Supplementary Information for

Dielectric constant measurements of thin films and liquids using terahertz metamaterials

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**Supplementary information S1.** Schematic illustration of THz-TDS system. (PD: photodiode, PBS: polarized beam splitter, MM: metamaterials)

**Supplementary information S2.** Microscopic image of a fluidic metamaterial device with the injection of water
**Supplementary information S3.** (a) THz transmission amplitude of 2-μm-thick PMMA film as a function of frequency (b) Dielectric constant of PMMA film extracted from (a).