

Supporting Information

Figure S1. ^1H -NMR spectrum of compound **1**.

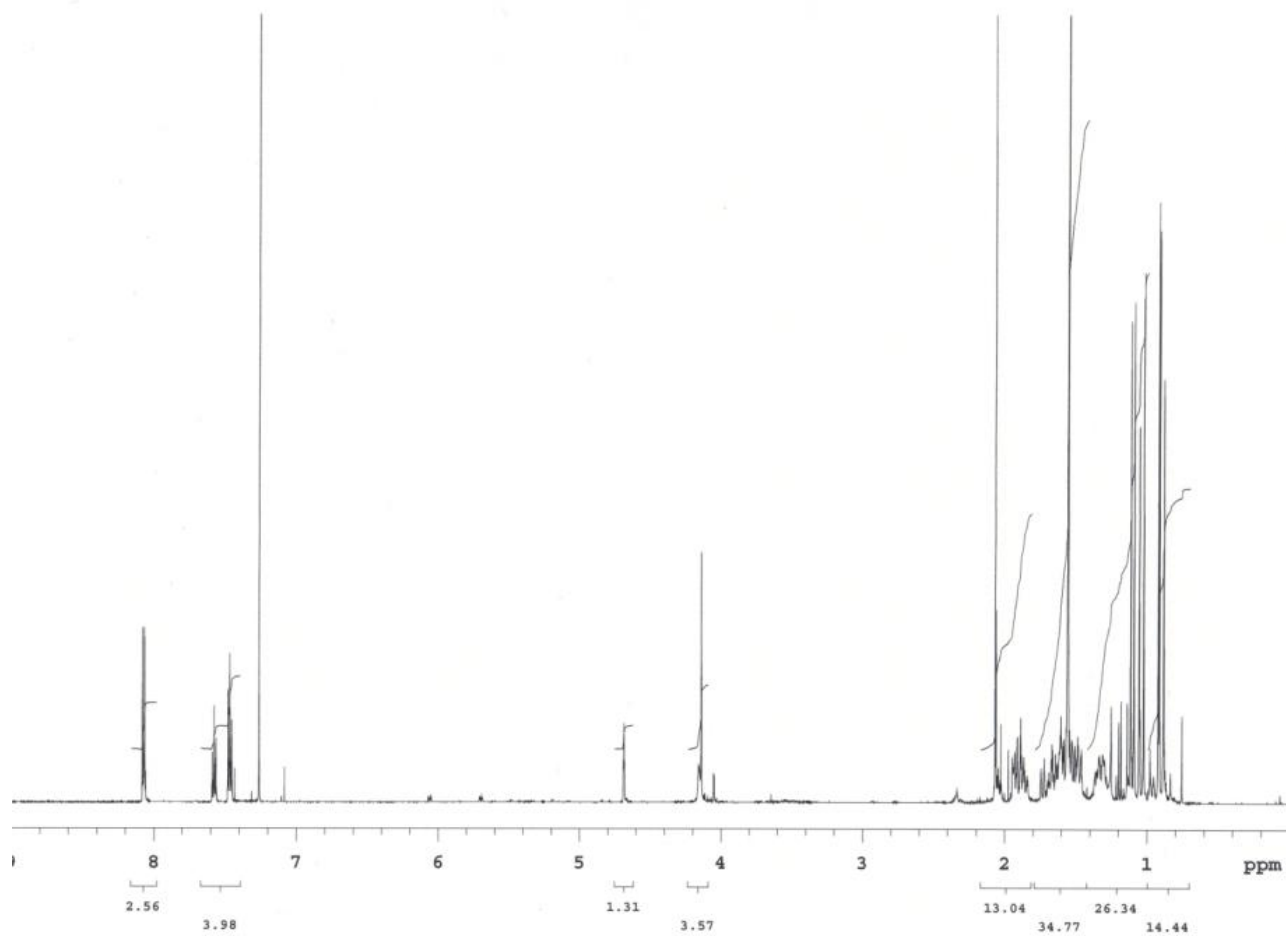


Figure S2. ^{13}C -NMR spectrum of compound **1**.

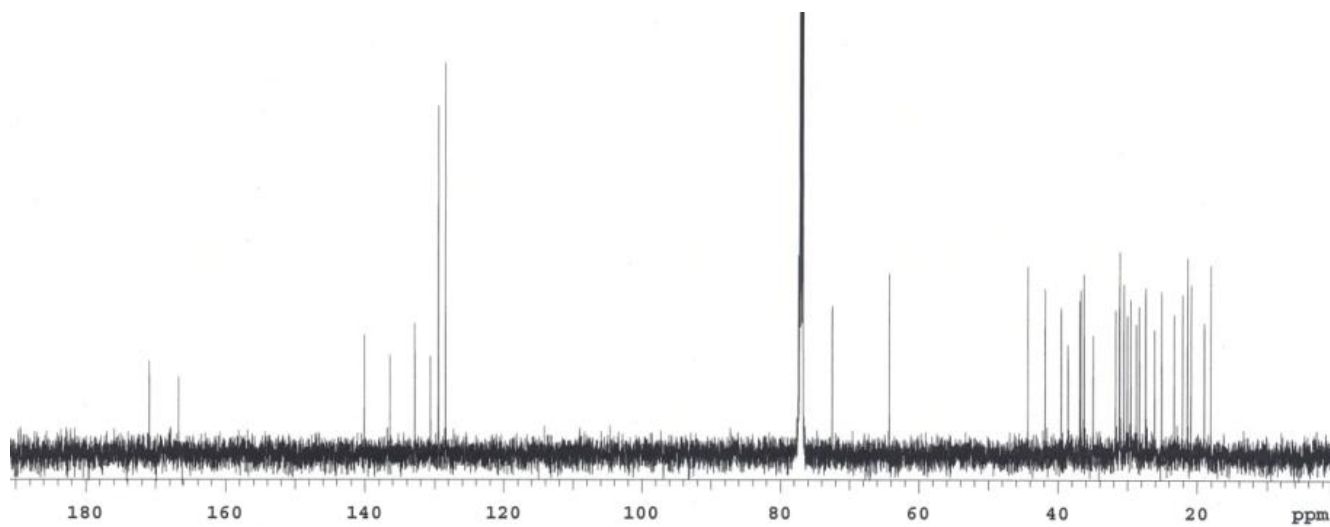


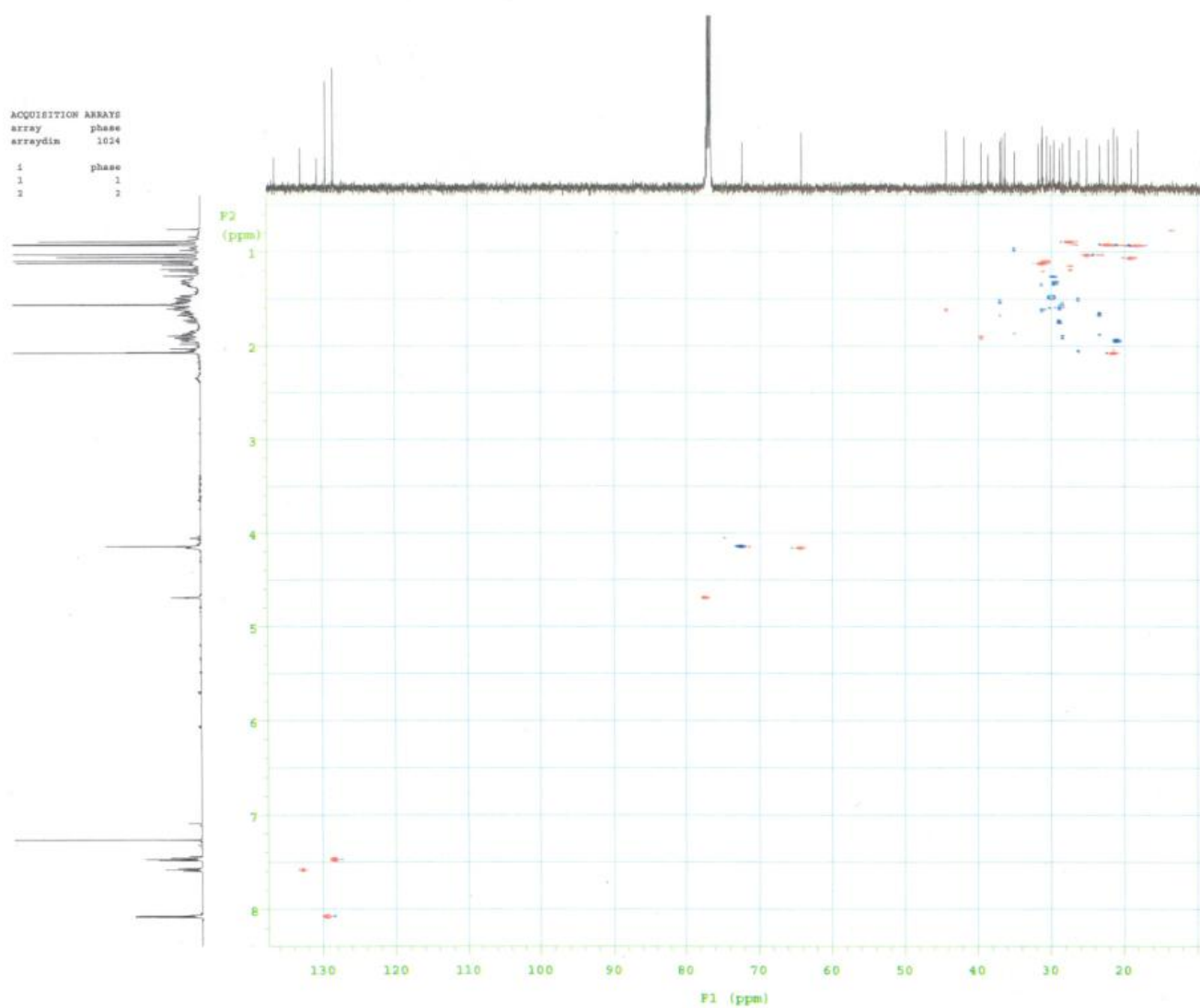
Figure S3. HSQC spectrum of compound 1.

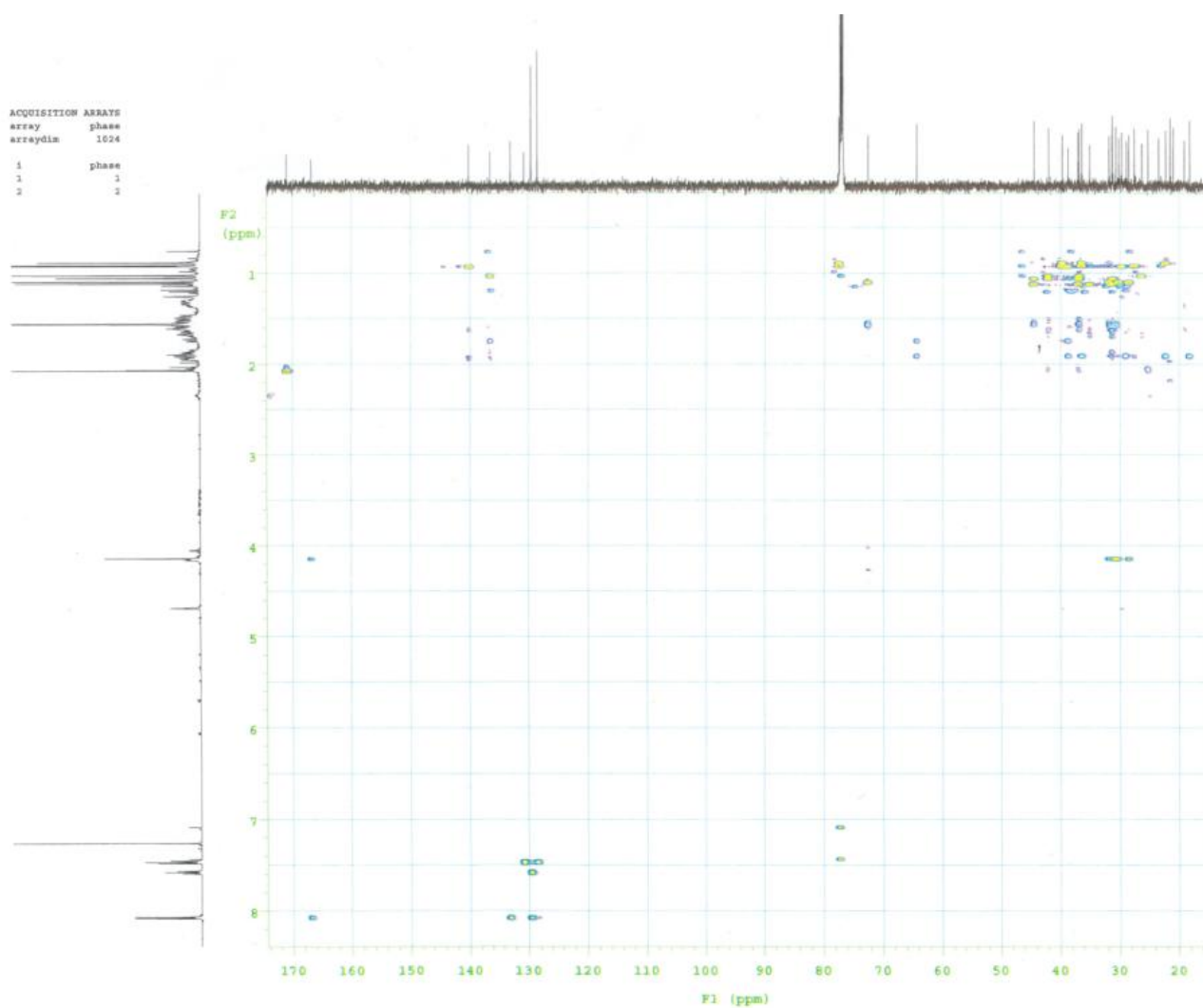
Figure S4. HMBC spectrum of compound **1**.

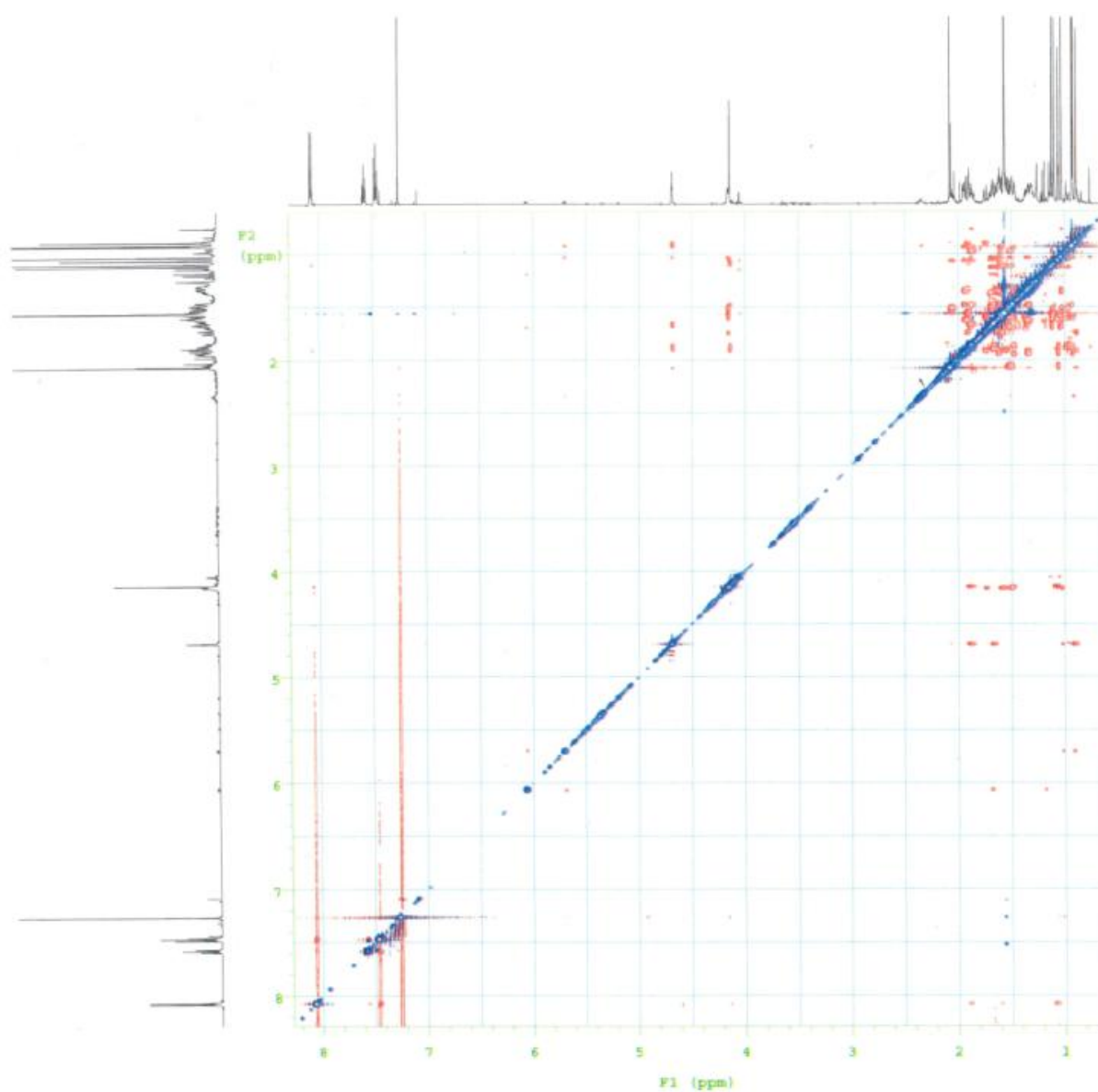
Figure S5. ^1H - ^1H COSY spectrum of compound 1.

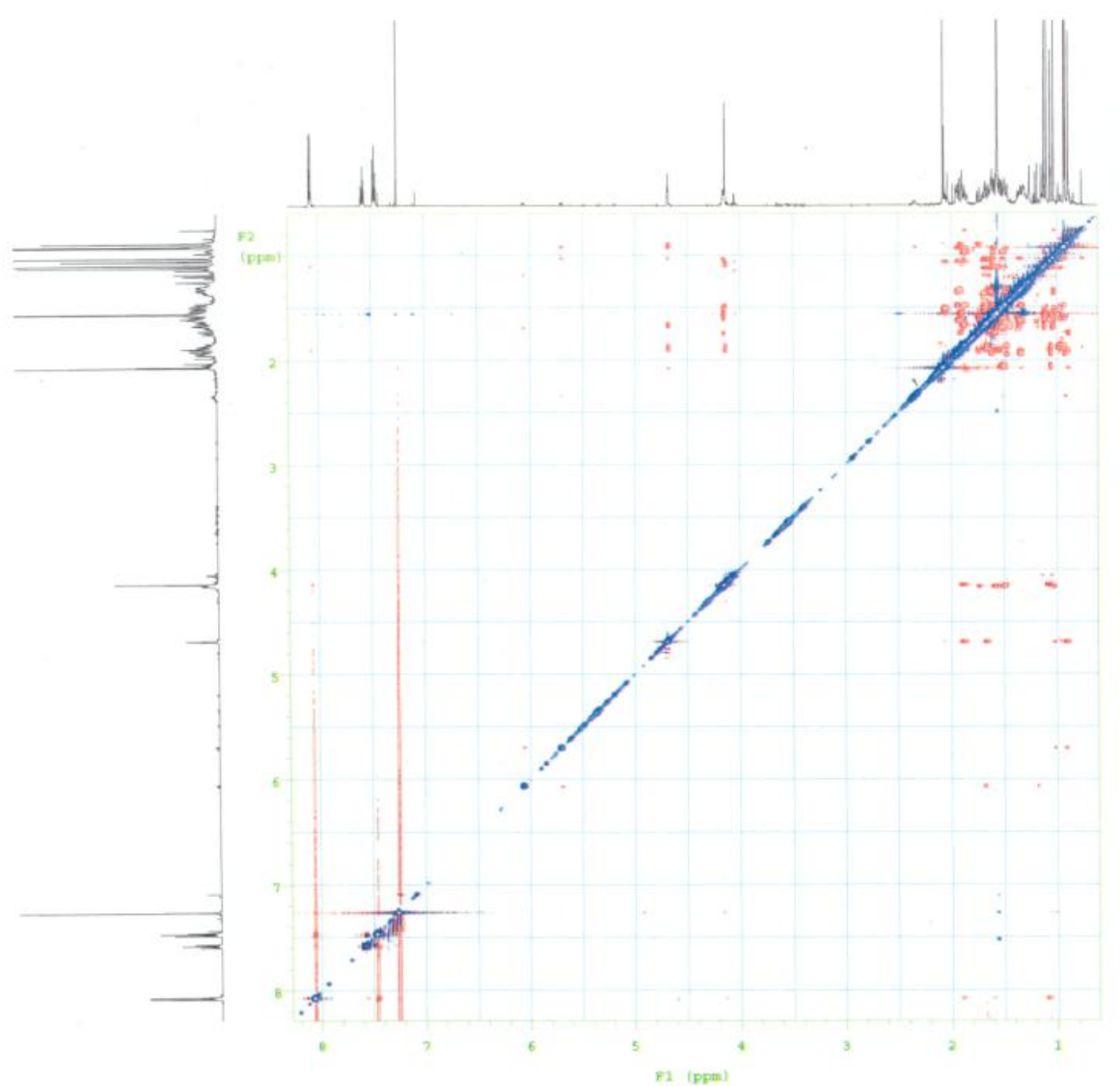
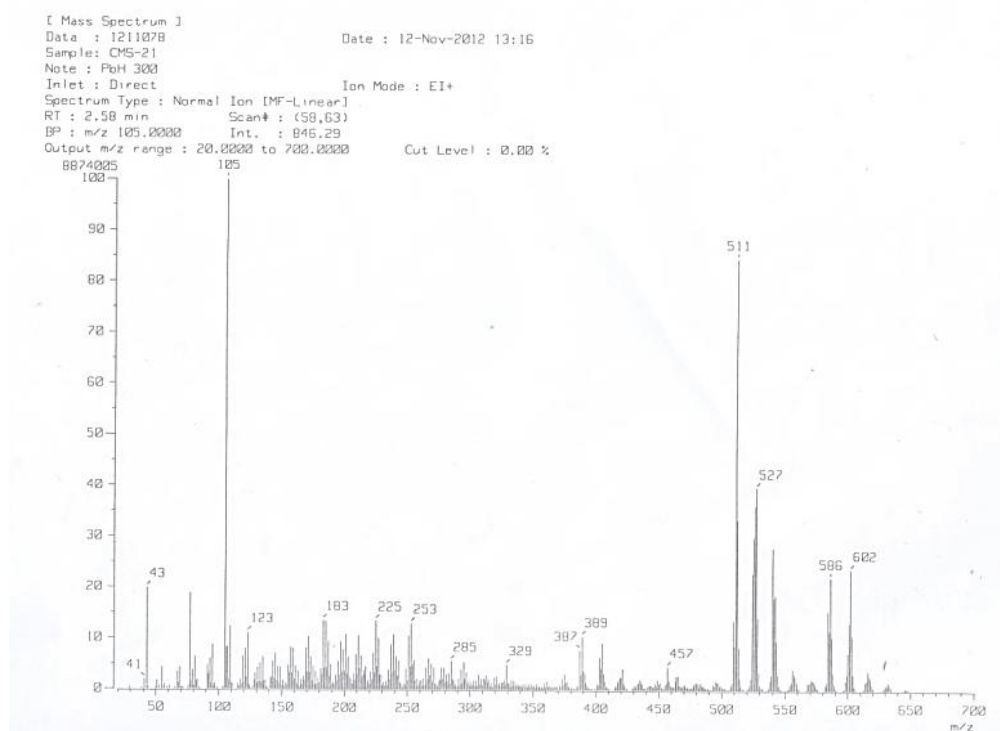
Figure S6. NOESY spectrum of compound 1.

Figure S7. EI-MS of compound 1.

Table S1. ^1H (600 MHz) and ^{13}C (150 MHz), ^1H - ^1H COSY, NOESY, and HMBC NMR Spectroscopic Data of Compounds 1

position	δ_{H} (J in Hz)	^1H - ^1H COSY	NOE	δ_{C} , type	HMBC (H to C)
1	α 1.33, m	1 β 2 α 2 β	5 α	29.6, t	25
	β 1.47, m	1 α 2 α 2 β			
2	α 1.66, m	1 α 1 β 2 β 3 β		23.3, t	
	β 1.88, m	1 α 1 β 2 α 3 β	24 25		
3	4.69, t (3.0)	2 α 2 β		77.4, d	23 24
4				36.3, s	5 α 23 24
5	1.91, m	6 α 6 β	1 α	39.6, d	23 24 25
6	α 1.74, m	5 α 6 β 7 β	23	28.8, t	5 α
	β 1.60, m	5 α 6 α 7 β	24 25 26		
7	4.16, brs	6 α 6 β	15 α 26	64.3, d	5 α 6 α
8				136.4, s	6 α 11 26
9				140.1, s	11 12 β 25
10				38.6, s	5 α 6 α 25
11	1.93, 2H, m	12 α 12 β		20.9, t	
12	α 1.34, m	11 12 β		31.19, t	27
	β 1.61, m	11 12 α	26		
13				36.8, s	12 β 19 β 26 27
14				41.9, s	12 β 15 α 15 β 26 27
15	α 2.05, m	15 β 16 α 16 β		26.1, t	16 β 26
	β 1.50, m	16 α 16 β 15 α	7 β 27		
16	α 1.54, m	15 α 15 β 16 β		36.9, t	15 α 28
	β 1.67, m	15 α 15 β 16 α	26		
17				31.2, s	16 β 18 19 α 19 β 22 α 28
18	1.61, m	19 α 19 β		44.4, d	16 α 27 28
19	α 1.90, m	18 β 19 β		28.4, t	29 30
	β 1.56, m	18 β 19 α	28		
20				31.7, s	19 β 29 30
21	α 1.47, m	21 β 22 α 22 β		30.1, t	29 30
	β 1.59, m	21 α 22 α 22 β	28		
22	α 1.87, m	22 β 21 α 21 β	27 29	35.0, t	18 21 β 28
	β 0.97, m	22 α 21 α 21 β			
23	0.89, s		6 α	27.4, q	5 24
24	0.91, s		2 β 6 β	22.1, q	5 23
25	0.92, s		2 β 6 β	18.1, q	5
26	1.03, s		7 β 12 β 16 β 18	25.1, q	15 α
27	1.06, s		15 α 22 α 29	19.0, q	12 α 12 β
28	1.12, s		19 β 21 β	31.17, q	
29	4.14, 2H, brs		27 22 α	72.5, t	19 β 30
30	1.10, s			30.6, q	19 β 29
3-O CO				170.9, s	3 1'
1'	2.07, s			21.4, q	
29-O CO				166.7, s	29 2'',6''
1''				130.6, s	3'',5''
2'', 6''	8.07, dd (1.2, 7.4)	3'',5''		129.4, d	4'' 2'',6''
3'', 5''	7.47, tt (1.2, 7.4)	2'',6'' 4''		128.4, d	3'',5''
4''	7.58, tt (1.2, 7.4)	3'',5''		132.9, d	2'',6''

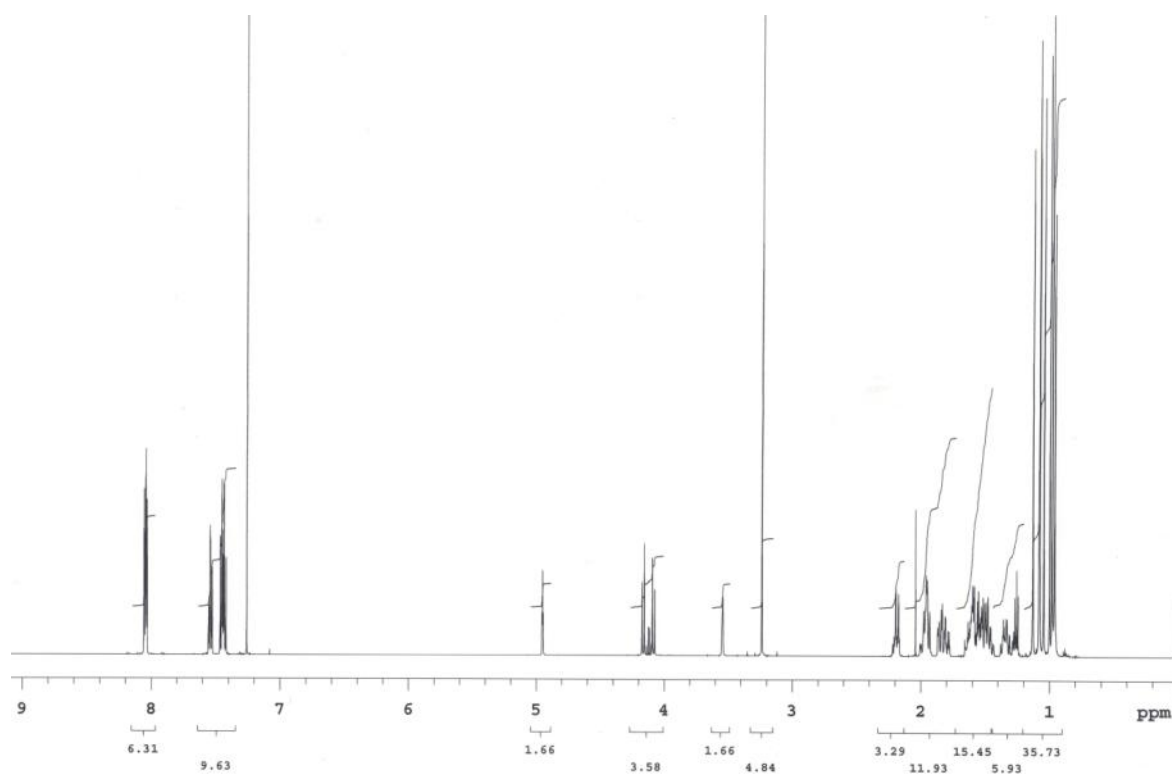
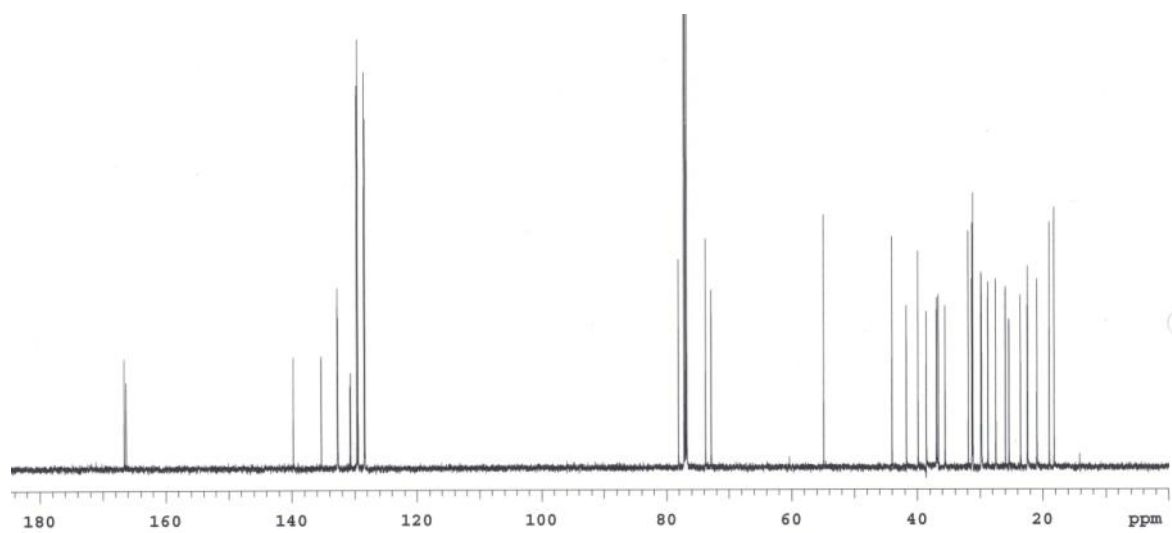
Figure S8. ^1H -NMR spectrum of compound 2.**Figure S9.** ^{13}C -NMR spectrum of compound 2.

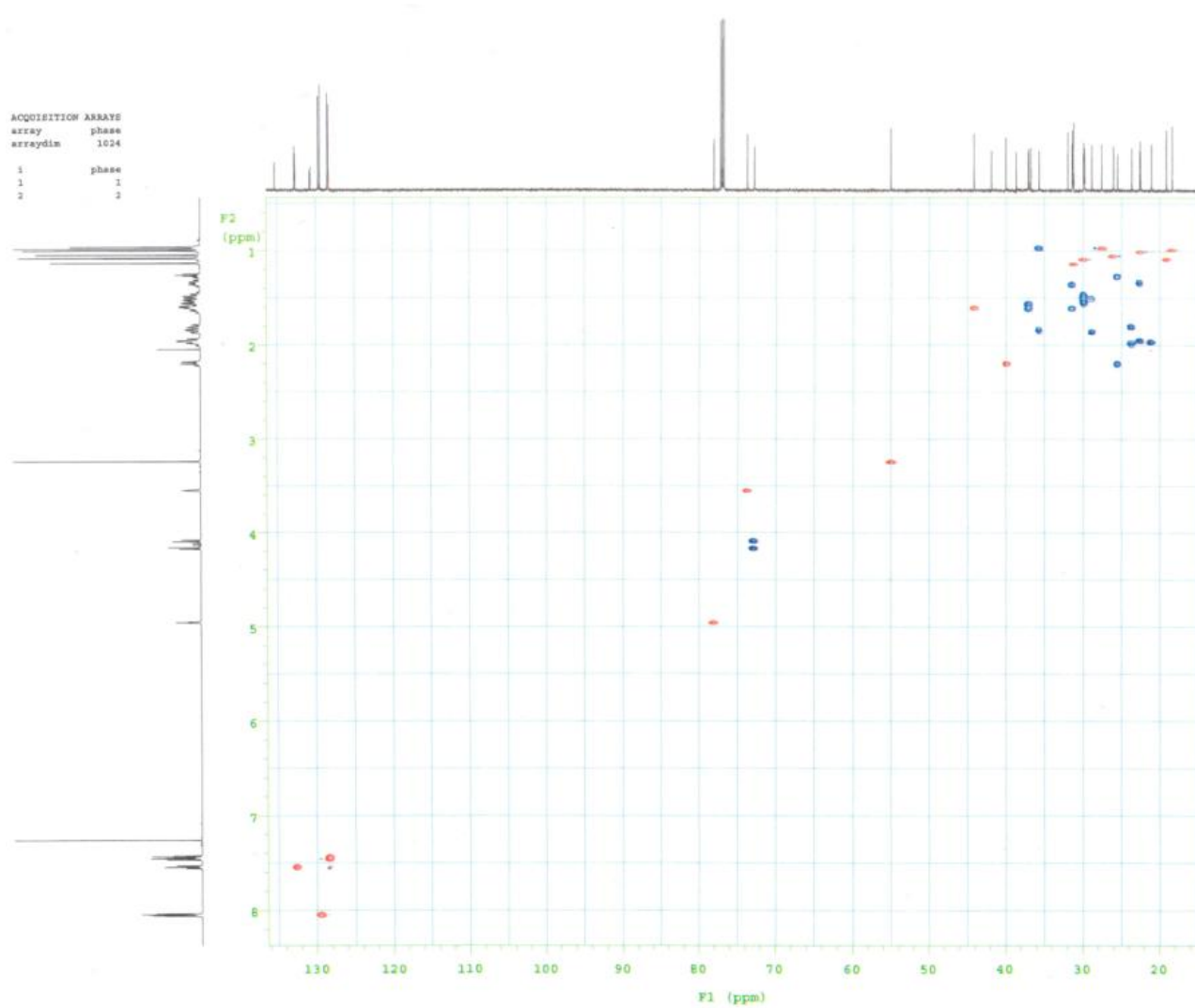
Figure S10. HSQC spectrum of compound 2.

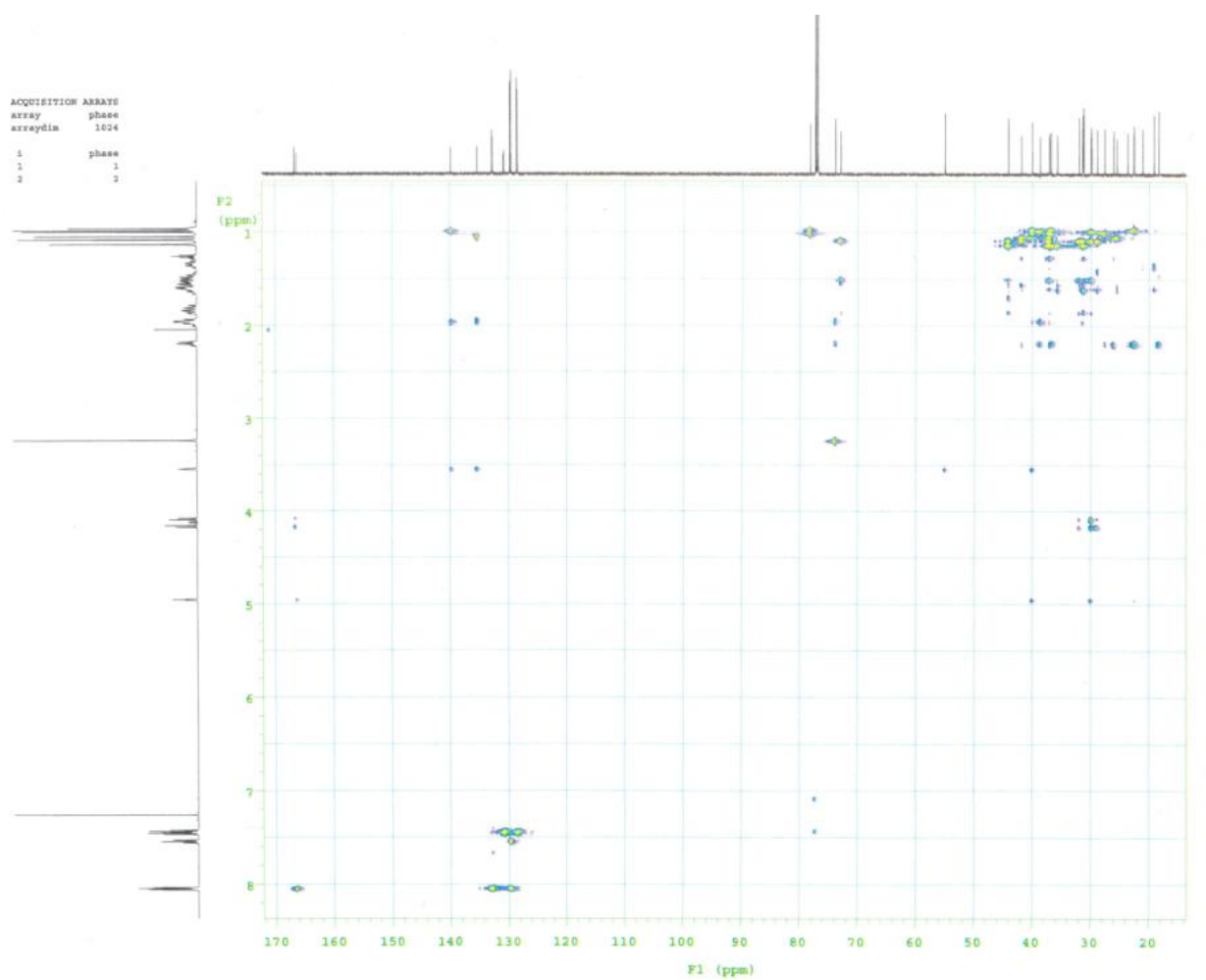
Figure S11. HMBC spectrum of compound 2.

Figure S12. ^1H - ^1H COSY spectrum of compound **2**.

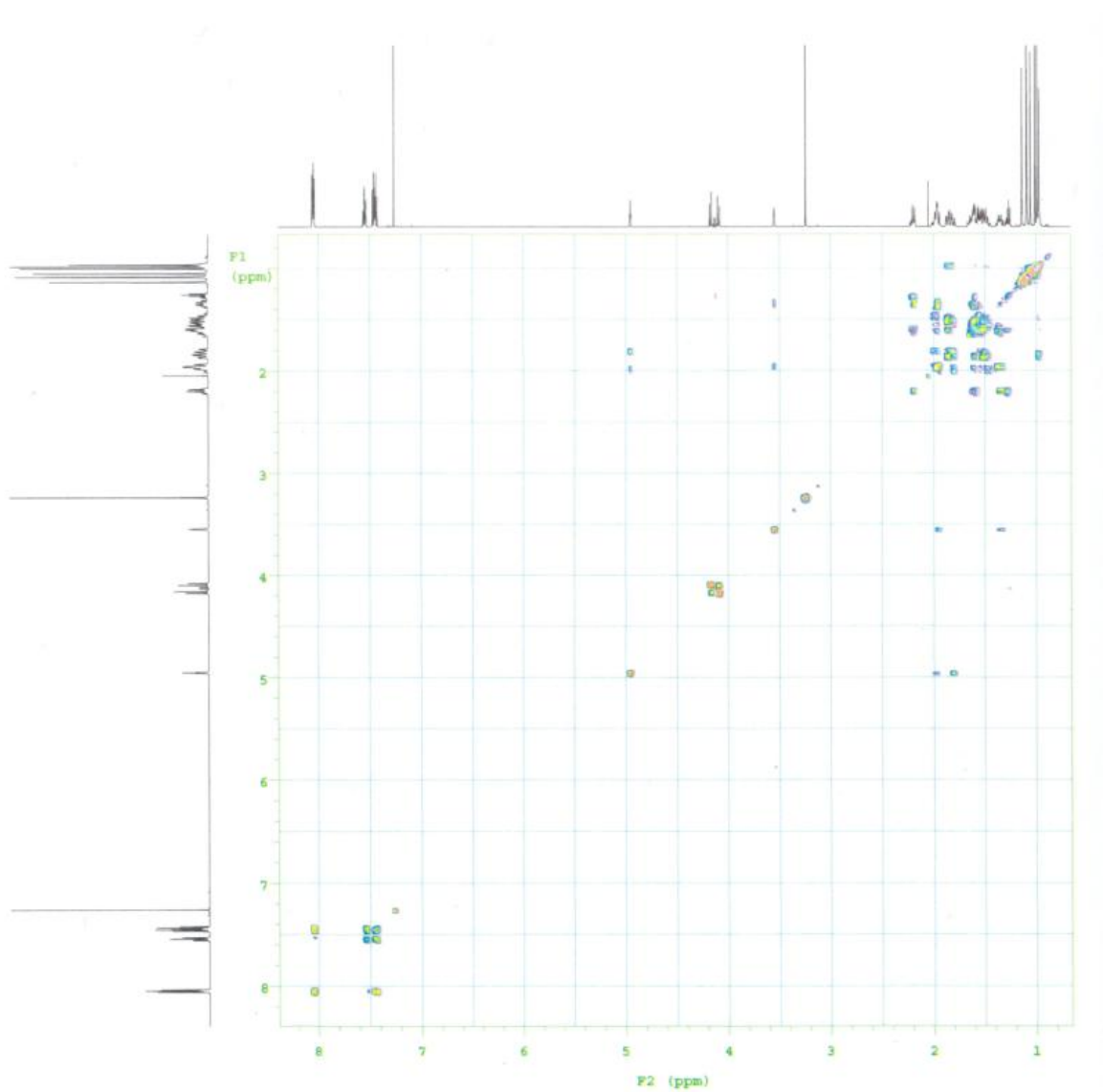


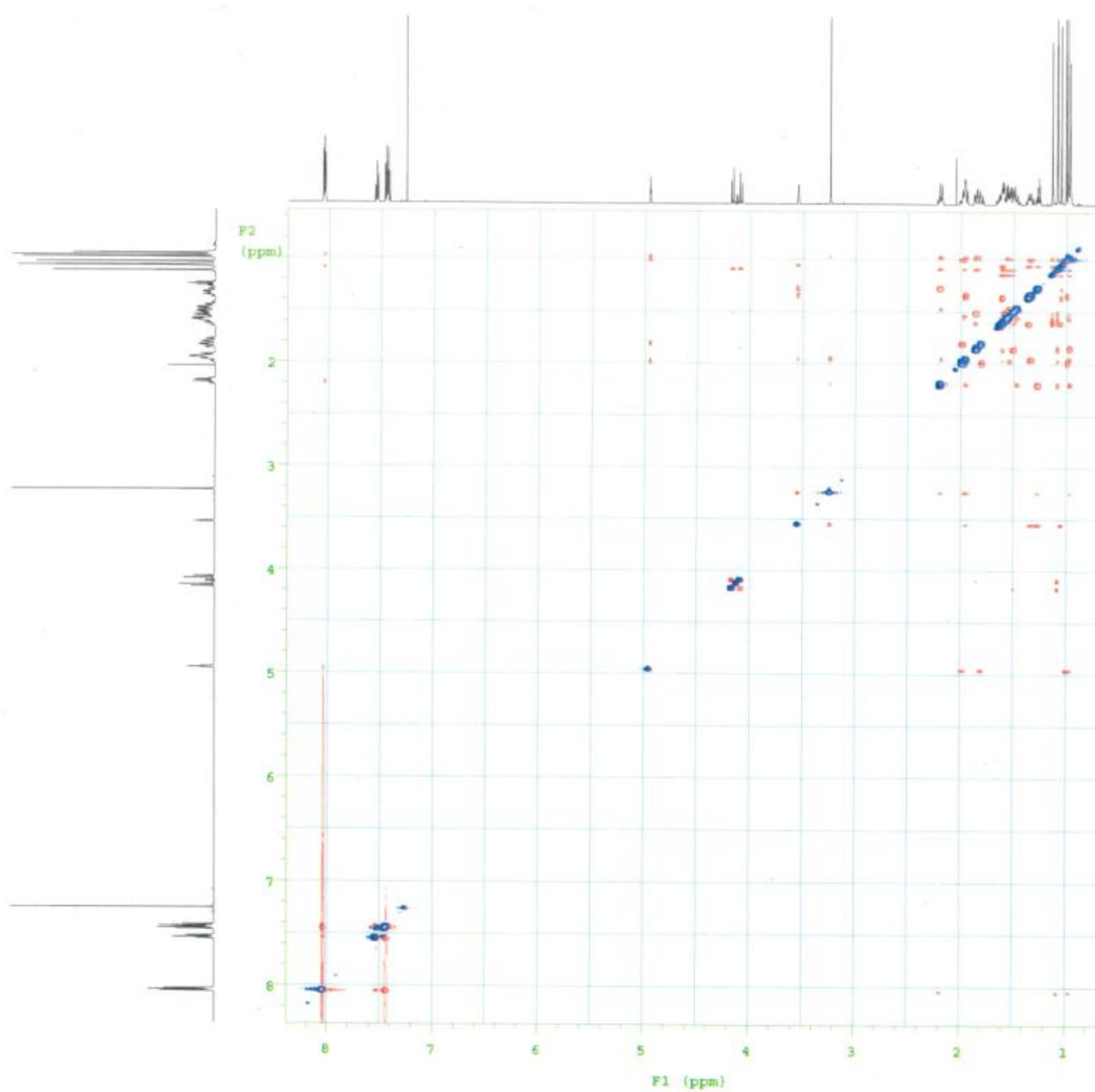
Figure S13. NOESY spectrum of compound 2.

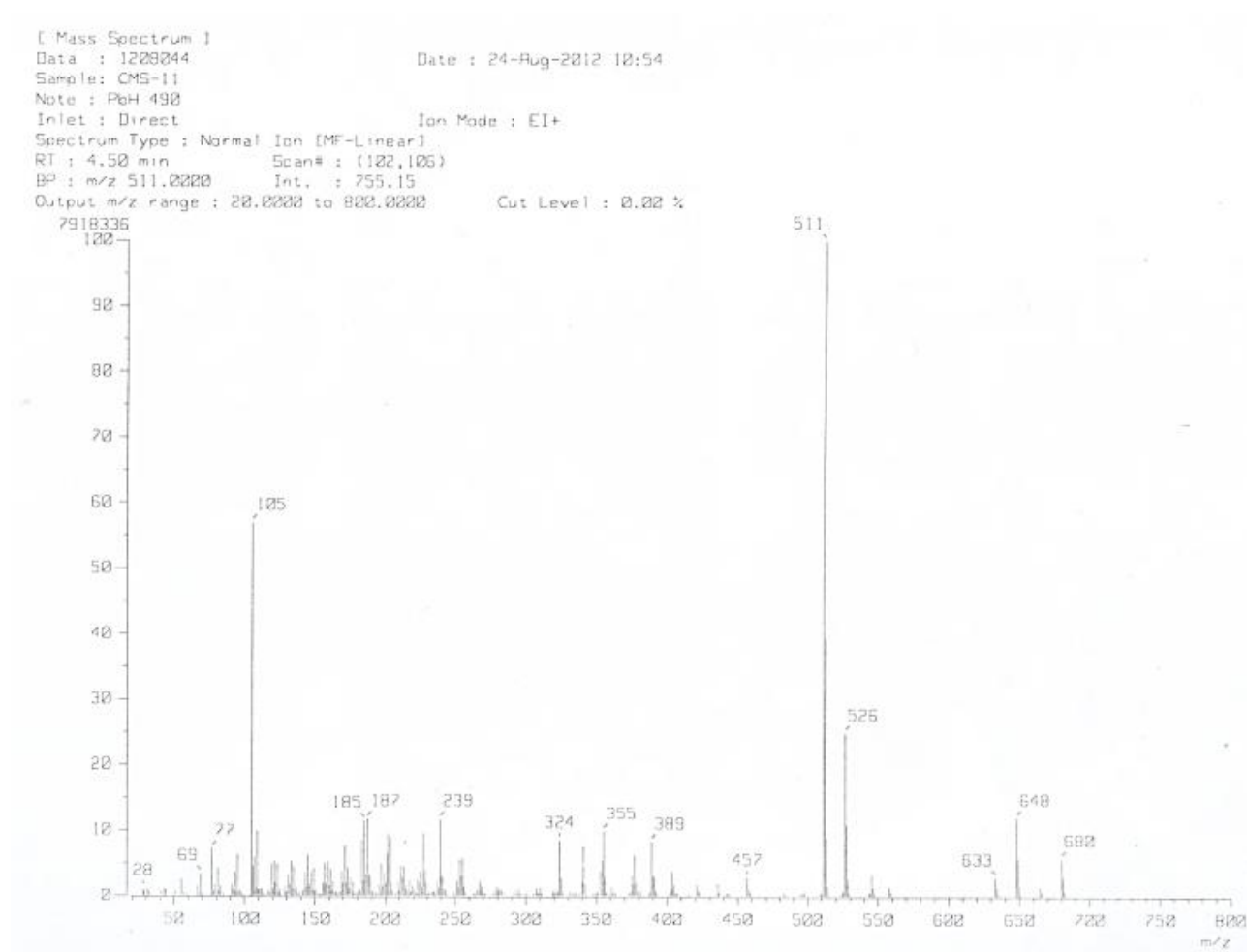
Figure S14. EI-MS of compound 2.

Table S2. ¹H (600 MHz) and ¹³C (150 MHz), ¹H-¹H COSY, NOESY, and HMBC NMR Spectroscopic Data of Compounds 2

position		δ_H (J in Hz)	¹ H- ¹ H COSY			NOE			δ_C , type	HMBC (H to C)					
1	α	1.48, m	1 β	2 α	2 β	5 α			29.8, t	3 β	25				
	β	1.53, m	1 α	2 α	2 β										
2	α	1.80, m	1 α	1 β	3 β				23.6, t						
	β	1.98, m	1 α	1 β	3 β	24	25								
3		4.95, t (2.9)	2 α	2 β					78.1, d	23	24				
4									36.7, s	5 α	23	24			
5		2.19, dd (1.2, 12.6)	6 α	6 β		1 α	27	7-OMe	39.9, d	3 β	6 α	7 β	23	24	25
6	α	1.95, m	5 α	6 β	7 β	23			22.5, t	5 α					
	β	1.34, m	5 α	6 α	7 β	24									
7		3.54, brs	6 α	6 β		15 β	26		73.8, d	5 α	6 α				
8									135.3, s	6 α	7 β	26			
9									139.7, s	7 β	11	25			
10									38.6, s	5 α	6 α	25			
11		1.97, m	12 α	12 β					20.9, t	12 α					
12	α	1.35, m	11	12 β					31.3, t	11	27				
	β	1.61, m	11	12 α		26									
13									37.0, s	11	15 β	18 β	19 α	19 β	26 27
14									41.8, s	15 α	15 β	16 β	26	27	
15	α	2.19, m	15 β	16 α	16 β	7-OMe			25.4, t	16 α	26				
	β	1.26, m	15 α	16 α	16 β	7 β									
16	α	1.56, m	15 α	15 β	16 β				36.9, t	15 β	22 β	28			
	β	1.61, m	15 α	15 β	16 α	26									
17									31.1, s	15 β	16 α	16 β	18	21 α 22 α 22 β	28
18		1.60, m	19 α	19 β		26			44.0, d	16 β	21 β	22 α	27	28	
19	α	1.86, m	18 β	19 β					28.8, t	18 β	29 α	29 β	30		
	β	1.49, m	18 β	19 α		28									
20									31.9, s	19 β	22 α	29 α	29 β	30	
21	α	1.48, m	21 β	22 α	22 β				29.9, t	19 β	22 α	22 β	29 α	29 β	30
	β	1.53, m	21 α	22 α	22 β	28									
22	α	1.84, d (4.4)	21 α	21 β	22 β	27			35.6, t	16 α	16 β	18	28		
	β	0.96, m	21 α	21 β	22 α										
23		0.97, s				6 α			27.5, q	5	24				
24		1.00, s				2 β	6 β	25	22.4, q	5	23				
25		0.98, s				2 β	24		18.2, q	5					
26		1.05, s				7 β	12 β	16 β	26.0, q	15 α	15 β				
27		1.082, s				5 α	22 α	29 α	19.0, q	12 α	12 β	18			
28		1.13, s				19 β	21 β		31.3, q	16 α	16 β	18	22 α	22 β	
29	a	4.16, d (10.8)				27			72.9, t	19 β	21 α	21 β	30		
	b	4.08, d (10.8)				27									
30		1.084, s							29.8, q	29 α	29 β				
3-O-CO									166.3, s	3	2',6'				
1'									130.8 ^a , s	3',5'					
2'', 6''		8.05 ^a , dd (1.4, 7.4)	3',5'						129.6 ^b , d	4'	2',6'				
3'', 5''		7.45 ^b , tt (1.4, 7.4)	2',6'	4'					128.4 ^c , d	4'					
4''		7.55 ^c , tt (1.4, 7.4)	3',5'						132.7 ^d , d	3',5'					
29-O-CO									166.6, s	29 α	29 β	2'', 6''			
1''									130.7 ^a , s	3'',5''					
2'', 6''		8.04 ^a , dd (1.4, 7.4)	3'',5''						129.4 ^b , d	2'',6''	4''				
3'', 5''		7.43 ^b , tt (1.4, 7.4)	2'',6''	4''					128.3 ^c , d	4''					
4''		7.54 ^c , tt (1.4, 7.4)	3'',5''						132.6 ^d , d	2'',6''					
7-OMe		3.24, s				5 α	15 α		54.9, q						

a—d Interchangeable.

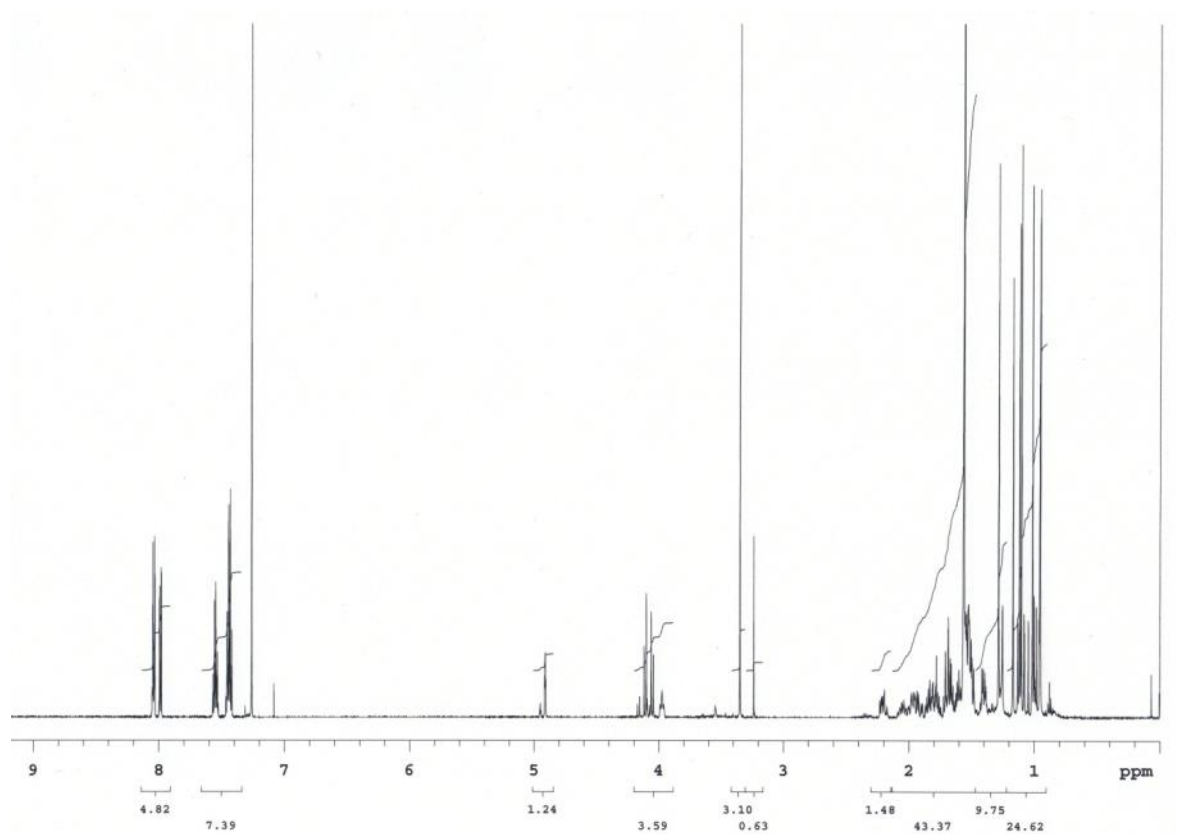
Figure S15. ^1H -NMR spectrum of compound 3.

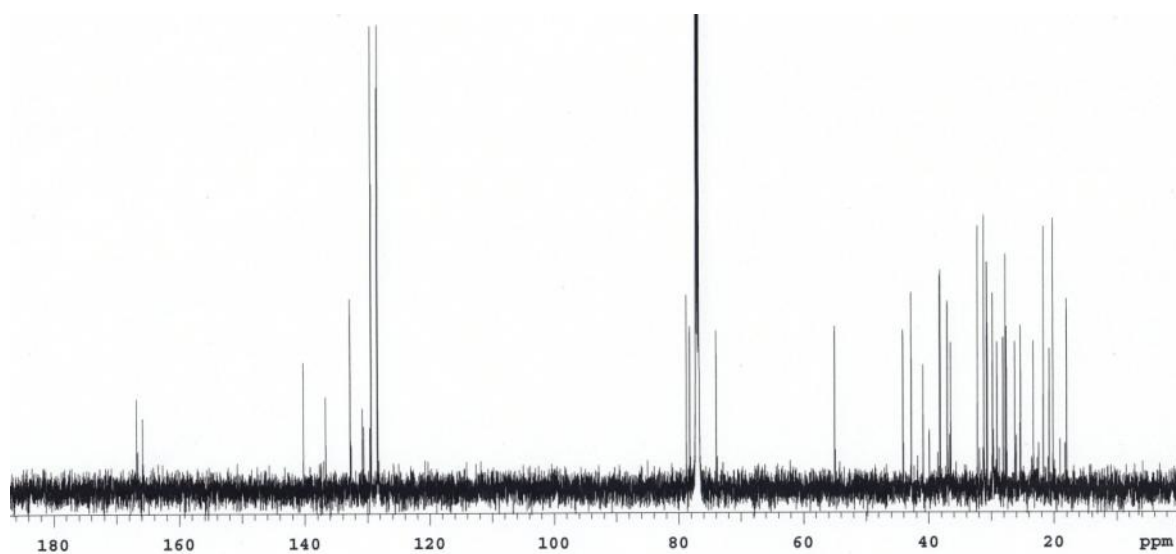
Figure S16. ^{13}C -NMR spectrum of compound 3.

Figure S17. HSQC spectrum of compound 3.

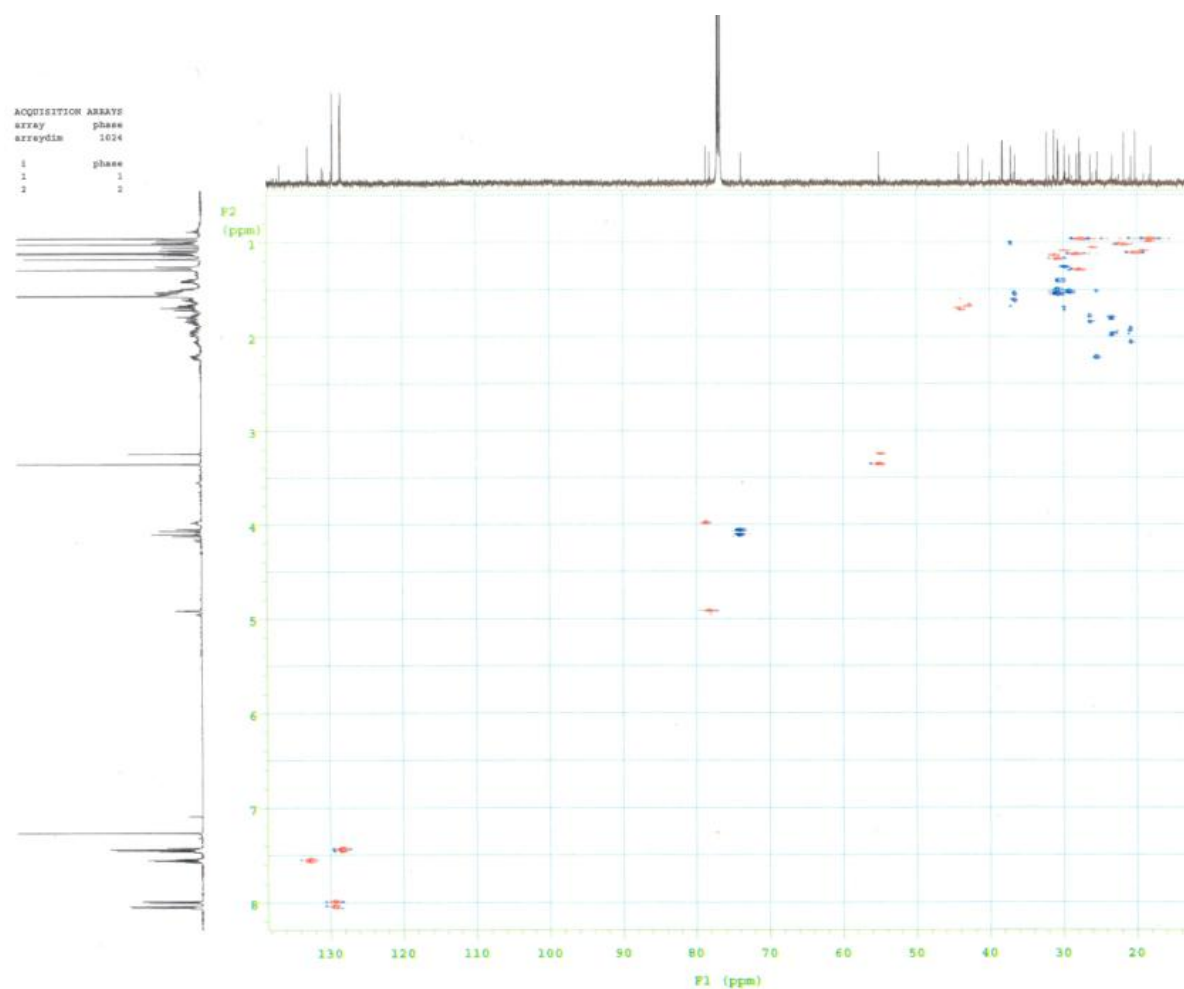


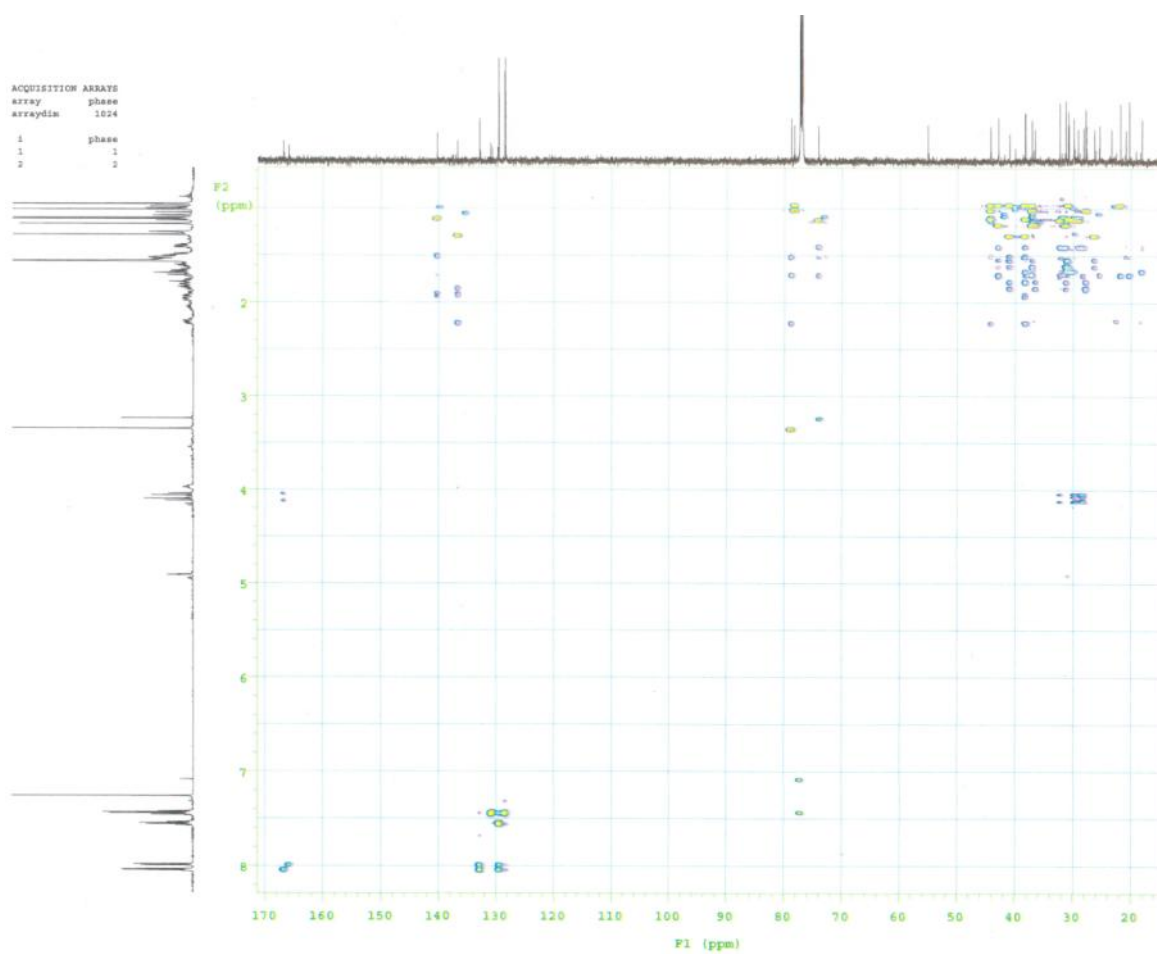
Figure S18. HMBC spectrum of compound 3.

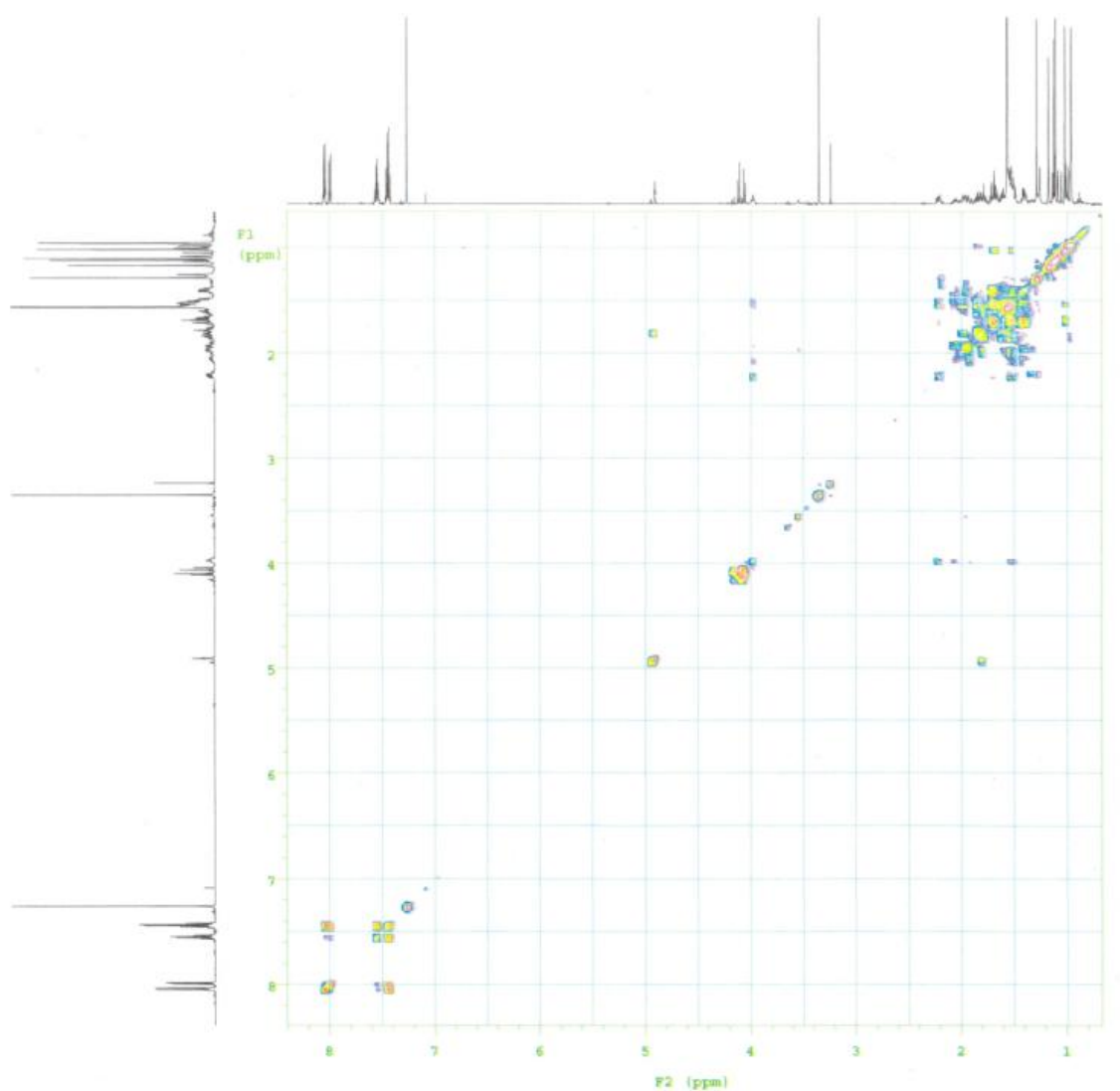
Figure S19. ^1H - ^1H COSY spectrum of compound 3.

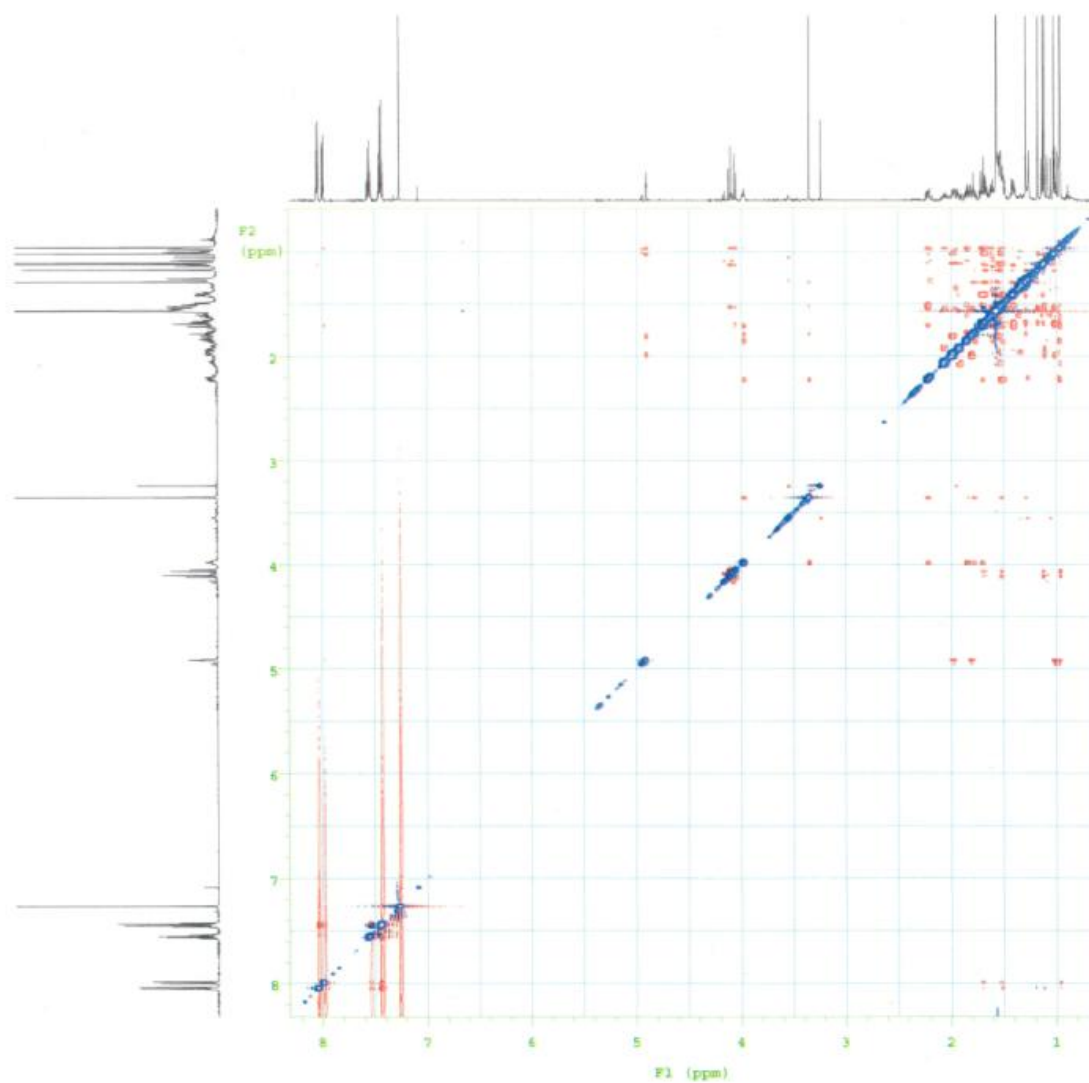
Figure S20. NOESY spectrum of compound 3.

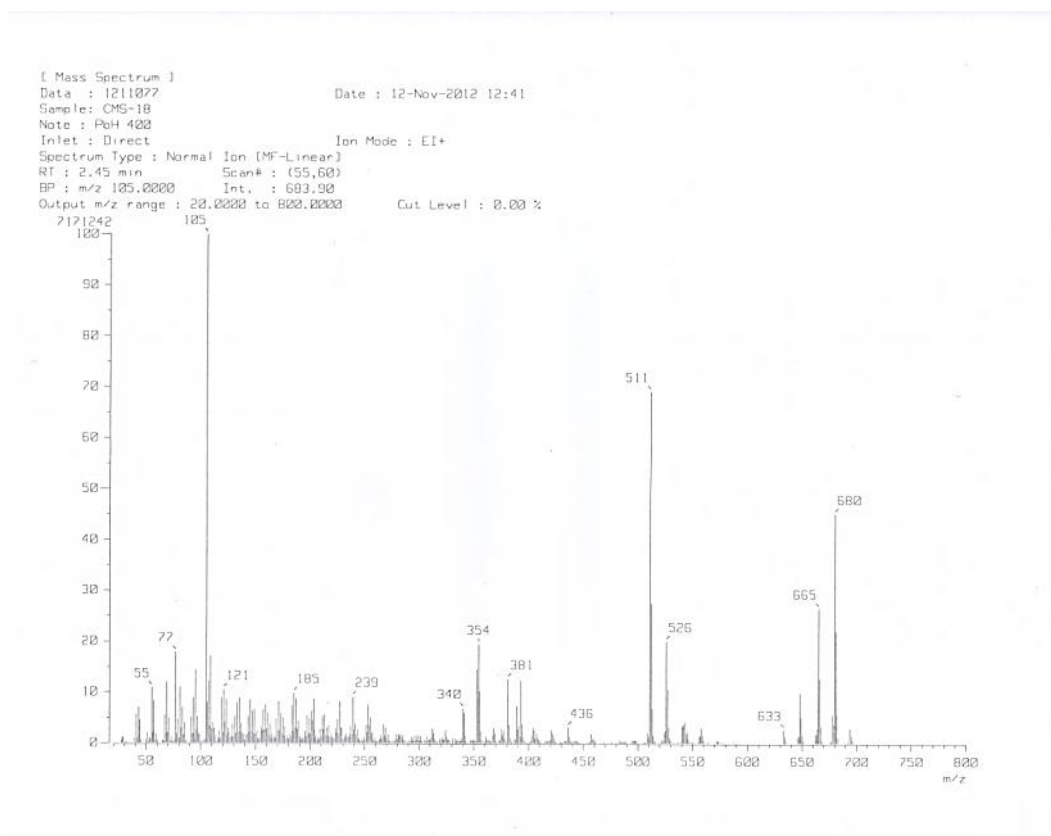
Figure S21. EI-MS of compound 3.

Table S3. ^1H (600 MHz) and ^{13}C (150 MHz), ^1H - ^1H COSY, NOESY, and HMBC NMR Spectroscopic Data of Compounds 3

position	δ_{H} (J in Hz)	^1H - ^1H COSY	NOE	δ_{C} , type	HMBC (H to C)
1	α 1.40, m	1 β 2 α 2 β	5 α	30.6, t	25
	β 1.52, m	1 α 2 α 2 β			
2	α 1.80, m	1 α 1 β 2 β 3 β		23.3, t	
	β 1.97, m	1 α 1 β 2 α 3 β	24 25		
3	4.91, t (3.0)	2 α 2 β		78.2, d	23 24
4				37.0, s	5 α 23 24
5	1.70, m	6 α 6 β	1 α 7 α	44.1, d	6 α 23 24 25
6	α 2.21, m	5 α 6 β 7 α		25.3, t	5 α
	β 1.51, m	5 α 6 α 7 α			
7	3.98, brt (7.6)	6 α 6 β	5 α 15 α	78.8, d	5 α 6 α 6 β 7-OMe
8				136.7, s	7 α 11 α 11 β 15 β 26
9				140.3, s	1 β 11 β 25
10				38.2, s	1 α 1 β 5 6 α 25
11	α 2.03, m	11 β 12 α 12 β	27	20.8, t	12 α
	β 1.91, m	11 α 12 α 12 β			
12	α 1.51, m	11 α 11 β 12 α		30.7, t	18 β 27
	β 1.40, m	11 α 11 β 12 β	26		
13				38.2, s	26
14				40.9, s	15 α 15 β 16 α 16 β 26 27
15	α 1.78, m	15 β 16 α 16 β	7 α	26.3, t	16 α 16 β 26
	β 1.83, m	15 α 16 α 16 β			
16	α 1.61, m	15 α 15 β 16 β		36.5, t	15 α 15 β 28
	β 1.53, m	15 α 15 β 16 α	18 β		
17				31.2, s	15 α 15 β 19 α 28
18	1.66, m	19 α 19 β	16 β 26	42.8, d	16 β 19 α 27 28
19	α 1.40, m	18 β 19 α 19 β		29.8, t	18 β 29a 29b 30
	β 1.50, m	18 β 19 α 19 β	28		
20				32.2, s	19 α 19 β 22 β 29a 29b 30
21	1.52, m	22 α 22 β		29.1, t	29a 29b 30
22	α 1.68, m	21 22 β	27	37.1, t	16 α 16 β 21 28
	β 1.01, m	21 22 α			
23	0.96, s		6 α	27.6, q	24
24	1.02, s		6 β	21.7, q	5 α 23
25	1.10, s		2 β	20.2, q	5 α
26	1.29, s		12 β	27.8, q	15 α 15 β
27	0.95, s		11 α 22 α 29a 29b	18.0, q	12 β 18 β
28	1.17, s		19 β 26	30.7, q	
29	a 4.11, d (10.6)		27	74.0, t	19 α 30
	b 4.05, d (10.6)		27		
30	1.12, s			28.1, q	19 α 29a 29b
3-O CO				165.9, s	3 β 2',6'
1'				130.6, s	
2'', 6''	7.99, dd (1.4, 7.4)	3',5'		129.4, d	2',6' 4'
3'', 5''	7.45, tt (1.4, 7.4)	2',6' 4'		128.5, d	3',5'
4''	7.56, tt (1.4, 7.4)	3',5'		132.8, d	2',6'
29-O CO				166.8, s	29a 29b 2'',6''
1''				130.9, s	
2'', 6''	8.04, dd (1.7, 7.3)	3'',5''		129.5, d	2'',6'' 4''
3'', 5''	7.43, tt (1.7, 7.3)	2'',6'' 4''		128.4, d	3'',5''
4''	7.55, tt (1.7, 7.3)	3'',5''		132.8, d	2'',6''
7-OMe	3.35, s		26	55.0, q	