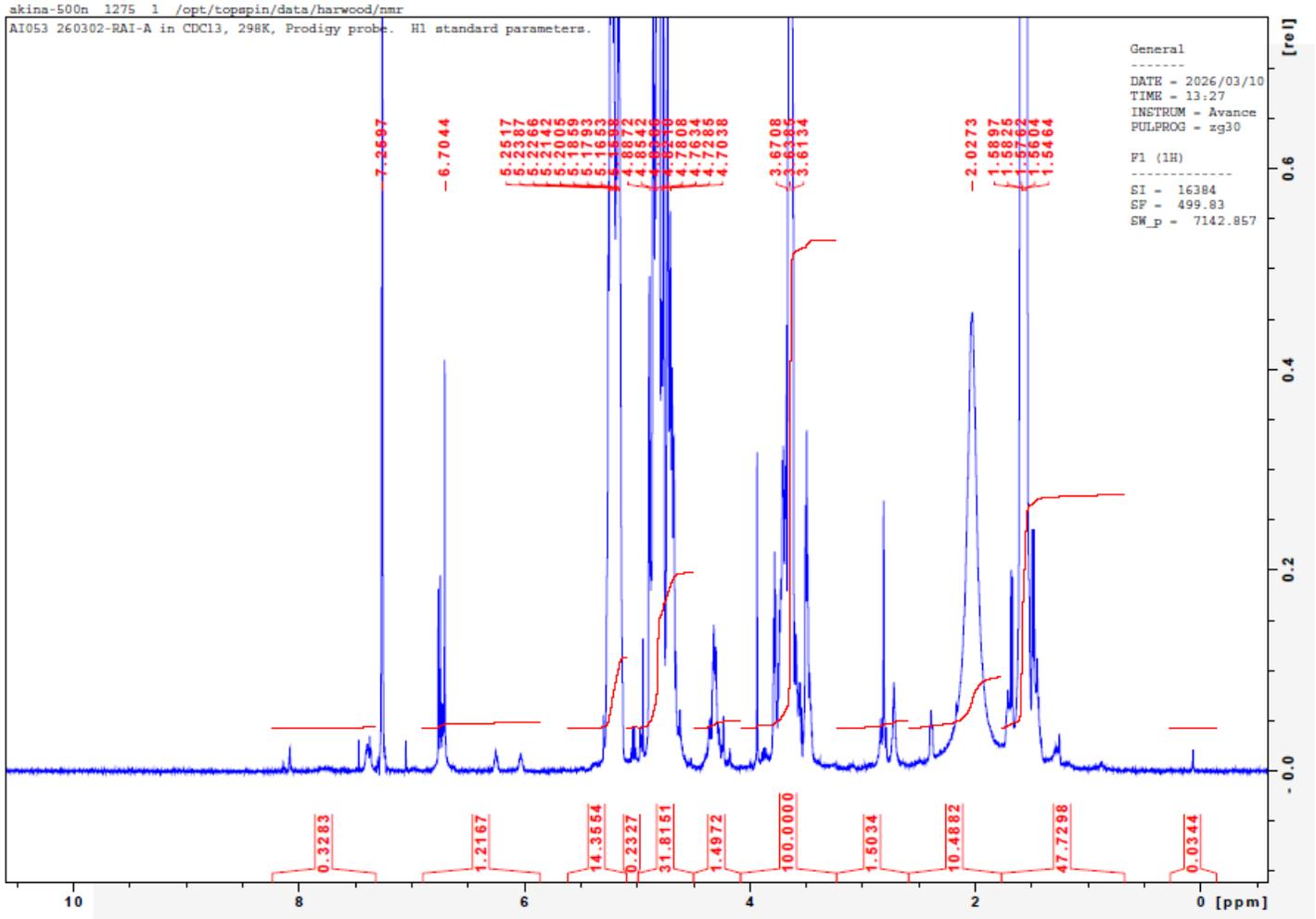


No. AI053 Certificate of Analysis

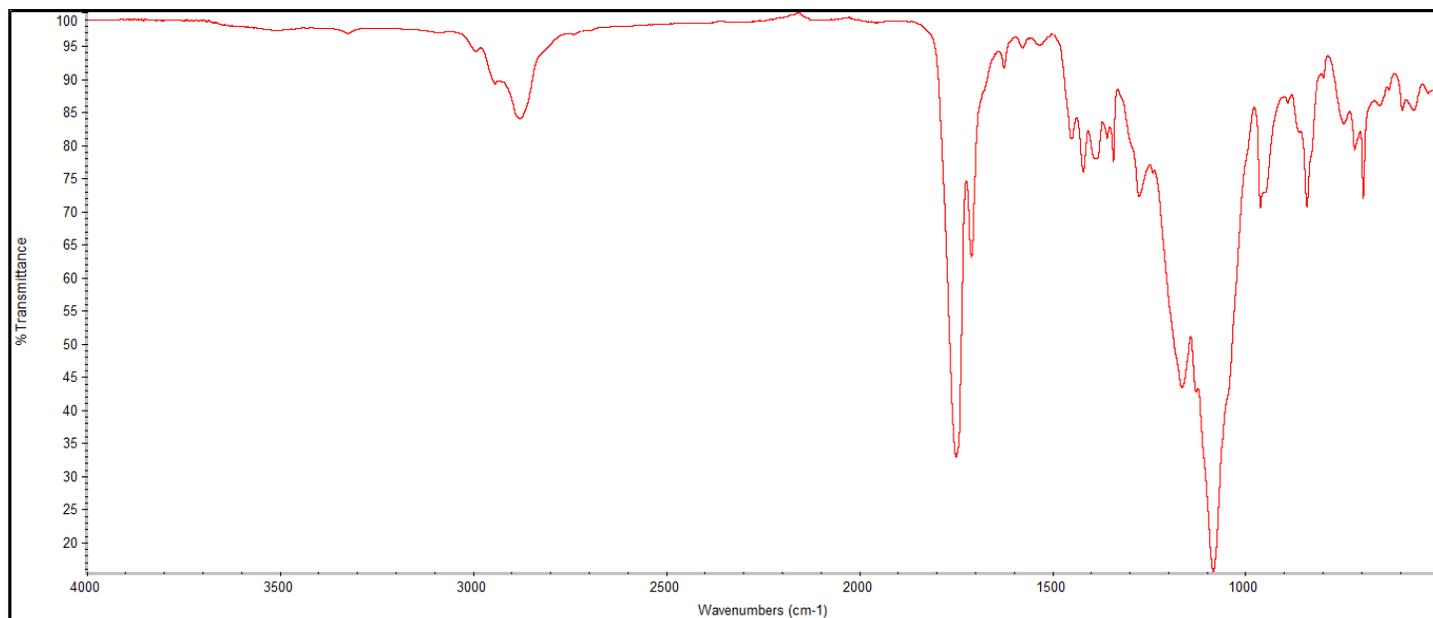
Product Name: Maleimide-Poly(ethylene glycol)-*b*-Poly(lactide-co-glycolide) diblock copolymers (50:50 LA:GA, $M_w \sim 5,000:10,000$ Da) (Lot#: 260302RAI-A)

H-NMR



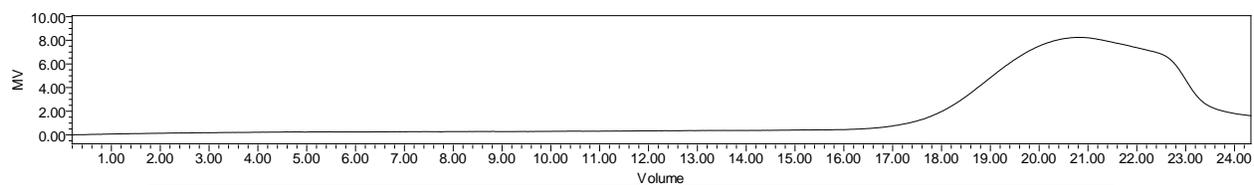
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG-Mal copolymer: EG*/LA-GA =113*/65-72 (M_n EG*/LA:GA 4978*/4672-4173 Da) LA:GA 53%:47% *from MFG data

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
PLGA-PEG-Mal	14,729	19,131	1.30
PEG-Precursor*	M _n =5000*		

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

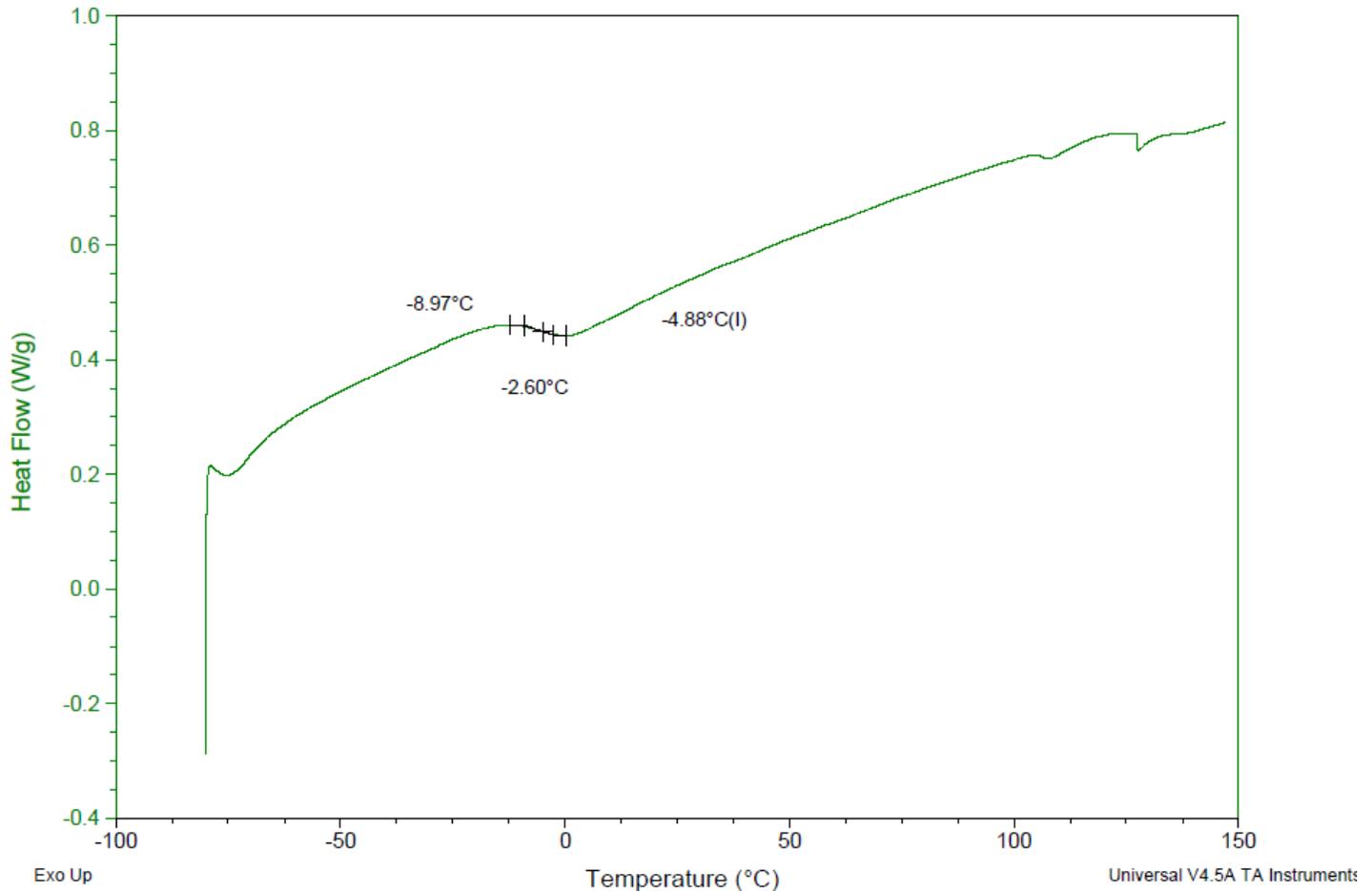
DSC

Sample: AI053 260302RAI-A
Size: 2.5000 mg
Method: Ramp

DSC

File: C:\COVA\AI053 260302RAI-A.001

Run Date: 05-Mar-2026 09:18
Instrument: DSC Q2000 V24.11 Build 124

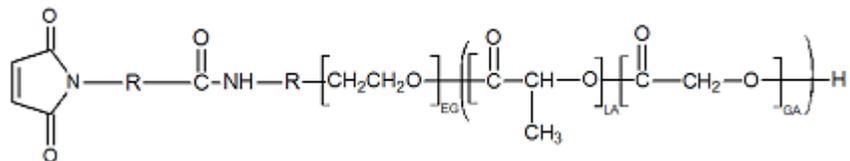


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = -2.60 °C

IV

Inherent Viscosity: 0.156 ± 0.015 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