

MIMO SAR verification results

BT UL-MIMO (Ant 7+10) Head

SISO Ant7 P _{limit} (dBm)	17.4	SISO Ant4 P _{max} (dBm)	14.4
SISO Ant10 P _{limit} (dBm)	20.0	SISO Ant7 P _{max} (dBm)	14.4
P _{test} (dBm)	14.4	Total uncertainty (dB)	2.0
SAR design target (W/kg)	0.69	Back off	0
Measured MIMO P _{test} (dBm)	14.40	Measured MIMO SAR at meas. P _{test} (W/kg)	0.254
Reported SAR _{MIMO}	0.403	Calc. SAR	0.849

BT UL-MIMO (Ant 7+10)Body-worn

SISO Ant7 P _{limit} (dBm)	18.9	SISO Ant4 P _{max} (dBm)	14.4
SISO Ant10 P _{limit} (dBm)	23.6	SISO Ant7 P _{max} (dBm)	14.4
P _{test} (dBm)	14.4	Total uncertainty (dB)	2.0
SAR design target (W/kg)	0.69	Back off	0
Measured MIMO P _{test} (dBm)	14.40	Measured MIMO SAR at meas. P _{test} (W/kg)	0.223
Reported SAR _{MIMO}	0.353	Calc. SAR	0.519

BT UL-MIMO (Ant 7+10) Hotspot

SISO Ant7 P _{limit} (dBm)	19.7	SISO Ant4 P _{max} (dBm)	14.4
SISO Ant10 P _{limit} (dBm)	43.4	SISO Ant7 P _{max} (dBm)	14.4
P _{test} (dBm)	14.4	Total uncertainty (dB)	2.0
SAR design target (W/kg)	0.69	Back off	0
Measured MIMO P _{test} (dBm)	14.40	Measured MIMO SAR at meas. P _{test} (W/kg)	0.132
Reported SAR _{MIMO}	0.209	Calc. SAR	0.324

N7 UL-MIMO (Ant4+7) Head

SISO Ant4 Plimit (dBm)	16.5	SISO Ant4 Pmax (dBm)	25.0
SISO Ant7 Plimit (dBm)	16.0	SISO Ant7 Pmax (dBm)	23.0
Ptest (dBm)	16.0	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	16.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.761
Reported SAR _{MIMO}	1.003	Calc. SAR	2.069

N7 UL-MIMO (Ant5+7) Head

SISO Ant5 Plimit (dBm)	15.0	SISO Ant5 Pmax (dBm)	25.0
SISO Ant7 Plimit (dBm)	16.0	SISO Ant7 Pmax (dBm)	23.0
Ptest (dBm)	15.0	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	15.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.536
Reported SAR _{MIMO}	0.707	Calc. SAR	1.963

N7 UL-MIMO (Ant4+7) Body-worn

SISO Ant4 Plimit (dBm)	17.5	SISO Ant4 Pmax (dBm)	25.0
SISO Ant7 Plimit (dBm)	15.5	SISO Ant7 Pmax (dBm)	23.0
Ptest (dBm)	15.5	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	15.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.521
Reported SAR _{MIMO}	0.687	Calc. SAR	1.785

N7 UL-MIMO (Ant5+7) Body-worn

SISO Ant5 Plimit (dBm)	17.0	SISO Ant5 Pmax (dBm)	25.0
SISO Ant7 Plimit (dBm)	15.5	SISO Ant7 Pmax (dBm)	23.0
Ptest (dBm)	15.5	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	15.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.536
Reported SAR _{MIMO}	0.707	Calc. SAR	1.869

N7 UL-MIMO (Ant4+7) Hotspot

SISO Ant4 Plimit (dBm)	16.5	SISO Ant4 Pmax (dBm)	25.0
SISO Ant7 Plimit (dBm)	15.5	SISO Ant7 Pmax (dBm)	23.0
Ptest (dBm)	15.5	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	15.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.301
Reported SAR _{MIMO}	0.397	Calc. SAR	1.963

N7 UL-MIMO (Ant5+7) Hotspot

SISO Ant5 Plimit (dBm)	15.0	SISO Ant5 Pmax (dBm)	25.0
SISO Ant7 Plimit (dBm)	15.5	SISO Ant7 Pmax (dBm)	23.0
Ptest (dBm)	15.0	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	15.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.232
Reported SAR _{MIMO}	0.306	Calc. SAR	2.069

N41 PC3 UL-MIMO (Ant4+7) Head

SISO Ant4 Plimit (dBm)	16.0	SISO Ant4 Pmax (dBm)	25.0
SISO Ant7 Plimit (dBm)	17.0	SISO Ant7 Pmax (dBm)	21.5
Ptest (dBm)	16.0	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	16.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.690
Reported SAR _{MIMO}	0.910	Calc. SAR	1.963

N41 PC3 UL-MIMO (Ant5+7) Head

SISO Ant5 Plimit (dBm)	15.5	SISO Ant5 Pmax (dBm)	25.0
SISO Ant7 Plimit (dBm)	17.0	SISO Ant7 Pmax (dBm)	21.5
Ptest (dBm)	15.5	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	15.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.736
Reported SAR _{MIMO}	0.970	Calc. SAR	1.869

N41 PC2 UL-MIMO (Ant4+7) Head

SISO Ant4 Plimit (dBm)	16.0	SISO Ant4 Pmax (dBm)	23.0
SISO Ant7 Plimit (dBm)	17.0	SISO Ant7 Pmax (dBm)	19.5
Ptest (dBm)	16.0	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	16.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.712
Reported SAR _{MIMO}	0.939	Calc. SAR	1.963

N41 PC2 UL-MIMO (Ant5+7) Head

SISO Ant5 Plimit (dBm)	15.5	SISO Ant5 Pmax (dBm)	23.0
SISO Ant7 Plimit (dBm)	17.0	SISO Ant7 Pmax (dBm)	19.5
Ptest (dBm)	15.5	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	15.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.739
Reported SAR _{MIMO}	0.974	Calc. SAR	1.869

N41 PC3 UL-MIMO (Ant4+7) Body-worn

SISO Ant4 Plimit (dBm)	17.0	SISO Ant4 Pmax (dBm)	25.0
SISO Ant7 Plimit (dBm)	20.5	SISO Ant7 Pmax (dBm)	21.5
Ptest (dBm)	17.0	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	17.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.500
Reported SAR _{MIMO}	0.659	Calc. SAR	1.583

N41 PC3 UL-MIMO (Ant5+7) Body-worn

SISO Ant5 Plimit (dBm)	17.5	SISO Ant5 Pmax (dBm)	25.0
SISO Ant7 Plimit (dBm)	20.5	SISO Ant7 Pmax (dBm)	21.5
Ptest (dBm)	17.5	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	17.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.741
Reported SAR _{MIMO}	0.977	Calc. SAR	1.643

N41 PC2 UL-MIMO (Ant4+7) Body-worn

SISO Ant4 Plimit (dBm)	17.0	SISO Ant4 Pmax (dBm)	23.0
SISO Ant7 Plimit (dBm)	20.5	SISO Ant7 Pmax (dBm)	19.5
Ptest (dBm)	17.0	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	17.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.598
Reported SAR _{MIMO}	0.788	Calc. SAR	1.583

N41 PC2 UL-MIMO (Ant5+7) Body-worn

SISO Ant5 Plimit (dBm)	17.5	SISO Ant5 Pmax (dBm)	23.0
SISO Ant7 Plimit (dBm)	20.5	SISO Ant7 Pmax (dBm)	19.5
Ptest (dBm)	17.5	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	17.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.823
Reported SAR _{MIMO}	1.085	Calc. SAR	1.643

N41 PC3 UL-MIMO (Ant4+7) Hotspot

SISO Ant4 Plimit (dBm)	16.0	SISO Ant4 Pmax (dBm)	25.0
SISO Ant7 Plimit (dBm)	17.0	SISO Ant7 Pmax (dBm)	21.5
Ptest (dBm)	16.0	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	16.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.295
Reported SAR _{MIMO}	0.389	Calc. SAR	1.963

N41 PC3 UL-MIMO (Ant5+7) Hotspot

SISO Ant5 Plimit (dBm)	15.5	SISO Ant5 Pmax (dBm)	25.0
SISO Ant7 Plimit (dBm)	17.0	SISO Ant7 Pmax (dBm)	21.5
Ptest (dBm)	15.5	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	15.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.250
Reported SAR _{MIMO}	0.330	Calc. SAR	1.869

N41 PC2 UL-MIMO (Ant4+7) Hotspot

SISO Ant4 Plimit (dBm)	16.0	SISO Ant4 Pmax (dBm)	23.0
SISO Ant7 Plimit (dBm)	17.0	SISO Ant7 Pmax (dBm)	19.5
Ptest (dBm)	16.0	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	16.00	Measured MIMO SAR at meas. Ptest (W/kg)	0.314
Reported SAR _{MIMO}	0.414	Calc. SAR	1.963

N41 PC2 UL-MIMO (Ant5+7) Hotspot

SISO Ant5 Plimit (dBm)	15.5	SISO Ant5 Pmax (dBm)	23.0
SISO Ant7 Plimit (dBm)	17.0	SISO Ant7 Pmax (dBm)	19.5
Ptest (dBm)	15.5	Total uncertainty (dB)	1.2
SAR design target (W/kg)	0.83	Back off	0
Measured MIMO Ptest (dBm)	15.50	Measured MIMO SAR at meas. Ptest (W/kg)	0.256
Reported SAR _{MIMO}	0.337	Calc. SAR	1.869

Head SAR Test																	DASY SAR			
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	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)			
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 7+10	39	2441	15.62	17.50	1.542	77.02	1.082	0.03	0.137	0.229	0.068	0.113			
	Bluetooth	1Mbps	Right Titled	0mm	Ant 7+10	39	2441	15.62	17.50	1.542	77.02	1.082	0.09	0.150	0.250	0.073	0.122			
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7+10	39	2441	15.62	17.50	1.542	77.02	1.082	0.06	0.254	0.424	0.132	0.220			
	Bluetooth	1Mbps	Left Titled	0mm	Ant 7+10	39	2441	15.62	17.50	1.542	77.02	1.082	0.04	0.125	0.209	0.064	0.107			
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7+10	0	2402	15.68	17.50	1.521	77.02	1.082	0.02	0.181	0.297	0.096	0.158			
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7+10	78	2480	15.78	17.50	1.486	77.02	1.082	0.09	0.214	0.344	0.113	0.182			
	Bluetooth	1Mbps	Front	10mm	Ant 7+10	39	2441	15.62	17.50	1.542	77.02	1.082	0.04	0.046	0.077	0.026	0.043			
	Bluetooth	1Mbps	Back	10mm	Ant 7+10	39	2441	15.62	17.50	1.542	77.02	1.082	0.02	0.020	0.033	0.013	0.022			
	Bluetooth	1Mbps	Left Side	10mm	Ant 7+10	39	2441	15.62	17.50	1.542	77.02	1.082	-0.06	0.010	0.017	0.005	0.008			
	Bluetooth	1Mbps	Right Side	10mm	Ant 7+10	39	2441	15.62	17.50	1.542	77.02	1.082	-0.01	0.118	0.197	0.064	0.107			
	Bluetooth	1Mbps	Top Side	10mm	Ant 7+10	39	2441	15.62	17.50	1.542	77.02	1.082	0.04	0.053	0.088	0.027	0.045			
	Bluetooth	1Mbps	Bottom Side	10mm	Ant 7+10	39	2441	15.62	17.50	1.542	77.02	1.082	0.12	0.000	0.000	0.000	0.000			
	Bluetooth	1Mbps	Right Side	10mm	Ant 7+10	0	2402	15.68	17.50	1.521	77.02	1.082	0.06	0.132	0.217	0.067	0.110			
	Bluetooth	1Mbps	Right Side	10mm	Ant 7+10	78	2480	15.78	17.50	1.486	77.02	1.082	0.16	0.090	0.145	0.120	0.193			
	Bluetooth	1Mbps	Front	5mm	Ant 7+10	39	2441	15.62	17.50	1.542	77.02	1.082	0.08	0.115	0.192	0.058	0.097			
	Bluetooth	1Mbps	Back	5mm	Ant 7+10	39	2441	15.62	17.50	1.542	77.02	1.082	0.06	0.051	0.085	0.030	0.050			
	Bluetooth	1Mbps	Front	5mm	Ant 7+10	0	2402	15.68	17.50	1.521	77.02	1.082	0.03	0.223	0.367	0.106	0.174			
	Bluetooth	1Mbps	Front	5mm	Ant 7+10	78	2480	15.78	17.50	1.486	77.02	1.082	0.04	0.098	0.158	0.050	0.080			

Head SAR Test																			DASY SAR				
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Power Setting	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)	
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Right Cheek	0mm	Ant 4+7	507000	2535	165	16.55	17.20	1.161		1.000	0.03	0.735	0.853	0.368	0.427	
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Right Cheek	0mm	Ant 4+7	507000	2535	165	16.49	17.20	1.178		1.000	0.01	0.761	0.896	0.379	0.446	
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Right Tilted	0mm	Ant 4+7	507000	2535	165	16.55	17.20	1.161		1.000	-0.06	0.709	0.823	0.336	0.390	
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Right Tilted	0mm	Ant 4+7	507000	2535	165	16.49	17.20	1.178		1.000	0.05	0.720	0.848	0.348	0.410	
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Left Cheek	0mm	Ant 4+7	507000	2535	165	16.55	17.20	1.161		1.000	0.01	0.546	0.634	0.247	0.287	
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Left Cheek	0mm	Ant 4+7	507000	2535	165	16.49	17.20	1.178		1.000	-0.05	0.486	0.573	0.250	0.295	
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Left Tilted	0mm	Ant 4+7	507000	2535	165	16.55	17.20	1.161		1.000	0.01	0.606	0.704	0.293	0.340	
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Left Tilted	0mm	Ant 4+7	507000	2535	165	16.49	17.20	1.178		1.000	0.09	0.677	0.798	0.327	0.385	
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Right Cheek	0mm	Ant 5+7	507000	2535	150	16.55	17.20	1.161		1.000	0.12	0.536	0.622	0.279	0.324	
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Right Cheek	0mm	Ant 5+7	507000	2535	150	16.49	17.20	1.178		1.000	0.06	0.515	0.607	0.261	0.331	
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Right Tilted	0mm	Ant 5+7	507000	2535	150	16.55	17.20	1.161		1.000	0.04	0.365	0.424	0.179	0.208	
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Right Tilted	0mm	Ant 5+7	507000	2535	150	16.49	17.20	1.178		1.000	-0.01	0.422	0.497	0.208	0.245	
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Left Cheek	0mm	Ant 5+7	507000	2535	150	16.55	17.20	1.161		1.000	0.08	0.372	0.432	0.164	0.190	
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Left Cheek	0mm	Ant 5+7	507000	2535	150	16.49	17.20	1.178		1.000	0.05	0.337	0.397	0.151	0.178	
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Left Tilted	0mm	Ant 5+7	507000	2535	150	16.55	17.20	1.161		1.000	0.06	0.218	0.253	0.111	0.129	
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Left Tilted	0mm	Ant 5+7	507000	2535	150	16.49	17.20	1.178		1.000	0.01	0.272	0.320	0.139	0.164	
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Right Cheek	0mm	Ant 4+7	518598	2592.99	160	16.05	16.70	1.161		1.000	0.07	0.690	0.801	0.347	0.403	
FR1 n41	100M	QPSK	135	68		DFT-SCS-15KHz	Right Cheek	0mm	Ant 4+7	518598	2592.99	160	15.99	16.70	1.178		1.000	-0.05	0.661	0.779	0.325	0.383	
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Right Tilted	0mm	Ant 4+7	518598	2592.99	160	16.05	16.70	1.161		1.000	-0.06	0.631	0.733	0.298	0.346	
FR1 n41	100M	QPSK	135	68		DFT-SCS-15KHz	Right Tilted	0mm	Ant 4+7	518598	2592.99	160	15.99	16.70	1.178		1.000	-0.12	0.610	0.719	0.283	0.333	
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Left Cheek	0mm	Ant 4+7	518598	2592.99	160	16.05	16.70	1.161		1.000	0.15	0.444	0.515	0.225	0.261	
FR1 n41	100M	QPSK	135	68		DFT-SCS-15KHz	Left Cheek	0mm	Ant 4+7	518598	2592.99	160	15.99	16.70	1.178		1.000	0.11	0.409	0.482	0.207	0.244	
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Left Tilted	0mm	Ant 4+7	518598	2592.99	160	16.05	16.70	1.161		1.000	-0.13	0.595	0.691	0.288	0.334	
FR1 n41	100M	QPSK	135	68		DFT-SCS-15KHz	Left Tilted	0mm	Ant 4+7	518598	2592.99	160	15.99	16.70	1.178		1.000	0.05	0.568	0.669	0.280	0.330	
FR1 n41 HPUE	100M	QPSK	1	1		DFT-SCS-15KHz	Right Cheek	0mm	Ant 4+7	518598	2592.99	190	20.70	21.20	1.122	50	1.000	-0.01	0.712	0.799	0.358	0.402	
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Right Cheek	0mm	Ant 5+7	518598	2592.99	155	17.63	18.20	1.140		1.000	0.06	0.736	0.839	0.306	0.349	
FR1 n41	100M	QPSK	135	68		DFT-SCS-15KHz	Right Cheek	0mm	Ant 5+7	518598	2592.99	155	17.62	18.20	1.143		1.000	0.04	0.591	0.676	0.247	0.282	
FR1 n41	100M	QPSK	270	0		DFT-SCS-15KHz	Right Cheek	0mm	Ant 5+7	518598	2592.99	155	17.56	18.20	1.159		1.000	0.02	0.595	0.690	0.250	0.290	
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Right Tilted	0mm	Ant 5+7	518598	2592.99	155	17.63	18.20	1.140		1.000	-0.03	0.310	0.353	0.145	0.165	
FR1 n41	100M	QPSK	135	68		DFT-SCS-15KHz	Right Tilted	0mm	Ant 5+7	518598	2592.99	155	17.62	18.20	1.143		1.000	0.01	0.259	0.296	0.119	0.136	
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Left Cheek	0mm	Ant 5+7	518598	2592.99	155	17.63	18.20	1.140		1.000	-0.04	0.212	0.242	0.100	0.114	
FR1 n41	100M	QPSK	135	68		DFT-SCS-15KHz	Left Cheek	0mm	Ant 5+7	518598	2592.99	155	17.62	18.20	1.143		1.000	0.06	0.186	0.213	0.087	0.099	
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Left Tilted	0mm	Ant 5+7	518598	2592.99	155	17.63	18.20	1.140		1.000	-0.01	0.116	0.132	0.059	0.067	
FR1 n41	100M	QPSK	135	68		DFT-SCS-15KHz	Left Tilted	0mm	Ant 5+7	518598	2592.99	155	17.62	18.20	1.143		1.000	0.05	0.096	0.110	0.048	0.055	
FR1 n41 HPUE	100M	QPSK	1	1		DFT-SCS-15KHz	Right Cheek	0mm	Ant 5+7	518598	2592.99	185	20.70	21.20	1.122	50	1.000	0.02	0.739	0.829	0.308	0.346	

HospitSAR Test																					DASY SAR			
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Power Setting	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)		
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Front	10mm	Ant 4+7	507000	2535	165	16.04	16.70	1.164	1.000	0.03	0.133	0.155	0.065	0.076			
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Front	10mm	Ant 4+7	507000	2535	165	16.05	16.70	1.161	1.000	-0.01	0.139	0.160	0.073	0.085			
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Back	10mm	Ant 4+7	507000	2535	165	16.04	16.70	1.164	1.000	-0.02	0.167	0.194	0.081	0.094			
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Back	10mm	Ant 4+7	507000	2535	165	16.05	16.70	1.161	1.000	0.12	0.169	0.196	0.082	0.095			
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Left Side	10mm	Ant 4+7	507000	2535	165	16.04	16.70	1.164	1.000	0.03	0.056	0.065	0.027	0.031			
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Left Side	10mm	Ant 4+7	507000	2535	165	16.05	16.70	1.161	1.000	-0.04	0.055	0.064	0.026	0.030			
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Right Side	10mm	Ant 4+7	507000	2535	165	16.04	16.70	1.164	1.000	0.05	0.193	0.225	0.092	0.107			
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Right Side	10mm	Ant 4+7	507000	2535	165	16.05	16.70	1.161	1.000	-0.09	0.160	0.186	0.077	0.089			
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Top Side	10mm	Ant 4+7	507000	2535	165	16.04	16.70	1.164	1.000	-0.12	0.285	0.332	0.131	0.152			
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Top Side	10mm	Ant 4+7	507000	2535	165	16.05	16.70	1.161	1.000	-0.16	0.301	0.349	0.137	0.159			
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Bottom Side	10mm	Ant 4+7	507000	2535	165	16.04	16.70	1.164	1.000	0.05	0.000	0.000	0.000	0.000			
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Bottom Side	10mm	Ant 4+7	507000	2535	165	16.05	16.70	1.161	1.000	0.07	0.000	0.000	0.000	0.000			
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Front	10mm	Ant 5+7	507000	2535	170	16.04	16.70	1.164	1.000	0.11	0.128	0.149	0.068	0.079			
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Front	10mm	Ant 5+7	507000	2535	170	16.05	16.70	1.161	1.000	0.15	0.160	0.186	0.083	0.096			
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Back	10mm	Ant 5+7	507000	2535	170	16.04	16.70	1.164	1.000	0.06	0.173	0.201	0.087	0.101			
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Back	10mm	Ant 5+7	507000	2535	170	16.05	16.70	1.161	1.000	0.08	0.206	0.239	0.106	0.123			
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Left Side	10mm	Ant 5+7	507000	2535	170	16.04	16.70	1.164	1.000	-0.02	0.179	0.208	0.087	0.101			
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Left Side	10mm	Ant 5+7	507000	2535	170	16.05	16.70	1.161	1.000	0.06	0.153	0.178	0.077	0.089			
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Right Side	10mm	Ant 5+7	507000	2535	170	16.04	16.70	1.164	1.000	-0.01	0.232	0.270	0.114	0.133			
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Right Side	10mm	Ant 5+7	507000	2535	170	16.05	16.70	1.161	1.000	0.05	0.192	0.223	0.097	0.113			
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Top Side	10mm	Ant 5+7	507000	2535	170	16.04	16.70	1.164	1.000	0.03	0.158	0.184	0.080	0.093			
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Top Side	10mm	Ant 5+7	507000	2535	170	16.05	16.70	1.161	1.000	0.08	0.218	0.253	0.110	0.128			
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Bottom Side	10mm	Ant 5+7	507000	2535	170	16.04	16.70	1.164	1.000	-0.12	0.000	0.000	0.000	0.000			
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Bottom Side	10mm	Ant 5+7	507000	2535	170	16.05	16.70	1.161	1.000	-0.11	0.000	0.000	0.000	0.000			
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Front	10mm	Ant 4+7	518598	2592.99	160	16.05	16.70	1.161	1.000	0.06	0.117	0.136	0.051	0.059			
FR1 n41	100M	QPSK	135	69		DFT-SCS-15KHz	Front	10mm	Ant 4+7	518598	2592.99	160	15.99	16.70	1.178	1.000	0.04	0.118	0.139	0.050	0.059			
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Back	10mm	Ant 4+7	518598	2592.99	160	16.05	16.70	1.161	1.000	0.01	0.149	0.173	0.063	0.073			
FR1 n41	100M	QPSK	135	69		DFT-SCS-15KHz	Back	10mm	Ant 4+7	518598	2592.99	160	15.99	16.70	1.178	1.000	-0.11	0.150	0.177	0.063	0.074			
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Left Side	10mm	Ant 4+7	518598	2592.99	160	16.05	16.70	1.161	1.000	-0.05	0.059	0.068	0.025	0.029			
FR1 n41	100M	QPSK	135	69		DFT-SCS-15KHz	Left Side	10mm	Ant 4+7	518598	2592.99	160	15.99	16.70	1.178	1.000	0.08	0.061	0.072	0.026	0.031			
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Right Side	10mm	Ant 4+7	518598	2592.99	160	16.05	16.70	1.161	1.000	0.07	0.134	0.156	0.057	0.066			
FR1 n41	100M	QPSK	135	69		DFT-SCS-15KHz	Right Side	10mm	Ant 4+7	518598	2592.99	160	15.99	16.70	1.178	1.000	-0.06	0.110	0.130	0.047	0.055			
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Top Side	10mm	Ant 4+7	518598	2592.99	160	16.05	16.70	1.161	1.000	0.01	0.281	0.326	0.113	0.131			
FR1 n41	100M	QPSK	135	69		DFT-SCS-15KHz	Top Side	10mm	Ant 4+7	518598	2592.99	160	15.99	16.70	1.178	1.000	-0.05	0.295	0.346	0.119	0.140			
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Bottom Side	10mm	Ant 4+7	518598	2592.99	160	16.05	16.70	1.161	1.000	0.06	0.000	0.000	0.000	0.000			
FR1 n41	100M	QPSK	135	69		DFT-SCS-15KHz	Bottom Side	10mm	Ant 4+7	518598	2592.99	160	15.99	16.70	1.178	1.000	0.01	0.000	0.000	0.000	0.000			
FR1 n41 HPUE	100M	QPSK	135	69		DFT-SCS-15KHz	Top Side	10mm	Ant 4+7	518598	2592.99	190	20.70	21.20	1.122	50	1.000	0.06	0.314	0.352	0.124	0.139		
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Front	10mm	Ant 5+7	518598	2592.99	155	17.63	18.20	1.140	1.000	-0.03	0.152	0.173	0.067	0.076			
FR1 n41	100M	QPSK	135	69		DFT-SCS-15KHz	Front	10mm	Ant 5+7	518598	2592.99	155	17.62	18.20	1.143	1.000	0.01	0.122	0.139	0.053	0.061			
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Back	10mm	Ant 5+7	518598	2592.99	155	17.63	18.20	1.140	1.000	-0.09	0.219	0.250	0.089	0.101			
FR1 n41	100M	QPSK	135	69		DFT-SCS-15KHz	Back	10mm	Ant 5+7	518598	2592.99	155	17.62	18.20	1.143	1.000	0.04	0.175	0.200	0.073	0.083			
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Left Side	10mm	Ant 5+7	518598	2592.99	155	17.63	18.20	1.140	1.000	-0.08	0.250	0.285	0.107	0.122			
FR1 n41	100M	QPSK	135	69		DFT-SCS-15KHz	Left Side	10mm	Ant 5+7	518598	2592.99	155	17.62	18.20	1.143	1.000	0.06	0.207	0.237	0.087	0.099			
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Right Side	10mm	Ant 5+7	518598	2592.99	155	17.63	18.20	1.140	1.000	0.01	0.106	0.121	0.048	0.055			
FR1 n41	100M	QPSK	135	69		DFT-SCS-15KHz	Right Side	10mm	Ant 5+7	518598	2592.99	155	17.62	18.20	1.143	1.000	0.03	0.091	0.104	0.041	0.047			
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Top Side	10mm	Ant 5+7	518598	2592.99	155	17.63	18.20	1.140	1.000	-0.07	0.069	0.079	0.032	0.036			
FR1 n41	100M	QPSK	135	69		DFT-SCS-15KHz	Top Side	10mm	Ant 5+7	518598	2592.99	155	17.62	18.20	1.143	1.000	0.06	0.062	0.071	0.029	0.033			
FR1 n41	100M	QPSK	1	1		DFT-SCS-15KHz	Bottom Side	10mm	Ant 5+7	518598	2592.99	155	17.63	18.20	1.140	1.000	0.09	0.000	0.000	0.000	0.000			
FR1 n41	100M	QPSK	135	69		DFT-SCS-15KHz	Bottom Side	10mm	Ant 5+7	518598	2592.99	155	17.62	18.20	1.143	1.000	0.01	0.000	0.000	0.000	0.000			
FR1 n41 HPUE	100M	QPSK	1	1		DFT-SCS-15KHz	Left Side	10mm	Ant 5+7	518598	2592.99	185	20.70	21.20	1.122	50	1.000	-0.05	0.256	0.287	0.105	0.118		
Body-Worn SAR Test																								
HospitSAR Test																					DASY SAR			
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Power Setting	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)		
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Front	5mm	Ant 4+7	507000	2535	165	16.04	16.70	1.164	1.000	0.06	0.405	0.471	0.188	0.219			
FR1 n7	50M	QPSK	135	68		DFT-SCS-15KHz	Front	5mm	Ant 4+7	507000	2535	165	16.05	16.70	1.161	1.000	0.04	0.377	0.438	0.188	0.218			
FR1 n7	50M	QPSK	1	1		DFT-SCS-15KHz	Back	5mm	Ant 4+7	507000	2535	165	16.04	16.70	1.164	1.000	-0.04	0.521	0.606	0.236	0.275			
FR1 n7	50M																							