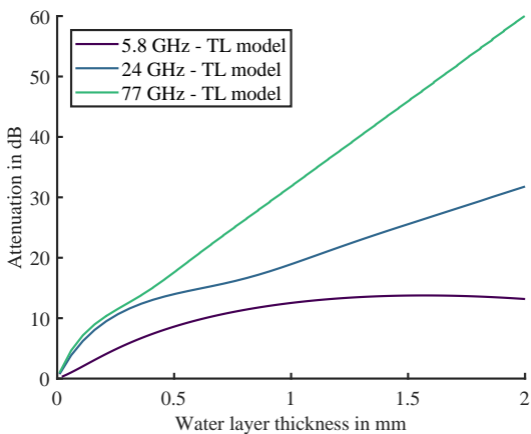
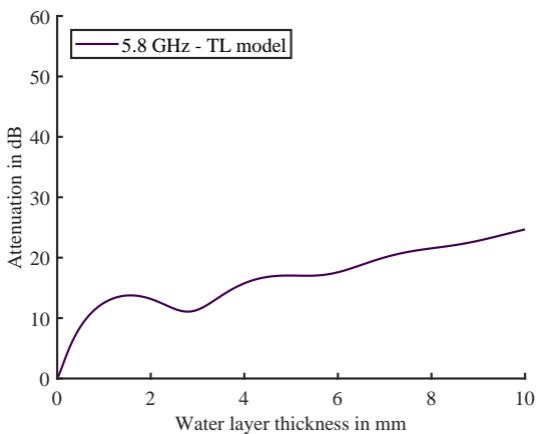


(a) Frequency dependent complex permittivity of water for 0°C , 20°C , 40°C . Real part as solid line, dashed line for imaginary part.



(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.