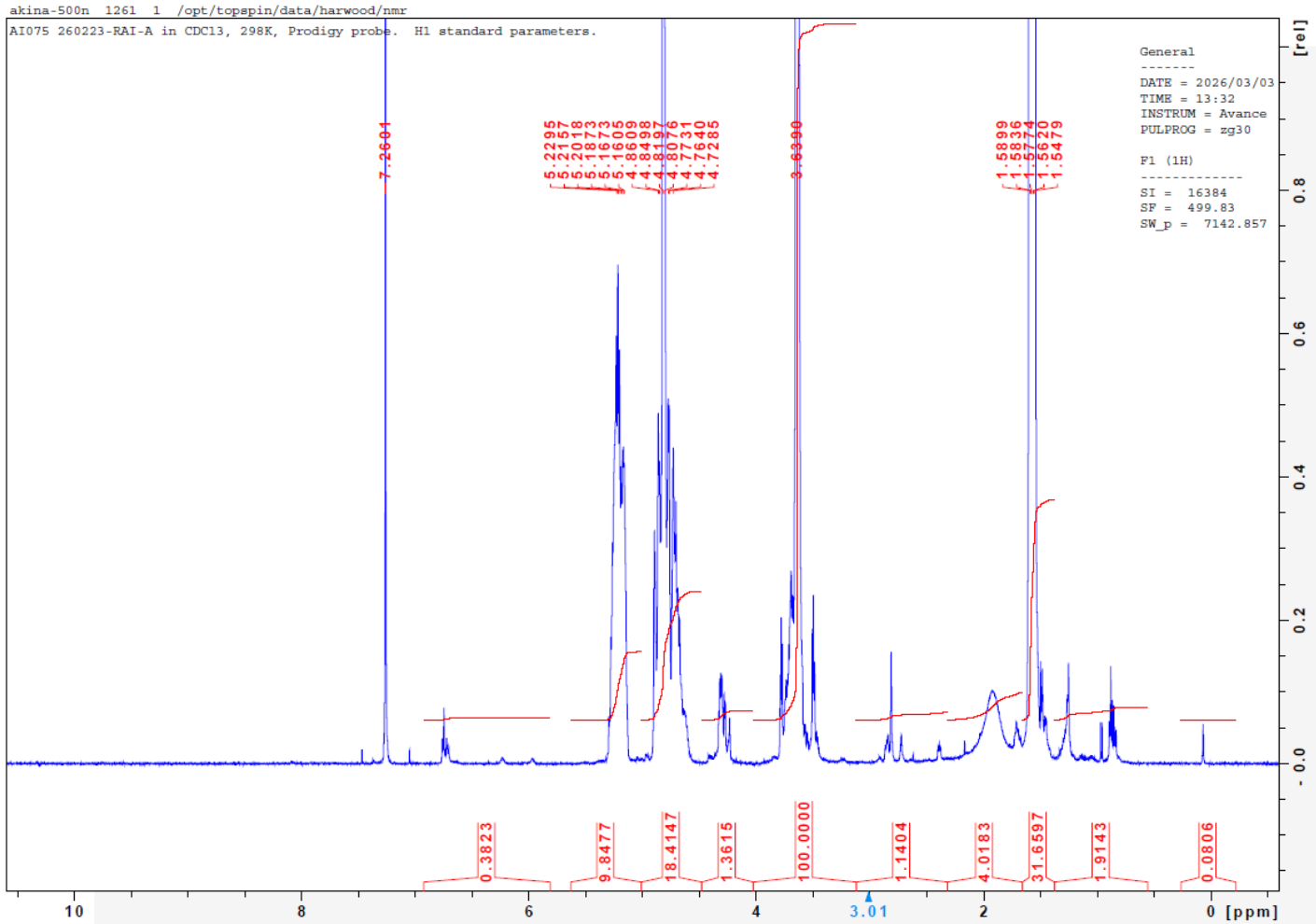


No. AI075 Certificate of Analysis

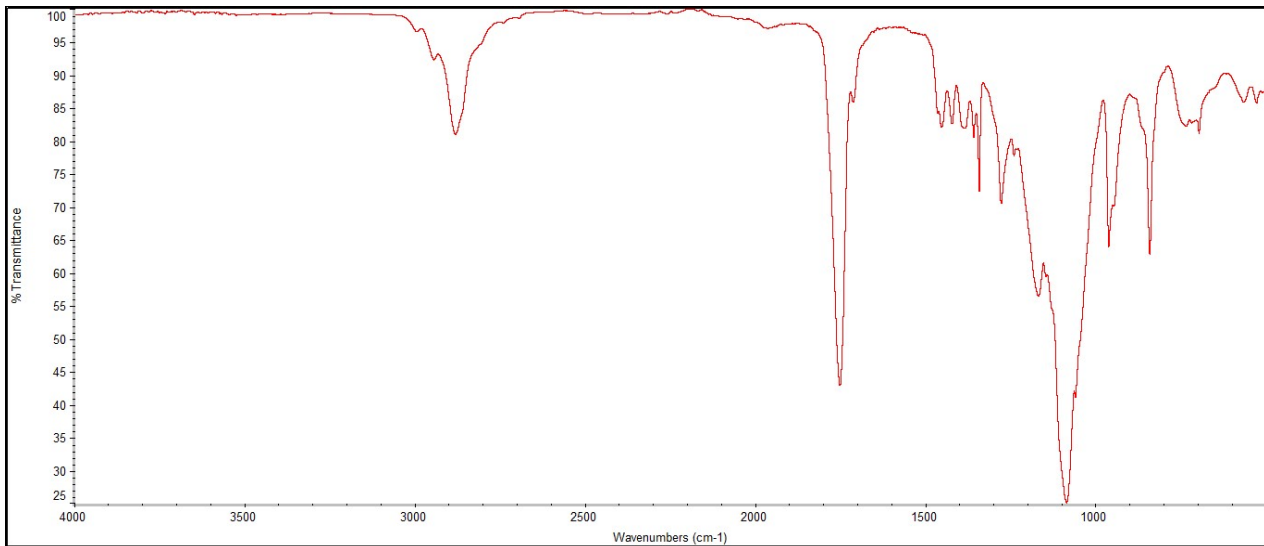
Product Name: Poly(lactic-co-glycolic)-*b*-Poly(ethylene glycol)-Maleimide Copolymers ($M_w \sim 5,000$ - $5,000$ Da) (Lot#: 260223RAI-A)

H-NMR



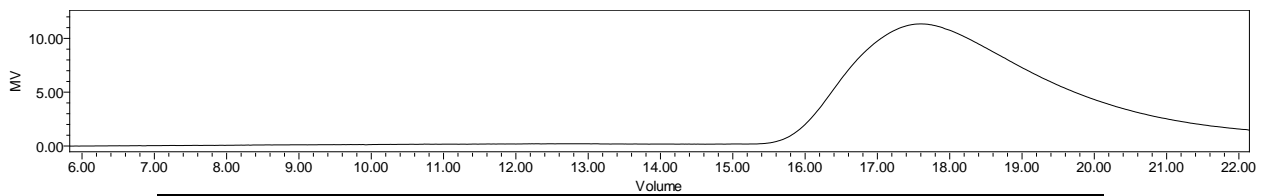
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥ 300 MHz, PINMRF) NMR of PLGA-PEG-Mal copolymer: EG*/LA-GA =119/47-44 (Mn EG*/ LA:GA 5242*/3375:2544 Da) *from MFG data

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	23,063	29,399	1.27
PEG-Precursor*	M _n =5258*		

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

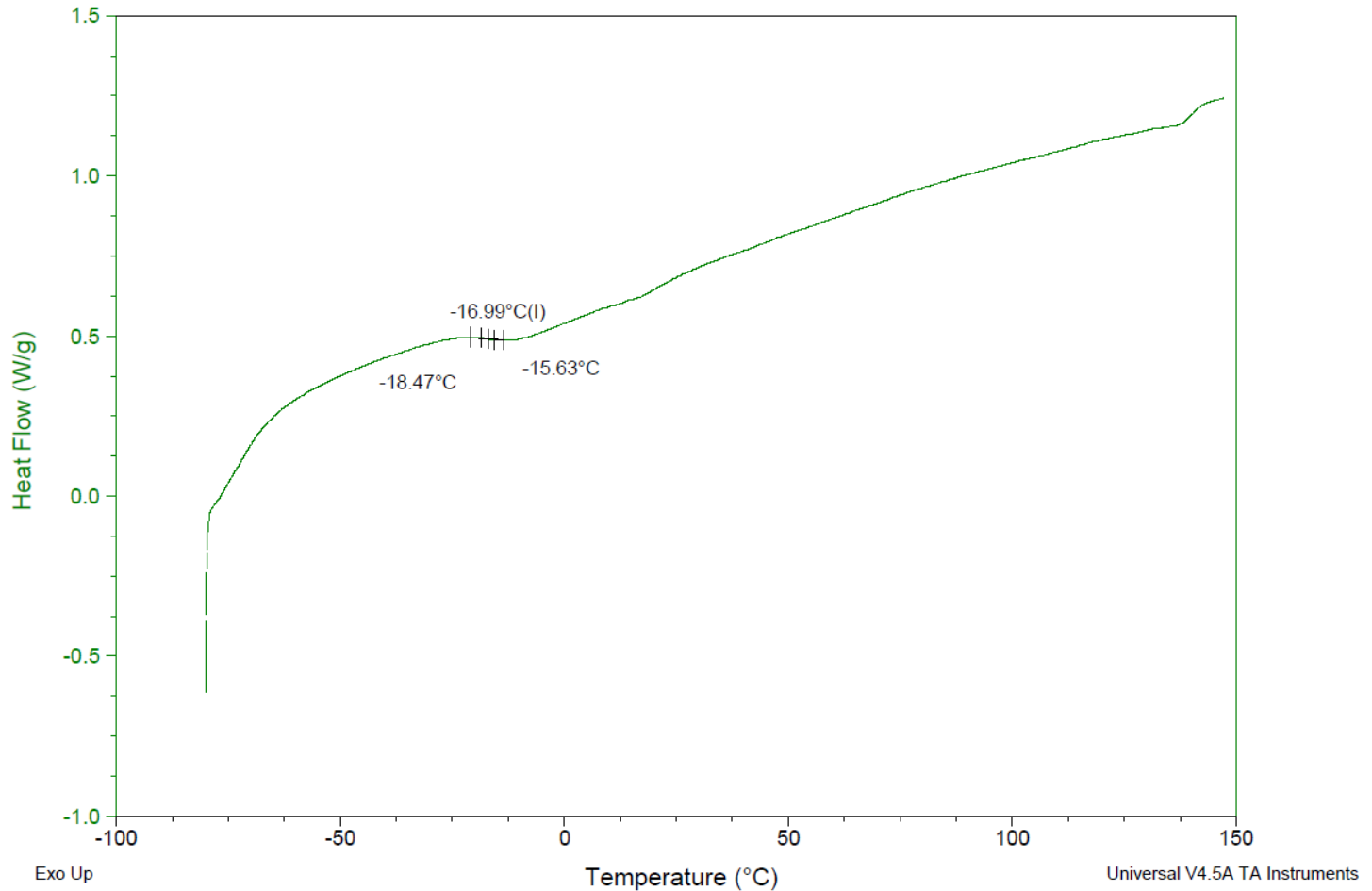
Sample: AI075 260223RAI-A
Size: 1.5000 mg
Method: Ramp

DSC

File: C:\...ICOA\AI075 260223RAI-A.001

Run Date: 03-Mar-2026 11:11

Instrument: DSC Q2000 V24.11 Build 124

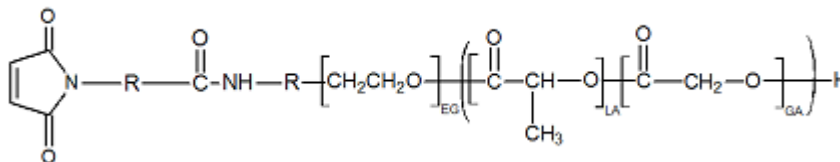


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibration 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = -16.99 °C

IV

Inherent Viscosity: 0.166 ± 0.014 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