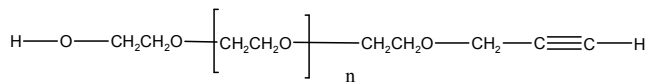


Sample Name: **α -hydroxy ω -alkyne-Terminated Poly(ethylene glycol)****Sample:** P10221-EGOH-alkyne**Structure:****Composition:**

$M_n \times 10^3$	PDI
3.0	1.13

Synthesis Procedure:

α -hydroxy ω -alkyne terminated poly(ethylene glycol) was synthesized by proprietary method.¹ Please call us if you would like to know more.

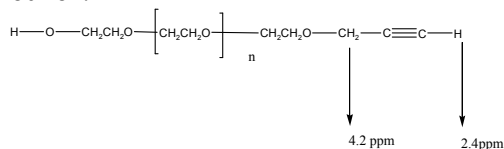
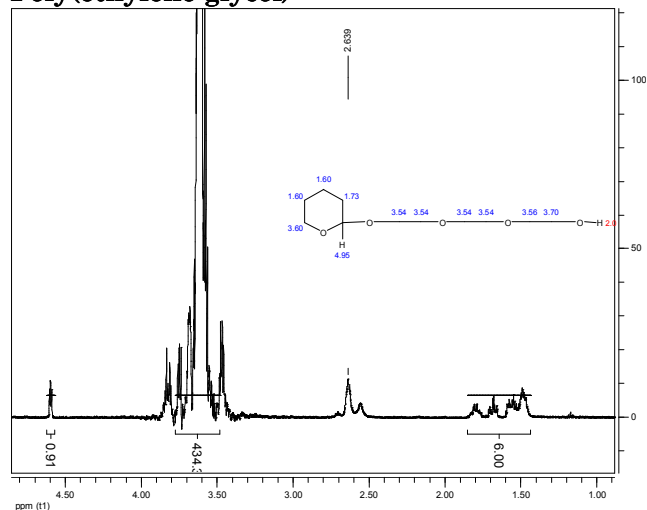
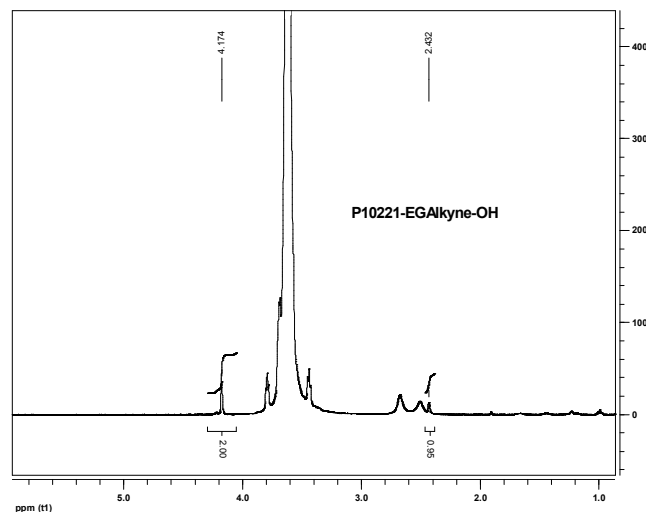
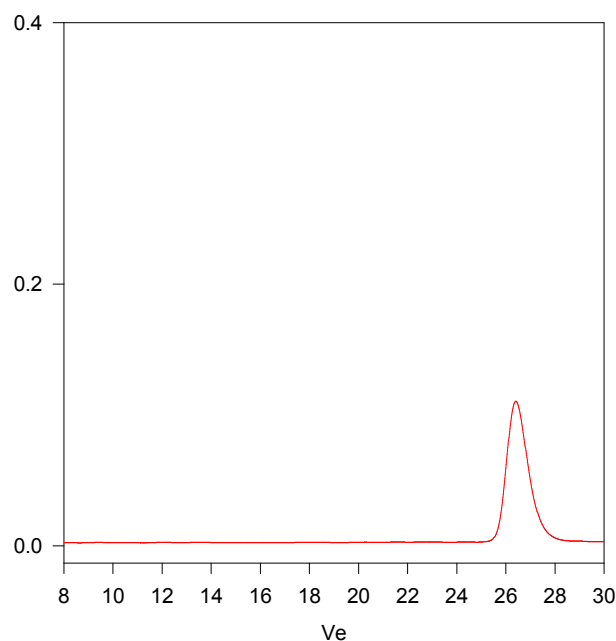
Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Functionality: Functionality of the polymer was determined by H NMR analysis or FT-IR spectroscopy

Solubility:

Polymer is soluble in water, methanol and ethanol, THF, CHCl_3 . It is precipitated out from cold ethanol, isopropanol, hexane and ether.

**HNMR α pyran ω -OH end functionalized Poly(ethylene glycol)****NMR Sepctrum of the product:****P10221-EGOHAlkyne**

Size Exclusion Chromatography of the Polymer:

 $M_w = 3000$, $M_n = 3300$, $M_w/M_n = 1.13$ **References:**

S. K. Varshney, J.X. Zhang. US patent 09/895, 323, 2001. Heterofunctional Polyethylene glycol and Poly ethylene oxide process for their Manufacture.

