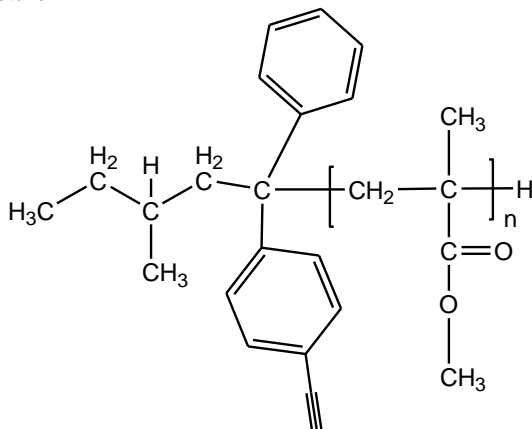


Sample Name: Alkyne Terminated

Poly(methyl methacrylate)

Sample #: P18719-MMA-Alkyne

Structure:



Composition:

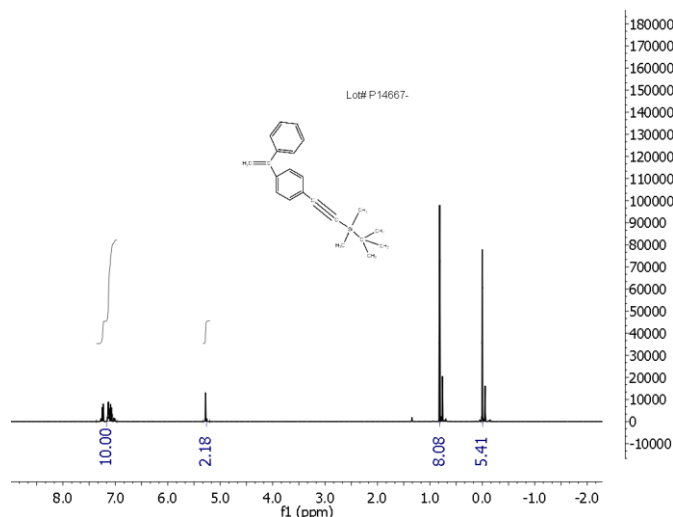
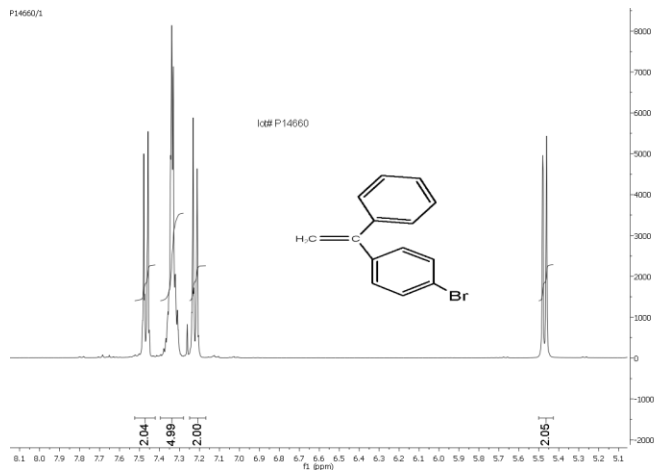
Mn x 10 ³	PDI
31.0	1.08
Alkyne functionality	>90%

Synthesis Procedure:

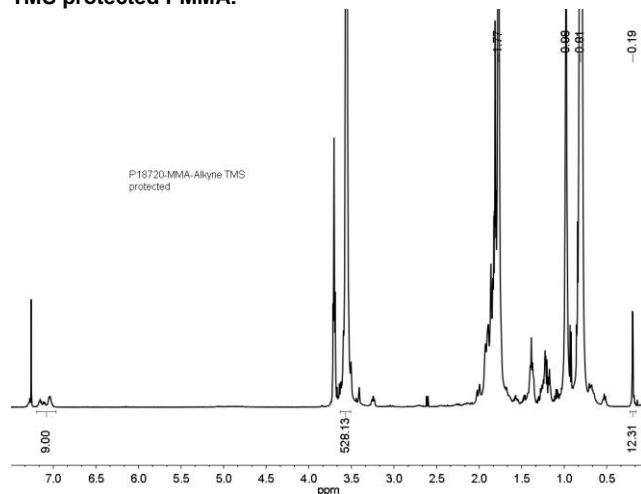
By anionic polymerization:

DPE-4Br:

The product was characterized by NMR and FTIR.



TMS protected PMMA:



Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

Functionality: functionality of the obtained polymer was determined by proton NMR.

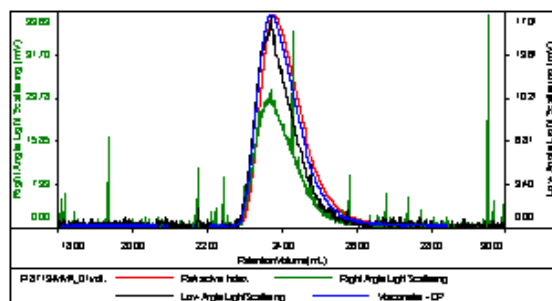
Solubility:

Vinyl terminated PMMA is soluble in DMF, THF, toluene, and CHCl₃. It precipitates from methanol, hexane, water.

SEC of Sample:

Sample ID: P18719-MVA

Concentration (mg/mL)	16.2228
Sample divs: (mL/g)	0.0840
Method File	PS804Apr1520140000.ucm
Column Set	3x PL 1113-6000
Solvent	THF



Sample	Mn	Mw	Mp	Mw/Mn	PV
P18719-MVA_01.ucl	30,901	33,190	34,121	1.073	0.0708

