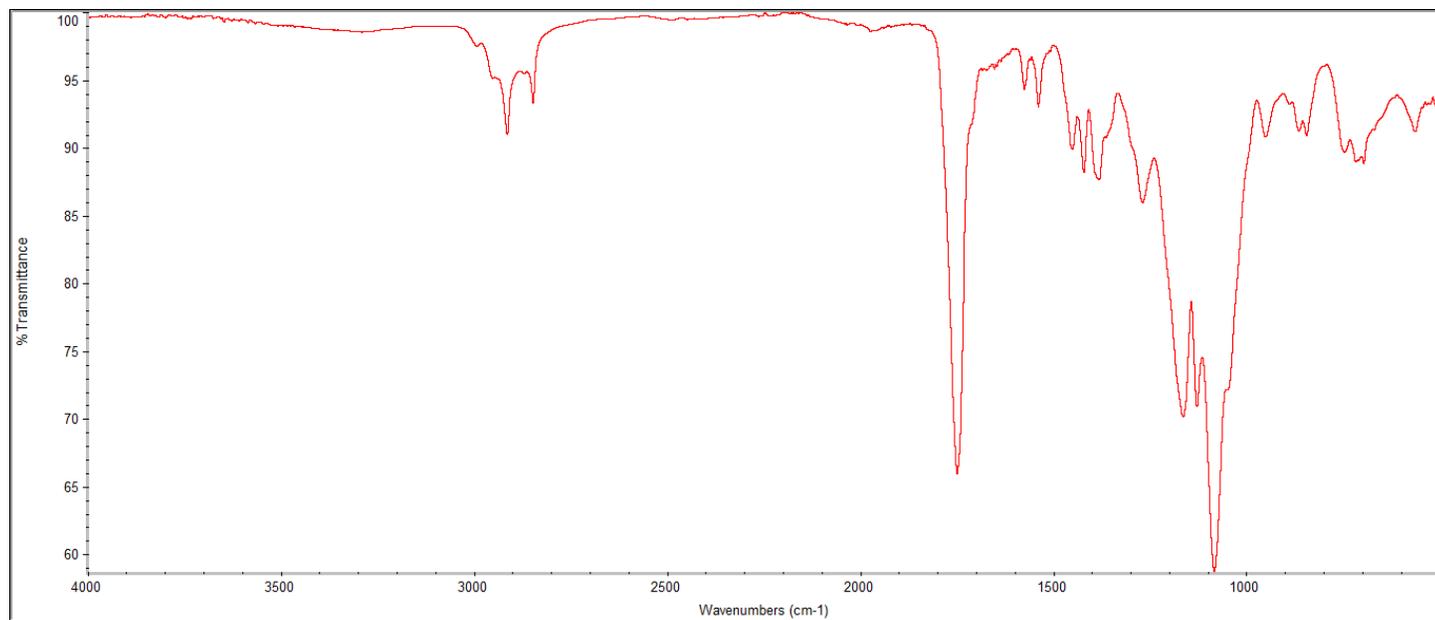
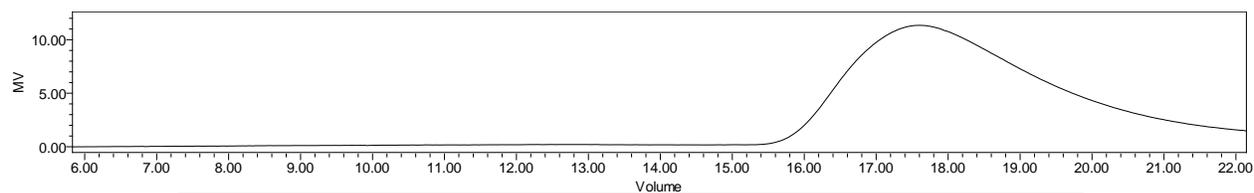


FTIR



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
PLLA-PEG-Mal	40,638	56,587	1.39
PEG-Precursor*	$M_n=4700^*$		

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. *from MFG data

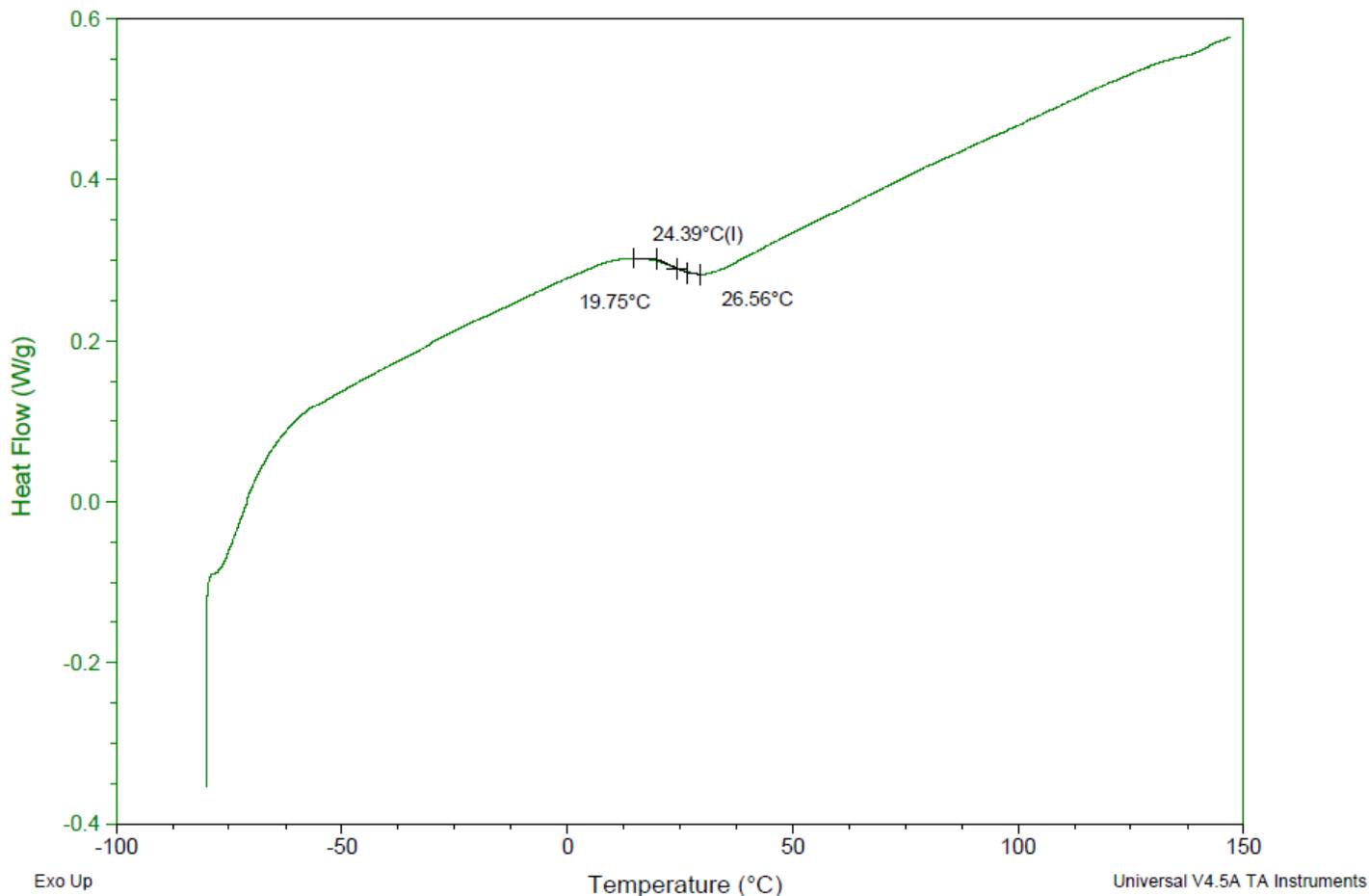
DSC

Sample: AI040 260223RAI-C
Size: 4.0000 mg
Method: Ramp

DSC

File: C:\COVA\AI040 260223RAI-C.001

Run Date: 03-Mar-2026 13:04
Instrument: DSC Q2000 V24.11 Build 124

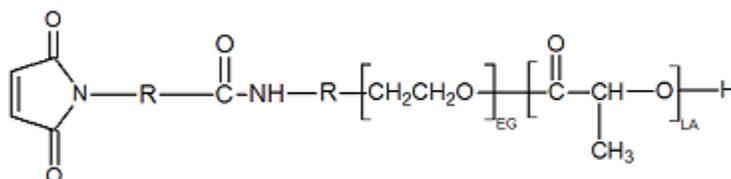


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 24.39 °C

IV

Inherent Viscosity: 0.345 ± 0.018 dL/g (calculated from kinematic viscosity at 2% w/v Acetone on Rheosense microVISC, n=3) at 25°C.

Structure of copolymers



Approved By:
Amie Tyler
Quality Manager