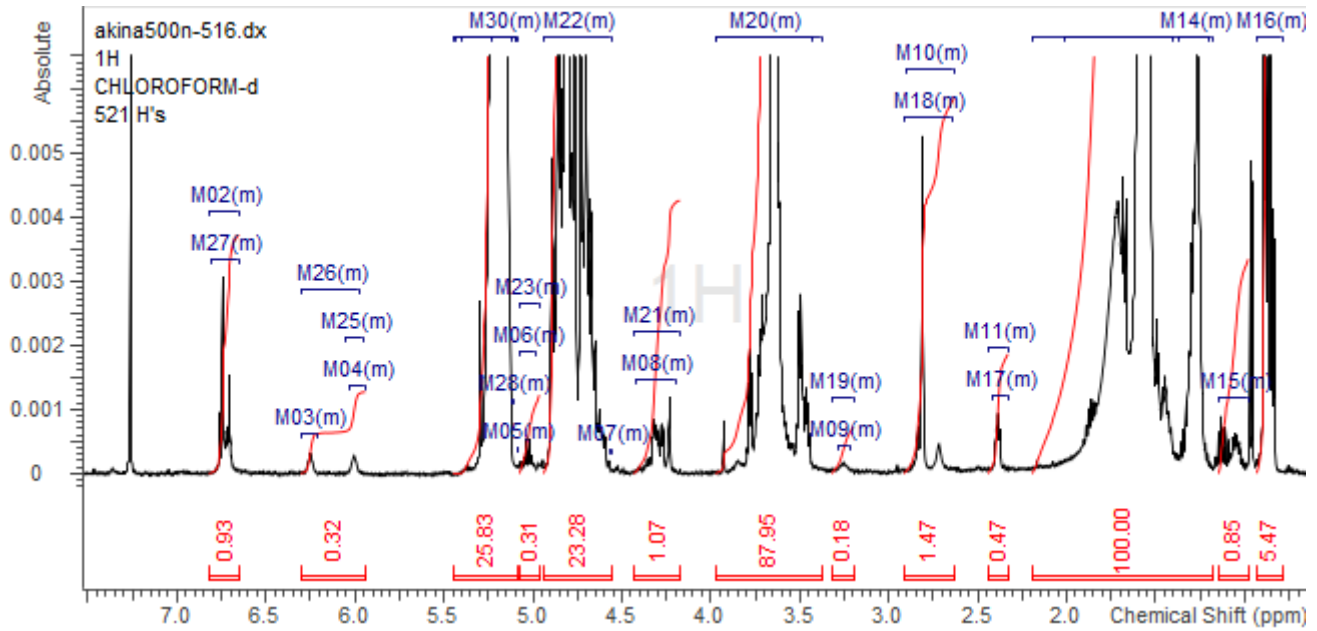


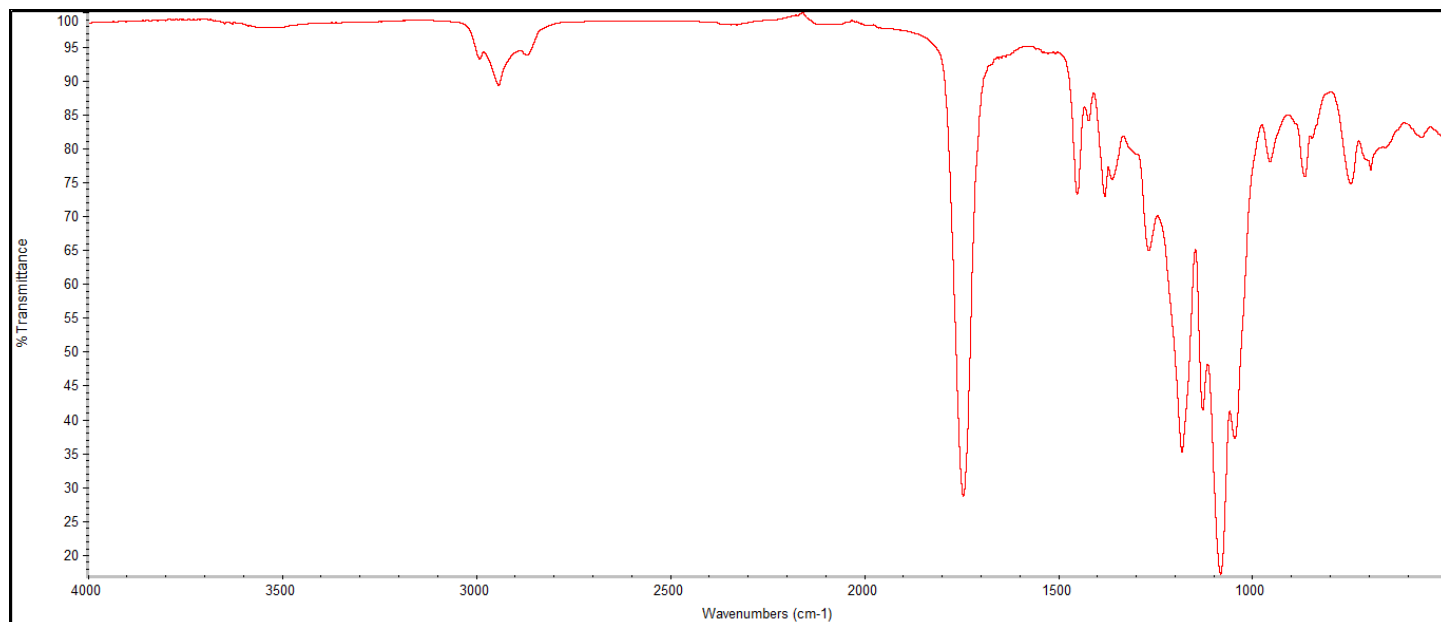
Product Name: Maleimide-Poly(ethylene glycol)-*b*-Poly(lactide-co-glycolide) diblock copolymers (70:30 LA:GA, Mw~5,000-20,000 Da) (Lot#: 240913RAI-A)

H-NMR



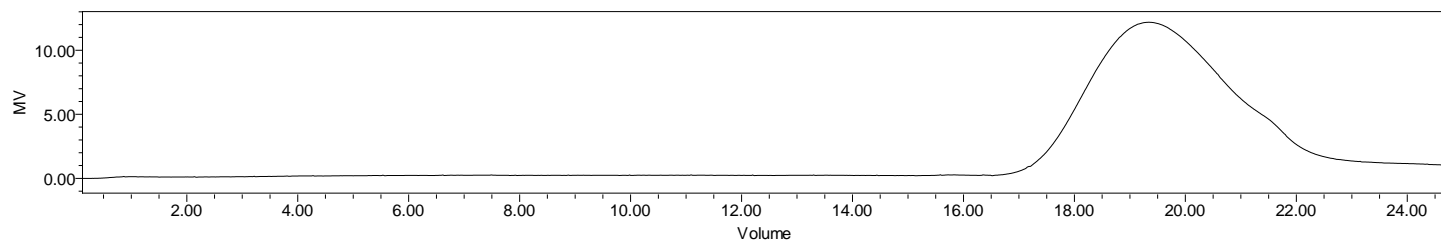
H-NMR Spectrum of copolymers in CDCl<sub>3</sub> (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG-Mal copolymer: EG\*/LA-GA =107\*/126-57 (Mn EG\*/LA:GA 4714\*/9050-3288 Da) LA:GA 73%:27% \*- from MFG data

## FTIR



FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (Thermo Scientific) and analyzed in transmission mode.

## GPC-ES



Polymer	$M_n$ (from GPC)	$M_w$ (from GPC)	PDI
mPEG-PLGA-Mal	22,739	40,986	1.8
mPEG-precursor*	4700*		

\*- from MFG data

GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

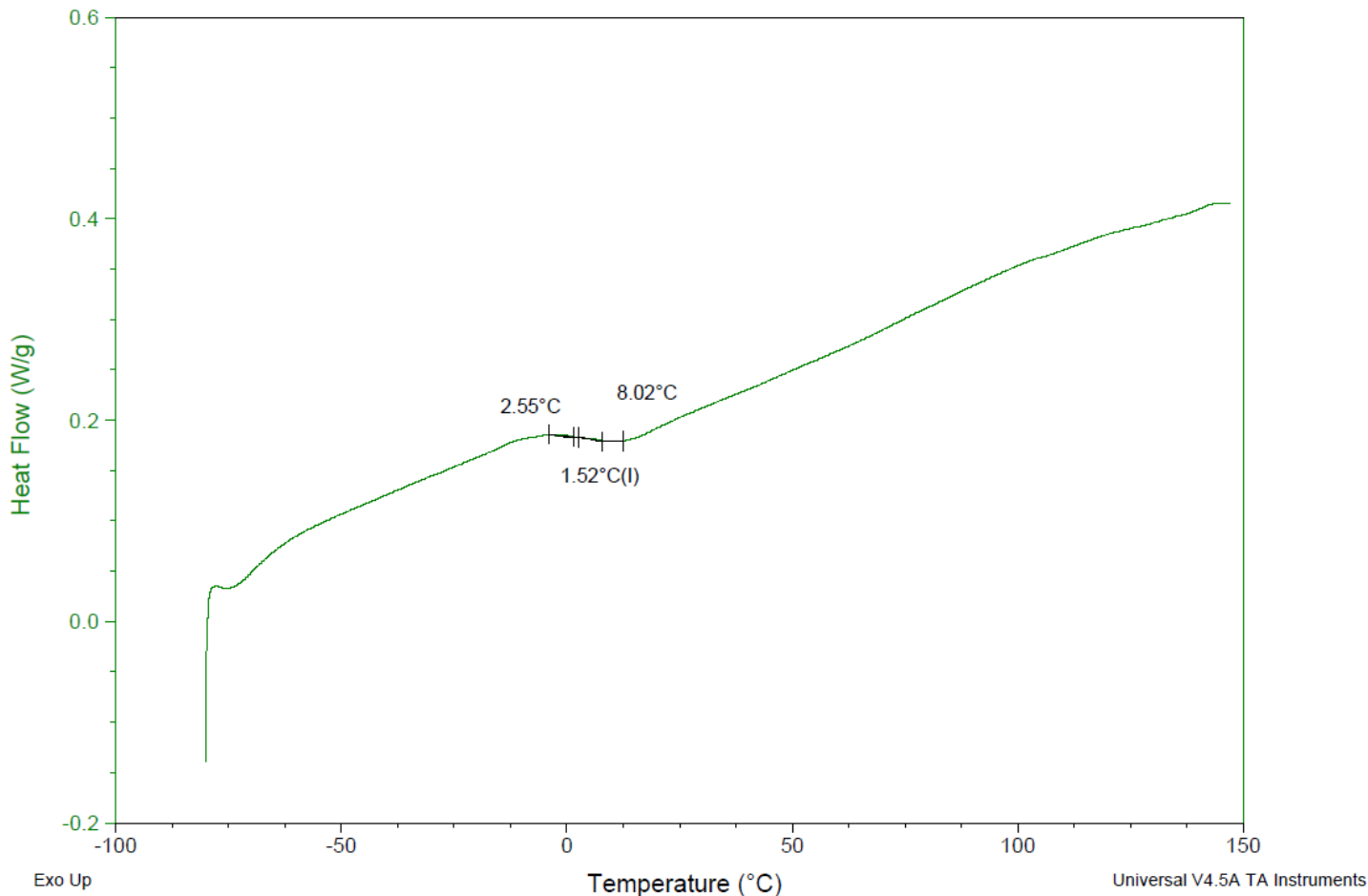
# DSC

Sample: AIXXX 240913TMT-A  
Size: 4.8000 mg  
Method: Ramp

## DSC

File: \\...COA\AIXXX 240913RAI-A DSC.002

Run Date: 18-Sep-2024 13:46  
Instrument: DSC Q2000 V24.11 Build 124



DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 1.52 °C

## IV

**Inherent Viscosity:** 0.281 dL/g (calculated from kinematic viscosity at 2% w/v Acetone on Rheosense microVISC, n=3) at 25°C.

### Structure of PLGA-PEG-Mal copolymers

