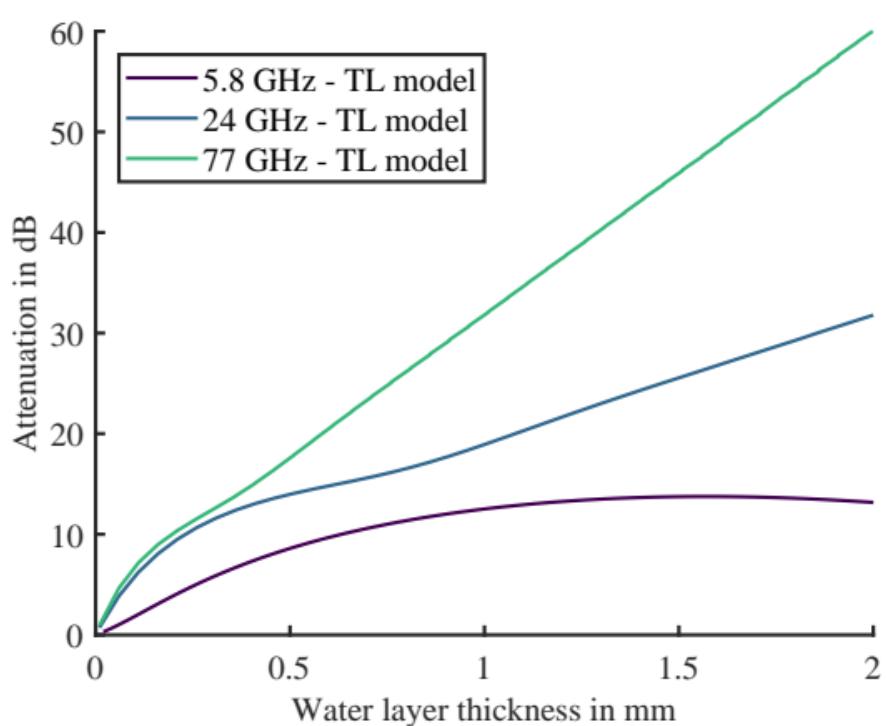
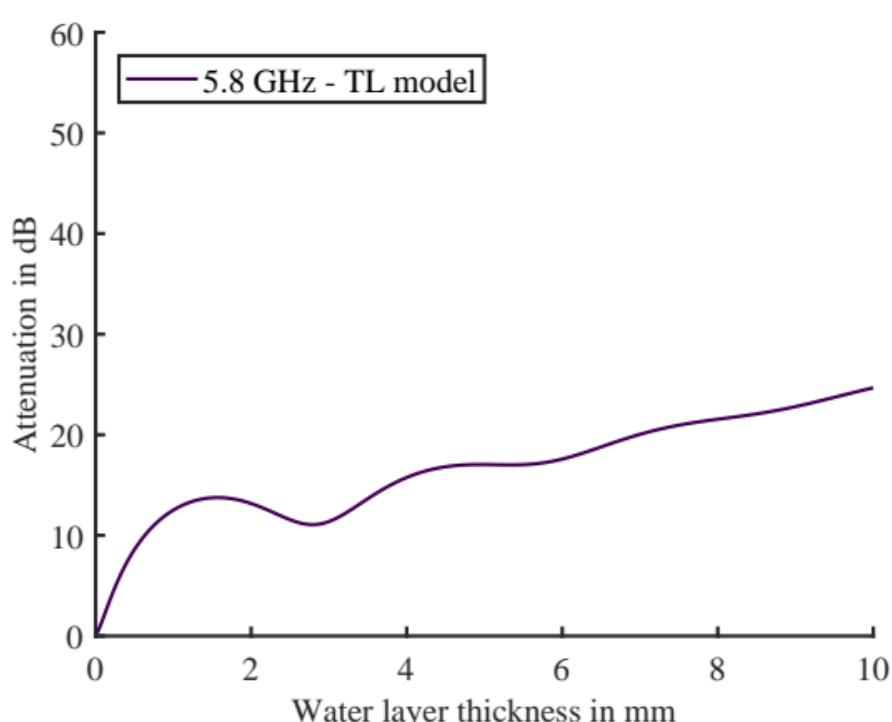


(a) Frequency dependent complex permittivity of water for  $0^\circ\text{C}$ ,  $20^\circ\text{C}$ ,  $40^\circ\text{C}$ . Real part as solid line, dashed line for imaginary part.



(b) One-way attenuation of water depending on the water layer thickness for 5.8 GHz, 24 GHz, and 77 GHz.



(c) One-way attenuation of water depending on its thickness for 5.8 GHz.