

Supporting Information

Scenting ketones in the defense glands of two julids from Caucasus (Arthropoda, Myriapoda, Diplopoda, Julida)

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1) Supporting Figures – GC-MS

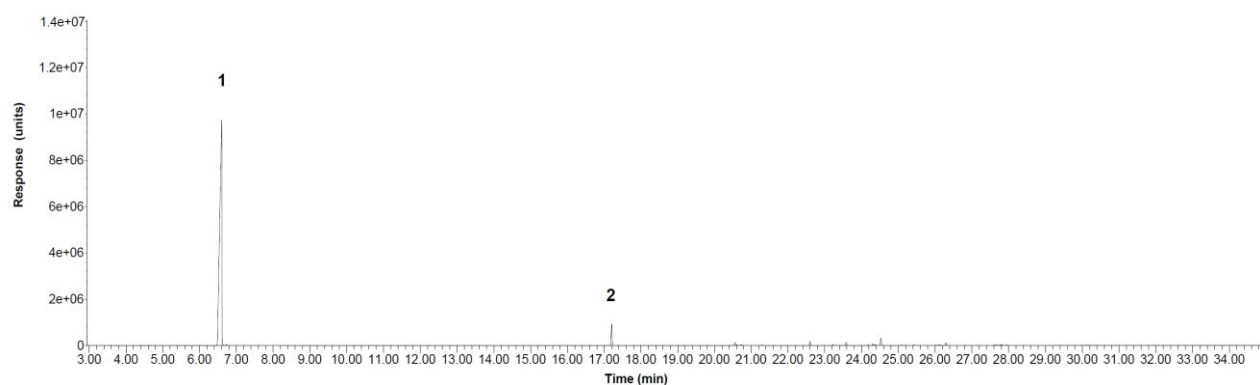


Figure S1. Total ion GC-EI-MS chromatogram of dichloromethane extract of defensive secretion of *Syriojulus continentalis*

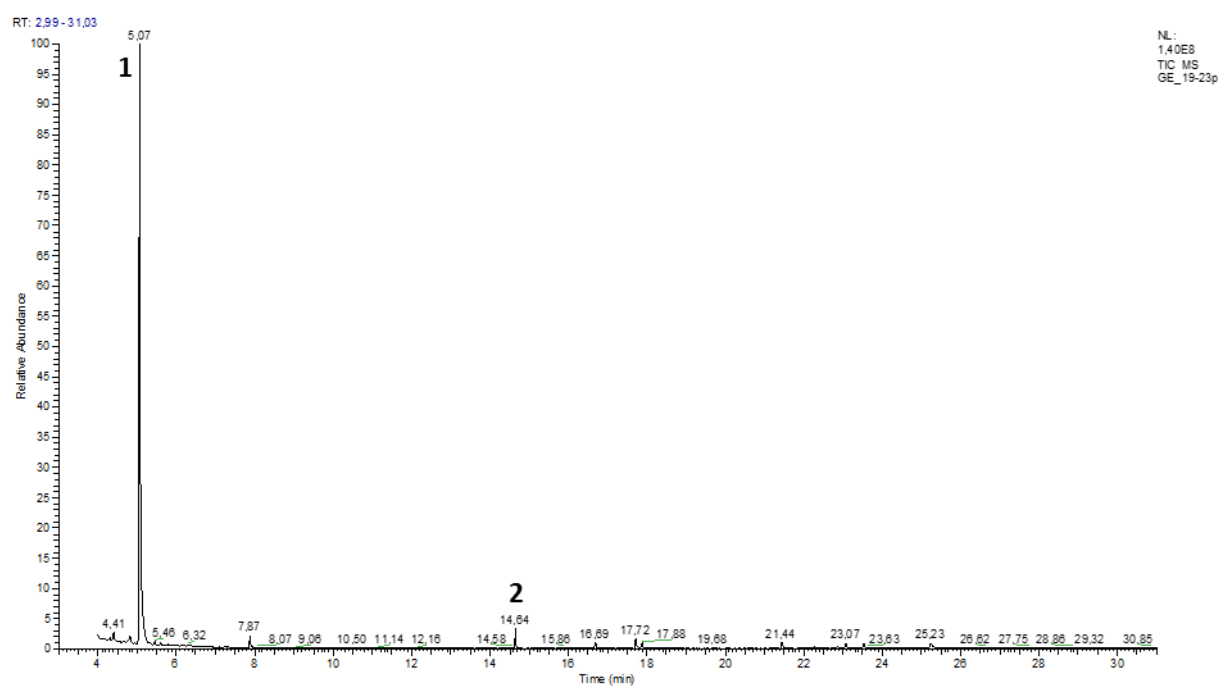


Figure S2. Total ion GC-EI-MS chromatogram of dichloromethane extract of defensive secretion of *Pachyiulus krivolutskyi*

ANF-169(2) #129 RT: 5.07 AV: 1 SB: 56 4,97-5,04 , 5,13-5,51 NL: 3,97E6
T: + c Full ms [40,00-550,00]

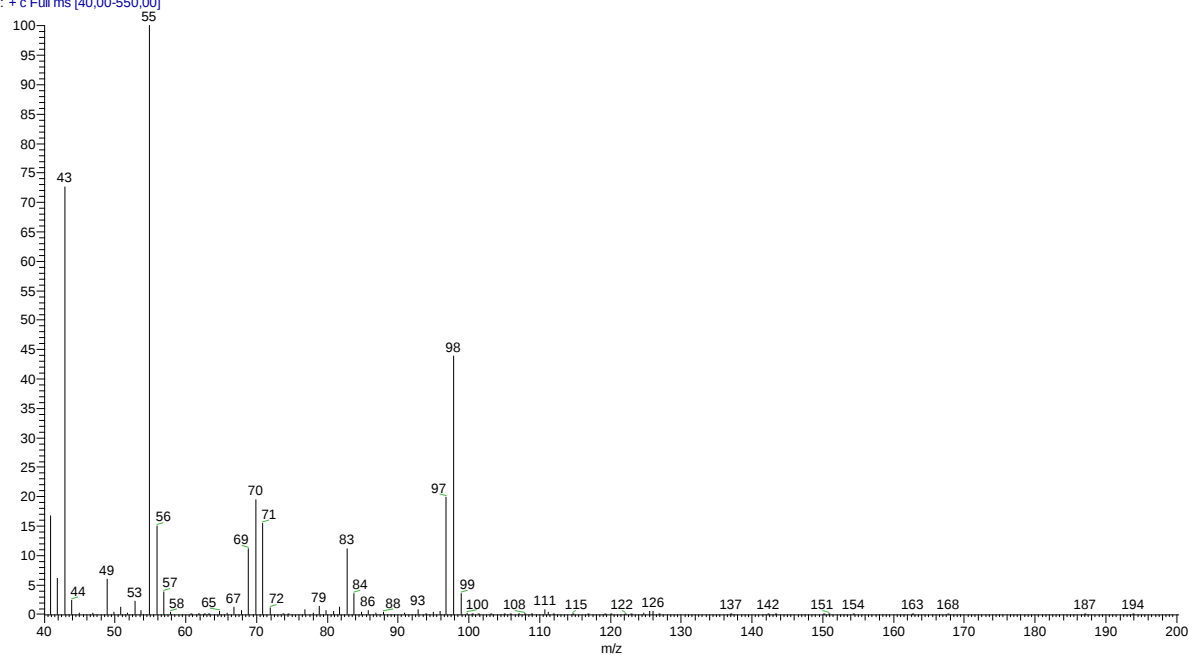


Figure S3. EI mass spectrum of synthesized 4-ethylhex-1-en-3-one (1)

GE 19-23p #1279-1284 RT: 14.63-14.67 AV: 6 SB: 56 14,53-14,60 , 14,71-15,08 NL: 5,23E5
T: + c Full ms [40,00-550,00]

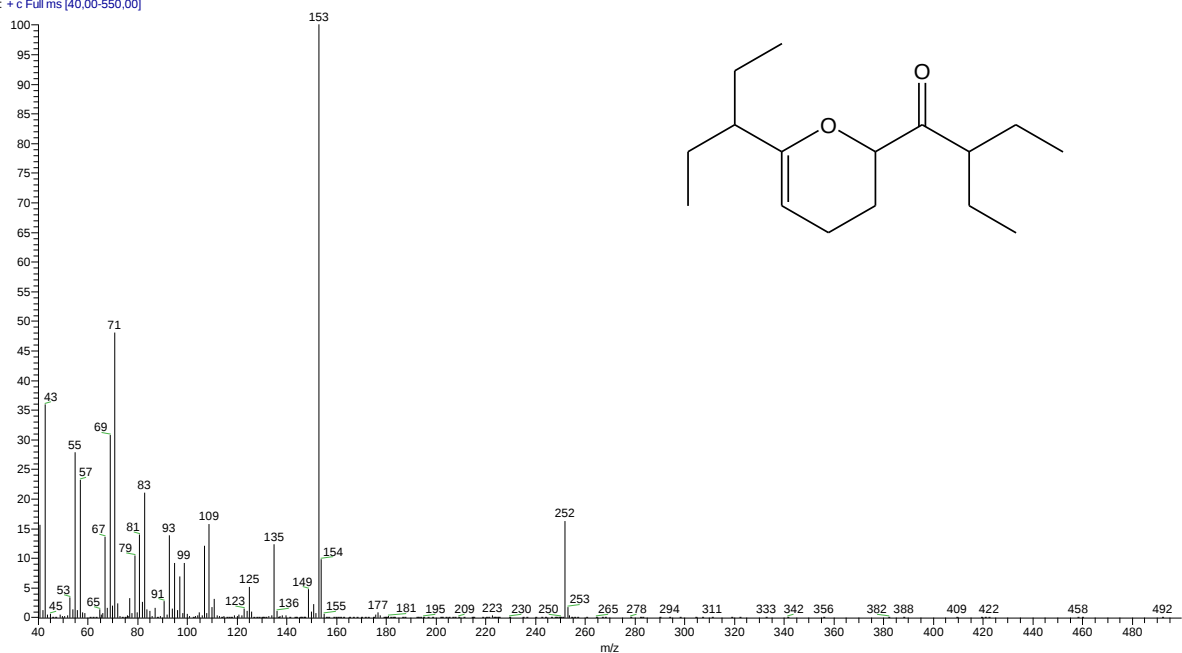


Figure S4. EI mass spectrum of compound 2 in the extract of *P. krivolutskyi* with the tentative structure

2) Supporting Figures – NMR

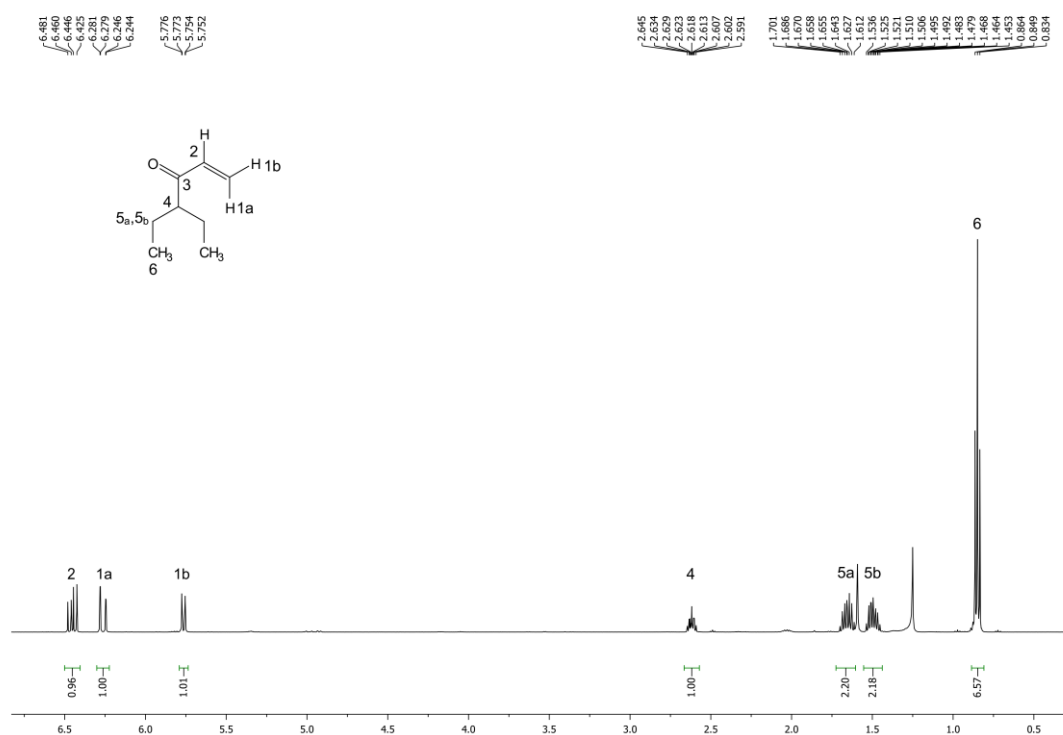


Figure S5. ^1H NMR (500 MHz, CDCl_3) spectrum of the *S. continentalis* extract together with chemical structure of julidone and assignments of its signals.

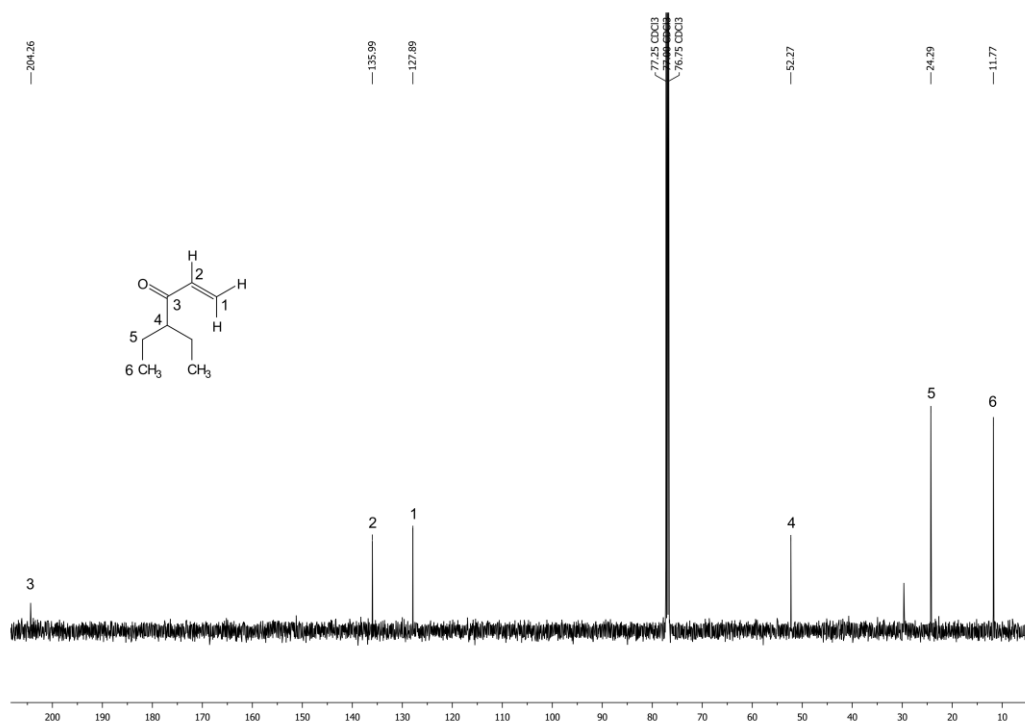


Figure S6. ^{13}C NMR (125 MHz, CDCl_3) spectrum of the *S. continentalis* extract together with chemical structure of julidone and assignments of its signals.

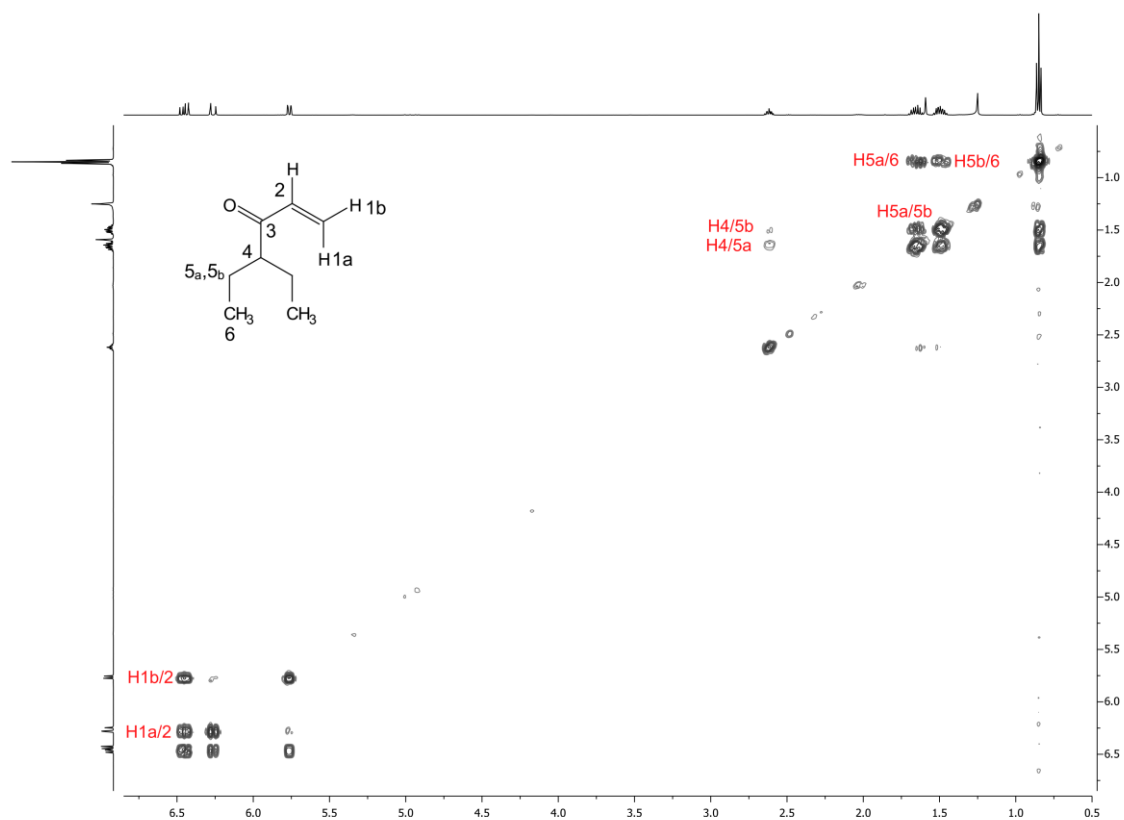


Figure S7. ^1H , ^1H -COSY (500 MHz, CDCl_3) spectrum of the *S. continentalis* extract, together with chemical structure of julidone and assignments of its signals.

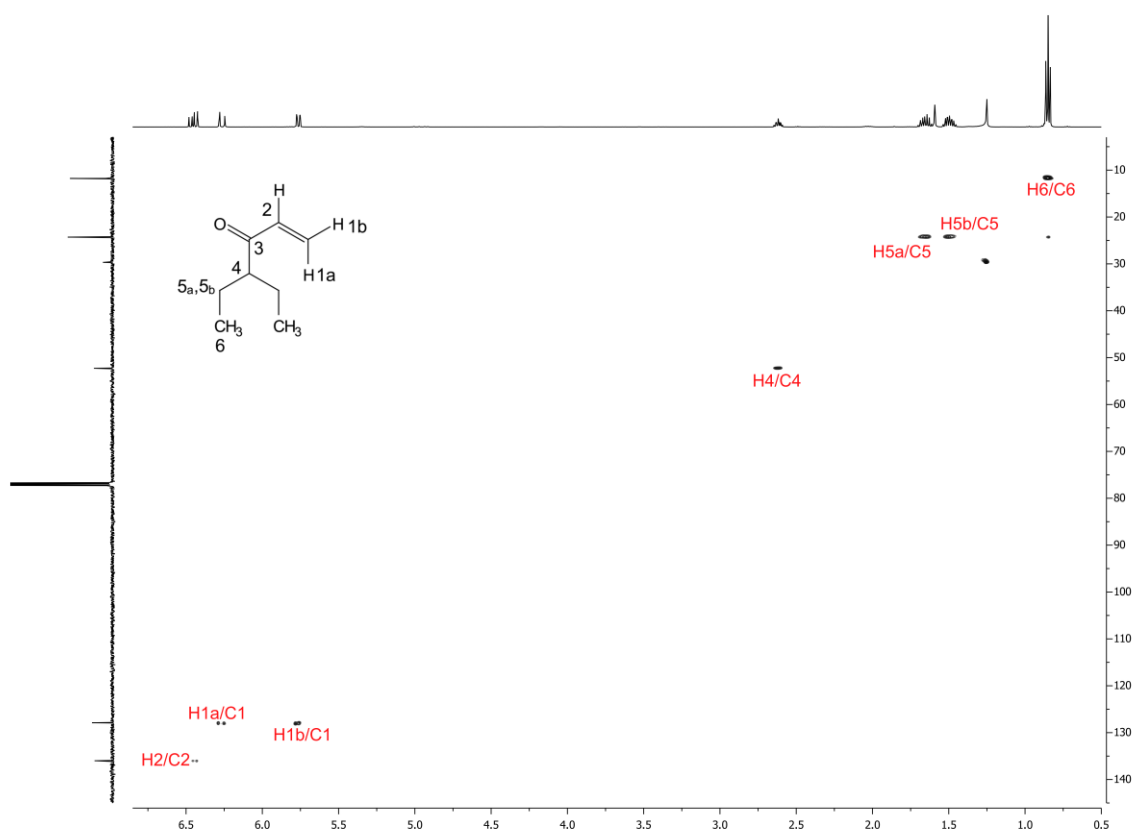


Figure S8. ^1H , ^{13}C -HSQC (500 MHz, CDCl_3) spectrum of the *S. continentalis* extract together with chemical structure of julidone and assignments of its signals.

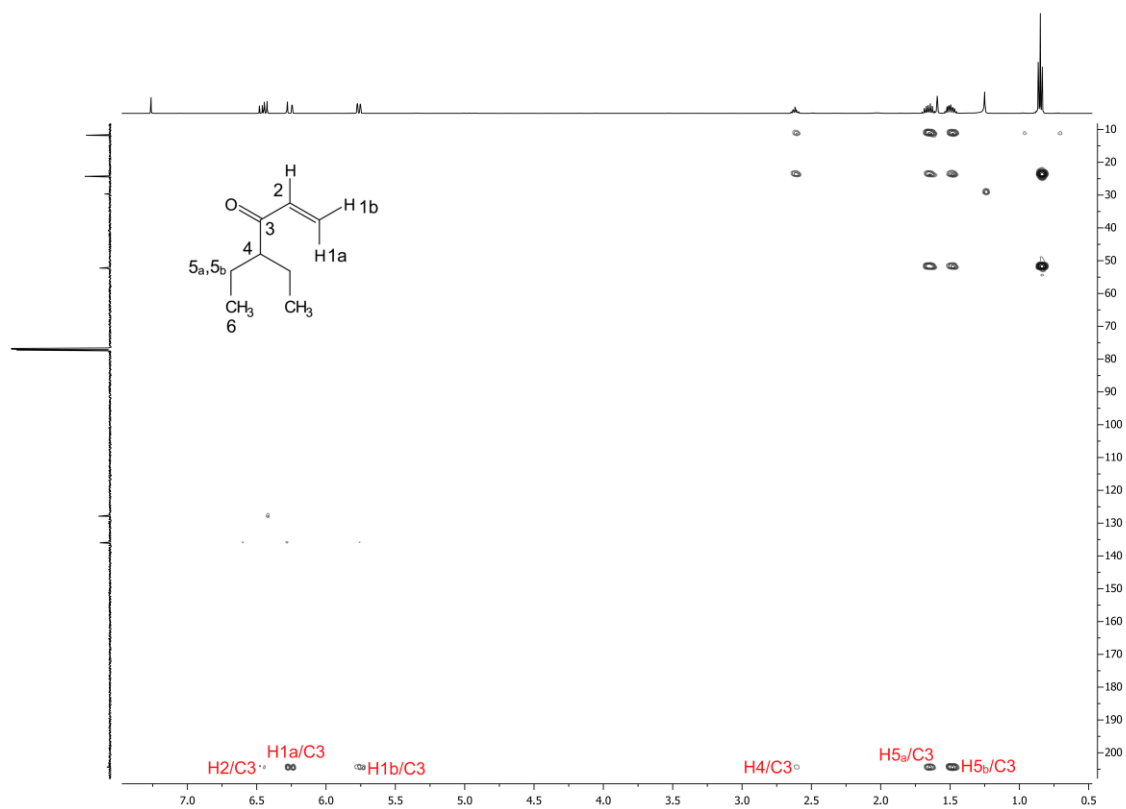


Figure S9. ^1H , ^{13}C -HMBC (500 MHz, CDCl_3) spectrum of the *S. continentalis* extract, together with chemical structure of julidone and assignments of important correlations of C3 signal at 204.26 ppm.