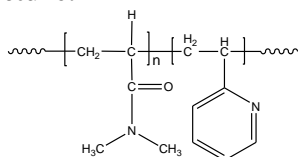


**Sample Name:** Poly(N-N-dimethylacrylamide-b-2-Vinylpyridine)

**Sample #:** P41443-DMA2VP

**Structure:**



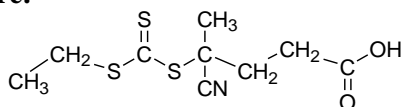
**Composition:**

Mn x 10 <sup>3</sup> DMA-2VP	PDI
21.0-b-27.0	1.3

**Synthesis Procedure:**

The polymer is prepared by RAFT polymerization process.

**Structure:**



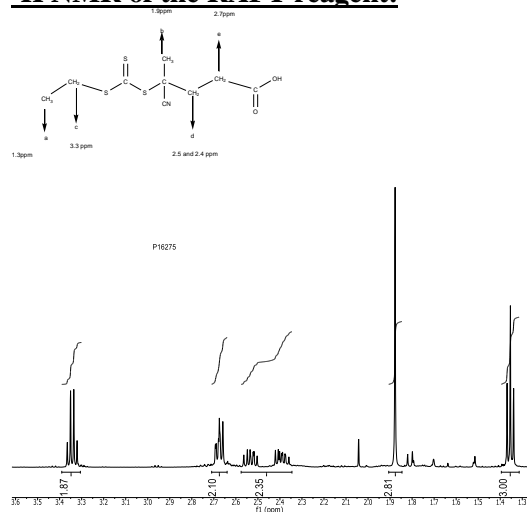
**Composition:**

Formula	C <sub>9</sub> H <sub>13</sub> NO <sub>2</sub> S <sub>3</sub>
Mw	263.40
Purity	> 90%

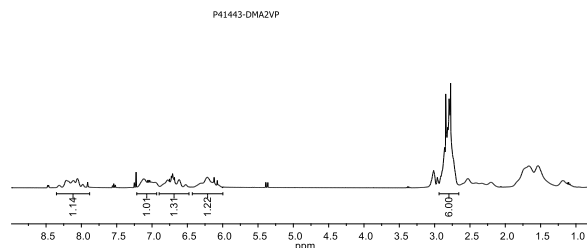
**Characterization:**

The molecular weight and polydispersity index (PDI) of the polymer are obtained by size exclusion chromatography in DMF at 50 °C using triple detectors

**<sup>1</sup>H NMR of the RAFT reagent:**



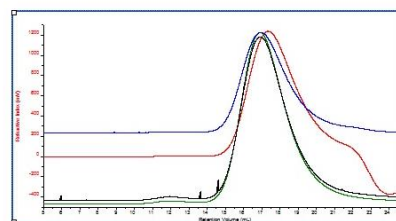
**HNMR spectrum of Block copolymer:**



**SEC elugram of DMA block:**

P41431-DMA

dn/dc	0.0870
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA64K-Oct2018-0006 vcm

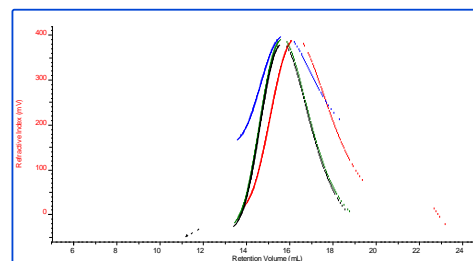


Sample	Mn	Mw	Mz	IV	Mw/Mn
P41431_1_2018-10-30	21,053	24,226	29,793	0.1713	1.151

**SEC elugram of Block Copolymer:**

P41443-DMA2VP

dn/dc	0.0870
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA64K-Oct2018-0006 vcm



Sample	Mn	Mw	Mz	IV	Mw/Mn
P41443_1_2018-10-31	47,712	61,639	107,292	0.1704	1.292