

MIMO SAR verification results

N48 UL-MIMO (Ant7+4) DS12 Head			
SISO Ant7 Plimit (dBm)	13.8	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	21.1	SISO Ant4 Pmax (dBm)	23.0
Ptest (dBm)	13.8	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	13.80	Measured MIMO SAR at meas. Ptest (W/kg)	0.714
Reported SAR _{MIMO}	0.899	Calc.SAR	1.331

N48 UL-MIMO (Ant8+4) DS12 Head			
SISO Ant8 Plimit (dBm)	14.6	SISO Ant8 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	21.1	SISO Ant4 Pmax (dBm)	23.0
Ptest (dBm)	14.6	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	14.60	Measured MIMO SAR at meas. Ptest (W/kg)	0.689
Reported SAR _{MIMO}	0.867	Calc.SAR	1.373

Part270 N77 UL-MIMO (Ant7+4) DS12 Head			
SISO Ant7 Plimit (dBm)	13.8	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	13.8	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	13.80	Measured MIMO SAR at meas. Ptest (W/kg)	0.694
Reported SAR _{MIMO}	0.874	Calc.SAR	1.548

Part270 N77 UL-MIMO (Ant7+4) DS12 Head			
SISO Ant7 Plimit (dBm)	13.8	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	21.0
Ptest (dBm)	13.8	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	13.80	Measured MIMO SAR at meas. Ptest (W/kg)	0.731
Reported SAR _{MIMO}	0.920	Calc.SAR	1.548

Part270 N77 UL-MIMO (Ant8+4) DS12 Head			
SISO Ant8 Plimit (dBm)	16.7	SISO Ant8 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	16.7	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	16.70	Measured MIMO SAR at meas. Ptest (W/kg)	0.543
Reported SAR _{MIMO}	0.684	Calc.SAR	1.953

Part270 N77 UL-MIMO (Ant8+4) DS12 Head			
SISO Ant8 Plimit (dBm)	16.7	SISO Ant8 Pmax (dBm)	22.0
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	16.7	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	16.70	Measured MIMO SAR at meas. Ptest (W/kg)	0.491
Reported SAR _{MIMO}	0.618	Calc.SAR	1.953

N48 UL-MIMO (Ant7+4) DS13 Body worn			
SISO Ant7 Plimit (dBm)	16.8	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	15.5	SISO Ant4 Pmax (dBm)	23.0
Ptest (dBm)	15.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	15.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.605
Reported SAR _{MIMO}	0.762	Calc.SAR	1.953

N48 UL-MIMO (Ant8+4) DS13 Body worn			
SISO Ant8 Plimit (dBm)	14.8	SISO Ant8 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	15.5	SISO Ant4 Pmax (dBm)	23.0
Ptest (dBm)	14.8	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	14.80	Measured MIMO SAR at meas. Ptest (W/kg)	0.623
Reported SAR _{MIMO}	0.784	Calc.SAR	2.076

N77 UL-MIMO (Ant7+4) DS13 Body worn			
SISO Ant7 Plimit (dBm)	16.5	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	14.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	14.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	14.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.531
Reported SAR _{MIMO}	0.668	Calc.SAR	1.753

N77 UL-MIMO (Ant7+4) DS13 Body worn			
SISO Ant7 Plimit (dBm)	16.5	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	14.0	SISO Ant4 Pmax (dBm)	21.0
Ptest (dBm)	14.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	14.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.624
Reported SAR _{MIMO}	0.786	Calc.SAR	1.753

N77 UL-MIMO (Ant8+4) DS13 Body worn			
SISO Ant8 Plimit (dBm)	15.4	SISO Ant8 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	15.4	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	15.40	Measured MIMO SAR at meas. Ptest (W/kg)	0.634
Reported SAR _{MIMO}	0.798	Calc.SAR	1.738

N77 UL-MIMO (Ant8+4) DS13 Body worn			
SISO Ant8 Plimit (dBm)	15.4	SISO Ant8 Pmax (dBm)	22.0
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	15.4	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	15.40	Measured MIMO SAR at meas. Ptest (W/kg)	0.615
Reported SAR _{MIMO}	0.774	Calc.SAR	1.738

Part270

N77 PC1.5 (Ant7+4) DSI2 Head			
SISO Ant7 Plimit (dBm)	13.8	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	13.8	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	13.80	Measured MIMO SAR at meas. Ptest (W/kg)	0.623
Reported SAR _{MIMO}	0.784	Calc.SAR	1.548

N77 PC1.5 (Ant7+4) DSI3 Body worn			
SISO Ant7 Plimit (dBm)	16.5	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	14.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	14.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	14.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.511
Reported SAR _{MIMO}	0.643	Calc.SAR	1.753

Part270

N77 PC1.5 (Ant7+4) DSI2 Head			
SISO Ant7 Plimit (dBm)	13.8	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	21.0
Ptest (dBm)	13.8	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	13.80	Measured MIMO SAR at meas. Ptest (W/kg)	0.715
Reported SAR _{MIMO}	0.900	Calc.SAR	1.548

N77 PC1.5 (Ant7+4) DSI3 Body worn			
SISO Ant7 Plimit (dBm)	16.5	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	14.0	SISO Ant4 Pmax (dBm)	21.0
Ptest (dBm)	14.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	14.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.581
Reported SAR _{MIMO}	0.731	Calc.SAR	1.753

Part270

N77 PC1.5 (Ant8+4) DSI2 Head			
SISO Ant8 Plimit (dBm)	16.7	SISO Ant8 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	16.7	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	16.70	Measured MIMO SAR at meas. Ptest (W/kg)	0.633
Reported SAR _{MIMO}	0.797	Calc.SAR	1.953

N77 PC1.5 (Ant8+4) DSI3 Body worn			
SISO Ant8 Plimit (dBm)	15.4	SISO Ant8 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	14.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	14.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	14.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.594
Reported SAR _{MIMO}	0.748	Calc.SAR	1.934

Part270

N77 PC1.5 (Ant8+4) DSI2 Head			
SISO Ant8 Plimit (dBm)	16.7	SISO Ant8 Pmax (dBm)	22.0
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	21.0
Ptest (dBm)	16.7	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	16.70	Measured MIMO SAR at meas. Ptest (W/kg)	0.521
Reported SAR _{MIMO}	0.656	Calc.SAR	1.953

N77 PC1.5 (Ant8+4) DSI3 Body worn			
SISO Ant8 Plimit (dBm)	15.4	SISO Ant8 Pmax (dBm)	22.0
SISO Ant4 Plimit (dBm)	14.0	SISO Ant4 Pmax (dBm)	21.0
Ptest (dBm)	14.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.89	Back off	0
Measured MIMO Ptest (dBm)	14.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.581
Reported SAR _{MIMO}	0.731	Calc.SAR	1.934

N48 UL-MIMO (Ant7+4) DSI7 Hotspot			
SISO Ant7 Plimit (dBm)	13.0	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	13.6	SISO Ant4 Pmax (dBm)	23.0
Ptest (dBm)	13.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	13.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.401
Reported SAR _{MIMO}	0.505	Calc. SAR	1.460

N48 UL-MIMO (Ant7+4) DSI6 Extremity			
SISO Ant7 Plimit (dBm)	18.6	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	20.3	SISO Ant4 Pmax (dBm)	23.0
Ptest (dBm)	18.6	Total uncertainty (dB)	1.0
SAR design target (W/kg)	2.49	Back off	0
Measured MIMO Ptest (dBm)	18.60	Measured MIMO SAR at meas. Ptest (W/kg)	1.820
Reported SAR _{MIMO}	2.291	Calc. SAR	5.264

N48 UL-MIMO (Ant8+4) DSI7 Hotspot			
SISO Ant8 Plimit (dBm)	13.7	SISO Ant8 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	13.6	SISO Ant4 Pmax (dBm)	23.0
Ptest (dBm)	13.6	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	13.60	Measured MIMO SAR at meas. Ptest (W/kg)	0.455
Reported SAR _{MIMO}	0.573	Calc. SAR	1.543

N48 UL-MIMO (Ant8+4) DSI6 Extremity			
SISO Ant8 Plimit (dBm)	21.3	SISO Ant8 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	20.3	SISO Ant4 Pmax (dBm)	23.0
Ptest (dBm)	20.3	Total uncertainty (dB)	1.0
SAR design target (W/kg)	2.49	Back off	0
Measured MIMO Ptest (dBm)	20.30	Measured MIMO SAR at meas. Ptest (W/kg)	1.660
Reported SAR _{MIMO}	2.090	Calc. SAR	5.636

N77 UL-MIMO (Ant7+4) DSI7 Hotspot			
SISO Ant7 Plimit (dBm)	11.5	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	13.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	11.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	11.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.373
Reported SAR _{MIMO}	0.470	Calc. SAR	1.333

N77 UL-MIMO (Ant7+4) DSI6 Extremity			
SISO Ant7 Plimit (dBm)	18.3	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	17.5	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	17.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	2.49	Back off	0
Measured MIMO Ptest (dBm)	17.50	Measured MIMO SAR at meas. Ptest (W/kg)	1.560
Reported SAR _{MIMO}	1.964	Calc. SAR	5.753

N77 UL-MIMO (Ant7+4) DSI7 Hotspot			
SISO Ant7 Plimit (dBm)	11.5	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	13.0	SISO Ant4 Pmax (dBm)	21.0
Ptest (dBm)	11.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	11.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.257
Reported SAR _{MIMO}	0.324	Calc. SAR	1.333

N77 UL-MIMO (Ant7+4) DSI6 Extremity			
SISO Ant7 Plimit (dBm)	18.3	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	17.5	SISO Ant4 Pmax (dBm)	21.0
Ptest (dBm)	17.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	2.49	Back off	0
Measured MIMO Ptest (dBm)	17.50	Measured MIMO SAR at meas. Ptest (W/kg)	1.610
Reported SAR _{MIMO}	2.027	Calc. SAR	5.753

N77 UL-MIMO (Ant8+4) DSI7 Hotspot			
SISO Ant8 Plimit (dBm)	13.7	SISO Ant8 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	13.7	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	13.70	Measured MIMO SAR at meas. Ptest (W/kg)	0.545
Reported SAR _{MIMO}	0.686	Calc. SAR	1.071

N77 UL-MIMO (Ant8+4) DSI6 Extremity			
SISO Ant8 Plimit (dBm)	19.6	SISO Ant8 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	18.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	2.49	Back off	0
Measured MIMO Ptest (dBm)	18.00	Measured MIMO SAR at meas. Ptest (W/kg)	1.410
Reported SAR _{MIMO}	1.775	Calc. SAR	5.314

N77 UL-MIMO (Ant8+4) DSI7 Hotspot			
SISO Ant8 Plimit (dBm)	13.7	SISO Ant8 Pmax (dBm)	22.0
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	13.7	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	13.70	Measured MIMO SAR at meas. Ptest (W/kg)	0.469
Reported SAR _{MIMO}	0.590	Calc. SAR	1.071

N77 UL-MIMO (Ant8+4) DSI6 Extremity			
SISO Ant8 Plimit (dBm)	19.6	SISO Ant8 Pmax (dBm)	22.0
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	18.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	2.49	Back off	0
Measured MIMO Ptest (dBm)	18.00	Measured MIMO SAR at meas. Ptest (W/kg)	1.520
Reported SAR _{MIMO}	1.914	Calc. SAR	5.314

N77 PC1.5 (Ant7+4) DSI7 Hotspot			
SISO Ant7 Plimit (dBm)	11.5	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	13.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	11.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	11.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.413
Reported SAR _{MIMO}	0.520	Calc.SAR	1.333

N77 PC1.5 (Ant7+4) DSI6 Extremity			
SISO Ant7 Plimit (dBm)	18.3	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	17.5	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	17.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	2.49	Back off	0
Measured MIMO Ptest (dBm)	17.50	Measured MIMO SAR at meas. Ptest (W/kg)	1.610
Reported SAR _{MIMO}	2.027	Calc.SAR	5.753

N77 PC1.5 (Ant7+4) DSI7 Hotspot			
SISO Ant7 Plimit (dBm)	11.5	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	13.0	SISO Ant4 Pmax (dBm)	21.0
Ptest (dBm)	11.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	11.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.307
Reported SAR _{MIMO}	0.386	Calc.SAR	1.333

N77 PC1.5 (Ant7+4) DSI6 Extremity			
SISO Ant7 Plimit (dBm)	18.3	SISO Ant7 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	17.5	SISO Ant4 Pmax (dBm)	21.0
Ptest (dBm)	17.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	2.49	Back off	0
Measured MIMO Ptest (dBm)	17.50	Measured MIMO SAR at meas. Ptest (W/kg)	1.550
Reported SAR _{MIMO}	1.951	Calc.SAR	5.753

N77 PC1.5 (Ant8+4) DSI7 Hotspot			
SISO Ant8 Plimit (dBm)	13.7	SISO Ant8 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	13.0	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	13.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	13.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.571
Reported SAR _{MIMO}	0.719	Calc.SAR	1.445

N77 PC1.5 (Ant8+4) DSI6 Extremity			
SISO Ant8 Plimit (dBm)	19.6	SISO Ant8 Pmax (dBm)	23.0
SISO Ant4 Plimit (dBm)	17.5	SISO Ant4 Pmax (dBm)	22.0
Ptest (dBm)	17.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	2.49	Back off	0
Measured MIMO Ptest (dBm)	17.50	Measured MIMO SAR at meas. Ptest (W/kg)	1.560
Reported SAR _{MIMO}	1.964	Calc.SAR	5.077

N77 PC1.5 (Ant8+4) DSI7 Hotspot			
SISO Ant8 Plimit (dBm)	13.7	SISO Ant8 Pmax (dBm)	22.0
SISO Ant4 Plimit (dBm)	13.0	SISO Ant4 Pmax (dBm)	21.0
Ptest (dBm)	13.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.62	Back off	0
Measured MIMO Ptest (dBm)	13.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.519
Reported SAR _{MIMO}	0.653	Calc.SAR	1.445

N77 PC1.5 (Ant8+4) DSI6 Extremity			
SISO Ant8 Plimit (dBm)	19.6	SISO Ant8 Pmax (dBm)	22.0
SISO Ant4 Plimit (dBm)	17.5	SISO Ant4 Pmax (dBm)	21.0
Ptest (dBm)	17.5	Total uncertainty (dB)	1.0
SAR design target (W/kg)	2.49	Back off	0
Measured MIMO Ptest (dBm)	17.50	Measured MIMO SAR at meas. Ptest (W/kg)	1.450
Reported SAR _{MIMO}	1.825	Calc.SAR	5.077

Head SAR Test																							
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
UL MIMO	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7+4(7)	DSI 2	PathID 44	641666	3624.99	14.13	14.80	1.167		1.000	0.11	0.714	0.833		
UL MIMO	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7+4(4)	DSI 2	PathID 44	641666	3624.99	21.12	22.10	1.253		1.000	0.11	0.714	0.895		
UL MIMO	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8+4(8)	DSI 2	PathID 43	641666	3624.99	15.07	15.60	1.130		1.000	-0.05	0.689	0.778		
UL MIMO	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8+4(4)	DSI 2	PathID 43	641666	3624.99	21.12	22.10	1.253		1.000	-0.05	0.689	0.863		
UL MIMO	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7+4(7)	DSI 2	PathID 44	656000	3840	14.18	14.80	1.153		1.000	0.18	0.694	0.800		
UL MIMO	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7+4(4)	DSI 2	PathID 44	656000	3840	17.79	19.00	1.321		1.000	0.18	0.694	0.917		
UL MIMO	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7+4(7)	DSI 2	PathID 44	633334	3500.01	14.20	14.80	1.148		1.000	0.14	0.731	0.839		
UL MIMO	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7+4(4)	DSI 2	PathID 44	633334	3500.01	18.19	19.00	1.205		1.000	0.14	0.731	0.881		
UL MIMO	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8+4(8)	DSI 2	PathID 46	656000	3840	16.20	17.70	1.413		1.000	-0.17	0.543	0.767		
UL MIMO	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8+4(4)	DSI 2	PathID 46	656000	3840	17.81	19.00	1.315		1.000	-0.17	0.543	0.714		
UL MIMO	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8+4(8)	DSI 2	PathID 46	633334	3500.01	16.68	17.70	1.265		1.000	0.17	0.491	0.621		
UL MIMO	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8+4(4)	DSI 2	PathID 46	633334	3500.01	18.19	19.00	1.205		1.000	0.17	0.491	0.592		
PC1.5	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7+4(7)	DSI 2	PathID 44	656000	3840	17.28	17.80	1.127	50	1.000	0.08	0.623	0.702		
PC1.5	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7+4(4)	DSI 2	PathID 44	656000	3840	20.86	22.00	1.300	50	1.000	0.08	0.623	0.810		
PC1.5	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7+4(7)	DSI 2	PathID 44	633334	3500.01	17.29	17.80	1.125	50	1.000	0.01	0.715	0.804		
PC1.5	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7+4(4)	DSI 2	PathID 44	633334	3500.01	21.22	22.00	1.197	50	1.000	0.01	0.715	0.856		
PC1.5	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8+4(8)	DSI 2	PathID 46	656000	3840	19.18	20.70	1.419	50	1.000	0.03	0.633	0.898		
PC1.5	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8+4(4)	DSI 2	PathID 46	656000	3840	20.86	22.00	1.300	50	1.000	0.03	0.633	0.823		
PC1.5	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8+4(8)	DSI 2	PathID 46	633334	3500.01	19.72	20.70	1.253	50	1.000	-0.08	0.521	0.653		
PC1.5	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8+4(4)	DSI 2	PathID 46	633334	3500.01	21.22	22.00	1.197	50	1.000	-0.08	0.521	0.624		
Hotspot SAR Test																							
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	TestPosition	Gap (mm)	Antenna	Power State	Power Reduction	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)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
UL MIMO	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	5mm	Ant 7+4(7)	DSI7	PathID 44	641666	3624.99	12.20	14.00	1.514		1.000	0.1	0.401	0.607		
UL MIMO	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	5mm	Ant 7+4(4)	DSI7	PathID 44	641666	3624.99	13.52	14.60	1.282		1.000	0.1	0.401	0.514		
UL MIMO	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 8+4(8)	DSI7	PathID 40	641666	3624.99	13.51	14.70	1.315		1.000	0.04	0.455	0.598		
UL MIMO	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 8+4(4)	DSI7	PathID 40	641666	3624.99	13.52	14.60	1.282		1.000	0.04	0.455	0.583		
UL MIMO	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7+4(7)	DSI7	PathID 44	656000	3840	10.80	12.50	1.479		1.000	-0.08	0.373	0.552		
UL MIMO	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7+4(4)	DSI7	PathID 44	656000	3840	12.30	14.00	1.479		1.000	-0.08	0.373	0.552		
UL MIMO	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7+4(7)	DSI7	PathID 44	633334	3500.01	10.63	12.50	1.538		1.000	0.05	0.257	0.395		
UL MIMO	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7+4(4)	DSI7	PathID 44	633334	3500.01	12.51	14.00	1.409		1.000	0.05	0.257	0.362		
UL MIMO	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8+4(8)	DSI7	PathID 43	656000	3840	13.89	14.70	1.205		1.000	0.06	0.545	0.657		
UL MIMO	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8+4(4)	DSI7	PathID 43	656000	3840	12.30	14.00	1.479		1.000	0.06	0.545	0.806		
UL MIMO	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8+4(8)	DSI7	PathID 46	633334	3500.01	14.34	14.70	1.086		1.000	-0.09	0.469	0.510		
UL MIMO	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8+4(4)	DSI7	PathID 46	633334	3500.01	12.66	14.00	1.361		1.000	-0.09	0.469	0.639		
PC1.5	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7+4(7)	DSI7	PathID 44	656000	3840	13.84	15.50	1.466	50	1.000	-0.08	0.413	0.605		
PC1.5	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7+4(4)	DSI7	PathID 44	656000	3840	15.27	17.00	1.489	50	1.000	-0.08	0.413	0.615		
PC1.5	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7+4(7)	DSI7	PathID 44	633334	3500.01	13.62	15.50	1.542	50	1.000	0.1	0.307	0.473		
PC1.5	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7+4(4)	DSI7	PathID 44	633334	3500.01	15.68	17.00	1.355	50	1.000	0.1	0.307	0.416		
PC1.5	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8+4(8)	DSI7	PathID 43	656000	3840	16.86	17.70	1.213	50	1.000	-0.18	0.571	0.693		
PC1.5	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8+4(4)	DSI7	PathID 43	656000	3840	15.27	17.00	1.489	50	1.000	-0.18	0.571	0.850		
PC1.5	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8+4(8)	DSI7	PathID 46	633334	3500.01	17.25	17.70	1.109	50	1.000	0.12	0.519	0.576		
PC1.5	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8+4(4)	DSI7	PathID 46	633334	3500.01	15.71	17.00	1.348	50	1.000	0.12	0.519	0.699		
Body worn SAR Test																							
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	TestPosition	Gap (mm)	Antenna	Power State	Power Reduction	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)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
UL MIMO	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 7+4(7)	DSI3	PathID 40	641666	3624.99	16.34	17.80	1.400		1.000	0.16	0.605	0.847		
UL MIMO	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 7+4(4)	DSI3	PathID 40	641666	3624.99	15.22	16.50	1.343		1.000	0.16	0.605	0.812		
UL MIMO	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 8+4(8)	DSI3	PathID 40	641666	3624.99	14.89	15.80	1.233		1.000	-0.1	0.623	0.768		
UL MIMO	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 8+4(4)	DSI3	PathID 40	641666	3624.99	15.22	16.50	1.343		1.000	-0.1	0.623	0.837		