

## Supplementary Information

# Synthesis and evaluation of mosquito larvicidal activity of pongamol and lanceolatin B

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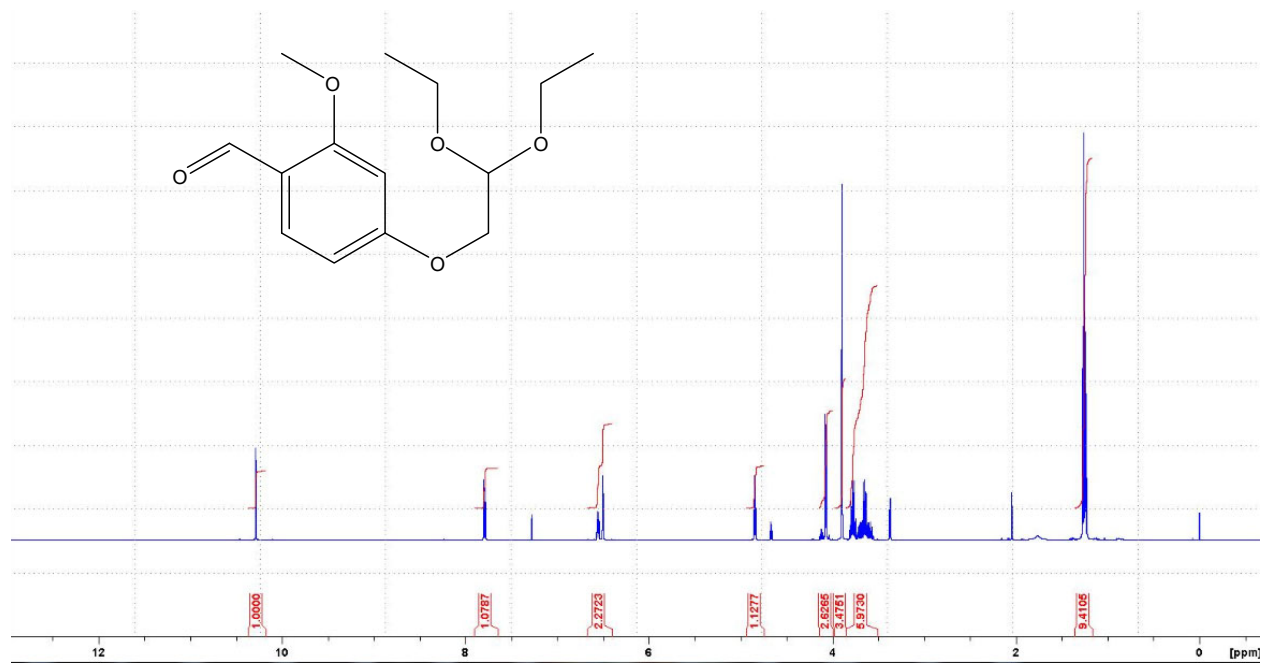


Fig. S1 — <sup>1</sup>H-NMR spectrum of Compound 2

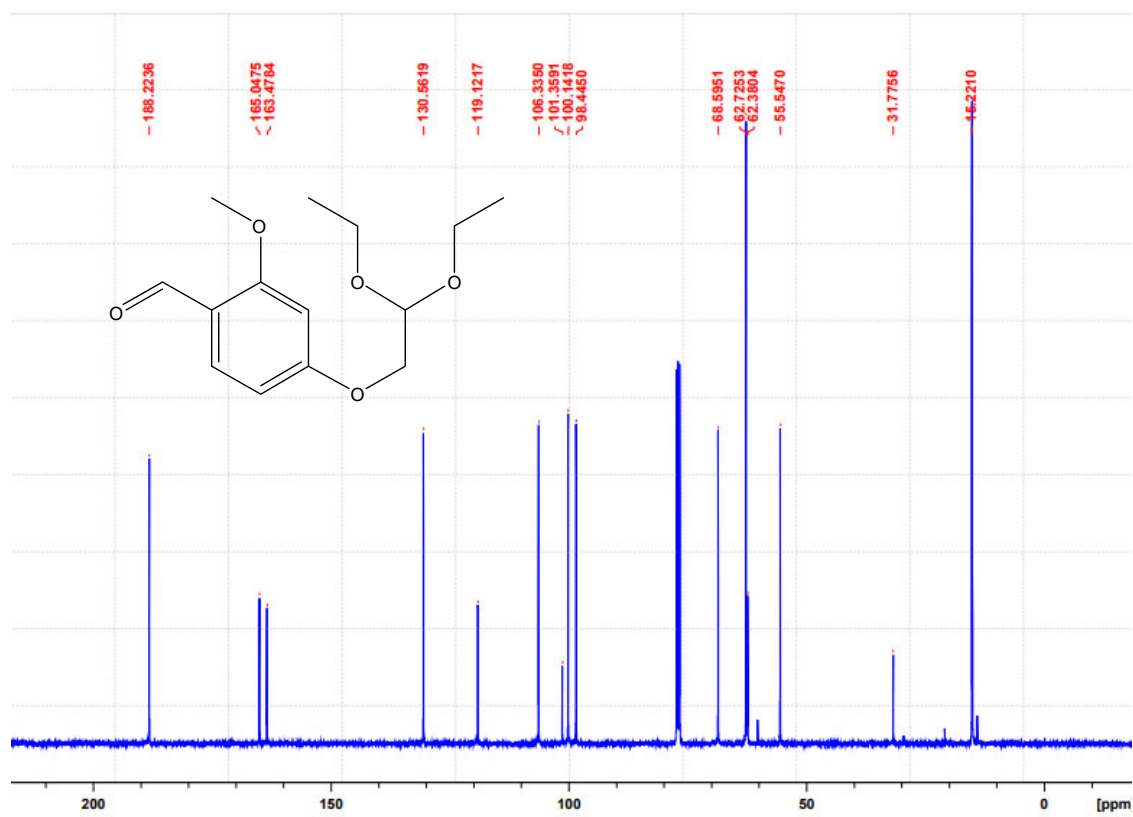


Fig. S2 — <sup>13</sup>C-NMR spectrum Compound 2

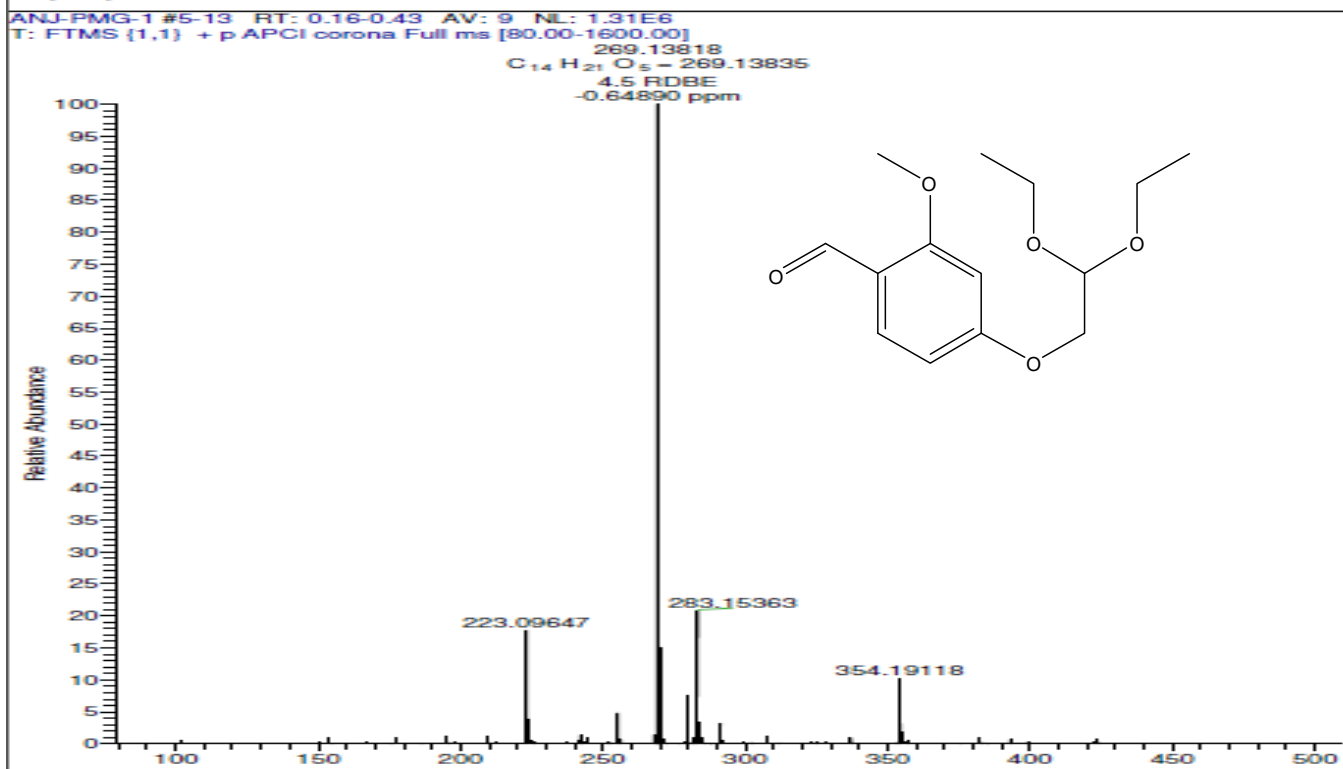


Fig. S3 — HRMS of Compound 2

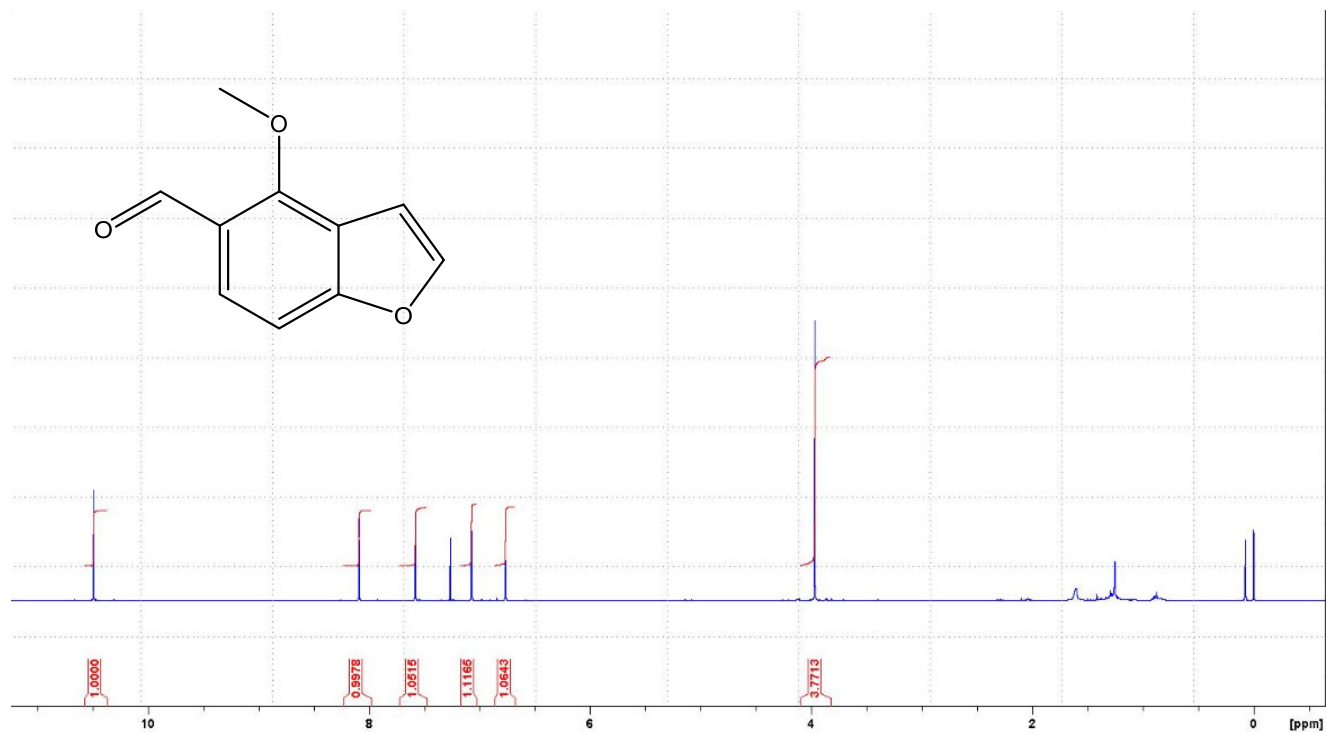


Fig. S4 — <sup>1</sup>H-NMR spectrum of Compound 3a

3a

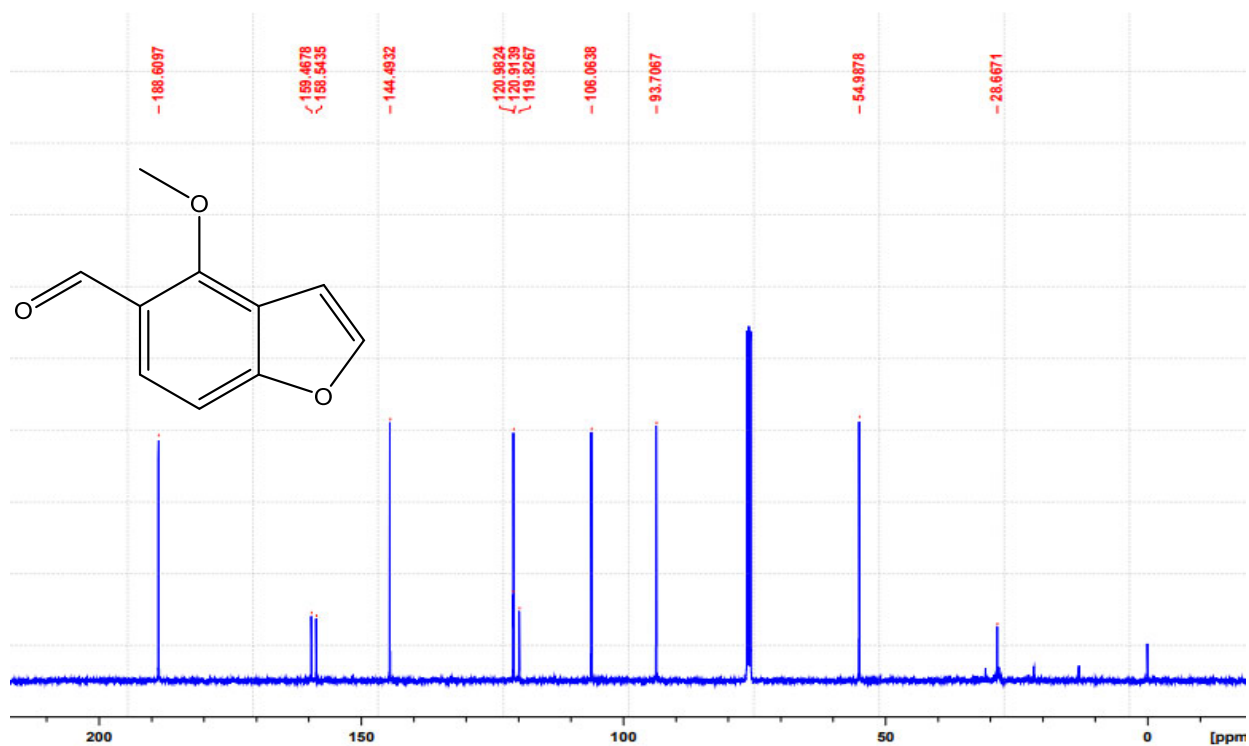


Fig. S5 —  $^{13}\text{C-NMR}$  spectrum of Compound 3a

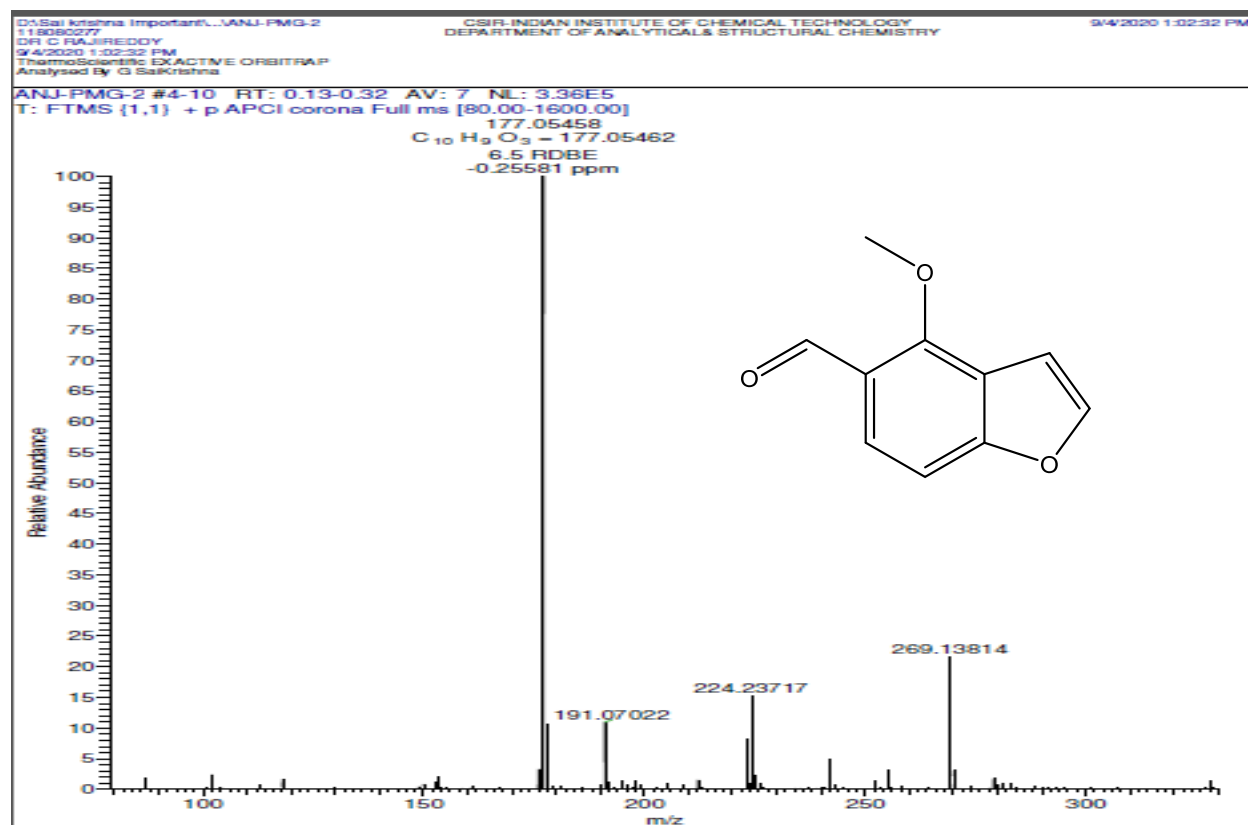


Fig. S6 — HRMS of Compound 3a

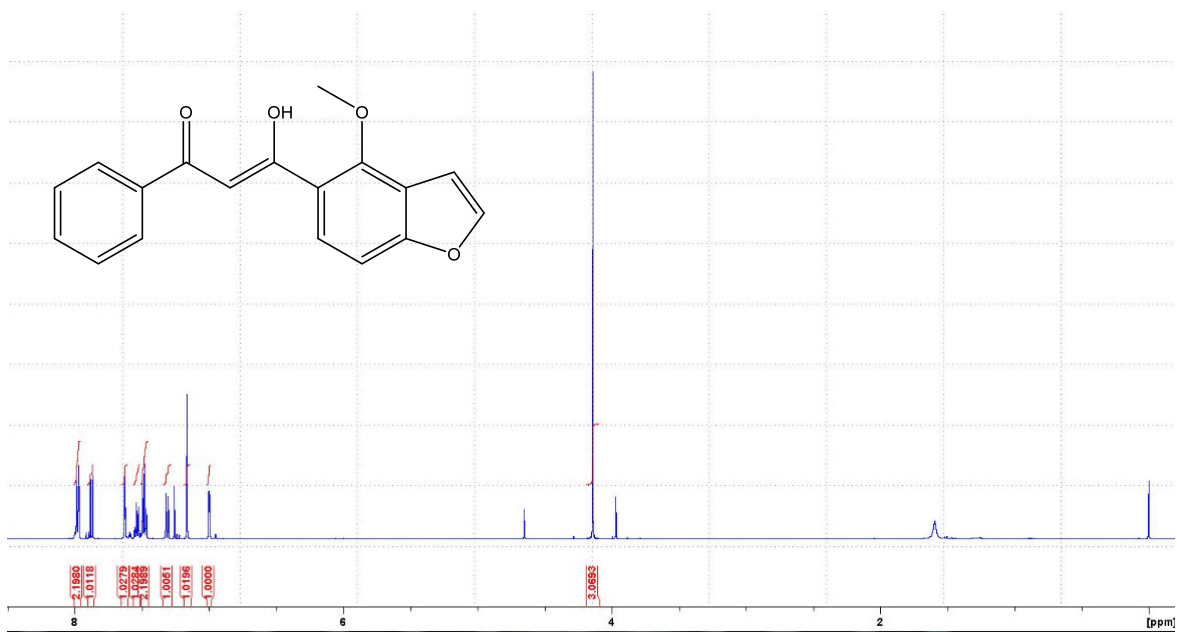


Fig. S7 — <sup>1</sup>H-NMR spectrum of Pongamol (4)

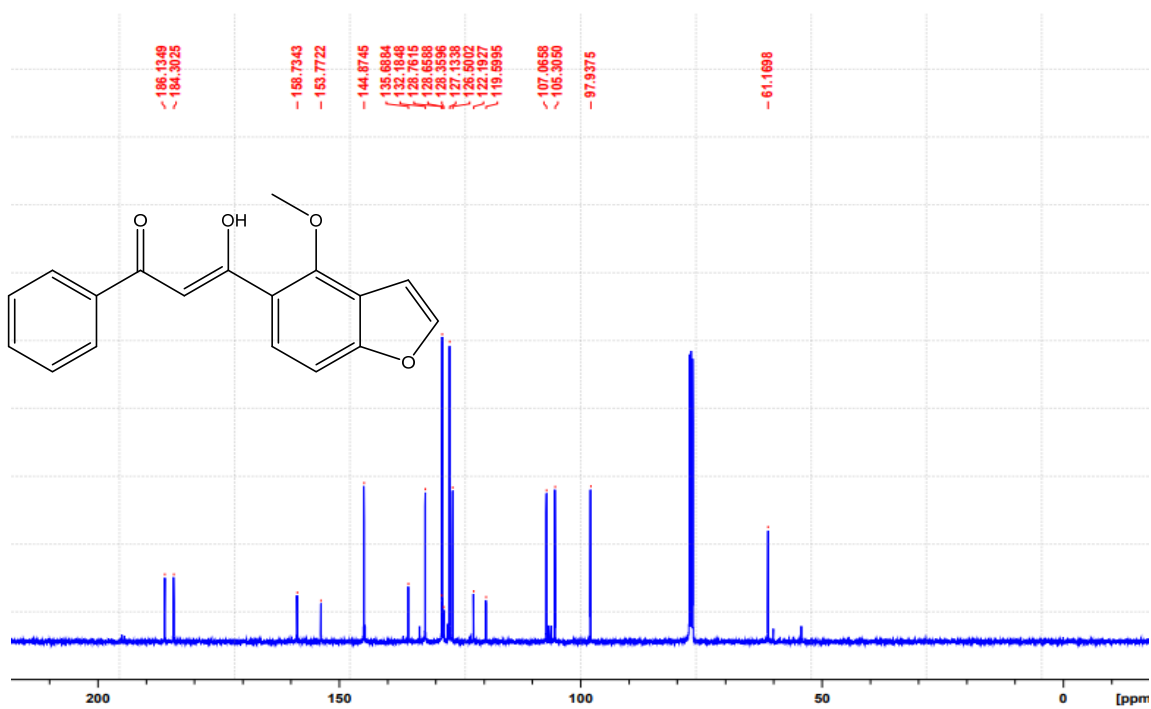


Fig. S8 — <sup>13</sup>C-NMR spectrum of Pongamol (4)

ANJ-PMG-3 #3-11 RT: 0.10-0.37 AV: 9 NL: 6.10E5

T: FTMS (1,1) + p APCI corona Full ms [80.00-1600.00]

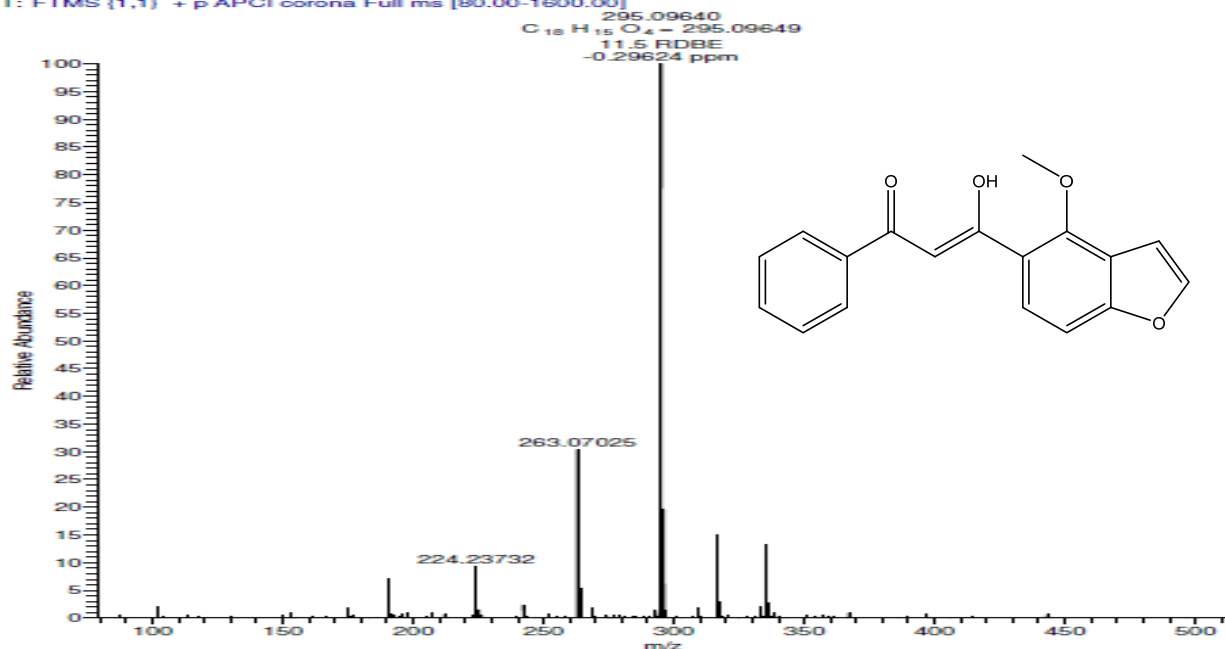


Fig. S9 — HRMS of Pongamol (4)

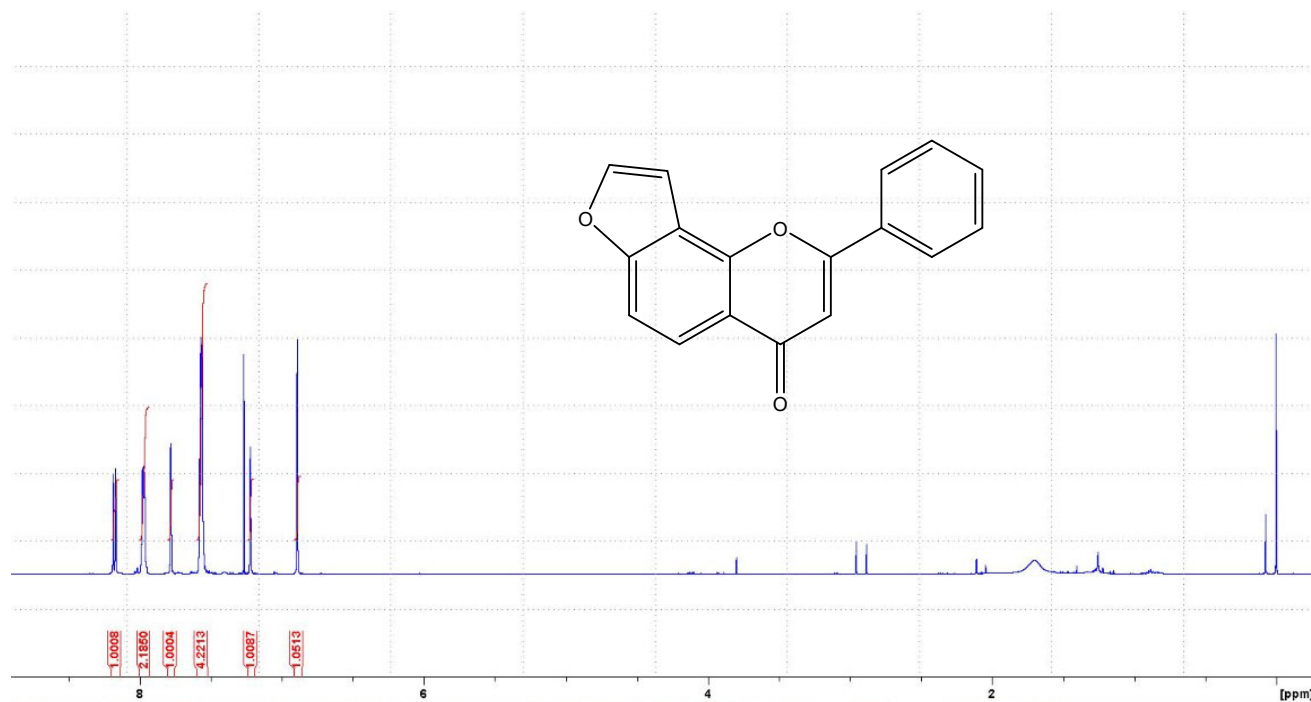


Fig. S10 — <sup>1</sup>H-NMR spectrum of Lanceolatin (5)

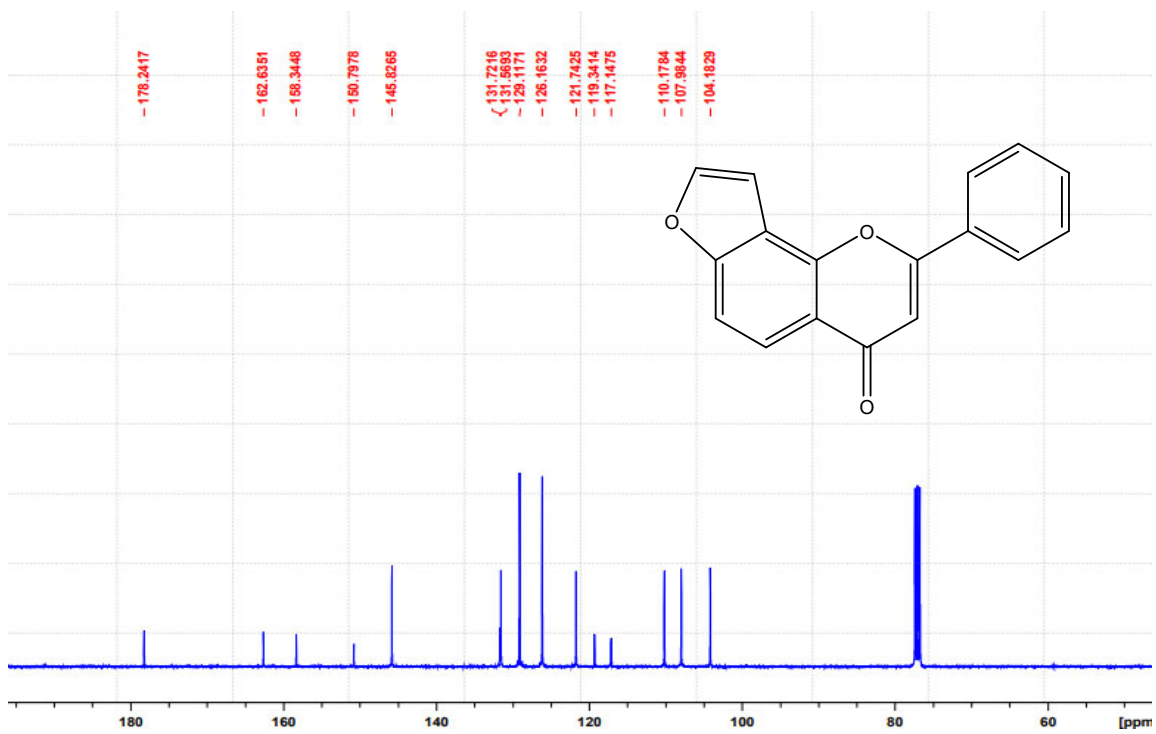


Fig. S11 — <sup>13</sup>C-NMR spectrum of Lancecolatin (5)

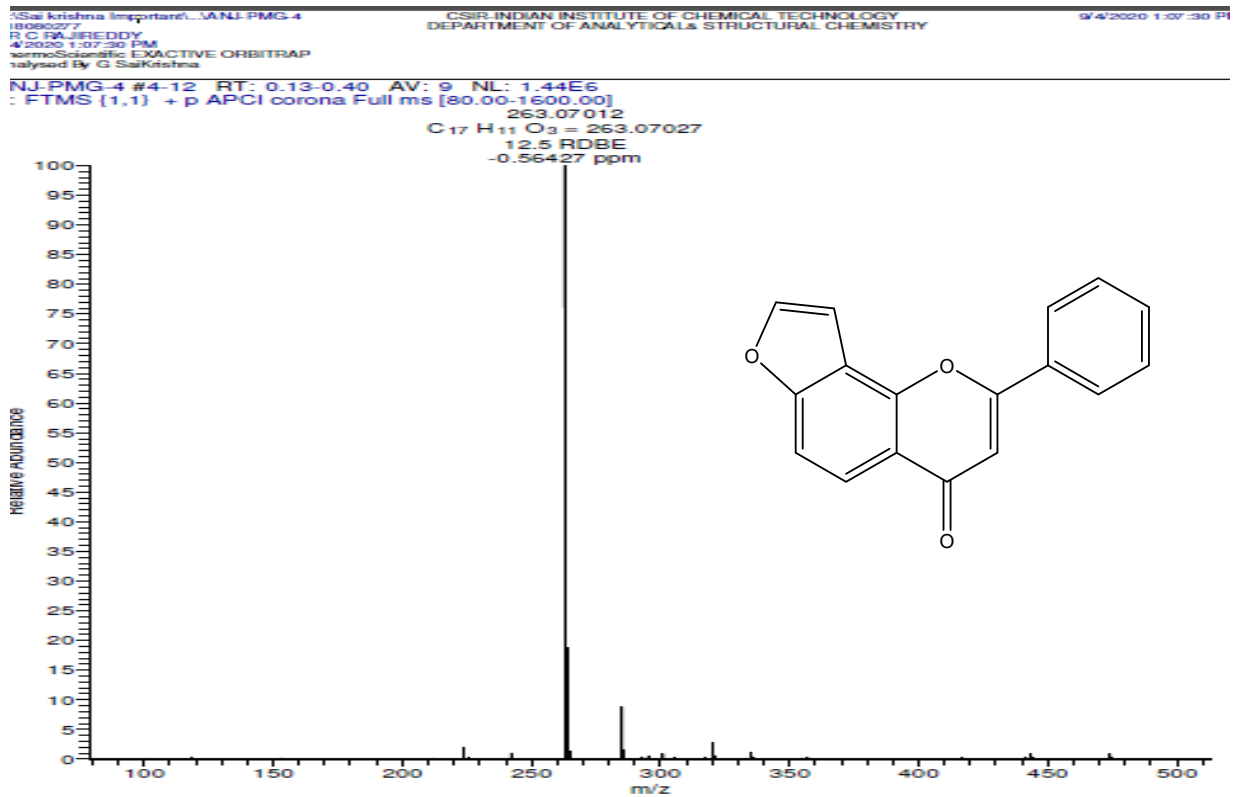
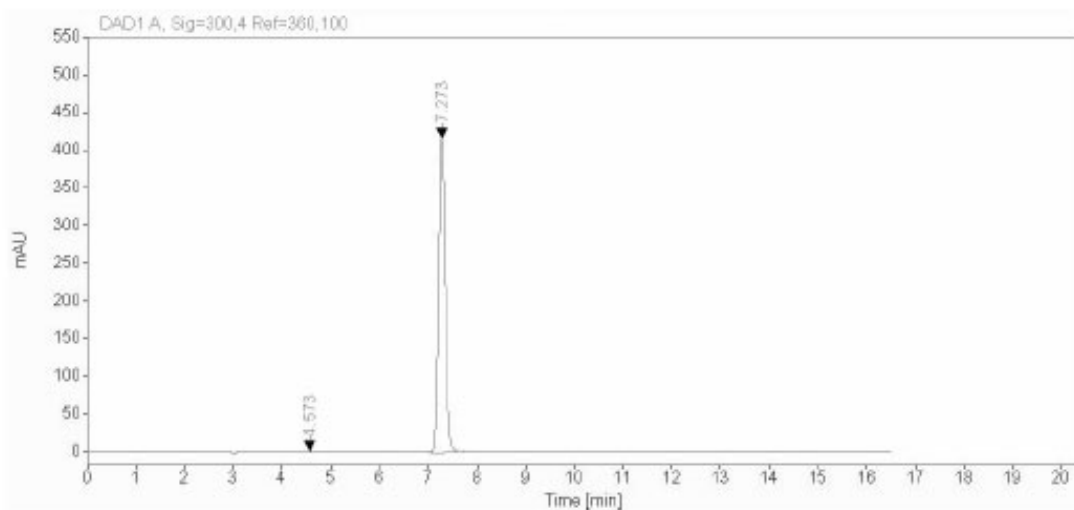


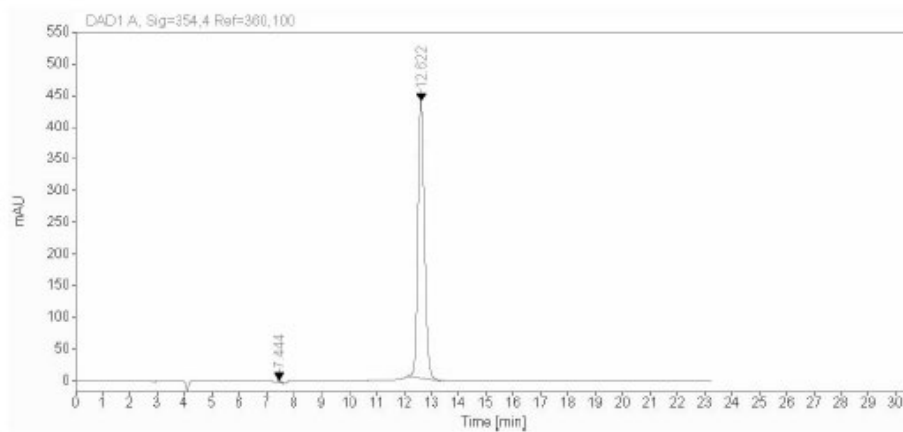
Fig. S12 — HRMS of Lancecolatin (5)



Signal: DAD1 A, Sig=300,4 Ref=360,100

RT [min]	Type	Width [min]	Area	Height	Area%	Name
4.573	BB	0.0944	6.8409	1.1343	0.1698	
7.273	MM R	0.1525	4022.4910	417.4212	99.8302	
		<b>Sum</b>	<b>4029.3319</b>			

Fig. S13 — HPLC of Lanceolatin (5)



Signal: DAD1 A, Sig=354,4 Ref=360,100

RT [min]	Type	Width [min]	Area	Height	Area%	Name
7.444	BB	0.2039	27.1781	2.3000	0.3847	
12.622	MM R	0.2624	7038.3389	435.0105	99.6153	
		<b>Sum</b>	<b>7065.5170</b>			

Fig. S14 — HPLC of Pongamol (4)