



Significance:

The total synthesis of vilmoreaonitine has been achieved smoothly with 28 steps in the longest linear sequence, in which the strategy of hydrodealkenylative fragmentation could find application in the synthesis of other complex natural products.

Comment:

- An efficient strategy of hydrodealkenylative fragmentation/*Mannich* sequence to assemble the B/E/F rings.
- The hydrodealkenylative fragmentation developed by Kwon's group was applied in natural product synthesis for the first time.
- An artful *IMDA* cycloaddition to realize the framework construction of the rigid cyclopropane unit.