

MIMO SAR Verification Results

N41 UL-MIMO (Ant 0+1)			
SISO Ant0 Plimit (dBm)	25.4	SISO Ant0 Pmax (dBm)	23.0
SISO Ant1 Plimit (dBm)	20.5	SISO Ant1 Pmax (dBm)	23.0
Ptest (dBm)	20.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.95	Back off	0
Measured MIMO Ptest (dBm)	20.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.733
Reported SAR _{MIMO}	0.923	Calc.SAR	1.583

N77 UL-MIMO (Ant 0+1)			
SISO Ant0 Plimit (dBm)	20.0	SISO Ant0 Pmax (dBm)	26.0
SISO Ant1 Plimit (dBm)	22.0	SISO Ant1 Pmax (dBm)	26.0
Ptest (dBm)	20.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.95	Back off	0
Measured MIMO Ptest (dBm)	20.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.847
Reported SAR _{MIMO}	1.066	Calc.SAR	1.951

N78 UL-MIMO (Ant 0+1)			
SISO Ant0 Plimit (dBm)	20.0	SISO Ant0 Pmax (dBm)	26.0
SISO Ant1 Plimit (dBm)	23.0	SISO Ant1 Pmax (dBm)	26.0
Ptest (dBm)	20.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.95	Back off	0
Measured MIMO Ptest (dBm)	20.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.815
Reported SAR _{MIMO}	1.026	Calc.SAR	1.795

SAR Test																	
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 0+1(f)	518598	2592.99	22.54	24.00	1.400	-0.09	0.355	0.497
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 0+1(f)	518598	2592.99	20.19	21.50	1.352	-0.17	0.714	0.965
														1.000			0.000
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 0+1(f)	518598	2592.99	22.11	24.00	1.545	0.03	0.347	0.536
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 0+1(f)	518598	2592.99	20.12	21.50	1.374	0.12	0.733	1.007
														1.000			0.000
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 0+1(f)	633332	3499.98	26.06	27.00	1.242	0.08	0.812	1.008
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 0+1(f)	633332	3499.98	22.18	23.00	1.208	0.13	0.480	0.580
														1.000			0.000
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 0+1(f)	633332	3499.98	25.27	27.00	1.489	-0.09	0.847	1.261
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 0+1(f)	633332	3499.98	26.07	27.00	1.239	-0.07	0.437	0.541
														1.000			0.000
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 0+1(f)	633332	3499.98	25.54	27.00	1.400	-0.03	0.805	1.127
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 0+1(f)	633332	3499.98	22.45	24.00	1.429	0.01	0.374	0.534
														1.000			0.000
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 0+1(f)	633332	3499.98	25.16	27.00	1.528	0.02	0.815	1.245
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 0+1(f)	633332	3499.98	22.40	24.00	1.445	-0.18	0.374	0.541