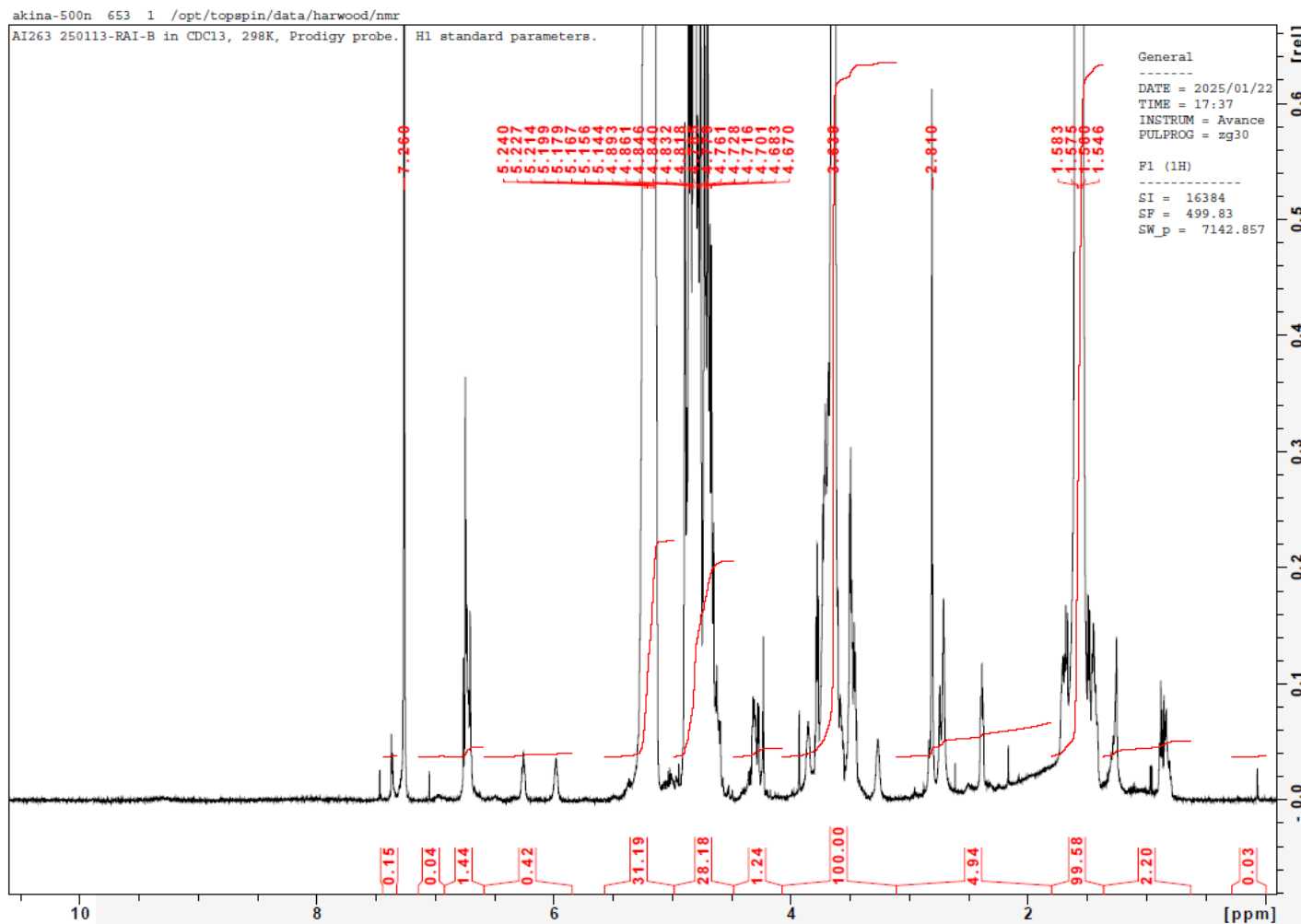


No. AI263 Certificate of Analysis

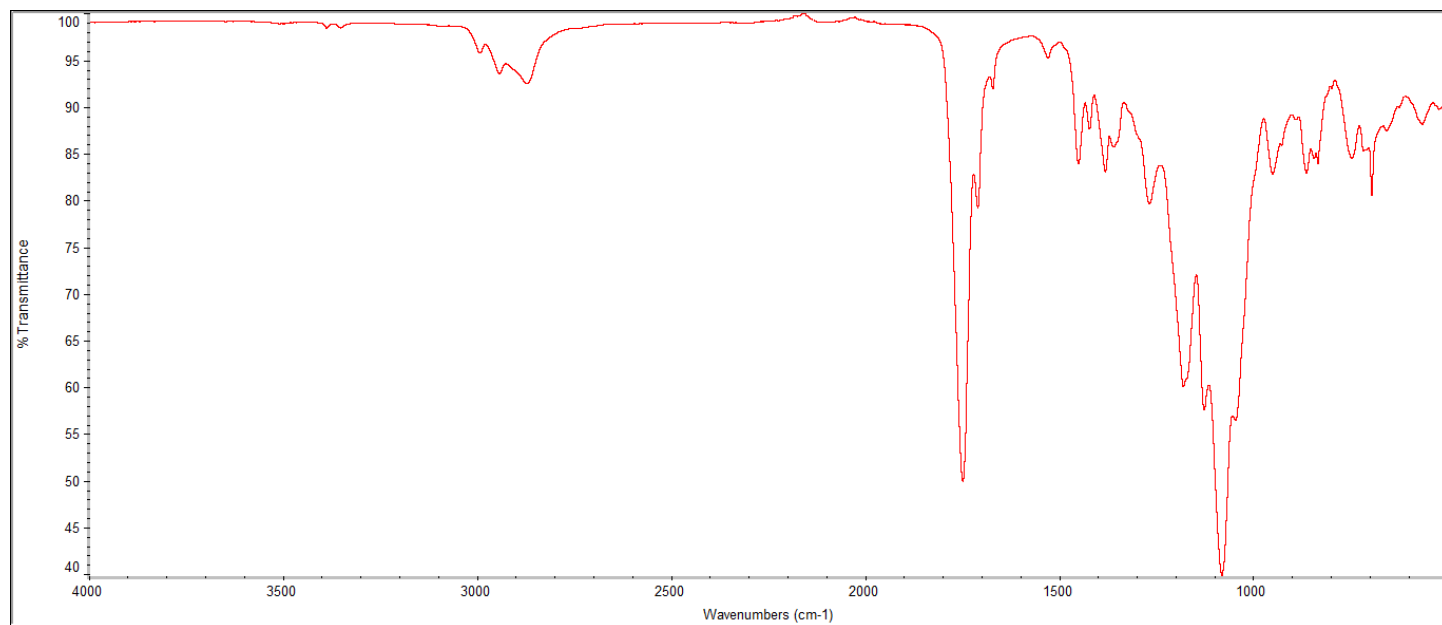
Product Name: Maleimide-Poly(ethylene glycol)-*b*-Poly(lactide-co-glycolide)
diblock copolymers (70:30 LA:GA, Mw~5,000-20,000 Da) (Lot#: 250113RAI-B)

H-NMR



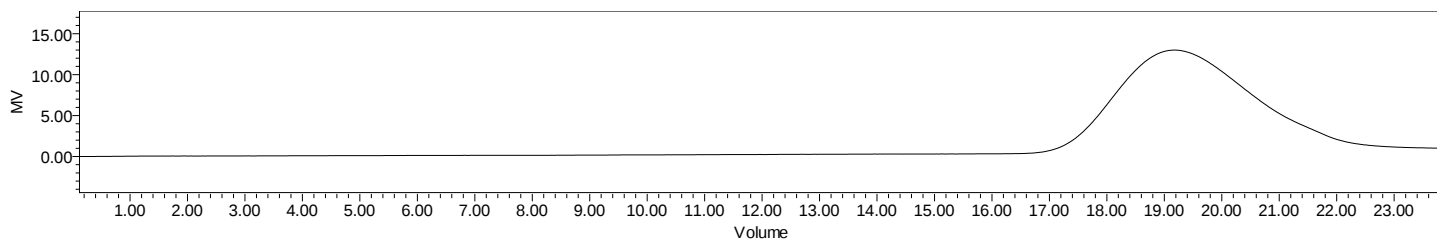
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of Mal-PEG-PLGA copolymer: EG*/LA-GA =107*/133:60 (Mn EG*/LA:GA 4717*/9612:3500 Da) LA:GA 73%:27% *from MFG data

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
Mal-PEG-PLGA	26,267	45,358	1.73
PEG-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.

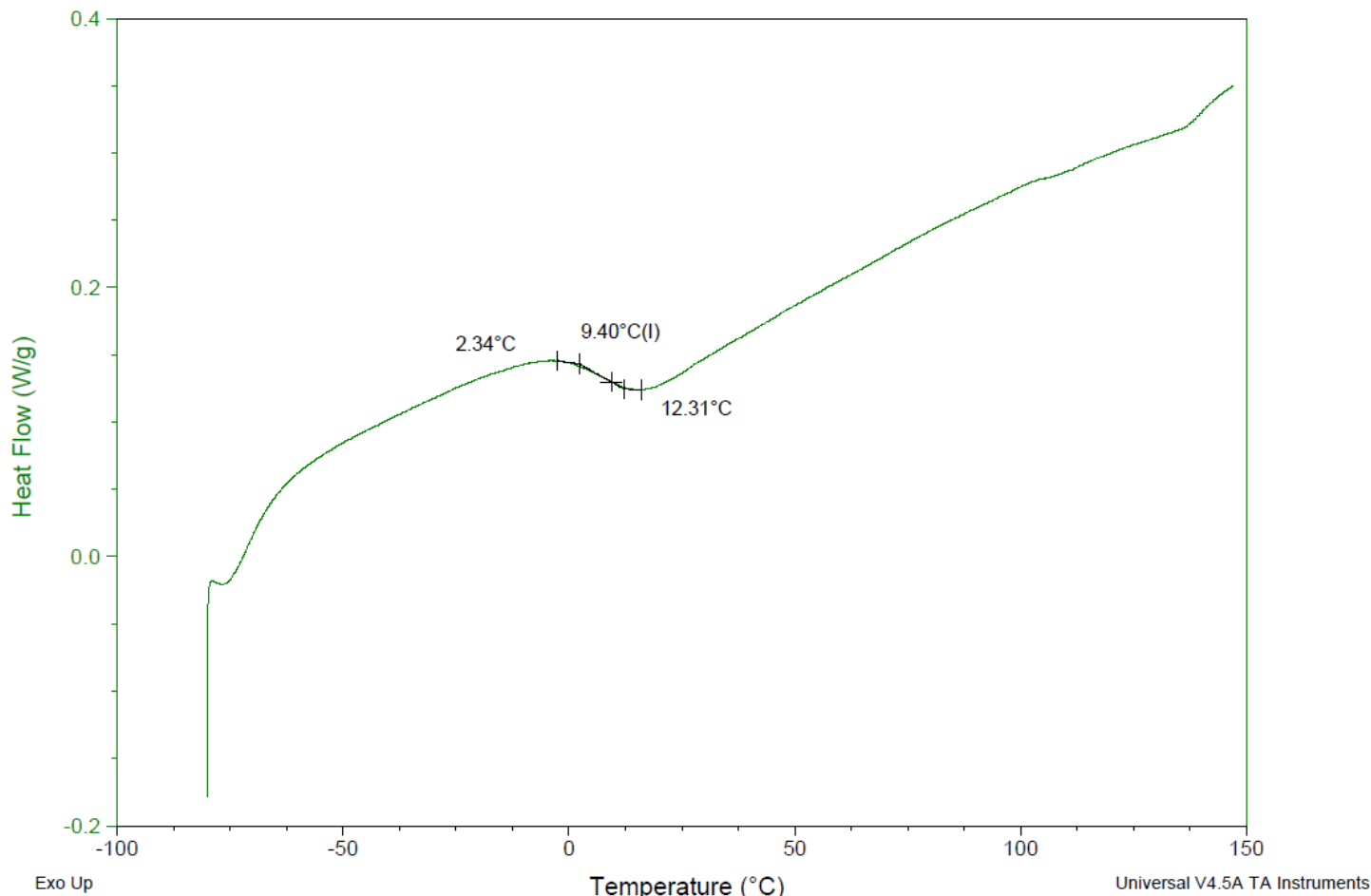
DSC

Sample: AI263 250113RAI-B
Size: 4.7000 mg
Method: Glass Transition-simple

DSC

File: C:\COA\AI263 250113RAI-B DSC.002

Run Date: 23-Jan-2025 14:36
Instrument: DSC Q2000 V24.11 Build 124

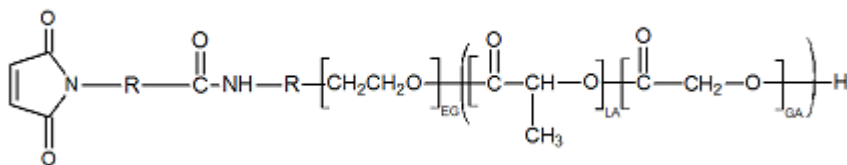


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibration 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 9.40 °C

IV

Inherent Viscosity: 0.256 ± 0.016 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