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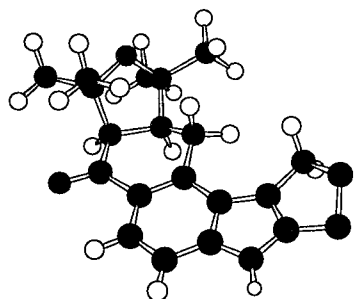
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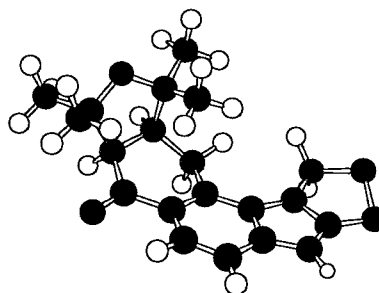
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Supplementary Material

Calculated interatomic (Å) distances for low- and high-energy conformers of lolitrem F (2).



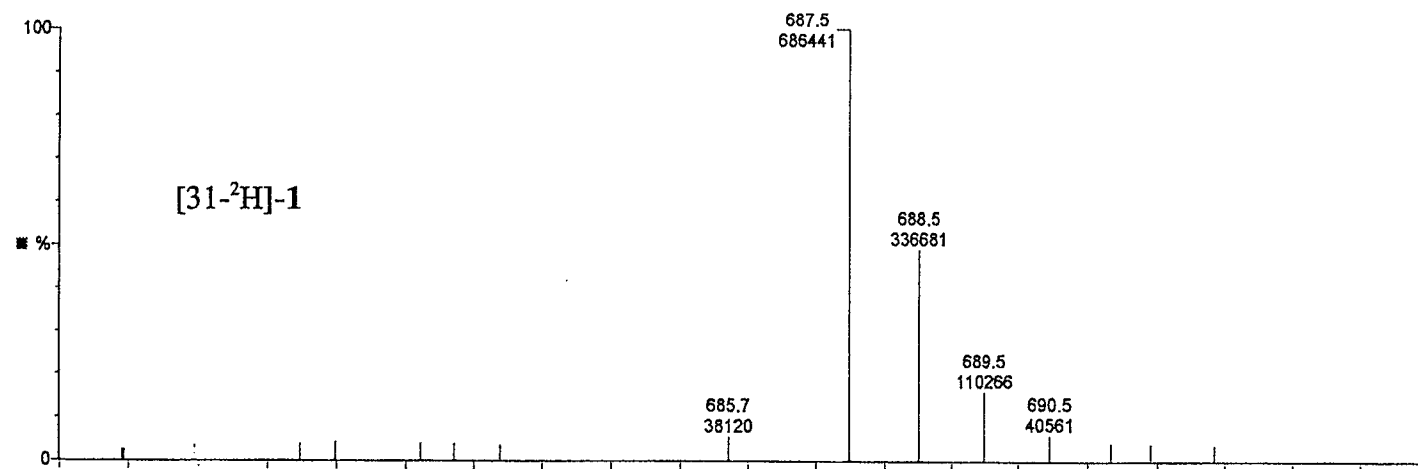
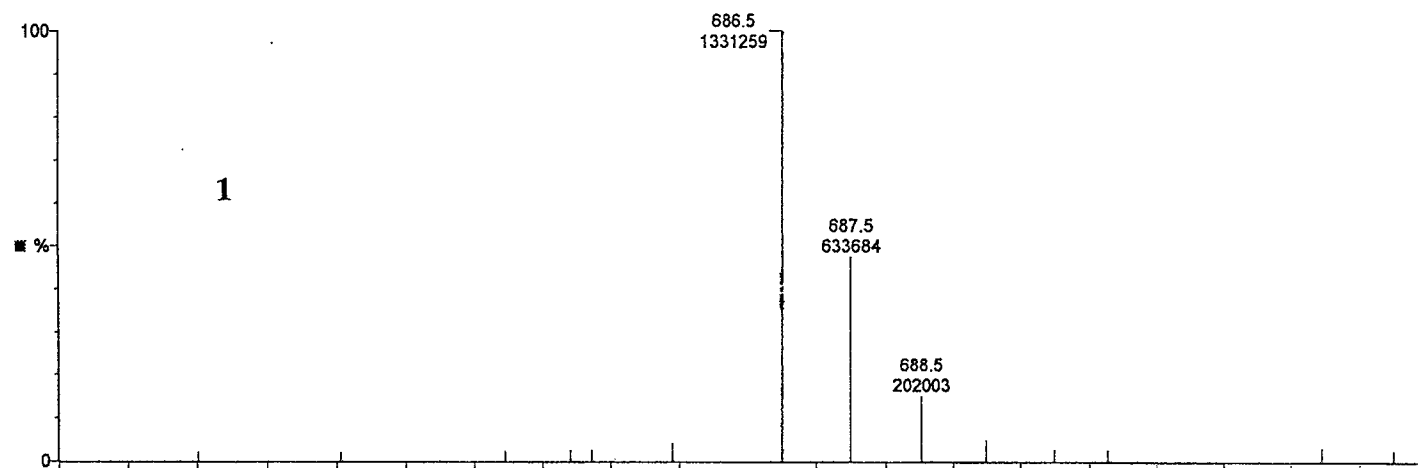
Low Energy (282.5 kJmol⁻¹)



High Energy (289.2 kJmol⁻¹)

H-40	H-36β	2.227	2.598
H-40	H-36α	1.909	3.666
H-40	H17β	3.273	3.636
H-40	H-17α	3.810	4.870
H-40	H-35α	2.905	3.696
H-40	H-39	1.94	1.954
H-39	H-35α	2.175	2.144
H-39	H-31α	2.211	4.319
H-39	H-36α	4.043	3.679
H-39	H-36β	4.600	2.375
H-39	H-37	1.999	3.260
H-38	H-36β	2.217	5.412
H-38	H-37	1.933	1.942
H-38	H-31α	3.525	3.232
H-37	H-31α	2.094	2.018
H-37	H-35α	4.137	2.675
H-36β	H-17β	3.179	2.260
H-36β	H-17α	4.168	3.056
H-36β	H-35α	3.093	2.529
H-36β	H-36α	1.797	1.794
H-36α	H-17α	2.691	3.529
H-36α	H-17β	2.428	3.617
H-36α	H-35α	2.403	2.386
H-35α	H-31α	2.333	2.302

Positive-ion electrospray mass spectra (molecular ion region) of lolitrem B (1) and [31-²H] lolitrem B.



^1H NMR Spectra (δ 1.8-5.7) of lolitrem B (**1**) and $[31\text{-}^2\text{H}]$ lolitrem B in CDCl_3 .

