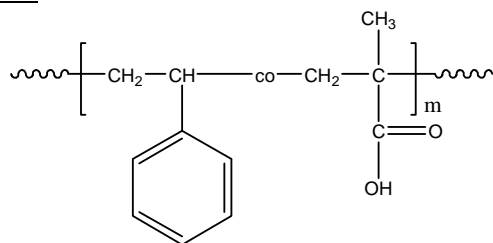


Sample Name: Random copolymer Poly(styrene-co-methacrylic acid)

Sample # P14777A-SMAAran

Structure:



Composition:

Mn x 10 ³ PS-co-PMAA	PDI
158.0	1.45
PS (mol%):	99

Synthesis Procedure:

The polymer was prepared by controlled radical (RAFT) process.

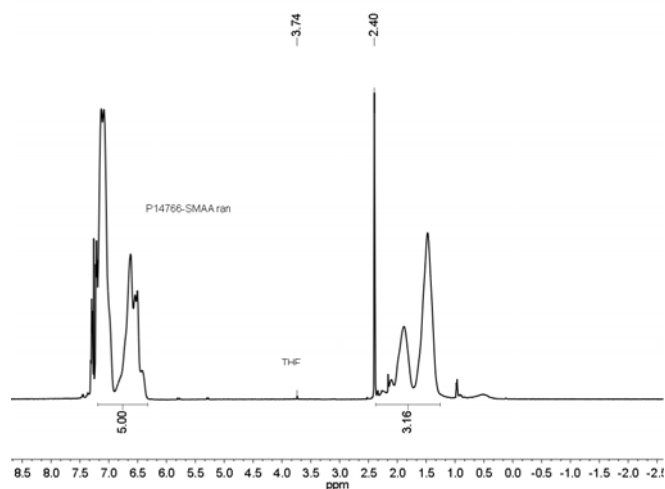
Characterization:

The copolymer composition was determined from ¹H-NMR spectroscopy. The molecular weight and polydispersity index were determined by size exclusion chromatography (SEC) THF at 35°C.

Solubility:

The polymer is soluble in acetone; and insoluble in ether, hexane.

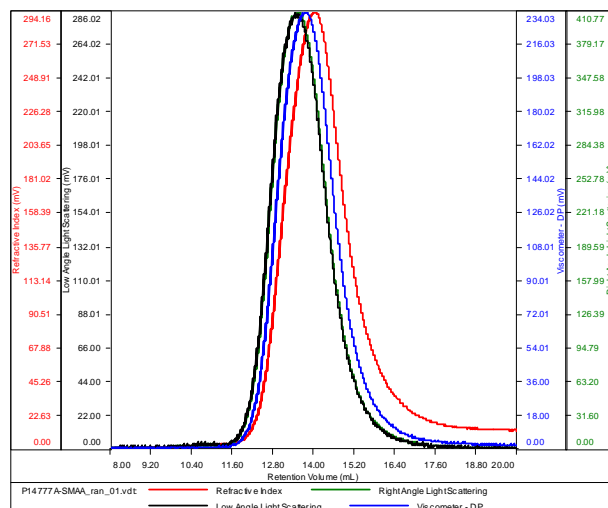
1H NMR spectrum (500 MHz, CDCl₃):



SEC elugram:

SAMPLE ID: P14777A-SMAAran

Conc (mg/mL)	11.6055
dn/dc (mL/g)	0.1650
Method	PS80K-AUG2014-0000.vcm
Solvent	DMF w 0.03M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P14777A-SMAA_ran_01.vdt	153,711	226,049	216,014	1.471	0.4457