

MIMO SAR Test Results

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 16+7(7)	Standalone	0	2402	15.45	16.50	1.273	77.06	1.081	-0.05	0.496	0.683
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 16+7(16)	Standalone	39	2441	15.54	17.00	1.400	77.01	1.082	0.01	0.318	0.482
	Bluetooth	1Mbps	Back	15mm	Ant 16+7(7)	Full power	0	2402	15.45	16.50	1.273	77.06	1.081	-0.13	0.055	0.076
	Bluetooth	1Mbps	Front	15mm	Ant 16+7(16)	Full power	39	2441	15.54	17.00	1.400	77.01	1.082	-0.01	0.032	0.046
	Bluetooth	1Mbps	Right Side	10mm	Ant 16+7(7)	Full power	0	2402	15.45	16.50	1.273	77.06	1.081	-0.09	0.228	0.314
	Bluetooth	1Mbps	Top Side	10mm	Ant 16+7(16)	Full power	39	2441	15.54	17.00	1.400	77.01	1.082	0.05	0.090	0.136

MIMO SAR verification results

Bluetooth (Ant16+7) DS11 Head			
SISO Ant16 Plimit (dBm)	15.9	SISO Ant16 Pmax (dBm)	13.9
SISO Ant7 Plimit (dBm)	15.4	SISO Ant7 Pmax (dBm)	13.4
Ptest (dBm)	13.4	Total uncertainty (dB)	1.5
SAR design target (W/kg)	0.71	Back off	0
Measured MIMO Ptest (dBm)	13.40	Measured MIMO SAR at meas. Ptest (W/kg)	0.496
Reported SAR _{MIMO}	0.701	Calc. SAR	1.197

Bluetooth (Ant16+7) DS16 Hotspot			
SISO Ant16 Plimit (dBm)	21.8	SISO Ant16 Pmax (dBm)	13.9
SISO Ant7 Plimit (dBm)	18.7	SISO Ant7 Pmax (dBm)	13.4
Ptest (dBm)	13.4	Total uncertainty (dB)	1.5
SAR design target (W/kg)	0.71	Back off	0
Measured MIMO Ptest (dBm)	13.40	red MIMO SAR at meas. Ptest	0.228
Reported SAR _{MIMO}	0.322	Calc. SAR	0.441

Bluetooth (Ant16+7) DS14 Body-worn			
SISO Ant16 Plimit (dBm)	26.8	SISO Ant16 Pmax (dBm)	13.9
SISO Ant7 Plimit (dBm)	24.5	SISO Ant7 Pmax (dBm)	13.4
Ptest (dBm)	13.4	Total uncertainty (dB)	1.5
SAR design target (W/kg)	0.71	Back off	0
Measured MIMO Ptest (dBm)	13.40	red MIMO SAR at meas. Ptest	0.055
Reported SAR _{MIMO}	0.078	Calc. SAR	0.124