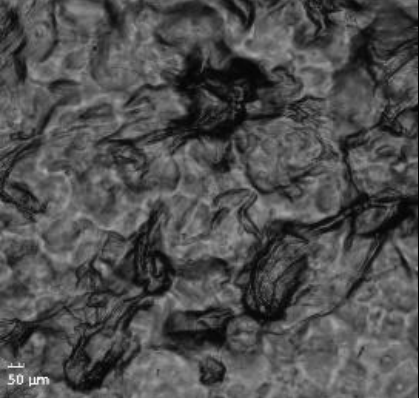
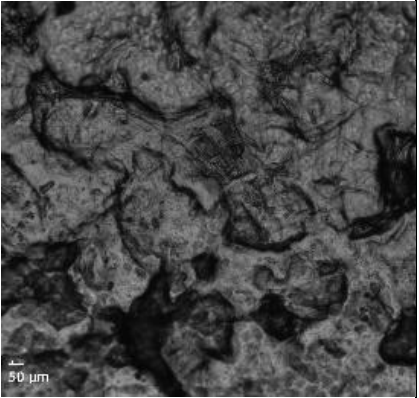
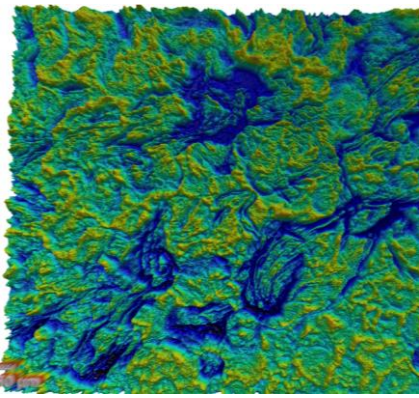
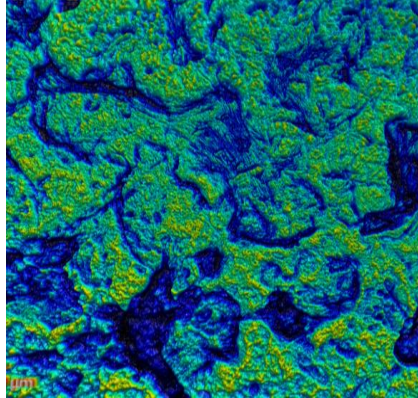
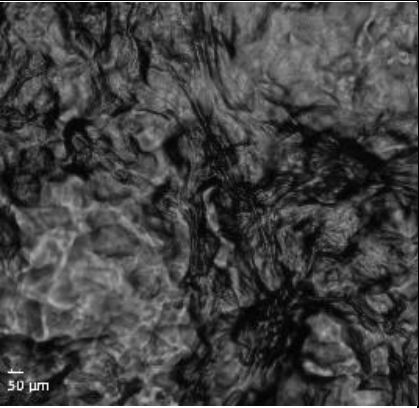
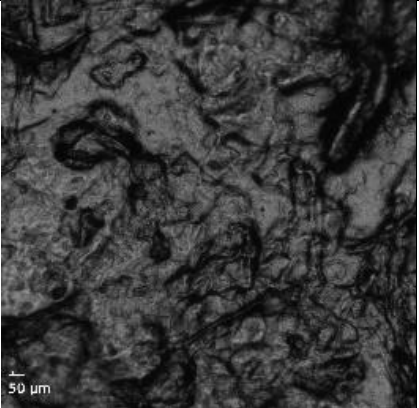
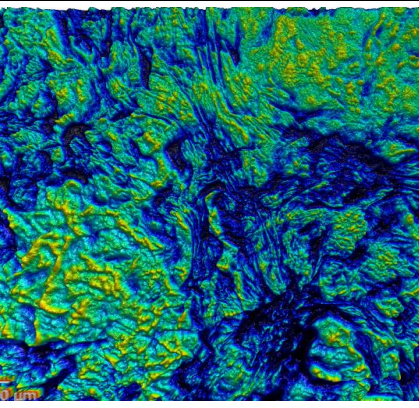
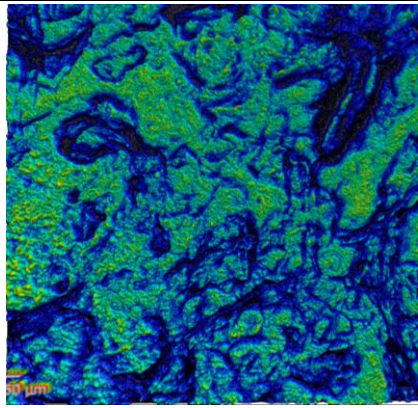
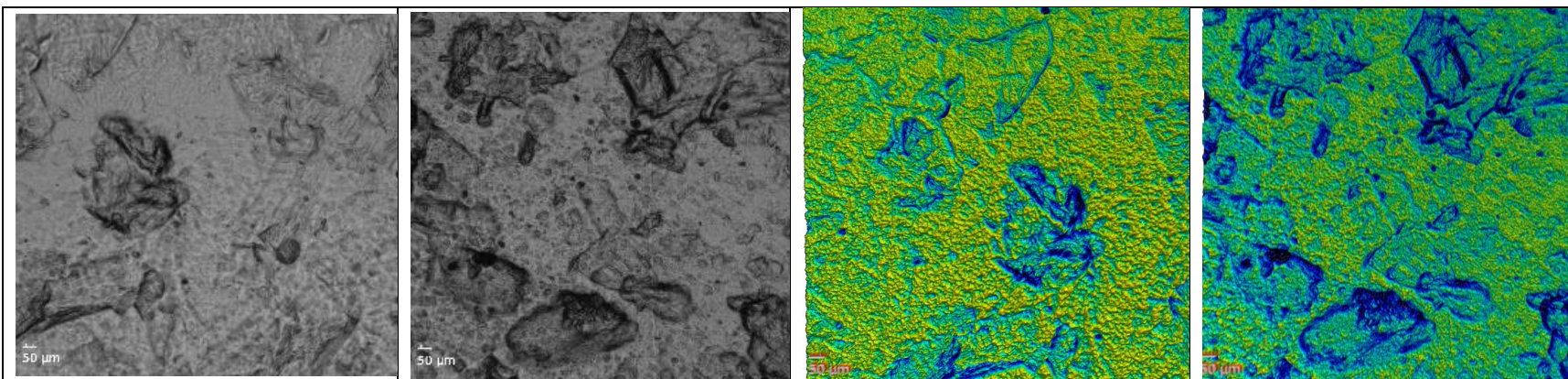
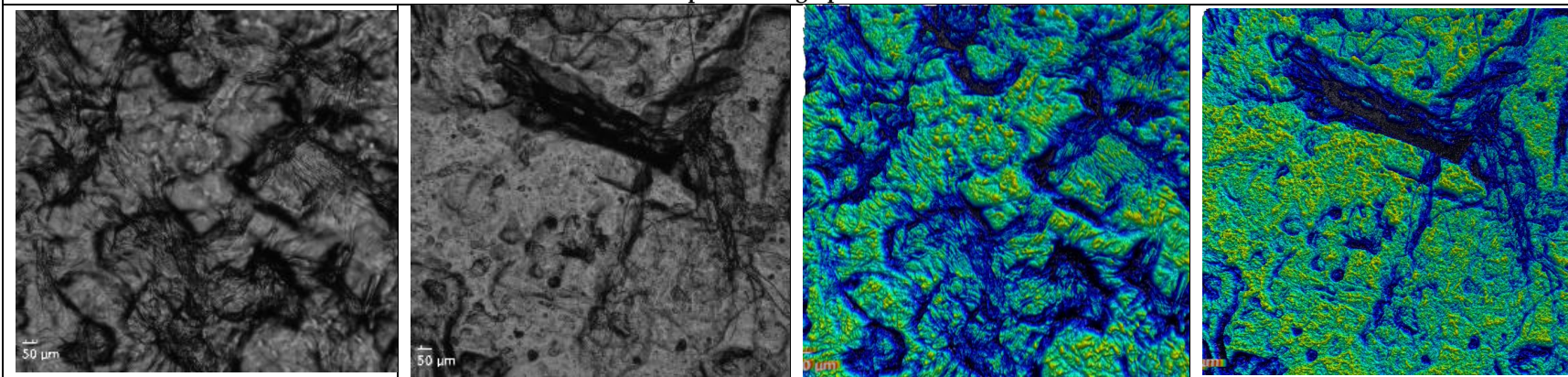


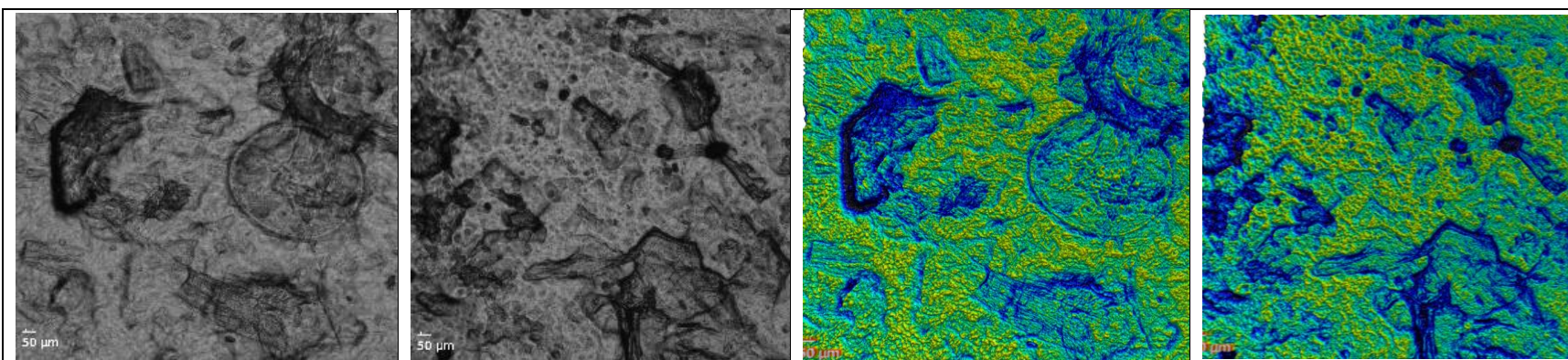
Microscope image <i>t0</i>	Microscope image <i>t1</i>	Microtopography <i>t0</i>	Microtopography <i>t1</i>
Sample 1 (7.5% lemon EO)			
 Microscope image of Sample 1 at <i>t0</i> . The surface shows a rough, granular texture with some darker, irregular patches. A scale bar in the bottom left corner indicates 50 μm.	 Microscope image of Sample 1 at <i>t1</i> . The surface texture is similar to <i>t0</i> , but the darker patches appear more pronounced. A scale bar in the bottom left corner indicates 50 μm.	 Microtopography map of Sample 1 at <i>t0</i> . The color scale ranges from blue (low) to yellow (high). The surface shows a complex, irregular topography with many small peaks and valleys. A scale bar in the bottom left corner indicates 50 μm.	 Microtopography map of Sample 1 at <i>t1</i> . The color scale ranges from blue (low) to yellow (high). The surface topography is similar to <i>t0</i> , but the peaks appear slightly more pronounced. A scale bar in the bottom left corner indicates 50 μm.
Sample 2 (15% lemon EO)			
 Microscope image of Sample 2 at <i>t0</i> . The surface shows a rough, granular texture with some darker, irregular patches. A scale bar in the bottom left corner indicates 50 μm.	 Microscope image of Sample 2 at <i>t1</i> . The surface texture is similar to <i>t0</i> , but the darker patches appear more pronounced. A scale bar in the bottom left corner indicates 50 μm.	 Microtopography map of Sample 2 at <i>t0</i> . The color scale ranges from blue (low) to yellow (high). The surface shows a complex, irregular topography with many small peaks and valleys. A scale bar in the bottom left corner indicates 50 μm.	 Microtopography map of Sample 2 at <i>t1</i> . The color scale ranges from blue (low) to yellow (high). The surface topography is similar to <i>t0</i> , but the peaks appear slightly more pronounced. A scale bar in the bottom left corner indicates 50 μm.
Sample 3 (7.5% grapefruit EO)			



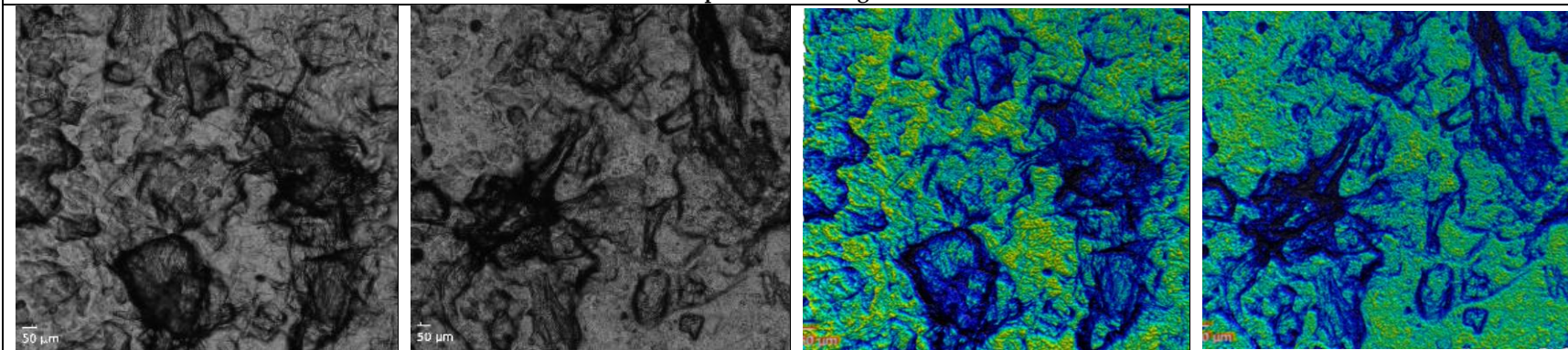
Sample 4 (15% grapefruit EO)



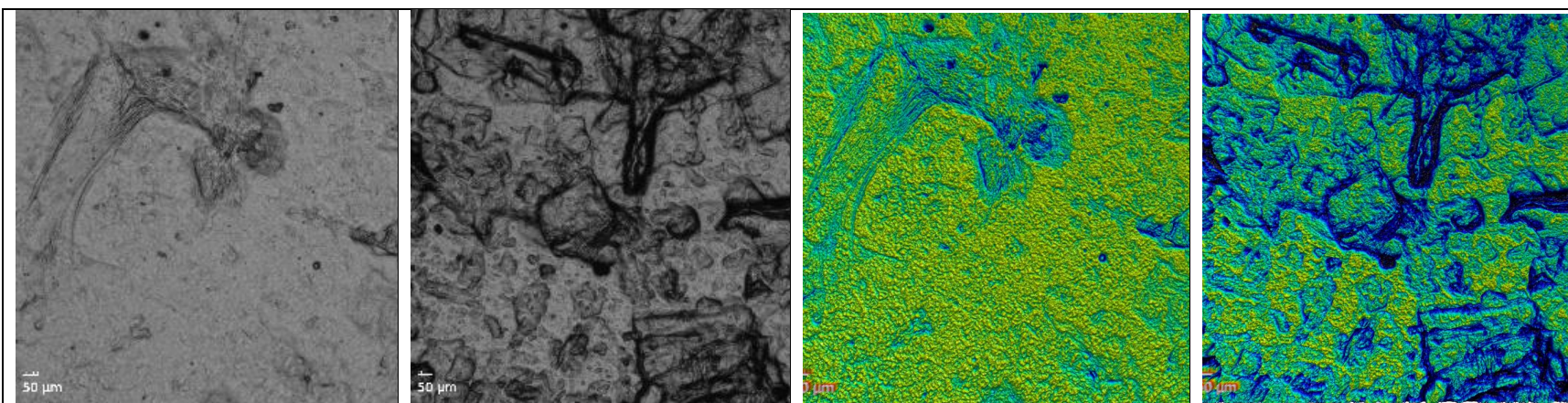
Sample 5 (7.5% orange EO)



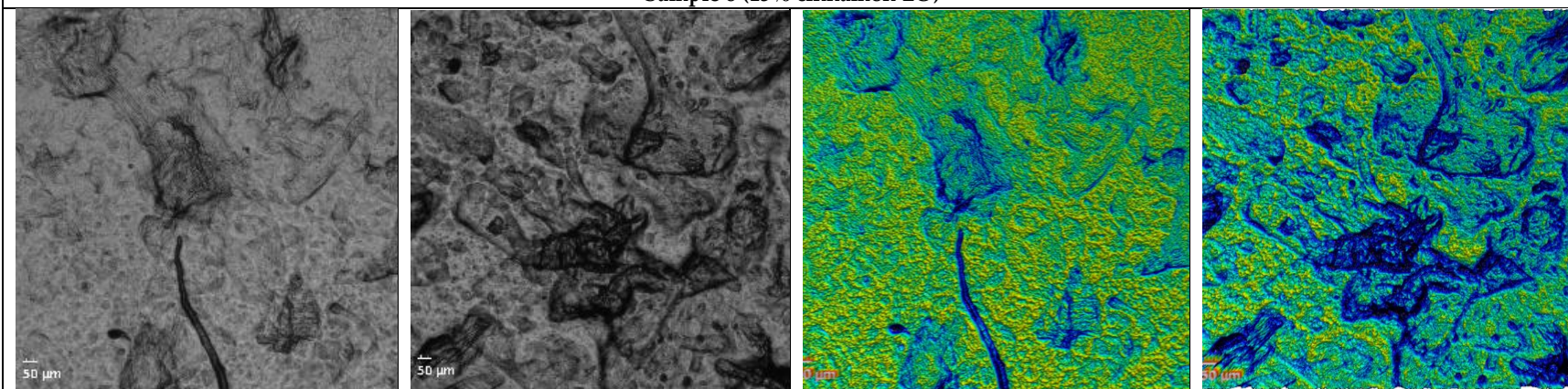
Sample 6 (15% orange EO)



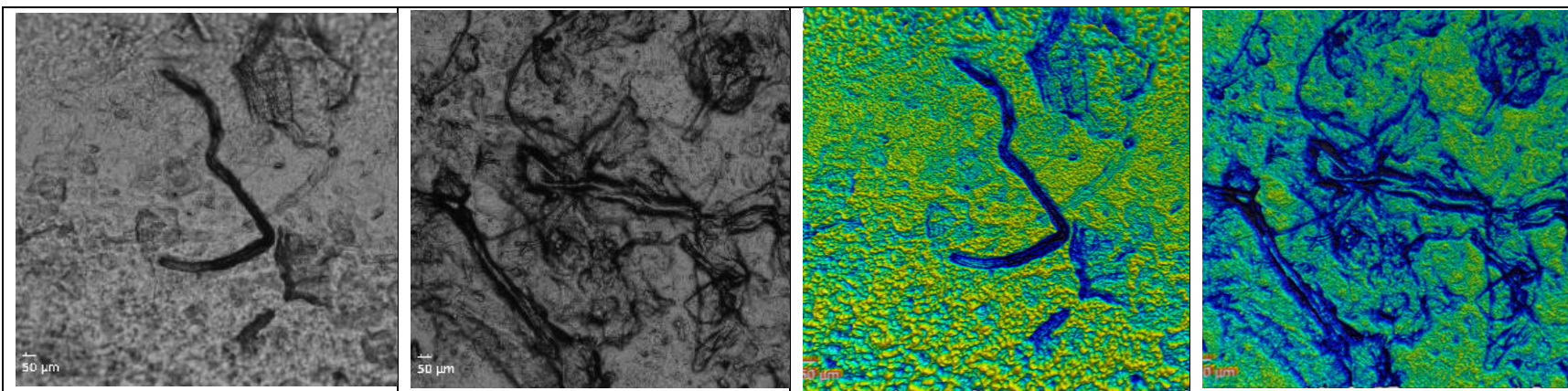
Sample 7 (7.5% cinnamon EO)



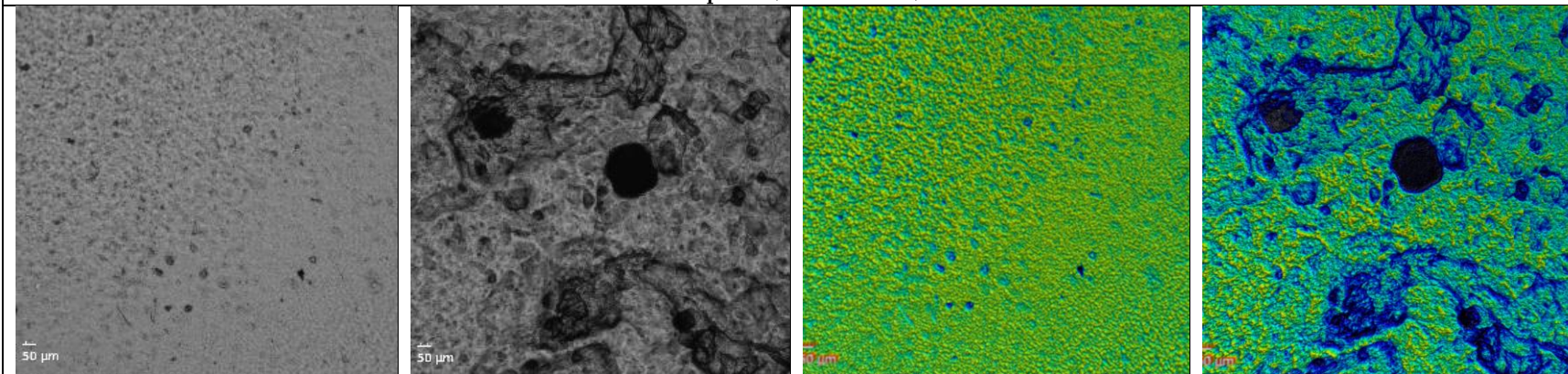
Sample 8 (15% cinnamon EO)



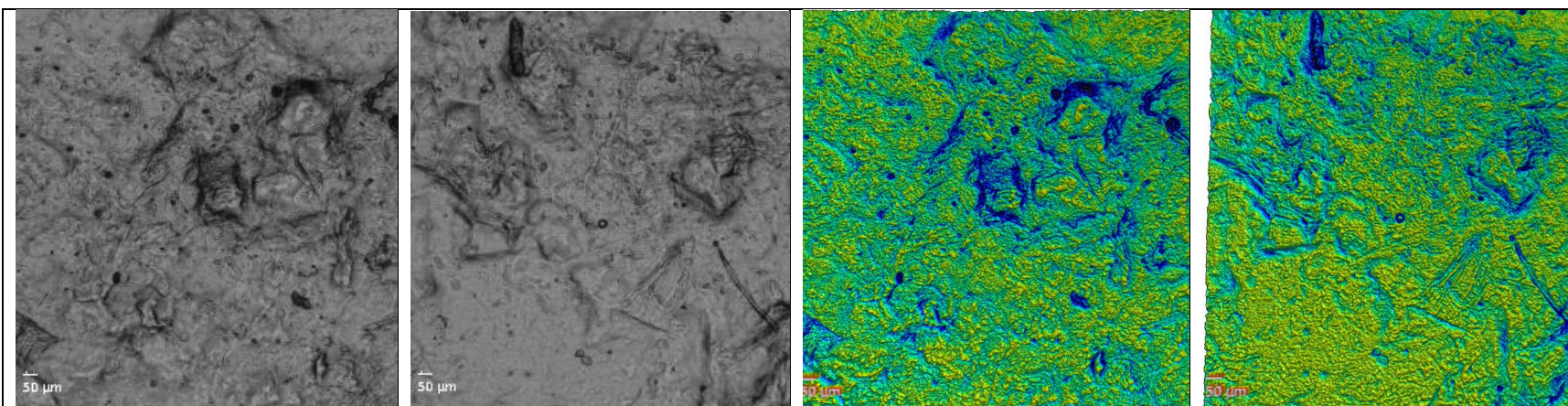
Sample 9 (7.5% clove EO)



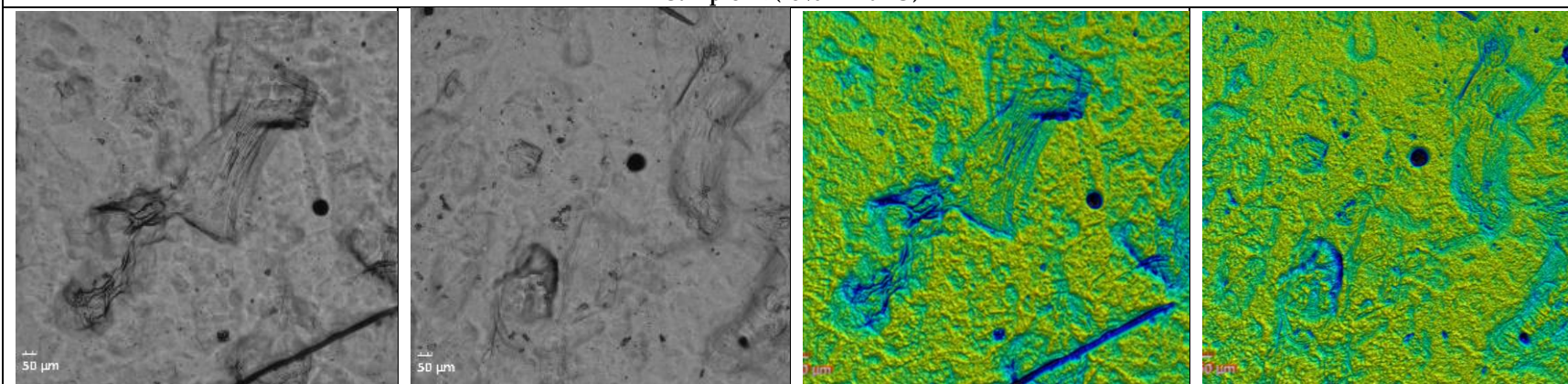
Sample 10 (15% clove EO)



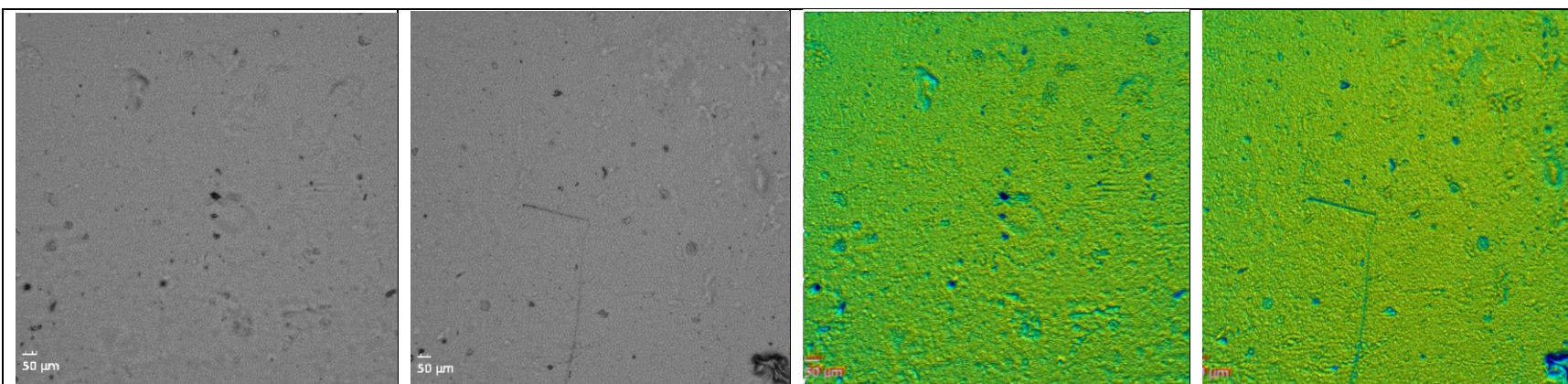
Sample 11 (7.5% mint EO)



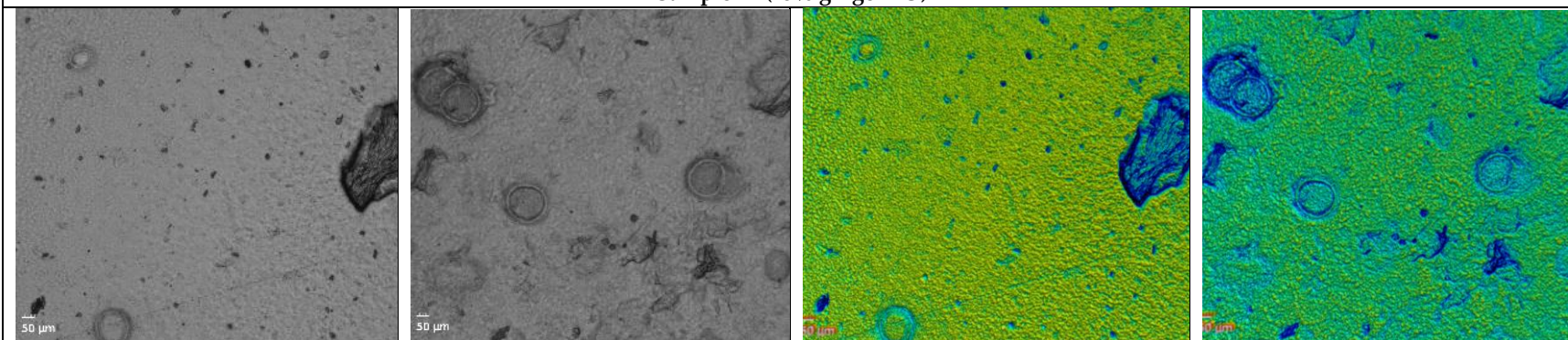
Sample 12 (15% mint EO)



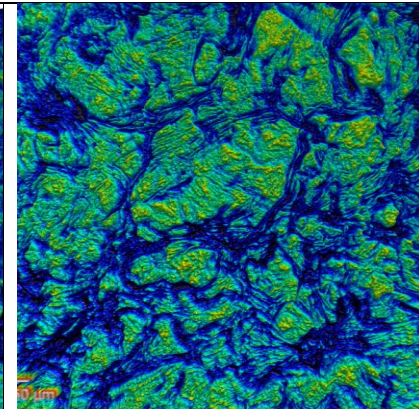
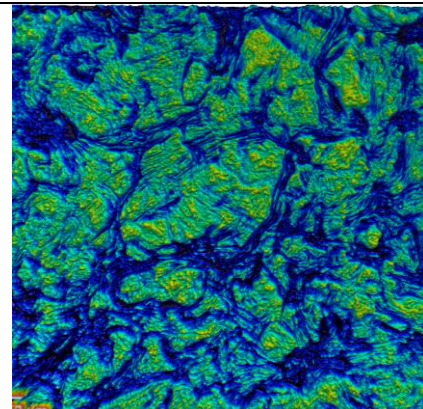
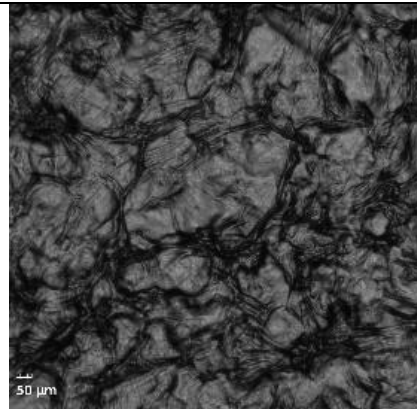
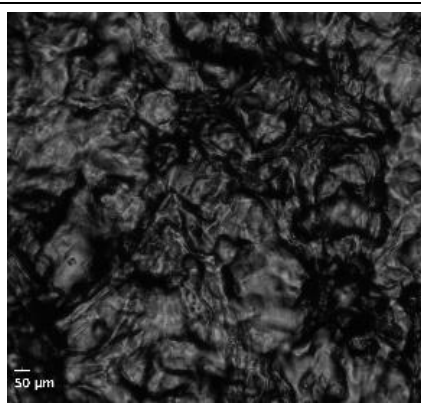
Sample 13 (7.5% ginger EO)



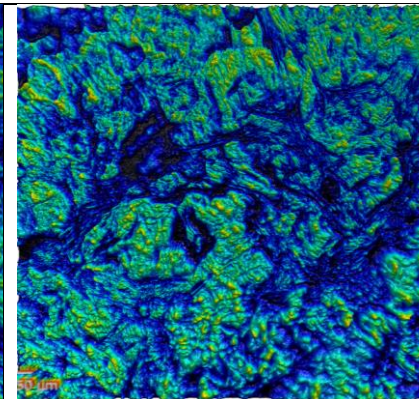
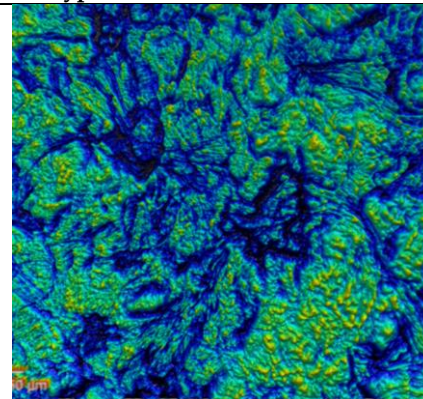
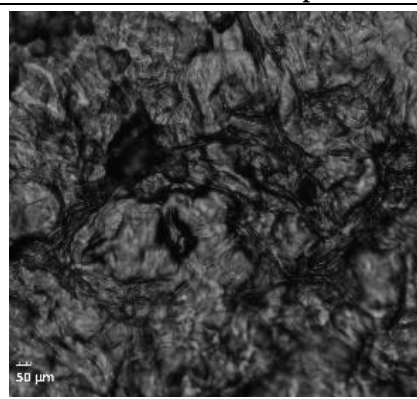
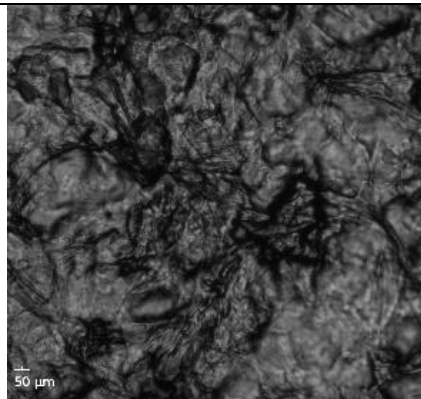
Sample 14 (15% ginger EO)



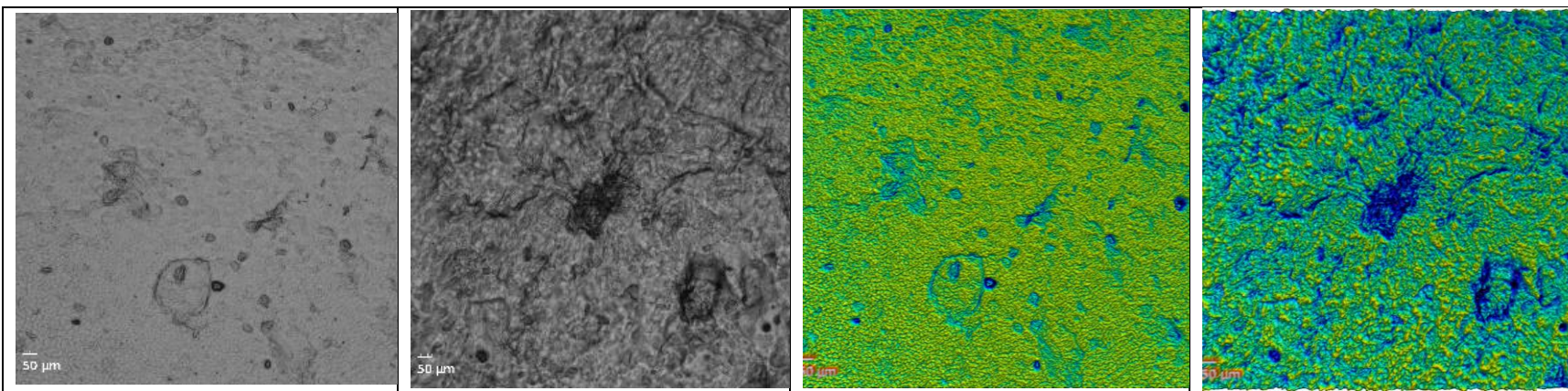
Sample 15 (7.5% eucalyptus EO)



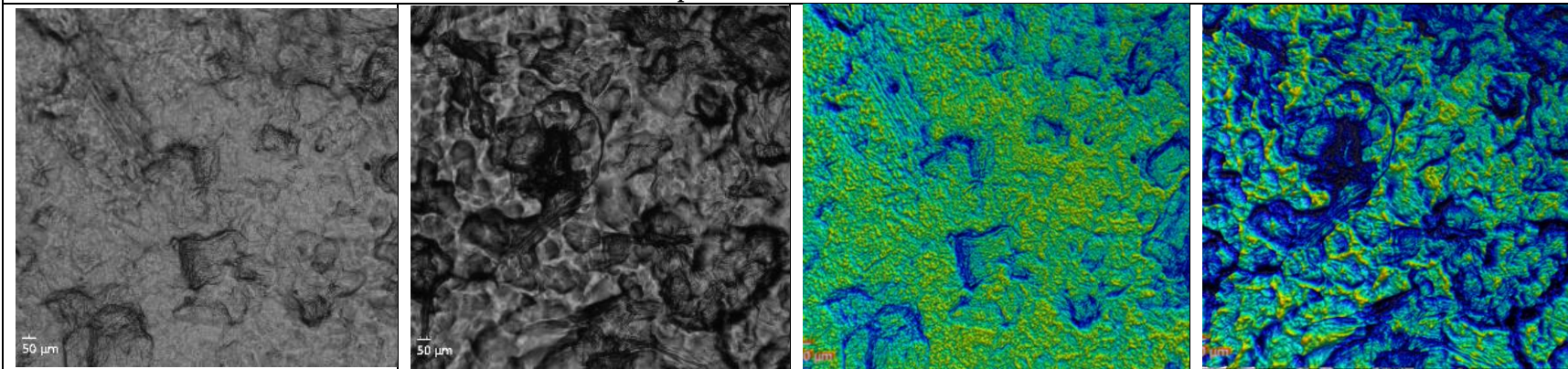
Sample 16 (15% eucalyptus EO)



Sample 17 (7.5% chamomile EO)



Sample 18 (15% chamomile EO)



Sample 19 (control, no EO)

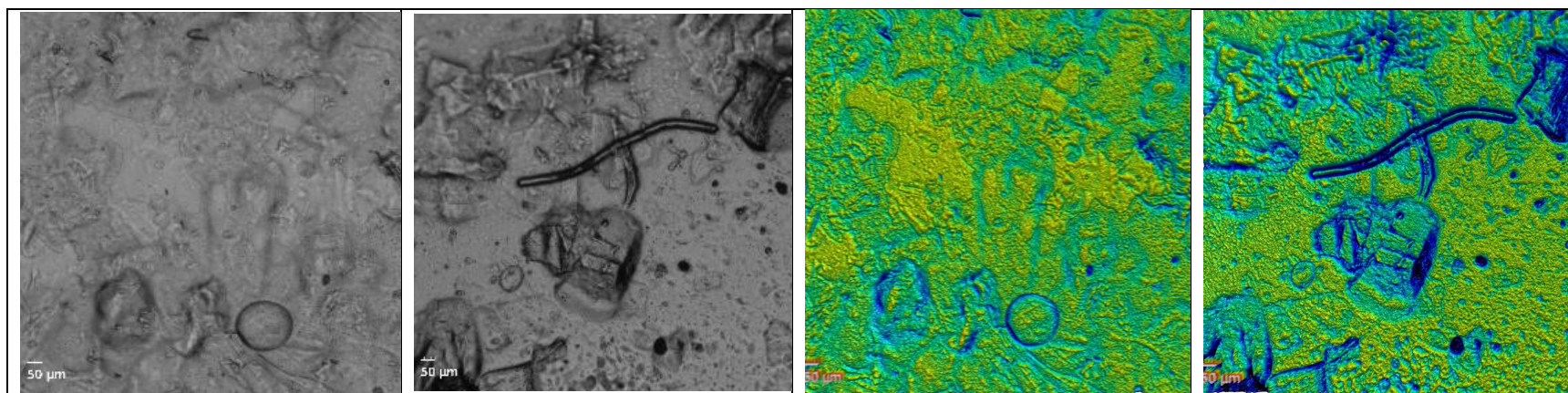


Figure S1. Microstructure images of tested films, obtained at initial time (t_0) and after one year storage (t_1).

Table S1. Essential oils' chemical composition, according to the manufacturer data sheet.

<i>Essential oil</i>	<i>Chemical composition</i>
lemon	β -Pinene, γ -Terpinene, D-(+)-Limonene, Citral, Myrcene
orange	DL- α -Pinene, Linalool, Citral, Myrcene,
grapefruit	D-(+)-Limonene, Myrcene
clove	Eugenol, β -Caryophyllene, α -Humulene, Isoeugenol
cinnamon	Eugenol, Linalool, DL- α -Pinene, DL-Limonene
chamomile	Camphene
mint	(-)-Menthol, (-)-Menthone, Eucalyptol, L-limonene, β -Pinene, DL- α -Pinene
eucalyptus	Eucalyptol, D-(+)-Limonene, DL- α -Pinene, (+)- Camphor, Myrcene, β -Pinene, Sabinene, α -Terpineol, γ -Terpinene
ginger	Geranial, Neral, Camphene, Zingiberene, ar-curcumene, β -bisabolene, β -sesquiphellandrene