Sample Name: **Oligomers of Poly(Methylmethacrylate)**

Sample #: **P11179C-MMA Oligomer**

Structure:
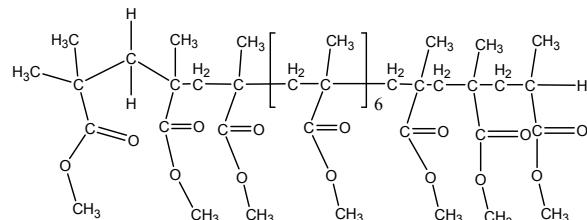
Composition:

| Degree of Polymerization	PDI
D_P by HNMR: 12	1.15

Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. Degree of polymerization by HNMR analysis.

Methyl at 0.86 Syndio; 1.03 hetero and 1.2 iso contents

Back bone CH2 at 1.7 ppm to 2.1 ppm

1.17ppm

1.17ppm

3.6 to 3.7 ppm

H-NMR of the polymer:

SEC of Sample:

P11179C-MMA (Oligomer)

Ve (ml)
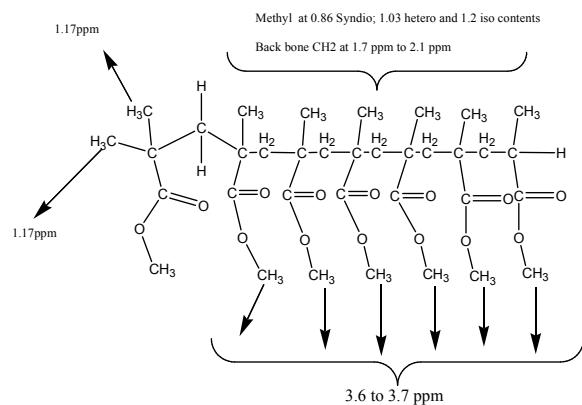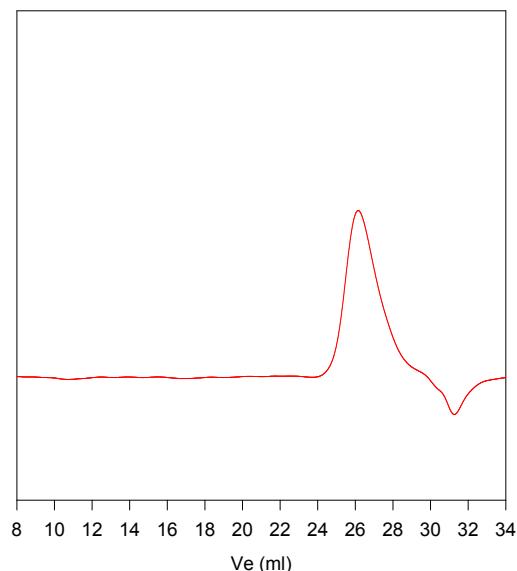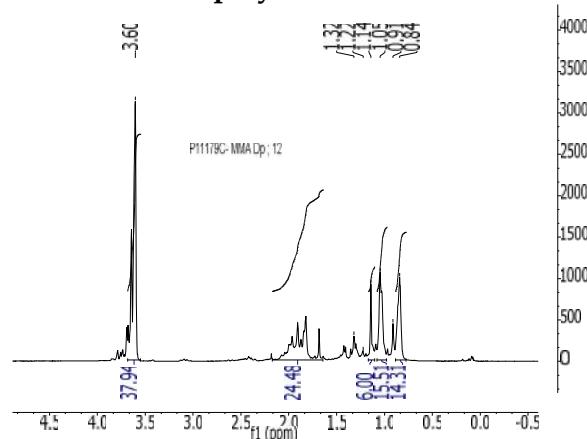
Size Exclusion Chromatography of Poly methylmethacrylate

Dp of MMA monomer is : 12   Mw/Mn 1.15

References:

1. Ph. Teyssie, Ph. Bayard, R. Jerome, **S. K. Varshney**, and J. S. Wang, *35th IUPAC International Union of Pure & Applied Chemistry International Symposium on Macromolecules"* 1994, 67.

2. R. Fayt, R. Forte, C. Jacobs, R. Jerome, T. Ouhadi, Ph. Teyssie and **S. K. Varshney,** *Macromolecules, 1987, 20, 1442-1444.*

3. Jerome, R. Forte, **S. K. Varshney**, R. Fayt, and Ph. Teyssie, "The Anionic Polymerization of Alkylacrylates:A Challenge" in the Recent Advances in Mechanistic and Synthetic Aspects of Polymerization: M. Fontanaille and A. Guyot Ed., NATO ASI Series *C 215,101 (1987), CA Vol. 108, 12, 094992.*

4. Ph. Teyssie, R. Fayt, C. Jacobs, R. Jerome, L. Leemans, and **S. K. Varshney** *Am. Chem. Soc.,Polym. Prepr. 1988, 28, 2, 52-53*