

Supporting Information

For

Green Synthesis, Formulation and Test Field of *Lymantria monacha* L. (Lepidoptera: Lymantriidae) Sex Pheromone in East European Region

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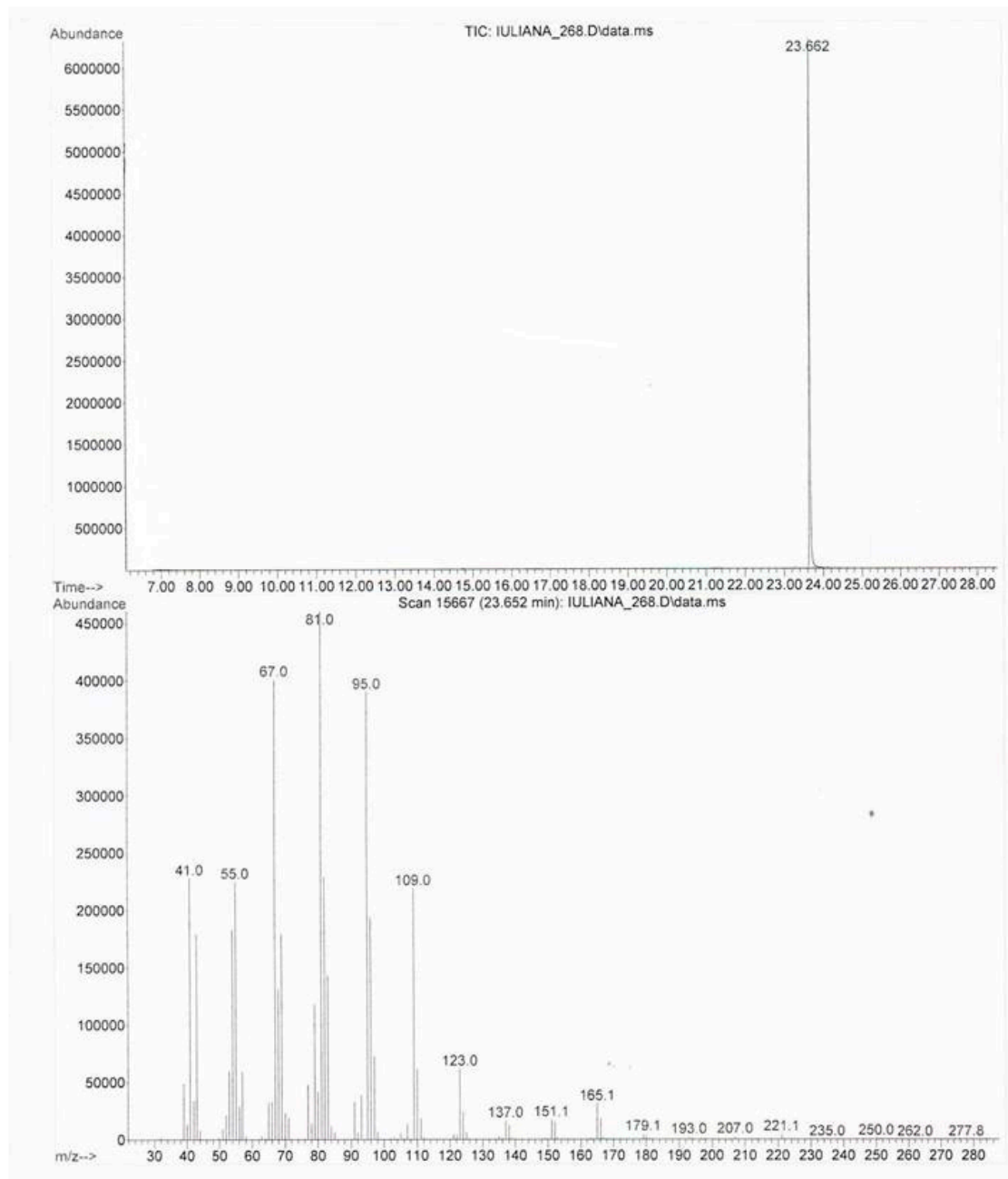
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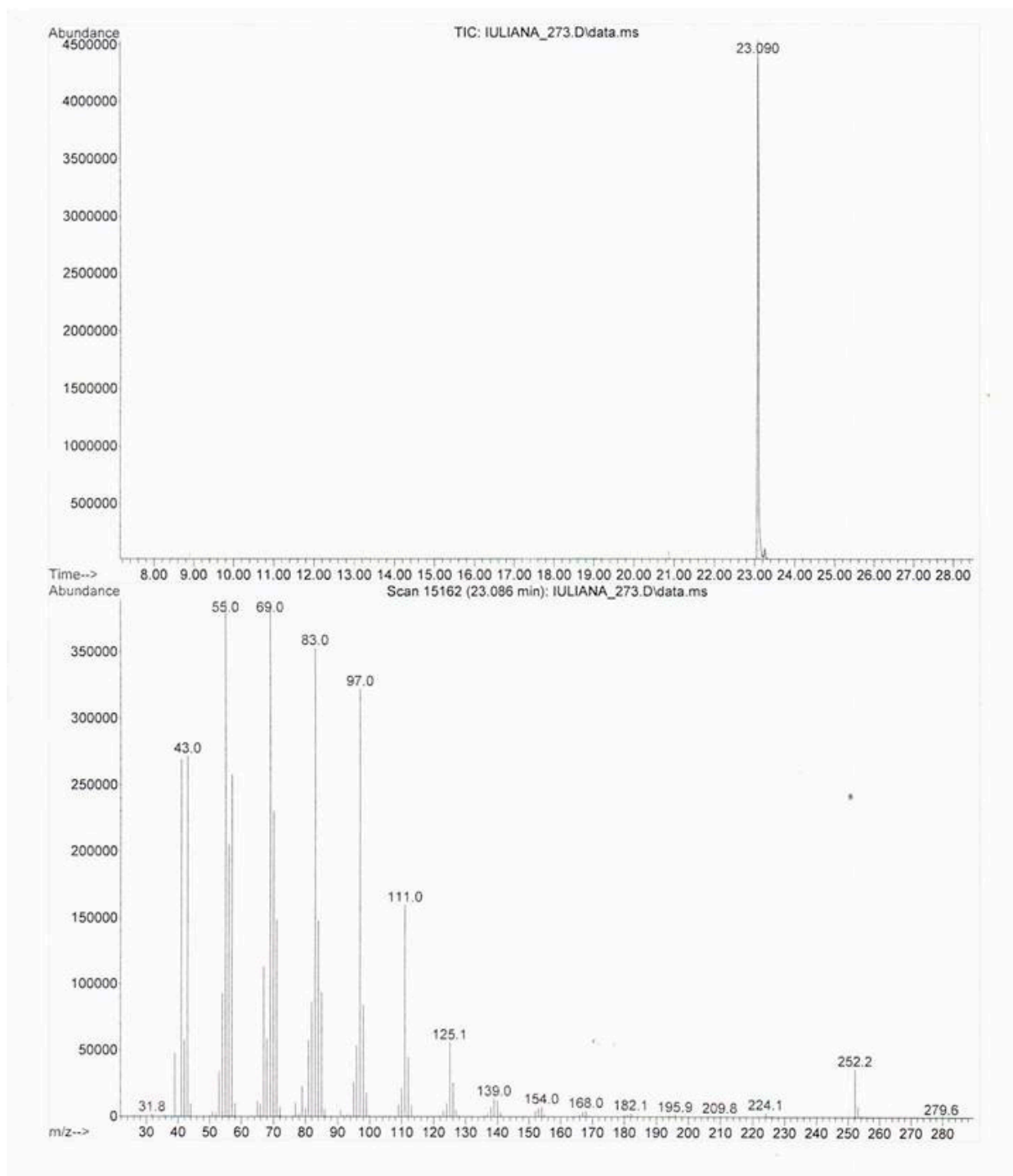
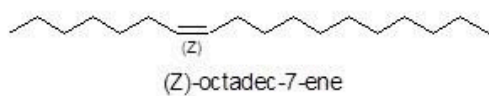
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GC-MS spectra of all compounds

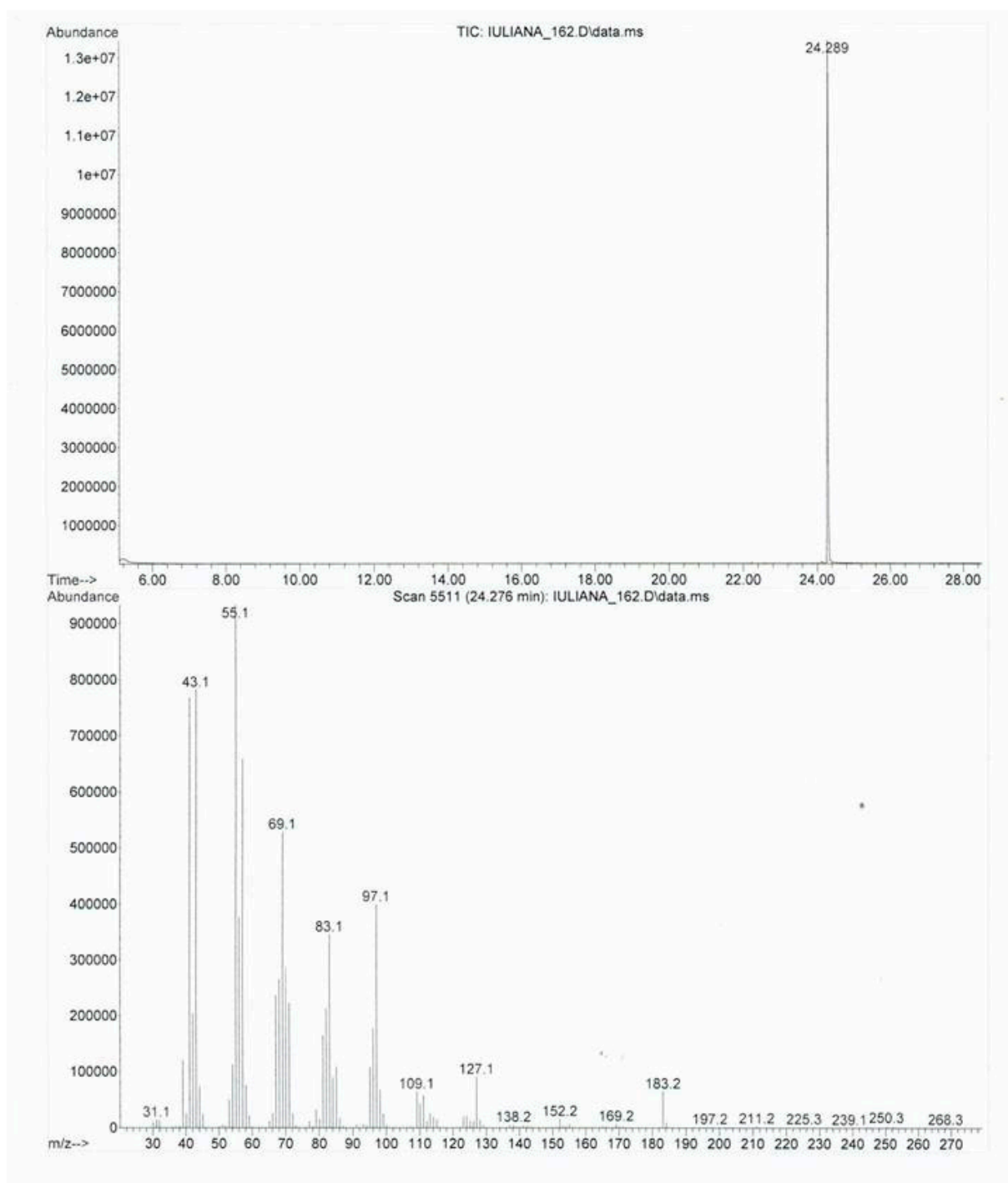
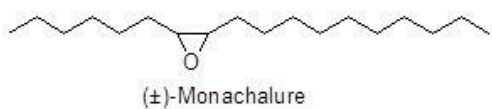
7-Octadecyne (6), S1



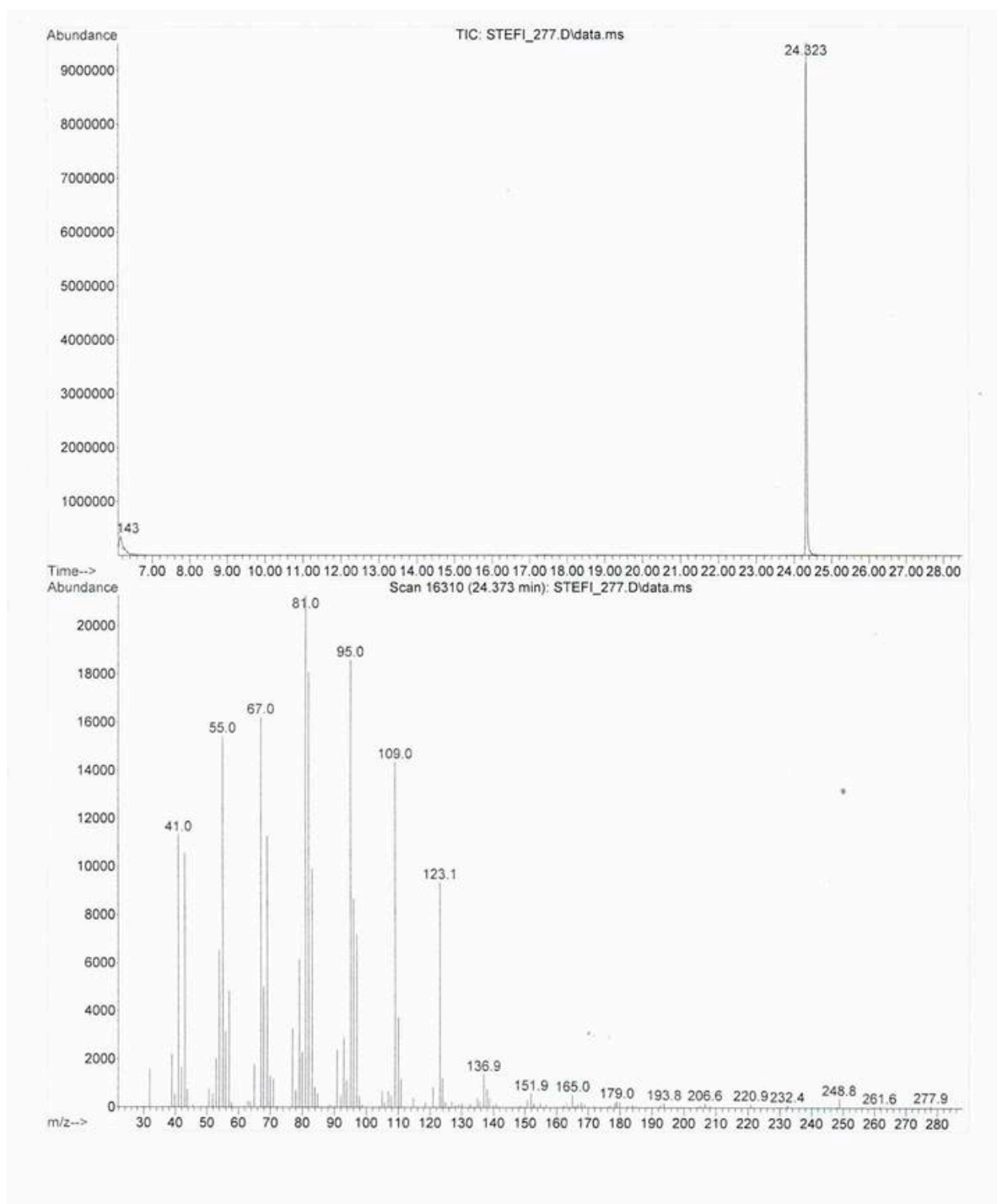
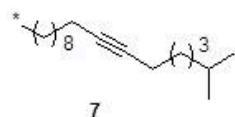
Z-7-Octadecene (8), S2



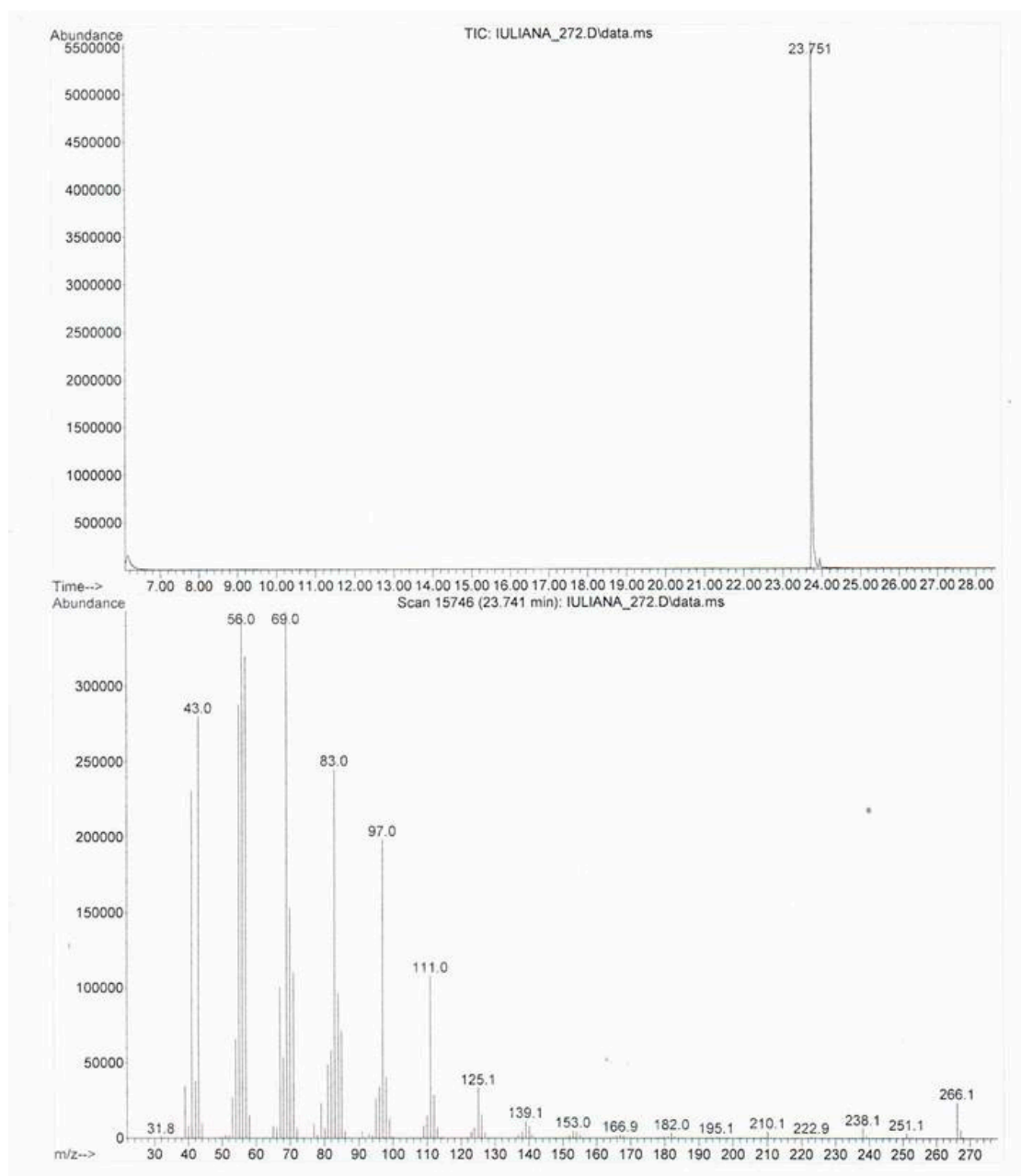
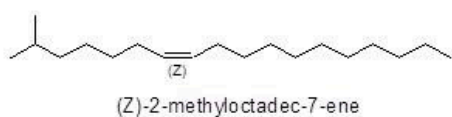
(±)-Monachalure (1), S3



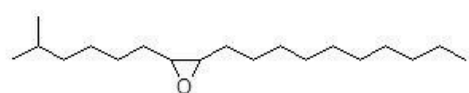
2-Methyl-7-octadecyne (7), S4, * Abbreviated structural formula in ChemDraw.



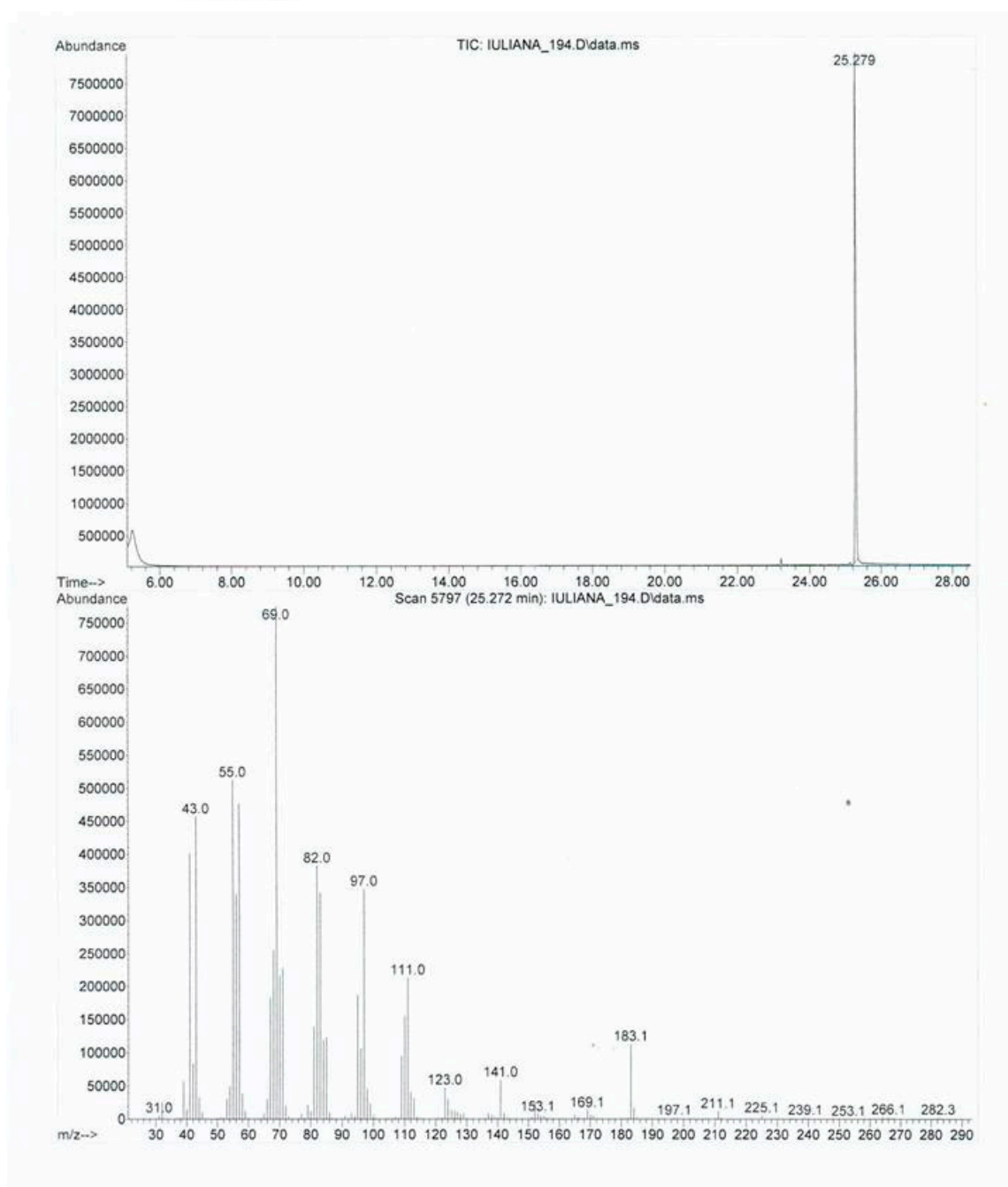
Z-2-Methyl-7-octadecene (9), S5



(±)-Disparlure (2), S6

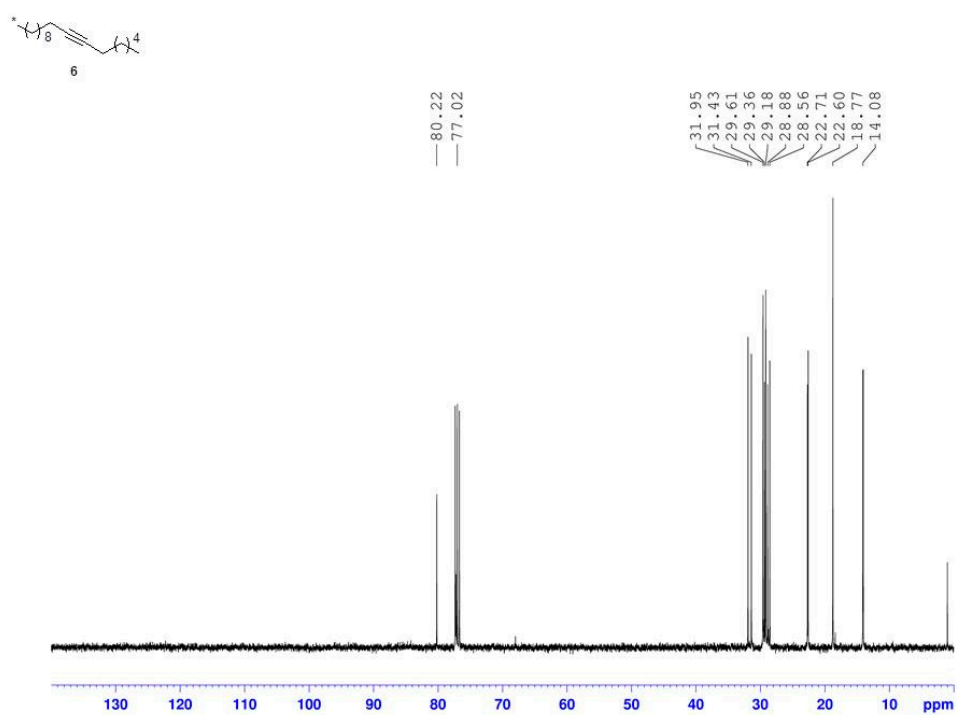
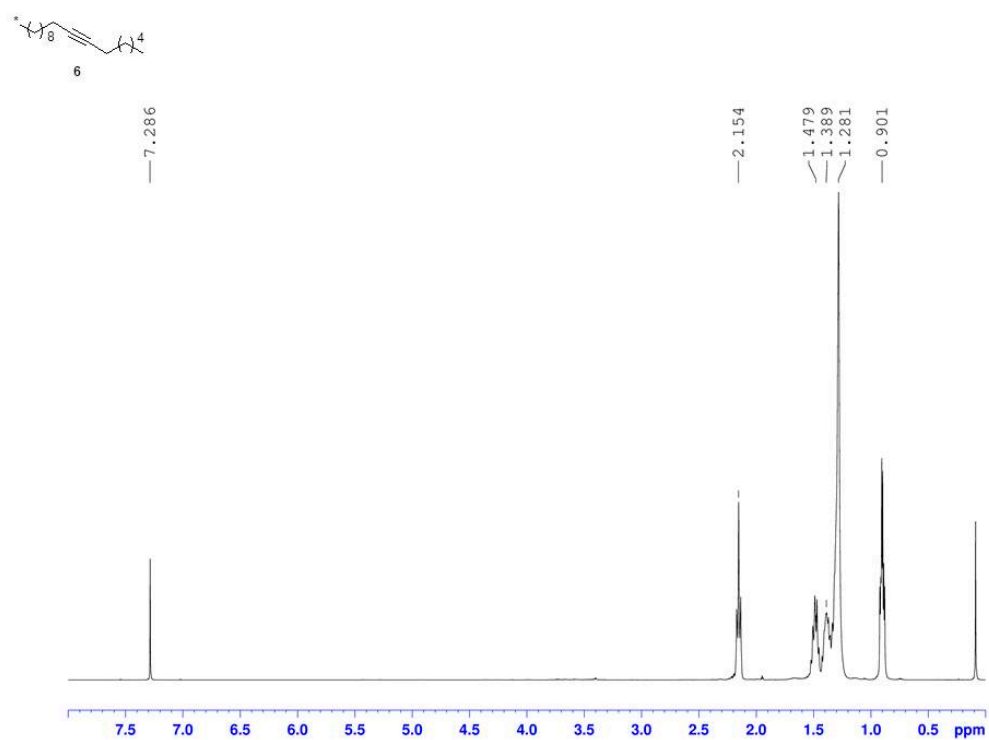


(±)-Disparlure

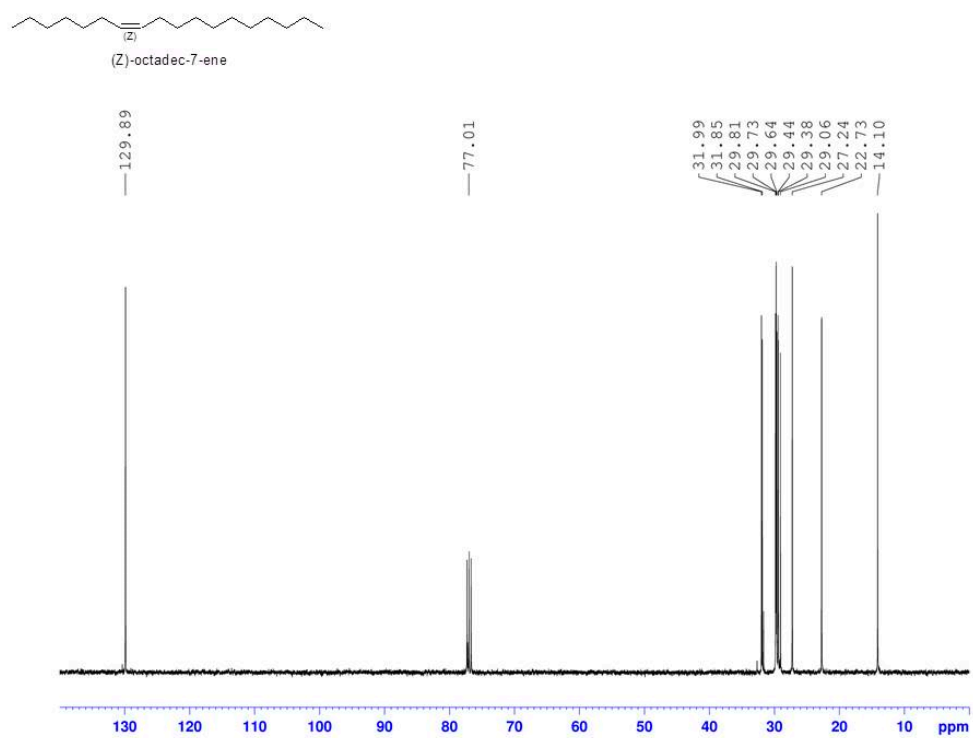
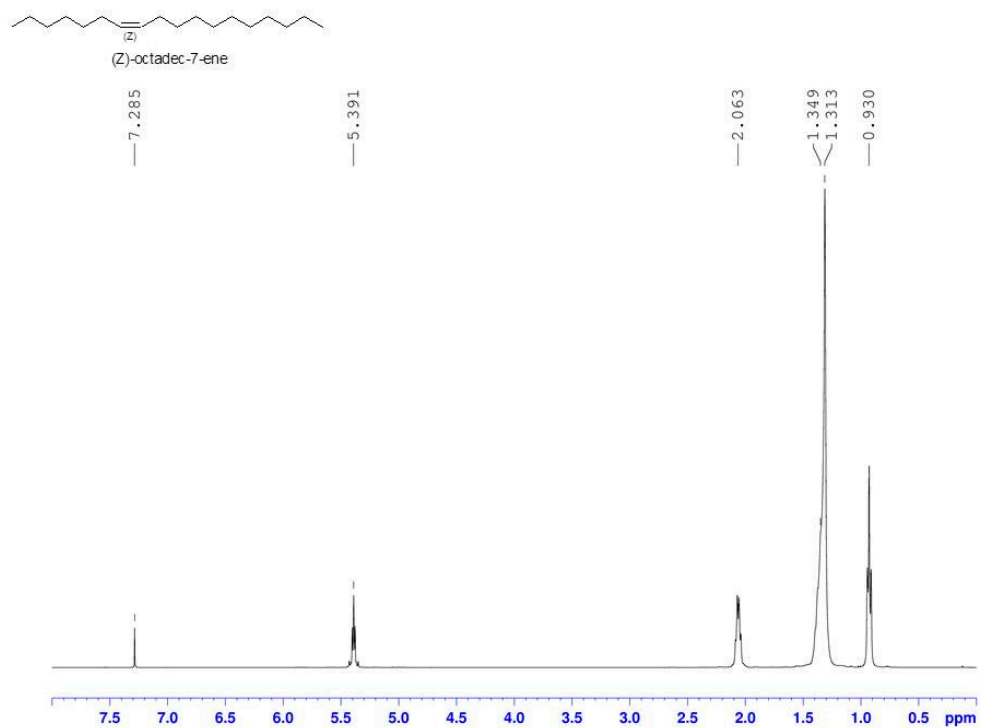


NMR-Analysis

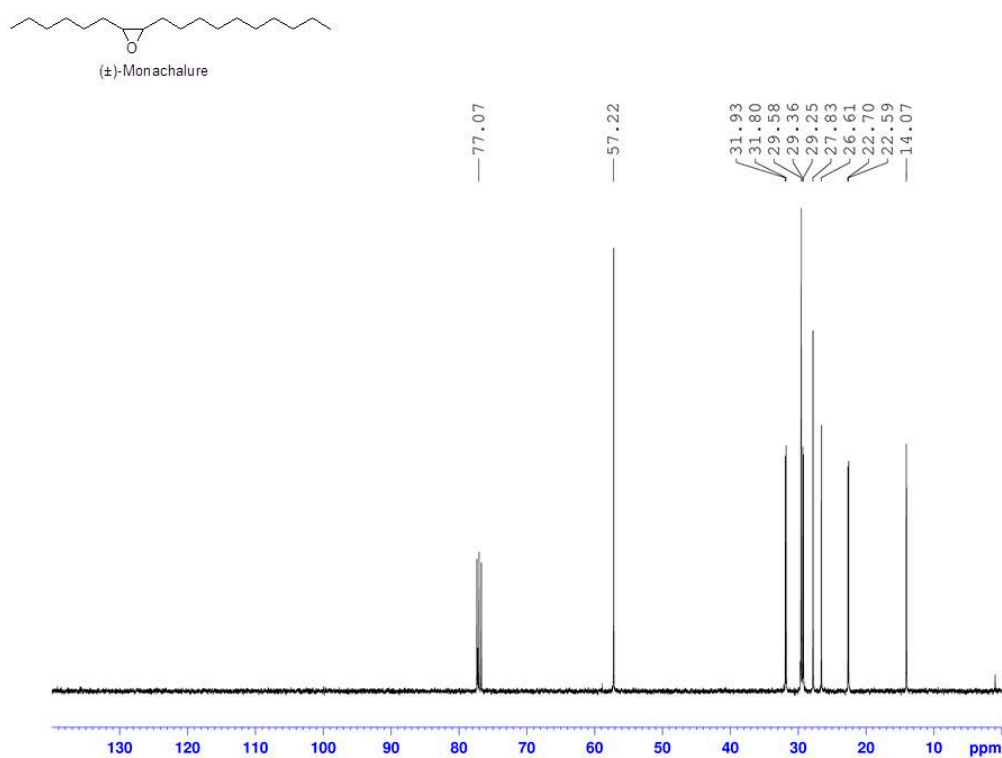
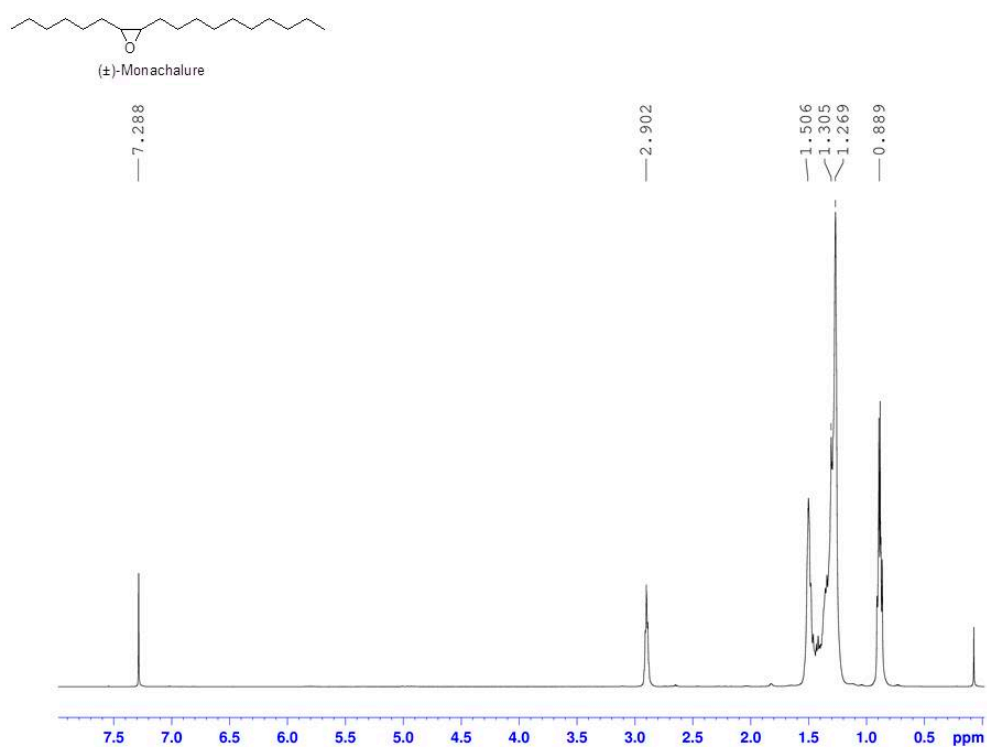
7-Octadecyne (6), S7 ^1H -NMR, S8 ^{13}C -NMR, * Abbreviated structural formula in ChemDraw.



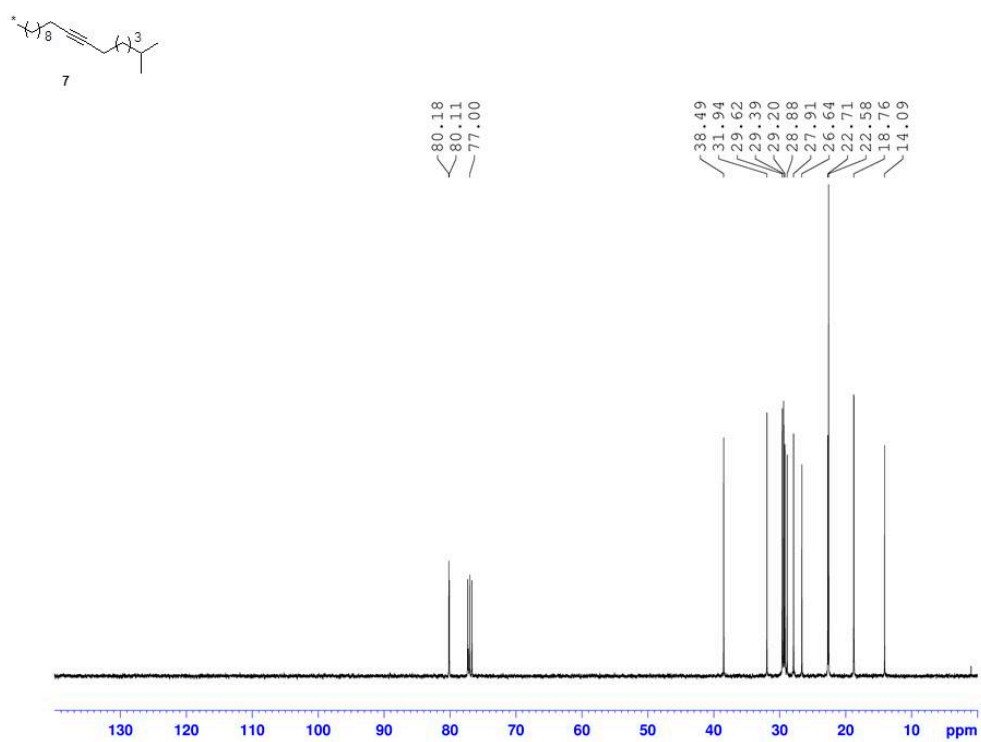
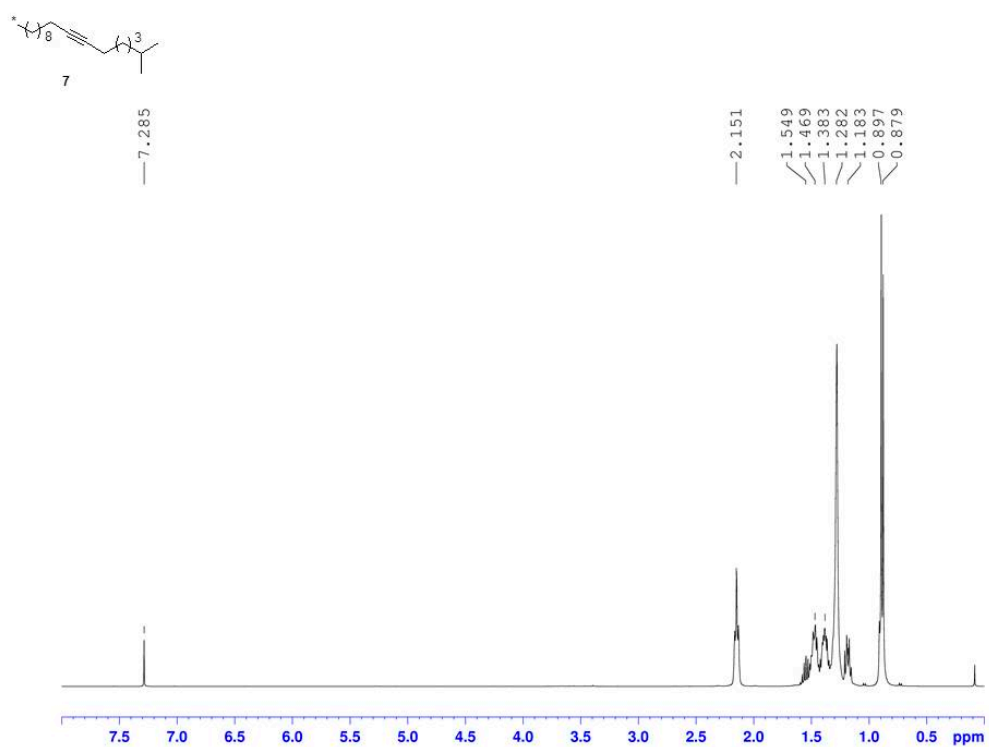
(Z)-7-Octadecene(8), S9 ^1H -NMR, S10 ^{13}C -NMR



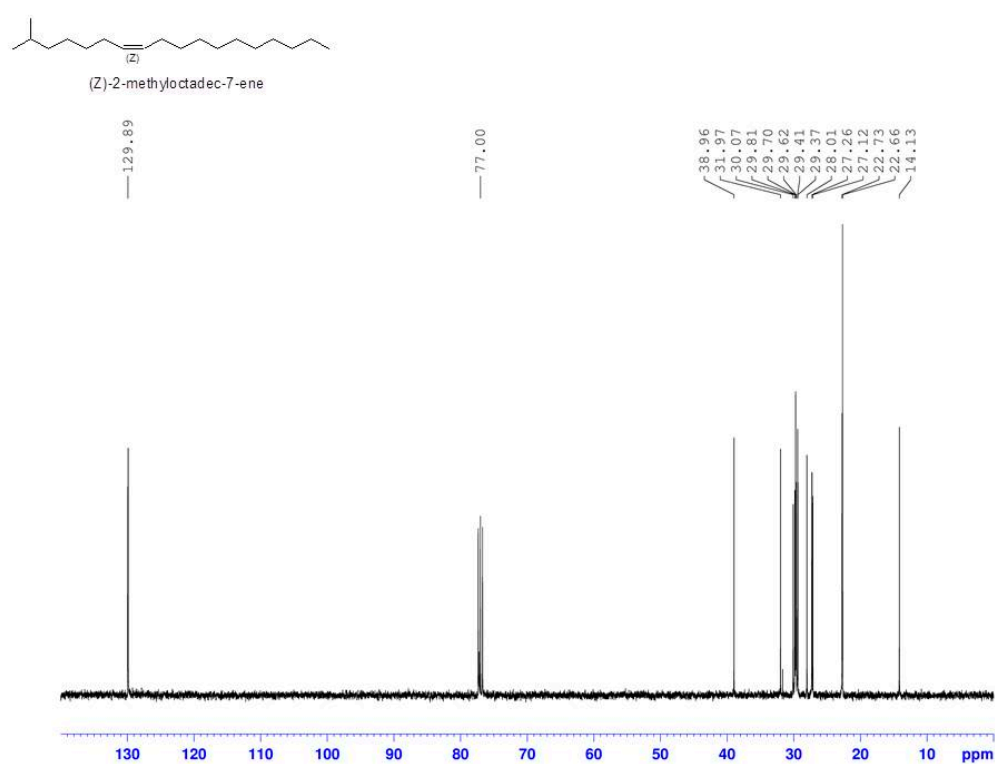
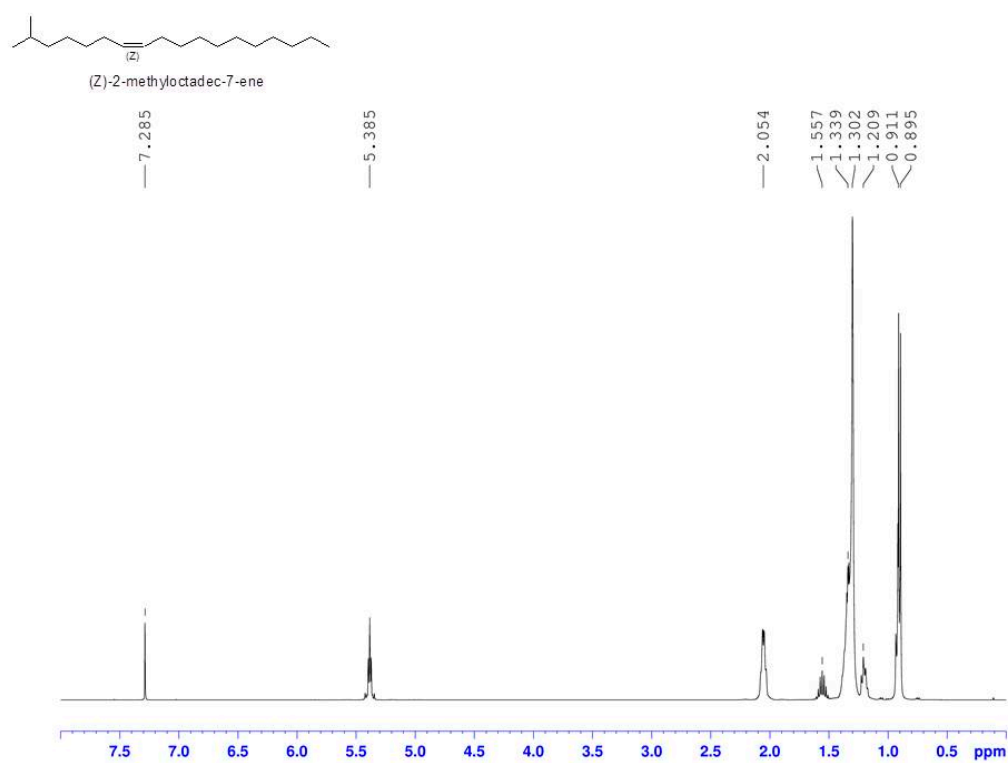
(±)-Monachalure (1), S11 ^1H -NMR, S12 ^{13}C -NMR



2-Methyl-7-octadecyne (7), S13 ¹H-NMR, S14 ¹³C-NMR * Abbreviated structural formula in ChemDraw.



Z-2-Methyl-7-octadecene (9), S15 ^1H -NMR, S16 ^{13}C -NMR



(±)-Disparlure(2), S17 ^1H -NMR, S18 ^{13}C -NMR

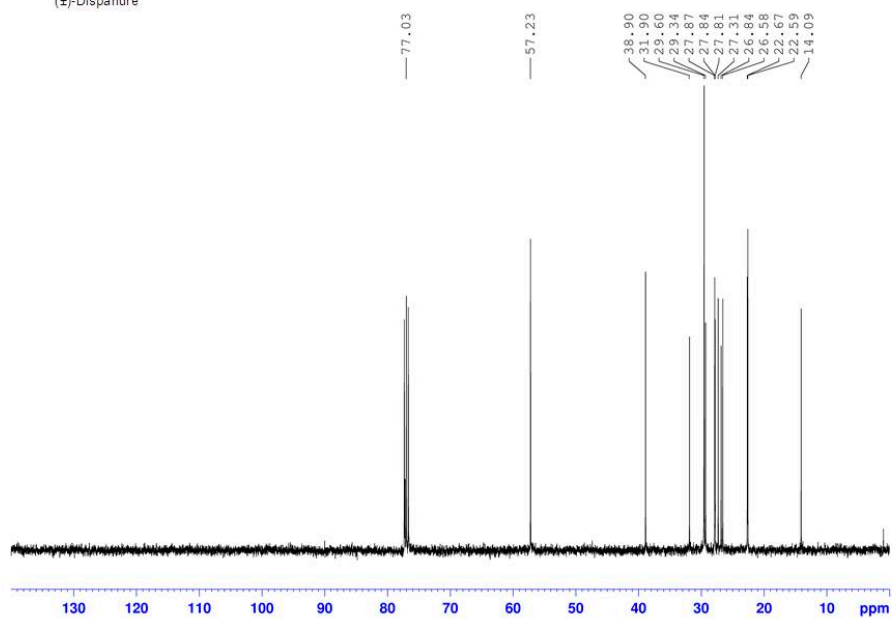
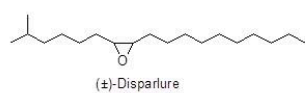
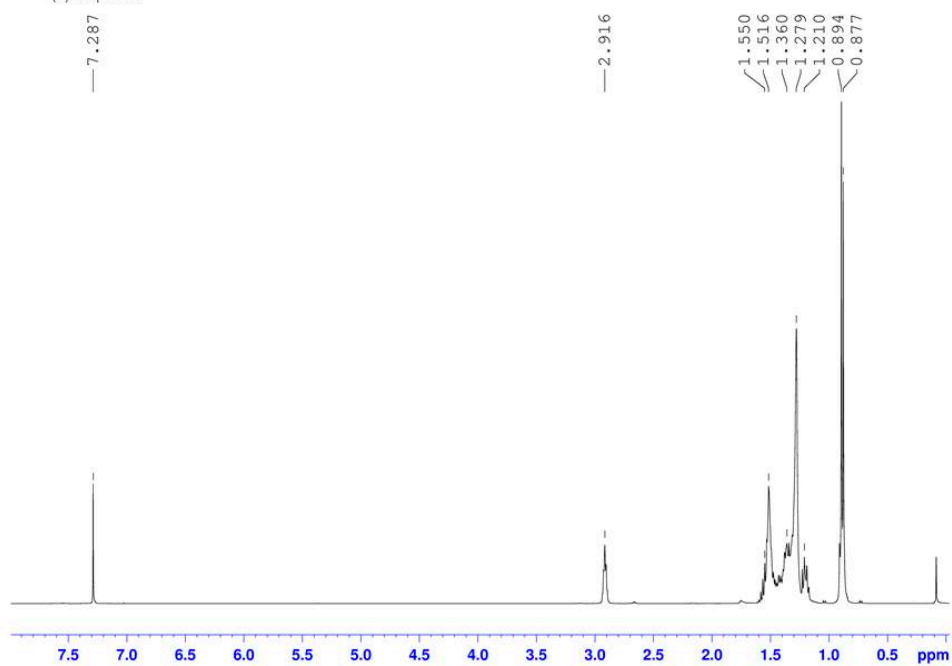
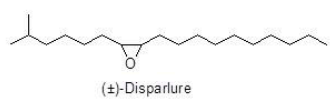




Figure S1. Pheromonal trap atraLYMON, photo Duduman M-L



a)



b)

Figure S2. Alkylation installation a) Cooling bath, b) heating bath, photo Iuliana Vasian



Figure S3. Hydrogenation installation, photo Iuliana Vasian