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Design of dielectric resonator liquid yagi-uda antenna with different shape

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Abstract:

This paper presents on modified the dielectric properties of liquid with varying salinity, that was based on yagi-uda structure. Dielectric resonator antennas (DRAs) can be made with a wide range of materials and allow many excitation methods [1]. Pure water does not work at high frequency (> 1 GHz), but increases the salinity of water that modifies the dielectric properties of water. The resonator column height determined the operating frequency [2]. These antenna shows that the salinity increases the antenna was resonated at different frequency.

Keywords:

Molar (M), resonant frequency, liquid dielectric, liquid yagi-uda antenna