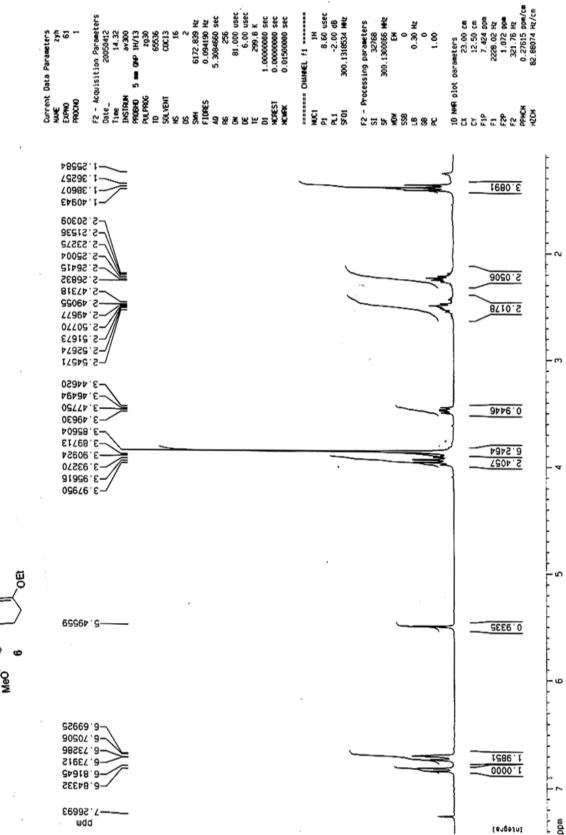
Spectrum for

Palladium Catalyzed Sequential Arylation and Allylic Alkylation of Highly Functionalized Ketones: A Concise Synthesis of Mesembrine

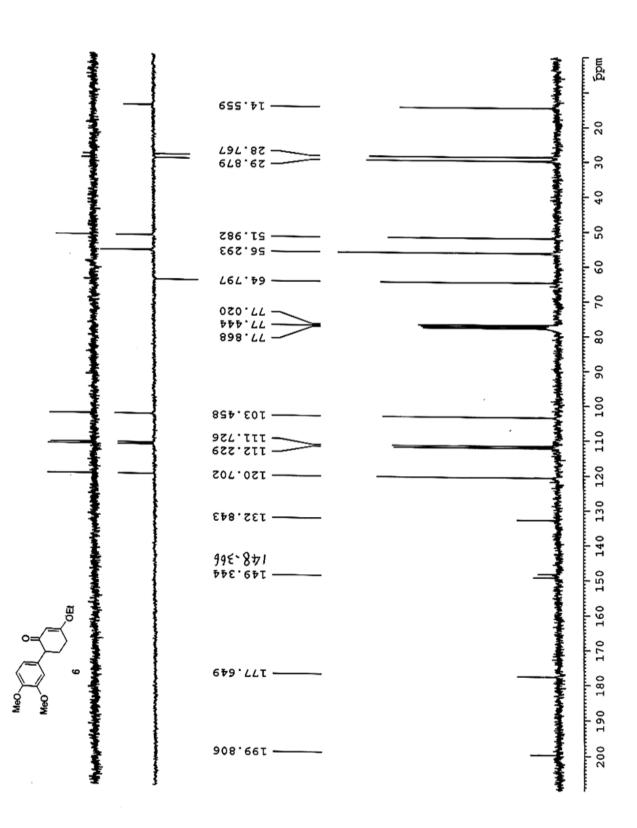
Yuanhong Zhao, Yongyun Zhou, Leilei Liang, Xiaodong Yang, Fengxiang Du, Liang Li, and Hongbin Zhang *

Key Laboratory of Medicinal Chemistry for Natural Resource, Ministry of Education, School of Chemical Science and Technology, Yunnan University, Kunming, Yunnan 650091, P. R. China Fax: 86-871-5035538. E-mail: <u>zhanghb@ynu.edu.cn</u>

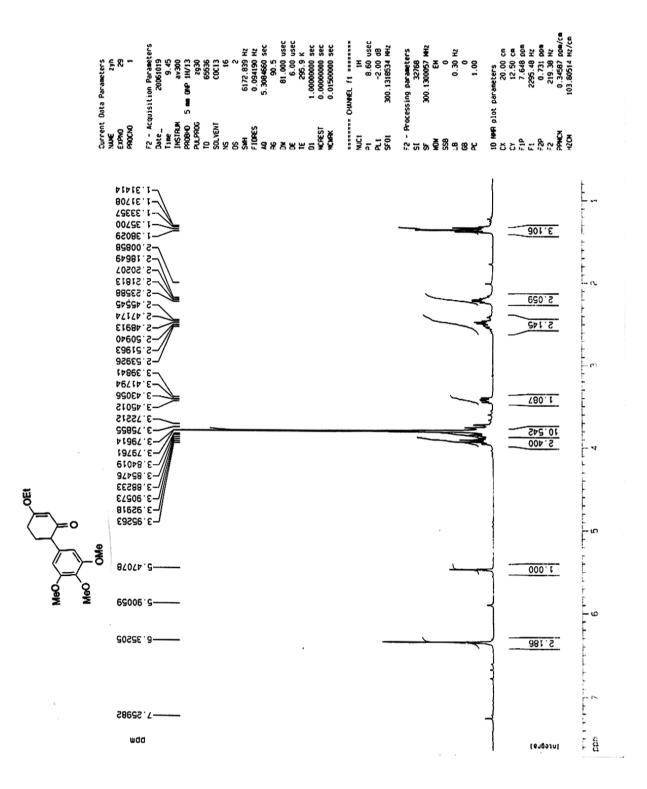


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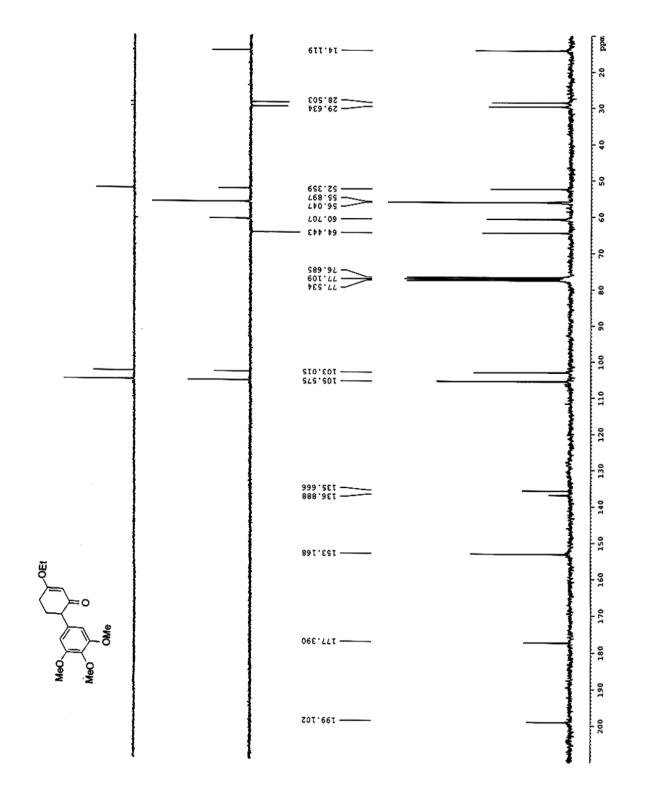
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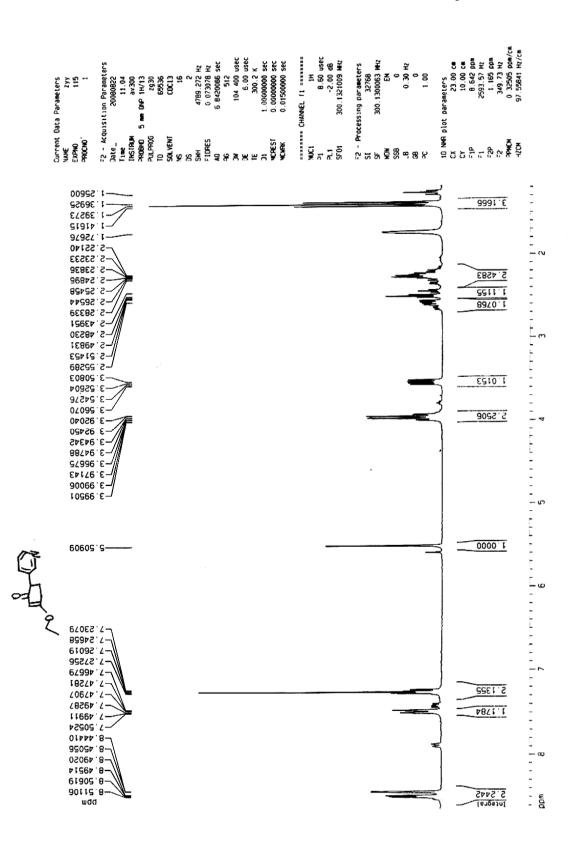


Compound 6



Compound 12





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10 NMR plot parameters CX 10.00 cm 71 8.476 pom 71 2544.04 Hz 72P 0.488 pom 72P 0.488 pom 72 9HCH 0.34732 pom/cm 72H 104.24141 Hz/Cm
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1H 8.60 usec -2.00 dB 300.1321009 MH2 -2 - Processing parameters SI 32768 SF 300.130090 M-2 M0M 500.130090 M-2 M0M 50 SB 0.30 M2 SB 0.30 CHANNEL FI ------Current Data Parameters VAME 244 EXPNO 69 240CNO 1 NUC1 21 21 21 21 21 21 na ang tang ta SE73E.1-2 18065.1 3 1100 -1.41455 92679.1--2.26189 1 -~ 84475.5-81675.5-5 5.29183 8510.5 -2.31044 -5.49222 2.2197 S2602.5-1 - m -5.52449 L -3.56329 L 3200.1 1.1 3167462 01006.6-51006.5a data a substant a substant 0911.5 v 87696.6-64496.5-- un 91625°G-1.0000 1 - o -553532-7-01165.7 7.26247 -7.32234 49946.7-1 0805512-98968°.7-2,1643 Ē -7.42146 1.2395 62244.7-5.2063 P2285'2 4.1284 89625 Z-96#99°.2. 16625 2--- œ 18282.7

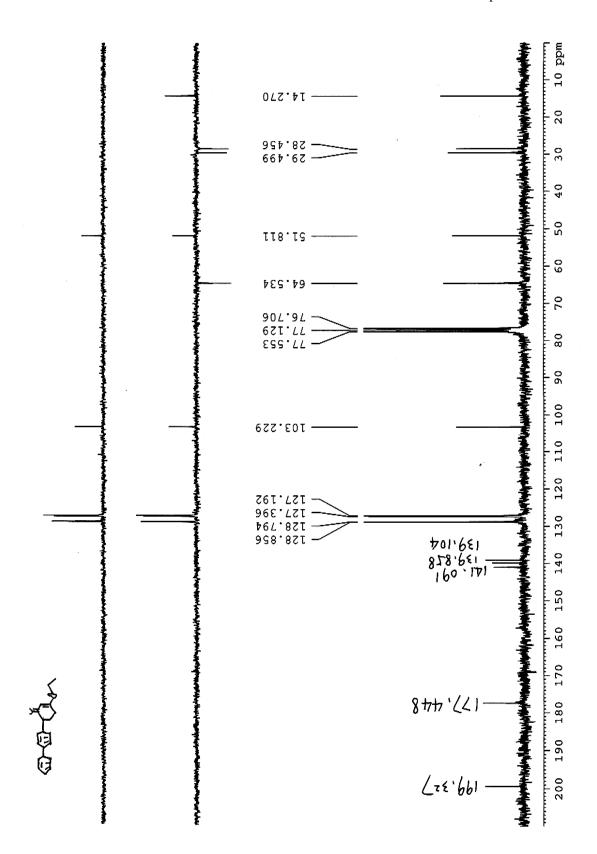
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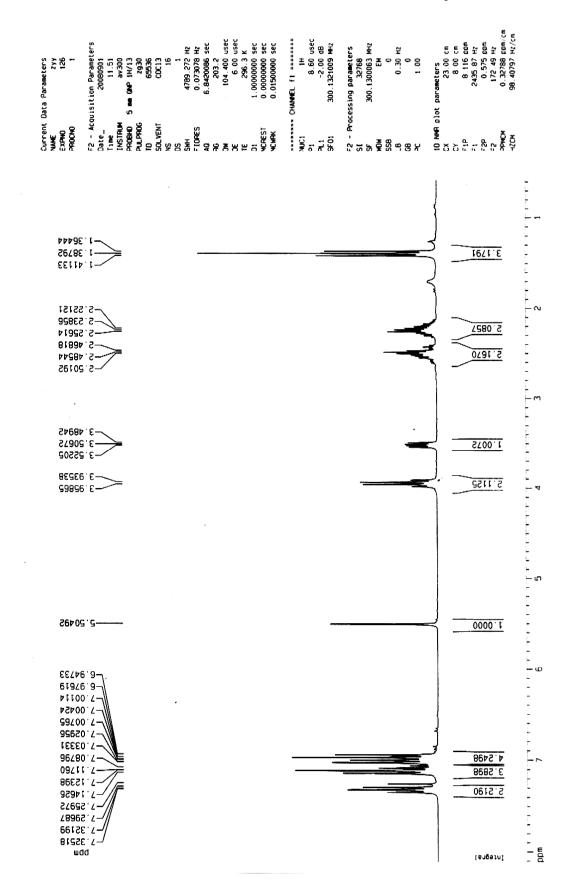
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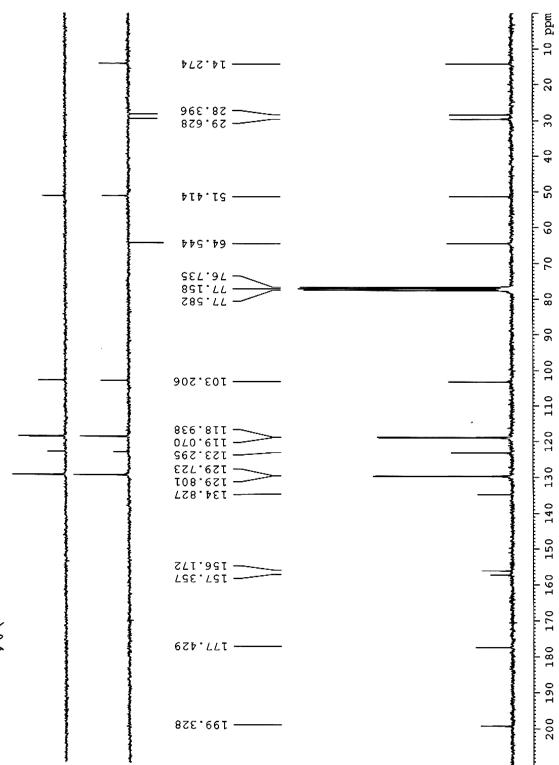
Compound 7

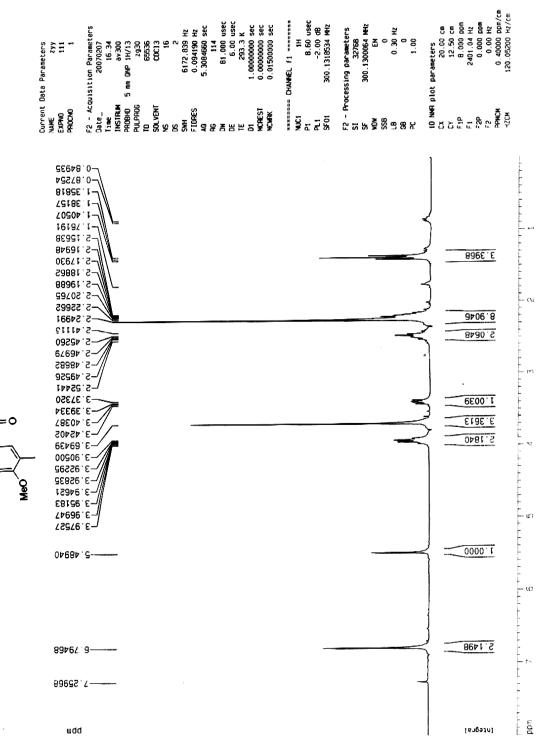
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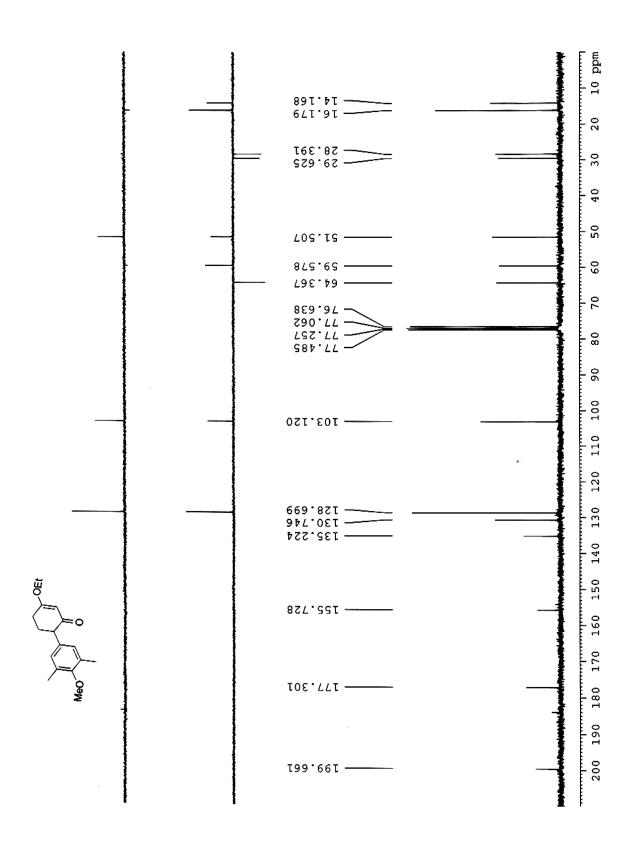


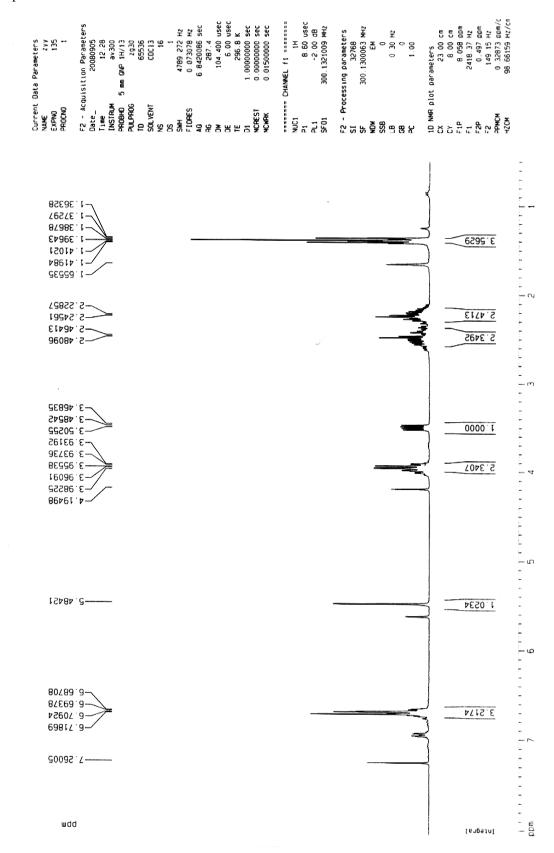






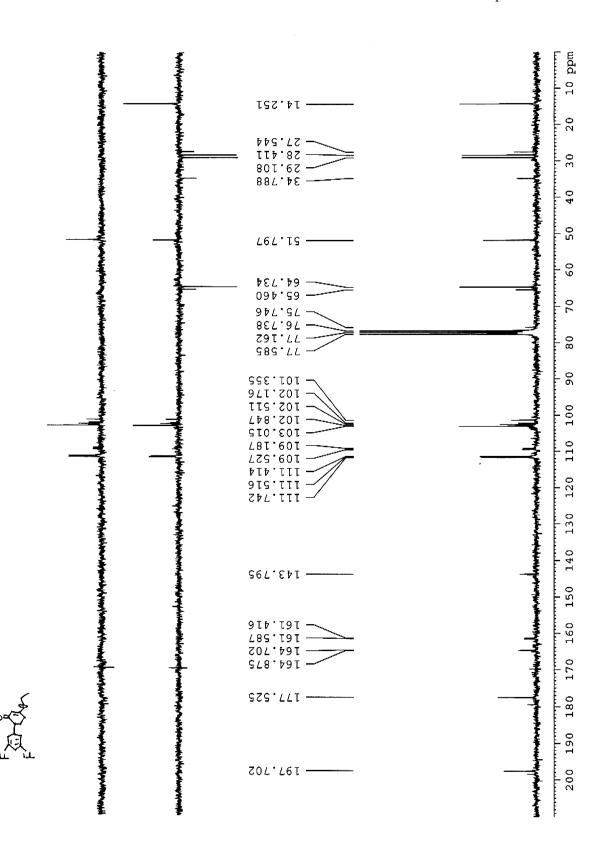
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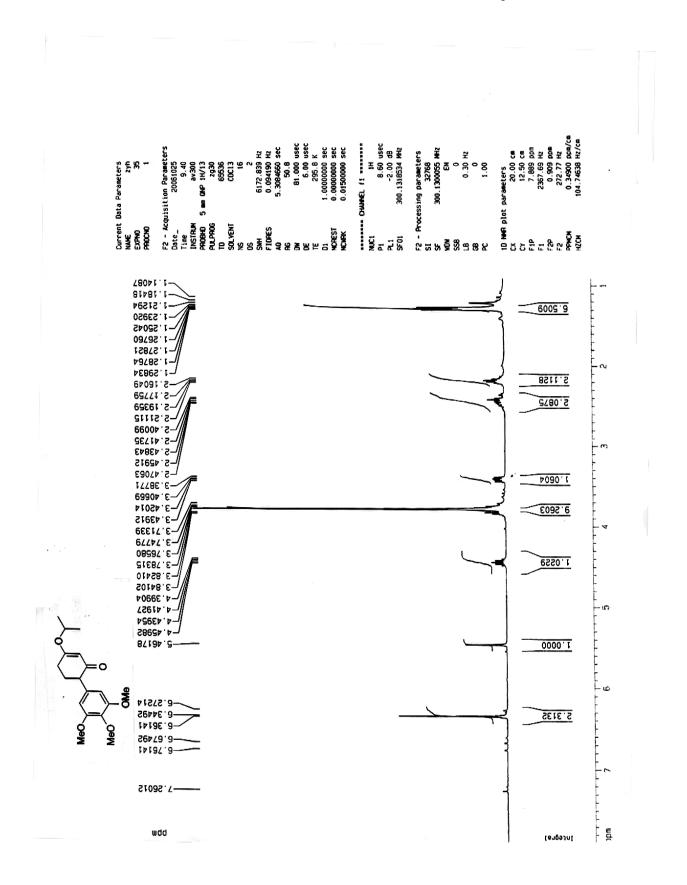


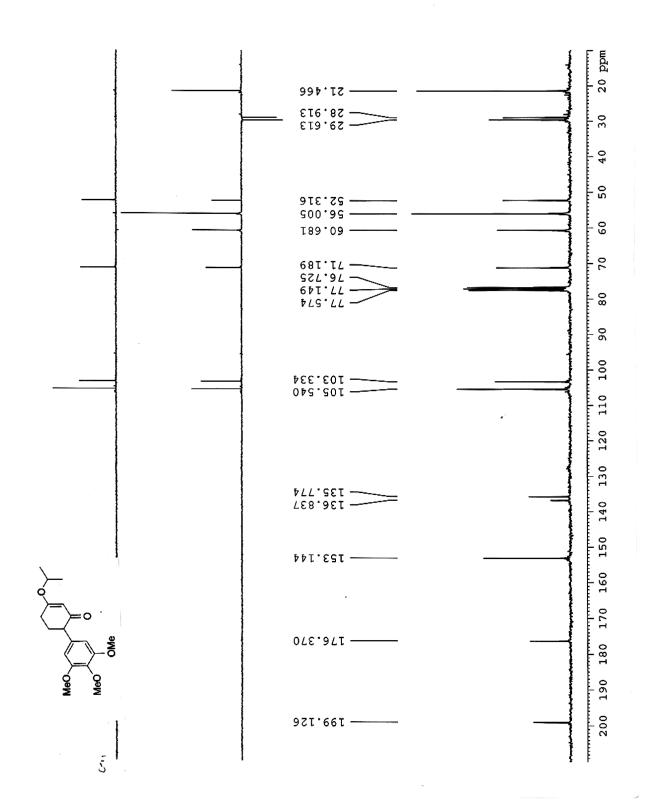


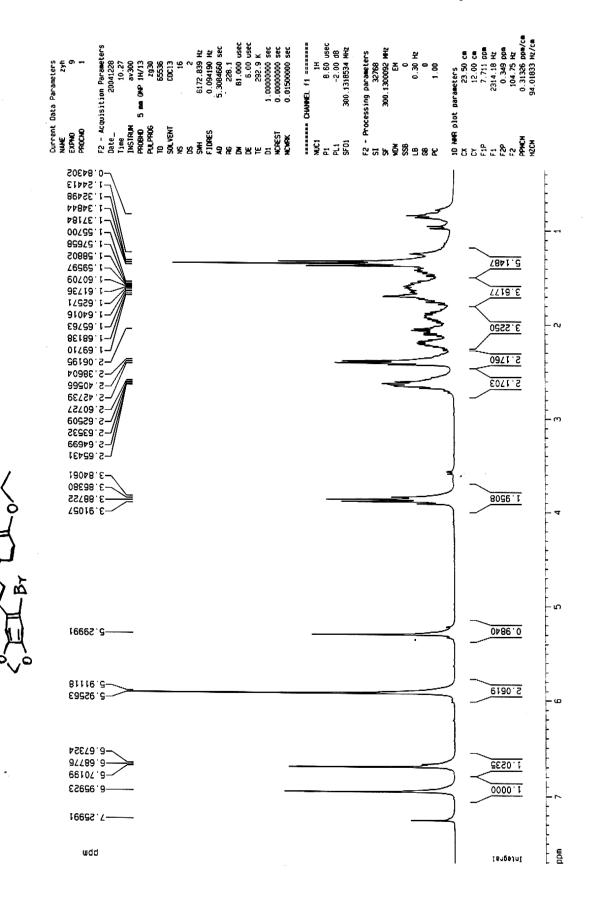
Ĩ.M.

Compound 9

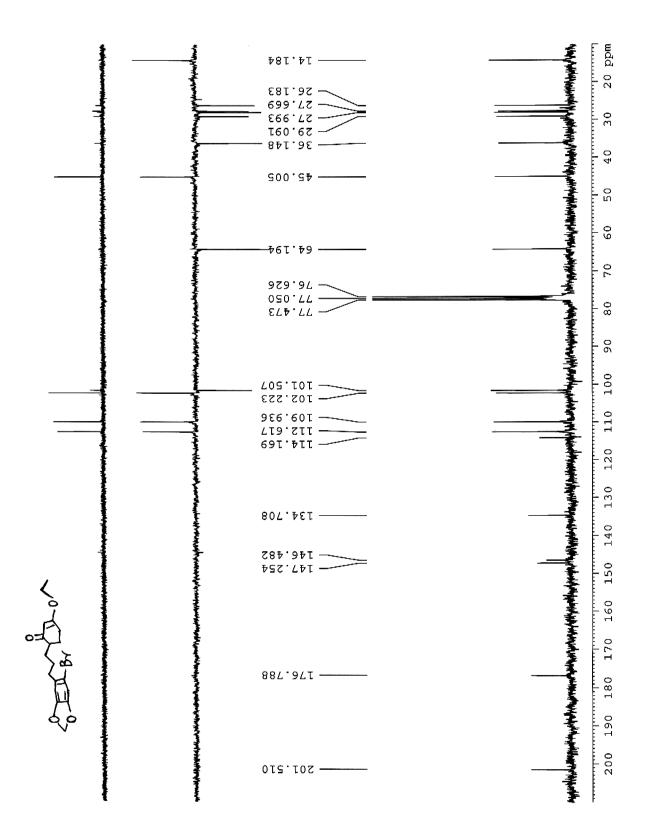


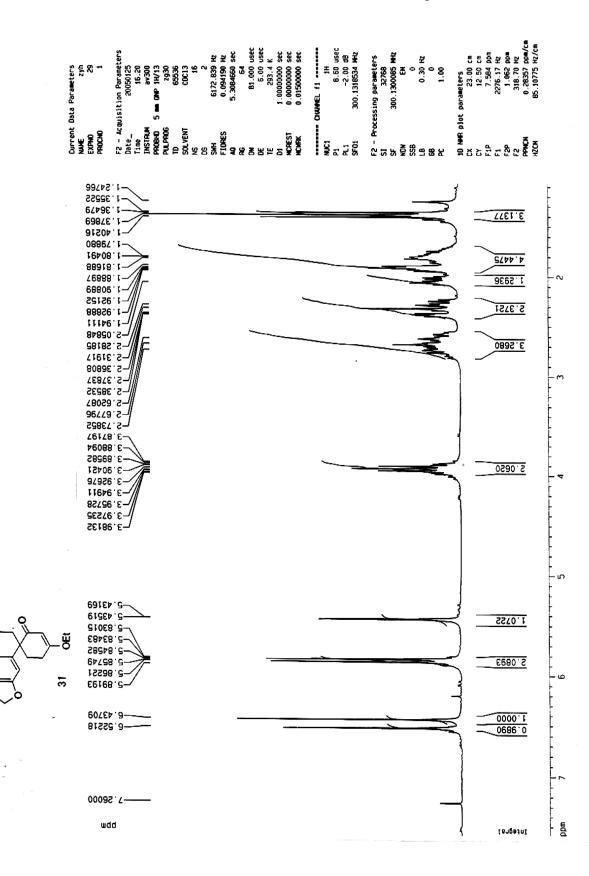




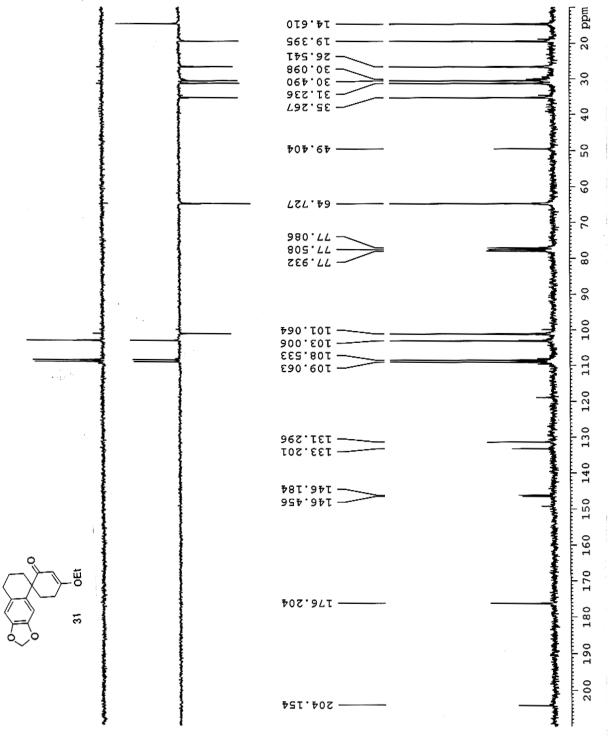


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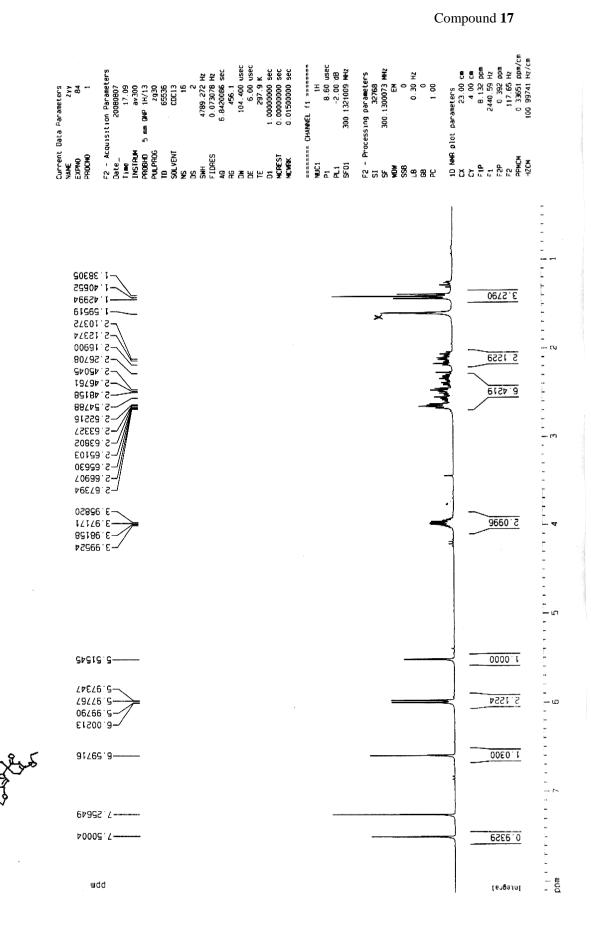




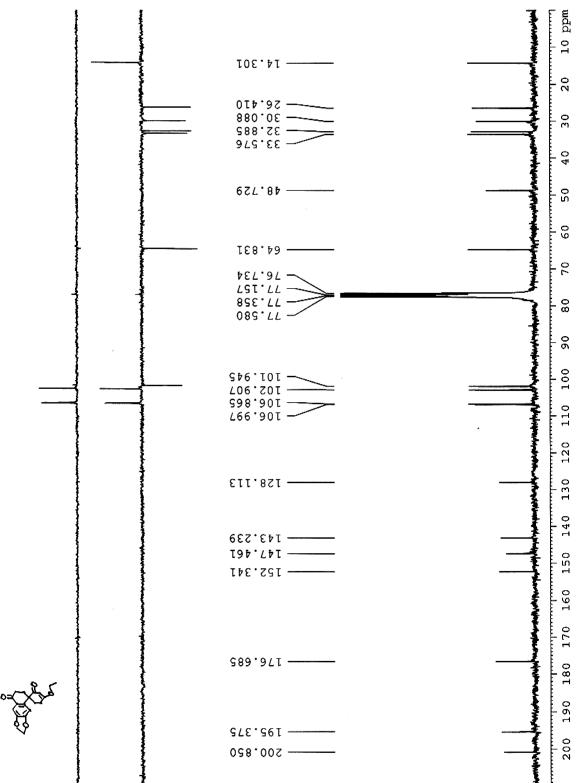
Compound 16

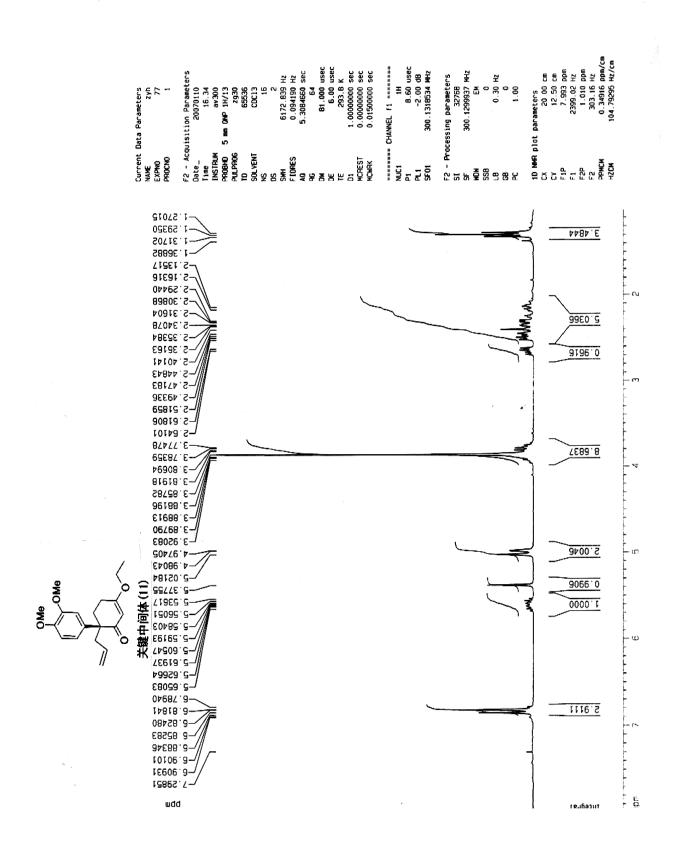


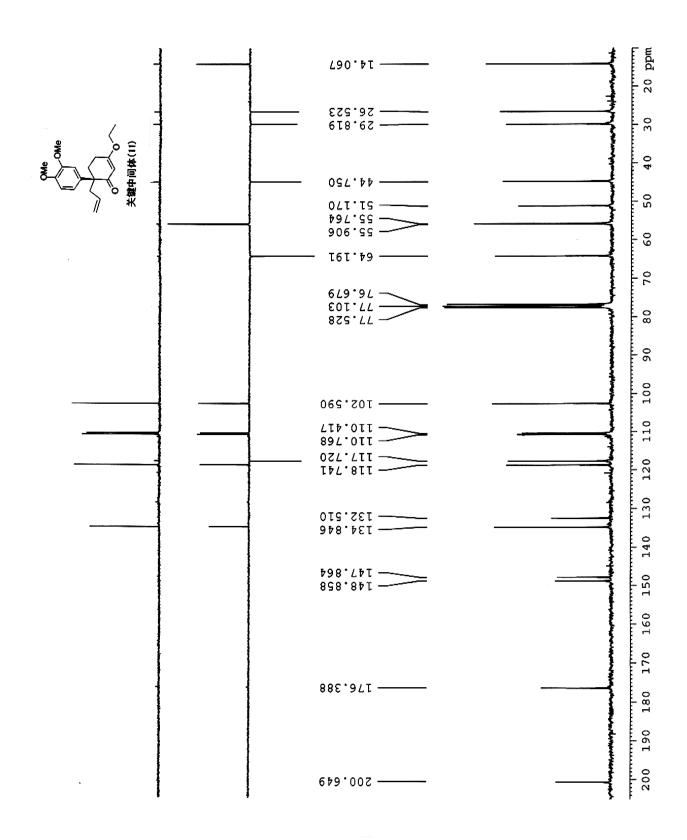
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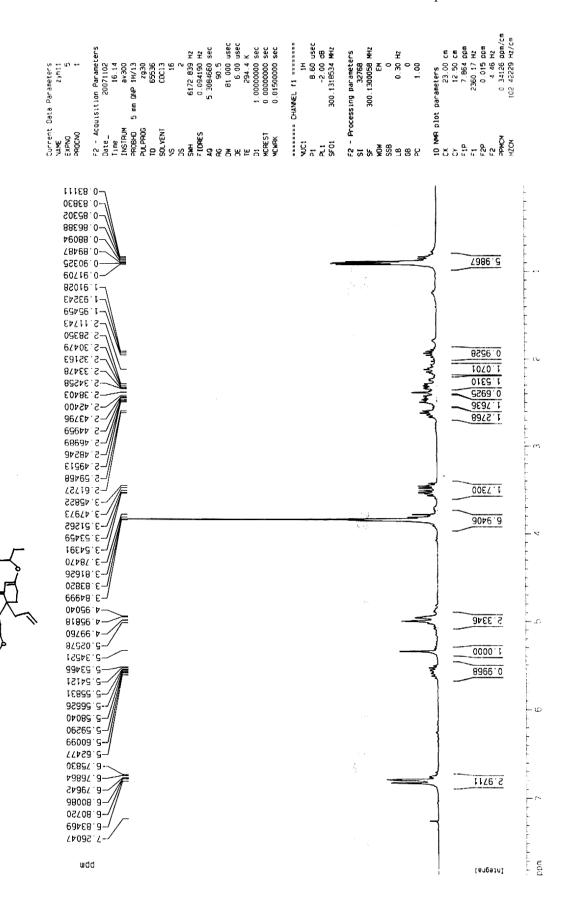




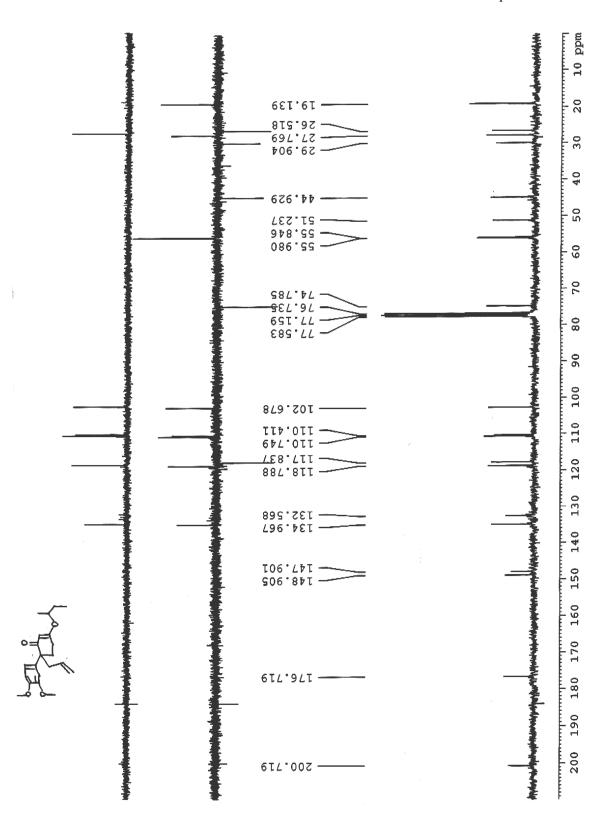


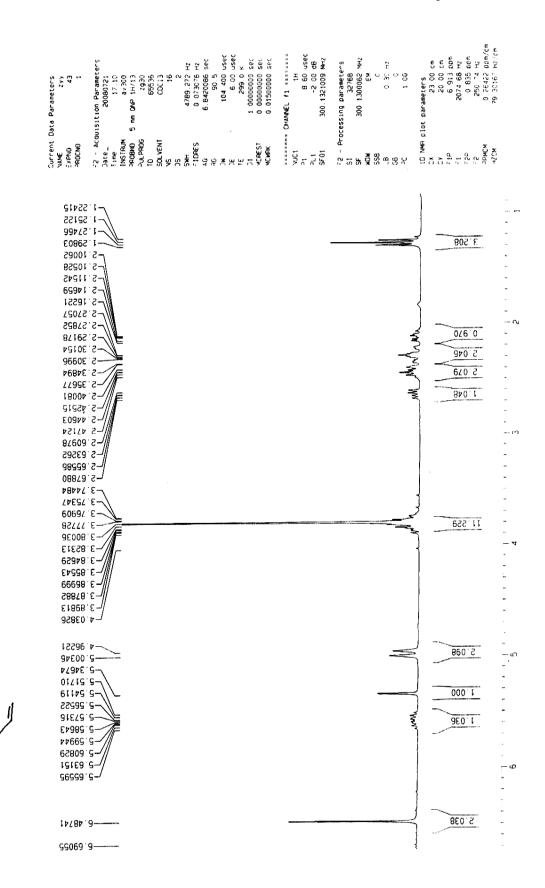


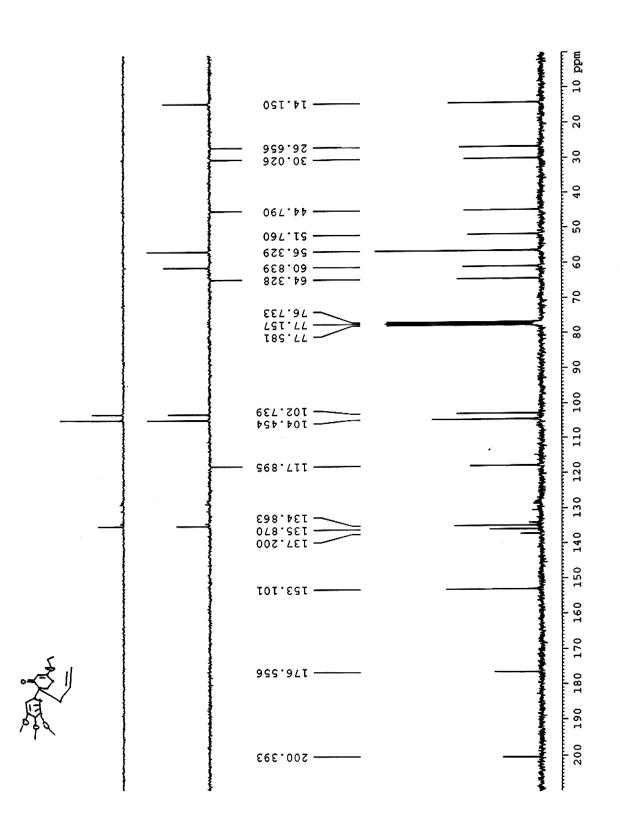




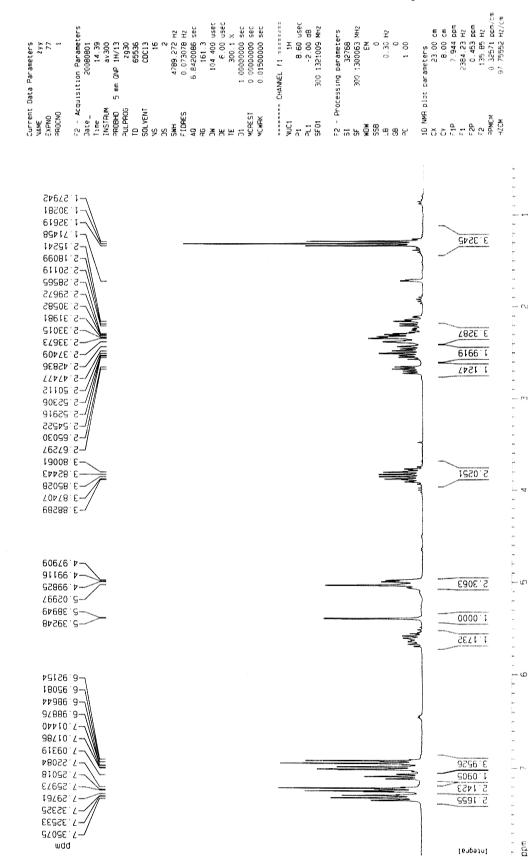


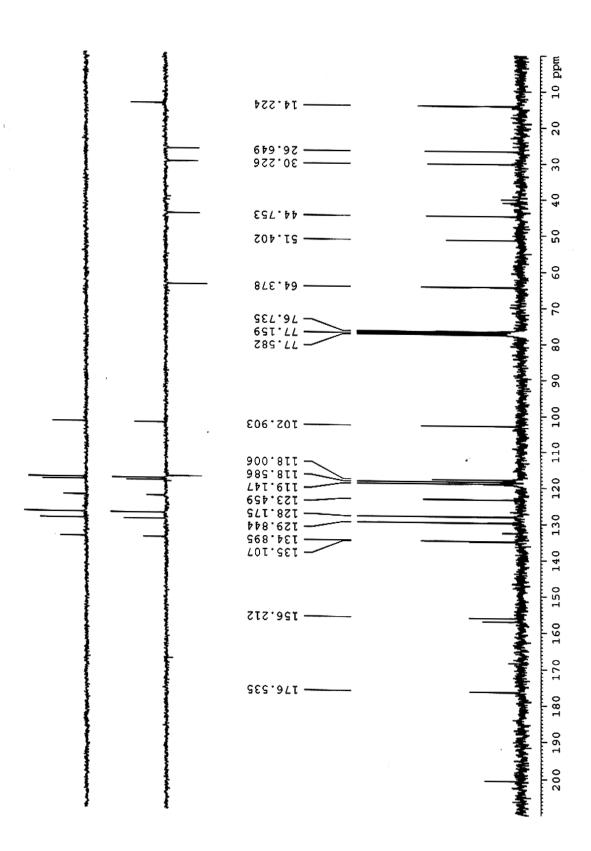


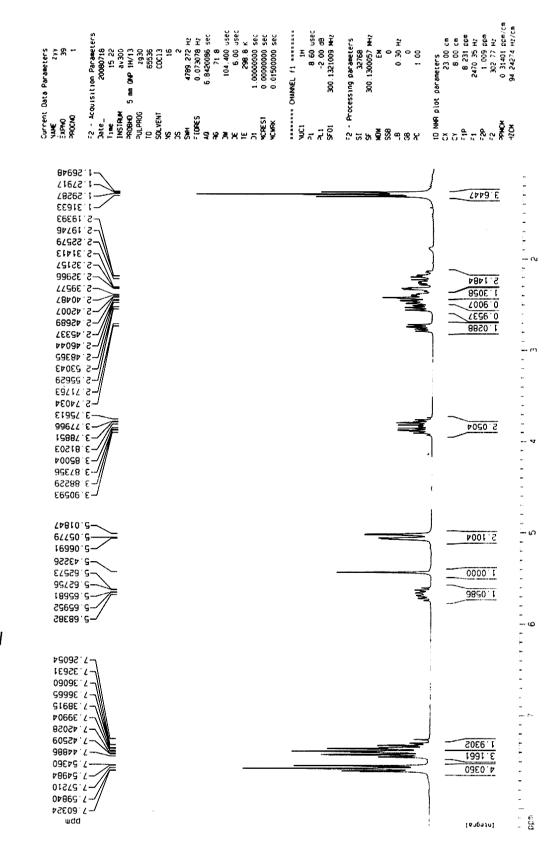




Compound 21

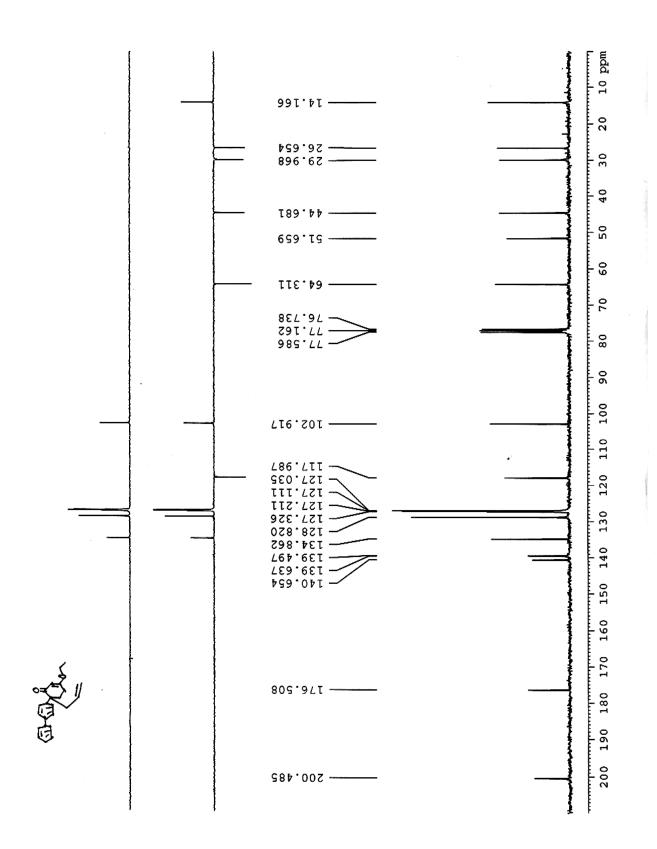




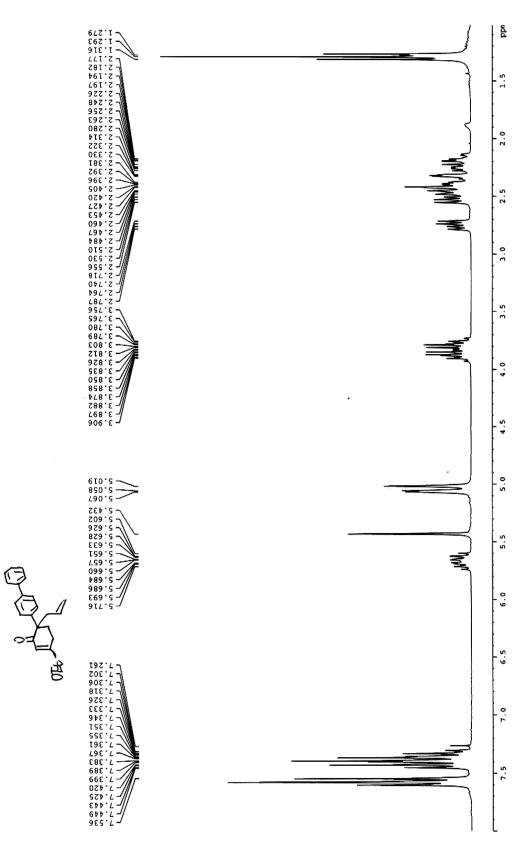


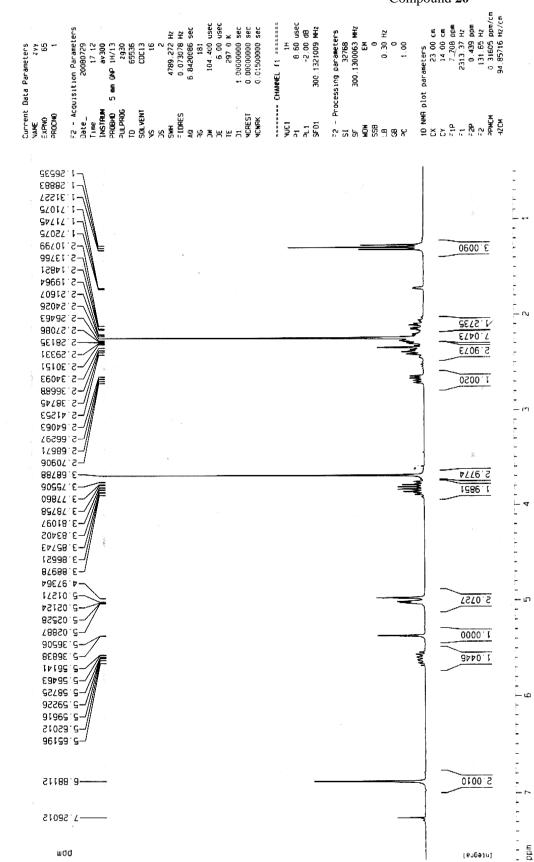


Compound 19

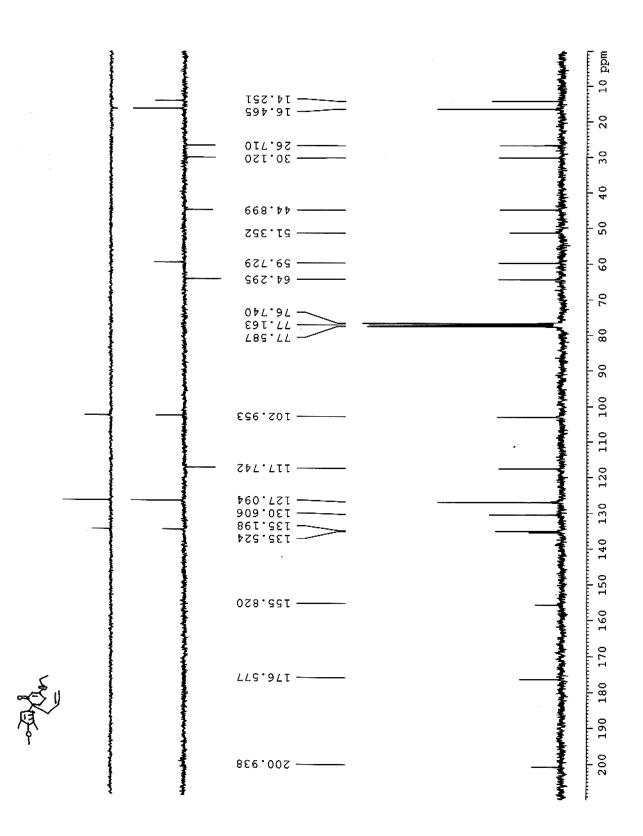


Compound 19

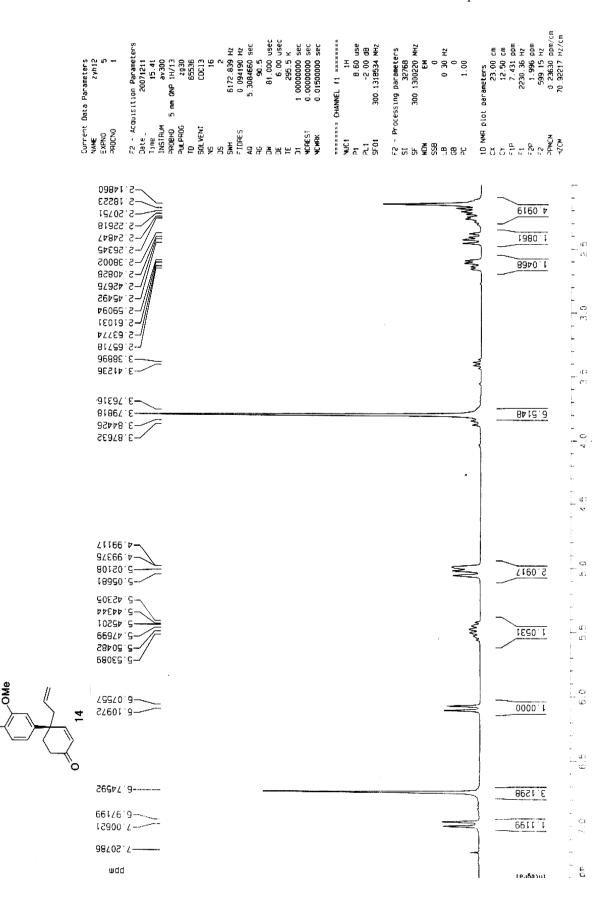




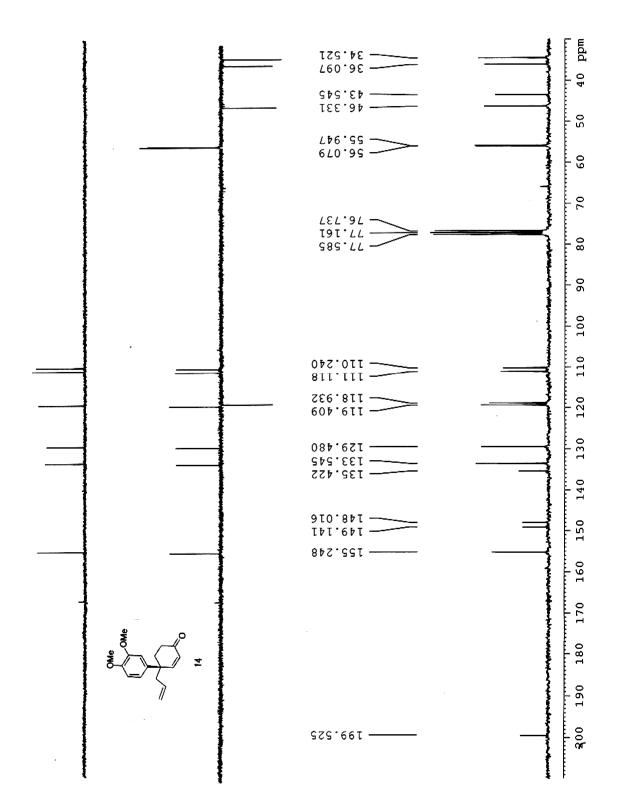
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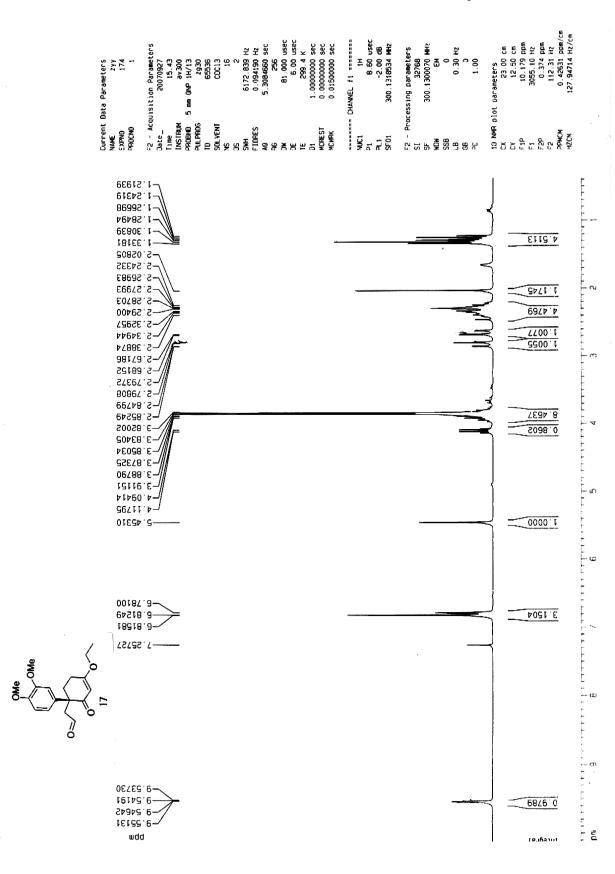


Compound 20

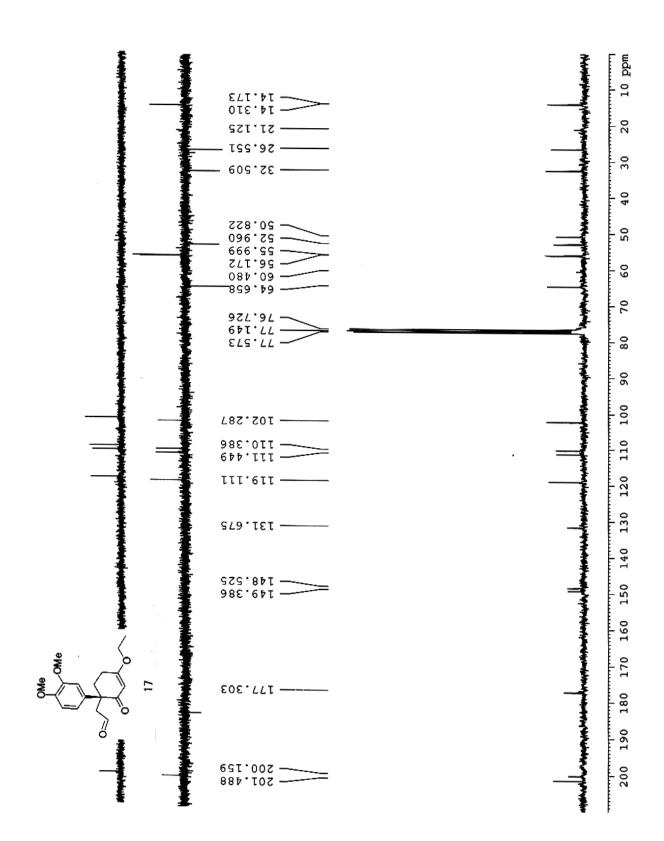


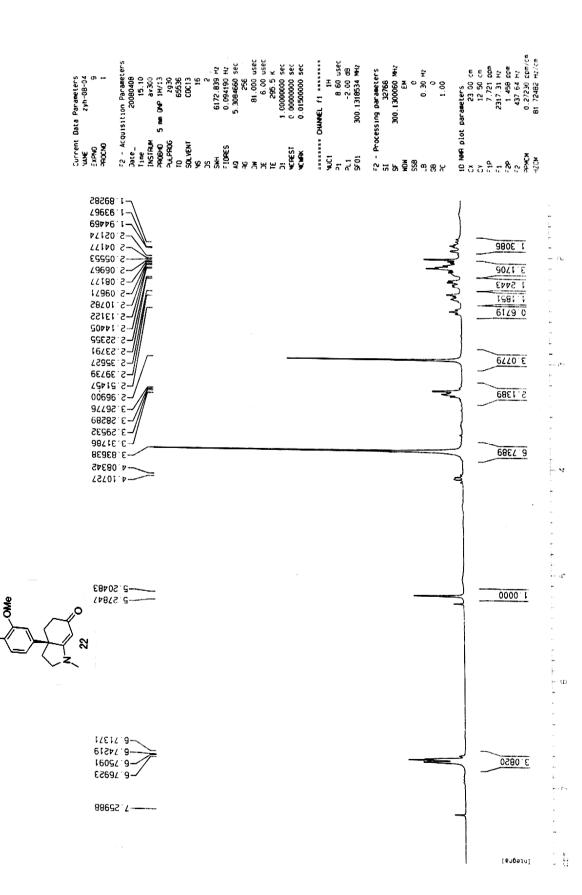
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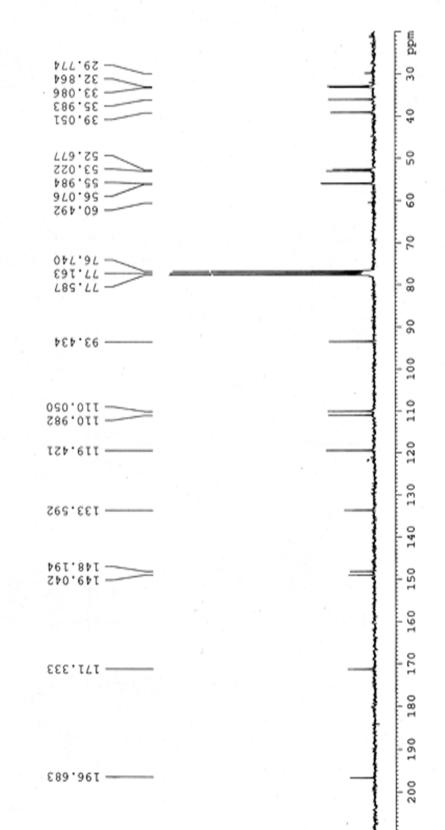


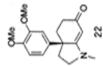


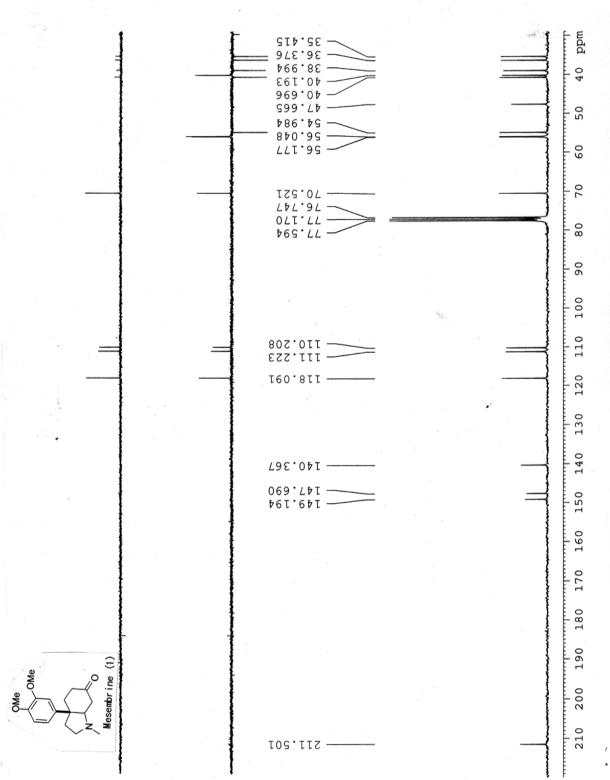












Mesembrine 1

