

<3GPP 38.101 MPR for EN-DC>

Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5	≤ 0.5	0
	QPSK	≤ 3.5	≤ 1	0
	16 QAM	≤ 3.5	≤ 2	≤ 1
	64 QAM	≤ 3.5	≤ 2.5	
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3.5	≤ 3	≤ 1.5
	16 QAM	≤ 3.5	≤ 3	≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

ENDC	Main Antenna Tx	
	LTE TX	NR TX
DC_7A_n78A	ANT5	ANT2
DC_7A_n66A	ANT5	ANT1
DC_66A_n7A	ANT0	ANT1
DC_66A_n78A	ANT0	ANT2
DC_66A_n2A	ANT1	ANT0
DC_5A_n7A	ANT0	ANT1
DC_4A_n78A	ANT0	ANT2
DC_38A_n78A	ANT5	ANT2
DC_2A_n7A	ANT0	ANT1
DC_2A_n78A	ANT0	ANT2
DC_2A_n66A	ANT0	ANT1

<WLAN Conducted Power>

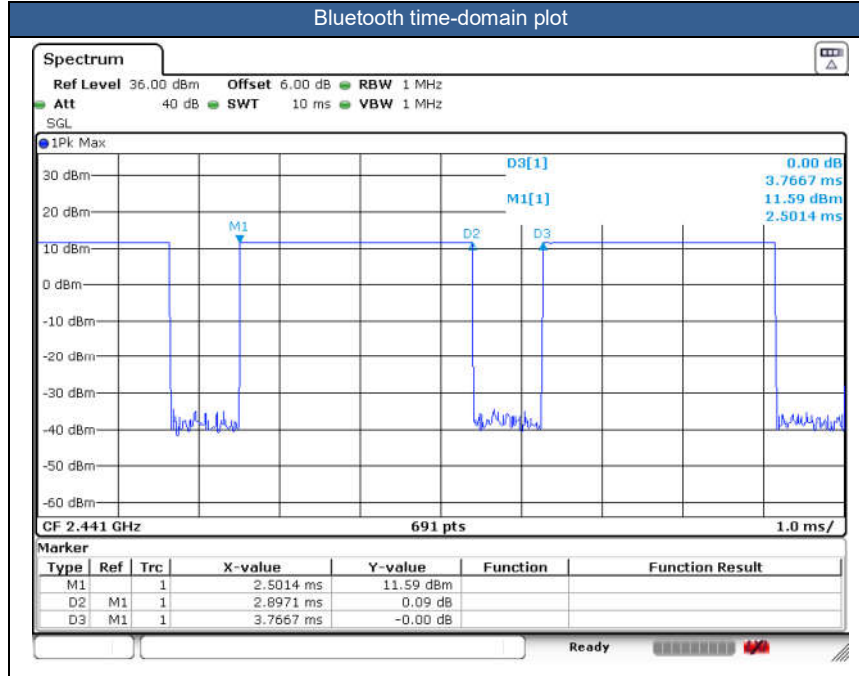
General Note:

1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
2. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
3. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
4. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. 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 ≤ 0.8 W/kg or all required test position are tested.
 - c. 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 ≤ 1.2 W/kg or all required channels are tested.

<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 76.91% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation





15. Antenna Location

The detailed antenna location information can refer to SAR Test Setup Photos.

16. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
 - d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - e. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - f. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg. 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.
4. There are two samples. The different between them refer to the XT2335-1_Operational Description of Product Equality Declaration which is exhibit separately. According to the differences, we choose sample 1 to perform full SAR testing and sample 2 to verify the worst case of sample 1.
5. The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
6. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to body-worn and Handheld. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn and Handheld.
7. For some WWAN bands, sensor on reduced power level is higher than hotspot reduced power level, so front/back sensor on SAR can represent hotspot conservatively.
8. For LTE Band 4/66 at Ant 1 and LTE Band 38 at Ant 5 test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
9. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
10. NSA and SA mode should perform SAR separately. For the maximum power of NSA mode is the same as SA total power level, so SA SAR can represent NSA mode SAR.
11. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
12. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
13. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
14. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2



W/kg SAR test reduction threshold.

- a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM850/1900, WCDMA Band II/IV/V, LTE Band 2/4/7/13/25/26/66/38/41/42, 5G NR n2/n7/n66 /n78, WLAN2.4/5.2/5.8GHz, therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
15. Although the headset SAR is greater than 0.8 W/kg, the headset SAR verified the worst of the non-headset SAR and less than non-headset SAR, so there is no need to be tested other channels.
16. Although the distance SAR is greater than 0.8 W/kg at body-worn exposure conditions, the distance SAR verified the worst of the non-distance SAR and less than non-distance SAR, so there is no need to be tested other channels.

GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is \leq ¼ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

WCDMA Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA / HSPA+ is \leq ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA / HSPA+ to RMC12.2Kbps and the adjusted SAR is \leq 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+ , and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA / HSPA+) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+.

LTE Note:

1. Per KDB 941225 D05v02r05, 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.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for 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.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is $>$ not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is \leq 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ not ½ 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; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B12 / B17 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, 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.
7. LTE B2 / B4 / B17 SAR test was covered by LTE B25 / B66 / B12; 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 ≤ 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 ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device

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 ≤ 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 ≤ 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 ≤ 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 ≤ 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

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 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																			
01	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	22.71	24.00	1.346	0.06	0.182	0.245
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	21.79	23.00	1.321	0.14	0.101	0.133
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	22.71	24.00	1.346	0.01	0.101	0.136
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	21.79	23.00	1.321	0.16	0.060	0.079
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	22.71	24.00	1.346	-0.14	0.159	0.214
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	21.79	23.00	1.321	-0.08	0.092	0.122
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	22.71	24.00	1.346	0.17	0.086	0.116
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	21.79	23.00	1.321	0.05	0.079	0.104
02	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	23230	782	1	22.38	24.00	1.452	0.06	0.240	0.349
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 2	23230	782	1	21.54	23.00	1.400	0.02	0.132	0.185
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	23230	782	1	22.38	24.00	1.452	0.14	0.124	0.18
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 2	23230	782	1	21.54	23.00	1.400	0.08	0.074	0.104
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	23230	782	1	22.38	24.00	1.452	-0.15	0.192	0.279
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 2	23230	782	1	21.54	23.00	1.400	-0.08	0.112	0.157
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	23230	782	1	22.38	24.00	1.452	-0.15	0.109	0.158
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 2	23230	782	1	21.54	23.00	1.400	-0.13	0.088	0.123
835MHz																			
03	GSM850	-	-	-	-	GPRS (2 Tx slots)	Right Cheek	0mm	Ant 0	DSI 2	189	836.4	1	30.88	32.00	1.294	0.16	0.334	0.432
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Right Tilted	0mm	Ant 0	DSI 2	189	836.4	1	30.88	32.00	1.294	0.04	0.182	0.236
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Left Cheek	0mm	Ant 0	DSI 2	189	836.4	1	30.88	32.00	1.294	0.05	0.285	0.369
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Left Tilted	0mm	Ant 0	DSI 2	189	836.4	1	30.88	32.00	1.294	-0.14	0.161	0.208
04	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	4182	836.4	1	23.24	24.00	1.191	-0.08	0.309	0.368
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	4182	836.4	1	23.24	24.00	1.191	0.17	0.161	0.192
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	4182	836.4	1	23.24	24.00	1.191	0.13	0.264	0.314
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	4182	836.4	1	23.24	24.00	1.191	-0.13	0.265	0.316
05	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	22.43	24.00	1.435	0.08	0.218	0.313
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	21.53	23.00	1.403	0.06	0.124	0.174
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	22.43	24.00	1.435	0.18	0.110	0.158
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	21.53	23.00	1.403	-0.12	0.063	0.088
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	22.43	24.00	1.435	0.05	0.203	0.291
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	21.53	23.00	1.403	-0.01	0.115	0.161
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	22.43	24.00	1.435	0.18	0.106	0.152
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	21.53	23.00	1.403	-0.12	0.059	0.083
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	20525	836.5	1	22.08	23.00	1.236	0.03	0.456	0.564
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	20525	836.5	1	21.14	22.00	1.219	0.07	0.263	0.321
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	20525	836.5	1	22.08	23.00	1.236	-0.09	0.401	0.496
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	20525	836.5	1	21.14	22.00	1.219	0.14	0.230	0.280
06	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	20525	836.5	1	22.08	23.00	1.236	-0.07	0.507	0.627
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	20525	836.5	2	22.08	23.00	1.236	0.09	0.465	0.575
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	20525	836.5	1	21.14	22.00	1.219	-0.03	0.289	0.352
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	20525	836.5	1	22.08	23.00	1.236	0.05	0.395	0.488
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	20525	836.5	1	21.14	22.00	1.219	0.01	0.226	0.275
07	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	1413	1732.6	1	23.17	24.00	1.211	-0.09	0.178	0.215
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	1413	1732.6	1	23.17	24.00	1.211	-0.15	0.082	0.099
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	1413	1732.6	1	23.17	24.00	1.211	0.09	0.112	0.136
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	1413	1732.6	1	23.17	24.00	1.211	-0.07	0.115	0.139
1750MHz																			
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	132322	1745	1	22.63	24.00	1.371	0.06	0.134	0.184
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	132322	1745	1	21.74	23.00	1.337	-0.11	0.075	0.100
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	132322	1745	1	22.63	24.00	1.371	0.15	0.062	0.085



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	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	132322	1745	1	21.74	23.00	1.337	-0.08	0.022	0.029
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	132322	1745	1	22.63	24.00	1.371	0.08	0.089	0.122
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	132322	1745	1	21.74	23.00	1.337	-0.05	0.051	0.068
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	132322	1745	1	22.63	24.00	1.371	-0.16	0.073	0.100
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	132322	1745	1	21.74	23.00	1.337	-0.04	0.039	0.052
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	1	23.22	24.00	1.197	0.04	0.879	1.052
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	132072	1720	1	23.18	24.00	1.208	-0.18	0.849	1.025
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	132572	1770	1	23.16	24.00	1.213	0.07	0.829	1.006
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	1	22.43	23.00	1.140	0.07	0.721	0.822
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	132072	1720	1	22.36	23.00	1.159	0.16	0.666	0.772
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	132572	1770	1	22.38	23.00	1.153	-0.17	0.703	0.811
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	1	21.88	23.00	1.294	0.1	0.495	0.641
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	1	23.22	24.00	1.197	0.09	0.950	1.137
08	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	132072	1720	1	23.18	24.00	1.208	-0.06	0.955	1.153
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2 Simultaneous	132072	1720	1	22.22	23.30	1.282	-0.01	0.744	0.954
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	132572	1770	1	23.16	24.00	1.213	-0.08	0.896	1.087
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	1	22.43	23.00	1.140	0.12	0.774	0.883
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	132072	1720	1	22.36	23.00	1.159	-0.11	0.711	0.824
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	132572	1770	1	22.38	23.00	1.153	-0.01	0.743	0.857
	LTE Band 66	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	1	21.88	23.00	1.294	0.02	0.567	0.734
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	1	23.22	24.00	1.197	0.02	0.755	0.904
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	132072	1720	1	23.18	24.00	1.208	0.09	0.712	0.860
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	132572	1770	1	23.16	24.00	1.213	-0.18	0.708	0.859
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	1	22.43	23.00	1.140	-0.13	0.612	0.698
	LTE Band 66	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	1	21.88	23.00	1.294	0.02	0.426	0.551
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	1	23.22	24.00	1.197	0.13	0.842	1.008
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	132072	1720	1	23.18	24.00	1.208	-0.11	0.863	1.042
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	132572	1770	1	23.16	24.00	1.213	0.07	0.778	0.944
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	1	22.43	23.00	1.140	0.01	0.700	0.798
	LTE Band 66	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	1	21.88	23.00	1.294	0.13	0.491	0.635
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	1	23.27	24.00	1.183	0.1	0.902	1.067
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	1	23.17	24.00	1.211	-0.1	0.844	1.022
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	1	22.29	23.00	1.178	0.12	0.709	0.835
09	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	1	23.27	24.00	1.183	-0.04	0.995	1.177
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	2	23.27	24.00	1.183	0.09	0.905	1.071
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2 Simultaneous	349000	1745	1	22.37	23.20	1.211	0.09	0.786	0.952
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	1	23.17	24.00	1.211	0.17	0.939	1.137
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	1	22.29	23.00	1.178	0.15	0.767	0.903
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	1	23.27	24.00	1.183	0.13	0.748	0.885
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	1	23.17	24.00	1.211	-0.06	0.729	0.883
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	1	22.29	23.00	1.178	-0.1	0.595	0.701
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	1	23.27	24.00	1.183	0.08	0.883	1.045
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	1	23.17	24.00	1.211	0.11	0.855	1.035
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	1	22.29	23.00	1.178	-0.11	0.678	0.798
1900MHz																			
10	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Right Cheek	0mm	Ant 0	DSI 2	661	1880	1	28.52	29.50	1.253	-0.02	0.196	0.246
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Right Tilted	0mm	Ant 0	DSI 2	661	1880	1	28.52	29.50	1.253	0.13	0.077	0.096
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Left Cheek	0mm	Ant 0	DSI 2	661	1880	1	28.52	29.50	1.253	-0.05	0.132	0.165
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Left Tilted	0mm	Ant 0	DSI 2	661	1880	1	28.52	29.50	1.253	-0.14	0.152	0.190
11	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	9400	1880	1	22.99	24.00	1.262	-0.02	0.246	0.310
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	9400	1880	1	22.99	24.00	1.262	0.150	0.156	0.197
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	9400	1880	1	22.99	24.00	1.262	0.06	0.184	0.232
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	9400	1880	1	22.99	24.00	1.262	0.07	0.186	0.235
12	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	26340	1880	1	22.32	24.00	1.472	0.03	0.127	0.187
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	26340	1880	1	21.41	23.00	1.442	-0.01	0.105	0.151



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	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	26340	1880	1	22.32	24.00	1.472	0.06	0.079	0.116
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	26340	1880	1	21.41	23.00	1.442	-0.01	0.067	0.097
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	26340	1880	1	22.32	24.00	1.472	0.08	0.092	0.135
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	26340	1880	1	21.41	23.00	1.442	-0.05	0.077	0.111
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	26340	1880	1	22.32	24.00	1.472	-0.01	0.092	0.135
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	26340	1880	1	21.41	23.00	1.442	-0.1	0.077	0.111
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	376000	1880	1	22.98	24.00	1.265	-0.15	0.141	0.178
13	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	376000	1880	1	22.92	24.00	1.282	-0.06	0.150	0.192
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	376000	1880	1	22.98	24.00	1.265	0.15	0.089	0.113
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	376000	1880	1	22.92	24.00	1.282	-0.09	0.100	0.128
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	376000	1880	1	22.98	24.00	1.265	0.16	0.104	0.132
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	376000	1880	1	22.92	24.00	1.282	0.01	0.107	0.137
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	376000	1880	1	22.98	24.00	1.265	-0.13	0.100	0.126
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	376000	1880	1	22.92	24.00	1.282	-0.14	0.110	0.141

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)
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 2	21100	2535	1	22.72	24.00	1.343	-	-	-0.09	0.646	0.867
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 2	20850	2510	1	22.45	24.00	1.429	-	-	0.02	0.601	0.859
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 2	21350	2560	1	22.62	24.00	1.374	-	-	0.01	0.611	0.840
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 2	21100	2535	1	21.92	23.00	1.282	-	-	-0.18	0.379	0.486
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	DSI 2	21100	2535	1	21.82	23.00	1.312	-	-	0.01	0.388	0.509
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 2	21100	2535	1	22.72	24.00	1.343	-	-	0.02	0.476	0.639
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 2	21100	2535	1	21.92	23.00	1.282	-	-	-0.13	0.288	0.369
14	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 2	21100	2535	1	22.72	24.00	1.343	-	-	0.03	0.648	0.870
	LTE_CA_7C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 5	DSI 2	21100 +21298	2535 +2554.8	1	22.70	24.00	1.349	-	-	0.09	0.588	0.793
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 2	20850	2510	1	22.45	24.00	1.429	-	-	0.09	0.595	0.850
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 2	21350	2560	1	22.62	24.00	1.374	-	-	0.01	0.605	0.831
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI 2	21100	2535	1	21.92	23.00	1.282	-	-	-0.12	0.575	0.737
	LTE Band 7	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 5	DSI 2	21100	2535	1	21.82	23.00	1.312	-	-	-0.12	0.551	0.723
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 2	21100	2535	1	22.72	24.00	1.343	-	-	0.04	0.436	0.585
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 2	21100	2535	1	21.92	23.00	1.282	-	-	-0.1	0.255	0.327
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 2	38000	2595	1	22.95	24.00	1.274	-	-	-0.03	0.292	0.372
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 2	38000	2595	1	21.94	23.00	1.276	-	-	0.14	0.228	0.291
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 2	38000	2595	1	22.95	24.00	1.274	-	-	-0.05	0.250	0.318
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 2	38000	2595	1	21.94	23.00	1.276	-	-	-0.06	0.189	0.241
15	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 2	38000	2595	1	22.95	24.00	1.274	-	-	0.06	0.524	0.667
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI 2	38000	2595	1	21.94	23.00	1.276	-	-	0.14	0.411	0.525
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 2	38000	2595	1	22.95	24.00	1.274	-	-	0.02	0.195	0.248
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 2	38000	2595	1	21.94	23.00	1.276	-	-	-0.04	0.152	0.194
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	1	18.92	19.80	1.225	62.9	1.006	0.05	0.835	1.029
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	39750	2506	1	18.79	19.80	1.262	62.9	1.006	0.15	0.838	1.064
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	40185	2549.5	1	18.81	19.80	1.256	62.9	1.006	0.04	0.835	1.055
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	41055	2636.5	1	18.84	19.80	1.247	62.9	1.006	0.12	0.827	1.038
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	41490	2680	1	18.79	19.80	1.262	62.9	1.006	0.09	0.748	0.950
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	1	18.79	19.80	1.262	62.9	1.006	0.06	0.733	0.930
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	39750	2506	1	18.74	19.80	1.276	62.9	1.006	-0.13	0.702	0.901
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	40185	2549.5	1	18.74	19.80	1.276	62.9	1.006	0.17	0.705	0.905
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	41055	2636.5	1	18.78	19.80	1.265	62.9	1.006	-0.05	0.698	0.888
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	41490	2680	1	18.66	19.80	1.300	62.9	1.006	0.16	0.701	0.917
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	1	18.70	19.80	1.288	62.9	1.006	0.08	0.692	0.897
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	1	18.92	19.80	1.225	62.9	1.006	-0.18	0.990	1.220
16	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	39750	2506	1	18.79	19.80	1.262	62.9	1.006	0.06	0.991	1.258
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2 Simultaneous	39750	2506	1	17.83	18.80	1.250	62.9	1.006	0.09	0.782	0.984



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LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	39750 +39948	2506 +2525.8	1	18.71	19.80	1.285	62.9	1.006	0.01	0.912	1.179	
LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2 Simultaneous	39750 +39948	2506 +2525.8	1	17.66	18.80	1.300	62.9	1.006	0.06	0.731	0.956	
LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	39750	2506	2	18.79	19.80	1.262	62.9	1.006	0.01	0.903	1.146	
LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	40185	2549.5	1	18.81	19.80	1.256	62.9	1.006	0.01	0.990	1.251	
LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	41055	2636.5	1	18.84	19.80	1.247	62.9	1.006	0.14	0.975	1.223	
LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	41490	2680	1	18.79	19.80	1.262	62.9	1.006	-0.07	0.911	1.156	
LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	1	18.79	19.80	1.262	62.9	1.006	0.13	0.888	1.127	
LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	39750	2506	1	18.74	19.80	1.276	62.9	1.006	-0.12	0.881	1.131	
LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	40185	2549.5	1	18.74	19.80	1.276	62.9	1.006	-0.02	0.884	1.135	
LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	41055	2636.5	1	18.78	19.80	1.265	62.9	1.006	-0.05	0.864	1.099	
LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	41490	2680	1	18.66	19.80	1.300	62.9	1.006	0.12	0.829	1.084	
LTE Band 41	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	1	18.70	19.80	1.288	62.9	1.006	0.05	0.811	1.051	
LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	40620	2593	1	18.92	19.80	1.225	62.9	1.006	-0.06	0.356	0.439	
LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	40620	2593	1	18.79	19.80	1.262	62.9	1.006	-0.01	0.315	0.400	
LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	1	18.92	19.80	1.225	62.9	1.006	0.09	0.491	0.605	
LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	39750	2506	1	18.79	19.80	1.262	62.9	1.006	-0.09	0.546	0.693	
LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	40185	2549.5	1	18.81	19.80	1.256	62.9	1.006	0.13	0.467	0.590	
LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	41055	2636.5	1	18.84	19.80	1.247	62.9	1.006	0.15	0.488	0.612	
LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	41490	2680	1	18.79	19.80	1.262	62.9	1.006	0.14	0.461	0.585	
LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	1	18.79	19.80	1.262	62.9	1.006	0.05	0.471	0.598	
LTE Band 41	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	1	18.70	19.80	1.288	62.9	1.006	-0.02	0.455	0.590	
FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	1	15.62	16.90	1.343	-	-	0.03	0.772	1.037	
FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	1	15.54	16.90	1.368	-	-	-0.07	0.787	1.076	
FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	1	15.48	16.90	1.387	-	-	0.17	0.798	1.107	
17	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	1	15.62	16.90	1.343	-	-	-0.08	0.930	1.249
FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2 Simultaneous	507000	2535	1	14.85	15.90	1.274	-	-	0.01	0.775	0.987	
FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	1	15.54	16.90	1.368	-	-	-0.04	0.901	1.232	
FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	1	15.48	16.90	1.387	-	-	-0.05	0.841	1.166	
FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	1	15.62	16.90	1.343	-	-	0.17	0.344	0.462	
FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	1	15.54	16.90	1.368	-	-	0.16	0.327	0.447	
FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	1	15.62	16.90	1.343	-	-	0.12	0.456	0.612	
FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	1	15.54	16.90	1.368	-	-	0.09	0.433	0.592	
FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	DSI 2	507000	2535	1	22.69	24.00	1.352	-	-	0.1	0.259	0.350	
FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	DSI 2	507000	2535	1	22.57	24.00	1.390	-	-	-0.13	0.274	0.381	
FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI 2	507000	2535	1	22.69	24.00	1.352	-	-	-0.06	0.216	0.292	
FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI 2	507000	2535	1	22.57	24.00	1.390	-	-	0.03	0.210	0.292	
FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	DSI 2	507000	2535	1	22.69	24.00	1.352	-	-	0.03	0.473	0.640	
FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	DSI 2	507000	2535	1	22.57	24.00	1.390	-	-	0.02	0.474	0.659	
FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	DSI 2	507000	2535	1	22.69	24.00	1.352	-	-	-0.19	0.181	0.245	
FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	DSI 2	507000	2535	1	22.57	24.00	1.390	-	-	-0.12	0.189	0.263	
LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	42590	3500	1	19.34	20.60	1.337	62.9	1.006	-0.17	0.492	0.662	
LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	42190	3460	1	19.18	20.60	1.387	62.9	1.006	-0.03	0.508	0.709	
LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	42990	3540	1	18.91	20.60	1.476	62.9	1.006	-0.03	0.480	0.713	
LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	42590	3500	1	19.23	20.60	1.371	62.9	1.006	-0.13	0.444	0.612	
LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	42190	3460	1	19.06	20.60	1.426	62.9	1.006	0.18	0.415	0.595	
LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	42990	3540	1	18.83	20.60	1.503	62.9	1.006	-0.1	0.422	0.638	
LTE Band 42	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	DSI 2	42590	3500	1	19.17	20.60	1.390	62.9	1.006	0.15	0.405	0.566	
LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	42590	3500	1	19.34	20.60	1.337	62.9	1.006	-0.06	0.548	0.737	
LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	42190	3460	1	19.18	20.60	1.387	62.9	1.006	0.03	0.560	0.781	
LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	42990	3540	1	18.91	20.60	1.476	62.9	1.006	-0.17	0.538	0.799	
LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	42590	3500	1	19.23	20.60	1.371	62.9	1.006	-0.14	0.505	0.696	
LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	42190	3460	1	19.06	20.60	1.426	62.9	1.006	0.07	0.522	0.749	
LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	42990	3540	1	18.83	20.60	1.503	62.9	1.006	0.06	0.511	0.773	
LTE Band 42	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 2	DSI 2	42590	3500	1	19.17	20.60	1.390	62.9	1.006	-0.09	0.498	0.696	
LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	42590	3500	1	19.34	20.60	1.337	62.9	1.006	0.1	0.870	1.170	



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18	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	42190	3460	1	19.18	20.60	1.387	62.9	1.006	-0.07	0.892	1.244
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2 Simultaneous	42190	3460	1	18.21	19.60	1.377	62.9	1.006	-0.13	0.718	0.995
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	42990	3540	1	18.91	20.60	1.476	62.9	1.006	0.18	0.822	1.220
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	42590	3500	1	19.23	20.60	1.371	62.9	1.006	-0.02	0.788	1.087
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	42190	3460	1	19.06	20.60	1.426	62.9	1.006	0.01	0.739	1.060
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	42990	3540	1	18.83	20.60	1.503	62.9	1.006	-0.19	0.754	1.140
	LTE Band 42	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 2	DSI 2	42590	3500	1	19.17	20.60	1.390	62.9	1.006	0.09	0.711	0.994
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	42590	3500	1	19.34	20.60	1.337	62.9	1.006	-0.01	0.840	1.129
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	42190	3460	1	19.18	20.60	1.387	62.9	1.006	-0.08	0.832	1.161
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	42990	3540	1	18.91	20.60	1.476	62.9	1.006	-0.17	0.781	1.159
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	42590	3500	1	19.23	20.60	1.371	62.9	1.006	0.01	0.711	0.981
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	42190	3460	1	19.06	20.60	1.426	62.9	1.006	0.02	0.705	1.011
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	42990	3540	1	18.83	20.60	1.503	62.9	1.006	-0.11	0.703	1.063
	LTE Band 42	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 2	DSI 2	42590	3500	1	19.17	20.60	1.390	62.9	1.006	0.01	0.701	0.980
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	1	16.23	17.50	1.340	-	-	-0.07	0.490	0.656
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	1	16.14	17.50	1.368	-	-	0.01	0.476	0.651
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	633334	3500.01	1	16.23	17.50	1.340	-	-	-0.18	0.504	0.675
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	633334	3500.01	1	16.14	17.50	1.368	-	-	0.08	0.495	0.677
19	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	633334	3500.01	1	16.23	17.50	1.340	-	-	-0.15	0.932	1.249
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2 Simultaneous	633334	3500.01	1	15.21	16.50	1.346	-	-	-0.03	0.708	0.953
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	633334	3500.01	2	16.23	17.50	1.340	-	-	0.02	0.915	1.226
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	633334	3500.01	1	16.14	17.50	1.368	-	-	-0.15	0.726	0.993
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	633334	3500.01	1	16.13	17.50	1.371	-	-	0.09	0.609	0.835
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	633334	3500.01	1	16.23	17.50	1.340	-	-	-0.09	0.791	1.060
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	633334	3500.01	1	16.14	17.50	1.368	-	-	0.11	0.773	1.057
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	633334	3500.01	1	16.13	17.50	1.371	-	-	0.16	0.628	0.861
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	633334	3500.01	1	18.97	20.50	1.422	-	-	0.18	0.040	0.057
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	633334	3500.01	1	18.84	20.50	1.466	-	-	-0.19	0.038	0.056
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	633334	3500.01	1	18.97	20.50	1.422	-	-	-0.11	0.035	0.050
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	633334	3500.01	1	18.84	20.50	1.466	-	-	0.06	0.039	0.057
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	633334	3500.01	1	18.97	20.50	1.422	-	-	-0.08	0.045	0.064
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	633334	3500.01	1	18.84	20.50	1.466	-	-	-0.1	0.043	0.063
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	633334	3500.01	1	18.97	20.50	1.422	-	-	-0.06	0.083	0.118
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	633334	3500.01	1	18.84	20.50	1.466	-	-	-0.09	0.039	0.057
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	633334	3500.01	1	17.32	18.50	1.312	-	-	0.11	0.053	0.070
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	633334	3500.01	1	17.27	18.50	1.327	-	-	-0.01	0.084	0.112
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	633334	3500.01	1	17.32	18.50	1.312	-	-	0.1	0.074	0.097
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	633334	3500.01	1	17.27	18.50	1.327	-	-	0.01	0.082	0.109
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	633334	3500.01	1	17.32	18.50	1.312	-	-	-0.07	0.116	0.152
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	633334	3500.01	1	17.27	18.50	1.327	-	-	0.01	0.159	0.211
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	633334	3500.01	1	17.32	18.50	1.312	-	-	0.11	0.076	0.100
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	633334	3500.01	1	17.27	18.50	1.327	-	-	-0.02	0.105	0.139
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	633334	3500.01	1	19.81	20.50	1.172	-	-	-0.15	0.100	0.117
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	633334	3500.01	1	19.74	20.50	1.191	-	-	0.09	0.089	0.106
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	19.81	20.50	1.172	-	-	0.03	0.091	0.107
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	19.74	20.50	1.191	-	-	0.09	0.087	0.104
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	633334	3500.01	1	19.81	20.50	1.172	-	-	0.15	0.076	0.089
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	633334	3500.01	1	19.74	20.50	1.191	-	-	0.1	0.068	0.081
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	19.81	20.50	1.172	-	-	-0.11	0.076	0.089
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	19.74	20.50	1.191	-	-	-0.07	0.082	0.098



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
WLAN & Bluetooth																	
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 8	Full power	1	2412	1	19.23	20.50	1.340	100	1.000	-0.11	0.337	0.451
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 8	Full power	1	2412	1	19.23	20.50	1.340	100	1.000	0.13	0.325	0.435
20	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Full power	1	2412	1	19.23	20.50	1.340	100	1.000	-0.08	0.940	1.259
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Simultaneous	1	2412	1	15.65	17.00	1.365	100	1.000	-0.07	0.430	0.587
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Full power	6	2437	1	18.92	20.50	1.439	100	1.000	-0.07	0.733	1.055
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Full power	11	2462	1	19.21	20.50	1.346	100	1.000	-0.06	0.765	1.030
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 8	Full power	6	2437	1	18.94	20.50	1.432	98.28	1.018	0.01	0.704	1.026
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 8	Full power	1	2412	1	18.09	19.50	1.384	98.28	1.018	0.01	0.528	0.744
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 8	Full power	1	2412	1	19.23	20.50	1.340	100	1.000	-0.17	0.770	1.032
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 8	Full power	6	2437	1	18.92	20.50	1.439	100	1.000	-0.14	0.587	0.845
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 8	Full power	11	2462	1	19.21	20.50	1.346	100	1.000	-0.17	0.652	0.878
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 8	Full power	0	2402	1	12.40	13.00	1.148	76.91	1.083	0.06	0.032	0.040
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 8	Full power	0	2402	1	12.40	13.00	1.148	76.91	1.083	0.01	0.031	0.039
21	Bluetooth	1Mbps	Left Cheek	0mm	Ant 8	Full power	0	2402	1	12.40	13.00	1.148	76.91	1.083	-0.04	0.091	0.113
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 8	Full power	0	2402	1	12.40	13.00	1.148	76.91	1.083	-0.03	0.074	0.092
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 8	Standalone	58	5290	1	14.55	16.00	1.396	92.17	1.085	0.17	0.301	0.456
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 8	Standalone	58	5290	1	14.55	16.00	1.396	92.17	1.085	0.02	0.371	0.562
22	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8	Standalone	58	5290	1	14.55	16.00	1.396	92.17	1.085	-0.06	0.728	1.103
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8	Simultaneous	58	5290	1	12.59	14.00	1.384	92.17	1.085	-0.07	0.314	0.471
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 8	Standalone	58	5290	1	14.55	16.00	1.396	92.17	1.085	-0.07	0.697	1.056
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 8	Standalone	138	5690	1	14.20	15.50	1.349	92.17	1.085	-0.06	0.285	0.417
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 8	Standalone	138	5690	1	14.20	15.50	1.349	92.17	1.085	0.18	0.328	0.480
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8	Standalone	138	5690	1	14.20	15.50	1.349	92.17	1.085	0.13	0.443	0.648
23	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 8	Standalone	138	5690	1	14.20	15.50	1.349	92.17	1.085	-0.07	0.649	0.950
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 8	Simultaneous	138	5690	1	12.01	13.00	1.256	92.17	1.085	-0.01	0.345	0.470
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 8	Standalone	106	5530	1	13.92	15.50	1.439	92.17	1.085	-0.12	0.470	0.734
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 8	Standalone	122	5610	1	13.59	15.50	1.552	92.17	1.085	0.13	0.554	0.933
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 8	Standalone	151	5755	1	16.41	18.00	1.442	96.30	1.038	0.16	0.441	0.660
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 8	Standalone	151	5755	1	16.41	18.00	1.442	96.30	1.038	-0.17	0.509	0.762
24	WLAN5.8GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8	Standalone	151	5755	1	16.41	18.00	1.442	96.30	1.038	-0.14	0.721	1.079
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8	Simultaneous	155	5775	1	13.72	14.50	1.197	92.17	1.085	-0.12	0.361	0.469
	WLAN5.8GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8	Standalone	159	5795	1	16.25	18.00	1.496	96.30	1.038	0.08	0.661	1.027
	WLAN5.8GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 8	Standalone	151	5755	1	16.41	18.00	1.442	96.30	1.038	-0.12	0.683	1.022
	WLAN5.8GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 8	Standalone	159	5795	1	16.25	18.00	1.496	96.30	1.038	0.06	0.677	1.051



16.2 Hotspot SAR

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 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																			
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	1	22.71	24.00	1.346	0.13	0.291	0.392
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	1	21.79	23.00	1.321	0.05	0.171	0.226
25	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	1	22.71	24.00	1.346	0.02	0.621	0.836
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	1	21.79	23.00	1.321	-0.03	0.422	0.558
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	1	21.55	23.00	1.396	0.02	0.412	0.575
	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	1	22.71	24.00	1.346	0.13	0.275	0.370
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	1	21.79	23.00	1.321	-0.02	0.165	0.218
	LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	1	22.71	24.00	1.346	0.03	0.492	0.662
	LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	1	21.79	23.00	1.321	-0.14	0.285	0.377
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	1	22.71	24.00	1.346	-0.17	0.521	0.701
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	23095	707.5	1	21.79	23.00	1.321	-0.09	0.545	0.720
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	23230	782	1	22.38	23.30	1.236	-0.18	0.485	0.599
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	23230	782	1	21.54	23.00	1.400	-0.02	0.399	0.558
26	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	23230	782	1	22.38	23.30	1.236	0.01	0.992	1.226
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	23230	782	1	21.54	23.00	1.400	0.06	0.852	1.192
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	23230	782	1	21.38	23.00	1.452	0.11	0.801	1.163
	LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	23230	782	1	22.38	23.30	1.236	-0.08	0.230	0.284
	LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	23230	782	1	21.54	23.00	1.400	-0.17	0.136	0.190
	LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	23230	782	1	22.38	23.30	1.236	-0.09	0.517	0.639
	LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	23230	782	1	21.54	23.00	1.400	0.08	0.287	0.402
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	23230	782	1	22.38	23.30	1.236	0.01	0.949	1.173
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	23230	782	1	21.54	23.00	1.400	0.09	0.577	0.808
	LTE Band 13	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	23230	782	1	21.38	23.00	1.452	-0.07	0.509	0.739
835MHz																			
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	1	26.23	26.90	1.167	-0.03	0.508	0.593
27	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	1	26.23	26.90	1.167	-0.02	0.993	1.159
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3 Simultaneous	128	824.2	1	26.20	26.90	1.175	0.05	0.846	0.994
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3 Simultaneous	251	848.8	1	26.10	26.90	1.202	0.07	0.905	1.088
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	1	26.23	26.90	1.167	-0.19	0.280	0.327
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	1	26.23	26.90	1.167	-0.12	0.419	0.489
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	1	26.23	26.90	1.167	-0.18	0.758	0.884
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	128	824.2	1	26.20	26.90	1.175	0.01	0.623	0.732
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	251	848.8	1	26.10	26.90	1.202	-0.01	0.673	0.809
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	1	22.68	23.50	1.208	0.03	0.513	0.620
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	1	22.68	23.50	1.208	0.18	0.990	1.196
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3 Simultaneous	4132	826.4	1	22.44	23.50	1.276	0.05	0.800	1.021
28	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3 Simultaneous	4233	846.6	1	22.63	23.50	1.222	-0.06	0.998	1.219
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	1	22.68	23.50	1.208	-0.07	0.252	0.304
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	1	22.68	23.50	1.208	0.11	0.427	0.516
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	1	22.68	23.50	1.208	0.09	0.833	1.006
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	4132	826.4	1	22.44	23.50	1.276	-0.14	0.771	0.984
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	4233	846.6	1	22.63	23.50	1.222	-0.12	0.780	0.953
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	1	21.97	23.00	1.268	-0.11	0.519	0.658
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	1	21.53	23.00	1.403	-0.06	0.319	0.447
29	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	1	21.97	23.00	1.268	-0.03	0.992	1.258
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	1	21.53	23.00	1.403	-0.08	0.755	1.059
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	1	21.33	23.00	1.469	-0.18	0.730	1.072
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	1	21.97	23.00	1.268	0.13	0.182	0.231
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	1	21.53	23.00	1.403	-0.06	0.112	0.157
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	1	21.97	23.00	1.268	0.11	0.429	0.544
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	1	21.53	23.00	1.403	0.05	0.237	0.332



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	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	1	21.97	23.00	1.268	-0.15	0.742	0.941	
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	1	21.53	23.00	1.403	0.03	0.557	0.781	
	LTE Band 26	15M	QPSK	75	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26865	831.5	1	21.33	23.00	1.469	-0.11	0.565	0.830	
	LTE Band 5	10M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	1	22.08	23.00	1.236	0.12	0.118	0.146	
	LTE Band 5	10M	QPSK	25	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	1	21.14	22.00	1.219	0.08	0.120	0.146	
30	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	1	22.08	23.00	1.236	-0.14	0.360	0.445	
	LTE Band 5	10M	QPSK	25	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	1	21.14	22.00	1.219	-0.09	0.209	0.255	
	LTE Band 5	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	1	22.08	23.00	1.236	-0.19	0.041	0.051	
	LTE Band 5	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	1	21.14	22.00	1.219	-0.04	0.012	0.015	
	LTE Band 5	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	1	22.08	23.00	1.236	0.05	0.070	0.087	
	LTE Band 5	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	1	21.14	22.00	1.219	-0.14	0.026	0.032	
	LTE Band 5	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	1	22.08	23.00	1.236	0.04	0.293	0.362	
	LTE Band 5	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	1	21.14	22.00	1.219	0.13	0.171	0.208	
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3 Simultaneous	1413	1732.6	1	15.11	16.40	1.346	0.02	0.122	0.164	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3 Simultaneous	1413	1732.6	1	15.11	16.40	1.346	0.12	0.214	0.288	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 3 Simultaneous	1413	1732.6	1	15.11	16.40	1.346	0.07	0.012	0.016	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 3 Simultaneous	1413	1732.6	1	15.11	16.40	1.346	0.14	0.042	0.057	
31	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	1413	1732.6	1	15.11	16.40	1.346	0.02	0.900	1.211	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	1312	1712.4	1	15.04	16.40	1.368	0.06	0.755	1.033	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	1513	1752.6	1	15.10	16.40	1.349	-0.08	0.762	1.028	
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	1	15.38	16.10	1.180	-0.15	0.379	0.447	
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	1	15.26	16.10	1.213	-0.13	0.351	0.426	
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	1	15.38	16.10	1.180	0.06	0.684	0.807	
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	132072	1720	1	15.10	16.10	1.259	-0.02	0.799	1.006	
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	132572	1770	1	15.25	16.10	1.216	-0.1	0.578	0.703	
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	1	15.26	16.10	1.213	0.13	0.566	0.687	
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	1	15.19	16.10	1.233	-0.1	0.537	0.662	
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	1	15.38	16.10	1.180	0.04	0.155	0.183	
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	1	15.26	16.10	1.213	-0.03	0.133	0.161	
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	1	15.38	16.10	1.180	0.01	0.098	0.116	
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	1	15.26	16.10	1.213	0.16	0.073	0.089	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	1	15.38	16.10	1.180	-0.13	0.977	1.153	
32	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132072	1720	1	15.10	16.10	1.259	-0.05	1.000	1.259	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132072	1720	2	15.10	16.10	1.259	0.01	0.933	1.175	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132572	1770	1	15.25	16.10	1.216	-0.16	0.877	1.067	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	1	15.26	16.10	1.213	0.08	0.822	0.997	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132072	1720	1	15.10	16.10	1.259	0.15	0.789	0.993	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132572	1770	1	15.20	16.10	1.230	-0.1	0.790	0.972	
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	1	15.19	16.10	1.233	-0.05	0.816	1.006	
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	1	20.71	22.10	1.377	0.07	0.246	0.339	
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	1	20.63	22.10	1.403	0.15	0.229	0.321	
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	1	20.71	22.10	1.377	0.11	0.517	0.712	
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	1	20.63	22.10	1.403	0.14	0.449	0.630	
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	1	20.71	22.10	1.377	-0.11	0.140	0.193	
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	1	20.63	22.10	1.403	-0.13	0.109	0.153	
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	1	20.71	22.10	1.377	0.17	0.037	0.051	
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	1	20.63	22.10	1.403	-0.15	0.038	0.053	
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	1	20.71	22.10	1.377	0.06	0.638	0.879	
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132072	1720	1	20.68	22.10	1.387	-0.01	0.611	0.847	
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132572	1770	1	20.68	22.10	1.387	0.11	0.708	0.982	
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	1	20.63	22.10	1.403	-0.04	0.589	0.826	
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132072	1720	1	20.61	22.10	1.409	-0.16	0.578	0.815	
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132572	1770	1	20.53	22.10	1.435	0.14	0.600	0.861	
	LTE Band 66	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	1	20.45	22.10	1.462	-0.1	0.540	0.790	
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	1	20.83	22.00	1.309	0.07	0.380	0.497	



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	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	1	20.76	22.00	1.330	0.09	0.418	0.556
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	1	20.83	22.00	1.309	-0.03	0.551	0.721
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	1	20.76	22.00	1.330	0.11	0.532	0.708
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	1	20.83	22.00	1.309	0.05	0.198	0.259
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	1	20.76	22.00	1.330	0.11	0.189	0.251
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	1	20.83	22.00	1.309	0.07	0.075	0.098
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	1	20.76	22.00	1.330	-0.11	0.069	0.092
33	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	1	20.83	22.00	1.309	-0.17	0.752	0.985
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	1	20.76	22.00	1.330	0.03	0.733	0.975
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	1	20.74	22.00	1.337	-0.01	0.681	0.910
1900MHz																			
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	DSI 3 Simultaneous	661	1880	1	18.97	19.90	1.239	0.16	0.355	0.440
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3 Simultaneous	661	1880	1	18.97	19.90	1.239	0.08	0.724	0.897
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3 Simultaneous	512	1850.2	1	18.66	19.90	1.330	-0.03	0.655	0.871
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3 Simultaneous	810	1909.8	1	18.91	19.90	1.256	-0.02	0.629	0.790
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	DSI 3 Simultaneous	661	1880	1	18.97	19.90	1.239	0.11	0.131	0.162
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 0	DSI 3 Simultaneous	661	1880	1	18.97	19.90	1.239	0.04	0.129	0.160
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	661	1880	1	18.97	19.90	1.239	-0.07	0.837	1.037
34	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	512	1850.2	1	18.66	19.90	1.330	-0.09	0.909	1.209
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	810	1909.8	1	18.91	19.90	1.256	0.12	0.805	1.011
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	1	15.83	17.30	1.403	-0.04	0.315	0.442
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	1	15.83	17.30	1.403	0.04	0.561	0.787
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	1	15.83	17.30	1.403	0.13	0.171	0.240
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	1	15.83	17.30	1.403	0.04	0.099	0.139
35	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	1	15.83	17.30	1.403	-0.02	0.881	1.236
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	9262	1852.4	1	15.75	17.30	1.429	0.05	0.829	1.185
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	9538	1907.6	1	15.75	17.30	1.429	0.03	0.811	1.159
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	1	15.75	16.70	1.245	-0.06	0.408	0.508
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	1	15.71	16.70	1.256	0.1	0.340	0.427
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	1	15.75	16.70	1.245	0.03	0.793	0.987
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26140	1860	1	15.71	16.70	1.256	0.01	0.706	0.887
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26590	1905	1	15.73	16.70	1.250	0.09	0.801	1.001
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	1	15.71	16.70	1.256	0.02	0.716	0.899
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26140	1860	1	15.60	16.70	1.288	-0.02	0.709	0.913
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26590	1905	1	15.70	16.70	1.259	0.03	0.711	0.895
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	1	15.66	16.70	1.271	0.18	0.663	0.842
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	1	15.75	16.70	1.245	0.03	0.155	0.193
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	1	15.71	16.70	1.256	-0.17	0.122	0.153
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	1	15.75	16.70	1.245	0.11	0.130	0.162
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	1	15.71	16.70	1.256	0.03	0.108	0.136
36	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	1	15.75	16.70	1.245	0.02	0.998	1.242
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26140	1860	1	15.71	16.70	1.256	0.13	0.959	1.205
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26590	1905	1	15.73	16.70	1.250	-0.12	0.964	1.205
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	1	15.71	16.70	1.256	-0.17	0.841	1.056
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26140	1860	1	15.60	16.70	1.288	-0.01	0.812	1.046
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26590	1905	1	15.70	16.70	1.259	0.17	0.815	1.026
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	26340	1880	1	15.66	16.70	1.271	-0.18	0.832	1.057
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	1	16.88	18.00	1.294	0.05	0.337	0.436
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	1	16.85	18.00	1.303	0.18	0.333	0.434
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	1	16.88	18.00	1.294	-0.04	0.542	0.701
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	1	16.85	18.00	1.303	-0.01	0.577	0.752
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	1	16.88	18.00	1.294	-0.01	0.226	0.292
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	1	16.85	18.00	1.303	-0.01	0.215	0.280
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	1	16.88	18.00	1.294	0.14	0.105	0.136
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	1	16.85	18.00	1.303	0.16	0.108	0.141
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	1	16.88	18.00	1.294	0.08	0.893	1.156



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	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	372000	1860	1	16.86	18.00	1.300	0.16	0.824	1.071
37	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	380000	1900	1	16.76	18.00	1.330	-0.06	0.929	1.236
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	1	16.85	18.00	1.303	-0.15	0.922	1.202
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	372000	1860	1	16.61	18.00	1.377	-0.12	0.881	1.213
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	380000	1900	1	16.71	18.00	1.346	0.17	0.901	1.213
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	1	16.82	18.00	1.312	0.07	0.834	1.094

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)
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 5	DSI 3 Simultaneous	21100	2535	1	17.86	19.10	1.330	-	-	-0.17	0.588	0.782
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 5	DSI 3 Simultaneous	21100	2535	1	17.77	19.10	1.358	-	-	-0.1	0.505	0.686
38	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI 3 Simultaneous	21100	2535	1	17.86	19.10	1.330	-	-	-0.03	0.942	1.253
	LTE_CA_7C	20M	QPSK	1	99	-	Back	5mm	Ant 5	DSI 3 Simultaneous	21100	2535	1	17.74	19.10	1.368	-	1.000	0.01	0.871	1.191
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI 3 Simultaneous	20850	2510	1	17.60	19.10	1.413	-	-	0.02	0.862	1.218
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI 3 Simultaneous	21350	2560	1	17.78	19.10	1.355	-	-	0.08	0.878	1.190
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 5	DSI 3 Simultaneous	21100	2535	1	17.77	19.10	1.358	-	-	0.05	0.856	1.163
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 5	DSI 3 Simultaneous	20850	2510	1	17.44	19.10	1.466	-	-	-0.02	0.829	1.215
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 5	DSI 3 Simultaneous	21350	2560	1	17.60	19.10	1.413	-	-	-0.16	0.831	1.174
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 5	DSI 3 Simultaneous	21100	2535	1	17.52	19.10	1.439	-	-	0.17	0.809	1.164
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 5	DSI 3 Simultaneous	21100	2535	1	17.86	19.10	1.330	-	-	-0.15	0.566	0.753
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 5	DSI 3 Simultaneous	21100	2535	1	17.77	19.10	1.358	-	-	0.07	0.505	0.686
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 5	DSI 3 Simultaneous	21100	2535	1	17.86	19.10	1.330	-	-	-0.07	0.282	0.375
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 5	DSI 3 Simultaneous	21100	2535	1	17.77	19.10	1.358	-	-	0.01	0.144	0.196
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 5	DSI 3 Simultaneous	21100	2535	1	17.86	19.10	1.330	-	-	-0.05	0.508	0.676
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 5	DSI 3 Simultaneous	21100	2535	1	17.77	19.10	1.358	-	-	0.07	0.306	0.416
	LTE Band 38	20M	QPSK	1	0	-	Front	5mm	Ant 5	DSI 3 Simultaneous	38000	2595	1	17.01	18.00	1.256	-	-	0.02	0.670	0.842
	LTE Band 38	20M	QPSK	1	0	-	Front	5mm	Ant 5	DSI 3 Simultaneous	37850	2580	1	16.98	18.00	1.265	-	-	0.16	0.598	0.756
	LTE Band 38	20M	QPSK	1	0	-	Front	5mm	Ant 5	DSI 3 Simultaneous	38150	2610	1	16.87	18.00	1.297	-	-	-0.18	0.551	0.715
	LTE Band 38	20M	QPSK	50	0	-	Front	5mm	Ant 5	DSI 3 Simultaneous	38000	2595	1	16.88	18.00	1.294	-	-	0.08	0.551	0.713
	LTE Band 38	20M	QPSK	100	0	-	Front	5mm	Ant 5	DSI 3 Simultaneous	38000	2595	1	16.60	18.00	1.380	-	-	0.11	0.549	0.758
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI 3 Simultaneous	38000	2595	1	17.01	18.00	1.256	-	-	-0.12	0.978	1.228
39	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI 3 Simultaneous	37850	2580	1	16.98	18.00	1.265	-	-	-0.15	0.996	1.260
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI 3 Simultaneous	38150	2610	1	16.87	18.00	1.297	-	-	-0.08	0.891	1.156
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 5	DSI 3 Simultaneous	38000	2595	1	16.88	18.00	1.294	-	-	0.12	0.857	1.109
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 5	DSI 3 Simultaneous	37850	2580	1	16.72	18.00	1.343	-	-	-0.13	0.861	1.156
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 5	DSI 3 Simultaneous	38150	2610	1	16.76	18.00	1.330	-	-	-0.16	0.855	1.138
	LTE Band 38	20M	QPSK	100	0	-	Back	5mm	Ant 5	DSI 3 Simultaneous	38000	2595	1	16.60	18.00	1.380	-	-	0.02	0.806	1.113
	LTE Band 38	20M	QPSK	1	0	-	Left Side	5mm	Ant 5	DSI 3 Simultaneous	38000	2595	1	17.01	18.00	1.256	-	-	0.08	0.616	0.774
	LTE Band 38	20M	QPSK	50	0	-	Left Side	5mm	Ant 5	DSI 3 Simultaneous	38000	2595	1	16.88	18.00	1.294	-	-	-0.06	0.601	0.778
	LTE Band 38	20M	QPSK	1	0	-	Right Side	5mm	Ant 5	DSI 3 Simultaneous	38000	2595	1	17.01	18.00	1.256	-	-	0.18	0.220	0.276
	LTE Band 38	20M	QPSK	50	0	-	Right Side	5mm	Ant 5	DSI 3 Simultaneous	38000	2595	1	16.88	18.00	1.294	-	-	0.07	0.173	0.224
	LTE Band 38	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 5	DSI 3 Simultaneous	38000	2595	1	17.01	18.00	1.256	-	-	-0.01	0.489	0.614
	LTE Band 38	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 5	DSI 3 Simultaneous	38000	2595	1	16.88	18.00	1.294	-	-	0.04	0.451	0.584
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	1	15.64	16.90	1.337	62.9	1.006	0.06	0.213	0.286
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	1	15.58	16.90	1.355	62.9	1.006	-0.08	0.188	0.256
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	1	15.64	16.90	1.337	62.9	1.006	-0.15	0.338	0.454
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	1	15.58	16.90	1.355	62.9	1.006	-0.08	0.305	0.416
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	1	15.64	16.90	1.337	62.9	1.006	-0.16	0.181	0.243
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	1	15.58	16.90	1.355	62.9	1.006	0.07	0.154	0.210
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	1	15.64	16.90	1.337	62.9	1.006	-0.13	0.041	0.055
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	1	15.58	16.90	1.355	62.9	1.006	0.07	0.035	0.048
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	1	15.64	16.90	1.337	62.9	1.006	0.17	0.635	0.854
40	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	39750	2506	1	15.42	16.90	1.406	62.9	1.006	-0.03	0.706	0.999
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	39750	2506	1	15.38	16.90	1.419	62.9	1.006	0.09	0.638	0.911



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	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	40185	2549.5	1	15.46	16.90	1.393	62.9	1.006	0.07	0.651	0.912
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	41055	2636.5	1	15.34	16.90	1.432	62.9	1.006	-0.09	0.620	0.893
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	41490	2680	1	15.29	16.90	1.449	62.9	1.006	0.02	0.623	0.908
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	1	15.58	16.90	1.355	62.9	1.006	-0.06	0.622	0.848
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	39750	2506	1	15.29	16.90	1.449	62.9	1.006	0.02	0.516	0.752
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	40185	2549.5	1	15.34	16.90	1.432	62.9	1.006	0.04	0.549	0.791
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	41055	2636.5	1	15.25	16.90	1.462	62.9	1.006	-0.03	0.583	0.858
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	41490	2680	1	15.17	16.90	1.489	62.9	1.006	-0.04	0.581	0.871
	LTE Band 41	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	40620	2593	1	15.55	16.90	1.365	62.9	1.006	0.05	0.618	0.848
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	1	12.17	13.00	1.211	-	-	0.07	0.248	0.300
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	1	12.00	13.00	1.259	-	-	0.17	0.254	0.320
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	1	12.17	13.00	1.211	-	-	-0.08	0.365	0.442
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	1	12.00	13.00	1.259	-	-	-0.16	0.451	0.568
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	1	12.17	13.00	1.211	-	-	-0.15	0.123	0.149
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	1	12.00	13.00	1.259	-	-	0.14	0.137	0.172
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	1	12.17	13.00	1.211	-	-	0.04	0.042	0.051
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	1	12.00	13.00	1.259	-	-	-0.17	0.042	0.053
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	1	12.17	13.00	1.211	-	-	-0.07	0.761	0.921
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	1	12.00	13.00	1.259	-	-	0.09	0.776	0.977
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	507000	2535	1	11.96	13.00	1.271	-	-	0.11	0.696	0.884
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 5	DSI 3 Simultaneous	507000	2535	1	18.37	19.50	1.297	-	-	0.09	0.618	0.802
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 5	DSI 3 Simultaneous	507000	2535	1	18.18	19.50	1.355	-	-	0.14	0.646	0.875
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 5	DSI 3 Simultaneous	507000	2535	1	18.22	19.50	1.343	-	-	-0.17	0.622	0.835
41	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 5	DSI 3 Simultaneous	507000	2535	1	18.37	19.50	1.297	-	-	-0.04	0.966	1.253
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 5	DSI 3 Simultaneous	507000	2535	1	18.18	19.50	1.355	-	-	-0.08	0.874	1.184
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 5	DSI 3 Simultaneous	507000	2535	1	18.22	19.50	1.343	-	-	-0.09	0.851	1.143
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 5	DSI 3 Simultaneous	507000	2535	1	18.37	19.50	1.297	-	-	0.17	0.543	0.704
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 5	DSI 3 Simultaneous	507000	2535	1	18.18	19.50	1.355	-	-	0.08	0.611	0.828
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Left Side	5mm	Ant 5	DSI 3 Simultaneous	507000	2535	1	18.22	19.50	1.343	-	-	0.02	0.533	0.716
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 5	DSI 3 Simultaneous	507000	2535	1	18.37	19.50	1.297	-	-	0.15	0.217	0.281
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 5	DSI 3 Simultaneous	507000	2535	1	18.18	19.50	1.355	-	-	0.08	0.235	0.318
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 5	DSI 3 Simultaneous	507000	2535	1	18.37	19.50	1.297	-	-	-0.19	0.533	0.691
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 5	DSI 3 Simultaneous	507000	2535	1	18.18	19.50	1.355	-	-	-0.02	0.469	0.636
3500MHz																					
	LTE Band 42	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	1	17.14	18.60	1.400	62.9	1.006	-0.17	0.329	0.463
	LTE Band 42	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	1	17.04	18.60	1.432	62.9	1.006	0.08	0.294	0.424
42	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	1	17.14	18.60	1.400	62.9	1.006	0.08	0.702	0.988
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	42190	3460	1	16.84	18.60	1.500	62.9	1.006	0.07	0.588	0.887
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	42990	3540	1	16.69	18.60	1.552	62.9	1.006	0.02	0.601	0.939
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	1	17.04	18.60	1.432	62.9	1.006	0.05	0.581	0.837
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	42190	3460	1	16.88	18.60	1.486	62.9	1.006	0.07	0.586	0.876
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	42990	3540	1	16.72	18.60	1.542	62.9	1.006	0.01	0.591	0.917
	LTE Band 42	20M	QPSK	100	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	1	16.94	18.60	1.466	62.9	1.006	-0.12	0.581	0.857
	LTE Band 42	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	1	17.14	18.60	1.400	62.9	1.006	0.02	0.233	0.328
	LTE Band 42	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	1	17.04	18.60	1.432	62.9	1.006	-0.11	0.216	0.311
	LTE Band 42	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	1	17.14	18.60	1.400	62.9	1.006	-0.08	0.527	0.742
	LTE Band 42	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	DSI 3 Simultaneous	42190	3460	1	16.84	18.60	1.500	62.9	1.006	0.01	0.501	0.756
	LTE Band 42	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	DSI 3 Simultaneous	42990	3540	1	16.69	18.60	1.552	62.9	1.006	0.06	0.498	0.778
	LTE Band 42	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	1	17.04	18.60	1.432	62.9	1.006	-0.16	0.501	0.722
	LTE Band 42	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	DSI 3 Simultaneous	42190	3460	1	16.88	18.60	1.486	62.9	1.006	0.01	0.439	0.656
	LTE Band 42	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	DSI 3 Simultaneous	42990	3540	1	16.72	18.60	1.542	62.9	1.006	0.06	0.488	0.757
	LTE Band 42	20M	QPSK	100	0	-	Right Side	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	1	16.94	18.60	1.466	62.9	1.006	-0.18	0.436	0.643
	LTE Band 42	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	1	17.14	18.60	1.400	62.9	1.006	0.14	0.523	0.736
	LTE Band 42	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI 3 Simultaneous	42190	3460	1	16.84	18.60	1.500	62.9	1.006	0.01	0.511	0.771
	LTE Band 42	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI 3 Simultaneous	42990	3540	1	16.69	18.60	1.552	62.9	1.006	0.09	0.481	0.751
	LTE Band 42	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	1	17.04	18.60	1.432	62.9	1.006	0.05	0.503	0.725



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	LTE Band 42	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	DSI 3 Simultaneous	42190	3460	1	16.88	18.60	1.486	62.9	1.006	-0.12	0.488	0.729
	LTE Band 42	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	DSI 3 Simultaneous	42990	3540	1	16.72	18.60	1.542	62.9	1.006	-0.03	0.462	0.717
	LTE Band 42	20M	QPSK	100	0	-	Top Side	5mm	Ant 2	DSI 3 Simultaneous	42590	3500	1	16.94	18.60	1.466	62.9	1.006	0.03	0.451	0.665
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	1	14.76	15.60	1.213	-	-	0.15	0.328	0.398
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	1	14.71	15.60	1.227	-	-	0.11	0.382	0.469
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	1	14.76	15.60	1.213	-	-	0.01	0.588	0.713
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	1	14.71	15.60	1.227	-	-	-0.09	0.745	0.914
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	1	14.57	15.60	1.268	-	-	0.1	0.712	0.903
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	1	14.76	15.60	1.213	-	-	-0.08	0.121	0.147
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	1	14.71	15.60	1.227	-	-	-0.12	0.133	0.163
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	1	14.76	15.60	1.213	-	-	-0.18	0.481	0.584
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	1	14.71	15.60	1.227	-	-	0.04	0.606	0.744
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	1	14.76	15.60	1.213	-	-	-0.17	0.588	0.713
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	1	14.71	15.60	1.227	-	-	-0.06	0.638	0.783
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 3 Simultaneous	633334	3500.01	1	10.65	11.90	1.334	-	-	-0.18	0.013	0.017
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 3 Simultaneous	633334	3500.01	1	10.58	11.90	1.355	-	-	0.06	0.005	0.007
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 3 Simultaneous	633334	3500.01	1	10.65	11.90	1.334	-	-	-0.09	0.598	0.797
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 3 Simultaneous	633334	3500.01	1	10.58	11.90	1.355	-	-	0.04	0.728	0.987
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 3 Simultaneous	633334	3500.01	1	10.44	11.90	1.400	-	-	-0.03	0.605	0.847
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 3 Simultaneous	633334	3500.01	1	10.65	11.90	1.334	-	-	-0.09	0.073	0.097
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 3 Simultaneous	633334	3500.01	1	10.58	11.90	1.355	-	-	-0.04	0.096	0.130
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 3	DSI 3 Simultaneous	633334	3500.01	1	10.65	11.90	1.334	-	-	-0.13	0.008	0.011
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 3	DSI 3 Simultaneous	633334	3500.01	1	10.58	11.90	1.355	-	-	-0.17	0.011	0.015
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 3	DSI 3 Simultaneous	633334	3500.01	1	10.65	11.90	1.334	-	-	-0.01	0.016	0.021
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 3	DSI 3 Simultaneous	633334	3500.01	1	10.58	11.90	1.355	-	-	0.09	0.015	0.020
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	1	17.75	18.70	1.245	-	-	0.12	0.057	0.071
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	1	17.72	18.70	1.253	-	-	0.13	0.050	0.063
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	1	17.75	18.70	1.245	-	-	0.08	0.783	0.974
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	1	17.72	18.70	1.253	-	-	0.1	0.714	0.895
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	1	17.59	18.70	1.291	-	-	0.04	0.701	0.905
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	1	17.75	18.70	1.245	-	-	0.15	0.033	0.041
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	1	17.72	18.70	1.253	-	-	0.11	0.031	0.039
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	1	17.75	18.70	1.245	-	-	-0.1	0.221	0.275
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	1	17.72	18.70	1.253	-	-	0.04	0.204	0.256
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	1	17.75	18.70	1.245	-	-	0.13	0.095	0.118
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	1	17.72	18.70	1.253	-	-	0.14	0.084	0.105
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	DSI 3 Simultaneous	633334	3500.01	1	17.32	18.50	1.312	-	-	0.14	0.484	0.635
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	DSI 3 Simultaneous	633334	3500.01	1	17.27	18.50	1.327	-	-	-0.05	0.556	0.738
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	DSI 3 Simultaneous	633334	3500.01	1	17.32	18.50	1.312	-	-	-0.03	0.624	0.819
43	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	DSI 3 Simultaneous	633334	3500.01	1	17.27	18.50	1.327	-	-	-0.04	0.809	1.074
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 5	DSI 3 Simultaneous	633334	3500.01	1	17.22	18.50	1.343	-	-	0.01	0.556	0.747
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 5	DSI 3 Simultaneous	633334	3500.01	1	17.32	18.50	1.312	-	-	-0.15	0.445	0.584
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 5	DSI 3 Simultaneous	633334	3500.01	1	17.27	18.50	1.327	-	-	0.15	0.591	0.784
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 5	DSI 3 Simultaneous	633334	3500.01	1	17.32	18.50	1.312	-	-	-0.15	0.038	0.050
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 5	DSI 3 Simultaneous	633334	3500.01	1	17.27	18.50	1.327	-	-	-0.15	0.065	0.086
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 5	DSI 3 Simultaneous	633334	3500.01	1	17.32	18.50	1.312	-	-	0.08	0.253	0.332
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 5	DSI 3 Simultaneous	633334	3500.01	1	17.27	18.50	1.327	-	-	0.11	0.274	0.364



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
WLAN& Bluetooth																	
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 8	Simultaneous	1	2412	1	14.72	16.00	1.343	100	1.000	0.09	0.248	0.333
44	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8	Simultaneous	1	2412	1	14.72	16.00	1.343	100	1.000	0.05	0.414	0.556
	WLAN2.4GHz	802.11b 1Mbps	Left Side	5mm	Ant 8	Simultaneous	1	2412	1	14.72	16.00	1.343	100	1.000	0.03	0.029	0.039
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 8	Simultaneous	1	2412	1	14.72	16.00	1.343	100	1.000	-0.07	0.299	0.401
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 8	Simultaneous	1	2412	1	14.72	16.00	1.343	100	1.000	0.02	0.290	0.389
	Bluetooth	1Mbps	Front	5mm	Ant 8	Full power	0	2402	1	12.40	13.00	1.148	76.91	1.083	0.07	0.061	0.076
45	Bluetooth	1Mbps	Back	5mm	Ant 8	Full power	0	2402	1	12.40	13.00	1.148	76.91	1.083	-0.02	0.100	0.124
	Bluetooth	1Mbps	Left Side	5mm	Ant 8	Full power	0	2402	1	12.40	13.00	1.148	76.91	1.083	-0.04	0.007	0.009
	Bluetooth	1Mbps	Right Side	5mm	Ant 8	Full power	0	2402	1	12.40	13.00	1.148	76.91	1.083	0.04	0.074	0.092
	Bluetooth	1Mbps	Top Side	5mm	Ant 8	Full power	0	2402	1	12.40	13.00	1.148	76.91	1.083	0.03	0.033	0.041
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8	Simultaneous	42	5210	1	10.33	11.00	1.167	92.17	1.085	0.15	0.119	0.151
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	Simultaneous	42	5210	1	10.33	11.00	1.167	92.17	1.085	-0.04	0.334	0.423
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 8	Simultaneous	42	5210	1	10.33	11.00	1.167	92.17	1.085	-0.01	0.014	0.018
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 8	Simultaneous	42	5210	1	10.33	11.00	1.167	92.17	1.085	-0.05	0.115	0.146
46	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 8	Simultaneous	42	5210	1	10.33	11.00	1.167	92.17	1.085	0.09	0.431	0.546
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8	Simultaneous	155	5775	1	11.15	12.00	1.216	92.17	1.085	0.01	0.238	0.314
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	Simultaneous	155	5775	1	11.15	12.00	1.216	92.17	1.085	0.06	0.351	0.463
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 8	Simultaneous	155	5775	1	11.15	12.00	1.216	92.17	1.085	0.08	0.018	0.024
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 8	Simultaneous	155	5775	1	11.15	12.00	1.216	92.17	1.085	-0.1	0.078	0.103
47	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 8	Simultaneous	155	5775	1	11.15	12.00	1.216	92.17	1.085	-0.03	0.357	0.471



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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																				
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	23095	707.5	1	22.71	24.00	1.346	0.13	0.291	0.392
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 3	23095	707.5	1	21.79	23.00	1.321	0.05	0.171	0.226
48	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	23095	707.5	1	22.71	24.00	1.346	0.02	0.621	0.836
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 3	23095	707.5	1	21.79	23.00	1.321	-0.03	0.422	0.558
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	23095	707.5	1	21.55	23.00	1.396	0.02	0.412	0.575
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	23230	782	1	22.38	23.30	1.236	-0.18	0.485	0.599
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 3	23230	782	1	21.54	23.00	1.400	-0.02	0.399	0.558
49	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	23230	782	1	22.38	23.30	1.236	0.01	0.992	1.226
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	23230	782	1	22.38	23.30	1.236	0.09	0.901	1.114
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	23230	782	2	22.38	23.30	1.236	0.11	0.913	1.128
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 3	23230	782	1	21.54	23.00	1.400	0.06	0.852	1.192
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	23230	782	1	21.38	23.00	1.452	0.11	0.801	1.163
	LTE Band 13	10M	QPSK	1	0	-	Front	15mm	Ant 0	-	DSI 4	23230	782	1	22.38	24.00	1.452	0.05	0.212	0.308
	LTE Band 13	10M	QPSK	1	0	-	Back	17mm	Ant 0	-	DSI 4	23230	782	1	22.38	24.00	1.452	0.02	0.342	0.497
835MHz																				
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI 3	189	836.4	1	26.23	26.90	1.167	-0.03	0.508	0.593
50	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	189	836.4	1	26.23	26.90	1.167	-0.02	0.993	1.159
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	128	824.2	1	26.20	26.90	1.175	0.05	0.846	0.994
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	251	848.8	1	26.10	26.90	1.202	0.07	0.905	1.088
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	15mm	Ant 0	-	DSI 4	189	836.4	1	30.88	32.00	1.294	0.01	0.304	0.393
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	17mm	Ant 0	-	DSI 4	189	836.4	1	30.88	32.00	1.294	0.02	0.356	0.461
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	4182	836.4	1	22.68	23.50	1.208	0.03	0.513	0.620
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4182	836.4	1	22.68	23.50	1.208	0.18	0.990	1.196
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4132	826.4	1	22.44	23.50	1.276	0.05	0.800	1.021
51	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4233	846.6	1	22.63	23.50	1.222	-0.06	0.998	1.219
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	4233	846.6	1	22.63	23.50	1.222	0.01	0.952	1.163
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	-	DSI 4	4182	836.4	1	23.24	24.00	1.191	-0.02	0.199	0.237
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	17mm	Ant 0	-	DSI 4	4233	846.6	1	23.23	24.00	1.194	0.09	0.327	0.390
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	26865	831.5	1	21.97	23.00	1.268	-0.11	0.519	0.658
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	-	DSI 3	26865	831.5	1	21.53	23.00	1.403	-0.06	0.319	0.447
52	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	1	21.97	23.00	1.268	-0.03	0.992	1.258
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	26865	831.5	1	21.97	23.00	1.268	0.01	0.931	1.180
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	2	21.97	23.00	1.268	0.01	0.915	1.160
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	1	21.53	23.00	1.403	-0.08	0.755	1.059
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	1	21.33	23.00	1.469	-0.18	0.730	1.072
	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 0	-	DSI 4	26865	831.5	1	22.43	24.00	1.435	0.11	0.193	0.277
	LTE Band 26	15M	QPSK	1	0	-	Back	17mm	Ant 0	-	DSI 4	26865	831.5	1	22.43	24.00	1.435	0.05	0.263	0.378
	LTE Band 5	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	20525	836.5	1	22.08	23.00	1.236	0.12	0.118	0.146
	LTE Band 5	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 3	20525	836.5	1	21.14	22.00	1.219	0.08	0.120	0.146
53	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	20525	836.5	1	22.08	23.00	1.236	-0.14	0.360	0.445
	LTE Band 5	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 3	20525	836.5	1	21.14	22.00	1.219	-0.09	0.209	0.255
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	1413	1732.6	1	16.63	18.00	1.371	0.02	0.442	0.606
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	1413	1732.6	1	16.63	18.00	1.371	0.12	0.780	1.069
54	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	1312	1712.4	1	16.53	18.00	1.403	-0.01	0.895	1.256
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	1312	1712.4	1	16.53	18.00	1.403	0.06	0.818	1.148
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	1513	1752.6	1	16.58	18.00	1.387	0.06	0.707	0.980
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	-	DSI 4	1413	1732.6	1	23.17	24.00	1.211	0.01	0.661	0.800
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	-	DSI 4	1312	1712.4	1	23.02	24.00	1.253	0.01	0.625	0.783
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	-	DSI 4	1513	1752.6	1	23.06	24.00	1.242	0.01	0.618	0.767
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	17mm	Ant 0	-	DSI 4	1312	1712.4	1	23.02	24.00	1.253	0.06	0.505	0.633



	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	132322	1745	1	16.48	17.20	1.180	-0.15	0.474	0.559
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	132322	1745	1	16.32	17.20	1.225	-0.13	0.423	0.518
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	1	16.48	17.20	1.180	0.06	0.856	1.010
55	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	132072	1720	1	16.28	17.20	1.236	-0.02	1.000	1.236
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	132072	1720	1	16.28	17.20	1.236	0.06	0.956	1.182
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	132572	1770	1	16.31	17.20	1.227	-0.1	0.724	0.889
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	1	16.32	17.20	1.225	0.13	0.721	0.883
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	132072	1720	1	16.16	17.20	1.271	-0.08	0.705	0.896
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	132572	1770	1	16.26	17.20	1.242	-0.07	0.715	0.888
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	1	16.32	17.20	1.225	-0.1	0.706	0.865
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 0	-	DSI 4	132322	1745	1	22.63	24.00	1.371	-0.15	0.599	0.821
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 0	-	DSI 4	132072	1720	1	22.48	24.00	1.419	0.01	0.555	0.788
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 0	-	DSI 4	132572	1770	1	22.49	24.00	1.416	0.03	0.549	0.777
	LTE Band 66	20M	QPSK	1	0	-	Back	17mm	Ant 0	-	DSI 4	132072	1720	1	22.48	24.00	1.419	-0.01	0.712	1.010
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	1	23.22	24.00	1.197	0.07	0.421	0.504
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	1	22.43	23.00	1.140	0.15	0.392	0.447
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	1	23.22	24.00	1.197	0.11	0.884	1.058
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132072	1720	1	23.18	24.00	1.208	-0.08	0.842	1.017
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132572	1770	1	23.16	24.00	1.213	-0.05	0.887	1.076
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3 Simultaneous	132572	1770	1	20.68	22.10	1.387	0.09	0.487	0.675
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	1	22.43	23.00	1.140	0.14	0.768	0.876
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132072	1720	1	22.36	23.00	1.159	0.15	0.711	0.824
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132572	1770	1	22.38	23.00	1.153	-0.1	0.772	0.890
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	1	21.88	23.00	1.294	-0.02	0.662	0.857
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 1	-	DSI 4	132322	1745	1	23.22	24.00	1.197	0.03	0.105	0.126
	LTE Band 66	20M	QPSK	1	0	-	Back	17mm	Ant 1	-	DSI 4	132572	1770	1	23.16	24.00	1.213	0.01	0.133	0.161
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	349000	1745	1	23.27	24.00	1.183	0.07	0.561	0.664
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	349000	1745	1	23.17	24.00	1.211	0.09	0.618	0.748
56	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	1	23.27	24.00	1.183	-0.03	0.880	1.041
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3 Simultaneous	349000	1745	1	20.83	22.00	1.309	0.04	0.491	0.643
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	1	23.17	24.00	1.211	0.11	0.857	1.037
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	1	22.29	23.00	1.178	-0.15	0.711	0.837
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	-	DSI 4	349000	1745	1	23.27	24.00	1.183	0.03	0.123	0.146
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 1	-	DSI 4	349000	1745	1	23.17	24.00	1.211	0.01	0.131	0.159
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	17mm	Ant 1	-	DSI 4	349000	1745	1	23.27	24.00	1.183	0.06	0.146	0.173
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI 3	661	1880	1	21.48	22.80	1.355	0.03	0.330	0.447
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	661	1880	1	21.48	22.80	1.355	0.1	0.751	1.018
57	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	512	1850.2	1	21.40	22.80	1.380	-0.09	0.903	1.246
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Headset	DSI 3	512	1850.2	1	21.40	22.80	1.380	-0.09	0.845	1.166
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	810	1909.8	1	21.45	22.80	1.365	0.02	0.706	0.963
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Front	15mm	Ant 0	-	DSI 4	661	1880	1	28.52	29.50	1.253	0.02	0.287	0.360
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	17mm	Ant 0	-	DSI 4	512	1850.2	1	28.44	29.50	1.276	0.05	0.743	0.948
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	9400	1880	1	17.52	18.90	1.374	0.140	0.436	0.599
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9400	1880	1	17.52	18.90	1.374	-0.14	0.776	1.066
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9262	1852.4	1	17.44	18.90	1.400	-0.12	0.721	1.009
58	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9538	1907.6	1	17.31	18.90	1.442	-0.03	0.867	1.250
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	9538	1907.6	1	17.31	18.90	1.442	0.06	0.822	1.185
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9538	1907.6	2	17.31	18.90	1.442	0.09	0.741	1.069
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	-	DSI 4	9400	1880	1	22.99	24.00	1.262	-0.01	0.455	0.574
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	17mm	Ant 0	-	DSI 4	9538	1907.6	1	22.77	24.00	1.327	0.09	0.714	0.948
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	26340	1880	1	17.81	18.30	1.119	0.06	0.560	0.627
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	26340	1880	1	17.72	18.30	1.143	0.17	0.467	0.534
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	26340	1880	1	17.81	18.30	1.119	0.06	1.090	1.220
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	26140	1860	1	17.73	18.30	1.140	0.04	0.969	1.105
59	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	26590	1905	1	17.76	18.30	1.132	-0.01	1.100	1.246



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	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	26590	1905	1	17.76	18.30	1.132	-0.07	1.020	1.155
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	26340	1880	1	17.72	18.30	1.143	0.04	0.911	1.041
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	26140	1860	1	17.61	18.30	1.172	-0.12	0.807	0.946
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	26590	1905	1	17.67	18.30	1.156	0.16	0.930	1.075
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	26340	1880	1	17.61	18.30	1.172	0.03	0.911	1.068
	LTE Band 25	20M	QPSK	1	0	-	Front	15mm	Ant 0	-	DSI 4	26340	1880	1	22.32	24.00	1.472	0.06	0.297	0.437
	LTE Band 25	20M	QPSK	1	0	-	Back	17mm	Ant 0	-	DSI 4	26590	1905	1	22.26	24.00	1.493	0.06	0.499	0.745
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	376000	1880	1	19.01	19.90	1.227	0.05	0.580	0.712
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	376000	1880	1	18.93	19.90	1.250	0.18	0.572	0.715
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	376000	1880	1	19.01	19.90	1.227	-0.04	0.931	1.143
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	372000	1860	1	18.93	19.90	1.250	-0.07	0.800	1.000
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	380000	1900	1	18.89	19.90	1.262	-0.02	0.955	1.205
60	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	376000	1880	1	18.93	19.90	1.250	-0.01	0.992	1.240
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	Headset	DSI 3	376000	1880	1	18.93	19.90	1.250	0.08	0.923	1.154
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	372000	1860	1	18.76	19.90	1.300	0.06	0.845	1.099
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	380000	1900	1	18.89	19.90	1.262	0.16	0.976	1.232
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	376000	1880	1	18.90	19.90	1.259	-0.03	0.767	0.966
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	-	DSI 4	376000	1880	1	22.98	24.00	1.265	0.01	0.704	0.890
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	-	DSI 4	372000	1860	1	22.95	24.00	1.274	0.06	0.675	0.860
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	-	DSI 4	380000	1900	1	22.82	24.00	1.312	0.16	0.678	0.890
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 0	-	DSI 4	376000	1880	1	22.92	24.00	1.282	0.03	0.675	0.866
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 0	-	DSI 4	372000	1860	1	22.87	24.00	1.297	0.08	0.661	0.857
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 0	-	DSI 4	380000	1900	1	22.84	24.00	1.306	-0.13	0.668	0.873
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Front	15mm	Ant 0	-	DSI 4	376000	1880	1	22.02	23.00	1.253	0.16	0.527	0.660
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	17mm	Ant 0	-	DSI 4	376000	1880	1	22.98	24.00	1.265	0.06	0.511	0.646
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	17mm	Ant 0	-	DSI 4	376000	1880	1	22.92	24.00	1.282	-0.18	0.536	0.687



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)
2600MHz																						
61	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 5	-	DSI 3	21100	2535	1	17.86	19.10	1.330	-	-	0.12	0.588	0.782
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 5	-	DSI 3	21100	2535	1	17.77	19.10	1.358	-	-	-0.15	0.505	0.686
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	21100	2535	1	17.86	19.10	1.330	-	-	-0.03	0.942	1.253
	LTE_CA_7C	20M	QPSK	1	99	-	Back	5mm	Ant 5	-	DSI 3	21100	2535 +21298 +2554.8	1	17.74	19.10	1.368	-	1.000	0.01	0.871	1.191
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 5	Headset	DSI 3	21100	2535	1	17.86	19.10	1.330	-	-	0.09	0.901	1.199
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	20850	2510	1	17.60	19.10	1.413	-	-	0.07	0.862	1.218
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	21350	2560	1	17.78	19.10	1.355	-	-	-0.15	0.878	1.190
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	DSI 3	21100	2535	1	17.77	19.10	1.358	-	-	0.05	0.856	1.163
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	DSI 3	20850	2510	1	17.44	19.10	1.466	-	-	-0.02	0.829	1.215
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	DSI 3	21350	2560	1	17.60	19.10	1.413	-	-	-0.16	0.831	1.174
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 5	-	DSI 3	21100	2535	1	17.52	19.10	1.439	-	-	0.02	0.809	1.164
LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 5	-	DSI 4	21100	2535	1	22.72	24.00	1.343	-	-	0.01	0.366	0.491	
LTE Band 7	20M	QPSK	1	0	-	Back	17mm	Ant 5	-	DSI 4	21100	2535	1	22.72	24.00	1.343	-	-	0.09	0.451	0.606	
62	LTE Band 38	20M	QPSK	1	0	-	Front	5mm	Ant 5	-	DSI 3	38000	2595	1	17.01	18.00	1.256	-	-	0.02	0.670	0.842
	LTE Band 38	20M	QPSK	1	0	-	Front	5mm	Ant 5	-	DSI 3	37850	2580	1	16.98	18.00	1.265	-	-	0.16	0.598	0.756
	LTE Band 38	20M	QPSK	1	0	-	Front	5mm	Ant 5	-	DSI 3	38150	2610	1	16.87	18.00	1.297	-	-	-0.18	0.551	0.715
	LTE Band 38	20M	QPSK	50	0	-	Front	5mm	Ant 5	-	DSI 3	38000	2595	1	16.88	18.00	1.294	-	-	0.08	0.551	0.713
	LTE Band 38	20M	QPSK	100	0	-	Front	5mm	Ant 5	-	DSI 3	38000	2595	1	16.60	18.00	1.380	-	-	0.11	0.549	0.758
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	38000	2595	1	17.01	18.00	1.256	-	-	-0.12	0.978	1.228
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	37850	2580	1	16.98	18.00	1.265	-	-	-0.15	0.996	1.260
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 5	Headset	DSI 3	37850	2580	2	16.98	18.00	1.265	-	-	-0.13	0.648	0.820
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	37850	2580	1	16.98	18.00	1.265	-	-	0.02	0.943	1.193
	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	38150	2610	1	16.87	18.00	1.297	-	-	-0.08	0.891	1.156
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	DSI 3	38000	2595	1	16.88	18.00	1.294	-	-	0.12	0.857	1.109
63	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	DSI 3	37850	2580	1	16.72	18.00	1.343	-	-	-0.13	0.861	1.156
	LTE Band 38	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	DSI 3	38150	2610	1	16.76	18.00	1.330	-	-	-0.16	0.855	1.138
	LTE Band 38	20M	QPSK	100	0	-	Back	5mm	Ant 5	-	DSI 3	38000	2595	1	16.60	18.00	1.380	-	-	0.02	0.806	1.113
	LTE Band 38	20M	QPSK	1	0	-	Front	15mm	Ant 5	-	DSI 4	38000	2595	1	22.95	24.00	1.274	-	-	0.09	0.384	0.489
	LTE Band 38	20M	QPSK	1	0	-	Back	17mm	Ant 5	-	DSI 4	37850	2580	1	22.94	24.00	1.276	-	-	-0.06	0.469	0.599
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	1	19.63	20.40	1.194	62.9	1.006	-0.14	0.589	0.707
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	39750	2506	1	19.43	20.40	1.250	62.9	1.006	0.02	0.621	0.781
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	40185	2549.5	1	19.61	20.40	1.199	62.9	1.006	-0.02	0.589	0.711
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	41055	2636.5	1	19.45	20.40	1.245	62.9	1.006	-0.18	0.592	0.741
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	41490	2680	1	19.45	20.40	1.245	62.9	1.006	0.02	0.535	0.670
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	1	19.48	20.40	1.236	62.9	1.006	-0.19	0.525	0.653
LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	39750	2506	1	19.39	20.40	1.262	62.9	1.006	0.05	0.511	0.649	
LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	40185	2549.5	1	19.45	20.40	1.245	62.9	1.006	-0.14	0.500	0.626	
LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	41055	2636.5	1	19.42	20.40	1.253	62.9	1.006	0.03	0.501	0.632	
LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	41490	2680	1	19.37	20.40	1.268	62.9	1.006	-0.02	0.509	0.649	
LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	1	19.38	20.40	1.265	62.9	1.006	0.05	0.377	0.480	
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	1	19.63	20.40	1.194	62.9	1.006	-0.17	0.937	1.125	
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	39750	2506	1	19.43	20.40	1.250	62.9	1.006	0.01	0.994	1.250	
LTE_CA_41C	20M	QPSK	1	99	-	Back	5mm	Ant 1	-	DSI 3	39750	2506 +39948 +2525.8	1	19.28	20.40	1.294	62.9	1.006	-0.18	0.912	1.187	
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	39750	2506	1	15.42	16.90	1.406	62.9	1.006	0.09	0.332	0.470	
LTE_CA_41C	20M	QPSK	1	99	-	Back	5mm	Ant 1	-	DSI 3	39750	2506 +39948 +2525.8	1	15.38	16.90	1.419	62.9	1.006	0.01	0.312	0.445	
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	39750	2506	1	19.43	20.40	1.250	62.9	1.006	0.06	0.926	1.165	
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	40185	2549.5	1	19.61	20.40	1.199	62.9	1.006	0.06	0.976	1.178	
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	1	19.45	20.40	1.245	62.9	1.006	0.02	0.886	1.109	
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	41490	2680	1	19.45	20.40	1.245	62.9	1.006	0.09	0.732	0.916	
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	1	19.48	20.40	1.236	62.9	1.006	0.07	0.721	0.896	
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	39750	2506	1	19.39	20.40	1.262	62.9	1.006	-0.16	0.709	0.900	



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	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	40185	2549.5	1	19.45	20.40	1.245	62.9	1.006	0.18	0.729	0.913
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	1	19.42	20.40	1.253	62.9	1.006	0.01	0.708	0.893
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	41490	2680	1	19.37	20.40	1.268	62.9	1.006	0.18	0.749	0.955
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	1	19.38	20.40	1.265	62.9	1.006	0.02	0.724	0.921
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 1	-	DSI 4	39750	2506	1	23.18	24.00	1.208	62.9	1.006	0.09	0.330	0.401
	LTE Band 41	20M	QPSK	1	0	-	Back	17mm	Ant 1	-	DSI 4	39750	2506	1	23.18	24.00	1.208	62.9	1.006	-0.08	0.523	0.635
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	507000	2535	1	16.11	17.10	1.256	-	-	0.07	0.522	0.656
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	507000	2535	1	16.07	17.10	1.268	-	-	0.17	0.533	0.676
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	507000	2535	1	16.11	17.10	1.256	-	-	-0.08	0.768	0.965
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	507000	2535	1	16.07	17.10	1.268	-	-	-0.16	0.933	1.183
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	507000	2535	1	15.97	17.10	1.297	-	-	-0.09	0.962	1.248
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3 Simultaneous	507000	2535	1	11.96	13.00	1.271	-	-	0.01	0.399	0.507
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	Headset	DSI 3	507000	2535	1	15.97	17.10	1.297	-	-	0.02	0.921	1.195
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	-	DSI 4	507000	2535	1	22.99	24.00	1.262	-	-	-0.09	0.742	0.936
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 1	-	DSI 4	507000	2535	1	22.98	24.00	1.265	-	-	0.06	0.790	0.999
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Front	15mm	Ant 1	-	DSI 4	507000	2535	1	22.13	23.00	1.222	-	-	0.06	0.782	0.955
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	17mm	Ant 1	-	DSI 4	507000	2535	1	22.99	24.00	1.262	-	-	0.18	0.821	1.036
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	17mm	Ant 1	-	DSI 4	507000	2535	1	22.13	23.00	1.222	-	-	-0.03	0.703	0.859
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 5	-	DSI 3	507000	2535	1	18.37	19.50	1.297	-	-	0.09	0.618	0.802
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 5	-	DSI 3	507000	2535	1	18.18	19.50	1.355	-	-	0.14	0.646	0.875
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 5	-	DSI 3	507000	2535	1	18.22	19.50	1.343	-	-	-0.17	0.622	0.835
64	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 5	-	DSI 3	507000	2535	1	18.37	19.50	1.297	-	-	-0.04	0.966	1.253
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 5	Headset	DSI 3	507000	2535	1	18.37	19.50	1.297	-	-	0.09	0.922	1.196
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 5	-	DSI 3	507000	2535	1	18.18	19.50	1.355	-	-	-0.08	0.874	1.184
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 5	-	DSI 3	507000	2535	1	18.22	19.50	1.343	-	-	-0.09	0.851	1.143
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 5	-	DSI 4	507000	2535	1	22.69	24.00	1.352	-	-	0.08	0.661	0.894
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 5	-	DSI 4	507000	2535	1	22.57	24.00	1.390	-	-	-0.02	0.690	0.959
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Front	15mm	Ant 5	-	DSI 4	507000	2535	1	21.68	23.00	1.355	-	-	0.06	0.672	0.911
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	17mm	Ant 5	-	DSI 4	507000	2535	1	22.69	24.00	1.352	-	-	-0.01	0.491	0.664
3500MHz																						
	LTE Band 42	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	42590	3500	1	18.66	19.60	1.242	62.9	1.006	0.15	0.489	0.611
	LTE Band 42	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	42190	3460	1	18.38	19.60	1.324	62.9	1.006	-0.05	0.517	0.689
	LTE Band 42	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	42990	3540	1	18.25	19.60	1.365	62.9	1.006	0.07	0.514	0.706
	LTE Band 42	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	42590	3500	1	18.59	19.60	1.262	62.9	1.006	0.03	0.505	0.641
	LTE Band 42	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	42190	3460	1	18.31	19.60	1.346	62.9	1.006	0.05	0.514	0.696
	LTE Band 42	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	42990	3540	1	18.19	19.60	1.384	62.9	1.006	-0.11	0.499	0.695
	LTE Band 42	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	DSI 3	42590	3500	1	18.44	19.60	1.306	62.9	1.006	-0.16	0.491	0.645
65	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	42590	3500	1	18.66	19.60	1.242	62.9	1.006	-0.02	0.996	1.244
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3 Simultaneous	42590	3500	1	17.14	18.60	1.400	62.9	1.006	0.08	0.702	0.988
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 2	Headset	DSI 3	42590	3500	1	18.66	19.60	1.242	62.9	1.006	0.06	0.952	1.189
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	42190	3460	1	18.38	19.60	1.324	62.9	1.006	0.06	0.834	1.111
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	42990	3540	1	18.25	19.60	1.365	62.9	1.006	0.06	0.853	1.171
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	42590	3500	1	18.59	19.60	1.262	62.9	1.006	0.12	0.801	1.017
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	42190	3460	1	18.31	19.60	1.346	62.9	1.006	-0.09	0.796	1.078
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	42990	3540	1	18.19	19.60	1.384	62.9	1.006	0.04	0.789	1.098
	LTE Band 42	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 3	42590	3500	1	18.44	19.60	1.306	62.9	1.006	0.02	0.785	1.031
	LTE Band 42	20M	QPSK	1	0	-	Front	15mm	Ant 2	-	DSI 4	42990	3540	1	22.35	24.00	1.462	62.9	1.006	-0.03	0.316	0.465
	LTE Band 42	20M	QPSK	1	0	-	Back	17mm	Ant 2	-	DSI 4	42590	3500	1	22.72	24.00	1.343	62.9	1.006	0.16	0.495	0.669
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	633334	3500.01	1	15.77	16.60	1.211	-	-	0.1	0.440	0.533
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	633334	3500.01	1	15.68	16.60	1.236	-	-	-0.14	0.512	0.633
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	633334	3500.01	1	15.77	16.60	1.211	-	-	0.09	0.787	0.953
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	633334	3500.01	1	15.68	16.60	1.236	-	-	-0.03	0.998	1.233
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	633334	3500.01	2	15.68	16.60	1.236	-	-	0.12	0.743	0.918
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3 Simultaneous	633334	3500.01	1	14.71	15.60	1.227	-	-	-0.03	0.745	0.914
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	Headset	DSI 3	633334	3500.01	1	15.68	16.60	1.236	-	-	0.08	0.936	1.157



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	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	633334	3500.01	1	15.53	16.60	1.279	-	-	-0.15	0.954	1.221
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 2	-	DSI 4	633334	3500.01	1	21.79	23.00	1.321	-	-	-0.09	0.606	0.801
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 2	-	DSI 4	633334	3500.01	1	21.71	23.00	1.346	-	-	0.08	0.611	0.822
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Front	15mm	Ant 2	-	DSI 4	633334	3500.01	1	21.65	22.00	1.084	-	-	0.05	0.595	0.645
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	17mm	Ant 2	-	DSI 4	633334	3500.01	1	21.79	23.00	1.321	-	-	0.08	0.551	0.728
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	17mm	Ant 2	-	DSI 4	633334	3500.01	1	21.71	23.00	1.346	-	-	0.01	0.611	0.822
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	-	DSI 3	633334	3500.01	1	12.01	12.90	1.227	-	-	-0.18	0.117	0.144
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	-	DSI 3	633334	3500.01	1	11.95	12.90	1.245	-	-	0.06	0.105	0.131
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	-	DSI 3	633334	3500.01	1	12.01	12.90	1.227	-	-	-0.09	0.819	1.005
66	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	-	DSI 3	633334	3500.01	1	11.95	12.90	1.245	-	-	0.01	0.998	1.242
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	-	DSI 3	633334	3500.01	2	11.95	12.90	1.245	-	-	-0.04	0.975	1.213
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	-	DSI 3 Simultaneous	633334	3500.01	1	10.58	11.90	1.355	-	-	0.04	0.728	0.987
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	Headset	DSI 3	633334	3500.01	1	11.95	12.90	1.245	-	-	0.09	0.921	1.146
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 3	-	DSI 3	633334	3500.01	1	11.79	12.90	1.291	-	-	-0.03	0.830	1.072
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 3	-	DSI 4	633334	3500.01	1	17.23	17.60	1.089	-	-	0.05	0.105	0.114
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	17mm	Ant 3	-	DSI 4	633334	3500.01	1	17.23	17.60	1.089	-	-	0.08	0.211	0.230
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	17mm	Ant 3	-	DSI 4	633334	3500.01	1	17.05	17.60	1.135	-	-	0.01	0.222	0.252
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	-	DSI 3	633334	3500.01	1	19.27	20.00	1.183	-	-	0.12	0.071	0.084
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	-	DSI 3	633334	3500.01	1	19.18	20.00	1.208	-	-	0.13	0.063	0.076
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	633334	3500.01	1	19.27	20.00	1.183	-	-	-0.11	0.975	1.153
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	633334	3500.01	2	19.27	20.00	1.183	-	-	0.08	0.080	0.095
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3 Simultaneous	633334	3500.01	1	17.75	18.70	1.245	-	-	0.08	0.783	0.974
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	Headset	DSI 3	633334	3500.01	1	19.27	20.00	1.183	-	-	0.01	0.927	1.097
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	633334	3500.01	1	19.18	20.00	1.208	-	-	0.1	0.856	1.034
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	633334	3500.01	1	18.56	19.50	1.242	-	-	0.04	0.844	1.048
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 7	-	DSI 4	633334	3500.01	1	19.81	20.50	1.172	-	-	0.09	0.012	0.014
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	17mm	Ant 7	-	DSI 4	633334	3500.01	1	19.81	20.50	1.172	-	-	0.01	0.205	0.240
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	633334	3500.01	1	17.32	18.50	1.312	-	-	0.14	0.484	0.635
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	633334	3500.01	1	17.27	18.50	1.327	-	-	-0.05	0.556	0.738
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	633334	3500.01	1	17.32	18.50	1.312	-	-	-0.03	0.624	0.819
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	633334	3500.01	1	17.27	18.50	1.327	-	-	-0.04	0.809	1.074
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	633334	3500.01	2	17.27	18.50	1.327	-	-	0.08	0.749	0.994
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	633334	3500.01	1	17.22	18.50	1.343	-	-	0.01	0.556	0.747



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	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)	
WLAN & Bluetooth																			
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 8	-	Standalone	1	2412	1	18.76	20.00	1.330	100	1.000	0.03	0.568	0.756	
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 8	-	Standalone	6	2412	1	18.51	20.00	1.409	100	1.000	0.09	0.490	0.691	
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 8	-	Standalone	11	2412	1	18.72	20.00	1.343	100	1.000	0.1	0.458	0.615	
67	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8	-	Standalone	1	2412	1	18.76	20.00	1.330	100	1.000	-0.08	0.947	1.260	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8	-	Standalone	1	2412	2	18.76	20.00	1.330	100	1.000	0.09	0.709	0.943	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8	-	Simultaneous	1	2412	1	14.72	16.00	1.343	100	1.000	0.05	0.414	0.556	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8	Headset	Standalone	1	2412	1	18.76	20.00	1.330	100	1.000	0.09	0.793	1.055	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8	-	Standalone	6	2437	1	18.51	20.00	1.409	100	1.000	0.01	0.778	1.096	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8	-	Standalone	11	2462	1	18.72	20.00	1.343	100	1.000	0.09	0.780	1.047	
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 8	-	Standalone	6	2437	1	18.42	20.00	1.439	98.28	1.018	0.04	0.587	0.860	
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 8	-	Standalone	1	2412	1	18.29	19.50	1.321	98.28	1.018	0.05	0.541	0.728	
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 8	-	Full Power	1	2412	1	19.23	20.50	1.340	100	1.000	0.08	0.188	0.252	
	WLAN2.4GHz	802.11b 1Mbps	Back	17mm	Ant 8	-	Full Power	1	2412	1	19.23	20.50	1.340	100	1.000	0.01	0.222	0.297	
	Bluetooth	1Mbps	Front	5mm	Ant 8	-	Full Power	0	2402	1	12.40	13.00	1.148	76.91	1.083	0.05	0.061	0.076	
68	Bluetooth	1Mbps	Back	5mm	Ant 8	-	Full Power	0	2402	1	12.40	13.00	1.148	76.91	1.083	-0.02	0.100	0.124	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8	-	Standalone	58	5290	1	12.59	14.00	1.384	92.17	1.085	0.01	0.506	0.760	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8	-	Simultaneous	58	5290	1	9.53	11.00	1.403	92.17	1.085	0.09	0.248	0.377	
69	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Standalone	58	5290	1	12.59	14.00	1.384	92.17	1.085	0.01	0.796	1.195	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Standalone	58	5290	2	12.59	14.00	1.384	92.17	1.085	0.09	0.665	0.998	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Simultaneous	58	5290	1	9.53	11.00	1.403	92.17	1.085	-0.01	0.311	0.473	
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 8	-	Full Power	54	5270	1	17.89	19.50	1.448	96.30	1.038	0.09	0.244	0.367	
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	17mm	Ant 8	-	Full Power	54	5270	1	17.89	19.50	1.448	96.30	1.038	0.01	0.311	0.467	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8	-	Standalone	138	5690	1	13.97	15.00	1.268	92.17	1.085	0.06	0.298	0.410	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8	-	Simultaneous	138	5690	1	10.75	11.50	1.189	92.17	1.085	0.09	0.135	0.174	
70	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Standalone	138	5690	1	13.97	15.00	1.268	92.17	1.085	-0.01	0.834	1.147	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Standalone	138	5690	2	13.97	15.00	1.268	92.17	1.085	0.14	0.738	1.015	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Simultaneous	138	5690	1	10.75	11.50	1.189	92.17	1.085	0.01	0.366	0.472	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Standalone	106	5530	1	13.51	15.00	1.409	92.17	1.085	0.12	0.666	1.018	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Standalone	122	5610	1	13.15	15.00	1.531	92.17	1.085	0.06	0.651	1.081	
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 8	-	Full power	142	5710	1	18.28	19.50	1.323	96.30	1.038	0.03	0.351	0.482	
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	17mm	Ant 8	-	Full power	142	5710	1	18.28	19.50	1.323	96.30	1.038	0.01	0.388	0.533	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8	-	Standalone	155	5775	1	14.98	16.00	1.265	92.17	1.085	0.09	0.483	0.663	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8	-	Simultaneous	155	5775	1	11.15	12.00	1.216	92.17	1.085	0.01	0.238	0.314	
71	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Standalone	155	5775	1	14.98	16.00	1.265	92.17	1.085	0.01	0.786	1.079	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Standalone	155	5775	2	14.98	16.00	1.265	92.17	1.085	-0.01	0.605	0.830	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	-	Simultaneous	155	5775	1	11.15	12.00	1.216	92.17	1.085	0.06	0.351	0.463	
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	15mm	Ant 8	-	Full power	151	5755	1	18.35	20.00	1.461	92.17	1.085	0.02	0.288	0.457	
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	17mm	Ant 8	-	Full power	151	5755	1	18.35	20.00	1.461	92.17	1.085	0.06	0.326	0.517	



16.4 Product specific 10g SAR

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)	Reported 10g SAR (W/kg)
750MHz																			
72	LTE Band 13	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	23230	782	1	22.38	24.00	1.452	-0.02	1.520	2.207
	LTE Band 13	10M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	23230	782	2	22.38	24.00	1.452	0.05	1.410	2.047
	LTE Band 13	10M	QPSK	25	0	-	Back	0mm	Ant 0	DSI 6	23230	782	1	21.54	23.00	1.400	0.09	1.410	1.973
	LTE Band 13	10M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	23230	782	1	21.38	23.00	1.452	0.02	1.310	1.902
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	23230	782	1	22.38	24.00	1.452	-0.01	1.450	2.106
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 0	DSI 6	23230	782	1	21.54	23.00	1.400	0.08	1.220	1.707
	LTE Band 13	10M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	23230	782	1	21.38	23.00	1.452	0.01	1.080	1.568
835MHz																			
73	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	0mm	Ant 0	DSI 6	189	836.4	1	30.88	32.00	1.294	0.15	2.090	2.705
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	0mm	Ant 0	DSI 6	189	836.4	2	30.88	32.00	1.294	0.01	1.670	2.161
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	0mm	Ant 0	DSI 6	128	824.2	1	30.72	32.00	1.343	-0.02	1.930	2.592
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	0mm	Ant 0	DSI 6	251	848.8	1	30.75	32.00	1.334	0.06	1.730	2.307
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	4182	836.4	1	23.24	24.00	1.191	0.02	1.720	2.049
74	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	4132	826.4	1	23.00	24.00	1.259	0.09	1.910	2.405
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	4233	846.6	1	23.23	24.00	1.194	-0.06	1.690	2.018
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	4182	836.4	1	23.24	24.00	1.191	0.1	1.800	2.144
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	4132	826.4	1	23.00	24.00	1.259	0.11	1.720	2.165
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	4233	846.6	1	23.23	24.00	1.194	0.14	1.570	1.875
75	LTE Band 26	15M	QPSK	1	0		Back	0mm	Ant 0	DSI 6	26865	831.5	1	22.43	24.00	1.435	-0.08	1.720	2.469
	LTE Band 26	15M	QPSK	36	0		Back	0mm	Ant 0	DSI 6	26865	831.5	1	21.53	23.00	1.403	-0.08	1.320	1.852
	LTE Band 26	15M	QPSK	75	0		Back	0mm	Ant 0	DSI 6	26865	831.5	1	21.33	23.00	1.469	-0.08	1.280	1.880
1750MHz																			
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	1413	1732.6	1	18.48	19.30	1.208	0.1	1.050	1.268
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	1413	1732.6	1	18.48	19.30	1.208	-0.06	1.440	1.739
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1413	1732.6	1	18.48	19.30	1.208	0.14	2.180	2.633
76	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1312	1712.4	1	18.35	19.30	1.245	0.03	2.190	2.725
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1513	1752.6	1	18.36	19.30	1.242	-0.16	2.050	2.545
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 0	DSI 4	1413	1732.6	1	23.17	24.00	1.211	0.05	0.428	0.518
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	19mm	Ant 0	DSI 4	1413	1732.6	1	23.17	24.00	1.211	0.01	0.437	0.529
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	17mm	Ant 0	DSI 4	1312	1712.4	1	23.02	24.00	1.253	-0.08	0.696	0.872
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	132322	1745	1	19.03	19.80	1.194	-0.14	1.120	1.337
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	132322	1745	1	18.88	19.80	1.236	-0.18	1.050	1.298
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	1	19.03	19.80	1.194	0.12	1.710	2.042
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	132072	1720	1	18.79	19.80	1.262	-0.08	1.790	2.259
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	132572	1770	1	18.86	19.80	1.242	0.15	1.560	1.937
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	1	18.88	19.80	1.236	-0.11	1.660	2.052
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	132072	1720	1	18.63	19.80	1.309	-0.08	1.590	2.082
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	132572	1770	1	18.71	19.80	1.285	0.11	1.540	1.979
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	1	18.82	19.80	1.253	-0.08	1.490	1.867
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	1	19.03	19.80	1.194	0.04	2.170	2.591
77	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132072	1720	1	18.79	19.80	1.262	-0.05	2.180	2.751
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132072	1720	2	18.79	19.80	1.262	0.11	2.050	2.587
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	1	18.86	19.80	1.242	-0.15	1.980	2.458
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	1	18.88	19.80	1.236	0.05	1.880	2.324
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	132072	1720	1	18.63	19.80	1.309	-0.1	1.850	2.422
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	1	18.71	19.80	1.285	0.05	1.880	2.416
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	1	18.82	19.80	1.253	-0.09	1.820	2.281
	LTE Band 66	20M	QPSK	1	0	-	Front	14mm	Ant 0	DSI 4	132322	1745	1	22.63	24.00	1.371	0.01	0.373	0.511
	LTE Band 66	20M	QPSK	1	0	-	Back	19mm	Ant 0	DSI 4	132072	1720	1	22.48	24.00	1.419	0.03	0.396	0.562
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	17mm	Ant 0	DSI 4	132072	1720	1	22.48	24.00	1.419	0.08	0.611	0.867
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	132322	1745	1	22.25	23.20	1.245	0.17	2.150	2.676



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	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	132072	1720	1	22.12	23.20	1.282	0.1	1.840	2.359	
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	132572	1770	1	22.22	23.20	1.253	0.08	1.810	2.268	
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	132322	1745	1	22.18	23.00	1.208	0.06	1.720	2.077	
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	132072	1720	1	22.10	23.00	1.230	-0.02	1.710	2.104	
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	132572	1770	1	22.09	23.00	1.233	-0.14	1.630	2.010	
	LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	132322	1745	1	21.88	23.00	1.294	-0.11	1.600	2.071	
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	132322	1745	1	23.22	24.00	1.197	-0.16	0.195	0.233	
78	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	1	22.39	23.40	1.262	0.01	2.150	2.713	
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	2	22.39	23.40	1.262	0.16	1.470	1.855	
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	1	22.20	23.40	1.318	0.15	2.010	2.650	
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	1	22.29	23.00	1.178	0.1	1.760	2.073	
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 4	349000	1745	1	23.27	24.00	1.183	-0.05	0.175	0.207	
1900MHz																				
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 0	DSI 6	661	1880	1	22.84	23.80	1.247	0.03	0.741	0.924	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	DSI 6	661	1880	1	22.84	23.80	1.247	0.18	1.660	2.071	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	DSI 6	512	1850.2	1	22.67	23.80	1.297	-0.04	1.870	2.426	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	DSI 6	810	1909.8	1	22.60	23.80	1.318	-0.12	1.710	2.254	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	661	1880	1	22.84	23.80	1.247	0.04	1.860	2.320	
79	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	512	1850.2	1	22.67	23.80	1.297	0.04	2.130	2.763	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	810	1909.8	1	22.60	23.80	1.318	0.02	2.000	2.637	
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Front	14mm	Ant 0	DSI 4	661	1880	1	28.52	29.50	1.253	0.06	0.195	0.244	
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	19mm	Ant 0	DSI 4	512	1850.2	1	28.44	29.50	1.276	0.16	0.174	0.222	
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Bottom Side	17mm	Ant 0	DSI 4	512	1850.2	1	28.44	29.50	1.276	0.09	0.268	0.342	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	9400	1880	1	20.27	21.00	1.183	0.07	1.200	1.420	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9400	1880	1	20.27	21.00	1.183	-0.08	2.050	2.425	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9262	1852.4	1	20.19	21.00	1.205	-0.12	1.820	2.193	
80	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9538	1907.6	1	20.06	21.00	1.242	-0.07	2.190	2.719	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9400	1880	1	20.27	21.00	1.183	-0.13	1.720	2.035	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9262	1852.4	1	20.19	21.00	1.205	0.06	1.680	2.024	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9538	1907.6	1	20.06	21.00	1.242	0.03	1.390	1.726	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 0	DSI 4	9400	1880	1	22.99	24.00	1.262	0.17	0.316	0.399	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	19mm	Ant 0	DSI 4	9538	1907.6	1	22.77	24.00	1.327	-0.12	0.250	0.332	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	17mm	Ant 0	DSI 4	9400	1880	1	22.99	24.00	1.262	0.17	0.579	0.731	
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	26340	1880	1	20.33	21.20	1.222	0.06	1.290	1.576	
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	26340	1880	1	20.26	21.20	1.242	0.14	1.150	1.428	
81	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	26340	1880	1	20.33	21.20	1.222	-0.02	2.230	2.725	
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	26140	1860	1	20.25	21.20	1.245	-0.09	2.170	2.701	
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	26590	1905	1	20.28	21.20	1.236	0.14	2.080	2.571	
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	26340	1880	1	20.26	21.20	1.242	-0.11	1.950	2.421	
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	26140	1860	1	20.24	21.20	1.247	-0.13	1.910	2.383	
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	26590	1905	1	20.02	21.20	1.312	0.12	1.880	2.467	
	LTE Band 25	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 6	26340	1880	1	20.15	21.20	1.274	0.07	1.840	2.343	
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26340	1880	1	20.33	21.20	1.222	0.09	1.660	2.028	
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26140	1860	1	20.25	21.20	1.245	0.06	1.730	2.153	
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26590	1905	1	20.28	21.20	1.236	0.02	1.610	1.990	
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	26340	1880	1	20.26	21.20	1.242	-0.05	1.590	1.974	
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	26340	1880	1	20.15	21.20	1.274	-0.02	1.550	1.974	
	LTE Band 25	20M	QPSK	1	0	-	Front	14mm	Ant 0	DSI 4	26340	1880	1	22.32	24.00	1.472	0.05	0.200	0.294	
	LTE Band 25	20M	QPSK	1	0	-	Back	19mm	Ant 0	DSI 4	26340	1880	1	22.32	24.00	1.472	0.04	0.171	0.252	
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	17mm	Ant 0	DSI 4	26140	1860	1	22.25	24.00	1.496	-0.11	0.358	0.536	
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	376000	1880	1	20.75	21.60	1.216	-0.04	1.230	1.496	
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	376000	1880	1	20.59	21.60	1.262	-0.19	1.260	1.590	
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	376000	1880	1	20.75	21.60	1.216	-0.02	1.870	2.274	
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	372000	1860	1	20.68	21.60	1.236	-0.19	1.680	2.076	
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	380000	1900	1	20.62	21.60	1.253	0.1	2.130	2.669	
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	376000	1880	1	20.59	21.60	1.262	0.1	1.830	2.309	



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	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	372000	1860	1	20.48	21.60	1.294	0.01	1.760	2.278
82	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	380000	1900	1	20.53	21.60	1.279	-0.01	2.160	2.763
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	380000	1900	2	20.53	21.60	1.279	-0.15	1.900	2.431
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	376000	1880	1	20.56	21.60	1.271	-0.13	1.770	2.249
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	376000	1880	1	20.75	21.60	1.216	-0.07	1.660	2.019
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	372000	1860	1	20.68	21.60	1.236	-0.05	1.620	2.002
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	380000	1900	1	20.62	21.60	1.253	0.17	1.490	1.867
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	376000	1880	1	20.59	21.60	1.262	0.08	1.610	2.032
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	372000	1860	1	20.48	21.60	1.294	-0.15	1.750	2.265
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	380000	1900	1	20.53	21.60	1.279	0.04	1.650	2.111
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	376000	1880	1	20.56	21.60	1.271	0.08	1.620	2.058
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	14mm	Ant 0	DSI 4	376000	1880	1	22.98	24.00	1.265	0.05	0.146	0.185
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	14mm	Ant 0	DSI 4	376000	1880	1	22.92	24.00	1.282	-0.04	0.143	0.183
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	19mm	Ant 0	DSI 4	380000	1900	1	22.82	24.00	1.312	-0.05	0.118	0.155
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	19mm	Ant 0	DSI 4	380000	1900	1	22.84	24.00	1.306	-0.15	0.116	0.152
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	17mm	Ant 0	DSI 4	372000	1860	1	22.95	24.00	1.274	0.17	0.242	0.308
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	17mm	Ant 0	DSI 4	372000	1860	1	22.87	24.00	1.297	0.11	0.236	0.306

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 10g SAR (W/kg)	Reported 10g SAR (W/kg)
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 5	DSI 6	21100	2535	1	18.83	19.90	1.279	-	-	0.03	1.400	1.791
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 5	DSI 6	21100	2535	1	18.73	19.90	1.309	-	-	0.09	1.270	1.663
83	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 5	DSI 6	21100	2535	1	18.83	19.90	1.279	-	-	-0.04	2.130	2.725
	LTE_CA_7C	20M	QPSK	1	99	-	Back	0mm	Ant 5	DSI 6	21100+21298	2535+2554.8	1	18.79	19.90	1.291	-	1.000	-0.12	2.080	2.686
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 5	DSI 6	20850	2510	1	18.63	19.90	1.340	-	-	0.09	2.010	2.693
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 5	DSI 6	21350	2560	1	18.80	19.90	1.288	-	-	-0.07	2.060	2.654
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 5	DSI 6	21100	2535	1	18.73	19.90	1.309	-	-	0.18	1.920	2.514
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 5	DSI 6	20850	2510	1	18.43	19.90	1.403	-	-	0.02	1.880	2.637
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 5	DSI 6	21350	2560	1	18.60	19.90	1.349	-	-	-0.09	1.810	2.442
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 5	DSI 6	21100	2535	1	18.49	19.90	1.384	-	-	0.03	1.790	2.477
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 5	DSI 6	21100	2535	1	18.83	19.90	1.279	-	-	0.16	1.420	1.817
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 5	DSI 6	21100	2535	1	18.73	19.90	1.309	-	-	0.05	1.330	1.741
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 5	DSI 6	21100	2535	1	18.83	19.90	1.279	-	-	0.05	1.050	1.343
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 5	DSI 6	21100	2535	1	18.73	19.90	1.309	-	-	0.01	1.020	1.335
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 5	DSI 4	21100	2535	1	22.72	24.00	1.343	-	-	0.18	1.080	1.450
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI 4	21100	2535	1	22.72	24.00	1.343	-	-	0.02	0.603	0.810
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 5	DSI 4	21100	2535	1	22.72	24.00	1.343	-	-	0.09	0.939	1.261
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	8mm	Ant 5	DSI 4	21100	2535	1	22.72	24.00	1.343	-	-	0.06	0.255	0.342
	LTE Band 38	20M	QPSK	1	0	-	Front	0mm	Ant 5	DSI 6	38000	2595	1	20.57	21.50	1.239	-	-	-0.16	1.350	1.672
	LTE Band 38	20M	QPSK	50	0	-	Front	0mm	Ant 5	DSI 6	38000	2595	1	20.36	21.50	1.300	-	-	0.05	1.200	1.560
	LTE Band 38	20M	QPSK	1	0	-	Back	0mm	Ant 5	DSI 6	38000	2595	1	20.57	21.50	1.239	-	-	0.07	1.920	2.378
84	LTE Band 38	20M	QPSK	1	0	-	Back	0mm	Ant 5	DSI 6	37850	2580	1	20.51	21.50	1.256	-	-	-0.11	2.190	2.751
	LTE Band 38	20M	QPSK	1	0	-	Back	0mm	Ant 5	DSI 6	37850	2580	2	20.51	21.50	1.256	-	-	0.01	1.970	2.474
	LTE Band 38	20M	QPSK	1	0	-	Back	0mm	Ant 5	DSI 6	38150	2610	1	20.33	21.50	1.309	-	-	-0.03	1.940	2.540
	LTE Band 38	20M	QPSK	50	0	-	Back	0mm	Ant 5	DSI 6	38000	2595	1	20.36	21.50	1.300	-	-	0.07	1.950	2.535
	LTE Band 38	20M	QPSK	50	0	-	Back	0mm	Ant 5	DSI 6	37850	2580	1	20.20	21.50	1.349	-	-	-0.04	1.910	2.577
	LTE Band 38	20M	QPSK	50	0	-	Back	0mm	Ant 5	DSI 6	38150	2610	1	20.29	21.50	1.321	-	-	-0.03	1.880	2.484
	LTE Band 38	20M	QPSK	100	0	-	Back	0mm	Ant 5	DSI 6	38000	2595	1	20.04	21.50	1.400	-	-	-0.09	1.860	2.603
	LTE Band 38	20M	QPSK	1	0	-	Left Side	0mm	Ant 5	DSI 6	38000	2595	1	20.57	21.50	1.239	-	-	0.09	1.510	1.871
	LTE Band 38	20M	QPSK	50	0	-	Left Side	0mm	Ant 5	DSI 6	38000	2595	1	20.36	21.50	1.300	-	-	-0.04	1.160	1.508
	LTE Band 38	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 5	DSI 6	38000	2595	1	20.57	21.50	1.239	-	-	-0.03	1.010	1.251
	LTE Band 38	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 5	DSI 6	38000	2595	1	20.36	21.50	1.300	-	-	-0.07	0.951	1.236
	LTE Band 38	20M	QPSK	1	0	-	Front	5mm	Ant 5	DSI 4	38000	2595	1	22.95	24.00	1.274	-	-	-0.16	0.549	0.699
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI 4	37850	2580	1	22.94	24.00	1.276	-	-	0.07	0.319	0.407



	LTE Band 38	20M	QPSK	1	0	-	Left Side	5mm	Ant 5	DSI 4	38000	2595	1	22.95	24.00	1.274	-	-	-0.09	0.518	0.660
	LTE Band 38	20M	QPSK	1	0	-	Bottom Side	8mm	Ant 5	DSI 4	38000	2595	1	22.95	24.00	1.274	-	-	0.13	0.246	0.313
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	40620	2593	1	22.29	23.30	1.262	62.9	1.006	-0.02	1.920	2.437
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	39750	2506	1	22.15	23.30	1.303	62.9	1.006	-0.06	1.820	2.386
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	40185	2549.5	1	22.24	23.30	1.276	62.9	1.006	0.01	1.930	2.478
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	41055	2636.5	1	22.23	23.30	1.279	62.9	1.006	-0.1	1.850	2.381
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	41490	2680	1	22.23	23.30	1.279	62.9	1.006	0.01	1.920	2.471
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	40620	2593	1	21.97	23.00	1.268	62.9	1.006	-0.08	1.760	2.244
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	39750	2506	1	21.64	23.00	1.368	62.9	1.006	-0.18	1.750	2.408
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	40185	2549.5	1	21.56	23.00	1.393	62.9	1.006	0.17	1.580	2.214
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	41055	2636.5	1	21.77	23.00	1.327	62.9	1.006	-0.19	1.590	2.123
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	41490	2680	1	21.72	23.00	1.343	62.9	1.006	-0.1	1.610	2.175
	LTE Band 41	20M	QPSK	100	0	-	Front	0mm	Ant 1	DSI 6	40620	2593	1	21.91	23.00	1.285	62.9	1.006	0.12	1.630	2.108
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	1	22.29	23.30	1.262	62.9	1.006	-0.05	1.160	1.473
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	1	21.97	23.00	1.268	62.9	1.006	-0.11	1.050	1.339
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	40620	2593	1	22.29	23.30	1.262	62.9	1.006	-0.16	1.950	2.475
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	39750	2506	1	22.15	23.30	1.303	62.9	1.006	0.17	1.780	2.334
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	40185	2549.5	1	22.24	23.30	1.276	62.9	1.006	-0.13	1.560	2.003
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	41055	2636.5	1	22.23	23.30	1.279	62.9	1.006	0.1	1.930	2.484
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	41490	2680	1	22.23	23.30	1.279	62.9	1.006	-0.01	1.750	2.252
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	40620	2593	1	21.97	23.00	1.268	62.9	1.006	0.04	1.560	1.989
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	39750	2506	1	21.64	23.00	1.368	62.9	1.006	0.09	1.540	2.119
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	40185	2549.5	1	21.56	23.00	1.393	62.9	1.006	-0.15	1.610	2.256
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	41055	2636.5	1	21.77	23.00	1.327	62.9	1.006	0.18	1.570	2.097
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	41490	2680	1	21.72	23.00	1.343	62.9	1.006	0.06	1.490	2.013
	LTE Band 41	20M	QPSK	100	0	-	Left Side	0mm	Ant 1	DSI 6	40620	2593	1	21.91	23.00	1.285	62.9	1.006	-0.01	1.450	1.875
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	40620	2593	1	22.29	23.30	1.262	62.9	1.006	0.12	2.050	2.602
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	39750	2506	1	22.15	23.30	1.303	62.9	1.006	-0.08	1.640	2.150
85	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	40185	2549.5	1	22.24	23.30	1.276	62.9	1.006	0.06	2.140	2.748
	LTE_CA_41C	20M	QPSK	1	99	-	Top Side	0mm	Ant 1	DSI 6	40185 +40383	2549.5 +2569	1	22.18	23.30	1.294	62.9	1.006	0.1	1.930	2.513
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	40185	2549.5	2	22.24	23.30	1.276	62.9	1.006	0.15	1.770	2.273
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	41055	2636.5	1	22.23	23.30	1.279	62.9	1.006	0.07	1.850	2.381
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	41490	2680	1	22.23	23.30	1.279	62.9	1.006	0.09	2.120	2.729
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	40620	2593	1	21.97	23.00	1.268	62.9	1.006	0.07	1.950	2.487
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	39750	2506	1	21.64	23.00	1.368	62.9	1.006	-0.16	1.960	2.697
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	40185	2549.5	1	21.56	23.00	1.393	62.9	1.006	0.09	1.910	2.677
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	41055	2636.5	1	21.77	23.00	1.327	62.9	1.006	-0.03	1.840	2.457
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	41490	2680	1	21.72	23.00	1.343	62.9	1.006	-0.01	1.810	2.445
	LTE Band 41	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	40620	2593	1	21.91	23.00	1.285	62.9	1.006	-0.18	1.790	2.314
	LTE Band 41	20M	QPSK	1	0	-	Front	6mm	Ant 1	DSI 4	40185	2549.5	1	23.31	24.00	1.172	62.9	1.006	0.04	0.786	0.927
	LTE Band 41	20M	QPSK	1	0	-	Back	13mm	Ant 1	DSI 4	40620	2593	1	23.32	24.00	1.169	62.9	1.006	0.02	0.640	0.753
	LTE Band 41	20M	QPSK	1	0	-	Left Side	6mm	Ant 1	DSI 4	41055	2636.5	1	23.17	24.00	1.211	62.9	1.006	0.09	0.505	0.615
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	40185	2549.5	1	23.31	24.00	1.172	62.9	1.006	0.11	0.815	0.961
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	507000	2535	1	20.96	22.10	1.300	-	-	0.07	1.590	2.067
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	507000	2535	1	20.85	22.10	1.334	-	-	0.02	1.480	1.974
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	507000	2535	1	20.73	22.10	1.371	-	-	-0.08	1.500	2.056
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	1	20.96	22.10	1.300	-	-	-0.01	2.030	2.639
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	1	20.85	22.10	1.334	-	-	0.19	1.940	2.587
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	1	20.73	22.10	1.371	-	-	-0.07	1.880	2.577
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	507000	2535	1	20.96	22.10	1.300	-	-	0.11	1.190	1.547
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	507000	2535	1	20.85	22.10	1.334	-	-	0.1	1.300	1.734
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	507000	2535	1	20.73	22.10	1.371	-	-	-0.16	1.380	1.892
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	507000	2535	1	20.96	22.10	1.300	-	-	-0.06	1.670	2.171
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	507000	2535	1	20.85	22.10	1.334	-	-	-0.16	1.750	2.334
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	507000	2535	1	20.73	22.10	1.371	-	-	-0.04	1.700	2.330
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	6mm	Ant 1	DSI 4	507000	2535	1	22.99	24.00	1.262	-	-	-0.16	0.616	0.777



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	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	13mm	Ant 1	DSI 4	507000	2535	1	22.99	24.00	1.262	-	-	-0.18	0.269	0.339
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	6mm	Ant 1	DSI 4	507000	2535	1	22.99	24.00	1.262	-	-	-0.15	0.324	0.409
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	6mm	Ant 1	DSI 4	507000	2535	1	22.98	24.00	1.265	-	-	0.09	0.328	0.415
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Left Side	6mm	Ant 1	DSI 4	507000	2535	1	22.13	23.00	1.222	-	-	0.01	0.275	0.336
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 4	507000	2535	1	22.99	24.00	1.262	-	-	-0.04	0.604	0.762
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 4	507000	2535	1	22.98	24.00	1.265	-	-	0.17	0.590	0.746
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 5	DSI 6	507000	2535	1	19.91	20.90	1.256	-	-	-0.13	1.600	2.010
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 5	DSI 6	507000	2535	1	19.86	20.90	1.271	-	-	0.11	1.570	1.995
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 5	DSI 6	507000	2535	1	19.84	20.90	1.276	-	-	-0.16	1.510	1.927
86	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 5	DSI 6	507000	2535	1	19.91	20.90	1.256	-	-	-0.06	2.180	2.738
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 5	DSI 6	507000	2535	1	19.86	20.90	1.271	-	-	-0.02	2.110	2.681
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 5	DSI 6	507000	2535	1	19.84	20.90	1.276	-	-	0.13	2.130	2.719
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 5	DSI 6	507000	2535	1	19.91	20.90	1.256	-	-	-0.14	1.470	1.846
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	0mm	Ant 5	DSI 6	507000	2535	1	19.86	20.90	1.271	-	-	-0.16	1.490	1.893
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 5	DSI 6	507000	2535	1	19.91	20.90	1.256	-	-	-0.02	1.220	1.532
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 5	DSI 6	507000	2535	1	19.86	20.90	1.271	-	-	0.03	1.170	1.487
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 5	DSI 4	507000	2535	1	22.69	24.00	1.352	-	-	-0.16	0.556	0.752
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 5	DSI 4	507000	2535	1	22.69	24.00	1.352	-	-	-0.17	0.308	0.416
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 5	DSI 4	507000	2535	1	22.69	24.00	1.352	-	-	0.08	0.427	0.577
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 5	DSI 4	507000	2535	1	22.57	24.00	1.390	-	-	-0.06	0.479	0.666
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	8mm	Ant 5	DSI 4	507000	2535	1	22.69	24.00	1.352	-	-	0.11	0.268	0.362
3500MHz																					
	LTE Band 42	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 4	42590	3500	1	22.72	24.00	1.343	62.9	1.006	-0.18	1.370	1.851
	LTE Band 42	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 4	42190	3460	1	22.55	24.00	1.396	62.9	1.006	0.13	1.390	1.953
	LTE Band 42	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 4	42990	3540	1	22.35	24.00	1.462	62.9	1.006	-0.04	1.310	1.927
	LTE Band 42	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 4	42590	3500	1	21.72	23.00	1.343	62.9	1.006	-0.1	1.260	1.702
	LTE Band 42	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 4	42190	3460	1	21.54	23.00	1.400	62.9	1.006	0.14	1.220	1.718
	LTE Band 42	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 4	42990	3540	1	21.42	23.00	1.439	62.9	1.006	0.14	1.190	1.722
	LTE Band 42	20M	QPSK	100	0	-	Front	0mm	Ant 2	DSI 4	42590	3500	1	21.56	23.00	1.393	62.9	1.006	-0.14	1.210	1.696
	LTE Band 42	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	42590	3500	1	22.14	22.60	1.112	62.9	1.006	0.1	2.070	2.315
	LTE Band 42	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	42190	3460	1	21.94	22.60	1.164	62.9	1.006	0.1	2.150	2.518
87	LTE Band 42	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	42990	3540	1	21.86	22.60	1.186	62.9	1.006	0.03	2.190	2.612
	LTE Band 42	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	42590	3500	1	22.07	22.60	1.130	62.9	1.006	0.17	1.950	2.216
	LTE Band 42	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	42190	3460	1	21.86	22.60	1.186	62.9	1.006	0.03	1.910	2.278
	LTE Band 42	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	42990	3540	1	21.69	22.60	1.233	62.9	1.006	-0.11	1.960	2.431
	LTE Band 42	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 6	42590	3500	1	21.94	22.60	1.164	62.9	1.006	-0.15	1.880	2.202
	LTE Band 42	20M	QPSK	1	0	-	Right Side	0mm	Ant 2	DSI 4	42590	3500	1	22.72	24.00	1.343	62.9	1.006	-0.16	0.527	0.712
	LTE Band 42	20M	QPSK	50	0	-	Right Side	0mm	Ant 2	DSI 4	42590	3500	1	21.72	23.00	1.343	62.9	1.006	0.14	0.469	0.634
	LTE Band 42	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 6	42590	3500	1	22.14	22.60	1.112	62.9	1.006	0.13	1.350	1.510
	LTE Band 42	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 6	42190	3460	1	21.94	22.60	1.164	62.9	1.006	-0.06	1.370	1.604
	LTE Band 42	20M	QPSK	1	0	-	Top Side	0mm	Ant 2	DSI 6	42990	3540	1	21.86	22.60	1.186	62.9	1.006	-0.01	1.250	1.491
	LTE Band 42	20M	QPSK	50	0	-	Top Side	0mm	Ant 2	DSI 6	42590	3500	1	22.07	22.60	1.130	62.9	1.006	-0.15	1.310	1.489
	LTE Band 42	20M	QPSK	100	0	-	Top Side	0mm	Ant 2	DSI 6	42590	3500	1	21.94	22.60	1.164	62.9	1.006	0.11	1.280	1.499
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 4	42990	3540	1	22.35	24.00	1.462	62.9	1.006	-0.12	1.570	2.309
	LTE Band 42	20M	QPSK	1	0	-	Top Side	7mm	Ant 2	DSI 4	42190	3460	1	22.55	24.00	1.396	62.9	1.006	-0.16	0.652	0.916
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 4	633334	3500.01	1	21.79	23.00	1.321	-	-	-0.04	2.050	2.709
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 4	633334	3500.01	1	21.71	23.00	1.346	-	-	-0.03	2.010	2.705
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 4	633334	3500.01	1	21.65	23.00	1.365	-	-	0.11	1.660	2.265
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	1	19.25	20.20	1.245	-	-	0.08	1.970	2.452
88	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	1	19.17	20.20	1.268	-	-	-0.08	2.140	2.713
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	2	19.17	20.20	1.268	-	-	0.06	1.930	2.447
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	1	19.12	20.20	1.282	-	-	-0.15	1.910	2.449
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 2	DSI 4	633334	3500.01	1	21.59	23.00	1.384	-	-	0.1	0.540	0.747
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 2	DSI 4	633334	3500.01	1	21.51	23.00	1.409	-	-	-0.17	0.610	0.860
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 2	DSI 6	633334	3500.01	1	19.25	20.20	1.245	-	-	-0.18	1.390	1.730
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 2	DSI 6	633334	3500.01	1	19.17	20.20	1.268	-	-	-0.1	1.320	1.673



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FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 4	633334	3500.01	1	21.79	23.00	1.321	-	-	-0.03	1.730	2.286
FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 4	633334	3500.01	1	21.71	23.00	1.346	-	-	0.09	1.790	2.409
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	7mm	Ant 2	DSI 4	633334	3500.01	1	21.79	23.00	1.321	-	-	0.13	0.757	1.000
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 3	DSI 4	633334	3500.01	1	17.23	17.60	1.089	-	-	-0.05	1.920	2.091
FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 3	DSI 4	633334	3500.01	1	17.05	17.60	1.135	-	-	-0.04	2.040	2.315
FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 3	DSI 4	633334	3500.01	2	17.05	17.60	1.135	-	-	0.05	2.010	2.281
FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 3	DSI 4	633334	3500.01	1	17.01	17.60	1.146	-	-	-0.03	1.720	1.970
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	633334	3500.01	1	19.81	20.50	1.172	-	-	0.09	1.500	1.758
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	633334	3500.01	2	19.81	20.50	1.172	-	-	-0.01	1.220	1.430
FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	633334	3500.01	1	19.74	20.50	1.191	-	-	0.05	1.440	1.715

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
89	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 8	Full power	1	2412	1	19.23	20.50	1.340	100	1.000	0.04	0.911	1.220
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 8	Full power	1	2412	2	19.23	20.50	1.340	100	1.000	0.11	0.812	1.088
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 8	Full power	38	5190	1	18.24	19.50	1.335	96.30	1.038	-0.15	1.220	1.691
90	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Full power	38	5190	1	18.24	19.50	1.335	96.30	1.038	0.02	1.480	2.052
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Full power	38	5190	2	18.24	19.50	1.335	96.30	1.038	0.03	1.240	1.719
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8	Simultaneous	42	5210	1	14.06	15.00	1.242	92.17	1.085	-0.13	0.547	0.737
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Full power	46	5230	1	18.19	19.50	1.351	96.30	1.038	0.05	1.440	2.019
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 8	Full power	38	5190	1	18.24	19.50	1.337	96.30	1.038	-0.01	0.253	0.351
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 8	Full power	54	5270	1	17.89	19.50	1.448	96.30	1.038	0.05	0.947	1.423
91	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 8	Full power	54	5270	1	17.89	19.50	1.448	96.30	1.038	0.01	1.210	1.818
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 8	Full power	54	5270	2	17.89	19.50	1.448	96.30	1.038	0.03	1.100	1.653
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 8	Simultaneous	58	5290	1	13.73	15.50	1.503	92.17	1.085	0.06	0.485	0.791
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 8	Full power	54	5270	1	17.89	19.50	1.448	96.30	1.038	0.13	0.024	0.036
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 8	Full power	54	5270	1	17.89	19.50	1.448	96.30	1.038	0.05	0.697	1.047
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Full power	54	5270	1	17.89	19.50	1.448	96.30	1.038	-0.02	1.180	1.773
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	9mm	Ant 8	Full power	54	5270	1	17.89	19.50	1.448	96.30	1.038	0.13	0.505	0.759
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 8	Full power	142	5710	1	18.28	19.50	1.323	96.30	1.038	-0.02	0.682	0.937
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 8	Full power	142	5710	1	18.28	19.50	1.323	96.30	1.038	0.12	0.905	1.243
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 8	Full power	142	5710	1	18.28	19.50	1.323	96.30	1.038	-0.05	0.042	0.058
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 8	Full power	142	5710	1	18.28	19.50	1.323	96.30	1.038	-0.17	0.388	0.533
92	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Full power	142	5710	1	18.28	19.50	1.323	96.30	1.038	0.04	0.964	1.324
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Full power	142	5710	2	18.28	19.50	1.323	96.30	1.038	0.04	0.927	1.273
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8	Simultaneous	138	5690	1	15.90	17.50	1.444	92.17	1.085	0.06	0.503	0.788
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 8	Full power	142	5710	1	18.28	19.50	1.323	96.30	1.038	-0.05	0.170	0.233
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	0mm	Ant 8	Full power	151	5755	1	18.35	20.00	1.461	96.30	1.038	-0.01	0.680	1.031
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	0mm	Ant 8	Full power	151	5755	1	18.35	20.00	1.461	96.30	1.038	-0.01	1.000	1.516
	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Full power	151	5755	1	18.35	20.00	1.461	96.30	1.038	-0.13	1.020	1.547
93	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Full power	159	5795	1	18.25	20.00	1.495	96.30	1.038	-0.07	1.160	1.800
	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8	Full power	159	5795	2	18.25	20.00	1.495	96.30	1.038	-0.02	1.040	1.614
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8	Simultaneous	155	5775	1	14.98	16.00	1.265	92.17	1.085	0.05	0.560	0.768
	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 8	Full power	159	5755	1	18.25	20.00	1.495	96.30	1.038	0.17	0.237	0.368



16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	23230	782	22.38	23.30	1.236	-	-	0.01	0.992	1	1.226
2nd	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	23230	782	22.38	23.30	1.236	-	-	0.09	0.985	1.007	1.217
1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 10	DSI 3	4233	846.6	22.63	23.50	1.222	-	-	-0.06	0.998	1	1.219
2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 10	DSI 3	4233	846.6	22.63	23.50	1.222	-	-	0.09	0.961	1.039	1.174
1st	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	132072	1720	16.28	17.20	1.236	-	-	-0.02	1.000	1	1.236
2nd	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	132072	1720	16.28	17.20	1.236	-	-	-0.02	0.974	1.027	1.204
1st	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	26590	1905	17.76	18.30	1.132	-	-	-0.01	1.100	1	1.246
2nd	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3	26590	1905	17.76	18.30	1.132	-	-	-0.01	1.050	1.048	1.189
1st	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI 3	37850	2580	16.98	18.00	1.265	-	-	-0.15	0.996	1	1.260
2nd	LTE Band 38	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI 3	37850	2580	16.98	18.00	1.265	-	-	0.09	0.951	1.047	1.203
1st	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 3	633334	3500.01	11.95	12.90	1.245	-	-	0.01	0.998	1	1.242
2nd	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 3	633334	3500.01	11.95	12.90	1.245	-	-	0.09	0.966	1.033	1.202
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Back	5mm	Ant 8	Standalone	1	2412	18.76	20.00	1.330	100	1.000	-0.08	0.947	1	1.260
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Back	5mm	Ant 8	Standalone	1	2412	18.76	20.00	1.330	100	1.000	0.02	0.916	1.034	1.219
1st	WLAN5.5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	Standalone	138	5690	13.97	15.00	1.268	92.17	1.085	-0.01	0.834	1	1.147
2nd	WLAN5.5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	5mm	Ant 8	Standalone	138	5690	13.97	15.00	1.268	92.17	1.085	0.09	0.822	1.015	1.131

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	0mm	Ant 0	DSI 6	189	836.4	30.88	32.00	1.294	-	-	0.15	2.090	1	2.705
2nd	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	0mm	Ant 0	DSI 6	189	836.4	30.88	32.00	1.294	-	-	0.15	1.980	1.056	2.563
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1312	1712.4	18.35	19.30	1.245	-	-	0.03	2.190	1	2.725
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	1312	1712.4	18.35	19.30	1.245	-	-	0.01	2.110	1.038	2.626
1st	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	26340	1880	20.33	21.20	1.222	-	-	-0.02	2.230	1	2.725
2nd	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	26340	1880	20.33	21.20	1.222	-	-	0.09	2.150	1.037	2.627
1st	LTE Band 38	20M	QPSK	1	0	-	Back	0mm	Ant 5	DSI 6	37850	2580	20.51	21.50	1.256	-	-	-0.11	2.190	1	2.751
2nd	LTE Band 38	20M	QPSK	1	0	-	Back	0mm	Ant 5	DSI 6	37850	2580	20.51	21.50	1.256	-	-	0.06	2.150	1.019	2.700
1st	LTE Band 42	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	42990	3540	21.86	22.60	1.186	62.9	1.006	0.03	2.190	1	2.612
2nd	LTE Band 42	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	42990	3540	21.86	22.60	1.186	62.9	1.006	0.01	2.050	1.068	2.445

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.

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. The maximum SAR summation is calculated based on the same configuration and test position.
12. 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.
13. 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

Above analysis is also apply to LTE inter-band uplink, LTE1 + LTE2 + 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 + WLAN + BT < 1.



17.2 Head Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3+4
		WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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	Right Cheek	0.432	0.587	0.471	0.040	1.02	0.94
	Right Tilted	0.236	0.587	0.471	0.039	0.82	0.75
	Left Cheek	0.369	0.587	0.471	0.113	0.96	0.95
	Left Tilted	0.208	0.587	0.471	0.092	0.80	0.77
GSM1900 Ant 0	Right Cheek	0.246	0.587	0.471	0.040	0.83	0.76
	Right Tilted	0.096	0.587	0.471	0.039	0.68	0.61
	Left Cheek	0.165	0.587	0.471	0.113	0.75	0.75
	Left Tilted	0.190	0.587	0.471	0.092	0.78	0.75
WCDMA II Ant 0	Right Cheek	0.310	0.587	0.471	0.040	0.90	0.82
	Right Tilted	0.197	0.587	0.471	0.039	0.78	0.71
	Left Cheek	0.232	0.587	0.471	0.113	0.82	0.82
	Left Tilted	0.235	0.587	0.471	0.092	0.82	0.80
WCDMA IV Ant 0	Right Cheek	0.215	0.587	0.471	0.040	0.80	0.73
	Right Tilted	0.099	0.587	0.471	0.039	0.69	0.61
	Left Cheek	0.136	0.587	0.471	0.113	0.72	0.72
	Left Tilted	0.139	0.587	0.471	0.092	0.73	0.70
WCDMA V Ant 0	Right Cheek	0.368	0.587	0.471	0.040	0.96	0.88
	Right Tilted	0.192	0.587	0.471	0.039	0.78	0.70
	Left Cheek	0.314	0.587	0.471	0.113	0.90	0.90
	Left Tilted	0.316	0.587	0.471	0.092	0.90	0.88
LTE Band 5 Ant 1	Right Cheek	0.564	0.587	0.471	0.040	1.15	1.08
	Right Tilted	0.496	0.587	0.471	0.039	1.08	1.01
	Left Cheek	0.627	0.587	0.471	0.113	1.21	1.21
	Left Tilted	0.488	0.587	0.471	0.092	1.08	1.05
LTE Band 7 Ant 5	Right Cheek	0.867	0.587	0.471	0.040	1.45	1.38
	Right Tilted	0.639	0.587	0.471	0.039	1.23	1.15
	Left Cheek	0.870	0.587	0.471	0.113	1.46	1.45
	Left Tilted	0.585	0.587	0.471	0.092	1.17	1.15
LTE Band 12 Ant 0	Right Cheek	0.245	0.587	0.471	0.040	0.83	0.76
	Right Tilted	0.136	0.587	0.471	0.039	0.72	0.65
	Left Cheek	0.214	0.587	0.471	0.113	0.80	0.80
	Left Tilted	0.116	0.587	0.471	0.092	0.70	0.68
LTE Band 13 Ant 0	Right Cheek	0.349	0.587	0.471	0.040	0.94	0.86
	Right Tilted	0.180	0.587	0.471	0.039	0.77	0.69
	Left Cheek	0.279	0.587	0.471	0.113	0.87	0.86
	Left Tilted	0.158	0.587	0.471	0.092	0.75	0.72
LTE Band 25 Ant 0	Right Cheek	0.187	0.587	0.471	0.040	0.77	0.70
	Right Tilted	0.116	0.587	0.471	0.039	0.70	0.63
	Left Cheek	0.135	0.587	0.471	0.113	0.72	0.72
	Left Tilted	0.135	0.587	0.471	0.092	0.72	0.70
LTE Band 26 Ant 0	Right Cheek	0.313	0.587	0.471	0.040	0.90	0.82
	Right Tilted	0.158	0.587	0.471	0.039	0.75	0.67
	Left Cheek	0.291	0.587	0.471	0.113	0.88	0.88
	Left Tilted	0.152	0.587	0.471	0.092	0.74	0.72
LTE Band 66 Ant 0	Right Cheek	0.184	0.587	0.471	0.040	0.77	0.70
	Right Tilted	0.085	0.587	0.471	0.039	0.67	0.60
	Left Cheek	0.122	0.587	0.471	0.113	0.71	0.71
	Left Tilted	0.100	0.587	0.471	0.092	0.69	0.66
LTE Band 66 Ant 1	Right Cheek	0.954	0.587	0.471	0.040	1.54	1.47
	Right Tilted	0.954	0.587	0.471	0.039	1.54	1.46



	Left Cheek	0.954	0.587	0.471	0.113	1.54	1.54
	Left Tilted	0.954	0.587	0.471	0.092	1.54	1.52
LTE Band 38 Ant 5	Right Cheek	0.372	0.587	0.471	0.040	0.96	0.88
	Right Tilted	0.318	0.587	0.471	0.039	0.91	0.83
	Left Cheek	0.667	0.587	0.471	0.113	1.25	1.25
	Left Tilted	0.248	0.587	0.471	0.092	0.84	0.81
LTE Band 41 Ant 1	Right Cheek	0.984	0.587	0.471	0.040	1.57	1.50
	Right Tilted	0.984	0.587	0.471	0.039	1.57	1.49
	Left Cheek	0.984	0.587	0.471	0.113	1.57	1.57
	Left Tilted	0.984	0.587	0.471	0.092	1.57	1.55
LTE Band 42 Ant 2	Right Cheek	0.995	0.587	0.471	0.040	1.58	1.51
	Right Tilted	0.995	0.587	0.471	0.039	1.58	1.51
	Left Cheek	0.995	0.587	0.471	0.113	1.58	1.58
	Left Tilted	0.995	0.587	0.471	0.092	1.58	1.56
FR1 n2 Ant 0	Right Cheek	0.192	0.587	0.471	0.040	0.78	0.70
	Right Tilted	0.128	0.587	0.471	0.039	0.72	0.64
	Left Cheek	0.137	0.587	0.471	0.113	0.72	0.72
	Left Tilted	0.141	0.587	0.471	0.092	0.73	0.70
FR1 n7 Ant 1	Right Cheek	0.987	0.587	0.471	0.040	1.57	1.50
	Right Tilted	0.987	0.587	0.471	0.039	1.57	1.50
	Left Cheek	0.987	0.587	0.471	0.113	1.57	1.57
	Left Tilted	0.987	0.587	0.471	0.092	1.57	1.55
FR1 n7 Ant 5	Right Cheek	0.381	0.587	0.471	0.040	0.97	0.89
	Right Tilted	0.292	0.587	0.471	0.039	0.88	0.80
	Left Cheek	0.659	0.587	0.471	0.113	1.25	1.24
	Left Tilted	0.263	0.587	0.471	0.092	0.85	0.83
FR1 n66 Ant 1	Right Cheek	0.952	0.587	0.471	0.040	1.54	1.46
	Right Tilted	0.952	0.587	0.471	0.039	1.54	1.46
	Left Cheek	0.952	0.587	0.471	0.113	1.54	1.54
	Left Tilted	0.952	0.587	0.471	0.092	1.54	1.52
FR1 n78 Ant 2	Right Cheek	0.953	0.587	0.471	0.040	1.54	1.46
	Right Tilted	0.953	0.587	0.471	0.039	1.54	1.46
	Left Cheek	0.953	0.587	0.471	0.113	1.54	1.54
	Left Tilted	0.953	0.587	0.471	0.092	1.54	1.52
FR1 n78 Ant 3	Right Cheek	0.057	0.587	0.471	0.040	0.64	0.57
	Right Tilted	0.057	0.587	0.471	0.039	0.64	0.57
	Left Cheek	0.064	0.587	0.471	0.113	0.65	0.65
	Left Tilted	0.118	0.587	0.471	0.092	0.71	0.68
FR1 n78 Ant 5	Right Cheek	0.112	0.587	0.471	0.040	0.70	0.62
	Right Tilted	0.109	0.587	0.471	0.039	0.70	0.62
	Left Cheek	0.211	0.587	0.471	0.113	0.80	0.80
	Left Tilted	0.139	0.587	0.471	0.092	0.73	0.70
FR1 n78 Ant 7	Right Cheek	0.117	0.587	0.471	0.040	0.70	0.63
	Right Tilted	0.107	0.587	0.471	0.039	0.69	0.62
	Left Cheek	0.089	0.587	0.471	0.113	0.68	0.67
	Left Tilted	0.098	0.587	0.471	0.092	0.69	0.66



17.3 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3+4	Case No
		WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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	0.593	0.333	0.314	0.076	0.93	0.98	
	Back	1.159	0.556	0.463	0.124	1.72	1.75	1&30
	Left side	0.327	0.039	0.024	0.009	0.37	0.36	
	Right side	0.489	0.401	0.146	0.092	0.89	0.73	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	0.884				0.88	0.88	
GSM1900 Ant 0	Front	0.440	0.333	0.314	0.076	0.77	0.83	
	Back	0.897	0.556	0.463	0.124	1.45	1.48	
	Left side	0.162	0.039	0.024	0.009	0.20	0.20	
	Right side	0.160	0.401	0.146	0.092	0.56	0.40	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	1.209				1.21	1.21	
WCDMA II Ant 0	Front	0.442	0.333	0.314	0.076	0.78	0.83	
	Back	0.787	0.556	0.463	0.124	1.34	1.37	
	Left side	0.240	0.039	0.024	0.009	0.28	0.27	
	Right side	0.139	0.401	0.146	0.092	0.54	0.38	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	1.236				1.24	1.24	
WCDMA IV Ant 0	Front	0.164	0.333	0.314	0.076	0.50	0.55	
	Back	0.288	0.556	0.463	0.124	0.84	0.88	
	Left side	0.016	0.039	0.024	0.009	0.06	0.05	
	Right side	0.057	0.401	0.146	0.092	0.46	0.30	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	1.211				1.21	1.21	
WCDMA V Ant 0	Front	0.620	0.333	0.314	0.076	0.95	1.01	
	Back	1.219	0.556	0.463	0.124	1.78	1.81	9&31
	Left side	0.304	0.039	0.024	0.009	0.34	0.34	
	Right side	0.516	0.401	0.146	0.092	0.92	0.75	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	1.006				1.01	1.01	
LTE Band 5 Ant 1	Front	0.146	0.333	0.314	0.076	0.48	0.54	
	Back	0.445	0.556	0.463	0.124	1.00	1.03	
	Left side	0.051	0.039	0.024	0.009	0.09	0.08	
	Right side	0.087	0.401	0.146	0.092	0.49	0.33	
	Top side	0.362	0.389	0.546	0.041	0.75	0.95	
	Bottom side					0.00	0.00	
LTE Band 7 Ant 5	Front	0.782	0.333	0.314	0.076	1.12	1.17	
	Back	1.253	0.556	0.463	0.124	1.81	1.84	11&32
	Left side	0.753	0.039	0.024	0.009	0.79	0.79	
	Right side	0.375	0.401	0.146	0.092	0.78	0.61	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	0.676				0.68	0.68	
LTE Band 12 Ant 0	Front	0.392	0.333	0.314	0.076	0.73	0.78	
	Back	0.836	0.556	0.463	0.124	1.39	1.42	
	Left side	0.370	0.039	0.024	0.009	0.41	0.40	
	Right side	0.662	0.401	0.146	0.092	1.06	0.90	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	0.720				0.72	0.72	
LTE Band 13 Ant 0	Front	0.599	0.333	0.314	0.076	0.93	0.99	
	Back	1.226	0.556	0.463	0.124	1.78	1.81	13&33



	Left side	0.284	0.039	0.024	0.009	0.32	0.32	
	Right side	0.639	0.401	0.146	0.092	1.04	0.88	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	1.173				1.17	1.17	
LTE Band 25 Ant 0	Front	0.508	0.333	0.314	0.076	0.84	0.90	
	Back	1.001	0.556	0.463	0.124	1.56	1.59	
	Left side	0.193	0.039	0.024	0.009	0.23	0.23	
	Right side	0.162	0.401	0.146	0.092	0.56	0.40	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	1.242				1.24	1.24	
LTE Band 26 Ant 0	Front	0.658	0.333	0.314	0.076	0.99	1.05	
	Back	1.258	0.556	0.463	0.124	1.81	1.85	17&34
	Left side	0.231	0.039	0.024	0.009	0.27	0.26	
	Right side	0.544	0.401	0.146	0.092	0.95	0.78	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	0.941				0.94	0.94	
LTE Band 66 Ant 0	Front	0.447	0.333	0.314	0.076	0.78	0.84	
	Back	1.006	0.556	0.463	0.124	1.56	1.59	
	Left side	0.183	0.039	0.024	0.009	0.22	0.22	
	Right side	0.116	0.401	0.146	0.092	0.52	0.35	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	1.259				1.26	1.26	
LTE Band 66 Ant 1	Front	0.339	0.333	0.314	0.076	0.67	0.73	
	Back	0.712	0.556	0.463	0.124	1.27	1.30	
	Left side	0.193	0.039	0.024	0.009	0.23	0.23	
	Right side	0.053	0.401	0.146	0.092	0.45	0.29	
	Top side	0.982	0.389	0.546	0.041	1.37	1.57	
	Bottom side					0.00	0.00	
LTE Band 38 Ant 5	Front	0.842	0.333	0.314	0.076	1.18	1.23	
	Back	1.260	0.556	0.463	0.124	1.82	1.85	21&35
	Left side	0.778	0.039	0.024	0.009	0.82	0.81	
	Right side	0.276	0.401	0.146	0.092	0.68	0.51	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	0.614				0.61	0.61	
LTE Band 41 Ant 1	Front	0.286	0.333	0.314	0.076	0.62	0.68	
	Back	0.454	0.556	0.463	0.124	1.01	1.04	
	Left side	0.243	0.039	0.024	0.009	0.28	0.28	
	Right side	0.055	0.401	0.146	0.092	0.46	0.29	
	Top side	0.999	0.389	0.546	0.041	1.39	1.59	
	Bottom side					0.00	0.00	
LTE Band 42 Ant 2	Front	0.463	0.333	0.314	0.076	0.80	0.85	
	Back	0.988	0.556	0.463	0.124	1.54	1.58	
	Left side	0.328	0.039	0.024	0.009	0.37	0.36	
	Right side	0.778	0.401	0.146	0.092	1.18	1.02	
	Top side	0.771	0.389	0.546	0.041	1.16	1.36	
	Bottom side					0.00	0.00	
FR1 n2 Ant 0	Front	0.436	0.333	0.314	0.076	0.77	0.83	
	Back	0.752	0.556	0.463	0.124	1.31	1.34	
	Left side	0.292	0.039	0.024	0.009	0.33	0.33	
	Right side	0.141	0.401	0.146	0.092	0.54	0.38	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	1.236				1.24	1.24	
FR1 n7 Ant 1	Front	0.320	0.333	0.314	0.076	0.65	0.71	
	Back	0.568	0.556	0.463	0.124	1.12	1.16	
	Left side	0.172	0.039	0.024	0.009	0.21	0.21	
	Right side	0.053	0.401	0.146	0.092	0.45	0.29	



	Top side	0.977	0.389	0.546	0.041	1.37	1.56	
	Bottom side					0.00	0.00	
FR1 n7 Ant 5	Front	0.875	0.333	0.314	0.076	1.21	1.27	
	Back	1.253	0.556	0.463	0.124	1.81	1.84	25&36
	Left side	0.828	0.039	0.024	0.009	0.87	0.86	
	Right side	0.318	0.401	0.146	0.092	0.72	0.56	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	0.691				0.69	0.69	
FR1 n66 Ant 1	Front	0.556	0.333	0.314	0.076	0.89	0.95	
	Back	0.721	0.556	0.463	0.124	1.28	1.31	
	Left side	0.259	0.039	0.024	0.009	0.30	0.29	
	Right side	0.098	0.401	0.146	0.092	0.50	0.34	
	Top side	0.985	0.389	0.546	0.041	1.37	1.57	
	Bottom side					0.00	0.00	
FR1 n78 Ant 2	Front	0.469	0.333	0.314	0.076	0.80	0.86	
	Back	0.914	0.556	0.463	0.124	1.47	1.50	
	Left side	0.163	0.039	0.024	0.009	0.20	0.20	
	Right side	0.744	0.401	0.146	0.092	1.15	0.98	
	Top side	0.783	0.389	0.546	0.041	1.17	1.37	
	Bottom side					0.00	0.00	
FR1 n78 Ant 3	Front	0.017	0.333	0.314	0.076	0.35	0.41	
	Back	0.987	0.556	0.463	0.124	1.54	1.57	
	Left side	0.130	0.039	0.024	0.009	0.17	0.16	
	Right side	0.015	0.401	0.146	0.092	0.42	0.25	
	Top side	0.021	0.389	0.546	0.041	0.41	0.61	
	Bottom side					0.00	0.00	
FR1 n78 Ant 5	Front	0.738	0.333	0.314	0.076	1.07	1.13	
	Back	1.074	0.556	0.463	0.124	1.63	1.66	28&37
	Left side	0.784	0.039	0.024	0.009	0.82	0.82	
	Right side	0.086	0.401	0.146	0.092	0.49	0.32	
	Top side		0.389	0.546	0.041	0.39	0.59	
	Bottom side	0.364				0.36	0.36	
FR1 n78 Ant 7	Front	0.071	0.333	0.314	0.076	0.40	0.46	
	Back	0.974	0.556	0.463	0.124	1.53	1.56	
	Left side	0.041	0.039	0.024	0.009	0.08	0.07	
	Right side	0.275	0.401	0.146	0.092	0.68	0.51	
	Top side	0.118	0.389	0.546	0.041	0.51	0.71	
	Bottom side					0.00	0.00	



17.4 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3+4	Case No
		WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Bluetooth Ant 8	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	0.593	0.556	0.377	0.076	1.15	1.05	
	Back	1.159	0.556	0.473	0.124	1.72	1.76	1&2
GSM1900 Ant 0	Front	0.447	0.556	0.377	0.076	1.00	0.90	
	Back	1.246	0.556	0.473	0.124	1.80	1.84	3&4
WCDMA II Ant 0	Front	0.599	0.556	0.377	0.076	1.16	1.05	
	Back	1.250	0.556	0.473	0.124	1.81	1.85	5&6
WCDMA IV Ant 0	Front	0.606	0.556	0.377	0.076	1.16	1.06	
	Back	1.256	0.556	0.473	0.124	1.81	1.85	7&8
WCDMA V Ant 0	Front	0.620	0.556	0.377	0.076	1.18	1.07	
	Back	1.219	0.556	0.473	0.124	1.78	1.82	9&10
LTE Band 5 Ant 1	Front	0.146	0.556	0.377	0.076	0.70	0.60	
	Back	0.445	0.556	0.473	0.124	1.00	1.04	
LTE Band 7 Ant 5	Front	0.782	0.556	0.377	0.076	1.34	1.24	
	Back	1.253	0.556	0.473	0.124	1.81	1.85	11&12
LTE Band 12 Ant 0	Front	0.392	0.556	0.377	0.076	0.95	0.85	
	Back	0.836	0.556	0.473	0.124	1.39	1.43	
LTE Band 13 Ant 0	Front	0.599	0.556	0.377	0.076	1.16	1.05	
	Back	1.226	0.556	0.473	0.124	1.78	1.82	13&14
LTE Band 25 Ant 0	Front	0.627	0.556	0.377	0.076	1.18	1.08	
	Back	1.246	0.556	0.473	0.124	1.80	1.84	15&16
LTE Band 26 Ant 0	Front	0.658	0.556	0.377	0.076	1.21	1.11	
	Back	1.258	0.556	0.473	0.124	1.81	1.86	17&18
LTE Band 66 Ant 0	Front	0.559	0.556	0.377	0.076	1.12	1.01	
	Back	1.236	0.556	0.473	0.124	1.79	1.83	19&20
LTE Band 66 Ant 1	Front	0.675	0.556	0.377	0.076	1.23	1.13	
	Back	0.675	0.556	0.473	0.124	1.23	1.27	
LTE Band 38 Ant 5	Front	0.842	0.556	0.377	0.076	1.40	1.30	
	Back	1.260	0.556	0.473	0.124	1.82	1.86	21&22
LTE Band 41 Ant 1	Front	0.470	0.556	0.377	0.076	1.03	0.92	
	Back	0.470	0.556	0.473	0.124	1.03	1.07	
LTE Band 42 Ant 2	Front	0.988	0.556	0.377	0.076	1.54	1.44	
	Back	0.988	0.556	0.473	0.124	1.54	1.59	
FR1 n2 Ant 0	Front	0.715	0.556	0.377	0.076	1.27	1.17	
	Back	1.240	0.556	0.473	0.124	1.80	1.84	23&24
FR1 n7 Ant 1	Front	0.507	0.556	0.377	0.076	1.06	0.96	
	Back	0.507	0.556	0.473	0.124	1.06	1.10	
FR1 n7 Ant 5	Front	0.875	0.556	0.377	0.076	1.43	1.33	
	Back	1.253	0.556	0.473	0.124	1.81	1.85	25&26
FR1 n66 Ant 1	Front	0.643	0.556	0.377	0.076	1.20	1.10	
	Back	0.643	0.556	0.473	0.124	1.20	1.24	
FR1 n78 Ant 2	Front	0.914	0.556	0.377	0.076	1.47	1.37	
	Back	0.914	0.556	0.473	0.124	1.47	1.51	
FR1 n78 Ant 3	Front	0.987	0.556	0.377	0.076	1.54	1.44	
	Back	0.987	0.556	0.473	0.124	1.54	1.58	
FR1 n78 Ant 5	Front	0.738	0.556	0.377	0.076	1.29	1.19	
	Back	1.074	0.556	0.473	0.124	1.63	1.67	27&28
FR1 n78 Ant 7	Front	0.974	0.556	0.377	0.076	1.53	1.43	
	Back	0.974	0.556	0.473	0.124	1.53	1.57	



<Sensor off>

WWAN Band	Exposure Position	1	2	3	1+2	1+3
		WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM850 Ant 0	Front 15 mm	0.393	0.252	0.482	0.65	0.88
	Back at 17mm	0.461	0.297	0.533	0.76	0.99
GSM1900 Ant 0	Front 15 mm	0.360	0.252	0.482	0.61	0.84
	Back at 17mm	0.948	0.297	0.533	1.25	1.48
WCDMA II Ant 0	Front 15 mm	0.574	0.252	0.482	0.83	1.06
	Back at 17mm	0.948	0.297	0.533	1.25	1.48
WCDMA IV Ant 0	Front 15 mm	0.800	0.252	0.482	1.05	1.28
	Back at 17mm	0.633	0.297	0.533	0.93	1.17
WCDMA V Ant 0	Front 15 mm	0.237	0.252	0.482	0.49	0.72
	Back at 17mm	0.390	0.297	0.533	0.69	0.92
LTE Band 5 Ant 1	Front 15 mm		0.252	0.482	0.25	0.48
	Back at 17mm		0.297	0.533	0.30	0.53
LTE Band 7 Ant 5	Front 15 mm	0.491	0.252	0.482	0.74	0.97
	Back at 17mm	0.606	0.297	0.533	0.90	1.14
LTE Band 12 Ant 0	Front 15 mm		0.252	0.482	0.25	0.48
	Back at 17mm		0.297	0.533	0.30	0.53
LTE Band 13 Ant 0	Front 15 mm	0.308	0.252	0.482	0.56	0.79
	Back at 17mm	0.497	0.297	0.533	0.79	1.03
LTE Band 25 Ant 0	Front 15 mm	0.437	0.252	0.482	0.69	0.92
	Back at 17mm	0.745	0.297	0.533	1.04	1.28
LTE Band 26 Ant 0	Front 15 mm	0.277	0.252	0.482	0.53	0.76
	Back at 17mm	0.378	0.297	0.533	0.68	0.91
LTE Band 66 Ant 0	Front 15 mm	0.821	0.252	0.482	1.07	1.30
	Back at 17mm	1.010	0.297	0.533	1.31	1.54
LTE Band 66 Ant 1	Front 15 mm	0.126	0.252	0.482	0.38	0.61
	Back at 17mm	0.161	0.297	0.533	0.46	0.69
LTE Band 38 Ant 5	Front 15 mm	0.489	0.252	0.482	0.74	0.97
	Back at 17mm	0.599	0.297	0.533	0.90	1.13
LTE Band 41 Ant 1	Front 15 mm	0.401	0.252	0.482	0.65	0.88
	Back at 17mm	0.635	0.297	0.533	0.93	1.17
LTE Band 42 Ant 2	Front 15 mm	0.465	0.252	0.482	0.72	0.95
	Back at 17mm	0.669	0.297	0.533	0.97	1.20
FR1 n2 Ant 0	Front 15 mm	0.890	0.252	0.482	1.14	1.37
	Back at 17mm	0.687	0.297	0.533	0.98	1.22
FR1 n7 Ant 1	Front 15 mm	0.999	0.252	0.482	1.25	1.48
	Back at 17mm	1.036	0.297	0.533	1.33	1.57
FR1 n7 Ant 5	Front 15 mm	0.959	0.252	0.482	1.21	1.44
	Back at 17mm	0.664	0.297	0.533	0.96	1.20
FR1 n66 Ant 1	Front 15 mm	0.159	0.252	0.482	0.41	0.64
	Back at 17mm	0.173	0.297	0.533	0.47	0.71
FR1 n78 Ant 2	Front 15 mm	0.822	0.252	0.482	1.07	1.30
	Back at 17mm	0.822	0.297	0.533	1.12	1.36
FR1 n78 Ant 3	Front 15 mm	0.114	0.252	0.482	0.37	0.60
	Back at 17mm	0.252	0.297	0.533	0.55	0.79
FR1 n78 Ant 5	Front 15 mm		0.252	0.482	0.25	0.48
	Back at 17mm		0.297	0.533	0.30	0.53
FR1 n78 Ant 7	Front 15 mm	0.014	0.252	0.482	0.27	0.50
	Back at 17mm	0.240	0.297	0.533	0.54	0.77



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.

WWAN Band	Exposure Position	1	2	3	1+2	1+3
		WWAN	WLAN2.4GHz Ant 8	WLAN5GHz Ant 8	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			0.791	0.00	0.79
	Back	2.705	1.220	0.791	3.93	3.50
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side	2.565			2.57	2.57
GSM1900 Ant 0	Front	0.924		0.791	0.92	1.72
	Back	2.426	1.220	0.791	3.65	3.22
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side	2.763			2.76	2.76
WCDMA II Ant 0	Front	1.420		0.791	1.42	2.21
	Back	2.719	1.220	0.791	3.94	3.51
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side	2.035			2.04	2.04
WCDMA IV Ant 0	Front	1.268		0.791	1.27	2.06
	Back	1.739	1.220	0.791	2.96	2.53
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side	2.725			2.73	2.73
WCDMA V Ant 0	Front			0.791	0.00	0.79
	Back	2.405	1.220	0.791	3.63	3.20
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side	2.165			2.17	2.17
LTE Band 5 Ant 1	Front			0.791	0.00	0.79
	Back		1.220	0.791	1.22	0.79
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side				0.00	0.00
LTE Band 7 Ant 5	Front	1.791		0.791	1.79	2.58
	Back	2.725	1.220	0.791	3.95	3.52
	Left side	1.817		0.791	1.82	2.61
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side	1.343			1.34	1.34
LTE Band 12 Ant 0	Front			0.791	0.00	0.79
	Back		1.220	0.791	1.22	0.79
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79



	Bottom side				0.00	0.00
LTE Band 13 Ant 0	Front			0.791	0.00	0.79
	Back	2.207	1.220	0.791	3.43	3.00
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side	2.106			2.11	2.11
	LTE Band 25 Ant 0	Front	1.576		0.791	1.58
Back		2.725	1.220	0.791	3.95	3.52
Left side				0.791	0.00	0.79
Right side				0.791	0.00	0.79
Top side				0.791	0.00	0.79
Bottom side		2.153			2.15	2.15
LTE Band 26 Ant 0	Front			0.791	0.00	0.79
	Back	2.469	1.220	0.791	3.69	3.26
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side				0.00	0.00
LTE Band 66 Ant 0	Front	1.337		0.791	1.34	2.13
	Back	2.259	1.220	0.791	3.48	3.05
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side	2.751			2.75	2.75
LTE Band 66 Ant 1	Front			0.791	0.00	0.79
	Back		1.220	0.791	1.22	0.79
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side	2.676		0.791	2.68	3.47
	Bottom side				0.00	0.00
LTE Band 38 Ant 5	Front	1.672		0.791	1.67	2.46
	Back	2.751	1.220	0.791	3.97	3.54
	Left side	1.871		0.791	1.87	2.66
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side	1.251			1.25	1.25
LTE Band 41 Ant 1	Front	2.478		0.791	2.48	3.27
	Back	1.473	1.220	0.791	2.69	2.26
	Left side	2.484		0.791	2.48	3.28
	Right side			0.791	0.00	0.79
	Top side	2.748		0.791	2.75	3.54
	Bottom side				0.00	0.00
LTE Band 42 Ant 2	Front	1.953		0.791	1.95	2.74
	Back	2.612	1.220	0.791	3.83	3.40
	Left side			0.791	0.00	0.79
	Right side	0.712		0.791	0.71	1.50
	Top side	1.604		0.791	1.60	2.40
	Bottom side				0.00	0.00
FR1 n2 Ant 0	Front	1.590		0.791	1.59	2.38
	Back	2.763	1.220	0.791	3.98	3.55
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side	2.265			2.27	2.27
FR1 n7 Ant 1	Front	2.067		0.791	2.07	2.86

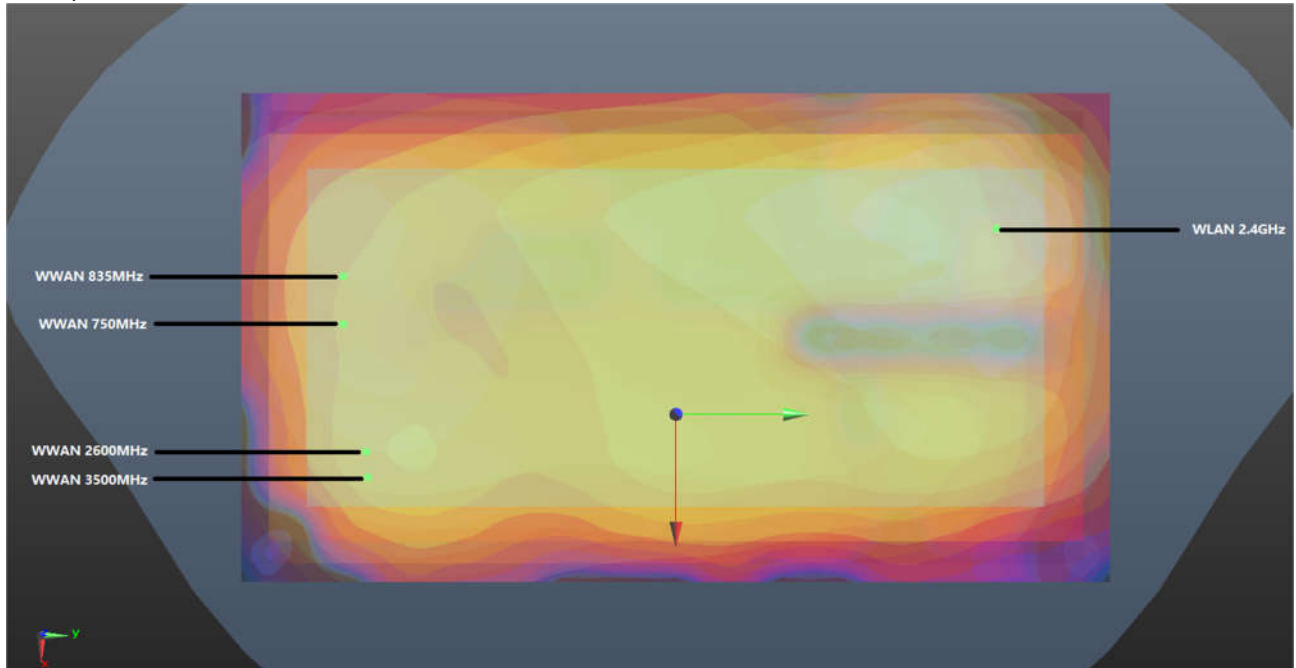


	Back	2.639	1.220	0.791	3.86	3.43
	Left side	1.892		0.791	1.89	2.68
	Right side			0.791	0.00	0.79
	Top side	2.334		0.791	2.33	3.13
	Bottom side				0.00	0.00
FR1 n7 Ant 5	Front	2.010		0.791	2.01	2.80
	Back	2.738	1.220	0.791	3.96	3.53
	Left side	1.893		0.791	1.89	2.68
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side	1.532			1.53	1.53
FR1 n66 Ant 1	Front			0.791	0.00	0.79
	Back		1.220	0.791	1.22	0.79
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side	2.713		0.791	2.71	3.50
	Bottom side				0.00	0.00
FR1 n78 Ant 2	Front	2.709		0.791	2.71	3.50
	Back	2.713	1.220	0.791	3.93	3.50
	Left side			0.791	0.00	0.79
	Right side	0.860		0.791	0.86	1.65
	Top side	1.730		0.791	1.73	2.52
	Bottom side				0.00	0.00
FR1 n78 Ant 3	Front			0.791	0.00	0.79
	Back	2.315	1.220	0.791	3.54	3.11
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side				0.00	0.00
FR1 n78 Ant 5	Front			0.791	0.00	0.79
	Back		1.220	0.791	1.22	0.79
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side				0.00	0.00
FR1 n78 Ant 7	Front			0.791	0.00	0.79
	Back	1.758	1.220	0.791	2.98	2.55
	Left side			0.791	0.00	0.79
	Right side			0.791	0.00	0.79
	Top side			0.791	0.00	0.79
	Bottom side				0.00	0.00

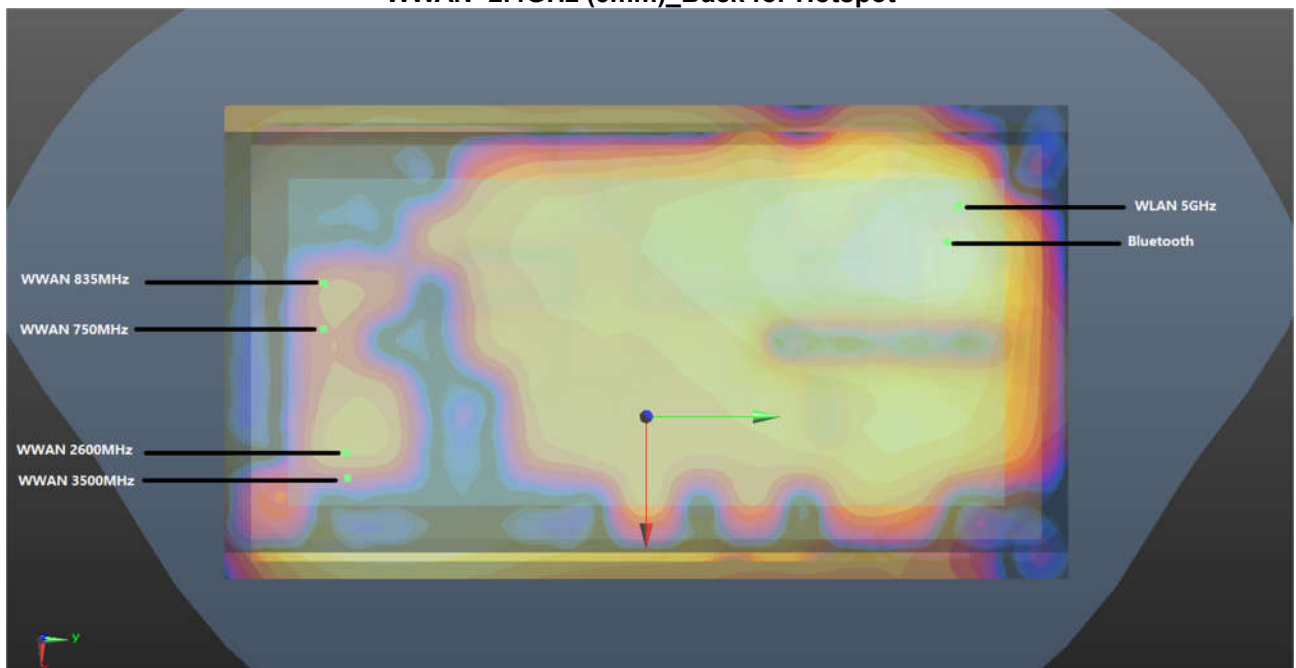
17.6 SPLSR Evaluation and Analysis

General Note:

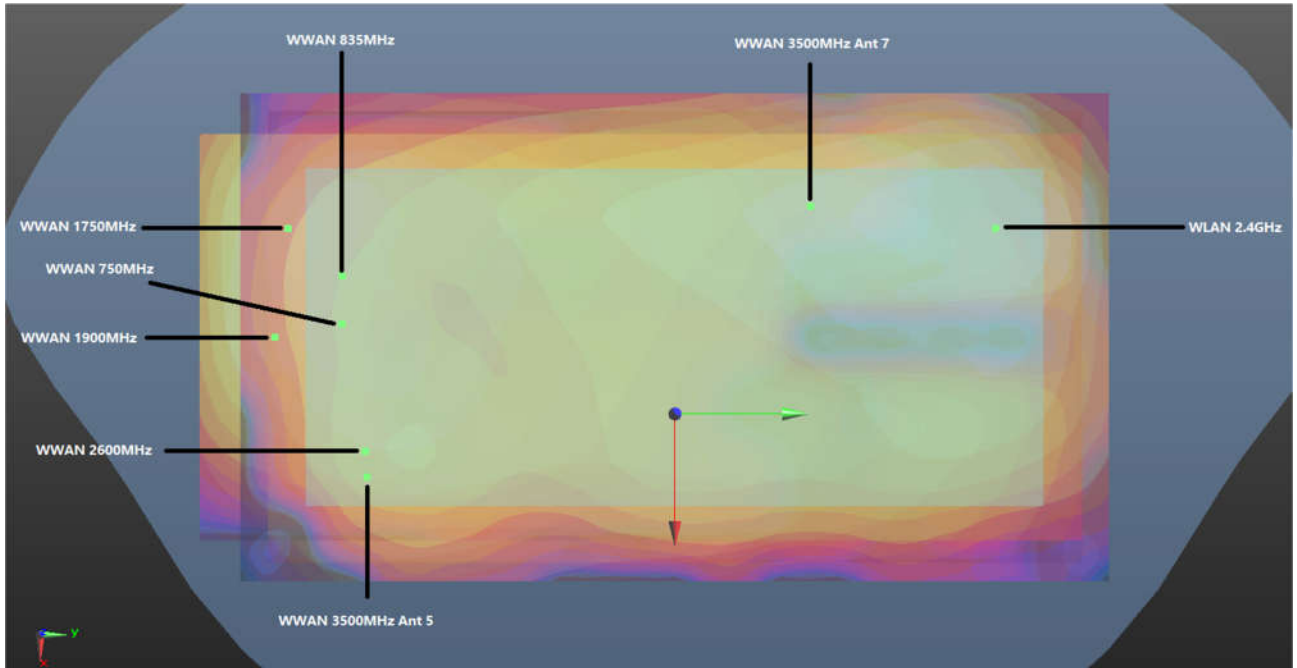
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR, simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop, instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.



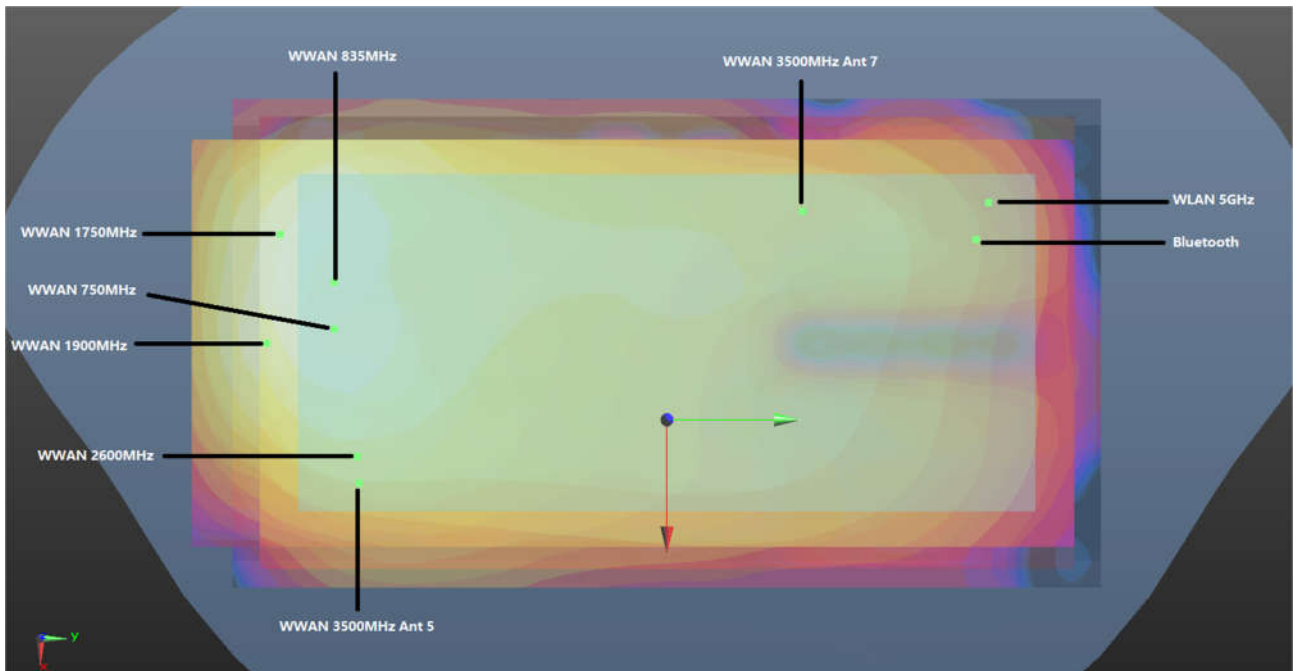
WWAN+2.4GHz (5mm)_Back for Hotspot



WWAN+5GHz+Bluetooth (5mm)_Back for Hotspot



WWAN+2.4GHz (5mm)_Back for Body-worn



WWAN+5GHz+Bluetooth (5mm)_Back for Body-worn



<Hotspot>

Case	Band	Position	SAR (W/kg)	Gap SAR peak location (mm)				3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 1	GSM850 Ant 0	Back	1.159	5mm	-8.7	-75.1	1.31	150.5	1.72	0.01	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
Case 30	GSM850 Ant 0	Back	1.159	5mm	-8.7	-75.1	1.31	143.9	1.75	0.02	Not required
	WLAN5GHz Ant 8		0.463	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 9	WCDMA V Ant 0	Back	1.219	5mm	-12.5	-79.9	1.44	155.0	1.78	0.02	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
Case 31	WCDMA V Ant 0	Back	1.219	5mm	-12.5	-79.9	1.44	148.4	1.81	0.02	Not required
	WLAN5GHz Ant 8		0.463	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 11	LTE Band 7 Ant 5	Back	1.253	5mm	24.2	-71.4	1.41	153.3	1.81	0.02	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
Case 32	LTE Band 7 Ant 5	Back	1.253	5mm	24.2	-71.4	1.41	146.3	1.84	0.02	Not required
	WLAN5GHz Ant 8		0.463	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 13	LTE Band 13 Ant 0	Back	1.226	5mm	-12.6	-79.9	1.46	155.0	1.78	0.02	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
Case 33	LTE Band 13 Ant 0	Back	1.226	5mm	-12.6	-79.9	1.46	148.4	1.81	0.02	Not required
	WLAN5GHz Ant 8		0.463	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 17	LTE Band 26 Ant 0	Back	1.258	5mm	-12.5	-79.9	1.43	155.0	1.81	0.02	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
Case 34	LTE Band 26 Ant 0	Back	1.258	5mm	-12.5	-79.9	1.43	148.4	1.85	0.02	Not required
	WLAN5GHz Ant 8		0.463	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 21	LTE Band 38 Ant 5	Back	1.26	5mm	28.5	-68.3	1.61	151.8	1.82	0.02	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
Case 35	LTE Band 38 Ant 5	Back	1.26	5mm	28.5	-68.3	1.61	144.7	1.85	0.02	Not required
	WLAN5GHz Ant 8		0.463	5mm	-31.8	70.2	1.14				



Case	Band	Position	SAR (W/kg)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
				Gap (mm)	X	Y					Z
Case 25	Bluetooth Ant 8	Back	0.124	5mm	-18.8	68.4	1.04	152.5	1.81	0.02	Not required
	FR1 n7 Ant 5		1.253	5mm	26	-70	1.56				
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
Case 36	FR1 n7 Ant 5	Back	1.253	5mm	26	-70	1.56	145.5	1.84	0.02	Not required
	WLAN5GHz Ant 8		0.463	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 28	FR1 n78 Ant 5	Back	1.074	5mm	31	-68	1.56	152.3	1.63	0.01	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 37	FR1 n78 Ant 5	Back	1.074	5mm	31	-68	1.56	145.2	1.66	0.01	Not required
	WLAN5GHz Ant 8		0.463	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				

<Body-worn>

Case	Band	Position	SAR (W/kg)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
				Gap (mm)	X	Y					Z
Case 1	GSM850 Ant 0	Back	1.159	5mm	-8.7	-75.1	1.31	150.5	1.72	0.01	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 2	GSM850 Ant 0	Back	1.159	5mm	-8.7	-75.1	1.31	143.9	1.76	0.02	Not required
	WLAN5GHz Ant 8		0.473	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 3	GSM1900 Ant 0	Back	1.246	5mm	1.6	-86.9	1.46	163.4	1.80	0.01	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 4	GSM1900 Ant 0	Back	1.246	5mm	1.6	-86.9	1.46	156.6	1.84	0.02	Not required
	WLAN5GHz Ant 8		0.473	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 5	WCDMA II Ant 0	Back	1.25	5mm	1.6	-83.8	1.55	160.3	1.81	0.02	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 6	WCDMA II Ant 0	Back	1.25	5mm	1.6	-83.8	1.55	153.6	1.85	0.02	Not required
	WLAN5GHz Ant 8		0.473	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 7	WCDMA IV Ant 0	Back	1.256	5mm	-20.8	-82.3	1.45	157.1	1.81	0.02	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 8	Band	Position	SAR (W/kg)	Gap (mm)	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR



Case	Band	Position	SAR (W/kg)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
				Gap (mm)	X	Y					Z
	WCDMA IV Ant 0	Back	1.256	5mm	-20.8	-82.3	1.45	150.7	1.85	0.02	Not required
	WLAN5GHz Ant 8		0.473	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 9	WCDMA V Ant 0	Back	1.219	5mm	-12.5	-79.9	1.44	155.0	1.78	0.02	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 10	WCDMA V Ant 0	Back	1.219	5mm	-12.5	-79.9	1.44	148.4	1.82	0.02	Not required
	WLAN5GHz Ant 8		0.473	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 11	LTE Band 7 Ant 5	Back	1.253	5mm	24.2	-71.4	1.41	153.3	1.81	0.02	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 12	LTE Band 7 Ant 5	Back	1.253	5mm	24.2	-71.4	1.41	146.3	1.85	0.02	Not required
	WLAN5GHz Ant 8		0.473	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 13	LTE Band 13 Ant 0	Back	1.226	5mm	-12.6	-79.9	1.46	155.0	1.78	0.02	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 14	LTE Band 13 Ant 0	Back	1.226	5mm	-12.6	-79.9	1.46	148.4	1.82	0.02	Not required
	WLAN5GHz Ant 8		0.473	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 15	LTE Band 25 Ant 0	Back	1.246	5mm	1.6	-85.6	1.54	162.1	1.80	0.01	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 16	LTE Band 25 Ant 0	Back	1.246	5mm	1.6	-85.6	1.54	155.3	1.84	0.02	Not required
	WLAN5GHz Ant 8		0.473	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 17	LTE Band 26 Ant 0	Back	1.258	5mm	-12.5	-79.9	1.43	155.0	1.81	0.02	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 18	LTE Band 26 Ant 0	Back	1.258	5mm	-12.5	-79.9	1.43	148.4	1.86	0.02	Not required
	WLAN5GHz Ant 8		0.473	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 19	LTE Band 66 Ant 0	Back	1.236	5mm	-22.6	-83.9	1.45	158.7	1.79	0.02	Not required
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 20	LTE Band 66 Ant 0	Back	1.236	5mm	-22.6	-83.9	1.45	152.3	1.83	0.02	Not required



Case	Band	Position	SAR (W/kg)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
				Gap (mm)	X	Y					Z
	WLAN5GHz Ant 8		0.473	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 21				Gap (mm)	X	Y	Z	151.8	1.82	0.02	Not required
	LTE Band 38 Ant 5	Back	1.26	5mm	28.5	-68.3	1.61				
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
Case 22				Gap (mm)	X	Y	Z	144.7	1.86	0.02	Not required
	LTE Band 38 Ant 5	Back	1.26	5mm	28.5	-68.3	1.61				
	WLAN5GHz Ant 8		0.473	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 23				Gap (mm)	X	Y	Z	161.1	1.80	0.01	Not required
	FR1 n2 Ant 0	Back	1.24	5mm	4.4	-84.1	1.65				
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
Case 24				Gap (mm)	X	Y	Z	154.3	1.84	0.02	Not required
	FR1 n2 Ant 0	Back	1.24	5mm	4.4	-84.1	1.65				
	WLAN5GHz Ant 8		0.473	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 25				Gap (mm)	X	Y	Z	152.5	1.81	0.02	Not required
	FR1 n7 Ant 5	Back	1.253	5mm	26	-70	1.56				
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
Case 26				Gap (mm)	X	Y	Z	145.5	1.85	0.02	Not required
	FR1 n7 Ant 5	Back	1.253	5mm	26	-70	1.56				
	WLAN5GHz Ant 8		0.473	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				
Case 27				Gap (mm)	X	Y	Z	152.3	1.63	0.01	Not required
	FR1 n78 Ant 5	Back	1.074	5mm	31	-68	1.56				
	WLAN2.4GHz Ant 8		0.556	5mm	-22	74.8	1.12				
Case 28				Gap (mm)	X	Y	Z	145.2	1.67	0.01	Not required
	FR1 n78 Ant 5	Back	1.074	5mm	31	-68	1.56				
	WLAN5GHz Ant 8		0.473	5mm	-31.8	70.2	1.14				
	Bluetooth Ant 8		0.124	5mm	-18.8	68.4	1.04				

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18. 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.

19. References

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