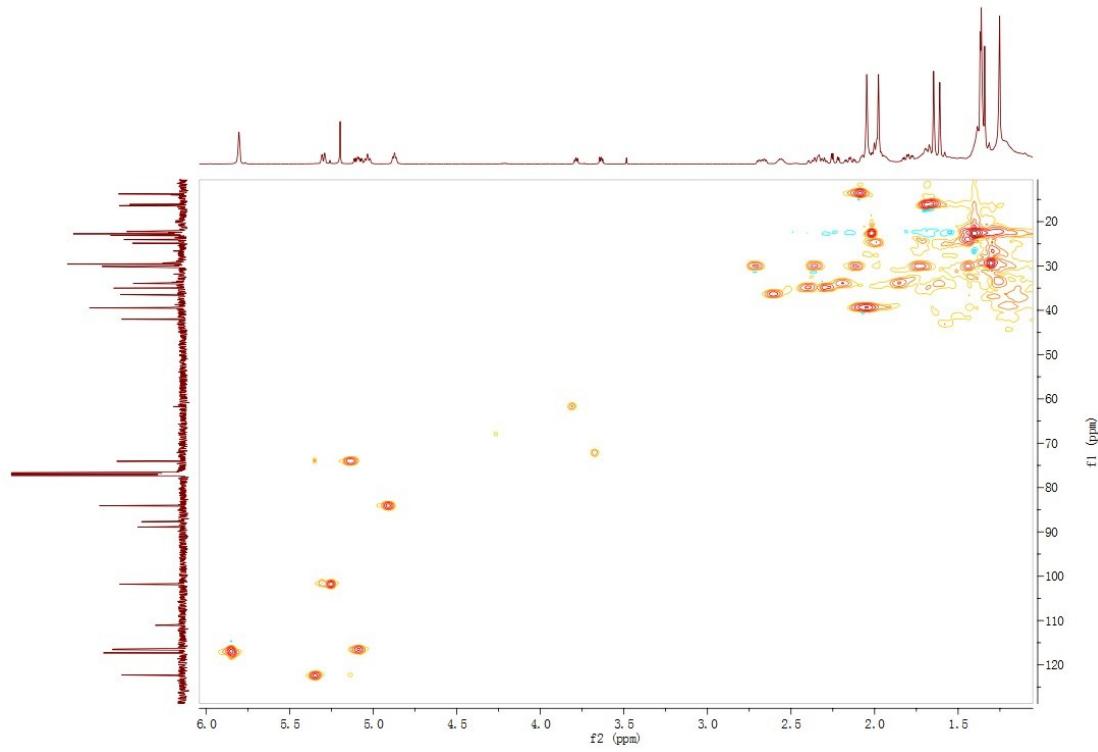
S65. CD spectrum of compound aphanamene N (**12**) in CH<sub>3</sub>OH



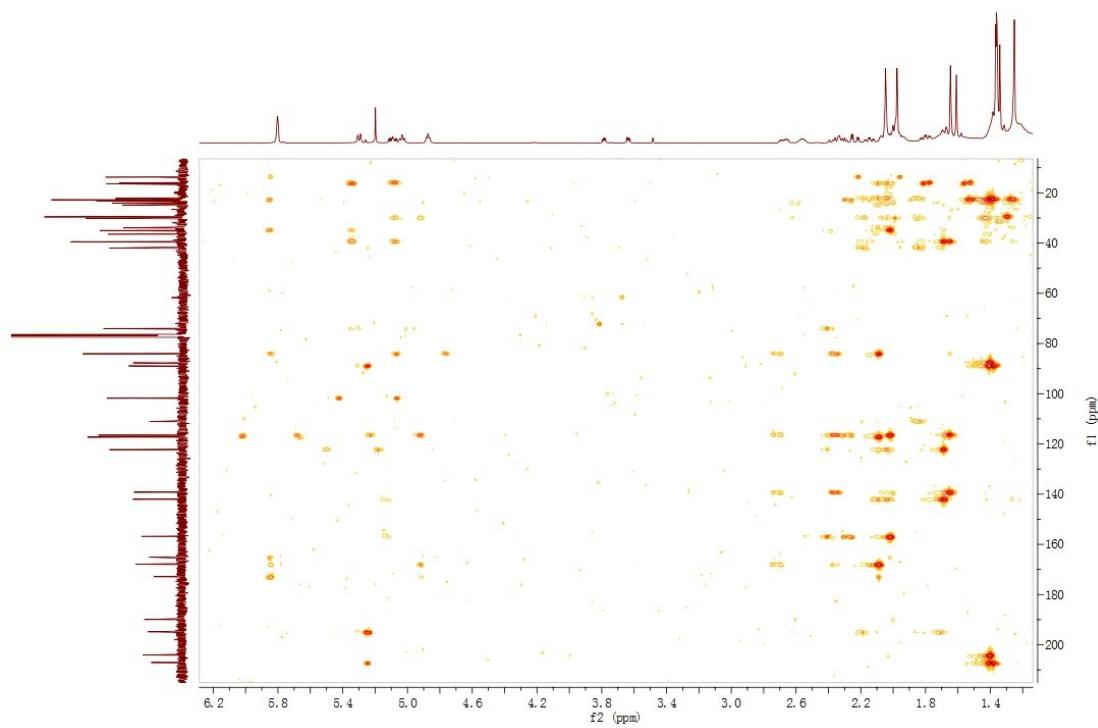
S66.  $^1\text{H}$  NMR spectrum of compound aphanamene O (**13**) in  $\text{CDCl}_3$



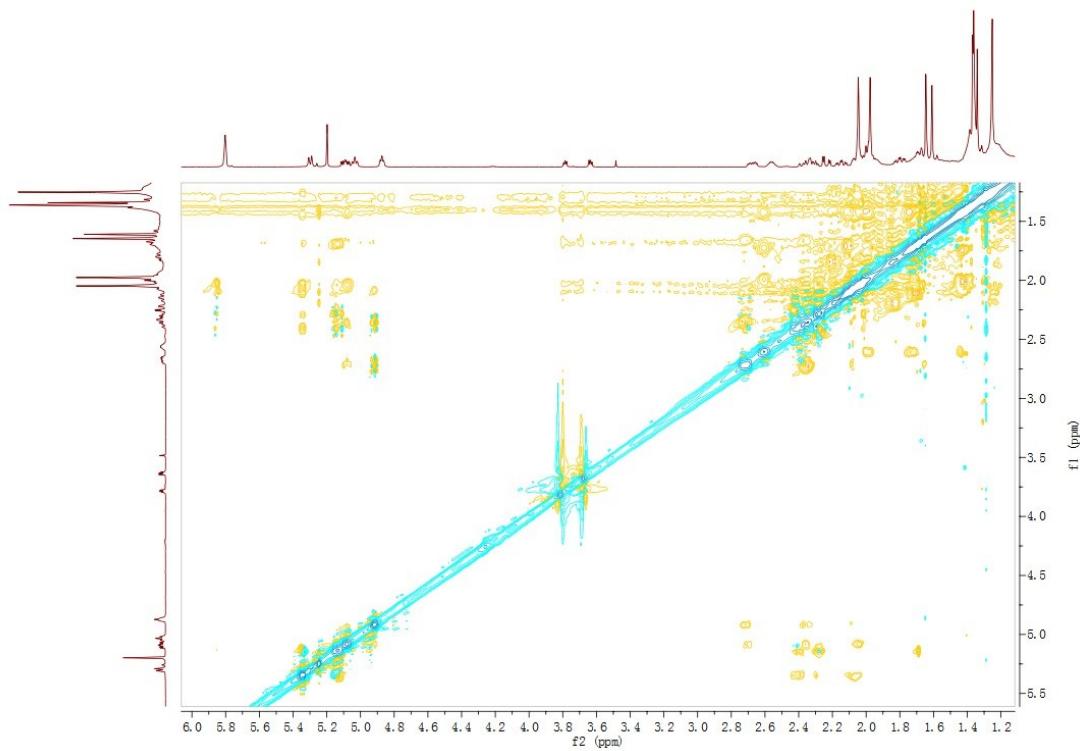
S67.  $^{13}\text{C}$  NMR spectrum of compound aphanamene O (**13**) in  $\text{CDCl}_3$



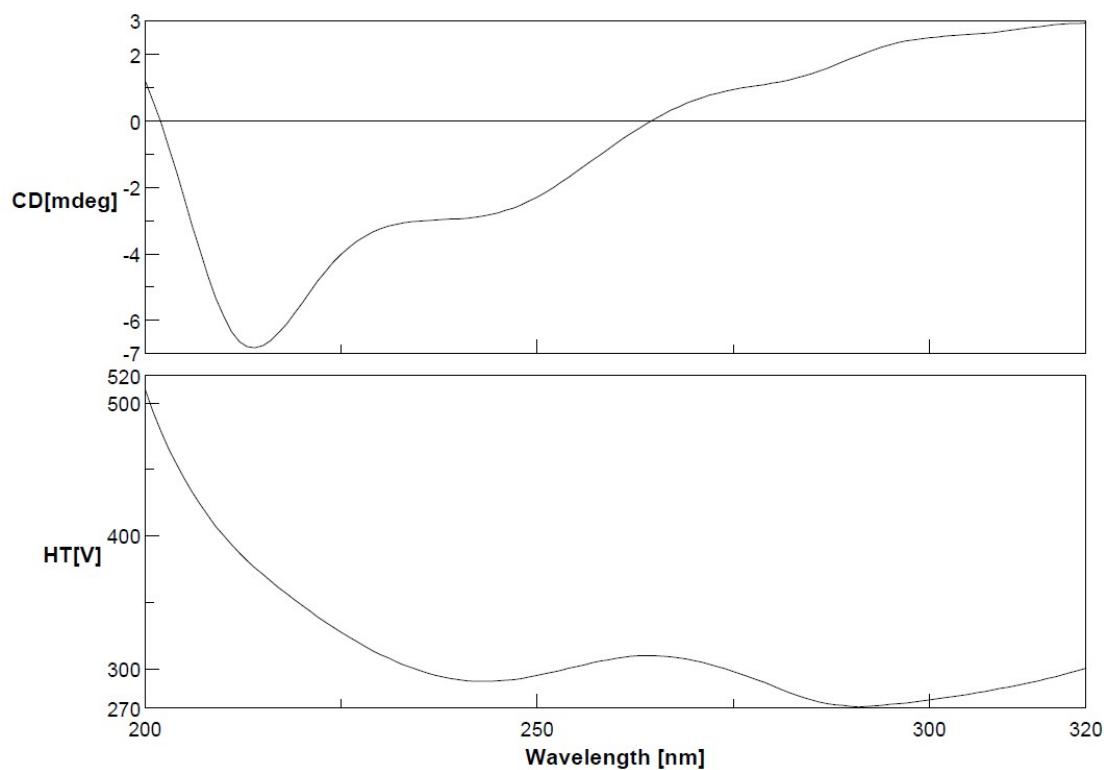
S68. HSQC spectrum of compound aphanamene O (**13**) in  $\text{CDCl}_3$



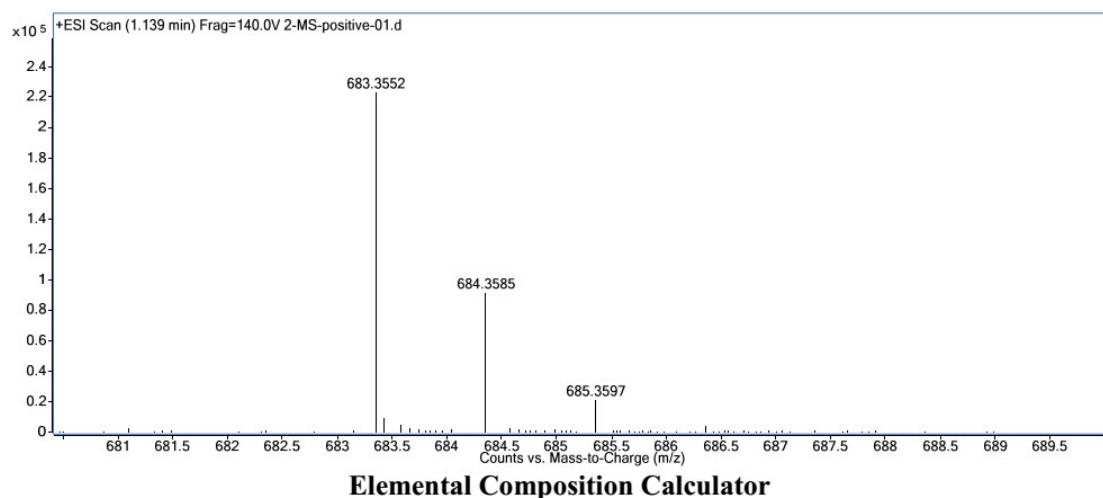
S69. HMBC spectrum of compound aphanamene O (**13**) in  $\text{CDCl}_3$



S70. ROESY spectrum of compound aphanamene O (**13**) in  $\text{CDCl}_3$

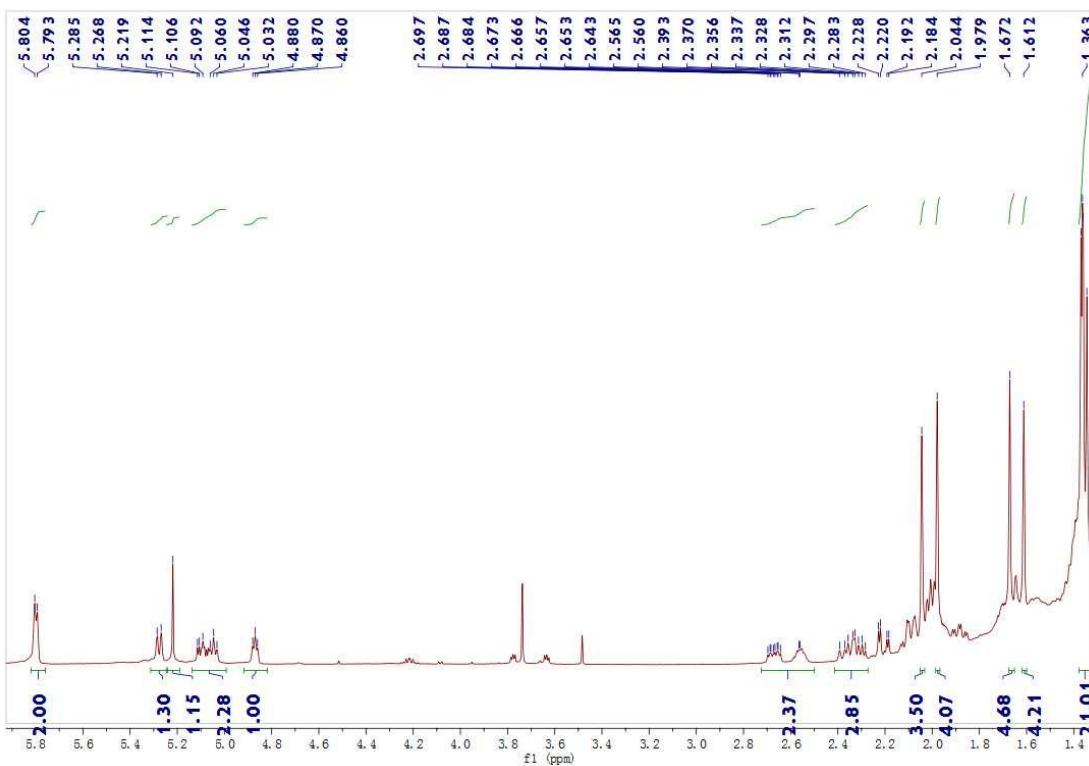


S71. CD spectrum of compound aphanamene O (**13**) in CH<sub>3</sub>OH

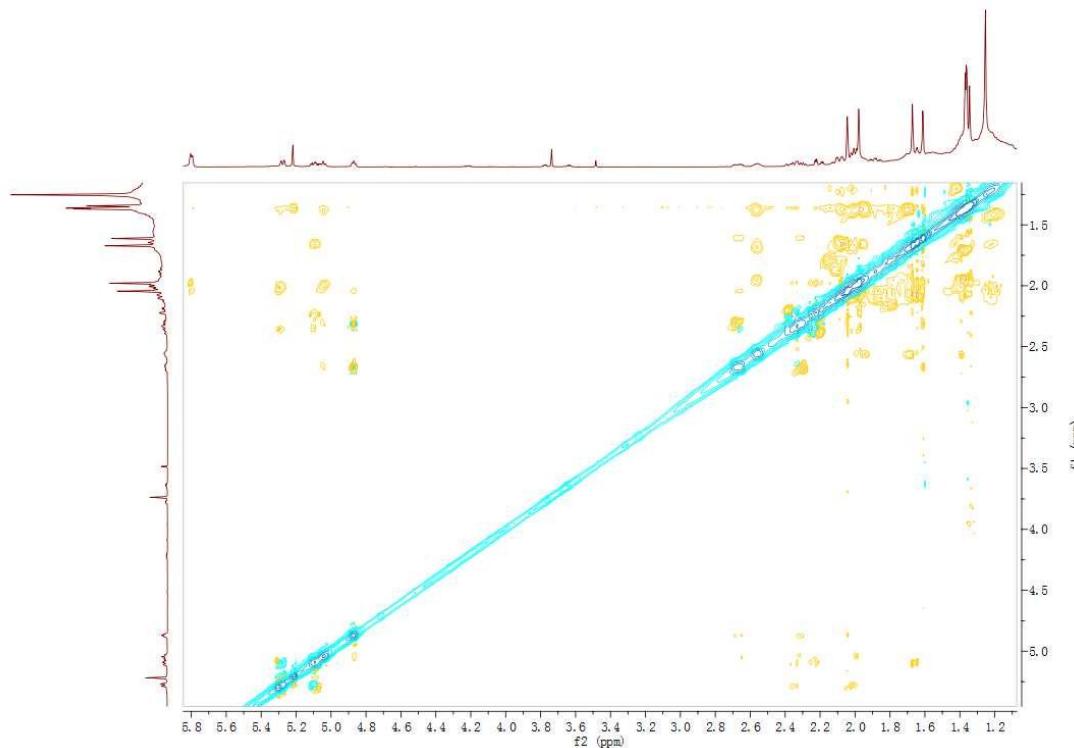


Target m/z:	683.3552	Result type:	Positive ions	Species:	[M+Na] <sup>+</sup>
Elements:	C (0-80); H (0-120); O (0-30); N (0-10); Na (0-5); Cl (0-5)				
Ion Formula	Calculated m/z			PPM Error	
C40H52NaO8	683.3554			0.41	

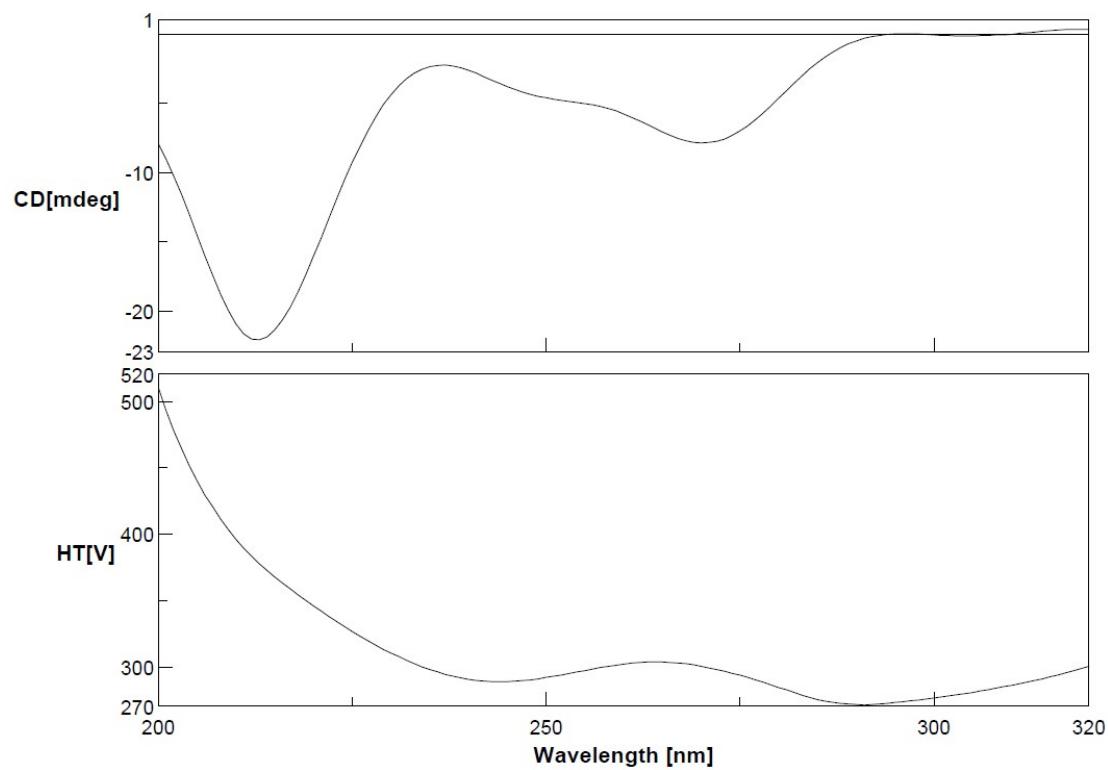
S72. HRESIMS spectrum of compound aphanamene O (**13**) in CH<sub>3</sub>OH



S73.  $^1\text{H}$  NMR spectrum of compound aphanamene P (**14**) in  $\text{CDCl}_3$



S74. ROESY spectrum of compound aphanamene P (**14**) in  $\text{CDCl}_3$



S75. CD spectrum of compound aphanamene P (**14**) in CH<sub>3</sub>OH