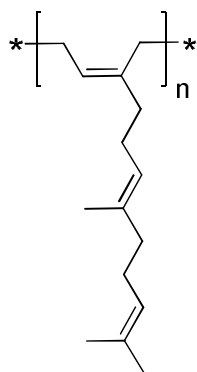


Sample Name:

POLYFARNESENE, rich in 1,4-addition

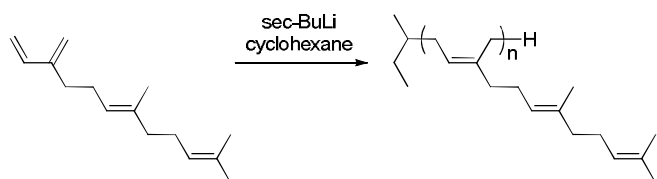
Sample # **P18391A-Farne**



$M_n \times 10^3$ (g/mol)	M_w/M_n
9.0	1.24

Synthesis:

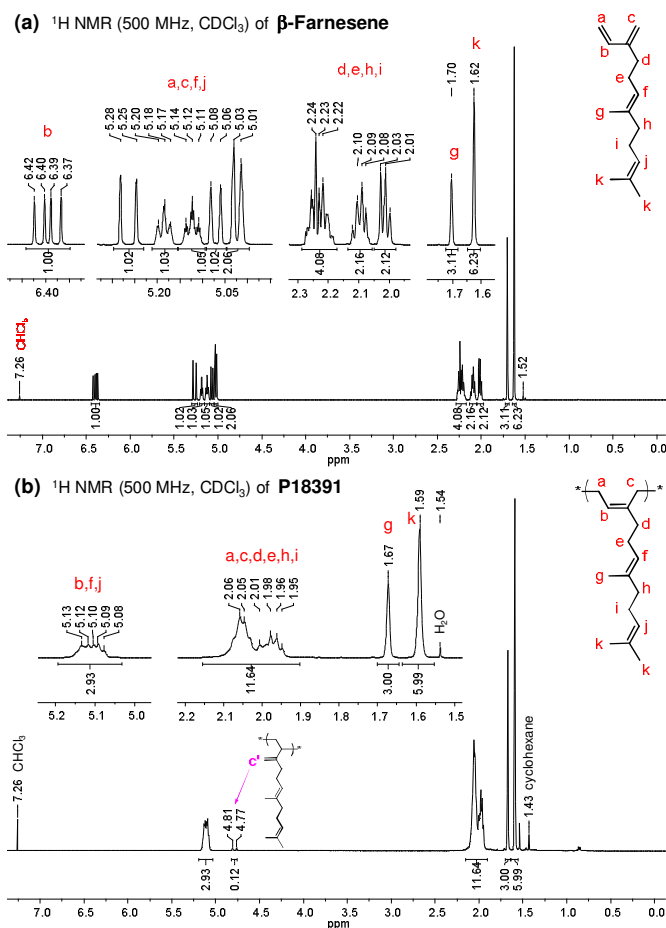
1,4-Polyfarnesene was synthesized by anionic living polymerization of β -farnesene in cyclohexane using *sec*-BuLi as an initiator.



Characterization:

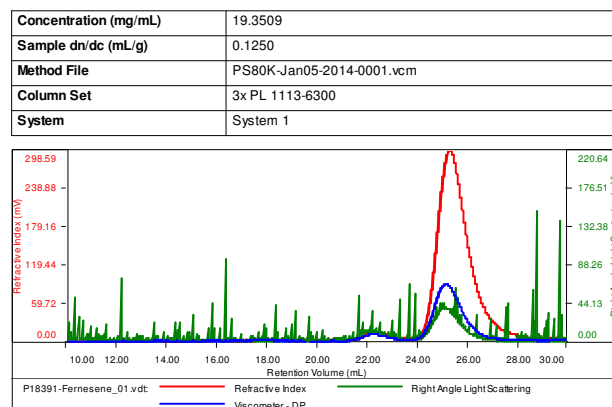
The absolute molecular weight and polydispersity index (PDI) were determined by size exclusion chromatography (SEC) using light scattering (LS) detector. SEC analysis was performed on a Varian ProStar liquid chromatograph equipped with UV-vis, RI and LS triple detector from Viscotec, three SEC columns from Supelco (G6000-4000-2000 HXL), and using THF as an eluent.

^1H NMR spectra: (a) β -farnesene, (b) polyfarnesene.



1,4-Polyfarnesene contains $\leq 6\%$ of 1,2-polyfarnesene.

SEC elugram of polyfarnesene.



Sample	M_n	M_w	M_p	M_w/M_n	IV
P18391-Farnesene_01.vdt	9,157	11,320	12,341	1.236	0.0832