

	8-channel Dipole	8-channel Loop	16-channel Loop + Dipole
B_1^+ efficiency	0.65	0.65	0.62
Peak 10 g SAR	0.49	0.52	0.40
SAR efficiency	0.94	0.93	1.06

SUPPLEMENTARY TABLE 1. Quantitative comparison of simulated B_1^+ efficiency, 10 g SAR, and SAR efficiency among the 8-channel dipole antenna, the 8-channel loop, and the 16-channel LD antenna arrays with human model (Duke) in the ROI marked for the highest value.