

## Supplementary Material

### **Cytotoxic Isopentenyl Phloroglucinol Compounds from *Garcinia xanthochymus* Using LC-MS-Based Metabolomics**

Fan Quan, Xinbo Luan, Jian Zhang, Wenjie Gao, Jian Yan \* and Ping Li \*

*Key Laboratory of Agro-Environment in the Tropics, Ministry of Agriculture and Rural Affairs, Guang-dong Provincial Key Laboratory of Eco-Circular Agriculture, Guangdong Engineering Research Centre for Modern Eco-Agriculture, College of Natural Resources and Environment, South China Agricultural University, Guangzhou 510642, China*

**Table S1.** Metabolic compositions were putatively identified by UPLC-QTOF-MS and MSE analysis in *G. xanthochymus*.

Peak NO.	Rt. (min)	MS molecular ions [M + H] <sup>+</sup> / [M-H] <sup>-</sup>			MSE fragment ions			Identification	Class	Plant Parts
		<i>m/z</i>	M.F.	ppm	<i>m/z</i>	M.F.	ppm	[Ref.]		
1	0.656	-	-	-	-	-	-	eucryphin [1]	flavonoid	leaf
		339.0726	C <sub>15</sub> H <sub>15</sub> O <sub>9</sub>	2.9	-	-	-			
2	2.137	-	-	-	-	-	-	unknown		leaf
		549.2546	C <sub>25</sub> H <sub>41</sub> O <sub>13</sub>	-0.2	371.2073	C <sub>19</sub> H <sub>31</sub> O <sub>7</sub>	0.8			
3	2.200	-	-	-	-	-	-	xanthochymusside [2]	biflavonoid	leaf
		719.1609	C <sub>36</sub> H <sub>31</sub> O <sub>16</sub>	-0.4	593.1293	C <sub>30</sub> H <sub>25</sub> O <sub>13</sub>	-0.3			
					431.0757	C <sub>24</sub> H <sub>15</sub> O <sub>8</sub>	-2.3			
					295.0246	C <sub>16</sub> H <sub>7</sub> O <sub>6</sub>	1.0			
4	2.269	719.1571	C <sub>36</sub> H <sub>31</sub> O <sub>16</sub>	-5.7	557.1080	C <sub>30</sub> H <sub>21</sub> O <sub>11</sub>	-0.7	fukugiside [3]	biflavonoid	fruit, leaf, branch, stem bark
					431.0710	C <sub>24</sub> H <sub>15</sub> O <sub>8</sub>	0.9			
					403.0826	C <sub>23</sub> H <sub>15</sub> O <sub>7</sub>	2.0			
		717.1461	C <sub>36</sub> H <sub>29</sub> O <sub>16</sub>	0.7	565.1332	C <sub>29</sub> H <sub>25</sub> O <sub>12</sub>	-2.5			
					429.0600	C <sub>24</sub> H <sub>13</sub> O <sub>8</sub>	-2.3			
5	2.435	721.1726	C <sub>36</sub> H <sub>33</sub> O <sub>16</sub>	-6	-	-	-	xanthochymusside [2]	biflavonoid	leaf
		719.1605	C <sub>36</sub> H <sub>31</sub> O <sub>16</sub>	-1	593.1277	C <sub>30</sub> H <sub>25</sub> O <sub>13</sub>	-3			
					431.0753	C <sub>24</sub> H <sub>15</sub> O <sub>8</sub>	-3.2			
					295.0243	C <sub>16</sub> H <sub>7</sub> O <sub>6</sub>	0.0			
6	2.469	575.1177	C <sub>30</sub> H <sub>23</sub> O <sub>12</sub>	-2.3	431.0762	C <sub>24</sub> H <sub>15</sub> O <sub>8</sub>	-1.2	buchananiflavanone [4]	biflavonoid	leaf
					403.0818	C <sub>23</sub> H <sub>15</sub> O <sub>7</sub>	0.0			
					297.0412	C <sub>16</sub> H <sub>9</sub> O <sub>6</sub>	4.4			
		573.1037	C <sub>30</sub> H <sub>21</sub> O <sub>12</sub>	0.7	447.0706	C <sub>24</sub> H <sub>15</sub> O <sub>9</sub>	0.2			
					429.0603	C <sub>24</sub> H <sub>13</sub> O <sub>8</sub>	-2.3			
					295.0240	C <sub>16</sub> H <sub>7</sub> O <sub>6</sub>	-1.0			
7	2.653	559.1230	C <sub>30</sub> H <sub>23</sub> O <sub>11</sub>	-1.8	-	-	-	GB-2a or its isomers	biflavonoid	leaf

Peak NO.	Rt. (min)	MS molecular ions [M + H] <sup>+</sup> / [M-H] <sup>-</sup>			MSE fragment ions			Identification [Ref.]	Class	Plant Parts
		<i>m/z</i>	M.F.	ppm	<i>m/z</i>	M.F.	ppm			
8	2.734	557.1085	C <sub>30</sub> H <sub>21</sub> O <sub>11</sub>	0.2	447.0728	C <sub>24</sub> H <sub>15</sub> O <sub>9</sub>	2.7	[2]	biflavonoid	fruit, leaf, branch, stem bark, seed
					429.0606	C <sub>24</sub> H <sub>13</sub> O <sub>8</sub>	-0.9			
		557.1075	C <sub>30</sub> H <sub>21</sub> O <sub>11</sub>	-1.6	539.0980	C <sub>30</sub> H <sub>19</sub> O <sub>10</sub>	0.4	fukugetin [5] or		
					431.0771	C <sub>24</sub> H <sub>15</sub> O <sub>8</sub>	0.9	morelloflavone [6]		
					403.0822	C <sub>23</sub> H <sub>15</sub> O <sub>7</sub>	1.0			
		555.0930	C <sub>30</sub> H <sub>19</sub> O <sub>11</sub>	0.5	429.0601	C <sub>24</sub> H <sub>13</sub> O <sub>8</sub>	-2.1			
9	2.751				401.0679	C <sub>23</sub> H <sub>13</sub> O <sub>7</sub>	4.5		biflavonoid	leaf
					295.0238	C <sub>16</sub> H <sub>7</sub> O <sub>6</sub>	-1.7			
		559.1226	C <sub>30</sub> H <sub>23</sub> O <sub>11</sub>	-2.5	-	-	-	GB-1 or its isomers [7]		
		557.1077	C <sub>30</sub> H <sub>21</sub> O <sub>11</sub>	-1.3	429.0597	C <sub>24</sub> H <sub>13</sub> O <sub>8</sub>	-2.1			
					401.0652	C <sub>23</sub> H <sub>13</sub> O <sub>7</sub>	-2.2			
10	2.917				295.0240	C <sub>16</sub> H <sub>7</sub> O <sub>6</sub>	-0.3		biflavonoid	leaf, branch
		543.1270	C <sub>30</sub> H <sub>23</sub> O <sub>10</sub>	-3.9	415.0827	C <sub>24</sub> H <sub>15</sub> O <sub>7</sub>	2.2	GB 1a [3]		
					387.0878	C <sub>23</sub> H <sub>15</sub> O <sub>6</sub>	2.3			
					297.0409	C <sub>16</sub> H <sub>9</sub> O <sub>6</sub>	3.4			
		541.1129	C <sub>30</sub> H <sub>21</sub> O <sub>10</sub>	-1.1	413.0654	C <sub>24</sub> H <sub>13</sub> O <sub>7</sub>	-4.4			
					385.0700	C <sub>23</sub> H <sub>13</sub> O <sub>6</sub>	-3.6			
11	2.917				295.0241	C <sub>16</sub> H <sub>7</sub> O <sub>6</sub>	-1.9		biflavonoid	stem bark, seed
		541.1126	C <sub>30</sub> H <sub>21</sub> O <sub>10</sub>	-1.7	415.0827	C <sub>24</sub> H <sub>15</sub> O <sub>7</sub>	3.9	volkensiflavone [8]		
					387.0882	C <sub>23</sub> H <sub>15</sub> O <sub>6</sub>	1.3			
		539.0979	C <sub>30</sub> H <sub>19</sub> O <sub>10</sub>	0.2	429.0598	C <sub>24</sub> H <sub>13</sub> O <sub>8</sub>	-2.8			
					413.0652	C <sub>24</sub> H <sub>13</sub> O <sub>7</sub>	-2.2			
					385.0706	C <sub>23</sub> H <sub>13</sub> O <sub>6</sub>	-1.6			
					295.0241	C <sub>16</sub> H <sub>7</sub> O <sub>6</sub>	-0.7			
					267.0829	C <sub>15</sub> H <sub>7</sub> O <sub>5</sub>	-1.5			

Peaks	Rt.	MS molecular ions [M + H] <sup>+</sup> / [M-H] <sup>-</sup>			MSE fragment ions			Identification	Class	Plant Parts
NO.	(min)	m/z	M.F.	ppm	m/z	M.F.	ppm	[Ref.]		
12	2.969	539.0970	C <sub>30</sub> H <sub>19</sub> O <sub>10</sub>	-1.5	415.0821	C <sub>24</sub> H <sub>15</sub> O <sub>7</sub>	0.7	amentoflavone [9]	biflavonoid	leaf
					387.0879	C <sub>23</sub> H <sub>15</sub> O <sub>6</sub>	2.6			
		537.0814	C <sub>30</sub> H <sub>17</sub> O <sub>10</sub>	-1.5	443.0392	C <sub>24</sub> H <sub>11</sub> O <sub>9</sub>	-2.5			
13	3.382	553.1123	C <sub>31</sub> H <sub>21</sub> O <sub>10</sub>	-2.2	431.0752	C <sub>24</sub> H <sub>15</sub> O <sub>8</sub>	-3.5	sotetsuflavone [10]	biflavonoid	leaf, branch
					403.0445	C <sub>22</sub> H <sub>11</sub> O <sub>8</sub>	-2.2			
		551.0977	C <sub>31</sub> H <sub>19</sub> O <sub>10</sub>	-0.2	429.0602	C <sub>24</sub> H <sub>13</sub> O <sub>8</sub>	-1.9			
					331.0621	C <sub>20</sub> H <sub>11</sub> O <sub>5</sub>	4.5			
14	3.450	-	-	-	-	-	-	-	xanthone	stem bark
		669.1609	C <sub>36</sub> H <sub>29</sub> O <sub>13</sub>	0.1	409.1281	C <sub>23</sub> H <sub>21</sub> O <sub>7</sub>	-1.5			
					391.1173	C <sub>23</sub> H <sub>19</sub> O <sub>6</sub>	-2.3			
					259.0242	C <sub>13</sub> H <sub>7</sub> O <sub>6</sub>	-0.4			
15	3.548	595.1428	C <sub>30</sub> H <sub>27</sub> O <sub>13</sub>	-4	-	-	-	tiliroside [11]	flavonoid	leaf
		593.1274	C <sub>30</sub> H <sub>25</sub> O <sub>13</sub>	-3.5	-	-	-			
16	3.668	311.1869	C <sub>17</sub> H <sub>27</sub> O <sub>5</sub>	3.5	-	-	-	unknown		fruit, branch, stem
		309.1717	C <sub>17</sub> H <sub>25</sub> O <sub>5</sub>	4.9	-	-	-			bark
17	3.864	295.1918	C <sub>17</sub> H <sub>27</sub> O <sub>4</sub>	3	-	-	-	tanacetol A [12]	benzophenone	fruit, leaf, stem bark
		293.1763	C <sub>17</sub> H <sub>25</sub> O <sub>4</sub>	3.4	-	-	-			
18	3.864	339.1250	C <sub>20</sub> H <sub>19</sub> O <sub>5</sub>	5.3	283.0621	C <sub>16</sub> H <sub>11</sub> O <sub>5</sub>	5.3	6-prenylapigenin [13]	flavonoid	stem bark
		337.1085	C <sub>20</sub> H <sub>17</sub> O <sub>5</sub>	2.7	293.0445	C <sub>17</sub> H <sub>9</sub> O <sub>5</sub>	-1.7			
					281.0456	C <sub>16</sub> H <sub>9</sub> O <sub>5</sub>	2.1			
19	4.064	343.1182	C <sub>19</sub> H <sub>19</sub> O <sub>6</sub>	5.8	287.0569	C <sub>15</sub> H <sub>11</sub> O <sub>6</sub>	4.5	9H-xanthen-9-one, 1,4,	xanthone	stem bark
					215.0346	C <sub>12</sub> H <sub>7</sub> O <sub>4</sub>	0.9	6-trihydroxy-5-methoxy		
		341.1033	C <sub>19</sub> H <sub>17</sub> O <sub>6</sub>	2.3	285.0399	C <sub>15</sub> H <sub>9</sub> O <sub>6</sub>	0	-7-(3-methyl-2-buten-1-yl)-[14]		
20	4.099	653.1633	C <sub>36</sub> H <sub>29</sub> O <sub>12</sub>	-3.2	597.1015	C <sub>32</sub> H <sub>21</sub> O <sub>12</sub>	-3	garmoxanthone	xanthone	stem bark

Peaks NO.	Rt. (min)	MS molecular ions [M + H] <sup>+</sup> / [M-H] <sup>-</sup>			MSE fragment ions			Identification [Ref.]	Class	Plant Parts
		<i>m/z</i>	M.F.	ppm	<i>m/z</i>	M.F.	ppm			
		651.1494	C <sub>36</sub> H <sub>27</sub> O <sub>12</sub>	-1.4	391.1173	C <sub>23</sub> H <sub>19</sub> O <sub>6</sub>	-2.3	[15]		
					259.0240	C <sub>13</sub> H <sub>7</sub> O <sub>6</sub>	-1.2			
21	5.028	-	-	-	-	-	-	unknown		fruit, leaf, branch, stem bark
		311.1691	C <sub>13</sub> H <sub>27</sub> O <sub>8</sub>	-4.8	-	-	-			
22	5.080	301.1430	C <sub>18</sub> H <sub>21</sub> O <sub>4</sub>	-3.3	-	-	-	bractebiphenyl B [16]	biphenyl	fruit, leaf, branch, stem bark
		-	-	-	-	-	-			
23	5.212	535.3640	C <sub>31</sub> H <sub>51</sub> O <sub>7</sub>	0.9	557.3443	C <sub>31</sub> H <sub>50</sub> O <sub>7</sub> Na	-2.0	unknown		seed
					359.2241	C <sub>22</sub> H <sub>31</sub> O <sub>4</sub>	5.3			
					301.1427	C <sub>18</sub> H <sub>21</sub> O <sub>4</sub>	-4.3			
					227.2026	C <sub>14</sub> H <sub>27</sub> O <sub>2</sub>	6.6			
		533.3484	C <sub>31</sub> H <sub>49</sub> O <sub>7</sub>	1.1	501.3204	C <sub>30</sub> H <sub>45</sub> O <sub>6</sub>	-2.4			
					421.2219	C <sub>23</sub> H <sub>33</sub> O <sub>7</sub>	-1.7			
24	5.332	417.2656	C <sub>25</sub> H <sub>37</sub> O <sub>5</sub>	3.6	439.2458	C <sub>25</sub> H <sub>36</sub> O <sub>5</sub> Na	-0.2	garcinielliptone HC or	benzofurandio	seed
					329.1763	C <sub>20</sub> H <sub>25</sub> O <sub>4</sub>	3.0	garcinielliptone HD	ne	
					301.1424	C <sub>18</sub> H <sub>21</sub> O <sub>4</sub>	-5.3	[17]		
					275.1300	C <sub>16</sub> H <sub>19</sub> O <sub>4</sub>	6.2			
					257.1180	C <sub>16</sub> H <sub>17</sub> O <sub>3</sub>	0.8			
		415.2493	C <sub>25</sub> H <sub>35</sub> O <sub>5</sub>	2.2	345.1709	C <sub>20</sub> H <sub>25</sub> O <sub>5</sub>	2			
					303.1236	C <sub>17</sub> H <sub>19</sub> O <sub>5</sub>	1.3			
					287.1289	C <sub>17</sub> H <sub>19</sub> O <sub>4</sub>	2.1			
					219.0660	C <sub>12</sub> H <sub>11</sub> O <sub>4</sub>	1.4			
25	5.613	517.3531	C <sub>31</sub> H <sub>49</sub> O <sub>6</sub>	0.4	539.3344	C <sub>31</sub> H <sub>48</sub> O <sub>6</sub> Na	-0.9	Garcihombronane L	friedolanostane	seed
					359.2239	C <sub>22</sub> H <sub>31</sub> O <sub>4</sub>	4.7	[18]		
					291.1612	C <sub>17</sub> H <sub>23</sub> O <sub>4</sub>	5.5			

Peaks	Rt.	MS molecular ions [M + H] <sup>+</sup> / [M-H] <sup>-</sup>			MSE fragment ions			Identification	Class	Plant Parts
NO.	(min)	m/z	M.F.	ppm	m/z	M.F.	ppm	[Ref.]		
26	5.746	515.3381	C <sub>31</sub> H <sub>47</sub> O <sub>6</sub>	1.6	403.2114	C <sub>23</sub> H <sub>31</sub> O <sub>6</sub>	-1.7	unknown		seed
					289.1443	C <sub>17</sub> H <sub>21</sub> O <sub>4</sub>	1.0			
					221.0819	C <sub>12</sub> H <sub>13</sub> O <sub>4</sub>	2.3			
		431.2810	C <sub>26</sub> H <sub>39</sub> O <sub>5</sub>	3	453.2633	C <sub>26</sub> H <sub>38</sub> O <sub>5</sub> Na	3.5			
		429.2654	C <sub>26</sub> H <sub>37</sub> O <sub>5</sub>	3	317.1391	C <sub>18</sub> H <sub>21</sub> O <sub>5</sub>	0.6			
					301.1445	C <sub>18</sub> H <sub>21</sub> O <sub>4</sub>	1.7			
27	5.963				233.0817	C <sub>13</sub> H <sub>13</sub> O <sub>4</sub>	1.3	garcinixanthone E [19]	xanthone	stem bark
		465.2289	C <sub>28</sub> H <sub>33</sub> O <sub>6</sub>	2.6	409.1667	C <sub>24</sub> H <sub>25</sub> O <sub>6</sub>	3.9			
					353.1041	C <sub>20</sub> H <sub>17</sub> O <sub>6</sub>	4.5			
					311.0562	C <sub>17</sub> H <sub>11</sub> O <sub>6</sub>	1.9			
		463.2126	C <sub>28</sub> H <sub>31</sub> O <sub>6</sub>	1.1	407.1485	C <sub>24</sub> H <sub>23</sub> O <sub>6</sub>	-2.5			
					365.1017	C <sub>21</sub> H <sub>17</sub> O <sub>6</sub>	-2.2			
28	6.027	523.2562	C <sub>27</sub> H <sub>39</sub> O <sub>10</sub>	3.6	479.2293	C <sub>25</sub> H <sub>35</sub> O <sub>9</sub>	2.5	unknown		fruit, branch, stem bark
					435.2028	C <sub>23</sub> H <sub>31</sub> O <sub>8</sub>	2.1			
					301.2417	C <sub>18</sub> H <sub>21</sub> O <sub>4</sub>	-4.3			
		-	-	-	-	-	-			
29	6.095	485.2914	C <sub>29</sub> H <sub>41</sub> O <sub>6</sub>	2.3	507.2731	C <sub>29</sub> H <sub>40</sub> O <sub>6</sub> Na	1.6	9H-Xanthen-9-one, 1,3-dihydroxy-7-methoxy-2,8-bis(3-methylbutyl)-6-(pentyloxy)-	xanthone	fruit, branch, stem bark
		-	-	-	-	-	-			
30	6.526	517.3532	C <sub>31</sub> H <sub>49</sub> O <sub>6</sub>	0.6	539.3342	C <sub>31</sub> H <sub>48</sub> O <sub>6</sub> Na	-1.3	garcihombronane L [18]	friedolanostane	seed
					375.2182	C <sub>22</sub> H <sub>31</sub> O <sub>5</sub>	2.9			
					291.1610	C <sub>17</sub> H <sub>23</sub> O <sub>4</sub>	4.8			
					219.1032	C <sub>13</sub> H <sub>15</sub> O <sub>3</sub>	5.0			

Peaks NO.	Rt. (min)	MS molecular ions [M + H] <sup>+</sup> / [M-H] <sup>-</sup>			MSE fragment ions			Identification [Ref.]	Class	Plant Parts
		<i>m/z</i>	M.F.	ppm	<i>m/z</i>	M.F.	ppm			
31	6.595	515.3384	C <sub>31</sub> H <sub>47</sub> O <sub>6</sub>	2.1	403.2116	C <sub>23</sub> H <sub>31</sub> O <sub>6</sub>	-1.2	garciosaterpene E or its isomers [20]		seed
					289.1446	C <sub>17</sub> H <sub>21</sub> O <sub>4</sub>	2.1			
					247.0977	C <sub>14</sub> H <sub>15</sub> O <sub>4</sub>	2.8			
		487.3430	C <sub>30</sub> H <sub>47</sub> O <sub>5</sub>	1.4	509.3241	C <sub>30</sub> H <sub>46</sub> O <sub>5</sub> Na	-0.4			
					363.2181	C <sub>21</sub> H <sub>31</sub> O <sub>5</sub>	2.8			
					277.1455	C <sub>17</sub> H <sub>23</sub> O <sub>3</sub>	2.9			
					219.1034	C <sub>13</sub> H <sub>15</sub> O <sub>3</sub>	5.9			
		485.3279	C <sub>30</sub> H <sub>45</sub> O <sub>5</sub>	2.5	373.2012	C <sub>22</sub> H <sub>29</sub> O <sub>5</sub>	-0.8			
					275.1290	C <sub>16</sub> H <sub>19</sub> O <sub>4</sub>	2.5			
					233.0820	C <sub>13</sub> H <sub>13</sub> O <sub>4</sub>	2.6			
32	6.628	503.3373	C <sub>30</sub> H <sub>47</sub> O <sub>6</sub>	0	-	-	-	garcinielliptone E [21]	triterpenoid	leaf, branch, seed
		501.3220	C <sub>30</sub> H <sub>45</sub> O <sub>6</sub>	0.8	389.1955	C <sub>22</sub> H <sub>29</sub> O <sub>6</sub>	-2.3			
					275.1284	C <sub>16</sub> H <sub>19</sub> O <sub>4</sub>	0.4			
					233.0810	C <sub>13</sub> H <sub>13</sub> O <sub>4</sub>	-1.7			
33	6.646	503.3378	C <sub>30</sub> H <sub>47</sub> O <sub>6</sub>	1	525.3163	C <sub>30</sub> H <sub>46</sub> O <sub>6</sub> Na	-5.5	garcinielliptone C [22]	phloroglucinol	seed
		501.3222	C <sub>30</sub> H <sub>45</sub> O <sub>6</sub>	1.2	347.1860	C <sub>20</sub> H <sub>27</sub> O <sub>5</sub>	0.6			
					289.1444	C <sub>17</sub> H <sub>21</sub> O <sub>4</sub>	1.4			
34	6.692	515.3376	C <sub>31</sub> H <sub>47</sub> O <sub>6</sub>	0.6	537.3181	C <sub>31</sub> H <sub>46</sub> O <sub>6</sub> NaC	-2	cholesta-8(14),24-dien- 26-oic acid, 9,23- dihydroxy-4,4,17- trimethyl-3,15-dioxo-, methyl ester, (5 $\alpha$ ,13 $\alpha$ , 17 $\alpha$ ,23R,24E)-(9CI) [23]	phloroglucinol	seed
					343.1928	C <sub>21</sub> H <sub>27</sub> O <sub>4</sub>	5.5			
					325.1813	C <sub>21</sub> H <sub>25</sub> O <sub>3</sub>	2.8			
					271.1345	C <sub>17</sub> H <sub>19</sub> O <sub>3</sub>	4.1			
		513.3221	C <sub>31</sub> H <sub>45</sub> O <sub>6</sub>	1	485.3255	C <sub>30</sub> H <sub>45</sub> O <sub>5</sub>	-2.5			
					359.1856	C <sub>21</sub> H <sub>27</sub> O <sub>5</sub>	-0.6			
					289.1443	C <sub>17</sub> H <sub>21</sub> O <sub>4</sub>	1.0			
35	6.744	465.2286	C <sub>28</sub> H <sub>33</sub> O <sub>6</sub>	1.9	-	-	-	isogarciniaxanthone E	xanthone	stem bark

Peaks NO.	Rt. (min)	MS molecular ions [M + H] <sup>+</sup> / [M-H] <sup>-</sup>			MSE fragment ions			Identification [Ref.]	Class	Plant Parts
		<i>m/z</i>	M.F.	ppm	<i>m/z</i>	M.F.	ppm			
		463.2128	C <sub>28</sub> H <sub>31</sub> O <sub>6</sub>	1.5	351.0858	C <sub>20</sub> H <sub>15</sub> O <sub>6</sub>	-3.1	[24]		
					323.0550	C <sub>18</sub> H <sub>11</sub> O <sub>6</sub>	-1.9			
36	6.944	485.3291	C <sub>30</sub> H <sub>45</sub> O <sub>5</sub>	4.9	507.3085	C <sub>30</sub> H <sub>44</sub> O <sub>5</sub> Na	-0.2	garcinielliptone L [25]	phloroglucinol	seed
		483.3117	C <sub>30</sub> H <sub>43</sub> O <sub>5</sub>	1.4	415.2477	C <sub>25</sub> H <sub>35</sub> O <sub>5</sub>	-1.7	or garsubelline A [26]		
					355.1906	C <sub>22</sub> H <sub>27</sub> O <sub>4</sub>	-0.8			
					287.1285	C <sub>17</sub> H <sub>19</sub> O <sub>4</sub>	0.7			
					259.0974	C <sub>15</sub> H <sub>15</sub> O <sub>4</sub>	1.5			
37	6.996	485.3223	C <sub>30</sub> H <sub>45</sub> O <sub>5</sub>	-9.1	-	-	-	garcinielliptone F [27]	phloroglucinol	fruit, leaf, branch,
		483.3112	C <sub>30</sub> H <sub>43</sub> O <sub>5</sub>	1.2	329.1752	C <sub>20</sub> H <sub>25</sub> O <sub>4</sub>	-0.3			stem bark, seed
					287.1291	C <sub>17</sub> H <sub>19</sub> O <sub>4</sub>	2.8			
					219.0658	C <sub>12</sub> H <sub>11</sub> O <sub>4</sub>	0.5			
38	7.191	501.3572	C <sub>31</sub> H <sub>49</sub> O <sub>5</sub>	-1.6	-	-	-	garcinielliptone D [25]	phloroglucinol	fruit, seed
		499.3426	C <sub>31</sub> H <sub>47</sub> O <sub>5</sub>	0.6	361.2006	C <sub>21</sub> H <sub>29</sub> O <sub>5</sub>	-2.5			
					289.1443	C <sub>17</sub> H <sub>21</sub> O <sub>4</sub>	1.0			
39	7.294	517.3530	C <sub>31</sub> H <sub>49</sub> O <sub>6</sub>	0.2	539.3336	C <sub>31</sub> H <sub>48</sub> O <sub>6</sub> Na	-2.4	garcihombronane L	friedolanostane	leaf, branch, stem bark
					375.2172	C <sub>22</sub> H <sub>31</sub> O <sub>5</sub>	0.3	[18]		
					291.1611	C <sub>17</sub> H <sub>23</sub> O <sub>4</sub>	5.2			
		515.3376	C <sub>31</sub> H <sub>47</sub> O <sub>6</sub>	0.6	403.2110	C <sub>23</sub> H <sub>31</sub> O <sub>6</sub>	-2.7			
					289.1440	C <sub>17</sub> H <sub>21</sub> O <sub>4</sub>	0.0			
					247.0969	C <sub>14</sub> H <sub>15</sub> O <sub>4</sub>	-0.4			
40	7.478	499.3422	C <sub>31</sub> H <sub>47</sub> O <sub>5</sub>	-0.2	-	-	-	garcinielliptone T [18]	phloroglucinol	fruit, leaf, branch,
		497.3266	C <sub>31</sub> H <sub>45</sub> O <sub>5</sub>	-0.2	343.1904	C <sub>21</sub> H <sub>27</sub> O <sub>4</sub>	-1.5			stem bark, seed
					301.1440	C <sub>18</sub> H <sub>21</sub> O <sub>4</sub>	0.0			
41	7.558	499.3433	C <sub>31</sub> H <sub>47</sub> O <sub>5</sub>	2	521.3253	C <sub>31</sub> H <sub>46</sub> O <sub>5</sub> Na	1.9	garsubellin B [28]	phloroglucinol	stem bark, seed
					359.2243	C <sub>22</sub> H <sub>31</sub> O <sub>4</sub>	5.8			



[illegible]

## References of Table S1

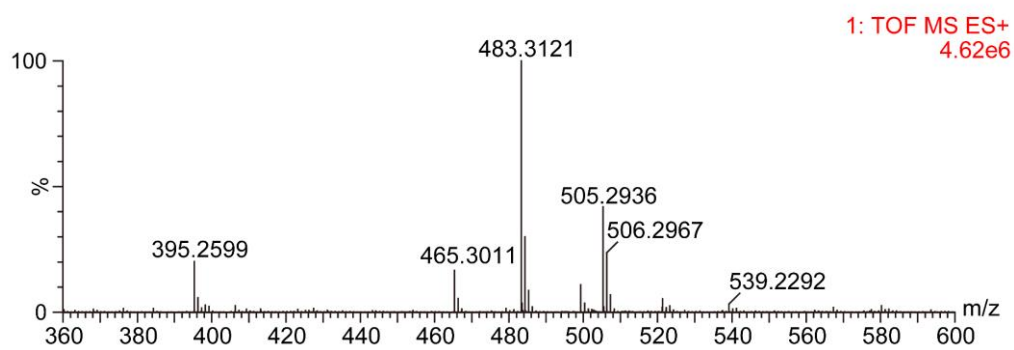
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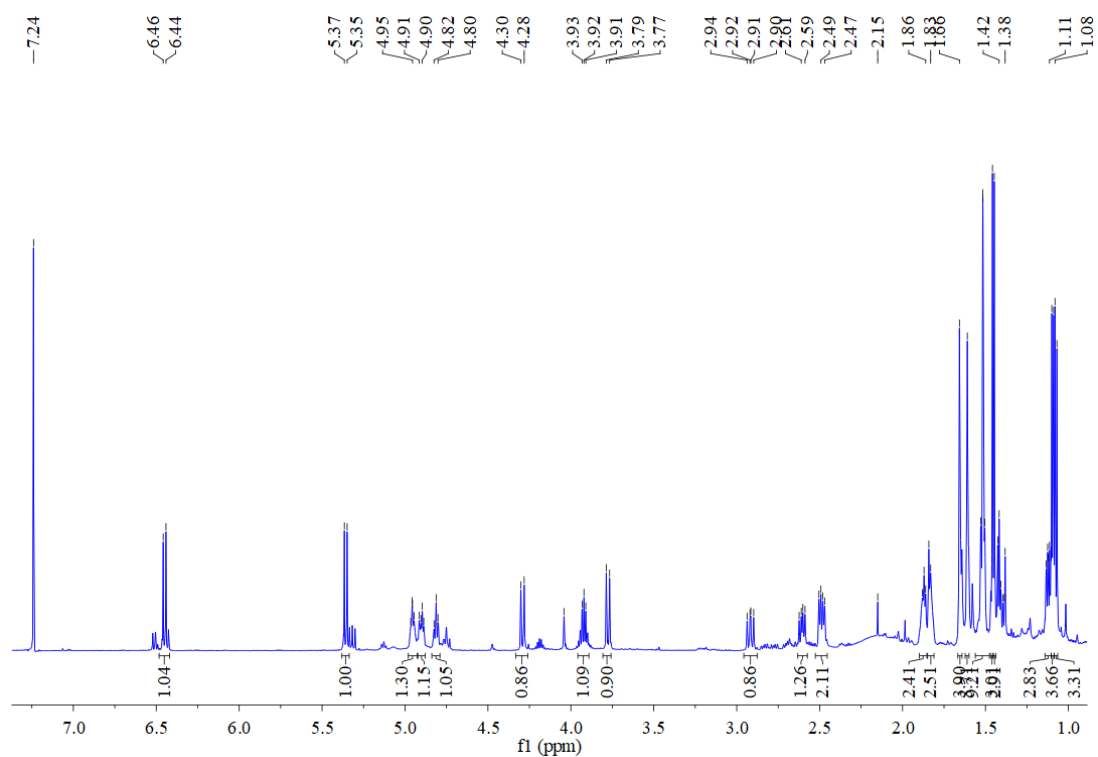
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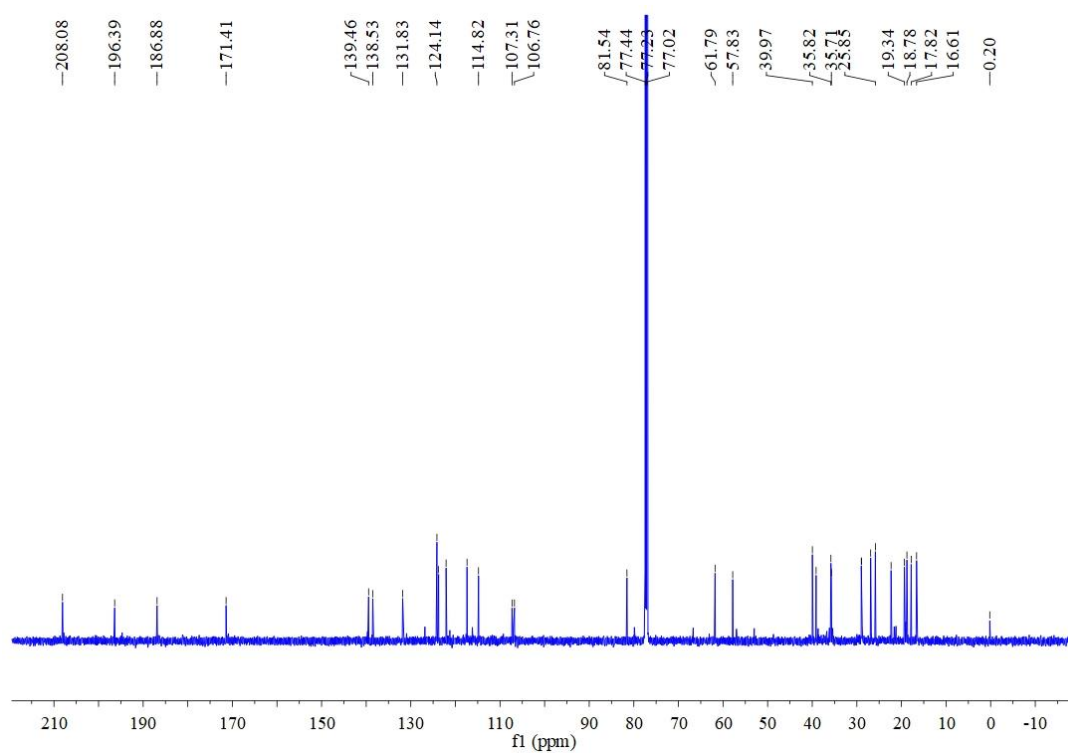
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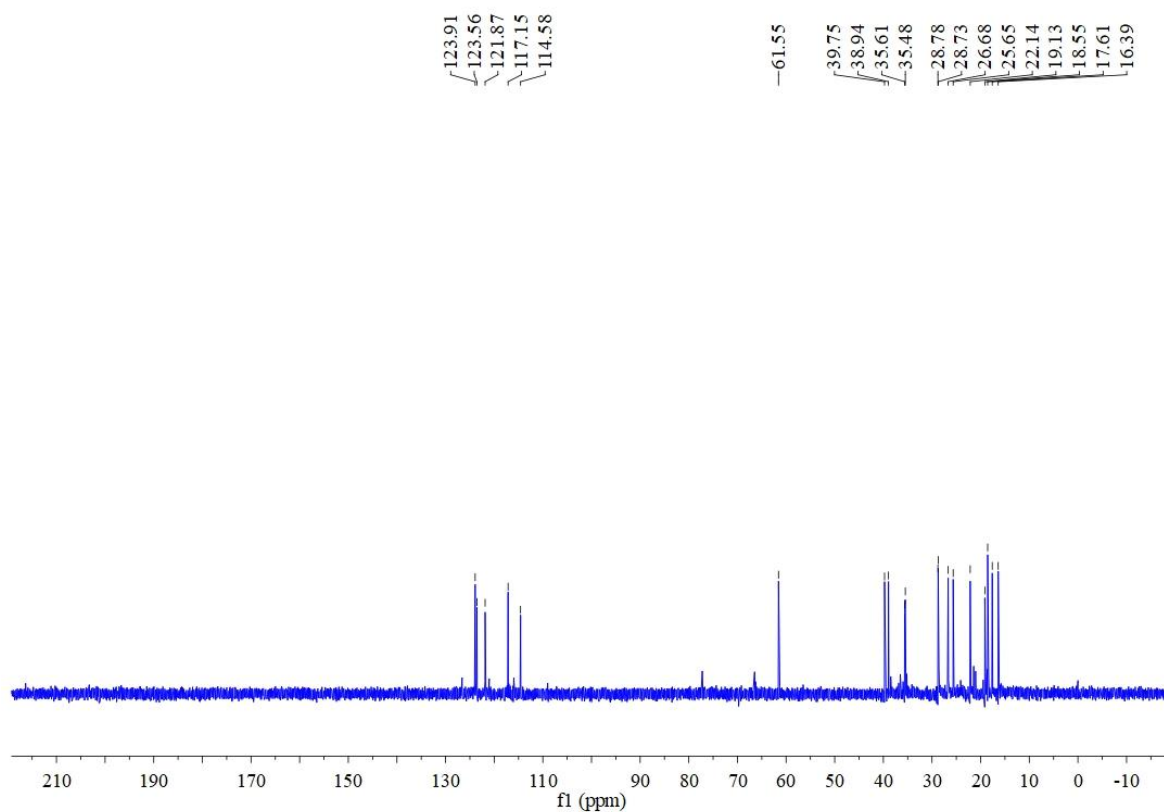
**Figure S1.** HR-ESI-MS spectrum for Garxanthochin A.



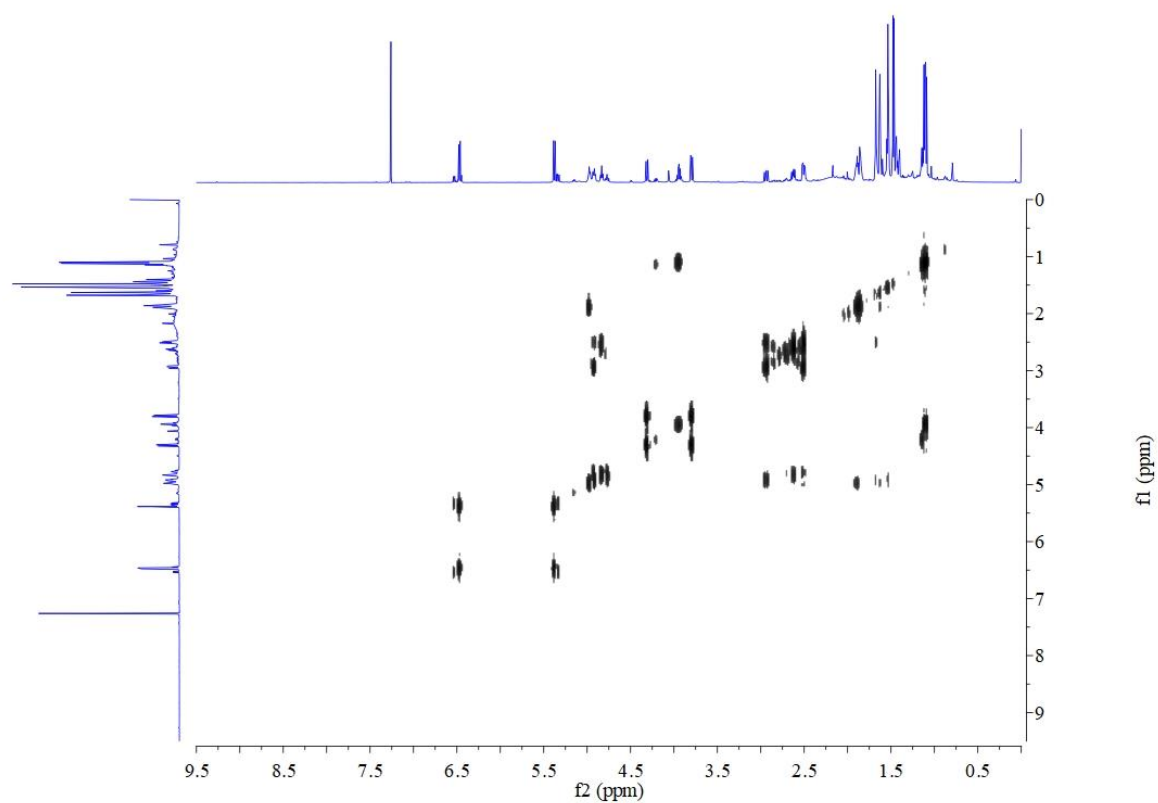
**Figure S2.**  $^1\text{H}$  NMR spectrum for Garxanthochin A in  $\text{CDCl}_3$  (600 MHz).



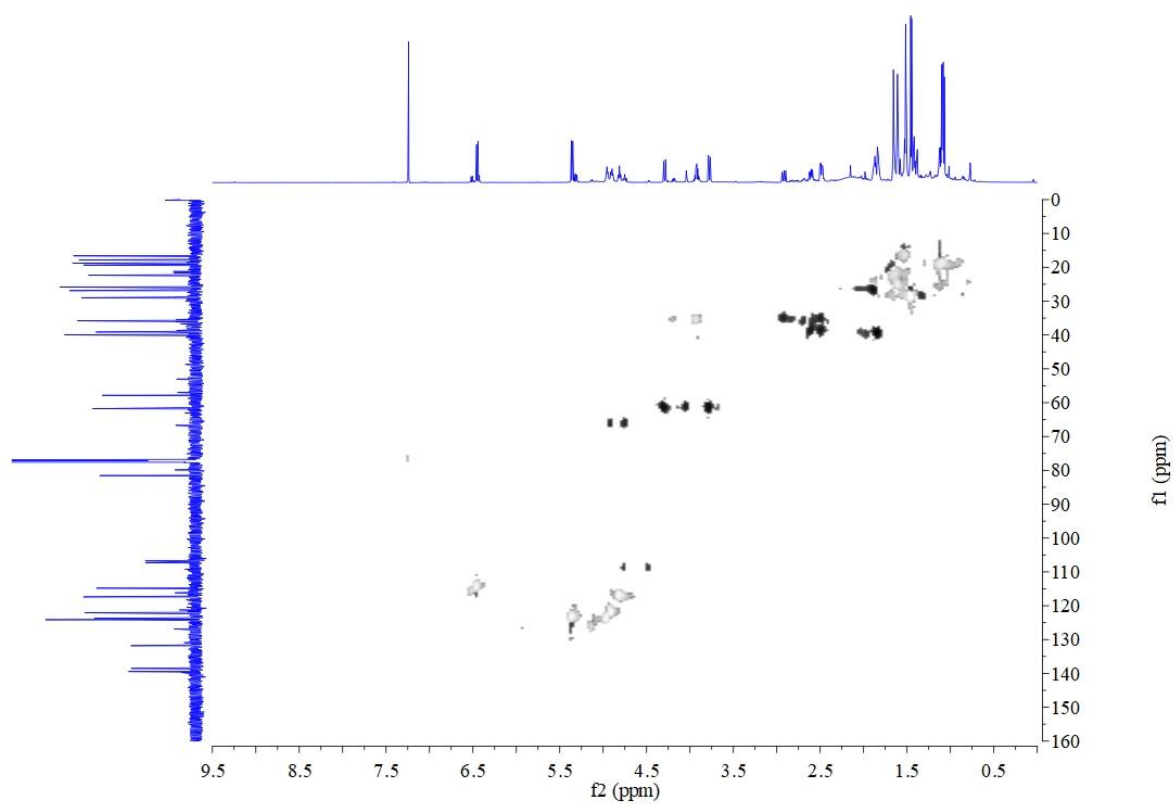
**Figure S3.**  $^{13}\text{C}$  NMR spectrum for Garxanthochin A in  $\text{CDCl}_3$  (150 MHz).



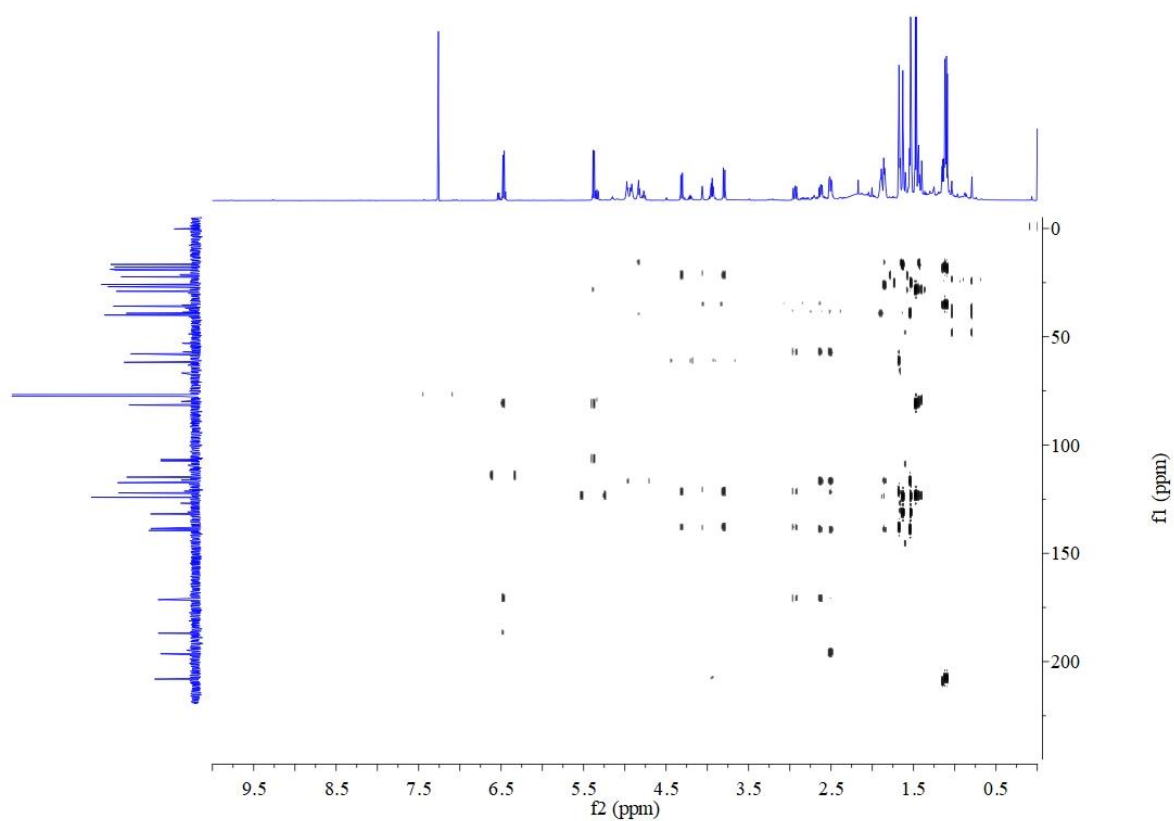
**Figure S4.** DEPT NMR spectrum for Garxanthochin A in  $\text{CDCl}_3$  (150 MHz).



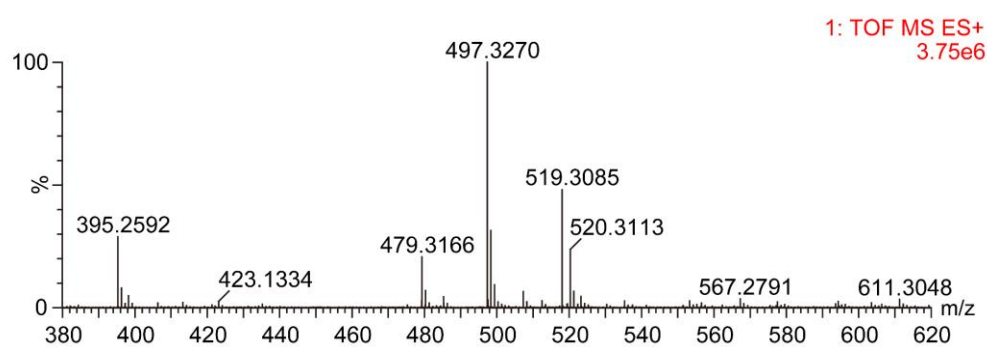
**Figure S5.**  $^1\text{H}$ - $^1\text{H}$  COSY spectrum for Garxanthochin A in  $\text{CDCl}_3$ .



**Figure S6.** HMQC spectrum for Garxanthochin A in  $\text{CDCl}_3$ .



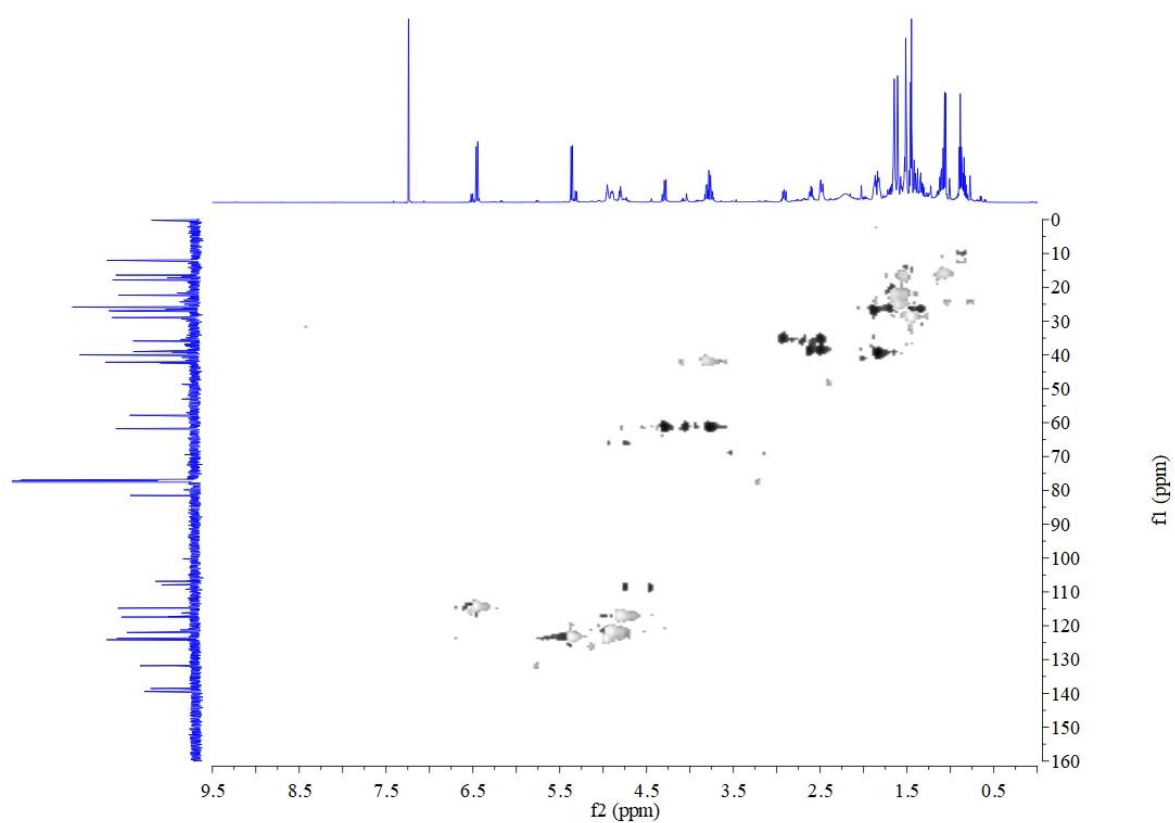
**Figure S7.** NOESY spectrum for Garxanthochin A in  $\text{CDCl}_3$ .



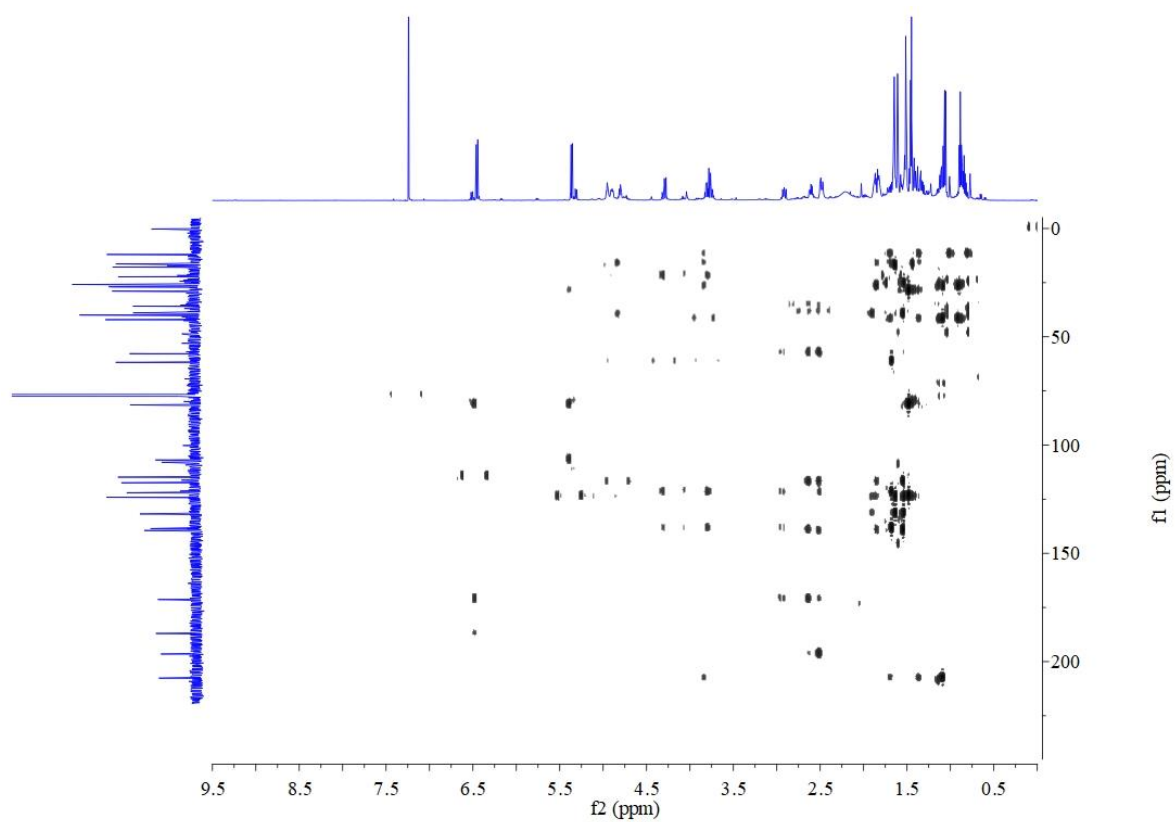
**Figure S8.** HR-ESI-MS spectrum for Garxanthochin B.



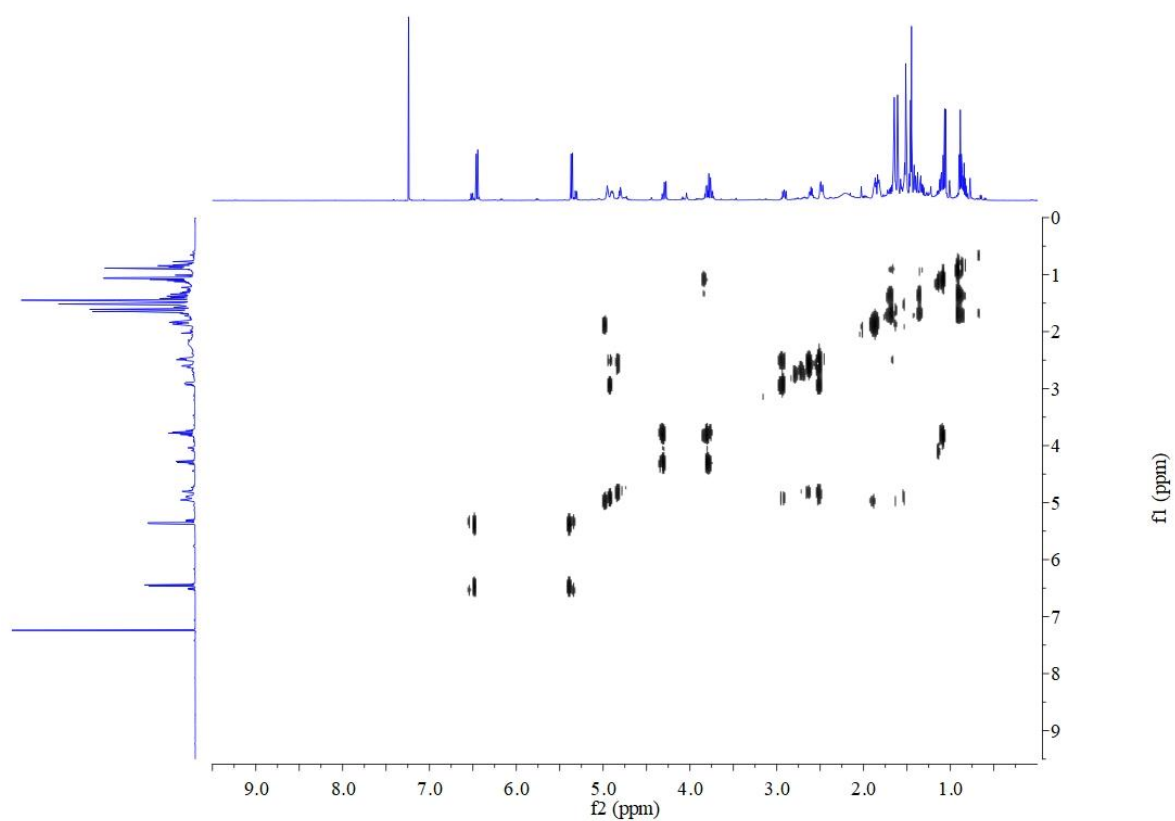




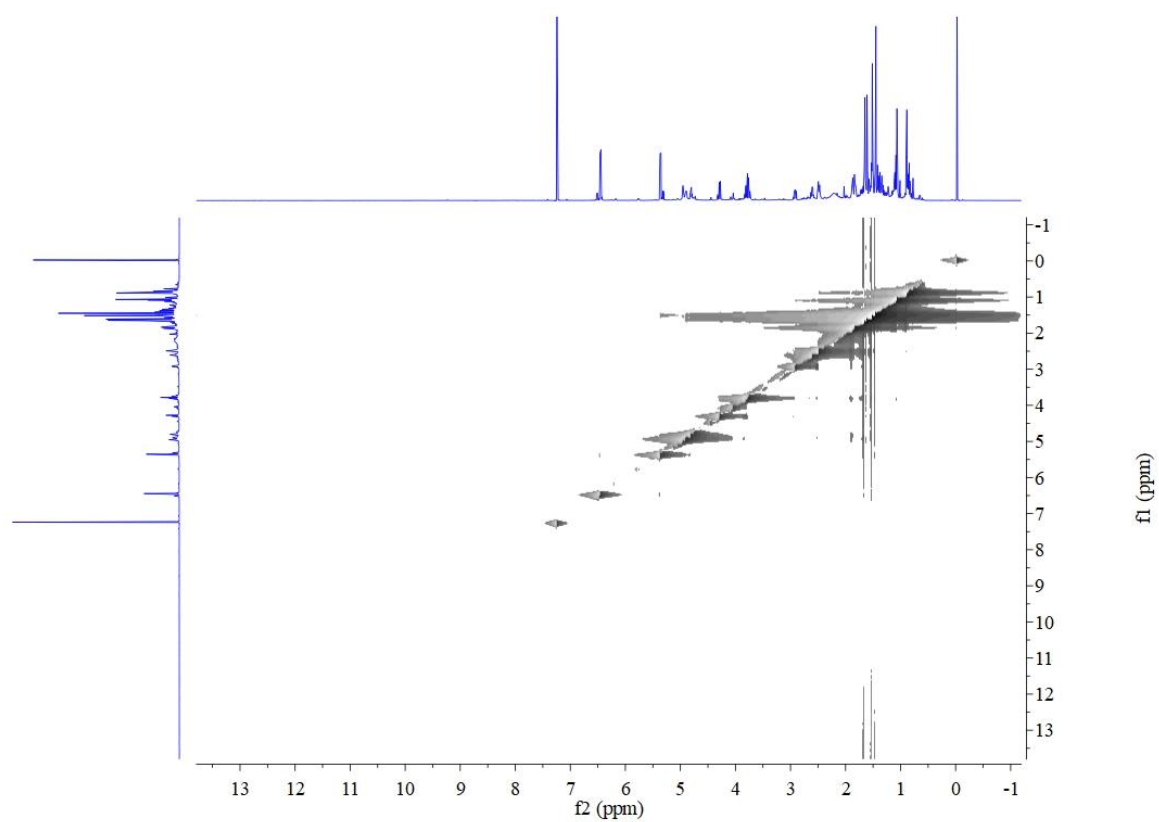
**Figure S11.** HMQC spectrum for Garxanthochin B in  $\text{CDCl}_3$ .



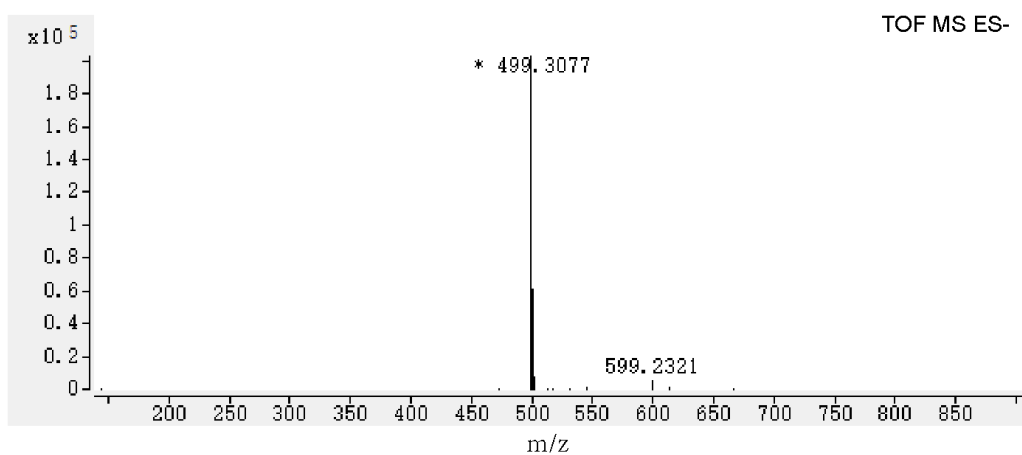
**Figure S12.** HMBC spectrum for Garxanthochin B in  $\text{CDCl}_3$ .



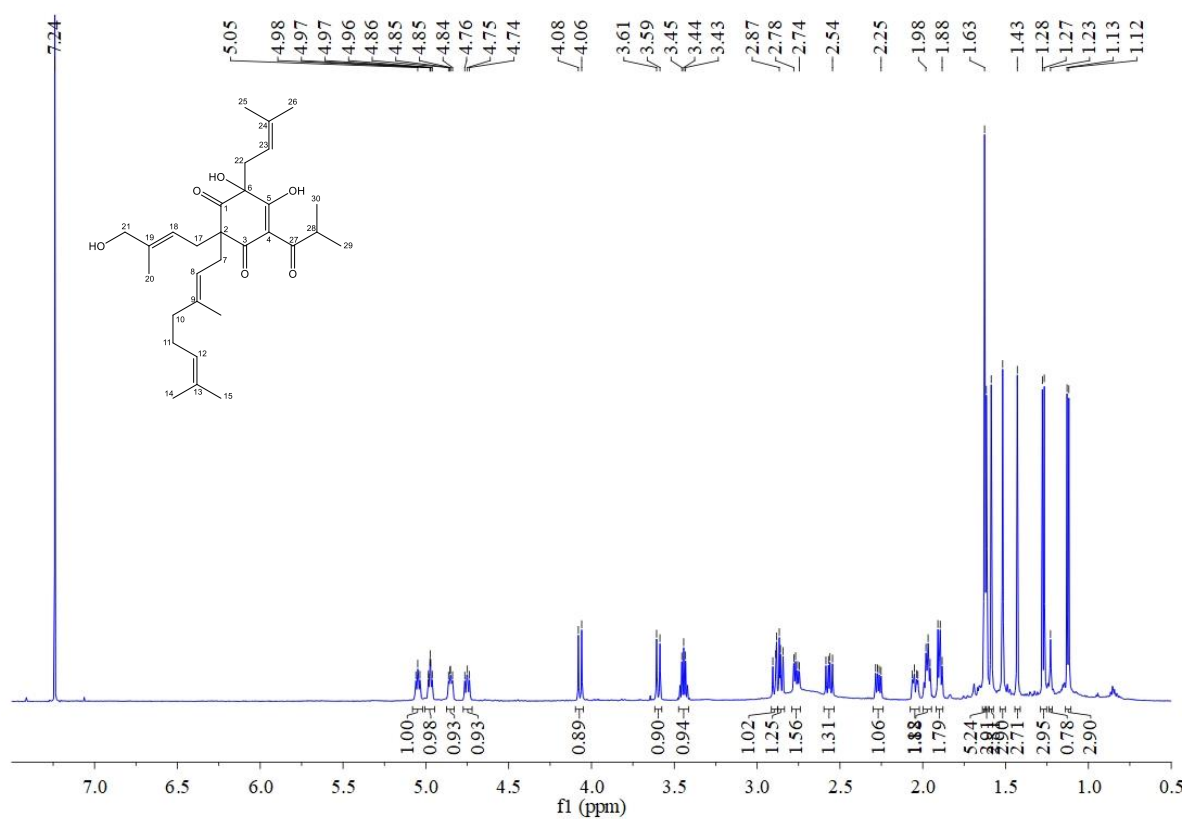
**Figure S13.**  $^1\text{H}$ - $^1\text{H}$  COSY spectrum for Garxanthochin B in  $\text{CDCl}_3$ .



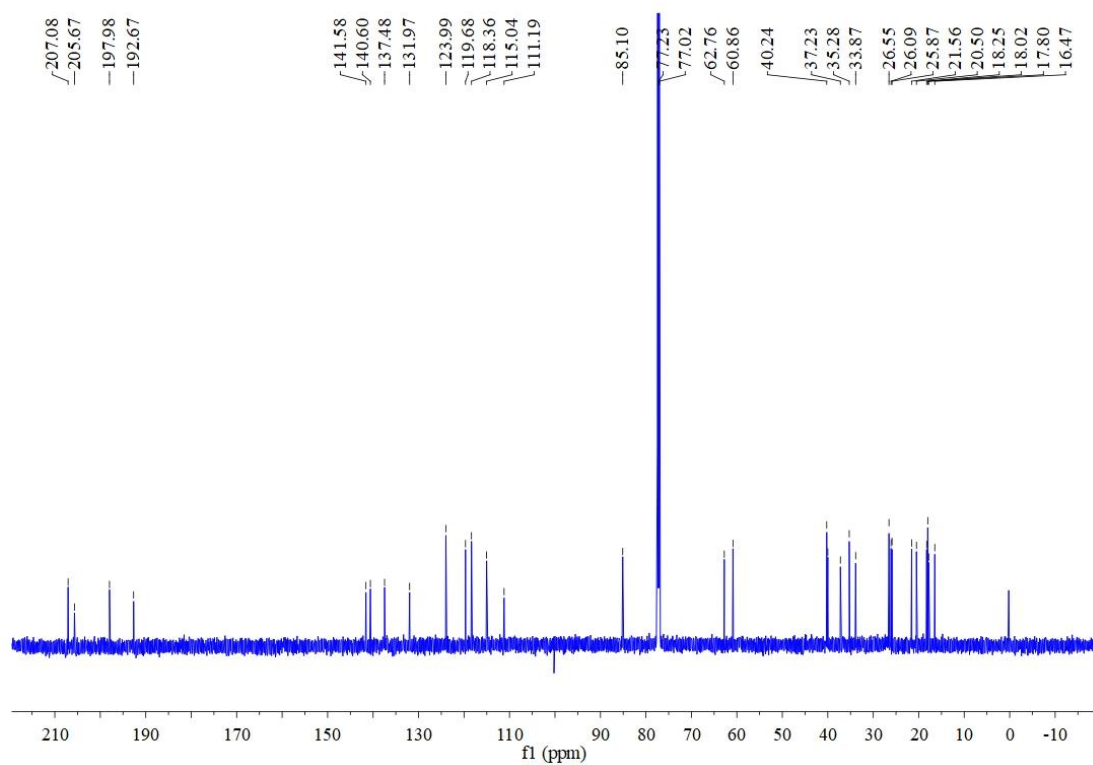
**Figure S14.** NOESY spectrum for Garxanthochin B in  $\text{CDCl}_3$ .



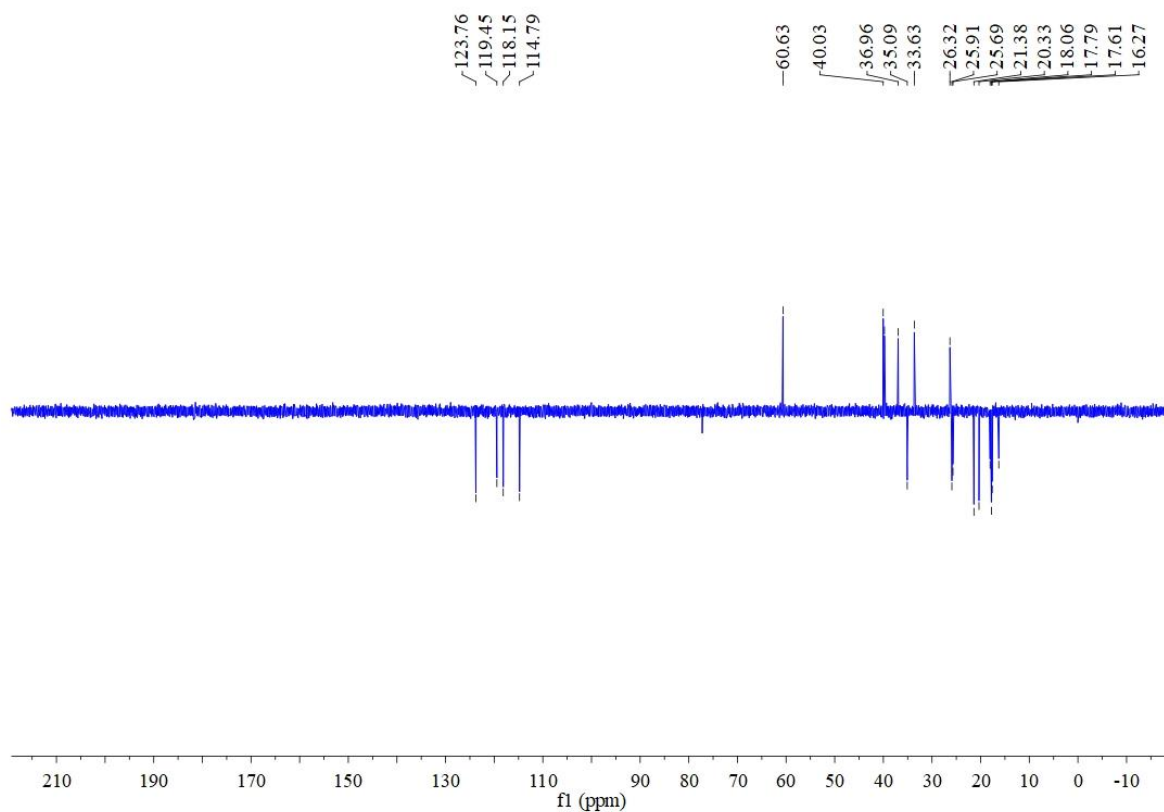
**Figure S15.** HR-ESI-MS spectrum for Garxanthochin C.



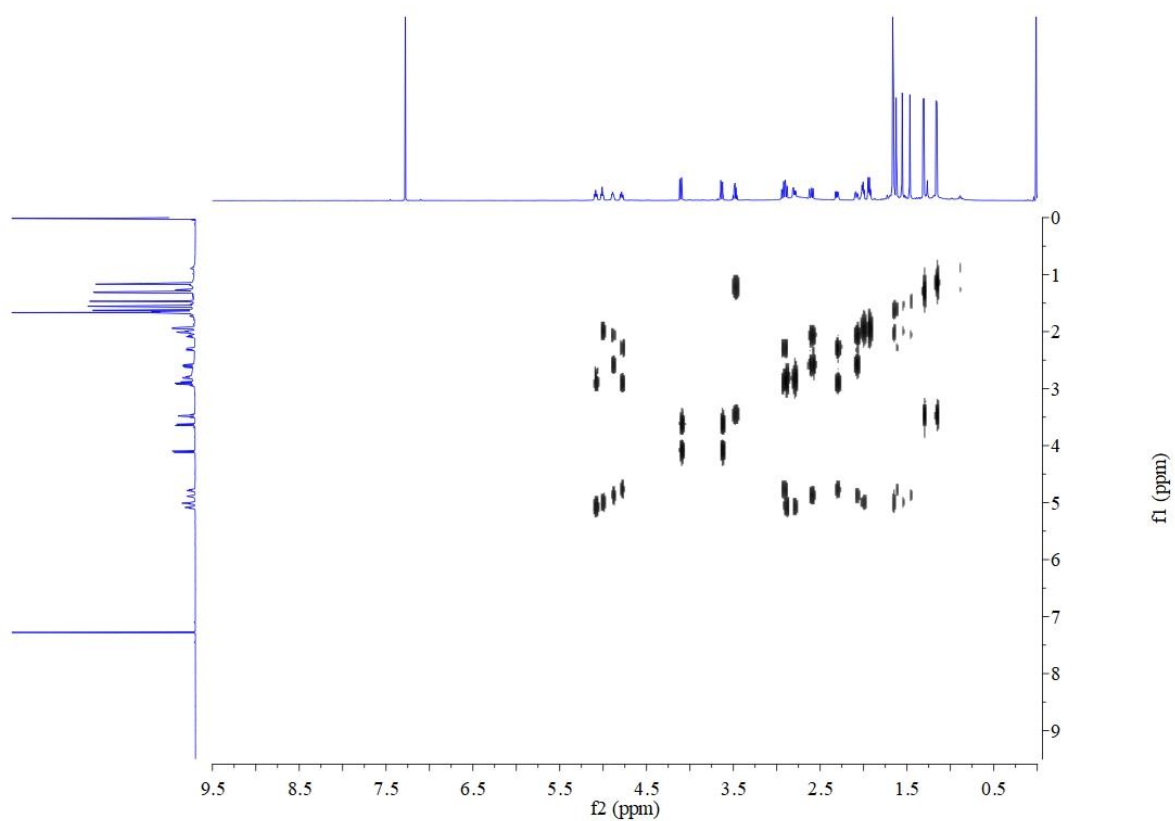
**Figure S16.**  $^1\text{H}$  NMR spectrum for Garxanthochin C in  $\text{CDCl}_3$  (600 MHz).



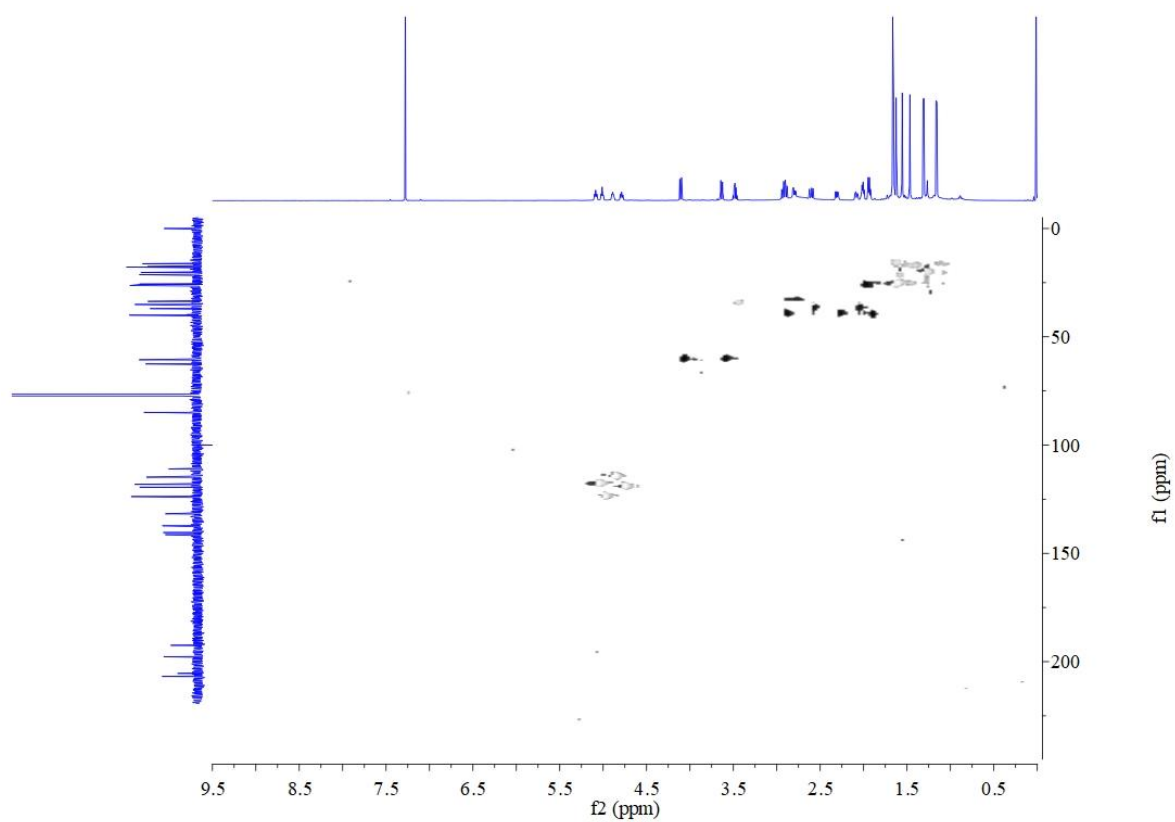
**Figure S17.**  $^{13}\text{C}$  NMR spectrum for Garxanthochin C in  $\text{CDCl}_3$  (150 MHz).



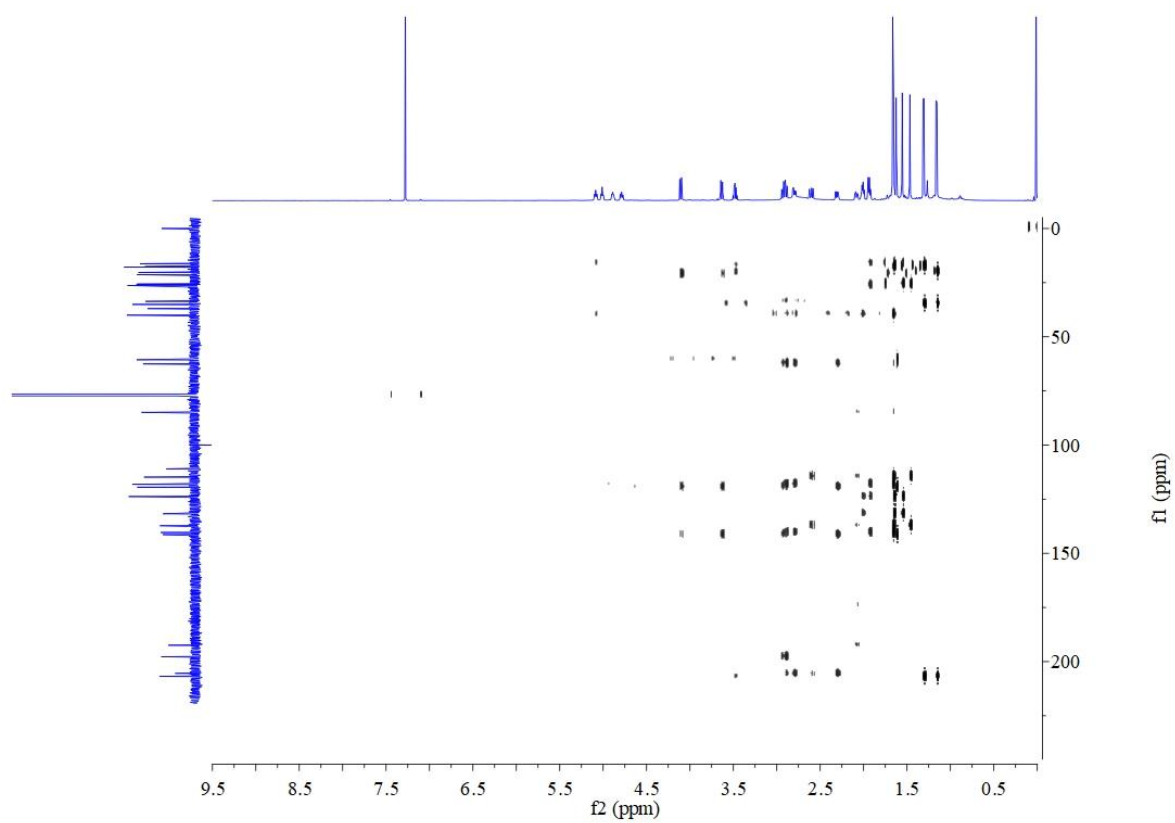
**Figure S18.** DEPT NMR spectrum for Garxanthochin C in  $\text{CDCl}_3$  (150 MHz).



**Figure S19.**  $^1\text{H}$ - $^1\text{H}$  COSY spectrum for Garxanthochin C in  $\text{CDCl}_3$ .



**Figure S20.** HMQC spectrum for Garxanthochin C in  $\text{CDCl}_3$ .



**Figure S21.** HMBC spectrum for Garxanthochin C in  $\text{CDCl}_3$ .