

configuration, the middle channel of the group of overlapping channels should be selected for testing.

7. LTE B2 / B4 /B5 / B17 / B38 SAR test was covered by B25 / B66 / B26 / B12 / B41 / B48; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is \leq the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

5G NR Note:

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - c. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are \leq 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is $>$ 1.45 W/kg, the remaining required test channels must also be tested.
 - d. $\pi/2$ BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, $\pi/2$ BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - e. Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is \leq 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - f. For 5G FR1 n5 /n7/n12/n25/n26/n66/n71/n41/n48/n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is \leq 1.2 W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is \leq 1.2 W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is $>$ 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is \leq 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is $>$ 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is \leq 1.2 W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.



16.1 Head SAR

Table with columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Antenna, Power State, Ch., Freq. (MHz), Sample, Average Power (dBm), Tune-Up Limit (dBm), Tune-up Scaling Factor, Duty Cycle %, Duty Cycle Scaling Factor, Power Drift (dB), Measure 1g SAR (W/kg), Reported 1g SAR (W/kg). Rows include LTE Band 71 and LTE Band 12/13 data points.



FCC SAR Test Report

Report No. : FA2N1810

Table with columns for test parameters (FR1 n14, 10M, QPSK, etc.) and SAR values. Includes rows for GSM850, WCDMA V, and LTE Band 26. A yellow highlight is present on row 07, column 20 (value 0.736).



FCC SAR Test Report

Report No. : FA2N1810

Table with columns for LTE Band, Modulation, Power, Frequency, Location, Antenna, and SAR values. Includes rows for LTE Bands 26, 5B, 66 and FR1 n26, and a section for WCDMA IV at 1750MHZ.



Table with columns for LTE Band, Frequency, Modulation, Power, Location, etc. containing SAR test results for various bands and antennas.



FCC SAR Test Report

Report No. : FA2N1810

Table with columns for test parameters (FR1 n66, 40M, QPSK, 108, 54, DFT-15, Left Cheek, 0mm, Ant 4, DSI 2, 349000, 1745, 1, 18.92, 20.00, 1.282, -, -, 0.05, 0.355, 0.455) and rows for various test conditions (GSM1900, WCDMA II, LTE Band 25, FR1 n25).



FCC SAR Test Report

Report No. : FA2N1810

Table with columns for test parameters (FR1 n25, 40M, QPSK, etc.) and SAR values. Includes sections for 2300MHZ and 2600MHZ bands.



FCC SAR Test Report

Report No. : FA2N1810

Table with columns for Band, Power, Modulation, Frequency, Position, etc. Includes rows for LTE Band 7, LTE Band 41, and FR1 n7.



FCC SAR Test Report

Report No. : FA2N1810

Table with columns for device model (FR1 n41), power (100M), modulation (QPSK), frequency (137), bandwidth (DFT-30), location (Left/Right Tilted/Cheek), antenna (0mm), antenna type (Ant 1/2/4), DSI type (DSI 2), frequency range (518598-2592.99), and SAR values (1, 20.01, 21.00, 1.256, etc.).



FCC SAR Test Report

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FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 1	DSI 2	6333323499.98	1	23.15	24.00	1.216	-	-	-	n/a	n/a	
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 1	DSI 2	6333323499.98	1	23.15	24.00	1.216	-	-	-	n/a	n/a	
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 2	656000	3840	1	22.23	23.00	1.194	-	-	-0.15	0.202	0.241
FR1 n77_PC2 partO	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 2	656000	3840	1	24.37	26.00	1.455	50	1.000	0.03	0.158	0.230
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	DSI 2	656000	3840	1	22.23	23.00	1.194	-	-	0.05	0.069	0.082
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	DSI 2	656000	3840	1	22.23	23.00	1.194	-	-	0.18	0.061	0.073
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	DSI 2	656000	3840	1	22.23	23.00	1.194	-	-	0.02	0.037	0.044
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	DSI 2	656000	3840	1	21.81	23.00	1.315	-	-	0.01	0.172	0.226
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 2	DSI 2	656000	3840	1	21.81	23.00	1.315	-	-	0.19	0.035	0.046
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 2	DSI 2	656000	3840	1	21.81	23.00	1.315	-	-	-	n/a	n/a
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 2	DSI 2	656000	3840	1	21.81	23.00	1.315	-	-	-	n/a	n/a
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 2	6333323499.98	1	21.86	23.00	1.300	-	-	0.13	0.188	0.244	
FR1 n77_PC2 part 27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 2	6333323499.98	1	24.70	26.00	1.349	50	1.000	-0.02	0.169	0.228	
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	DSI 2	6333323499.98	1	21.86	23.00	1.300	-	-	-0.1	0.044	0.057	
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	DSI 2	6333323499.98	1	21.86	23.00	1.300	-	-	-	n/a	n/a	
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	DSI 2	6333323499.98	1	21.86	23.00	1.300	-	-	-	n/a	n/a	
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	DSI 2	6333323499.98	1	21.44	23.00	1.432	-	-	0.11	0.161	0.231	
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 2	DSI 2	6333323499.98	1	21.44	23.00	1.432	-	-	0.14	0.042	0.060	
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 2	DSI 2	6333323499.98	1	21.44	23.00	1.432	-	-	-	n/a	n/a	
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 2	DSI 2	6333323499.98	1	21.44	23.00	1.432	-	-	-	n/a	n/a	
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 2	656000	3840	1	22.25	23.00	1.189	-	-	-0.1	0.297	0.353
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 2	656000	3840	1	22.25	23.00	1.189	-	-	0.07	0.105	0.125
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	1	22.25	23.00	1.189	-	-	-0.09	0.498	0.592
FR1 n77_PC2 partO	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	1	24.61	26.00	1.377	50	1.000	-0.03	0.442	0.609
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 2	656000	3840	1	22.25	23.00	1.189	-	-	-0.11	0.145	0.172
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 2	656000	3840	1	21.76	23.00	1.330	-	-	-0.07	0.219	0.291
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 2	656000	3840	1	21.76	23.00	1.330	-	-	-0.08	0.080	0.106
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	1	21.76	23.00	1.330	-	-	-0.03	0.262	0.349
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 2	656000	3840	1	21.76	23.00	1.330	-	-	-0.14	0.115	0.153
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 2	6333323499.98	1	22.55	23.00	1.109	-	-	-0.05	0.108	0.120	
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 2	6333323499.98	1	22.55	23.00	1.109	-	-	-0.01	0.075	0.083	
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 2	6333323499.98	1	22.55	23.00	1.109	-	-	0.08	0.203	0.225	
FR1 n77 part 27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 2	6333323499.98	1	22.55	23.00	1.109	-	-	-0.05	0.124	0.138	
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 2	6333323499.98	1	22.07	23.00	1.239	-	-	0.12	0.146	0.181	
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 2	6333323499.98	1	22.07	23.00	1.239	-	-	-0.15	0.092	0.114	
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 2	6333323499.98	1	22.07	23.00	1.239	-	-	0.08	0.261	0.323	
FR1 n77_PC2 part 27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 2	6333323499.98	1	24.32	26.00	1.472	50	1.000	-0.02	0.212	0.312	
FR1 n77 part 27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 2	6333323499.98	1	22.07	23.00	1.239	-	-	-0.09	0.147	0.182	



FCC SAR Test Report

Report No. : FA2N1810

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	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)	
2450MHZ																		
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 6	Standalone	11	2462	1	18.96	20.00	1.271	100	1.000	0.12	0.385	0.489	
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 6	Standalone	11	2462	1	18.96	20.00	1.271	100	1.000	-0.17	0.360	0.457	
29	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	11	2462	1	18.96	20.00	1.271	100	1.000	-0.12	0.930	1.182	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 6	Standalone	11	2462	1	18.96	20.00	1.271	100	1.000	-0.11	0.619	0.786	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	1	2412	1	18.42	20.00	1.439	100	1.000	0.05	0.726	1.045	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	6	2437	1	18.64	20.00	1.368	100	1.000	-0.17	0.849	1.161	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Simultaneous	11	2462	1	14.53	15.50	1.250	100	1.000	0.09	0.276	0.345	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 6	Simultaneous	11	2462	1	14.53	15.50	1.250	100	1.000	0.05	0.213	0.266	
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 6	Standalone/Simultaneous	0	2402	1	11.61	12.50	1.226	77.01	1.299	0.07	0.039	0.062	
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 6	Standalone/Simultaneous	0	2402	1	11.61	12.50	1.226	77.01	1.299	0.1	0.049	0.078	
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Standalone/Simultaneous	0	2402	1	11.61	12.50	1.226	77.01	1.299	0.15	0.050	0.080	
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 6	Standalone/Simultaneous	0	2402	1	11.61	12.50	1.226	77.01	1.299	-	n/a	n/a	
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Standalone/Simultaneous	39	2441	1	11.16	12.50	1.360	77.01	1.299	0.11	0.062	0.110	
30	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Standalone/Simultaneous	78	2480	1	10.80	12.50	1.478	77.01	1.299	0.02	0.105	0.202	
5000MHz-6000MHz																		
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 6	Standalone	54	5270	1	19.83	21.50	1.468	96.3	1.038	0.07	0.162	0.247	
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 6	Standalone	54	5270	1	19.83	21.50	1.468	96.3	1.038	-0.16	0.188	0.286	
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Standalone	54	5270	1	19.83	21.50	1.468	96.3	1.038	0.18	0.323	0.492	
31	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6	Standalone	54	5270	1	19.83	21.50	1.468	96.3	1.038	-0.06	0.640	0.975	
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6	Standalone	54	5270	2	19.83	21.50	1.468	96.3	1.038	0.05	0.551	0.839	
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6	Standalone	62	5310	1	19.79	21.00	1.321	96.3	1.038	0.07	0.462	0.634	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Simultaneous	58	5290	1	16.09	17.50	1.384	92.98	1.076	-0.13	0.280	0.417	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Simultaneous	58	5290	1	16.09	17.50	1.384	92.98	1.076	0.07	0.132	0.197	
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 6	Standalone	126	5630	1	20.35	21.50	1.302	96.3	1.038	-0.03	0.185	0.250	
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 6	Standalone	126	5630	1	20.35	21.50	1.302	96.3	1.038	-0.1	0.196	0.265	
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Standalone	126	5630	1	20.35	21.50	1.302	96.3	1.038	-0.18	0.337	0.455	
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6	Standalone	126	5630	1	20.35	21.50	1.302	96.3	1.038	0.11	0.241	0.326	
32	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Standalone	102	5510	1	19.73	21.50	1.502	96.3	1.038	0.16	0.390	0.608	
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Standalone	110	5550	1	20.12	21.50	1.373	96.3	1.038	-0.04	0.357	0.509	
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Standalone	134	5670	1	19.85	21.50	1.461	96.3	1.038	0.14	0.310	0.470	
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Standalone	142	5710	1	19.36	21.00	1.457	96.3	1.038	-0.13	0.299	0.452	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Simultaneous	122	5610	1	17.66	19.00	1.363	92.98	1.076	-0.17	0.258	0.378	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Simultaneous	138	5690	1	17.59	19.00	1.385	92.98	1.076	-0.15	0.205	0.305	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Simultaneous	106	5530	1	17.58	19.00	1.387	92.98	1.076	-0.08	0.209	0.312	
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 6	Standalone	159	5795	1	19.81	21.50	1.474	96.3	1.038	-0.04	0.199	0.305	
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 6	Standalone	159	5795	1	19.81	21.50	1.474	96.3	1.038	0.07	0.187	0.286	
33	WLAN5.8GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Standalone	159	5795	1	19.81	21.50	1.474	96.3	1.038	-0.17	0.386	0.591	
	WLAN5.8GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6	Standalone	159	5795	1	19.81	21.50	1.474	96.3	1.038	-0.1	0.294	0.450	
	WLAN5.8GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Standalone	151	5755	1	19.34	21.00	1.464	96.3	1.038	-0.01	0.303	0.461	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Simultaneous	155	5775	1	17.60	19.00	1.380	92.98	1.076	0.18	0.215	0.319	



16.2 Hotspot SAR

Table with columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Antenna, Power State, Ch., Freq. (MHz), Sample, 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). Rows include LTE Bands 71, 12, and 13 with various test configurations and SAR values.



FCC SAR Test Report

Report No. : FA2N1810

Table with columns for Band, Power, Modulation, Frequency, Duty Cycle, Position, Antenna, Simulation, Power Density, and SAR values. Includes rows for LTE Bands 14 and FR1 n71, n12, n14.



FCC SAR Test Report

Report No. : FA2N1810

Table with columns for device model (FR1 n66, GSM1900, WCDMA II, LTE Band 25), power (40M, 20M), modulation (QPSK), and various SAR metrics. Includes a 1900 MHz section and multiple rows for different antenna orientations and configurations.



FCC SAR Test Report

Report No. : FA2N1810

Table with columns for LTE/FR1 bands, frequencies, modulation schemes, parameters, and SAR values. Includes specific rows for 52 and 53 with highlighted values like 1.164 and 1.057.



FCC SAR Test Report

Report No. : FA2N1810

Table with columns for device model (FR1 n41_PC2, FR1 n41, LTE Band 48, etc.), power (100M, 20M, 40M), modulation (QPSK), frequency (137, 69, 0, 270), and various SAR metrics (DFT-30, Back, Front, Left Side, Right Side, Top Side, 5mm, Ant 5, DSIS Sim, etc.).



FCC SAR Test Report

Report No. : FA2N1810

Table with columns for device ID, power, modulation, frequency, time, location, antenna, etc. Row 61 is highlighted with a yellow background.



FCC SAR Test Report

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FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 8	DS13 Sim	656000	3840	1	13.86	15.50	1.459	-	-	-0.13	0.046	0.067
FR1 n77	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 8	DS13 Sim	656000	3840	1	13.59	15.50	1.552	-	-	0.12	0.307	0.477
FR1 n77	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	DS13 Sim	633332	3499.98	1	14.79	15.50	1.178	-	-	-	n/a	n/a
FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	DS13 Sim	633332	3499.98	1	14.79	15.50	1.178	-	-	0.16	0.193	0.227
FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 8	DS13 Sim	633332	3499.98	1	14.79	15.50	1.178	-	-	0.17	0.109	0.128
FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 8	DS13 Sim	633332	3499.98	1	14.79	15.50	1.178	-	-	-	n/a	n/a
FR1 n77	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	DS13 Sim	633332	3499.98	1	14.77	15.50	1.183	-	-	-	n/a	n/a
FR1 n77	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	DS13 Sim	633332	3499.98	1	14.77	15.50	1.183	-	-	0.01	0.204	0.241
FR1 n77_PC2	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	DS13 Sim	633332	3499.98	1	17.99	18.50	1.125	50	1.000	0.01	0.202	0.227
FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 8	DS13 Sim	633332	3499.98	1	14.77	15.50	1.183	-	-	-0.18	0.104	0.123
FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 8	DS13 Sim	633332	3499.98	1	14.77	15.50	1.183	-	-	-	n/a	n/a

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	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)	
2450MHZ																		
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6	Simultaneous	11	2462	1	13.23	14.00	1.194	100	1.000	-0.11	0.088	0.105	
62	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	Simultaneous	11	2462	1	13.23	14.00	1.194	100	1.000	0.02	0.282	0.337	
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 6	Simultaneous	11	2462	1	13.23	14.00	1.194	100	1.000	0.09	0.094	0.112	
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 6	Simultaneous	11	2462	1	13.23	14.00	1.194	100	1.000	-0.14	0.140	0.167	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	Simultaneous	1	2412	1	12.63	14.00	1.371	100	1.000	0.13	0.166	0.228	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	Simultaneous	6	2437	1	13.17	14.00	1.211	100	1.000	0.17	0.231	0.280	
	Bluetooth	DH5 1Mbps	Front	5mm	Ant 6	Standalone/Simultaneous	0	2402	1	11.61	12.50	1.226	77.01	1.299	-	n/a	n/a	
63	Bluetooth	DH5 1Mbps	Back	5mm	Ant 6	Standalone/Simultaneous	0	2402	1	11.61	12.50	1.226	77.01	1.299	-0.02	0.088	0.140	
	Bluetooth	DH5 1Mbps	Right Side	5mm	Ant 6	Standalone/Simultaneous	0	2402	1	11.61	12.50	1.226	77.01	1.299	-	n/a	n/a	
	Bluetooth	DH5 1Mbps	Top Side	5mm	Ant 6	Standalone/Simultaneous	0	2402	1	11.61	12.50	1.226	77.01	1.299	-0.12	0.071	0.113	
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 6	Standalone/Simultaneous	39	2441	1	11.16	12.50	1.361	77.01	1.299	0.03	0.076	0.134	
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 6	Standalone/Simultaneous	78	2480	1	10.80	12.50	1.478	77.01	1.299	0.17	0.072	0.138	
5000MHz-6000MHz																		
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Simultaneous	42	5210	1	10.94	12.50	1.432	92.98	1.076	0.01	0.036	0.055	
64	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Simultaneous	42	5210	1	10.94	12.50	1.432	92.98	1.076	-0.11	0.220	0.339	
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 6	Simultaneous	42	5210	1	10.94	12.50	1.432	92.98	1.076	-0.02	0.077	0.118	
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 6	Simultaneous	42	5210	1	10.94	12.50	1.432	92.98	1.076	0.04	0.152	0.234	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Simultaneous	155	5775	1	11.44	13.00	1.432	92.98	1.076	0.11	0.036	0.055	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Simultaneous	155	5775	1	11.44	13.00	1.432	92.98	1.076	0.03	0.220	0.339	
65	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 6	Simultaneous	155	5775	1	11.44	13.00	1.432	92.98	1.076	-0.11	0.230	0.354	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 6	Simultaneous	155	5775	2	11.44	13.00	1.432	92.98	1.076	0.02	0.218	0.336	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 6	Simultaneous	155	5775	1	11.44	13.00	1.432	92.98	1.076	0.12	0.152	0.234	



16.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Sample	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)	
750MHZ																							
66	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3/3 Sim	133297	680.5	1	23.23	24.00	1.194	-	-	-0.17	0.381	0.455	
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	133297	680.5	1	23.23	24.00	1.194	-	-	0.09	0.663	0.792	
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3/3 Sim	133297	680.5	1	22.10	23.00	1.230	-	-	-0.06	0.226	0.278	
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	133297	680.5	1	22.10	23.00	1.230	-	-	0.11	0.373	0.459	
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3/3 Sim	133297	680.5	1	22.99	24.00	1.262	-	-	-0.11	0.086	0.109	
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3/3 Sim	133297	680.5	1	22.99	24.00	1.262	-	-	0.13	0.198	0.250	
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	DSI3/3 Sim	133297	680.5	1	22.03	23.00	1.250	-	-	0.09	0.074	0.093	
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3/3 Sim	133297	680.5	1	22.03	23.00	1.250	-	-	0.03	0.178	0.223	
67	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3/3 Sim	23095	707.5	1	23.14	24.00	1.219	-	-	0.11	0.368	0.449	
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	23095	707.5	1	23.14	24.00	1.219	-	-	0.04	0.637	0.776	
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI3/3 Sim	23095	707.5	1	22.19	23.00	1.205	-	-	0.13	0.232	0.280	
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	23095	707.5	1	22.19	23.00	1.205	-	-	0.09	0.431	0.519	
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3	23095	707.5	1	22.82	24.00	1.312	-	-	0.18	0.224	0.294	
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	23095	707.5	1	22.82	24.00	1.312	-	-	-0.06	0.865	1.135	
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	23060	704	1	22.73	24.00	1.340	-	-	0.05	0.835	1.119	
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	23130	711	1	22.74	24.00	1.337	-	-	0.08	0.813	1.087	
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 4	-	DSI3	23095	707.5	1	21.81	23.00	1.315	-	-	0.01	0.134	0.176	
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 4	-	DSI3	23095	707.5	1	21.81	23.00	1.315	-	-	-0.11	0.536	0.705	
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3	23095	707.5	1	21.76	23.00	1.330	-	-	-0.17	0.525	0.698	
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3 Sim	23095	707.5	1	22.24	23.50	1.337	-	-	0.09	0.141	0.188	
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3 Sim	23095	707.5	1	22.24	23.50	1.337	-	-	0.05	0.720	0.962	
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3 Sim	23060	704	1	22.21	23.50	1.346	-	-	0.03	0.657	0.884	
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3 Sim	23130	711	1	22.17	23.50	1.358	-	-	-0.08	0.684	0.929	
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 4	-	DSI3 Sim	23095	707.5	1	21.87	23.00	1.297	-	-	0.02	0.129	0.167	
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 4	-	DSI3 Sim	23095	707.5	1	21.87	23.00	1.297	-	-	-0.12	0.561	0.728	
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3 Sim	23095	707.5	1	21.83	23.00	1.309	-	-	0.09	0.532	0.696	
	68	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3/3 Sim	23230	782	1	21.67	22.50	1.211	-	-	-0.18	0.346	0.419
		LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	23230	782	1	21.67	22.50	1.211	-	-	-0.09	0.814	0.985
LTE Band 13		10M	QPSK	1	0	-	Front	15mm	Ant 0	-	DSI4	23230	782	1	23.02	24.00	1.253	-	-	0.05	0.326	0.409	
LTE Band 13		10M	QPSK	1	0	-	Back	23mm	Ant 0	-	DSI4	23230	782	1	23.02	24.00	1.253	-	-	0.01	0.333	0.417	
LTE Band 13		10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI3/3 Sim	23230	782	1	21.62	22.50	1.225	-	-	0.12	0.324	0.397	
LTE Band 13		10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	23230	782	1	21.62	22.50	1.225	-	-	-0.17	0.781	0.956	
LTE Band 13		10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	23230	782	1	21.65	22.50	1.216	-	-	-0.06	0.764	0.929	
LTE Band 13		10M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3	23230	782	1	23.33	24.00	1.167	-	-	0.09	0.332	0.387	
LTE Band 13		10M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	23230	782	1	23.33	24.00	1.167	-	-	0.02	0.859	1.002	
LTE Band 13		10M	QPSK	1	0	-	Front	15mm	Ant 4	-	DSI4	23230	782	1	23.33	24.00	1.167	-	-	0.11	0.245	0.286	
LTE Band 13		10M	QPSK	1	0	-	Back	23mm	Ant 4	-	DSI4	23230	782	1	23.33	24.00	1.167	-	-	0.05	0.262	0.306	
LTE Band 13		10M	QPSK	25	0	-	Front	5mm	Ant 4	-	DSI3	23230	782	1	21.74	23.00	1.337	-	-	0.11	0.287	0.384	
LTE Band 13		10M	QPSK	25	0	-	Back	5mm	Ant 4	-	DSI3	23230	782	1	21.74	23.00	1.337	-	-	0.04	0.696	0.930	
LTE Band 13		10M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3	23230	782	1	21.67	23.00	1.358	-	-	0.13	0.660	0.896	
LTE Band 13		10M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3 Sim	23230	782	1	21.79	22.50	1.178	-	-	0.09	0.220	0.259	
LTE Band 13		10M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3 Sim	23230	782	1	21.79	22.50	1.178	-	-	0.02	0.696	0.820	
LTE Band 13		10M	QPSK	25	0	-	Front	5mm	Ant 4	-	DSI3 Sim	23230	782	1	21.75	22.50	1.189	-	-	0.11	0.215	0.256	
LTE Band 13		10M	QPSK	25	0	-	Back	5mm	Ant 4	-	DSI3 Sim	23230	782	1	21.75	22.50	1.189	-	-	0.04	0.646	0.768	
LTE Band 13		10M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3 Sim	23230	782	1	21.61	22.50	1.227	-	-	0.13	0.606	0.744	
LTE Band 14		10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3/3 Sim	23330	793	1	21.64	22.50	1.219	-	-	0.06	0.412	0.502	
LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	23330	793	1	21.64	22.50	1.219	-	-	-0.12	0.824	1.004		
LTE Band 14	10M	QPSK	1	0	-	Front	15mm	Ant 0	-	DSI4	23330	793	1	22.99	24.00	1.262	-	-	0.05	0.361	0.456		
LTE Band 14	10M	QPSK	1	0	-	Back	23mm	Ant 0	-	DSI4	23330	793	1	22.99	24.00	1.262	-	-	-0.09	0.377	0.476		
LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI3/3 Sim	23330	793	1	21.63	22.50	1.222	-	-	-0.18	0.399	0.487		



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	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	23330	793	1	21.63	22.50	1.222	-	-	0.01	0.765	0.935
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	23330	793	1	21.57	22.50	1.239	-	-	-0.17	0.756	0.937
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3	23330	793	1	22.73	24.00	1.340	-	-	-0.11	0.318	0.426
69	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	23330	793	1	22.73	24.00	1.340	-	-	0.13	0.818	1.096
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 4	-	DSI3	23330	793	1	21.85	23.00	1.303	-	-	0.09	0.216	0.281
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 4	-	DSI3	23330	793	1	21.85	23.00	1.303	-	-	-0.17	0.577	0.752
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3	23330	793	1	21.71	23.00	1.346	-	-	0.11	0.568	0.764
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3 Sim	23330	793	1	22.32	23.50	1.312	-	-	-0.11	0.218	0.286
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3 Sim	23330	793	1	22.32	23.50	1.312	-	-	0.13	0.662	0.869
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 4	-	DSI3 Sim	23330	793	1	21.77	23.00	1.327	-	-	0.09	0.180	0.239
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 4	-	DSI3 Sim	23330	793	1	21.77	23.00	1.327	-	-	-0.17	0.585	0.777
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3 Sim	23330	793	1	21.63	23.00	1.371	-	-	0.11	0.566	0.776
	FR1 n71	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3/3 Sim	136100	680.5	1	23.20	24.00	1.202	-	-	-0.18	0.145	0.174
70	FR1 n71	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3/3 Sim	136100	680.5	1	23.20	24.00	1.202	-	-	0.01	0.270	0.325
	FR1 n71	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	-	DSI3/3 Sim	136100	680.5	1	22.99	24.00	1.262	-	-	0.12	0.120	0.151
	FR1 n71	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	-	DSI3/3 Sim	136100	680.5	1	22.99	24.00	1.262	-	-	-0.17	0.218	0.275
	FR1 n71	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 4	-	DSI3/3 Sim	136100	680.5	1	23.12	24.00	1.225	-	-	0.18	0.088	0.108
	FR1 n71	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	-	DSI3/3 Sim	136100	680.5	1	23.12	24.00	1.225	-	-	-0.06	0.205	0.251
	FR1 n71	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 4	-	DSI3/3 Sim	136100	680.5	1	22.95	24.00	1.274	-	-	0.01	0.079	0.101
	FR1 n71	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 4	-	DSI3/3 Sim	136100	680.5	1	22.95	24.00	1.274	-	-	-0.11	0.183	0.233
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3/3 Sim	141500	707.5	1	23.12	24.00	1.225	-	-	-0.17	0.300	0.367
71	FR1 n12	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3/3 Sim	141500	707.5	1	23.12	24.00	1.225	-	-	0.09	0.455	0.557
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 0	-	DSI3/3 Sim	141500	707.5	1	22.81	24.00	1.315	-	-	-0.06	0.257	0.338
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 0	-	DSI3/3 Sim	141500	707.5	1	22.81	24.00	1.315	-	-	0.11	0.356	0.468
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 4	-	DSI3/3 Sim	141500	707.5	1	23.13	24.00	1.222	-	-	-0.11	0.092	0.112
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	-	DSI3/3 Sim	141500	707.5	1	23.13	24.00	1.222	-	-	0.13	0.363	0.444
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 4	-	DSI3/3 Sim	141500	707.5	1	22.81	24.00	1.315	-	-	0.09	0.116	0.153
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 4	-	DSI3/3 Sim	141500	707.5	1	22.81	24.00	1.315	-	-	0.02	0.422	0.555
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3/3 Sim	158600	793	1	22.48	23.00	1.127	-	-	0.11	0.481	0.542
72	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3/3 Sim	158600	793	1	22.48	23.00	1.127	-	-	-0.08	0.946	1.066
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	-	DSI4	158600	793	1	23.31	24.00	1.172	-	-	0.13	0.315	0.369
	FR1 n14	10M	QPSK	1	1	DFT-15	Back	23mm	Ant 0	-	DSI4	158600	793	1	23.31	24.00	1.172	-	-	-0.01	0.298	0.349
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 0	-	DSI3/3 Sim	158600	793	1	22.37	23.00	1.156	-	-	0.13	0.474	0.548
	FR1 n14	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 0	-	DSI3/3 Sim	158600	793	1	22.37	23.00	1.156	-	-	0.09	0.903	1.044
	FR1 n14	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 0	-	DSI3/3 Sim	158600	793	1	22.29	23.00	1.178	-	-	-0.18	0.865	1.019
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 4	-	DSI3/3 Sim	158600	793	1	23.17	24.00	1.211	-	-	0.06	0.224	0.271
	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	-	DSI3/3 Sim	158600	793	1	23.17	24.00	1.211	-	-	-0.12	0.584	0.707
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 4	-	DSI3/3 Sim	158600	793	1	23.12	24.00	1.225	-	-	-0.18	0.202	0.247
	FR1 n14	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 4	-	DSI3/3 Sim	158600	793	1	23.12	24.00	1.225	-	-	0.13	0.557	0.682
835MHZ																						
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	5mm	Ant 0	-	DSI3	189	836.4	1	28.39	29.00	1.151	-	-	0.03	0.534	0.615
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 0	-	DSI3	189	836.4	1	28.39	29.00	1.151	-	-	0.08	0.954	1.098
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 0	-	DSI3	128	824.2	1	28.36	29.00	1.159	-	-	0.05	0.975	1.130
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 0	-	DSI3	251	848.8	1	28.34	29.00	1.164	-	-	-0.04	1.010	1.176
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	15mm	Ant 0	-	DSI4	189	836.4	1	30.85	31.50	1.161	-	-	-0.13	0.135	0.157
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	23mm	Ant 0	-	DSI4	251	848.8	1	30.59	31.50	1.233	-	-	-0.05	0.091	0.112
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	5mm	Ant 0	-	DSI3 Sim	189	836.4	1	27.68	28.50	1.208	-	-	-0.06	0.453	0.547
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 0	-	DSI3 Sim	189	836.4	1	27.68	28.50	1.208	-	-	-0.06	0.675	0.815
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 0	-	DSI3 Sim	128	824.2	1	27.64	28.50	1.219	-	-	-0.03	0.643	0.784
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 0	-	DSI3 Sim	251	848.8	1	27.62	28.50	1.225	-	-	0.02	0.682	0.835
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	5mm	Ant 4	-	DSI3	189	836.4	1	29.79	30.50	1.178	-	-	-0.01	0.336	0.396
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 4	-	DSI3	189	836.4	1	29.79	30.50	1.178	-	-	-0.08	0.692	0.815
73	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 4	-	DSI3	128	824.2	1	29.36	30.50	1.300	-	-	0.14	0.947	1.231
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 4	-	DSI3	128	824.2	2	29.36	30.50	1.300	-	-	0.05	0.504	0.655
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 4	-	DSI3	251	848.8	1	29.47	30.50	1.268	-	-	-0.1	0.753	0.955
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 4	Headset	DSI3	128	824.2	1	29.36	30.50	1.300	-	-	0.14	0.841	1.093



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	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	15mm	Ant 4	-	DSI4	189	836.4	1	30.67	31.50	1.211	-	-	-0.15	0.140	0.169
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	23mm	Ant 4	-	DSI4	128	824.2	1	30.42	31.50	1.282	-	-	0.08	0.120	0.154
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	5mm	Ant 4	-	DSI3 Sim	189	836.4	1	27.97	29.00	1.268	-	-	-0.01	0.391	0.496
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 4	-	DSI3 Sim	189	836.4	1	27.97	29.00	1.268	-	-	-0.08	0.702	0.890
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 4	-	DSI3 Sim	128	824.2	1	27.96	29.00	1.271	-	-	0.14	0.739	0.939
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 4	-	DSI3 Sim	251	848.8	1	27.95	29.00	1.274	-	-	-0.1	0.699	0.890
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3/3 Sim	4182	836.4	1	20.73	21.40	1.167	-	-	0.03	0.328	0.383
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3/3 Sim	4182	836.4	1	20.73	21.40	1.167	-	-	0.02	0.789	0.921
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3/3 Sim	4132	826.4	1	20.64	21.40	1.191	-	-	0.02	0.742	0.884
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3/3 Sim	4233	846.6	1	20.58	21.40	1.208	-	-	-0.11	0.878	1.060
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	-	DSI4	4182	836.4	1	23.45	24.00	1.135	-	-	-0.11	0.116	0.132
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	23mm	Ant 0	-	DSI4	4233	846.6	1	23.42	24.00	1.143	-	-	0.05	0.106	0.121
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 4	-	DSI3	4182	836.4	1	22.59	23.50	1.233	-	-	0.15	0.347	0.428
74	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 4	-	DSI3	4182	836.4	1	22.59	23.50	1.233	-	-	-0.06	0.914	1.127
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 4	-	DSI3	4132	826.4	1	22.48	23.50	1.265	-	-	0.11	0.761	0.962
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 4	-	DSI3	4233	846.6	1	22.52	23.50	1.253	-	-	-0.11	0.673	0.843
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 4	-	DSI4	4182	836.4	1	22.98	24.00	1.265	-	-	0.05	0.185	0.234
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	23mm	Ant 4	-	DSI4	4182	836.4	1	22.98	24.00	1.265	-	-	-0.13	0.163	0.206
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 4	-	DSI3 Sim	4182	836.4	1	21.57	22.50	1.239	-	-	0.15	0.288	0.357
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 4	-	DSI3 Sim	4182	836.4	1	21.57	22.50	1.239	-	-	-0.18	0.708	0.877
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 4	-	DSI3 Sim	4132	826.4	1	21.46	22.50	1.271	-	-	0.11	0.633	0.804
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 4	-	DSI3 Sim	4233	846.6	1	21.54	22.50	1.247	-	-	-0.11	0.506	0.631
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3/3 Sim	26865	831.5	1	21.27	22.30	1.268	-	-	-0.15	0.386	0.489
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	26865	831.5	1	21.27	22.30	1.268	-	-	0.11	0.816	1.034
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	26765	821.5	1	21.21	22.30	1.285	-	-	-0.05	0.723	0.929
75	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	26965	841.5	1	21.25	22.30	1.274	-	-	-0.01	0.953	1.214
	LTE Band 5B	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	20575 20476	841.5 831.6	1	21.23	22.30	1.279	-	-	-0.05	0.813	1.040
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI3/3 Sim	26965	841.5	1	21.25	22.30	1.274	-	-	-0.01	0.832	1.060
	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 0	-	DSI4	26865	831.5	1	23.13	24.00	1.222	-	-	-0.15	0.347	0.424
	LTE Band 26	15M	QPSK	1	0	-	Back	23mm	Ant 0	-	DSI4	26965	841.5	1	23.01	24.00	1.256	-	-	0.11	0.153	0.192
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	-	DSI3/3 Sim	26865	831.5	1	21.17	22.30	1.297	-	-	-0.09	0.406	0.527
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	26865	831.5	1	21.17	22.30	1.297	-	-	0.03	0.856	1.110
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	26765	821.5	1	21.11	22.30	1.315	-	-	-0.01	0.784	1.031
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	26965	841.5	1	21.05	22.30	1.334	-	-	-0.12	0.832	1.109
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	-	DSI3/3 Sim	26865	831.5	1	21.13	22.30	1.309	-	-	0.11	0.862	1.129
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3	26865	831.5	1	21.90	23.20	1.349	-	-	0.18	0.316	0.426
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	26865	831.5	1	21.90	23.20	1.349	-	-	-0.1	0.709	0.956
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	26765	821.5	1	21.86	23.20	1.361	-	-	0.05	0.824	1.122
	LTE Band 5B	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	20575 20476	841.5 831.6	1	21.86	23.20	1.361	-	-	0.03	0.732	0.997
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	26965	841.5	1	21.87	23.20	1.358	-	-	0.1	0.702	0.954
	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 4	-	DSI4	26865	831.5	1	22.82	24.00	1.312	-	-	0.05	0.241	0.316
	LTE Band 26	15M	QPSK	1	0	-	Back	23mm	Ant 4	-	DSI4	26765	821.5	1	22.79	24.00	1.321	-	-	-0.11	0.243	0.321
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 4	-	DSI3	26865	831.5	1	21.84	23.00	1.306	-	-	-0.12	0.304	0.397
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 4	-	DSI3	26865	831.5	1	21.84	23.00	1.306	-	-	0.17	0.668	0.873
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 4	-	DSI3	26765	821.5	1	21.77	23.00	1.327	-	-	-0.06	0.624	0.828
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 4	-	DSI3	26965	841.5	1	21.79	23.00	1.321	-	-	0.02	0.589	0.778
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 4	-	DSI3	26865	831.5	1	21.80	23.00	1.318	-	-	-0.02	0.648	0.854
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3 Sim	26865	831.5	1	20.77	22.00	1.327	-	-	0.18	0.247	0.328
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3 Sim	26865	831.5	1	20.77	22.00	1.327	-	-	-0.1	0.627	0.832
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3 Sim	26765	821.5	1	20.75	22.00	1.334	-	-	0.02	0.675	0.900
	LTE Band 5B	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3 Sim	20575 20476	841.5 831.6	1	20.71	22.00	1.346	-	-	0.05	0.632	0.851
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3 Sim	26965	841.5	1	20.72	22.00	1.343	-	-	0.1	0.560	0.752
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 4	-	DSI3 Sim	26865	831.5	1	20.66	22.00	1.361	-	-	-0.12	0.247	0.336
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 4	-	DSI3 Sim	26865	831.5	1	20.66	22.00	1.361	-	-	0.17	0.583	0.794
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 4	-	DSI3 Sim	26865	831.5	1	20.63	22.00	1.371	-	-	-0.02	0.488	0.669



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	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3/3 Sim	166300	831.5	1	21.42	22.00	1.143	-	-	0.01	0.518	0.592
76	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3/3 Sim	166300	831.5	1	21.42	22.00	1.143	-	-	0.08	0.986	1.127
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	-	DSI4	166300	831.5	1	23.23	24.00	1.194	-	-	0.09	0.259	0.309
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	23mm	Ant 0	-	DSI4	166300	831.5	1	23.23	24.00	1.194	-	-	-0.03	0.239	0.285
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	-	DSI3/3 Sim	166300	831.5	1	21.22	22.00	1.197	-	-	-0.12	0.383	0.458
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	-	DSI3/3 Sim	166300	831.5	1	21.22	22.00	1.197	-	-	-0.17	0.676	0.809
	FR1 n26	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 0	-	DSI3/3 Sim	166300	831.5	1	21.06	22.00	1.242	-	-	0.05	0.673	0.836
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 4	-	DSI3	166300	831.5	1	22.42	23.00	1.143	-	-	0.05	0.343	0.392
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	-	DSI3	166300	831.5	1	22.42	23.00	1.143	-	-	0.05	0.920	1.051
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 4	-	DSI4	166300	831.5	1	23.34	24.00	1.164	-	-	0.05	0.245	0.285
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	23mm	Ant 4	-	DSI4	166300	831.5	1	23.34	24.00	1.164	-	-	0.07	0.235	0.274
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 4	-	DSI3	166300	831.5	1	22.21	23.00	1.199	-	-	0.08	0.357	0.428
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 4	-	DSI3	166300	831.5	1	22.21	23.00	1.199	-	-	0.04	0.673	0.807
	FR1 n26	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 4	-	DSI3	166300	831.5	1	22.11	23.00	1.227	-	-	-0.12	0.626	0.768
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 4	-	DSI3 Sim	166300	831.5	1	21.49	22.00	1.125	-	-	-0.05	0.278	0.313
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	-	DSI3 Sim	166300	831.5	1	21.49	22.00	1.125	-	-	0.05	0.807	0.908
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 4	-	DSI3 Sim	166300	831.5	1	21.23	22.00	1.194	-	-	0.01	0.262	0.313
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 4	-	DSI3 Sim	166300	831.5	1	21.23	22.00	1.194	-	-	0.05	0.589	0.703
	FR1 n26	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 4	-	DSI3 Sim	166300	831.5	1	21.18	22.00	1.208	-	-	-0.1	0.565	0.682
1750MHZ																						
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3	1413	1732.6	1	18.28	19.00	1.180	-	-	0.11	0.866	1.022
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	1413	1732.6	1	18.28	19.00	1.180	-	-	-0.12	0.947	1.118
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3	1312	1712.4	1	18.02	19.00	1.253	-	-	-0.08	0.807	1.011
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3	1513	1752.6	1	18.27	19.00	1.183	-	-	-0.17	0.834	0.987
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	1312	1712.4	1	18.02	19.00	1.253	-	-	-0.08	0.688	0.862
77	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	1513	1752.6	1	18.27	19.00	1.183	-	-	-0.17	1.060	1.254
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI3	1513	1752.6	1	18.27	19.00	1.183	-	-	-0.17	0.935	1.106
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	-	DSI4	1413	1732.6	1	23.47	24.00	1.130	-	-	0.03	0.138	0.156
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	23mm	Ant 0	-	DSI4	1513	1752.6	1	23.44	24.00	1.138	-	-	-0.15	0.068	0.077
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3 Sim	1413	1732.6	1	16.75	17.50	1.189	-	-	0.11	0.582	0.692
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3 Sim	1413	1732.6	1	16.75	17.50	1.189	-	-	-0.12	0.607	0.721
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 4	-	DSI3	1413	1732.6	1	21.30	22.00	1.175	-	-	-0.08	0.462	0.543
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 4	-	DSI3	1413	1732.6	1	21.30	22.00	1.175	-	-	0.04	0.848	0.996
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 4	-	DSI3	1312	1712.4	1	21.12	22.00	1.225	-	-	0.11	0.815	0.998
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 4	-	DSI3	1513	1752.6	1	21.24	22.00	1.191	-	-	0.02	0.976	1.163
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 4	-	DSI4	1413	1732.6	1	23.54	24.00	1.112	-	-	0.03	0.241	0.268
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	23mm	Ant 4	-	DSI4	1513	1752.6	1	23.51	24.00	1.119	-	-	0.09	0.133	0.149
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 4	-	DSI3 Sim	1413	1732.6	1	18.83	19.50	1.167	-	-	-0.08	0.265	0.309
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 4	-	DSI3 Sim	1413	1732.6	1	18.83	19.50	1.167	-	-	0.04	0.530	0.618
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	132322	1745	1	17.19	18.00	1.205	-	-	-0.12	0.705	0.850
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	132322	1745	1	17.19	18.00	1.205	-	-	-0.17	0.778	0.938
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	132072	1720	1	17.01	18.00	1.256	-	-	-0.02	0.674	0.847
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	132572	1770	1	17.16	18.00	1.213	-	-	0.02	0.651	0.790
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	132072	1720	1	17.01	18.00	1.256	-	-	-0.02	0.605	0.760
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	132572	1770	1	17.16	18.00	1.213	-	-	0.02	0.966	1.172
	LTE Band 66B	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	132322 132229	1745 1735.7	1	17.11	18.00	1.227	-	-	0.05	0.832	1.021
	LTE Band 66C	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	132322 132124	1745 1725.2	1	17.21	18.00	1.199	-	-	0.07	0.851	1.021
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 0	-	DSI4	132322	1745	1	23.38	24.00	1.153	-	-	0.13	0.653	0.753
	LTE Band 66	20M	QPSK	1	0	-	Back	23mm	Ant 0	-	DSI4	132572	1770	1	23.26	24.00	1.186	-	-	0.05	0.438	0.519
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	132322	1745	1	17.15	18.00	1.216	-	-	0.14	0.709	0.862
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	132322	1745	1	17.15	18.00	1.216	-	-	-0.02	0.803	0.977
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	132072	1720	1	16.94	18.00	1.276	-	-	-0.17	0.637	0.813
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	132572	1770	1	17.11	18.00	1.227	-	-	-0.02	0.684	0.840
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	132072	1720	1	16.94	18.00	1.276	-	-	0.03	0.725	0.925
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	132572	1770	1	17.11	18.00	1.227	-	-	-0.08	0.759	0.932
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI3	132322	1745	1	17.08	18.00	1.236	-	-	-0.09	0.712	0.880



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	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI3	132322	1745	1	17.08	18.00	1.236	-	-	0.18	0.810	1.001
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3 Sim	132322	1745	1	16.34	17.00	1.164	-	-	-0.12	0.560	0.652
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3 Sim	132322	1745	1	16.34	17.00	1.164	-	-	-0.17	0.578	0.673
	LTE Band 66B	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3 Sim	132322 132229	1745 1735.7	1	16.09	17.00	1.233	-	-	0.05	0.513	0.633
	LTE Band 66C	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3 Sim	132322 132124	1745 1725.2	1	16.05	17.00	1.245	-	-	0.07	0.486	0.605
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3 Sim	132322	1745	1	16.15	17.00	1.216	-	-	0.14	0.576	0.701
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3 Sim	132322	1745	1	16.15	17.00	1.216	-	-	-0.02	0.588	0.715
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3	132322	1745	1	21.33	22.00	1.167	-	-	0.14	0.479	0.559
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	132322	1745	1	21.33	22.00	1.167	-	-	0.1	0.942	1.099
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	132072	1720	1	21.12	22.00	1.225	-	-	0.16	0.908	1.112
78	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	132572	1770	1	21.30	22.00	1.175	-	-	-0.07	1.040	1.222
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 4	Headset	DSI3	132572	1770	1	21.30	22.00	1.175	-	-	-0.07	0.945	1.110
	LTE Band 66B	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	132322 132229	1745 1735.7	1	21.17	22.00	1.211	-	-	0.08	0.702	0.850
	LTE Band 66C	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	132322 132124	1745 1725.2	1	21.22	22.00	1.197	-	-	0.05	0.684	0.819
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 4	-	DSI4	132322	1745	1	23.37	24.00	1.156	-	-	0.05	0.227	0.262
	LTE Band 66	20M	QPSK	1	0	-	Back	23mm	Ant 4	-	DSI4	132572	1770	1	23.35	24.00	1.161	-	-	-0.09	0.120	0.139
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	DSI3	132322	1745	1	21.30	22.00	1.175	-	-	-0.04	0.482	0.566
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3	132322	1745	1	21.30	22.00	1.175	-	-	0.09	0.899	1.056
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3	132072	1720	1	21.08	22.00	1.236	-	-	-0.04	0.853	1.054
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3	132572	1770	1	21.13	22.00	1.222	-	-	-0.03	0.875	1.069
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 4	-	DSI3	132322	1745	1	21.26	22.00	1.186	-	-	0.18	0.874	1.036
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3 Sim	132322	1745	1	18.84	19.50	1.164	-	-	0.14	0.268	0.312
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3 Sim	132322	1745	1	18.84	19.50	1.164	-	-	0.1	0.410	0.477
	LTE Band 66B	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3 Sim	132322 132229	1745 1735.7	1	18.55	19.50	1.245	-	-	0.05	0.384	0.478
	LTE Band 66C	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3 Sim	132322 132124	1745 1725.2	1	18.62	19.50	1.225	-	-	-0.04	0.403	0.494
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	DSI3 Sim	132322	1745	1	18.68	19.50	1.208	-	-	-0.04	0.258	0.312
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3 Sim	132322	1745	1	18.68	19.50	1.208	-	-	0.09	0.386	0.466
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3	340500	1702.5	1	20.47	21.00	1.130	-	-	0.18	0.674	0.761
79	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	340500	1702.5	1	20.47	21.00	1.130	-	-	0.04	1.110	1.254
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	340500	1702.5	2	20.47	21.00	1.130	-	-	0.05	0.902	1.019
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	Headset	DSI3	340500	1702.5	1	20.47	21.00	1.130	-	-	0.04	0.835	0.943
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	-	DSI4	340500	1702.5	1	23.38	24.00	1.153	-	-	-0.15	0.426	0.491
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	23mm	Ant 0	-	DSI4	340500	1702.5	1	23.38	24.00	1.153	-	-	0.03	0.202	0.233
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 0	-	DSI3	340500	1702.5	1	20.40	21.00	1.148	-	-	0.05	0.606	0.696
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 0	-	DSI3	340500	1702.5	1	20.40	21.00	1.148	-	-	0.02	0.653	0.750
	FR1 n70	15M	QPSK	75	0	DFT-15	Back	5mm	Ant 0	-	DSI3	340500	1702.5	1	20.31	21.00	1.172	-	-	-0.14	0.640	0.750
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3 Sim	340500	1702.5	1	18.44	19.00	1.138	-	-	0.18	0.535	0.609
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3 Sim	340500	1702.5	1	18.44	19.00	1.138	-	-	0.12	0.576	0.655
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 0	-	DSI3 Sim	340500	1702.5	1	18.32	19.00	1.169	-	-	0.05	0.581	0.679
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 0	-	DSI3 Sim	340500	1702.5	1	18.32	19.00	1.169	-	-	0.02	0.613	0.717
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 4	-	DSI3	340500	1702.5	1	21.20	22.00	1.202	-	-	0.17	0.468	0.563
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	-	DSI3	340500	1702.5	1	21.20	22.00	1.202	-	-	0.03	0.984	1.183
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	15mm	Ant 4	-	DSI4	340500	1702.5	1	23.30	24.00	1.175	-	-	-0.12	0.149	0.175
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	23mm	Ant 4	-	DSI4	340500	1702.5	1	23.30	24.00	1.175	-	-	0.05	0.088	0.103
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 4	-	DSI3	340500	1702.5	1	21.17	22.00	1.211	-	-	-0.07	0.451	0.546
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 4	-	DSI3	340500	1702.5	1	21.17	22.00	1.211	-	-	-0.08	0.984	1.191
	FR1 n70	15M	QPSK	75	0	DFT-15	Back	5mm	Ant 4	-	DSI3	340500	1702.5	1	21.08	22.00	1.236	-	-	0.03	0.880	1.088
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 4	-	DSI3 Sim	340500	1702.5	1	19.39	20.00	1.151	-	-	0.17	0.419	0.482
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	-	DSI3 Sim	340500	1702.5	1	19.39	20.00	1.151	-	-	0.12	0.662	0.762
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 4	-	DSI3 Sim	340500	1702.5	1	19.31	20.00	1.172	-	-	-0.07	0.269	0.315
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 4	-	DSI3 Sim	340500	1702.5	1	19.31	20.00	1.172	-	-	-0.08	0.469	0.550
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3	349000	1745	1	18.36	19.00	1.159	-	-	-0.01	0.787	0.912
80	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	349000	1745	1	18.36	19.00	1.159	-	-	0.05	1.080	1.251
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	Headset	DSI3	349000	1745	1	18.36	19.00	1.159	-	-	0.05	0.954	1.105
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	-	DSI4	349000	1745	1	23.39	24.00	1.151	-	-	0.07	0.610	0.702



	FR1 n66	40M	QPSK	1	1	DFT-15	Back	23mm	Ant 0	-	DSI4	349000	1745	1	23.39	24.00	1.151	-	-	0.02	0.295	0.339
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	-	DSI3	349000	1745	1	18.23	19.00	1.194	-	-	-0.06	0.768	0.917
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	DSI3	349000	1745	1	18.23	19.00	1.194	-	-	-0.04	1.020	1.218
	FR1 n66	40M	QPSK	216	0	DFT-15	Front	5mm	Ant 0	-	DSI3	349000	1745	1	18.19	19.00	1.205	-	-	0.05	0.766	0.923
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0	-	DSI3	349000	1745	1	18.19	19.00	1.205	-	-	-0.13	0.975	1.175
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3 Sim	349000	1745	1	17.45	18.00	1.135	-	-	-0.01	0.612	0.695
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3 Sim	349000	1745	1	17.45	18.00	1.135	-	-	0.05	0.692	0.785
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	-	DSI3 Sim	349000	1745	1	17.16	18.00	1.213	-	-	-0.06	0.573	0.695
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	DSI3 Sim	349000	1745	1	17.16	18.00	1.213	-	-	-0.04	0.746	0.905
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0	-	DSI3 Sim	349000	1745	1	17.11	18.00	1.227	-	-	-0.13	0.737	0.905
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 4	-	DSI3	349000	1745	1	20.19	21.00	1.205	-	-	0.15	0.415	0.500
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	-	DSI3	349000	1745	1	20.19	21.00	1.205	-	-	-0.09	0.911	1.098
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	15mm	Ant 4	-	DSI4	349000	1745	1	23.24	24.00	1.191	-	-	0.05	0.164	0.195
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	23mm	Ant 4	-	DSI4	349000	1745	1	23.24	24.00	1.191	-	-	0.01	0.091	0.108
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 4	-	DSI3	349000	1745	1	19.91	21.00	1.285	-	-	-0.1	0.458	0.589
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 4	-	DSI3	349000	1745	1	19.91	21.00	1.285	-	-	-0.14	0.712	0.915
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 4	-	DSI3	349000	1745	1	19.76	21.00	1.330	-	-	-0.09	0.734	0.977
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 4	-	DSI3 Sim	349000	1745	1	18.79	19.50	1.178	-	-	0.15	0.293	0.345
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	-	DSI3 Sim	349000	1745	1	18.79	19.50	1.178	-	-	-0.09	0.445	0.524
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 4	-	DSI3 Sim	349000	1745	1	18.48	19.50	1.265	-	-	-0.1	0.325	0.411
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 4	-	DSI3 Sim	349000	1745	1	18.48	19.50	1.265	-	-	-0.14	0.484	0.612
1900 MHZ																						
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Front	5mm	Ant 0	-	DSI3	810	1909.8	1	24.28	25.00	1.180	-	-	0.04	0.488	0.576
81	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 0	-	DSI3	810	1909.8	1	24.28	25.00	1.180	-	-	-0.14	1.030	1.216
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 0	-	DSI3	512	1850.2	1	24.03	25.00	1.250	-	-	0.17	0.892	1.115
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 0	-	DSI3	661	1880	1	24.15	25.00	1.216	-	-	0.02	0.862	1.048
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 0	Headset	DSI3	810	1909.8	1	24.28	25.00	1.180	-	-	-0.14	0.654	0.772
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Front	15mm	Ant 0	-	DSI4	810	1909.8	1	27.91	28.50	1.146	-	-	-0.03	0.078	0.089
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	23mm	Ant 0	-	DSI4	810	1909.8	1	27.91	28.50	1.146	-	-	0.12	0.044	0.050
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Front	5mm	Ant 0	-	DSI3 Sim	810	1909.8	1	22.56	23.50	1.242	-	-	0.04	0.341	0.423
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 0	-	DSI3 Sim	810	1909.8	1	22.56	23.50	1.242	-	-	-0.14	0.710	0.882
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 0	-	DSI3 Sim	512	1850.2	1	22.55	23.50	1.245	-	-	0.17	0.654	0.814
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 0	-	DSI3 Sim	661	1880	1	22.51	23.50	1.256	-	-	0.02	0.627	0.788
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Front	5mm	Ant 4	-	DSI3	810	1909.8	1	24.75	25.50	1.189	-	-	0.1	0.607	0.721
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 4	-	DSI3	810	1909.8	1	24.75	25.50	1.189	-	-	0.08	0.938	1.115
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 4	-	DSI3	512	1850.2	1	24.28	25.50	1.324	-	-	-0.01	0.382	0.506
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 4	-	DSI3	661	1880	1	24.66	25.50	1.213	-	-	0.06	0.583	0.707
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Front	15mm	Ant 4	-	DSI4	810	1909.8	1	26.86	27.50	1.159	-	-	0.08	0.210	0.243
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	23mm	Ant 4	-	DSI4	810	1909.8	1	26.86	27.50	1.159	-	-	-0.12	0.126	0.146
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Front	5mm	Ant 4	-	DSI3 Sim	810	1909.8	1	22.63	23.50	1.222	-	-	0.1	0.359	0.439
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 4	-	DSI3 Sim	810	1909.8	1	22.63	23.50	1.222	-	-	0.05	0.418	0.511
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3	9400	1880	1	17.47	18.00	1.130	-	-	0.1	0.593	0.670
82	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	9400	1880	1	17.47	18.00	1.130	-	-	0.05	1.040	1.175
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	9262	1852.4	1	17.46	18.00	1.132	-	-	-0.09	0.830	0.940
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	9538	1907.6	1	17.45	18.00	1.135	-	-	0.04	1.000	1.135
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	-	DSI4	9400	1880	1	23.30	24.00	1.175	-	-	-0.03	0.081	0.095
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	23mm	Ant 0	-	DSI4	9400	1880	1	23.30	24.00	1.175	-	-	-0.02	0.063	0.074
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3 Sim	9400	1880	1	16.32	17.00	1.169	-	-	0.1	0.419	0.490
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3 Sim	9400	1880	1	16.32	17.00	1.169	-	-	0.05	0.635	0.743
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 4	-	DSI3	9400	1880	1	17.25	18.00	1.189	-	-	0.11	0.491	0.584
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 4	-	DSI3	9400	1880	1	17.25	18.00	1.189	-	-	0.17	0.883	1.049
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 4	-	DSI3	9262	1852.4	1	17.23	18.00	1.194	-	-	0.02	0.652	0.778
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 4	-	DSI3	9538	1907.6	1	17.04	18.00	1.247	-	-	0.07	0.896	1.118
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 4	-	DSI4	9400	1880	1	23.09	24.00	1.233	-	-	-0.02	0.540	0.666
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	23mm	Ant 4	-	DSI4	9538	1907.6	1	22.71	24.00	1.346	-	-	-0.16	0.323	0.435
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 4	-	DSI3 Sim	9400	1880	1	14.81	15.50	1.172	-	-	0.11	0.275	0.322



FCC SAR Test Report

Report No. : FA2N1810

	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 4	-	DSI3 Sim	9400	1880	1	14.81	15.50	1.172	-	-	0.17	0.564	0.661
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	26340	1880	1	16.05	16.90	1.216	-	-	-0.03	0.435	0.529
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	26340	1880	1	16.05	16.90	1.216	-	-	-0.11	0.716	0.871
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	26140	1860	1	15.95	16.90	1.245	-	-	0.09	0.430	0.535
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	26590	1905	1	15.96	16.90	1.242	-	-	-0.01	0.865	1.074
	LTE Band 25	20M	QPSK	1	0	-	Front	15mm	Ant 0	-	DSI4	26340	1880	1	23.35	24.00	1.161	-	-	0.11	0.460	0.534
	LTE Band 25	20M	QPSK	1	0	-	Back	23mm	Ant 0	-	DSI4	26590	1905	1	23.23	24.00	1.194	-	-	0.08	0.360	0.430
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	26340	1880	1	15.97	16.90	1.239	-	-	0.08	0.442	0.548
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	26340	1880	1	15.97	16.90	1.239	-	-	-0.11	0.754	0.934
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	26140	1860	1	15.85	16.90	1.274	-	-	0.18	0.635	0.809
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	26590	1905	1	15.90	16.90	1.259	-	-	0.05	0.705	0.888
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI3	26340	1880	1	15.92	16.90	1.253	-	-	0.02	0.773	0.969
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3 Sim	26340	1880	1	16.05	16.90	1.216	-	-	-0.03	0.420	0.511
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3 Sim	26340	1880	1	16.05	16.90	1.216	-	-	-0.11	0.648	0.788
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3 Sim	26340	1880	1	15.97	16.90	1.239	-	-	0.08	0.434	0.538
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3 Sim	26340	1880	1	15.97	16.90	1.239	-	-	-0.11	0.686	0.850
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3 Sim	26140	1860	1	15.85	16.90	1.274	-	-	0.03	0.614	0.782
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3 Sim	26590	1905	1	15.90	16.90	1.259	-	-	-0.17	0.642	0.808
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI3 Sim	26340	1880	1	15.92	16.90	1.253	-	-	0.02	0.708	0.887
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3	26340	1880	1	17.92	19.00	1.282	-	-	-0.08	0.747	0.958
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3	26140	1860	1	17.89	19.00	1.291	-	-	0.05	0.684	0.883
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3	26590	1905	1	17.63	19.00	1.371	-	-	-0.02	0.705	0.966
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	26340	1880	1	17.92	19.00	1.282	-	-	-0.11	0.762	0.977
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	26140	1860	1	17.89	19.00	1.291	-	-	0.18	0.722	0.932
83	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	26590	1905	1	17.63	19.00	1.371	-	-	0.06	0.911	1.249
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 4	Headset	DSI3	26590	1905	1	17.63	19.00	1.371	-	-	0.04	0.895	1.227
	LTE Band 25	20M	QPSK	1	0	-	Front	15mm	Ant 4	-	DSI4	26590	1905	1	22.50	24.00	1.413	-	-	0.03	0.489	0.691
	LTE Band 25	20M	QPSK	1	0	-	Back	23mm	Ant 4	-	DSI4	26590	1905	1	22.50	24.00	1.413	-	-	-0.11	0.300	0.424
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	DSI3	26340	1880	1	17.70	19.00	1.349	-	-	0.01	0.650	0.877
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	DSI3	26140	1860	1	17.42	19.00	1.439	-	-	0.12	0.612	0.881
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	DSI3	26590	1905	1	17.35	19.00	1.462	-	-	-0.08	0.623	0.911
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3	26340	1880	1	17.70	19.00	1.349	-	-	0.05	0.781	1.054
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3	26140	1860	1	17.42	19.00	1.439	-	-	0.05	0.713	1.026
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3	26590	1905	1	17.35	19.00	1.462	-	-	0.07	0.735	1.075
	LTE Band 25	20M	QPSK	100	0	-	Front	5mm	Ant 4	-	DSI3	26340	1880	1	17.77	19.00	1.327	-	-	-0.1	0.658	0.873
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 4	-	DSI3	26340	1880	1	17.77	19.00	1.327	-	-	0.04	0.796	1.057
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3 Sim	26340	1880	1	14.39	16.00	1.449	-	-	-0.08	0.289	0.419
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3 Sim	26340	1880	1	14.39	16.00	1.449	-	-	-0.11	0.361	0.523
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	DSI3 Sim	26340	1880	1	14.35	16.00	1.462	-	-	0.01	0.265	0.387
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3 Sim	26340	1880	1	14.35	16.00	1.462	-	-	0.05	0.341	0.499
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3	376500	1882.5	1	17.84	18.50	1.164	-	-	-0.17	0.576	0.671
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	376500	1882.5	1	17.84	18.50	1.164	-	-	0.14	0.995	1.158
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	-	DSI4	376500	1882.5	1	23.39	24.00	1.151	-	-	0.03	0.441	0.508
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	23mm	Ant 0	-	DSI4	376500	1882.5	1	23.39	24.00	1.151	-	-	0.15	0.344	0.396
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	-	DSI3	376500	1882.5	1	17.80	18.50	1.175	-	-	-0.01	0.606	0.712
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	DSI3	376500	1882.5	1	17.80	18.50	1.175	-	-	0.17	0.999	1.174
	FR1 n25	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0	-	DSI3	376500	1882.5	1	17.75	18.50	1.189	-	-	-0.06	1.010	1.200
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3 Sim	376500	1882.5	1	17.01	17.50	1.119	-	-	-0.17	0.443	0.496
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3 Sim	376500	1882.5	1	17.01	17.50	1.119	-	-	0.14	0.711	0.796
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	-	DSI3 Sim	376500	1882.5	1	16.88	17.50	1.153	-	-	-0.01	0.470	0.542
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	DSI3 Sim	376500	1882.5	1	16.88	17.50	1.153	-	-	0.17	0.767	0.885
	FR1 n25	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0	-	DSI3 Sim	376500	1882.5	1	16.93	17.50	1.140	-	-	-0.06	0.796	0.908
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 4	-	DSI3	376500	1882.5	1	18.42	19.00	1.143	-	-	-0.12	0.643	0.735
84	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	-	DSI3	376500	1882.5	1	18.42	19.00	1.143	-	-	0.11	1.090	1.246
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	Headset	DSI3	376500	1882.5	1	18.42	19.00	1.143	-	-	-0.05	0.951	1.087
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	15mm	Ant 4	-	DSI4	376500	1882.5	1	23.43	24.00	1.140	-	-	0.05	0.396	0.452



Table with 22 columns: Test ID, Model, Power, Modulation, Channels, Frequency, Bandwidth, Front Back, Antenna Size, Antenna Type, Radiation Pattern, Modulation, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density. Includes multiple rows for FR1 n25.

2300MHZ

Table with 22 columns: Test ID, Model, Power, Modulation, Channels, Frequency, Bandwidth, Front Back, Antenna Size, Antenna Type, Radiation Pattern, Modulation, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density. Includes multiple rows for LTE Band 30 and FR1 n30. Two rows are highlighted in yellow.

2600MHZ

Table with 22 columns: Test ID, Model, Power, Modulation, Channels, Frequency, Bandwidth, Front Back, Antenna Size, Antenna Type, Radiation Pattern, Modulation, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density, Power Spectral Density. Includes multiple rows for LTE Band 7 and LTE Band 7C.



FCC SAR Test Report

Report No. : FA2N1810

FR1 n77_PC2	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	DSI3	656000	3840	1	18.80	20.00	1.318	50	1.000	0.09	0.919	1.211
FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	Headset	DSI3	656000	3840	1	15.73	17.00	1.340	-	-	0.03	0.918	1.230
FR1 n77	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 8	-	DSI4	656000	3840	1	20.63	22.00	1.371	-	-	0.02	0.079	0.108
FR1 n77	100M	QPSK	1	1	DFT-30	Back	23mm	Ant 8	-	DSI4	656000	3840	1	20.63	22.00	1.371	-	-	0.04	0.132	0.181
FR1 n77	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	-	DSI3	656000	3840	1	15.43	17.00	1.435	-	-	-0.17	0.072	0.103
FR1 n77	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	-	DSI3	656000	3840	1	15.43	17.00	1.435	-	-	0.16	0.459	0.659
FR1 n77	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 8	-	DSI3	656000	3840	1	15.18	17.00	1.521	-	-	0.03	0.496	0.754
FR1 n77	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	-	DSI3 Sim	656000	3840	1	13.84	15.50	1.466	-	-	-	n/a	n/a
FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	DSI3 Sim	656000	3840	1	13.84	15.50	1.466	-	-	-0.11	0.574	0.841
FR1 n77_PC2	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	DSI3 Sim	656000	3840	1	17.21	18.50	1.346	50	1.000	-0.11	0.572	0.770
FR1 n77	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	-	DSI3 Sim	656000	3840	1	13.86	15.50	1.459	-	-	-	n/a	n/a
FR1 n77	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	-	DSI3 Sim	656000	3840	1	13.86	15.50	1.459	-	-	0.16	0.308	0.449
FR1 n77	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 8	-	DSI3 Sim	656000	3840	1	13.59	15.50	1.552	-	-	0.12	0.307	0.477
FR1 n77	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	-	DSI3	633332	3499.98	1	16.16	17.00	1.213	-	-	-0.17	0.049	0.059
FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	DSI3	633332	3499.98	1	16.16	17.00	1.213	-	-	-0.02	0.272	0.330
FR1 n77	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 8	-	DSI4	633332	3499.98	1	21.36	22.00	1.159	-	-	0.02	0.040	0.046
FR1 n77	100M	QPSK	1	1	DFT-30	Back	23mm	Ant 8	-	DSI4	633332	3499.98	1	21.36	22.00	1.159	-	-	-0.02	0.058	0.067
FR1 n77	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	-	DSI3	633332	3499.98	1	16.00	17.00	1.259	-	-	-	n/a	n/a
FR1 n77	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	-	DSI3	633332	3499.98	1	16.00	17.00	1.259	-	-	-0.15	0.294	0.370
FR1 n77_PC2	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	-	DSI3	633332	3499.98	1	19.42	20.00	1.143	50	1.000	-0.15	0.294	0.336
FR1 n77	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	-	DSI3 Sim	633332	3499.98	1	14.79	15.50	1.178	-	-	-	n/a	n/a
FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	DSI3 Sim	633332	3499.98	1	14.79	15.50	1.178	-	-	0.16	0.193	0.227
FR1 n77	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	-	DSI3 Sim	633332	3499.98	1	14.77	15.50	1.183	-	-	-	n/a	n/a
FR1 n77	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	-	DSI3 Sim	633332	3499.98	1	14.77	15.50	1.183	-	-	0.01	0.204	0.241
FR1 n77_PC2	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	-	DSI3 Sim	633332	3499.98	1	17.99	18.50	1.125	50	1.000	0.01	0.202	0.227



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Report No. : FA2N1810

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch	Freq. (MHz)	Sample	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)	
2450MHZ																			
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6	-	Standalone	11	2462	1	18.96	20.00	1.271	100	1.000	-0.11	0.352	0.447	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Standalone	11	2462	1	18.96	20.00	1.271	100	1.000	0.02	0.758	0.963	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Standalone	1	2412	1	18.42	20.00	1.439	100	1.000	0.13	0.641	0.922	
94	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Standalone	6	2437	1	18.64	20.00	1.368	100	1.000	0.17	0.851	1.164	
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 6	-	Full Power	11	2462	1	20.73	22.00	1.340	100	1.000	-0.11	0.106	0.142	
	WLAN2.4GHz	802.11b 1Mbps	Back	23mm	Ant 6	-	Full Power	6	2437	1	20.56	22.00	1.393	100	1.000	0.02	0.074	0.103	
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6	-	Simultaneous	11	2462	1	13.23	14.00	1.194	100	1.000	-0.11	0.131	0.156	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Simultaneous	11	2462	1	13.23	14.00	1.194	100	1.000	0.02	0.231	0.276	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Simultaneous	1	2412	1	12.63	14.00	1.371	100	1.000	0.13	0.166	0.228	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Simultaneous	6	2437	1	13.17	14.00	1.211	100	1.000	0.17	0.282	0.341	
5000MHz-6000MHz																			
	Bluetooth	DH5 1Mbps	Front	5mm	Ant 6	-	Standalone/Simultaneous	0	2402	1	11.61	12.50	1.226	77.01	1.299	-	n/a	n/a	
95	Bluetooth	DH5 1Mbps	Back	5mm	Ant 6	-	Standalone/Simultaneous	0	2402	1	11.61	12.50	1.226	77.01	1.299	-0.02	0.088	1.140	
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 6	-	Standalone/Simultaneous	39	2441	1	11.16	12.50	1.360	77.01	1.299	0.04	0.076	0.134	
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 6	-	Standalone/Simultaneous	78	2480	1	10.80	12.50	1.478	77.01	1.299	-0.06	0.072	0.138	
5000MHz-6000MHz																			
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Standalone	58	5290	1	15.09	16.50	1.384	92.98	1.076	-0.02	0.203	0.302	
96	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	58	5290	1	15.09	16.50	1.384	92.98	1.076	0.01	0.727	1.082	
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 6	-	Full Power	54	5270	1	19.83	21.50	1.468	96.3	1.038	-0.02	0.088	0.134	
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	23mm	Ant 6	-	Full Power	54	5270	1	19.83	21.50	1.468	96.3	1.038	0.01	0.250	0.381	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Simultaneous	58	5290	1	10.97	12.50	1.422	92.98	1.076	-0.09	0.256	0.392	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Standalone	122	5610	1	14.84	16.50	1.467	92.98	1.076	0.16	0.211	0.333	
97	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	122	5610	1	14.84	16.50	1.467	92.98	1.076	0.15	0.744	1.174	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	122	5610	2	14.84	16.50	1.467	92.98	1.076	0.08	0.691	1.091	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	138	5690	1	14.74	16.50	1.500	92.98	1.076	0.01	0.602	0.971	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	106	5530	1	14.76	16.50	1.494	92.98	1.076	0.03	0.583	0.937	
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 6	-	Full Power	126	5630	1	20.35	21.50	1.302	96.3	1.038	0.16	0.073	0.099	
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	23mm	Ant 6	-	Full Power	126	5630	1	20.35	21.50	1.302	96.3	1.038	0.15	0.280	0.378	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Simultaneous	122	5610	1	11.38	12.50	1.294	92.98	1.076	-0.1	0.278	0.387	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Simultaneous	138	5690	1	11.14	12.50	1.368	92.98	1.076	-0.12	0.204	0.300	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Simultaneous	106	5530	1	11.31	12.50	1.315	92.98	1.076	0.18	0.200	0.283	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Standalone	155	5775	1	17.60	19.00	1.380	92.98	1.076	0.03	0.169	0.251	
98	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	155	5775	1	17.60	19.00	1.380	92.98	1.076	-0.06	0.682	1.013	
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	15mm	Ant 6	-	Full Power	159	5795	1	19.81	21.50	1.474	96.3	1.038	0.03	0.079	0.121	
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	23mm	Ant 6	-	Full Power	159	5795	1	19.81	21.50	1.474	96.3	1.038	-0.06	0.218	0.334	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Simultaneous	155	5775	1	11.44	13.00	1.432	92.98	1.076	0.03	0.220	0.339	



16.4 Product specific 10g SAR

Table with columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Antenna, Headset, Power State, Ch., Freq. (MHz), Sample, Average Power (dBm), Tune-Up Limit (dBm), Tune-up Scaling Factor, Duty Cycle %, Duty Cycle Scaling Factor, Power Drift (dB), Measured 10g SAR (W/kg), Reported 10g SAR (W/kg). Rows include 750MHz and 835MHz bands with various test configurations and SAR values.



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Table with columns for test parameters (WCDMA II, LTE Band 25, FR1 n25), modulation (QPSK), power (1, 50, 100), and SAR values (0.06 to 2.759).



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	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 5	-	DSI6	633332	3499.98	1	19.27	20.00	1.183	-	-	-0.07	1.630	1.928
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 5	-	DSI4	633332	3499.98	1	23.21	24.00	1.199	-	-	-0.1	1.230	1.475
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 5	-	DSI6	633332	3499.98	1	19.27	20.00	1.183	-	-	0.04	1.540	1.822
	FR1 n77	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 5	-	DSI6	633332	3499.98	1	19.20	20.00	1.202	-	-	0.16	1.530	1.839
	FR1 n77	100M	QPSK	270	0	DFT-30	Top Side	0mm	Ant 5	-	DSI6	633332	3499.98	1	19.20	20.00	1.202	-	-	-0.01	1.320	1.587
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	-	DSI6	656000	3840	1	17.69	18.50	1.205	-	-	0.16	2.020	2.434
	FR1 n77	100M	QPSK	1	1	DFT-30	Bottom Side	0mm	Ant 1	-	DSI6	656000	3840	1	17.69	18.50	1.205	-	-	-0.01	0.555	0.669
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	16mm	Ant 1	-	DSI4	656000	3840	1	23.00	24.00	1.259	-	-	0.12	0.168	0.211
	FR1 n77	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant 1	-	DSI4	656000	3840	1	23.00	24.00	1.259	-	-	-0.14	0.200	0.252
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 1	-	DSI6	656000	3840	1	17.55	18.50	1.245	-	-	-0.14	1.960	2.439
	FR1 n77_PC2	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 1	-	DSI6	656000	3840	1	20.77	21.50	1.183	50	1.000	-0.08	1.920	2.271
	FR1 n77	100M	QPSK	135	69	DFT-30	Bottom Side	0mm	Ant 1	-	DSI6	656000	3840	1	17.55	18.50	1.245	-	-	0.04	0.554	0.689
	FR1 n77	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 1	-	DSI6	656000	3840	1	17.56	18.50	1.242	-	-	0.04	1.810	2.247
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	-	DSI6	633332	3499.98	1	17.58	18.50	1.236	-	-	-0.17	1.660	2.052
	FR1 n77_PC2	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	-	DSI6	633332	3499.98	1	20.80	21.50	1.175	50	1.000	-0.17	1.610	1.892
	FR1 n77	100M	QPSK	1	1	DFT-30	Bottom Side	0mm	Ant 1	-	DSI6	633332	3499.98	1	17.58	18.50	1.236	-	-	-0.01	0.586	0.724
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	16mm	Ant 1	-	DSI4	633332	3499.98	1	23.25	24.00	1.189	-	-	0.17	0.110	0.131
	FR1 n77	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant 1	-	DSI4	633332	3499.98	1	23.25	24.00	1.189	-	-	0.08	0.150	0.178
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 1	-	DSI6	633332	3499.98	1	17.56	18.50	1.242	-	-	0.16	1.570	1.949
	FR1 n77	100M	QPSK	135	69	DFT-30	Bottom Side	0mm	Ant 1	-	DSI6	633332	3499.98	1	17.56	18.50	1.242	-	-	-0.06	0.508	0.631
	FR1 n77	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 1	-	DSI6	633332	3499.98	1	17.39	18.50	1.291	-	-	-0.12	1.320	1.704
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 2	-	DSI6	656000	3840	1	16.27	17.50	1.327	-	-	0.09	0.739	0.981
	FR1 n77_PC2	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 2	-	DSI6	656000	3840	1	19.20	20.50	1.349	50	1.000	0.09	0.713	0.962
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 2	-	DSI6	656000	3840	1	16.27	17.50	1.327	-	-	0.03	0.340	0.451
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	-	DSI6	656000	3840	1	16.05	17.50	1.396	-	-	0.03	0.563	0.786
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	-	DSI6	656000	3840	1	16.05	17.50	1.396	-	-	-0.13	0.563	0.786
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 2	-	DSI6	633332	3499.98	1	16.72	17.50	1.197	-	-	0.03	1.820	2.178
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	-	DSI6	633332	3499.98	1	16.57	17.50	1.239	-	-	0.02	2.000	2.478
	FR1 n77_PC2	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	-	DSI6	633332	3499.98	1	19.83	20.50	1.167	50	1.000	0.02	1.960	2.287
	FR1 n77	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 2	-	DSI6	633332	3499.98	1	16.50	17.50	1.259	-	-	0.04	1.830	2.304
122	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	-	DSI6	656000	3840	1	20.63	22.00	1.371	-	-	0.18	1.990	2.728
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	-	DSI6	656000	3840	2	20.63	22.00	1.371	-	-	0.18	1.340	1.837
	FR1 n77_PC2	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	-	DSI6	656000	3840	1	23.51	25.00	1.409	50	1.000	0.18	1.930	2.720
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 8	-	DSI6	656000	3840	1	20.63	22.00	1.371	-	-	0.01	0.995	1.364
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 8	-	DSI6	656000	3840	1	20.30	22.00	1.479	-	-	-0.09	1.420	2.100
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 8	-	DSI6	656000	3840	1	20.30	22.00	1.479	-	-	0.1	0.878	1.299
	FR1 n77	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 8	-	DSI6	656000	3840	1	20.20	22.00	1.514	-	-	-0.14	1.250	1.892
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	-	DSI6	633332	3499.98	1	21.36	22.00	1.159	-	-	-0.18	1.540	1.785
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 8	-	DSI6	633332	3499.98	1	21.24	22.00	1.191	-	-	0.14	1.650	1.966
	FR1 n77_PC2	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 8	-	DSI6	633332	3499.98	1	24.13	25.00	1.222	50	1.000	0.14	1.610	1.967



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Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	
2450MHZ																			
123	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 6	-	Standalone	11	2462	1	20.73	22.00	1.340	100	1.000	0.06	0.714	0.957	
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	-	Standalone	11	2462	1	20.73	22.00	1.340	100	1.000	-0.03	1.560	2.090	
	WLAN2.4GHz	802.11b 1Mbps	Right Side	0mm	Ant 6	-	Standalone	11	2462	1	20.73	22.00	1.340	100	1.000	-0.13	0.908	1.216	
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 6	-	Standalone	11	2462	1	20.73	22.00	1.340	100	1.000	-0.05	1.480	1.983	
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	-	Standalone	1	2412	1	20.62	22.00	1.374	100	1.000	-0.05	1.410	1.937	
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	-	Standalone	6	2437	1	20.56	22.00	1.393	100	1.000	0.08	1.363	1.899	
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	-	Simultaneous	11	2462	1	16.72	17.50	1.197	100	1.000	0.05	0.133	0.159	
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	-	Simultaneous	1	2412	1	16.23	17.50	1.340	100	1.000	-0.17	0.127	0.170	
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	-	Simultaneous	6	2437	1	16.45	17.50	1.274	100	1.000	-0.09	0.144	0.183	
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 6	-	Simultaneous	11	2462	1	16.72	17.50	1.197	100	1.000	0.05	0.112	0.134	
5000-6000MHz																			
124	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	-	Standalone	46	5230	1	19.67	21.50	1.523	96.3	1.038	0.02	0.825	1.304	
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	-	Standalone	46	5230	1	19.67	21.50	1.523	96.3	1.038	-0.14	0.515	0.814	
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	-	Standalone	46	5230	1	19.67	21.50	1.523	96.3	1.038	-0.02	0.958	1.514	
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	-	Standalone	38	5190	1	19.57	21.50	1.558	96.3	1.038	-0.03	1.050	1.698	
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	-	Simultaneous	42	5210	1	15.94	17.50	1.432	92.98	1.076	0.09	0.331	0.510	
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6	-	Simultaneous	42	5210	1	15.94	17.50	1.432	92.98	1.076	0.09	0.442	0.681	
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 6	-	Standalone	54	5270	1	19.83	21.50	1.468	96.3	1.038	-0.14	0.231	0.352	
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	-	Standalone	54	5270	1	19.83	21.50	1.468	96.3	1.038	0.04	0.808	1.231	
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	-	Standalone	54	5270	1	19.83	21.50	1.468	96.3	1.038	0.01	0.555	0.845	
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	-	Standalone	54	5270	1	19.83	21.50	1.468	96.3	1.038	-0.06	0.910	1.386	
125	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	-	Standalone	62	5310	1	19.79	21.00	1.321	96.3	1.038	0.14	0.873	1.197	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	-	Simultaneous	58	5290	1	17.28	19.00	1.486	92.98	1.076	0.1	0.435	0.696	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6	-	Simultaneous	58	5290	1	17.28	19.00	1.486	92.98	1.076	0.1	0.541	0.865	
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 6	-	Standalone	126	5630	1	20.35	21.50	1.302	96.3	1.038	-0.06	0.356	0.481	
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	-	Standalone	126	5630	1	20.35	21.50	1.302	96.3	1.038	0.14	0.962	1.300	
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	-	Standalone	126	5630	1	20.35	21.50	1.302	96.3	1.038	0.01	0.795	1.074	
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	-	Standalone	126	5630	1	20.35	21.50	1.302	96.3	1.038	0.05	0.544	0.735	
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	-	Standalone	102	5510	1	19.73	21.50	1.502	96.3	1.038	-0.12	0.705	1.099	
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	-	Standalone	110	5550	1	20.12	21.50	1.373	96.3	1.038	0.13	0.968	1.379	
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	-	Standalone	134	5670	1	19.85	21.50	1.461	96.3	1.038	-0.08	0.721	1.093	
126	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	-	Standalone	142	5710	1	19.36	21.00	1.457	96.3	1.038	-0.11	0.710	1.074	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	-	Simultaneous	122	5610	1	17.30	18.50	1.318	92.98	1.076	0.05	0.481	0.682	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	-	Simultaneous	138	5690	1	17.27	18.50	1.329	92.98	1.076	0.13	0.448	0.640	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	-	Simultaneous	106	5530	1	16.89	18.50	1.449	92.98	1.076	-0.04	0.475	0.740	
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	-	Standalone	159	5795	1	19.81	21.50	1.474	96.3	1.038	-0.03	0.744	1.139	
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	-	Standalone	159	5795	1	19.81	21.50	1.474	96.3	1.038	-0.03	1.340	2.051	
	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	-	Standalone	159	5795	1	19.81	21.50	1.474	96.3	1.038	-0.03	0.577	0.883	
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	-	Standalone	151	5755	1	19.34	21.00	1.464	96.3	1.038	-0.12	1.410	2.143	
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	-	Standalone	151	5755	2	19.34	21.00	1.464	96.3	1.038	-0.12	1.290	1.961	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	-	Simultaneous	155	5775	1	16.18	17.50	1.355	92.98	1.076	-0.09	0.328	0.478	
127	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6	-	Simultaneous	155	5775	1	16.18	17.50	1.355	92.98	1.076	-0.09	0.462	0.674	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6	-	Simultaneous	155	5775	1	16.18	17.50	1.355	92.98	1.076	-0.09	0.289	0.421	



16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Sample	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)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	-	DSI 2	23095	707.5	1	22.92	24.00	1.282	-	-	-0.01	0.961	1	1.232
2nd	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	-	DSI 2	23095	707.5	1	22.92	24.00	1.282	-	-	-0.07	0.955	1.006	1.225
1st	FR1 n26	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	-	DSI 2	166300	831.5	1	23.00	23.50	1.122	-	-	-0.12	1.030	1	1.156
2nd	FR1 n26	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	-	DSI 2	166300	831.5	1	23.00	23.50	1.122	-	-	0.04	0.980	1.051	1.100
1st	LTE Band 30_ENDC	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	-	DSI 2	27710	2310	1	15.01	15.50	1.119	-	-	0.09	0.985	1	1.103
2nd	LTE Band 30_ENDC	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	-	DSI 2	27710	2310	1	15.01	15.50	1.119	-	-	0.18	0.977	1.008	1.094
1st	FR1 n41	100M	QPSK	1	137	DFT-30	Right Tilted	0mm	Ant 4	-	DSI 2	518598	2592.99	1	16.32	17.00	1.169	-	-	0.17	1.070	1	1.251
2nd	FR1 n41	100M	QPSK	1	137	DFT-30	Right Tilted	0mm	Ant 4	-	DSI 2	518598	2592.99	1	16.32	17.00	1.169	-	-	0.14	0.991	1.080	1.159
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 6	-	Standalone	11	2462	1	18.96	20.00	1.271	100	1.000	-0.12	0.930	1	1.182
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 6	-	Standalone	11	2462	1	18.96	20.00	1.271	100	1.000	-0.12	0.880	1.057	1.118
1st	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	340500	1702.5	1	20.47	21.00	1.130	-	-	0.04	1.110	1	1.254
2nd	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	340500	1702.5	1	20.47	21.00	1.130	-	-	0.02	1.080	1.028	1.220
1st	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	-	DSI3	376500	1882.5	1	18.42	19.00	1.143	-	-	0.11	1.090	1	1.246
2nd	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	-	DSI3	376500	1882.5	1	18.42	19.00	1.143	-	-	-0.01	0.995	1.095	1.137
1st	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	DSI3	641666	3624.99	1	17.15	18.00	1.216	-	-	0.15	0.897	1	1.091
2nd	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	DSI3	641666	3624.99	1	17.15	18.00	1.216	-	-	0.03	0.801	1.120	0.974
1st	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	DSI3	656000	3840	1	15.73	16.50	1.194	-	-	0.08	1.040	1	1.242
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	DSI3	656000	3840	1	15.73	16.50	1.194	-	-	0.04	0.920	1.130	1.098
1st	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	DSI3	633332	3499.98	1	15.65	16.50	1.216	-	-	0.12	0.988	1	1.202
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	DSI3	633332	3499.98	1	15.65	16.50	1.216	-	-	0.01	0.910	1.086	1.107

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI6	4182	836.4	1	23.45	24.00	1.135	-0.06	2.030	1	2.304
2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI6	4182	836.4	1	23.45	24.00	1.135	-0.11	2.010	1.010	2.281
1st	FR1 n66	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI6	349000	1745	1	21.53	22.00	1.114	-0.07	2.460	1	2.741
2nd	FR1 n66	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI6	349000	1745	1	21.53	22.00	1.114	0.15	2.410	1.021	2.685
1st	FR1 n25	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI6	376500	1882.5	1	21.39	21.50	1.026	0.05	2.690	1	2.759
2nd	FR1 n25	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI6	376500	1882.5	1	21.39	21.50	1.026	0.05	2.640	1.019	2.708
1st	LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 1	DSI6	27710	2310	1	19.48	20.00	1.127	0.05	2.390	1	2.694
2nd	LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 1	DSI6	27710	2310	1	19.48	20.00	1.127	0.09	2.210	1.081	2.491
1st	FR1 n7_ENDC	40M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	DSI6	507000	2535	1	17.31	18.00	1.172	-0.05	2.310	1	2.708
2nd	FR1 n7_ENDC	40M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	DSI6	507000	2535	1	17.31	18.00	1.172	0.1	2.280	1.013	2.673
1st	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	DSI6	633332	3499.98	1	16.57	17.50	1.239	0.02	2.000	1	2.478
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	DSI6	633332	3499.98	1	16.57	17.50	1.239	0.11	1.840	1.087	2.279
1st	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 5	DSI6	656000	3840	1	19.53	20.00	1.114	0.03	2.240	1	2.496
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 5	DSI6	656000	3840	1	19.53	20.00	1.114	0.03	2.030	1.103	2.262

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8W/kg$.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45W/kg$, only one repeated measurement is required.
- Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- The ratio is the difference in percentage between original and repeated *measured* SAR.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.



16.6 TDD LTE and NR Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for LTE Band 41/5GNR n41/n77. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

Head			Hopspot		
LTE Band 41_Ant 1(HPUE)-Linearity Data for DSI 2			LTE Band 41_Ant 1(HPUE)-Linearity Data for DSI 3		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	25.10	Maximum Tune up Power (dBm)	19.10	20.70
Reported 1g SAR (W/kg)	0.505	0.507	Reported 1g SAR (W/kg)	1.137	1.034
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	140.12	Frame Averaged (mW)	51.45	50.87
Linearity SAR (W/kg)	0.499		Linearity SAR (W/kg)	1.124	
% deviation from expected linearity		1.54%	% deviation from expected linearity		-8.02%
FR1 n41_Ant 1(HPUE)-Linearity Data for DSI 2			FR1 n41_Ant 1(HPUE)-Linearity Data for DSI 3		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	21.00	24.00	Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.495	0.479	Reported 1g SAR (W/kg)	1.234	1.139
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	125.89	125.59	Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.494		Linearity SAR (W/kg)	1.231	
% deviation from expected linearity		-3.00%	% deviation from expected linearity		-7.48%
FR1 n41_Ant 2(HPUE)-Linearity Data for DSI 2			FR1 n41_Ant 2(HPUE)-Linearity Data for DSI 3		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00	Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	0.206	0.196	Reported 1g SAR (W/kg)	0.879	0.831
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	199.05	Frame Averaged (mW)	50.12	50.00
Linearity SAR (W/kg)	0.206		Linearity SAR (W/kg)	0.877	
% deviation from expected linearity		-4.63%	% deviation from expected linearity		-5.24%
FR1 n41_Ant 4(HPUE)-Linearity Data for DSI 2			FR1 n41_Ant 4(HPUE)-Linearity Data for DSI 3		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	17.00	20.00	Maximum Tune up Power (dBm)	13.50	16.50
Reported 1g SAR (W/kg)	1.251	1.185	Reported 1g SAR (W/kg)	1.029	0.938
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	50.12	50.00	Frame Averaged (mW)	22.39	22.33
Linearity SAR (W/kg)	1.248		Linearity SAR (W/kg)	1.027	
% deviation from expected linearity		-5.05%	% deviation from expected linearity		-8.63%
FR1 n41_Ant 7(HPUE)-Linearity Data for DSI 2			FR1 n41_Ant 7(HPUE)-Linearity Data for DSI 3		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	25.00	Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	0.750	0.694	Reported 1g SAR (W/kg)	0.960	0.877
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	158.11	Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	0.748		Linearity SAR (W/kg)	0.958	
% deviation from expected linearity		-7.25%	% deviation from expected linearity		-8.43%
FR1 n77 part 270_Ant 5(HPUE)-Linearity Data for DSI 2			FR1 n77 part 270_Ant 5(HPUE)-Linearity Data for DSI 3		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.00	20.00	Maximum Tune up Power (dBm)	15.00	18.00
Reported 1g SAR (W/kg)	1.127	1.107	Reported 1g SAR (W/kg)	0.933	0.932



Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	50.12	50.00	Frame Averaged (mW)	31.62	31.55
Linearity SAR (W/kg)	1.124		Linearity SAR (W/kg)	0.931	
% deviation from expected linearity		-1.54%	% deviation from expected linearity		0.13%
FR1 n77 part 27Q_Ant 5(HPUE)-Linearity Data for DSI 2			FR1 n77 part 27Q_Ant 5(HPUE)-Linearity Data for DSI 3		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.00	20.00	Maximum Tune up Power (dBm)	15.00	18.00
Reported 1g SAR (W/kg)	1.018	1.027	Reported 1g SAR (W/kg)	0.976	0.944
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	50.12	50.00	Frame Averaged (mW)	31.62	31.55
Linearity SAR (W/kg)	1.016		Linearity SAR (W/kg)	0.974	
% deviation from expected linearity		1.12%	% deviation from expected linearity		-3.05%
FR1 n77 part 27O_Ant 1(HPUE)-Linearity Data for DSI 2			FR1 n77 part 27O_Ant 1(HPUE)-Linearity Data for DSI 3		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.077	0.073	Reported 1g SAR (W/kg)	0.987	0.942
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.077		Linearity SAR (W/kg)	0.985	
% deviation from expected linearity		-4.97%	% deviation from expected linearity		-4.33%
FR1 n77 part 27Q_Ant 1(HPUE)-Linearity Data for DSI 2			FR1 n77 part 27Q_Ant 1(HPUE)-Linearity Data for DSI 3		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.004	0.004	Reported 1g SAR (W/kg)	0.866	0.855
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.004		Linearity SAR (W/kg)	0.864	
% deviation from expected linearity		0.24%	% deviation from expected linearity		-1.04%
FR1 n77 part 27O_Ant 2(HPUE)-Linearity Data for DSI 2			FR1 n77 part 27O_Ant 2(HPUE)-Linearity Data for DSI 3		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00	Maximum Tune up Power (dBm)	14.50	17.50
Reported 1g SAR (W/kg)	0.241	0.230	Reported 1g SAR (W/kg)	0.963	0.940
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	199.05	Frame Averaged (mW)	28.18	28.12
Linearity SAR (W/kg)	0.240		Linearity SAR (W/kg)	0.961	
% deviation from expected linearity		-4.34%	% deviation from expected linearity		-2.16%
FR1 n77 part 27Q_Ant 2(HPUE)-Linearity Data for DSI 2			FR1 n77 part 27Q_Ant 2(HPUE)-Linearity Data for DSI 3		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00	Maximum Tune up Power (dBm)	14.50	17.50
Reported 1g SAR (W/kg)	0.244	0.228	Reported 1g SAR (W/kg)	0.358	0.325
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	199.05	Frame Averaged (mW)	28.18	28.12
Linearity SAR (W/kg)	0.243		Linearity SAR (W/kg)	0.357	
% deviation from expected linearity		-6.34%	% deviation from expected linearity		-9.00%
FR1 n77 part 27O_Ant 8(HPUE)-Linearity Data for DSI 2			FR1 n77 part 27O_Ant 8(HPUE)-Linearity Data for DSI 3		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00	Maximum Tune up Power (dBm)	15.50	18.50
Reported 1g SAR (W/kg)	0.592	0.609	Reported 1g SAR (W/kg)	0.841	0.770
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	199.05	Frame Averaged (mW)	35.48	35.40
Linearity SAR (W/kg)	0.591		Linearity SAR (W/kg)	0.839	
% deviation from expected linearity		3.12%	% deviation from expected linearity		-8.22%
FR1 n77 part 27Q_Ant 8(HPUE)-Linearity Data for DSI 2			FR1 n77 part 27Q_Ant 8(HPUE)-Linearity Data for DSI 3		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00	Maximum Tune up Power (dBm)	15.50	18.50



Reported 1g SAR (W/kg)	0.323	0.312	Reported 1g SAR (W/kg)	0.241	0.227
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	199.05	Frame Averaged (mW)	35.48	35.40
Linearity SAR (W/kg)	0.322		Linearity SAR (W/kg)	0.240	
% deviation from expected linearity		-3.18%	% deviation from expected linearity		-5.59%

Body-worn			Extremity		
LTE Band 41_Ant 1(HPUE)-Linearity Data for DSI 3/3 Sim			LTE Band 41_Ant 1(HPUE)-Linearity Data for DSI 6		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	19.10	20.70	Maximum Tune up Power (dBm)	21.60	23.20
Reported 1g SAR (W/kg)	1.137	1.034	Reported 10g SAR (W/kg)	2.669	2.433
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	51.45	50.87	Frame Averaged (mW)	91.50	90.47
Linearity SAR (W/kg)	1.124		Linearity SAR (W/kg)	2.639	
% deviation from expected linearity		-8.02%	% deviation from expected linearity		-7.80%
FR1 n41_Ant 1(HPUE)-Linearity Data for DSI 3/3 Sim			FR1 n41_Ant 1(HPUE)-Linearity Data for DSI 6		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	17.50	20.50	Maximum Tune up Power (dBm)	19.00	22.00
Reported 1g SAR (W/kg)	1.234	1.139	Reported 10g SAR (W/kg)	2.695	2.512
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	56.23	56.10	Frame Averaged (mW)	79.43	79.24
Linearity SAR (W/kg)	1.231		Linearity SAR (W/kg)	2.689	
% deviation from expected linearity		-7.48%	% deviation from expected linearity		-6.57%
FR1 n41_Ant 2(HPUE)-Linearity Data for DSI 3			FR1 n41_Ant 2(HPUE)-Linearity Data for DSI 6		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50	Maximum Tune up Power (dBm)	21.50	24.50
Reported 1g SAR (W/kg)	1.204	1.112	Reported 10g SAR (W/kg)	2.731	2.571
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63	Frame Averaged (mW)	141.25	140.92
Linearity SAR (W/kg)	1.201		Linearity SAR (W/kg)	2.725	
% deviation from expected linearity		-7.42%	% deviation from expected linearity		-5.64%
FR1 n41_Ant 2(HPUE)-Linearity Data for DSI 3 Sim			FR1 n41_Ant 4(HPUE)-Linearity Data for DSI 6		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	17.00	20.00	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.879	0.831	Reported 10g SAR (W/kg)	2.383	2.272
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	50.12	50.00	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.877		Linearity SAR (W/kg)	2.377	
% deviation from expected linearity		-5.24%	% deviation from expected linearity		-4.43%
FR1 n41_Ant 4(HPUE)-Linearity Data for DSI 3			FR1 n41_Ant 7(HPUE)-Linearity Data for DSI 6		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	16.00	19.00	Maximum Tune up Power (dBm)	22.00	25.00
Reported 1g SAR (W/kg)	1.188	1.122	Reported 10g SAR (W/kg)	2.133	2.127
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	39.81	39.72	Frame Averaged (mW)	158.49	158.11
Linearity SAR (W/kg)	1.185		Linearity SAR (W/kg)	2.128	
% deviation from expected linearity		-5.33%	% deviation from expected linearity		-0.04%
FR1 n41_Ant 4(HPUE)-Linearity Data for DSI 3 Sim			FR1 n77 part 270_Ant 5(HPUE)-Linearity Data for DSI 6		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	13.50	16.50	Maximum Tune up Power (dBm)	20.00	23.00
Reported 1g SAR (W/kg)	0.607	0.564	Reported 10g SAR (W/kg)	2.496	2.475
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	22.39	22.33	Frame Averaged (mW)	100.00	99.76
Linearity SAR (W/kg)	0.606		Linearity SAR (W/kg)	2.490	



% deviation from expected linearity		-6.86%	% deviation from expected linearity		-0.61%
FR1 n41_Ant 7(HPUE)-Linearity Data for DSI 3			FR1 n77 part 27Q_Ant 5(HPUE)-Linearity Data for DSI 6		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	19.00	22.00	Maximum Tune up Power (dBm)	20.00	23.00
Reported 1g SAR (W/kg)	1.083	1.036	Reported 10g SAR (W/kg)	2.095	2.021
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	79.43	79.24	Frame Averaged (mW)	100.00	99.76
Linearity SAR (W/kg)	1.080		Linearity SAR (W/kg)	2.090	
% deviation from expected linearity		-4.11%	% deviation from expected linearity		-3.30%
FR1 n41_Ant 7(HPUE)-Linearity Data for DSI 3 Sim			FR1 n77 part 27O_Ant 1(HPUE)-Linearity Data for DSI 6		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.00	21.00	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.960	0.877	Reported 10g SAR (W/kg)	2.439	2.271
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.958		Linearity SAR (W/kg)	2.433	
% deviation from expected linearity		-8.43%	% deviation from expected linearity		-6.67%
FR1 n77 part 27O_Ant 5(HPUE)-Linearity Data for DSI 3			FR1 n77 part 27Q_Ant 1(HPUE)-Linearity Data for DSI 6		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	16.50	19.50	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	1.242	1.195	Reported 10g SAR (W/kg)	2.052	1.892
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	1.239		Linearity SAR (W/kg)	2.047	
% deviation from expected linearity		-3.56%	% deviation from expected linearity		-7.58%
FR1 n77 part 27O_Ant 5(HPUE)-Linearity Data for DSI 3 Sim			FR1 n77 part 27O_Ant 2(HPUE)-Linearity Data for DSI 6		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	15.00	18.00	Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.838	0.859	Reported 10g SAR (W/kg)	0.981	0.962
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	31.62	31.55	Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.836		Linearity SAR (W/kg)	0.979	
% deviation from expected linearity		2.75%	% deviation from expected linearity		-1.70%
FR1 n77 part 27Q_Ant 5(HPUE)-Linearity Data for DSI 3			FR1 n77 part 27Q_Ant 2(HPUE)-Linearity Data for DSI 6		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	16.50	19.50	Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	1.240	1.236	Reported 10g SAR (W/kg)	2.478	2.287
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56	Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	1.237		Linearity SAR (W/kg)	2.472	
% deviation from expected linearity		-0.09%	% deviation from expected linearity		-7.49%
FR1 n77 part 27Q_Ant 5(HPUE)-Linearity Data for DSI 3 Sim			FR1 n77 part 27O_Ant 8(HPUE)-Linearity Data for DSI 6		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	15.00	18.00	Maximum Tune up Power (dBm)	22.00	25.00
Reported 1g SAR (W/kg)	0.976	0.944	Reported 10g SAR (W/kg)	2.728	2.720
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	31.62	31.55	Frame Averaged (mW)	158.49	158.11
Linearity SAR (W/kg)	0.974		Linearity SAR (W/kg)	2.722	
% deviation from expected linearity		-3.05%	% deviation from expected linearity		-0.06%
FR1 n77 part 27O_Ant 1(HPUE)-Linearity Data for DSI 3/3 Sim			FR1 n77 part 27Q_Ant 8(HPUE)-Linearity Data for DSI 6		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.50	20.50	Maximum Tune up Power (dBm)	22.00	25.00
Reported 1g SAR (W/kg)	0.987	0.942	Reported 10g SAR (W/kg)	1.966	1.967
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	56.23	56.10	Frame Averaged (mW)	158.49	158.11



Linearity SAR (W/kg)	0.985		Linearity SAR (W/kg)	1.961	
% deviation from expected linearity		-4.33%	% deviation from expected linearity		0.29%
FR1 n77 part 27Q_Ant 1(HPUE)-Linearity Data for DSI 3/3 Sim					
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)			
Maximum Tune up Power (dBm)	17.50	20.50			
Reported 1g SAR (W/kg)	0.866	0.855			
Duty Cycle	100.00%	50.00%			
Frame Averaged (mW)	56.23	56.10			
Linearity SAR (W/kg)	0.864				
% deviation from expected linearity		-1.04%			
FR1 n77 part 27Q_Ant 2(HPUE)-Linearity Data for DSI 3					
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)			
Maximum Tune up Power (dBm)	15.50	18.50			
Reported 1g SAR (W/kg)	1.252	1.206			
Duty Cycle	100.00%	50.00%			
Frame Averaged (mW)	35.48	35.40			
Linearity SAR (W/kg)	1.249				
% deviation from expected linearity		-3.45%			
FR1 n77 part 27Q_Ant 2(HPUE)-Linearity Data for DSI 3 Sim					
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)			
Maximum Tune up Power (dBm)	14.50	17.50			
Reported 1g SAR (W/kg)	0.963	0.940			
Duty Cycle	100.00%	50.00%			
Frame Averaged (mW)	28.18	28.12			
Linearity SAR (W/kg)	0.961				
% deviation from expected linearity		-2.16%			
FR1 n77 part 27Q_Ant 2(HPUE)-Linearity Data for DSI 3					
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)			
Maximum Tune up Power (dBm)	15.50	18.50			
Reported 1g SAR (W/kg)	0.454	0.416			
Duty Cycle	100.00%	50.00%			
Frame Averaged (mW)	35.48	35.40			
Linearity SAR (W/kg)	0.453				
% deviation from expected linearity		-8.15%			
FR1 n77 part 27Q_Ant 2(HPUE)-Linearity Data for DSI 3 Sim					
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)			
Maximum Tune up Power (dBm)	14.50	17.50			
Reported 1g SAR (W/kg)	0.358	0.328			
Duty Cycle	100.00%	50.00%			
Frame Averaged (mW)	28.18	28.12			
Linearity SAR (W/kg)	0.357				
% deviation from expected linearity		-8.16%			
FR1 n77 part 27Q_Ant 8(HPUE)-Linearity Data for DSI 3					
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)			
Maximum Tune up Power (dBm)	17.00	20.00			
Reported 1g SAR (W/kg)	1.234	1.211			
Duty Cycle	100.00%	50.00%			
Frame Averaged (mW)	50.12	50.00			
Linearity SAR (W/kg)	1.231				
% deviation from expected linearity		-1.63%			
FR1 n77 part 27Q_Ant 8(HPUE)-Linearity Data for DSI 3 Sim					
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)			
Maximum Tune up Power (dBm)	15.50	18.50			
Reported 1g SAR (W/kg)	0.841	0.770			
Duty Cycle	100.00%	50.00%			



Frame Averaged (mW)	35.48	35.40	
Linearity SAR (W/kg)	0.839		
% deviation from expected linearity		-8.22%	
FR1 n77 part 27Q_Ant 8(HPUE)-Linearity Data for DSI 3			
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)	
Maximum Tune up Power (dBm)	17.00	20.00	
Reported 1g SAR (W/kg)	0.370	0.336	
Duty Cycle	100.00%	50.00%	
Frame Averaged (mW)	50.12	50.00	
Linearity SAR (W/kg)	0.369		
% deviation from expected linearity		-8.97%	
FR1 n77 part 27Q_Ant 8(HPUE)-Linearity Data for DSI 3 Sim			
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)	
Maximum Tune up Power (dBm)	15.50	18.50	
Reported 1g SAR (W/kg)	0.241	0.227	
Duty Cycle	100.00%	50.00%	
Frame Averaged (mW)	35.48	35.40	
Linearity SAR (W/kg)	0.240		
% deviation from expected linearity		-5.59%	

17. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz	Yes	Yes	Yes	Yes
3.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
4.	WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
5.	WWAN + WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes

General Note:

1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. WWAN above includes 5G NR bands.
3. EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
4. For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In Part 1 Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
5. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
6. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
7. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
8. WLAN 2.4GHz and Bluetooth share the same antenna, and they cannot transmit simultaneously each other.
9. According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
10. According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can't transmit simultaneously.
11. For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna for head each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each bands.
12. The maximum SAR summation is calculated based on the same configuration and test position.
13. For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
14. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - v) The SPLSR calculated results please refer to section 17.6.

17.1 5G NR + LTE + WLAN + BT Sim-Tx analysis

In 5G NR + LTE + WLAN + BT simultaneous transmission, 5G NR and LTE transmission are managed and controlled by Qualcomm® Smart Transmit, while the RF exposure from WLAN and BT radios is managed using legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values.

Smart Transmit current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x%, then the exposure margin left for 5G NR is capped to (100-x)%. Thus, the compliance equation for LTE + 5G NR is

$$x\% * A + (100-x)\% * B \leq 1.0,$$

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and $A \leq 1.0$; B is normalized reported time-averaged exposure ratio from 5G NR (i.e. SAR exposure for 5G FR1), and $B \leq 1.0$.

Let C = normalized reported SAR exposure ratio from WLAN+BT, then for compliance,

$$x\% * A + (100-x)\% * B + C \leq 1.0 \quad (1)$$

$$x\% * A + (100-x)\% * B \leq x\% * \max(A, B) + (100-x)\% * \max(A, B) \leq \max(A, B)$$

$$x\% * A + (100-x)\% * B + C \leq \max(A, B) + C \leq 1.0 \quad (2)$$

If $A + C \leq 1.0$ and $B + C \leq 1.0$ can be proven, then " $x\% * A + (100-x)\% * B + C \leq 1.0$ ". Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

Step 1: Prove total exposure ratio (TER) of LTE + WLAN + BT < 1

Step 2: Prove total exposure ratio (TER) of 5G NR + WLAN + BT < 1

Else, if $A + C > 1.0$ and/or $B + C > 1.0$, then the followings need to hold true for compliance:

i. A and C are decoupled based on the SPLSR criteria, and

ii. $(100-x)\% * B + C \leq 1.0$, and

iii. $x\% * A + (100-x)\% * B \leq 1.0$

Note iii. is covered in Part 2 report; i. and ii. should be addressed in Part 2 report.

Above analysis is also apply to LTE/NR inter-band uplink, LTE(NR)1 + LTE(NR)2 + WLAN + BT simultaneous transmission, So inter-band uplink CA no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of LTE/NR + WLAN + BT < 1.



17.2 Head Exposure Conditions

WWAN Band	Exposure Position	1	3	10	17	1+3	1+10+17
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands Ant 0	Right Cheek	0.575	0.489	0.305	0.062	1.06	0.94
	Right Tilted	0.367	0.457	0.286	0.078	0.82	0.73
	Left Cheek	0.500	0.345	0.378	0.202	0.85	1.08
	Left Tilted	0.292	0.266	0.450	0.000	0.56	0.74
All Bands Ant 1	Right Cheek	0.339	0.489	0.305	0.062	0.83	0.71
	Right Tilted	0.283	0.457	0.286	0.078	0.74	0.65
	Left Cheek	0.791	0.345	0.378	0.202	1.14	1.37
	Left Tilted	0.164	0.266	0.450	0.000	0.43	0.61
All Bands Ant 2	Right Cheek	0.231	0.489	0.305	0.062	0.72	0.60
	Right Tilted	0.098	0.457	0.286	0.078	0.56	0.46
	Left Cheek	0.084	0.345	0.378	0.202	0.43	0.66
	Left Tilted	0.076	0.266	0.450	0.000	0.34	0.53
All Bands Ant 4	Right Cheek	1.101	0.489	0.305	0.062	1.59	1.47
	Right Tilted	1.074	0.457	0.286	0.078	1.53	1.44
	Left Cheek	0.837	0.345	0.378	0.202	1.18	1.42
	Left Tilted	0.778	0.266	0.450	0.000	1.04	1.23
All Bands Ant 5	Right Cheek	0.591	0.489	0.305	0.062	1.08	0.96
	Right Tilted	0.659	0.457	0.286	0.078	1.12	1.02
	Left Cheek	0.988	0.345	0.378	0.202	1.33	1.57
	Left Tilted	0.859	0.266	0.450	0.000	1.13	1.31
All Bands Ant 7	Right Cheek	0.391	0.489	0.305	0.062	0.88	0.76
	Right Tilted	0.270	0.457	0.286	0.078	0.73	0.63
	Left Cheek	0.750	0.345	0.378	0.202	1.10	1.33
	Left Tilted	0.468	0.266	0.450	0.000	0.73	0.92
All Bands Ant 8	Right Cheek	0.291	0.489	0.305	0.062	0.78	0.66
	Right Tilted	0.125	0.457	0.286	0.078	0.58	0.49
	Left Cheek	0.609	0.345	0.378	0.202	0.95	1.19
	Left Tilted	0.182	0.266	0.450	0.000	0.45	0.63



17.3 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	3	10	17	1+3	1+10+17	Case No
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GSM850 Ant 0	Front	0.547	0.105	0.055		0.65	0.60	
	Back	0.835	0.337	0.339	0.140	1.17	1.31	
	Left side					0.00	0.00	
	Right side	0.383	0.112	0.354		0.50	0.74	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	1.194				1.19	1.19	
GSM850 Ant 4	Front	0.496	0.105	0.055		0.60	0.55	
	Back	0.939	0.337	0.339	0.140	1.28	1.42	
	Left side	0.196				0.20	0.20	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.827	0.167	0.234	0.113	0.99	1.17	
	Bottom side					0.00	0.00	
GSM1900 Ant 0	Front	0.423	0.105	0.055		0.53	0.48	
	Back	0.882	0.337	0.339	0.140	1.22	1.36	
	Left side					0.00	0.00	
	Right side	0.068	0.112	0.354		0.18	0.42	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	1.220				1.22	1.22	
GSM1900 Ant 4	Front	0.439	0.105	0.055		0.54	0.49	
	Back	0.511	0.337	0.339	0.140	0.85	0.99	
	Left side	0.100				0.10	0.10	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.971	0.167	0.234	0.113	1.14	1.32	
	Bottom side					0.00	0.00	
WCDMA V Ant 0	Front	0.383	0.105	0.055		0.49	0.44	
	Back	1.060	0.337	0.339	0.140	1.40	1.54	
	Left side					0.00	0.00	
	Right side	0.299	0.112	0.354		0.41	0.65	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	1.193				1.19	1.19	
WCDMA V Ant 4	Front	0.357	0.105	0.055		0.46	0.41	
	Back	0.877	0.337	0.339	0.140	1.21	1.36	
	Left side	0.172				0.17	0.17	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.669	0.167	0.234	0.113	0.84	1.02	
	Bottom side					0.00	0.00	
WCDMA IV Ant 0	Front	0.692	0.105	0.055		0.80	0.75	
	Back	0.721	0.337	0.339	0.140	1.06	1.20	
	Left side					0.00	0.00	
	Right side	0.092	0.112	0.354		0.20	0.45	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	1.116				1.12	1.12	
WCDMA IV Ant 4	Front	0.309	0.105	0.055		0.41	0.36	
	Back	0.618	0.337	0.339	0.140	0.96	1.10	
	Left side	0.064				0.06	0.06	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.920	0.167	0.234	0.113	1.09	1.27	
	Bottom side					0.00	0.00	
WCDMA II Ant 0	Front	0.490	0.105	0.055		0.60	0.55	
	Back	0.743	0.337	0.339	0.140	1.08	1.22	



	Left side					0.00	0.00	
	Right side	0.082	0.112	0.354		0.19	0.44	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	1.129				1.13	1.13	
WCDMA II Ant 4	Front	0.322	0.105	0.055		0.43	0.38	
	Back	0.661	0.337	0.339	0.140	1.00	1.14	
	Left side	0.001				0.00	0.00	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.827	0.167	0.234	0.113	0.99	1.17	
LTE Band 71 Ant 0	Bottom side					0.00	0.00	
	Front	0.455	0.105	0.055		0.56	0.51	
	Back	0.792	0.337	0.339	0.140	1.13	1.27	
	Left side					0.00	0.00	
	Right side	0.437	0.112	0.354		0.55	0.79	
LTE Band 71 Ant 4	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	0.363				0.36	0.36	
	Front	0.109	0.105	0.055		0.21	0.16	
	Back	0.250	0.337	0.339	0.140	0.59	0.73	
	Left side	0.120				0.12	0.12	
LTE Band 12 Ant 0	Right side		0.112	0.354		0.11	0.35	
	Top side	0.226	0.167	0.234	0.113	0.39	0.57	
	Bottom side					0.00	0.00	
	Front	0.449	0.105	0.055		0.55	0.50	
	Back	0.776	0.337	0.339	0.140	1.11	1.26	
LTE Band 12 Ant 4	Left side					0.00	0.00	
	Right side	0.386	0.112	0.354		0.50	0.74	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	0.413				0.41	0.41	
	Front	0.188	0.105	0.055		0.29	0.24	
LTE Band 12 Ant 0	Back	0.962	0.337	0.339	0.140	1.30	1.44	
	Left side	0.111				0.11	0.11	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.386	0.167	0.234	0.113	0.55	0.73	
	Bottom side					0.00	0.00	
LTE Band 12 Ant 4	Front	0.419	0.105	0.055		0.52	0.47	
	Back	0.985	0.337	0.339	0.140	1.32	1.46	
	Left side					0.00	0.00	
	Right side	0.482	0.112	0.354		0.59	0.84	
	Top side		0.167	0.234	0.113	0.17	0.35	
LTE Band 13 Ant 0	Bottom side	0.650				0.65	0.65	
	Front	0.259	0.105	0.055		0.36	0.31	
	Back	0.820	0.337	0.339	0.140	1.16	1.30	
	Left side	0.201				0.20	0.20	
	Right side		0.112	0.354		0.11	0.35	
LTE Band 13 Ant 4	Top side	0.339	0.167	0.234	0.113	0.51	0.69	
	Bottom side					0.00	0.00	
	Front	0.502	0.105	0.055		0.61	0.56	
	Back	1.004	0.337	0.339	0.140	1.34	1.48	
	Left side					0.00	0.00	
LTE Band 14 Ant 0	Right side	0.579	0.112	0.354		0.69	0.93	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	0.852				0.85	0.85	
	Front	0.286	0.105	0.055		0.39	0.34	
	Back	0.869	0.337	0.339	0.140	1.21	1.35	
LTE Band 14 Ant 4	Left side	0.220				0.22	0.22	
	Right side		0.112	0.354		0.11	0.35	



	Top side	0.396	0.167	0.234	0.113	0.56	0.74	
	Bottom side					0.00	0.00	
LTE Band 26 Ant 0	Front	0.527	0.105	0.055		0.63	0.58	
	Back	1.214	0.337	0.339	0.140	1.55	1.69	Case1
	Left side					0.00	0.00	
	Right side	0.424	0.112	0.354		0.54	0.78	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	1.184				1.18	1.18	
LTE Band 26 Ant 4	Front	0.336	0.105	0.055		0.44	0.39	
	Back	0.900	0.337	0.339	0.140	1.24	1.38	
	Left side	0.154				0.15	0.15	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.509	0.167	0.234	0.113	0.68	0.86	
	Bottom side					0.00	0.00	
LTE Band 66 Ant 0	Front	0.701	0.105	0.055		0.81	0.76	
	Back	0.715	0.337	0.339	0.140	1.05	1.19	
	Left side					0.00	0.00	
	Right side	0.081	0.112	0.354		0.19	0.44	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	1.138				1.14	1.14	
LTE Band 66 Ant 4	Front	0.312	0.105	0.055		0.42	0.37	
	Back	0.477	0.337	0.339	0.140	0.81	0.96	
	Left side	0.070				0.07	0.07	
	Right side		0.112	0.354		0.11	0.35	
	Top side	1.001	0.167	0.234	0.113	1.17	1.35	
	Bottom side					0.00	0.00	
LTE Band 25 Ant 0	Front	0.538	0.105	0.055		0.64	0.59	
	Back	0.887	0.337	0.339	0.140	1.22	1.37	
	Left side					0.00	0.00	
	Right side	0.063	0.112	0.354		0.18	0.42	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	1.243				1.24	1.24	
LTE Band 25 Ant 4	Front	0.419	0.105	0.055		0.52	0.47	
	Back	0.523	0.337	0.339	0.140	0.86	1.00	
	Left side	0.110				0.11	0.11	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.967	0.167	0.234	0.113	1.13	1.31	
	Bottom side					0.00	0.00	
LTE Band 30 Ant 1	Front	0.420	0.105	0.055		0.53	0.48	
	Back	1.057	0.337	0.339	0.140	1.39	1.54	
	Left side	0.449				0.45	0.45	
	Right side		0.112	0.354		0.11	0.35	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	0.534				0.53	0.53	
LTE Band 30 Ant 4	Front	0.285	0.105	0.055		0.39	0.34	
	Back	0.489	0.337	0.339	0.140	0.83	0.97	
	Left side					0.00	0.00	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.819	0.167	0.234	0.113	0.99	1.17	
	Bottom side					0.00	0.00	
LTE Band 7 Ant 1	Front	0.452	0.105	0.055		0.56	0.51	
	Back	1.240	0.337	0.339	0.140	1.58	1.72	Case2
	Left side	0.383				0.38	0.38	
	Right side		0.112	0.354		0.11	0.35	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	0.580				0.58	0.58	



LTE Band 7 Ant 4	Front	0.225	0.105	0.055		0.33	0.28	
	Back	0.416	0.337	0.339	0.140	0.75	0.90	
	Left side					0.00	0.00	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.828	0.167	0.234	0.113	1.00	1.18	
	Bottom side					0.00	0.00	
LTE Band 41 Ant 1	Front	0.488	0.105	0.055		0.59	0.54	
	Back	1.137	0.337	0.339	0.140	1.47	1.62	Case3
	Left side	0.445				0.45	0.45	
	Right side		0.112	0.354		0.11	0.35	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	0.768				0.77	0.77	
LTE Band 48 Ant 5	Front	0.263	0.105	0.055		0.37	0.32	
	Back	0.629	0.337	0.339	0.140	0.97	1.11	
	Left side	0.042				0.04	0.04	
	Right side	0.231	0.112	0.354		0.34	0.59	
	Top side	0.176	0.167	0.234	0.113	0.34	0.52	
	Bottom side					0.00	0.00	

WWAN Band	Exposure Position	1	3	10	17	1+3	1+10+17	Case No
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
FR1 n71 Ant 0	Front	0.174	0.105	0.055		0.28	0.23	
	Back	0.325	0.337	0.339	0.140	0.66	0.80	
	Left side					0.00	0.00	
	Right side	0.434	0.112	0.354		0.55	0.79	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	0.225				0.23	0.23	
FR1 n71 Ant 4	Front	0.108	0.105	0.055		0.21	0.16	
	Back	0.251	0.337	0.339	0.140	0.59	0.73	
	Left side	0.111				0.11	0.11	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.181	0.167	0.234	0.113	0.35	0.53	
	Bottom side					0.00	0.00	
FR1 n12 Ant 0	Front	0.367	0.105	0.055		0.47	0.42	
	Back	0.557	0.337	0.339	0.140	0.89	1.04	
	Left side					0.00	0.00	
	Right side	0.627	0.112	0.354		0.74	0.98	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	0.399				0.40	0.40	
FR1 n12 Ant 4	Front	0.153	0.105	0.055		0.26	0.21	
	Back	0.555	0.337	0.339	0.140	0.89	1.03	
	Left side	0.113				0.11	0.11	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.468	0.167	0.234	0.113	0.64	0.82	
	Bottom side					0.00	0.00	
FR1 n14 Ant 0	Front	0.548	0.105	0.055		0.65	0.60	
	Back	1.066	0.337	0.339	0.140	1.40	1.55	
	Left side					0.00	0.00	
	Right side	0.579	0.112	0.354		0.69	0.93	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	0.961				0.96	0.96	
FR1 n14 Ant 4	Front	0.271	0.105	0.055		0.38	0.33	
	Back	0.707	0.337	0.339	0.140	1.04	1.19	
	Left side	0.128				0.13	0.13	



	Right side		0.112	0.354		0.11	0.35	
	Top side	0.499	0.167	0.234	0.113	0.67	0.85	
	Bottom side					0.00	0.00	
FR1 n26 Ant 0	Front	0.592	0.105	0.055		0.70	0.65	
	Back	1.127	0.337	0.339	0.140	1.46	1.61	Case4
	Left side					0.00	0.00	
	Right side	0.385	0.112	0.354		0.50	0.74	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	1.007				1.01	1.01	
FR1 n26 Ant 4	Front	0.313	0.105	0.055		0.42	0.37	
	Back	0.908	0.337	0.339	0.140	1.25	1.39	
	Left side	0.161				0.16	0.16	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.503	0.167	0.234	0.113	0.67	0.85	
	Bottom side					0.00	0.00	
FR1 n70 Ant 0	Front	0.679	0.105	0.055		0.78	0.73	
	Back	0.717	0.337	0.339	0.140	1.05	1.20	
	Left side					0.00	0.00	
	Right side	0.095	0.112	0.354		0.21	0.45	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	1.206				1.21	1.21	
FR1 n70 Ant 4	Front	0.482	0.105	0.055		0.59	0.54	
	Back	0.762	0.337	0.339	0.140	1.10	1.24	
	Left side	0.070				0.07	0.07	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.877	0.167	0.234	0.113	1.04	1.22	
	Bottom side					0.00	0.00	
FR1 n66 Ant 0	Front	0.695	0.105	0.055		0.80	0.75	
	Back	0.905	0.337	0.339	0.140	1.24	1.38	
	Left side					0.00	0.00	
	Right side	0.084	0.112	0.354		0.20	0.44	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	1.237				1.24	1.24	
FR1 n66 Ant 4	Front	0.411	0.105	0.055		0.52	0.47	
	Back	0.612	0.337	0.339	0.140	0.95	1.09	
	Left side	0.087				0.09	0.09	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.981	0.167	0.234	0.113	1.15	1.33	
	Bottom side					0.00	0.00	
FR1 n25 Ant 0	Front	0.542	0.105	0.055		0.65	0.60	
	Back	0.908	0.337	0.339	0.140	1.25	1.39	
	Left side					0.00	0.00	
	Right side	0.072	0.112	0.354		0.18	0.43	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	1.164				1.16	1.16	
FR1 n25 Ant 4	Front	0.503	0.105	0.055		0.61	0.56	
	Back	0.695	0.337	0.339	0.140	1.03	1.17	
	Left side	0.138				0.14	0.14	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.920	0.167	0.234	0.113	1.09	1.27	
	Bottom side					0.00	0.00	
FR1 n30 Ant 1	Front	0.423	0.105	0.055		0.53	0.48	
	Back	1.143	0.337	0.339	0.140	1.48	1.62	Case5
	Left side	0.407				0.41	0.41	
	Right side		0.112	0.354		0.11	0.35	
	Top side		0.167	0.234	0.113	0.17	0.35	



FR1 n30 Ant 4	Bottom side	0.607				0.61	0.61	
	Front	0.314	0.105	0.055		0.42	0.37	
	Back	0.656	0.337	0.339	0.140	0.99	1.14	
	Left side					0.00	0.00	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.936	0.167	0.234	0.113	1.10	1.28	
	Bottom side					0.00	0.00	
FR1 n7 Ant 1	Front	0.513	0.105	0.055		0.62	0.57	
	Back	1.221	0.337	0.339	0.140	1.56	1.70	Case6
	Left side	0.462				0.46	0.46	
	Right side		0.112	0.354		0.11	0.35	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	0.620				0.62	0.62	
FR1 n7 Ant 4	Front	0.309	0.105	0.055		0.41	0.36	
	Back	0.558	0.337	0.339	0.140	0.90	1.04	
	Left side					0.00	0.00	
	Right side		0.112	0.354		0.11	0.35	
	Top side	0.995	0.167	0.234	0.113	1.16	1.34	
	Bottom side					0.00	0.00	
FR1 n41 Ant 1	Front	0.590	0.105	0.055		0.70	0.65	
	Back	1.247	0.337	0.339	0.140	1.58	1.73	Case7
	Left side	0.531				0.53	0.53	
	Right side		0.112	0.354		0.11	0.35	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	0.714				0.71	0.71	
FR1 n41 Ant 2	Front		0.105	0.055		0.11	0.06	
	Back	0.879	0.337	0.339	0.140	1.22	1.36	
	Left side	0.142				0.14	0.14	
	Right side		0.112	0.354		0.11	0.35	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side					0.00	0.00	
FR1 n41 Ant 4	Front	0.296	0.105	0.055		0.40	0.35	
	Back	0.607	0.337	0.339	0.140	0.94	1.09	
	Left side					0.00	0.00	
	Right side		0.112	0.354		0.11	0.35	
	Top side	1.029	0.167	0.234	0.113	1.20	1.38	
	Bottom side					0.00	0.00	
FR1 n41 Ant 7	Front	0.229	0.105	0.055		0.33	0.28	
	Back	0.960	0.337	0.339	0.140	1.30	1.44	
	Left side					0.00	0.00	
	Right side	0.404	0.112	0.354		0.52	0.76	
	Top side	0.196	0.167	0.234	0.113	0.36	0.54	
	Bottom side					0.00	0.00	
FR1 n48 Ant 5	Front	0.347	0.105	0.055		0.45	0.40	
	Back	0.887	0.337	0.339	0.140	1.22	1.37	
	Left side					0.00	0.00	
	Right side	0.332	0.112	0.354		0.44	0.69	
	Top side	0.366	0.167	0.234	0.113	0.53	0.71	
	Bottom side					0.00	0.00	
FR1 n77 Ant 5	Front	0.792	0.105	0.055		0.90	0.85	
	Back	0.976	0.337	0.339	0.140	1.31	1.46	
	Left side	0.106				0.11	0.11	
	Right side	0.520	0.112	0.354		0.63	0.87	
	Top side	0.933	0.167	0.234	0.113	1.10	1.28	
	Bottom side					0.00	0.00	
FR1 n77 Ant 1	Front	0.181	0.105	0.055		0.29	0.24	



	Back	0.987	0.337	0.339	0.140	1.32	1.47	
	Left side	0.164				0.16	0.16	
	Right side		0.112	0.354		0.11	0.35	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side	0.501				0.50	0.50	
FR1 n77 Ant 2	Front		0.105	0.055		0.11	0.06	
	Back	0.963	0.337	0.339	0.140	1.30	1.44	
	Left side	0.177				0.18	0.18	
	Right side		0.112	0.354		0.11	0.35	
	Top side		0.167	0.234	0.113	0.17	0.35	
	Bottom side					0.00	0.00	
FR1 n77 Ant 8	Front		0.105	0.055		0.11	0.06	
	Back	0.841	0.337	0.339	0.140	1.18	1.32	
	Left side					0.00	0.00	
	Right side	0.298	0.112	0.354		0.41	0.65	
	Top side	0.067	0.167	0.234	0.113	0.23	0.41	
	Bottom side					0.00	0.00	



17.4 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	3	10	17	1+3	1+10+17	Case No
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GSM850 Ant 0	Front	0.547	0.156	0.333		0.70	0.88	
	Back	0.835	0.341	0.392	0.140	1.18	1.37	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
GSM850 Ant 4	Front	0.496	0.156	0.333		0.65	0.83	
	Back	0.939	0.341	0.392	0.140	1.28	1.47	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
GSM1900 Ant 0	Front	0.423	0.156	0.333		0.58	0.76	
	Back	0.882	0.341	0.392	0.140	1.22	1.41	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
GSM1900 Ant 4	Front	0.439	0.156	0.333		0.60	0.77	
	Back	0.511	0.341	0.392	0.140	0.85	1.04	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
WCDMA V Ant 0	Front	0.383	0.156	0.333		0.54	0.72	
	Back	1.060	0.341	0.392	0.140	1.40	1.59	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
WCDMA V Ant 4	Front	0.357	0.156	0.333		0.51	0.69	
	Back	0.877	0.341	0.392	0.140	1.22	1.41	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
WCDMA IV Ant 0	Front	0.692	0.156	0.333		0.85	1.03	
	Back	0.721	0.341	0.392	0.140	1.06	1.25	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
WCDMA IV Ant 4	Front	0.309	0.156	0.333		0.47	0.64	
	Back	0.618	0.341	0.392	0.140	0.96	1.15	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
WCDMA II Ant 0	Front	0.490	0.156	0.333		0.65	0.82	
	Back	0.743	0.341	0.392	0.140	1.08	1.28	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
WCDMA II Ant 4	Front	0.322	0.156	0.333		0.48	0.66	
	Back	0.661	0.341	0.392	0.140	1.00	1.19	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 71 Ant 0	Front	0.455	0.156	0.333		0.61	0.79	
	Back	0.792	0.341	0.392	0.140	1.13	1.32	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 71 Ant 4	Front	0.109	0.156	0.333		0.27	0.44	
	Back	0.250	0.341	0.392	0.140	0.59	0.78	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 12 Ant 0	Front	0.449	0.156	0.333		0.61	0.78	
	Back	0.776	0.341	0.392	0.140	1.12	1.31	



	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 12 Ant 4	Front	0.188	0.156	0.333		0.34	0.52	
	Back	0.962	0.341	0.392	0.140	1.30	1.49	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 13 Ant 0	Front	0.419	0.156	0.333		0.58	0.75	
	Back	0.985	0.341	0.392	0.140	1.33	1.52	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 13 Ant 4	Front	0.259	0.156	0.333		0.42	0.59	
	Back	0.820	0.341	0.392	0.140	1.16	1.35	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 14 Ant 0	Front	0.502	0.156	0.333		0.66	0.84	
	Back	1.004	0.341	0.392	0.140	1.35	1.54	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 14 Ant 4	Front	0.286	0.156	0.333		0.44	0.62	
	Back	0.869	0.341	0.392	0.140	1.21	1.40	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 26 Ant 0	Front	0.527	0.156	0.333		0.68	0.86	
	Back	1.214	0.341	0.392	0.140	1.56	1.75	Case8
	Front with Headset					0.00	0.00	
	Back with Headset	1.060				1.06	1.06	
LTE Band 26 Ant 4	Front	0.336	0.156	0.333		0.49	0.67	
	Back	0.900	0.341	0.392	0.140	1.24	1.43	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 66 Ant 0	Front	0.701	0.156	0.333		0.86	1.03	
	Back	0.715	0.341	0.392	0.140	1.06	1.25	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 66 Ant 4	Front	0.312	0.156	0.333		0.47	0.65	
	Back	0.477	0.341	0.392	0.140	0.82	1.01	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 25 Ant 0	Front	0.538	0.156	0.333		0.69	0.87	
	Back	0.887	0.341	0.392	0.140	1.23	1.42	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 25 Ant 4	Front	0.419	0.156	0.333		0.58	0.75	
	Back	0.523	0.341	0.392	0.140	0.86	1.06	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 30 Ant 1	Front	0.420	0.156	0.333		0.58	0.75	
	Back	1.057	0.341	0.392	0.140	1.40	1.59	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 30 Ant 4	Front	0.285	0.156	0.333		0.44	0.62	
	Back	0.489	0.341	0.392	0.140	0.83	1.02	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 7 Ant 1	Front	0.452	0.156	0.333		0.61	0.79	
	Back	1.081	0.341	0.392	0.140	1.42	1.61	Case9



	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 7 Ant 4	Front	0.225	0.156	0.333		0.38	0.56	
	Back	0.416	0.341	0.392	0.140	0.76	0.95	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 41 Ant 1	Front	0.488	0.156	0.333		0.64	0.82	
	Back	1.137	0.341	0.392	0.140	1.48	1.67	Case10
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
LTE Band 48 Ant 5	Front	0.263	0.156	0.333		0.42	0.60	
	Back	0.629	0.341	0.392	0.140	0.97	1.16	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	

WWAN Band	Exposure Position	1	3	10	17	1+3	1+10+17	Case No
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
FR1 n71 Ant 0	Front	0.174	0.156	0.333		0.33	0.51	
	Back	0.325	0.341	0.392	0.140	0.67	0.86	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n71 Ant 4	Front	0.108	0.156	0.333		0.26	0.44	
	Back	0.251	0.341	0.392	0.140	0.59	0.78	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n12 Ant 0	Front	0.367	0.156	0.333		0.52	0.70	
	Back	0.557	0.341	0.392	0.140	0.90	1.09	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n12 Ant 4	Front	0.153	0.156	0.333		0.31	0.49	
	Back	0.555	0.341	0.392	0.140	0.90	1.09	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n14 Ant 0	Front	0.548	0.156	0.333		0.70	0.88	
	Back	1.066	0.341	0.392	0.140	1.41	1.60	Case11
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n14 Ant 4	Front	0.271	0.156	0.333		0.43	0.60	
	Back	0.707	0.341	0.392	0.140	1.05	1.24	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n26 Ant 0	Front	0.592	0.156	0.333		0.75	0.93	
	Back	1.127	0.341	0.392	0.140	1.47	1.66	Case12
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n26 Ant 4	Front	0.313	0.156	0.333		0.47	0.65	
	Back	0.908	0.341	0.392	0.140	1.25	1.44	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n70 Ant 0	Front	0.679	0.156	0.333		0.84	1.01	
	Back	0.717	0.341	0.392	0.140	1.06	1.25	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n70 Ant 4	Front	0.482	0.156	0.333		0.64	0.82	



	Back	0.762	0.341	0.392	0.140	1.10	1.29	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n66 Ant 0	Front	0.695	0.156	0.333		0.85	1.03	
	Back	0.905	0.341	0.392	0.140	1.25	1.44	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n66 Ant 4	Front	0.411	0.156	0.333		0.57	0.74	
	Back	0.612	0.341	0.392	0.140	0.95	1.14	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n25 Ant 0	Front	0.542	0.156	0.333		0.70	0.88	
	Back	0.908	0.341	0.392	0.140	1.25	1.44	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n25 Ant 4	Front	0.503	0.156	0.333		0.66	0.84	
	Back	0.695	0.341	0.392	0.140	1.04	1.23	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n30 Ant 1	Front	0.423	0.156	0.333		0.58	0.76	
	Back	1.143	0.341	0.392	0.140	1.48	1.68	Case13
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n30 Ant 4	Front	0.314	0.156	0.333		0.47	0.65	
	Back	0.656	0.341	0.392	0.140	1.00	1.19	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n7 Ant 1	Front	0.513	0.156	0.333		0.67	0.85	
	Back	1.221	0.341	0.392	0.140	1.56	1.75	Case14
	Front with Headset					0.00	0.00	
	Back with Headset	1.131				1.13	1.13	
FR1 n7 Ant 4	Front	0.309	0.156	0.333		0.47	0.64	
	Back	0.558	0.341	0.392	0.140	0.90	1.09	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n41 Ant 1	Front	0.590	0.156	0.333		0.75	0.92	
	Back	1.234	0.341	0.392	0.140	1.58	1.77	Case15
	Front with Headset					0.00	0.00	
	Back with Headset	1.098				1.10	1.10	
FR1 n41 Ant 2	Front		0.156	0.333		0.16	0.33	
	Back	0.879	0.341	0.392	0.140	1.22	1.41	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n41 Ant 4	Front	0.296	0.156	0.333		0.45	0.63	
	Back	0.607	0.341	0.392	0.140	0.95	1.14	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n41 Ant 7	Front	0.229	0.156	0.333		0.39	0.56	
	Back	0.960	0.341	0.392	0.140	1.30	1.49	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n48 Ant 5	Front	0.347	0.156	0.333		0.50	0.68	
	Back	0.887	0.341	0.392	0.140	1.23	1.42	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n77 Ant 5	Front	0.792	0.156	0.333		0.95	1.13	



	Back	0.976	0.341	0.392	0.140	1.32	1.51	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n77 Ant 1	Front	0.181	0.156	0.333		0.34	0.51	
	Back	0.987	0.341	0.392	0.140	1.33	1.52	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n77 Ant 2	Front		0.156	0.333		0.16	0.33	
	Back	0.963	0.341	0.392	0.140	1.30	1.50	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	
FR1 n77 Ant 8	Front		0.156	0.333		0.16	0.33	
	Back	0.841	0.341	0.392	0.140	1.18	1.37	
	Front with Headset					0.00	0.00	
	Back with Headset					0.00	0.00	



17.5 Product specific 10g SAR Exposure Conditions

Remark:

1. For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.
2. The unit of SAR evaluation is W/kg.

WWAN Band	Exposure Position	1	3	10	1+3	1+10
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Summed	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
GSM850 Ant 0	Front		0.957	0.481	0.96	0.48
	Back	1.394	0.183	0.740	1.58	2.13
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	2.067			2.07	2.07
GSM850 Ant 4	Front		0.957	0.481	0.96	0.48
	Back	1.659	0.183	0.740	1.84	2.40
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side				0.00	0.00
GSM1900 Ant 0	Front	1.527	0.957	0.481	2.48	2.01
	Back	2.123	0.183	0.740	2.31	2.86
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	2.556			2.56	2.56
GSM1900 Ant 4	Front		0.957	0.481	0.96	0.48
	Back	1.437	0.183	0.740	1.62	2.18
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side	2.644	0.134	0.865	2.78	3.51
	Bottom side				0.00	0.00
WCDMA V Ant 0	Front		0.957	0.481	0.96	0.48
	Back	1.737	0.183	0.740	1.92	2.48
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	2.304			2.30	2.30
WCDMA V Ant 4	Front		0.957	0.481	0.96	0.48
	Back	1.619	0.183	0.740	1.80	2.36
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side				0.00	0.00
WCDMA IV Ant 0	Front	1.699	0.957	0.481	2.66	2.18
	Back	2.003	0.183	0.740	2.19	2.74
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	2.308			2.31	2.31
WCDMA IV Ant 4	Front		0.957	0.481	0.96	0.48
	Back	1.309	0.183	0.740	1.49	2.05
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side	2.462	0.134	0.865	2.60	3.33



	Bottom side				0.00	0.00
WCDMA II Ant 0	Front	1.154	0.957	0.481	2.11	1.64
	Back	1.284	0.183	0.740	1.47	2.02
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	2.471			2.47	2.47
WCDMA II Ant 4	Front	1.124	0.957	0.481	2.08	1.61
	Back	1.545	0.183	0.740	1.73	2.29
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side	2.474	0.134	0.865	2.61	3.34
	Bottom side				0.00	0.00
LTE Band 13 Ant 0	Front		0.957	0.481	0.96	0.48
	Back	2.143	0.183	0.740	2.33	2.88
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side				0.00	0.00
LTE Band 14 Ant 0	Front		0.957	0.481	0.96	0.48
	Back	2.046	0.183	0.740	2.23	2.79
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	2.106			2.11	2.11
LTE Band 26 Ant 0	Front		0.957	0.481	0.96	0.48
	Back	1.704	0.183	0.740	1.89	2.44
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	2.294			2.29	2.29
LTE Band 26 Ant 4	Front		0.957	0.481	0.96	0.48
	Back	2.296	0.183	0.740	2.48	3.04
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side				0.00	0.00
LTE Band 66 Ant 0	Front	2.157	0.957	0.481	3.11	2.64
	Back	2.253	0.183	0.740	2.44	2.99
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	2.763			2.76	2.76
LTE Band 66 Ant 4	Front		0.957	0.481	0.96	0.48
	Back	1.455	0.183	0.740	1.64	2.20
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side	2.740	0.134	0.865	2.87	3.61
	Bottom side				0.00	0.00
LTE Band 25 Ant 0	Front	1.356	0.957	0.481	2.31	1.84
	Back	1.572	0.183	0.740	1.76	2.31
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	2.699			2.70	2.70
LTE Band 25 Ant 4	Front	1.457	0.957	0.481	2.41	1.94



	Back	1.788	0.183	0.740	1.97	2.53
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side	2.656	0.134	0.865	2.79	3.52
	Bottom side				0.00	0.00
LTE Band 30 Ant 1	Front		0.957	0.481	0.96	0.48
	Back	2.694	0.183	0.740	2.88	3.43
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
LTE Band 30 Ant 4	Bottom side				0.00	0.00
	Front		0.957	0.481	0.96	0.48
	Back	0.978	0.183	0.740	1.16	1.72
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
LTE Band 7 Ant 1	Top side	2.270	0.134	0.865	2.40	3.14
	Bottom side				0.00	0.00
	Front	0.938	0.957	0.481	1.90	1.42
	Back	2.657	0.183	0.740	2.84	3.40
	Left side	0.927			0.93	0.93
LTE Band 7 Ant 4	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	1.411			1.41	1.41
	Front	0.784	0.957	0.481	1.74	1.27
	Back	1.309	0.183	0.740	1.49	2.05
LTE Band 41 Ant 1	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side	2.505	0.134	0.865	2.64	3.37
	Bottom side				0.00	0.00
	Front		0.957	0.481	0.96	0.48
LTE Band 48 Ant 5	Back	2.669	0.183	0.740	2.85	3.41
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	1.469			1.47	1.47
LTE Band 48 Ant 5	Front	1.611	0.957	0.481	2.57	2.09
	Back	1.912	0.183	0.740	2.10	2.65
	Left side				0.00	0.00
	Right side	0.680	1.216	1.074	1.90	1.75
	Top side		0.134	0.865	0.13	0.87
	Bottom side				0.00	0.00



WWAN Band	Exposure Position	1	3	10	1+3	1+10
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Summed	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
FR1 n14 Ant 0	Front		0.957	0.481	0.96	0.48
	Back	1.594	0.183	0.740	1.78	2.33
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	1.793			1.79	1.79
FR1 n26 Ant 0	Front		0.957	0.481	0.96	0.48
	Back	0.975	0.183	0.740	1.16	1.72
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	1.624			1.62	1.62
FR1 n26 Ant 4	Front		0.957	0.481	0.96	0.48
	Back	1.186	0.183	0.740	1.37	1.93
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side				0.00	0.00
FR1 n70 Ant 0	Front	1.529	0.957	0.481	2.49	2.01
	Back	1.496	0.183	0.740	1.68	2.24
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	2.424			2.42	2.42
FR1 n70 Ant 4	Front		0.957	0.481	0.96	0.48
	Back	1.513	0.183	0.740	1.70	2.25
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side	2.693	0.134	0.865	2.83	3.56
	Bottom side				0.00	0.00
FR1 n25 Ant 4	Front	1.328	0.957	0.481	2.29	1.81
	Back	1.539	0.183	0.740	1.72	2.28
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side	2.601	0.134	0.865	2.74	3.47
	Bottom side				0.00	0.00
FR1 n30 Ant 1	Front		0.957	0.481	0.96	0.48
	Back	2.644	0.183	0.740	2.83	3.38
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	1.030			1.03	1.03
FR1 n30 Ant 4	Front		0.957	0.481	0.96	0.48
	Back	1.019	0.183	0.740	1.20	1.76
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side	2.540	0.134	0.865	2.67	3.41
	Bottom side				0.00	0.00
FR1 n7 Ant 1	Front	1.069	0.957	0.481	2.03	1.55
	Back	2.593	0.183	0.740	2.78	3.33
	Left side	1.059			1.06	1.06
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	1.430			1.43	1.43
FR1 n7 Ant 4	Front	0.866	0.957	0.481	1.82	1.35
	Back	1.411	0.183	0.740	1.59	2.15

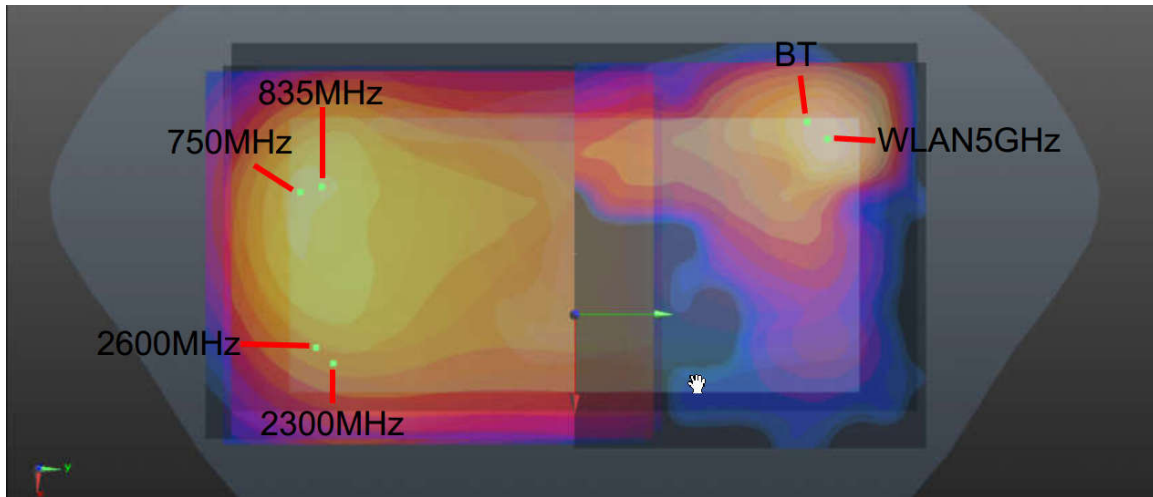


	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side	2.708	0.134	0.865	2.84	3.57
	Bottom side				0.00	0.00
FR1 n41 Ant 1	Front	1.172	0.957	0.481	2.13	1.65
	Back	2.695	0.183	0.740	2.88	3.44
	Left side	1.235			1.24	1.24
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	1.497			1.50	1.50
FR1 n41 Ant 2	Front		0.957	0.481	0.96	0.48
	Back	2.731	0.183	0.740	2.91	3.47
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side				0.00	0.00
FR1 n41 Ant 4	Front		0.957	0.481	0.96	0.48
	Back		0.183	0.740	0.18	0.74
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side	2.383	0.134	0.865	2.52	3.25
	Bottom side				0.00	0.00
FR1 n41 Ant 7	Front		0.957	0.481	0.96	0.48
	Back	2.133	0.183	0.740	2.32	2.87
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side				0.00	0.00
FR1 n48 Ant 5	Front	1.629	0.957	0.481	2.59	2.11
	Back	2.438	0.183	0.740	2.62	3.18
	Left side				0.00	0.00
	Right side	0.956	1.216	1.074	2.17	2.03
	Top side	1.519	0.134	0.865	1.65	2.38
	Bottom side				0.00	0.00
FR1 n77 Ant 5	Front	1.863	0.957	0.481	2.82	2.34
	Back	2.385	0.183	0.740	2.57	3.13
	Left side				0.00	0.00
	Right side	1.475	1.216	1.074	2.69	2.55
	Top side	2.496	0.134	0.865	2.63	3.36
	Bottom side				0.00	0.00
FR1 n77 Ant 1	Front		0.957	0.481	0.96	0.48
	Back	2.439	0.183	0.740	2.62	3.18
	Left side				0.00	0.00
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side	0.724			0.72	0.72
FR1 n77 Ant 2	Front		0.957	0.481	0.96	0.48
	Back	2.478	0.183	0.740	2.66	3.22
	Left side	0.786			0.79	0.79
	Right side		1.216	1.074	1.22	1.07
	Top side		0.134	0.865	0.13	0.87
	Bottom side				0.00	0.00
FR1 n77 Ant 8	Front		0.957	0.481	0.96	0.48
	Back	2.728	0.183	0.740	2.91	3.47
	Left side				0.00	0.00
	Right side	1.364	1.216	1.074	2.58	2.44
	Top side		0.134	0.865	0.13	0.87
	Bottom side				0.00	0.00

17.6 SPLSR Evaluation and Analysis

General Note:

- When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
- $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR, simultaneously transmission SAR measurement is not necessary.



WWAN+ WLAN 5GHz+ BT_ Back 5mm

For Hotspot

	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 1	LTE Band 26	Back	1.214	5mm	-0.0365	-0.072	-0.205	142.7	1.55	0.01	Not required
	WLAN5GHz		0.339	5mm	-0.05	0.07	-0.207				
	LTE Band 26	Back	1.214	5mm	-0.0365	-0.072	-0.205	139.5	1.35	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
WLAN5GHz	0.339	5mm	-0.05	0.07	-0.207	8.1	0.48	0.04	Not required		
Case 2	LTE Band 7	Back	1.24	5mm	0.0008	-0.0724	-0.205	151.2	1.58	0.01	Not required
	WLAN5GHz		0.339	5mm	-0.05	0.07	-0.207				
	LTE Band 7	Back	1.24	5mm	0.0008	-0.0724	-0.205	150.0	1.38	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
WLAN5GHz	0.339	5mm	-0.05	0.07	-0.207	8.1	0.48	0.04	Not required		
Case 3	LTE Band 41	Back	1.137	5mm	-0.0002	-0.0604	-0.204	139.6	1.48	0.01	Not required
	WLAN5GHz		0.339	5mm	-0.05	0.07	-0.207				
	LTE Band 41	Back	1.137	5mm	-0.0002	-0.0604	-0.204	138.6	1.28	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
WLAN5GHz	0.339	5mm	-0.05	0.07	-0.207	8.1	0.48	0.04	Not required		
Case 4	FR1 n26	Back	1.127	5mm	-0.0485	-0.085	-0.205	155.0	1.47	0.01	Not required
	WLAN5GHz		0.339	5mm	-0.05	0.07	-0.207				



	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n26	Back	1.127	5mm	-0.0485	-0.085	-0.205	151.3	1.27	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	Bluetooth	Back	0.14	5mm	-0.057	0.066	-0.207	8.1	0.48	0.04	Not required
	WLAN5GHz		0.339	5mm	-0.05	0.07	-0.207				
Case 5	FR1 n30	Back	1.143	5mm	0.0088	-0.0736	-0.204	155.2	1.48	0.01	Not required
	WLAN5GHz		0.339	5mm	-0.05	0.07	-0.207				
	FR1 n30	Back	1.143	5mm	0.0088	-0.0736	-0.204	154.4	1.28	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	Bluetooth	Back	0.14	5mm	-0.057	0.066	-0.207	8.1	0.48	0.04	Not required
	WLAN5GHz		0.339	5mm	-0.05	0.07	-0.207				
Case 6	FR1 n7	Back	1.221	5mm	0.0044	-0.0736	-0.204	153.6	1.56	0.01	Not required
	WLAN5GHz		0.339	5mm	-0.05	0.07	-0.207				
	FR1 n7	Back	1.221	5mm	0.0044	-0.0736	-0.204	152.5	1.36	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	Bluetooth	Back	0.14	5mm	-0.057	0.066	-0.207	8.1	0.48	0.04	Not required
	WLAN5GHz		0.339	5mm	-0.05	0.07	-0.207				
Case 7	FR1 n41	Back	1.247	5mm	0.0106	-0.0724	-0.204	154.8	1.59	0.01	Not required
	WLAN5GHz		0.339	5mm	-0.05	0.07	-0.207				
	FR1 n41	Back	1.247	5mm	0.0106	-0.0724	-0.204	154.1	1.39	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	Bluetooth	Back	0.14	5mm	-0.057	0.066	-0.207	8.1	0.48	0.04	Not required
	WLAN5GHz		0.339	5mm	-0.05	0.07	-0.207				

For Body

	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 8	LTE Band 26	Back	1.214	5mm	-0.0365	-0.072	-0.205	145.7	1.61	0.01	Not required
	WLAN5GHz		0.392	5mm	-0.051	0.073	-0.207				
	LTE Band 26	Back	1.214	5mm	-0.0365	-0.072	-0.205	139.5	1.35	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	WLAN5GHz	Back	0.392	5mm	-0.051	0.073	-0.207	9.2	0.53	0.04	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
Case 9	LTE Band 7	Back	1.081	5mm	0.0008	-0.0724	-0.205	154.4	1.47	0.01	Not required
	WLAN5GHz		0.392	5mm	-0.051	0.073	-0.207				
	LTE Band 7	Back	1.081	5mm	0.0008	-0.0724	-0.205	150.0	1.22	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	WLAN5GHz	Back	0.392	5mm	-0.051	0.073	-0.207	9.2	0.53	0.04	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
Case 10	LTE Band 41	Back	1.137	5mm	-0.0002	-0.0604	-0.204	142.8	1.53	0.01	Not required
	WLAN5GHz		0.392	5mm	-0.051	0.073	-0.207				
	LTE Band 41	Back	1.137	5mm	-0.0002	-0.0604	-0.204	138.6	1.28	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	WLAN5GHz	Back	0.392	5mm	-0.051	0.073	-0.207	9.2	0.53	0.04	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
Case 11	FR1 n14	Back	1.066	5mm	-0.05	-0.0805	-0.205	153.5	1.46	0.01	Not required
	WLAN5GHz		0.392	5mm	-0.051	0.073	-0.207				



Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 11	FR1 n14	Back	1.066	5mm	-0.05	-0.0805	-0.205	146.7	1.21	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	WLAN5GHz	Back	0.392	5mm	-0.051	0.073	-0.207	9.2	0.53	0.04	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
Case 12	FR1 n26	Back	1.127	5mm	-0.0485	-0.085	-0.205	158.0	1.52	0.01	Not required
	WLAN5GHz		0.392	5mm	-0.051	0.073	-0.207				
	FR1 n26	Back	1.127	5mm	-0.0485	-0.085	-0.205	151.3	1.27	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	WLAN5GHz	Back	0.392	5mm	-0.051	0.073	-0.207	9.2	0.53	0.04	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
Case 13	FR1 n30	Back	1.143	5mm	0.0088	-0.0736	-0.204	158.4	1.54	0.01	Not required
	WLAN5GHz		0.392	5mm	-0.051	0.073	-0.207				
	FR1 n30	Back	1.143	5mm	0.0088	-0.0736	-0.204	154.4	1.28	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	WLAN5GHz	Back	0.392	5mm	-0.051	0.073	-0.207	9.2	0.53	0.04	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
Case 14	FR1 n7	Back	1.221	5mm	0.0044	-0.0736	-0.204	156.7	1.61	0.01	Not required
	WLAN5GHz		0.392	5mm	-0.051	0.073	-0.207				
	FR1 n7	Back	1.221	5mm	0.0044	-0.0736	-0.204	152.5	1.36	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	WLAN5GHz	Back	0.392	5mm	-0.051	0.073	-0.207	9.2	0.53	0.04	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
Case 15	FR1 n41	Back	1.234	5mm	0.0106	-0.0724	-0.204	157.9	1.63	0.01	Not required
	WLAN5GHz		0.392	5mm	-0.051	0.073	-0.207				
	FR1 n41	Back	1.234	5mm	0.0106	-0.0724	-0.204	154.1	1.37	0.01	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				
	WLAN5GHz	Back	0.392	5mm	-0.051	0.073	-0.207	9.2	0.53	0.04	Not required
	Bluetooth		0.14	5mm	-0.057	0.066	-0.207				

18. Supplemental tuner tests results

General Note:

1. This device implements impedance tuner (144 states) antenna tuning techniques in the LTE Band 5/12/13/14/17/26, 5GNR n5/n12/n14/n26 for ANT0.
2. LTE B17 / B5 SAR test was covered by LTE B12 / B26; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
3. 5GNR n26 SAR test was covered by 5GNR n5; according to April 2015 TCB workshop, SAR test for overlapping NR bands can be reduced.
4. SAR test proposal was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
5. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
6. To evaluate all of the tuner states, the 144 tuner states for ANT0 is divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination.
7. According to April 2019 TCB workshop, total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
8. The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).
9. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

18.1 Supplemental Tuner Head & Body SAR Results

Please refer to Appendix F.

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19. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

20. References

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- [2] ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992
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- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, “RF Exposure Compliance Reporting and Documentation Considerations” Oct 2015.
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- [8] FCC KDB 248227 D01 v02r02, “SAR Guidance for IEEE 802.11 (WiFi) Transmitters”, Oct 2015.
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- [10] FCC KDB 941225 D01 v03r01, “3G SAR MEAUREMENT PROCEDURES”, Oct 2015
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- [12] FCC KDB 941225 D05A v01r02, “Rel. 10 LTE SAR Test Guidance and KDB Inquiries”, Oct 2015
- [13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [14] FCC KDB 447498 D01 v06, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, Oct 2015

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