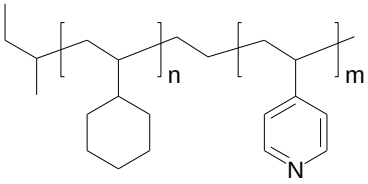
Sample Name:
Poly Vinyl Cyclohexane-b-4Vinylpyridine
Synonym: Poly Cyclohexyl ethylene-b-4Vinylpyridine

Sample #: **P16192-VCH4VP**

Structure:

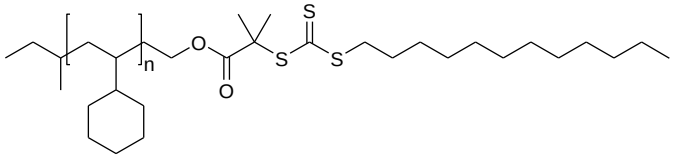


Composition:

Mn x 10^3	PDI
12.5-b-48.0	1.3

Synthesis Procedure:
The polymer was synthesized by combination of anionic polymerization and RAFT process.

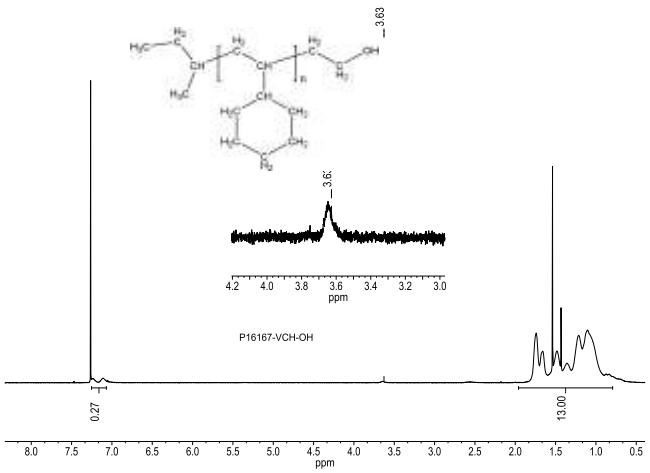
Structure of PVCH-RAFT:



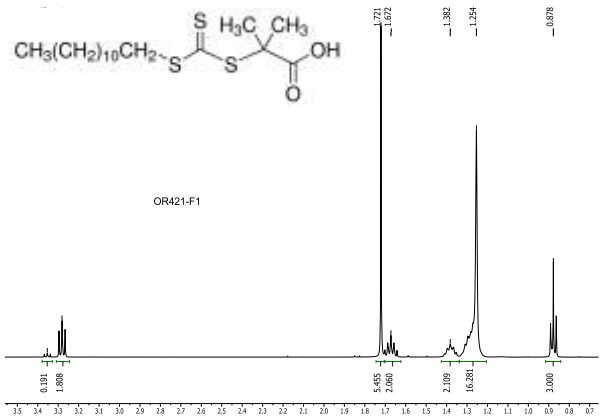
Characterization:
The product was characterized by ^{1}H NMR.

Solubility:
Polymer is soluble in toluene (not clear solution), $CHCl_3$, THF and DMF depending on the ratio of PVCH and P4VP block.

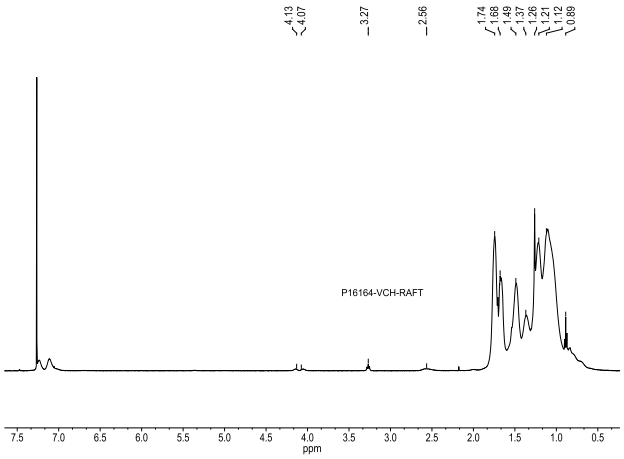
^{1}HNMR of Polymer PVCH-OH;



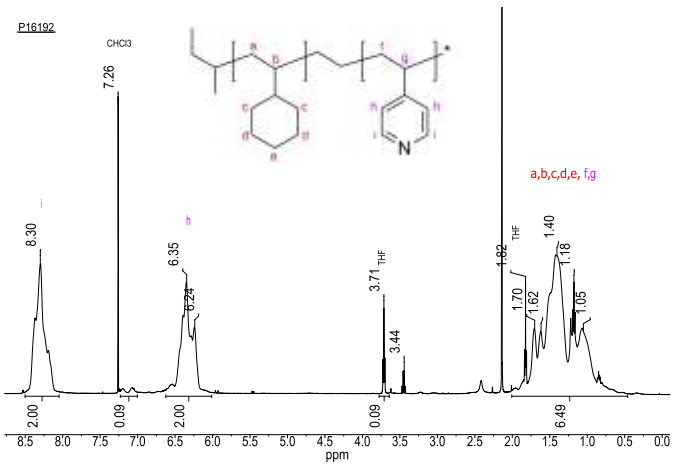
^{1}HNMR spectrum of the RAFT-CTA



^{1}HNMR spectrum of the PVCH-RAFT



^{1}HNMR spectrum of the PVCH-4VP:



Reference:
Synthesis and thermal properties of poly(vinylcyclohexane)-*b*-poly(4-vinylpyridine) diblock copolymers prepared via RAFT polymerization

Yinghua Qi, Iryna I. Perepichka, Zhengji Song and Sunil K. Varshney
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