

LIST OF ABBREVIATIONS AND SYMBOLS

BFT	BaFe _x Ti _{1-x} O ₃
BST	Ba _{1-x} Sr _x TiO ₃
BTS	BaTi _{1-x} Sn _x O ₃
CDRA	Cylindrical Dielectric Resonator Antenna
CNLS	Complex Nonlinear Least Squares
CPE	Constant Phase angle Element
DRA	Dielectric Resonator Antenna
EDS	Energy Dispersive Spectroscopy
FEM	Finite Element Method
HFSS	High Frequency Structure Simulator
P-E	Polarization vs Electric field
PVA	Polyvinyl Alcohol
RDRA	Rectangular Dielectric Resonator Antenna
SEM	Scanning Electron Microscopy
TEM	Transverse Electromagnetic Mode
XRD	X-Ray Diffraction
H	Magnetic Field
E	Electric field
n	Unit vector
ε	Permittivity
ε'	Real part of dielectric permittivity
ε''	Imaginary part of dielectric permittivity
tan δ	Loss tangent (loss)
P	Electric polarization
T_m	Temperature corresponding to maximum value of dielectric permittivity (ε')