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Part 1 SAR TEST REPORT

Applicant Name:

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Rep. of Korea

Date of Issue: May. 20, 2022

Test Report No.: HCT-SR-2204-FC002-R1

Test Site: HCT CO., LTD.

FCC ID:

A3LSMG736U

Equipment Type:

Mobile Phone

Application Type

Certification

FCC Rule Part(s):

CFR §2.1093

Model Name:

SM-G736U

Additional Model Name:

SM-G736U1

Date of Test:

Apr. 04, 2022 ~ Apr. 29, 2022

This device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in FCC KDB procedures and had been tested in accordance with the measurement procedures specified in FCC KDB procedures.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Tested By

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Test Engineer
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Reviewed By

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REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	May. 16, 2022	Initial Release
1	May. 20, 2022	Revised Page 6, 7, 51, 371, 376

This test results were applied only to the test methods required by the standard.

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Appendix I. DLCA Power Measurement

1. Test Regulations

The tests documented in this report were performed in accordance with FCC CFR § 2.1093, IEEE 1528-2013, ANSI C63.26-2015 the following FCC Published RF exposure KDB procedures:

- FCC KDB Publication 941225 D01 3G SAR Procedures v03r01
- FCC KDB Publication 941225 D06 Hot Spot SAR v02r01
- FCC KDB Publication 941225 D05 SAR for LTE Devices v02r05
- FCC KDB Publication 941225 D05A LTE Rel.10 KDB Inquiry sheet v01r02
- FCC KDB Publication 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB Publication 447498 D01 General SAR Guidance v06
- FCC KDB Publication 648474 D04 Handset SAR v01r03
- FCC KDB Publication 616217 D04 v01r02 (Proximity Sensor)
- FCC KDB Publication 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- FCC KDB Publication 865664 D02 SAR Reporting v01r02
- FCC KDB Publication 690783 D01 SAR Listings on Grants v01r03
- FCC KDB Publication 971168 D01 Power Meas License Digital Systems v03r01

In Addition to the above, the following information was used.

- October 2013 TCB Workshop Notes (GPRS testing criteria)
- October 2014 TCB Workshop Notes (Overlapping LTE Bands)
- April 2015 TCB Workshop Notes (Simultaneous transmission summation clarified)
- October 2016 TCB Workshop Notes (Bluetooth Duty Factor)
- November 2017 TCBC Workshop Notes (LTE Carrier Aggregation)
- April 2018 TCBC Workshop Notes (LTE DL CA SAR Test Exclusion)

2. Test Location

2.1 Test Laboratory

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2.2 Test Facilities

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Korea	National Radio Research Agency (Designation No. KR0032)
	KOLAS (Testing No. KT197)

3. Information of the EUT

3.1 General Information of the EUT

Model Name	SM-G736U
Additional Model Name	SM-G736U1
Equipment Type	Mobile Phone
FCC ID	A3LSMG736U
Application Type	Certification
Applicant	SAMSUNG Electronics Co., Ltd.

3.2 Attestation of test result of device under test

The Highest Reported SAR						
Band	Tx. Frequency	Equipment Class	Reported SAR (W/kg)			
			1g Head	1g Body-Worn	1g Hotspot	10g Extremity
GSM/GPRS/EDGE 850	824.2 MHz ~ 848.8 MHz	PCE	0.46	0.43	0.38	N/A
GSM/GPRS/EDGE 1900	1 850.2 MHz ~ 1 909.8 MHz	PCE	0.37	0.28	0.79	1.50
UMTS Band 5	826.4 MHz ~ 846.6 MHz	PCE	0.29	0.29	0.50	N/A
UMTS Band 4	1 712.4 MHz ~ 1 752.6 MHz	PCE	0.24	0.37	0.58	N/A
UMTS Band 2	1 852.4 MHz ~ 1 907.6 MHz	PCE	0.37	0.52	0.98	1.97
LTE Band 2 (PCS)	1 850.7 MHz ~ 1 909.3 MHz	PCE	N/A	N/A	N/A	N/A
LTE Band 4 (AWS)	1 710.7 MHz ~ 1 754.3 MHz	PCE	N/A	N/A	N/A	N/A
LTE Band 5 (Cell)	824.7 MHz ~ 848.3 MHz	PCE	N/A	N/A	N/A	N/A
LTE Band 7	2 502.5 MHz ~ 2 567.5 MHz	PCE	0.52	0.63	0.56	N/A
LTE Band 12	699.7 MHz ~ 715.3 MHz	PCE	0.39	0.33	0.54	N/A
LTE Band 13	779.5 MHz ~ 784.5 MHz	PCE	0.23	0.33	0.52	N/A
LTE Band 14	790.5 MHz ~ 795.5 MHz	PCE	0.18	0.25	0.44	N/A
LTE Band 25(PCS) (Low)	1 850.7 MHz ~ 1 914.3 MHz	PCE	0.54	0.52	0.41	N/A
LTE Band 25(PCS) (Upper)	1 850.7 MHz ~ 1 914.3 MHz	PCE	0.96	0.31	0.51	N/A
LTE Band 26(Cell)	814.7 MHz ~ 848.3 MHz	PCE	0.47	0.41	0.73	N/A
LTE Band 30	2 307.5 MHz ~ 2 312.5 MHz	PCE	0.36	0.37	0.58	N/A
LTE TDD Band 38	2 572.5 MHz ~ 2 617.5 MHz	PCE	N/A	N/A	N/A	N/A
LTE TDD Band 40 (Low)	2 302.5 MHz ~ 2 397.5 MHz	PCE	<0.10	<0.10	<0.10	N/A
LTE TDD Band 40 (Upper)	2 302.5 MHz ~ 2 397.5 MHz	PCE	<0.10	<0.10	<0.10	N/A
LTE TDD Band 41	2 498.5 MHz ~ 2 687.5 MHz	PCE	0.20	0.51	0.80	N/A
LTE TDD Band 48	3 552.5 MHz ~ 3 697.5 MHz	PCE	1.03	0.36	1.06	N/A
LTE Band 66 (AWS) (Low)	1 710.7 MHz ~ 1 779.3 MHz	PCE	0.31	0.40	0.53	N/A
LTE Band 66 (AWS) (Upper)	1 710.7 MHz ~ 1 779.3 MHz	PCE	0.75	0.24	0.48	N/A
LTE Band 71	665.5 MHz ~ 695.5 MHz	PCE	0.32	0.36	0.52	N/A
NR Band n2	1 852.5 MHz ~ 1 907.5 MHz	PCE	N/A	N/A	N/A	N/A
NR Band n5	826.5 MHz ~ 846.5 MHz	PCE	0.44	0.43	0.79	N/A
NR Band n12	701.5 MHz ~ 713.5 MHz	PCE	0.27	0.34	0.42	N/A
NR Band n25	1 852.5 MHz ~ 1 912.5 MHz	PCE	0.47	0.48	0.65	N/A
NR Band n30	2 307.5 MHz ~ 2 312.5 MHz	PCE	0.41	0.50	0.37	N/A
NR Band n41	2 506.02 MHz ~ 2 679.99 MHz	PCE	0.39	0.46	0.81	N/A
NR Band n66	1 712.5 MHz ~ 1 777.5 MHz	PCE	0.43	0.44	0.50	N/A
NR Band n71	665.5 MHz ~ 695.5 MHz	PCE	0.33	0.26	0.55	N/A
NR Band n77	3 705 MHz ~ 3 975 MHz	PCE	0.84	0.20	0.63	N/A
NR Band 77(DoD)	3 455.04 MHz ~ 3 544.98 MHz	PCE	0.90	0.31	0.77	N/A
802.11b	2 412 MHz ~ 2 462 MHz	DTS	<0.10	1.08	0.76	N/A
U-NII-1	5 180 MHz ~ 5 240 MHz	NII	N/A	N/A	N/A	N/A
U-NII-2A	5 260 MHz ~ 5 320 MHz	NII	<0.10	0.38	N/A	1.17
U-NII-2C	5 500 MHz ~ 5 720 MHz	NII	<0.10	0.32	N/A	1.34
U-NII-3	5 745 MHz ~ 5 825 MHz	NII	<0.10	0.32	0.52	N/A
Bluetooth	2 402 MHz ~ 2 480 MHz	DSS	<0.10	0.41	0.52	N/A
Simultaneous SAR per KDB 690783 D01v01r03			0.978	1.266	1.579	2.643
Date(s) of Tests:		Apr. 04, 2022 ~ Apr. 29, 2022				

4. Device Under Test Description

4.1 DUT specification

Device Wireless specification overview		
Band & Mode	Operating Mode	Tx Frequency
GSM850	Voice / Data	824.2 MHz ~ 848.8 MHz
GSM1900	Voice / Data	1 850.2 MHz ~ 1 909.8 MHz
UMTS Band 5	Voice / Data	826.4 MHz ~ 846.6 MHz
UMTS Band 4	Voice / Data	1 712.4 MHz ~ 1 752.6 MHz
UMTS Band 2	Voice / Data	1 852.4 MHz ~ 1 907.6 MHz
LTE Band 2 (PCS)	Voice / Data	1 850.7 MHz ~ 1 909.3 MHz
LTE Band 4 (AWS)	Voice / Data	1 710.7 MHz ~ 1 754.3 MHz
LTE Band 5 (Cell)	Voice / Data	824.7 MHz ~ 848.3 MHz
LTE Band 7	Voice / Data	2 502.5 MHz ~ 2 567.5 MHz
LTE Band 12	Voice / Data	699.7 MHz ~ 715.3 MHz
LTE Band 13	Voice / Data	779.5 MHz ~ 784.5 MHz
LTE Band 14	Voice / Data	790.5 MHz ~ 795.5 MHz
LTE Band 25	Voice / Data	1 850.7 MHz ~ 1 914.3 MHz
LTE Band 26	Voice / Data	814.7 MHz ~ 848.3 MHz
LTE Band 30	Voice / Data	2 307.5 MHz ~ 2 312.5 MHz
LTE TDD Band 38	Voice / Data	2 572.5 MHz ~ 2 617.5 MHz
LTE TDD Band 40	Voice / Data	2 302.5 MHz ~ 2 397.5 MHz
LTE TDD Band 41	Voice / Data	2 498.5 MHz ~ 2 687.5 MHz
LTE TDD Band 48	Voice / Data	3 552.5 MHz ~ 3 697.5 MHz
LTE Band 66 (AWS)	Voice / Data	1 710.7 MHz ~ 1 779.3 MHz
LTE Band 71	Voice / Data	665.5 MHz ~ 695.5 MHz
NR Band n2	Voice / Data	1 852.5 MHz ~ 1 907.5 MHz
NR Band n5	Voice / Data	826.5 MHz ~ 846.5 MHz
NR Band n12	Voice / Data	701.5 MHz ~ 713.5 MHz
NR Band n25	Voice / Data	1 852.5 MHz ~ 1 912.5 MHz
NR Band n30	Voice / Data	2 307.5 MHz ~ 2 312.5 MHz
NR Band n41	Voice / Data	2 506.02 MHz ~ 2 679.99 MHz
NR Band n66	Voice / Data	1 712.5 MHz ~ 1 777.5 MHz
NR Band n71	Voice / Data	665.5 MHz ~ 695.5 MHz
NR Band n77	Voice / Data	3 705 MHz ~ 3 975 MHz
NR Band n77 (DoD)	Voice / Data	3 455.04 MHz ~ 3 544.98 MHz
U-NII-1	Voice / Data	5 180 MHz ~ 5 240 MHz
U-NII-2A	Voice / Data	5 260 MHz ~ 5 320 MHz
U-NII-2C	Voice / Data	5 500 MHz ~ 5 720 MHz
U-NII-3	Voice / Data	5 745 MHz ~ 5 825 MHz
U-NII-5	Data	5 955 MHz ~ 6 415 MHz
U-NII-6	Data	6 435 MHz ~ 6 525 MHz
U-NII-7	Data	6 535 MHz ~ 6 875 MHz
U-NII-8	Data	6 895 MHz ~ 7 115 MHz
2.4 GHz WLAN	Voice / Data	2 412 MHz ~ 2 462 MHz
Bluetooth / LE 5.2	Data	2 402 MHz ~ 2 480 MHz
NFC	Data	13.56 MHz

Device Description		
H/W	REV1.0	
S/W	G736U.001	
Device Serial Numbers	Mode	Serial Number
	GSM850 / GSM1900 / GSM1900 Phablet / UMTS B2 / UMTS B2 Phablet UMTS B4 / LTE B2 / LTE B2 Phablet / LTE B12 / LTE B25 / LTE B26 / LTE B41 / LTE B66 / LTE B71	VCS0052M
	LTE B7 / LTE B30	VCS0096M
	UMTS5 / LTE B5 / LTE B13 / LTE B14 / NR n5	VCS0122M
	LTE B48 / NR n77	VD1841M
	LTE B40	VCS0053M
	LTE B25_Sub #1/ LTE 66_Sub #1	VCS0122M
	NR n12 / NR n25 / NR n30 / NR n41 / NR n66 / NR n71	VCS0066M
	2.4GHz WLAN / 5GHz WLAN / 6GHz WLAN / Bluetooth	VD12266M
	The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics are within operational tolerances expected for production units.	

4.2 Time-Averaging Algorithm for RF Exposure Compliance

This equipment contains the Qualcomm SM8350 modem supporting 2G/3G/4G WWAN technologies and Sub6/mmW 5G NR bands. This modems are enabled with Qualcomm Smart Transmit feature to control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is in compliance with the FCC requirement.

This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature.

This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature.

WLAN/BT operations are not enabled with Smart Transmit.

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI). Note that the device uncertainty for sub-6GHz WWAN is 1.0dB for this EUT.

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

Measurement Condition: All conducted power and SAR measurements in this report were performed by setting Reserve_power_margin (Smart Transmit EFS entry) to 0dB.

*Note all P_{limit} EFS and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., GSM, TDD).

Plimt corresponding to 1 W/kg (1g) 2.5W/kg(10g) SAR_Design_target								Pmax	Pmax
SAR Exposure Position			Body worn/ Phablet	Phablet (Grip On)	Head (RCV ON)	Hotspot	EarJack	Maximum Tune-up Output Power (Burst Average Power) [dBm]	Maximum Tune-up Output Power (Frame Averaged Power) [dBm]
Averaging volume			1g/10g	10g	1g	1g	10g		
seperation Distance			15/0,19,13 mm	0 mm	0 mm	10 mm	0 mm		
Mode	Band	Antenna	DSI = 0	DSI = 4	DSI = 1	DSI = 2	DSI = 3		
GSM/GPRS/EDGE	850	Main 1	29.2	22.5	28.9	22.5	22.5	30.5	24.3
GSM/GPRS/EDGE	1900	Main 2	28.3	19.5	28.3	19.5	19.5	29.0	22.8
UMTS	5	Main 1	24.3	24.3	28.9	26.5	24.3	22.5	22.5
UMTS	4	Main 2	25.5	21.5	30.7	21.5	21.5	23.5	23.5
UMTS	2	Main 2	25.1	21.5	28.8	21.5	21.5	23.5	23.5
LTE FDD	12	Main 1	27.4	27.4	29.6	28.2	27.4	24.5	24.5
LTE FDD	13	Main 1	29.3	29.3	31.4	27.9	29.3	24.0	24.0
LTE FDD	14	Main 1	30.5	30.5	33.0	29.1	30.5	24.5	24.5
LTE FDD	26	Main 1	27.6	27.6	28.8	26.9	27.6	24.5	24.5
LTE FDD	5	Main 1	27.6	27.6	28.8	26.9	27.6	24.5	24.5
LTE FDD	66	Main 2	25.1	21.0	29.3	21.0	21.0	24.0	24.0
LTE FDD	66	Sub 1	26.5	24.9	19.0	26.2	24.9	22.0	22.0
LTE FDD	4	Main 2	25.1	21.0	29.3	21.0	21.0	24.0	24.0
LTE FDD	4	Sub 1	26.5	24.9	19.0	26.2	24.9	22.0	22.0
LTE FDD	2	Main 2	25.2	21.0	26.7	21.0	21.0	24.0	24.0
LTE FDD	2	Sub 1	26.4	25.0	19.0	26.4	25.0	22.0	22.0
LTE FDD	25	Main 2	25.2	21.0	26.7	21.0	21.0	24.0	24.0
LTE FDD	25	Sub 1	26.4	25.0	19.0	26.4	25.0	22.0	22.0
LTE FDD	71	Main 1	29.5	29.5	30.4	28.3	29.5	24.5	24.5
LTE FDD	7	Main 2	24.3	21.0	27.8	21.0	21.0	24.0	24.0
LTE FDD	30	Main 2	24.4	21.0	28.4	21.0	21.0	23.0	23.0
LTE TDD	40	Main 2	22.1	25.8	32.5	25.4	25.8	13.0	11.0
LTE TDD	48	Sub 3	22.1	24.2	18.0	21.4	24.2	22.5	20.5
LTE TDD PC3	41	Main 2	26.0	25.2	31.6	25.2	25.2	24.0	22.0
LTE TDD PC2	41	Main 2	28.3	27.1	31.7	24.9	27.1	26.5	22.9
LTE TDD	38	Main 2	26.0	25.2	31.6	25.2	25.2	24.0	22.0
NR FDD	5	Main1	27.9	27.9	28.5	26.1	27.9	24.0	24.0
NR FDD	12	Main 1	29.5	28.2	30.7	28.8	28.2	24.0	24.0
NR FDD	71	Main 1	30.4	29.6	30.3	28.6	29.6	24.0	24.0
NR FDD	30	Main 2	24.2	21.0	28.4	21.0	21.0	23.5	23.5
NR FDD	66	Main 2	25.3	21.0	29.0	21.0	21.0	24.0	24.0
NR FDD	2	Main 2	24.8	21.0	27.9	21.0	21.0	23.5	23.5
NR FDD	25	Main 2	24.8	21.0	27.9	21.0	21.0	23.5	23.5
NR TDD PC3	41	Main 2	21.0	21.0	21.0	21.0	21.0	24.5	24.5
NR TDD PC2	41	Main 2	21.0	21.0	21.0	21.0	21.0	26.0	26.0
NR TDD SRS0(PC2)	n77 DoD	Sub 3	17.5	17.5	17.5	17.5	17.5	27.0	27.0
NR TDD SRS0(PC3)	n77 DoD	Sub 3	17.5	17.5	17.5	17.5	17.5	24.5	24.5
NR TDD SRS1(PC2)	n77 DoD	Sub 5	15.0	15.0	15.0	15.0	15.0	22.6	22.6
NR TDD SRS1(PC3)	n77 DoD	Sub 5	15.0	15.0	15.0	15.0	15.0	22.6	22.6
NR TDD SRS2(PC2)	n77 DoD	Main 2	16.0	16.0	16.0	16.0	16.0	25.0	25.0
NR TDD SRS2(PC3)	n77 DoD	Main 2	16.0	16.0	16.0	16.0	16.0	23.5	23.5
NR TDD SRS3(PC2)	n77 DoD	Main 3	17.5	17.5	17.5	17.5	17.5	23.0	23.0
NR TDD SRS3(PC3)	n77 DoD	Main 3	17.5	17.5	17.5	17.5	17.5	23.0	23.0
NR TDD SRS0(PC2)	n77	Sub 3	17.5	17.5	17.5	17.5	17.5	27.0	27.0
NR TDD SRS0(PC3)	n77	Sub 3	17.5	17.5	17.5	17.5	17.5	24.5	24.5
NR TDD SRS1(PC2)	n77	Sub 5	15.0	15.0	15.0	15.0	15.0	22.6	22.6
NR TDD SRS1(PC3)	n77	Sub 5	15.0	15.0	15.0	15.0	15.0	22.6	22.6
NR TDD SRS2(PC2)	n77	Main 2	16.0	16.0	16.0	16.0	16.0	25.0	25.0
NR TDD SRS2(PC3)	n77	Main 2	16.0	16.0	16.0	16.0	16.0	23.5	23.5
NR TDD SRS3(PC2)	n77	Main 3	17.5	17.5	17.5	17.5	17.5	23.0	23.0
NR TDD SRS3(PC3)	n77	Main 3	17.5	17.5	17.5	17.5	17.5	23.0	23.0

*Maximum tune up output power Pmax is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty. The maximum time-averaged output power (dBm) for any 2G/3G/4G/5G WWAN technology, band, and DSI = minimum of "Plimit EFS" and "Maximum tune up output power Pmax" + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

4.3 Power Reduction for SAR

This device utilizes power reduction mechanisms for some wireless modes and bands for SAR compliance under hotspot conditions and under some conditions when the device is being used in close proximity to the user's hand. All hotspot SAR evaluations for this device were performed at the maximum allowed output power when Hotspot is enabled. FCC KDB Publication 616217 D04v01r02 Sec.6 was used as a guideline for selection SAR test distances for device when being used in phablet use conditions.

This device uses an independent fixed level power reduction mechanism for some wireless modes during held-to-ear scenarios. Per FCC Guidance, the held-to-ear exposure conditions were evaluated at reduced power according to the head SAR Positions described in IEEE 1528-2013. Detailed descriptions of the power reduction mechanism are included in the operational description.

Detailed descriptions of the power reduction mechanism are included in the operational description. Please refer to Appendix H for detailed power reduction verification.

The reduced powers for the power reduction mechanisms were conformed via conducted power measurements at the RF Port.

4.4 Nominal and Maximum Output Power Specifications

This device operates using the following maximum output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB publication 447498 D01v06.

4.4.1 PCE Output Power

The maximum output power declared in this section is burst average and not time or frame average.

DSI (0) : FREE

DSI (1) : Reduced-RCV ON

DSI (2) : Reduced-Hotspot Mode ON

DSI (3) : Reduced-Ear Phone

DSI (4) : Reduced-Capacitive Sensor ON

Mode/Band	Antenna	DSI (Device Status indicator)	Voice	Burst Average GMSK				Burst Average EDGE 8-PSK			
			(in dBm)	(in dBm) _{n2}				(in dBm)			
			1 Tx Slot	1 Tx Slot	2 Tx Slot	3 Tx Slot	4 Tx Slot	1 Tx Slot	2 Tx Slot	3 Tx Slot	4 Tx Slot
GSM/GPRS/EDGE 850	Main 1	0,1	32.0	32.0	30.5	28.5	26.5	26.0	24.5	22.5	21.0
		2,3,4	30.0	30.0	28.5	26.5	24.5	26.0	24.5	22.5	21.0
GSM/GPRS/EDGE 1900	Main 2	0,1	30.0	30.0	29.0	26.0	25.0	26.0	24.5	22.0	21.0
		2,3,4	27.5	27.5	25.5	23.5	21.5	25.5	24.0	22.0	21.0

Mode/Band	Antenna	DSI (Device Status indicator)	Modulated Average (dBm)			
			3GPP Rel99	HSDPA	HSUPA	DC-HSDPA
				3GPP Cat.24	3GPP Cat.6	3GPP Cat.24
UMTS B2	Main 2	0,1	23.5	23.0	22.5	23.0
		2,3,4	21.5	20.5	20.5	20.5
UMTS B4	Main 2	0,1	23.5	23.0	23.0	23.0
		2,3,4	21.5	21.0	21.0	21.0
UMTS B5	Main 1	0,1,2,3,4	22.5	22.0	21.5	22.0

Mode / Band	Antenna	Pmax (in dBm)	Plimit (in dBm) Burst Average Power			
			DSI=0	DSI=2	DSI=3, 4	DSI=1
		Max. Modulated Average	Body Worn Max Power	Hotspot	Grip Sensor Ear jack ON	RCV ON
LTE B2	Main 2	24.0	24.0	21.0	21.0	24.0
LTE B2	Sub 1	22.0	22.0	22.0	22.0	19.0
LTE B4	Main 2	24.0	24.0	21.0	21.0	24.0
LTE B4	Sub 1	22.0	22.0	22.0	22.0	19.0
LTE B5	Main 1	24.5	24.5	24.5	24.5	24.5
LTE B7	Main 2	24.0	24.0	21.0	21.0	24.0
LTE B12	Main 1	24.5	24.5	24.5	24.5	24.5
LTE B13	Main 1	24.0	24.0	24.0	24.0	24.0
LTE B14	Main 1	24.5	24.5	24.5	24.5	24.5
LTE B26	Main 1	24.5	24.5	24.5	24.5	24.5
LTE B25	Main 2	24.0	24.0	21.0	21.0	24.0
LTE B25	Sub 1	22.0	22.0	22.0	22.0	19.0
LTE B30	Main 2	23.0	23.0	21.0	21.0	23.0
LTE TDD B38	Main 2	24.0	24.0	24.0	24.0	24.0
LTE TDD B40	Main 2	13.0	13.0	13.0	13.0	13.0
LTE TDD B41(PC2)	Main 2	26.5	26.5	26.5	26.5	26.5
LTE TDD B41(PC3)	Main 2	24.0	24.0	24.0	24.0	24.0
LTE TDD B48	Sub 3	22.5	22.5	22.5	22.5	20.0
LTE B66	Main 2	24.0	24.0	21.0	21.0	24.0
LTE B66	Sub 1	22.0	22.0	22.0	22.0	19
LTE B71	Main 1	24.5	24.5	24.5	24.5	24.5

5G NR SUB 6

Mode / Band	Antenna	Pmax (in dBm)	Plimit (in dBm) Burst Average Power			
			DSI=0	DSI=2	DSI=3, 4	DSI=1
		Max. Modulated Average	Body Worn Max Power	Hotspot	Grip Sensor ON Ear jack ON	RCV ON
NR n2	Main 2	23.5	23.5	21.0	21.0	23.5
NR n5	Main 1	24.0	24.0	24.0	24.0	24.0
NR n12	Main 1	24.0	24.0	24.0	24.0	24.0
NR n25	Main 2	23.5	23.5	21.0	21.0	23.5
NR n30	Main 2	23.5	23.5	21.0	21.0	23.5
NR n41 (PC2).	Main 2	26.0	21.0	21.0	21.0	21.0
NR n41 (PC3)	Main 2	24.5	21.0	21.0	21.0	21.0
NR n66	Main 2	24.0	24.0	21.0	21.0	24.0
NR n71	Main 1	24.0	24.0	24.0	24.0	24.0
NR n77 SRS0(PC2)	Sub 3	27.0	17.5	17.5	17.5	17.5
NR n77 SRS0(PC3)	Sub 3	24.5	17.5	17.5	17.5	17.5
NR n77 SRS1(PC2)	Sub 5	22.3	15.0	15.0	15.0	15.0
NR n77 SRS1(PC3)	Sub 5	22.6	15.0	15.0	15.0	15.0
NR n77 SRS2(PC2)	Main 2	25.0	16.0	16.0	16.0	16.0
NR n77 SRS2(PC3)	Main 2	23.5	16.0	16.0	16.0	16.0
NR n77 SRS3(PC2)	Main 3	22.6	17.5	17.5	17.5	17.5
NR n77 SRS3(PC3)	Main 3	23.0	17.5	17.5	17.5	17.5
NR DoD n77 SRS0(PC2)	Sub 3	27.0	17.5	17.5	17.5	17.5
NR DoD n77 SRS0(PC3)	Sub 3	24.5	17.5	17.5	17.5	17.5
NR DoD n77 SRS1(PC2)	Sub 5	22.6	15.0	15.0	15.0	15.0
NR DoD n77 SRS1(PC3)	Sub 5	22.6	15.0	15.0	15.0	15.0
NR DoD n77 SRS2(PC2)	Main 2	25.0	16.0	16.0	16.0	16.0
NR DoD n77 SRS2(PC3)	Main 2	23.5	16.0	16.0	16.0	16.0
NR Do n77 SRS3(PC2)	Main 3	23.0	17.5	17.5	17.5	17.5
NR Do n77 SRS3(PC3)	Main 3	23.0	17.5	17.5	17.5	17.5

In order to satisfy the limitations of the duty factor of the 5G NR TDD band, these were tested as n41 and n77 band 17.5 dBm to which duty factor 100% were applied to all SAR test configurations (Head/Bodyworn/Hotspot/Phablet SAR) in FTM mode.

4.4.2 Maximum 2.4 GHz, 5 GHz WIFI output power

Mode	SISO(ANT 1)						SISO(ANT 2)						MIMO					
	a	b	g	n	ac	ax (SU)	a	b	g	n	ac	ax (SU)	a	b	g	n	ac	ax (SU)
2.4GHz								15 Ch6:16	16 Ch11:15	16 Ch11:15		16 Ch11:14		18 Ch6:19	19 Ch11:18	19 Ch11:18		19 Ch11:17
5GHZ (20 MHz)	16 Ch40,48 :15 ch36,64,16 5 :10 Ch100:13												19 Ch40,48 :18 ch36,64,16 5 :13 Ch100:16			19 Ch40,48 :18 ch36,64,16 5 :13 Ch100:16	18 ch36,64,16 5 :13 Ch100:16	17 ch36 : 13.5 ch40,48 : 17.5 ch64,165 : 13 Ch100:14
5GHZ (40 MHz)																17 ch38 :13 Ch62 :13 Ch102 :16 Ch159 :13	17 ch38 :13 Ch62 :13 Ch102 :16 Ch159 :13	17 ch38 :13.5 ch46 : 17.5 Ch62,159 : 13 Ch102 :14
5GHZ (80 MHz)																	15 Ch42 :13 Ch58 :13 Ch106:14 Ch155 :13	15 Ch42 :13.5 Ch58,106,155 :13
5GHZ (160 MHz)																	14.5 Ch50 : 2	14.5 Ch50 : 2.5
6-7GHz (20 MHz)	4																	7 Ch93,185 : 6.5
6-7GHz (40 MHz)																		7.5
6-7GHz (80 MHz)																		7.5
6-7GHz (160 MHz)																		7.5

(Upper tolerance: target ~~+1.0dB~~)

4.4.3 Reduced 2.4 GHz, 5 GHz WIFI output power - receiver Active

Mode	SISO(ANT 1)						SISO(ANT 2)						MIMO					
	a	b	g	n	ac	ax (SU)	a	b	g	n	ac	ax (SU)	a	b	g	n	ac	ax (SU)
2.4GHz								12	12	12		12		15	15	15		15
5GHZ (20 MHz)	10												13			13	13	13
5GHZ (40 MHz)																13	13	13
5GHZ (80 MHz)																	13	13
5GHZ (160 MHz)																	12.5 Ch50 : 2	12.5 Ch50 : 2

(Upper tolerance: target ~~+1.0dB~~)

4.4.4 Reduced 2.4 GHz WIFI output power - mobile hotspot

Mode	SISO(ANT 1)						SISO(ANT 2)						MIMO					
	a	b	g	n	ac	ax (SU)	a	b	g	n	ac	ax (SU)	a	b	g	n	ac	ax (SU)
2.4GHz								10	10	10		10		13	13	13		13

(Upper tolerance: target +1.0dB)

4.4.5 802.11ax RU Tx power Tables

Tones	MIMO (ANT1+2) /in dBm				
	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	5G/160Mhz
	Ch & RU index	Ch & RU index	Ch & RU index	Ch & RU index	Ch & RU index
26T	15 Ch1 : 14	13 ch36~48 : 10 ch100 : 14	13 ch38~46 : 10 ch102 : 14	13 Ch42 : 10.5	12.5 Ch50 : 2.5
52T	15 Ch1 : 14	14 ch36~48 : 13 ch64,165:13 ch100 : 14.5	14 ch38~46 : 13.5 ch62,159:13 Ch102:15	14 Ch42 : 13.5 Ch58,106,155 : 13	13.5 Ch50 : 2.5
106T	15 Ch1 : 14	14 ch36 : 13.5 ch40,48 : 14.5 ch64,165:13 ch100 : 14.5	14 ch38 : 13.5 ch46 : 14.5 ch62,159:13 Ch102:15	14 Ch42 : 13.5 Ch58,106,155 : 13	13.5 Ch50 : 2.5
242T	19 Ch1,10,11 : 14 Ch2,9 : 15 Ch3,8 : 16	17 ch36 : 13.5 ch40,48 : 17.5 ch64,165:13 Ch100:14	17 ch38 : 13.5 ch46 : 17.5 ch62,159:13 Ch102:14	17 Ch42 : 13.5 Ch58,106,155 : 13	13.5 Ch50 : 2.5
484T			17 ch38 : 13.5 ch46 : 17.5 Ch62,159 : 13 Ch102 : 14	17 Ch42 : 13.5 Ch58,106,155 : 13	13.5 Ch50 : 2.5
996T				15 Ch42 : 13.5 Ch58,106,155 : 13	14.5 Ch50 : 2.5

Tones	MIMO (ANT1+2) /in dBm			
	6G /20Mhz	6G /40Mhz	6G /80Mhz	6G /160Mhz
	Ch & RU index	Ch & RU index	Ch & RU index	Ch & RU index
26T	-2.5 Ch 93,185 : -4	-2.5	-2 Ch 183 : -3	-2 Ch 143 : -3
52T	-0.5 Ch 93,185 : -1.5	-0.5	-0.5 Ch215 : 0	-0.5 Ch 79 : 0
106T	3 Ch 93,185 : 1.5	3.5 Ch 179 : 2.5 Ch 187 : 2.5	3.5 Ch 183 : 2.5 Ch 215 : 4	3.5 Ch 143,175 : 3
242T	6.5 Ch 93,185 : 5.5	6.5 Ch 179,187 : 5.5	6.5 Ch 183 : 5.5	6.5 Ch 143,175 : 6 Ch 207 : 7
484T		7.5 Ch 179,187 : 6.5	7.5 Ch 183 : 6.5	7.5 Ch 143,175 : 6.5
996T			7.5 Ch 183 : 6.5	7.5 Ch 143,175 : 6.5 Ch 207 : 7

4.4.6 802.11ax RU Tx power Tables – receiver Active

Tones	MIMO (ANT1+2) /in dBm				
	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	5G/160Mhz
	Ch & RU index	Ch & RU index	Ch & RU index	Ch & RU index	Ch & RU index
26T	15 Ch1 : 14	13 ch36~48 : 10	13 ch38~46 : 7	13 Ch42 : 10	12.5 Ch50 : 2
52T	15 Ch1 : 14	13	13	13	12.5 Ch50 : 2
106T	15 Ch1 : 14	13	13	13	12.5 Ch50 : 2
242T	15 Ch1 : 14	13	13	13	12.5 Ch50 : 2
484T			13	13	12.5 Ch50 : 2
996T				13	12.5 Ch50 : 2

4.4.7 Maximum Bluetooth Power

Mode / Band			Modulated Average (dBm)
BR	0ch	Maximum	14.5
		Nominal	13.5
	39ch	Maximum	14.5
		Nominal	13.5
	78ch	Maximum	14.5
		Nominal	13.5
EDR	0ch	Maximum	13.5
		Nominal	12.5
	39ch	Maximum	13.5
		Nominal	12.5
	78ch	Maximum	13.5
		Nominal	12.5
LE		Maximum	9.0
		Nominal	8.0

4.5 LTE Information

Item.	Description
Frequency Range	LTE Band 2 (PCS) 1 850.7 MHz ~ 1 909.3 MHz
	LTE Band 4 (AWS) 1 710.7 MHz ~ 1 754.3 MHz
	LTE Band 5 (Cell) 824.7 MHz ~ 848.3 MHz
	LTE Band 7 2 502.5 MHz ~ 2 567.5 MHz
	LTE Band 12 699.7 MHz ~ 715.3 MHz
	LTE Band 13 779.5 MHz ~ 784.5 MHz
	LTE Band 14 790.5 MHz ~ 795.5 MHz
	LTE Band 25(PCS) 1 850.7 MHz ~ 1 914.3 MHz
	LTE Band 26 (Cell) 814.7 MHz ~ 848.3 MHz
	LTE Band 30 2 307.5 MHz ~ 2 312.5 MHz
	LTE TDD Band 38 2 572.5 MHz ~ 2 617.5 MHz
	LTE TDD Band 40 2 302.5 MHz ~ 2 397.5 MHz
	LTE TDD Band 41 2 498.5 MHz ~ 2 687.5 MHz
	LTE TDD Band 48 3 552.5 MHz ~ 3 697.5 MHz
	LTE Band 66 (AWS) 1 710.7 MHz ~ 1 779.3 MHz
	LTE Band 71 665.5 MHz ~ 695.5 MHz
	NR Band n2 (PCS) 1 852.5 MHz ~ 1 907.5 MHz
	NR Band n5 (Cell) 826.5 MHz ~ 846.5 MHz
	NR Band n12 701.5 MHz ~ 713.5 MHz
	NR Band n25 1 852.5 MHz ~ 1 912.5 MHz
	NR Band n30 2 307.5 MHz ~ 2 312.5 MHz
	NR Band n41 2 506.02 MHz ~ 2 679.99 MHz
	NR Band n66 (AWS) 1 712.5 MHz ~ 1 777.5 MHz
	NR Band n71 665.5 MHz ~ 695.5 MHz
	NR Band n77 3 705 MHz ~ 3 975 MHz
	NR Band n77 (DoD) 3 455.04 MHz ~ 3 544.98 MHz
Channel Bandwidths	LTE Band 2 (PCS) 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE Band 4 (AWS) 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE Band 5 (Cell) 1.4 MHz, 3 MHz, 5 MHz, 10 MHz
	LTE Band 7 5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE Band 12 1.4 MHz, 3 MHz, 5 MHz, 10 MHz
	LTE Band 13 5 MHz, 10 MHz
	LTE Band 14 5 MHz, 10 MHz
	LTE Band 25 (PCS) 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE Band 26 (Cell) 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz
	LTE Band 30 5 MHz, 10 MHz
	LTE TDD Band 38 5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE TDD Band 40 5 MHz, 10 MHz
	LTE TDD Band 41 5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE TDD Band 48 5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE Band 66 (AWS) 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE Band 71 5 MHz, 10 MHz, 15 MHz, 20 MHz
	NR Band n2 (PCS) 5 MHz, 10 MHz, 15 MHz, 20 MHz
	NR Band n5 (Cell) 5 MHz, 10 MHz, 15 MHz, 20 MHz
	NR Band n12 5 MHz, 10 MHz, 15 MHz
	NR Band n25 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz
	NR Band n30 5 MHz, 10 MHz
	NR Band n41 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz
	NR Band n66(AWS) 5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz
	NR Band n71 5 MHz, 10 MHz, 15 MHz, 20 MHz
	NR Band n77 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz
	NR Band n77 (DoD) 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz

Ch. No.& Freq.(MHz)		Low	Mid	High
LTE Band 2 (PCS)	1.4 MHz	1 850.7 (18607)	1 880.0 (18900)	1 909.3 (19193)
	3 MHz	1 851.5 (18615)	1 880.0 (18900)	1 908.5 (19185)
	5 MHz	1 852.5 (18625)	1 880.0 (18900)	1 907.5 (19175)
	10 MHz	1 855.0 (18650)	1 880.0 (18900)	1 905.0 (19150)
	15 MHz	1 857.5 (18675)	1 880.0 (18900)	1 902.5 (19125)
	20 MHz	1 860.0 (18700)	1 880.0 (18900)	1 900.0 (19100)
LTE Band 4 (AWS)	1.4 MHz	1 710.7 (19957)	1 732.5 (20175)	1 754.3 (20393)
	3 MHz	1 711.5 (19965)	1 732.5 (20175)	1 753.5 (20385)
	5 MHz	1 712.5 (19975)	1 732.5 (20175)	1 752.5 (20375)
	10 MHz	1 715.0 (20000)	1 732.5 (20175)	1 750.0 (20350)
	15 MHz	1 717.5 (20025)	1 732.5 (20175)	1 747.5 (20325)
	20 MHz	1 720.0 (20050)	1 732.5 (20175)	1 745.0 (20300)
LTE Band 5 (Cell)	1.4 MHz	824.7 (20407)	836.5 (20525)	848.3 (20643)
	3 MHz	825.5 (20415)	836.5 (20525)	847.5 (20635)
	5 MHz	826.5 (20425)	836.5 (20525)	846.5 (20625)
	10 MHz	829.0 (20450)	836.5 (20525)	844.0 (20600)
LTE Band 7	5 MHz	2502.5 (20775)	2535 (21100)	2567.5 (21425)
	10 MHz	2505 (20800)	2535 (21100)	2565 (21400)
	15 MHz	2507.5 (20825)	2535 (21100)	2562.5 (21375)
	20 MHz	2510 (20850)	2535 (21100)	2560 (21350)
LTE Band 12	1.4 MHz	699.7 (23017)	707.5 (23095)	715.3 (23173)
	3 MHz	700.5 (23025)	707.5 (23095)	714.5 (23165)
	5 MHz	701.5 (23035)	707.5 (23095)	713.5 (23155)
	10 MHz	704.0 (23060)	707.5 (23095)	711.0 (23130)
LTE Band 13	5 MHz	779.5 (23205)	782 (23230)	784.5 (23255)
	10 MHz		782 (23230)	
LTE Band 14	5 MHz	790.5 (23305)	793 (23330)	795.5 (23355)
	10 MHz		793 (23330)	
LTE Band 25(PCS)	1.4 MHz	1 850.7 (26047)	1 882.5 (26365)	1 914.3 (26683)
	3 MHz	1 851.5 (26055)	1 882.5 (26365)	1 913.5 (26675)
	5 MHz	1 852.5 (26065)	1 882.5 (26365)	1 912.5 (26665)
	10 MHz	1 855 (26090)	1 882.5 (26365)	1 910 (26640)
	15 MHz	1 857.5 (26115)	1 882.5 (26365)	1 907.5 (26615)
	20 MHz	1 860 (26140)	1 882.5 (26365)	1 905 (26590)
LTE Band 26 (Cell)	1.4 MHz	814.7 (26697)	831.5 (26865)	848.3 (27033)
	3 MHz	815.5 (26705)	831.5 (26865)	847.5 (27025)
	5 MHz	816.5 (26715)	831.5 (26865)	846.5 (27015)
	10 MHz	819.0 (26740)	831.5 (26865)	844.0 (26990)
	15 MHz	821.5 (26765)	831.5 (26865)	841.5 (26965)
LTE Band 30	5 MHz	2 307.5 (27685)	2 310 (27710)	2 312.5 (27735)
	10 MHz		2 310 (27710)	
LTE TDD Band 38	5 MHz	2572.5 (37775)	2 595 (38000)	2617.5 (38225)
	10 MHz	2575 (37800)	2 595 (38000)	2615 (38200)
	15 MHz	2577.5 (37825)	2 595 (38000)	2612.5 (38175)
	20 MHz	2580 (37850)	2 595 (38000)	2610 (38150)
LTE TDD Band 40	5 MHz	2 302.5 (38675)	2 350 (39150)	2 397.5 (39625)
	10 MHz	2 305 (38700)	2 350 (39150)	2 395 (39600)

Ch. No.& Freq.(MHz)		Low		Mid		High	
LTE Band 66 (AWS)	1.4 MHz	1 710.7 (131979)		1 745 (132322)		1 779.3 (132665)	
	3 MHz	1 711.5 (131987)		1 745 (132322)		1 778.5 (132657)	
	5 MHz	1 712.5 (131997)		1 745 (132322)		1 777.5 (132647)	
	10 MHz	1 715.0 (132022)		1 745 (132322)		1 775.0 (132622)	
	15 MHz	1 717.5 (132047)		1 745 (132322)		1 772.5 (132597)	
	20 MHz	1 720.0 (132072)		1 745 (132322)		1 770.0 (132572)	
LTE Band 71	5 MHz	665.5 (133147)		680.5 (133297)		695.5 (133447)	
	10 MHz	668 (133172)		680.5 (133297)		693 (133422)	
	15 MHz	670.5 (133197)		680.5 (133297)		690.5 (133397)	
	20 MHz	673 (133222)		680.5 (133297)		688 (133372)	
LTE TDD Band 41	5 MHz	2 506.0(39750)	2 549.5(40185)	2 593.0(40620)	2 636.5(41055)	2 680.0(41490)	
	10 MHz	2 506.0(39750)	2 549.5(40185)	2 593.0(40620)	2 636.5(41055)	2 680.0(41490)	
	15 MHz	2 506.0(39750)	2 549.5(40185)	2 593.0(40620)	2 636.5(41055)	2 680.0(41490)	
	20 MHz	2 506.0(39750)	2 549.5(40185)	2 593.0(40620)	2 636.5(41055)	2 680.0(41490)	
LTE TDD Band 48	5 MHz	3 552.5 (55265)	3 600.8 (55748)	3 649.2 (56232)	3 697.5 (56715)		
	10 MHz	3 555 (55290)	3 601.7 (55757)	3 648.3 (56223)	3 695 (56690)		
	15 MHz	3 557.5 (55315)	3 602.5 (55765)	3 647.5 (56215)	3 692.5 (56665)		
	20 MHz	3 560 (55340)	3 603.3 (55773)	3 646.7 (56207)	3 690 (56640)		
UE Category		LTE Rel. 15, DL: Category 18, UL: Category 18					
HPUE Power Class		LTE TDD 41 Power Class 3 :(Duty: 63.3%) Power Class 2 : (Duty:43.3%)					
Modulations Supported in UL		QPSK, 16QAM, 64QAM, 256 QAM					
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3		Yes					
A-MPR disabled for SAR Testing.		Yes					
LTE Carrier Aggregation		This device supports Inter-band & Intra-band DL-link Carrier aggregations and intra-band UL-link Carrier aggregations. Detaled information of Down-Link CA are included in the Appendix.I and Technical Description document.					
LTE Release information		This device does not support full CA features on 3GPP Release 15. It supports carrier aggregation, downlink MIMO. All other uplink communications are identical to the release 8 specifications. The following LTE Release 15 Features are not supported: Relay, Hetnet, Enhanced eICI, MDH, cross-carrier Scheduling, Enhanced SC-FDMA.					

Ch. No.& Freq.(MHz)		Low / Low-Mid		Mid		Mid-High / High	
NR Band n2 (PCS)	5 MHz	1852.5 (370500)		1880 (376000)		1907.5 (381500)	
	10 MHz	1855 (371000)		1880 (376000)		1905 (381000)	
	15 MHz	1857.5 (371500)		1880 (376000)		1902.5 (380500)	
	20 MHz	1860 (372000)		1880 (376000)		1900 (380000)	
NR Band n5 (Cell)	5 MHz	826.5 (165300)		836.5 (167300)		846.5 (169300)	
	10 MHz	829 (165800)		836.5 (167300)		844 (168800)	
	15 MHz	831.5 (166300)		836.5 (167300)		841.5 (168300)	
	20 MHz	834 (166800)		836.5 (167300)		839 (167800)	
NR Band n12	5 MHz	701.5 (140300)		707.5 (141500)		713.5 (142700)	
	10 MHz			707.5 (141500)			
	15 MHz			707.5 (141500)			
NR Band n25	5 MHz	1852.5 (370500)		1882.5 (376500)		1912.5 (382500)	
	10 MHz	1855 (371000)		1882.5 (376500)		1910 (382000)	
	15 MHz	1857.5 (371500)		1882.5 (376500)		1907.5 (381500)	
	20 MHz	1860 (372000)		1882.5 (376500)		1905 (381000)	
	25 MHz	1862.5(372500)				1902.5(380500)	
	30 MHz	1865(373000)				1900(380000)	
	40 MHz			1882.5(376500)			
NR Band n30	5 MHz			2310 (462000)			
	10 MHz			2310 (462000)			
NR Band n71	5 MHz	665.5 (133100)		680.5 (136100)		695.5 (139100)	
	10 MHz	668 (133600)		680.5 (136100)		693 (138600)	
	15 MHz			680.5 (136100)			
	20 MHz			680.5 (136100)			
NR Band n66(AWS)	5 MHz	1712.5 (342500)		1745 (349000)		1777.5 (355500)	
	10 MHz	1715 (343000)		1745 (349000)		1775 (355000)	
	15 MHz	1717.5 (343500)		1745 (349000)		1772.5 (354500)	
	20 MHz	1720 (344000)		1745 (349000)		1770 (354000)	
	30 MHz			1745(349000)			
	40 MHz			1745(349000)			
NR Band n41	20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)	2636.49 (527298)	2679.99 (535998)	
	30 MHz	2511 (502200)	2552.01 (510402)	2592.99 (518598)	2634 (526800)	2674.98 (534996)	
	40 MHz	2516.01 (503202)	2567.34 (513468)		2618.67 (523734)	2670 (534000)	
	50 MHz	2521.02 (504204)		2592.99 (518598)		2664.99 (532998)	
	60 MHz	2526 (505200)		2592.99 (518598)		2659.98 (531996)	
	70 MHz	2531.04 (506208)				2654.9 (530994)	
	80 MHz	2536.02 (507204)				2649.99 (529998)	
	90 MHz	2541 (508200)				2644.98 (528996)	
	100 MHz			2592.99 (518598)			

Ch. No.& Freq.(MHz)		Low / Low-Mid		Mid		Mid-High / High	
NR Band n77 (PC3)	20 MHz	3710.01(647334)	3762 (650800)	3813.99(654266)	3866.01 (657734)	3918 (661200)	3969.99 (664666)
	30 MHz	3715.02(647668)	3765 (651000)	3815.01(654334)	3864.99 (657666)	3915 (661000)	3964.98 (664232)
	40 MHz	3720 (648000)	3768 (651200)	3816 (654400)	3864 (657600)	3912 (660800)	3960 (664000)
	50 MHz	3725.01(648334)	3782.49 (652166)	3840 (656000)		3897.51 (659834)	3954.99 (663666)
	60 MHz	3730.02(648668)	3803.34(653556)			3876.66(658444)	3949.98 (663332)
	70 MHz	3735 (649000)	3804.99(654336)			3875.01(658334)	3945(663000)
	80 MHz	3740.01(649334)		3840 (656000)		3939.99 (662666)	
	90 MHz	3745.02(649668)		3840 (656000)		3934.98 (662332)	
	100 MHz	3750 (650000)		3840 (656000)		3930 (662000)	
NR Band n77 (PC2)	20 MHz	3710.01(647334)	3762 (650800)	3813.99(654266)	3866.01 (657734)	3918 (661200)	3969.99 (664666)
	30 MHz	3715.02(647668)	3765 (651000)	3815.01(654334)	3864.99 (657666)	3915 (661000)	3964.98 (664232)
	40 MHz	3720 (648000)	3768 (651200)	3816 (654400)	3864 (657600)	3912 (660800)	3960 (664000)
	60 MHz	3730.02(648668)	3803.34(653556)			3876.66(658444)	3949.98 (663332)
	80 MHz	3740.01(649334)		3840 (656000)		3939.99 (662666)	
	100 MHz	3750 (650000)		3840 (656000)		3930 (662000)	
NR Band n77 (DoD)	20 MHz	3460.02(630668)		3500.01(633334)		3540(636000)	
	30 MHz	3465(631000)		3500.01(633334)		3534.99(635666)	
	40 MHz	3470.01(631334)				3529.98(635332)	
	60 MHz			3500.01(633334)			
	80 MHz			3500.01(633334)			
	100 MHz			3500.01(633334)			
Item.			Description				
NR Band n2/n5/n12/n25/n30/n66/n71 SCS			15 kHz				
NR Band n41/n77 SCS			30 kHz				
A-MPR disabled for SAR Testing.			Yes				
5G NR UL/DL FR1			CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM DFT-s-OFDM: $\pi/2$ -BPSK(UL Only), QPSK, 16QAM, 64QAM, 256QAM				
Non-Standalone & Standalone are supported. 5G NR N41[PC2] and N77 [PC2] are only supported to SA connectivity More detailed specifications of the 5G NR bands are contained in the Technical description document.							

4.6 DUT Antenna Locations

The overall dimensions of this device are > 9 X 5 cm. A diagram showing device antenna can be found in SAR_setup_photos. Since the diagonal dimension of this device is > 160 mm and < 200 mm, it is considered a “phablet”.

This model allows users to exchange data or media files with other Bluetooth enabled devices using Bluetooth, which means they can connect to other Bluetooth enabled devices via Bluetooth tethering. Therefore, SAR test was performed for additional simultaneous transmissions.

Head and Bluetooth Tethering SAR were evaluated for BT BR tethering applications.

Mode	Antenna	Rear	Front	Left	Right	Bottom	Top
GSM/GPRS/EDGE 850	Main #1	Yes	Yes	Yes	Yes	Yes	No
GSM/GPRS/EDGE 1900	Main #2	Yes	Yes	Yes	No	Yes	No
UMTS Band 5	Main #1	Yes	Yes	Yes	Yes	Yes	No
UMTS Band 4	Main #2	Yes	Yes	Yes	No	Yes	No
UMTS Band 2	Main #2	Yes	Yes	Yes	No	Yes	No
LTE Band 2 (PCS)	Main #2	Yes	Yes	Yes	No	Yes	No
LTE Band 2 (PCS)	Sub#1	Yes	Yes	Yes	No	No	Yes
LTE Band 4 (AWS)	Main #2	Yes	Yes	Yes	No	Yes	No
LTE Band 4 (AWS)	Sub#1	Yes	Yes	Yes	No	No	Yes
LTE Band 5 (Cell)	Main #1	Yes	Yes	Yes	Yes	Yes	No
LTE Band 7	Main #2	Yes	Yes	Yes	No	Yes	No
LTE Band 12	Main #1	Yes	Yes	Yes	Yes	Yes	No
LTE Band 13	Main #1	Yes	Yes	Yes	Yes	Yes	No
LTE Band 14	Main #1	Yes	Yes	Yes	Yes	Yes	No
LTE Band 25 (PCS)	Main #2	Yes	Yes	Yes	No	Yes	No
LTE Band 25 (PCS)	Sub#1	Yes	Yes	Yes	No	No	Yes
LTE Band 26 (Cell)	Main #1	Yes	Yes	Yes	Yes	Yes	No
LTE Band 30	Main #2	Yes	Yes	Yes	No	Yes	No
LTE TDD Band 38	Main #2	Yes	Yes	Yes	No	Yes	No
LTE TDD Band 40	Main #2	Yes	Yes	Yes	No	Yes	No
LTE TDD Band 41	Main #2	Yes	Yes	Yes	No	Yes	No
LTE TDD Band 48	Sub #3	Yes	Yes	Yes	No	No	Yes
LTE Band 66 (AWS)	Main #2	Yes	Yes	Yes	No	Yes	No
LTE Band 66 (AWS)	Sub#1	Yes	Yes	Yes	No	No	Yes
LTE Band 71	Main #1	Yes	Yes	Yes	Yes	Yes	No
NR Band n2	Main #2	Yes	Yes	Yes	No	Yes	No
NR Band n5	Main #1	Yes	Yes	Yes	Yes	Yes	No
NR Band n12	Main #1	Yes	Yes	Yes	Yes	Yes	No
NR Band n25	Main #2	Yes	Yes	Yes	No	Yes	No
NR Band n30	Main #2	Yes	Yes	Yes	No	Yes	No
NR Band n41	Main #2	Yes	Yes	Yes	No	Yes	No
NR Band n66	Main #2	Yes	Yes	Yes	No	Yes	No
NR Band n71	Main #1	Yes	Yes	Yes	Yes	Yes	No
NR Band n77	Sub #3	Yes	Yes	Yes	No	No	Yes
NR Band n77 SRS1	Sub #5	Yes	Yes	No	Yes	No	Yes
NR Band n77 SRS2	Main #2	Yes	Yes	Yes	Yes	Yes	No
NR Band n77 SRS3	Main 3	Yes	Yes	Yes	Yes	Yes	No
2.4 GHz WLAN 1.5 GHz/ 6 GHz WLAN 2	Sub #2	Yes	Yes	Yes	No	No	Yes
5 GHz/ 6 GHz WLAN 1	Sub #3	Yes	Yes	Yes	No	No	Yes
2.4 GHz WLAN 2	Sub #4	Yes	Yes	Yes	No	No	Yes
Bluetooth	Sub #2	Yes	Yes	Yes	No	No	Yes

Particular EUT edges were not required to be evaluated for Bluetooth Tethering and Hotspot SAR if the edges were > 25 mm from the transmitting antenna according to FCC KDB 941225 D06v02r01 on page 2.

The distance between the transmit antennas and the edges of the device are included in the filing.

- Note: All test configurations are based on front view position.

4.7 Near Field Communications (NFC) Antenna

This EUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in SAR _ Setup_ photos.

4.8 SAR Summation Scenario

According to FCC KDB 447498 D01v06, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds. Possible transmission paths for the EUT are shown below paths and are mode in same rectangle to indicate communication modes which share the same path. Modes which share the same transmission path cannot transmit simultaneously with one another.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB 447498 D01v06

Capable Transmit Configuration	Head	Body-Worn	Wireless	Phablet
		Accessory	Router	
GSM voice + 2.4GHz Bluetooth	Yes^	Yes	N/A	Yes^
GSM voice + 2.4GHz WI-FI MIMO	Yes	Yes	N/A	Yes
GSM voice + 5GHz WI-FI MIMO	Yes	Yes	N/A	Yes
GSM voice + 6GHz WI-FI MIMO	Yes	Yes	N/A	Yes
GSM voice + 2.4GHz Bluetooth * 2.4GHz WI-FI Ant 2	Yes	Yes	N/A	Yes
GSM voice + 2.4GHz Bluetooth + 5GHz WI-FI MIMO	Yes^	Yes	N/A	Yes^
GSM voice + 2.4GHz Bluetooth + 6GHz WI-FI MIMO	Yes^	Yes	N/A	Yes^
UMTS + 2.4GHz Bluetooth	Yes^	Yes	Yes^	Yes^
UMTS + 2.4GHz WI-FI MIMO	Yes	Yes	Yes	Yes
UMTS + 5GHz WI-FI MIMO	Yes	Yes	Yes	Yes
UMTS + 6GHz WI-FI MIMO	Yes	Yes	N/A	Yes
UMTS + 2.4GHz Bluetooth + 5GHz WI-FI MIMO	Yes^	Yes	Yes^	Yes^
UMTS + 2.4GHz Bluetooth + 6GHz WI-FI MIMO	Yes^	Yes	N/A	Yes^
UMTS + 2.4GHz Bluetooth * 2.4GHz WI-FI Ant 2	Yes^	Yes	Yes^	Yes^
LTE + 5G NR	Yes	Yes	N/A	Yes
LTE + 2.4GHz Bluetooth	Yes^	Yes	Yes^	Yes^
LTE + 2.4GHz Bluetooth + 5G NR	Yes^	Yes	Yes^	Yes^
LTE + 2.4GHz WI-FI MIMO	Yes	Yes	Yes	Yes
LTE + 2.4GHz WI-FI MIMO + 5G NR	Yes*	Yes	Yes	Yes
LTE + 5GHz WI-FI MIMO	Yes	Yes	Yes	Yes
LTE + 5GHz WI-FI MIMO + 5G NR	Yes*	Yes	Yes	Yes
LTE + 6GHz WI-FI MIMO	Yes	Yes	N/A	Yes
LTE + 6GHz WI-FI MIMO + 5G NR	Yes*	Yes	N/A	Yes
LTE + 2.4GHz Bluetooth + 5GHz WI-FI MIMO	Yes^*	Yes	Yes^	Yes^
LTE + 2.4GHz Bluetooth + 5GHz WI-FI MIMO + 5G NR	Yes^*	Yes	Yes^	Yes^
LTE + 2.4GHz Bluetooth + 6GHz WI-FI MIMO	Yes^*	Yes	N/A	Yes^
LTE + 2.4GHz Bluetooth + 6GHz WI-FI MIMO + 5G NR	Yes^*	Yes	N/A	Yes^
LTE + 2.4GHz WI-FI Ant 2+ 2.4GHz Bluetooth	Yes^*	Yes	Yes^	Yes^
LTE + 2.4GHz WI-FI Ant 2+ 2.4GHz Bluetooth + 5G NR	Yes^*	Yes	Yes^	Yes^
GPRS/EDGE Data + 2.4GHz Bluetooth	Yes*^	Yes*	Yes^	Yes*^
GPRS/EDGE Data + 2.4GHz WI-FI MIMO	Yes*	Yes*	Yes	Yes*
GPRS/EDGE Data + 5GHz WI-FI MIMO	Yes*	Yes*	Yes	Yes*
GPRS/EDGE Data + 6GHz WI-FI MIMO	Yes*	Yes*	N/A	Yes*
GPRS/EDGE Data + 2.4GHz Bluetooth+ 5GHz WI-FI MIMO	Yes*^	Yes*	Yes^	Yes*^
GPRS/EDGE Data + 2.4GHz Bluetooth+ 6GHz WI-FI MIMO	Yes*^	Yes*	N/A	Yes*^
GPRS/EDGE Data + 2.4GHz WI-FI Ant 2+ 2.4GHz Bluetooth	Yes*^	Yes*	Yes^	Yes*^

Note:

1. The device does not support licensed bands simultaneously transmitting.
2. UMTS +WLAN scenario also represents the UMTS Voice/DATA + WLAN hotspot scenario.
3. VoIP is supported in GPRS/EDGE.
4. The highest reported SAR for each exposure condition is used for SAR summation purpose.
5. Wi-Fi Hotspot is supported for 2.4 GHz/ UNII-3 of 5 GHz WLAN.
6. 2.4 GHz ,5 GHz WLAN and 6 GHz WLAN cannot transmit simultaneously.
6. This device supports Bluetooth tethering. ^ BluetoothTetheringis considered.
7. * Pre-installed VOIP applications areconsidered
8. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held to ear or Body worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI Direct beyond that listed in the above table.
9. WLAN 6 GHz Wireless Router is not supported, therefore it was not evaluated for wireless router conditions.
10. This device supports 2x2 MIMO Tx for WLAN 802.11a/b/g/n/ac/ax. 802.11a/b/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. 5 GHz/6GHz WLAN can transmit only when operating with MIMO
- 11.This device supports VOLTE.
12. This device supports VOWIFI

4.9 SAR Test Considerations

4.9.1 WiFi

Since wireless router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A & U-NII-2C WiFi, WiFi Hotspot SAR test and combinations are considered only 2.4 GHz and U-NII-3 for SAR with respected to wireless router configurations according to FCC KDB 941225 D06v02r01.

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg for 1g SAR and is less than 3.0 W/kg for 10g SAR, SAR is not required for U-NII-1 band according to FCC KDB 248227D01v02r02.

This device supports IEEE 802.11ac with the following features:

- a) Up to 160 MHz Bandwidth only for 5/6 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) 2 Tx antenna output
- d) Up to 1024 QAM is supported
- e) TDWR and Band gap channels are supported for 5 GHz
- f) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is greater than 160mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for U-NII-1, U-NII-2A & U-NII-2C WLAN, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WIFI, 2.4 GHz Bluetooth, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

Per April 2019 TCB Workshop Notes, SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.

This device supports 6 GHz WIFI Operations. RF Exposure assessment for these bands can be found in the WIFI6E RF Exposure Report. Simultaneous transmission analysis is addressed in Sec.14 of this report.

4.9.2 Licensed Transmitter(s)

GSM/GPRS/EDGE DTM is not supported for US bands. Therefore, the GSM Voice modes in this report do not transmit simultaneously with GPRS/EDGE Data.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r05.

Per FCC KDB 648474 D04v01r03, this device is considered a "Phablet" since the diagonal dimension is greater than 160 mm and less than 200 mm. Therefore, extremity SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR >1.2 W/kg. When hotspot mode applies, 10g SAR required only for the surfaces and edges with hotspot mode scaled to the maximum output power (including tolerance) is 1g SAR > 1.2 W/kg.

This Device supports 64QAM and 256QAM on the uplink and 256QAM on the downlink for LTE Operations. Conducted powers for 64QAM and 256QAM uplink configurations were measured per section 5.1 of FCC KDB 941225 D05v02r05. SAR was not required for 64QAM or 256QAM since the highest maximum output power for 64QAM and 256QAM is ≤ 0.5 dB higher than the same configuration in QPSK and the reported SAR for QPSK configuration is ≤ 1.45 W/kg, per section 5.2.4 for FCC KDB 941225 D05v02r05.

This device supports 5G NR/LTE capabilities with overlapping transmission frequency ranges. When the supported frequency range of LTE Band falls completely within an 5G NR/LTE Band with a larger transmission frequency range, both 5G NR/LTE bands have the same target power or the band with the larger transmission frequency range has a higher target power and both 5G NR/LTE bands share the same transmission path and signal characteristics, SAR was only tested for the band with the larger transmission frequency range.

LTE capabilities with overlapping transmission frequency ranges were applied to LTE B26 and LTE B5, LTE B25 and LTE B2, LTE B66 and LTE B4, and LTE B38 and LTE B41 of this model.

5G NR capabilities with overlapping transmission frequency ranges were applied to n2 and n25 of this model.

This device support both Power class 2 (PC2) and Power Class 3 (PC3) for LTE B41. Per May 2017 TCB workshop Notes, SAR test were performed with Power Class 3(given the specific UL/DL Limitations for Power Class 2)..

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB publication 941225 D05A v01r02, SAR for LTE DL CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.

This device supports LTE Carrier Aggregation (CA) for LTE band 41 with two component carriers in the uplink. SAR measurements and conducted powers were evaluated per 2017 Fall TCBC Workshop Notes.

This device supports downlink 4x4 MIMO operations for some LTE bands. Per Ma 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum output power with 4x4 DL MIMO inactive.

Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

In order to satisfy the limitations of the duty factor of the 5G NR TDD band, these were tested as n41/n77 band to which duty factor 100% were applied to all SAR test configurations (Head/Body worn/Hotspot/Phablet SAR) in FTM Mode.

Per FCC KDB 941225 D01v03r01, 12.2 kbps RMC is the primary mode and HSPA (HSUPA/HSDPA with RMC) is the secondary mode.

Per FCC KDB 941225 D01v03r01, The SAR test exclusion is applied to the secondary mode by the following equation.

$$\text{Adjusted SAR} = \text{Highest Reported SAR} \times \frac{\text{Secondary Max tune - up (mW)}}{\text{Primary Max tune - up (mW)}} \leq 1.2 \text{ W/kg.}$$

Based on the highest Reported SAR, the secondary mode is not required.

Per FCC KDB 690783 1 D01 SAR Listings on Grants v01r03 and KDB 447498 D01 General RF Exposure Guidance v06 The SAR numbers listed must be consistent with the highest reported test results required by the published RF exposure KDB procedures. When the measured SAR is not at the maximum tune-up tolerance limit or maximum output power allowed for production units, the measured results are scaled to the maximum conditions to determine compliance; the scaled results are referred to as the reported SAR.

$$\text{The Reported SAR} = \text{The Measured SAR} \times \frac{\text{Maximum tune-up (mW)}}{\text{Measured Conducted Power (mW)}}$$

The Reported SAR for WLAN and Bluetooth

$$\text{The Reported SAR} = \text{The Measured SAR} \times \frac{\text{Maximum tune-up (mW)}}{\text{Measured Conducted Power (mW)}} \times \text{Duty factor}$$

5. Introduction

The FCC has adopted the guidelines for evaluating the environmental effects of radio frequency radiation in ET Docket 93-62 on Aug. 6, 1996 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices.

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York 10017. The measurement procedure described in IEEE/ANSI C95.3-1992 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave is used for guidance in measuring SAR due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in Biological Effects and Exposure Criteria for Radio Frequency Electromagnetic Fields," NCRP Report No. 86 NCRP, 1986, Bethesda, MD 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

SAR Definition

Specific Absorption Rate (SAR) is defined as the time derivative of the incremental electromagnetic energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body.

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right)$$

Figure 1. SAR Mathematical Equation
SAR is expressed in units of Watts per Kilogram (W/kg)

Where:

- = conductivity of the tissue-simulant material (S/m)
- = mass density of the tissue-simulant material (kg/m³)
- = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relations to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.

6. Description of test equipment

6.1 SAR MEASUREMENT SETUP

These measurements are performed using the DASY4 automated dosimetric assessment system. It is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland. It consists of high precision robotics system (Staubli), robot controller, Pentium III computer, near-field probe, probe alignment sensor, and the generic twin phantom containing the brain equivalent material. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF) (see Figure.2).

A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The PC with Windows XP or Windows 7 is working with SAR Measurement system DASY4 & DASY5, A/D interface card, monitor, mouse, and keyboard. The Staubli Robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.

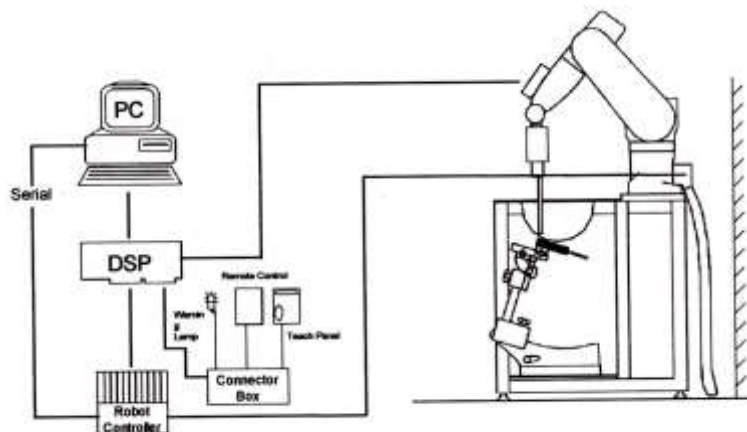


Figure 2. HCT SAR Lab. Test Measurement Set-up

The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer. The system is described in detail in.

7. SAR Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013.

1. The SAR distribution at the exposed side of the head or body was measured at a distance no more than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the DUT's head and body area and the horizontal grid resolution was depending on the FCC KDB 865664 D01v01r04 table 4-1 & IEEE 1528-2013.
2. Based on step, the area of the maximum absorption was determined by sophisticated interpolations routines implemented in DASY software. When an Area Scan has measured all reachable point. DASY system computes the field maximal found in the scanned are, within a range of the maximum. SAR at this fixed point was measured and used as a reference value.
3. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB 865664 D01v01r04 table 4-1 and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (reference from the DASY manual.)
 - a. The data at the surface were extrapolated, since the center of the dipoles is no more than 2.7 mm away from the tip of the probe (it is different from the probe type) and the distance between the surface and the lowest measuring point is 1.2 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
 - b. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed using the 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions. The volume was integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan. If the value changed by more than 5 %, the SAR evaluation and drift measurements were repeated.

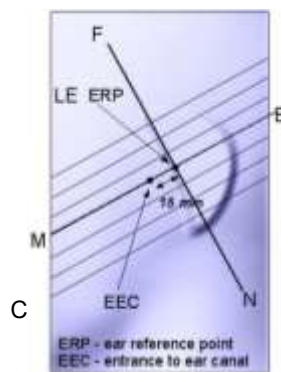
Area scan and zoom scan resolution setting follow KDB 865664 D01v01r04 quoted below.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	·δ·ln(2)±0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1°	20°±1°
Maximum area scan Spatial resolution: Δx _{Area} , Δy _{Area}			≤ 2 GHz: ≤15 mm 2-3 GHz: ≤12 mm	3-4 GHz: ≤12 mm 4-6 GHz: ≤10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan Spatial resolution: Δx _{zoom} , Δy _{zoom}			≤ 2 GHz: ≤8mm 2-3 GHz: ≤5mm*	3-4 GHz: ≤5 mm* 4-6 GHz: ≤4 mm*
Maximum zoom scan Spatial resolution normal to phantom surface	uniform grid: Δz _{zoom} (n)		≤ 5 mm	3-4 GHz: ≤4 mm 4-5 GHz: ≤3 mm 5-6 GHz: ≤2 mm
	graded grid	Δz _{zoom} (1): between 1 st two Points closest to phantom surface	≤ 4 mm	3-4 GHz: ≤3 mm 4-5 GHz: ≤2.5 mm 5-6 GHz: ≤2 mm
		Δz _{zoom} (n>1):between subsequent Points	≤1.5·Δz _{zoom} (n-1)	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3-4 GHz: ≥28 mm 4-5 GHz: ≥25 mm 5-6 GHz: ≥22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details. * When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

8. Description of Test Position

8.1 Eer Reference Point

Figure 8-2 shows the front, back and side views of the SAM phantom. The center-of-mouth reference point is labeled "M", the left ear reference point (ERP) is marked "LE", and the right ERP is marked "RE." Each ERP is on the B-M (back-mouth) line located 15 mm behind the entrance-to-ear-canal (EEC) point, as shown in Figure 6-1. The Reference Plane is defined as passing through the two ear reference point and point M. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (See Figure 5-1), Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning.



8.2 Handset Reference Points

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The device under test was placed in a normal operating position with the acoustic output located along the "vertical centerline" on the front of the device aligned to the "ear reference point"(see Figure 8-3). The acoustic output was then located at the same level as the center of the ear reference point. The device under test was positioned so that the "vertical centerline" was bisecting the front surface of the handset at its top and bottom edges, positioning the "ear reference point" on the outer surface of the both the left and right head phantoms on the ear reference point.



Figure 8-2
Front, back and side views of SAM Twin Phantom

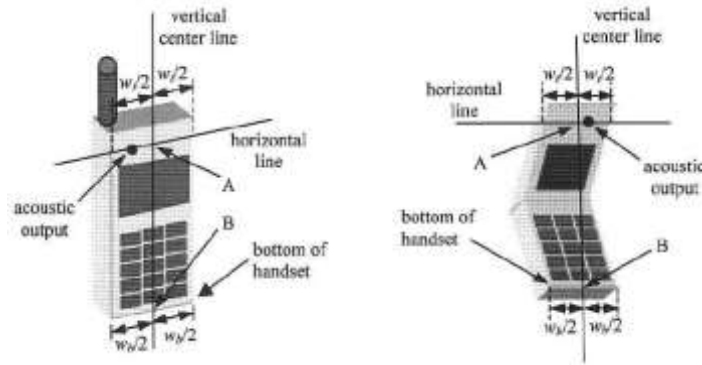


Figure 6-3. Handset vertical and horizontal reference lines

8.3 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameter; relative permittivity $\epsilon=3$ and loss tangent $\sigma=0.02$.

8.4 Position for cheek

Figure 6.4. shows cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

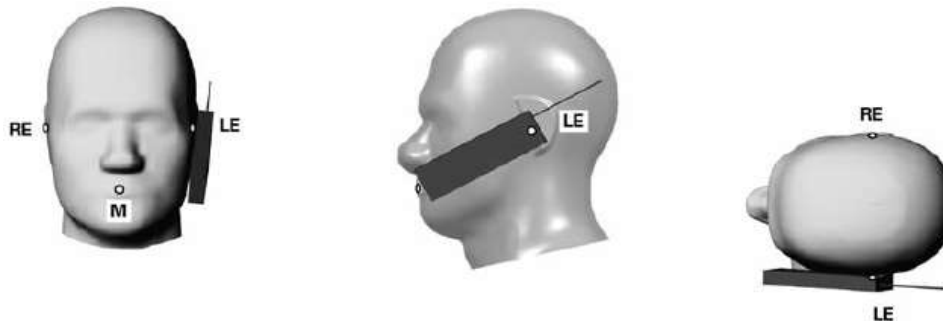


Figure 8.4 Cheek/ Touch position of the wireless device

8.5 Definition of the “tilted” position

Figure 6.5. shows tilted position. Place the device in the cheek position. Then while maintaining the orientation of the device, retract the device parallel to the reference plane far enough away from the phantom to enable a rotation of the device by 15°.



Figure 8.5. Tilt 15° position of the wireless device

8.6 Body-Worn Accessory Configurations

Body-worn operating configurations are tested with the belt-dips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6-6). Per FCC KDB Publication 648474 D04v01r03 Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in Body-worn accessories. The Body-worn accessory procedures in FCC KDB Publication 447498 D01v06 should be used to test for Body-worn accessory SAR compliance, without a headset connected to it.. When the reported SAR for a body- worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body- worn accessory with a headset attached to the handset.



Figure 8-6
Sample Body-Worn Diagram

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-dip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

8.7 Wireless Router Configurations

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06v02r01 where SAR test considerations for handsets (L x W ≥ 9cm x 5 cm) are based on a composite test separation distance of 10 mm from the front back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the Body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some Body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The Portable Hotspot feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

8.8 Extremity Exposure Configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions: i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1-g body and 10-g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D01v06 should be applied to determine SAR test requirements.

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear. the phablets procedures outlined in KDB Publication 648474 D04 v01r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna ≤ 25 mm from that surface or edge, in direct contact with the phantom, for 10-g SAR. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (including tolerance) is 1-g SAR > 1.2 W/kg.

8.9 Additional Test Positions due to Proximity Conditions

This device uses a sensor to reduce output powers in extremity (hand-held) use conditions.

When the sensor detects a user is touching the device on or near to the antenna the device reduces the maximum allowed output power. However, the proximity sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, an additional exposure condition is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a non-reduced output power level.

FCC KDB 616217 D04 v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional exposure conditions. The smallest separation distance determined by the sensor triggering and sensor coverage for each applicable edge, minus 1 mm, was used as the test separation distance for SAR testing. Sensor triggering distance summary data is included in below table.

Wireless technologies	Position	§6.2 Triggering Distance	§6.3 Coverage	§6.4 Tilt Angle	Worst case distance for Phablet SAR
GSM850/GSM1900/ UMTS B2/B4 LTE B2/B4/B7/B25/B30/B66 NR n2/n25/n66	Rear	20	N/A	N/A	19
	Bottom	14	N/A	N/A	13

8.10 Bluetooth tethering Configurations

Per May 2017 TCBC Workshop documents When Bluetooth tethering applies, simultaneous transmission SAR needs consideration.

This model allows users to exchange data or media files with other Bluetooth enabled devices using Bluetooth, which means they can connect to other Bluetooth enabled devices via Bluetooth tethering. Therefore, SAR test was performed for additional simultaneous transmissions. Head and Bluetooth tethering SAR were evaluated for BT BR tethering applications.

9. RF Exposure Limits

HUMAN EXPOSURE	UNCONTROLLED ENVIRONMENT General Population (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT Occupational (W/kg) or (mW/g)
SPATIAL PEAK SAR * (Partial Body)	1.6	8.0
SPATIAL AVERAGE SAR ** (Whole Body)	0.08	0.4
SPATIAL PEAK SAR *** (Hands / Feet / Ankle / Wrist)	4.0	20.0

NOTES:

* The Spatial Peak value of the SAR averaged over any 1 g of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

** The Spatial Average value of the SAR averaged over the whole-body.

*** The Spatial Peak value of the SAR averaged over any 10 g of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

10. FCC SAR General Measurement Procedures

Power Measurements for licensed transmitters are performed using a base simulator under digital average power.

10.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as Reported SAR. The highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

10.2 3G SAR Test Reduction Procedure

10.2.1 GSM, GPRS AND EDGE

The following procedures may be considered for each frequency band to determine SAR test reduction for devices operating in GSM/GPRS/EDGE modes to demonstrate RF exposure compliance. GSM voice mode transmits with 1 time-slot. GPRS and EDGE may transmit up to 4 time slots in the 8 time-slot frame according to the multi-slot class implemented in a device.

10.2.2 SAR Test Reduction

In FCC KDB 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data 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

10.2.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB 941225 D01v03r01-3G SAR Measurement Procedures. The handset was placed into a simulated call using a base station simulator in a shielded chamber. Such test signals offer a consistent means for testing SAR and are recommended for evaluation SAR measurements were taken with a fully charged battery. In order to verify that the device was tested and maintained at full power, this was configured with the base station simulator. The SAR measurement Software calculates a reference point at the start and end of the test to Check for power drifts. If conducted Power deviations of more than 5 % occurred, the tests were repeated.

10.3 SAR Measurement Conditions for UMTS

10.3.1 Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in sec. 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all “1s” or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

10.3.2 Body SAR measurements

SAR for body exposure configurations is measured using the 12.2kbps RMC with the TPC bits all “1s”. the 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using and applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported SAR configuration in 12.2kbps RMC.

10.3.3 SAR Measurements with Rel. 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using and FRC with H-SET 1 in Sub-test and a 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to release 6 HSPA test procedures. 8.4.5 SAR Measurement with Rel.6 HSUPA The 3G SAR test Reduction Procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, Using H-Set 1 and QPSK for FRC and a 12.2kbps RMC configured in Test Loop Mode 1 and Power Control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA. When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

10.3.4 SAR Measurements with Rel. 6 HSUPA

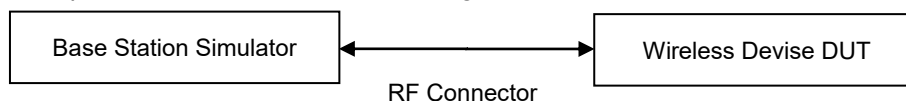
The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

10.3.5 DC-HSDPA

SAR is required for Rel.8 DC-HSDPA when SAR is required for Rel.5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in table C.8.1.12 of 3GPP TS34.121-1 to determine SAR test reduction. Primary and secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

DC-HSDPA Configurations

- ◆ 3GPP specification TS 34.121-1 Release 8. was used for used for DC-HSDPA guidance.
- ◆ H-set 12(QPSK)was conformed to be used during DC-HSDPA measurements.



10.4 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r05 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluation SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

10.4.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

10.4.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36. 101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

10.4.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

10.4.4 Required RB Size and RB offsets for SAR testing

According to FCC KDB 941225 D05v02r05

- a. Per sec 4.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Sec 4.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Sec 4.2.1.
- c. Per Sec. 4.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
- d. Per Sec. 4.2.4 and 4.3, SAR test for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sec. 4.2.1 through 4.2.3 is less than or equal to 1/2 dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/kg.

10.4.5 Downlink Carrier Aggregation

Conducted power measurements with LTE Carrier aggregation (CA) downlink only active are made in accordance to KDB publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. For every supported combination of downlink only carrier aggregation, additional conducted output Powers are measured with downlink carrier aggregation active for the configuration with highest measured maximum conducted power with the downlink carrier aggregation inactive measured among the channel bandwidth, modulation and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the

average output power with downlink only carrier aggregation active is not more than 0.25dB higher than the average output power with downlink only carrier aggregation inactive.

10.4.6 LTE Uplink Carrier Aggregation SAR Measurement Procedure

This device is specified with the same maximum output power and Tune-up tolerances for intra-band contiguous up-link LTE CA_41C and the single carrier LTE B41. Both Uplink carrier aggregation and single carrier are operating with Power class 3/2.

This device support intra-band contiguous UL CA: LTE CA_41C with a maximum of 20 MHz component carriers. For intra-band contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that aggregate maximum allowed output power is equivalent to the single carrier scenario.

This device does not have any operating restrictions, Power reduction or variations among the different LTE operating mode configurations on single carrier LTE B41 and intra-band contiguous up-link LTE CA_41C operations.

The measured power results of single carrier LTE B41 and intra-band contiguous up-link LTE CA_41C satisfy Maximum output power and Tune-up tolerances.

Per Fall 2017 TCB Workshop Notes, the output Power with uplink CA active was measured for the configuration with the Highest Reported SAR with standalone condition.

Because the maximum output for UL CA of LTE B41 is $\leq$ standalone LTE mode (without CA), SAR for LTE B41 Up link CA was performed at the highest standalone SAR configuration without CA and also UL CA SAR is not required for all required test channels, Because the reported SAR for UL CA configuration is > 1.2 W/kg

10.4.7 LTE(TDD) Considerations

According to KDB 941225 D05v02r05, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33 %) using Uplink-downlink configuration 0 and Special subframe configuration 6. LTE TDD Band 41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special sub frame configurations.

Calculated Duty Cycle – Extended cyclic prefix in uplink $\times (T_s) \times$ no of S + no of U

Example for calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = $(5120 \times (1/(15000 \times 2048)) \times 2 + 0.006)/0.01 = 63.33 \%$

Where

$T_s = 1/(15000 \times 2048)$ seconds

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

HPUE (PC2)

Calculated Duty Cycle for Uplink-Downlink Configuration 1:

Calculated Duty Cycle = $5120 \cdot (1 / (15000 \cdot 2048)) \cdot 2 + 0.004 / 0.01 = 43.33 \%$

10.4.6 The Call Box Setup for LTE(TDD)

When you Want to Test for LTE TDD, Please Change Frame Structure TDD and TDD Uplink Downlink Configuration 0 and Special Subframe Configuration 6.

2018/01/08 11:00		Idle(Regist)		Phone-2	Phone-1
<Fundamental Measurement> Output Main		Continuous		W-CDMA	LTE
Parameter	Fundamental	UE Report			
Reference Signal not found		UE Power : -21.5 dBm		Parameter	
Power Measurement		(Meas. Count : 11/ 20)		Common	
TX Power		Avg.	Max.	Min.	Limit
Channel Power		*****	*****	*****	20.3 to 25.7 dBm
Modulation Analysis		View		(Meas. Count : 1/ 1)	
Common Parameter		TX1 - Max. Power(QPSK/1 RB)		Physical Channel	
Test Parameter				Call Processing	
Call Processing		On		Scenario Normal	
Frequency		TDD		TX Measurement Setup	
Frame Structure		FDD Hz		RX Measurement Setup	
Channel Bandwidth		TDD 20		Fundamental Measurement	
UL Channel & Frequency		CH = 2593.000000 MHz			
DL Channel & Frequency		40620 CH = 2593.000000 MHz			
Operation Band		41			
Frequency Separation		(0)MHz			
Level		30.0 dBm			
Input Level				1 2 3 4	

2018/01/08 11:01		Idle(Regist)		Phone-2	Phone-1
<Fundamental Measurement> Output Main		Continuous		W-CDMA	LTE
Parameter	Fundamental	UE Report			
Reference Signal not found		UE Power : -21.5 dBm		Parameter	
Power Measurement		(Meas. Count : 11/ 20)		Common	
TX Power		Avg.	Max.	Min.	Limit
Channel Power		*****	*****	*****	20.3 to 25.7 dBm
Modulation Analysis		View		(Meas. Count : 1/ 1)	
MCS Index (-)		5 (QPSK)	(5)	(2216)	-
MCS Index (5)		5 (QPSK)	(5)	(1864)	4
MCS Index (0)		5 (QPSK)	(5)	(2216)	2
MCS Index (1,6)		N/A (-----)	(--)	(-----)	2
CFI		3			
TDD		subframe 0 1 2 3 4 5 6 7 8 9			
Uplink Downlink Configuration		0 : (5ms) D S U U U D S U U U			
Special Subframe Configuration		6			
Physical Channel Parameter					
PSS Power		0.0 dB			
SSS Power		0.0 dB			
PBCH Power		0.0 dB			
PCFICH Power		0.0 dB			
PHICH Power		0.0 dB			
		1 2 3 4			

10.5 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

10.5.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR system to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92-96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

10.5.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg for 1g SAR or > 3.0 W/kg for 10g SAR. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg for 1g SAR or > 3.0 W/kg for 10g SAR.

10.5.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 GHz – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 GHz – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification.

Unless band gap channels are permanently disabled, SAR must be considered for these channels.

10.5.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g SAR and ≤ 1.0 W/kg for 10g SAR, no additional testing for the remaining test position is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg for 1g SAR and ≤ 2.0 W/kg for 10g SAR or all test positions are measured.

10.5.5 2.4 GHz SAR test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS is that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

2.4 GHz 802.11 g/n OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed.

10.5.6 OFDM Transmission Mode and SAR Test Channel Selection

For the 2.4 GHz and 5 GHz bands, when the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate and lowest order 802.11 a/g/n/ac mode. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11 ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

10.5.7 Initial Test Configuration Procedure

For OFDM, in both 2.4 GHz and 5 GHz bands, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, and lowest data rate. If the average RF output powers of the highest identical transmission modes are within 0.25 dB of each other, mid channel of the transmission mode with highest average RF output power is the initial test channel. Otherwise, the channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements.

10.5.8 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position on procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg for 1g SAR and ≤ 3.0 W/kg for 10g SAR, no additional SAR tests for the subsequent test configurations are required.

11. Output Power Specifications

This device operates using the following maximum output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB publication 447498 D01v06.

Licensed bands

Test Description	Test Procedure Used
Conducted Output Power	- KDB 971168 D01 v03r01 - Section 5.2.4 - ANSI C63.26-2015 - Section 5.2.1 & 5.2.4.2

Test Overview

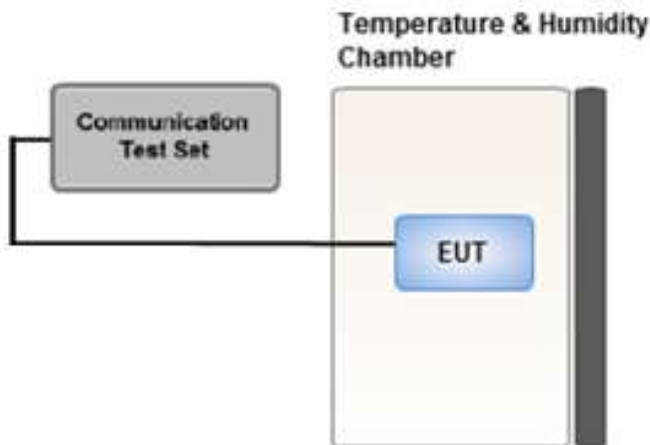
According to ANSI C63.26-2015 Section 5.2.1 when measuring the maximum RF output power from such devices, control over the EUT must be provided either through special test software (provided by manufacturer specifically for compliance testing, but not accessible by an end user) or through use of a base station emulator, communications test set, call box, or similar instrumentation that is capable of establishing a communications link with the EUT to enable control over variable parameters (e.g., output power, OBW, etc.).

In some cases, these instruments also include basic digital spectrum analyzer and/or power meter capabilities that can be utilized to measure the RF output power if the specified detectors and requirements can be realized and the measurement functions have been calibrated.

Test Procedure

1. The RF port of the EUT was connected to the Communication Tester via an RF cable.
2. Conducted average power was measured using a calibrated Radio Communication Tester.

Test setup



11.1 GSM

11.1.1 GSM Maximum Conducted Output Power

Mode / Band		Voice	GPRS(GMSK) Data – CS1(dBm)				EDGE Data (dBm)			
		GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot	EDGE 1 TX Slot	EDGE 2 TX Slot	EDGE 3 TX Slot	EDGE 4 TX Slot
Maximum		33.0	33.0	31.5	29.5	27.5	27.0	25.5	23.5	22.0
Nominal		32.0	32.0	30.5	28.5	26.5	26.0	24.5	22.5	21.0
GSM 850	128	31.93	31.94	30.11	28.54	26.47	25.81	24.25	22.33	21.26
	190	31.60	31.54	30.40	28.65	26.45	25.80	24.18	22.02	21.08
	251	31.55	31.51	29.84	28.24	26.13	25.27	23.75	21.78	20.75
Maximum		31.0	31.0	30.0	27.0	26.0	27.0	25.5	23.0	22.0
Nominal		30.0	30.0	29.0	26.0	25.0	26.0	24.5	22.0	21.0
GSM 1900	512	30.30	30.35	28.04	25.79	23.97	26.01	23.64	21.74	20.94
	661	30.75	30.71	28.68	26.14	24.56	25.97	24.33	22.38	21.21
	810	30.57	30.55	28.26	26.04	24.17	25.50	23.93	21.88	21.08

GSM Conducted output powers (Burst-Average)

Mode / Band		Voice	GPRS(GMSK) Data – CS1(dBm)				EDGE Data (dBm)			
		GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot	EDGE 1 TX Slot	EDGE 2 TX Slot	EDGE 3 TX Slot	EDGE 4 TX Slot
Maximum		23.97	23.97	25.48	25.24	24.49	17.97	19.48	19.24	18.99
Nominal		22.97	22.97	24.48	24.24	23.49	16.97	18.48	18.24	17.99
GSM 850	128	22.90	22.91	24.09	24.28	23.46	16.78	18.23	18.07	18.25
	190	22.57	22.51	24.38	24.39	23.44	16.77	18.16	17.76	18.07
	251	22.52	22.48	23.82	23.98	23.12	16.24	17.73	17.52	17.74
Maximum		21.97	21.97	23.98	22.74	22.99	17.97	19.48	18.74	18.99
Nominal		20.97	20.97	22.98	21.74	21.99	16.97	18.48	17.74	17.99
GSM 1900	512	21.27	21.32	22.02	21.53	20.96	16.98	17.62	17.48	17.93
	661	21.72	21.68	22.66	21.88	21.55	16.94	18.31	18.12	18.20
	810	21.54	21.52	22.24	21.78	21.16	16.47	17.91	17.62	18.07

GSM Conducted output powers (Frame-Average)

Note:

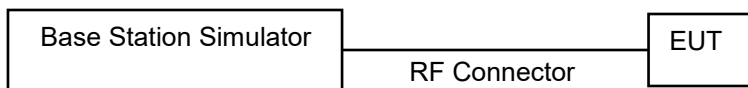
Time slot average factor is as follows:

1 Tx slot = 9.03 dB, Frame-Average output power = Burst-Average output power – 9.03 dB

2 Tx slot = 6.02 dB, Frame-Average output power = Burst-Average output power – 6.02 dB

3 Tx slot = 4.26 dB, Frame-Average output power = Burst-Average output power – 4.26 dB

4 Tx slot = 3.01 dB, Frame-Average output power = Burst-Average output power – 3.01 dB



11.1.2 GSM Reduced Conducted Output Power (Hotspot Mode, Earjack)

Mode / Band		Voice	GPRS(GMSK) Data – CS1(dBm)				EDGE Data (dBm)			
		GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot	EDGE 1 TX Slot	EDGE 2 TX Slot	EDGE 3 TX Slot	EDGE 4 TX Slot
Maximum		31.0	31.0	29.5	27.5	25.5	27.0	25.5	23.5	22.0
Nominal		30.0	30.0	28.5	26.5	24.5	26.0	24.5	22.5	21.0
GSM 850	128	30.96	30.94	27.95	26.26	25.22	26.08	24.48	22.47	21.66
	190	30.98	30.98	28.02	25.82	25.01	26.09	24.55	22.46	21.44
	251	30.57	30.55	27.57	25.73	24.81	25.92	24.23	22.07	21.08
Maximum		28.5	28.5	26.5	24.5	22.5	26.5	25.0	23.0	22.0
Nominal		27.5	27.5	25.5	23.5	21.5	25.5	24.0	22.0	21.0
GSM 1900	512	27.16	27.08	25.02	23.24	21.42	25.96	23.61	21.61	20.93
	661	27.65	27.54	25.44	23.82	21.74	25.86	24.25	22.38	21.14
	810	27.55	27.51	25.40	23.50	21.91	25.45	23.87	21.65	20.85

GSM Conducted output powers (Burst-Average)

Mode / Band		Voice	GPRS(GMSK) Data – CS1(dBm)				EDGE Data (dBm)			
		GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot	EDGE 1 TX Slot	EDGE 2 TX Slot	EDGE 3 TX Slot	EDGE 4 TX Slot
Maximum		21.97	21.97	23.48	23.24	22.49	17.97	19.48	19.24	18.99
Nominal		20.97	20.97	22.48	22.24	21.49	16.97	18.48	18.24	17.99
GSM 850	128	21.93	21.91	21.93	22.00	22.21	17.05	18.46	18.21	18.65
	190	21.95	21.95	22.00	21.56	22.00	17.06	18.53	18.20	18.43
	251	21.54	21.52	21.55	21.47	21.80	16.89	18.21	17.81	18.07
Maximum		19.47	19.47	20.48	20.24	19.49	17.47	18.98	18.74	18.99
Nominal		18.47	18.47	19.48	19.24	18.49	16.47	17.98	17.74	17.99
GSM 1900	512	18.13	18.05	19.00	18.98	18.41	16.93	17.59	17.35	17.92
	661	18.62	18.51	19.42	19.56	18.73	16.83	18.23	18.12	18.13
	810	18.52	18.48	19.38	19.24	18.90	16.42	17.85	17.39	17.84

GSM Conducted output powers (Frame-Average)

Note:

Time slot average factor is as follows:

- 1 Tx slot = 9.03 dB, Frame-Average output power = Burst-Average output power – 9.03 dB
- 2 Tx slot = 6.02 dB, Frame-Average output power = Burst-Average output power – 6.02 dB
- 3 Tx slot = 4.26 dB, Frame-Average output power = Burst-Average output power – 4.26 dB
- 4 Tx slot = 3.01 dB, Frame-Average output power = Burst-Average output power – 3.01 dB

GSM Class : B

GSM voice/GPRS VOIP: Head SAR , Body worn SAR

GPRS/EDGE Multi-slots 12 : Hotspot SAR with GPRS/EDGE

Multi-slot Class 12 with CS 1 (GMSK)



11.1.3 GSM Reduced Conducted Output Power (Grip Sensor on)

Mode / Band		Voice	GPRS(GMSK) Data – CS1(dBm)				EDGE Data (dBm)			
		GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot	EDGE 1 TX Slot	EDGE 2 TX Slot	EDGE 3 TX Slot	EDGE 4 TX Slot
Maximum		31.0	31.0	29.5	27.5	25.5	27.0	25.5	23.5	22.0
Nominal		30.0	30.0	28.5	26.5	24.5	26.0	24.5	22.5	21.0
GSM 850	128	30.88	30.88	28.02	26.19	25.18	26.04	24.48	22.47	21.68
	190	30.98	30.97	28.07	25.75	24.92	26.08	24.47	22.39	21.38
	251	30.56	30.55	27.50	25.77	24.73	25.99	24.15	22.10	21.18
Maximum		28.5	28.5	26.5	24.5	22.5	26.5	25.0	23.0	22.0
Nominal		27.5	27.5	25.5	23.5	21.5	25.5	24.0	22.0	21.0
GSM 1900	512	27.10	27.13	25.10	23.17	21.42	25.98	23.71	21.64	20.94
	661	27.55	27.54	25.43	23.83	21.75	25.81	24.26	22.36	21.18
	810	27.58	27.51	25.32	23.55	21.94	25.44	23.87	21.66	20.89

GSM Conducted output powers (Burst-Average)

Mode / Band		Voice	GPRS(GMSK) Data – CS1(dBm)				EDGE Data (dBm)			
		GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot	EDGE 1 TX Slot	EDGE 2 TX Slot	EDGE 3 TX Slot	EDGE 4 TX Slot
Maximum		21.97	21.97	23.48	23.24	22.49	17.97	19.48	19.24	18.99
Nominal		20.97	20.97	22.48	22.24	21.49	16.97	18.48	18.24	17.99
GSM 850	128	21.85	21.85	22.00	21.93	22.17	17.01	18.46	18.21	18.67
	190	21.95	21.94	22.05	21.49	21.91	17.05	18.45	18.13	18.37
	251	21.53	21.52	21.48	21.51	21.72	16.96	18.13	17.84	18.17
Maximum		19.47	19.47	20.48	20.24	19.49	17.47	18.98	18.74	18.99
Nominal		18.47	18.47	19.48	19.24	18.49	16.47	17.98	17.74	17.99
GSM 1900	512	18.07	18.10	19.08	18.91	18.41	16.95	17.69	17.38	17.93
	661	18.52	18.51	19.41	19.57	18.74	16.78	18.24	18.10	18.17
	810	18.55	18.48	19.30	19.29	18.93	16.41	17.85	17.40	17.88

GSM Conducted output powers (Frame-Average)

Note:

Time slot average factor is as follows:

- 1 Tx slot = 9.03 dB, Frame-Average output power = Burst-Average output power – 9.03 dB
- 2 Tx slot = 6.02 dB, Frame-Average output power = Burst-Average output power – 6.02 dB
- 3 Tx slot = 4.26 dB, Frame-Average output power = Burst-Average output power – 4.26 dB
- 4 Tx slot = 3.01 dB, Frame-Average output power = Burst-Average output power – 3.01 dB

GSM Class : B

GSM voice/GPRS VOIP: Head SAR , Body worn SAR

GPRS/EDGE Multi-slots 12 : Hotspot SAR with GPRS/EDGE

Multi-slot Class 12 with CS 1 (GMSK)



11.2 UMTS

HSPA+

This DUT is only capable of QPSK HSPA+ in downlink. Therefore, the RF conducted power is not measured according to 941225 D01v03r01 3G SAR.

11.2.1 UMTS Maximum Conducted Output Power

UMTS Band 5 Maximum Conducted Output Power

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 5 [dBm]			3GPP MPR
		Subtest	DL 4357 UL 4132	DL 4408 UL 4183	DL 4458 UL 4233	
99	UMTS	12.2 kbps RMC	22.88	22.71	22.64	-
99		12.2 kbps AMR	22.88	22.72	22.64	-
2	HSDPA	Subtest 1	21.82	21.65	21.56	0
5		Subtest 2	21.80	21.68	21.56	0
5		Subtest 3	21.32	21.16	21.07	0.5
5		Subtest 4	21.29	21.18	21.06	0.5
6	HSUPA	Subtest 1	21.78	21.63	21.55	0
6		Subtest 2	19.80	19.65	19.56	2
6		Subtest 3	20.79	20.63	20.55	1
6		Subtest 4	19.79	19.63	19.55	2
6		Subtest 5	21.78	21.65	21.56	0
8	DC-HSDPA	Subtest 1	21.35	21.29	21.27	0
8		Subtest 2	21.31	21.31	21.25	0
8		Subtest 3	20.85	20.79	20.76	0.5
8		Subtest 4	20.85	20.79	20.76	0.5

UMTS Average Conducted output powers

UMTS Band 4 Maximum Conducted Output Power

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 4 [dBm]			3GPP MPR
		Subtest	DL 1537 UL 1312	DL 1637 UL 1412	DL 1738 UL 1513	
99	UMTS	12.2 kbps RMC	23.36	23.54	23.58	-
99		12.2 kbps AMR	23.36	23.54	23.54	-
5	HSDPA	Subtest 1	22.94	23.16	23.15	0
5		Subtest 2	22.93	23.16	23.14	0
5		Subtest 3	21.93	22.15	22.15	0.5
5		Subtest 4	21.92	22.14	22.15	0.5
6	HSUPA	Subtest 1	22.97	23.12	23.15	0
6		Subtest 2	20.42	20.65	20.62	2
6		Subtest 3	20.52	20.70	20.67	1
6		Subtest 4	20.45	20.63	20.64	2
6		Subtest 5	22.94	23.15	23.17	0
8	DC-HSDPA	Subtest 1	22.91	23.37	23.33	0
8		Subtest 2	22.87	23.36	23.29	0
8		Subtest 3	21.90	22.37	22.30	0.5
8		Subtest 4	21.90	22.38	22.31	0.5

UMTS Average Conducted output powers

UMTS Band 2 Maximum Conducted Output Power

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 2 [dBm]			3GPP MPR
		Subtest	DL 9662 UL 9262	DL 9800 UL 9400	DL 9938 UL 9538	
99	UMTS	12.2 kbps RMC	23.01	23.38	23.15	-
99		12.2 kbps AMR	23.02	23.43	23.16	-
5	HSDPA	Subtest 1	22.58	23.05	22.81	0
5		Subtest 2	22.61	23.02	22.82	0
5		Subtest 3	21.61	22.00	21.79	0.5
5		Subtest 4	21.60	21.99	21.80	0.5
6	HSUPA	Subtest 1	22.53	23.01	22.83	0
6		Subtest 2	20.46	20.49	20.27	2
6		Subtest 3	20.04	20.48	20.28	1
6		Subtest 4	20.28	20.48	20.28	2
6		Subtest 5	22.54	23.00	22.82	0
8	DC-HSDPA	Subtest 1	22.07	22.51	22.34	0
8		Subtest 2	22.12	22.54	22.34	0
8		Subtest 3	21.13	21.53	21.32	0.5
8		Subtest 4	21.14	21.52	21.33	0.5

UMTS Average Conducted output powers

DC-HSDPA Configurations

- ◆ 3GPP specification TS 34.121-1 Release 8. was used for used for DC-HSDPA guidance.
- ◆ H-set 12(QPSK)was conformed to be used during DC-HSDPA measurements.



11.2.2 UMTS Reduced Conducted Output Power (Hotspot mode activated)

UMTS Band 4 Hotspot Back-off Power

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 4 [dBm]			3GPP MPR
		Subtest	DL 1537 UL 1312	DL 1637 UL 1412	DL 1738 UL 1513	
99	UMTS	12.2 kbps RMC	21.36	21.55	21.53	-
99		12.2 kbps AMR	21.36	21.55	21.53	-
5	HSDPA	Subtest 1	20.92	21.15	21.14	0
5		Subtest 2	20.93	21.15	21.14	0
5		Subtest 3	19.92	20.16	20.16	0.5
5		Subtest 4	19.95	20.13	20.15	0.5
6	HSUPA	Subtest 1	20.89	21.13	21.14	0
6		Subtest 2	18.41	18.61	18.62	2
6		Subtest 3	18.51	18.58	18.60	1
6		Subtest 4	18.40	18.60	18.62	2
6		Subtest 5	20.95	21.12	21.12	0
8	DC-HSDPA	Subtest 1	20.89	21.36	21.31	0
8		Subtest 2	20.86	21.37	21.32	0
8		Subtest 3	19.85	20.35	20.31	0.5
8		Subtest 4	19.86	20.35	20.29	0.5

UMTS Average Conducted output powers

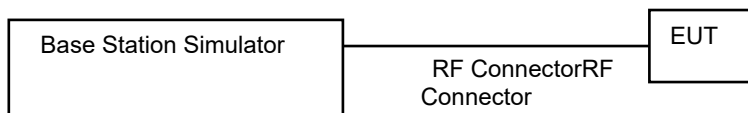
UMTS Band 2 Hotspot Back-off Power

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 2 [dBm]			3GPP MPR
		Subtest	DL 9662 UL 9262	DL 9800 UL 9400	DL 9938 UL 9538	
99	UMTS	12.2 kbps RMC	21.01	21.40	21.16	-
99		12.2 kbps AMR	21.01	21.39	21.17	-
5	HSDPA	Subtest 1	20.57	21.01	20.78	0
5		Subtest 2	20.58	21.01	20.79	0
5		Subtest 3	19.58	19.99	19.78	0.5
5		Subtest 4	19.56	19.99	19.81	0.5
6	HSUPA	Subtest 1	20.54	20.99	20.79	0
6		Subtest 2	18.05	18.47	18.27	2
6		Subtest 3	18.03	18.46	18.25	1
6		Subtest 4	18.03	18.48	18.28	2
6		Subtest 5	20.52	20.97	20.78	0
8	DC-HSDPA	Subtest 1	20.07	20.50	20.32	0
8		Subtest 2	20.12	20.53	20.33	0
8		Subtest 3	19.10	19.50	19.35	0.5
8		Subtest 4	19.10	19.53	19.31	0.5

UMTS Average Conducted output powers

DC-HSDPA Configurations

- ◆ 3GPP specification TS 34.121-1 Release 8. was used for used for DC-HSDPA guidance.
- ◆ H-set 12(QPSK) was conformed to be used during DC-HSDPA measurements.



11.2.3 UMTS Reduced Conducted Output Power (Grip back Activated/ Ear jack Activated)

UMTS Band 4 Grip Back-off Power

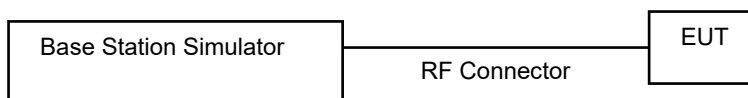
3GPP Release Version	Mode	3GPP 34.121	UMTS Band 4 [dBm]			3GPP MPR
		Subtest	DL 1537 UL 1312	DL 1637 UL 1412	DL 1738 UL 1513	
99	UMTS	12.2 kbps RMC	21.35	21.56	21.54	-
99		12.2 kbps AMR	21.34	21.55	21.52	-
5	HSDPA	Subtest 1	20.94	21.15	21.13	0
5		Subtest 2	20.96	21.15	21.14	0
5		Subtest 3	19.93	20.15	20.13	0.5
5		Subtest 4	19.91	20.16	20.14	0.5
6	HSUPA	Subtest 1	20.94	21.14	21.13	0
6		Subtest 2	18.41	18.61	18.60	2
6		Subtest 3	18.51	18.56	18.62	1
6		Subtest 4	18.40	18.60	18.61	2
6		Subtest 5	20.82	21.04	21.04	0
8	DC-HSDPA	Subtest 1	20.88	21.38	21.33	0
8		Subtest 2	20.88	21.37	21.30	0
8		Subtest 3	19.90	20.36	20.27	0.5
8		Subtest 4	19.89	20.37	20.39	0.5

UMTS Average Conducted output powers

UMTS Band 2 Grip back-off Power

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 2 [dBm]			3GPP MPR
		Subtest	DL 9662 UL 9262	DL 9800 UL 9400	DL 9938 UL 9538	
99	UMTS	12.2kbpsRMC	21.35	21.39	21.16	-
99		12.2kbpsAMR	21.34	21.39	21.16	-
5	HSDPA	Subtest 1	20.56	21.00	20.77	0
5		Subtest 2	20.57	20.98	20.81	0
5		Subtest 3	19.57	20.00	19.81	0.5
5		Subtest 4	19.55	19.99	19.79	0.5
6	HSUPA	Subtest 1	20.53	20.99	20.78	0
6		Subtest 2	18.07	18.47	18.27	2
6		Subtest 3	18.03	18.45	18.25	1
6		Subtest 4	18.04	18.48	18.27	2
6		Subtest 5	20.44	20.91	20.71	0
8	DC-HSDPA	Subtest 1	20.09	20.51	20.31	0
8		Subtest 2	20.11	20.51	20.31	0
8		Subtest 3	19.11	19.52	19.33	0.5
8		Subtest 4	19.12	19.52	19.33	0.5

- ◆ 3GPP specification TS 34.121-1 Release 8. was used for used for DC-HSDPA guidance.
- ◆ H-set 12(QPSK) was conformed to be used during DC-HSDPA measurements.



11.3 LTE Maximum Output Power

LTE B4/B5/B12/B13/B14/B26/B30/B38/B40/B71 does not support three non-overlapping channels at each supported max bandwidth. Per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the mid channel of the group of overlapping channels should be selected for testing.

11.3.1 LTE Maximum Conducted Power

[LTE Band 2_Main #2 Ant.Conducted Power]

LTE Band 2 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18607 Ch. 1850.7 MHz	18900 Ch. 1880 MHz	19193 Ch. 1909.3 MHz		
1.4 MHz	QPSK	1	0	23.84	23.99	23.75	0	0
		1	3	23.91	23.93	23.97	0	0
		1	5	23.77	24.03	23.75	0	0
		3	0	23.80	23.98	23.80	0	0
		3	1	23.88	24.08	23.95	0	0
		3	3	23.77	23.98	23.78	0	0
		6	0	22.96	23.02	23.03	0-1	1
	16QAM	1	0	23.06	23.28	23.40	0-1	1
		1	3	23.12	23.57	23.26	0-1	1
		1	5	23.14	23.53	23.39	0-1	1
		3	0	22.92	23.15	23.05	0-1	1
		3	1	22.99	23.08	23.12	0-1	1
		3	3	22.93	23.12	22.91	0-1	1
		6	0	22.10	22.19	22.13	0-2	2
	64QAM	1	0	22.10	22.17	22.04	0-2	2
		1	3	22.09	22.33	22.12	0-2	2
		1	5	22.13	22.30	22.17	0-2	2
		3	0	21.96	22.17	22.07	0-2	2
		3	1	22.03	22.17	22.09	0-2	2
		3	3	21.97	22.14	22.13	0-2	2
		6	0	20.86	21.04	20.81	0-3	3
	256QAM	1	0	19.13	19.22	19.07	0-5	5
		1	3	19.10	19.36	19.18	0-5	5
		1	5	19.03	19.17	19.11	0-5	5
		3	0	19.18	19.34	19.23	0-5	5
		3	1	19.02	19.15	19.14	0-5	5
		3	3	19.14	19.24	19.22	0-5	5
		6	0	18.96	19.00	19.07	0-5	5

LTE Band 2 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18615 Ch. 1851.5 MHz	18900 Ch. 1880 MHz	19185 Ch. 1908.5 MHz		
3 MHz	QPSK	1	0	23.96	23.98	23.92	0	0
		1	7	23.74	24.20	24.01	0	0
		1	14	23.62	23.95	23.91	0	0
		8	0	23.07	23.19	23.05	0-1	0
		8	3	23.06	23.17	23.28	0-1	0
		8	7	23.01	23.13	22.99	0-1	0
		15	0	23.06	23.18	23.12	0-1	1
	16QAM	1	0	23.31	23.51	23.12	0-1	1
		1	7	23.09	23.57	23.42	0-1	1
		1	14	23.36	23.57	23.46	0-1	1
		8	0	22.13	22.16	22.13	0-2	1
		8	3	22.06	22.23	22.18	0-2	1
		8	7	22.04	22.19	22.11	0-2	1
		15	0	22.07	22.18	22.04	0-2	2
	64QAM	1	0	22.11	22.28	22.21	0-2	2
		1	7	22.00	22.33	21.61	0-2	2
		1	14	22.13	22.31	21.56	0-2	2
		8	0	21.16	21.22	20.94	0-3	2
		8	3	21.18	21.25	21.16	0-3	2
		8	7	21.11	21.13	20.96	0-3	2
		15	0	21.01	21.18	21.16	0-3	3
	256QAM	1	0	19.05	19.28	19.06	0-5	5
		1	7	19.09	19.34	19.21	0-5	5
		1	14	19.20	19.35	18.53	0-5	5
		8	0	19.11	19.31	19.15	0-5	5
		8	3	19.08	19.23	19.13	0-5	5
		8	7	19.23	19.30	19.13	0-5	5
		15	0	19.09	19.15	19.13	0-5	5

LTE Band 2 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18625 Ch. 1852.5 MHz	18900 Ch. 1880 MHz	19175 Ch. 1907.5 MHz		
5 MHz	QPSK	1	0	23.87	24.00	24.04	0	0
		1	12	23.95	24.03	23.87	0	0
		1	24	23.68	23.85	23.67	0	0
		12	0	23.01	23.17	23.06	0-1	0
		12	6	23.09	23.14	23.14	0-1	0
		12	11	22.98	23.19	23.04	0-1	0
		25	0	23.01	23.07	23.02	0-1	1
	16QAM	1	0	23.16	23.23	23.24	0-1	1
		1	12	22.84	23.46	23.33	0-1	1
		1	24	23.39	23.68	23.48	0-1	1
		12	0	22.06	22.17	22.17	0-2	1
		12	6	22.13	22.20	22.14	0-2	1
		12	11	22.02	22.26	22.10	0-2	1
		25	0	21.99	22.16	22.05	0-2	2
	64QAM	1	0	22.01	22.30	22.05	0-2	2
		1	12	22.08	22.23	22.14	0-2	2
		1	24	21.96	22.22	22.07	0-2	2
		12	0	21.11	21.27	21.14	0-3	2
		12	6	21.18	21.29	21.09	0-3	2
		12	11	21.08	21.25	20.97	0-3	2
		25	0	21.09	21.16	21.08	0-3	3
	256QAM	1	0	19.01	19.16	19.18	0-5	5
		1	12	19.16	19.36	19.17	0-5	5
		1	24	18.76	19.20	19.24	0-5	5
		12	0	18.99	19.18	19.10	0-5	5
		12	6	19.11	19.12	19.13	0-5	5
		12	11	19.00	19.22	19.03	0-5	5
		25	0	19.04	19.12	19.08	0-5	5

LTE Band 2 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18650 Ch. 1855 MHz	18900 Ch. 1880 MHz	19150 Ch. 1905 MHz		
10 MHz	QPSK	1	0	23.47	23.71	23.84	0	0
		1	24	23.80	24.00	23.78	0	0
		1	49	23.61	23.77	23.74	0	0
		25	0	22.95	23.08	22.94	0-1	0
		25	12	23.05	23.14	23.10	0-1	0
		25	24	22.90	23.13	23.00	0-1	0
		50	0	22.97	23.07	22.96	0-1	1
	16QAM	1	0	23.14	23.16	23.54	0-1	1
		1	24	22.99	23.41	23.12	0-1	1
		1	49	22.83	23.09	23.25	0-1	1
		25	0	21.95	22.09	21.92	0-2	1
		25	12	22.06	22.19	22.12	0-2	1
		25	24	21.97	22.13	22.10	0-2	1
		50	0	21.95	22.06	21.97	0-2	2
	64QAM	1	0	21.72	21.79	22.26	0-2	2
		1	24	21.95	22.21	22.23	0-2	2
		1	49	22.03	22.25	22.29	0-2	2
		25	0	21.02	21.06	20.98	0-3	2
		25	12	21.07	21.15	21.16	0-3	2
		25	24	20.94	21.16	21.09	0-3	2
		50	0	20.99	21.08	20.93	0-3	3
	256QAM	1	0	18.78	18.93	18.78	0-5	5
		1	24	19.10	19.30	19.19	0-5	5
		1	49	18.93	19.08	19.04	0-5	5
		25	0	18.90	18.99	18.97	0-5	5
		25	12	19.08	19.11	19.08	0-5	5
		25	24	18.86	19.14	18.96	0-5	5
		50	0	18.96	19.03	18.97	0-5	5

LTE Band 2 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18675 Ch. 1857.5 MHz	18900 Ch. 1880 MHz	19125 Ch. 1902.5 MHz		
15 MHz	QPSK	1	0	23.39	23.83	23.83	0	0
		1	36	23.50	23.92	23.73	0	0
		1	74	23.66	23.75	23.82	0	0
		36	0	22.76	22.95	22.88	0-1	0
		36	18	22.84	23.02	22.92	0-1	0
		36	39	22.88	23.09	22.96	0-1	0
		75	0	22.82	22.95	22.80	0-1	1
	16QAM	1	0	23.06	23.21	23.13	0-1	1
		1	36	23.01	23.17	23.10	0-1	1
		1	74	22.98	23.21	23.27	0-1	1
		36	0	21.72	21.93	21.78	0-2	1
		36	18	21.85	22.01	21.85	0-2	1
		36	39	21.82	22.11	21.98	0-2	1
		75	0	21.83	22.03	21.92	0-2	2
	64QAM	1	0	21.72	22.03	21.94	0-2	2
		1	36	21.92	22.17	22.05	0-2	2
		1	74	21.92	22.19	22.17	0-2	2
		36	0	20.76	20.95	20.90	0-3	2
		36	18	20.87	21.12	20.94	0-3	2
		36	39	20.84	21.06	20.96	0-3	2
		75	0	20.88	20.95	20.93	0-3	3
	256QAM	1	0	18.76	18.77	18.75	0-5	5
		1	36	18.73	19.12	19.08	0-5	5
		1	74	18.93	19.03	18.84	0-5	5
		36	0	18.84	18.89	18.81	0-5	5
		36	18	18.86	19.04	18.93	0-5	5
		36	39	18.88	19.18	19.04	0-5	5
		75	0	18.81	18.95	18.89	0-5	5

LTE Band 2 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18700 Ch. 1860 MHz	18900 Ch. 1880 MHz	19100 Ch. 1900 MHz		
20 MHz	QPSK	1	0	23.54	23.77	23.76	0	0
		1	49	23.66	23.94	23.83	0	0
		1	99	23.85	24.05	23.91	0	0
		50	0	22.69	22.85	22.78	0-1	0
		50	25	22.84	23.03	22.99	0-1	0
		50	49	22.90	23.01	22.93	0-1	0
		100	0	22.83	23.02	22.88	0-1	1
	16QAM	1	0	23.21	23.09	23.49	0-1	1
		1	49	23.20	23.25	23.30	0-1	1
		1	99	23.28	23.11	22.98	0-1	1
		50	0	21.68	21.91	21.78	0-2	1
		50	25	21.80	22.04	21.97	0-2	1
		50	49	21.96	22.06	21.98	0-2	1
		100	0	21.82	21.96	21.86	0-2	2
	64QAM	1	0	21.91	22.04	21.99	0-2	2
		1	49	21.81	22.21	21.95	0-2	2
		1	99	22.08	22.20	22.11	0-2	2
		50	0	20.65	20.87	20.90	0-3	2
		50	25	20.84	21.11	20.95	0-3	2
		50	49	20.87	21.08	20.98	0-3	2
		100	0	20.76	21.05	20.92	0-3	3
	256QAM	1	0	18.63	18.59	18.77	0-5	5
		1	49	18.94	19.08	18.97	0-5	5
		1	99	18.82	18.93	18.89	0-5	5
		50	0	18.71	18.86	18.89	0-5	5
		50	25	18.81	19.01	18.96	0-5	5
		50	49	18.89	19.04	19.06	0-5	5
		100	0	18.77	19.00	18.86	0-5	5

[LTE Band 2 Sub #1 Ant. Conducted Power]

LTE Band 2 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18607 Ch. 1850.7 MHz	18900 Ch. 1880 MHz	19193 Ch. 1909.3 MHz		
1.4 MHz	QPSK	1	0	21.18	21.22	20.68	0	0
		1	3	21.19	21.24	20.72	0	0
		1	5	21.22	21.23	20.69	0	0
		3	0	21.09	21.26	20.72	0	0
		3	1	21.11	21.29	20.67	0	0
		3	3	21.12	21.28	20.71	0	0
		6	0	21.10	21.29	20.73	0-1	1
	16QAM	1	0	20.56	20.59	20.20	0-1	1
		1	3	20.56	20.57	20.21	0-1	1
		1	5	20.57	20.63	20.21	0-1	1
		3	0	20.28	20.26	19.82	0-1	1
		3	1	20.24	20.28	19.81	0-1	1
		3	3	20.26	20.33	19.83	0-1	1
		6	0	20.28	20.29	19.83	0-2	2
	64QAM	1	0	20.36	20.42	19.02	0-2	2
		1	3	20.39	20.44	18.97	0-2	2
		1	5	20.34	20.42	19.00	0-2	2
		3	0	20.37	20.37	19.00	0-2	2
		3	1	20.38	20.35	19.01	0-2	2
		3	3	20.33	20.39	19.04	0-2	2
		6	0	19.32	19.38	18.03	0-3	3
	256QAM	1	0	16.82	16.87	16.38	0-5	5
		1	3	16.88	16.97	16.45	0-5	5
		1	5	16.85	16.84	16.41	0-5	5
		3	0	16.92	16.79	16.38	0-5	5
		3	1	16.77	16.81	16.33	0-5	5
		3	3	16.79	16.85	16.35	0-5	5
		6	0	16.82	16.68	16.42	0-5	5

LTE Band 2 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18615 Ch. 1851.5 MHz	18900 Ch. 1880 MHz	19185 Ch. 1908.5 MHz		
3 MHz	QPSK	1	0	21.59	21.25	21.09	0	0
		1	7	21.59	21.25	21.14	0	0
		1	14	21.56	21.24	21.12	0	0
		8	0	20.74	20.26	20.40	0-1	0
		8	3	20.71	20.26	20.39	0-1	0
		8	7	20.70	20.22	20.35	0-1	0
		15	0	20.76	20.21	20.39	0-1	1
	16QAM	1	0	20.77	20.25	20.35	0-1	1
		1	7	20.71	20.26	20.37	0-1	1
		1	14	20.73	20.26	20.33	0-1	1
		8	0	19.62	19.31	19.39	0-2	1
		8	3	19.67	19.33	19.35	0-2	1
		8	7	19.65	19.30	19.38	0-2	1
		15	0	19.21	19.27	18.96	0-2	2
	64QAM	1	0	19.31	19.26	19.01	0-2	2
		1	7	19.21	19.31	18.97	0-2	2
		1	14	19.25	19.36	18.97	0-2	2
		8	0	18.31	18.33	18.04	0-3	2
		8	3	18.40	18.34	17.99	0-3	2
		8	7	18.39	18.28	18.00	0-3	2
		15	0	18.36	18.26	18.06	0-3	3
	256QAM	1	0	16.78	16.67	16.41	0-5	5
		1	7	16.89	16.81	16.41	0-5	5
		1	14	16.76	16.74	16.43	0-5	5
		8	0	16.77	16.81	16.51	0-5	5
		8	3	16.82	16.80	16.52	0-5	5
		8	7	16.85	16.78	16.43	0-5	5
		15	0	16.73	16.77	16.49	0-5	5

LTE Band 2 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18625 Ch. 1852.5 MHz	18900 Ch. 1880 MHz	19175 Ch. 1907.5 MHz		
5 MHz	QPSK	1	0	21.56	21.28	21.15	0	0
		1	12	21.58	21.53	21.42	0	0
		1	24	21.25	21.33	21.05	0	0
		12	0	20.60	20.35	20.42	0-1	0
		12	6	20.57	20.33	20.37	0-1	0
		12	11	20.40	20.28	20.26	0-1	0
		25	0	20.41	20.38	20.34	0-1	1
	16QAM	1	0	20.87	20.88	20.44	0-1	1
		1	12	20.49	20.64	20.22	0-1	1
		1	24	20.86	20.62	20.88	0-1	1
		12	0	19.66	19.44	19.33	0-2	1
		12	6	19.65	19.52	19.50	0-2	1
		12	11	19.47	19.59	19.35	0-2	1
		25	0	19.57	19.45	19.39	0-2	2
	64QAM	1	0	19.58	19.54	19.20	0-2	2
		1	12	19.75	19.76	19.50	0-2	2
		1	24	19.43	19.64	19.30	0-2	2
		12	0	18.63	18.50	18.38	0-3	2
		12	6	18.73	18.49	18.44	0-3	2
		12	11	18.59	18.50	18.22	0-3	2
		25	0	18.58	18.42	18.34	0-3	3
	256QAM	1	0	16.51	16.08	16.15	0-5	5
		1	12	16.79	16.63	16.55	0-5	5
		1	24	16.38	16.25	16.30	0-5	5
		12	0	16.52	16.10	16.12	0-5	5
		12	6	16.36	16.18	15.97	0-5	5
		12	11	16.74	16.39	16.35	0-5	5
		25	0	16.58	16.26	16.32	0-5	5

LTE Band 2 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18650 Ch. 1855 MHz	18900 Ch. 1880 MHz	19150 Ch. 1905 MHz		
10 MHz	QPSK	1	0	21.23	21.06	21.00	0	0
		1	24	21.25	21.04	20.94	0	0
		1	49	21.24	21.04	20.93	0	0
		25	0	20.28	20.37	19.98	0-1	0
		25	12	20.27	20.35	19.96	0-1	0
		25	24	20.27	20.33	19.95	0-1	0
		50	0	20.30	20.36	19.97	0-1	1
	16QAM	1	0	20.27	20.38	19.96	0-1	1
		1	24	20.27	20.35	19.99	0-1	1
		1	49	20.29	20.38	19.99	0-1	1
		25	0	19.36	19.36	19.05	0-2	1
		25	12	19.35	19.34	19.08	0-2	1
		25	24	19.35	19.38	19.02	0-2	1
		50	0	19.31	19.36	19.09	0-2	2
	64QAM	1	0	19.34	19.31	19.03	0-2	2
		1	24	19.29	19.38	19.06	0-2	2
		1	49	19.34	19.36	19.09	0-2	2
		25	0	18.41	18.36	18.15	0-3	2
		25	12	18.47	18.40	18.10	0-3	2
		25	24	18.46	18.39	18.08	0-3	2
		50	0	18.43	18.35	18.15	0-3	3
	256QAM	1	0	16.39	15.91	16.04	0-5	5
		1	24	16.68	16.43	16.43	0-5	5
		1	49	16.18	16.12	16.11	0-5	5
		25	0	16.34	15.92	15.97	0-5	5
		25	12	16.20	16.04	15.87	0-5	5
		25	24	16.57	16.28	16.22	0-5	5
		50	0	16.40	16.15	16.19	0-5	5

LTE Band 2 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18675 Ch. 1857.5 MHz	18900 Ch. 1880 MHz	19125 Ch. 1902.5 MHz		
15 MHz	QPSK	1	0	21.21	21.01	20.95	0	0
		1	36	21.24	21.00	20.88	0	0
		1	74	21.23	20.96	20.88	0	0
		36	0	20.27	20.32	19.94	0-1	0
		36	18	20.27	20.35	19.92	0-1	0
		36	39	20.24	20.29	19.93	0-1	0
		75	0	20.25	20.33	19.96	0-1	1
	16QAM	1	0	20.19	20.36	19.90	0-1	1
		1	36	20.22	20.32	19.99	0-1	1
		1	74	20.26	20.34	19.92	0-1	1
		36	0	19.31	19.36	19.04	0-2	1
		36	18	19.28	19.30	19.07	0-2	1
		36	39	19.28	19.31	18.99	0-2	1
		75	0	19.24	19.34	19.06	0-2	2
	64QAM	1	0	19.32	19.27	18.96	0-2	2
		1	36	19.23	19.38	19.03	0-2	2
		1	74	19.33	19.35	19.05	0-2	2
		36	0	18.34	18.30	18.08	0-3	2
		36	18	18.45	18.34	18.07	0-3	2
		36	39	18.41	18.36	18.06	0-3	2
		75	0	18.36	18.34	18.10	0-3	3
	256QAM	1	0	16.54	16.09	16.16	0-5	5
		1	36	16.85	16.53	16.61	0-5	5
		1	74	16.34	16.30	16.28	0-5	5
		36	0	16.46	16.11	16.13	0-5	5
		36	18	16.39	16.16	16.05	0-5	5
		36	39	16.76	16.42	16.34	0-5	5
		75	0	16.50	16.31	16.29	0-5	5

LTE Band 2 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18700 Ch. 1860 MHz	18900 Ch. 1880 MHz	19100 Ch. 1900 MHz		
20 MHz	QPSK	1	0	21.19	21.05	20.93	0	0
		1	49	21.22	20.97	20.87	0	0
		1	99	21.20	20.97	20.88	0	0
		50	0	20.24	20.30	19.91	0-1	0
		50	25	20.22	20.32	19.93	0-1	0
		50	49	20.21	20.27	19.92	0-1	0
		100	0	20.27	20.36	19.95	0-1	1
	16QAM	1	0	20.21	20.35	19.92	0-1	1
		1	49	20.22	20.35	19.97	0-1	1
		1	99	20.26	20.34	19.94	0-1	1
		50	0	19.31	19.35	19.04	0-2	1
		50	25	19.33	19.29	19.06	0-2	1
		50	49	19.32	19.33	18.94	0-2	1
		100	0	19.28	19.33	19.03	0-2	2
	64QAM	1	0	19.33	19.30	19.03	0-2	2
		1	49	19.24	19.32	19.01	0-2	2
		1	99	19.26	19.36	19.02	0-2	2
		50	0	18.34	18.34	18.07	0-3	2
		50	25	18.42	18.39	18.02	0-3	2
		50	49	18.42	18.31	18.05	0-3	2
		100	0	18.41	18.34	18.12	0-3	3
	256QAM	1	0	16.26	16.02	15.96	0-5	5
		1	49	16.81	16.64	16.51	0-5	5
		1	99	16.44	16.24	16.39	0-5	5
		50	0	16.35	16.14	16.31	0-5	5
		50	25	16.52	16.42	16.48	0-5	5
		50	49	16.46	16.35	16.41	0-5	5
		100	0	16.51	16.40	16.45	0-5	5

[LTE Band 4 _Main #2 Ant. Conducted Power]

LTE Band 4 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19957 Ch. 1710.7 MHz	20175 Ch. 1732.5 MHz	20393 Ch. 1754.3 MHz		
1.4 MHz	QPSK	1	0	24.07	24.13	24.17	0	0
		1	3	24.23	24.25	24.29	0	0
		1	5	24.07	24.21	24.07	0	0
		3	0	24.15	24.20	24.19	0	0
		3	1	24.15	24.25	24.21	0	0
		3	3	24.20	24.15	24.18	0	0
		6	0	23.22	23.32	23.18	0-1	1
	16QAM	1	0	23.24	23.41	23.37	0-1	1
		1	3	23.65	23.68	23.54	0-1	1
		1	5	23.72	23.69	23.37	0-1	1
		3	0	23.23	23.29	23.17	0-1	1
		3	1	23.15	23.29	23.22	0-1	1
		3	3	23.29	23.30	23.29	0-1	1
		6	0	22.39	22.14	22.26	0-2	2
	64QAM	1	0	22.38	22.35	22.40	0-2	2
		1	3	22.49	22.49	22.43	0-2	2
		1	5	22.46	21.90	22.37	0-2	2
		3	0	22.35	21.92	22.26	0-2	2
		3	1	22.41	21.60	22.36	0-2	2
		3	3	22.30	22.56	22.32	0-2	2
		6	0	21.26	21.32	21.25	0-3	3
	256QAM	1	0	19.05	19.57	19.41	0-5	5
		1	3	19.39	19.44	19.60	0-5	5
		1	5	19.35	19.56	19.25	0-5	5
		3	0	19.35	19.46	19.34	0-5	5
		3	1	19.40	19.48	19.92	0-5	5
		3	3	19.26	19.36	19.23	0-5	5
		6	0	19.20	19.20	19.24	0-5	5

LTE Band 4 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19965 Ch. 1711.5 MHz	20175 Ch. 1732.5 MHz	20385 Ch. 1753.5 MHz		
3 MHz	QPSK	1	0	24.27	24.34	24.17	0	0
		1	7	24.28	24.24	24.22	0	0
		1	14	24.17	24.14	24.22	0	0
		8	0	23.25	23.38	23.27	0-1	0
		8	3	23.50	23.44	23.35	0-1	0
		8	7	23.34	23.33	23.32	0-1	0
		15	0	23.30	23.46	23.26	0-1	1
	16QAM	1	0	23.62	23.57	23.60	0-1	1
		1	7	23.62	23.64	23.58	0-1	1
		1	14	23.53	23.53	23.70	0-1	1
		8	0	22.39	22.51	22.31	0-2	1
		8	3	22.44	22.46	22.35	0-2	1
		8	7	22.33	22.38	22.26	0-2	1
		15	0	22.32	22.38	22.24	0-2	2
	64QAM	1	0	22.64	22.67	22.42	0-2	2
		1	7	22.50	22.47	22.39	0-2	2
		1	14	22.55	22.55	22.40	0-2	2
		8	0	21.37	21.48	21.30	0-3	2
		8	3	21.41	21.38	21.27	0-3	2
		8	7	21.42	21.39	21.32	0-3	2
		15	0	21.36	21.47	21.28	0-3	3
	256QAM	1	0	19.41	19.39	19.24	0-5	5
		1	7	19.36	19.59	19.42	0-5	5
		1	14	19.24	19.48	19.28	0-5	5
		8	0	19.33	19.31	19.28	0-5	5
		8	3	19.40	19.36	19.32	0-5	5
		8	7	19.33	19.41	19.31	0-5	5
		15	0	19.30	19.34	19.30	0-5	5

LTE Band 4 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19975 Ch. 1712.5 MHz	20175 Ch. 1732.5 MHz	20375 Ch. 1752.5 MHz		
5 MHz	QPSK	1	0	24.16	24.22	24.16	0	0
		1	12	24.27	24.43	24.40	0	0
		1	24	24.07	24.17	24.09	0	0
		12	0	23.26	22.89	23.34	0-1	0
		12	6	23.43	23.39	23.36	0-1	0
		12	11	23.36	23.40	23.21	0-1	0
		25	0	23.37	23.33	23.31	0-1	1
	16QAM	1	0	23.30	23.76	23.38	0-1	1
		1	12	23.75	23.71	23.63	0-1	1
		1	24	23.66	23.47	23.62	0-1	1
		12	0	22.30	22.27	22.32	0-2	1
		12	6	22.41	22.49	22.34	0-2	1
		12	11	22.43	22.40	22.21	0-2	1
		25	0	22.35	22.41	22.34	0-2	2
	64QAM	1	0	22.40	22.48	22.56	0-2	2
		1	12	22.48	22.53	22.54	0-2	2
		1	24	22.41	22.27	22.35	0-2	2
		12	0	21.36	21.07	21.35	0-3	2
		12	6	21.45	21.50	21.39	0-3	2
		12	11	21.39	21.38	21.34	0-3	2
		25	0	21.39	21.43	21.34	0-3	3
	256QAM	1	0	19.20	19.43	19.28	0-5	5
		1	12	19.35	19.50	19.44	0-5	5
		1	24	19.22	19.46	19.26	0-5	5
		12	0	19.23	19.31	19.33	0-5	5
		12	6	19.40	19.46	19.30	0-5	5
		12	11	19.32	19.27	19.33	0-5	5
		25	0	19.30	19.39	19.30	0-5	5

LTE Band 4 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20000 Ch. 1715 MHz	20175 Ch. 1732.5 MHz	20350 Ch. 1750 MHz		
10 MHz	QPSK	1	0	23.97	23.88	23.86	0	0
		1	24	24.20	24.19	24.17	0	0
		1	49	23.95	23.83	23.88	0	0
		25	0	23.21	23.22	23.11	0-1	0
		25	12	23.45	23.39	23.29	0-1	0
		25	24	23.28	23.32	23.24	0-1	0
		50	0	23.35	23.31	23.10	0-1	1
	16QAM	1	0	23.26	23.45	23.30	0-1	1
		1	24	23.49	23.76	23.57	0-1	1
		1	49	23.25	23.29	23.29	0-1	1
		25	0	22.20	22.34	22.12	0-2	1
		25	12	22.47	22.46	22.20	0-2	1
		25	24	22.33	22.40	22.25	0-2	1
		50	0	22.39	22.39	22.20	0-2	2
	64QAM	1	0	22.08	22.16	22.14	0-2	2
		1	24	22.43	22.55	22.57	0-2	2
		1	49	22.25	22.31	22.16	0-2	2
		25	0	21.25	21.34	21.17	0-3	2
		25	12	21.47	21.47	21.35	0-3	2
		25	24	21.31	21.35	21.19	0-3	2
		50	0	21.34	21.38	21.24	0-3	3
	256QAM	1	0	19.05	19.07	19.02	0-5	5
		1	24	19.44	19.44	19.43	0-5	5
		1	49	19.30	19.19	19.24	0-5	5
		25	0	19.22	19.23	19.16	0-5	5
		25	12	19.41	19.40	19.30	0-5	5
		25	24	19.28	19.33	19.21	0-5	5
		50	0	19.31	19.31	19.15	0-5	5

LTE Band 4 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20025 Ch. 1717.5 MHz	20175 Ch. 1732.5 MHz	20325 Ch. 1747.5 MHz		
15 MHz	QPSK	1	0	23.85	23.94	23.92	0	0
		1	36	24.10	23.99	23.98	0	0
		1	74	24.13	24.08	24.05	0	0
		36	0	23.05	23.07	23.06	0-1	0
		36	18	23.22	23.38	23.13	0-1	0
		36	39	23.26	23.25	23.17	0-1	0
		75	0	23.21	23.14	23.08	0-1	1
	16QAM	1	0	23.29	23.30	23.32	0-1	1
		1	36	23.44	23.51	23.34	0-1	1
		1	74	23.43	23.45	23.21	0-1	1
		36	0	22.05	22.22	22.08	0-2	1
		36	18	22.27	22.34	22.23	0-2	1
		36	39	22.24	22.27	22.25	0-2	1
		75	0	22.21	22.27	22.13	0-2	2
	64QAM	1	0	22.05	22.11	22.07	0-2	2
		1	36	22.20	22.36	22.28	0-2	2
		1	74	22.38	22.28	22.27	0-2	2
		36	0	21.11	21.15	21.11	0-3	2
		36	18	21.27	21.30	21.27	0-3	2
		36	39	21.23	21.30	21.21	0-3	2
		75	0	21.24	21.18	21.15	0-3	3
	256QAM	1	0	19.07	19.00	19.02	0-5	5
		1	36	19.25	19.34	19.32	0-5	5
		1	74	19.28	19.30	19.21	0-5	5
		36	0	19.14	19.18	19.09	0-5	5
		36	18	19.34	19.30	19.19	0-5	5
		36	39	19.31	19.35	19.22	0-5	5
		75	0	19.27	19.17	19.11	0-5	5

LTE Band 4 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20050 Ch. 1720 MHz	20175 Ch. 1732.5 MHz	20300 Ch. 1745 MHz		
20 MHz	QPSK	1	0	23.72	23.82	23.78	0	0
		1	49	24.05	24.12	24.01	0	0
		1	99	23.96	23.95	23.94	0	0
		50	0	23.01	23.10	23.03	0-1	0
		50	25	23.26	23.35	23.22	0-1	0
		50	49	23.25	23.28	23.16	0-1	0
		100	0	23.14	23.07	23.18	0-1	1
	16QAM	1	0	23.13	23.24	23.15	0-1	1
		1	49	23.32	23.37	23.50	0-1	1
		1	99	23.23	23.26	23.11	0-1	1
		50	0	21.97	22.09	22.01	0-2	1
		50	25	22.15	22.35	22.30	0-2	1
		50	49	22.22	22.27	22.26	0-2	1
		100	0	22.22	22.14	22.26	0-2	2
	64QAM	1	0	21.98	22.07	21.93	0-2	2
		1	49	22.36	22.29	22.35	0-2	2
		1	99	22.07	22.20	22.12	0-2	2
		50	0	21.04	21.19	21.04	0-3	2
		50	25	21.29	21.27	21.27	0-3	2
		50	49	21.25	21.29	21.27	0-3	2
		100	0	21.18	21.17	21.20	0-3	3
	256QAM	1	0	19.01	18.97	18.92	0-5	5
		1	49	19.30	19.39	19.30	0-5	5
		1	99	19.25	19.16	19.08	0-5	5
		50	0	19.06	19.07	19.04	0-5	5
		50	25	19.29	19.31	19.28	0-5	5
		50	49	19.24	19.28	19.18	0-5	5
		100	0	19.23	19.21	19.15	0-5	5

[LTE Band 4_Sub #1 Ant. Conducted Power]

LTE Band 4 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19957 Ch. 1710.7 MHz	20175 Ch. 1732.5 MHz	20393 Ch. 1754.3 MHz		
1.4 MHz	QPSK	1	0	21.67	21.72	21.28	0	0
		1	3	21.64	21.76	21.32	0	0
		1	5	21.64	21.71	21.29	0	0
		3	0	21.71	21.72	21.32	0	0
		3	1	21.72	21.74	21.28	0	0
		3	3	21.68	21.75	21.34	0	0
		6	0	21.65	21.71	21.33	0-1	1
	16QAM	1	0	20.91	21.07	20.63	0-1	1
		1	3	20.93	21.12	20.68	0-1	1
		1	5	20.88	21.11	20.64	0-1	1
		3	0	20.75	20.87	20.31	0-1	1
		3	1	20.80	20.81	20.32	0-1	1
		3	3	20.74	20.82	20.31	0-1	1
		6	0	20.75	20.81	20.29	0-2	2
	64QAM	1	0	19.87	20.00	19.57	0-2	2
		1	3	19.90	20.01	19.60	0-2	2
		1	5	19.85	20.04	19.61	0-2	2
		3	0	19.89	20.02	19.50	0-2	2
		3	1	19.96	20.08	19.47	0-2	2
		3	3	19.91	20.07	19.49	0-2	2
		6	0	19.96	19.84	19.53	0-3	3
	256QAM	1	0	16.80	16.58	16.64	0-5	5
		1	3	17.17	16.64	16.41	0-5	5
		1	5	16.76	16.54	16.72	0-5	5
		3	0	16.90	16.28	16.82	0-5	5
		3	1	16.55	16.76	16.29	0-5	5
		3	3	17.11	16.69	16.50	0-5	5
		6	0	16.97	16.90	16.63	0-5	5

LTE Band 4 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19965 Ch. 1711.5 MHz	20175 Ch. 1732.5 MHz	20385 Ch. 1753.5 MHz		
3 MHz	QPSK	1	0	21.64	21.82	21.37	0	0
		1	7	21.69	21.82	21.42	0	0
		1	14	21.70	21.80	21.39	0	0
		8	0	20.83	20.91	20.41	0-1	0
		8	3	20.84	20.85	20.44	0-1	0
		8	7	20.79	20.88	20.39	0-1	0
		15	0	20.82	20.91	20.43	0-1	1
	16QAM	1	0	21.11	21.08	20.71	0-1	1
		1	7	21.16	21.13	20.75	0-1	1
		1	14	21.09	21.07	20.70	0-1	1
		8	0	19.93	20.01	19.49	0-2	1
		8	3	19.91	19.97	19.53	0-2	1
		8	7	19.90	20.02	19.50	0-2	1
		15	0	19.94	19.97	19.51	0-2	2
	64QAM	1	0	19.98	20.12	19.57	0-2	2
		1	7	20.03	20.14	19.62	0-2	2
		1	14	19.96	20.06	19.62	0-2	2
		8	0	18.99	18.94	18.54	0-3	2
		8	3	18.94	18.92	18.52	0-3	2
		8	7	18.98	18.94	18.49	0-3	2
		15	0	18.97	18.93	18.50	0-3	3
	256QAM	1	0	16.87	16.45	16.48	0-5	5
		1	7	16.98	16.51	16.49	0-5	5
		1	14	16.65	16.36	16.71	0-5	5
		8	0	16.72	16.24	16.64	0-5	5
		8	3	16.54	16.74	16.36	0-5	5
		8	7	17.10	16.73	16.59	0-5	5
		15	0	16.80	16.85	16.45	0-5	5

LTE Band 4 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19975 Ch. 1712.5 MHz	20175 Ch. 1732.5 MHz	20375 Ch. 1752.5 MHz		
5 MHz	QPSK	1	0	21.83	21.75	21.40	0	0
		1	12	21.81	21.71	21.35	0	0
		1	24	21.83	21.76	21.39	0	0
		12	0	21.04	20.96	20.45	0-1	0
		12	6	21.08	20.95	20.50	0-1	0
		12	11	21.09	20.96	20.49	0-1	0
		25	0	21.05	20.96	20.53	0-1	1
	16QAM	1	0	21.07	20.93	20.46	0-1	1
		1	12	21.06	20.95	20.49	0-1	1
		1	24	21.03	20.91	20.45	0-1	1
		12	0	20.13	19.82	19.57	0-2	1
		12	6	20.12	19.84	19.53	0-2	1
		12	11	20.07	19.89	19.52	0-2	1
		25	0	20.08	19.88	19.51	0-2	2
	64QAM	1	0	20.11	19.85	19.53	0-2	2
		1	12	20.08	19.87	19.54	0-2	2
		1	24	20.07	19.85	19.50	0-2	2
		12	0	19.06	19.05	18.46	0-3	2
		12	6	19.03	19.00	18.46	0-3	2
		12	11	19.10	19.05	18.48	0-3	2
		25	0	19.03	19.03	18.41	0-3	3
	256QAM	1	0	16.69	16.46	16.36	0-5	5
		1	12	16.97	16.83	16.71	0-5	5
		1	24	16.58	16.52	16.47	0-5	5
		12	0	16.70	16.38	16.32	0-5	5
		12	6	16.55	16.49	16.19	0-5	5
		12	11	16.89	16.61	16.56	0-5	5
		25	0	16.78	16.58	16.48	0-5	5

LTE Band 4 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20000 Ch. 1715 MHz	20175 Ch. 1732.5 MHz	20350 Ch. 1750 MHz		
10 MHz	QPSK	1	0	21.45	21.46	21.19	0	0
		1	24	21.45	21.46	21.20	0	0
		1	49	21.48	21.43	21.17	0	0
		25	0	20.92	20.74	20.40	0-1	0
		25	12	20.92	20.79	20.45	0-1	0
		25	24	20.92	20.73	20.46	0-1	0
		50	0	20.94	20.73	20.45	0-1	1
	16QAM	1	0	20.98	20.76	20.45	0-1	1
		1	24	20.93	20.73	20.43	0-1	1
		1	49	20.92	20.73	20.44	0-1	1
		25	0	20.04	19.80	19.50	0-2	1
		25	12	20.07	19.81	19.51	0-2	1
		25	24	20.00	19.83	19.49	0-2	1
		50	0	20.04	19.79	19.51	0-2	2
	64QAM	1	0	20.04	19.85	19.50	0-2	2
		1	24	20.03	19.78	19.54	0-2	2
		1	49	20.02	19.82	19.52	0-2	2
		25	0	18.87	18.83	18.42	0-3	2
		25	12	18.89	18.80	18.43	0-3	2
		25	24	18.88	18.82	18.42	0-3	2
		50	0	18.84	18.82	18.42	0-3	3
	256QAM	1	0	16.56	16.31	16.21	0-5	5
		1	24	16.86	16.65	16.55	0-5	5
		1	49	16.48	16.33	16.27	0-5	5
		25	0	16.53	16.19	16.12	0-5	5
		25	12	16.43	16.32	16.03	0-5	5
		25	24	16.69	16.44	16.46	0-5	5
		50	0	16.59	16.48	16.35	0-5	5

LTE Band 4 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20025 Ch. 1717.5 MHz	20175 Ch. 1732.5 MHz	20325 Ch. 1747.5 MHz		
15 MHz	QPSK	1	0	21.48	21.37	21.52	0	0
		1	36	21.48	21.35	21.56	0	0
		1	74	21.50	21.37	21.55	0	0
		36	0	20.81	20.60	20.57	0-1	0
		36	18	20.80	20.64	20.59	0-1	0
		36	39	20.76	20.65	20.57	0-1	0
		75	0	20.83	20.66	20.57	0-1	1
	16QAM	1	0	20.78	20.67	20.58	0-1	1
		1	36	20.81	20.66	20.54	0-1	1
		1	74	20.78	20.65	20.56	0-1	1
		36	0	19.92	19.61	19.52	0-2	1
		36	18	19.93	19.66	19.60	0-2	1
		36	39	19.89	19.67	19.59	0-2	1
		75	0	19.94	19.61	19.52	0-2	2
	64QAM	1	0	19.96	19.65	19.59	0-2	2
		1	36	19.91	19.67	19.53	0-2	2
		1	74	19.88	19.67	19.57	0-2	2
		36	0	18.88	18.70	18.64	0-3	2
		36	18	18.88	18.71	18.68	0-3	2
		36	39	18.90	18.69	18.64	0-3	2
		75	0	18.89	18.67	18.63	0-3	3
	256QAM	1	0	16.70	16.34	16.35	0-5	5
		1	36	16.83	16.58	16.53	0-5	5
		1	74	16.44	16.53	16.39	0-5	5
		36	0	16.62	16.20	16.10	0-5	5
		36	18	16.54	16.49	16.05	0-5	5
		36	39	16.89	16.56	16.54	0-5	5
		75	0	16.72	16.60	16.55	0-5	5

LTE Band 4 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20050 Ch. 1720 MHz	20175 Ch. 1732.5 MHz	20300 Ch. 1745 MHz		
20 MHz	QPSK	1	0	21.42	21.14	21.59	0	0
		1	49	21.37	21.15	21.58	0	0
		1	99	21.37	21.13	21.55	0	0
		50	0	20.82	20.51	20.70	0-1	0
		50	25	20.84	20.54	20.73	0-1	0
		50	49	20.87	20.54	20.78	0-1	0
		100	0	20.84	20.52	20.76	0-1	1
	16QAM	1	0	20.87	20.51	20.77	0-1	1
		1	49	20.82	20.55	20.74	0-1	1
		1	99	20.83	20.57	20.76	0-1	1
		50	0	19.82	19.61	19.69	0-2	1
		50	25	19.87	19.58	19.68	0-2	1
		50	49	19.84	19.57	19.68	0-2	1
		100	0	19.83	19.60	19.67	0-2	2
	64QAM	1	0	19.85	19.55	19.67	0-2	2
		1	49	19.89	19.56	19.66	0-2	2
		1	99	19.87	19.56	19.71	0-2	2
		50	0	18.78	18.46	18.77	0-3	2
		50	25	18.76	18.47	18.77	0-3	2
		50	49	18.74	18.47	18.75	0-3	2
		100	0	18.76	18.50	18.71	0-3	3
	256QAM	1	0	16.72	16.44	16.52	0-5	5
		1	49	16.97	16.58	16.59	0-5	5
		1	99	16.64	16.44	16.56	0-5	5
		50	0	16.55	16.31	16.54	0-5	5
		50	25	16.57	16.58	16.39	0-5	5
		50	49	17.06	16.70	16.63	0-5	5
		100	0	16.63	16.79	16.47	0-5	5

[LTE Band 5 Conducted Power]

LTE Band 5 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20407 Ch. 824.7 MHz	20525 Ch. 836.5 MHz	20643 Ch. 848.3 MHz		
1.4 MHz	QPSK	1	0	23.91	23.79	23.70	0	0
		1	3	24.04	23.81	23.86	0	0
		1	5	23.95	23.77	23.66	0	0
		3	0	23.92	23.78	23.74	0	0
		3	1	23.92	23.87	23.65	0	0
		3	3	23.82	23.75	23.72	0	0
	16QAM	6	0	22.93	22.83	22.79	0-1	1
		1	0	23.14	23.15	23.05	0-1	1
		1	3	23.19	23.26	23.03	0-1	1
		1	5	23.19	23.29	23.27	0-1	1
		3	0	23.12	22.97	22.94	0-1	1
		3	1	23.08	23.15	23.02	0-1	1
	64QAM	3	3	22.99	22.98	22.87	0-1	1
		6	0	21.98	22.18	21.91	0-2	2
		1	0	22.09	22.04	21.95	0-2	2
		1	3	22.15	22.07	22.02	0-2	2
		1	5	22.11	21.99	21.96	0-2	2
		3	0	21.87	21.99	22.05	0-2	2
	256QAM	3	1	22.01	22.03	21.94	0-2	2
		3	3	22.05	21.86	21.94	0-2	2
		6	0	20.94	21.00	21.04	0-3	3
		1	0	19.08	19.03	18.96	0-5	5
		1	3	18.79	19.09	18.71	0-5	5
		1	5	19.35	18.97	18.79	0-5	5
		3	0	18.98	19.13	19.06	0-5	5
		3	1	18.87	19.01	18.97	0-5	5
		3	3	19.10	19.12	18.91	0-5	5
		6	0	19.20	18.88	18.82	0-5	5

LTE Band 5 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20415 Ch. 825.5 MHz	20525 Ch. 836.5 MHz	20635 Ch. 847.5 MHz		
3 MHz	QPSK	1	0	23.98	23.90	23.78	0	0
		1	7	24.05	24.00	23.80	0	0
		1	14	23.92	23.84	23.79	0	0
		8	0	23.20	22.88	22.83	0-1	0
		8	3	23.20	22.94	22.92	0-1	0
		8	7	23.06	23.00	22.93	0-1	0
		15	0	23.09	22.86	22.88	0-1	1
	16QAM	1	0	23.40	23.26	23.18	0-1	1
		1	7	23.05	23.16	23.16	0-1	1
		1	14	23.31	23.26	23.06	0-1	1
		8	0	22.09	21.93	21.90	0-2	1
		8	3	22.15	21.92	21.97	0-2	1
		8	7	22.03	22.06	21.95	0-2	1
		15	0	22.15	21.83	21.85	0-2	2
	64QAM	1	0	22.08	21.91	21.94	0-2	2
		1	7	22.13	22.08	22.08	0-2	2
		1	14	22.22	22.10	21.99	0-2	2
		8	0	21.11	20.95	20.89	0-3	2
		8	3	21.25	20.99	21.04	0-3	2
		8	7	21.08	20.94	21.01	0-3	2
		15	0	21.10	20.86	20.96	0-3	3
	256QAM	1	0	19.02	19.05	18.85	0-5	5
		1	7	19.04	19.05	18.99	0-5	5
		1	14	19.17	18.91	19.04	0-5	5
		8	0	19.15	19.00	18.92	0-5	5
		8	3	19.13	18.96	18.93	0-5	5
		8	7	19.15	18.91	18.84	0-5	5
		15	0	19.10	18.96	18.89	0-5	5

LTE Band 5 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20425 Ch. 826.5 MHz	20525 Ch. 836.5 MHz	20625 Ch. 846.5 MHz		
5 MHz	QPSK	1	0	23.85	23.85	23.85	0	0
		1	12	23.96	23.86	24.12	0	0
		1	24	23.89	23.82	23.88	0	0
		12	0	23.04	22.92	22.90	0-1	0
		12	6	23.09	22.98	22.95	0-1	0
		12	11	23.04	22.92	22.99	0-1	0
		25	0	23.05	22.89	22.84	0-1	1
	16QAM	1	0	23.14	23.11	23.31	0-1	1
		1	12	23.47	23.12	23.20	0-1	1
		1	24	23.36	23.20	23.17	0-1	1
		12	0	22.10	21.95	21.80	0-2	1
		12	6	22.14	22.08	22.07	0-2	1
		12	11	22.06	22.02	21.93	0-2	1
		25	0	22.11	21.92	21.94	0-2	2
	64QAM	1	0	22.23	21.95	21.95	0-2	2
		1	12	22.21	22.22	22.01	0-2	2
		1	24	22.25	22.11	22.08	0-2	2
		12	0	21.06	20.93	20.83	0-3	2
		12	6	21.23	20.95	21.08	0-3	2
		12	11	21.13	20.94	20.92	0-3	2
		25	0	21.05	20.88	20.95	0-3	3
	256QAM	1	0	19.08	18.83	18.85	0-5	5
		1	12	19.08	18.95	18.97	0-5	5
		1	24	19.15	19.05	18.94	0-5	5
		12	0	19.12	18.95	18.85	0-5	5
		12	6	19.07	18.98	18.92	0-5	5
		12	11	19.00	19.04	18.84	0-5	5
		25	0	19.04	18.86	18.89	0-5	5

LTE Band 5 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				20525 Ch. 836.5 MHz		
10 MHz	QPSK	1	0	24.02	0	0
		1	24	23.87	0	0
		1	49	23.91	0	0
		25	0	22.99	0-1	0
		25	12	22.91	0-1	0
		25	24	22.91	0-1	0
		50	0	22.85	0-1	1
	16QAM	1	0	23.33	0-1	1
		1	24	23.14	0-1	1
		1	49	23.19	0-1	1
		25	0	21.87	0-2	1
		25	12	21.88	0-2	1
		25	24	21.95	0-2	1
		50	0	21.81	0-2	2
	64QAM	1	0	22.20	0-2	2
		1	24	22.07	0-2	2
		1	49	22.16	0-2	2
		25	0	21.02	0-3	2
		25	12	20.93	0-3	2
		25	24	20.99	0-3	2
		50	0	20.86	0-3	3
	256QAM	1	0	18.79	0-5	5
		1	24	19.06	0-5	5
		1	49	18.77	0-5	5
		25	0	18.94	0-5	5
		25	12	18.97	0-5	5
		25	24	18.86	0-5	5
		50	0	18.86	0-5	5

[LTE Band 7 Conducted Power]

LTE Band 7 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20775 Ch. 2502.5 MHz	21100 Ch. 2535 MHz	21425 Ch. 2567.5 MHz		
5 MHz	QPSK	1	0	23.45	23.34	23.50	0	0
		1	12	23.55	23.33	23.47	0	0
		1	24	23.60	23.35	23.49	0	0
		12	0	22.65	22.40	22.56	0-1	0
		12	6	22.68	22.45	22.60	0-1	0
		12	11	22.61	22.47	22.55	0-1	0
		25	0	22.66	22.44	22.50	0-1	1
	16QAM	1	0	22.80	22.76	22.85	0-1	1
		1	12	22.64	22.86	22.87	0-1	1
		1	24	23.15	22.97	23.14	0-1	1
		12	0	21.74	21.45	21.49	0-2	1
		12	6	21.73	21.49	21.56	0-2	1
		12	11	21.74	21.41	21.62	0-2	1
		25	0	21.73	21.48	21.59	0-2	2
	64QAM	1	0	21.78	21.66	21.93	0-2	2
		1	12	21.77	21.56	21.64	0-2	2
		1	24	21.92	21.61	21.69	0-2	2
		12	0	20.79	20.55	20.60	0-3	2
		12	6	20.87	20.50	20.54	0-3	2
		12	11	20.72	20.53	20.60	0-3	2
		25	0	20.68	20.47	20.61	0-3	3
	256QAM	1	0	18.91	18.77	18.95	0-5	5
		1	12	19.06	18.79	18.73	0-5	5
		1	24	19.00	18.55	18.81	0-5	5
		12	0	18.94	18.68	18.76	0-5	5
		12	6	18.97	18.73	18.79	0-5	5
		12	11	18.99	18.65	18.76	0-5	5
		25	0	18.91	18.64	18.72	0-5	5

LTE Band 7_ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20800 Ch. 2505 MHz	21100 Ch. 2535 MHz	21400 Ch. 2565 MHz		
10 MHz	QPSK	1	0	23.59	23.30	23.35	0	0
		1	24	23.67	23.38	23.38	0	0
		1	49	23.59	23.26	23.41	0	0
		25	0	22.67	22.51	22.45	0-1	0
		25	12	22.60	22.45	22.42	0-1	0
		25	24	22.57	22.39	22.53	0-1	0
		50	0	22.60	22.43	22.36	0-1	1
	16QAM	1	0	23.14	22.98	22.95	0-1	1
		1	24	23.25	22.89	23.07	0-1	1
		1	49	22.75	22.66	22.75	0-1	1
		25	0	21.74	21.42	21.55	0-2	1
		25	12	21.69	21.50	21.51	0-2	1
		25	24	21.68	21.45	21.62	0-2	1
		50	0	21.59	21.43	21.50	0-2	2
	64QAM	1	0	21.53	21.81	21.55	0-2	2
		1	24	21.90	21.60	21.81	0-2	2
		1	49	21.78	21.80	21.81	0-2	2
		25	0	20.70	20.50	20.55	0-3	2
		25	12	20.63	20.53	20.55	0-3	2
		25	24	20.55	20.51	20.62	0-3	2
		50	0	20.56	20.45	20.50	0-3	3
	256QAM	1	0	18.78	18.58	18.60	0-5	5
		1	24	19.09	18.79	18.94	0-5	5
		1	49	18.67	18.53	18.61	0-5	5
		25	0	18.87	18.61	18.64	0-5	5
		25	12	18.94	18.67	18.58	0-5	5
		25	24	18.76	18.57	18.70	0-5	5
		50	0	18.78	18.64	18.61	0-5	5

LTE Band 7 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20825 Ch. 2507.5 MHz	21100 Ch. 2535 MHz	21375 Ch. 2562.5 MHz		
15 MHz	QPSK	1	0	23.32	23.29	23.35	0	0
		1	36	23.38	23.04	23.37	0	0
		1	74	23.28	23.15	23.27	0	0
		36	0	22.66	22.43	22.37	0-1	0
		36	18	22.60	22.37	22.52	0-1	0
		36	39	22.45	22.29	22.42	0-1	0
		75	0	22.52	22.34	22.40	0-1	1
	16QAM	1	0	23.15	22.74	22.87	0-1	1
		1	36	22.59	22.55	22.68	0-1	1
		1	74	22.74	22.43	22.59	0-1	1
		36	0	21.60	21.40	21.35	0-2	1
		36	18	21.62	21.37	21.53	0-2	1
		36	39	21.51	21.29	21.50	0-2	1
		75	0	21.60	21.35	21.46	0-2	2
	64QAM	1	0	21.79	21.41	21.41	0-2	2
		1	36	21.83	21.62	21.33	0-2	2
		1	74	21.60	21.44	21.58	0-2	2
		36	0	20.69	20.46	20.43	0-3	2
		36	18	20.70	20.39	20.55	0-3	2
		36	39	20.56	20.36	20.44	0-3	2
		75	0	20.56	20.34	20.44	0-3	3
	256QAM	1	0	18.61	18.47	18.44	0-5	5
		1	36	18.66	18.63	18.51	0-5	5
		1	74	18.47	18.36	18.61	0-5	5
		36	0	18.69	18.52	18.55	0-5	5
		36	18	18.80	18.55	18.66	0-5	5
		36	39	18.70	18.49	18.59	0-5	5
		75	0	18.77	18.52	18.61	0-5	5

LTE Band 7 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20850 Ch. 2510 MHz	21100 Ch. 2535 MHz	21350 Ch. 2560 MHz		
20 MHz	QPSK	1	0	23.42	23.30	23.36	0	0
		1	49	23.33	23.13	23.28	0	0
		1	99	23.31	23.13	23.33	0	0
		50	0	22.65	22.35	22.37	0-1	0
		50	25	22.45	22.38	22.37	0-1	0
		50	49	22.38	22.29	22.42	0-1	0
		100	0	22.46	22.28	22.27	0-1	1
	16QAM	1	0	23.04	22.70	22.83	0-1	1
		1	49	22.76	22.56	22.76	0-1	1
		1	99	22.62	22.53	22.59	0-1	1
		50	0	21.57	21.40	21.33	0-2	1
		50	25	21.52	21.41	21.40	0-2	1
		50	49	21.38	21.33	21.42	0-2	1
		100	0	21.38	21.26	21.30	0-2	2
	64QAM	1	0	21.64	21.55	21.60	0-2	2
		1	49	21.77	21.53	21.62	0-2	2
		1	99	21.54	21.37	21.58	0-2	2
		50	0	20.65	20.39	20.39	0-3	2
		50	25	20.48	20.38	20.45	0-3	2
		50	49	20.40	20.24	20.47	0-3	2
		100	0	20.47	20.27	20.38	0-3	3
	256QAM	1	0	18.54	18.45	18.41	0-5	5
		1	49	18.81	18.45	18.52	0-5	5
		1	99	18.38	18.33	18.19	0-5	5
		50	0	18.65	18.54	18.45	0-5	5
		50	25	18.70	18.48	18.50	0-5	5
		50	49	18.58	18.46	18.47	0-5	5
		100	0	18.58	18.47	18.40	0-5	5

[LTE Band 12 Conducted Power]

LTE Band 12 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23017 Ch. 699.7 MHz	23095 Ch. 707.5 MHz	23173 Ch. 715.3 MHz		
1.4 MHz	QPSK	1	0	24.00	23.96	24.01	0	0
		1	3	24.03	24.04	24.08	0	0
		1	5	23.99	23.96	23.97	0	0
		3	0	24.00	24.01	24.02	0	0
		3	1	24.04	24.06	24.00	0	0
		3	3	23.99	24.02	24.04	0	0
		6	0	23.15	23.18	23.09	0-1	1
	16QAM	1	0	23.34	23.45	23.39	0-1	1
		1	3	23.38	23.42	23.49	0-1	1
		1	5	23.42	23.29	23.35	0-1	1
		3	0	23.24	23.15	23.16	0-1	1
		3	1	23.16	23.30	23.22	0-1	1
		3	3	23.24	23.24	23.29	0-1	1
		6	0	22.11	22.50	22.23	0-2	2
	64QAM	1	0	22.20	22.22	22.17	0-2	2
		1	3	22.50	22.27	22.26	0-2	2
		1	5	22.45	22.20	22.28	0-2	2
		3	0	22.25	22.13	22.03	0-2	2
		3	1	22.33	22.36	22.15	0-2	2
		3	3	22.30	22.22	22.22	0-2	2
		6	0	21.22	21.18	21.15	0-3	3
	256QAM	1	0	19.26	19.26	19.26	0-5	5
		1	3	19.04	19.27	19.28	0-5	5
		1	5	19.16	19.54	19.30	0-5	5
		3	0	19.20	19.29	19.14	0-5	5
		3	1	19.22	19.28	19.13	0-5	5
		3	3	19.06	19.19	19.23	0-5	5
		6	0	19.17	19.12	19.02	0-5	5

LTE Band 12 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23025 Ch. 700.5 MHz	23095 Ch. 707.5 MHz	23165 Ch. 714.5 MHz		
3 MHz	QPSK	1	0	24.06	24.14	24.18	0	0
		1	7	24.07	24.20	24.43	0	0
		1	14	24.04	24.13	24.07	0	0
		8	0	23.12	23.19	23.17	0-1	0
		8	3	23.28	23.39	23.32	0-1	0
		8	7	23.25	23.21	23.14	0-1	0
		15	0	23.19	23.26	23.25	0-1	1
	16QAM	1	0	23.46	23.49	23.37	0-1	1
		1	7	23.41	23.44	23.42	0-1	1
		1	14	23.53	23.36	23.42	0-1	1
		8	0	22.24	22.22	22.24	0-2	1
		8	3	22.28	22.38	22.27	0-2	1
		8	7	22.29	22.33	22.23	0-2	1
		15	0	22.25	22.26	22.31	0-2	2
	64QAM	1	0	22.32	22.32	22.10	0-2	2
		1	7	22.07	22.20	22.22	0-2	2
		1	14	22.32	22.33	22.44	0-2	2
		8	0	21.16	21.21	21.24	0-3	2
		8	3	21.47	21.33	21.42	0-3	2
		8	7	21.24	21.29	21.26	0-3	2
		15	0	21.26	21.29	21.31	0-3	3
	256QAM	1	0	19.29	19.17	19.22	0-5	5
		1	7	19.27	19.15	19.29	0-5	5
		1	14	19.33	19.49	19.27	0-5	5
		8	0	19.27	19.20	19.23	0-5	5
		8	3	19.23	19.31	19.28	0-5	5
		8	7	19.09	19.17	19.21	0-5	5
		15	0	19.28	19.28	19.23	0-5	5

LTE Band 12 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23035 Ch. 701.5 MHz	23095 Ch. 707.5 MHz	23155 Ch. 713.5 MHz		
5 MHz	QPSK	1	0	24.16	24.18	24.23	0	0
		1	12	24.11	24.13	24.23	0	0
		1	24	24.01	24.03	24.07	0	0
		12	0	23.13	23.15	23.17	0-1	0
		12	6	23.21	23.30	23.28	0-1	0
		12	11	23.15	23.22	23.26	0-1	0
		25	0	23.21	23.24	23.21	0-1	1
	16QAM	1	0	23.61	23.41	23.41	0-1	1
		1	12	23.47	23.27	23.41	0-1	1
		1	24	23.49	23.33	23.53	0-1	1
		12	0	22.20	22.17	22.22	0-2	1
		12	6	22.32	22.23	22.37	0-2	1
		12	11	22.26	22.28	22.33	0-2	1
		25	0	22.18	22.26	22.29	0-2	2
	64QAM	1	0	22.18	22.25	22.30	0-2	2
		1	12	22.07	22.23	22.36	0-2	2
		1	24	22.36	22.34	22.35	0-2	2
		12	0	21.06	21.25	21.21	0-3	2
		12	6	21.32	21.34	21.26	0-3	2
		12	11	21.30	21.30	21.25	0-3	2
		25	0	21.21	21.26	21.22	0-3	3
	256QAM	1	0	19.19	19.22	19.33	0-5	5
		1	12	19.32	19.18	19.30	0-5	5
		1	24	19.31	19.22	19.24	0-5	5
		12	0	19.06	19.22	19.16	0-5	5
		12	6	19.23	19.24	19.21	0-5	5
		12	11	19.18	19.31	19.19	0-5	5
		25	0	19.21	19.25	19.16	0-5	5

LTE Band 12 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				23095 Ch. 707.5 MHz		
10 MHz	QPSK	1	0	24.10	0	0
		1	24	24.15	0	0
		1	49	23.92	0	0
		25	0	23.22	0-1	0
		25	12	23.28	0-1	0
		25	24	23.21	0-1	0
		50	0	23.16	0-1	1
	16QAM	1	0	23.52	0-1	1
		1	24	23.28	0-1	1
		1	49	23.42	0-1	1
		25	0	22.14	0-2	1
		25	12	22.29	0-2	1
		25	24	22.33	0-2	1
		50	0	22.25	0-2	2
	64QAM	1	0	22.34	0-2	2
		1	24	22.31	0-2	2
		1	49	22.38	0-2	2
		25	0	21.24	0-3	2
		25	12	21.39	0-3	2
		25	24	21.21	0-3	2
		50	0	21.27	0-3	3
	256QAM	1	0	18.89	0-5	5
		1	24	19.21	0-5	5
		1	49	19.18	0-5	5
		25	0	19.12	0-5	5
		25	12	19.29	0-5	5
		25	24	19.15	0-5	5
		50	0	19.23	0-5	5

[LTE Band 13 Conducted Power]

LTE Band 13 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23205Ch. 779.5 MHz	23230 ch. 782 MHz	23255 ch. 784.5 MHz		
5 MHz	QPSK	1	0	23.95	23.97	23.92	0	0
		1	12	24.11	24.34	24.10	0	0
		1	24	23.91	23.98	23.87	0	0
		12	0	22.96	22.98	22.93	0-1	0
		12	6	23.06	22.99	23.02	0-1	0
		12	11	22.97	23.05	23.05	0-1	0
		25	0	23.04	23.03	23.04	0-1	1
	16QAM	1	0	23.50	23.36	23.48	0-1	1
		1	12	23.12	23.10	23.27	0-1	1
		1	24	23.30	23.24	23.19	0-1	1
		12	0	21.94	22.03	22.05	0-2	1
		12	6	22.10	22.18	22.15	0-2	1
		12	11	22.07	22.04	22.14	0-2	1
		25	0	22.07	21.99	22.09	0-2	2
	64QAM	1	0	22.17	22.22	22.13	0-2	2
		1	12	22.18	22.07	22.29	0-2	2
		1	24	22.20	22.23	22.14	0-2	2
		12	0	21.07	21.05	20.97	0-3	2
		12	6	21.03	21.04	21.11	0-3	2
		12	11	21.11	21.11	21.01	0-3	2
		25	0	21.02	20.97	21.01	0-3	3
	256QAM	1	0	18.90	19.01	18.95	0-5	5
		1	12	19.02	19.03	19.00	0-5	5
		1	24	19.07	19.11	19.05	0-5	5
		12	0	18.97	19.04	18.92	0-5	5
		12	6	19.07	18.98	19.09	0-5	5
		12	11	18.92	19.09	18.92	0-5	5
		25	0	19.11	18.91	18.98	0-5	5

LTE Band 13 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				23230 Ch. 782 MHz		
10 MHz	QPSK	1	0	23.84	0	0
		1	24	24.00	0	0
		1	49	23.68	0	0
		25	0	23.09	0-1	0
		25	12	22.95	0-1	0
		25	24	23.06	0-1	0
		50	0	22.99	0-1	1
	16QAM	1	0	23.39	0-1	1
		1	24	23.24	0-1	1
		1	49	23.25	0-1	1
		25	0	22.04	0-2	1
		25	12	22.05	0-2	1
		25	24	21.92	0-2	1
		50	0	21.95	0-2	2
	64QAM	1	0	22.35	0-2	2
		1	24	22.27	0-2	2
		1	49	22.23	0-2	2
		25	0	21.12	0-3	2
		25	12	21.07	0-3	2
		25	24	21.07	0-3	2
		50	0	21.04	0-3	3
	256QAM	1	0	18.75	0-5	5
		1	24	18.94	0-5	5
		1	49	18.91	0-5	5
		25	0	18.97	0-5	5
		25	12	19.06	0-5	5
		25	24	18.92	0-5	5
		50	0	19.05	0-5	5

[LTE Band 14 Conducted Power]

LTE Band 14 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23305 Ch. 790.5 MHz	23330 Ch. 793 MHz	23355 Ch. 795.5 MHz		
5 MHz	QPSK	1	0	23.98	24.04	24.00	0	0
		1	12	23.86	23.80	23.88	0	0
		1	24	23.80	23.77	23.69	0	0
		12	0	23.09	23.11	23.08	0-1	0
		12	6	23.05	23.14	23.06	0-1	0
		12	11	23.01	22.99	23.01	0-1	0
		25	0	23.04	23.05	23.02	0-1	1
	16QAM	1	0	23.45	23.41	23.26	0-1	1
		1	12	23.33	23.11	23.18	0-1	1
		1	24	23.19	23.17	23.02	0-1	1
		12	0	22.21	22.21	22.11	0-2	1
		12	6	21.99	22.19	22.15	0-2	1
		12	11	22.01	22.08	21.88	0-2	1
		25	0	22.05	22.04	22.08	0-2	2
	64QAM	1	0	22.30	22.35	22.29	0-2	2
		1	12	22.13	22.07	22.15	0-2	2
		1	24	22.03	22.20	22.24	0-2	2
		12	0	21.19	21.18	21.09	0-3	2
		12	6	21.03	21.16	21.13	0-3	2
		12	11	21.01	20.98	20.96	0-3	2
		25	0	21.07	21.00	21.11	0-3	3
	256QAM	1	0	19.22	19.18	19.02	0-5	5
		1	12	19.01	19.06	19.05	0-5	5
		1	24	18.98	18.91	19.02	0-5	5
		12	0	19.16	19.14	19.09	0-5	5
		12	6	19.11	19.12	19.11	0-5	5
		12	11	18.95	18.95	18.90	0-5	5
		25	0	19.03	19.02	19.01	0-5	5

LTE Band 14 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				23330 Ch. 793 MHz		
10 MHz	QPSK	1	0	24.45	0	0
		1	24	24.55	0	0
		1	49	24.42	0	0
		25	0	23.58	0-1	0
		25	12	23.54	0-1	0
		25	24	23.53	0-1	0
		50	0	23.61	0-1	1
	16QAM	1	0	23.85	0-1	1
		1	24	23.77	0-1	1
		1	49	23.82	0-1	1
		25	0	22.65	0-2	1
		25	12	22.65	0-2	1
		25	24	22.61	0-2	1
		50	0	22.53	0-2	2
	64QAM	1	0	22.80	0-2	2
		1	24	22.75	0-2	2
		1	49	22.63	0-2	2
		25	0	21.63	0-3	2
		25	12	21.57	0-3	2
		25	24	21.61	0-3	2
		50	0	21.48	0-3	3
	256QAM	1	0	19.35	0-5	5
		1	24	19.75	0-5	5
		1	49	19.52	0-5	5
		25	0	19.46	0-5	5
		25	12	19.58	0-5	5
		25	24	19.52	0-5	5
		50	0	19.45	0-5	5

[LTE Band 25 _Main #2 Ant. Conducted Power]

LTE Band 25 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26047 Ch. 1850.7 MHz	26365 Ch. 1882.5 MHz	26683 Ch. 1914.3 MHz		
1.4 MHz	QPSK	1	0	23.87	24.00	23.96	0	0
		1	3	23.83	24.03	23.88	0	0
		1	5	23.76	24.01	23.87	0	0
		3	0	23.86	24.06	23.87	0	0
		3	1	23.87	24.03	23.99	0	0
		3	3	23.86	24.05	23.90	0	0
		6	0	22.92	23.09	22.97	0-1	1
	16QAM	1	0	23.10	23.32	23.16	0-1	1
		1	3	23.50	23.81	23.50	0-1	1
		1	5	23.29	23.67	23.18	0-1	1
		3	0	23.10	23.10	22.96	0-1	1
		3	1	22.92	23.03	23.08	0-1	1
		3	3	22.96	23.11	23.08	0-1	1
		6	0	22.06	22.19	22.06	0-2	2
	64QAM	1	0	22.00	22.26	22.17	0-2	2
		1	3	22.21	22.37	22.21	0-2	2
		1	5	22.25	22.36	22.17	0-2	2
		3	0	22.08	22.16	22.01	0-2	2
		3	1	22.02	22.19	22.09	0-2	2
		3	3	22.07	22.31	22.13	0-2	2
		6	0	20.98	21.12	20.93	0-3	3
	256QAM	1	0	19.12	19.22	19.09	0-5	5
		1	3	19.31	19.37	19.28	0-5	5
		1	5	19.12	19.25	19.18	0-5	5
		3	0	19.13	19.48	19.20	0-5	5
		3	1	19.15	19.32	19.20	0-5	5
		3	3	18.98	19.39	19.14	0-5	5
		6	0	19.04	19.20	18.97	0-5	5

LTE Band 25 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26055 Ch. 1851.5 MHz	26365 Ch. 1882.5 MHz	26675 Ch. 1913.5 MHz		
3 MHz	QPSK	1	0	23.86	24.13	23.89	0	0
		1	7	24.07	24.16	24.19	0	0
		1	14	23.84	24.17	24.01	0	0
		8	0	23.05	23.20	23.06	0-1	0
		8	3	22.95	23.26	23.24	0-1	0
		8	7	23.04	23.21	23.12	0-1	0
		15	0	23.07	23.23	23.06	0-1	1
	16QAM	1	0	23.04	23.27	23.16	0-1	1
		1	7	22.97	23.42	23.55	0-1	1
		1	14	23.52	23.53	23.46	0-1	1
		8	0	21.99	22.27	22.11	0-2	1
		8	3	22.08	22.26	22.11	0-2	1
		8	7	22.05	22.27	22.17	0-2	1
		15	0	22.07	22.23	22.10	0-2	2
	64QAM	1	0	22.23	22.22	22.20	0-2	2
		1	7	22.19	22.28	22.18	0-2	2
		1	14	22.06	22.59	22.24	0-2	2
		8	0	21.04	21.21	21.06	0-3	2
		8	3	21.15	21.26	21.19	0-3	2
		8	7	21.13	21.27	21.11	0-3	2
		15	0	21.08	21.19	21.11	0-3	3
	256QAM	1	0	19.19	19.47	19.37	0-5	5
		1	7	19.10	19.35	19.25	0-5	5
		1	14	19.25	19.51	19.12	0-5	5
		8	0	19.09	19.31	19.16	0-5	5
		8	3	19.15	19.33	19.14	0-5	5
		8	7	19.12	19.34	19.25	0-5	5
		15	0	19.02	19.27	19.06	0-5	5

LTE Band 25 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26065 Ch. 1852.5 MHz	26365 Ch. 1882.5 MHz	26665 Ch. 1912.5 MHz		
5 MHz	QPSK	1	0	23.84	24.11	24.02	0	0
		1	12	23.99	24.14	24.09	0	0
		1	24	23.92	24.01	24.09	0	0
		12	0	23.00	23.19	23.05	0-1	0
		12	6	23.04	23.24	23.12	0-1	0
		12	11	23.04	23.27	23.12	0-1	0
		25	0	23.09	23.21	22.99	0-1	1
	16QAM	1	0	23.13	23.34	23.22	0-1	1
		1	12	23.10	23.28	23.22	0-1	1
		1	24	23.46	23.69	23.59	0-1	1
		12	0	21.93	22.27	21.95	0-2	1
		12	6	22.00	22.25	22.13	0-2	1
		12	11	22.11	22.24	22.07	0-2	1
		25	0	22.11	22.25	22.05	0-2	2
	64QAM	1	0	22.05	22.49	22.21	0-2	2
		1	12	22.09	22.28	22.19	0-2	2
		1	24	22.21	22.27	22.24	0-2	2
		12	0	21.00	21.30	21.11	0-3	2
		12	6	21.04	21.29	21.18	0-3	2
		12	11	21.13	21.33	21.13	0-3	2
		25	0	21.09	21.27	20.98	0-3	3
	256QAM	1	0	19.17	19.37	19.15	0-5	5
		1	12	19.03	19.31	19.23	0-5	5
		1	24	19.22	19.55	19.16	0-5	5
		12	0	19.09	19.34	19.05	0-5	5
		12	6	19.07	19.23	19.24	0-5	5
		12	11	19.08	19.25	19.23	0-5	5
		25	0	19.13	19.37	19.17	0-5	5

LTE Band 25 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26090 Ch. 1855 MHz	26365 Ch. 1882.5 MHz	26640 Ch. 1910 MHz		
10 MHz	QPSK	1	0	23.54	23.93	23.92	0	0
		1	24	23.78	23.99	23.88	0	0
		1	49	23.49	23.81	23.97	0	0
		25	0	22.89	23.10	23.00	0-1	0
		25	12	23.02	23.22	23.19	0-1	0
		25	24	22.99	23.16	23.07	0-1	0
		50	0	22.99	23.07	23.02	0-1	1
	16QAM	1	0	23.22	23.29	23.59	0-1	1
		1	24	23.15	23.38	23.61	0-1	1
		1	49	23.02	23.15	23.27	0-1	1
		25	0	21.95	22.19	21.79	0-2	1
		25	12	22.11	22.33	21.86	0-2	1
		25	24	21.98	22.28	21.30	0-2	1
		50	0	21.99	22.08	21.18	0-2	2
	64QAM	1	0	21.79	22.10	22.04	0-2	2
		1	24	22.13	22.32	21.98	0-2	2
		1	49	22.11	22.27	21.98	0-2	2
		25	0	20.99	21.07	20.74	0-3	2
		25	12	21.02	21.21	21.00	0-3	2
		25	24	20.98	21.18	20.70	0-3	2
		50	0	21.01	21.19	21.17	0-3	3
	256QAM	1	0	18.92	19.11	19.14	0-5	5
		1	24	19.18	19.39	19.25	0-5	5
		1	49	18.96	19.06	19.07	0-5	5
		25	0	18.93	19.15	19.03	0-5	5
		25	12	19.17	19.32	19.22	0-5	5
		25	24	18.97	19.21	19.20	0-5	5
		50	0	18.94	19.25	19.04	0-5	5

LTE Band 25 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26115 Ch. 1857.5 MHz	26365 Ch. 1882.5 MHz	26615 Ch. 1907.5 MHz		
15 MHz	QPSK	1	0	23.65	24.01	24.03	0	0
		1	36	23.65	23.86	23.86	0	0
		1	74	23.80	24.02	23.96	0	0
		36	0	22.85	22.98	22.87	0-1	0
		36	18	22.98	23.14	22.98	0-1	0
		36	39	22.93	23.14	23.02	0-1	0
		75	0	22.86	22.99	22.95	0-1	1
	16QAM	1	0	23.00	23.49	23.40	0-1	1
		1	36	23.09	23.51	23.37	0-1	1
		1	74	23.11	23.30	23.40	0-1	1
		36	0	21.83	21.98	21.87	0-2	1
		36	18	21.98	22.18	21.99	0-2	1
		36	39	21.93	22.13	22.06	0-2	1
		75	0	21.94	22.01	22.00	0-2	2
	64QAM	1	0	21.74	22.25	22.12	0-2	2
		1	36	22.11	22.20	22.31	0-2	2
		1	74	21.93	22.23	22.13	0-2	2
		36	0	20.89	20.98	20.94	0-3	2
		36	18	20.98	21.18	21.02	0-3	2
		36	39	20.97	21.19	21.14	0-3	2
		75	0	20.92	21.01	20.90	0-3	3
	256QAM	1	0	18.84	19.02	18.95	0-5	5
		1	36	18.93	19.17	19.04	0-5	5
		1	74	18.93	19.32	19.09	0-5	5
		36	0	18.98	19.16	18.96	0-5	5
		36	18	19.02	19.28	19.03	0-5	5
		36	39	19.07	19.27	19.10	0-5	5
		75	0	18.95	19.07	19.05	0-5	5

LTE Band 25 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26140 Ch. 1860 MHz	26365 Ch. 1882.5 MHz	26590 Ch. 1905 MHz		
20 MHz	QPSK	1	0	23.77	23.92	24.04	0	0
		1	49	23.72	24.07	24.03	0	0
		1	99	23.99	24.04	23.98	0	0
		50	0	22.90	23.12	23.02	0-1	0
		50	25	22.94	23.08	23.03	0-1	0
		50	49	22.99	23.11	23.02	0-1	0
		100	0	22.91	23.02	22.94	0-1	1
	16QAM	1	0	23.25	23.31	23.40	0-1	1
		1	49	22.92	23.30	23.29	0-1	1
		1	99	23.31	23.40	23.43	0-1	1
		50	0	21.96	22.12	22.00	0-2	1
		50	25	21.95	22.07	22.03	0-2	1
		50	49	21.97	22.15	22.18	0-2	1
		100	0	21.85	22.10	21.89	0-2	2
	64QAM	1	0	22.02	22.28	22.04	0-2	2
		1	49	21.90	22.24	22.26	0-2	2
		1	99	22.18	22.25	22.26	0-2	2
		50	0	20.93	21.10	20.99	0-3	2
		50	25	20.93	21.13	21.02	0-3	2
		50	49	21.04	21.16	21.03	0-3	2
		100	0	20.88	21.07	20.92	0-3	3
	256QAM	1	0	18.63	18.73	18.82	0-5	5
		1	49	19.11	19.23	19.19	0-5	5
		1	99	18.92	19.10	18.97	0-5	5
		50	0	18.82	19.01	18.89	0-5	5
		50	25	18.97	19.13	19.13	0-5	5
		50	49	19.09	19.19	19.07	0-5	5
		100	0	18.95	19.07	18.95	0-5	5

[LTE Band 25 _Sub #1 Ant. Conducted Power]

LTE Band 25 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26047 Ch. 1850.7 MHz	26365 Ch. 1882.5 MHz	26683 Ch. 1914.3 MHz		
1.4 MHz	QPSK	1	0	21.16	21.17	20.63	0	0
		1	3	21.12	21.21	20.70	0	0
		1	5	21.16	21.15	20.64	0	0
		3	0	21.06	21.20	20.70	0	0
		3	1	21.07	21.26	20.64	0	0
		3	3	21.05	21.28	20.63	0	0
		6	0	21.03	21.23	20.68	0-1	1
	16QAM	1	0	20.50	20.57	20.16	0-1	1
		1	3	20.49	20.52	20.16	0-1	1
		1	5	20.56	20.59	20.18	0-1	1
		3	0	20.27	20.21	19.79	0-1	1
		3	1	20.19	20.25	19.76	0-1	1
		3	3	20.19	20.26	19.78	0-1	1
		6	0	20.20	20.27	19.83	0-2	2
	64QAM	1	0	20.33	20.37	18.96	0-2	2
		1	3	20.37	20.37	18.93	0-2	2
		1	5	20.30	20.37	18.96	0-2	2
		3	0	20.29	20.31	18.96	0-2	2
		3	1	20.31	20.29	18.98	0-2	2
		3	3	20.27	20.34	18.97	0-2	2
		6	0	19.28	19.38	17.99	0-3	3
	256QAM	1	0	16.02	16.03	15.79	0-5	5
		1	3	16.59	16.41	16.33	0-5	5
		1	5	16.04	15.78	16.05	0-5	5
		3	0	16.20	16.16	15.85	0-5	5
		3	1	16.27	16.36	15.99	0-5	5
		3	3	16.27	16.12	16.06	0-5	5
		6	0	16.07	16.21	16.05	0-5	5

LTE Band 25 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26055 Ch. 1851.5 MHz	26365 Ch. 1882.5 MHz	26675 Ch. 1913.5 MHz		
3 MHz	QPSK	1	0	21.04	21.14	20.79	0	0
		1	7	21.08	21.16	20.69	0	0
		1	14	21.10	21.15	20.71	0	0
		8	0	20.55	20.34	20.07	0-1	0
		8	3	20.47	20.41	20.15	0-1	0
		8	7	20.50	20.33	20.07	0-1	0
		15	0	20.52	20.40	20.17	0-1	1
	16QAM	1	0	20.51	20.56	20.14	0-1	1
		1	7	20.51	20.62	20.10	0-1	1
		1	14	20.42	20.61	20.16	0-1	1
		8	0	19.48	19.23	19.03	0-2	1
		8	3	19.42	19.27	19.10	0-2	1
		8	7	19.52	19.23	19.05	0-2	1
		15	0	19.51	19.32	19.07	0-2	2
	64QAM	1	0	19.42	19.33	19.18	0-2	2
		1	7	19.38	19.39	19.18	0-2	2
		1	14	19.42	19.39	19.15	0-2	2
		8	0	18.50	18.29	18.10	0-3	2
		8	3	18.57	18.29	18.12	0-3	2
		8	7	18.54	18.30	18.14	0-3	2
		15	0	18.50	18.34	18.10	0-3	3
	256QAM	1	0	16.15	15.90	15.96	0-5	5
		1	7	16.70	16.33	16.25	0-5	5
		1	14	16.15	15.94	16.22	0-5	5
		8	0	16.37	16.33	16.18	0-5	5
		8	3	16.39	16.52	16.15	0-5	5
		8	7	16.41	16.25	16.23	0-5	5
		15	0	16.22	16.31	16.19	0-5	5

LTE Band 25 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26065 Ch. 1852.5 MHz	26365 Ch. 1882.5 MHz	26665 Ch. 1912.5 MHz		
5 MHz	QPSK	1	0	21.21	21.36	20.82	0	0
		1	12	21.16	21.39	20.83	0	0
		1	24	21.21	21.40	20.82	0	0
		12	0	20.22	20.53	19.85	0-1	0
		12	6	20.23	20.56	19.80	0-1	0
		12	11	20.25	20.52	19.81	0-1	0
		25	0	20.23	20.51	19.80	0-1	1
	16QAM	1	0	20.47	20.52	20.11	0-1	1
		1	12	20.43	20.52	20.13	0-1	1
		1	24	20.45	20.52	20.10	0-1	1
		12	0	19.38	19.60	18.99	0-2	1
		12	6	19.34	19.53	18.96	0-2	1
		12	11	19.39	19.55	18.99	0-2	1
		25	0	19.39	19.56	18.98	0-2	2
	64QAM	1	0	19.41	19.61	19.02	0-2	2
		1	12	19.42	19.64	19.08	0-2	2
		1	24	19.42	19.57	19.07	0-2	2
		12	0	18.31	18.62	18.01	0-3	2
		12	6	18.38	18.64	17.94	0-3	2
		12	11	18.31	18.59	18.01	0-3	2
		25	0	18.36	18.58	17.94	0-3	3
	256QAM	1	0	16.34	16.24	16.24	0-5	5
		1	12	16.55	16.40	16.25	0-5	5
		1	24	16.47	16.23	16.46	0-5	5
		12	0	16.64	16.63	16.25	0-5	5
		12	6	16.33	16.66	16.11	0-5	5
		12	11	16.58	16.58	16.48	0-5	5
		25	0	16.49	16.60	16.33	0-5	5

LTE Band 25 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26090 Ch. 1855 MHz	26365 Ch. 1882.5 MHz	26640 Ch. 1910 MHz		
10 MHz	QPSK	1	0	20.95	20.84	21.12	0	0
		1	24	20.91	20.86	21.13	0	0
		1	49	20.95	20.79	21.12	0	0
		25	0	20.20	20.32	19.99	0-1	0
		25	12	20.18	20.26	20.04	0-1	0
		25	24	20.17	20.29	20.02	0-1	0
		50	0	20.17	20.30	20.01	0-1	1
	16QAM	1	0	20.32	20.34	20.53	0-1	1
		1	24	20.33	20.32	20.52	0-1	1
		1	49	20.34	20.33	20.46	0-1	1
		25	0	19.16	19.23	19.06	0-2	1
		25	12	19.17	19.27	19.13	0-2	1
		25	24	19.20	19.24	19.12	0-2	1
		50	0	19.17	19.26	19.13	0-2	2
	64QAM	1	0	19.31	19.18	19.40	0-2	2
		1	24	19.31	19.19	19.42	0-2	2
		1	49	19.33	19.15	19.43	0-2	2
		25	0	18.21	18.34	18.10	0-3	2
		25	12	18.26	18.34	18.07	0-3	2
		25	24	18.21	18.36	18.05	0-3	2
		50	0	18.19	18.39	18.09	0-3	3
	256QAM	1	0	16.54	16.35	16.42	0-5	5
		1	24	16.86	16.21	16.70	0-5	5
		1	49	16.32	16.11	16.32	0-5	5
		25	0	16.50	16.48	16.32	0-5	5
		25	12	16.61	16.72	16.22	0-5	5
		25	24	16.43	16.42	16.37	0-5	5
		50	0	16.38	16.50	16.36	0-5	5

LTE Band 25 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26115 Ch. 1857.5 MHz	26365 Ch. 1882.5 MHz	26615 Ch. 1907.5 MHz		
15 MHz	QPSK	1	0	20.86	20.99	20.97	0	0
		1	36	20.89	20.96	20.97	0	0
		1	74	20.84	20.97	20.98	0	0
		36	0	20.17	20.20	20.11	0-1	0
		36	18	20.14	20.20	20.15	0-1	0
		36	39	20.10	20.18	20.17	0-1	0
		75	0	20.13	20.21	20.10	0-1	1
	16QAM	1	0	20.24	20.24	20.30	0-1	1
		1	36	20.22	20.28	20.27	0-1	1
		1	74	20.19	20.25	20.31	0-1	1
		36	0	19.23	19.14	19.14	0-2	1
		36	18	19.23	19.17	19.14	0-2	1
		36	39	19.28	19.15	19.11	0-2	1
		75	0	19.28	19.14	19.08	0-2	2
	64QAM	1	0	19.09	19.29	19.23	0-2	2
		1	36	19.12	19.33	19.16	0-2	2
		1	74	19.12	19.33	19.19	0-2	2
		36	0	18.32	18.28	18.15	0-3	2
		36	18	18.35	18.27	18.14	0-3	2
		36	39	18.32	18.21	18.18	0-3	2
		75	0	18.27	18.29	18.13	0-3	3
	256QAM	1	0	16.43	16.15	16.25	0-5	5
		1	36	16.99	16.33	16.81	0-5	5
		1	74	16.44	16.29	16.46	0-5	5
		36	0	16.67	16.65	16.45	0-5	5
		36	18	16.73	16.84	16.37	0-5	5
		36	39	16.62	16.53	16.52	0-5	5
		75	0	16.53	16.61	16.51	0-5	5

LTE Band 25 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26140 Ch. 1860 MHz	26365 Ch. 1882.5 MHz	26590 Ch. 1905 MHz		
20 MHz	QPSK	1	0	21.11	21.21	20.81	0	0
		1	49	21.10	21.16	20.77	0	0
		1	99	21.14	21.21	20.78	0	0
		50	0	20.56	20.38	20.14	0-1	0
		50	25	20.52	20.43	20.19	0-1	0
		50	49	20.51	20.38	20.15	0-1	0
		100	0	20.55	20.40	20.17	0-1	1
	16QAM	1	0	20.53	20.62	20.20	0-1	1
		1	49	20.55	20.62	20.16	0-1	1
		1	99	20.50	20.64	20.16	0-1	1
		50	0	19.55	19.31	19.07	0-2	1
		50	25	19.49	19.31	19.13	0-2	1
		50	49	19.57	19.29	19.07	0-2	1
		100	0	19.55	19.35	19.07	0-2	2
	64QAM	1	0	19.47	19.40	19.20	0-2	2
		1	49	19.45	19.39	19.25	0-2	2
		1	99	19.49	19.40	19.19	0-2	2
		50	0	18.55	18.33	18.17	0-3	2
		50	25	18.58	18.37	18.19	0-3	2
		50	49	18.57	18.34	18.19	0-3	2
		100	0	18.55	18.35	18.15	0-3	3
	256QAM	1	0	16.26	16.03	16.11	0-5	5
		1	49	16.82	16.69	16.71	0-5	5
		1	99	16.25	16.11	16.33	0-5	5
		50	0	16.49	16.47	16.31	0-5	5
		50	25	16.55	16.67	16.25	0-5	5
		50	49	16.51	16.42	16.34	0-5	5
		100	0	16.39	16.43	16.33	0-5	5

[LTE Band 26 Conducted Power]

LTE Band 26 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26697 Ch. 814.7 MHz	26865 Ch. 831.5 MHz	27033 Ch. 848.3 MHz		
1.4 MHz	QPSK	1	0	23.97	23.81	23.65	0	0
		1	3	24.02	23.94	23.78	0	0
		1	5	24.05	23.84	23.64	0	0
		3	0	24.00	23.87	23.67	0	0
		3	1	24.00	23.85	23.67	0	0
		3	3	23.95	23.79	23.61	0	0
		6	0	23.13	22.94	22.82	0-1	1
	16QAM	1	0	23.32	23.05	22.98	0-1	1
		1	3	23.45	23.40	23.17	0-1	1
		1	5	23.44	23.36	23.12	0-1	1
		3	0	23.12	22.86	22.79	0-1	1
		3	1	23.11	22.93	22.88	0-1	1
		3	3	23.05	22.95	22.74	0-1	1
		6	0	22.17	22.09	21.88	0-2	2
	64QAM	1	0	22.31	22.10	21.98	0-2	2
		1	3	22.24	22.19	22.14	0-2	2
		1	5	22.23	22.18	22.09	0-2	2
		3	0	22.17	21.99	21.82	0-2	2
		3	1	22.24	22.06	21.83	0-2	2
		3	3	22.16	22.03	21.86	0-2	2
		6	0	21.07	20.97	20.80	0-3	3
	256QAM	1	0	19.29	18.98	18.71	0-5	4
		1	3	19.31	18.89	18.82	0-5	4
		1	5	19.05	19.11	18.81	0-5	4
		3	0	19.27	19.18	18.97	0-5	4
		3	1	19.25	18.98	18.91	0-5	4
		3	3	19.29	18.94	18.91	0-5	4
		6	0	19.20	18.86	18.74	0-5	5

LTE Band 26 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26705 Ch. 815.5 MHz	26865 Ch. 831.5 MHz	27025 Ch. 847.5 MHz		
3 MHz	QPSK	1	0	23.97	23.93	23.79	0	0
		1	7	24.02	23.81	23.71	0	0
		1	14	24.08	23.91	23.78	0	0
		8	0	23.13	22.83	22.85	0-1	1
		8	3	23.25	23.12	23.00	0-1	1
		8	7	23.07	23.00	22.95	0-1	1
		15	0	23.17	23.02	22.93	0-1	1
	16QAM	1	0	23.23	23.26	23.21	0-1	1
		1	7	23.40	23.34	23.23	0-1	1
		1	14	23.40	23.36	23.22	0-1	1
		8	0	22.18	22.01	21.87	0-2	2
		8	3	22.21	22.12	22.05	0-2	2
		8	7	22.20	21.96	22.00	0-2	2
		15	0	22.05	21.98	21.92	0-2	2
	64QAM	1	0	22.34	22.13	22.01	0-2	2
		1	7	22.35	22.07	22.11	0-2	2
		1	14	22.11	22.22	21.98	0-2	2
		8	0	21.18	20.93	20.88	0-3	3
		8	3	21.27	21.14	21.09	0-3	3
		8	7	21.18	20.99	20.92	0-3	3
		15	0	21.23	21.06	20.96	0-3	3
	256QAM	1	0	19.34	18.99	18.70	0-5	4
		1	7	19.17	18.98	18.93	0-5	4
		1	14	19.20	19.05	18.86	0-5	4
		8	0	19.12	18.81	18.81	0-5	5
		8	3	19.20	19.00	18.93	0-5	5
		8	7	19.11	19.06	18.84	0-5	5
		15	0	19.16	18.97	18.78	0-5	5

LTE Band 26 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26715 Ch. 816.5 MHz	26865 Ch. 831.5 MHz	27015 Ch. 846.5 MHz		
5 MHz	QPSK	1	0	24.08	23.97	23.90	0	0
		1	12	24.04	23.91	24.02	0	0
		1	24	23.94	23.88	23.76	0	0
		12	0	23.11	22.90	22.93	0-1	0
		12	6	23.14	22.96	22.98	0-1	0
		12	11	23.10	23.02	22.92	0-1	0
		25	0	23.11	23.02	22.93	0-1	1
	16QAM	1	0	23.35	23.37	23.16	0-1	1
		1	12	23.52	23.37	23.41	0-1	1
		1	24	23.49	23.16	23.22	0-1	1
		12	0	22.19	21.96	21.77	0-2	1
		12	6	22.22	21.94	21.93	0-2	1
		12	11	22.10	22.09	22.00	0-2	1
		25	0	22.19	22.04	21.96	0-2	2
	64QAM	1	0	22.24	22.17	22.17	0-2	2
		1	12	22.27	22.09	22.07	0-2	2
		1	24	22.28	22.14	22.00	0-2	2
		12	0	21.18	20.91	20.97	0-3	2
		12	6	21.21	21.04	21.00	0-3	2
		12	11	21.11	20.99	21.00	0-3	2
		25	0	21.16	21.06	20.87	0-3	3
	256QAM	1	0	19.22	18.82	18.71	0-5	5
		1	12	19.35	19.04	18.95	0-5	5
		1	24	19.15	18.93	18.90	0-5	5
		12	0	19.09	18.90	18.77	0-5	5
		12	6	19.09	18.97	18.88	0-5	5
		12	11	19.13	18.95	18.73	0-5	5
		25	0	19.14	18.92	18.77	0-5	5

LTE Band 26 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26750 Ch. 820 MHz	26865 Ch. 831.5 MHz	26990 Ch. 844 MHz		
10 MHz	QPSK	1	0	24.09	23.94	23.98	0	0
		1	24	23.93	23.89	23.80	0	0
		1	49	23.95	23.95	23.78	0	0
		25	0	23.02	22.91	22.81	0-1	0
		25	12	23.11	22.93	22.91	0-1	0
		25	24	22.95	22.88	22.89	0-1	0
		50	0	23.03	22.94	22.80	0-1	1
	16QAM	1	0	23.45	23.48	23.17	0-1	1
		1	24	23.35	23.17	23.13	0-1	1
		1	49	23.22	23.21	23.16	0-1	1
		25	0	22.10	21.91	21.88	0-2	1
		25	12	22.16	21.95	21.93	0-2	1
		25	24	22.11	22.01	21.95	0-2	1
		50	0	22.11	21.98	21.76	0-2	2
	64QAM	1	0	22.33	22.24	22.06	0-2	2
		1	24	22.35	22.11	22.08	0-2	2
		1	49	22.22	22.22	22.03	0-2	2
		25	0	21.06	20.88	20.82	0-3	2
		25	12	21.15	21.01	20.96	0-3	2
		25	24	21.09	20.98	21.01	0-3	2
		50	0	21.10	20.97	20.84	0-3	3
	256QAM	1	0	18.73	18.61	18.61	0-5	5
		1	24	19.22	18.94	19.04	0-5	5
		1	49	18.84	18.83	18.81	0-5	5
		25	0	18.96	18.86	18.72	0-5	5
		25	12	19.22	18.97	18.82	0-5	5
		25	24	19.05	18.94	18.72	0-5	5
		50	0	19.09	18.90	18.69	0-5	5

LTE Band 26 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				26865 Ch. 831.5 MHz		
15 MHz	QPSK	1	0	23.83	0	0
		1	36	23.67	0	0
		1	74	23.73	0	0
		36	0	22.81	0-1	0
		36	18	22.77	0-1	0
		36	39	22.75	0-1	0
		75	0	22.78	0-1	1
	16QAM	1	0	23.24	0-1	1
		1	36	23.06	0-1	1
		1	74	23.10	0-1	1
		36	0	21.75	0-2	1
		36	18	21.78	0-2	1
		36	39	21.75	0-2	1
		75	0	21.82	0-2	2
	64QAM	1	0	22.07	0-2	2
		1	36	21.91	0-2	2
		1	74	21.87	0-2	2
		36	0	20.81	0-3	2
		36	18	20.90	0-3	2
		36	39	20.84	0-3	2
		75	0	20.87	0-3	3
	256QAM	1	0	18.53	0-5	5
		1	36	18.63	0-5	5
		1	74	18.59	0-5	5
		36	0	18.68	0-5	5
		36	18	18.67	0-5	5
		36	39	18.76	0-5	5
		75	0	18.71	0-5	5

[LTE Band 30 Conducted Power]

LTE Band 30 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				27685 Ch. 2307.5 MHz	27710 Ch. 2310 MHz	27735 Ch. 2312.5 MHz		
5 MHz	QPSK	1	0	22.91	22.88	22.78	0	0
		1	12	23.00	22.82	22.82	0	0
		1	24	22.82	22.89	22.71	0	0
		12	0	21.99	21.98	21.89	0-1	0
		12	6	22.01	21.94	21.93	0-1	0
		12	11	21.89	21.89	21.88	0-1	0
		25	0	21.89	21.96	21.99	0-1	1
	16QAM	1	0	22.29	22.28	22.01	0-1	1
		1	12	22.18	22.31	22.10	0-1	1
		1	24	22.38	22.11	22.16	0-1	1
		12	0	20.97	20.90	20.98	0-2	1
		12	6	20.96	20.97	20.98	0-2	1
		12	11	21.05	20.89	20.97	0-2	1
		25	0	20.97	20.93	20.98	0-2	2
	64QAM	1	0	21.25	21.11	21.12	0-2	2
		1	12	21.14	21.01	21.09	0-2	2
		1	24	21.05	20.93	20.68	0-2	2
		12	0	20.00	20.01	20.06	0-3	2
		12	6	19.91	19.96	19.98	0-3	2
		12	11	19.98	19.90	19.97	0-3	2
		25	0	19.90	19.87	19.95	0-3	3
	256QAM	1	0	18.25	18.16	18.01	0-5	5
		1	12	18.19	18.14	18.21	0-5	5
		1	24	18.09	18.06	17.96	0-5	5
		12	0	18.14	18.08	18.03	0-5	5
		12	6	17.99	18.12	18.05	0-5	5
		12	11	18.04	17.95	18.05	0-5	5
		25	0	18.05	17.96	18.04	0-5	5

LTE Band 30 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				27710 Ch. 2310 MHz		
10 MHz	QPSK	1	0	22.84	0	0
		1	24	22.78	0	0
		1	49	22.86	0	0
		25	0	21.92	0-1	1
		25	12	21.94	0-1	1
		25	24	21.83	0-1	1
		50	0	21.87	0-1	1
	16QAM	1	0	22.43	0-1	1
		1	24	22.12	0-1	1
		1	49	22.09	0-1	1
		25	0	20.93	0-2	2
		25	12	20.95	0-2	2
		25	24	20.83	0-2	2
		50	0	20.84	0-2	2
	64QAM	1	0	21.29	0-2	2
		1	24	21.12	0-2	2
		1	49	20.91	0-2	2
		25	0	20.03	0-3	3
		25	12	20.00	0-3	3
		25	24	19.88	0-3	3
		50	0	19.75	0-3	3
	256QAM	1	0	17.92	0-5	5
		1	24	18.25	0-5	5
		1	49	17.73	0-5	5
		25	0	17.97	0-5	5
		25	12	18.05	0-5	5
		25	24	17.93	0-5	5
		50	0	17.95	0-5	5

[LTE TDD Band 38 Conducted Power]

LTE Band 38_ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				37775 Ch. 2572.5 MHz	38000 Ch. 2595 MHz	38225 Ch. 2617.5 MHz		
5 MHz	QPSK	1	0	23.69	23.99	24.07	0	0
		1	12	23.72	24.14	23.97	0	0
		1	24	23.74	24.08	24.00	0	0
		12	0	22.78	23.11	23.06	0-1	1
		12	6	22.83	23.13	22.88	0-1	1
		12	11	22.81	23.20	23.07	0-1	1
		25	0	22.80	23.11	23.08	0-1	1
	16QAM	1	0	22.84	23.22	23.23	0-1	1
		1	12	22.89	23.27	23.12	0-1	1
		1	24	22.87	23.21	23.17	0-1	1
		12	0	21.75	22.06	22.06	0-2	2
		12	6	21.81	22.11	22.09	0-2	2
		12	11	21.80	22.19	22.07	0-2	2
		25	0	21.81	22.12	22.10	0-2	2
	64QAM	1	0	21.46	21.73	21.88	0-2	2
		1	12	21.55	21.94	21.85	0-2	2
		1	24	21.48	21.85	21.79	0-2	2
		12	0	20.84	21.14	21.15	0-3	3
		12	6	20.90	21.23	21.21	0-3	3
		12	11	20.88	21.27	21.15	0-3	3
		25	0	20.87	21.17	21.16	0-3	3
	256QAM	1	0	18.77	19.06	19.04	0-5	4
		1	12	18.80	19.17	19.04	0-5	4
		1	24	18.79	19.04	18.96	0-5	4
		12	0	19.09	19.28	19.23	0-5	5
		12	6	19.10	19.31	19.32	0-5	5
		12	11	19.09	19.40	19.29	0-5	5
		25	0	19.04	19.20	19.18	0-5	5

LTE Band 38 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				37800 Ch. 2575 MHz	38000 Ch. 2595 MHz	38200 Ch. 2615 MHz		
10 MHz	QPSK	1	0	23.40	24.04	23.99	0	0
		1	24	23.68	24.06	23.95	0	0
		1	49	23.39	24.02	23.88	0	0
		25	0	22.73	23.01	22.93	0-1	1
		25	12	22.85	23.14	23.04	0-1	1
		25	24	22.75	23.13	23.04	0-1	1
		50	0	22.79	23.09	23.00	0-1	1
	16QAM	1	0	22.59	23.27	23.23	0-1	1
		1	24	22.86	23.21	23.12	0-1	1
		1	49	22.59	23.24	23.08	0-1	1
		25	0	21.74	22.11	21.98	0-2	2
		25	12	21.86	22.19	22.11	0-2	2
		25	24	21.76	22.15	22.07	0-2	2
		50	0	21.83	22.12	22.05	0-2	2
	64QAM	1	0	21.28	21.89	21.85	0-2	2
		1	24	21.55	21.92	21.87	0-2	2
		1	49	21.31	21.90	21.81	0-2	2
		25	0	20.86	21.13	21.10	0-3	3
		25	12	20.96	21.24	21.19	0-3	3
		25	24	20.86	21.25	21.15	0-3	3
		50	0	20.79	21.08	21.03	0-3	3
	256QAM	1	0	18.54	18.73	18.75	0-5	4
		1	24	18.81	19.13	19.03	0-5	4
		1	49	18.58	18.84	18.76	0-5	4
		25	0	18.98	19.16	19.11	0-5	5
		25	12	19.10	19.30	19.25	0-5	5
		25	24	19.01	19.29	19.21	0-5	5
		50	0	19.02	19.25	19.15	0-5	5

LTE Band 38 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				37825 Ch. 2577.5 MHz	38000 Ch. 2595 MHz	38175 Ch. 2612.5 MHz		
15 MHz	QPSK	1	0	23.66	23.93	23.99	0	0
		1	36	23.63	23.90	23.89	0	0
		1	74	23.67	23.89	23.89	0	0
		36	0	22.65	23.00	22.96	0-1	0
		36	18	22.79	23.08	23.02	0-1	0
		36	39	22.73	23.06	22.98	0-1	0
		75	0	22.73	22.98	22.95	0-1	1
	16QAM	1	0	22.86	23.14	23.25	0-1	1
		1	36	22.78	23.19	23.17	0-1	1
		1	74	22.87	23.14	23.10	0-1	1
		36	0	21.62	21.96	21.93	0-2	1
		36	18	21.82	22.08	21.99	0-2	1
		36	39	21.69	22.02	21.97	0-2	1
		75	0	21.77	22.05	22.02	0-2	2
	64QAM	1	0	21.40	21.71	21.77	0-2	2
		1	36	21.44	21.86	21.80	0-2	2
		1	74	21.48	21.71	21.74	0-2	2
		36	0	20.62	21.02	21.05	0-3	2
		36	18	20.81	21.07	21.03	0-3	2
		36	39	20.69	21.05	21.00	0-3	2
		75	0	20.79	21.03	20.97	0-3	3
	256QAM	1	0	18.52	18.65	18.72	0-5	5
		1	36	18.81	19.06	18.99	0-5	5
		1	74	18.69	18.83	18.73	0-5	5
		36	0	18.81	19.08	19.02	0-5	5
		36	18	18.99	19.14	19.10	0-5	5
		36	39	18.93	19.12	19.07	0-5	5
		75	0	18.90	19.07	19.01	0-5	5

LTE Band 38 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				37850 ch. 2580 MHz	38000 Ch. 2595 MHz	38150 ch. 2610 MHz		
20 MHz	QPSK	1	0	23.67	23.89	24.05	0	0
		1	49	23.61	23.92	23.91	0	0
		1	99	23.68	23.86	23.84	0	0
		50	0	22.60	22.92	22.92	0-1	0
		50	25	22.85	23.06	23.07	0-1	0
		50	49	22.73	23.02	22.97	0-1	0
		100	0	22.77	22.97	23.00	0-1	1
	16QAM	1	0	22.95	23.17	23.30	0-1	1
		1	49	22.84	23.17	23.18	0-1	1
		1	99	22.93	23.11	23.06	0-1	1
		50	0	21.66	21.99	21.95	0-2	1
		50	25	21.87	22.08	22.16	0-2	1
		50	49	21.76	22.05	21.99	0-2	1
		100	0	21.77	21.99	22.05	0-2	2
	64QAM	1	0	21.41	21.70	21.87	0-2	2
		1	49	21.50	21.79	21.83	0-2	2
		1	99	21.49	21.69	21.68	0-2	2
		50	0	20.65	20.99	20.98	0-3	2
		50	25	20.88	21.12	21.16	0-3	2
		50	49	20.78	21.05	21.00	0-3	2
		100	0	20.77	20.96	21.02	0-3	3
	256QAM	1	0	18.39	18.55	18.61	0-5	5
		1	49	18.82	19.01	18.96	0-5	5
		1	99	18.56	18.66	18.59	0-5	5
		50	0	18.86	19.09	19.07	0-5	5
		50	25	19.03	19.19	19.26	0-5	5
		50	49	18.97	19.12	19.12	0-5	5
		100	0	18.89	19.05	19.06	0-5	5

[LTE Band 40 Low Side (MCC310) Conducted Power]

LTE Band 40 Low Side (MCC310) _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				38725 Ch. 2307.5 MHz	38750 Ch. 2310 MHz	38775 Ch. 2312.5 MHz		
5 MHz	QPSK	1	0	13.00	12.95	12.97	0	0
		1	12	12.97	13.01	13.00	0	0
		1	24	12.91	12.92	12.93	0	0
		12	0	13.04	13.09	13.08	0-1	0
		12	6	13.13	13.10	13.12	0-1	0
		12	11	13.12	13.14	13.14	0-1	0
		25	0	13.13	13.10	13.09	0-1	0
	16QAM	1	0	13.15	13.06	13.15	0-1	0
		1	12	13.10	13.13	13.15	0-1	0
		1	24	13.12	13.08	13.11	0-1	0
		12	0	12.98	12.99	12.98	0-2	0
		12	6	13.09	13.06	13.05	0-2	0
		12	11	13.09	13.08	13.11	0-2	0
		25	0	13.11	13.09	13.10	0-2	0
	64QAM	1	0	12.91	12.88	12.92	0-2	0
		1	12	12.88	12.87	12.88	0-2	0
		1	24	12.84	12.81	12.84	0-2	0
		12	0	13.03	13.08	13.04	0-3	0
		12	6	13.09	13.09	13.11	0-3	0
		12	11	13.10	13.09	13.08	0-3	0
		25	0	13.04	13.06	13.05	0-3	0
	256QAM	1	0	12.58	12.74	12.77	0-5	0
		1	12	12.82	12.75	12.74	0-5	0
		1	24	12.66	12.65	12.67	0-5	0
		12	0	12.94	12.98	12.96	0-5	0
		12	6	13.03	13.06	13.03	0-5	0
		12	11	13.03	13.02	12.99	0-5	0
		25	0	12.95	12.92	12.90	0-5	0

LTE Band 40 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				38750 Ch. 2310 MHz		
10 MHz	QPSK	1	0	12.71	0	0
		1	24	12.98	0	0
		1	49	12.65	0	0
		25	0	13.03	0-1	0
		25	12	13.15	0-1	0
		25	24	13.00	0-1	0
		50	0	13.02	0-1	0
	16QAM	1	0	12.97	0-1	0
		1	24	13.13	0-1	0
		1	49	12.85	0-1	0
		25	0	13.06	0-2	0
		25	12	13.14	0-2	0
		25	24	13.03	0-2	0
		50	0	13.10	0-2	0
	64QAM	1	0	12.74	0-2	0
		1	24	12.95	0-2	0
		1	49	12.59	0-2	0
		25	0	13.01	0-3	0
		25	12	13.13	0-3	0
		25	24	12.98	0-3	0
		50	0	13.01	0-3	0
	256QAM	1	0	12.46	0-5	0
		1	24	12.70	0-5	0
		1	49	12.40	0-5	0
		25	0	12.93	0-5	0
		25	12	13.02	0-5	0
		25	24	12.89	0-5	0
		50	0	12.94	0-5	0

[LTE Band 40 Upper Side (MCC310) Conducted Power]

LTE Band 40 Upper Side (MCC310) _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				39175 Ch. 2352.5 MHz	39200 Ch. 2355 MHz	39225 Ch. 2357.5 MHz		
5 MHz	QPSK	1	0	12.89	12.93	13.00	0	0
		1	12	13.01	12.89	12.93	0	0
		1	24	12.84	12.84	12.87	0	0
		12	0	12.89	12.91	12.96	0-1	0
		12	6	12.95	12.97	13.00	0-1	0
		12	11	13.04	13.06	13.10	0-1	0
		25	0	13.04	13.05	13.05	0-1	0
	16QAM	1	0	13.03	13.05	13.08	0-1	0
		1	12	13.04	13.06	13.12	0-1	0
		1	24	13.03	13.01	13.05	0-1	0
		12	0	12.85	12.85	12.90	0-2	0
		12	6	12.90	12.93	12.94	0-2	0
		12	11	13.01	13.03	13.07	0-2	0
		25	0	13.03	13.04	13.07	0-2	0
	64QAM	1	0	12.63	12.61	12.65	0-2	0
		1	12	12.75	12.73	12.80	0-2	0
		1	24	12.62	12.65	12.66	0-2	0
		12	0	12.97	12.97	13.01	0-3	0
		12	6	13.03	13.08	13.06	0-3	0
		12	11	13.12	13.14	13.15	0-3	0
		25	0	13.08	13.10	13.09	0-3	0
	256QAM	1	0	12.63	12.63	12.66	0-5	0
		1	12	12.70	12.73	12.73	0-5	0
		1	24	12.63	12.67	12.64	0-5	0
		12	0	12.80	12.87	12.83	0-5	0
		12	6	12.97	12.90	12.90	0-5	0
		12	11	12.97	13.00	13.02	0-5	0
		25	0	12.87	12.83	12.84	0-5	0

LTE Band 40 Upper Side (MCC310) _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				39200Ch. 2355 MHz		
10 MHz	QPSK	1	0	12.59	0	0
		1	24	12.95	0	0
		1	49	12.55	0	0
		25	0	12.88	0-1	0
		25	12	12.97	0-1	0
		25	24	12.93	0-1	0
		50	0	12.94	0-1	0
	16QAM	1	0	12.93	0-1	0
		1	24	13.11	0-1	0
		1	49	12.81	0-1	0
		25	0	12.92	0-2	0
		25	12	12.95	0-2	0
		25	24	12.97	0-2	0
		50	0	13.03	0-2	0
	64QAM	1	0	12.49	0-2	0
		1	24	12.78	0-2	0
		1	49	12.48	0-2	0
		25	0	13.04	0-3	0
		25	12	13.08	0-3	0
		25	24	13.07	0-3	0
		50	0	13.02	0-3	0
	256QAM	1	0	12.36	0-5	0
		1	24	12.62	0-5	0
		1	49	12.39	0-5	0
		25	0	12.77	0-5	0
		25	12	12.87	0-5	0
		25	24	12.85	0-5	0
		50	0	12.82	0-5	0

[LTE Band 41 Conducted Power] - Power Class 3

LTE Band 41 _ 5 MHz Bandwidth - Power Class 3

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]					MPR Allowed Per GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 MHz	40185 Ch. 2549.5 MHz	40620 Ch. 2593.0 MHz	41055 Ch. 2636.5 MHz	41490 Ch. 2680.0 MHz		
5 MHz	QPSK	1	0	23.74	23.53	23.84	23.94	24.07	0	0
		1	12	23.65	23.54	23.88	23.96	24.07	0	0
		1	24	23.60	23.48	23.81	23.90	24.05	0	0
		12	0	22.80	22.62	22.89	23.02	23.14	0-1	0
		12	6	22.82	22.45	22.98	22.75	23.21	0-1	0
		12	11	22.71	22.61	22.96	23.02	23.20	0-1	0
		25	0	22.81	22.70	22.97	22.98	23.20	0-1	0
	16QAM	1	0	22.90	22.69	23.02	23.17	23.24	0-1	0
		1	12	22.81	22.66	23.02	23.09	23.21	0-1	0
		1	24	22.95	22.64	22.99	23.07	23.23	0-1	0
		12	0	21.80	21.69	21.85	22.00	22.09	0-2	1
		12	6	21.82	21.69	21.95	21.99	22.25	0-2	1
		12	11	21.69	21.67	21.93	22.08	22.17	0-2	1
		25	0	21.81	21.71	21.99	22.04	22.24	0-2	1
	64QAM	1	0	21.47	21.32	21.53	21.73	21.84	0-2	1
		1	12	21.50	21.43	21.66	21.82	21.94	0-2	1
		1	24	21.37	21.21	21.63	21.73	21.84	0-2	1
		12	0	20.90	20.77	20.92	21.05	21.19	0-3	2
		12	6	20.90	20.78	21.06	21.08	21.30	0-3	2
		12	11	20.79	20.76	21.02	21.15	21.29	0-3	2
		25	0	20.90	20.75	21.03	21.09	21.26	0-3	2
	256QAM	1	0	18.85	18.62	18.87	18.85	19.01	0-5	5
		1	12	18.85	18.63	18.94	18.93	19.10	0-5	5
		1	24	18.66	18.46	18.88	18.88	19.07	0-5	5
		12	0	19.11	18.89	19.08	19.10	19.24	0-5	5
		12	6	19.11	18.91	19.15	19.15	19.36	0-5	5
		12	11	19.01	18.89	19.18	19.19	19.35	0-5	5
		25	0	19.02	18.81	19.10	19.07	19.31	0-5	5

LTE Band 41 _ 10 MHz Bandwidth - Power Class 3

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]					MPR Allowed Per 3GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 MHz	40185 Ch. 2549.5 MHz	40620 Ch. 2593.0 MHz	41055 Ch. 2636.5 MHz	41490 Ch. 2680.0 MHz		
10 MHz	QPSK	1	0	23.60	23.23	23.57	23.56	23.66	0	0
		1	24	23.60	23.52	23.85	23.90	23.99	0	0
		1	49	23.54	23.16	23.58	23.54	23.73	0	0
		25	0	22.84	22.60	22.83	22.97	23.07	0-1	0
		25	12	22.82	22.68	23.00	23.03	23.24	0-1	0
		25	24	22.68	22.54	22.88	22.97	23.10	0-1	0
		50	0	22.77	22.63	22.93	22.98	23.20	0-1	0
	16QAM	1	0	22.89	22.44	22.76	22.91	22.97	0-1	0
		1	24	22.78	22.65	22.96	23.09	23.21	0-1	0
		1	49	22.71	22.40	22.72	22.83	22.97	0-1	0
		25	0	21.85	21.59	21.89	21.99	22.15	0-2	1
		25	12	21.86	21.73	22.03	22.07	22.29	0-2	1
		25	24	21.74	21.65	21.90	22.02	22.18	0-2	1
		50	0	21.79	21.63	21.98	22.01	22.21	0-2	1
	64QAM	1	0	21.56	21.16	21.39	21.57	21.59	0-2	1
		1	24	21.48	21.35	21.69	21.81	21.93	0-2	1
		1	49	21.37	21.06	21.39	21.58	21.68	0-2	1
		25	0	20.92	20.74	20.95	21.07	21.17	0-3	2
		25	12	20.97	20.83	21.07	21.13	21.34	0-3	2
		25	24	20.79	20.71	20.99	21.13	21.23	0-3	2
		50	0	20.81	20.66	20.94	21.05	21.23	0-3	2
	256QAM	1	0	18.63	18.37	18.63	19.14	19.26	0-5	5
		1	24	18.91	18.63	18.91	18.92	19.04	0-5	5
		1	49	18.47	18.24	18.65	18.64	18.84	0-5	5
		25	0	19.02	18.77	18.98	19.00	19.17	0-5	5
		25	12	19.10	18.85	19.17	19.08	19.33	0-5	5
		25	24	18.85	18.74	19.03	19.03	19.20	0-5	5
		50	0	19.01	18.79	19.11	19.06	19.30	0-5	5

LTE Band 41 _ 15 MHz Bandwidth- Power Class 3

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]					MPR Allowed Per 3GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 MHz	40185 Ch. 2549.5 MHz	40620 Ch. 2593.0 MHz	41055 Ch. 2636.5 MHz	41490 Ch. 2680.0 MHz		
15 MHz	QPSK	1	0	23.59	23.21	23.51	23.77	23.61	0	0
		1	36	23.47	23.33	23.67	23.80	23.92	0	0
		1	74	23.41	23.16	23.51	23.58	23.93	0	0
		36	0	22.71	22.47	22.72	22.93	22.96	0-1	0
		36	18	22.69	22.51	22.87	22.93	23.05	0-1	0
		36	39	22.56	22.42	22.79	22.87	23.13	0-1	0
		75	0	22.64	22.42	22.79	22.86	23.06	0-1	0
	16QAM	1	0	22.83	22.44	22.67	23.03	22.89	0-1	0
		1	36	22.68	22.56	22.90	23.06	23.15	0-1	0
		1	74	22.63	22.35	22.72	22.79	23.20	0-1	0
		36	0	21.69	21.44	21.72	21.90	21.92	0-2	1
		36	18	21.65	21.53	21.84	21.92	22.03	0-2	1
		36	39	21.52	21.41	21.82	21.85	22.11	0-2	1
		75	0	21.68	21.50	21.83	21.88	22.12	0-2	1
	64QAM	1	0	21.46	21.03	21.22	21.54	21.47	0-2	1
		1	36	21.34	21.17	21.54	21.72	21.90	0-2	1
		1	74	21.22	20.84	21.34	21.37	21.79	0-2	1
		36	0	20.70	20.51	20.73	20.93	20.98	0-3	2
		36	18	20.68	20.55	20.87	20.93	21.09	0-3	2
		36	39	20.55	20.42	20.82	20.87	21.20	0-3	2
		75	0	20.63	20.50	20.87	20.91	21.11	0-3	2
	256QAM	1	0	18.66	18.33	18.53	18.71	18.59	0-5	5
		1	36	18.69	18.46	18.76	18.79	18.95	0-5	5
		1	74	18.48	18.18	18.61	18.56	18.93	0-5	5
		36	0	18.86	18.61	18.80	18.91	18.95	0-5	5
		36	18	18.93	18.65	18.99	18.92	19.06	0-5	5
		36	39	18.81	18.58	18.94	18.89	19.17	0-5	5
		75	0	18.87	18.59	18.93	18.86	19.10	0-5	5

LTE Band 41 _ 20 MHz Bandwidth - Power Class 3

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]					MPR Allowed Per 3GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 MHz	40185 Ch. 2549.5 MHz	40620 Ch. 2593.0 MHz	41055 Ch. 2636.5 MHz	41490 Ch. 2680.0 MHz		
20 MHz	QPSK	1	0	23.56	23.45	23.36	23.65	23.88	0	0
		1	49	23.48	23.34	23.67	23.77	23.85	0	0
		1	99	23.42	23.31	23.37	23.30	23.81	0	0
		50	0	22.71	22.51	22.66	22.89	23.13	0-1	0
		50	25	22.70	22.50	22.87	22.91	22.89	0-1	0
		50	49	22.51	22.45	22.75	22.82	23.11	0-1	0
		100	0	22.61	22.40	22.76	22.81	22.94	0-1	0
	16QAM	1	0	22.87	22.66	22.52	22.90	22.73	0-1	0
		1	49	22.72	22.55	22.86	23.06	23.18	0-1	0
		1	99	22.59	22.53	22.55	22.56	23.09	0-1	0
		50	0	21.73	21.57	21.72	21.94	21.90	0-2	1
		50	25	21.69	21.56	21.89	21.96	22.21	0-2	1
		50	49	21.53	21.53	21.82	21.82	22.16	0-2	1
		100	0	21.67	21.45	21.80	21.83	21.99	0-2	1
	64QAM	1	0	21.45	21.26	21.12	21.42	21.33	0-2	1
		1	49	21.28	21.16	21.48	21.70	21.80	0-2	1
		1	99	21.15	21.02	21.16	21.14	21.76	0-2	1
		50	0	20.76	20.57	20.70	20.92	20.92	0-3	2
		50	25	20.70	20.57	20.91	20.97	21.16	0-3	2
		50	49	20.51	20.49	20.80	20.84	21.18	0-3	2
		100	0	20.65	20.42	20.83	20.84	20.97	0-3	2
	256QAM	1	0	18.50	18.22	18.44	18.61	18.47	0-5	5
		1	49	18.73	18.42	18.76	18.79	18.88	0-5	5
		1	99	18.30	17.98	18.46	18.37	18.83	0-5	5
		50	0	18.87	18.61	18.86	18.96	18.96	0-5	5
		50	25	18.94	18.69	19.04	18.97	19.21	0-5	5
		50	49	18.75	18.52	18.92	18.88	19.23	0-5	5
		100	0	18.83	18.54	18.89	18.84	19.02	0-5	5

Note; LTE Band 41 has 5 required test channels per FCC KDB 447498 D01v06.

[LTE Band 41 Conducted Power] - Power Class 2

LTE Band 41 _ 5 MHz Bandwidth - Power Class 2

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]					MPR Allowed Per GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 MHz	40185 Ch. 2549.5 MHz	40620 Ch. 2593.0 MHz	41055 Ch. 2636.5 MHz	41490 Ch. 2680.0 MHz		
5 MHz	QPSK	1	0	27.18	26.88	27.11	27.25	27.42	0	0
		1	12	27.02	26.81	27.10	27.22	27.29	0	0
		1	24	27.09	26.81	27.12	27.24	27.40	0	0
		12	0	26.28	26.01	26.25	26.34	26.49	0-1	0
		12	6	26.25	26.01	26.32	26.38	26.56	0-1	0
		12	11	26.15	25.97	26.28	26.36	26.54	0-1	0
		25	0	26.30	26.07	26.37	26.36	26.62	0-1	0
	16QAM	1	0	26.32	26.16	26.35	26.41	26.35	0-1	0
		1	12	26.28	26.13	26.27	26.32	26.34	0-1	0
		1	24	26.22	26.10	26.39	26.40	26.43	0-1	0
		12	0	25.30	25.14	25.35	25.37	25.57	0-2	1
		12	6	25.35	25.12	25.42	25.47	25.67	0-2	1
		12	11	25.27	25.07	25.48	25.51	25.68	0-2	1
		25	0	25.35	25.13	25.44	25.43	25.69	0-2	1
	64QAM	1	0	25.25	25.01	25.21	25.29	25.32	0-2	1
		1	12	25.26	25.06	25.33	25.42	25.43	0-2	1
		1	24	25.17	24.91	25.28	25.35	25.44	0-2	1
		12	0	24.40	24.21	24.39	24.49	24.62	0-3	2
		12	6	24.45	24.25	24.52	24.50	24.72	0-3	2
		12	11	24.33	24.15	24.42	24.57	24.72	0-3	2
		25	0	24.39	24.17	24.50	24.51	24.76	0-3	2
	256QAM	1	0	22.13	21.87	22.26	22.26	22.41	0-5	5
		1	12	22.12	21.92	22.30	22.23	22.46	0-5	5
		1	24	22.07	21.79	22.26	22.27	22.38	0-5	5
		12	0	22.26	21.99	22.27	22.28	22.41	0-5	5
		12	6	22.26	22.04	22.38	22.34	22.48	0-5	5
		12	11	22.18	22.03	22.34	22.35	22.46	0-5	5
		25	0	22.21	21.97	22.29	22.20	22.43	0-5	5

LTE Band 41 _ 10 MHz Bandwidth - Power Class 2

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]					MPR Allowed Per 3GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 MHz	40185 Ch. 2549.5 MHz	40620 Ch. 2593.0 MHz	41055 Ch. 2636.5 MHz	41490 Ch. 2680.0 MHz		
10 MHz	QPSK	1	0	26.94	26.56	26.69	26.80	26.87	0	0
		1	24	26.92	26.73	27.08	27.10	27.20	0	0
		1	49	26.89	26.51	26.68	26.78	26.81	0	0
		25	0	26.32	25.98	26.23	26.30	26.46	0-1	0
		25	12	26.32	26.09	26.37	26.40	26.64	0-1	0
		25	24	26.22	25.96	26.27	26.33	26.52	0-1	0
		50	0	26.27	26.00	26.33	26.33	26.60	0-1	0
	16QAM	1	0	26.62	26.04	26.33	26.45	26.62	0-1	0
		1	24	26.44	26.23	26.49	26.61	26.76	0-1	0
		1	49	26.46	25.93	26.30	26.35	26.58	0-1	0
		25	0	25.43	25.11	25.35	25.47	25.63	0-2	1
		25	12	25.44	25.16	25.50	25.50	25.79	0-2	1
		25	24	25.31	25.06	25.39	25.43	25.68	0-2	1
		50	0	25.38	25.04	25.44	25.38	25.73	0-2	1
	64QAM	1	0	25.69	25.05	25.27	25.42	25.66	0-2	1
		1	24	25.66	25.24	25.70	25.85	26.25	0-2	1
		1	49	25.54	24.96	25.34	25.43	26.07	0-2	1
		25	0	24.52	24.17	24.39	24.50	24.67	0-3	2
		25	12	24.51	24.26	24.55	24.53	24.84	0-3	2
		25	24	24.39	24.17	24.41	24.52	24.72	0-3	2
		50	0	24.36	24.13	24.40	24.44	24.67	0-3	2
	256QAM	1	0	22.19	21.88	22.22	22.26	22.39	0-5	5
		1	24	22.22	21.85	22.17	22.24	22.41	0-5	5
		1	49	21.75	21.54	21.96	21.98	22.15	0-5	5
		25	0	22.14	21.92	22.12	22.15	22.32	0-5	5
		25	12	22.26	21.99	22.32	22.26	22.47	0-5	5
		25	24	22.01	21.86	22.24	22.19	22.38	0-5	5
		50	0	22.18	21.94	22.26	22.20	22.42	0-5	5

LTE Band 41 _ 15 MHz Bandwidth- Power Class 2

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]					MPR Allowed Per 3GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 MHz	40185 Ch. 2549.5 MHz	40620 Ch. 2593.0 MHz	41055 Ch. 2636.5 MHz	41490 Ch. 2680.0 MHz		
15 MHz	QPSK	1	0	26.95	26.51	26.78	26.96	26.79	0	0
		1	36	26.84	26.63	26.92	26.98	26.99	0	0
		1	74	26.83	26.43	26.82	26.79	26.97	0	0
		36	0	26.26	25.85	26.13	26.26	26.36	0-1	0
		36	18	26.22	25.96	26.29	26.27	26.49	0-1	0
		36	39	26.06	25.83	26.24	26.23	26.54	0-1	0
		75	0	26.16	25.85	26.19	26.21	26.45	0-1	0
	16QAM	1	0	26.69	26.08	26.37	26.63	26.67	0-1	0
		1	36	26.73	26.22	26.62	26.81	27.00	0-1	0
		1	74	26.46	25.94	26.39	26.41	27.03	0-1	0
		36	0	25.30	24.92	25.14	25.32	25.42	0-2	1
		36	18	25.25	24.98	25.29	25.36	25.56	0-2	1
		36	39	25.09	24.84	25.23	25.28	25.62	0-2	1
		75	0	25.19	24.91	25.27	25.30	25.54	0-2	1
	64QAM	1	0	25.75	25.00	25.23	25.59	25.70	0-2	1
		1	36	25.58	25.06	25.48	25.66	26.05	0-2	1
		1	74	25.42	24.77	25.39	25.40	26.22	0-2	1
		36	0	24.27	23.92	24.18	24.35	24.43	0-3	2
		36	18	24.23	23.96	24.32	24.35	24.55	0-3	2
		36	39	24.11	23.88	24.26	24.30	24.61	0-3	2
		75	0	24.21	23.94	24.26	24.29	24.57	0-3	2
	256QAM	1	0	22.06	21.69	21.90	22.12	21.98	0-5	5
		1	36	22.14	21.81	22.20	22.21	22.32	0-5	5
		1	74	21.87	21.51	22.03	21.93	22.32	0-5	5
		36	0	22.10	21.87	22.10	22.15	22.31	0-5	5
		36	18	22.18	21.82	22.25	22.19	22.32	0-5	5
		36	39	22.01	21.80	22.23	22.13	22.44	0-5	5
		75	0	22.09	21.79	22.20	22.07	22.39	0-5	5

LTE Band 41 _ 20 MHz Bandwidth - Power Class 2

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]					MPR Allowed Per 3GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 MHz	40185 Ch. 2549.5 MHz	40620 Ch. 2593.0 MHz	41055 Ch. 2636.5 MHz	41490 Ch. 2680.0 MHz		
20 MHz	QPSK	1	0	26.92	26.67	26.59	26.85	27.03	0	0
		1	49	26.85	26.63	26.89	26.96	26.98	0	0
		1	99	26.75	26.53	26.60	26.52	26.87	0	0
		50	0	26.27	25.92	26.07	26.24	26.55	0-1	0
		50	25	26.24	25.91	26.28	26.30	26.47	0-1	0
		50	49	26.08	25.88	26.21	26.20	26.52	0-1	0
		100	0	26.14	25.81	26.16	26.18	26.37	0-1	0
	16QAM	1	0	26.80	26.31	26.22	26.53	26.50	0-1	0
		1	49	26.53	26.21	26.59	26.71	26.97	0-1	0
		1	99	26.44	26.10	26.22	26.22	26.97	0-1	0
		50	0	25.32	24.99	25.14	25.31	25.37	0-2	1
		50	25	25.29	24.97	25.32	25.38	25.60	0-2	1
		50	49	25.11	24.90	25.25	25.26	25.63	0-2	1
		100	0	25.18	24.84	25.23	25.27	25.47	0-2	1
	64QAM	1	0	25.88	25.24	25.06	25.45	25.49	0-2	1
		1	49	25.41	25.12	25.49	25.66	26.06	0-2	1
		1	99	25.34	24.94	25.20	25.18	26.22	0-2	1
		50	0	24.32	24.02	24.15	24.32	24.38	0-3	2
		50	25	24.32	24.00	24.29	24.36	24.61	0-3	2
		50	49	24.08	23.89	24.21	24.21	24.63	0-3	2
		100	0	24.20	23.86	24.20	24.25	24.44	0-3	2
	256QAM	1	0	21.93	21.54	21.82	21.99	21.85	0-5	5
		1	49	22.18	21.80	22.18	22.20	22.33	0-5	5
		1	99	21.71	21.30	21.85	21.70	22.26	0-5	5
		50	0	22.12	21.79	22.09	22.17	22.21	0-5	5
		50	25	22.17	21.89	22.27	22.22	22.44	0-5	5
		50	49	22.00	21.74	22.20	22.10	22.43	0-5	5
		100	0	22.06	21.75	22.15	22.09	22.21	0-5	5

Note; LTE Band 41 has 5 required test channels per FCC KDB 447498 D01v06.

[LTE Band 48 Conducted Power]

LTE Band 48 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55265 Ch. 3552.5 MHz	55748 Ch. 3600.8 MHz	56232 Ch. 3649.2 MHz	56715 Ch. 3697.5 MHz		
5 MHz	QPSK	1	0	22.05	22.29	22.21	21.93	0	0
		1	12	22.18	22.42	22.35	22.08	0	0
		1	24	22.12	22.40	22.30	22.01	0	0
		12	0	21.20	21.45	21.38	21.03	0-1	1
		12	6	21.27	21.52	21.42	21.09	0-1	1
		12	11	21.28	21.50	21.46	21.07	0-1	1
		25	0	21.23	21.49	21.39	21.05	0-1	1
	16QAM	1	0	21.21	21.38	21.31	20.98	0-1	1
		1	12	21.34	21.49	21.43	21.08	0-1	1
		1	24	21.33	21.52	21.38	21.07	0-1	1
		12	0	20.17	20.38	20.31	19.92	0-2	2
		12	6	20.26	20.45	20.38	20.03	0-2	2
		12	11	20.28	20.50	20.37	19.99	0-2	2
		25	0	20.23	20.52	20.42	20.07	0-2	2
	64QAM	1	0	19.85	19.88	19.90	19.59	0-2	2
		1	12	20.04	20.07	20.05	19.68	0-2	2
		1	24	19.98	20.14	19.94	19.74	0-2	2
		12	0	19.27	19.36	19.30	18.97	0-3	3
		12	6	19.34	19.46	19.40	19.06	0-3	3
		12	11	19.35	19.47	19.40	19.06	0-3	3
		25	0	19.29	19.52	19.42	19.03	0-3	3
	256QAM	1	0	16.97	17.17	17.18	16.80	0-5	5
		1	12	17.14	17.40	17.33	16.93	0-5	5
		1	24	17.10	17.36	17.15	16.90	0-5	5
		12	0	17.34	17.59	17.51	17.13	0-5	5
		12	6	17.42	17.67	17.53	17.21	0-5	5
		12	11	17.47	17.69	17.58	17.25	0-5	5
		25	0	17.32	17.57	17.49	17.14	0-5	5

LTE Band 48 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55290 Ch. 3555 MHz	55757 Ch. 3601.7 MHz	56223 Ch. 3648.3 MHz	56690 Ch. 3695 MHz		
10 MHz	QPSK	1	0	22.32	22.41	22.41	22.21	0	0
		1	24	22.23	22.51	22.44	22.23	0	0
		1	49	22.28	22.49	22.40	22.28	0	0
		25	0	21.16	21.30	21.33	21.14	0-1	1
		25	12	21.31	21.54	21.46	21.30	0-1	1
		25	24	21.23	21.48	21.31	21.27	0-1	1
		50	0	21.20	21.45	21.35	21.21	0-1	1
	16QAM	1	0	21.38	21.51	21.51	21.42	0-1	1
		1	24	21.30	21.52	21.49	21.37	0-1	1
		1	49	21.36	21.62	21.51	21.47	0-1	1
		25	0	20.23	20.32	20.37	20.17	0-2	2
		25	12	20.31	20.55	20.50	20.33	0-2	2
		25	24	20.26	20.52	20.34	20.27	0-2	2
		50	0	20.25	20.45	20.41	20.25	0-2	2
	64QAM	1	0	19.97	20.05	20.08	20.02	0-2	2
		1	24	19.88	20.13	20.05	20.02	0-2	2
		1	49	19.95	20.21	20.02	20.07	0-2	2
		25	0	19.19	19.31	19.35	19.28	0-3	3
		25	12	19.36	19.54	19.47	19.38	0-3	3
		25	24	19.27	19.53	19.39	19.36	0-3	3
		50	0	19.25	19.51	19.48	19.26	0-3	3
	256QAM	1	0	16.82	16.95	16.98	16.80	0-5	5
		1	24	17.17	17.38	17.30	17.18	0-5	5
		1	49	16.96	17.25	17.05	17.03	0-5	5
		25	0	17.24	17.37	17.42	17.23	0-5	5
		25	12	17.37	17.63	17.55	17.37	0-5	5
		25	24	17.35	17.60	17.41	17.37	0-5	5
		50	0	17.37	17.60	17.52	17.35	0-5	5

LTE Band 48 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55315Ch. 3557.5 MHz	55765 Ch. 3602.5 MHz	56215 Ch. 3647.5 MHz	56665 Ch. 3692.5 MHz		
15 MHz	QPSK	1	0	22.24	22.38	22.37	22.17	0	0
		1	36	22.15	22.41	22.34	22.05	0	0
		1	74	22.09	22.42	22.31	22.12	0	0
		36	0	21.19	21.35	21.35	21.15	0-1	1
		36	18	21.23	21.47	21.41	21.22	0-1	1
		36	39	21.15	21.42	21.27	21.19	0-1	1
		75	0	21.19	21.41	21.36	21.16	0-1	1
	16QAM	1	0	21.23	21.33	21.36	21.16	0-1	1
		1	36	21.07	21.32	21.30	21.14	0-1	1
		1	74	21.12	21.41	21.25	21.17	0-1	1
		36	0	20.14	20.32	20.28	20.11	0-2	2
		36	18	20.19	20.43	20.37	20.15	0-2	2
		36	39	20.14	20.39	20.27	20.12	0-2	2
		75	0	20.19	20.43	20.36	20.17	0-2	2
	64QAM	1	0	19.89	19.98	20.05	19.81	0-2	2
		1	36	19.83	20.05	20.04	19.85	0-2	2
		1	74	19.85	20.13	19.92	19.88	0-2	2
		36	0	19.18	19.35	19.34	19.19	0-3	3
		36	18	19.29	19.51	19.46	19.26	0-3	3
		36	39	19.17	19.44	19.31	19.18	0-3	3
		75	0	19.21	19.47	19.42	19.22	0-3	3
	256QAM	1	0	16.86	17.15	17.11	16.92	0-5	5
		1	36	17.09	17.33	17.27	17.04	0-5	5
		1	74	16.99	17.17	17.03	16.91	0-5	5
		36	0	17.24	17.42	17.38	17.19	0-5	5
		36	18	17.31	17.54	17.47	17.26	0-5	5
		36	39	17.27	17.51	17.37	17.26	0-5	5
		75	0	17.24	17.47	17.42	17.20	0-5	5

LTE Band 48 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55340Ch. 3560.0 MHz	55773 Ch. 3603.3 MHz	56207 Ch. 3646.7 MHz	56640 Ch. 3690.0 MHz		
20 MHz	QPSK	1	0	22.28	22.36	22.43	22.40	0	0
		1	49	22.12	22.37	22.32	22.28	0	0
		1	99	22.30	22.46	22.45	22.19	0	0
		50	0	21.14	21.33	21.30	21.13	0-1	1
		50	25	21.26	21.45	21.42	21.25	0-1	1
		50	49	21.19	21.35	21.26	21.15	0-1	1
		100	0	21.16	21.38	21.33	21.15	0-1	1
	16QAM	1	0	21.22	21.33	21.39	21.18	0-1	1
		1	49	21.14	21.37	21.31	21.12	0-1	1
		1	99	21.21	21.45	21.30	21.17	0-1	1
		50	0	20.19	20.33	20.31	20.17	0-2	2
		50	25	20.27	20.52	20.44	20.28	0-2	2
		50	49	20.19	20.40	20.30	20.18	0-2	2
		100	0	20.21	20.41	20.36	20.20	0-2	2
	64QAM	1	0	19.95	19.99	20.12	19.89	0-2	2
		1	49	19.85	20.04	20.01	19.81	0-2	2
		1	99	19.86	20.13	19.94	19.88	0-2	2
		50	0	19.22	19.43	19.39	19.24	0-3	3
		50	25	19.35	19.56	19.51	19.33	0-3	3
		50	49	19.28	19.47	19.35	19.25	0-3	3
		100	0	19.20	19.45	19.36	19.23	0-3	3
	256QAM	1	0	16.82	17.04	16.95	16.78	0-5	5
		1	49	17.11	17.30	17.24	17.02	0-5	5
		1	99	16.88	17.00	16.89	16.80	0-5	5
		50	0	17.24	17.38	17.45	17.24	0-5	5
		50	25	17.33	17.59	17.55	17.31	0-5	5
		50	49	17.28	17.48	17.37	17.27	0-5	5
		100	0	17.22	17.45	17.39	17.21	0-5	5

[LTE Band 66_Main #2 Ant. Conducted Power]

LTE Band 66 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131979Ch. 1710.7 MHz	132322 Ch. 1745 MHz	132665 Ch. 1779.3 MHz		
1.4 MHz	QPSK	1	0	24.25	24.27	24.12	0	0
		1	3	24.18	24.34	24.05	0	0
		1	5	24.37	24.22	23.84	0	0
		3	0	24.21	24.31	23.95	0	0
		3	1	24.26	24.36	24.06	0	0
		3	3	24.16	24.26	23.87	0	0
		6	0	23.38	23.42	23.04	0-1	0
	16QAM	1	0	23.56	23.53	23.29	0-1	0
		1	3	23.56	23.60	23.36	0-1	0
		1	5	23.88	23.73	23.15	0-1	0
		3	0	23.43	23.38	22.98	0-1	1
		3	1	23.42	23.33	23.14	0-1	1
		3	3	23.30	23.32	23.07	0-1	1
		6	0	22.47	22.54	21.65	0-2	1
	64QAM	1	0	22.46	22.61	22.05	0-2	1
		1	3	22.54	22.68	22.19	0-2	1
		1	5	22.34	22.51	21.95	0-2	1
		3	0	22.45	22.48	22.03	0-2	2
		3	1	22.41	22.51	21.60	0-2	2
		3	3	22.41	22.52	21.48	0-2	2
		6	0	21.25	21.46	20.95	0-3	2
	256QAM	1	0	19.27	19.40	19.52	0-5	5
		1	3	19.34	19.58	19.29	0-5	5
		1	5	19.37	19.59	19.21	0-5	5
		3	0	19.50	19.68	19.30	0-5	5
		3	1	19.43	19.60	19.33	0-5	5
		3	3	19.33	19.43	19.24	0-5	5
		6	0	19.21	19.37	19.09	0-5	5

LTE Band 66 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131987 Ch. 1711.5 MHz	132322 Ch. 1745 MHz	132657 Ch. 1778.5 MHz		
3 MHz	QPSK	1	0	24.27	24.46	24.07	0	0
		1	7	24.23	24.38	24.17	0	0
		1	14	24.27	24.31	23.96	0	0
		8	0	23.43	23.43	23.12	0-1	0
		8	3	23.49	23.48	23.10	0-1	0
		8	7	23.37	23.49	23.10	0-1	0
		15	0	23.48	23.35	23.23	0-1	0
	16QAM	1	0	23.72	23.64	23.73	0-1	0
		1	7	23.75	23.44	23.50	0-1	0
		1	14	23.88	23.67	23.46	0-1	0
		8	0	22.48	22.47	22.24	0-2	1
		8	3	22.55	22.51	22.22	0-2	1
		8	7	22.40	22.46	22.25	0-2	1
		15	0	22.42	22.46	22.15	0-2	1
	64QAM	1	0	22.54	22.45	22.24	0-2	1
		1	7	22.51	22.56	22.35	0-2	1
		1	14	22.53	22.59	22.05	0-2	1
		8	0	21.47	21.39	21.20	0-3	2
		8	3	21.53	21.51	21.31	0-3	2
		8	7	21.43	21.50	21.18	0-3	2
		15	0	21.52	21.42	21.21	0-3	2
	256QAM	1	0	19.46	19.49	19.48	0-5	5
		1	7	19.43	19.60	19.23	0-5	5
		1	14	19.46	19.69	19.32	0-5	5
		8	0	19.40	19.52	19.32	0-5	5
		8	3	19.43	19.51	19.26	0-5	5
		8	7	19.37	19.50	19.23	0-5	5
		15	0	19.48	19.51	19.29	0-5	5

LTE Band 66 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131997 Ch. 1712.5 MHz	132322 Ch. 1745 MHz	132647 Ch. 1777.5 MHz		
5 MHz	QPSK	1	0	24.21	24.34	24.09	0	0
		1	12	24.33	24.47	23.97	0	0
		1	24	24.21	24.21	23.91	0	0
		12	0	23.43	23.42	23.15	0-1	0
		12	6	23.52	23.38	23.25	0-1	0
		12	11	23.42	23.53	23.22	0-1	0
		25	0	23.42	23.37	23.11	0-1	0
	16QAM	1	0	23.34	23.30	23.26	0-1	0
		1	12	23.88	23.71	23.32	0-1	0
		1	24	23.56	23.63	23.67	0-1	0
		12	0	22.42	22.42	22.19	0-2	1
		12	6	22.52	22.44	22.14	0-2	1
		12	11	22.36	22.43	22.22	0-2	1
		25	0	22.45	22.40	22.16	0-2	1
	64QAM	1	0	22.45	22.57	22.34	0-2	1
		1	12	22.47	22.57	22.25	0-2	1
		1	24	22.50	22.56	22.33	0-2	1
		12	0	21.39	21.46	21.31	0-3	2
		12	6	21.52	21.50	21.24	0-3	2
		12	11	21.49	21.59	21.14	0-3	2
		25	0	21.38	21.29	21.20	0-3	2
	256QAM	1	0	19.59	19.61	19.37	0-5	5
		1	12	19.58	19.61	19.37	0-5	5
		1	24	19.49	19.40	19.37	0-5	5
		12	0	19.58	19.59	19.37	0-5	5
		12	6	19.48	19.59	19.30	0-5	5
		12	11	19.45	19.50	19.32	0-5	5
		25	0	19.55	19.43	19.27	0-5	5

LTE Band 66 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132022 Ch. 1715 MHz	132322 Ch. 1745 MHz	132622 Ch. 1775 MHz		
10 MHz	QPSK	1	0	23.81	24.06	23.78	0	0
		1	24	24.24	24.26	23.94	0	0
		1	49	24.15	24.07	23.81	0	0
		25	0	23.25	23.36	23.14	0-1	0
		25	12	23.42	23.42	23.21	0-1	0
		25	24	23.39	23.30	23.10	0-1	0
		50	0	23.36	23.31	23.13	0-1	0
	16QAM	1	0	23.42	23.60	23.35	0-1	0
		1	24	23.50	23.69	23.60	0-1	0
		1	49	23.40	23.43	23.20	0-1	0
		25	0	22.32	22.31	22.17	0-2	1
		25	12	22.49	22.40	22.33	0-2	1
		25	24	22.42	22.37	22.20	0-2	1
		50	0	22.47	22.35	22.19	0-2	1
	64QAM	1	0	22.32	22.11	22.00	0-2	1
		1	24	22.41	22.64	22.47	0-2	1
		1	49	22.43	22.40	22.08	0-2	1
		25	0	21.34	21.39	21.23	0-3	2
		25	12	21.47	21.51	21.28	0-3	2
		25	24	21.44	21.39	21.22	0-3	2
		50	0	21.38	21.30	21.16	0-3	2
	256QAM	1	0	19.28	19.10	19.25	0-5	5
		1	24	19.47	19.69	19.43	0-5	5
		1	49	19.52	19.41	19.01	0-5	5
		25	0	19.41	19.40	19.23	0-5	5
		25	12	19.55	19.46	19.44	0-5	5
		25	24	19.45	19.48	19.26	0-5	5
		50	0	19.52	19.38	19.32	0-5	5

LTE Band 66 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132047 Ch. 1717.5 MHz	132322 Ch. 1745 MHz	132597 Ch. 1772.5 MHz		
15 MHz	QPSK	1	0	24.01	23.90	23.99	0	0
		1	36	24.18	24.09	24.08	0	0
		1	74	24.08	24.12	24.03	0	0
		36	0	23.34	23.30	23.09	0-1	0
		36	18	23.39	23.38	23.11	0-1	0
		36	39	23.37	23.21	23.04	0-1	0
		75	0	23.38	23.21	23.16	0-1	0
	16QAM	1	0	23.53	23.53	23.49	0-1	0
		1	36	23.53	23.66	23.31	0-1	0
		1	74	23.61	23.43	23.42	0-1	0
		36	0	22.28	22.24	22.07	0-2	1
		36	18	22.39	22.33	22.14	0-2	1
		36	39	22.37	22.35	22.09	0-2	1
		75	0	22.37	22.30	22.18	0-2	1
	64QAM	1	0	22.10	22.16	22.32	0-2	1
		1	36	22.43	22.43	22.15	0-2	1
		1	74	22.37	22.36	22.18	0-2	1
		36	0	21.32	21.33	21.18	0-3	2
		36	18	21.39	21.39	21.17	0-3	2
		36	39	21.37	21.33	21.14	0-3	2
		75	0	21.37	21.28	21.13	0-3	2
	256QAM	1	0	19.27	19.30	19.12	0-5	5
		1	36	19.49	19.51	19.17	0-5	5
		1	74	19.40	19.32	19.06	0-5	5
		36	0	19.37	19.36	19.31	0-5	5
		36	18	19.54	19.45	19.28	0-5	5
		36	39	19.49	19.40	19.25	0-5	5
		75	0	19.43	19.40	19.16	0-5	5

LTE Band 66 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132072 Ch. 1720 MHz	132322 Ch. 1745 MHz	132572 Ch. 1770 MHz		
20 MHz	QPSK	1	0	23.85	23.94	24.04	0	0
		1	49	24.17	24.15	23.98	0	0
		1	99	23.94	23.92	23.86	0	0
		50	0	23.20	23.24	23.23	0-1	0
		50	25	23.43	23.35	23.41	0-1	0
		50	49	23.35	23.21	23.34	0-1	0
		100	0	23.28	23.32	23.35	0-1	0
	16QAM	1	0	23.43	23.32	22.99	0-1	0
		1	49	23.41	23.39	23.53	0-1	0
		1	99	23.38	23.39	23.35	0-1	0
		50	0	22.17	22.22	22.12	0-2	1
		50	25	22.46	22.34	22.46	0-2	1
		50	49	22.38	22.20	22.26	0-2	1
		100	0	22.29	22.20	22.31	0-2	1
	64QAM	1	0	22.00	22.04	21.96	0-2	1
		1	49	22.47	22.57	22.47	0-2	1
		1	99	22.43	22.16	22.30	0-2	1
		50	0	21.32	21.27	21.25	0-3	2
		50	25	21.39	21.33	21.46	0-3	2
		50	49	21.30	21.30	21.31	0-3	2
		100	0	21.30	21.30	21.31	0-3	2
	256QAM	1	0	19.05	19.14	19.05	0-5	5
		1	49	19.50	19.56	19.27	0-5	5
		1	99	19.40	19.30	19.04	0-5	5
		50	0	19.33	19.34	19.25	0-5	5
		50	25	19.54	19.43	19.27	0-5	5
		50	49	19.48	19.33	19.11	0-5	5
		100	0	19.46	19.31	19.27	0-5	5

[LTE Band 66_Sub #1 Ant. Conducted Power]

LTE Band 66 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131979Ch. 1710.7 MHz	132322 Ch. 1745 MHz	132665 Ch. 1779.3 MHz		
1.4 MHz	QPSK	1	0	21.86	21.74	21.18	0	0
		1	3	21.79	21.73	21.13	0	0
		1	5	21.79	21.73	21.18	0	0
		3	0	21.76	21.82	21.18	0	0
		3	1	21.82	21.82	21.16	0	0
		3	3	21.79	21.82	21.20	0	0
		6	0	20.91	20.82	20.33	0-1	0
	16QAM	1	0	20.92	20.81	20.32	0-1	0
		1	3	20.88	20.80	20.32	0-1	0
		1	5	20.86	20.80	20.27	0-1	0
		3	0	20.88	20.78	20.27	0-1	1
		3	1	20.93	20.81	20.30	0-1	1
		3	3	20.89	20.80	20.34	0-1	1
		6	0	20.00	19.83	19.40	0-2	1
	64QAM	1	0	20.00	19.81	19.42	0-2	1
		1	3	20.00	19.87	19.37	0-2	1
		1	5	19.98	19.88	19.41	0-2	1
		3	0	20.03	19.85	19.42	0-2	2
		3	1	19.98	19.83	19.41	0-2	2
		3	3	20.01	19.87	19.38	0-2	2
		6	0	18.90	18.75	18.36	0-3	2
	256QAM	1	0	16.35	16.66	16.30	0-5	5
		1	3	16.87	16.83	16.10	0-5	5
		1	5	16.85	16.61	16.09	0-5	5
		3	0	17.14	16.97	16.13	0-5	5
		3	1	16.24	16.71	15.87	0-5	5
		3	3	16.94	16.60	16.42	0-5	5
		6	0	16.86	16.84	16.44	0-5	5

LTE Band 66 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131987 Ch. 1711.5 MHz	132322 Ch. 1745 MHz	132657 Ch. 1778.5 MHz		
3 MHz	QPSK	1	0	21.91	21.90	21.19	0	0
		1	7	21.93	21.89	21.18	0	0
		1	14	21.86	21.94	21.20	0	0
		8	0	21.02	20.91	20.31	0-1	0
		8	3	21.07	20.95	20.32	0-1	0
		8	7	21.04	20.93	20.34	0-1	0
		15	0	21.03	20.93	20.34	0-1	0
	16QAM	1	0	21.02	20.92	20.36	0-1	0
		1	7	21.06	20.89	20.35	0-1	0
		1	14	21.05	20.89	20.32	0-1	0
		8	0	20.11	19.96	19.37	0-2	1
		8	3	20.15	19.95	19.34	0-2	1
		8	7	20.09	19.95	19.34	0-2	1
		15	0	20.11	19.92	19.39	0-2	1
	64QAM	1	0	20.08	19.97	19.39	0-2	1
		1	7	20.15	19.93	19.40	0-2	1
		1	14	20.08	19.93	19.37	0-2	1
		8	0	19.16	18.85	18.33	0-3	2
		8	3	19.12	18.84	18.31	0-3	2
		8	7	19.13	18.86	18.33	0-3	2
		15	0	19.11	18.83	18.32	0-3	2
	256QAM	1	0	16.52	16.67	16.25	0-5	5
		1	7	16.92	16.85	16.21	0-5	5
		1	14	16.97	16.43	16.24	0-5	5
		8	0	17.01	17.08	16.29	0-5	5
		8	3	16.34	16.87	15.91	0-5	5
		8	7	16.99	16.72	16.41	0-5	5
		15	0	17.05	17.04	16.54	0-5	5

LTE Band 66 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131997 Ch. 1712.5 MHz	132322 Ch. 1745 MHz	132647 Ch. 1777.5 MHz		
5 MHz	QPSK	1	0	21.86	21.80	21.08	0	0
		1	12	21.86	21.82	21.06	0	0
		1	24	21.83	21.84	21.02	0	0
		12	0	21.11	20.95	20.27	0-1	0
		12	6	21.11	20.95	20.24	0-1	0
		12	11	21.09	20.91	20.27	0-1	0
		25	0	21.10	20.93	20.24	0-1	0
	16QAM	1	0	21.14	20.97	20.22	0-1	0
		1	12	21.10	20.92	20.23	0-1	0
		1	24	21.11	20.90	20.26	0-1	0
		12	0	20.12	20.01	19.21	0-2	1
		12	6	20.10	19.96	19.24	0-2	1
		12	11	20.12	19.95	19.23	0-2	1
		25	0	20.07	19.95	19.20	0-2	1
	64QAM	1	0	20.11	20.00	19.24	0-2	1
		1	12	20.14	19.94	19.20	0-2	1
		1	24	20.11	20.01	19.19	0-2	1
		12	0	19.10	18.90	18.33	0-3	2
		12	6	19.11	18.92	18.32	0-3	2
		12	11	19.15	18.94	18.29	0-3	2
		25	0	19.16	18.93	18.26	0-3	2
	256QAM	1	0	16.59	16.95	16.14	0-5	5
		1	12	16.78	16.67	15.96	0-5	5
		1	24	16.77	16.45	16.18	0-5	5
		12	0	16.91	16.86	15.96	0-5	5
		12	6	16.61	16.90	15.84	0-5	5
		12	11	16.83	16.84	16.20	0-5	5
		25	0	16.77	16.90	16.03	0-5	5

LTE Band 66 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132022 Ch. 1715 MHz	132322 Ch. 1745 MHz	132622 Ch. 1775 MHz		
10 MHz	QPSK	1	0	21.51	21.63	20.98	0	0
		1	24	21.59	21.63	20.93	0	0
		1	49	21.52	21.70	20.95	0	0
		25	0	20.97	20.93	20.15	0-1	0
		25	12	20.98	20.87	20.16	0-1	0
		25	24	20.96	20.88	20.14	0-1	0
		50	0	20.99	20.87	20.13	0-1	0
	16QAM	1	0	20.98	20.89	20.14	0-1	0
		1	24	20.97	20.94	20.21	0-1	0
		1	49	20.97	20.90	20.17	0-1	0
		25	0	19.82	19.84	19.20	0-2	1
		25	12	19.79	19.83	19.19	0-2	1
		25	24	19.82	19.79	19.24	0-2	1
		50	0	19.81	19.83	19.23	0-2	1
	64QAM	1	0	19.82	19.79	19.23	0-2	1
		1	24	19.76	19.81	19.18	0-2	1
		1	49	19.82	19.86	19.16	0-2	1
		25	0	18.97	18.95	18.21	0-3	2
		25	12	18.97	18.91	18.23	0-3	2
		25	24	18.98	18.90	18.21	0-3	2
		50	0	18.92	18.91	18.25	0-3	2
	256QAM	1	0	16.41	16.80	15.95	0-5	5
		1	24	16.78	16.84	16.08	0-5	5
		1	49	16.97	16.54	16.10	0-5	5
		25	0	16.80	16.81	15.98	0-5	5
		25	12	16.65	17.01	15.72	0-5	5
		25	24	16.84	16.91	16.07	0-5	5
		50	0	16.91	17.09	16.07	0-5	5

LTE Band 66 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132047 Ch. 1717.5 MHz	132322 Ch. 1745 MHz	132597 Ch. 1772.5 MHz		
15 MHz	QPSK	1	0	21.57	21.78	21.41	0	0
		1	36	21.58	21.76	21.37	0	0
		1	74	21.59	21.76	21.42	0	0
		36	0	20.91	20.90	20.35	0-1	0
		36	18	20.91	20.86	20.30	0-1	0
		36	39	20.93	20.84	20.31	0-1	0
		75	0	20.96	20.85	20.29	0-1	0
	16QAM	1	0	20.91	20.85	20.32	0-1	0
		1	36	20.91	20.85	20.30	0-1	0
		1	74	20.93	20.91	20.31	0-1	0
		36	0	19.85	19.93	19.32	0-2	1
		36	18	19.92	19.90	19.37	0-2	1
		36	39	19.90	19.95	19.32	0-2	1
		75	0	19.90	19.87	19.32	0-2	1
	64QAM	1	0	19.87	19.87	19.31	0-2	1
		1	36	19.86	19.87	19.30	0-2	1
		1	74	19.85	19.87	19.30	0-2	1
		36	0	18.87	18.91	18.25	0-3	2
		36	18	18.87	18.94	18.26	0-3	2
		36	39	18.90	18.87	18.30	0-3	2
		75	0	18.86	18.93	18.25	0-3	2
	256QAM	1	0	16.57	16.65	15.88	0-5	5
		1	36	16.81	16.88	15.93	0-5	5
		1	74	16.98	16.59	15.90	0-5	5
		36	0	16.72	16.95	16.01	0-5	5
		36	18	16.47	16.95	15.60	0-5	5
		36	39	16.79	16.71	16.23	0-5	5
		75	0	16.91	17.08	16.01	0-5	5

LTE Band 66 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132072 Ch. 1720 MHz	132322 Ch. 1745 MHz	132572 Ch. 1770 MHz		
20 MHz	QPSK	1	0	21.46	21.69	21.50	0	0
		1	49	21.48	21.64	21.49	0	0
		1	99	21.49	21.63	21.51	0	0
		50	0	20.90	20.88	20.32	0-1	0
		50	25	20.88	20.85	20.31	0-1	0
		50	49	20.87	20.81	20.31	0-1	0
		100	0	20.85	20.84	20.32	0-1	0
	16QAM	1	0	20.91	20.85	20.35	0-1	0
		1	49	20.84	20.85	20.34	0-1	0
		1	99	20.86	20.86	20.34	0-1	0
		50	0	19.85	19.88	19.46	0-2	1
		50	25	19.86	19.85	19.51	0-2	1
		50	49	19.82	19.90	19.45	0-2	1
		100	0	19.87	19.87	19.50	0-2	1
	64QAM	1	0	19.84	19.91	19.45	0-2	1
		1	49	19.85	19.86	19.49	0-2	1
		1	99	19.82	19.88	19.45	0-2	1
		50	0	19.86	18.85	18.39	0-3	2
		50	25	19.92	18.87	18.38	0-3	2
		50	49	19.91	18.84	18.41	0-3	2
		100	0	19.91	18.90	18.37	0-3	2
	256QAM	1	0	16.41	16.51	15.93	0-5	5
		1	49	16.73	16.82	16.04	0-5	5
		1	99	16.89	16.55	16.17	0-5	5
		50	0	16.91	16.94	16.12	0-5	5
		50	25	16.47	16.95	15.74	0-5	5
		50	49	16.89	16.56	16.58	0-5	5
		100	0	16.96	17.04	16.41	0-5	5

[LTE Band 71 Conducted Power]

LTE Band 71 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23017 Ch. 699.7 MHz	23095 Ch. 707.5 MHz	23173 Ch. 715.3 MHz		
1.4 MHz	QPSK	1	0	23.99	24.03	24.00	0	0
		1	3	24.10	24.05	24.07	0	0
		1	5	24.03	24.01	24.10	0	0
		3	0	23.96	24.03	24.01	0-1	0
		3	1	24.00	24.08	23.99	0-1	0
		3	3	23.99	23.93	24.01	0-1	0
		6	0	23.08	23.18	23.14	0-1	0
	16QAM	1	0	23.22	23.45	23.43	0-1	0
		1	3	23.59	23.26	23.31	0-1	0
		1	5	23.39	23.42	23.37	0-1	0
		3	0	23.25	23.22	23.23	0-2	1
		3	1	23.33	23.29	23.28	0-2	1
		3	3	23.22	23.19	23.27	0-2	1
		6	0	22.21	22.28	22.08	0-2	1
	64QAM	1	0	22.25	22.09	22.22	0-2	1
		1	3	22.34	22.24	22.30	0-2	1
		1	5	22.24	22.27	22.23	0-2	1
		3	0	22.19	22.12	21.87	0-3	2
		3	1	22.11	22.31	21.96	0-3	2
		3	3	22.15	22.20	21.95	0-3	2
		6	0	21.14	21.24	21.13	0-3	2
	256QAM	1	0	19.14	19.22	19.69	0-5	5
		1	3	19.39	19.10	19.12	0-5	5
		1	5	19.38	19.31	18.59	0-5	5
		3	0	19.31	19.29	18.96	0-5	5
		3	1	19.19	19.23	18.97	0-5	5
		3	3	19.41	19.15	18.86	0-5	5
		6	0	19.16	19.12	18.51	0-5	5

LTE Band 71 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23025 ch. 700.5 MHz	23095 ch. 707.5 MHz	23165ch. 714.5 MHz		
3 MHz	QPSK	1	0	24.06	24.19	24.14	0	0
		1	7	24.10	24.23	24.23	0	0
		1	14	23.95	24.16	24.08	0	0
		8	0	23.12	23.16	23.15	0-1	0
		8	3	23.27	23.27	23.50	0-1	0
		8	7	23.17	23.27	23.23	0-1	0
		15	0	23.23	23.23	23.19	0-1	0
	16QAM	1	0	23.38	23.45	23.53	0-1	0
		1	7	23.46	23.38	23.34	0-1	0
		1	14	23.47	23.50	23.49	0-1	0
		8	0	22.24	22.32	22.16	0-2	1
		8	3	22.46	22.45	22.29	0-2	1
		8	7	22.21	22.29	22.28	0-2	1
		15	0	22.28	22.36	22.26	0-2	1
	64QAM	1	0	22.23	22.34	22.26	0-2	1
		1	7	22.31	22.38	22.24	0-2	1
		1	14	22.59	22.35	22.31	0-2	1
		8	0	21.27	21.28	21.23	0-3	2
		8	3	21.40	21.39	21.33	0-3	2
		8	7	21.35	21.25	21.23	0-3	2
		15	0	21.25	21.33	21.27	0-3	2
	256QAM	1	0	19.30	19.15	19.37	0-5	5
		1	7	19.02	19.24	19.14	0-5	5
		1	14	19.26	19.34	19.39	0-5	5
		8	0	19.26	19.20	19.15	0-5	5
		8	3	19.21	19.29	19.20	0-5	5
		8	7	19.26	19.23	19.25	0-5	5
		15	0	19.22	19.28	19.21	0-5	5

LTE Band 71 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				133147 ch. 665.5 MHz	133297 ch. 680.5 MHz	133442ch. 695 MHz		
5 MHz	QPSK	1	0	24.33	23.86	23.81	0	0
		1	12	24.28	23.78	23.81	0	0
		1	24	24.06	23.85	23.63	0	0
		12	0	23.34	22.96	22.77	0-1	0
		12	6	23.28	22.94	22.95	0-1	0
		12	11	23.24	22.93	23.02	0-1	0
		25	0	23.24	22.90	22.93	0-1	0
	16QAM	1	0	23.55	23.02	23.12	0-1	0
		1	12	23.46	23.14	23.07	0-1	0
		1	24	23.47	23.05	23.15	0-1	0
		12	0	22.41	21.99	21.86	0-2	1
		12	6	22.18	21.86	21.98	0-2	1
		12	11	22.30	22.05	22.15	0-2	1
		25	0	22.18	21.87	21.94	0-2	1
	64QAM	1	0	22.73	22.14	21.93	0-2	1
		1	12	22.42	21.95	21.86	0-2	1
		1	24	22.45	22.06	22.12	0-2	1
		12	0	21.48	20.96	20.88	0-3	2
		12	6	21.25	21.02	20.94	0-3	2
		12	11	21.24	20.97	21.00	0-3	2
		25	0	21.37	20.99	20.78	0-3	2
	256QAM	1	0	19.52	19.05	19.03	0-5	5
		1	12	19.41	19.03	18.98	0-5	5
		1	24	19.33	18.99	18.94	0-5	5
		12	0	19.35	18.94	18.85	0-5	5
		12	6	19.33	18.91	18.94	0-5	5
		12	11	19.31	19.04	18.93	0-5	5
		25	0	19.35	18.90	18.85	0-5	5

LTE Band 71 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				133297 ch. 680.5 MHz		
10 MHz	QPSK	1	0	23.96	0	0
		1	24	23.79	0	0
		1	49	23.72	0	0
		25	0	22.98	0-1	0
		25	12	22.96	0-1	0
		25	24	22.91	0-1	0
		50	0	22.91	0-1	0
	16QAM	1	0	23.21	0-1	0
		1	24	23.00	0-1	0
		1	49	23.16	0-1	0
		25	0	21.95	0-2	1
		25	12	22.05	0-2	1
		25	24	21.95	0-2	1
		50	0	21.86	0-2	1
	64QAM	1	0	22.27	0-2	1
		1	24	22.10	0-2	1
		1	49	22.12	0-2	1
		25	0	21.11	0-3	2
		25	12	21.06	0-3	2
		25	24	20.95	0-3	2
		50	0	20.98	0-3	2
	256QAM	1	0	18.75	0-5	5
		1	24	19.05	0-5	5
		1	49	18.78	0-5	5
		25	0	18.85	0-5	5
		25	12	19.03	0-5	5
		25	24	18.91	0-5	5
		50	0	18.87	0-5	5

The EUT enables maximum power reduction in accordance with 3GPP 36.101. The MPR settings are configured during the manufacture process and are not configurable by the network, carrier, or end user.

11.3.2 LTE Reduced Conducted Power (Hotspot activated)

[LTE Band 2 Conducted Power]

LTE Band 2 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18607 Ch. 1850.7 MHz	18900 Ch. 1880 MHz	19193 Ch. 1909.3 MHz		
1.4 MHz	QPSK	1	0	20.99	21.12	21.08	0	0
		1	3	21.04	21.26	21.11	0	0
		1	5	20.95	21.14	21.06	0	0
		3	0	20.96	21.07	21.01	0	0
		3	1	20.96	21.16	21.02	0	0
		3	3	20.97	21.13	20.94	0	0
	16QAM	6	0	21.07	21.20	21.10	0-1	0
		1	0	21.24	21.46	21.35	0-1	0
		1	3	21.50	21.59	21.40	0-1	0
		1	5	21.34	21.56	21.09	0-1	0
		3	0	21.10	21.27	21.05	0-1	0
		3	1	21.08	21.22	20.96	0-1	0
	64QAM	3	3	21.05	21.24	21.06	0-1	0
		6	0	21.16	21.26	21.25	0-2	0
		1	0	21.20	21.34	21.25	0-2	0
		1	3	21.24	21.30	21.32	0-2	0
		1	5	21.07	21.35	21.19	0-2	0
		3	0	21.10	21.26	21.13	0-2	0
	256QAM	3	1	21.10	21.32	21.15	0-2	0
		3	3	20.96	21.20	21.05	0-2	0
		6	0	20.51	21.20	21.20	0-3	0
		1	0	19.14	19.12	19.34	0-5	2
		1	3	19.02	19.49	19.23	0-5	2
		1	5	18.88	19.31	19.23	0-5	2
		3	0	19.20	19.27	19.21	0-5	2
		3	1	18.99	19.14	19.12	0-5	2
		3	3	18.99	19.37	19.03	0-5	2
		6	0	18.87	19.08	19.02	0-5	2

LTE Band 2 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18615 Ch. 1851.5 MHz	18900 Ch. 1880 MHz	19185 Ch. 1908.5 MHz		
3 MHz	QPSK	1	0	21.04	21.19	21.16	0	0
		1	7	21.02	21.27	21.01	0	0
		1	14	21.03	20.99	21.00	0	0
		8	0	21.21	21.26	21.16	0-1	0
		8	3	21.22	21.29	21.29	0-1	0
		8	7	21.06	21.24	21.14	0-1	0
		15	0	21.17	21.25	21.16	0-1	0
	16QAM	1	0	21.39	21.57	21.20	0-1	0
		1	7	21.24	21.79	21.31	0-1	0
		1	14	21.39	21.45	21.16	0-1	0
		8	0	21.18	21.38	21.21	0-2	0
		8	3	21.31	21.33	21.24	0-2	0
		8	7	21.16	21.23	21.11	0-2	0
		15	0	21.16	21.23	21.21	0-2	0
	64QAM	1	0	21.30	21.42	21.21	0-2	0
		1	7	21.08	21.67	21.15	0-2	0
		1	14	21.10	21.41	21.19	0-2	0
		8	0	21.24	21.40	21.32	0-3	0
		8	3	21.18	21.19	21.22	0-3	0
		8	7	21.23	21.33	21.11	0-3	0
		15	0	21.07	21.29	21.18	0-3	0
	256QAM	1	0	19.12	19.28	19.22	0-5	2
		1	7	19.22	19.36	19.27	0-5	2
		1	14	19.23	19.32	19.16	0-5	2
		8	0	19.04	19.25	18.61	0-5	2
		8	3	19.10	19.17	19.11	0-5	2
		8	7	19.02	19.23	19.17	0-5	2
		15	0	18.99	19.18	19.05	0-5	2

LTE Band 2 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18625 Ch. 1852.5 MHz	18900 Ch. 1880 MHz	19175 Ch. 1907.5 MHz		
5 MHz	QPSK	1	0	21.02	21.14	21.02	0	0
		1	12	21.24	21.39	21.08	0	0
		1	24	20.86	21.13	20.93	0	0
		12	0	21.08	21.26	21.23	0-1	0
		12	6	21.14	21.32	21.26	0-1	0
		12	11	21.06	21.24	21.15	0-1	0
		25	0	21.11	21.21	21.09	0-1	0
	16QAM	1	0	21.29	21.52	21.34	0-1	0
		1	12	21.32	21.16	21.09	0-1	0
		1	24	21.35	21.34	21.28	0-1	0
		12	0	21.03	21.30	21.21	0-2	0
		12	6	21.14	21.33	21.24	0-2	0
		12	11	21.06	21.32	21.21	0-2	0
		25	0	21.12	21.28	21.22	0-2	0
	64QAM	1	0	21.15	21.35	21.29	0-2	0
		1	12	21.32	21.31	21.39	0-2	0
		1	24	21.19	21.28	21.12	0-2	0
		12	0	21.09	21.17	21.22	0-3	0
		12	6	21.11	21.29	21.23	0-3	0
		12	11	21.12	21.34	21.12	0-3	0
		25	0	21.08	21.18	21.08	0-3	0
	256QAM	1	0	19.12	19.21	19.21	0-5	2
		1	12	19.09	19.04	19.25	0-5	2
		1	24	19.12	19.24	19.12	0-5	2
		12	0	19.05	19.18	19.09	0-5	2
		12	6	18.93	19.20	19.14	0-5	2
		12	11	19.06	19.20	19.08	0-5	2
		25	0	19.00	19.16	19.09	0-5	2

LTE Band 2 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18650 Ch. 1855 MHz	18900 Ch. 1880 MHz	19150 Ch. 1905 MHz		
10 MHz	QPSK	1	0	20.49	20.75	21.07	0	0
		1	24	20.85	21.10	21.03	0	0
		1	49	20.62	20.96	21.10	0	0
		25	0	21.02	21.13	21.06	0-1	0
		25	12	21.08	21.25	21.21	0-1	0
		25	24	21.00	21.22	21.08	0-1	0
		50	0	21.12	21.14	20.96	0-1	0
	16QAM	1	0	20.97	21.19	21.34	0-1	0
		1	24	21.29	21.51	21.33	0-1	0
		1	49	20.91	21.26	21.35	0-1	0
		25	0	21.08	21.18	21.07	0-2	0
		25	12	21.16	21.24	21.21	0-2	0
		25	24	21.09	21.29	21.22	0-2	0
		50	0	21.01	21.15	21.04	0-2	0
	64QAM	1	0	20.93	21.00	21.38	0-2	0
		1	24	21.18	21.47	21.29	0-2	0
		1	49	20.92	21.29	21.31	0-2	0
		25	0	21.08	21.14	21.06	0-3	0
		25	12	21.13	21.35	21.21	0-3	0
		25	24	20.98	21.27	21.12	0-3	0
		50	0	20.98	21.14	20.99	0-3	0
	256QAM	1	0	18.81	18.94	18.91	0-5	2
		1	24	19.02	19.36	19.28	0-5	2
		1	49	18.83	19.03	18.95	0-5	2
		25	0	18.85	18.99	18.93	0-5	2
		25	12	19.04	19.07	19.21	0-5	2
		25	24	18.95	19.07	18.98	0-5	2
		50	0	18.90	19.01	18.91	0-5	2

LTE Band 2 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18675 Ch. 1857.5 MHz	18900 Ch. 1880 MHz	19125 Ch. 1902.5 MHz		
15 MHz	QPSK	1	0	20.65	21.03	20.85	0	0
		1	36	20.86	21.15	20.96	0	0
		1	74	20.82	21.04	21.04	0	0
		36	0	20.79	20.97	20.92	0-1	0
		36	18	20.94	21.17	21.06	0-1	0
		36	39	20.94	21.14	21.09	0-1	0
		75	0	20.87	21.07	20.96	0-1	0
	16QAM	1	0	20.98	21.29	21.34	0-1	0
		1	36	21.19	21.40	21.32	0-1	0
		1	74	21.10	21.51	21.21	0-1	0
		36	0	20.84	20.94	21.00	0-2	0
		36	18	20.91	21.14	21.03	0-2	0
		36	39	20.93	21.22	21.01	0-2	0
		75	0	20.90	21.11	20.99	0-2	0
	64QAM	1	0	20.93	21.19	21.19	0-2	0
		1	36	21.18	21.41	21.26	0-2	0
		1	74	21.05	21.39	21.20	0-2	0
		36	0	20.86	21.05	20.89	0-3	0
		36	18	20.93	21.14	20.97	0-3	0
		36	39	20.92	21.12	21.06	0-3	0
		75	0	20.89	21.10	21.01	0-3	0
	256QAM	1	0	18.86	18.74	18.82	0-5	2
		1	36	18.77	19.10	19.01	0-5	2
		1	74	18.77	19.07	19.05	0-5	2
		36	0	18.89	18.95	18.85	0-5	2
		36	18	18.85	18.99	18.97	0-5	2
		36	39	18.86	19.16	19.02	0-5	2
		75	0	18.83	19.01	18.88	0-5	2

LTE Band 2 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18700 Ch. 1860 MHz	18900 Ch. 1880 MHz	19100 Ch. 1900 MHz		
20 MHz	QPSK	1	0	20.83	20.93	20.97	0	0
		1	49	20.74	21.03	20.85	0	0
		1	99	20.99	21.05	20.87	0	0
		50	0	20.77	20.97	20.89	0-1	0
		50	25	20.86	21.18	21.02	0-1	0
		50	49	21.00	21.15	21.10	0-1	0
		100	0	20.89	21.05	20.97	0-1	0
	16QAM	1	0	21.24	21.22	21.24	0-1	0
		1	49	21.24	21.39	21.21	0-1	0
		1	99	21.22	21.29	21.21	0-1	0
		50	0	20.78	20.96	20.91	0-2	0
		50	25	21.01	21.09	21.11	0-2	0
		50	49	21.09	21.09	21.08	0-2	0
		100	0	20.86	21.10	21.02	0-2	0
	64QAM	1	0	21.11	21.10	21.17	0-2	0
		1	49	21.10	21.33	21.14	0-2	0
		1	99	21.09	21.32	21.18	0-2	0
		50	0	20.82	20.95	20.53	0-3	0
		50	25	20.92	21.08	20.51	0-3	0
		50	49	20.97	21.16	20.13	0-3	0
		100	0	20.89	21.04	20.19	0-3	0
	256QAM	1	0	18.51	18.66	18.64	0-5	2
		1	49	18.94	19.07	19.00	0-5	2
		1	99	18.83	18.88	18.82	0-5	2
		50	0	18.74	18.87	18.90	0-5	2
		50	25	18.82	18.97	19.00	0-5	2
		50	49	18.89	19.07	18.97	0-5	2
		100	0	18.82	18.95	18.93	0-5	2

[LTE Band 4 Conducted Power]

LTE Band 4 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19957 Ch. 1710.7 MHz	20175 Ch. 1732.5 MHz	20393 Ch. 1754.3 MHz		
1.4 MHz	QPSK	1	0	21.22	21.33	21.17	0	0
		1	3	21.34	21.33	21.28	0	0
		1	5	21.24	21.30	21.19	0	0
		3	0	21.28	21.34	21.25	0	0
		3	1	21.33	21.39	21.29	0	0
		3	3	21.31	21.28	21.15	0	0
		6	0	21.31	21.44	21.28	0-1	0
	16QAM	1	0	21.62	21.79	21.67	0-1	0
		1	3	21.72	21.79	21.64	0-1	0
		1	5	21.59	21.63	21.49	0-1	0
		3	0	21.47	21.46	21.32	0-1	0
		3	1	21.40	21.44	21.40	0-1	0
		3	3	21.33	21.38	21.29	0-1	0
		6	0	21.29	21.48	21.29	0-2	0
	64QAM	1	0	21.51	21.52	21.35	0-2	0
		1	3	21.52	21.62	21.46	0-2	0
		1	5	21.46	21.55	21.51	0-2	0
		3	0	21.49	21.61	21.46	0-2	0
		3	1	21.43	21.49	21.50	0-2	0
		3	3	21.34	21.42	21.45	0-2	0
		6	0	21.42	21.39	21.40	0-3	0
	256QAM	1	0	19.29	19.52	19.39	0-5	2
		1	3	19.43	19.49	19.22	0-5	2
		1	5	19.36	19.42	19.39	0-5	2
		3	0	19.35	19.43	19.45	0-5	2
		3	1	19.39	19.52	19.30	0-5	2
		3	3	19.27	19.45	19.34	0-5	2
		6	0	19.17	19.28	19.26	0-5	2

LTE Band 4 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19965 Ch. 1711.5 MHz	20175 Ch. 1732.5 MHz	20385 Ch. 1753.5 MHz		
3 MHz	QPSK	1	0	21.37	21.41	21.28	0	0
		1	7	21.39	21.48	21.31	0	0
		1	14	21.34	21.44	21.32	0	0
		8	0	21.38	21.45	21.34	0-1	0
		8	3	21.55	21.61	21.44	0-1	0
		8	7	21.45	21.48	21.42	0-1	0
		15	0	21.42	21.51	21.41	0-1	0
	16QAM	1	0	21.50	21.58	21.66	0-1	0
		1	7	21.59	21.73	21.66	0-1	0
		1	14	21.56	21.62	21.74	0-1	0
		8	0	21.33	21.50	21.44	0-2	0
		8	3	21.46	21.56	21.37	0-2	0
		8	7	21.52	21.54	21.43	0-2	0
		15	0	21.46	21.54	21.29	0-2	0
	64QAM	1	0	21.48	21.67	21.50	0-2	0
		1	7	21.46	21.80	21.61	0-2	0
		1	14	21.53	21.55	21.46	0-2	0
		8	0	21.46	21.54	21.36	0-3	0
		8	3	21.52	21.65	21.31	0-3	0
		8	7	21.49	21.58	21.44	0-3	0
		15	0	21.42	21.45	21.35	0-3	0
	256QAM	1	0	19.34	19.58	19.47	0-5	2
		1	7	19.42	19.46	19.51	0-5	2
		1	14	19.44	19.36	19.42	0-5	2
		8	0	19.31	19.42	19.25	0-5	2
		8	3	19.44	19.37	19.27	0-5	2
		8	7	19.32	19.41	19.32	0-5	2
		15	0	19.30	19.40	19.12	0-5	2

LTE Band 4 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19975 Ch. 1712.5 MHz	20175 Ch. 1732.5 MHz	20375 Ch. 1752.5 MHz		
5 MHz	QPSK	1	0	21.28	21.33	21.23	0	0
		1	12	21.33	21.38	21.29	0	0
		1	24	21.29	21.31	21.26	0	0
		12	0	21.41	21.45	21.46	0-1	0
		12	6	21.52	21.53	21.42	0-1	0
		12	11	21.43	21.53	21.42	0-1	0
		25	0	21.50	21.56	21.39	0-1	0
	16QAM	1	0	21.62	21.76	21.57	0-1	0
		1	12	21.62	21.73	21.98	0-1	0
		1	24	21.60	21.79	21.69	0-1	0
		12	0	21.40	21.45	21.38	0-2	0
		12	6	21.54	21.57	21.45	0-2	0
		12	11	21.45	21.56	21.40	0-2	0
		25	0	21.51	21.57	21.39	0-2	0
	64QAM	1	0	21.39	21.52	21.44	0-2	0
		1	12	21.57	21.58	21.39	0-2	0
		1	24	21.61	21.66	21.38	0-2	0
		12	0	21.42	21.37	21.37	0-3	0
		12	6	21.50	21.49	21.30	0-3	0
		12	11	21.41	21.45	21.42	0-3	0
		25	0	21.46	21.37	21.36	0-3	0
	256QAM	1	0	19.03	19.38	19.43	0-5	2
		1	12	19.55	19.56	19.40	0-5	2
		1	24	19.36	19.42	19.33	0-5	2
		12	0	19.20	19.35	19.32	0-5	2
		12	6	19.32	19.46	19.26	0-5	2
		12	11	19.37	19.46	19.27	0-5	2
		25	0	19.25	19.36	19.26	0-5	2

LTE Band 4 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20000 Ch. 1715 MHz	20175 Ch. 1732.5 MHz	20350 Ch. 1750 MHz		
10 MHz	QPSK	1	0	20.96	21.12	20.93	0	0
		1	24	21.25	21.35	21.34	0	0
		1	49	21.11	21.10	21.12	0	0
		25	0	21.30	21.34	21.21	0-1	0
		25	12	21.49	21.51	21.33	0-1	0
		25	24	21.36	21.40	21.36	0-1	0
		50	0	21.38	21.51	21.34	0-1	0
	16QAM	1	0	21.37	21.36	21.35	0-1	0
		1	24	21.73	21.79	21.64	0-1	0
		1	49	21.44	21.63	21.51	0-1	0
		25	0	21.35	21.22	21.17	0-2	0
		25	12	21.54	21.50	21.47	0-2	0
		25	24	21.41	21.41	21.33	0-2	0
		50	0	21.45	21.42	21.21	0-2	0
	64QAM	1	0	21.18	21.34	21.07	0-2	0
		1	24	21.59	21.70	21.67	0-2	0
		1	49	21.44	21.31	21.23	0-2	0
		25	0	21.33	21.32	21.21	0-3	0
		25	12	21.50	21.51	21.40	0-3	0
		25	24	21.40	21.42	21.37	0-3	0
		50	0	21.41	21.41	21.26	0-3	0
	256QAM	1	0	19.04	19.09	19.20	0-5	2
		1	24	19.41	19.44	19.40	0-5	2
		1	49	19.19	19.22	19.15	0-5	2
		25	0	19.24	19.19	19.14	0-5	2
		25	12	19.46	19.42	19.32	0-5	2
		25	24	19.32	19.23	19.12	0-5	2
		50	0	19.32	19.33	19.18	0-5	2

LTE Band 4 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20025 Ch. 1717.5 MHz	20175 Ch. 1732.5 MHz	20325 Ch. 1747.5 MHz		
15 MHz	QPSK	1	0	21.07	21.01	21.03	0	0
		1	36	21.23	21.16	21.15	0	0
		1	74	21.15	21.22	21.08	0	0
		36	0	21.23	21.21	21.17	0-1	0
		36	18	21.39	21.37	21.26	0-1	0
		36	39	21.35	21.37	21.31	0-1	0
		75	0	21.33	21.33	21.18	0-1	0
	16QAM	1	0	21.44	21.41	21.29	0-1	0
		1	36	21.57	21.47	21.51	0-1	0
		1	74	21.48	21.68	21.45	0-1	0
		36	0	21.18	21.26	21.16	0-2	0
		36	18	21.39	21.38	21.27	0-2	0
		36	39	21.38	21.45	21.33	0-2	0
		75	0	21.33	21.25	21.20	0-2	0
	64QAM	1	0	21.21	21.30	21.17	0-2	0
		1	36	21.54	21.48	21.46	0-2	0
		1	74	21.40	21.43	21.33	0-2	0
		36	0	21.17	21.25	21.17	0-3	0
		36	18	21.35	21.37	21.22	0-3	0
		36	39	21.28	21.37	21.33	0-3	0
		75	0	21.33	21.25	21.20	0-3	0
	256QAM	1	0	19.09	19.07	19.04	0-5	2
		1	36	19.24	19.36	19.22	0-5	2
		1	74	19.22	19.25	19.18	0-5	2
		36	0	19.15	19.08	19.06	0-5	2
		36	18	19.29	19.26	19.09	0-5	2
		36	39	19.29	19.21	19.22	0-5	2
		75	0	19.15	19.12	19.13	0-5	2

LTE Band 4 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20050 Ch. 1720 MHz	20175 Ch. 1732.5 MHz	20300 Ch. 1745 MHz		
20 MHz	QPSK	1	0	20.77	21.03	20.89	0	0
		1	49	21.12	21.24	21.20	0	0
		1	99	21.23	21.01	21.01	0	0
		50	0	21.18	21.14	21.15	0-1	0
		50	25	21.33	21.38	21.40	0-1	0
		50	49	21.39	21.38	21.28	0-1	0
		100	0	21.30	21.26	21.26	0-1	0
	16QAM	1	0	21.14	21.15	21.30	0-1	0
		1	49	21.66	21.57	21.57	0-1	0
		1	99	21.42	21.45	21.50	0-1	0
		50	0	21.14	21.24	21.18	0-2	0
		50	25	21.39	21.40	21.34	0-2	0
		50	49	21.29	21.32	21.28	0-2	0
		100	0	21.35	21.26	21.23	0-2	0
	64QAM	1	0	21.05	21.27	21.06	0-2	0
		1	49	21.42	21.51	21.31	0-2	0
		1	99	21.41	21.43	21.19	0-2	0
		50	0	21.11	21.13	21.06	0-3	0
		50	25	21.37	21.37	21.33	0-3	0
		50	49	21.35	21.25	21.30	0-3	0
		100	0	21.33	21.28	21.27	0-3	0
	256QAM	1	0	18.94	19.05	18.94	0-5	2
		1	49	19.36	19.34	19.29	0-5	2
		1	99	19.20	19.18	19.05	0-5	2
		50	0	19.04	19.01	18.98	0-5	2
		50	25	19.31	19.32	19.24	0-5	2
		50	49	19.19	19.22	19.18	0-5	2
		100	0	19.19	19.16	19.18	0-5	2

[LTE Band 7 Conducted Power]

LTE Band 7 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20775 Ch. 2502.5 MHz	21100 Ch. 2535 MHz	21425 Ch. 2567.5 MHz		
5 MHz	QPSK	1	0	20.91	20.66	20.74	0	0
		1	12	20.88	20.58	20.76	0	0
		1	24	20.88	20.52	20.55	0	0
		12	0	20.98	20.70	20.79	0-1	0
		12	6	20.95	20.75	20.85	0-1	0
		12	11	20.91	20.69	20.80	0-1	0
		25	0	20.95	20.67	20.78	0-1	0
	16QAM	1	0	21.22	20.91	21.07	0-1	0
		1	12	21.07	21.01	21.06	0-1	0
		1	24	20.98	20.98	21.29	0-1	0
		12	0	21.00	20.71	20.87	0-2	0
		12	6	21.03	20.83	20.84	0-2	0
		12	11	21.06	20.80	20.82	0-2	0
		25	0	21.02	20.75	20.83	0-2	0
	64QAM	1	0	21.08	20.98	20.99	0-2	0
		1	12	21.05	20.88	20.88	0-2	0
		1	24	21.18	20.92	20.91	0-2	0
		12	0	21.04	20.77	20.87	0-3	0
		12	6	21.07	20.75	20.88	0-3	0
		12	11	21.01	20.72	20.79	0-3	0
		25	0	20.96	20.65	20.84	0-3	0
	256QAM	1	0	18.82	18.56	18.73	0-5	2
		1	12	18.90	18.59	18.79	0-5	2
		1	24	18.87	18.67	18.80	0-5	2
		12	0	18.79	18.63	18.70	0-5	2
		12	6	18.83	18.59	18.65	0-5	2
		12	11	18.82	18.63	18.64	0-5	2
		25	0	18.80	18.60	18.66	0-5	2

LTE Band 7_ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20800 Ch. 2505 MHz	21100 Ch. 2535 MHz	21400 Ch. 2565 MHz		
10 MHz	QPSK	1	0	20.76	20.57	20.60	0	0
		1	24	20.80	20.49	20.65	0	0
		1	49	20.81	20.59	20.71	0	0
		25	0	20.98	20.74	20.72	0-1	0
		25	12	20.87	20.74	20.70	0-1	0
		25	24	20.80	20.67	20.83	0-1	0
		50	0	20.83	20.63	20.62	0-1	0
	16QAM	1	0	21.47	21.14	21.00	0-1	0
		1	24	21.15	20.98	20.96	0-1	0
		1	49	21.10	20.91	21.03	0-1	0
		25	0	21.01	20.80	20.82	0-2	0
		25	12	20.91	20.85	20.75	0-2	0
		25	24	20.92	20.75	20.86	0-2	0
		50	0	20.86	20.79	20.67	0-2	0
	64QAM	1	0	21.13	20.87	20.98	0-2	0
		1	24	21.28	20.82	20.95	0-2	0
		1	49	21.17	21.05	21.09	0-2	0
		25	0	21.07	20.80	20.79	0-3	0
		25	12	20.93	20.75	20.76	0-3	0
		25	24	20.91	20.75	20.86	0-3	0
		50	0	20.88	20.67	20.70	0-3	0
	256QAM	1	0	18.82	18.49	18.35	0-5	2
		1	24	19.02	18.66	18.61	0-5	2
		1	49	18.67	18.45	18.45	0-5	2
		25	0	18.71	18.54	18.55	0-5	2
		25	12	18.69	18.73	18.63	0-5	2
		25	24	18.65	18.46	18.72	0-5	2
		50	0	18.66	18.44	18.47	0-5	2

LTE Band 7 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20825 Ch. 2507.5 MHz	21100 Ch. 2535 MHz	21375 Ch. 2562.5 MHz		
15 MHz	QPSK	1	0	20.81	20.55	20.55	0	0
		1	36	20.72	20.39	20.41	0	0
		1	74	20.66	20.48	20.52	0	0
		36	0	20.87	20.66	20.64	0-1	0
		36	18	20.84	20.63	20.76	0-1	0
		36	39	20.71	20.57	20.66	0-1	0
		75	0	20.76	20.53	20.70	0-1	0
	16QAM	1	0	21.19	21.02	20.91	0-1	0
		1	36	21.12	20.70	20.89	0-1	0
		1	74	21.07	20.97	20.86	0-1	0
		36	0	20.90	20.68	20.62	0-2	0
		36	18	20.86	20.64	20.74	0-2	0
		36	39	20.73	20.61	20.63	0-2	0
		75	0	20.82	20.54	20.66	0-2	0
	64QAM	1	0	20.99	20.79	20.70	0-2	0
		1	36	20.98	20.50	20.80	0-2	0
		1	74	20.83	20.74	20.88	0-2	0
		36	0	20.94	20.69	20.73	0-3	0
		36	18	20.94	20.63	20.75	0-3	0
		36	39	20.84	20.55	20.69	0-3	0
		75	0	20.86	20.57	20.66	0-3	0
	256QAM	1	0	18.95	18.42	18.40	0-5	2
		1	36	18.84	18.49	18.43	0-5	2
		1	74	18.56	18.36	18.51	0-5	2
		36	0	18.67	18.39	18.47	0-5	2
		36	18	18.74	18.51	18.58	0-5	2
		36	39	18.60	18.43	18.52	0-5	2
		75	0	18.65	18.37	18.52	0-5	2

LTE Band 7 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20850 Ch. 2510 MHz	21100 Ch. 2535 MHz	21350 Ch. 2560 MHz		
20 MHz	QPSK	1	0	20.74	20.60	20.50	0	0
		1	49	20.51	20.52	20.56	0	0
		1	99	20.63	20.51	20.44	0	0
		50	0	20.89	20.60	20.62	0-1	0
		50	25	20.73	20.58	20.56	0-1	0
		50	49	20.62	20.54	20.61	0-1	0
		100	0	20.65	20.48	20.47	0-1	0
	16QAM	1	0	21.23	20.98	21.04	0-1	0
		1	49	21.11	20.91	20.93	0-1	0
		1	99	21.01	20.80	20.90	0-1	0
		50	0	20.86	20.74	20.55	0-2	0
		50	25	20.76	20.56	20.58	0-2	0
		50	49	20.67	20.52	20.71	0-2	0
		100	0	20.69	20.48	20.54	0-2	0
	64QAM	1	0	20.84	20.66	20.77	0-2	0
		1	49	20.81	20.68	20.82	0-2	0
		1	99	20.84	20.74	20.71	0-2	0
		50	0	20.85	20.70	20.65	0-3	0
		50	25	20.77	20.66	20.67	0-3	0
		50	49	20.71	20.53	20.60	0-3	0
		100	0	20.60	20.55	20.55	0-3	0
	256QAM	1	0	18.51	18.22	18.41	0-5	2
		1	49	18.85	18.47	18.63	0-5	2
		1	99	18.32	18.24	18.26	0-5	2
		50	0	18.63	18.39	18.40	0-5	2
		50	25	18.61	18.44	18.44	0-5	2
		50	49	18.53	18.39	18.33	0-5	2
		100	0	18.51	18.42	18.37	0-5	2

[LTE Band 25 Conducted Power]

LTE Band 25 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26047 Ch. 1850.7 MHz	26365 Ch. 1882.5 MHz	26683 Ch. 1914.3 MHz		
1.4 MHz	QPSK	1	0	20.96	21.08	20.96	0	0
		1	3	21.17	21.21	21.12	0	0
		1	5	21.00	21.20	21.08	0	0
		3	0	20.90	21.11	21.02	0	0
		3	1	20.96	21.15	21.04	0	0
		3	3	20.94	21.21	20.99	0	0
		6	0	21.02	21.22	21.08	0-1	0
	16QAM	1	0	21.24	21.40	21.39	0-1	0
		1	3	21.27	21.48	21.46	0-1	0
		1	5	21.35	21.55	21.38	0-1	0
		3	0	21.15	21.28	21.14	0-1	0
		3	1	20.98	21.19	21.12	0-1	0
		3	3	21.04	21.33	21.18	0-1	0
		6	0	21.17	21.63	21.20	0-2	0
	64QAM	1	0	21.22	21.34	21.25	0-2	0
		1	3	21.20	21.39	21.23	0-2	0
		1	5	21.19	21.44	21.31	0-2	0
		3	0	21.17	21.26	21.18	0-2	0
		3	1	21.15	21.33	21.24	0-2	0
		3	3	21.17	21.35	21.04	0-2	0
		6	0	20.97	21.31	21.13	0-3	0
	256QAM	1	0	19.10	19.37	19.22	0-5	2
		1	3	19.42	19.33	19.01	0-5	2
		1	5	19.14	19.27	19.26	0-5	2
		3	0	19.17	19.28	19.12	0-5	2
		3	1	19.03	19.23	19.10	0-5	2
		3	3	18.99	19.15	19.20	0-5	2
		6	0	18.99	19.02	19.03	0-5	2

LTE Band 25 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26055 Ch. 1851.5 MHz	26365 Ch. 1882.5 MHz	26675 Ch. 1913.5 MHz		
3 MHz	QPSK	1	0	20.99	21.26	21.05	0	0
		1	7	20.96	21.18	21.07	0	0
		1	14	21.06	21.33	21.08	0	0
		8	0	21.07	21.38	21.16	0-1	0
		8	3	21.11	21.29	21.26	0-1	0
		8	7	21.08	21.29	21.20	0-1	0
		15	0	21.16	21.30	21.22	0-1	0
	16QAM	1	0	21.30	21.53	21.32	0-1	0
		1	7	21.31	21.54	21.26	0-1	0
		1	14	21.44	21.59	21.58	0-1	0
		8	0	21.12	21.32	21.22	0-2	0
		8	3	21.18	21.43	21.36	0-2	0
		8	7	21.12	21.39	21.27	0-2	0
		15	0	21.23	21.31	21.24	0-2	0
	64QAM	1	0	21.27	21.48	21.18	0-2	0
		1	7	21.54	21.16	21.12	0-2	0
		1	14	21.23	21.54	21.36	0-2	0
		8	0	21.18	21.46	21.25	0-3	0
		8	3	21.15	21.35	21.20	0-3	0
		8	7	21.18	21.42	21.29	0-3	0
		15	0	21.13	21.31	21.12	0-3	0
	256QAM	1	0	19.22	19.45	19.26	0-5	2
		1	7	19.09	19.31	19.20	0-5	2
		1	14	19.23	19.43	19.30	0-5	2
		8	0	19.11	19.27	19.09	0-5	2
		8	3	18.93	19.26	19.16	0-5	2
		8	7	19.10	19.40	19.13	0-5	2
		15	0	18.96	19.26	19.07	0-5	2

LTE Band 25 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26065 Ch. 1852.5 MHz	26365 Ch. 1882.5 MHz	26665 Ch. 1912.5 MHz		
5 MHz	QPSK	1	0	20.96	21.23	21.13	0	0
		1	12	20.99	21.27	21.12	0	0
		1	24	21.88	21.23	21.05	0	0
		12	0	21.04	21.32	21.14	0-1	0
		12	6	21.11	21.36	21.25	0-1	0
		12	11	21.12	21.30	21.26	0-1	0
		25	0	21.16	21.37	21.08	0-1	0
	16QAM	1	0	21.27	21.47	21.35	0-1	0
		1	12	21.38	21.59	21.57	0-1	0
		1	24	21.46	21.68	21.51	0-1	0
		12	0	21.24	21.43	20.41	0-2	0
		12	6	21.10	21.41	21.25	0-2	0
		12	11	21.10	21.34	21.29	0-2	0
		25	0	21.15	21.43	21.09	0-2	0
	64QAM	1	0	21.15	21.28	21.23	0-2	0
		1	12	21.58	21.75	21.71	0-2	0
		1	24	21.22	21.41	21.29	0-2	0
		12	0	21.10	21.32	21.19	0-3	0
		12	6	21.20	21.40	21.21	0-3	0
		12	11	21.18	21.40	21.27	0-3	0
		25	0	21.11	21.33	21.19	0-3	0
	256QAM	1	0	18.86	19.43	19.21	0-5	2
		1	12	19.22	19.30	19.11	0-5	2
		1	24	19.23	19.34	19.28	0-5	2
		12	0	19.05	19.28	19.08	0-5	2
		12	6	19.02	19.20	19.19	0-5	2
		12	11	18.99	19.33	19.13	0-5	2
		25	0	18.96	19.19	19.08	0-5	2

LTE Band 25 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26090 Ch. 1855 MHz	26365 Ch. 1882.5 MHz	26640 Ch. 1910 MHz		
10 MHz	QPSK	1	0	20.69	20.80	21.03	0	0
		1	24	20.90	21.29	20.96	0	0
		1	49	20.68	20.94	21.09	0	0
		25	0	21.03	21.22	21.16	0-1	0
		25	12	21.05	21.33	21.21	0-1	0
		25	24	21.04	21.27	21.16	0-1	0
		50	0	21.08	21.25	21.11	0-1	0
	16QAM	1	0	21.11	21.32	21.53	0-1	0
		1	24	21.26	21.53	21.32	0-1	0
		1	49	21.12	21.21	21.42	0-1	0
		25	0	21.03	21.25	21.16	0-2	0
		25	12	21.16	21.38	21.30	0-2	0
		25	24	21.14	21.33	21.33	0-2	0
		50	0	21.10	21.31	21.01	0-2	0
	64QAM	1	0	20.93	21.21	21.24	0-2	0
		1	24	21.24	21.45	21.25	0-2	0
		1	49	20.93	21.39	21.39	0-2	0
		25	0	21.03	21.25	21.07	0-3	0
		25	12	21.13	21.37	21.29	0-3	0
		25	24	21.09	21.34	21.17	0-3	0
		50	0	21.06	21.21	21.24	0-3	0
	256QAM	1	0	18.94	19.13	19.06	0-5	2
		1	24	19.11	19.30	19.21	0-5	2
		1	49	18.95	19.04	18.88	0-5	2
		25	0	18.90	19.10	19.03	0-5	2
		25	12	19.07	19.35	19.15	0-5	2
		25	24	19.04	19.15	19.09	0-5	2
		50	0	18.85	19.15	19.00	0-5	2

LTE Band 25 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26115 Ch. 1857.5 MHz	26365 Ch. 1882.5 MHz	26615 Ch. 1907.5 MHz		
15 MHz	QPSK	1	0	20.68	21.10	21.03	0	0
		1	36	20.78	21.13	21.11	0	0
		1	74	20.87	21.12	21.12	0	0
		36	0	20.96	21.07	20.89	0-1	0
		36	18	21.02	21.24	21.11	0-1	0
		36	39	21.01	21.19	21.08	0-1	0
		75	0	20.99	21.22	20.97	0-1	0
	16QAM	1	0	21.12	21.49	21.41	0-1	0
		1	36	21.36	21.45	21.33	0-1	0
		1	74	21.20	21.48	21.45	0-1	0
		36	0	20.93	21.13	20.99	0-2	0
		36	18	21.00	21.31	21.05	0-2	0
		36	39	21.10	21.26	21.24	0-2	0
		75	0	21.02	21.16	21.01	0-2	0
	64QAM	1	0	21.01	21.34	21.29	0-2	0
		1	36	21.35	21.50	21.42	0-2	0
		1	74	21.19	21.50	21.35	0-2	0
		36	0	21.02	21.05	20.56	0-3	0
		36	18	21.06	21.31	20.24	0-3	0
		36	39	21.11	21.26	20.33	0-3	0
		75	0	21.03	21.13	20.75	0-3	0
	256QAM	1	0	18.90	18.91	18.86	0-5	2
		1	36	18.94	19.28	19.12	0-5	2
		1	74	18.95	19.28	19.00	0-5	2
		36	0	18.86	19.10	18.96	0-5	2
		36	18	18.95	19.30	19.01	0-5	2
		36	39	18.97	19.20	19.06	0-5	2
		75	0	18.95	19.07	18.99	0-5	2

LTE Band 25_ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26140 Ch. 1860 MHz	26365 Ch. 1882.5 MHz	26590 Ch. 1905 MHz		
20 MHz	QPSK	1	0	20.92	21.12	20.99	0	0
		1	49	20.89	21.08	21.03	0	0
		1	99	20.99	21.20	21.05	0	0
		50	0	20.99	21.10	21.06	0-1	0
		50	25	21.01	21.18	21.05	0-1	0
		50	49	21.06	21.26	21.08	0-1	0
		100	0	20.94	21.19	20.96	0-1	0
	16QAM	1	0	21.28	21.44	21.49	0-1	0
		1	49	21.27	21.48	21.36	0-1	0
		1	99	21.35	21.50	21.49	0-1	0
		50	0	21.02	21.24	21.05	0-2	0
		50	25	21.08	21.20	21.14	0-2	0
		50	49	21.16	21.23	21.26	0-2	0
		100	0	21.01	21.09	21.07	0-2	0
	64QAM	1	0	21.29	21.40	21.37	0-2	0
		1	49	21.11	21.50	21.38	0-2	0
		1	99	21.25	21.41	21.27	0-2	0
		50	0	21.05	21.18	21.03	0-3	0
		50	25	21.04	21.17	21.11	0-3	0
		50	49	21.16	21.25	21.20	0-3	0
		100	0	20.99	21.18	21.11	0-3	0
	256QAM	1	0	18.67	18.97	18.63	0-5	2
		1	49	19.05	19.21	19.21	0-5	2
		1	99	18.90	19.12	18.87	0-5	2
		50	0	18.81	18.98	18.81	0-5	2
		50	25	18.92	19.14	19.00	0-5	2
		50	49	18.99	19.04	19.04	0-5	2
		100	0	18.93	18.97	18.98	0-5	2

[LTE Band 30 Conducted Power]

LTE Band 30 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				27685 Ch. 2307.5 MHz	27710 Ch. 2310 MHz	27735 Ch. 2312.5 MHz		
5 MHz	QPSK	1	0	21.29	21.18	21.21	0	0
		1	12	21.23	21.17	21.07	0	0
		1	24	21.08	21.05	20.94	0	0
		12	0	21.27	21.21	21.20	0-1	0
		12	6	21.21	21.15	21.19	0-1	0
		12	11	21.10	21.14	21.19	0-1	0
		25	0	21.20	21.14	21.19	0-1	0
	16QAM	1	0	21.59	21.56	21.42	0-1	0
		1	12	21.64	21.74	21.30	0-1	0
		1	24	21.30	21.45	21.42	0-1	0
		12	0	21.31	21.20	21.20	0-2	0
		12	6	21.18	21.12	21.26	0-2	0
		12	11	21.20	21.14	21.24	0-2	0
		25	0	21.18	21.18	21.19	0-2	0
	64QAM	1	0	21.44	21.50	21.39	0-2	0
		1	12	21.39	21.30	21.33	0-2	0
		1	24	21.31	21.25	21.20	0-2	0
		12	0	20.33	20.24	20.21	0-3	0
		12	6	20.17	20.23	20.33	0-3	0
		12	11	20.21	20.21	20.16	0-3	0
		25	0	20.06	20.02	20.11	0-3	0
	256QAM	1	0	18.14	18.18	18.14	0-5	2
		1	12	18.09	18.18	17.73	0-5	2
		1	24	18.01	18.04	17.96	0-5	2
		12	0	18.02	17.99	17.90	0-5	2
		12	6	18.01	18.02	18.00	0-5	2
		12	11	17.98	18.00	17.93	0-5	2
		25	0	17.98	17.93	18.01	0-5	2

LTE Band 30 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				27710 Ch. 2310 MHz		
10 MHz	QPSK	1	0	21.28	0	0
		1	24	21.11	0	0
		1	49	21.15	0	0
		25	0	21.14	0-1	0
		25	12	21.18	0-1	0
		25	24	21.10	0-1	0
		50	0	21.12	0-1	0
	16QAM	1	0	21.62	0-1	0
		1	24	21.43	0-1	0
		1	49	21.43	0-1	0
		25	0	21.14	0-2	0
		25	12	21.21	0-2	0
		25	24	21.02	0-2	0
		50	0	21.13	0-2	0
	64QAM	1	0	21.52	0-2	0
		1	24	21.48	0-2	0
		1	49	21.30	0-2	0
		25	0	20.26	0-3	0
		25	12	20.21	0-3	0
		25	24	20.11	0-3	0
		50	0	20.06	0-3	0
	256QAM	1	0	17.97	0-5	2
		1	24	18.06	0-5	2
		1	49	17.64	0-5	2
		25	0	17.99	0-5	2
		25	12	17.95	0-5	2
		25	24	17.82	0-5	2
		50	0	17.86	0-5	2

[LTE Band 66 Conducted Power]

LTE Band 66 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131979Ch. 1710.7 MHz	132322 Ch. 1745 MHz	132665 Ch. 1779.3 MHz		
1.4 MHz	QPSK	1	0	21.24	21.45	21.04	0	0
		1	3	21.28	21.43	21.08	0	0
		1	5	21.22	21.32	21.03	0	0
		3	0	21.29	21.38	21.09	0	0
		3	1	21.38	21.42	21.17	0	0
		3	3	21.30	21.29	21.08	0	0
		6	0	21.39	21.53	21.15	0-1	0
	16QAM	1	0	21.52	21.73	21.50	0-1	0
		1	3	21.82	21.92	21.57	0-1	0
		1	5	21.73	21.72	21.37	0-1	0
		3	0	21.43	21.45	21.30	0-1	0
		3	1	21.40	21.49	21.15	0-1	0
		3	3	21.37	21.38	21.12	0-1	0
		6	0	21.48	21.60	20.34	0-2	0
	64QAM	1	0	21.58	21.75	21.35	0-2	0
		1	3	21.66	21.29	21.32	0-2	0
		1	5	21.59	20.97	21.02	0-2	0
		3	0	21.58	20.81	20.36	0-2	0
		3	1	21.45	20.68	20.75	0-2	0
		3	3	21.42	21.13	20.76	0-2	0
		6	0	21.43	21.56	20.10	0-3	0
	256QAM	1	0	19.31	19.48	19.30	0-5	2
		1	3	19.45	19.75	18.91	0-5	2
		1	5	19.34	19.48	19.12	0-5	2
		3	0	19.42	19.51	19.28	0-5	2
		3	1	19.37	19.37	19.18	0-5	2
		3	3	19.34	19.39	19.13	0-5	2
		6	0	19.21	19.41	19.04	0-5	2

LTE Band 66 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131987 Ch. 1711.5 MHz	132322 Ch. 1745 MHz	132657 Ch. 1778.5 MHz		
3 MHz	QPSK	1	0	21.35	21.42	21.11	0	0
		1	7	21.44	21.33	21.10	0	0
		1	14	21.32	21.25	21.09	0	0
		8	0	21.48	21.42	21.26	0-1	0
		8	3	21.51	21.59	21.34	0-1	0
		8	7	21.47	21.49	21.22	0-1	0
		15	0	21.46	21.42	21.25	0-1	0
	16QAM	1	0	21.67	21.62	21.59	0-1	0
		1	7	21.85	21.43	21.49	0-1	0
		1	14	21.51	21.75	21.35	0-1	0
		8	0	21.58	21.47	21.26	0-2	0
		8	3	21.64	21.58	21.40	0-2	0
		8	7	21.55	21.55	21.17	0-2	0
		15	0	21.51	21.52	21.26	0-2	0
	64QAM	1	0	21.50	21.59	21.52	0-2	0
		1	7	21.60	21.72	21.37	0-2	0
		1	14	21.55	21.71	21.29	0-2	0
		8	0	21.58	21.52	21.28	0-3	0
		8	3	21.60	21.55	21.42	0-3	0
		8	7	21.52	21.57	21.27	0-3	0
		15	0	21.54	21.49	21.25	0-3	0
	256QAM	1	0	19.58	19.68	19.52	0-5	2
		1	7	19.40	19.53	19.19	0-5	2
		1	14	19.43	19.60	19.33	0-5	2
		8	0	19.59	19.37	19.22	0-5	2
		8	3	19.36	19.36	19.15	0-5	2
		8	7	19.33	19.43	19.10	0-5	2
		15	0	19.37	19.38	19.18	0-5	2

LTE Band 66 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131997 Ch. 1712.5 MHz	132322 Ch. 1745 MHz	132647 Ch. 1777.5 MHz		
5 MHz	QPSK	1	0	21.38	21.36	21.12	0	0
		1	12	21.38	21.39	21.44	0	0
		1	24	21.32	21.37	21.10	0	0
		12	0	21.52	21.50	21.36	0-1	0
		12	6	21.48	21.48	21.37	0-1	0
		12	11	21.48	21.50	21.24	0-1	0
		25	0	21.46	21.42	21.26	0-1	0
	16QAM	1	0	21.59	21.57	21.44	0-1	0
		1	12	21.80	21.75	21.48	0-1	0
		1	24	21.64	21.74	21.61	0-1	0
		12	0	21.54	21.52	21.26	0-2	0
		12	6	21.51	21.52	21.27	0-2	0
		12	11	21.52	21.60	21.19	0-2	0
		25	0	21.51	21.53	21.26	0-2	0
	64QAM	1	0	21.54	21.70	21.41	0-2	0
		1	12	21.59	21.59	21.29	0-2	0
		1	24	21.38	21.58	21.38	0-2	0
		12	0	21.57	21.52	21.36	0-3	0
		12	6	21.65	21.59	21.33	0-3	0
		12	11	21.53	21.56	21.30	0-3	0
		25	0	21.59	21.46	21.23	0-3	0
	256QAM	1	0	19.34	19.59	19.37	0-5	2
		1	12	19.36	19.58	19.32	0-5	2
		1	24	19.48	19.54	19.23	0-5	2
		12	0	19.47	19.43	19.24	0-5	2
		12	6	19.41	19.40	19.18	0-5	2
		12	11	19.43	19.36	19.18	0-5	2
		25	0	19.36	19.38	19.23	0-5	2

LTE Band 66 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132022 Ch. 1715 MHz	132322 Ch. 1745 MHz	132622 Ch. 1775 MHz		
10 MHz	QPSK	1	0	21.00	21.06	20.90	0	0
		1	24	21.38	21.31	21.06	0	0
		1	49	21.28	21.22	21.01	0	0
		25	0	21.31	21.38	21.24	0-1	0
		25	12	21.50	21.36	21.35	0-1	0
		25	24	21.46	21.34	21.20	0-1	0
		50	0	21.43	21.40	21.21	0-1	0
	16QAM	1	0	21.41	21.46	21.27	0-1	0
		1	24	21.76	21.82	21.64	0-1	0
		1	49	21.65	21.61	21.12	0-1	0
		25	0	21.37	21.48	21.25	0-2	0
		25	12	21.63	21.54	21.36	0-2	0
		25	24	21.46	21.50	21.30	0-2	0
		50	0	21.47	21.46	21.22	0-2	0
	64QAM	1	0	21.20	21.08	21.20	0-2	0
		1	24	21.52	21.55	21.47	0-2	0
		1	49	21.47	21.54	21.17	0-2	0
		25	0	21.50	21.52	21.28	0-3	0
		25	12	21.59	21.60	21.41	0-3	0
		25	24	21.56	21.47	21.30	0-3	0
		50	0	21.46	21.47	21.29	0-3	0
	256QAM	1	0	19.06	19.19	19.09	0-5	2
		1	24	19.40	19.36	19.30	0-5	2
		1	49	19.25	19.28	19.01	0-5	2
		25	0	19.29	19.26	19.11	0-5	2
		25	12	19.48	19.39	19.21	0-5	2
		25	24	19.38	19.30	19.18	0-5	2
		50	0	19.39	19.33	19.15	0-5	2

LTE Band 66 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132047 Ch. 1717.5 MHz	132322 Ch. 1745 MHz	132597 Ch. 1772.5 MHz		
15 MHz	QPSK	1	0	21.06	21.22	21.16	0	0
		1	36	21.40	21.41	21.10	0	0
		1	74	21.19	21.15	20.99	0	0
		36	0	21.38	21.39	21.14	0-1	0
		36	18	21.47	21.32	21.24	0-1	0
		36	39	21.42	21.35	21.14	0-1	0
		75	0	21.38	21.35	21.29	0-1	0
	16QAM	1	0	21.48	21.46	21.59	0-1	0
		1	36	21.78	21.64	21.44	0-1	0
		1	74	21.64	21.52	21.33	0-1	0
		36	0	21.35	21.33	21.22	0-2	0
		36	18	21.49	21.39	21.25	0-2	0
		36	39	21.39	21.46	21.25	0-2	0
		75	0	21.49	21.40	21.27	0-2	0
	64QAM	1	0	21.41	21.26	21.37	0-2	0
		1	36	21.64	21.50	21.25	0-2	0
		1	74	21.50	21.43	21.31	0-2	0
		36	0	21.39	21.33	21.23	0-3	0
		36	18	21.50	21.35	21.26	0-3	0
		36	39	21.48	21.41	21.25	0-3	0
		75	0	21.48	21.36	21.21	0-3	0
	256QAM	1	0	19.16	19.25	19.13	0-5	2
		1	36	19.29	19.41	19.24	0-5	2
		1	74	19.36	19.14	18.97	0-5	2
		36	0	19.23	19.32	19.12	0-5	2
		36	18	19.34	19.25	19.19	0-5	2
		36	39	19.34	19.19	19.11	0-5	2
		75	0	19.32	19.25	19.06	0-5	2

LTE Band 66 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132072 Ch. 1720 MHz	132322 Ch. 1745 MHz	132572 Ch. 1770 MHz		
20 MHz	QPSK	1	0	20.93	20.91	21.14	0	0
		1	49	21.31	21.28	21.09	0	0
		1	99	21.09	21.06	21.03	0	0
		50	0	21.27	21.38	21.20	0-1	0
		50	25	21.45	21.44	21.28	0-1	0
		50	49	21.40	21.28	21.08	0-1	0
		100	0	21.43	21.32	21.15	0-1	0
	16QAM	1	0	21.31	21.34	21.45	0-1	0
		1	49	21.72	21.73	21.42	0-1	0
		1	99	21.55	21.44	21.51	0-1	0
		50	0	21.29	21.28	21.26	0-2	0
		50	25	21.48	21.41	21.28	0-2	0
		50	49	21.42	21.38	21.04	0-2	0
		100	0	21.38	21.33	21.16	0-2	0
	64QAM	1	0	21.26	21.11	21.41	0-2	0
		1	49	21.53	21.66	21.29	0-2	0
		1	99	21.44	21.25	21.22	0-2	0
		50	0	21.34	21.39	21.23	0-3	0
		50	25	21.48	21.43	21.31	0-3	0
		50	49	21.48	21.40	21.13	0-3	0
		100	0	21.41	21.31	21.15	0-3	0
	256QAM	1	0	19.00	19.18	18.98	0-5	2
		1	49	19.39	19.31	19.25	0-5	2
		1	99	19.25	19.18	18.94	0-5	2
		50	0	19.15	19.16	19.11	0-5	2
		50	25	19.39	19.32	19.22	0-5	2
		50	49	19.39	19.26	18.97	0-5	2
		100	0	19.31	19.20	19.21	0-5	2

11.3.3 LTE Reduced Conducted Power(Grip Sensor on) [LTE Band 2 Conducted Power]

LTE Band 2 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18607 Ch. 1850.7 MHz	18900 Ch. 1880 MHz	19193 Ch. 1909.3 MHz		
1.4 MHz	QPSK	1	0	20.87	21.10	20.94	0	0
		1	3	20.89	21.33	20.97	0	0
		1	5	20.88	21.00	21.03	0	0
		3	0	20.91	21.04	20.97	0	0
		3	1	20.91	21.11	20.91	0	0
		3	3	20.91	21.06	20.94	0	0
		6	0	20.96	21.08	21.04	0-1	0
	16QAM	1	0	21.12	21.47	21.25	0-1	0
		1	3	21.27	21.58	21.27	0-1	0
		1	5	21.03	21.31	21.28	0-1	0
		3	0	20.91	21.29	21.04	0-1	0
		3	1	21.03	21.16	21.02	0-1	0
		3	3	20.87	21.08	21.09	0-1	0
		6	0	21.08	21.22	21.10	0-2	0
	64QAM	1	0	21.21	20.91	21.24	0-2	0
		1	3	21.16	21.32	21.23	0-2	0
		1	5	21.21	21.37	21.19	0-2	0
		3	0	21.02	21.21	21.10	0-2	0
		3	1	21.11	21.16	21.09	0-2	0
		3	3	21.09	21.24	21.09	0-2	0
		6	0	20.99	21.03	21.11	0-3	0
	256QAM	1	0	19.14	19.01	19.21	0-5	2
		1	3	19.02	19.49	19.23	0-5	2
		1	5	18.88	19.31	19.23	0-5	2
		3	0	19.20	19.27	19.21	0-5	2
		3	1	18.99	19.14	19.12	0-5	2
		3	3	18.99	19.37	19.03	0-5	2
		6	0	18.87	19.08	19.02	0-5	2

LTE Band 2 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18615 Ch. 1851.5 MHz	18900 Ch. 1880 MHz	19185 Ch. 1908.5 MHz		
3 MHz	QPSK	1	0	21.00	21.25	20.99	0	0
		1	7	20.88	21.36	20.98	0	0
		1	14	20.87	21.00	20.96	0	0
		8	0	21.15	21.27	21.13	0-1	0
		8	3	21.15	21.20	21.06	0-1	0
		8	7	20.97	21.26	21.07	0-1	0
		15	0	21.08	21.13	21.12	0-1	0
	16QAM	1	0	21.24	21.50	21.34	0-1	0
		1	7	20.97	21.42	21.43	0-1	0
		1	14	21.24	21.40	21.35	0-1	0
		8	0	21.12	21.24	21.14	0-2	0
		8	3	21.15	21.27	21.21	0-2	0
		8	7	21.04	21.21	21.12	0-2	0
		15	0	21.02	21.06	21.18	0-2	0
	64QAM	1	0	21.18	21.32	21.25	0-2	0
		1	7	21.14	21.30	21.27	0-2	0
		1	14	21.20	21.30	21.38	0-2	0
		8	0	21.21	21.27	21.14	0-3	0
		8	3	21.20	21.39	21.18	0-3	0
		8	7	21.10	21.27	21.14	0-3	0
		15	0	21.08	21.21	21.12	0-3	0
	256QAM	1	0	19.20	19.42	19.10	0-5	2
		1	7	19.22	19.36	19.27	0-5	2
		1	14	19.23	19.32	19.16	0-5	2
		8	0	19.04	19.25	18.61	0-5	2
		8	3	19.10	19.17	19.11	0-5	2
		8	7	19.02	19.23	19.17	0-5	2
		15	0	18.99	19.18	19.05	0-5	2

LTE Band 2 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18625 Ch. 1852.5 MHz	18900 Ch. 1880 MHz	19175 Ch. 1907.5 MHz		
5 MHz	QPSK	1	0	20.92	21.05	21.00	0	0
		1	12	21.09	21.12	21.18	0	0
		1	24	20.80	21.08	20.83	0	0
		12	0	21.08	21.19	21.14	0-1	0
		12	6	21.07	21.20	21.17	0-1	0
		12	11	20.88	21.22	21.14	0-1	0
		25	0	21.01	21.17	21.10	0-1	0
	16QAM	1	0	21.21	21.18	21.19	0-1	0
		1	12	21.04	21.07	21.15	0-1	0
		1	24	21.17	21.42	21.19	0-1	0
		12	0	21.11	21.17	21.12	0-2	0
		12	6	21.05	21.32	21.23	0-2	0
		12	11	21.06	21.20	21.01	0-2	0
		25	0	21.00	21.25	21.06	0-2	0
	64QAM	1	0	21.12	21.31	21.11	0-2	0
		1	12	21.10	21.30	21.24	0-2	0
		1	24	21.10	21.19	21.09	0-2	0
		12	0	21.13	21.27	21.12	0-3	0
		12	6	21.16	21.26	21.19	0-3	0
		12	11	21.11	21.30	21.12	0-3	0
		25	0	21.07	21.23	21.18	0-3	0
	256QAM	1	0	19.11	19.33	18.90	0-5	2
		1	12	19.09	19.04	19.25	0-5	2
		1	24	18.90	19.24	19.12	0-5	2
		12	0	19.12	19.18	19.09	0-5	2
		12	6	18.93	19.20	19.14	0-5	2
		12	11	19.06	19.20	19.08	0-5	2
		25	0	19.00	19.16	19.09	0-5	2

LTE Band 2 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18650 Ch. 1855 MHz	18900 Ch. 1880 MHz	19150 Ch. 1905 MHz		
10 MHz	QPSK	1	0	20.64	20.60	21.02	0	0
		1	24	20.83	21.15	21.08	0	0
		1	49	20.68	20.93	20.99	0	0
		25	0	20.94	21.07	20.96	0-1	0
		25	12	21.04	21.18	21.11	0-1	0
		25	24	20.97	21.10	21.03	0-1	0
		50	0	21.00	21.10	21.00	0-1	0
	16QAM	1	0	20.92	20.99	21.43	0-1	0
		1	24	21.22	21.38	21.38	0-1	0
		1	49	21.02	21.17	21.45	0-1	0
		25	0	20.97	21.08	20.94	0-2	0
		25	12	21.11	21.27	21.18	0-2	0
		25	24	20.90	21.13	21.09	0-2	0
		50	0	20.99	21.08	21.04	0-2	0
	64QAM	1	0	20.73	20.97	21.32	0-2	0
		1	24	21.24	21.41	21.14	0-2	0
		1	49	21.03	21.18	21.46	0-2	0
		25	0	21.03	21.15	20.37	0-3	0
		25	12	21.09	21.25	20.53	0-3	0
		25	24	20.98	21.17	20.74	0-3	0
		50	0	21.05	21.08	20.42	0-3	0
	256QAM	1	0	18.84	19.01	18.90	0-5	2
		1	24	19.02	19.36	19.28	0-5	2
		1	49	18.83	19.03	18.95	0-5	2
		25	0	18.85	18.99	18.93	0-5	2
		25	12	19.04	19.07	19.21	0-5	2
		25	24	18.95	19.07	18.98	0-5	2
		50	0	18.90	19.01	18.91	0-5	2

LTE Band 2 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18675 Ch. 1857.5 MHz	18900 Ch. 1880 MHz	19125 Ch. 1902.5 MHz		
15 MHz	QPSK	1	0	20.70	20.96	20.79	0	0
		1	36	20.75	20.92	20.98	0	0
		1	74	20.69	21.00	20.77	0	0
		36	0	20.75	20.93	20.78	0-1	0
		36	18	20.87	21.03	20.93	0-1	0
		36	39	20.88	21.08	20.98	0-1	0
		75	0	20.91	21.03	20.91	0-1	0
	16QAM	1	0	20.91	21.11	21.24	0-1	0
		1	36	21.07	21.26	21.13	0-1	0
		1	74	21.03	21.28	21.26	0-1	0
		36	0	20.81	20.90	20.83	0-2	0
		36	18	20.86	21.06	20.99	0-2	0
		36	39	20.89	21.14	20.98	0-2	0
		75	0	20.87	21.05	20.88	0-2	0
	64QAM	1	0	20.76	21.07	21.14	0-2	0
		1	36	21.04	21.06	21.18	0-2	0
		1	74	20.96	21.22	21.05	0-2	0
		36	0	20.81	20.93	20.91	0-3	0
		36	18	20.87	21.12	20.97	0-3	0
		36	39	20.98	21.10	21.08	0-3	0
		75	0	20.88	21.05	20.93	0-3	0
	256QAM	1	0	18.85	19.02	19.03	0-5	2
		1	36	18.77	19.10	19.01	0-5	2
		1	74	18.68	19.07	19.05	0-5	2
		36	0	18.87	18.95	18.85	0-5	2
		36	18	18.85	18.99	18.97	0-5	2
		36	39	18.86	19.16	19.02	0-5	2
		75	0	18.83	19.01	18.88	0-5	2

LTE Band 2 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18700 Ch. 1860 MHz	18900 Ch. 1880 MHz	19100 Ch. 1900 MHz		
20 MHz	QPSK	1	0	20.78	20.95	20.85	0	0
		1	49	20.71	20.96	20.88	0	0
		1	99	20.90	20.96	20.79	0	0
		50	0	20.72	20.88	20.85	0-1	0
		50	25	20.82	21.09	20.97	0-1	0
		50	49	20.92	21.09	20.94	0-1	0
		100	0	20.74	20.97	20.91	0-1	0
	16QAM	1	0	21.10	21.15	21.28	0-1	0
		1	49	21.11	21.30	21.25	0-1	0
		1	99	21.20	21.32	21.22	0-1	0
		50	0	20.70	20.97	20.95	0-2	0
		50	25	20.87	20.99	21.07	0-2	0
		50	49	20.99	21.06	21.04	0-2	0
		100	0	20.86	21.00	20.96	0-2	0
	64QAM	1	0	20.87	21.15	21.04	0-2	0
		1	49	20.96	21.17	21.28	0-2	0
		1	99	21.13	21.26	21.26	0-2	0
		50	0	20.76	21.00	20.87	0-3	0
		50	25	20.90	21.09	21.02	0-3	0
		50	49	20.91	21.17	21.00	0-3	0
		100	0	20.79	21.10	21.00	0-3	0
	256QAM	1	0	19.02	19.12	19.11	0-5	2
		1	49	18.94	19.07	19.00	0-5	2
		1	99	18.83	18.88	18.82	0-5	2
		50	0	18.74	18.87	18.90	0-5	2
		50	25	18.82	18.97	19.00	0-5	2
		50	49	18.89	19.07	18.97	0-5	2
		100	0	18.82	18.95	18.93	0-5	2

[LTE Band 4 Conducted Power]

LTE Band 4 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19957 Ch. 1710.7 MHz	20175 Ch. 1732.5 MHz	20393 Ch. 1754.3 MHz		
1.4 MHz	QPSK	1	0	21.17	21.33	21.28	0	0
		1	3	21.21	21.47	21.26	0	0
		1	5	21.21	21.32	21.26	0	0
		3	0	21.26	21.35	21.26	0-1	0
		3	1	21.31	21.49	21.25	0-1	0
		3	3	21.14	21.30	21.27	0-1	0
		6	0	21.34	21.44	21.40	0-1	0
	16QAM	1	0	21.58	21.77	21.53	0-1	0
		1	3	21.85	21.75	21.70	0-1	0
		1	5	21.67	21.66	21.64	0-1	0
		3	0	21.46	21.45	21.26	0-2	0
		3	1	21.38	21.40	21.36	0-2	0
		3	3	21.40	21.46	21.34	0-2	0
		6	0	21.52	21.53	20.94	0-2	0
	64QAM	1	0	21.59	21.56	21.34	0-2	0
		1	3	21.69	21.74	21.35	0-2	0
		1	5	21.43	21.60	21.22	0-2	0
		3	0	21.46	21.48	20.70	0-3	0
		3	1	21.51	21.58	21.30	0-3	0
		3	3	21.48	21.59	21.43	0-3	0
		6	0	21.41	21.38	21.40	0-3	0
	256QAM	1	0	19.29	19.51	19.31	0-5	2
		1	3	19.30	19.49	19.22	0-5	2
		1	5	19.25	19.42	19.39	0-5	2
		3	0	19.35	19.43	19.45	0-5	2
		3	1	19.39	19.52	19.30	0-5	2
		3	3	19.27	19.45	19.34	0-5	2
		6	0	19.17	19.28	19.26	0-5	2

LTE Band 4 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19965 Ch. 1711.5 MHz	20175 Ch. 1732.5 MHz	20385 Ch. 1753.5 MHz		
3 MHz	QPSK	1	0	21.28	21.41	21.32	0	0
		1	7	21.55	21.40	21.27	0	0
		1	14	21.33	21.35	21.21	0	0
		8	0	21.39	21.43	21.33	0-1	0
		8	3	21.50	21.54	21.33	0-1	0
		8	7	21.48	21.48	21.31	0-1	0
		15	0	21.47	21.49	21.31	0-1	0
	16QAM	1	0	21.60	21.70	21.60	0-1	0
		1	7	21.64	21.67	21.63	0-1	0
		1	14	21.59	21.77	21.70	0-1	0
		8	0	21.50	21.57	21.39	0-2	0
		8	3	21.57	21.66	21.41	0-2	0
		8	7	21.49	21.52	21.37	0-2	0
		15	0	21.42	21.44	21.34	0-2	0
	64QAM	1	0	21.62	21.67	21.49	0-2	0
		1	7	21.60	21.61	21.49	0-2	0
		1	14	21.73	21.43	21.55	0-2	0
		8	0	21.45	21.54	21.36	0-3	0
		8	3	21.54	21.63	21.50	0-3	0
		8	7	21.38	21.52	21.49	0-3	0
		15	0	21.53	21.49	21.41	0-3	0
	256QAM	1	0	19.31	19.42	19.49	0-5	2
		1	7	19.42	19.46	19.51	0-5	2
		1	14	19.44	19.36	19.42	0-5	2
		8	0	19.31	19.42	19.25	0-5	2
		8	3	19.44	19.37	19.27	0-5	2
		8	7	19.32	19.41	19.32	0-5	2
		15	0	19.30	19.40	19.12	0-5	2

LTE Band 4 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19975 Ch. 1712.5 MHz	20175 Ch. 1732.5 MHz	20375 Ch. 1752.5 MHz		
5 MHz	QPSK	1	0	21.32	21.29	21.23	0	0
		1	12	21.40	21.42	21.31	0	0
		1	24	21.29	21.38	21.19	0	0
		12	0	21.38	21.51	21.45	0-1	0
		12	6	21.42	21.51	21.48	0-1	0
		12	11	21.41	21.51	21.38	0-1	0
		25	0	21.45	21.44	21.40	0-1	0
	16QAM	1	0	21.63	21.76	21.62	0-1	0
		1	12	21.91	21.63	21.65	0-1	0
		1	24	21.52	21.60	21.67	0-1	0
		12	0	21.33	21.45	21.38	0-2	0
		12	6	21.52	21.51	21.42	0-2	0
		12	11	21.51	21.49	21.38	0-2	0
		25	0	21.40	21.53	21.41	0-2	0
	64QAM	1	0	21.55	21.56	21.46	0-2	0
		1	12	21.55	21.61	21.59	0-2	0
		1	24	21.42	21.47	21.49	0-2	0
		12	0	21.33	21.49	21.50	0-3	0
		12	6	21.55	21.59	21.41	0-3	0
		12	11	21.55	21.59	21.40	0-3	0
		25	0	21.50	21.54	21.45	0-3	0
	256QAM	1	0	19.41	19.38	19.51	0-5	2
		1	12	19.55	19.56	19.40	0-5	2
		1	24	19.36	19.42	19.33	0-5	2
		12	0	19.20	19.35	19.32	0-5	2
		12	6	19.32	19.46	19.26	0-5	2
		12	11	19.37	19.46	19.27	0-5	2
		25	0	19.25	19.36	19.26	0-5	2

LTE Band 4 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20000 Ch. 1715 MHz	20175 Ch. 1732.5 MHz	20350 Ch. 1750 MHz		
10 MHz	QPSK	1	0	21.02	20.89	20.89	0	0
		1	24	21.35	21.23	21.44	0	0
		1	49	21.18	21.08	20.95	0	0
		25	0	21.28	21.27	21.28	0-1	0
		25	12	21.50	21.58	21.34	0-1	0
		25	24	21.35	21.39	21.34	0-1	0
		50	0	21.39	21.46	21.21	0-1	0
	16QAM	1	0	21.41	21.50	21.30	0-1	0
		1	24	21.77	21.69	21.81	0-1	0
		1	49	21.54	21.41	21.25	0-1	0
		25	0	21.30	21.41	21.27	0-2	0
		25	12	21.50	21.57	21.34	0-2	0
		25	24	21.44	21.40	21.32	0-2	0
		50	0	21.42	21.41	21.23	0-2	0
	64QAM	1	0	21.24	21.26	21.25	0-2	0
		1	24	21.60	21.63	21.65	0-2	0
		1	49	21.35	21.32	21.27	0-2	0
		25	0	21.39	21.35	21.25	0-3	0
		25	12	21.58	21.55	21.42	0-3	0
		25	24	21.46	21.42	21.42	0-3	0
		50	0	21.37	21.42	21.18	0-3	0
	256QAM	1	0	19.40	19.45	19.43	0-5	2
		1	24	19.41	19.44	19.40	0-5	2
		1	49	19.19	19.22	19.15	0-5	2
		25	0	19.24	19.19	19.14	0-5	2
		25	12	19.46	19.42	19.32	0-5	2
		25	24	19.32	19.23	19.12	0-5	2
		50	0	19.32	19.33	19.18	0-5	2

LTE Band 4 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20025 Ch. 1717.5 MHz	20175 Ch. 1732.5 MHz	20325 Ch. 1747.5 MHz		
15 MHz	QPSK	1	0	21.00	21.10	20.92	0	0
		1	36	21.26	21.31	21.28	0	0
		1	74	21.27	21.10	21.20	0	0
		36	0	21.17	21.25	21.21	0-1	0
		36	18	21.35	21.37	21.24	0-1	0
		36	39	21.40	21.33	21.29	0-1	0
		75	0	21.35	21.25	21.21	0-1	0
	16QAM	1	0	21.39	21.42	21.34	0-1	0
		1	36	21.56	21.56	21.46	0-1	0
		1	74	21.50	21.53	21.42	0-1	0
		36	0	21.14	21.24	21.14	0-2	0
		36	18	21.39	21.37	21.27	0-2	0
		36	39	21.34	21.35	21.29	0-2	0
		75	0	21.34	21.28	21.21	0-2	0
	64QAM	1	0	21.12	21.19	21.09	0-2	0
		1	36	21.58	21.53	21.38	0-2	0
		1	74	21.48	21.48	21.44	0-2	0
		36	0	21.15	21.32	21.23	0-3	0
		36	18	21.40	21.45	21.27	0-3	0
		36	39	21.33	21.39	21.37	0-3	0
		75	0	21.28	21.27	21.21	0-3	0
	256QAM	1	0	19.26	19.38	19.32	0-5	2
		1	36	19.24	19.36	19.22	0-5	2
		1	74	19.21	19.25	19.18	0-5	2
		36	0	19.01	19.08	19.06	0-5	2
		36	18	19.29	19.26	19.09	0-5	2
		36	39	19.29	19.21	19.22	0-5	2
		75	0	19.15	19.12	19.13	0-5	2

LTE Band 4 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20050 Ch. 170 MHz	20175 Ch. 1732.5 MHz	20300 Ch. 1745 MHz		
20 MHz	QPSK	1	0	20.83	20.96	20.83	0	0
		1	49	21.19	21.23	21.28	0	0
		1	99	21.13	21.01	21.01	0	0
		50	0	21.08	21.20	21.14	0-1	0
		50	25	21.33	21.34	21.29	0-1	0
		50	49	21.35	21.35	21.25	0-1	0
		100	0	21.29	21.24	21.25	0-1	0
	16QAM	1	0	21.19	21.19	21.16	0-1	0
		1	49	21.47	21.58	21.47	0-1	0
		1	99	21.49	21.42	21.31	0-1	0
		50	0	21.19	21.22	21.10	0-2	0
		50	25	21.35	21.35	21.34	0-2	0
		50	49	21.35	21.29	21.29	0-2	0
		100	0	21.36	21.25	21.17	0-2	0
	64QAM	1	0	21.05	21.19	21.06	0-2	0
		1	49	21.45	21.56	21.41	0-2	0
		1	99	21.40	21.31	21.27	0-2	0
		50	0	21.16	21.29	21.22	0-3	0
		50	25	21.36	21.42	21.38	0-3	0
		50	49	21.39	21.38	21.33	0-3	0
		100	0	21.28	21.27	21.23	0-3	0
	256QAM	1	0	19.31	19.41	19.23	0-5	2
		1	49	19.36	19.34	19.29	0-5	2
		1	99	19.20	19.18	19.05	0-5	2
		50	0	19.04	19.01	18.98	0-5	2
		50	25	19.31	19.32	19.24	0-5	2
		50	49	19.19	19.22	19.18	0-5	2
		100	0	19.19	19.16	19.18	0-5	2

[LTE Band 7 Conducted]

LTE Band 7 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20775 Ch. 2502.5 MHz	21100 Ch. 2535 MHz	21425 Ch. 2567.5 MHz		
5 MHz	QPSK	1	0	20.75	20.59	20.61	0	0
		1	12	20.68	20.49	20.59	0	0
		1	24	20.75	20.44	20.54	0	0
		12	0	20.83	20.56	20.65	0-1	0
		12	6	20.87	20.60	20.71	0-1	0
		12	11	20.87	20.57	20.69	0-1	0
		25	0	20.87	20.62	20.62	0-1	0
	16QAM	1	0	21.17	20.91	20.89	0-1	0
		1	12	21.00	20.85	20.92	0-1	0
		1	24	21.37	20.91	20.95	0-1	0
		12	0	20.85	20.52	20.64	0-2	0
		12	6	20.90	20.67	20.82	0-2	0
		12	11	20.85	20.70	20.69	0-2	0
		25	0	20.85	20.57	20.71	0-2	0
	64QAM	1	0	21.12	20.74	20.85	0-2	0
		1	12	20.94	20.77	20.75	0-2	0
		1	24	21.02	20.72	20.80	0-2	0
		12	0	20.90	20.65	20.77	0-3	0
		12	6	20.91	20.69	20.74	0-3	0
		12	11	20.85	20.74	20.76	0-3	0
		25	0	20.91	20.67	20.64	0-3	0
	256QAM	1	0	18.82	18.67	18.74	0-5	2
		1	12	18.90	18.59	18.79	0-5	2
		1	24	18.87	18.67	18.80	0-5	2
		12	0	18.79	18.63	18.70	0-5	2
		12	6	18.83	18.59	18.65	0-5	2
		12	11	18.82	18.63	18.64	0-5	2
		25	0	18.80	18.60	18.66	0-5	2

LTE Band 7_ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20800 Ch. 2505 MHz	21100 Ch. 2535 MHz	21400 Ch. 2565 MHz		
10 MHz	QPSK	1	0	20.80	20.53	20.60	0	0
		1	24	20.80	20.45	20.40	0	0
		1	49	20.54	20.50	20.52	0	0
		25	0	20.89	20.63	20.61	0-1	0
		25	12	20.70	20.66	20.65	0-1	0
		25	24	20.70	20.58	20.68	0-1	0
		50	0	20.66	20.50	20.48	0-1	0
	16QAM	1	0	21.36	21.03	21.13	0-1	0
		1	24	21.10	20.82	20.99	0-1	0
		1	49	20.98	20.93	20.83	0-1	0
		25	0	20.91	20.65	20.73	0-2	0
		25	12	20.85	20.67	20.69	0-2	0
		25	24	20.79	20.65	20.71	0-2	0
		50	0	20.82	20.63	20.59	0-2	0
	64QAM	1	0	21.11	20.98	20.91	0-2	0
		1	24	21.16	20.75	20.95	0-2	0
		1	49	21.06	20.83	20.91	0-2	0
		25	0	20.95	20.66	20.72	0-3	0
		25	12	20.89	20.70	20.70	0-3	0
		25	24	20.75	20.63	20.71	0-3	0
		50	0	20.74	20.55	20.58	0-3	0
	256QAM	1	0	19.01	18.68	18.71	0-5	2
		1	24	19.02	18.66	18.61	0-5	2
		1	49	18.64	18.45	18.45	0-5	2
		25	0	18.51	18.54	18.55	0-5	2
		25	12	18.69	18.73	18.63	0-5	2
		25	24	18.65	18.46	18.72	0-5	2
		50	0	18.66	18.44	18.47	0-5	2

LTE Band 7 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20825 Ch. 2507.5 MHz	21100 Ch. 2535 MHz	21375 Ch. 2562.5 MHz		
15 MHz	QPSK	1	0	20.66	20.39	20.46	0	0
		1	36	20.76	20.33	20.38	0	0
		1	74	20.44	20.36	20.40	0	0
		36	0	20.74	20.56	20.52	0-1	0
		36	18	20.78	20.56	20.65	0-1	0
		36	39	20.68	20.54	20.55	0-1	0
		75	0	20.68	20.43	20.56	0-1	0
	16QAM	1	0	21.24	20.94	20.88	0-1	0
		1	36	21.03	20.63	20.77	0-1	0
		1	74	21.01	20.80	20.73	0-1	0
		36	0	20.80	20.61	20.55	0-2	0
		36	18	20.81	20.51	20.63	0-2	0
		36	39	20.63	20.50	20.57	0-2	0
		75	0	20.74	20.47	20.60	0-2	0
	64QAM	1	0	21.05	20.57	20.69	0-2	0
		1	36	20.91	20.73	20.68	0-2	0
		1	74	20.84	20.66	20.75	0-2	0
		36	0	20.82	20.60	20.61	0-3	0
		36	18	20.85	20.57	20.74	0-3	0
		36	39	20.73	20.53	20.57	0-3	0
		75	0	20.72	20.46	20.59	0-3	0
	256QAM	1	0	19.04	18.61	18.54	0-5	2
		1	36	18.84	18.49	18.43	0-5	2
		1	74	18.71	18.36	18.51	0-5	2
		36	0	18.41	18.39	18.47	0-5	2
		36	18	18.74	18.51	18.58	0-5	2
		36	39	18.60	18.43	18.52	0-5	2
		75	0	18.65	18.37	18.52	0-5	2

LTE Band 7 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20850 Ch. 2510 MHz	21100 Ch. 2535 MHz	21350 Ch. 2560 MHz		
20 MHz	QPSK	1	0	20.73	20.44	20.49	0	0
		1	49	20.60	20.37	20.38	0	0
		1	99	20.45	20.42	20.42	0	0
		50	0	20.78	20.60	20.49	0-1	0
		50	25	20.67	20.58	20.55	0-1	0
		50	49	20.52	20.44	20.55	0-1	0
		100	0	20.58	20.47	20.41	0-1	0
	16QAM	1	0	21.26	20.95	20.79	0-1	0
		1	49	20.96	20.61	20.65	0-1	0
		1	99	20.74	20.71	20.76	0-1	0
		50	0	20.74	20.53	20.55	0-2	0
		50	25	20.70	20.52	20.51	0-2	0
		50	49	20.61	20.51	20.58	0-2	0
		100	0	20.57	20.52	20.39	0-2	0
	64QAM	1	0	20.82	20.60	20.79	0-2	0
		1	49	20.77	20.50	20.74	0-2	0
		1	99	20.80	20.69	20.54	0-2	0
		50	0	20.83	20.63	20.66	0-3	0
		50	25	20.66	20.55	20.61	0-3	0
		50	49	20.67	20.51	20.61	0-3	0
		100	0	20.58	20.53	20.52	0-3	0
	256QAM	1	0	18.94	18.54	18.71	0-5	2
		1	49	18.85	18.47	18.63	0-5	2
		1	99	18.32	18.24	18.26	0-5	2
		50	0	18.63	18.39	18.40	0-5	2
		50	25	18.51	18.44	18.44	0-5	2
		50	49	18.54	18.39	18.33	0-5	2
		100	0	18.51	18.42	18.37	0-5	2

[LTE Band 25 Conducted Power]

LTE Band 25 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26047 Ch. 1850.7 MHz	26365 Ch. 1882.5 MHz	26683 Ch. 1914.3 MHz		
1.4 MHz	QPSK	1	0	20.92	21.16	20.94	0	0
		1	3	21.14	21.14	21.04	0	0
		1	5	21.01	21.13	21.00	0	0
		3	0	20.98	21.11	21.01	0-1	0
		3	1	21.00	21.19	21.04	0-1	0
		3	3	20.94	21.11	20.98	0-1	0
		6	0	21.00	21.22	21.06	0-1	0
	16QAM	1	0	21.27	21.48	21.27	0-1	0
		1	3	21.43	21.68	21.48	0-1	0
		1	5	21.37	21.43	21.35	0-1	0
		3	0	21.05	21.15	21.09	0-2	0
		3	1	21.11	21.26	21.06	0-2	0
		3	3	21.00	21.31	21.08	0-2	0
		6	0	21.12	21.38	21.18	0-2	0
	64QAM	1	0	21.20	21.45	21.28	0-2	0
		1	3	21.25	21.47	21.41	0-2	0
		1	5	21.24	21.57	21.30	0-2	0
		3	0	21.17	21.20	21.19	0-3	0
		3	1	21.13	21.34	21.16	0-3	0
		3	3	21.16	21.36	21.22	0-3	0
		6	0	20.92	21.13	21.16	0-3	0
	256QAM	1	0	19.12	19.21	19.18	0-5	2
		1	3	19.10	19.33	19.01	0-5	2
		1	5	19.14	19.27	19.26	0-5	2
		3	0	19.17	19.28	19.12	0-5	2
		3	1	19.03	19.23	19.10	0-5	2
		3	3	18.99	19.15	19.20	0-5	2
		6	0	18.99	19.02	19.03	0-5	2

LTE Band 25 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26055 Ch. 1851.5 MHz	26365 Ch. 1882.5 MHz	26675 Ch. 1913.5 MHz		
3 MHz	QPSK	1	0	20.98	21.15	21.04	0	0
		1	7	20.98	21.19	21.05	0	0
		1	14	21.05	21.19	21.14	0	0
		8	0	21.13	21.31	21.15	0-1	0
		8	3	21.08	21.32	21.25	0-1	0
		8	7	21.13	21.31	21.17	0-1	0
		15	0	21.10	21.32	21.25	0-1	0
	16QAM	1	0	21.28	21.52	21.43	0-1	0
		1	7	21.18	21.19	21.63	0-1	0
		1	14	21.32	21.66	21.44	0-1	0
		8	0	21.18	21.31	21.14	0-2	0
		8	3	21.22	21.39	21.30	0-2	0
		8	7	21.20	21.41	21.21	0-2	0
		15	0	21.20	21.35	21.27	0-2	0
	64QAM	1	0	21.16	21.45	21.31	0-2	0
		1	7	21.15	21.43	21.32	0-2	0
		1	14	21.38	21.59	21.56	0-2	0
		8	0	21.19	21.37	21.13	0-3	0
		8	3	21.23	21.46	21.17	0-3	0
		8	7	21.22	21.37	21.13	0-3	0
		15	0	21.23	21.37	21.22	0-3	0
	256QAM	1	0	19.21	19.12	19.14	0-5	2
		1	7	19.08	19.31	19.20	0-5	2
		1	14	19.41	19.43	19.30	0-5	2
		8	0	19.11	19.27	19.09	0-5	2
		8	3	18.93	19.26	19.16	0-5	2
		8	7	19.10	19.40	19.13	0-5	2
		15	0	18.96	19.26	19.07	0-5	2

LTE Band 25 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26065 Ch. 1852.5 MHz	26365 Ch. 1882.5 MHz	26665 Ch. 1912.5 MHz		
5 MHz	QPSK	1	0	21.00	21.20	21.02	0	0
		1	12	21.24	21.22	21.11	0	0
		1	24	21.03	21.23	21.12	0	0
		12	0	21.00	21.29	20.73	0-1	0
		12	6	21.16	21.35	21.15	0-1	0
		12	11	21.14	21.38	21.24	0-1	0
		25	0	21.13	21.36	21.11	0-1	0
	16QAM	1	0	21.32	21.35	21.36	0-1	0
		1	12	20.94	21.28	21.48	0-1	0
		1	24	21.21	21.69	21.44	0-1	0
		12	0	21.11	21.31	21.11	0-2	0
		12	6	21.23	21.39	21.32	0-2	0
		12	11	21.19	21.44	21.25	0-2	0
		25	0	21.21	21.41	21.13	0-2	0
	64QAM	1	0	21.29	21.40	21.21	0-2	0
		1	12	21.25	21.46	21.40	0-2	0
		1	24	21.21	21.45	21.32	0-2	0
		12	0	21.15	21.37	20.98	0-3	0
		12	6	21.17	21.32	21.20	0-3	0
		12	11	21.16	21.34	21.24	0-3	0
		25	0	21.05	21.31	21.09	0-3	0
	256QAM	1	0	19.31	19.18	19.17	0-5	2
		1	12	19.18	19.30	19.11	0-5	2
		1	24	19.15	19.34	19.28	0-5	2
		12	0	19.05	19.28	19.08	0-5	2
		12	6	19.02	19.20	19.19	0-5	2
		12	11	18.99	19.33	19.13	0-5	2
		25	0	18.96	19.19	19.08	0-5	2

LTE Band 25 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26090 Ch. 1855 MHz	26365 Ch. 1882.5 MHz	26640 Ch. 1910 MHz		
10 MHz	QPSK	1	0	20.88	20.86	21.17	0	0
		1	24	20.87	21.28	21.02	0	0
		1	49	20.68	21.04	21.09	0	0
		25	0	21.02	21.18	21.09	0-1	0
		25	12	21.11	21.31	21.21	0-1	0
		25	24	21.04	21.24	21.16	0-1	0
		50	0	21.05	21.15	21.05	0-1	0
	16QAM	1	0	21.22	21.42	21.52	0-1	0
		1	24	21.18	21.57	21.31	0-1	0
		1	49	21.06	21.24	21.47	0-1	0
		25	0	21.05	21.16	21.14	0-2	0
		25	12	21.18	21.44	21.24	0-2	0
		25	24	21.14	21.30	21.25	0-2	0
		50	0	21.08	21.20	21.10	0-2	0
	64QAM	1	0	21.02	21.12	21.29	0-2	0
		1	24	21.12	21.53	21.21	0-2	0
		1	49	21.18	21.34	21.33	0-2	0
		25	0	21.08	21.19	21.19	0-3	0
		25	12	21.24	21.42	21.29	0-3	0
		25	24	21.11	21.29	21.24	0-3	0
		50	0	21.12	21.28	21.12	0-3	0
	256QAM	1	0	19.15	19.24	19.12	0-5	2
		1	24	19.05	19.30	19.21	0-5	2
		1	49	19.04	19.04	18.88	0-5	2
		25	0	18.90	19.10	19.03	0-5	2
		25	12	19.07	19.35	19.15	0-5	2
		25	24	19.04	19.15	19.09	0-5	2
		50	0	18.85	19.15	19.00	0-5	2

LTE Band 25 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26115 Ch. 1857.5 MHz	26365 Ch. 1882.5 MHz	26615 Ch. 1907.5 MHz		
15 MHz	QPSK	1	0	20.72	21.14	21.04	0	0
		1	36	20.88	21.13	21.02	0	0
		1	74	20.69	21.08	20.97	0	0
		36	0	20.92	21.13	20.10	0-1	0
		36	18	20.98	21.29	20.37	0-1	0
		36	39	21.07	21.25	20.84	0-1	0
		75	0	20.95	21.12	20.33	0-1	0
	16QAM	1	0	21.14	21.44	21.29	0-1	0
		1	36	21.23	21.55	21.31	0-1	0
		1	74	21.21	21.49	21.37	0-1	0
		36	0	20.89	21.10	21.04	0-2	0
		36	18	21.04	21.28	21.09	0-2	0
		36	39	20.98	21.23	21.18	0-2	0
		75	0	20.99	21.20	20.99	0-2	0
	64QAM	1	0	20.94	21.42	21.21	0-2	0
		1	36	21.20	21.45	21.41	0-2	0
		1	74	21.19	21.49	21.36	0-2	0
		36	0	20.88	21.09	21.05	0-3	0
		36	18	21.14	21.30	21.14	0-3	0
		36	39	21.07	21.28	21.19	0-3	0
		75	0	21.06	21.14	21.06	0-3	0
	256QAM	1	0	19.12	19.14	19.21	0-5	2
		1	36	19.32	19.28	19.12	0-5	2
		1	74	19.34	19.28	19.00	0-5	2
		36	0	18.86	19.10	18.96	0-5	2
		36	18	18.95	19.30	19.01	0-5	2
		36	39	18.97	19.20	19.06	0-5	2
		75	0	18.95	19.07	18.99	0-5	2

LTE Band 25 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26140 Ch. 1860 MHz	26365 Ch. 1882.5 MHz	26590 Ch. 1905 MHz		
20 MHz	QPSK	1	0	20.92	21.02	20.98	0	0
		1	49	20.86	21.08	21.03	0	0
		1	99	21.02	21.17	20.94	0	0
		50	0	20.98	21.24	21.11	0-1	0
		50	25	20.97	21.23	21.05	0-1	0
		50	49	21.03	21.13	21.13	0-1	0
		100	0	20.93	21.14	21.05	0-1	0
	16QAM	1	0	21.35	21.37	21.41	0-1	0
		1	49	21.29	21.59	21.39	0-1	0
		1	99	21.35	21.62	21.32	0-1	0
		50	0	21.01	21.19	21.15	0-2	0
		50	25	21.06	21.14	21.16	0-2	0
		50	49	21.10	21.20	21.15	0-2	0
		100	0	20.98	21.13	21.01	0-2	0
	64QAM	1	0	21.29	21.30	21.22	0-2	0
		1	49	21.18	21.52	21.36	0-2	0
		1	99	21.32	21.50	21.30	0-2	0
		50	0	21.10	21.25	21.04	0-3	0
		50	25	21.03	21.24	21.13	0-3	0
		50	49	21.09	21.28	21.16	0-3	0
		100	0	20.89	21.08	21.13	0-3	0
	256QAM	1	0	19.11	19.23	19.24	0-5	2
		1	49	19.01	19.21	19.21	0-5	2
		1	99	19.08	19.12	18.87	0-5	2
		50	0	18.81	18.98	18.81	0-5	2
		50	25	18.92	19.14	19.00	0-5	2
		50	49	18.99	19.04	19.04	0-5	2
		100	0	18.93	18.97	18.98	0-5	2

LTE Band 30 Conducted Power]

LTE Band 30_ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				27685Ch. 2307.5 MHz	27710Ch. 2310 MHz	27735Ch. 2312.5 MHz		
5 MHz	QPSK	1	0	20.93	21.02	21.06	0	0
		1	12	21.11	21.04	21.25	0	0
		1	24	21.02	21.03	20.92	0	0
		12	0	21.16	21.10	21.10	0-1	0
		12	6	21.12	21.09	21.12	0-1	0
		12	11	21.08	21.00	21.03	0-1	0
		25	0	21.12	20.94	21.03	0-1	0
	16QAM	1	0	21.58	21.40	21.48	0-1	0
		1	12	21.32	21.46	21.32	0-1	0
		1	24	21.41	21.34	21.30	0-1	0
		12	0	21.11	21.17	21.13	0-2	0
		12	6	21.09	21.12	21.12	0-2	0
		12	11	20.98	21.03	21.13	0-2	0
		25	0	21.10	21.05	21.03	0-2	0
	64QAM	1	0	21.36	21.29	21.22	0-2	0
		1	12	21.28	21.24	21.18	0-2	0
		1	24	21.06	21.11	21.10	0-2	0
		12	0	20.15	20.11	20.08	0-3	0
		12	6	20.19	20.05	20.16	0-3	0
		12	11	20.09	20.06	20.08	0-3	0
		25	0	20.11	20.05	20.05	0-3	0
	256QAM	1	0	18.14	18.25	18.01	0-5	2
		1	12	18.09	18.18	17.73	0-5	2
		1	24	18.01	18.04	17.96	0-5	2
		12	0	18.02	17.99	17.90	0-5	2
		12	6	18.01	18.02	18.00	0-5	2
		12	11	17.98	18.00	17.93	0-5	2
		25	0	17.98	17.93	18.01	0-5	2

LTE Band 30 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				27710 Ch. 2310 MHz		
10 MHz	QPSK	1	0	21.11	0	0
		1	24	21.02	0	0
		1	49	20.96	0	0
		25	0	21.08	0-1	0
		25	12	21.05	0-1	0
		25	24	20.94	0-1	0
		50	0	20.96	0-1	0
	16QAM	1	0	21.41	0-1	0
		1	24	21.40	0-1	0
		1	49	21.09	0-1	0
		25	0	21.10	0-2	0
		25	12	21.08	0-2	0
		25	24	20.88	0-2	0
		50	0	21.00	0-2	0
	64QAM	1	0	21.44	0-2	0
		1	24	21.19	0-2	0
		1	49	21.13	0-2	0
		25	0	20.11	0-3	0
		25	12	20.08	0-3	0
		25	24	19.99	0-3	0
		50	0	20.02	0-3	0
	256QAM	1	0	17.97	0-5	2
		1	24	18.06	0-5	2
		1	49	17.64	0-5	2
		25	0	17.99	0-5	2
		25	12	17.95	0-5	2
		25	24	17.82	0-5	2
		50	0	17.86	0-5	2

[LTE Band 66 Conducted Power]

LTE Band 66 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131979Ch. 1710.7 MHz	132322 Ch. 1745 MHz	132665 Ch. 1779.3 MHz		
1.4 MHz	QPSK	1	0	21.22	21.37	21.08	0	0
		1	3	21.34	21.42	21.06	0	0
		1	5	21.19	21.33	21.08	0	0
		3	0	21.26	21.36	21.03	0	0
		3	1	21.25	21.42	21.10	0	0
		3	3	21.24	21.35	20.99	0	0
		6	0	21.41	21.48	21.17	0-1	0
	16QAM	1	0	21.65	21.71	21.46	0-1	0
		1	3	21.74	21.82	21.47	0-1	0
		1	5	21.54	21.75	21.42	0-1	0
		3	0	21.46	21.55	21.25	0-1	0
		3	1	21.33	21.60	21.24	0-1	0
		3	3	21.30	21.53	21.14	0-1	0
		6	0	21.50	20.82	21.27	0-2	0
	64QAM	1	0	21.73	21.40	21.37	0-2	0
		1	3	21.56	21.52	21.45	0-2	0
		1	5	21.72	21.51	21.27	0-2	0
		3	0	21.51	21.25	21.27	0-2	0
		3	1	21.50	20.68	21.15	0-2	0
		3	3	21.44	21.07	21.22	0-2	0
		6	0	21.34	21.28	21.05	0-3	0
	256QAM	1	0	19.31	19.12	19.84	0-5	2
		1	3	19.45	19.75	18.91	0-5	2
		1	5	19.34	19.48	19.12	0-5	2
		3	0	19.42	19.51	19.28	0-5	2
		3	1	19.37	19.37	19.18	0-5	2
		3	3	19.34	19.39	19.13	0-5	2
		6	0	19.21	19.41	19.04	0-5	2

LTE Band 66 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131987 Ch. 1711.5 MHz	132322 Ch. 1745 MHz	132657 Ch. 1778.5 MHz		
3 MHz	QPSK	1	0	21.31	21.39	21.26	0	0
		1	7	21.49	21.47	21.12	0	0
		1	14	21.36	21.23	21.08	0	0
		8	0	21.49	21.52	21.21	0-1	0
		8	3	21.49	21.56	21.35	0-1	0
		8	7	21.40	21.53	21.19	0-1	0
		15	0	21.48	21.45	21.21	0-1	0
	16QAM	1	0	21.68	21.89	21.53	0-1	0
		1	7	21.43	21.94	21.30	0-1	0
		1	14	21.77	21.68	21.24	0-1	0
		8	0	21.59	21.61	21.34	0-2	0
		8	3	21.49	21.52	21.37	0-2	0
		8	7	21.50	21.59	21.29	0-2	0
		15	0	21.52	21.46	21.19	0-2	0
	64QAM	1	0	21.70	21.61	21.48	0-2	0
		1	7	21.66	21.65	21.36	0-2	0
		1	14	21.57	21.73	21.33	0-2	0
		8	0	21.57	21.52	21.31	0-3	0
		8	3	21.51	21.52	21.36	0-3	0
		8	7	21.51	21.56	21.29	0-3	0
		15	0	21.57	21.50	21.35	0-3	0
	256QAM	1	0	19.24	19.29	19.24	0-5	2
		1	7	19.40	19.53	19.19	0-5	2
		1	14	19.32	19.60	19.33	0-5	2
		8	0	19.40	19.37	19.22	0-5	2
		8	3	19.36	19.36	19.15	0-5	2
		8	7	19.33	19.43	19.10	0-5	2
		15	0	19.37	19.38	19.18	0-5	2

LTE Band 66 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131997 Ch. 1712.5 MHz	132322 Ch. 1745 MHz	132647 Ch. 1777.5 MHz		
5 MHz	QPSK	1	0	21.24	21.35	21.07	0	0
		1	12	21.38	21.42	21.54	0	0
		1	24	21.26	21.33	21.05	0	0
		12	0	21.55	21.46	21.29	0-1	0
		12	6	21.52	21.44	21.27	0-1	0
		12	11	21.44	21.40	21.20	0-1	0
		25	0	21.41	21.50	21.25	0-1	0
	16QAM	1	0	21.50	21.47	21.50	0-1	0
		1	12	21.68	21.94	21.13	0-1	0
		1	24	21.76	21.69	21.39	0-1	0
		12	0	21.46	21.60	21.19	0-2	0
		12	6	21.54	21.53	21.20	0-2	0
		12	11	21.52	21.49	21.33	0-2	0
		25	0	21.47	21.43	21.19	0-2	0
	64QAM	1	0	21.42	21.57	21.36	0-2	0
		1	12	21.53	21.67	21.29	0-2	0
		1	24	21.45	21.59	21.37	0-2	0
		12	0	21.56	21.53	21.30	0-3	0
		12	6	21.54	21.57	21.25	0-3	0
		12	11	21.48	21.62	21.26	0-3	0
		25	0	21.53	21.51	21.26	0-3	0
	256QAM	1	0	19.12	19.42	19.63	0-5	2
		1	12	19.36	19.58	19.32	0-5	2
		1	24	19.48	19.54	19.23	0-5	2
		12	0	19.47	19.43	19.24	0-5	2
		12	6	19.41	19.40	19.18	0-5	2
		12	11	19.43	19.36	19.18	0-5	2
		25	0	19.36	19.38	19.23	0-5	2

LTE Band 66 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132022 Ch. 1715 MHz	132322 Ch. 1745 MHz	132622 Ch. 1775 MHz		
10 MHz	QPSK	1	0	20.99	21.03	20.91	0	0
		1	24	21.33	21.36	21.25	0	0
		1	49	21.32	21.13	20.88	0	0
		25	0	21.36	21.38	21.18	0-1	0
		25	12	21.48	21.52	21.18	0-1	0
		25	24	21.38	21.36	21.22	0-1	0
		50	0	21.43	21.41	21.15	0-1	0
	16QAM	1	0	21.34	21.57	21.17	0-1	0
		1	24	21.76	21.75	21.55	0-1	0
		1	49	21.52	21.61	21.36	0-1	0
		25	0	21.26	21.50	21.28	0-2	0
		25	12	21.51	21.52	21.39	0-2	0
		25	24	21.56	21.44	21.30	0-2	0
		50	0	21.45	21.46	21.25	0-2	0
	64QAM	1	0	21.18	21.37	21.11	0-2	0
		1	24	21.60	21.70	21.37	0-2	0
		1	49	21.39	21.46	21.26	0-2	0
		25	0	21.42	21.42	21.29	0-3	0
		25	12	21.59	21.54	21.32	0-3	0
		25	24	21.48	21.46	21.22	0-3	0
		50	0	21.45	21.39	21.26	0-3	0
	256QAM	1	0	19.32	19.45	19.42	0-5	2
		1	24	19.40	19.36	19.30	0-5	2
		1	49	19.15	19.28	19.01	0-5	2
		25	0	19.29	19.26	19.11	0-5	2
		25	12	19.48	19.39	19.21	0-5	2
		25	24	19.38	19.30	19.18	0-5	2
		50	0	19.39	19.33	19.15	0-5	2

LTE Band 66 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132047 Ch. 1717.5 MHz	132322 Ch. 1745 MHz	132597 Ch. 1772.5 MHz		
15 MHz	QPSK	1	0	21.03	21.09	21.20	0	0
		1	36	21.31	21.33	21.09	0	0
		1	74	21.19	21.28	21.02	0	0
		36	0	21.30	21.34	21.15	0-1	0
		36	18	21.39	21.43	21.22	0-1	0
		36	39	21.35	21.27	21.13	0-1	0
		75	0	21.44	21.25	21.18	0-1	0
	16QAM	1	0	21.50	21.45	21.55	0-1	0
		1	36	21.59	21.55	21.41	0-1	0
		1	74	21.62	21.49	21.35	0-1	0
		36	0	21.27	21.29	21.28	0-2	0
		36	18	21.47	21.40	21.16	0-2	0
		36	39	21.44	21.29	21.16	0-2	0
		75	0	21.48	21.36	21.24	0-2	0
	64QAM	1	0	21.22	21.33	21.29	0-2	0
		1	36	21.57	21.49	21.44	0-2	0
		1	74	21.40	21.45	21.30	0-2	0
		36	0	21.40	21.47	21.25	0-3	0
		36	18	21.53	21.48	21.26	0-3	0
		36	39	21.39	21.35	21.22	0-3	0
		75	0	21.49	21.40	21.23	0-3	0
	256QAM	1	0	19.24	19.34	19.12	0-5	2
		1	36	19.29	19.41	19.24	0-5	2
		1	74	19.36	19.14	18.97	0-5	2
		36	0	19.23	19.32	19.12	0-5	2
		36	18	19.34	19.25	19.19	0-5	2
		36	39	19.34	19.19	19.11	0-5	2
		75	0	19.32	19.25	19.06	0-5	2

LTE Band 66 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132072 Ch. 1720 MHz	132322 Ch. 1745 MHz	132572 Ch. 1770 MHz		
20 MHz	QPSK	1	0	20.78	21.05	21.04	0	0
		1	49	21.36	21.26	20.97	0	0
		1	99	21.10	21.08	21.11	0	0
		50	0	21.27	21.22	21.21	0-1	0
		50	25	21.46	21.36	21.29	0-1	0
		50	49	21.34	21.29	21.08	0-1	0
		100	0	21.31	21.34	21.17	0-1	0
	16QAM	1	0	21.40	21.24	21.51	0-1	0
		1	49	21.53	21.74	21.49	0-1	0
		1	99	21.49	21.39	21.46	0-1	0
		50	0	21.29	21.40	21.18	0-2	0
		50	25	21.46	21.38	21.28	0-2	0
		50	49	21.44	21.27	21.10	0-2	0
		100	0	21.25	21.34	21.15	0-2	0
	64QAM	1	0	21.10	21.14	21.42	0-2	0
		1	49	21.47	21.51	21.31	0-2	0
		1	99	21.40	21.23	21.24	0-2	0
		50	0	21.31	21.37	21.25	0-3	0
		50	25	21.47	21.40	21.25	0-3	0
		50	49	21.37	21.41	21.09	0-3	0
		100	0	21.38	21.35	21.26	0-3	0
	256QAM	1	0	19.24	19.25	19.34	0-5	2
		1	49	19.39	19.31	19.25	0-5	2
		1	99	19.25	19.18	18.94	0-5	2
		50	0	19.15	19.16	19.11	0-5	2
		50	25	19.39	19.32	19.22	0-5	2
		50	49	19.39	19.26	18.97	0-5	2
		100	0	19.31	19.20	19.21	0-5	2

11.4.4 LTE Reduced Conducted Power (Receiver ON)

[LTE Band 2 _Sub #1 Ant. Conducted Power]

LTE Band 2 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18607 Ch. 1850.7 MHz	18900 Ch. 1880 MHz	19193 Ch. 1909.3 MHz		
1.4 MHz	QPSK	1	0	18.55	18.53	18.31	0	0
		1	3	18.64	18.55	18.40	0	0
		1	5	18.57	18.34	18.35	0	0
		3	0	18.86	18.45	18.23	0	0
		3	1	18.84	18.48	18.26	0	0
		3	3	18.92	18.53	18.30	0	0
		6	0	18.86	18.48	18.25	0-1	0
	16QAM	1	0	18.84	18.44	18.22	0-1	0
		1	3	18.84	18.53	18.29	0-1	0
		1	5	18.89	18.52	18.33	0-1	0
		3	0	18.82	18.37	18.27	0-1	0
		3	1	18.87	18.48	18.27	0-1	0
		3	3	18.89	18.41	18.29	0-1	0
		6	0	18.85	18.47	18.31	0-2	0
	64QAM	1	0	18.82	18.39	18.36	0-2	0
		1	3	18.81	18.41	18.35	0-2	0
		1	5	18.81	18.38	18.29	0-2	0
		3	0	18.77	18.43	18.30	0-2	0
		3	1	18.86	18.48	18.38	0-2	0
		3	3	18.86	18.53	18.33	0-2	0
		6	0	18.78	18.41	18.37	0-3	0
	256QAM	1	0	16.41	16.36	16.17	0-5	2
		1	3	16.48	16.34	16.20	0-5	2
		1	5	16.41	16.42	16.31	0-5	2
		3	0	16.49	16.43	16.14	0-5	2
		3	1	16.39	16.52	16.17	0-5	2
		3	3	16.50	16.46	16.28	0-5	2
		6	0	16.41	16.31	16.28	0-5	2

LTE Band 2 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18615 Ch. 1851.5 MHz	18900 Ch. 1880 MHz	19185 Ch. 1908.5 MHz		
3 MHz	QPSK	1	0	18.56	18.54	18.31	0	0
		1	7	18.64	18.57	18.39	0	0
		1	14	18.57	18.36	18.37	0	0
		8	0	18.87	18.48	18.25	0-1	0
		8	3	18.83	18.50	18.27	0-1	0
		8	7	18.92	18.53	18.31	0-1	0
		15	0	18.85	18.46	18.25	0-1	0
	16QAM	1	0	18.84	18.42	18.23	0-1	0
		1	7	18.87	18.53	18.31	0-1	0
		1	14	18.90	18.49	18.30	0-1	0
		8	0	18.83	18.38	18.28	0-2	0
		8	3	18.87	18.48	18.27	0-2	0
		8	7	18.91	18.41	18.28	0-2	0
		15	0	18.84	18.47	18.32	0-2	0
	64QAM	1	0	18.84	18.41	18.38	0-2	0
		1	7	18.79	18.41	18.36	0-2	0
		1	14	18.79	18.38	18.28	0-2	0
		8	0	18.77	18.46	18.29	0-3	0
		8	3	18.85	18.48	18.37	0-3	0
		8	7	18.87	18.53	18.34	0-3	0
		15	0	18.78	18.42	18.37	0-3	0
	256QAM	1	0	16.42	16.35	16.14	0-5	2
		1	7	16.50	16.35	16.18	0-5	2
		1	14	16.41	16.43	16.29	0-5	2
		8	0	16.47	16.42	16.15	0-5	2
		8	3	16.39	16.53	16.14	0-5	2
		8	7	16.48	16.46	16.28	0-5	2
		15	0	16.42	16.32	16.28	0-5	2

LTE Band 2 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18625 Ch. 1852.5 MHz	18900 Ch. 1880 MHz	19175 Ch. 1907.5 MHz		
5 MHz	QPSK	1	0	18.46	18.43	18.11	0	0
		1	12	18.59	18.41	18.25	0	0
		1	24	18.39	18.18	18.23	0	0
		12	0	18.67	18.31	18.13	0-1	0
		12	6	18.66	18.35	18.15	0-1	0
		12	11	18.81	18.43	18.17	0-1	0
		25	0	18.74	18.33	18.15	0-1	0
	16QAM	1	0	18.70	18.24	18.07	0-1	0
		1	12	18.69	18.42	18.19	0-1	0
		1	24	18.77	18.33	18.13	0-1	0
		12	0	18.76	18.21	18.13	0-2	0
		12	6	18.72	18.34	18.17	0-2	0
		12	11	18.81	18.24	18.11	0-2	0
		25	0	18.66	18.33	18.12	0-2	0
	64QAM	1	0	18.77	18.25	18.32	0-2	0
		1	12	18.67	18.34	18.23	0-2	0
		1	24	18.67	18.22	18.21	0-2	0
		12	0	18.66	18.40	18.16	0-3	0
		12	6	18.73	18.34	18.22	0-3	0
		12	11	18.74	18.37	18.20	0-3	0
		25	0	18.56	18.25	18.21	0-3	0
	256QAM	1	0	16.27	16.25	15.98	0-5	2
		1	12	16.37	16.23	16.11	0-5	2
		1	24	16.27	16.34	16.15	0-5	2
		12	0	16.29	16.29	16.01	0-5	2
		12	6	16.24	16.37	15.95	0-5	2
		12	11	16.35	16.32	16.21	0-5	2
		25	0	16.19	16.21	16.14	0-5	2

LTE Band 2 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18650 Ch. 1855 MHz	18900 Ch. 1880 MHz	19150 Ch. 1905 MHz		
10 MHz	QPSK	1	0	18.30	18.34	18.03	0	0
		1	24	18.43	18.31	18.09	0	0
		1	49	18.27	18.08	18.14	0	0
		25	0	18.59	18.22	17.99	0-1	0
		25	12	18.57	18.27	18.02	0-1	0
		25	24	18.66	18.32	18.07	0-1	0
		50	0	18.59	18.24	18.06	0-1	0
	16QAM	1	0	18.63	18.14	17.99	0-1	0
		1	24	18.60	18.33	18.05	0-1	0
		1	49	18.64	18.25	18.02	0-1	0
		25	0	18.60	18.10	17.99	0-2	0
		25	12	18.61	18.23	18.03	0-2	0
		25	24	18.69	18.16	18.02	0-2	0
		50	0	18.56	18.18	18.02	0-2	0
	64QAM	1	0	18.63	18.11	18.17	0-2	0
		1	24	18.55	18.19	18.12	0-2	0
		1	49	18.57	18.10	18.05	0-2	0
		25	0	18.57	18.24	18.08	0-3	0
		25	12	18.58	18.24	18.12	0-3	0
		25	24	18.62	18.25	18.07	0-3	0
		50	0	18.48	18.16	18.07	0-3	0
	256QAM	1	0	16.14	16.09	15.88	0-5	2
		1	24	16.21	16.10	15.96	0-5	2
		1	49	16.19	16.19	16.08	0-5	2
		25	0	16.20	16.20	15.93	0-5	2
		25	12	16.11	16.22	15.87	0-5	2
		25	24	16.25	16.20	16.05	0-5	2
		50	0	16.12	16.05	16.06	0-5	2

LTE Band 2 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18675 Ch. 1857.5 MHz	18900 Ch. 1880 MHz	19125 Ch. 1902.5 MHz		
15 MHz	QPSK	1	0	18.75	18.79	18.48	0	0
		1	36	18.88	18.76	18.54	0	0
		1	74	18.72	18.53	18.59	0	0
		36	0	19.04	18.67	18.44	0-1	0
		36	18	19.02	18.72	18.47	0-1	0
		36	39	19.11	18.77	18.52	0-1	0
		75	0	19.04	18.69	18.51	0-1	0
	16QAM	1	0	19.08	18.59	18.44	0-1	0
		1	36	19.05	18.78	18.50	0-1	0
		1	74	19.09	18.70	18.47	0-1	0
		36	0	19.05	18.55	18.44	0-2	0
		36	18	19.06	18.68	18.48	0-2	0
		36	39	19.14	18.61	18.47	0-2	0
		75	0	19.01	18.63	18.47	0-2	0
	64QAM	1	0	19.08	18.56	18.62	0-2	0
		1	36	19.00	18.64	18.57	0-2	0
		1	74	19.02	18.55	18.50	0-2	0
		36	0	19.02	18.69	18.53	0-3	0
		36	18	19.03	18.69	18.57	0-3	0
		36	39	19.07	18.70	18.52	0-3	0
		75	0	18.93	18.61	18.52	0-3	0
	256QAM	1	0	16.59	16.54	16.33	0-5	2
		1	36	16.66	16.55	16.41	0-5	2
		1	74	16.64	16.64	16.53	0-5	2
		36	0	16.65	16.65	16.38	0-5	2
		36	18	16.56	16.67	16.32	0-5	2
		36	39	16.70	16.65	16.50	0-5	2
		75	0	16.57	16.50	16.51	0-5	2

LTE Band 2 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18700 Ch. 1860 MHz	18900 Ch. 1880 MHz	19100 Ch. 1900 MHz		
20 MHz	QPSK	1	0	18.64	18.63	18.40	0	0
		1	49	18.72	18.64	18.47	0	0
		1	99	18.65	18.43	18.45	0	0
		50	0	18.94	18.55	18.32	0-1	0
		50	25	18.91	18.57	18.34	0-1	0
		50	49	19.01	18.63	18.39	0-1	0
		100	0	18.93	18.56	18.35	0-1	0
	16QAM	1	0	18.92	18.52	18.31	0-1	0
		1	49	18.94	18.62	18.38	0-1	0
		1	99	18.97	18.59	18.40	0-1	0
		50	0	18.91	18.47	18.37	0-2	0
		50	25	18.97	18.56	18.34	0-2	0
		50	49	18.99	18.50	18.37	0-2	0
		100	0	18.93	18.56	18.40	0-2	0
	64QAM	1	0	18.92	18.49	18.46	0-2	0
		1	49	18.88	18.50	18.44	0-2	0
		1	99	18.88	18.47	18.36	0-2	0
		50	0	18.87	18.53	18.38	0-3	0
		50	25	18.95	18.56	18.47	0-3	0
		50	49	18.94	18.61	18.41	0-3	0
		100	0	18.85	18.50	18.45	0-3	0
	256QAM	1	0	16.50	16.45	16.24	0-5	2
		1	49	16.58	16.44	16.27	0-5	2
		1	99	16.48	16.52	16.39	0-5	2
		50	0	16.57	16.50	16.22	0-5	2
		50	25	16.47	16.60	16.24	0-5	2
		50	49	16.58	16.55	16.36	0-5	2
		100	0	16.49	16.40	16.35	0-5	2

[LTE Band 4 _Sub #1 Ant. Conducted Power]

LTE Band 4 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19957 Ch. 1710.7 MHz	20175 Ch. 1732.5 MHz	20393 Ch. 1754.3 MHz		
1.4 MHz	QPSK	1	0	18.38	18.58	18.73	0	0
		1	3	18.72	18.74	18.94	0	0
		1	5	18.42	18.59	18.87	0	0
		3	0	19.06	18.74	19.08	0-1	0
		3	1	19.28	18.81	19.32	0-1	0
		3	3	19.16	18.92	19.27	0-1	0
		6	0	19.16	18.91	19.33	0-1	0
	16QAM	1	0	18.95	18.58	19.11	0-1	0
		1	3	18.94	18.60	19.00	0-1	0
		1	5	18.87	18.52	19.09	0-1	0
		3	0	18.79	18.40	18.74	0-2	0
		3	1	18.88	18.58	18.96	0-2	0
		3	3	19.01	18.52	18.91	0-2	0
		6	0	18.88	18.37	18.69	0-2	0
	64QAM	1	0	18.94	18.41	18.68	0-2	0
		1	3	18.73	18.36	18.80	0-2	0
		1	5	18.82	18.33	18.69	0-2	0
		3	0	18.49	18.19	18.55	0-3	0
		3	1	18.70	18.42	18.83	0-3	0
		3	3	18.87	18.51	18.78	0-3	0
		6	0	18.62	18.26	18.74	0-3	0
	256QAM	1	0	16.14	16.02	16.38	0-5	2
		1	3	16.12	16.23	16.53	0-5	2
		1	5	16.25	16.35	16.52	0-5	2
		3	0	16.49	16.17	16.60	0-5	2
		3	1	16.66	16.38	16.87	0-5	2
		3	3	16.86	16.46	16.78	0-5	2
		6	0	16.53	16.38	16.48	0-5	2

LTE Band 4 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19965 Ch. 1711.5 MHz	20175 Ch. 1732.5 MHz	20385 Ch. 1753.5 MHz		
3 MHz	QPSK	1	0	18.62	18.78	18.96	0	0
		1	7	18.98	19.05	19.17	0	0
		1	14	18.87	19.00	19.23	0	0
		8	0	19.41	19.01	19.28	0-1	0
		8	3	19.49	19.11	19.23	0-1	0
		8	7	19.35	19.22	19.17	0-1	0
		15	0	19.37	19.16	19.26	0-1	0
	16QAM	1	0	18.86	18.43	19.00	0-1	0
		1	7	18.84	18.49	19.05	0-1	0
		1	14	18.83	18.55	18.91	0-1	0
		8	0	18.70	18.26	18.67	0-2	0
		8	3	18.90	18.50	18.88	0-2	0
		8	7	18.94	18.57	18.85	0-2	0
		15	0	18.74	18.44	18.72	0-2	0
	64QAM	1	0	18.79	18.26	18.64	0-2	0
		1	7	18.63	18.31	18.71	0-2	0
		1	14	18.74	18.38	18.70	0-2	0
		8	0	18.45	18.10	18.51	0-3	0
		8	3	18.62	18.31	18.77	0-3	0
		8	7	18.66	18.39	18.60	0-3	0
		15	0	18.53	18.22	18.78	0-3	0
	256QAM	1	0	16.09	15.97	16.42	0-5	2
		1	7	16.20	16.18	16.52	0-5	2
		1	14	16.12	16.20	16.39	0-5	2
		8	0	16.59	16.15	16.59	0-5	2
		8	3	16.72	16.38	16.64	0-5	2
		8	7	16.74	16.20	16.65	0-5	2
		15	0	16.33	16.28	16.45	0-5	2

LTE Band 4 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19975 Ch. 1712.5 MHz	20175 Ch. 1732.5 MHz	20375 Ch. 1752.5 MHz		
5 MHz	QPSK	1	0	18.55	18.78	18.91	0	0
		1	12	18.72	19.01	19.00	0	0
		1	24	18.43	18.87	19.08	0	0
		12	0	19.36	19.03	19.02	0-1	0
		12	6	19.12	19.25	19.13	0-1	0
		12	11	19.19	19.25	19.33	0-1	0
		25	0	19.57	19.03	19.65	0-1	0
	16QAM	1	0	18.96	18.70	19.53	0-1	0
		1	12	18.94	18.79	19.20	0-1	0
		1	24	19.11	18.73	19.55	0-1	0
		12	0	18.86	18.48	18.80	0-2	0
		12	6	19.05	18.52	19.19	0-2	0
		12	11	19.31	18.73	19.41	0-2	0
		25	0	18.83	18.79	18.88	0-2	0
	64QAM	1	0	19.12	18.84	19.02	0-2	0
		1	12	18.88	18.75	18.51	0-2	0
		1	24	19.12	18.52	18.91	0-2	0
		12	0	19.05	18.33	19.14	0-3	0
		12	6	18.82	18.42	19.11	0-3	0
		12	11	18.46	18.19	19.02	0-3	0
		25	0	18.85	18.52	19.19	0-3	0
	256QAM	1	0	16.42	16.16	16.65	0-5	2
		1	12	16.33	16.66	16.71	0-5	2
		1	24	16.33	16.69	16.80	0-5	2
		12	0	16.88	16.39	16.64	0-5	2
		12	6	17.04	16.37	17.37	0-5	2
		12	11	16.96	16.80	17.05	0-5	2
		25	0	16.35	16.39	16.56	0-5	2

LTE Band 4 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20000 Ch. 1715 MHz	20175 Ch. 1732.5 MHz	20350 Ch. 1750 MHz		
10 MHz	QPSK	1	0	18.63	18.55	19.23	0	0
		1	24	18.98	19.02	19.13	0	0
		1	49	18.59	19.13	19.25	0	0
		25	0	19.29	19.14	19.30	0-1	0
		25	12	19.35	19.31	19.45	0-1	0
		25	24	19.46	19.16	19.36	0-1	0
		50	0	19.57	19.08	19.64	0-1	0
	16QAM	1	0	18.88	18.50	19.48	0-1	0
		1	24	18.97	18.72	19.13	0-1	0
		1	49	19.11	18.66	19.48	0-1	0
		25	0	18.92	18.45	18.80	0-2	0
		25	12	19.10	18.62	19.19	0-2	0
		25	24	19.20	18.70	19.30	0-2	0
		50	0	18.88	18.60	18.66	0-2	0
	64QAM	1	0	19.34	18.69	18.95	0-2	0
		1	24	18.82	18.74	18.65	0-2	0
		1	49	19.02	18.53	18.76	0-2	0
		25	0	18.95	18.29	19.08	0-3	0
		25	12	18.75	18.51	19.27	0-3	0
		25	24	18.67	18.41	18.99	0-3	0
		50	0	19.08	18.37	19.06	0-3	0
	256QAM	1	0	16.32	16.26	16.62	0-5	2
		1	24	16.43	16.51	16.58	0-5	2
		1	49	16.21	16.47	16.76	0-5	2
		25	0	16.63	16.21	16.71	0-5	2
		25	12	16.93	16.44	17.17	0-5	2
		25	24	16.76	16.84	16.91	0-5	2
		50	0	16.35	16.23	16.62	0-5	2

LTE Band 4 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20025 Ch. 1717.5 MHz	20175 Ch. 1732.5 MHz	20325 Ch. 1747.5 MHz		
15 MHz	QPSK	1	0	18.61	18.43	18.98	0	0
		1	36	18.91	18.97	19.12	0	0
		1	74	18.56	18.80	19.01	0	0
		36	0	19.07	18.93	19.32	0-1	0
		36	18	19.29	19.01	19.39	0-1	0
		36	39	19.29	18.96	19.25	0-1	0
		75	0	19.29	19.02	19.55	0-1	0
	16QAM	1	0	19.04	18.69	19.40	0-1	0
		1	36	18.94	18.94	19.29	0-1	0
		1	74	19.08	18.64	19.38	0-1	0
		36	0	19.00	18.55	18.89	0-2	0
		36	18	19.07	18.79	19.11	0-2	0
		36	39	19.23	18.81	19.23	0-2	0
		75	0	18.97	18.53	18.81	0-2	0
	64QAM	1	0	19.27	18.75	19.00	0-2	0
		1	36	18.98	18.69	18.90	0-2	0
		1	74	18.98	18.69	18.75	0-2	0
		36	0	18.93	18.33	19.00	0-3	0
		36	18	18.78	18.74	19.16	0-3	0
		36	39	18.90	18.65	19.06	0-3	0
		75	0	19.10	18.52	19.14	0-3	0
	256QAM	1	0	16.28	16.40	16.65	0-5	2
		1	36	16.48	16.52	16.83	0-5	2
		1	74	16.39	16.67	16.93	0-5	2
		36	0	16.76	16.46	16.77	0-5	2
		36	18	17.08	16.47	17.20	0-5	2
		36	39	17.01	16.76	17.14	0-5	2
		75	0	16.54	16.41	16.74	0-5	2

LTE Band 4 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20050 Ch. 170 MHz	20175 Ch. 1732.5 MHz	20300 Ch. 1745 MHz		
20 MHz	QPSK	1	0	18.43	18.52	18.72	0	0
		1	49	18.67	18.76	18.97	0	0
		1	99	18.53	18.70	18.94	0	0
		50	0	19.08	18.73	19.16	0-1	0
		50	25	19.24	18.94	19.33	0-1	0
		50	49	19.24	18.90	19.33	0-1	0
		100	0	19.18	18.95	19.37	0-1	0
	16QAM	1	0	19.08	18.68	19.18	0-1	0
		1	49	18.99	18.64	19.17	0-1	0
		1	99	19.02	18.66	19.16	0-1	0
		50	0	18.94	18.53	18.85	0-2	0
		50	25	19.07	18.66	19.04	0-2	0
		50	49	19.08	18.68	18.99	0-2	0
		100	0	18.94	18.55	18.83	0-2	0
	64QAM	1	0	18.99	18.50	18.87	0-2	0
		1	49	18.89	18.50	18.85	0-2	0
		1	99	18.97	18.48	18.80	0-2	0
		50	0	18.66	18.33	18.70	0-3	0
		50	25	18.87	18.54	18.93	0-3	0
		50	49	18.90	18.56	18.82	0-3	0
		100	0	18.79	18.43	18.90	0-3	0
	256QAM	1	0	16.22	16.18	16.53	0-5	2
		1	49	16.32	16.34	16.63	0-5	2
		1	99	16.34	16.41	16.65	0-5	2
		50	0	16.69	16.26	16.73	0-5	2
		50	25	16.83	16.49	16.89	0-5	2
		50	49	16.89	16.46	16.88	0-5	2
		100	0	16.60	16.43	16.61	0-5	2

[LTE Band 25 _Sub #1 Ant. Conducted Power]

LTE Band 25 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26047 Ch. 1850.7 MHz	26365 Ch. 1882.5 MHz	26683 Ch. 1914.3 MHz		
1.4 MHz	QPSK	1	0	18.53	18.38	18.34	0	0
		1	3	18.40	18.32	18.07	0	0
		1	5	18.51	18.36	18.20	0	0
		3	0	18.78	18.80	18.73	0-1	0
		3	1	18.85	18.76	18.61	0-1	0
		3	3	18.73	18.66	18.50	0-1	0
		6	0	18.59	18.62	18.68	0-1	0
	16QAM	1	0	18.81	18.58	18.65	0-1	0
		1	3	18.81	18.70	18.54	0-1	0
		1	5	18.65	18.73	18.61	0-1	0
		3	0	18.92	18.78	18.74	0-2	0
		3	1	18.94	18.55	18.72	0-2	0
		3	3	18.86	18.55	18.62	0-2	0
		6	0	18.84	18.64	18.61	0-2	0
	64QAM	1	0	18.93	18.55	18.64	0-2	0
		1	3	18.83	18.59	18.47	0-2	0
		1	5	18.83	18.64	18.62	0-2	0
		3	0	18.87	18.62	18.54	0-3	0
		3	1	18.74	18.51	18.59	0-3	0
		3	3	18.80	18.58	18.56	0-3	0
		6	0	18.98	18.50	18.58	0-3	0
	256QAM	1	0	16.31	16.25	16.03	0-5	2
		1	3	16.25	15.96	15.89	0-5	2
		1	5	16.17	16.29	15.93	0-5	2
		3	0	16.74	16.68	16.72	0-5	2
		3	1	16.75	16.57	16.57	0-5	2
		3	3	16.77	16.46	16.48	0-5	2
		6	0	16.92	16.72	16.49	0-5	2

LTE Band 25 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26055 Ch. 1851.5 MHz	26365 Ch. 1882.5 MHz	26675 Ch. 1913.5 MHz		
3 MHz	QPSK	1	0	18.77	18.56	18.54	0	0
		1	7	18.65	18.49	18.30	0	0
		1	14	18.68	18.53	18.38	0	0
		8	0	18.93	19.01	18.96	0-1	0
		8	3	19.05	18.97	18.78	0-1	0
		8	7	18.89	18.84	18.69	0-1	0
		15	0	18.85	18.87	18.83	0-1	0
	16QAM	1	0	18.96	18.75	18.83	0-1	0
		1	7	18.94	18.85	18.68	0-1	0
		1	14	18.81	18.89	18.79	0-1	0
		8	0	19.15	18.91	18.90	0-2	0
		8	3	19.07	18.75	18.87	0-2	0
		8	7	19.09	18.70	18.82	0-2	0
		15	0	19.03	18.84	18.76	0-2	0
	64QAM	1	0	19.14	18.71	18.82	0-2	0
		1	7	19.05	18.72	18.72	0-2	0
		1	14	18.97	18.79	18.85	0-2	0
		8	0	19.11	18.86	18.76	0-3	0
		8	3	18.95	18.70	18.77	0-3	0
		8	7	19.02	18.71	18.72	0-3	0
		15	0	19.16	18.74	18.76	0-3	0
	256QAM	1	0	16.55	16.41	16.19	0-5	2
		1	7	16.45	16.22	16.14	0-5	2
		1	14	16.32	16.47	16.18	0-5	2
		8	0	17.00	16.81	16.86	0-5	2
		8	3	16.91	16.72	16.76	0-5	2
		8	7	16.90	16.64	16.66	0-5	2
		15	0	17.08	16.92	16.74	0-5	2

LTE Band 25 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26065 Ch. 1852.5 MHz	26365 Ch. 1882.5 MHz	26665 Ch. 1912.5 MHz		
5 MHz	QPSK	1	0	18.61	18.42	18.29	0	0
		1	12	18.49	18.45	18.21	0	0
		1	24	18.60	18.27	18.28	0	0
		12	0	18.95	18.74	18.67	0-1	0
		12	6	18.76	18.73	18.66	0-1	0
		12	11	18.73	18.67	18.58	0-1	0
		25	0	18.77	18.71	18.72	0-1	0
	16QAM	1	0	18.80	18.67	18.67	0-1	0
		1	12	18.81	18.63	18.48	0-1	0
		1	24	18.77	18.71	18.63	0-1	0
		12	0	18.92	18.68	18.66	0-2	0
		12	6	18.80	18.62	18.65	0-2	0
		12	11	18.85	18.66	18.67	0-2	0
		25	0	18.90	18.71	18.69	0-2	0
	64QAM	1	0	18.87	18.66	18.60	0-2	0
		1	12	18.94	18.67	18.56	0-2	0
		1	24	18.88	18.62	18.57	0-2	0
		12	0	19.03	18.75	18.72	0-3	0
		12	6	18.92	18.61	18.64	0-3	0
		12	11	19.00	18.59	18.66	0-3	0
		25	0	18.91	18.67	18.64	0-3	0
	256QAM	1	0	16.29	16.25	16.28	0-5	2
		1	12	16.33	16.18	16.38	0-5	2
		1	24	16.19	16.30	16.44	0-5	2
		12	0	16.90	16.67	16.57	0-5	2
		12	6	16.83	16.63	16.60	0-5	2
		12	11	16.79	16.62	16.53	0-5	2
		25	0	16.95	16.74	16.61	0-5	2

LTE Band 25 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26090 Ch. 1855 MHz	26365 Ch. 1882.5 MHz	26640 Ch. 1910 MHz		
10 MHz	QPSK	1	0	18.63	18.44	18.38	0	0
		1	24	18.47	18.41	18.19	0	0
		1	49	18.49	18.43	18.20	0	0
		25	0	18.85	18.82	18.79	0-1	0
		25	12	18.93	18.88	18.62	0-1	0
		25	24	18.74	18.76	18.58	0-1	0
		50	0	18.65	18.68	18.67	0-1	0
	16QAM	1	0	18.76	18.67	18.66	0-1	0
		1	24	18.78	18.75	18.50	0-1	0
		1	49	18.70	18.69	18.61	0-1	0
		25	0	18.97	18.83	18.71	0-2	0
		25	12	18.96	18.59	18.71	0-2	0
		25	24	18.92	18.50	18.66	0-2	0
		50	0	18.90	18.67	18.66	0-2	0
	64QAM	1	0	19.03	18.58	18.70	0-2	0
		1	24	18.94	18.64	18.53	0-2	0
		1	49	18.84	18.60	18.66	0-2	0
		25	0	18.95	18.68	18.61	0-3	0
		25	12	18.78	18.59	18.62	0-3	0
		25	24	18.90	18.60	18.61	0-3	0
		50	0	19.02	18.58	18.61	0-3	0
	256QAM	1	0	16.34	16.24	16.03	0-5	2
		1	24	16.28	16.06	16.02	0-5	2
		1	49	16.19	16.29	16.09	0-5	2
		25	0	16.82	16.62	16.75	0-5	2
		25	12	16.79	16.63	16.58	0-5	2
		25	24	16.80	16.52	16.58	0-5	2
		50	0	16.95	16.78	16.59	0-5	2

LTE Band 25 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26115 Ch. 1857.5 MHz	26365 Ch. 1882.5 MHz	26615 Ch. 1907.5 MHz		
15 MHz	QPSK	1	0	18.93	18.52	18.53	0	0
		1	36	18.67	18.56	18.45	0	0
		1	74	18.91	18.72	18.40	0	0
		36	0	19.07	19.22	19.15	0-1	0
		36	18	19.07	19.09	18.85	0-1	0
		36	39	19.12	18.90	18.68	0-1	0
		75	0	19.22	18.78	19.09	0-1	0
	16QAM	1	0	19.23	18.95	18.94	0-1	0
		1	36	19.10	18.87	18.75	0-1	0
		1	74	19.23	18.93	19.01	0-1	0
		36	0	19.19	18.82	19.08	0-2	0
		36	18	19.11	18.81	19.14	0-2	0
		36	39	19.10	19.03	18.94	0-2	0
		75	0	19.01	18.86	18.79	0-2	0
	64QAM	1	0	19.16	18.91	19.05	0-2	0
		1	36	19.30	18.88	18.78	0-2	0
		1	74	19.26	18.99	19.03	0-2	0
		36	0	19.27	18.92	18.91	0-3	0
		36	18	19.35	18.71	19.02	0-3	0
		36	39	19.34	18.76	19.07	0-3	0
		75	0	19.02	19.04	18.83	0-3	0
	256QAM	1	0	16.57	16.52	16.55	0-5	2
		1	36	16.41	16.60	16.26	0-5	2
		1	74	16.40	16.41	16.30	0-5	2
		36	0	17.03	16.98	16.92	0-5	2
		36	18	17.24	16.71	16.81	0-5	2
		36	39	17.14	16.96	16.66	0-5	2
		75	0	17.14	17.08	16.90	0-5	2

LTE Band 25_ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26140 Ch. 1860 MHz	26365 Ch. 1882.5 MHz	26590 Ch. 1905 MHz		
20 MHz	QPSK	1	0	18.47	18.77	18.46	0	0
		1	49	18.64	18.55	18.32	0	0
		1	99	18.71	18.57	18.39	0	0
		50	0	19.03	18.94	18.87	0-1	0
		50	25	18.95	18.90	18.76	0-1	0
		50	49	18.89	18.86	18.73	0-1	0
		100	0	18.93	18.82	18.80	0-1	0
	16QAM	1	0	18.92	18.81	18.84	0-1	0
		1	49	18.97	18.82	18.66	0-1	0
		1	99	18.91	18.86	18.74	0-1	0
		50	0	19.12	18.85	18.83	0-2	0
		50	25	18.99	18.76	18.81	0-2	0
		50	49	19.04	18.78	18.80	0-2	0
		100	0	19.05	18.83	18.79	0-2	0
	64QAM	1	0	19.04	18.80	18.77	0-2	0
		1	49	19.10	18.82	18.73	0-2	0
		1	99	19.01	18.82	18.77	0-2	0
		50	0	19.14	18.89	18.85	0-3	0
		50	25	19.02	18.76	18.75	0-3	0
		50	49	19.08	18.75	18.78	0-3	0
		100	0	19.06	18.79	18.75	0-3	0
	256QAM	1	0	16.49	16.40	16.25	0-5	2
		1	49	16.46	16.29	16.21	0-5	2
		1	99	16.35	16.38	16.16	0-5	2
		50	0	17.00	16.85	16.77	0-5	2
		50	25	16.97	16.74	16.73	0-5	2
		50	49	16.93	16.73	16.64	0-5	2
		100	0	17.06	16.82	16.75	0-5	2

[LTE Band 48 Conducted Power]

LTE Band 48 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55265 Ch. 3552.5 MHz	55748 Ch. 3600.8 MHz	56232 Ch. 3649.2 MHz	56715 Ch. 3697.5 MHz		
5 MHz	QPSK	1	0	19.79	19.98	19.91	19.64	0	0
		1	12	19.96	20.11	20.01	19.64	0	0
		1	24	19.87	20.09	19.98	19.64	0	0
		12	0	19.94	20.12	20.08	19.71	0-1	0
		12	6	20.02	20.21	20.16	19.77	0-1	0
		12	11	20.04	20.19	20.13	19.77	0-1	0
		25	0	19.97	20.15	20.11	19.73	0-1	0
	16QAM	1	0	19.93	20.05	20.02	19.61	0-1	0
		1	12	20.05	20.19	20.11	19.70	0-1	0
		1	24	20.05	20.17	20.05	19.72	0-1	0
		12	0	19.80	19.93	19.86	19.45	0-2	0
		12	6	19.89	20.03	19.98	19.56	0-2	0
		12	11	19.89	20.05	19.99	19.61	0-2	0
		25	0	19.89	20.09	20.03	19.62	0-2	0
	64QAM	1	0	19.67	19.47	19.50	19.13	0-2	0
		1	12	19.76	19.73	19.63	19.25	0-2	0
		1	24	19.75	19.66	19.52	19.24	0-2	0
		12	0	18.81	18.95	18.88	18.48	0-3	1
		12	6	18.91	19.08	18.98	18.62	0-3	1
		12	11	18.85	19.10	18.98	18.62	0-3	1
		25	0	18.85	19.04	18.99	18.59	0-3	1
	256QAM	1	0	16.59	16.70	16.80	16.36	0-5	2.5
		1	12	16.78	16.99	16.87	16.56	0-5	2.5
		1	24	16.72	16.94	16.79	16.49	0-5	2.5
		12	0	16.95	17.14	17.10	16.70	0-5	2.5
		12	6	17.07	17.26	17.17	16.77	0-5	2.5
		12	11	17.03	17.27	17.17	16.80	0-5	2.5
		25	0	16.94	17.16	17.02	16.67	0-5	2.5

LTE Band 48 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55290 Ch. 3555 MHz	55757 Ch. 3601.7 MHz	56223 Ch. 3648.3 MHz	56690 Ch. 3695 MHz		
10 MHz	QPSK	1	0	20.04	20.05	20.06	19.69	0	0
		1	24	19.89	20.13	19.98	19.65	0	0
		1	49	19.97	20.18	20.03	19.77	0	0
		25	0	19.86	19.98	20.00	19.64	0-1	0
		25	12	19.98	20.20	20.14	19.77	0-1	0
		25	24	19.94	20.16	20.01	19.72	0-1	0
		50	0	19.90	20.12	20.08	19.68	0-1	0
	16QAM	1	0	20.01	20.17	20.23	19.77	0-1	0
		1	24	19.94	20.16	20.11	19.72	0-1	0
		1	49	19.98	20.25	20.14	19.80	0-1	0
		25	0	19.75	19.94	19.95	19.51	0-2	0
		25	12	19.90	20.12	20.06	19.66	0-2	0
		25	24	19.86	20.11	19.91	19.66	0-2	0
		50	0	19.80	20.06	19.95	19.57	0-2	0
	64QAM	1	0	19.51	19.63	19.67	19.26	0-2	0
		1	24	19.46	19.67	19.61	19.27	0-2	0
		1	49	19.53	19.77	19.58	19.31	0-2	0
		25	0	18.78	18.90	18.93	18.47	0-3	1
		25	12	18.89	19.13	19.05	18.64	0-3	1
		25	24	18.86	19.11	18.95	18.65	0-3	1
		50	0	18.85	19.13	19.00	18.65	0-3	1
	256QAM	1	0	16.38	16.52	16.55	16.49	0-5	2.5
		1	24	16.74	16.97	16.89	16.50	0-5	2.5
		1	49	16.53	16.82	16.65	16.36	0-5	2.5
		25	0	16.83	16.95	17.01	16.55	0-5	2.5
		25	12	16.97	17.18	17.16	16.73	0-5	2.5
		25	24	16.93	17.15	17.00	16.69	0-5	2.5
		50	0	16.92	17.17	17.08	16.70	0-5	2.5

LTE Band 48 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55315Ch. 3557.5 MHz	55765 Ch. 3602.5 MHz	56215 Ch. 3647.5 MHz	56665 Ch. 3692.5 MHz		
15 MHz	QPSK	1	0	19.99	19.98	20.04	19.60	0	0
		1	36	19.82	20.04	19.94	19.58	0	0
		1	74	19.85	20.07	19.91	19.66	0	0
		36	0	19.84	20.03	20.03	19.71	0-1	0
		36	18	19.94	20.15	20.11	19.69	0-1	0
		36	39	19.84	20.09	19.94	19.61	0-1	0
		75	0	19.87	20.09	20.03	19.57	0-1	0
	16QAM	1	0	19.92	20.00	20.08	19.64	0-1	0
		1	36	19.85	20.03	20.05	19.63	0-1	0
		1	74	19.88	20.05	20.00	19.68	0-1	0
		36	0	19.70	19.89	19.84	19.43	0-2	0
		36	18	19.76	19.99	19.93	19.52	0-2	0
		36	39	19.71	19.94	19.79	19.46	0-2	0
		75	0	19.76	20.03	19.91	19.51	0-2	0
	64QAM	1	0	19.41	19.54	19.66	19.13	0-2	0
		1	36	19.45	19.63	19.57	19.16	0-2	0
		1	74	19.43	19.68	19.49	19.18	0-2	0
		36	0	18.78	18.91	18.88	18.49	0-3	1
		36	18	18.81	19.08	19.02	18.55	0-3	1
		36	39	18.75	19.00	18.85	18.48	0-3	1
		75	0	18.79	19.05	18.94	18.53	0-3	1
	256QAM	1	0	16.48	16.68	16.64	16.26	0-5	2.5
		1	36	16.65	16.89	16.82	16.38	0-5	2.5
		1	74	16.54	16.74	16.57	16.26	0-5	2.5
		36	0	16.78	17.00	16.96	16.56	0-5	2.5
		36	18	16.86	17.09	17.04	16.62	0-5	2.5
		36	39	16.80	17.05	16.89	16.53	0-5	2.5
		75	0	16.78	17.07	16.98	16.56	0-5	2.5

LTE Band 48 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55340Ch. 3560.0 MHz	55773 Ch. 3603.3 MHz	56207 Ch. 3646.7 MHz	56640 Ch. 3690.0 MHz		
20 MHz	QPSK	1	0	20.07	19.96	20.06	19.61	0	0
		1	49	19.83	19.95	19.97	19.57	0	0
		1	99	19.85	19.89	19.97	19.60	0	0
		50	0	19.84	19.95	19.97	19.54	0-1	0
		50	25	20.00	19.99	19.98	19.65	0-1	0
		50	49	19.89	19.95	19.94	19.56	0-1	0
		100	0	20.06	20.03	20.01	19.56	0-1	0
	16QAM	1	0	19.95	19.99	20.14	19.62	0-1	0
		1	49	19.88	19.98	20.00	19.58	0-1	0
		1	99	19.88	20.04	20.00	19.62	0-1	0
		50	0	19.76	19.91	19.88	19.47	0-2	0
		50	25	19.83	20.07	20.01	19.57	0-2	0
		50	49	19.76	19.94	19.85	19.52	0-2	0
		100	0	19.79	19.98	19.93	19.49	0-2	0
	64QAM	1	0	19.50	19.56	19.66	19.18	0-2	0
		1	49	19.41	19.63	19.60	19.14	0-2	0
		1	99	19.43	19.68	19.54	19.19	0-2	0
		50	0	18.78	18.98	18.95	18.51	0-3	1
		50	25	18.92	19.13	19.11	18.61	0-3	1
		50	49	18.85	18.99	18.91	18.52	0-3	1
		100	0	18.75	18.99	18.93	18.49	0-3	1
	256QAM	1	0	16.35	16.57	16.52	16.11	0-5	2.5
		1	49	16.65	16.84	16.81	16.33	0-5	2.5
		1	99	16.41	16.54	16.42	16.40	0-5	2.5
		50	0	16.81	16.99	17.00	16.55	0-5	2.5
		50	25	16.95	17.15	17.12	16.62	0-5	2.5
		50	49	16.86	17.05	16.95	16.56	0-5	2.5
		100	0	16.77	17.01	16.97	16.49	0-5	2.5

[LTE Band 66 _Sub #1 Ant. Conducted Power]

LTE Band 66 _ 1.4 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131979Ch. 1710.7 MHz	132322 Ch. 1745 MHz	132665 Ch. 1779.3 MHz		
1.4 MHz	QPSK	1	0	18.28	18.46	19.11	0	0
		1	3	18.22	18.58	18.90	0	0
		1	5	18.32	18.39	19.14	0	0
		3	0	18.76	18.81	18.65	0	0
		3	1	18.40	18.64	18.64	0	0
		3	3	18.25	18.61	18.33	0	0
		6	0	18.53	18.60	18.64	0-1	0
	16QAM	1	0	18.50	18.57	18.32	0-1	0
		1	3	18.52	18.54	18.42	0-1	0
		1	5	18.48	18.41	18.39	0-1	0
		3	0	18.55	18.74	18.89	0-1	0
		3	1	18.24	18.52	18.59	0-1	0
		3	3	18.48	18.63	18.70	0-1	0
		6	0	18.24	18.62	18.44	0-2	0
	64QAM	1	0	18.29	18.66	18.48	0-2	0
		1	3	18.22	18.52	18.64	0-2	0
		1	5	18.36	18.65	18.63	0-2	0
		3	0	18.81	18.72	18.72	0-2	0
		3	1	18.60	18.32	18.38	0-2	0
		3	3	18.42	18.59	18.59	0-2	0
		6	0	18.34	18.65	18.35	0-3	0
	256QAM	1	0	16.35	16.84	16.73	0-5	2
		1	3	16.36	16.69	16.84	0-5	2
		1	5	16.32	16.57	16.69	0-5	2
		3	0	16.67	16.93	16.68	0-5	2
		3	1	16.62	16.68	16.75	0-5	2
		3	3	16.57	16.62	16.58	0-5	2
		6	0	16.59	16.58	16.63	0-5	2

LTE Band 66 _ 3 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131987 Ch. 1711.5 MHz	132322 Ch. 1745 MHz	132657 Ch. 1778.5 MHz		
3 MHz	QPSK	1	0	18.18	18.66	19.06	0	0
		1	7	18.33	18.46	18.82	0	0
		1	14	18.09	18.50	19.04	0	0
		8	0	18.60	18.59	18.84	0-1	0
		8	3	18.43	18.67	18.51	0-1	0
		8	7	18.45	18.52	18.56	0-1	0
		15	0	18.36	18.38	18.56	0-1	0
	16QAM	1	0	18.33	18.56	18.57	0-1	0
		1	7	18.50	18.38	18.45	0-1	0
		1	14	18.50	18.58	18.49	0-1	0
		8	0	18.61	18.84	18.83	0-2	0
		8	3	18.28	18.55	18.46	0-2	0
		8	7	18.24	18.71	18.56	0-2	0
		15	0	18.29	18.63	18.60	0-2	0
	64QAM	1	0	18.32	18.74	18.39	0-2	0
		1	7	18.27	18.53	18.59	0-2	0
		1	14	18.41	18.81	18.48	0-2	0
		8	0	18.62	18.87	18.63	0-3	0
		8	3	18.36	18.62	18.53	0-3	0
		8	7	18.67	18.66	18.39	0-3	0
		15	0	18.55	18.66	18.57	0-3	0
	256QAM	1	0	16.60	16.88	16.78	0-5	2
		1	7	16.42	16.71	16.85	0-5	2
		1	14	16.54	16.58	16.57	0-5	2
		8	0	16.69	16.93	16.75	0-5	2
		8	3	16.37	16.85	16.71	0-5	2
		8	7	16.70	16.51	16.74	0-5	2
		15	0	16.40	16.65	16.60	0-5	2

LTE Band 66 _ 5 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131997 Ch. 1712.5 MHz	132322 Ch. 1745 MHz	132647 Ch. 1777.5 MHz		
5 MHz	QPSK	1	0	18.36	18.71	19.25	0	0
		1	12	18.47	18.77	19.07	0	0
		1	24	18.42	18.65	19.15	0	0
		12	0	18.84	18.91	18.92	0-1	0
		12	6	18.66	18.69	18.76	0-1	0
		12	11	18.59	18.70	18.59	0-1	0
		25	0	18.66	18.70	18.70	0-1	0
	16QAM	1	0	18.51	18.54	18.56	0-1	0
		1	12	18.60	18.57	18.72	0-1	0
		1	24	18.74	18.61	18.67	0-1	0
		12	0	18.82	19.01	18.97	0-2	0
		12	6	18.53	18.92	18.79	0-2	0
		12	11	18.50	18.77	18.71	0-2	0
		25	0	18.52	18.67	18.75	0-2	0
	64QAM	1	0	18.50	18.86	18.67	0-2	0
		1	12	18.43	18.85	18.69	0-2	0
		1	24	18.40	18.85	18.62	0-2	0
		12	0	18.82	18.86	18.85	0-3	0
		12	6	18.57	18.61	18.59	0-3	0
		12	11	18.79	18.76	18.76	0-3	0
		25	0	18.59	18.78	18.67	0-3	0
	256QAM	1	0	16.62	16.95	16.86	0-5	2
		1	12	16.61	16.90	16.94	0-5	2
		1	24	16.65	16.94	16.84	0-5	2
		12	0	16.75	16.97	16.85	0-5	2
		12	6	16.67	16.82	16.80	0-5	2
		12	11	16.74	16.82	16.85	0-5	2
		25	0	16.73	16.88	16.91	0-5	2

LTE Band 66 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132022 Ch. 1715 MHz	132322 Ch. 1745 MHz	132622 Ch. 1775 MHz		
10 MHz	QPSK	1	0	18.11	18.52	18.86	0	0
		1	24	18.25	18.39	18.72	0	0
		1	49	18.02	18.37	18.86	0	0
		25	0	18.45	18.52	18.66	0-1	0
		25	12	18.34	18.56	18.44	0-1	0
		25	24	18.37	18.37	18.40	0-1	0
		50	0	18.30	18.27	18.50	0-1	0
	16QAM	1	0	18.13	18.43	18.40	0-1	0
		1	24	18.33	18.32	18.37	0-1	0
		1	49	18.44	18.53	18.32	0-1	0
		25	0	18.43	18.64	18.66	0-2	0
		25	12	18.13	18.42	18.37	0-2	0
		25	24	18.18	18.56	18.41	0-2	0
		50	0	18.14	18.53	18.50	0-2	0
	64QAM	1	0	18.14	18.68	18.32	0-2	0
		1	24	18.21	18.48	18.50	0-2	0
		1	49	18.30	18.74	18.34	0-2	0
		25	0	18.49	18.80	18.53	0-3	0
		25	12	18.22	18.54	18.44	0-3	0
		25	24	18.51	18.46	18.32	0-3	0
		50	0	18.45	18.56	18.44	0-3	0
	256QAM	1	0	16.50	16.74	16.62	0-5	2
		1	24	16.37	16.51	16.69	0-5	2
		1	49	16.48	16.40	16.39	0-5	2
		25	0	16.58	16.78	16.67	0-5	2
		25	12	16.17	16.75	16.59	0-5	2
		25	24	16.59	16.40	16.56	0-5	2
		50	0	16.34	16.50	16.50	0-5	2

LTE Band 66 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132047 Ch. 1717.5 MHz	132322 Ch. 1745 MHz	132597 Ch. 1772.5 MHz		
15 MHz	QPSK	1	0	18.18	18.31	19.05	0	0
		1	36	18.11	18.45	18.77	0	0
		1	74	18.21	18.26	19.06	0	0
		36	0	18.70	18.63	18.52	0-1	0
		36	18	18.30	18.47	18.51	0-1	0
		36	39	18.18	18.43	18.14	0-1	0
		75	0	18.40	18.50	18.48	0-1	0
	16QAM	1	0	18.34	18.48	18.27	0-1	0
		1	36	18.39	18.37	18.37	0-1	0
		1	74	18.36	18.24	18.34	0-1	0
		36	0	18.38	18.66	18.72	0-2	0
		36	18	18.07	18.47	18.52	0-2	0
		36	39	18.38	18.48	18.61	0-2	0
		75	0	18.12	18.56	18.37	0-2	0
	64QAM	1	0	18.21	18.53	18.40	0-2	0
		1	36	18.16	18.35	18.44	0-2	0
		1	74	18.17	18.53	18.53	0-2	0
		36	0	18.62	18.58	18.53	0-3	0
		36	18	18.45	18.23	18.28	0-3	0
		36	39	18.24	18.52	18.47	0-3	0
		75	0	18.28	18.54	18.26	0-3	0
	256QAM	1	0	16.27	16.71	16.57	0-5	2
		1	36	16.22	16.53	16.66	0-5	2
		1	74	16.13	16.41	16.64	0-5	2
		36	0	16.57	16.88	16.55	0-5	2
		36	18	16.54	16.54	16.69	0-5	2
		36	39	16.38	16.53	16.48	0-5	2
		75	0	16.49	16.40	16.48	0-5	2

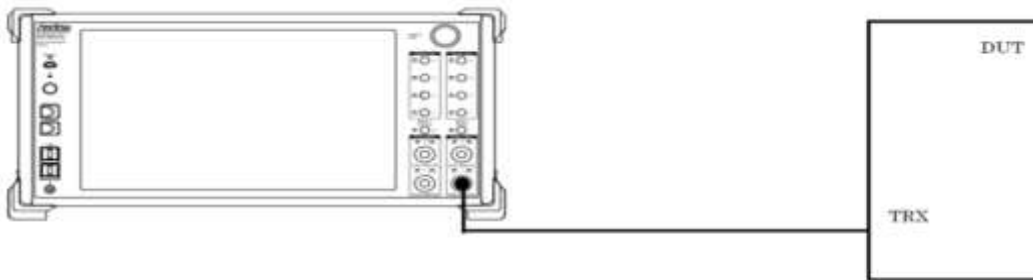
LTE Band 66 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132072 Ch. 1720 MHz	132322 Ch. 1745 MHz	132572 Ch. 1770 MHz		
20 MHz	QPSK	1	0	18.22	18.62	19.10	0	0
		1	49	18.35	18.57	18.99	0	0
		1	99	18.24	18.58	19.04	0	0
		50	0	18.71	18.75	18.77	0-1	0
		50	25	18.53	18.60	18.62	0-1	0
		50	49	18.45	18.56	18.50	0-1	0
		100	0	18.46	18.54	18.56	0-1	0
	16QAM	1	0	18.43	18.47	18.48	0-1	0
		1	49	18.44	18.49	18.57	0-1	0
		1	99	18.54	18.50	18.50	0-1	0
		50	0	18.63	18.90	18.81	0-2	0
		50	25	18.38	18.72	18.63	0-2	0
		50	49	18.44	18.69	18.62	0-2	0
		100	0	18.38	18.60	18.56	0-2	0
	64QAM	1	0	18.45	18.70	18.54	0-2	0
		1	49	18.36	18.67	18.64	0-2	0
		1	99	18.35	18.71	18.53	0-2	0
		50	0	18.74	18.81	18.79	0-3	0
		50	25	18.51	18.52	18.50	0-3	0
		50	49	18.59	18.60	18.59	0-3	0
		100	0	18.45	18.58	18.52	0-3	0
	256QAM	1	0	16.50	16.82	16.73	0-5	2
		1	49	16.55	16.81	16.81	0-5	2
		1	99	16.48	16.75	16.72	0-5	2
		50	0	16.66	16.84	16.68	0-5	2
		50	25	16.56	16.75	16.72	0-5	2
		50	49	16.66	16.71	16.77	0-5	2
		100	0	16.60	16.70	16.75	0-5	2

The EUT enables maximum power reduction in accordance with 3GPP 36.101. The MPR settings are configured during the manufacture process and are not configurable by the network, carrier, or end user.

11.3.4 LTE Up-link Carrier Aggregation Conducted Powers Setup

To measure the LTE UP CA power of this device, Anritsu's MT8821C was used to check the power as follows.



Power Measurement setup

.TDD CA_41C Intra-Band Contiguous Call Connection

Set to MT8821C with following parameters:

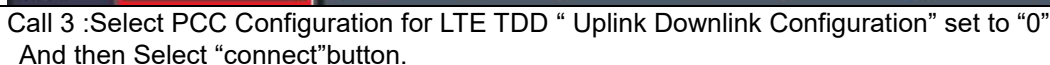
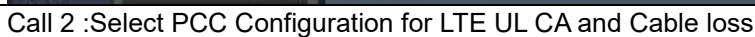
- Set up the call box for PCC Configuration for LTE Uplink CA
- Set up the call box for SCC Configuration for LTE Uplink CA
- Measure the maximum output power in Uplink LTE CA conditions.

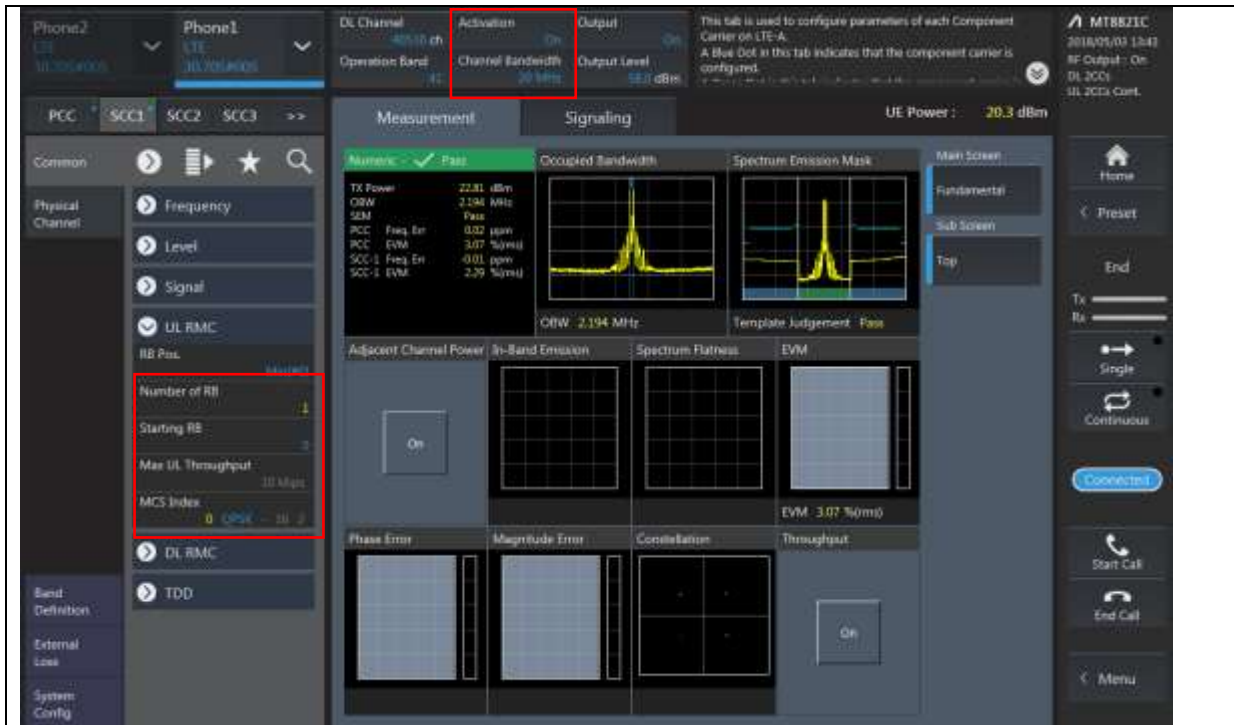
The screenshot shows the MT8821C software interface. The top bar displays 'Phone2 LTE' and 'Phone1 LTE'. The 'PCC' tab is selected. The 'SequenceMonitor' section shows a state transition diagram with 'Idle' and 'Connected' states. The 'UE Report' section shows the following data:

IMS/DEC	001010123456789
IMEI	355888090000740
IMEI (Check Digit)	355888090000745
UE Category	10
UE CategoryDL	10
UE CategoryUL	13
PDN Type	IPv4v6

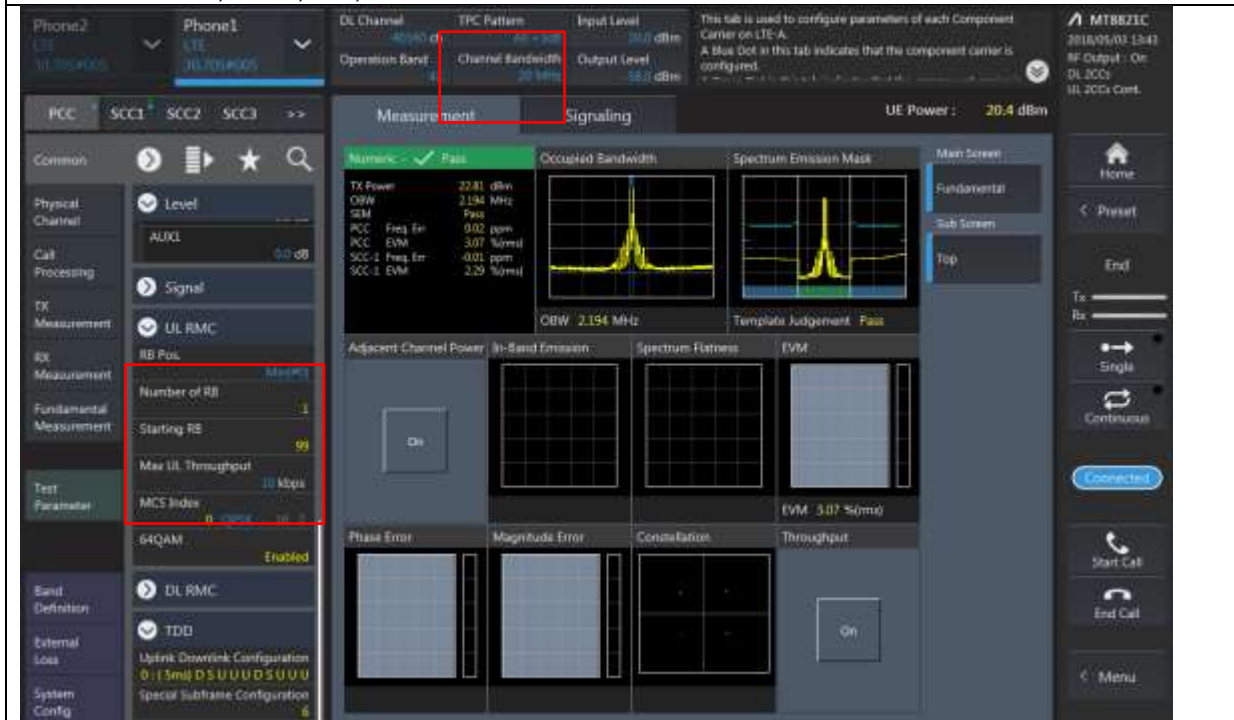
The 'Authentication Key K' is highlighted in red, showing the value: 00112233 44556677 8899AABB CCDDDEFF.

Call 1 :Select PCC Configuration for Authentication key to Register





Call 4 : Set to RB, offset, BW, modulation of SCC channel.



Call 5: Set to RB, offset, BW, modulation and Max Power conditions of PCC required test channel.

Uplink Carrier aggregation Conducted Powers

Up link CA	PCC						SCC						Tx. Power [dBm]	
	Band width [MHz]	Ch.	Frequency [MHz]	Mode	RB	RB Offset	Band width [MHz]	Channel	Frequency [MHz]	Mode	RB	RB Offset	LTE Single Carrier Tx	LTE Tx Power with UL CA Enabled
41C (PC3)	20	41490	2680	QPSK	1	0	20	41292	2660.2	QPSK	1	99	23.88	24.00
41C (PC2)	20	41490	2680	QPSK	1	0	20	41292	2660.2	QPSK	1	99	27.03	27.05

11.4 NR Maximum Output Power

11.4.1 NR Band Maximum Conducted Power

[NR Band n2 Conducted Power]

NR Band n2 _ 5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						370500	376000	381500	
						1852.5 MHz	1880 MHz	1907.5 MHz	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	23.73	23.87	23.79	0
				1	13	23.66	23.98	23.74	0
				1	23	23.57	23.92	23.66	0
				12	0	23.17	23.50	23.30	0.5
				12	7	23.60	23.94	23.72	0
				12	13	23.06	23.40	23.16	0.5
				25	0	23.15	23.46	23.24	0.5
			QPSK	1	1	23.72	23.93	23.80	0
				1	13	23.65	23.93	23.76	0
				1	23	23.59	23.92	23.75	0
				12	0	22.71	23.00	22.80	1
				12	7	23.60	23.95	23.71	0
				12	13	22.55	22.88	22.68	1
				25	0	22.64	22.95	22.76	1
			16QAM	1	1	22.63	22.88	22.69	1
			64QAM	1	1	21.33	21.57	21.44	2.5
			256QAM	1	1	18.55	18.45	18.42	4.5
		CP	QPSK	1	1	22.07	22.31	22.15	1.5

NR Band n2 _ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						371000	376000	381000	
						1855 MHz	1880 MHz	1905 MHz	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	23.67	23.94	24.07	0
				1	26	23.61	23.98	23.90	0
				1	50	23.53	23.95	23.86	0
				25	0	23.17	23.42	23.51	0.5
				25	14	23.62	24.00	23.91	0
				25	27	23.05	23.46	23.35	0.5
				50	0	23.07	23.44	23.52	0.5
			QPSK	1	1	23.66	23.97	24.04	0
				1	26	23.65	24.04	23.86	0
				1	50	23.57	23.91	23.91	0
				25	0	22.70	22.96	23.07	1
				25	14	23.64	24.02	23.93	0
				25	27	22.57	22.98	22.86	1
				50	0	22.63	23.03	23.02	1
			16QAM	1	1	22.63	22.94	22.93	1
			64QAM	1	1	21.40	21.82	21.67	2.5
			256QAM	1	1	18.43	18.55	18.34	4.5
		CP	QPSK	1	1	22.24	22.45	22.53	1.5

NR Band n2 _ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						371500	376000	380500	
						1857.5 MHz	1880 MHz	1902.5 MHz	
15 MHz	15	DFT-s	pi/2 BPSK	1	1	23.63	23.91	23.84	0
				1	40	23.50	23.93	23.81	0
				1	77	23.76	23.87	23.80	0
				36	0	23.07	23.44	23.32	0.5
				36	22	23.58	23.93	23.79	0
				36	43	23.19	23.44	23.36	0.5
				75	0	23.09	23.42	23.32	0.5
			QPSK	1	1	23.69	23.94	23.86	0
				1	40	23.59	24.00	23.85	0
				1	77	23.79	23.94	23.87	0
				36	0	22.65	22.96	22.84	1
				36	22	23.56	23.97	23.81	0
				36	43	22.67	22.93	22.84	1
				75	0	22.58	23.01	22.84	1
			16QAM	1	1	22.59	22.90	22.82	1
			64QAM	1	1	21.30	21.52	21.66	2.5
			256QAM	1	1	18.40	18.74	18.55	4.5
		CP	QPSK	1	1	22.13	22.45	22.40	1.5

NR Band n2 _ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						372000	376000	380000	
						1860 MHz	1880 MHz	1900 MHz	
20 MHz	15	DFT-s	pi/2 BPSK	1	1	23.58	23.80	23.83	0
				1	53	23.59	23.93	23.84	0
				1	104	23.79	23.90	23.79	0
				50	0	23.07	23.33	23.40	0.5
				50	28	23.68	23.95	23.90	0
				50	56	23.26	23.41	23.38	0.5
				100	0	23.22	23.48	23.42	0.5
			QPSK	1	1	23.60	23.83	23.90	0
				1	53	23.66	23.99	23.90	0
				1	104	23.83	23.93	23.89	0
				50	0	22.60	22.95	22.91	1
				50	28	23.68	23.98	23.90	0
				50	56	22.72	22.95	22.89	1
				100	0	22.73	22.99	22.94	1
			16QAM	1	1	22.46	22.77	22.84	1
			64QAM	1	1	21.23	21.48	21.48	2.5
			256QAM	1	1	18.50	18.64	18.79	4.5
		CP	QPSK	1	1	22.16	22.38	22.38	1.5

[NR Band n5 Conducted Power]

NR Band n5_ 5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						165300	167300	169300	
						826.5 MHz	836.5 MHz	846.5 MHz	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	23.70	23.61	23.51	0
				1	13	23.64	23.51	23.44	0
				1	23	23.73	23.51	23.48	0
				12	0	23.19	23.03	23.00	0.5
				12	7	23.62	23.47	23.44	0
				12	13	23.13	23.03	22.95	0.5
				25	0	23.17	23.05	22.98	0.5
			QPSK	1	1	23.71	23.62	23.56	0
				1	13	23.66	23.52	23.45	0
				1	23	23.68	23.53	23.46	0
				12	0	22.57	22.53	22.50	1
				12	7	23.62	23.47	23.42	0
				12	13	22.66	22.54	22.45	1
				25	0	22.67	22.51	22.45	1
			16QAM	1	1	22.70	22.56	22.48	1
			64QAM	1	1	21.41	21.32	21.19	2.5
			256QAM	1	1	18.70	18.62	18.49	4.5
		CP	QPSK	1	1	22.18	22.03	21.99	1.5

NR Band n5_ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							167300		
							836.5 MHz		
10 MHz	15	DFT-s	pi/2 BPSK	1	1		23.59		0
				1	26		23.51		0
				1	50		23.39		0
				25	0		23.12		0.5
				25	14		23.57		0
				25	27		23.01		0.5
				50	0		23.06		0.5
			QPSK	1	1		23.61		0
				1	26		23.53		0
				1	50		23.40		0
				25	0		22.62		1
				25	14		23.54		0
				25	27		22.50		1
				50	0		22.58		1
			16QAM	1	1		22.49		1
			64QAM	1	1		21.23		2.5
			256QAM	1	1		19.08		4.5
		CP	QPSK	1	1		22.05		1.5

NR Band n5_ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							167300		
							836.5 MHz		
15 MHz	15	DFT-s	pi/2 BPSK	1	1		23.80		0
				1	40		23.80		0
				1	77		23.81		0
				36	0		23.38		0.5
				36	22		23.83		0
				36	43		23.25		0.5
				75	0		23.37		0.5
			QPSK	1	1		23.87		0
				1	40		23.83		0
				1	77		23.81		0
				36	0		22.85		1
				36	22		23.84		0
				36	43		22.77		1
				75	0		22.85		1
			16QAM	1	1		22.73		1
			64QAM	1	1		21.45		2.5
			256QAM	1	1		19.36		4.5
		CP	QPSK	1	1		22.36		1.5

NR Band n5_ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							167300		
							836.5 MHz		
20 MHz	15	DFT-s	pi/2 BPSK	1	1		23.81		0
				1	53		23.79		0
				1	104		23.71		0
				50	0		23.40		0.5
				50	28		23.84		0
				50	56		23.25		0.5
				100	0		23.38		0.5
			QPSK	1	1		23.88		0
				1	53		23.83		0
				1	104		23.76		0
				50	0		22.81		1
				50	28		23.84		0
				50	56		22.74		1
				100	0		22.89		1
			16QAM	1	1		22.76		1
			64QAM	1	1		21.49		2.5
			256QAM	1	1		18.90		4.5
		CP	QPSK	1	1		22.35		1.5

[NR Band n12 Conducted Power]

NR Band n12_ 5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						140300	141500	142700	
						701.5 MHz	707.5 MHz	713.5 MHz	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	23.53	23.74	23.77	0
				1	13	23.59	23.79	23.71	0
				1	23	23.63	23.77	23.75	0
				12	0	23.07	23.25	23.29	0.5
				12	7	23.58	23.78	23.69	0
				12	13	23.05	23.26	23.20	0.5
				25	0	23.11	23.31	23.22	0.5
			QPSK	1	1	23.51	23.74	23.80	0
				1	13	23.60	23.80	23.72	0
				1	23	23.63	23.78	23.74	0
				12	0	22.51	22.74	22.78	1
				12	7	23.59	23.74	23.69	0
				12	13	22.56	22.77	22.66	1
				25	0	22.58	22.77	22.75	1
			16QAM	1	1	22.55	22.73	22.76	1
			64QAM	1	1	21.23	21.40	21.45	2.5
			256QAM	1	1	18.48	18.66	18.70	4.5
		CP	QPSK	1	1	21.96	22.19	22.23	1.5

NR Band n12_ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							141500		
							707.5 MHz		
10 MHz	15	DFT-s	pi/2 BPSK	1	1		23.71		0
				1	26		23.79		0
				1	50		23.84		0
				25	0		23.24		0.5
				25	14		23.78		0
				25	27		23.30		0.5
				50	0		23.24		0.5
			QPSK	1	1		23.65		0
				1	26		23.80		0
				1	50		23.84		0
				25	0		22.79		1
				25	14		23.82		0
				25	27		22.81		1
				50	0		22.73		1
			16QAM	1	1		22.75		1
			64QAM	1	1		21.45		2.5
			256QAM	1	1		18.65		4.5
		CP	QPSK	1	1		22.20		1.5

NR Band n12_ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							141500		
							707.5 MHz		
15 MHz	15	DFT-s	pi/2 BPSK	1	1		23.56		0
				1	40		23.70		0
				1	77		23.70		0
				36	0		23.06		0.5
				36	22		23.71		0
				36	43		23.19		0.5
				75	0		23.27		0.5
			QPSK	1	1		23.60		0
				1	40		23.72		0
				1	77		23.73		0
				36	0		22.60		1
				36	22		23.69		0
				36	43		22.66		1
				75	0		22.79		1
			16QAM	1	1		22.57		1
			64QAM	1	1		21.34		2.5
			256QAM	1	1		18.50		4.5
		CP	QPSK	1	1		22.12		1.5

[NR Band n25 Conducted Power]

NR Band n25 _ 5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						370500	376500	382500	
						1852.5 MHz	1882.5 MHz	1912.5 MHz	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	23.59	23.86	23.77	0
				1	13	23.48	23.82	23.80	0
				1	23	23.54	23.83	23.84	0
				12	0	22.97	23.30	23.35	0.5
				12	7	23.43	23.79	23.84	0
				12	13	22.96	23.30	23.38	0.5
			QPSK	25	0	23.00	23.30	23.42	0.5
				1	1	23.56	23.90	23.84	0
				1	13	23.51	23.81	23.86	0
				1	23	23.56	23.87	23.89	0
				12	0	22.54	22.83	22.85	1
				12	7	23.46	23.77	23.84	0
				12	13	22.53	22.83	22.89	1
				25	0	22.53	22.85	22.90	1
			16QAM	1	1	22.52	22.80	22.78	1
			64QAM	1	1	21.26	21.51	21.40	2.5
			256QAM	1	1	19.01	18.81	19.20	4.5
		CP	QPSK	1	1	21.98	22.30	22.28	1.5

NR Band n25 _ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						371000	376500	382000	
						1855 MHz	1882.5 MHz	1910 MHz	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	23.66	23.78	23.83	0
				1	26	23.61	23.87	23.82	0
				1	50	23.58	23.80	23.90	0
				25	0	23.19	23.40	23.45	0.5
				25	14	23.65	23.91	23.96	0
				25	27	23.10	23.39	23.42	0.5
			QPSK	50	0	23.13	23.40	23.53	0.5
				1	1	23.68	23.78	23.86	0
				1	26	23.65	23.88	23.88	0
				1	50	23.54	23.83	23.89	0
				25	0	22.66	22.91	22.93	1
				25	14	23.66	23.90	23.92	0
				25	27	22.64	22.86	22.95	1
				50	0	22.65	22.89	22.92	1
			16QAM	1	1	22.59	22.75	22.74	1
			64QAM	1	1	21.09	21.42	21.48	2.5
			256QAM	1	1	19.08	19.43	19.82	4.5
		CP	QPSK	1	1	22.50	22.68	22.75	1.5

NR Band n25 _ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						371500	376500	381500	
						1857.5 MHz	1882.5 MHz	1907.5 MHz	
15 MHz	15	DFT-s	pi/2 BPSK	1	1	23.63	23.96	23.88	0
				1	40	23.55	23.78	23.76	0
				1	77	23.72	23.81	23.84	0
				36	0	23.06	23.35	23.37	0.5
				36	22	23.62	23.81	23.90	0
				36	43	23.15	23.38	23.46	0.5
				75	0	23.14	23.34	23.44	0.5
			QPSK	1	1	23.66	23.97	23.91	0
				1	40	23.62	23.84	23.87	0
				1	77	23.72	23.85	23.88	0
				36	0	22.59	22.87	22.91	1
				36	22	23.63	23.82	23.89	0
				36	43	22.62	22.86	22.95	1
				75	0	22.70	22.84	22.90	1
			16QAM	1	1	22.56	22.87	22.87	1
			64QAM	1	1	21.29	21.83	21.49	2.5
			256QAM	1	1	18.50	18.75	18.72	4.5
		CP	QPSK	1	1	22.10	22.40	22.36	1.5

NR Band n25 _ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						372000	376500	381000	
						1860 MHz	1882.5 MHz	1905 MHz	
20 MHz	15	DFT-s	pi/2 BPSK	1	1	23.51	23.83	23.92	0
				1	53	23.53	23.79	23.82	0
				1	104	23.72	23.76	23.89	0
				50	0	23.02	23.35	23.45	0.5
				50	28	23.65	23.85	23.96	0
				50	56	23.22	23.40	23.54	0.5
				100	0	23.17	23.39	23.50	0.5
			QPSK	1	1	23.58	23.84	23.93	0
				1	53	23.61	23.85	23.92	0
				1	104	23.76	23.84	23.90	0
				50	0	22.58	22.96	22.98	1
				50	28	23.62	23.90	23.94	0
				50	56	22.74	22.84	22.97	1
				100	0	22.68	22.93	23.03	1
			16QAM	1	1	22.49	22.76	22.90	1
			64QAM	1	1	21.17	21.45	21.35	2.5
			256QAM	1	1	19.63	19.26	19.91	4.5
		CP	QPSK	1	1	21.99	22.32	22.42	1.5

NR Band n25 _ 25 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						372500		380500	
						1862.5 MHz		1902.5 MHz	
25 MHz	15	DFT-s	pi/2 BPSK	1	1	23.75		23.64	0
				1	66	23.88		23.58	0
				1	131	24.03		23.64	0
				64	0	23.41		23.36	0.5
				64	35	24.01		23.80	0
				64	69	23.50		23.30	0.5
				128	0	23.48		23.32	0.5
			QPSK	1	1	23.68		23.63	0
				1	66	23.76		23.48	0
				1	131	23.91		23.55	0
				64	0	22.91		22.87	1
				64	35	24.01		23.82	0
				64	69	23.06		22.82	1
				128	0	22.98		22.85	1
			16QAM	1	1	23.31		23.04	1
			64QAM	1	1	21.65		21.22	2.5
			256QAM	1	1	19.86		19.42	4.5
		CP	QPSK	1	1	22.18		22.12	1.5

NR Band n25 _ 30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						373000		380000	
						1865 MHz		1900 MHz	
30 MHz	15	DFT-s	pi/2 BPSK	1	1	23.76		23.70	0
				1	80	23.91		23.71	0
				1	158	24.00		23.67	0
				80	0	23.47		23.45	0.5
				80	40	23.97		23.89	0
				80	80	23.63		23.39	0.5
				160	0	23.53		23.46	0.5
			QPSK	1	1	23.68		23.65	0
				1	80	23.79		23.66	0
				1	158	23.96		23.57	0
				80	0	22.97		22.94	1
				80	40	23.97		23.88	0
				80	80	23.16		22.83	1
				160	0	23.08		22.93	1
			16QAM	1	1	23.23		23.15	1
			64QAM	1	1	21.55		21.43	2.5
			256QAM	1	1	19.66		19.52	4.5
		CP	QPSK	1	1	22.25		22.16	1.5

NR Band n25 _ 40 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							376500		
							1882.5 MHz		
40 MHz	15	DFT-s	pi/2 BPSK	1	1		23.55		0
				1	108		23.78		0
				1	214		23.67		0
				108	0		23.36		0.5
				108	54		23.94		0
				108	108		23.40		0.5
				216	0		23.38		0.5
			QPSK	1	1		23.47		0
				1	108		23.69		0
				1	214		23.59		0
				108	0		22.88		1
				108	54		23.96		0
				108	108		22.92		1
				216	0		22.91		1
			16QAM	1	1		22.92		1
			64QAM	1	1		21.77		2.5
			256QAM	1	1		19.62		4.5
		CP	QPSK	1	1		21.97		1.5

[NR Band n30 Conducted Power]

NR Band n30_ 5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							462000		
							2310 MHz		
5 MHz	15	DFT-s	pi/2 BPSK	1	1		23.12		0
				1	13		23.21		0
				1	23		23.15		0
				12	0		22.70		0.5
				12	7		23.19		0
				12	13		22.67		0.5
				25	0		22.67		0.5
			QPSK	1	1		23.17		0
				1	13		23.25		0
				1	23		23.14		0
				12	0		22.20		1
				12	7		23.19		0
				12	13		22.23		1
				25	0		22.17		1
			16QAM	1	1		22.15		1
			64QAM	1	1		20.81		2.5
			256QAM	1	1		18.01		4.5
		CP	QPSK	1	1		21.55		1.5

NR Band n30_ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							462000		
							2310 MHz		
10 MHz	15	DFT-s	pi/2 BPSK	1	1		23.26		0
				1	26		23.22		0
				1	50		23.12		0
				25	0		22.73		0.5
				25	14		23.24		0
				25	27		22.71		0.5
				50	0		22.69		0.5
			QPSK	1	1		23.25		0
				1	26		23.24		0
				1	50		23.15		0
				25	0		22.24		1
				25	14		23.20		0
				25	27		22.20		1
				50	0		22.18		1
			16QAM	1	1		22.21		1
			64QAM	1	1		20.95		2.5
			256QAM	1	1		18.01		4.5
		CP	QPSK	1	1		21.65		1.5

[NR Band n41 Conducted Power]

NR Band n41 _20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						501204	509898	518598	527298	535998	
						2506.02 MHz	2549.49 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz	
20 MHz	30	DFT-s	pi/2 BPSK	1	1	21.60	21.10	21.13	20.72	20.62	0
				1	26	21.62	20.96	21.07	20.51	20.61	0
				1	49	21.56	21.00	21.02	20.62	20.75	0
				25	0	21.64	21.17	21.14	20.75	20.80	0
				25	13	21.64	21.10	21.17	20.66	20.76	0
				25	26	21.63	21.08	21.13	20.74	20.81	0
				50	0	21.61	21.09	21.21	20.69	20.85	0
			QPSK	1	1	21.58	21.14	21.13	20.74	20.65	0
				1	26	21.57	21.00	21.06	20.54	20.66	0
				1	49	21.48	20.96	21.00	20.63	20.77	0
				25	0	21.67	21.19	21.16	20.75	20.82	0
				25	13	21.66	21.17	21.21	20.68	20.81	0
				25	26	21.63	21.11	21.15	20.76	20.83	0
				50	0	21.60	21.15	21.21	20.71	20.80	0
			16QAM	1	1	21.68	21.27	21.23	20.86	20.80	0
			64QAM	1	1	21.18	20.73	20.73	20.33	20.24	0
			256QAM	1	1	19.33	18.91	19.39	19.02	18.95	1.5
		CP	QPSK	1	1	21.54	21.15	21.12	20.74	20.62	0

NR Band n41 _30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						502200	510402	518598	526800	534996	
						2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz	
30 MHz	30	DFT-s	pi/2 BPSK	1	1	21.37	21.38	21.15	21.04	20.86	0
				1	39	21.18	21.13	21.18	20.90	20.81	0
				1	76	21.23	21.13	21.29	20.92	21.05	0
				36	0	21.35	21.29	21.21	21.10	20.86	0
				36	21	21.24	21.20	21.27	20.99	20.86	0
				36	42	21.30	21.18	21.23	20.91	21.05	0
				75	0	21.30	21.24	21.31	21.05	20.92	0
			QPSK	1	1	21.31	21.42	21.14	21.03	20.88	0
				1	39	21.16	21.12	21.18	20.89	20.80	0
				1	76	21.21	21.15	21.23	20.95	21.03	0
				36	0	21.37	21.30	21.24	21.09	20.92	0
				36	21	21.26	21.21	21.27	21.01	20.85	0
				36	42	21.31	21.24	21.26	20.97	21.07	0
				75	0	21.28	21.28	21.29	21.07	20.94	0
			16QAM	1	1	21.46	21.53	21.26	21.21	21.04	0
			64QAM	1	1	20.92	20.99	20.75	20.52	20.49	0
			256QAM	1	1	19.10	19.17	19.42	19.28	19.10	1.5
		CP	QPSK	1	1	21.33	21.39	21.10	20.94	20.80	0

NR Band n41 _40 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						503202	513468		523734	534000	
						2516.01 MHz	2567.34 MHz		2618.67 MHz	2670 MHz	
40 MHz	30	DFT-s	pi/2 BPSK	1	1	21.39	21.39		21.12	20.93	0
				1	53	21.28	21.09		20.94	20.82	0
				1	104	21.44	21.33		20.96	21.17	0
				50	0	21.37	21.25		21.12	20.99	0
				50	28	21.34	21.18		21.05	20.91	0
				50	56	21.45	21.27		21.09	21.12	0
				100	0	21.42	21.22		21.13	20.99	0
			QPSK	1	1	21.45	21.39		21.15	20.97	0
				1	53	21.31	21.09		20.95	20.85	0
				1	104	21.42	21.30		20.93	21.15	0
				50	0	21.39	21.27		21.14	21.00	0
				50	28	21.41	21.17		21.08	20.99	0
				50	56	21.49	21.28		21.12	21.15	0
				100	0	21.44	21.23		21.16	21.02	0
			16QAM	1	1	21.58	21.53		21.23	21.08	0
			64QAM	1	1	21.00	20.48		20.73	20.58	0
			256QAM	1	1	19.33	19.44		19.50	19.26	1.5
		CP	QPSK	1	1	21.48	21.38		21.17	20.91	0

NR Band n41 _50 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						504204		518598		532998	
						2521.02 MHz		2592.99 MHz		2664.99 MHz	
50 MHz	30	DFT-s	pi/2 BPSK	1	1	21.23		21.29		20.95	0
				1	67	21.44		21.27		20.84	0
				1	131	20.99		21.18		21.00	0
				64	0	21.34		21.33		20.97	0
				64	35	21.45		21.25		20.92	0
				64	69	21.32		21.24		21.02	0
				128	0	21.41		21.31		21.01	0
			QPSK	1	1	21.22		21.29		20.99	0
				1	67	21.39		21.27		20.86	0
				1	131	20.99		21.21		21.03	0
				64	0	21.37		21.34		21.07	0
				64	35	21.45		21.31		20.94	0
				64	69	21.32		21.28		21.05	0
				128	0	21.39		21.34		20.95	0
			16QAM	1	1	21.31		21.39		21.08	0
			64QAM	1	1	20.82		20.87		20.64	0
			256QAM	1	1	19.09		19.65		19.31	1.5
		CP	QPSK	1	1	21.20		21.30		20.99	0

NR Band n41 _60 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						505200		518598		531996	
						2526 MHz		2592.99 MHz		2659.98 MHz	
60 MHz	30	DFT-s	pi/2 BPSK	1	1	21.03		21.27		20.94	0
				1	81	21.37		21.33		20.81	0
				1	160	20.77		21.16		20.95	0
				81	0	21.26		21.41		20.91	0
				81	41	21.38		21.37		20.89	0
				81	81	21.21		21.33		21.03	0
				162	0	21.27		21.41		20.98	0
			QPSK	1	1	21.07		21.29		21.03	0
				1	81	21.36		21.32		20.81	0
				1	160	20.79		21.17		20.96	0
				81	0	21.29		21.46		20.98	0
				81	41	21.42		21.39		20.92	0
				81	81	21.22		21.31		21.06	0
				162	0	21.30		21.39		21.00	0
			16QAM	1	1	21.20		21.40		21.13	0
			64QAM	1	1	20.67		20.87		20.62	0
			256QAM	1	1	18.91		19.61		19.31	1.5
		CP	QPSK	1	1	21.04		21.27		20.97	0

NR Band n41 _70 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]	
						506208					530994
						2531.04 MHz					2654.97 MHz
70 MHz	30	DFT-s	pi/2 BPSK	1	1	21.66				21.14	0
				1	81	21.45				20.86	0
				1	160	21.26				20.94	0
				81	0	21.61				21.20	0
				81	41	21.51				20.88	0
				81	81	21.45				20.96	0
				162	0	21.59				21.03	0
			QPSK	1	1	21.63				21.18	0
				1	81	21.45				20.84	0
				1	160	21.30				20.93	0
				81	0	21.63				21.21	0
				81	41	21.56				20.96	0
				81	81	21.48				21.01	0
				162	0	21.61				21.10	0
			16QAM	1	1	21.77				21.31	0
			64QAM	1	1	20.68				20.78	0
			256QAM	1	1	19.47				19.47	1.5
		CP	QPSK	1	1	21.53				21.17	0

NR Band n41 _80 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]	
						507204					529998
						2536.02 MHz					2649.99 MHz
80 MHz	30	DFT-s	pi/2 BPSK	1	1	21.56				21.12	0
				1	109	21.35				20.76	0
				1	215	21.10				21.01	0
				108	0	21.52				21.09	0
				108	55	21.39				20.98	0
				108	109	21.22				20.95	0
				216	0	21.45				21.06	0
			QPSK	1	1	21.54				21.14	0
				1	109	21.29				20.80	0
				1	215	21.08				20.96	0
				108	0	21.52				21.11	0
				108	55	21.42				20.97	0
				108	109	21.32				20.92	0
				216	0	21.43				21.07	0
			16QAM	1	1	21.67				21.23	0
			64QAM	1	1	20.56				20.72	0
			256QAM	1	1	19.42				19.45	1.5
		CP	QPSK	1	1	21.49				21.10	0

NR Band n41 _90 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]	
						508200					528996
						2541 MHz					2644.98 MHz
90 MHz	30	DFT-s	pi/2 BPSK	1	1	21.63				21.18	0
				1	123	21.37				20.98	0
				1	243	21.07				20.98	0
				120	0	21.61				21.27	0
				120	63	21.49				21.09	0
				120	125	21.30				20.95	0
			243	0	21.43				21.19	0	
			QPSK	1	1	21.66				21.24	0
				1	123	21.38				20.96	0
				1	243	20.98				20.98	0
				120	0	21.59				21.29	0
				120	63	21.49				21.03	0
				120	125	21.26				20.97	0
			243	0	21.43				21.21	0	
			16QAM	1	1	21.74				21.33	0
			64QAM	1	1	20.62				20.82	0
			256QAM	1	1	19.47				19.53	1.5
		CP	QPSK	1	1	21.57				21.23	0

NR Band n41 _100 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]
								518598		
								2592.99 MHz		
100 MHz	30	DFT-s	pi/2 BPSK	1	1			21.40		0
				1	137			21.24		0
				1	271			20.85		0
				135	0			21.33		0
				135	69			21.26		0
				135	138			21.09		0
				270	0			21.22		0
			QPSK	1	1			21.39		0
				1	137			21.25		0
				1	271			20.89		0
				135	0			21.30		0
				135	69			21.39		0
				135	138			21.15		0
				270	0			21.26		0
			16QAM	1	1			21.53		0
			64QAM	1	1			19.95		0
			256QAM	1	1			18.94		1.5
		CP	QPSK	1	1			21.22		0

[NR Band n41 Conducted Power] - Power Class 2]

NR Band n41 _20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						501204	509898	518598	527298	535998	
						2506.02	2549.49	2592.99	2636.49	2679.99	
20 MHz	30	DFT-s	pi/2 BPSK	1	1	24.88	25.24	26.32	25.97	25.22	0
				1	26	24.78	25.21	26.30	25.76	25.08	0
				1	49	24.99	25.38	26.42	25.61	25.05	0
				25	0	24.38	24.80	25.89	25.45	24.79	0.5
				25	13	24.88	25.27	26.45	25.84	25.18	0
				25	26	24.48	24.93	25.96	25.27	24.63	0.5
				50	0	24.42	24.76	25.95	25.40	24.66	0.5
			QPSK	1	1	24.82	25.17	26.31	25.95	25.18	0
				1	26	24.76	25.15	26.24	25.68	25.04	0
				1	49	24.92	25.34	26.36	25.63	25.05	0
				25	0	23.89	24.27	25.41	24.98	24.23	1
				25	13	24.86	25.29	26.45	25.86	25.20	0
				25	26	24.01	24.41	25.45	24.75	24.09	1
				50	0	23.88	24.32	25.48	24.88	24.20	1
			16QAM	1	1	23.63	24.29	25.07	24.73	23.98	1
			64QAM	1	1	22.15	22.32	23.41	23.09	22.27	2.5
			256QAM	1	1	20.21	20.57	21.71	21.34	20.60	4.5
		CP	QPSK	1	1	23.32	23.67	24.78	24.24	23.60	1.5

NR Band n41 _30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						502200	510402	518598	526800	534996	
						2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz	
30 MHz	30	DFT-s	pi/2 BPSK	1	1	24.99	25.23	26.27	26.27	25.64	0
				1	39	25.06	25.33	26.29	26.10	25.35	0
				1	76	25.24	25.65	26.45	25.93	25.36	0
				36	0	24.51	24.89	25.84	25.74	25.05	0.5
				36	21	25.13	25.40	26.35	26.17	25.37	0
				36	42	24.73	25.16	25.97	25.60	24.84	0.5
				75	0	24.67	24.98	25.85	25.72	24.91	0.5
			QPSK	1	1	24.96	25.24	26.30	26.29	25.62	0
				1	39	25.04	25.37	26.29	26.10	25.32	0
				1	76	25.23	25.66	26.43	25.93	25.36	0
				36	0	24.06	24.43	25.33	25.23	24.51	1
				36	21	25.13	25.42	26.31	26.19	25.38	0
				36	42	24.25	24.67	25.50	25.11	24.35	1
				75	0	24.20	24.49	25.37	25.24	24.44	1
			16QAM	1	1	23.71	23.99	25.03	25.05	24.57	1
			64QAM	1	1	22.09	22.36	23.36	23.39	22.73	2.5
			256QAM	1	1	20.21	20.70	21.64	21.75	21.00	4.5
		CP	QPSK	1	1	23.40	23.72	24.80	24.77	24.07	1.5

NR Band n41 _40 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						503202	513468		523734	534000	
						2516.01 MHz	2567.34 MHz		2618.67 MHz	2670 MHz	
40 MHz	30	DFT-s	pi/2 BPSK	1	1	24.99	26.01		26.43	25.79	0
				1	53	24.98	26.13		26.18	25.28	0
				1	104	25.38	26.41		26.13	25.30	0
				50	0	24.43	25.54		25.85	25.12	0.5
				50	28	25.06	26.25		26.25	25.39	0
				50	56	24.69	25.88		25.76	24.80	0.5
				100	0	24.65	25.78		25.83	24.99	0.5
			QPSK	1	1	24.98	26.05		26.45	25.83	0
				1	53	24.97	26.18		26.18	25.32	0
				1	104	25.36	26.44		26.13	25.33	0
				50	0	24.00	25.08		25.40	24.61	1
				50	28	25.07	26.26		26.26	25.41	0
				50	56	24.23	25.40		25.27	24.29	1
				100	0	24.14	25.28		25.27	24.44	1
			16QAM	1	1	23.80	25.04		25.21	24.81	1
			64QAM	1	1	22.11	23.13		23.52	22.93	2.5
			256QAM	1	1	20.35	21.45		21.79	21.15	4.5
		CP	QPSK	1	1	23.45	24.50		24.93	24.28	1.5

NR Band n41 _50 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						504204		518598		532998	
						2521.02 MHz		2592.99 MHz		2664.99 MHz	
50 MHz	30	DFT-s	pi/2 BPSK	1	1	24.96		26.22		26.01	0
				1	67	25.12		26.40		25.49	0
				1	131	25.36		26.38		25.11	0
				64	0	24.59		25.84		25.33	0.5
				64	35	25.23		26.48		25.55	0
				64	69	24.83		25.96		24.81	0.5
				128	0	24.79		26.00		25.10	0.5
			QPSK	1	1	24.96		26.27		26.03	0
				1	67	25.11		26.47		25.51	0
				1	131	25.34		26.45		25.16	0
				64	0	24.12		25.35		24.81	1
				64	35	25.28		26.48		25.55	0
				64	69	24.36		25.42		24.29	1
				128	0	24.31		25.45		24.60	1
			16QAM	1	1	23.75		25.05		24.78	1
			64QAM	1	1	22.05		23.39		23.11	2.5
			256QAM	1	1	20.43		21.65		21.43	4.5
		CP	QPSK	1	1	23.45		24.69		24.39	1.5

NR Band n41_60 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						505200		518598		531996	
						2526 MHz		2592.99 MHz		2659.98 MHz	
60 MHz	30	DFT-s	pi/2 BPSK	1	1	24.78		26.13		26.04	0
				1	81	25.10		26.46		25.47	0
				1	160	25.38		26.22		25.03	0
				81	0	24.53		25.88		25.37	0.5
				81	41	25.21		26.50		25.56	0
				81	81	24.83		25.98		24.81	0.5
				162	0	24.74		26.01		25.09	0.5
			QPSK	1	1	24.87		26.19		26.08	0
				1	81	25.13		26.49		25.50	0
				1	160	25.46		26.29		25.08	0
				81	0	24.08		25.40		24.85	1
				81	41	25.18		26.53		25.56	0
				81	81	24.33		25.43		24.30	1
				162	0	24.24		25.47		24.61	1
			16QAM	1	1	23.76		25.24		24.88	1
			64QAM	1	1	22.08		23.32		23.20	2.5
			256QAM	1	1	20.24		21.60		21.43	4.5
		CP	QPSK	1	1	23.34		24.55		24.48	1.5

NR Band n41_70 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]	
						506208					530994
						2531.04 MHz					2654.97 MHz
70 MHz	30	DFT-s	pi/2 BPSK	1	1	24.88				26.16	0
				1	81	25.04				25.68	0
				1	160	25.34				25.13	0
				81	0	24.54				25.53	0.5
				81	41	25.14				25.67	0
				81	81	24.80				24.94	0.5
				162	0	24.67				25.24	0.5
			QPSK	1	1	24.92				26.23	0
				1	81	25.08				25.62	0
				1	160	25.42				25.11	0
				81	0	24.02				25.06	1
				81	41	25.14				25.71	0
				81	81	24.31				24.49	1
				162	0	24.19				24.77	1
			16QAM	1	1	23.77				24.98	1
			64QAM	1	1	22.03				23.30	2.5
			256QAM	1	1	20.29				21.44	4.5
		CP	QPSK	1	1	23.30				24.64	1.5

NR Band n41 _80 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]	
						507204					529998
						2536.02 MHz					2649.99 MHz
80 MHz	30	DFT-s	pi/2 BPSK	1	1	24.78				26.06	0
				1	109	25.07				25.52	0
				1	215	25.52				24.93	0
				108	0	24.41				25.51	0.5
				108	55	25.17				25.61	0
				108	109	24.94				24.79	0.5
				216	0	24.63				25.18	0.5
			QPSK	1	1	24.79				26.12	0
				1	109	25.10				25.52	0
				1	215	25.52				25.00	0
				108	0	23.94				25.03	1
				108	55	25.12				25.60	0
				108	109	24.44				24.32	1
				216	0	24.13				24.65	1
			16QAM	1	1	23.58				24.93	1
			64QAM	1	1	22.12				23.20	2.5
			256QAM	1	1	20.23				21.51	4.5
		CP	QPSK	1	1	23.25				24.55	1.5

NR Band n41 _90 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]	
						508200					528996
						2541 MHz					2644.98 MHz
90 MHz	30	DFT-s	pi/2 BPSK	1	1	24.78				26.22	0
				1	123	25.17				25.72	0
				1	243	25.55				24.98	0
				120	0	24.61				25.71	0.5
				120	63	25.29				25.81	0
				120	125	25.04				24.90	0.5
				243	0	24.86				25.33	0.5
			QPSK	1	1	24.88				26.26	0
				1	123	25.24				25.76	0
				1	243	25.63				25.00	0
				120	0	24.12				25.23	1
				120	63	25.29				25.83	0
				120	125	24.56				24.40	1
				243	0	24.35				24.84	1
			16QAM	1	1	23.70				25.09	1
			64QAM	1	1	22.07				23.31	2.5
			256QAM	1	1	20.24				21.63	4.5
		CP	QPSK	1	1	23.38				24.67	1.5

NR Band n41 _100 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
								518598			
								2592.99			
100 MHz	30	DFT-s	pi/2 BPSK	1	1			MHz			0
				1	137						0
				1	271						0
				135	0						0.5
				135	69						0
				135	138						0.5
				270	0						0.5
			QPSK	1	1						0
				1	137						0
				1	271						0
				135	0						1
				135	69						0
				135	138						1
				270	0						1
			16QAM	1	1						1
			64QAM	1	1						2.5
			256QAM	1	1						4.5
		CP	QPSK	1	1						1.5

[NR Band n66 Conducted Power]

NR Band n66 _5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						342500	349000	355500	
						1712.5 MHz	1745 MHz	1777.5 MHz	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	24.11	24.13	23.80	0
				1	13	24.11	24.28	23.86	0
				1	23	24.13	24.20	23.85	0
				12	0	23.64	23.75	23.36	0.5
				12	7	24.13	24.24	23.83	0
				12	13	23.66	23.71	23.34	0.5
				25	0	23.68	23.78	23.40	0.5
			QPSK	1	1	24.15	24.16	23.84	0
				1	13	24.17	24.27	23.90	0
				1	23	24.18	24.25	23.88	0
				12	0	23.12	23.28	22.86	1
				12	7	24.12	24.22	23.84	0
				12	13	23.18	23.24	22.89	1
				25	0	23.21	23.26	22.88	1
			16QAM	1	1	22.99	23.08	22.73	1
			64QAM	1	1	21.80	21.79	21.48	2.5
			256QAM	1	1	19.04	19.34	19.05	4.5
		CP	QPSK	1	1	22.56	22.62	22.37	1.5

NR Band n66 _ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						343000	349000	355500	
						1715 MHz	1745 MHz	1775 MHz	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	24.27	24.22	23.99	0
				1	26	24.31	24.30	23.97	0
				1	50	24.28	24.16	23.94	0
				25	0	23.86	23.75	23.48	0.5
				25	14	24.37	24.31	23.98	0
				25	27	23.81	23.82	23.48	0.5
				50	0	23.83	23.78	23.44	0.5
			QPSK	1	1	24.36	24.24	24.00	0
				1	26	24.35	24.34	24.00	0
				1	50	24.31	24.17	23.96	0
				25	0	23.36	23.21	23.02	1
				25	14	24.38	24.30	23.95	0
				25	27	23.35	23.31	22.96	1
				50	0	23.37	23.34	22.99	1
			16QAM	1	1	23.16	23.15	22.89	1
			64QAM	1	1	21.92	21.88	21.63	2.5
			256QAM	1	1	19.11	19.07	18.76	4.5
		CP	QPSK	1	1	22.65	22.68	22.40	1.5

NR Band n66 _ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						343500	349000	354500	
						1717. MHz	1745 MHz	1772.5 MHz	
15 MHz	15	DFT-s	pi/2 BPSK	1	1	24.27	24.20	23.99	0
				1	40	24.25	24.22	24.17	0
				1	77	24.29	24.30	24.00	0
				36	0	23.91	23.98	23.68	0.5
				36	22	24.32	24.23	24.19	0
				36	43	23.80	23.97	23.67	0.5
				75	0	23.88	23.97	23.65	0.5
			QPSK	1	1	24.36	24.25	24.03	0
				1	40	24.31	24.32	24.23	0
				1	77	24.37	24.35	24.04	0
				36	0	23.37	23.22	23.18	1
				36	22	24.34	24.32	24.23	0
				36	43	23.38	23.49	23.14	1
				75	0	23.37	23.23	23.18	1
			16QAM	1	1	23.33	23.18	22.90	1
			64QAM	1	1	21.89	21.77	21.61	2.5
			256QAM	1	1	19.01	18.99	18.82	4.5
		CP	QPSK	1	1	22.62	22.58	22.35	1.5

NR Band n66 _ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						344000	349000	354000	
						1720 MHz	1745 MHz	1770 MHz	
20 MHz	15	DFT-s	pi/2 BPSK	1	1	24.12	23.96	23.76	0
				1	53	24.03	24.13	24.18	0
				1	104	24.07	23.83	23.72	0
				50	0	23.71	23.82	23.61	0.5
				50	28	24.16	24.45	24.17	0
				50	56	23.61	23.83	23.56	0.5
				100	0	23.70	23.84	23.63	0.5
			QPSK	1	1	24.23	24.00	23.84	0
				1	53	24.13	24.12	24.25	0
				1	104	24.16	23.91	23.79	0
				50	0	23.19	23.36	23.12	1
				50	28	24.18	24.47	24.28	0
				50	56	23.21	23.34	23.07	1
				100	0	23.22	23.38	23.14	1
			16QAM	1	1	23.24	22.96	22.81	1
			64QAM	1	1	21.75	21.50	21.37	2.5
			256QAM	1	1	19.06	19.05	18.95	4.5
		CP	QPSK	1	1	22.59	22.63	22.46	1.5

NR Band n66 _ 30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							349000		
							1745 MHz		
30 MHz	15	DFT-s	pi/2 BPSK	1	1		23.78		0
				1	80		23.94		0
				1	158		23.67		0
				80	0		23.47		0.5
				80	40		24.01		0
				80	80		23.43		0.5
				160	0		23.42		0.5
			QPSK	1	1		24.02		0
				1	80		24.17		0
				1	158		23.88		0
				80	0		23.00		1
				80	40		24.03		0
				80	80		22.92		1
				160	0		22.99		1
			16QAM	1	1		22.82		1
			64QAM	1	1		21.57		2.5
			256QAM	1	1		18.32		4.5
		CP	QPSK	1	1		22.32		1.5

NR Band n66 _ 40 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							349000		
							1745 MHz		
40 MHz	15	DFT-s	pi/2 BPSK	1	1		24.34		0
				1	108		24.39		0
				1	214		24.15		0
				108	0		24.00		0.5
				108	54		24.44		0
				108	108		24.00		0.5
				216	0		23.98		0.5
			QPSK	1	1		24.28		0
				1	108		24.34		0
				1	214		24.10		0
				108	0		23.51		1
				108	54		24.50		0
				108	108		23.50		1
				216	0		23.52		1
			16QAM	1	1		23.80		1
			64QAM	1	1		21.80		2.5
			256QAM	1	1		19.78		4.5
		CP	QPSK	1	1		22.95		1.5

[NR Band n71 Conducted Power]

NR Band n71 _ 5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						133100	136100	139100	
						665.5 MHz	680.5 MHz	695.5 MHz	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	24.16	23.58	23.72	0
				1	13	24.10	23.58	23.82	0
				1	23	24.06	23.50	23.74	0
				12	0	23.58	23.08	23.24	0.5
				12	7	24.00	23.53	23.82	0
				12	13	23.55	23.03	23.30	0.5
				25	0	23.57	23.04	23.33	0.5
			QPSK	1	1	24.12	23.62	23.76	0
				1	13	24.07	23.60	23.85	0
				1	23	24.07	23.46	23.74	0
				12	0	23.14	22.56	22.74	1
				12	7	24.03	23.53	23.79	0
				12	13	23.07	22.51	22.82	1
				25	0	23.07	22.58	22.82	1
			16QAM	1	1	23.05	22.58	22.66	1
			64QAM	1	1	21.89	21.33	21.52	2.5
			256QAM	1	1	19.08	18.88	18.68	4.5
		CP	QPSK	1	1	22.14	22.09	22.13	1.5

NR Band n71 _ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						133600	136100	138600	
						668 MHz	680.5 MHz	693 MHz	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	24.13	23.68	23.60	0
				1	26	24.01	23.64	23.71	0
				1	50	23.91	23.57	23.72	0
				25	0	23.50	23.15	23.16	0.5
				25	14	23.97	23.59	23.73	0
				25	27	23.48	23.00	23.28	0.5
				50	0	23.49	23.06	23.22	0.5
			QPSK	1	1	24.13	23.74	23.59	0
				1	26	24.04	23.59	23.72	0
				1	50	23.95	23.60	23.74	0
				25	0	23.08	22.66	22.67	1
				25	14	24.01	23.56	23.72	0
				25	27	22.99	22.55	22.73	1
				50	0	23.03	22.59	22.69	1
			16QAM	1	1	23.00	22.62	22.56	1
			64QAM	1	1	21.87	21.40	21.33	2.5
			256QAM	1	1	18.95	18.62	18.65	4.5
		CP	QPSK	1	1	22.15	22.13	22.09	1.5

NR Band n71 _ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							136100		
							680.5 MHz		
15 MHz	15	DFT-s	pi/2 BPSK	1	1		23.58		0
				1	40		23.43		0
				1	77		23.51		0
				36	0		23.04		0.5
				36	22		23.44		0
				36	43		23.01		0.5
				75	0		22.99		0.5
			QPSK	1	1		23.69		0
				1	40		23.48		0
				1	77		23.58		0
				36	0		22.60		1
				36	22		23.45		0
				36	43		22.48		1
				75	0		22.50		1
			16QAM	1	1		22.56		1
			64QAM	1	1		21.44		2.5
			256QAM	1	1		18.44		4.5
		CP	QPSK	1	1		22.12		1.5

NR Band n71 _ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							136100		
							680.5 MHz		
20 MHz	15	DFT-s	pi/2 BPSK	1	1		23.67		0
				1	53		23.45		0
				1	104		23.56		0
				50	0		23.11		1
				50	28		23.45		0
				50	56		22.99		1
				100	0		22.97		1
			QPSK	1	1		23.85		0
				1	53		23.50		0
				1	104		23.59		0
				50	0		22.63		1
				50	28		23.46		0
				50	56		22.45		1
				100	0		22.52		1
			16QAM	1	1		22.72		1
			64QAM	1	1		21.48		2.5
			256QAM	1	1		18.68		4.5
		CP	QPSK	1	1		22.24		1.5

NR Band n71 at 20 MHz Bandwidth does not support three non-overlapping channels. Per FCC Guidance, 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.

[NR Band n77 Conducted Power] DSI=0,1,2,3,4

NR Band n77_ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647168	650800	654266	657734	661200	664666	
						3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz	
20 MHz	30	DFT-s	pi/2 BPSK	1	1	17.84	17.67	18.01	18.10	18.09	18.33	0
				1	26	17.75	17.60	17.91	18.07	18.02	18.24	0
				1	49	17.71	17.78	18.08	18.14	18.06	18.23	0
				25	0	17.81	17.72	18.02	18.13	18.13	18.28	0
				25	13	17.80	17.69	17.99	18.14	18.08	18.21	0
				25	26	17.82	17.68	18.12	18.17	18.09	18.23	0
				50	0	17.79	17.72	18.01	18.17	18.08	18.27	0
			QPSK	1	1	17.75	17.64	17.96	18.06	18.00	18.27	0
				1	26	17.69	17.53	17.85	18.01	17.97	18.16	0
				1	49	17.63	17.70	17.99	18.08	18.01	18.20	0
				25	0	17.32	17.70	18.04	18.15	18.10	18.26	0
				25	13	17.87	17.70	18.01	18.10	18.06	18.23	0
				25	26	17.81	17.68	18.12	18.14	18.09	18.25	0
				50	0	17.81	17.72	17.85	18.14	18.09	18.27	0
			16QAM	1	1	17.86	17.75	17.70	18.17	18.14	18.33	0
			64QAM	1	1	17.36	17.26	17.55	17.62	17.59	17.84	0
			256QAM	1	1	17.57	17.44	17.75	17.82	17.81	18.00	0
		CP	QPSK	1	1	17.88	17.69	18.00	18.10	18.10	18.31	0

NR Band n77_30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647668	651000	654334	657666	661000	664334	
						3715.02 MHz	3765 MHz	3815.01 MHz	3864.99 MHz	3915 MHz	3964.98 MHz	
30 MHz	30	DFT-s	pi/2 BPSK	1	1	17.78	17.59	17.87	18.22	18.23	18.47	0
				1	39	17.76	17.58	17.88	18.22	18.19	18.35	0
				1	76	17.73	17.77	18.07	18.18	18.28	18.25	0
				36	0	17.74	17.63	17.90	18.34	18.25	18.38	0
				36	21	17.77	17.61	17.91	18.25	18.20	18.35	0
				36	42	17.74	17.74	18.03	18.23	18.25	18.29	0
				75	0	17.79	17.63	17.93	18.28	18.25	18.40	0
			QPSK	1	1	17.69	17.51	17.80	18.15	18.16	18.42	0
				1	39	17.71	17.50	17.79	18.11	18.14	18.29	0
				1	76	17.70	17.70	18.00	18.11	18.21	18.16	0
				36	0	17.78	17.60	17.95	18.31	18.26	18.37	0
				36	21	17.79	17.60	17.90	18.24	18.22	18.34	0
				36	42	17.75	17.75	18.01	18.25	18.28	18.34	0
				75	0	17.81	17.64	17.95	17.52	17.34	18.35	0
			16QAM	1	1	17.79	17.64	17.94	17.36	17.11	18.41	0
			64QAM	1	1	17.32	17.10	17.39	17.76	17.74	18.03	0
			256QAM	1	1	17.49	17.06	17.61	17.93	17.94	18.18	0
		CP	QPSK	1	1	17.76	17.60	17.90	18.24	18.21	18.42	0

NR Band n77_40 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						648000	651200	654400	657600	660800	664000	
						3720 MHz	3768 MHz	3816 MHz	3864 MHz	3912 MHz	3960 MHz	
40 MHz	30	DFT-s	pi/2 BPSK	1	1	18.05	17.67	17.91	18.34	18.39	18.47	0
				1	53	17.71	17.67	17.89	18.22	18.23	18.31	0
				1	104	17.68	17.89	18.19	18.21	18.27	18.36	0
				50	0	17.91	17.65	17.97	18.21	18.37	18.37	0
				50	28	17.74	17.73	17.93	18.25	18.27	18.33	0
				50	56	17.75	17.79	18.06	18.23	18.29	18.38	0
			QPSK	100	0	17.75	17.68	17.97	18.31	18.31	18.37	0
				1	1	17.97	17.60	17.84	18.27	18.36	18.39	0
				1	53	17.65	17.60	17.82	18.15	18.17	18.26	0
				1	104	17.61	17.82	18.16	18.15	18.21	18.27	0
				50	0	17.89	17.66	17.94	18.22	18.37	18.37	0
				50	28	17.77	17.73	17.95	18.26	18.27	18.31	0
				50	56	17.77	17.79	18.06	18.25	18.29	18.34	0
				100	0	17.77	17.65	17.97	18.27	18.34	18.37	0
			16QAM	1	1	18.09	17.70	17.98	18.38	18.45	18.39	0
			64QAM	1	1	17.75	17.44	17.52	17.92	17.91	18.21	0
			256QAM	1	1	17.78	17.41	17.61	18.04	18.09	18.18	0
		CP	QPSK	1	1	18.04	17.67	17.92	18.34	18.33	18.42	0

NR Band n77_50 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						648334	652166	656000		659834	663666	
						3725.01 MHz	3782.49 MHz	3840 MHz		3897.51 MHz	3954.99 MHz	
50 MHz	30	DFT-s	pi/2 BPSK	1	1	17.55	17.45	17.83		17.75	18.13	0
				1	67	17.46	17.61	17.91		17.86	17.99	0
				1	131	17.33	17.69	18.04		17.87	17.89	0
				64	0	17.54	17.58	17.85		17.93	18.11	0
				64	35	17.48	17.64	17.93		17.91	18.01	0
				64	69	17.50	17.57	17.99		17.90	18.00	0
			QPSK	128	0	17.47	17.60	17.91		17.91	18.04	0
				1	1	17.44	17.41	17.78		17.69	18.07	0
				1	67	17.40	17.51	17.82		17.75	17.92	0
				1	131	17.28	17.61	17.95		17.82	17.83	0
				64	0	17.53	17.57	17.86		17.94	18.11	0
				64	35	17.46	17.64	17.93		17.31	18.01	0
				64	69	17.47	17.56	18.00		17.33	17.98	0
				128	0	17.43	17.61	17.90		17.92	18.02	0
			16QAM	1	1	17.58	17.45	17.76		17.80	18.23	0
			64QAM	1	1	17.61	17.46	17.30		17.31	17.73	0
			256QAM	1	1	17.28	17.20	17.52		17.45	17.90	0
		CP	QPSK	1	1	17.52	17.47	17.82		17.74	18.19	0

NR Band n77_60 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						648668	653556			658444	663332	
						3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz	
60 MHz	30	DFT-s	pi/2 BPSK	1	1	17.57	17.50			17.31	17.43	0
				1	81	17.42	17.71			17.78	17.85	0
				1	160	17.28	17.80			17.47	17.33	0
				81	0	17.61	17.66			17.59	17.75	0
				81	41	17.45	17.74			17.76	17.86	0
				81	81	17.41	17.82			17.78	17.72	0
				162	0	17.50	17.74			17.65	17.72	0
			QPSK	1	1	17.50	17.44			17.29	17.33	0
				1	81	17.36	17.64			17.74	17.84	0
				1	160	17.22	17.78			17.48	17.28	0
				81	0	17.64	17.66			17.60	17.77	0
				81	41	17.46	17.52			17.78	17.88	0
				81	81	17.44	17.82			17.78	17.71	0
				162	0	17.49	17.73			17.63	17.73	0
			16QAM	1	1	17.39	17.55			17.71	17.46	0
			64QAM	1	1	17.13	17.08			17.55	17.39	0
			256QAM	1	1	17.29	17.26			17.05	17.11	0
		CP	QPSK	1	1	17.60	17.55			17.35	17.42	0

NR Band n77_70 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						649000	654334			658334	663000	
						3735 MHz	3805.01 MHz			3875.01 MHz	3945 MHz	
70 MHz	30	DFT-s	pi/2 BPSK	1	1	17.46	17.34			17.64	17.78	0
				1	95	17.30	17.64			17.77	17.86	0
				1	187	17.22	17.84			17.90	17.84	0
				90	0	17.35	17.49			17.76	17.89	0
				90	50	17.31	17.64			17.78	17.88	0
				90	99	17.23	17.78			17.93	17.85	0
				180	0	17.30	17.63			17.78	17.87	0
			QPSK	1	1	17.38	17.27			17.56	17.74	0
				1	95	17.24	17.57			17.73	17.78	0
				1	187	17.15	17.78			17.83	17.80	0
				90	0	17.38	17.48			17.76	17.90	0
				90	50	17.34	17.63			17.80	17.88	0
				90	99	17.26	17.61			17.92	17.88	0
				180	0	17.25	17.51			17.80	17.78	0
			16QAM	1	1	17.48	17.40			17.55	17.58	0
			64QAM	1	1	17.00	17.33			17.21	17.32	0
			256QAM	1	1	17.19	17.07			17.35	17.48	0
		CP	QPSK	1	1	17.42	17.34			17.63	17.83	0

NR Band n77_ 80 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						649334		656000		662666		
						3740.01 MHz		3840 MHz		3939.99 MHz		
80 MHz	30	DFT-s	pi/2 BPSK	1	1	17.51		17.53		17.86		0
				1	109	17.35		17.77		17.93		0
				1	215	17.13		17.89		17.77		0
				108	0	17.48		17.66		17.88		0
				108	55	17.33		17.76		17.93		0
				108	109	17.23		17.83		17.85		0
			QPSK	216	0	17.35		17.75		17.90		0
				1	1	17.45		17.47		17.81		0
				1	109	17.28		17.66		17.86		0
				1	215	17.05		17.83		17.72		0
				108	0	17.49		17.69		17.91		0
				108	55	17.35		17.78		17.95		0
				108	109	17.23		17.66		17.90		0
				216	0	17.25		17.60		17.76		0
			16QAM	1	1	17.58		17.54		17.06		0
			64QAM	1	1	17.10		17.03		17.43		0
			256QAM	1	1	17.26		17.25		17.60		0
		CP	QPSK	1	1	17.54		17.58		17.87		0

NR Band n77_ 90 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						649668		656000		662332		
						3745.02 MHz		3840 MHz		3934.98 MHz		
90 MHz	30	DFT-s	pi/2 BPSK	1	1	17.42		17.48		17.87		0
				1	123	17.30		17.70		17.94		0
				1	243	17.36		17.85		17.61		0
				120	0	17.37		17.59		17.94		0
				120	63	17.29		17.70		17.92		0
				120	125	17.23		17.76		17.72		0
			QPSK	243	0	17.30		17.74		17.88		0
				1	1	17.38		17.33		17.84		0
				1	123	17.21		17.62		17.85		0
				1	243	17.26		17.84		17.56		0
				120	0	17.35		17.61		17.92		0
				120	63	17.31		17.75		17.92		0
				120	125	17.23		17.64		17.74		0
				243	0	17.31		17.34		17.79		0
			16QAM	1	1	17.50		17.48		17.44		0
			64QAM	1	1	16.97		16.99		17.43		0
			256QAM	1	1	17.15		17.16		17.63		0
		CP	QPSK	1	1	17.43		17.46		17.89		0

NR Band n77_ 100 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						650000		656000		662000		
						3750 MHz		3840 MHz		3930 MHz		
100 MHz	30	DFT-s	pi/2 BPSK	1	1	17.77		17.32		17.45		0
				1	137	17.89		17.72		17.21		0
				1	271	17.76		17.87		17.19		0
				135	0	17.83		17.64		17.30		0
				135	69	17.91		17.71		17.26		0
				135	138	17.79		17.80		17.16		0
				270	0	17.86		17.71		17.27		0
			QPSK	1	1	17.75		17.82		17.41		0
				1	137	17.71		17.64		17.12		0
				1	271	17.87		17.26		17.10		0
				135	0	17.87		17.61		17.32		0
				135	69	17.95		17.71		17.30		0
				135	138	17.83		17.79		17.15		0
				270	0	17.89		17.72		17.30		0
			16QAM	1	1	17.84		17.38		17.25		0
			64QAM	1	1	17.77		17.31		17.31		0
			256QAM	1	1	17.49		17.04		17.18		0
		CP	QPSK	1	1	17.81		17.34		17.48		0

[NR Band n77 DoD Conducted Power] DSI=0,1,2,3,4

Band n77_20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630668	633334	636000	
						3460.02 MHz	3500.01 MHz	3540 MHz	
20 MHz	30	DFT-s	pi/2 BPSK	1	1	18.15	17.88	17.89	0
				1	26	17.99	17.80	17.75	0
				1	49	17.86	17.78	17.81	0
				25	0	18.02	17.82	17.83	0
				25	13	17.99	17.82	17.75	0
				25	26	18.01	17.78	17.80	0
				50	0	18.03	17.85	17.79	0
			QPSK	1	1	18.08	17.79	17.81	0
				1	26	17.90	17.75	17.66	0
				1	49	17.82	17.72	17.73	0
				25	0	18.05	17.84	17.83	0
				25	13	18.00	17.85	17.76	0
				25	26	18.01	17.77	17.79	0
				50	0	18.03	17.83	17.79	0
			16QAM	1	1	18.16	17.89	17.91	0
			64QAM	1	1	17.68	17.39	17.44	0
			256QAM	1	1	17.81	17.57	17.64	0
		CP	QPSK	1	1	18.07	17.84	17.90	0

Band n77_30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631000	633334	635666	
						3465 MHz	3500.01 MHz	3534.99 MHz	
30 MHz	30	DFT-s	pi/2 BPSK	1	1	18.05	17.73	17.79	0
				1	39	17.86	17.68	17.63	0
				1	76	17.74	17.68	17.71	0
				36	0	17.87	17.70	17.70	0
				36	21	17.85	17.67	17.63	0
				36	42	17.87	17.66	17.69	0
				75	0	17.92	17.73	17.66	0
			QPSK	1	1	17.93	17.66	17.70	0
				1	39	17.79	17.65	17.54	0
				1	76	17.70	17.58	17.60	0
				36	0	17.91	17.73	17.69	0
				36	21	17.88	17.75	17.63	0
				36	42	17.87	17.65	17.64	0
				75	0	17.91	17.72	17.66	0
			16QAM	1	1	18.02	17.75	17.76	0
			64QAM	1	1	17.58	17.27	17.29	0
			256QAM	1	1	17.66	17.44	17.53	0
		CP	QPSK	1	1	17.97	17.73	17.75	0

Band n77_40 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631334		635332	
						3470.01 MHz		3529.98 MHz	
40 MHz	30	DFT-s	pi/2 BPSK	1	1	18.15		17.24	0
				1	53	17.81		17.49	0
				1	104	17.99		17.26	0
				50	0	18.04		17.39	0
				50	28	17.87		17.51	0
				50	56	17.95		17.45	0
				100	0	17.92		17.44	0
			QPSK	1	1	18.11		17.22	0
				1	53	17.77		17.43	0
				1	104	17.97		17.20	0
				50	0	18.07		17.40	0
				50	28	17.90		17.53	0
				50	56	17.94		17.48	0
				100	0	17.94		17.44	0
			16QAM	1	1	18.20		17.31	0
			64QAM	1	1	17.56		17.26	0
			256QAM	1	1	17.88		17.01	0
		CP	QPSK	1	1	18.14		17.25	0

Band n77_50 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631668		635000	
						3475.02 MHz		3525 MHz	
50 MHz	30	DFT-s	pi/2 BPSK	1	1	17.46		17.54	0
				1	67	17.39		17.48	0
				1	131	17.59		17.58	0
				64	0	17.47		17.56	0
				64	35	17.44		17.38	0
				64	69	17.43		17.45	0
				128	0	17.50		17.39	0
			QPSK	1	1	17.55		17.45	0
				1	67	17.48		17.56	0
				1	131	17.43		17.45	0
				64	0	17.41		17.43	0
				64	35	17.55		17.51	0
				64	69	17.54		17.60	0
				128	0	17.56		17.51	0
			16QAM	1	1	17.62		17.67	0
			64QAM	1	1	17.47		17.29	0
			256QAM	1	1	17.29		17.23	0
		CP	QPSK	1	1	17.44		17.25	0

Band n77_60 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 MHz		
60 MHz	30	DFT-s	pi/2 BPSK	1	1		17.67		0
				1	81		17.68		0
				1	160		17.61		0
				81	0		17.65		0
				81	41		17.67		0
				81	81		17.58		0
				162	0		17.66		0
			QPSK	1	1		17.59		0
				1	81		17.62		0
				1	160		17.53		0
				81	0		17.61		0
				81	41		17.67		0
				81	81		17.61		0
				162	0		17.65		0
			16QAM	1	1		17.70		0
			64QAM	1	1		17.72		0
			256QAM	1	1		17.42		0
		CP	QPSK	1	1		17.68		0

Band n77_70 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 MHz		
70 MHz	30	DFT-s	pi/2 BPSK	1	1		17.58		0
				1	95		17.42		0
				1	187		17.66		0
				90	0		17.47		0
				90	50		17.46		0
				90	99		17.40		0
				180	0		17.53		0
			QPSK	1	1		17.45		0
				1	95		17.53		0
				1	187		17.44		0
				90	0		17.57		0
				90	50		17.54		0
				90	99		17.57		0
				180	0		17.61		0
			16QAM	1	1		17.58		0
			64QAM	1	1		17.39		0
			256QAM	1	1		17.40		0
		CP	QPSK	1	1		17.44		0

Band n77_80 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 MHz		
80 MHz	30	DFT-s	pi/2 BPSK	1	1		17.53		0
				1	109		17.45		0
				1	215		17.50		0
				108	0		17.56		0
				108	55		17.48		0
				108	109		17.46		0
				216	0		17.51		0
			QPSK	1	1		17.47		0
				1	109		17.35		0
				1	215		17.44		0
				108	0		17.58		0
				108	55		17.50		0
				108	109		17.48		0
				216	0		17.39		0
			16QAM	1	1		17.56		0
			64QAM	1	1		17.06		0
			256QAM	1	1		17.26		0
		CP	QPSK	1	1		17.51		0

Band n77_90 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 MHz		
90 MHz	30	DFT-s	pi/2 BPSK	1	1		17.61		0
				1	123		17.42		0
				1	243		17.52		0
				120	0		17.47		0
				120	63		17.57		0
				120	125		17.38		0
				243	0		17.57		0
			QPSK	1	1		17.42		0
				1	123		17.64		0
				1	243		17.45		0
				120	0		17.47		0
				120	63		17.42		0
				120	125		17.46		0
				243	0		17.60		0
			16QAM	1	1		17.58		0
			64QAM	1	1		17.46		0
			256QAM	1	1		17.39		0
		CP	QPSK	1	1		17.42		0

Band n77_100 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 MHz		
100 MHz	30	DFT-s	pi/2 BPSK	1	1		17.57		0
				1	137		17.42		0
				1	271		17.59		0
				135	0		17.53		0
				135	69		17.48		0
				135	138		17.46		0
				270	0		17.48		0
			QPSK	1	1		17.52		0
				1	137		17.54		0
				1	271		17.36		0
				135	0		17.48		0
				135	69		17.49		0
				135	138		17.56		0
				270	0		17.51		0
			16QAM	1	1		17.64		0
			64QAM	1	1		17.39		0
			256QAM	1	1		17.31		0
		CP	QPSK	1	1		17.51		0

[NR Band n77 Conducted Power] – Antenna : SRS

NR Band n77_100 MHz Bandwidth - Antenna : SRS 1_Sub #5

Bandwidth	SCS(kHz)	Modulation	Max. Average Power (dBm)						MPR [dB]
			650000				662000		
			3750 MHz				3930 MHz		
100 MHz	30	pi/2 BPSK	14.33				14.25		0

NR Band n77_100 MHz Bandwidth - Antenna : SRS 2_Main #2

Bandwidth	SCS(kHz)	Modulation	Max. Average Power (dBm)						MPR [dB]
			650000				662000		
			3750 MHz				3930 MHz		
100 MHz	30	pi/2 BPSK	16.29				16.81		0

NR Band n77_100 MHz Bandwidth - Antenna : SRS 3

Bandwidth	SCS(kHz)	Modulation	Max. Average Power (dBm)						MPR [dB]
			650000				662000		
			3750 MHz				3930 MHz		
100 MHz	30	pi/2 BPSK	16.21				16.15		0

[NR Band n77 DoD Conducted Power]

NR Band n77_ 100 MHz Bandwidth - Antenna : SRS 1

Bandwidth	SCS(kHz)	Modulation	Max. Average Power (dBm)			MPR [dB]
				633334		
				3500 MHz		
100 MHz	30	pi/2 BPSK		14.92		0

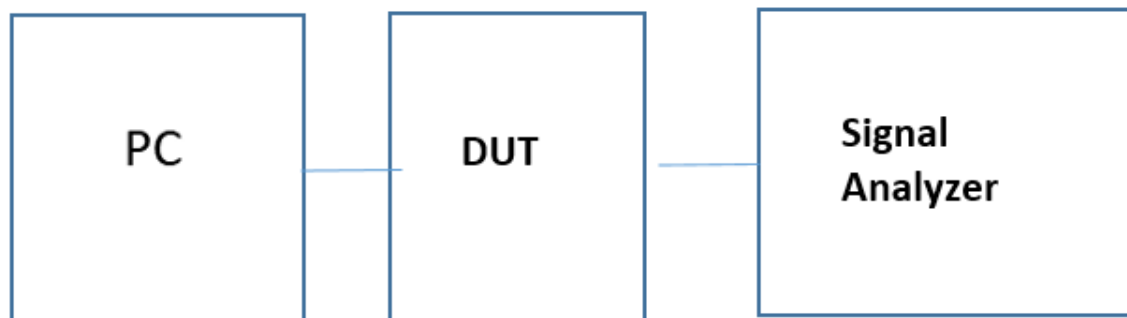
NR Band n77_ 100 MHz Bandwidth - Antenna : SRS 2

Bandwidth	SCS(kHz)	Modulation	Max. Average Power (dBm)			MPR [dB]
				633334		
				3500 MHz		
100 MHz	30	pi/2 BPSK		16.5		0

NR Band n77_ 100 MHz Bandwidth - Antenna : SRS 3

Bandwidth	SCS(kHz)	Modulation	Max. Average Power (dBm)			MPR [dB]
				633334		
				3500 MHz		
100 MHz	30	pi/2 BPSK		17.7		0

Power Measurement Set Up NR TDD



11.4.2 NR FDD Bands Conducted Power for Hotspot activated

[NR Band n2 Conducted Power]

NR Band n2 _ 5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						370500	376000	381500	
						1852.5 MHz	1880 MHz	1907.5 MHz	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	21.04	21.30	21.26	0
				1	13	20.98	21.35	21.19	0
				1	23	20.92	21.30	21.19	0
				12	0	21.04	21.40	21.26	0
				12	7	20.97	21.34	21.19	0
				12	13	20.89	21.32	21.16	0
				25	0	20.93	21.36	21.29	0
			QPSK	1	1	21.04	21.34	21.31	0
				1	13	20.98	21.36	21.26	0
				1	23	20.93	21.30	21.18	0
				12	0	21.07	21.45	21.27	0
				12	7	20.98	21.38	21.20	0
				12	13	20.94	21.29	21.18	0
				25	0	21.01	21.41	21.26	0
			16QAM	1	1	21.02	21.29	21.20	0
			64QAM	1	1	21.22	21.49	21.39	0
			256QAM	1	1	18.55	18.35	18.64	1.5
		CP	QPSK	1	1	21.15	21.32	21.35	0

NR Band n2 _ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						371000	376000	381000	
						1855 MHz	1880 MHz	1905 MHz	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	21.17	21.35	21.43	0
				1	26	21.08	21.42	21.31	0
				1	50	21.00	21.35	21.25	0
				25	0	21.17	21.37	21.46	0
				25	14	21.07	21.36	21.30	0
				25	27	21.04	21.35	21.26	0
				50	0	21.09	21.37	21.43	0
			QPSK	1	1	21.18	21.35	21.44	0
				1	26	21.09	21.43	21.29	0
				1	50	21.02	21.36	21.27	0
				25	0	21.14	21.36	21.46	0
				25	14	21.12	21.43	21.30	0
				25	27	21.09	21.40	21.25	0
				50	0	21.13	21.42	21.42	0
			16QAM	1	1	21.10	21.36	21.43	0
			64QAM	1	1	21.35	21.23	21.32	0
			256QAM	1	1	18.68	18.92	18.95	1.5
		CP	QPSK	1	1	21.25	21.40	21.42	0

NR Band n2 _ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						371500	376000	380500	
						1857.5 MHz	1880 MHz	1902.5 MHz	
15 MHz	15	DFT-s	pi/2 BPSK	1	1	21.07	21.29	21.23	0
				1	40	20.97	21.34	21.24	0
				1	77	21.16	21.27	21.21	0
				36	0	20.97	21.32	21.23	0
				36	22	20.98	21.30	21.19	0
				36	43	21.08	21.33	21.25	0
				75	0	21.02	21.36	21.26	0
			QPSK	1	1	21.08	21.32	21.30	0
				1	40	20.98	21.39	21.24	0
				1	77	21.18	21.35	21.27	0
				36	0	21.02	21.37	21.27	0
				36	22	20.95	21.34	21.23	0
				36	43	21.04	21.31	21.22	0
				75	0	21.00	21.37	21.29	0
			16QAM	1	1	21.06	21.37	21.25	0
			64QAM	1	1	21.25	21.46	21.24	0
			256QAM	1	1	19.03	18.82	18.28	1.5
		CP	QPSK	1	1	21.23	21.45	21.48	0

NR Band n2 _ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						372000	376000	380000	
						1860 MHz	1880 MHz	1900 MHz	
20 MHz	15	DFT-s	pi/2 BPSK	1	1	20.96	21.21	21.26	0
				1	53	21.00	21.32	21.27	0
				1	104	21.21	21.26	21.18	0
				50	0	20.98	21.21	21.34	0
				50	28	21.12	21.31	21.26	0
				50	56	21.17	21.33	21.30	0
				100	0	21.15	21.39	21.31	0
			QPSK	1	1	21.03	21.22	21.31	0
				1	53	21.07	21.37	21.28	0
				1	104	21.21	21.30	21.26	0
				50	0	21.01	21.31	21.28	0
				50	28	21.08	21.40	21.33	0
				50	56	21.15	21.31	21.26	0
				100	0	21.12	21.43	21.34	0
			16QAM	1	1	20.96	21.20	21.22	0
			64QAM	1	1	21.16	21.36	21.38	0
			256QAM	1	1	18.54	18.68	18.76	1.5
		CP	QPSK	1	1	21.03	21.31	21.34	0

[NR Band n25 Conducted Power]

NR Band n25 _ 5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						370500	376500	382500	
						1852.5 MHz	1882.5 MHz	1912.5 MHz	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	21.08	21.34	21.22	0
				1	13	20.97	21.28	21.23	0
				1	23	21.03	21.33	21.24	0
				12	0	20.98	21.31	21.27	0
				12	7	20.96	21.28	21.25	0
				12	13	20.95	21.28	21.33	0
			QPSK	25	0	20.96	21.28	21.32	0
				1	1	21.07	21.39	21.31	0
				1	13	20.99	21.31	21.29	0
				1	23	21.03	21.32	21.28	0
				12	0	20.99	21.35	21.28	0
				12	7	20.99	21.30	21.26	0
				12	13	21.01	21.33	21.31	0
				25	0	20.99	21.35	21.29	0
			16QAM	1	1	21.04	21.30	21.24	0
			64QAM	1	1	21.23	21.42	21.45	0
			256QAM	1	1	18.57	18.85	18.83	1.5
		CP	QPSK	1	1	21.17	21.41	21.39	0

NR Band n25 _ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						371000	376500	382000	
						1855 MHz	1882.5 MHz	1910 MHz	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	21.11	21.20	21.29	0
				1	26	21.02	21.30	21.25	0
				1	50	21.03	21.24	21.29	0
				25	0	21.09	21.36	21.36	0
				25	14	21.06	21.34	21.36	0
				25	27	21.06	21.29	21.37	0
			QPSK	50	0	21.06	21.30	21.46	0
				1	1	21.10	21.21	21.34	0
				1	26	21.06	21.32	21.32	0
				1	50	21.05	21.25	21.33	0
				25	0	21.11	21.33	21.34	0
				25	14	21.10	21.34	21.32	0
				25	27	21.06	21.35	21.34	0
				50	0	21.13	21.38	21.35	0
			16QAM	1	1	21.05	21.20	21.25	0
			64QAM	1	1	21.29	21.39	21.47	0
			256QAM	1	1	19.03	19.29	18.79	1.5
		CP	QPSK	1	1	21.23	21.25	21.23	0

NR Band n25 _ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						371500	376500	381500	
						1857.5 MHz	1882.5 MHz	1907.5 MHz	
15 MHz	15	DFT-s	pi/2 BPSK	1	1	21.06	21.35	21.27	0
				1	40	21.00	21.21	21.20	0
				1	77	21.15	21.25	21.25	0
				36	0	20.97	21.30	21.30	0
				36	22	21.09	21.27	21.36	0
				36	43	21.08	21.29	21.39	0
				75	0	21.10	21.25	21.41	0
			QPSK	1	1	21.08	21.34	21.35	0
				1	40	21.05	21.24	21.27	0
				1	77	21.16	21.27	21.29	0
				36	0	21.00	21.29	21.34	0
				36	22	21.08	21.26	21.30	0
				36	43	21.10	21.29	21.33	0
				75	0	21.11	21.32	21.33	0
			16QAM	1	1	21.02	21.32	21.26	0
			64QAM	1	1	21.21	21.43	21.23	0
			256QAM	1	1	18.82	19.24	19.27	1.5
		CP	QPSK	1	1	21.25	21.22	21.23	0

NR Band n25 _ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						372000	376500	381000	
						1860 MHz	1882.5 MHz	1905 MHz	
20 MHz	15	DFT-s	pi/2 BPSK	1	1	20.99	21.19	21.31	0
				1	53	20.97	21.23	21.24	0
				1	104	21.12	21.21	21.27	0
				50	0	20.97	21.26	21.38	0
				50	28	21.11	21.28	21.34	0
				50	56	21.16	21.32	21.44	0
				100	0	21.15	21.28	21.37	0
			QPSK	1	1	20.97	21.23	21.38	0
				1	53	21.04	21.25	21.30	0
				1	104	21.16	21.25	21.29	0
				50	0	21.00	21.38	21.42	0
				50	28	21.08	21.31	21.37	0
				50	56	21.15	21.26	21.34	0
				100	0	21.10	21.35	21.42	0
			16QAM	1	1	20.91	21.20	21.30	0
			64QAM	1	1	21.11	21.36	21.43	0
			256QAM	1	1	18.50	18.75	19.05	1.5
		CP	QPSK	1	1	21.22	21.25	21.24	0

NR Band n25 _ 25 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						372500		380500	
						1862.5 MHz		1902.5 MHz	
25 MHz	15	DFT-s	pi/2 BPSK	1	1	21.22		21.16	0
				1	66	21.31		21.10	0
				1	131	21.48		21.11	0
				64	0	21.34		21.32	0
				64	35	21.39		21.22	0
				64	69	21.46		21.29	0
			QPSK	128	0	21.47		21.23	0
				1	1	21.13		21.10	0
				1	66	21.20		20.98	0
				1	131	21.35		21.03	0
				64	0	21.34		21.30	0
				64	35	21.42		21.26	0
				64	69	21.46		21.27	0
				128	0	21.43		21.32	0
			16QAM	1	1	21.54		21.51	0
			64QAM	1	1	21.51		21.44	0
			256QAM	1	1	18.91		19.02	1.5
		CP	QPSK	1	1	21.14		21.12	0

NR Band n25 _ 30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						373000		380000	
						1865 MHz		1900 MHz	
30 MHz	15	DFT-s	pi/2 BPSK	1	1	21.28		21.18	0
				1	80	21.35		21.15	0
				1	158	21.53		21.10	0
				80	0	21.40		21.40	0
				80	40	21.44		21.34	0
				80	80	21.57		21.29	0
			QPSK	160	0	21.51		21.41	0
				1	1	21.18		21.15	0
				1	80	21.23		21.12	0
				1	158	21.43		21.02	0
				80	0	21.43		21.37	0
				80	40	21.49		21.32	0
				80	80	21.61		21.29	0
				160	0	21.52		21.42	0
			16QAM	1	1	21.64		21.57	0
			64QAM	1	1	21.51		21.55	0
			256QAM	1	1	19.06		19.03	1.5
		CP	QPSK	1	1	21.20		21.11	0

NR Band n25 _ 40 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							376500		
							1882.5 MHz		
40 MHz	15	DFT-s	pi/2 BPSK	1	1		21.02		0
				1	108		21.28		0
				1	214		21.16		0
				108	0		21.30		0
				108	54		21.38		0
				108	108		21.37		0
				216	0		21.33		0
			QPSK	1	1		20.95		0
				1	108		21.17		0
				1	214		21.02		0
				108	0		21.31		0
				108	54		21.40		0
				108	108		21.32		0
				216	0		21.34		0
			16QAM	1	1		21.36		0
			64QAM	1	1		21.22		0
			256QAM	1	1		19.07		1.5
		CP	QPSK	1	1		20.93		0

[NR Band n30 Conducted Power]

NR Band n30_ 5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							462000		
							2310 MHz		
5 MHz	15	DFT-s	pi/2 BPSK	1	1		21.14		0
				1	13		21.18		0
				1	23		21.12		0
				12	0		21.12		0
				12	7		21.18		0
				12	13		21.16		0
				25	0		21.15		0
			QPSK	1	1		21.17		0
				1	13		21.19		0
				1	23		21.10		0
				12	0		21.15		0
				12	7		21.17		0
				12	13		21.16		0
				25	0		21.11		0
			16QAM	1	1		21.17		0
			64QAM	1	1		20.78		0
			256QAM	1	1		18.11		1.5
		CP	QPSK	1	1		21.12		0

NR Band n30_ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							462000		
							2310 MHz		
10 MHz	15	DFT-s	pi/2 BPSK	1	1		21.19		0
				1	26		21.16		0
				1	50		21.09		0
				25	0		21.17		0
				25	14		21.17		0
				25	27		21.13		0
				50	0		21.13		0
			QPSK	1	1		21.21		0
				1	26		21.15		0
				1	50		21.09		0
				25	0		21.15		0
				25	14		21.16		0
				25	27		21.14		0
				50	0		21.14		0
			16QAM	1	1		21.20		0
			64QAM	1	1		20.89		0
			256QAM	1	1		18.01		1.5
		CP	QPSK	1	1		21.23		0

[NR Band n66 Conducted Power]

NR Band n66 _5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						342500	349000	355500	
						1712.5 MHz	1745 MHz	1777.5 MHz	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	21.04	21.04	21.02	0
				1	13	21.05	21.16	21.32	0
				1	23	21.04	21.12	21.22	0
				12	0	21.03	21.13	21.05	0
				12	7	21.02	21.16	21.22	0
				12	13	21.08	21.16	21.03	0
			QPSK	25	0	21.07	21.15	21.30	0
				1	1	21.08	21.05	21.20	0
				1	13	21.10	21.17	21.11	0
				1	23	21.09	21.16	21.13	0
				12	0	21.04	21.13	21.15	0
				12	7	21.06	21.13	21.16	0
				12	13	21.08	21.16	21.06	0
				25	0	21.10	21.15	21.04	0
			16QAM	1	1	20.97	20.99	20.92	0
			64QAM	1	1	21.03	21.24	21.42	0
			256QAM	1	1	19.02	19.32	19.15	1.5
		CP	QPSK	1	1	21.11	21.20	20.95	0

NR Band n66 _10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						343000	349000	355000	
						1715 MHz	1745 MHz	1775 MHz	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	21.12	21.06	20.81	0
				1	26	21.14	21.18	20.83	0
				1	50	21.13	21.02	20.81	0
				25	0	21.20	21.11	20.87	0
				25	14	21.21	21.23	20.82	0
				25	27	21.18	21.19	20.86	0
			QPSK	50	0	21.19	21.17	20.82	0
				1	1	21.21	21.09	20.85	0
				1	26	21.19	21.21	20.87	0
				1	50	21.17	21.06	20.84	0
				25	0	21.21	21.13	20.87	0
				25	14	21.23	21.20	20.85	0
				25	27	21.18	21.21	20.87	0
				50	0	21.18	21.17	20.81	0
			16QAM	1	1	21.10	21.04	20.78	0
			64QAM	1	1	21.23	21.25	21.00	0
			256QAM	1	1	19.23	19.33	19.42	1.5
		CP	QPSK	1	1	21.22	21.18	20.91	0

NR Band n66 _ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						343500	349000	354500	
						1717.5 MHz	1745 MHz	1772.5 MHz	
15 MHz	15	DFT-s	pi/2 BPSK	1	1	21.15	21.07	20.78	0
				1	40	21.12	21.03	20.71	0
				1	77	21.17	21.11	20.81	0
				36	0	21.25	21.14	20.79	0
				36	22	21.21	21.10	20.70	0
				36	43	21.20	21.13	20.80	0
				75	0	21.23	21.13	20.78	0
			QPSK	1	1	21.22	21.07	20.87	0
				1	40	21.15	21.07	20.78	0
				1	77	21.22	21.18	20.87	0
				36	0	21.20	21.17	20.85	0
				36	22	21.17	21.09	20.80	0
				36	43	21.20	21.15	20.81	0
				75	0	21.21	21.15	20.81	0
			16QAM	1	1	21.20	21.01	20.73	0
			64QAM	1	1	21.07	21.09	20.96	0
			256QAM	1	1	19.65	19.45	19.61	1.5
		CP	QPSK	1	1	21.25	21.22	20.88	0

NR Band n66 _ 20 MHz Bandwidth

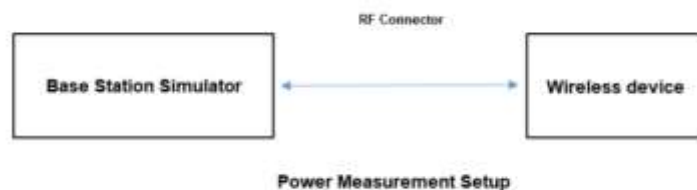
Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						343500	349000	354500	
						1717.5 MHz	1745 MHz	1772.5 MHz	
20 MHz	15	DFT-s	pi/2 BPSK	1	1	21.15	21.06	20.87	0
				1	53	21.05	21.02	20.74	0
				1	104	21.07	20.95	20.81	0
				50	0	21.18	21.13	20.87	0
				50	28	21.14	21.10	20.81	0
				50	56	21.09	21.14	20.83	0
				100	0	21.14	21.12	20.88	0
			QPSK	1	1	21.17	21.12	20.91	0
				1	53	21.09	21.08	20.81	0
				1	104	21.11	21.03	20.84	0
				50	0	21.15	21.14	20.89	0
				50	28	21.14	21.13	20.93	0
				50	56	21.15	21.11	20.86	0
				100	0	21.13	21.14	20.92	0
			16QAM	1	1	21.11	21.01	20.84	0
			64QAM	1	1	21.20	21.20	21.16	0
			256QAM	1	1	19.65	19.64	19.43	1.5
		CP	QPSK	1	1	21.34	21.25	21.23	0

NR Band n66 _ 30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]		MPR [dB]
							349000 1745 MHz	
30 MHz	15	DFT-s	pi/2 BPSK	1	1		20.74	0
				1	80		20.91	0
				1	158		20.62	0
				80	0		20.75	0
				80	40		20.84	0
				80	80		20.74	0
				160	0		20.73	0
			QPSK	1	1		20.80	0
				1	80		20.97	0
				1	158		20.69	0
				80	0		20.83	0
				80	40		20.82	0
				80	80		20.71	0
				160	0		20.77	0
			16QAM	1	1		20.72	0
			64QAM	1	1		20.91	0
			256QAM	1	1		19.56	1.5
		CP	QPSK	1	1		21.25	0

NR Band n66 _ 40 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]		MPR [dB]
							349000 1745 MHz	
40 MHz	15	DFT-s	pi/2 BPSK	1	1		21.51	0
				1	108		21.53	0
				1	214		21.29	0
				108	0		21.60	0
				108	54		21.56	0
				108	108		21.59	0
			QPSK	216	0		21.57	0
				1	1		21.39	0
				1	108		21.43	0
				1	214		21.19	0
				108	0		21.59	0
				108	54		21.54	0
				108	108		21.57	0
				216	0		21.60	0
			16QAM	1	1		21.79	0
			64QAM	1	1		21.32	0
			256QAM	1	1		19.76	1.5
		CP	QPSK	1	1		21.50	0



11.4.3 NR FDD Bands Conducted Power for Grip sensor [NR Band n2 Conducted Power]

NR Band n2 _ 5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						370500	376000	381500	
						1852.5 MHz	1880 MHz	1907.5 MHz	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	21.20	21.32	21.29	0
				1	13	21.34	21.29	21.33	0
				1	23	21.33	21.32	21.39	0
				12	0	21.34	21.43	21.47	0
				12	7	21.34	21.24	21.32	0
				12	13	21.28	21.42	21.36	0
				25	0	21.43	21.38	21.36	0
			QPSK	1	1	21.43	21.31	21.32	0
				1	13	21.44	21.34	21.27	0
				1	23	21.37	21.25	21.39	0
				12	0	21.47	21.47	21.35	0
				12	7	21.47	21.29	21.36	0
				12	13	21.29	21.23	21.38	0
				25	0	21.47	21.41	21.45	0
			16QAM	1	1	21.39	21.30	21.37	0
			64QAM	1	1	21.22	21.45	21.48	0
			256QAM	1	1	18.39	18.45	18.28	1.5
		CP	QPSK	1	1	21.33	21.22	21.34	0

NR Band n2 _ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						371000	376000	381000	
						1855 MHz	1880 MHz	1905 MHz	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	21.39	21.40	21.35	0
				1	26	21.41	21.40	21.27	0
				1	50	21.40	21.33	21.36	0
				25	0	21.30	21.32	21.45	0
				25	14	21.43	21.35	21.29	0
				25	27	21.22	21.29	21.23	0
				50	0	21.41	21.30	21.30	0
			QPSK	1	1	21.25	21.36	21.34	0
				1	26	21.40	21.32	21.44	0
				1	50	21.36	21.22	21.22	0
				25	0	21.47	21.37	21.46	0
				25	14	21.29	21.31	21.33	0
				25	27	21.29	21.33	21.31	0
				50	0	21.41	21.43	21.40	0
			16QAM	1	1	21.23	21.21	21.22	0
			64QAM	1	1	21.39	21.44	21.32	0
			256QAM	1	1	18.27	18.35	18.44	1.5
		CP	QPSK	1	1	21.32	21.29	21.41	0

NR Band n2 _ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						371500	376000	380500	
						1857.5 MHz	1880 MHz	1902.5 MHz	
15 MHz	15	DFT-s	pi/2 BPSK	1	1	21.31	21.35	21.34	0
				1	40	21.26	21.41	21.30	0
				1	77	21.27	21.26	21.30	0
				36	0	21.42	21.38	21.38	0
				36	22	21.27	21.27	21.36	0
				36	43	21.27	21.35	21.24	0
				75	0	21.38	21.42	21.45	0
			QPSK	1	1	21.35	21.41	21.42	0
				1	40	21.45	21.28	21.32	0
				1	77	21.36	21.26	21.31	0
				36	0	21.43	21.45	21.43	0
				36	22	21.39	21.47	21.47	0
				36	43	21.24	21.21	21.26	0
				75	0	21.45	21.33	21.40	0
			16QAM	1	1	21.36	21.30	21.31	0
			64QAM	1	1	21.42	21.47	21.49	0
			256QAM	1	1	18.45	18.29	18.42	1.5
		CP	QPSK	1	1	21.31	21.24	21.40	0

NR Band n2 _ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						372000	376000	380000	
						1860 MHz	1880 MHz	1900 MHz	
20 MHz	15	DFT-s	pi/2 BPSK	1	1	21.34	21.40	21.20	0
				1	53	21.25	21.38	21.26	0
				1	104	21.33	21.27	21.33	0
				50	0	21.48	21.38	21.34	0
				50	28	21.24	21.44	21.24	0
				50	56	21.27	21.38	21.28	0
				100	0	21.41	21.38	21.34	0
			QPSK	1	1	21.29	21.43	21.42	0
				1	53	21.35	21.34	21.39	0
				1	104	21.20	21.26	21.24	0
				50	0	21.40	21.47	21.49	0
				50	28	21.39	21.29	21.46	0
				50	56	21.21	21.27	21.23	0
				100	0	21.49	21.40	21.48	0
			16QAM	1	1	21.20	21.39	21.28	0
			64QAM	1	1	21.43	21.46	21.32	0
			256QAM	1	1	18.26	18.25	18.31	1.5
		CP	QPSK	1	1	21.35	21.28	21.25	0

[NR Band n25 Conducted Power]

NR Band n25 _ 5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						370500	376500	382500	
						1852.5 MHz	1882.5 MHz	1912.5 MHz	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	21.36	21.43	21.42	0
				1	13	21.24	21.37	21.19	0
				1	23	21.27	21.37	21.27	0
				12	0	21.35	21.39	21.38	0
				12	7	21.24	21.24	21.19	0
				12	13	21.30	21.32	21.31	0
			QPSK	25	0	21.18	21.18	21.34	0
				1	1	21.31	21.30	21.35	0
				1	13	21.31	21.26	21.33	0
				1	23	21.22	21.26	21.22	0
				12	0	21.40	21.42	21.29	0
				12	7	21.32	21.38	21.23	0
				12	13	21.27	21.31	21.36	0
				25	0	21.37	21.33	21.32	0
			16QAM	1	1	21.30	21.20	21.37	0
			64QAM	1	1	21.38	21.43	21.44	0
			256QAM	1	1	18.76	18.93	18.86	1.5
		CP	QPSK	1	1	21.44	21.31	21.37	0

NR Band n25 _ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						371000	376500	382000	
						1855 MHz	1882.5 MHz	1910 MHz	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	21.44	21.43	21.26	0
				1	26	21.25	21.28	21.34	0
				1	50	21.36	21.41	21.42	0
				25	0	21.31	21.31	21.26	0
				25	14	21.38	21.30	21.38	0
				25	27	21.22	21.26	21.28	0
			QPSK	50	0	21.24	21.36	21.24	0
				1	1	21.36	21.33	21.42	0
				1	26	21.39	21.36	21.38	0
				1	50	21.25	21.33	21.32	0
				25	0	21.40	21.39	21.41	0
				25	14	21.32	21.33	21.24	0
				25	27	21.40	21.42	21.26	0
				50	0	21.26	21.27	21.27	0
			16QAM	1	1	21.27	21.40	21.32	0
			64QAM	1	1	21.41	21.47	21.41	0
			256QAM	1	1	18.93	18.82	18.78	1.5
		CP	QPSK	1	1	21.33	21.43	21.33	0

NR Band n25 _ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						371500	376500	381500	
						1857.5 MHz	1882.5 MHz	1907.5 MHz	
15 MHz	15	DFT-s	pi/2 BPSK	1	1	21.32	21.27	21.30	0
				1	40	21.38	21.28	21.27	0
				1	77	21.42	21.37	21.32	0
				36	0	21.38	21.28	21.36	0
				36	22	21.21	21.19	21.30	0
				36	43	21.22	21.37	21.27	0
				75	0	21.25	21.25	21.25	0
			QPSK	1	1	21.34	21.49	21.35	0
				1	40	21.29	21.24	21.32	0
				1	77	21.23	21.40	21.33	0
				36	0	21.32	21.44	21.40	0
				36	22	21.26	21.26	21.21	0
				36	43	21.29	21.37	21.40	0
				75	0	21.38	21.32	21.25	0
			16QAM	1	1	21.31	21.24	21.26	0
			64QAM	1	1	21.48	21.32	21.35	0
			256QAM	1	1	18.94	18.85	18.76	1.5
		CP	QPSK	1	1	21.36	21.46	21.34	0

NR Band n25 _ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						372000	376500	381000	
						1860 MHz	1882.5 MHz	1905 MHz	
20 MHz	15	DFT-s	pi/2 BPSK	1	1	21.43	21.38	21.34	0
				1	53	21.32	21.18	21.38	0
				1	104	21.39	21.29	21.33	0
				50	0	21.38	21.40	21.27	0
				50	28	21.22	21.18	21.19	0
				50	56	21.38	21.33	21.23	0
				100	0	21.21	21.22	21.38	0
			QPSK	1	1	21.48	21.47	21.46	0
				1	53	21.30	21.24	21.21	0
				1	104	21.42	21.35	21.35	0
				50	0	21.30	21.44	21.45	0
				50	28	21.28	21.24	21.28	0
				50	56	21.31	21.28	21.40	0
				100	0	21.41	21.37	21.45	0
			16QAM	1	1	21.36	21.36	21.26	0
			64QAM	1	1	21.41	21.45	21.43	0
			256QAM	1	1	18.91	18.83	18.85	1.5
		CP	QPSK	1	1	21.38	21.34	21.44	0

NR Band n25 _ 25 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						372500		380500	
						1862.5 MHz		1902.5 MHz	
25 MHz	15	DFT-s	pi/2 BPSK	1	1	21.19		21.10	0
				1	66	21.26		21.06	0
				1	131	21.46		21.07	0
				64	0	21.33		21.29	0
				64	35	21.33		21.19	0
				64	69	21.44		21.27	0
			QPSK	128	0	21.41		21.18	0
				1	1	21.09		21.07	0
				1	66	21.17		20.93	0
				1	131	21.33		21.00	0
				64	0	21.32		21.24	0
				64	35	21.41		21.23	0
				64	69	21.44		21.26	0
				128	0	21.37		21.28	0
			16QAM	1	1	21.51		21.46	0
			64QAM	1	1	21.49		21.40	0
			256QAM	1	1	18.87		18.97	1.5
		CP	QPSK	1	1	21.13		21.09	0

NR Band n25 _ 30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						373000		380000	
						1865 MHz		1900 MHz	
30 MHz	15	DFT-s	pi/2 BPSK	1	1	21.25		21.14	0
				1	80	21.29		21.11	0
				1	158	21.47		21.06	0
				80	0	21.39		21.38	0
				80	40	21.39		21.28	0
				80	80	21.51		21.26	0
			QPSK	160	0	21.46		21.39	0
				1	1	21.15		21.11	0
				1	80	21.22		21.11	0
				1	158	21.39		20.99	0
				80	0	21.39		21.33	0
				80	40	21.47		21.26	0
				80	80	21.59		21.28	0
				160	0	21.48		21.41	0
			16QAM	1	1	21.61		21.51	0
			64QAM	1	1	21.47		21.52	0
			256QAM	1	1	19.01		18.98	1.5
		CP	QPSK	1	1	21.18		21.10	0

NR Band n25 _ 40 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							376500		
							1882.5 MHz		
40 MHz	15	DFT-s	pi/2 BPSK	1	1		20.97		0
				1	108		21.22		0
				1	214		21.13		0
				108	0		21.28		0
				108	54		21.36		0
				108	108		21.36		0
				216	0		21.30		0
			QPSK	1	1		20.93		0
				1	108		21.15		0
				1	214		20.99		0
				108	0		21.26		0
				108	54		21.37		0
				108	108		21.30		0
				216	0		21.29		0
			16QAM	1	1		21.31		0
			64QAM	1	1		21.21		0
			256QAM	1	1		19.02		1.5
		CP	QPSK	1	1		20.90		0

[NR Band n30 Conducted Power]

NR Band n30_ 5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							462000		
							2310 MHz		
5 MHz	15	DFT-s	pi/2 BPSK	1	1		21.29		0
				1	13		21.25		0
				1	23		21.23		0
				12	0		21.37		0
				12	7		21.35		0
				12	13		21.32		0
			QPSK	25	0		21.22		0
				1	1		21.42		0
				1	13		21.28		0
				1	23		21.29		0
				12	0		21.27		0
				12	7		21.35		0
				12	13		21.39		0
				25	0		21.38		0
			16QAM	1	1		21.23		0
			64QAM	1	1		21.47		0
			256QAM	1	1		18.75		1.5
		CP	QPSK	1	1		21.34		0

NR Band n30_ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							462000		
							2310 MHz		
10 MHz	15	DFT-s	pi/2 BPSK	1	1		21.28		0
				1	26		21.30		0
				1	50		21.40		0
				25	0		21.37		0
				25	14		21.26		0
				25	27		21.34		0
			QPSK	50	0		21.37		0
				1	1		21.42		0
				1	26		21.24		0
				1	50		21.24		0
				25	0		21.30		0
				25	14		21.29		0
				25	27		21.29		0
				50	0		21.31		0
			16QAM	1	1		21.24		0
			64QAM	1	1		21.49		0
			256QAM	1	1		18.77		1.5
		CP	QPSK	1	1		21.23		0

[NR Band n66 Conducted Power]

NR Band n66 _5 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						342500	349000	355500	
						1712.5 MHz	1745 MHz	1777.5 MHz	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	21.13	20.96	21.12	0
				1	13	21.08	21.20	21.26	0
				1	23	21.19	21.21	21.16	0
				12	0	21.11	21.11	21.14	0
				12	7	21.15	21.26	21.14	0
				12	13	21.17	21.13	21.14	0
			QPSK	25	0	21.20	21.18	21.14	0
				1	1	20.96	20.99	20.95	0
				1	13	21.19	21.13	21.21	0
				1	23	21.09	21.22	21.21	0
				12	0	21.22	21.20	21.16	0
				12	7	21.13	21.08	21.10	0
				12	13	21.11	21.07	21.24	0
				25	0	21.17	21.21	21.10	0
			16QAM	1	1	21.06	21.02	20.90	0
			64QAM	1	1	21.17	21.15	21.25	0
			256QAM	1	1	19.32	19.42	19.42	1.5
		CP	QPSK	1	1	21.20	21.14	21.17	0

NR Band n66 _10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						343000	349000	355000	
						1715 MHz	1745 MHz	1775 MHz	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	21.03	20.99	21.02	0
				1	26	21.09	21.23	21.13	0
				1	50	21.22	21.18	21.13	0
				25	0	21.07	21.14	21.23	0
				25	14	21.21	21.23	21.13	0
				25	27	21.18	21.18	21.17	0
			QPSK	50	0	21.20	21.23	21.15	0
				1	1	20.96	21.13	21.12	0
				1	26	21.26	21.25	21.07	0
				1	50	21.19	21.20	21.06	0
				25	0	21.20	21.07	21.19	0
				25	14	21.03	21.21	21.06	0
				25	27	21.20	21.22	21.15	0
				50	0	21.22	21.19	21.25	0
			16QAM	1	1	20.91	21.01	20.94	0
			64QAM	1	1	21.19	21.15	21.29	0
			256QAM	1	1	19.38	19.38	19.40	1.5
		CP	QPSK	1	1	21.30	21.11	21.19	0

NR Band n66 _ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						343500	349000	354500	
						1717.5 MHz	1745 MHz	1772.5 MHz	
15 MHz	15	DFT-s	pi/2 BPSK	1	1	21.02	20.96	21.03	0
				1	40	21.20	21.20	21.14	0
				1	77	21.14	21.20	21.09	0
				36	0	21.05	21.04	21.23	0
				36	22	21.20	21.13	21.25	0
				36	43	21.19	21.12	21.17	0
				75	0	21.13	21.14	21.19	0
			QPSK	1	1	21.12	21.10	20.95	0
				1	40	21.18	21.10	21.19	0
				1	77	21.16	21.12	21.15	0
				36	0	21.10	21.15	21.04	0
				36	22	21.10	21.21	21.22	0
				36	43	21.15	21.17	21.11	0
				75	0	21.22	21.23	21.18	0
			16QAM	1	1	20.89	21.09	21.09	0
			64QAM	1	1	21.24	21.20	21.30	0
			256QAM	1	1	19.30	19.22	19.34	1.5
		CP	QPSK	1	1	21.21	21.10	21.19	0

NR Band n66 _ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						343500	349000	354500	
						1717.5 MHz	1745 MHz	1772.5 MHz	
20 MHz	15	DFT-s	pi/2 BPSK	1	1	21.06	21.07	21.12	0
				1	53	21.22	21.10	21.24	0
				1	104	21.10	21.03	21.22	0
				50	0	21.21	21.04	21.08	0
				50	28	21.25	21.09	21.13	0
				50	56	21.15	21.15	21.14	0
				100	0	21.11	21.11	21.09	0
			QPSK	1	1	21.12	21.03	21.05	0
				1	53	21.11	21.09	21.17	0
				1	104	21.10	21.11	21.23	0
				50	0	21.20	21.16	21.13	0
				50	28	21.08	21.14	21.17	0
				50	56	21.17	21.07	21.20	0
				100	0	21.23	21.25	21.18	0
			16QAM	1	1	21.00	20.91	20.98	0
			64QAM	1	1	21.32	21.16	21.25	0
			256QAM	1	1	19.40	19.31	19.33	1.5
		CP	QPSK	1	1	21.27	21.29	21.10	0

NR Band n66 _ 30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							349000		
							1745 MHz		
30 MHz	15	DFT-s	pi/2 BPSK	1	1		20.99		0
				1	80		21.09		0
				1	158		21.06		0
				80	0		21.10		0
				80	40		21.08		0
				80	80		21.09		0
				160	0		21.22		0
			QPSK	1	1		20.96		0
				1	80		21.11		0
				1	158		21.26		0
				80	0		21.13		0
				80	40		21.21		0
				80	80		21.07		0
				160	0		21.12		0
			16QAM	1	1		20.90		0
			64QAM	1	1		21.34		0
			256QAM	1	1		19.42		1.5
		CP	QPSK	1	1		21.25		0

NR Band n66 _ 40 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							349000		
							1745 MHz		
40 MHz	15	DFT-s	pi/2 BPSK	1	1		21.40		0
				1	108		21.47		0
				1	214		21.16		0
				108	0		21.50		0
				108	54		21.45		0
				108	108		21.50		0
			QPSK	216	0		21.45		0
				1	1		21.31		0
				1	108		21.34		0
				1	214		21.11		0
				108	0		21.45		0
				108	54		21.45		0
				108	108		21.46		0
				216	0		21.54		0
			16QAM	1	1		21.69		0
			64QAM	1	1		21.20		0
			256QAM	1	1		19.66		1.5
		CP	QPSK	1	1		21.36		0

11.5 WIFI Conducted Power measurement method

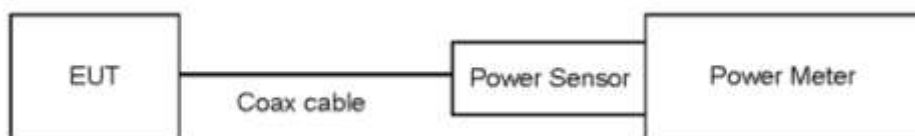
Un-Licensed bands (DTS Band)

Test Description	Test Procedure Used
Conducted Output Power	- KDB 558074 v05 - Section 8.3.2.3 - ANSI 63.10-2013 - Section 11.9.2.3

Test Procedure

1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Test setup



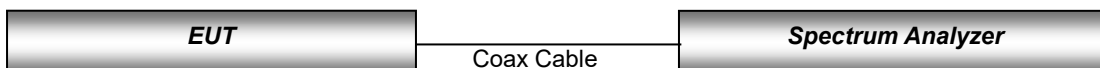
Un-Licensed bands(NII Band)

Test Description	Test Procedure Used
Conducted Output Power	- KDB 789033 D02 v02r01 - Section E.3.a

Test Procedure

1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Test setup



11.5.1 IEEE 802.11 (2.4 GHz) Maximum Conducted Power

Mode	Frequency [MHz]	Channel	IEEE 802.11 (2.4 GHz) Average RF Conducted Power [dBm]		
			Ant 1	Ant 2	MIMO
802.11b	2 412	1	15.71	15.16	18.45
	2 437	6	16.52	16.24	19.39
	2 462	11	15.64	15.20	18.44
802.11g	2 412	1	16.37	15.42	18.93
	2 437	6	16.25	15.43	18.87
	2 462	11	15.33	14.52	17.95
802.11n (HT20)	2 412	1	16.51	15.48	19.04
	2 437	6	16.35	15.35	18.89
	2 462	11	15.41	14.52	18.00

11.5.2 IEEE 802.11 (2.4 GHz) Hotspot Conducted Power

Mode	Frequency [MHz]	Channel	IEEE 802.11 (2.4 GHz) Average RF Conducted Power [dBm]		
			Ant 1	Ant 2	MIMO
802.11b	2 412	1	9.56	9.48	12.53
	2 437	6	9.22	9.59	12.42
	2 462	11	9.58	9.60	12.60
802.11g	2 412	1	9.66	9.45	12.56
	2 437	6	9.36	9.78	12.58
	2 462	11	9.68	9.58	12.64
802.11n (HT20)	2 412	1	9.38	9.16	12.29
	2 437	6	9.07	9.49	12.30
	2 462	11	9.34	9.24	12.30

11.5.3 IEEE 802.11 (2.4 GHz) Reduced Conducted Power

Mode	Frequency [MHz]	Channel	IEEE 802.11 (2.4 GHz) Average RF Conducted Power [dBm]		
			Ant 1	Ant 2	MIMO
802.11b	2 412	1	12.02	11.48	14.77
	2 437	6	11.72	10.92	14.35
	2 462	11	11.87	11.43	14.67
802.11g	2 412	1	11.33	10.70	14.03
	2 437	6	11.11	10.29	13.72
	2 462	11	11.31	10.85	14.09
802.11n (HT20)	2 412	1	10.97	10.35	13.69
	2 437	6	10.71	9.92	13.35
	2 462	11	10.95	10.47	13.73

11.5.4 IEEE 802.11 (5 GHz) Maximum Conducted Power

Mode	Frequency [MHz]	Channel	IEEE 802.11 (5 GHz) Average RF Conducted Power [dBm]		
			Ant 1	Ant 2	MIMO
802.11a (20 MHz BW)	5 180	36	10.49	10.12	13.32
	5 200	40	15.58	15.12	18.37
	5 220	44	15.42	15.52	18.48
	5 240	48	15.66	15.35	18.52
	5 260	52	16.12	16.95	19.57
	5 280	56	15.12	16.81	19.06
	5 300	60	16.16	16.89	19.55
	5 320	64	9.75	9.91	12.84
	5 500	100	13.26	12.43	15.88
	5 600	120	15.77	15.70	18.75
	5 620	124	14.75	15.68	18.25
	5 720	144	15.96	15.43	18.71
	5 745	149	16.12	15.41	18.79
	5 785	157	15.79	15.28	18.55
	5 805	161	15.68	15.27	18.49
	5 825	165	9.34	10.10	12.75

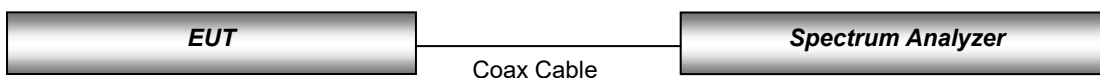
11.5.5 IEEE 802.11 (5 GHz) Reduced Conducted Power

Mode	Frequency [MHz]	Channel	IEEE 802.11 (5 GHz) Average RF Conducted Power [dBm]		
			Ant 1	Ant 2	MIMO
802.11ac80 (80MHz BW)	5 210	42	10.99	9.89	13.49
	5 290	58	10.27	10.52	13.41
	5 530	106	10.91	10.19	13.58
	5 610	122	10.03	9.89	12.97
	5 690	138	10.93	9.52	13.30
	5 775	155	9.62	9.05	12.35

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission mode with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
- Only the conducted Power measurement results of the WLAN mode determined by FCC KDB 248227 D01v02r02 are included in the table above. No additional power measurement other than the measurement case is required.

Test Configuration



11.6. Bluetooth Conducted Power

11.6.1 Bluetooth Maximum Conducted Power

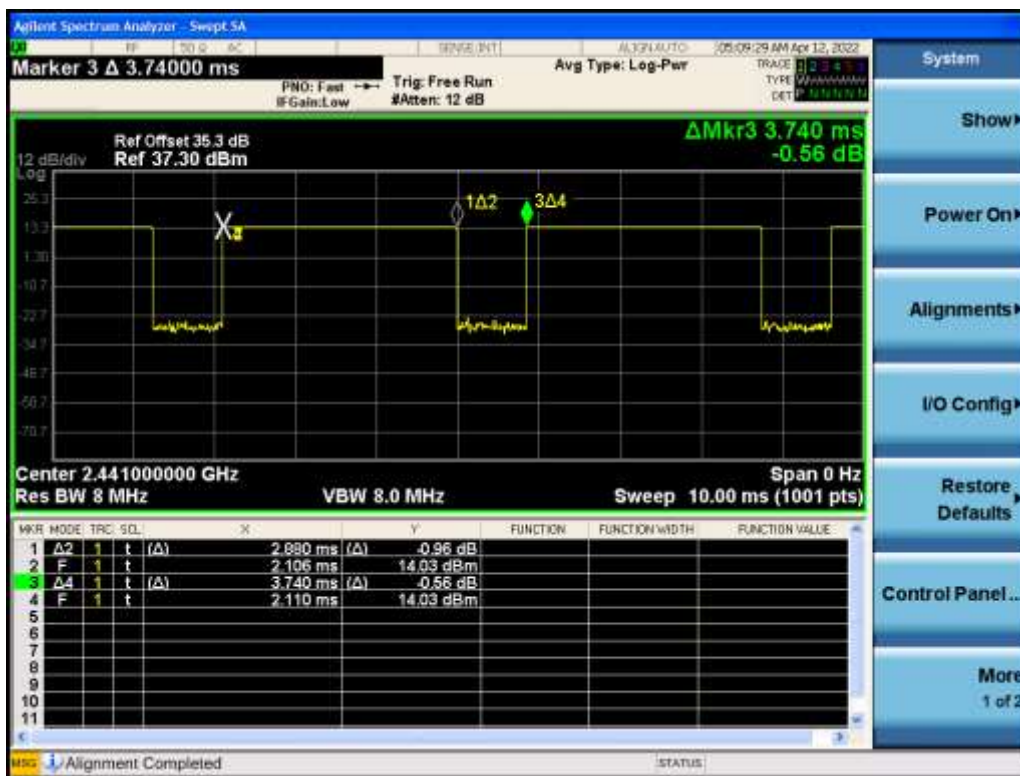
The Burst averaged-conducted power

Mode	Channel	Bluetooth Power [dBm]
DH5	0	14.42
	39	13.51
	78	14.32
2-DH5	0	13.43
	39	12.71
	78	13.42
3-DH5	0	13.44
	39	12.72
	78	13.41

Per October 2016 TCB Workshop Notes:

When call box and Bluetooth protocol are used for Bluetooth SAR measurement, time-domain plot is required to identify duty factor for supporting the test setup and result.

Bluetooth duty cycle was measured using Bluetooth tester equipment (CBT / R&S) with Bluetooth DH5 mode.



Duty Cycle

$$= (\text{BT-On time} / \text{BT-Full time}) = (2.880 / 3.740) = 0.770 \text{ (DH5)}$$

Duty factor= 1/Duty cycle : 1.299

12. System Verification

12.1 Tissue Verification

The body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity.

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	Target Conductivity σ (S/m)	Target Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/06/2022	20.2	750H	705	0.865	43.290	0.889	42.174	+ 2.77	- 2.58
			710	0.861	43.220	0.890	42.148	+ 3.37	- 2.48
			750	0.906	42.609	0.893	41.940	- 1.43	- 1.57
04/07/2022	18.9	750H	750	0.859	42.619	0.893	41.940	+ 3.96	- 1.59
			785	0.890	42.126	0.896	41.758	+ 0.67	- 0.87
04/08/2022	19.0	750H	750	0.868	42.608	0.893	41.940	+ 2.88	- 1.57
			785	0.876	42.101	0.896	41.758	+ 2.28	- 0.81
04/05/2022	19.8	750H	705	0.885	42.998	0.889	42.174	+ 0.45	- 1.92
			710	0.886	42.925	0.890	42.148	+ 0.45	- 1.81
			750	0.899	42.353	0.893	41.940	- 0.67	- 0.98
04/18/2022	18.6	835H	820	0.907	42.175	0.899	41.577	- 0.88	- 1.42
			835	0.925	41.941	0.900	41.500	- 2.70	- 1.05
			850	0.940	41.712	0.916	41.500	- 2.55	- 0.51
04/04/2022	21.0	835H	820	0.906	42.152	0.899	41.577	- 0.77	- 1.36
			835	0.924	41.924	0.900	41.500	- 2.60	- 1.01
			850	0.939	41.698	0.916	41.500	- 2.45	- 0.47
04/13/2022	19.8	835H	820	0.907	41.648	0.899	41.577	- 0.88	- 0.17
			835	0.925	41.414	0.900	41.500	- 2.70	+ 0.21
			850	0.940	41.185	0.916	41.500	- 2.55	+ 0.76
04/14/2022	20.0	1800H	1710	1.297	41.011	1.348	40.144	+ 3.93	- 2.11
			1750	1.341	40.844	1.371	40.080	+ 2.24	- 1.87
			1800	1.398	40.586	1.400	40.000	+ 0.14	- 1.44
04/13/2022	19.2	1800H	1710	1.289	41.654	1.348	40.144	+ 4.58	- 3.63
			1750	1.328	41.506	1.371	40.080	+ 3.24	- 3.44
			1800	1.382	41.280	1.400	40.000	+ 1.30	- 3.10
04/08/2022	20.8	1800H	1710	1.290	41.664	1.348	40.144	+ 4.50	- 3.65
			1750	1.330	41.517	1.371	40.080	+ 3.08	- 3.46
			1800	1.383	41.294	1.400	40.000	+ 1.23	- 3.13

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	Target Conductivity σ (S/m)	Target Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/13/2022	21.0	1900H	1850	1.385	41.287	1.400	40.000	+ 1.08	- 3.12
			1900	1.438	41.100	1.400	40.000	- 2.64	- 2.68
			1910	1.445	41.068	1.400	40.000	- 3.11	- 2.60
04/14/2022	21.9	1900H	1850	1.365	41.486	1.400	40.000	+ 2.56	- 3.58
			1900	1.417	41.294	1.400	40.000	- 1.20	- 3.13
			1910	1.425	41.264	1.400	40.000	- 1.75	- 3.06
04/12/2022	19.2	1900H	1850	1.366	41.485	1.400	40.000	+ 2.49	- 3.58
			1900	1.417	41.297	1.400	40.000	- 1.20	- 3.14
			1910	1.425	41.268	1.400	40.000	- 1.75	- 3.07
04/07/2022	21.4	1900H	1850	1.365	41.496	1.400	40.000	+ 2.56	- 3.61
			1900	1.417	41.310	1.400	40.000	- 1.20	- 3.17
			1910	1.425	41.277	1.400	40.000	- 1.75	- 3.09
04/12/2022	19.4	2300H	2300	1.715	39.918	1.667	39.470	- 2.80	- 1.12
			2310	1.721	39.895	1.676	39.452	- 2.61	- 1.11
			2350	1.752	39.804	1.711	39.380	- 2.34	- 1.07
			2360	1.760	39.784	1.720	39.362	- 2.27	- 1.06
04/19/2022	20.0	2300H	2300	1.711	39.919	1.667	39.470	- 2.57	- 1.12
			2310	1.718	39.895	1.676	39.452	- 2.44	- 1.11
			2350	1.751	39.806	1.711	39.380	- 2.28	- 1.07
			2360	1.759	39.786	1.720	39.362	- 2.22	- 1.07
04/18/2022	20.7	2300H	2300	1.715	39.907	1.667	39.470	- 2.80	- 1.10
			2310	1.721	39.888	1.676	39.452	- 2.61	- 1.09
			2350	1.752	39.814	1.711	39.380	- 2.34	- 1.09
			2360	1.759	39.795	1.720	39.362	- 2.22	- 1.09
04/21/2022	19.5	2450H	2400	1.792	39.193	1.756	39.290	- 2.01	+ 0.25
			2450	1.834	39.238	1.800	39.200	- 1.85	- 0.10
			2500	1.875	39.313	1.855	39.140	- 1.07	- 0.44
04/15/2022	21.5	2450H	2400	1.749	38.586	1.756	39.290	- 2.82	+ 2.13
			2450	1.819	38.334	1.800	39.200	- 1.04	+ 2.26
			2500	1.876	38.181	1.855	39.140	- 3.84	+ 2.83
04/20/2022	19.5	2450H	2400	1.792	39.208	1.756	39.290	- 2.01	+ 0.21
			2450	1.833	39.250	1.800	39.200	- 1.80	- 0.13
			2500	1.875	39.323	1.855	39.140	- 1.07	- 0.47

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	Target Conductivity σ (S/m)	Target Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/08/2022	20.1	2600H	2500	1.878	38.505	1.855	39.140	- 1.22	+ 1.65
			2550	1.927	38.303	1.909	39.070	- 0.93	+ 2.00
			2600	1.977	38.066	1.964	39.010	- 0.66	+ 2.48
04/09/2022	20.6	2600H	2500	1.878	38.500	1.855	39.140	- 1.22	+ 1.66
			2600	1.977	38.054	1.964	39.010	- 0.66	+ 2.51
			2690	2.060	37.654	2.062	38.894	+ 0.10	+ 3.29
04/11/2022	19.0	2600H	2500	1.938	38.561	1.855	39.140	- 4.28	+ 1.50
			2550	1.989	38.355	1.909	39.070	- 4.02	+ 1.86
			2600	2.041	38.125	2.062	38.894	+ 1.03	+ 2.02
04/29/2022	20.4	3400H~3550	3400	2.822	36.800	2.810	38.040	- 0.43	+ 3.37
			3500	2.908	36.627	2.913	37.930	+ 0.17	+ 3.56
			3550	2.947	36.598	2.964	37.870	+ 0.58	+ 3.48
04/15/2022	19.8	5180H-5320H	5180	4.559	36.920	4.635	36.010	+ 1.67	- 2.46
			5250	4.671	36.729	4.706	35.930	+ 0.75	+ 0.97
			5280	4.721	36.704	4.737	35.894	+ 0.34	- 2.21
			5320	4.793	36.679	4.778	35.846	- 0.31	- 2.27
04/08/2022	19.7	5180H-5320H	5180	4.568	37.034	4.635	36.010	+ 1.47	- 2.77
			5250	4.744	37.023	4.706	35.930	- 0.80	- 2.95
			5280	4.673	36.631	4.737	35.894	+ 1.37	- 2.01
			5320	4.687	36.597	4.778	35.846	+ 1.94	- 2.05
04/15/2022	19.8	5500H-5600H	5500	4.885	36.551	4.963	35.640	+ 1.60	- 2.49
			5600	4.964	36.225	5.065	35.530	+ 2.03	+ 1.80
04/11/2022	19.9	5500H-5600H	5500	5.036	36.562	4.963	35.640	- 1.45	- 2.52
			5600	5.130	36.361	5.065	35.530	- 1.27	- 2.29
04/15/2022	19.8	5750H-5825H	5750	5.261	35.930	5.219	35.360	- 0.80	- 3.55
			5800	5.248	35.999	5.270	35.300	+ 0.42	- 1.94
			5825	5.228	35.982	5.296	35.270	+ 1.30	- 1.98
04/12/2022	19.8	5750H-5825H	5750	5.394	36.400	5.219	35.360	- 3.24	- 2.86
			5800	5.188	34.802	5.270	35.300	+ 1.58	+ 1.43
			5825	5.240	36.162	5.296	35.270	+ 1.07	- 2.47

* 5G NR Band

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	Target Conductivity σ (S/m)	Target Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/08/2022	21.0	750H	705	0.859	43.240	0.889	42.174	+ 3.49	- 2.47
			710	0.864	43.166	0.890	42.148	+ 3.01	- 2.36
			750	0.906	42.609	0.893	41.940	- 1.43	- 1.57
04/13/2022	21.6	750H	705	0.857	43.182	0.889	42.174	+ 3.73	- 2.33
			710	0.863	43.105	0.890	42.148	+ 3.13	- 2.22
			750	0.904	42.534	0.893	41.940	- 1.22	- 1.40
04/11/2022	20.5	835H	820	0.907	42.142	0.899	41.577	- 0.88	- 1.34
			835	0.925	41.916	0.900	41.500	- 2.70	- 0.99
			850	0.940	41.693	0.916	41.500	- 2.55	- 0.46
04/12/2022	21.7	1800H	1710	1.302	41.718	1.348	40.144	+ 3.53	- 3.77
			1750	1.339	41.579	1.371	40.080	+ 2.39	- 3.61
			1800	1.395	41.356	1.400	40.000	+ 0.36	- 3.28
04/11/2022	21.2	1900H	1850	1.405	40.876	1.400	40.000	- 0.36	- 2.14
			1900	1.430	40.785	1.400	40.000	- 2.10	- 1.92
			1910	1.434	40.767	1.400	40.000	- 2.37	- 1.88
04/20/2022	19.6	2300H	2300	1.716	39.406	1.667	39.470	- 2.86	+ 0.16
			2310	1.723	39.368	1.676	39.452	- 2.73	+ 0.21
			2350	1.756	39.254	1.711	39.380	- 2.56	+ 0.32
			2360	1.763	39.236	1.720	39.362	- 2.44	+ 0.32
04/22/2022	20.8	2600H	2500	1.825	38.523	1.855	39.140	+ 1.64	+ 1.60
			2600	1.923	38.078	1.964	39.010	+ 2.13	+ 2.45
			2690	2.005	37.656	2.062	38.894	+ 2.84	+ 3.29
04/18/2022	19.4	3400H~3550	3400	2.841	38.834	2.810	38.040	- 1.09	- 2.04
			3500	2.957	38.595	2.913	37.930	- 1.49	- 1.72
			3550	2.975	38.596	2.964	37.870	- 0.37	- 1.88
04/20/2022	20.5	3400H~3550	3400	2.859	36.620	2.810	38.040	- 1.71	+ 3.88
			3500	2.928	36.408	2.913	37.930	- 0.51	+ 4.18
			3550	2.965	36.326	2.964	37.870	- 0.03	+ 4.25
04/21/2022	21.2	3400H~3550	3400	2.859	36.621	2.810	38.040	- 1.71	+ 3.87
			3500	2.929	36.409	2.913	37.930	- 0.55	+ 4.18
			3550	2.965	36.327	2.964	37.870	- 0.03	+ 4.25
04/22/2022	21.1	3400H~3550	3400	2.859	36.628	2.810	38.040	- 1.71	+ 3.85
			3500	2.929	36.414	2.913	37.930	- 0.55	+ 4.16
			3550	2.965	36.329	2.964	37.870	- 0.03	+ 4.24

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	Target Conductivity σ (S/m)	Target Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/25/2022	21.0	3700H~3970	3700	3.094	36.156	3.118	37.700	+ 0.78	+ 4.27
			3750	3.136	36.006	3.169	37.640	+ 1.05	+ 4.54
			3800	3.244	36.136	3.220	37.590	- 0.74	+ 4.02
			3900	3.343	36.063	3.323	37.470	- 0.60	+ 3.90
			3970	3.293	35.707	3.394	37.390	+ 3.07	+ 4.71
04/26/2022	21.0	3700H~3970	3700	3.107	36.526	3.118	37.700	+ 0.35	+ 3.21
			3750	3.146	36.326	3.169	37.640	+ 0.73	+ 3.62
			3800	3.253	36.219	3.220	37.590	- 1.01	+ 3.79
			3900	3.374	36.301	3.323	37.470	- 1.51	+ 3.22
			3970	3.334	35.979	3.394	37.390	+ 1.80	+ 3.92
04/27/2022	21.3	3700H~3970	3700	3.041	36.361	3.118	37.700	+ 2.53	+ 3.68
			3750	3.085	36.189	3.169	37.640	+ 2.72	+ 4.01
			3800	3.199	36.293	3.220	37.590	+ 0.66	+ 3.57
			3900	3.317	36.203	3.323	37.470	+ 0.18	+ 3.50
			3970	3.269	35.925	3.394	37.390	+ 3.82	+ 4.08
04/19/2022	19.9	3700H~3970	3700	3.078	38.180	3.118	37.700	+ 1.30	- 1.26
			3750	3.136	38.240	3.169	37.640	+ 1.05	- 1.57
			3800	3.164	38.198	3.220	37.590	+ 1.77	- 1.59
			3900	3.247	38.182	3.323	37.470	+ 2.34	- 1.86
			3970	3.290	37.963	3.394	37.390	+ 3.16	- 1.51

* Extremity SAR

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	Target Conductivity σ (S/m)	Target Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/11/2022	19.9	1900H	1850	1.365	41.469	1.400	40.000	+ 2.56	- 3.54
			1900	1.417	41.292	1.400	40.000	- 1.20	- 3.13
			1910	1.425	41.265	1.400	40.000	- 1.75	- 3.07
04/15/2022	19.3	1900H	1850	1.365	41.485	1.400	40.000	+ 2.56	- 3.58
			1900	1.416	41.294	1.400	40.000	- 1.13	- 3.13
			1910	1.424	41.264	1.400	40.000	- 1.69	- 3.06
04/15/2022	19.8	5180H-5320H	5180	4.559	36.920	4.635	36.010	+ 1.67	- 2.46
			5250	4.671	36.729	4.706	35.930	+ 0.75	+ 0.97
			5280	4.721	36.704	4.737	35.894	+ 0.34	- 2.21
			5320	4.793	36.679	4.778	35.846	- 0.31	- 2.27
04/15/2022	19.8	5500H-5600H	5500	4.885	36.551	4.963	35.640	+ 1.60	- 2.49
			5600	4.964	36.225	5.065	35.530	+ 2.03	+ 1.80

* Volume SAR

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	Target Conductivity σ (S/m)	Target Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/29/2022	20.4	2450H	2400	1.798	38.727	1.756	39.290	- 2.34	+ 1.45
			2450	1.850	38.452	1.800	39.200	- 2.70	+ 1.95
			2500	1.900	38.235	1.855	39.140	- 2.37	+ 2.37

12.2 System Verification

Input Power: 50 mW

Freq. [MHz]	Date	Probe (S/N)	Dipole (S/N)	Liquid	Amb. Temp. [°C]	Liquid Temp. [°C]	1 W Target SAR _{1g} (SPEAG) [W/kg]	50mW Measured SAR _{1g} [W/kg]	1 W Normalized SAR _{1g} [W/kg]	Deviation [%]	Limit [%]
750	04/06/2022	7681	1014	Head	20.3	20.2	8.55	0.417	8.34	-2.46	± 10
750	04/07/2022	7681		Head	18.9	18.9	8.55	0.404	8.08	-5.50	± 10
750	04/08/2022	7681		Head	19.1	19.0	8.55	0.409	8.18	-4.33	± 10
750	04/05/2022	7681		Head	19.9	19.8	8.55	0.423	8.46	-1.05	± 10
835	04/18/2022	7681	4d165	Head	18.7	18.6	9.68	0.478	9.56	-1.24	± 10
835	04/04/2022	7681		Head	21.0	21.0	9.68	0.513	10.26	5.99	± 10
835	04/13/2022	7309		Head	19.8	19.8	9.68	0.492	9.84	1.65	± 10
1 800	04/14/2022	7309	2d015	Head	20.1	20.0	38.8	1.960	39.20	1.03	± 10
1 800	04/13/2022	7655		Head	19.3	19.2	38.8	1.830	36.60	-5.67	± 10
1 800	04/08/2022	7655		Head	20.8	20.8	38.8	1.840	36.80	-5.15	± 10
1 900	04/13/2022	7309	5d032	Head	21.1	21.0	41.2	1.870	37.40	-9.22	± 10
1 900	04/14/2022	7655		Head	22.0	21.9	41.2	2.040	40.80	-0.97	± 10
1 900	04/12/2022	7655		Head	19.3	19.2	41.2	2.040	40.80	-0.97	± 10
1 900	04/07/2022	7655		Head	21.6	21.4	41.2	2.030	40.60	-1.46	± 10
2 300	04/12/2022	7702	1010	Head	19.5	19.4	49.5	2.340	46.80	-5.45	± 10
2 300	04/19/2022	7702		Head	20.1	20.0	49.5	2.330	46.60	-5.86	± 10
2 300	04/18/2022	7702		Head	20.7	20.7	49.5	2.350	47.00	-5.05	± 10
2 450	04/21/2022	7654	965	Head	19.6	19.5	53.3	2.500	50.00	-6.19	± 10
2 450	04/15/2022	7654		Head	21.5	21.5	53.3	2.760	55.20	3.56	± 10
2 450	04/20/2022	7702		Head	19.6	19.5	53.3	2.500	50.00	-6.19	± 10
2 600	04/08/2022	7654	1106	Head	20.1	20.1	56.3	2.660	53.20	-5.51	± 10
2 600	04/09/2022	7654		Head	20.8	20.6	56.3	2.660	53.20	-5.51	± 10
2 600	04/11/2022	7679		Head	19.1	19.0	56.3	2.630	52.60	-6.57	± 10
3 500	04/29/2022	7309	1132	Head	20.4	20.4	66.3	3.480	69.60	4.98	± 10
3 700	04/29/2022	7309	1105	Head	20.4	20.4	66.6	3.500	70.00	5.11	± 10
5 250	04/15/2022	7309	1107	Head	19.9	19.8	80.6	4.020	80.40	-0.25	± 10
5 250	04/08/2022	7681		Head	19.8	19.7	80.6	4.020	80.40	-0.25	± 10
5 600	04/15/2022	7309		Head	19.9	19.8	84.2	4.160	83.20	-1.19	± 10
5 600	04/11/2022	7681		Head	19.9	19.9	84.2	4.370	87.40	+3.80	± 10
5 750	04/15/2022	7309		Head	19.9	19.8	80.9	4.030	80.60	-0.37	± 10
5 750	04/12/2022	7681		Head	19.9	19.8	80.9	4.050	81.00	+0.12	± 10

* 5G NR Band

Input Power: 50 mW

Freq. [MHz]	Date	Probe (S/N)	Dipole (S/N)	Liquid	Amb. Temp. [°C]	Liquid Temp. [°C]	1 W Target SAR _{1g} (SPEAG) [W/kg]	50mW Measured SAR _{1g} [W/kg]	1 W Normalized SAR _{1g} [W/kg]	Deviation [%]	Limit [%]
750	04/08/2022	3972	1014	Head	21.0	21.0	8.55	0.448	8.96	4.80	± 10
750	04/13/2022	3972		Head	21.7	21.6	8.55	0.447	8.94	4.56	± 10
835	04/11/2022	7681	4d165	Head	20.5	20.5	9.68	0.514	10.28	6.20	± 10
1 800	04/12/2022	3972	2d015	Head	21.8	21.7	38.8	1.930	38.60	-0.52	± 10
1 900	04/11/2022	3972	5d032	Head	21.3	21.2	41.2	2.080	41.60	0.97	± 10
2 300	04/20/2022	7702	1010	Head	19.6	19.6	49.5	2.350	47.00	-5.05	± 10
2 600	04/22/2022	7681	1106	Head	20.8	20.8	56.3	2.920	58.40	3.73	± 10
3 500	04/18/2022	7681	1132	Head	19.5	19.4	66.3	3.130	62.60	-5.58	± 10
3 500	04/20/2022	7370		Head	20.6	20.5	66.3	3.130	62.60	-5.58	± 10
3 500	04/21/2022	7370		Head	21.3	21.2	66.3	3.130	62.60	-5.58	± 10
3 500	04/22/2022	7370		Head	21.1	21.1	66.3	3.130	62.60	-5.58	± 10
3 700	04/25/2022	7370	1105	Head	21.0	21.0	66.6	3.390	67.80	1.80	± 10
3 700	04/26/2022	7370		Head	21.0	21.0	66.6	3.440	68.80	3.30	± 10
3 700	04/27/2022	7370		Head	21.4	21.3	66.6	3.370	67.40	1.20	± 10
3 700	04/19/2022	7681		Head	19.9	19.9	66.6	3.120	62.40	-6.31	± 10
3 900	04/25/2022	7370	1019	Head	21.0	21.0	70.4	3.500	70.00	-0.57	± 10
3 900	04/26/2022	7370		Head	21.0	21.0	70.4	3.510	70.20	-0.28	± 10
3 900	04/27/2022	7370		Head	21.4	21.3	70.4	3.490	69.80	-0.85	± 10
3 900	04/19/2022	7681		Head	19.9	19.9	70.4	3.620	72.40	2.84	± 10

System Verification Results – Extremity SAR

Input Power: 50 mW

Freq.	Date	Probe (S/N)	Dipole (S/N)	Liquid	Amb. Temp.	Liquid Temp.	1 W Target SAR _{10g} (SPEAG)	50mW Measured SAR _{10g}	1 W Normalized SAR _{10g}	Deviation	Limit
[MHz]					[°C]	[°C]	[W/kg]	[W/kg]	[W/kg]	[%]	[%]
1 900	04/11/2022	7655	5d032	Head	19.9	19.9	21.4	1.040	20.80	-2.80	± 10
1 900	04/15/2022	7655		Head	19.3	19.3	21.4	1.050	21.00	-1.87	± 10
5 250	04/15/2022	7309	1107	Head	19.9	19.8	23.2	1.150	23.00	-0.86	± 10
5 600	04/15/2022	7309		Head	19.9	19.8	24.2	1.180	23.60	-2.48	± 10

System Verification Results – Volume SAR

Input Power: 50 mW

Freq.	Date	Probe (S/N)	Dipole (S/N)	Liquid	Amb. Temp.	Liquid Temp.	1 W Target SAR _{1g} (SPEAG)	50mW Measured SAR _{1g}	1 W Normalized SAR _{1g}	Deviation	Limit
[MHz]					[°C]	[°C]	[W/kg]	[W/kg]	[W/kg]	[%]	[%]
2 450	04/29/2022	7681	965	Head	20.4	20.4	53.3	2.770	55.4	+ 3.94	± 10

12.3 System Verification Procedure

SAR measurement was prior to assessment, the system is verified to the $\pm 10\%$ of the specifications at each frequency band by using the system verification kit. (Graphic Plots Attached)

- Cabling the system, using the verification kit equipment.
- Generate about 50 mW Input level from the signal generator to the Dipole Antenna.
- Dipole antenna was placed below the flat phantom.
- The measured one-gram SAR at the surface of the phantom above the dipole feed-point should be within 10 % of the target reference value.
- The results are normalized to 1 W input power.

Note;

SAR Verification was performed according to the FCC KDB 865664 D01v01r04.

13. SAR Test Data Summary

13.1 Head SAR Measurement Results(DSI=1)

GSM 850 Head SAR – Main #1 Ant.											
Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)			(W/kg)		(W/kg)	
836.6	190	GPRS 2TX	31.5	30.40	-0.19	Left Cheek	1:4.15	0.329	1.288	0.424	-
836.6	190	GPRS 2TX	31.5	30.40	0.02	Left Tilt	1:4.15	0.199	1.288	0.256	-
836.6	190	GPRS 2TX	31.5	30.40	0.15	Right Cheek	1:4.15	0.356	1.288	0.459	1
836.6	190	GPRS 2TX	31.5	30.40	0.01	Right Tilt	1:4.15	0.195	1.288	0.251	-
836.6	190	GSM	33.0	31.60	-0.18	Left Cheek	1:8.30	0.219	1.380	0.302	-
836.6	190	GSM	33.0	31.60	-0.03	Left Tilt	1:8.30	0.119	1.380	0.164	-
836.6	190	GSM	33.0	31.60	-0.14	Right Cheek	1:8.30	0.272	1.380	0.375	-
836.6	190	GSM	33.0	31.60	0.11	Right Tilt	1:8.30	0.135	1.380	0.186	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg Averaged over 1 gram					

GSM 1900 Head SAR- Main #2 Ant.											
Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)			(W/kg)		(W/kg)	
1 880	661	GSM	31.0	30.75	0.19	Left Cheek	1:8.30	0.275	1.059	0.291	2
1 880	661	GSM	31.0	30.75	0.18	Left Tilt	1:8.30	0.102	1.059	0.108	-
1 880	661	GSM	31.0	30.75	0.16	Right Cheek	1:8.30	0.178	1.059	0.189	-
1 880	661	GSM	31.0	30.75	-0.12	Right Tilt	1:8.30	0.135	1.059	0.143	-
1 880	661	GPRS 2TX	30.0	28.68	0.06	Left Cheek	1:4.15	0.272	1.355	0.369	3
1 880	661	GPRS 2TX	30.0	28.68	0.11	Left Tilt	1:4.15	0.099	1.355	0.134	-
1 880	661	GPRS 2TX	30.0	28.68	-0.17	Right Cheek	1:4.15	0.180	1.355	0.244	-
1 880	661	GPRS 2TX	30.0	28.68	0.11	Right Tilt	1:4.15	0.128	1.355	0.173	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg Averaged over 1 gram					

UMTS Band 5 Head SAR- Main #1 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)			(W/kg)		(W/kg)	
836.6	4183	RMC	23.5	22.71	-0.16	Left Cheek	1:1	0.218	1.199	0.261	-
836.6	4183	RMC	23.5	22.71	-0.12	Left Tilt	1:1	0.116	1.199	0.139	-
836.6	4183	RMC	23.5	22.71	0.01	Right Cheek	1:1	0.242	1.199	0.290	4
836.6	4183	RMC	23.5	22.71	0.01	Right Tilt	1:1	0.133	1.199	0.159	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg (mW/g) Averaged over 1 gram					

UMTS Band 4 Head SAR- Main #2 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)			(W/kg)		(W/kg)	
1 732.4	1412	RMC	24.5	23.54	0.17	Left Cheek	1:1	0.125	1.247	0.156	-
1 732.4	1412	RMC	24.5	23.54	0.15	Left Tilt	1:1	0.070	1.247	0.087	-
1 732.4	1412	RMC	24.5	23.54	0.03	Right Cheek	1:1	0.194	1.247	0.242	5
1 732.4	1412	RMC	24.5	23.54	-0.14	Right Tilt	1:1	0.128	1.247	0.160	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg (mW/g) Averaged over 1 gram					

UMTS Band 2 Head SAR- Main #2 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)			(W/kg)		(W/kg)	
1 880	9400	RMC	24.5	23.38	0.16	Left Cheek	1:1	0.248	1.294	0.321	-
1 880	9400	RMC	24.5	23.38	0.19	Left Tilt	1:1	0.076	1.294	0.098	-
1 880	9400	RMC	24.5	23.38	-0.12	Right Cheek	1:1	0.289	1.294	0.374	6
1 880	9400	RMC	24.5	23.38	0.05	Right Tilt	1:1	0.203	1.294	0.263	-
ANSI/ IEEE C95.1 - 2005- Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg (mW/g) Averaged over 1 gram					

LTE Band 7 Head SAR– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
2 510	20850	QPSK	20	25.0	23.42	-0.02	Left Cheek	0	1	0	1:1	0.362	1.439	0.521	7
2 510	20850	QPSK	20	24.0	22.65	0.11	Left Cheek	1	50	0	1:1	0.304	1.365	0.415	-
2 510	20850	QPSK	20	25.0	23.42	0.03	Left Tilt	0	1	0	1:1	0.124	1.439	0.178	-
2 510	20850	QPSK	20	24.0	22.65	0.13	Left Tilt	1	50	0	1:1	0.097	1.365	0.132	-
2 510	20850	QPSK	20	25.0	23.42	-0.15	Right Cheek	0	1	0	1:1	0.231	1.439	0.332	-
2 510	20850	QPSK	20	24.0	22.65	0.11	Right Cheek	1	50	0	1:1	0.190	1.365	0.259	-
2 510	20850	QPSK	20	25.0	23.42	0.14	Right Tilt	0	1	0	1:1	0.221	1.439	0.318	-
2 510	20850	QPSK	20	24.0	22.65	0.16	Right Tilt	1	50	0	1:1	0.185	1.365	0.253	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

LTE Band 12 Head SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
707.5	23095	QPSK	10	25.5	24.15	-0.11	Left Cheek	0	1	24	1:1	0.260	1.365	0.355	-
707.5	23095	QPSK	10	24.5	23.28	0.11	Left Cheek	1	25	12	1:1	0.203	1.324	0.269	-
707.5	23095	QPSK	10	25.5	24.15	0.10	Left Tilt	0	1	24	1:1	0.107	1.365	0.146	-
707.5	23095	QPSK	10	24.5	23.28	0.02	Left Tilt	1	25	12	1:1	0.089	1.324	0.118	-
707.5	23095	QPSK	10	25.5	24.15	0.11	Right Cheek	0	1	24	1:1	0.282	1.365	0.385	8
707.5	23095	QPSK	10	24.5	23.28	-0.12	Right Cheek	1	25	12	1:1	0.276	1.324	0.365	-
707.5	23095	QPSK	10	25.5	24.15	0.11	Right Tilt	0	1	24	1:1	0.135	1.365	0.184	-
707.5	23095	QPSK	10	24.5	23.28	-0.18	Right Tilt	1	25	12	1:1	0.115	1.324	0.152	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

LTE Band 13 Head SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
782	23230	QPSK	10	25.0	24.00	-0.13	Left Cheek	0	1	24	1:1	0.163	1.259	0.205	-
782	23230	QPSK	10	24.0	23.09	-0.16	Left Cheek	1	25	0	1:1	0.135	1.233	0.166	-
782	23230	QPSK	10	25.0	24.00	0.04	Left Tilt	0	1	24	1:1	0.095	1.259	0.120	-
782	23230	QPSK	10	24.0	23.09	0.14	Left Tilt	1	25	0	1:1	0.077	1.233	0.095	-
782	23230	QPSK	10	25.0	24.00	0.17	Right Cheek	0	1	24	1:1	0.183	1.259	0.230	9
782	23230	QPSK	10	24.0	23.09	0.01	Right Cheek	1	25	0	1:1	0.160	1.233	0.197	-
782	23230	QPSK	10	25.0	24.00	-0.11	Right Tilt	0	1	24	1:1	0.098	1.259	0.123	-
782	23230	QPSK	10	24.0	23.09	0.06	Right Tilt	1	25	0	1:1	0.082	1.233	0.101	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

LTE Band 14 Head SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
793	23330	QPSK	10	25.5	24.55	-0.15	Left Cheek	0	1	24	1:1	0.131	1.245	0.163	-
793	23330	QPSK	10	24.5	23.58	-0.15	Left Cheek	1	25	0	1:1	0.110	1.236	0.136	-
793	23330	QPSK	10	25.5	24.55	0.11	Left Tilt	0	1	24	1:1	0.079	1.245	0.098	-
793	23330	QPSK	10	24.5	23.58	0.10	Left Tilt	1	25	0	1:1	0.065	1.236	0.080	-
793	23330	QPSK	10	25.5	24.55	-0.16	Right Cheek	0	1	24	1:1	0.146	1.245	0.182	10
793	23330	QPSK	10	24.5	23.58	0.15	Right Cheek	1	25	0	1:1	0.115	1.236	0.142	-
793	23330	QPSK	10	25.5	24.55	-0.18	Right Tilt	0	1	24	1:1	0.081	1.245	0.101	-
793	23330	QPSK	10	24.5	23.58	-0.13	Right Tilt	1	25	0	1:1	0.065	1.236	0.080	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

LTE Band 25 Head SAR – Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
1 882.5	26365	QPSK	20	25.0	24.07	-0.09	Left Cheek	0	1	49	1:1	0.433	1.239	0.536	11
1 882.5	26365	QPSK	20	24.0	23.12	0.10	Left Cheek	1	50	0	1:1	0.332	1.225	0.407	-
1 882.5	26365	QPSK	20	25.0	24.07	0.13	Left Tilt	0	1	49	1:1	0.163	1.239	0.202	-
1 882.5	26365	QPSK	20	24.0	23.12	-0.02	Left Tilt	1	50	0	1:1	0.121	1.225	0.148	-
1 882.5	26365	QPSK	20	25.0	24.07	0.12	Right Cheek	0	1	49	1:1	0.321	1.239	0.398	-
1 882.5	26365	QPSK	20	24.0	23.12	0.12	Right Cheek	1	50	0	1:1	0.248	1.225	0.304	-
1 882.5	26365	QPSK	20	25.0	24.07	-0.01	Right Tilt	0	1	49	1:1	0.193	1.239	0.239	-
1 882.5	26365	QPSK	20	24.0	23.12	-0.10	Right Tilt	1	50	0	1:1	0.154	1.225	0.189	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

LTE Band 25 Head SAR (RCV on) – Sub #1 Ant.															
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.														
1 882.5	26365	QPSK	20	20.0	18.77	-0.09	Left Cheek	0	1	0	1:1	0.653	1.327	0.867	-
1 860	26140	QPSK	20	20.0	18.71	-0.06	Left Cheek	0	1	99	1:1	0.710	1.346	0.956	12
1 905	26590	QPSK	20	20.0	18.46	0.07	Left Cheek	0	1	0	1:1	0.642	1.426	0.915	-
1 860	26140	QPSK	20	20.0	19.03	-0.02	Left Cheek	0	50	0	1:1	0.653	1.250	0.816	-
1 882.5	26365	QPSK	20	20.0	18.94	-0.04	Left Cheek	0	50	0	1:1	0.699	1.276	0.892	-
1 905	26590	QPSK	20	20.0	18.87	0.03	Left Cheek	0	50	0	1:1	0.641	1.297	0.831	-
1 860	26140	QPSK	20	20.0	18.93	0.02	Left Cheek	0	100	0	1:1	0.686	1.279	0.877	-
1 882.5	26365	QPSK	20	20.0	18.77	-0.03	Left Tilt	0	1	0	1:1	0.337	1.327	0.447	-
1 860	26140	QPSK	20	20.0	19.03	0.05	Left Tilt	0	50	0	1:1	0.332	1.250	0.415	-
1 882.5	26365	QPSK	20	20.0	18.77	-0.10	Right Cheek	0	1	0	1:1	0.341	1.327	0.453	-
1 860	26140	QPSK	20	20.0	19.03	0.02	Right Cheek	0	50	0	1:1	0.340	1.250	0.425	-
1 882.5	26365	QPSK	20	20.0	18.77	0.03	Right Tilt	0	1	0	1:1	0.355	1.327	0.471	-
1 860	26140	QPSK	20	20.0	19.03	0.05	Right Tilt	0	50	0	1:1	0.349	1.250	0.436	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

LTE Band 26 Head SAR– Main #1 Ant.															
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)	Size	Offset		(W/kg)		(W/kg)	
831.5	26865	QPSK	15	25.5	23.83	-0.13	Left Cheek	0	1	0	1:1	0.267	1.469	0.392	-
831.5	26865	QPSK	15	24.5	22.81	0.15	Left Cheek	1	36	0	1:1	0.204	1.476	0.301	-
831.5	26865	QPSK	15	25.5	23.83	0.09	Left Tilt	0	1	0	1:1	0.129	1.469	0.190	-
831.5	26865	QPSK	15	24.5	22.81	-0.00	Left Tilt	1	36	0	1:1	0.097	1.476	0.143	-
831.5	26865	QPSK	15	25.5	23.83	0.16	Right Cheek	0	1	0	1:1	0.319	1.469	0.469	13
831.5	26865	QPSK	15	24.5	22.81	-0.13	Right Cheek	1	36	0	1:1	0.250	1.476	0.369	-
831.5	26865	QPSK	15	25.5	23.83	0.14	Right Tilt	0	1	0	1:1	0.159	1.469	0.234	-
831.5	26865	QPSK	15	24.5	22.81	0.16	Right Tilt	1	36	0	1:1	0.122	1.476	0.180	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

LTE Band 30 Head SAR– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
2 310	27710	QPSK	10	24.0	22.86	0.07	Left Cheek	0	1	49	1:1	0.278	1.300	0.361	14
2 310	27710	QPSK	10	23.0	21.94	-0.10	Left Cheek	1	25	12	1:1	0.186	1.276	0.237	-
2 310	27710	QPSK	10	24.0	22.86	0.07	Left Tilt	0	1	49	1:1	0.062	1.300	0.081	-
2 310	27710	QPSK	10	23.0	21.94	-0.12	Left Tilt	1	25	12	1:1	0.050	1.276	0.064	-
2 310	27710	QPSK	10	24.0	22.86	-0.13	Right Cheek	0	1	49	1:1	0.158	1.300	0.205	-
2 310	27710	QPSK	10	23.0	21.94	0.10	Right Cheek	1	25	12	1:1	0.128	1.276	0.163	-
2 310	27710	QPSK	10	24.0	22.86	0.19	Right Tilt	0	1	49	1:1	0.117	1.300	0.152	-
2 310	27710	QPSK	10	23.0	21.94	0.19	Right Tilt	1	25	12	1:1	0.087	1.276	0.111	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

LTE Band 40 Head SAR _ Upper Frequency Range– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
2 355	39200	QPSK	10	14.0	12.95	0.11	Left Cheek	0	1	24	1:1.58	0.00499	1.135	0.006	-
2 355	39200	QPSK	10	14.0	12.97	0.16	Left Cheek	0	25	12	1:1.58	0.0063	1.130	0.008	15
2 355	39200	QPSK	10	14.0	12.95	0.16	Left Tilt	0	1	24	1:1.58	0.00104	1.135	0.001	-
2 355	39200	QPSK	10	14.0	12.97	0.13	Left Tilt	0	25	12	1:1.58	0.000693	1.130	0.001	-
2 355	39200	QPSK	10	14.0	12.95	0.00	Right Cheek	0	1	24	1:1.58	0.000	1.135	0.000	-
2 355	39200	QPSK	10	14.0	12.97	0.00	Right Cheek	0	25	12	1:1.58	0.000	1.130	0.000	-
2 355	39200	QPSK	10	14.0	12.95	0.00	Right Tilt	0	1	24	1:1.58	0.000	1.135	0.000	-
2 355	39200	QPSK	10	14.0	12.97	0.00	Right Tilt	0	25	12	1:1.58	0.000	1.130	0.000	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

LTE Band 40 Head SAR _ Lower Frequency Range– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
2 310	38750	QPSK	10	14.0	12.98	0.19	Left Cheek	0	1	24	1:1.58	0.00363	1.265	0.005	-
2 310	38750	QPSK	10	14.0	13.15	0.01	Left Cheek	0	25	12	1:1.58	0.00495	1.216	0.006	16
2 310	38750	QPSK	10	14.0	12.98	0.00	Left Tilt	0	1	24	1:1.58	0.00011	1.265	0.000	-
2 310	38750	QPSK	10	14.0	13.15	0.00	Left Tilt	0	25	12	1:1.58	0.000139	1.216	0.000	-
2 310	38750	QPSK	10	14.0	12.98	0.00	Right Cheek	0	1	24	1:1.58	0.000	1.265	0.000	-
2 310	38750	QPSK	10	14.0	13.15	0.00	Right Cheek	0	25	12	1:1.58	0.000	1.216	0.000	-
2 310	38750	QPSK	10	14.0	12.98	-0.01	Right Tilt	0	1	24	1:1.58	0.000	1.265	0.000	-
2 310	38750	QPSK	10	14.0	13.15	0.01	Right Tilt	0	25	12	1:1.58	0.000	1.216	0.000	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

	LTE Band 41 Head SAR– Main #2 Ant.															
	Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)						(W/kg)	
	2 680	41490	QPSK	20	25.0	23.88	-0.13	Left Cheek	0	1	0	1:1.58	0.108	1.294	0.140	-
	2 680	41490	QPSK	20	24.0	23.13	0.10	Left Cheek	1	50	0	1:1.58	0.096	1.222	0.117	-
	2 680	41490	QPSK	20	25.0	23.88	0.04	Left Tilt	0	1	0	1:1.58	0.031	1.294	0.040	-
	2 680	41490	QPSK	20	24.0	23.13	0.10	Left Tilt	1	50	0	1:1.58	0.025	1.222	0.031	-
	2 680	41490	QPSK	20	25.0	23.88	0.00	Right Cheek	0	1	0	1:1.58	0.096	1.294	0.124	-
	2 680	41490	QPSK	20	24.0	23.13	0.00	Right Cheek	1	50	0	1:1.58	0.061	1.222	0.075	-
	2 680	41490	QPSK	20	25.0	23.88	-0.18	Right Tilt	0	1	0	1:1.58	0.061	1.294	0.079	-
	2 680	41490	QPSK	20	24.0	23.13	-0.17	Right Tilt	1	50	0	1:1.58	0.053	1.222	0.065	-
Power class 2 (HPUE)																
	2 680	41490	QPSK	20	27.5	27.03	0.01	Left Cheek	0	1	0	1:2.31	0.149	1.250	0.166	
Up-link Carrier Aggregation Power class 3 (41C)																
PCC	2 680	41490	QPSK	20	25.0	24.00	0.10	Left Cheek	0	1	0	1:1.58	0.142	1.259	0.179	*
SCC	2 660.2	41292		20						1	99					
Up-link Carrier Aggregation Power class 2 (41C)																
PCC	2 680	41490	QPSK	20	27.5	27.05	-0.12	Left Cheek	0	1	0	1:2.31	0.180	1.109	0.200	**17
SCC	2 660.2	41292		20						1	99					
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Head 1.6 W/kg Averaged over 1 gram							

Note: * Up-link Carrier Aggregation Power class 3 (41C)

** Up-link Carrier Aggregation Power class 2 (HPUE) (41C)

LTE Band 48 Head SAR (RCV on) – Sub #3 Ant.															
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)	(dB)					(W/kg)	
3 560	55340	QPSK	20	21.0	20.07	0.12	Left Cheek	0	1	0	1:1.58	0.202	1.239	0.250	-
3 560	55340	QPSK	20	21.0	20.00	0.11	Left Cheek	0	50	25	1:1.58	0.201	1.259	0.253	-
3 560	55340	QPSK	20	21.0	20.07	0.10	Left Tilt	0	1	0	1:1.58	0.160	1.239	0.198	-
3 560	55340	QPSK	20	21.0	20.00	0.17	Left Tilt	0	50	25	1:1.58	0.161	1.259	0.203	-
3 560	55340	QPSK	20	21.0	20.07	0.01	Right Cheek	0	1	0	1:1.58	0.786	1.239	0.974	-
3 603.3	55773	QPSK	20	21.0	19.96	-0.14	Right Cheek	0	1	0	1:1.58	0.736	1.271	0.935	-
3 646.7	56207	QPSK	20	21.0	20.06	0.10	Right Cheek	0	1	0	1:1.58	0.798	1.242	0.991	-
3 690	56640	QPSK	20	21.0	19.61	0.10	Right Cheek	0	1	0	1:1.58	0.732	1.377	1.008	-
3 560	55340	QPSK	20	21.0	20.00	0.14	Right Cheek	0	50	25	1:1.58	0.803	1.259	1.011	-
3 603.3	55773	QPSK	20	21.0	19.99	0.15	Right Cheek	0	50	25	1:1.58	0.785	1.262	0.991	-
3 646.7	56207	QPSK	20	21.0	19.98	0.10	Right Cheek	0	50	25	1:1.58	0.803	1.265	1.016	-
3 690	56640	QPSK	20	21.0	19.65	-0.15	Right Cheek	0	50	25	1:1.58	0.757	1.365	1.033	18
3 560	55340	QPSK	20	21.0	20.06	-0.16	Right Cheek	0	100	0	1:1.58	0.804	1.242	0.998	19
3 560	55340	QPSK	20	21.0	20.07	0.10	Right Tilt	0	1	0	1:1.58	0.364	1.239	0.451	-
3 560	55340	QPSK	20	21.0	20.00	0.10	Right Tilt	0	50	25	1:1.58	0.374	1.259	0.471	-
3 560	55340	QPSK	20	21.0	20.06	0.10	Right Cheek	0	100	0	1:1.58	0.803	1.242	0.997	*
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

Note: * Data entry indicate Variability measurement.

LTE Band 66_ Head SAR – Main #2 Ant.															
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)	(W/kg)				(W/kg)	(W/kg)	
1 720	132072	QPSK	20	25.0	24.17	-0.17	Left Cheek	0	1	49	1:1	0.258	1.211	0.312	20
1 720	132072	QPSK	20	24.0	23.43	0.14	Left Cheek	1	50	25	1:1	0.226	1.140	0.258	-
1 720	132072	QPSK	20	25.0	24.17	0.09	Left Tilt	0	1	49	1:1	0.162	1.211	0.196	-
1 720	132072	QPSK	20	24.0	23.43	-0.07	Left Tilt	1	50	25	1:1	0.143	1.140	0.163	-
1 720	132072	QPSK	20	25.0	24.17	0.15	Right Cheek	0	1	49	1:1	0.200	1.211	0.242	-
1 720	132072	QPSK	20	24.0	23.43	0.14	Right Cheek	1	50	25	1:1	0.179	1.140	0.204	-
1 720	132072	QPSK	20	25.0	24.17	0.14	Right Tilt	0	1	49	1:1	0.128	1.211	0.155	-
1 720	132072	QPSK	20	24.0	23.43	0.08	Right Tilt	1	50	25	1:1	0.114	1.140	0.130	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

LTE Band 66 Head SAR (RCV on) – Sub #1 Ant.															
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)	(W/kg)	(W/kg)					
1 770	132572	QPSK	20	20.0	19.10	0.05	Left Cheek	0	1	0	1:1	0.527	1.230	0.648	-
1 770	132572	QPSK	20	20.0	18.77	0.01	Left Cheek	0	50	0	1:1	0.564	1.327	0.748	21
1 770	132572	QPSK	20	20.0	19.10	0.04	Left Tilt	0	1	0	1:1	0.272	1.230	0.335	-
1 770	132572	QPSK	20	20.0	18.77	-0.05	Left Tilt	0	50	0	1:1	0.275	1.327	0.365	-
1 770	132572	QPSK	20	20.0	19.10	-0.08	Right Cheek	0	1	0	1:1	0.278	1.230	0.342	-
1 770	132572	QPSK	20	20.0	18.77	0.04	Right Cheek	0	50	0	1:1	0.241	1.327	0.320	-
1 770	132572	QPSK	20	20.0	19.10	-0.04	Right Tilt	0	1	0	1:1	0.240	1.230	0.295	-
1 770	132572	QPSK	20	20.0	18.77	0.05	Right Tilt	0	50	0	1:1	0.204	1.327	0.271	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

LTE Band 71 Head SAR– Main #1 Ant.															
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(W/kg)		
680.5	133297	QPSK	10	25.5	23.96	-0.14	Left Cheek	0	1	0	1:1	0.202	1.426	0.288	-
680.5	133297	QPSK	10	24.5	22.98	0.19	Left Cheek	1	25	0	1:1	0.164	1.419	0.233	-
680.5	133297	QPSK	10	25.5	23.96	0.09	Left Tilt	0	1	0	1:1	0.076	1.426	0.108	-
680.5	133297	QPSK	10	24.5	22.98	0.19	Left Tilt	1	25	0	1:1	0.068	1.419	0.096	-
680.5	133297	QPSK	10	25.5	23.96	0.13	Right Cheek	0	1	0	1:1	0.225	1.426	0.321	22
680.5	133297	QPSK	10	24.5	22.98	0.14	Right Cheek	1	25	0	1:1	0.164	1.419	0.233	-
680.5	133297	QPSK	10	25.5	23.96	0.16	Right Tilt	0	1	0	1:1	0.098	1.426	0.140	-
680.5	133297	QPSK	10	24.5	22.98	0.04	Right Tilt	1	25	0	1:1	0.073	1.419	0.104	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

NR Band n5 (Cell) Head SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.88	-0.18	Left Cheek	0	1	1	1:1	0.279	1.294	0.361	-
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.84	-0.18	Left Cheek	0	50	28	1:1	0.273	1.306	0.357	-
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.88	-0.09	Left Tilt	0	1	1	1:1	0.138	1.294	0.179	-
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.84	0.03	Left Tilt	0	50	28	1:1	0.150	1.306	0.196	-
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.88	0.06	Right Cheek	0	1	1	1:1	0.342	1.294	0.443	23
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.84	-0.10	Right Cheek	0	50	28	1:1	0.322	1.306	0.421	-
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.88	0.13	Right Tilt	0	1	1	1:1	0.178	1.294	0.230	-
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.84	-0.19	Right Tilt	0	50	28	1:1	0.165	1.306	0.215	-
836.5	167300	CP OFDM QPSK	20	23.5	22.35	-0.06	Right Cheek	1.5	1	1	1:1	0.278	1.303	0.362	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

NR Band n12 Head SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.73	-0.17	Left Cheek	0	1	77	1:1	0.191	1.340	0.256	-
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.69	-0.17	Left Cheek	0	36	22	1:1	0.158	1.352	0.214	-
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.73	-0.01	Left Tilt	0	1	77	1:1	0.089	1.340	0.119	-
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.69	0.02	Left Tilt	0	36	22	1:1	0.064	1.352	0.087	-
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.73	-0.18	Right Cheek	0	1	77	1:1	0.203	1.340	0.272	24
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.69	-0.13	Right Cheek	0	36	22	1:1	0.192	1.352	0.260	-
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.73	-0.13	Right Tilt	0	1	77	1:1	0.093	1.340	0.125	-
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.69	-0.19	Right Tilt	0	36	22	1:1	0.088	1.352	0.119	-
707.5	141500	CP OFDM QPSK	15	23.5	22.12	-0.13	Right Cheek	1.5	1	1	1:1	0.134	1.374	0.184	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

NR Band n25 Head SAR– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.69	-0.12	Left Cheek	0	1	108	1:1	0.386	1.205	0.465	25
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.96	0.03	Left Cheek	0	108	54	1:1	0.405	1.132	0.458	26
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.69	0.12	Left Tilt	0	1	108	1:1	0.145	1.205	0.175	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.96	0.12	Left Tilt	0	108	54	1:1	0.164	1.132	0.186	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.69	-0.08	Right Cheek	0	1	108	1:1	0.332	1.205	0.400	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.96	-0.05	Right Cheek	0	108	54	1:1	0.310	1.132	0.351	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.69	-0.03	Right Tilt	0	1	108	1:1	0.164	1.205	0.198	-
1 882.5	376500	DFT-s OFDM QPSK	40	24.5	23.96	0.04	Right Tilt	0	108	54	1:1	0.165	1.132	0.187	-
1 882.5	376500	CP OFDM QPSK	40	23.0	21.97	-0.16	Left Cheek	1.5	1	1	1:1	0.284	1.268	0.360	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

NR Band n30 Head SAR– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.25	-0.16	Left Cheek	0	1	1	1:1	0.307	1.334	0.410	27
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.20	0.16	Left Cheek	0	25	14	1:1	0.306	1.349	0.413	28
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.25	0.13	Left Tilt	0	1	1	1:1	0.069	1.334	0.092	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.20	-0.14	Left Tilt	0	25	14	1:1	0.076	1.349	0.103	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.25	-0.14	Right Cheek	0	1	1	1:1	0.170	1.334	0.227	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.20	-0.19	Right Cheek	0	25	14	1:1	0.138	1.349	0.186	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.25	0.16	Right Tilt	0	1	1	1:1	0.112	1.334	0.149	-
2 310	462000	DFT-s OFDM QPSK	10	24.5	23.20	0.15	Right Tilt	0	25	14	1:1	0.109	1.349	0.147	-
2 310	462000	CP OFDM QPSK	10	23.0	21.65	-0.12	Left Cheek	1.5	1	1	1:1	0.175	1.365	0.239	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

NR Band n41 PC3 Head SAR– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	0.07	Left Cheek	0	1	1	1:1	0.282	1.151	0.325	-
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	0.10	Left Cheek	0	135	69	1:1	0.335	1.151	0.386	29
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	-0.16	Left Tilt	0	1	1	1:1	0.099	1.151	0.114	-
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	0.08	Left Tilt	0	135	69	1:1	0.098	1.151	0.113	-
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	-0.10	Right Cheek	0	1	1	1:1	0.205	1.151	0.236	-
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	-0.05	Right Cheek	0	135	69	1:1	0.254	1.151	0.292	-
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	0.13	Right Tilt	0	1	1	1:1	0.182	1.151	0.209	-
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	0.16	Right Tilt	0	135	69	1:1	0.175	1.151	0.201	-
2 592.99	518598	CP OFDM QPSK	100	22.0	21.22	-0.13	Left Cheek	0	1	1	1:1	0.183	1.197	0.219	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

NR Band n66 Head SAR– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
1 745	349000	DFT-s OFDM QPSK	40	25.0	24.34	0.13	Left Cheek	0	1	108	1:1	0.340	1.164	0.396	-
1 745	349000	DFT-s OFDM QPSK	40	25.0	24.50	-0.04	Left Cheek	0	108	54	1:1	0.329	1.122	0.369	-
1 745	349000	DFT-s OFDM QPSK	40	25.0	24.34	-0.04	Left Tilt	0	1	108	1:1	0.221	1.164	0.257	-
1 745	349000	DFT-s OFDM QPSK	40	25.0	24.50	0.05	Left Tilt	0	108	54	1:1	0.233	1.122	0.261	-
1 745	349000	DFT-s OFDM QPSK	40	25.0	24.34	-0.14	Right Cheek	0	1	108	1:1	0.372	1.164	0.433	30
1 745	349000	DFT-s OFDM QPSK	40	25.0	24.50	-0.18	Right Cheek	0	108	54	1:1	0.351	1.122	0.394	-
1 745	349000	DFT-s OFDM QPSK	40	25.0	24.34	0.13	Right Tilt	0	1	108	1:1	0.178	1.164	0.207	-
1 745	349000	DFT-s OFDM QPSK	40	25.0	24.50	0.17	Right Tilt	0	108	54	1:1	0.178	1.122	0.200	-
1 745	349000	DFT-s OFDM	40	23.5	22.95	-0.17	Right Cheek	1.5	1	1	1:1	0.171	1.135	0.194	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

NR Band n71 Head SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.85	-0.12	Left Cheek	0	1	1	1:1	0.193	1.303	0.251	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.46	-0.10	Left Cheek	0	50	28	1:1	0.190	1.426	0.271	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.85	-0.06	Left Tilt	0	1	1	1:1	0.083	1.303	0.108	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.46	0.03	Left Tilt	0	50	28	1:1	0.088	1.426	0.125	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.85	-0.12	Right Cheek	0	1	1	1:1	0.224	1.303	0.292	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.46	-0.15	Right Cheek	0	50	28	1:1	0.229	1.426	0.327	31
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.85	-0.11	Right Tilt	0	1	1	1:1	0.096	1.303	0.125	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.46	-0.07	Right Tilt	0	50	28	1:1	0.113	1.426	0.161	-
680.5	136100	CP OFDM QPSK	20	23.5	22.24	-0.18	Right Cheek	1.5	1	1	1:1	0.166	1.337	0.222	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

NR Band n77 Head SAR– Sub #3 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.87	-0.11	Left Cheek	0	1	271	1:1	0.106	1.156	0.123	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.95	-0.11	Left Cheek	0	135	69	1:1	0.126	1.135	0.143	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.87	0.14	Left Tilt	0	1	271	1:1	0.112	1.156	0.129	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.95	0.00	Left Tilt	0	135	69	1:1	0.080	1.135	0.091	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.87	0.14	Right Cheek	0	1	271	1:1	0.636	1.156	0.735	-
3 930	662000	DFT-s OFDM QPSK	100	18.5	17.41	0.12	Right Cheek	0	1	1	1:1	0.532	1.285	0.684	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.95	0.10	Right Cheek	0	135	69	1:1	0.742	1.135	0.842	32
3 930	662000	DFT-s OFDM QPSK	100	18.5	17.32	0.10	Right Cheek	0	135	0	1:1	0.514	1.312	0.674	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.89	0.12	Right Cheek	0	270	0	1:1	0.684	1.151	0.787	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.87	0.12	Right Tilt	0	1	271	1:1	0.311	1.156	0.360	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.95	0.00	Right Tilt	0	135	69	1:1	0.253	1.135	0.287	-
3 750	650000	CP OFDM QPSK	100	18.5	17.81	0.19	Right Cheek	0	1	1	1:1	0.436	1.172	0.511	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

NR Band n77 Head SAR– SRS

Frequency		Mode	Antenna	Band width	Tune- Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)		(W/kg)		(W/kg)			
3 750	650000	SRS 1	Sub #5	100	16.0	14.33	-0.10	Left Cheek	0	1	1	1:3.70	0.420	1.469	0.617	-
3 750	650000	SRS 1	Sub #5	100	16.0	14.33	0.02	Left Tilt	0	1	1	1:3.70	0.212	1.469	0.311	-
3 750	650000	SRS 1	Sub #5	100	16.0	14.33	0.13	Right Cheek	0	1	1	1:3.70	0.092	1.469	0.135	-
3 750	650000	SRS 1	Sub #5	100	16.0	14.33	0.11	Right Tilt	0	1	1	1:3.70	0.113	1.469	0.166	-
3 930	662000	SRS 2	Main #2	100	17.0	16.81	0.00	Left Cheek	0	1	1	1:3.70	0.021	1.045	0.022	-
3 930	662000	SRS 2	Main #2	100	17.0	16.81	0.00	Left Tilt	0	1	1	1:3.70	0.00736	1.045	0.008	-
3 930	662000	SRS 2	Main #2	100	17.0	16.81	0.00	Right Cheek	0	1	1	1:3.70	0.012	1.045	0.013	-
3 930	662000	SRS 2	Main #2	100	17.0	16.81	0.00	Right Tilt	0	1	1	1:3.70	0.00504	1.045	0.005	-
3 750	650000	SRS 3	Main #3	100	18.5	16.21	0.00	Left Cheek	0	1	1	1:3.70	0.000	1.694	0.000	-
3 750	650000	SRS 3	Main #3	100	18.5	16.21	0.00	Left Tilt	0	1	1	1:3.70	0.000	1.694	0.000	-
3 750	650000	SRS 3	Main #3	100	18.5	16.21	0.00	Right Cheek	0	1	1	1:3.70	0.000	1.694	0.000	-
3 750	650000	SRS 3	Main #3	100	18.5	16.21	0.00	Right Tilt	0	1	1	1:3.70	0.000	1.694	0.000	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram								

NR Band n77DoD Head SAR– Sub #3 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(W/kg)		(W/kg)	
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.54	-0.17	Left Cheek	0	1	137	1:1	0.121	1.247	0.151	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.56	-0.01	Left Cheek	0	135	138	1:1	0.128	1.242	0.159	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.54	-0.18	Left Tilt	0	1	137	1:1	0.085	1.247	0.106	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.56	-0.10	Left Tilt	0	135	138	1:1	0.076	1.242	0.094	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.54	0.08	Right Cheek	0	1	137	1:1	0.718	1.247	0.896	33
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.56	0.17	Right Cheek	0	135	138	1:1	0.638	1.242	0.792	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.51	-0.11	Right Cheek	0	270	0	1:1	0.600	1.256	0.754	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.54	0.11	Right Tilt	0	1	137	1:1	0.302	1.247	0.377	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.56	0.16	Right Tilt	0	135	138	1:1	0.353	1.242	0.438	-
3 500.01	633334	CP OFDM QPSK	100	18.5	17.51	-0.13	Right Cheek	0	1	1	1:1	0.623	1.256	0.783	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Head 1.6 W/kg Averaged over 1 gram							

NR Band n77DoD Head SAR– SRS

Frequency		Mode	Antenna	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty Cycle	Meas. SAR	Scaling	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)	Size	Offset		(W/kg)	Factor	(W/kg)	
3 500.01	633334	SRS 1	Sub #5	100	16.0	14.92	-0.16	Left Cheek	0	1	1	1:3.70	0.525	1.282	0.673	-
3 500.01	633334	SRS 1	Sub #5	100	16.0	14.92	0.18	Left Tilt	0	1	1	1:3.70	0.121	1.282	0.155	-
3 500.01	633334	SRS 1	Sub #5	100	16.0	14.92	-0.18	Right Cheek	0	1	1	1:3.70	0.085	1.282	0.109	-
3 500.01	633334	SRS 1	Sub #5	100	16.0	14.92	0.18	Right Tilt	0	1	1	1:3.70	0.041	1.282	0.053	-
3 500.01	633334	SRS 2	Main #2	100	17.0	16.50	-0.10	Left Cheek	0	1	1	1:3.70	0.018	1.122	0.020	-
3 500.01	633334	SRS 2	Main #2	100	17.0	16.50	0.00	Left Tilt	0	1	1	1:3.70	0.00379	1.122	0.004	-
3 500.01	633334	SRS 2	Main #2	100	17.0	16.50	0.00	Right Cheek	0	1	1	1:3.70	0.014	1.122	0.016	-
3 500.01	633334	SRS 2	Main #2	100	17.0	16.50	0.12	Right Tilt	0	1	1	1:3.70	0.00958	1.122	0.011	-
3 500.01	633334	SRS 3	Main #3	100	18.5	17.70	0.00	Left Cheek	0	1	1	1:3.70	0.000	1.202	0.000	-
3 500.01	633334	SRS 3	Main #3	100	18.5	17.70	0.00	Left Tilt	0	1	1	1:3.70	0.000	1.202	0.000	-
3 500.01	633334	SRS 3	Main #3	100	18.5	17.70	0.00	Right Cheek	0	1	1	1:3.70	0.000	1.202	0.000	-
3 500.01	633334	SRS 3	Main #3	100	18.5	17.70	0.00	Right Tilt	0	1	1	1:3.70	0.000	1.202	0.000	-
	ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Head 1.6 W/kg Averaged over 1 gram								

DTS Head SAR (RCV on)																
Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant. Config.	Duty Cycle	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(Mbps)	(dBm)	(dBm)	(dB)				(W/kg)	(W/kg)		(Duty)	(W/kg)	
2 412	1	802.11b	20	1	13.0	11.48	-0.01	Left Cheek	Ant.2	98.8	0.0440	0.012	1.419	1.013	0.017	-
2 412	1	802.11b	20	1	13.0	11.48	-0.13	Left Tilt	Ant.2	98.8	0.0110	0.00232	1.419	1.013	0.003	-
2 412	1	802.11b	20	1	13.0	11.48	0.12	Right Cheek	Ant.2	98.8	0.0728	0.031	1.419	1.013	0.045	34
2 412	1	802.11b	20	1	13.0	11.48	-0.12	Right Tilt	Ant.2	98.8	0.0122	0.00698	1.419	1.013	0.010	-
2 412	1	802.11b	20	1	16.0	14.77	-0.19	Left Cheek	MIMO	98.8	0.0307	0.016	1.419	1.013	0.023	-
2 412	1	802.11b	20	1	16.0	14.77	-0.17	Left Tilt	MIMO	98.8	0.0136	0.00508	1.419	1.013	0.007	-
2 412	1	802.11b	20	1	16.0	14.77	0.01	Right Cheek	MIMO	98.8	0.157	0.030	1.419	1.013	0.043	-
2 412	1	802.11b	20	1	16.0	14.77	0.01	Right Tilt	MIMO	98.8	0.0354	0.018	1.419	1.013	0.026	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Head 1.6 W/kg Averaged over 1 gram							

NII Head SAR (RCV on)																
Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant. Config.	Duty Cycle	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(Mbps)	(dBm)	(dBm)	(dB)				(W/kg)	(W/kg)		(Duty)	(W/kg)	
5 290	58	802.11ac	80	MCS0	14.0	13.41	0.00	Left Cheek	MIMO	89.3	0.000	0.000	1.183	1.120	0.000	-
5 290	58	802.11ac	80	MCS0	14.0	13.41	0.01	Left Tilt	MIMO	89.3	0.0615	0.024	1.183	1.120	0.032	-
5 290	58	802.11ac	80	MCS0	14.0	13.41	-0.11	Right Cheek	MIMO	89.3	0.100	0.031	1.183	1.120	0.041	-
5 290	58	802.11ac	80	MCS0	14.0	13.41	0.13	Right Tilt	MIMO	89.3	0.228	0.024	1.183	1.120	0.032	-
5 530	106	802.11ac	80	MCS0	14.0	13.58	0.13	Left Cheek	MIMO	89.3	0.0741	0.026	1.205	1.120	0.035	-
5 530	106	802.11ac	80	MCS0	14.0	13.58	-0.01	Left Tilt	MIMO	89.3	0.243	0.030	1.205	1.120	0.040	-
5 530	106	802.11ac	80	MCS0	14.0	13.58	-0.16	Right Cheek	MIMO	89.3	0.200	0.053	1.205	1.120	0.072	35
5 530	106	802.11ac	80	MCS0	14.0	13.58	-0.01	Right Tilt	MIMO	89.3	0.208	0.035	1.205	1.120	0.047	-
5 775	155	802.11ac	80	MCS0	14.0	12.35	0.00	Left Cheek	MIMO	89.3	0.000	0.000	1.567	1.120	0.000	-
5 775	155	802.11ac	80	MCS0	14.0	12.35	-0.17	Left Tilt	MIMO	89.3	0.214	0.027	1.567	1.120	0.047	-
5 775	155	802.11ac	80	MCS0	14.0	12.35	0.01	Right Cheek	MIMO	89.3	0.102	0.039	1.567	1.120	0.068	-
5 775	155	802.11ac	80	MCS0	14.0	12.35	0.01	Right Tilt	MIMO	89.3	0.136	0.024	1.567	1.120	0.042	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Head 1.6 W/kg Averaged over 1 gram							

DSS Head SAR												
Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant. Config.	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dBm)	(dBm)	(dB)			(W/kg)		(Duty)	(W/kg)	
2 402	0	Bluetooth DH5	14.5	14.42	0.15	Left Cheek	-	0.011	1.019	1.299	0.015	36
2 402	0	Bluetooth DH5	14.5	14.42	-0.17	Left Tilt	-	0.00946	1.019	1.299	0.013	-
2 402	0	Bluetooth DH5	14.5	14.42	-0.01	Right Cheek	-	0.00748	1.019	1.299	0.010	-
2 402	0	Bluetooth DH5	14.5	14.42	-0.18	Right Tilt	-	0.0058	1.019	1.299	0.008	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg Averaged over 1 gram						

13.2 Body-worn SAR Measurement Results (DSI=0)

GSM/ UMTS Body-Worn

GSM/ UMTS Body-Worn SAR – Main #1 Ant., Main #2 Ant.													
Frequency		Mode		Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(dB)	(dB)	(dB)			(mm)	(W/kg)		(W/kg)	
836.6	190	GSM 850 Voice		33.0	31.60	0.01	Rear	1:4.15	15	0.251	1.380	0.346	-
836.6	190	GSM 850 Voice		33.0	31.60	0.11	Front	1:4.15	15	0.260	1.380	0.359	-
836.6	190	GSM 850 GPRS 2Tx		31.5	30.40	0.12	Rear	1:4.15	15	0.330	1.288	0.425	37
836.6	190	GSM 850 GPRS 2Tx		31.5	30.40	-0.18	Front	1:4.15	15	0.308	1.288	0.397	-
1 880	661	GSM 1900 Voice		31.0	30.75	0.12	Rear	1:8.30	15	0.175	1.059	0.185	-
1 880	661	GSM 1900 Voice		31.0	30.75	0.08	Front	1:8.30	15	0.207	1.059	0.219	38
1 880	661	GSM 1900 GPRS 2Tx		30.0	28.68	0.03	Rear	1:4.15	15	0.174	1.355	0.236	-
1 880	661	GSM 1900 GPRS 2Tx		30.0	28.68	0.04	Front	1:4.15	15	0.205	1.355	0.278	39
836.6	4183	UMTS Band 5	RMC	23.5	22.71	-0.01	Rear	1:1	15	0.217	1.199	0.260	-
836.6	4183	UMTS Band 5	RMC	23.5	22.71	0.01	Front	1:1	15	0.240	1.199	0.288	40
1 732.4	1412	UMTS Band 4	RMC	24.5	23.54	0.09	Rear	1:1	15	0.277	1.247	0.345	-
1 732.4	1412	UMTS Band 4	RMC	24.5	23.54	0.01	Front	1:1	15	0.296	1.247	0.369	41
1 880	9400	UMTS Band 2	RMC	24.5	23.38	0.02	Rear	1:1	15	0.364	1.294	0.471	-
1 880	9400	UMTS Band 2	RMC	24.5	23.38	-0.01	Front	1:1	15	0.400	1.294	0.518	42
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram						

LTE Body-Worn

LTE Band Bodyworn SAR

LTE Band Bodyworn SAR																
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)		(W/kg)	
2 510	20850	LTE 7 QPSK Main #2 Ant	20	25.0	23.42	-0.13	Rear	0	1	0	1:1	15	0.325	1.439	0.468	-
2 510	20850		20	24.0	22.65	-0.06	Rear	1	50	0	1:1	15	0.269	1.365	0.367	-
2 510	20850		20	25.0	23.42	-0.19	Front	0	1	0	1:1	15	0.436	1.439	0.627	43
2 510	20850		20	24.0	22.65	0.11	Front	1	50	0	1:1	15	0.365	1.365	0.498	-
707.5	23095	LTE 12 QPSK Main #1 Ant	10	25.5	24.15	-0.07	Rear	0	1	24	1:1	15	0.239	1.365	0.326	44
707.5	23095		10	24.5	23.28	0.03	Rear	1	25	12	1:1	15	0.198	1.324	0.262	-
707.5	23095		10	25.5	24.15	0.01	Front	0	1	24	1:1	15	0.232	1.365	0.317	-
707.5	23095		10	24.5	23.28	-0.02	Front	1	25	12	1:1	15	0.193	1.324	0.256	-
782	23230	LTE 13 QPSK Main #1 Ant	10	25.0	24.00	0.01	Rear	0	1	24	1:1	15	0.258	1.259	0.325	45
782	23230		10	24.0	23.09	0.04	Rear	1	25	0	1:1	15	0.213	1.233	0.263	-
782	23230		10	25.0	24.00	-0.00	Front	0	1	24	1:1	15	0.240	1.259	0.302	-
782	23230		10	24.0	23.09	0.01	Front	1	25	0	1:1	15	0.200	1.233	0.247	-
793	23330	LTE 14 QPSK Main #1 Ant	10	25.5	24.55	-0.03	Rear	0	1	24	1:1	15	0.192	1.245	0.239	-
793	23330		10	24.5	23.58	-0.05	Rear	1	25	0	1:1	15	0.154	1.236	0.190	-
793	23330		10	25.5	24.55	-0.04	Front	0	1	24	1:1	15	0.197	1.245	0.245	46
793	23330		10	24.5	23.58	0.05	Front	1	25	0	1:1	15	0.154	1.236	0.190	-
1 882.5	26365	LTE 25 QPSK Main #2 Ant	20	25.0	24.07	-0.11	Rear	0	1	49	1:1	15	0.306	1.239	0.379	-
1 882.5	26365		20	24.0	23.12	-0.10	Rear	1	50	0	1:1	15	0.245	1.225	0.300	-
1 882.5	26365		20	25.0	24.07	0.00	Front	0	1	49	1:1	15	0.423	1.239	0.524	47
1 882.5	26365		20	24.0	23.12	0.02	Front	1	50	0	1:1	15	0.334	1.225	0.409	-
1 882.5	26365	LTE 25 QPSK Sub #1 Ant	20	23.0	21.21	-0.05	Rear	0	1	0	1:1	15	0.153	1.510	0.231	-
1 860	26140		20	22.0	20.56	0.05	Rear	1	50	0	1:1	15	0.189	1.393	0.263	-
1 882.5	26365		20	23.0	21.21	0.08	Front	0	1	0	1:1	15	0.177	1.510	0.267	-
1 860	26140		20	22.0	20.56	0.03	Front	1	50	0	1:1	15	0.223	1.393	0.311	48
831.5	26865	LTE 26 QPSK Main #1 Ant	15	25.5	23.83	0.01	Rear	0	1	0	1:1	15	0.280	1.469	0.411	-
831.5	26865		15	24.5	22.81	0.00	Rear	1	36	0	1:1	15	0.230	1.476	0.339	-
831.5	26865		15	25.5	23.83	-0.03	Front	0	1	0	1:1	15	0.281	1.469	0.413	49
831.5	26865		15	24.5	22.81	-0.02	Front	1	36	0	1:1	15	0.225	1.476	0.332	-
2 310	27710	LTE 30 QPSK Main #2 Ant	10	24.0	22.86	-0.11	Rear	0	1	49	1:1	15	0.157	1.300	0.204	-
2 310	27710		10	23.0	21.94	0.12	Rear	1	25	12	1:1	15	0.125	1.276	0.160	-
2 310	27710		10	24.0	22.86	0.04	Front	0	1	49	1:1	15	0.286	1.300	0.372	50
2 310	27710		10	23.0	21.94	-0.04	Front	1	25	12	1:1	15	0.228	1.276	0.291	-
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LTE Body-Worn

LTE Band Bodyworn SAR																	
Frequency			Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)		Size			(mm)	(W/kg)		(W/kg)
	2 355	39200	LTE 40 UPPER QPSK Main #2 Ant	10	14.0	12.95	-0.17	Rear	0	1	24	1:1.58	15	0.00806	1.274	0.010	-
	2 355	39200		10	14.0	12.97	-0.10	Rear	0	25	12	1:1.58	15	0.011	1.268	0.014	51
	2 355	39200		10	14.0	12.95	-0.11	Front	0	1	24	1:1.58	15	0.00845	1.274	0.011	-
	2 355	39200		10	14.0	12.97	0.12	Front	0	25	12	1:1.58	15	0.00822	1.268	0.010	-
	2 310	38750	LTE 40 LOWER QPSK Main #2 Ant	10	14.0	12.98	-0.10	Rear	0	1	24	1:1.58	15	0.00578	1.265	0.007	-
	2 310	38750		10	14.0	13.15	0.00	Rear	0	25	12	1:1.58	15	0.00679	1.216	0.008	-
	2 310	38750		10	14.0	12.98	0.18	Front	0	1	24	1:1.58	15	0.00716	1.265	0.009	-
	2 310	38750		10	14.0	13.15	-0.14	Front	0	25	12	1:1.58	15	0.00776	1.216	0.009	52
	2 680	41490	LTE 41 QPSK Main #2 Ant	20	25.0	23.88	-0.10	Rear	0	1	0	1:1.58	15	0.171	1.294	0.221	-
	2 680	41490		20	24.0	23.13	0.10	Rear	1	50	0	1:1.58	15	0.140	1.222	0.171	-
	2 680	41490		20	25.0	23.88	-0.15	Front	0	1	0	1:1.58	15	0.253	1.294	0.327	-
	2 680	41490		20	24.0	23.13	0.14	Front	1	50	0	1:1.58	15	0.167	1.222	0.204	-
	2 680	41490	LTE 41 HPUE QPSK	20	27.5	27.03	0.01	Front	0	1	0	1:2.31	15	0.326	1.250	0.363	-
Up-link Carrier Aggregation Power class 3 (41C)																	
PCC	2 680	41490	QPSK	20	25.0	24.00	-0.13	Front	0	1	0	1:1.58	15	0.326	1.259	0.410	*
SCC	2 660.2	41292								1	99						
Up-link Carrier Aggregation Power class 2 (41C)																	
PCC	2 680	41490	QPSK	20	27.5	27.05	-0.11	Front	0	1	0	1:2.31	15	0.458	1.109	0.508	53**
SCC	2 660.2	41292								1	99						
	3 603.3	55773	LTE 48 QPSK Sub #3 Ant	20	23.5	22.46	0.15	Rear	0	1	99	1:1.58	15	0.283	1.271	0.360	54
	3 603.3	55773		20	22.5	21.45	-0.12	Rear	1	50	25	1:1.58	15	0.231	1.274	0.294	-
	3 603.3	55773		20	23.5	22.46	0.11	Front	0	1	99	1:1.58	15	0.105	1.271	0.133	-
	3 603.3	55773		20	22.5	21.45	-0.12	Front	1	50	25	1:1.58	15	0.085	1.274	0.108	-
	1 720	132072	LTE 66 QPSK Main #2 Ant	20	25.0	24.17	-0.19	Rear	0	1	49	1:1	15	0.241	1.211	0.292	-
	1 720	132072		20	24.0	23.43	-0.07	Rear	1	50	25	1:1	15	0.209	1.140	0.238	-
	1 720	132072		20	25.0	24.17	0.07	Front	0	1	49	1:1	15	0.326	1.211	0.395	55
	1 720	132072		20	24.0	23.43	0.18	Front	1	50	25	1:1	15	0.294	1.140	0.335	-
	1 745	132322	LTE 66 QPSK Sub #1 Ant	20	23.0	21.69	0.03	Rear	0	1	0	1:1	15	0.134	1.352	0.181	-
	1 720	132072		20	22.0	20.90	0.04	Rear	1	50	0	1:1	15	0.144	1.288	0.185	-
	1 745	132322		20	23.0	21.69	0.14	Front	0	1	0	1:1	15	0.174	1.352	0.235	56
	1 720	132072		20	22.0	20.90	-0.08	Front	1	50	0	1:1	15	0.159	1.288	0.205	-
	680.5	133297	LTE 71 QPSK Main #1 Ant	10	25.5	23.96	0.01	Rear	0	1	0	1:1	15	0.252	1.426	0.359	57
	680.5	133297		10	24.5	22.98	0.01	Rear	1	25	0	1:1	15	0.198	1.419	0.281	-
	680.5	133297		10	25.5	23.96	0.01	Front	0	1	0	1:1	15	0.221	1.426	0.315	-
	680.5	133297		10	24.5	22.98	0.03	Front	1	25	0	1:1	15	0.171	1.419	0.243	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

Note: * Up-link Carrier Aggregation Power class 3 (41C)

** Up-link Carrier Aggregation Power class 2 (HPUE) (41C)

NR Band Body-Worn

NR Body-Worn SAR																
Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
836.5	167300	NR n5	20	25.0	23.88	-0.04	Rear	0	1	1	1:1	15	0.320	1.294	0.414	-
836.5	167300	DFT-s OFDM	20	25.0	23.84	0.00	Rear	0	50	28	1:1	15	0.319	1.306	0.417	-
836.5	167300	QPSK	20	25.0	23.88	0.00	Front	0	1	1	1:1	15	0.332	1.294	0.430	58
836.5	167300	Main #1 Ant	20	25.0	23.84	0.00	Front	0	50	28	1:1	15	0.293	1.306	0.383	-
836.5	167300	CP OFDM QPSK	20	23.5	22.35	0.02	Front	1.5	1	1	1:1	15	0.256	1.303	0.334	-
707.5	141500	NR n12	15	25.0	23.73	0.03	Rear	0	1	77	1:1	15	0.251	1.340	0.336	59
707.5	141500	DFT-s OFDM	15	25.0	23.69	-0.04	Rear	0	36	22	1:1	15	0.208	1.352	0.281	-
707.5	141500	QPSK	15	25.0	23.73	-0.05	Front	0	1	77	1:1	15	0.247	1.340	0.331	-
707.5	141500	Main #1 Ant	15	25.0	23.69	-0.03	Front	0	36	22	1:1	15	0.186	1.352	0.251	-
707.5	141500	CP OFDM QPSK	15	23.5	22.12	-0.01	Rear	1.5	1	1	1:1	15	0.136	1.374	0.187	-
1 882.5	376500	NR n25	40	24.5	23.69	-0.04	Rear	0	1	108	1:1	15	0.287	1.205	0.346	-
1 882.5	376500	DFT-s OFDM	40	24.5	23.96	-0.06	Rear	0	108	54	1:1	15	0.288	1.132	0.326	-
1 882.5	376500	QPSK	40	24.5	23.69	0.00	Front	0	1	108	1:1	15	0.401	1.205	0.483	60
1 882.5	376500	Main #2 Ant	40	24.5	23.96	-0.03	Front	0	108	54	1:1	15	0.402	1.132	0.455	61
1 882.5	376500	CP OFDM QPSK	40	23.0	21.97	-0.06	Front	1.5	1	1	1:1	15	0.290	1.268	0.368	-
2 310	462000	NR n30	10	24.5	23.25	-0.19	Rear	0	1	1	1:1	15	0.221	1.334	0.295	-
2 310	462000	DFT-s OFDM	10	24.5	23.20	-0.15	Rear	0	25	14	1:1	15	0.233	1.349	0.314	-
2 310	462000	QPSK	10	24.5	23.25	-0.16	Front	0	1	1	1:1	15	0.358	1.334	0.478	-
2 310	462000	Main #2 Ant	10	24.5	23.20	0.08	Front	0	25	14	1:1	15	0.369	1.349	0.498	62
2 310	462000	DFT-s OFDM	10	23.0	21.65	-0.11	Front	1.5	1	1	1:1	15	0.254	1.365	0.347	-
2 592.99	518598	NR n41	100	22.0	21.39	-0.11	Rear	0	1	1	1:1	15	0.224	1.151	0.258	-
2 592.99	518598	DFT-s OFDM	100	22.0	21.39	-0.16	Rear	0	135	69	1:1	15	0.308	1.151	0.354	-
2 592.99	518598	QPSK	100	22.0	21.39	0.19	Front	0	1	1	1:1	15	0.389	1.151	0.448	-
2 592.99	518598	Main #2 Ant	100	22.0	21.39	-0.11	Front	0	135	69	1:1	15	0.401	1.151	0.461	63
2 592.99	518598	CP OFDM QPSK	100	22.0	21.22	0.06	Front	1.5	1	1	1:1	15	0.237	1.197	0.284	-
1 745	349000	NR n66	40	25.0	24.34	-0.15	Rear	0	1	108	1:1	15	0.312	1.164	0.363	-
1 745	349000	DFT-s OFDM	40	25.0	24.50	-0.09	Rear	0	108	54	1:1	15	0.302	1.122	0.339	-
1 745	349000	QPSK	40	25.0	24.34	-0.04	Front	0	1	108	1:1	15	0.377	1.164	0.439	64
1 745	349000	Main #2 Ant	40	25.0	24.50	0.04	Front	0	108	54	1:1	15	0.327	1.122	0.367	-
1 745	349000	DFT-s OFDM	40	23.5	22.95	-0.06	Front	1	1	1	1:1	15	0.185	1.135	0.210	-
680.5	136100	NR n71	20	25.0	23.85	0.01	Rear	0	1	1	1:1	15	0.188	1.303	0.245	65
680.5	136100	DFT-s OFDM	20	25.0	23.46	0.00	Rear	0	50	28	1:1	15	0.153	1.426	0.218	-
680.5	136100	QPSK	20	25.0	23.85	-0.02	Front	0	1	1	1:1	15	0.187	1.303	0.244	-
680.5	136100	Main #1 Ant	20	25.0	23.46	-0.01	Front	0	50	28	1:1	15	0.184	1.426	0.262	66
680.5	136100	CP OFDM QPSK	20	23.5	22.24	0.00	Front	1.5	1	1	1:1	15	0.144	1.337	0.193	-
ANSI/ IEEE C95.1 –2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band Body-Worn

NR Body-Worn SAR																
Frequency		Mode	Band	Tune-	Meas.	Power	Test	MPR	RB	RB	Duty	Distance	Meas. SAR	Scaling	Scaled	Plot No.
Mhz	Ch.		width	Up Limit	Power	Drift		(dB)	Size	offset						
			(Mhz)	(dBm)	(dBm)	(dB)	Position				Cycle	(mm)	(W/kg)	Factor	(W/kg)	
3 750	650000	NR n77 DFT-s OFDM QPSK Sub #3 Ant	100	18.5	17.87	-0.13	Rear	0	1	271	1:1	15	0.149	1.156	0.172	-
3 750	650000		100	18.5	17.95	0.11	Rear	0	135	69	1:1	15	0.178	1.135	0.202	67
3 750	650000		100	18.5	17.87	0.00	Front	0	1	271	1:1	15	0.055	1.156	0.064	-
3 750	650000		100	18.5	17.95	0.00	Front	0	135	69	1:1	15	0.057	1.135	0.065	-
3 930	662000	CP OFDM QPSK	100	18.5	17.81	0.02	Rear	0	1	1	1:1	15	0.159	1.172	0.186	-
3 750	650000	NR n77 SRS1	100	16.0	14.33	0.02	Rear	0	1	1	1:3.70	15	0.099	1.469	0.145	-
3 750	650000	DFT-s OFDM QPSK	100	16.0	14.33	-0.19	Front	0	1	1	1:3.70	15	0.050	1.469	0.073	-
3 930	662000	NR n77 SRS2	100	17.0	16.81	0.01	Rear	0	1	1	1:3.70	15	0.081	1.045	0.085	-
3 930	662000	DFT-s OFDM QPSK	100	17.0	16.81	-0.14	Front	0	1	1	1:3.70	15	0.072	1.045	0.075	-
3 750	650000	NR n77 SRS3	100	18.5	16.21	0.10	Rear	0	1	1	1:3.70	15	0.006	1.694	0.010	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	16.21	0.00	Front	0	1	1	1:3.70	15	0.000	1.694	0.000	-
3 500.01	633334	NR n77DoD DFT-s OFDM QPSK Sub #3 Ant	100	18.5	17.54	-0.10	Rear	0	1	137	1:1	15	0.214	1.247	0.267	-
3 500.01	633334		100	18.5	17.56	0.00	Rear	0	135	138	1:1	15	0.205	1.242	0.255	-
3 500.01	633334		100	18.5	17.54	0.10	Front	0	1	137	1:1	15	0.053	1.247	0.066	-
3 500.01	633334		100	18.5	17.56	0.00	Front	1	135	138	1:1	15	0.077	1.242	0.096	-
3 500.01	633334	CP OFDM QPSK	100	18.5	17.51	0.00	Rear	1.5	1	1	1:1	15	0.175	1.256	0.220	-
3 500.01	633334	NR n77DoD SRS1	100	16.0	14.92	-0.03	Rear	0	1	1	1:3.70	15	0.243	1.282	0.312	68
3 500.01	633334	DFT-s OFDM QPSK	100	16.0	14.92	-0.16	Front	0	1	1	1:3.70	15	0.047	1.282	0.060	-
3 500.01	633334	NR n77DoD SRS2	100	17.0	16.50	0.12	Rear	0	1	1	1:3.70	15	0.095	1.122	0.107	-
3 500.01	633334	DFT-s OFDM QPSK	100	17.0	16.50	0.13	Front	0	1	1	1:3.70	15	0.073	1.122	0.081	-
3 500.01	633334	NR n77DoD SRS3	100	18.5	17.70	0.00	Rear	0	1	1	1:3.70	15	0.024	1.202	0.029	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.70	0.00	Front	0	1	1	1:3.70	15	0.000	1.202	0.000	-
ANSI/ IEEE C95.1 –2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

DTS Bodyworn SAR																	
Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant. Config.	Duty Cycle	Distance	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.		(MHz)	(Mbps)	(dBm)	(dBm)	(dB)				(mm)	(W/kg)	(W/kg)				
2 437	6	802.11b	20	1	17.0	16.24	0.14	Rear	Ant.2	98.8	15	0.351	0.206	1.191	1.013	0.249	-
2 437	6	802.11b	20	1	17.0	16.24	-0.03	Front	Ant.2	98.8	15	0.0295	0.018	1.191	1.013	0.022	-
2 437	6	802.11b	20	1	20.0	19.39	0.10	Rear	MIMO	98.8	15	1.26	0.744	1.191	1.013	0.898	-
2 437	6	802.11b	20	1	20.0	19.39	0.01	Front	MIMO	98.8	15	0.0502	0.014	1.191	1.013	0.017	-
2 412	1	802.11b	20	1	19.0	18.45	-0.12	Rear	MIMO	98.8	15	1.48	0.871	1.213	1.013	1.070	-
2 462	11	802.11b	20	1	19.0	18.44	-0.15	Rear	MIMO	98.8	15	1.52	0.886	1.202	1.013	1.079	69
2 462	11	802.11b	20	1	19.0	18.44	0.13	Rear	MIMO	98.8	15	1.52	0.872	1.202	1.013	1.062	*
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram								

Note: * Data entry indicate Variability measurement.

NII Bodyworn SAR																	
Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant. Config.	Duty Cycle	Distance	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																
5 260	52	802.11a	20	6	20.0	19.57	0.18	Rear	MIMO	93.3	15	0.627	0.291	1.225	1.072	0.382	70
5 260	52	802.11a	20	6	20.0	19.57	0.01	Front	MIMO	93.3	15	0.115	0.038	1.225	1.072	0.050	-
5 600	120	802.11a	20	6	20.0	18.75	0.13	Rear	MIMO	93.3	15	0.497	0.223	1.349	1.072	0.322	-
5 600	120	802.11a	20	6	20.0	18.75	0.00	Front	MIMO	93.3	15	0.114	0.041	1.349	1.072	0.059	-
5 745	149	802.11a	20	6	20.0	18.79	-0.18	Rear	MIMO	93.3	15	0.459	0.209	1.442	1.072	0.323	-
5 745	149	802.11a	20	6	20.0	18.79	0.01	Front	MIMO	93.3	15	0.117	0.023	1.442	1.072	0.036	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram								

DSS Bodyworn SAR													
Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant. Config.	Distance	Meas. SAR	Scaling Factor	Scaling Factor (Duty)	Scaled SAR	Plot No.
MHz	Ch.		(dBm)	(dBm)	(dB)			(mm)	(W/kg)			(W/kg)	
2 402	0	Bluetooth DH5	14.5	14.42	0.01	Rear	-	15	0.312	1.019	1.299	0.413	71
2 402	0	Bluetooth DH5	14.5	14.42	0.01	Front	-	15	0.000000162	1.019	1.299	0.000	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram						

13.3 Hotspot SAR Measurement Results(DSI=2)

GSM 850 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance (mm)	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
836.6	190	GPRS 2TX	29.5	28.02	0.06	Rear	1:4.15	10	0.269	1.406	0.378	72
836.6	190	GPRS 2TX	29.5	28.02	-0.11	Front	1:4.15	10	0.120	1.406	0.169	-
836.6	190	GPRS 2TX	29.5	28.02	0.18	Left	1:4.15	10	0.086	1.406	0.121	-
836.6	190	GPRS 2TX	29.5	28.02	-0.17	Right	1:4.15	10	0.134	1.406	0.188	-
836.6	190	GPRS 2TX	29.5	28.02	-0.03	Bottom	1:4.15	10	0.183	1.406	0.257	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body 1.6 W/kg Averaged over 1 gram						

GSM 1900 Hotspot SAR– Main #2 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance (mm)	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(W/kg)		(W/kg)	
1 880	661	GPRS 2TX	26.5	25.44	-0.11	Rear	1:4.15	10	0.616	1.276	0.786	73
1 880	661	GPRS 2TX	26.5	25.44	0.11	Front	1:4.15	10	0.599	1.276	0.764	-
1 880	661	GPRS 2TX	26.5	25.44	0.18	Left	1:4.15	10	0.353	1.276	0.450	-
1 880	661	GPRS 2TX	26.5	25.44	-0.03	Bottom	1:4.15	10	0.455	1.276	0.581	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body 1.6 W/kg Averaged over 1 gram						

UMTS Band 5 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)			(mm)	(W/kg)		(W/kg)	
836.6	4183	RMC	23.5	22.71	0.15	Rear	1:1	10	0.420	1.199	0.504	74
836.6	4183	RMC	23.5	22.71	-0.02	Front	1:1	10	0.252	1.199	0.302	-
836.6	4183	RMC	23.5	22.71	-0.03	Left	1:1	10	0.148	1.199	0.177	-
836.6	4183	RMC	23.5	22.71	0.04	Right	1:1	10	0.282	1.199	0.338	-
836.6	4183	RMC	23.5	22.71	0.07	Bottom	1:1	10	0.286	1.199	0.343	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body 1.6 W/kg Averaged over 1 gram						

UMTS Band 4 Hotspot SAR- Main #2 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)			(mm)	(W/kg)		(W/kg)	
1 732.4	1412	RMC	22.5	21.55	0.04	Rear	1:1	10	0.438	1.245	0.545	-
1 732.4	1412	RMC	22.5	21.55	0.07	Front	1:1	10	0.444	1.245	0.553	-
1 732.4	1412	RMC	22.5	21.55	0.01	Left	1:1	10	0.292	1.245	0.364	-
1 732.4	1412	RMC	22.5	21.55	0.01	Bottom	1:1	10	0.463	1.245	0.576	75

ANSI/ IEEE C95.1 - 2005- Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg
Averaged over 1 gram

UMTS Band 2 Hotspot SAR- Main #2 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(dB)	(dB)	(dB)			(mm)	(W/kg)		(W/kg)	
1 880	9400	RMC	22.5	21.40	0.07	Rear	1:1	10	0.584	1.288	0.752	-
1 880	9400	RMC	22.5	21.40	0.07	Front	1:1	10	0.582	1.288	0.750	-
1 880	9400	RMC	22.5	21.40	0.08	Left	1:1	10	0.397	1.288	0.511	-
1 880	9400	RMC	22.5	21.40	0.06	Bottom	1:1	10	0.762	1.288	0.981	76

ANSI/ IEEE C95.1 - 2005- Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg
Averaged over 1 gram

LTE Band 7 Hotspot SAR- Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
2 510	20850	QPSK	20	22.0	20.74	-0.14	Rear	0	1	0	1:1	10	0.317	1.337	0.424	-
2 510	20850	QPSK	20	22.0	20.89	-0.11	Rear	0	50	0	1:1	10	0.328	1.291	0.423	-
2 510	20850	QPSK	20	22.0	20.74	-0.07	Front	0	1	0	1:1	10	0.361	1.337	0.483	-
2 510	20850	QPSK	20	22.0	20.89	0.09	Front	0	50	0	1:1	10	0.430	1.291	0.555	77
2 510	20850	QPSK	20	22.0	20.74	0.14	Left	0	1	0	1:1	10	0.146	1.337	0.195	-
2 510	20850	QPSK	20	22.0	20.89	0.16	Left	0	50	0	1:1	10	0.151	1.291	0.195	-
2 510	20850	QPSK	20	22.0	20.74	0.10	Right	0	1	0	1:1	10	0.060	1.337	0.080	-
2 510	20850	QPSK	20	22.0	20.89	0.03	Right	0	50	0	1:1	10	0.063	1.291	0.081	-
2 510	20850	QPSK	20	22.0	20.74	0.16	Bottom	0	1	0	1:1	10	0.405	1.337	0.541	-
2 510	20850	QPSK	20	22.0	20.89	0.07	Bottom	0	50	0	1:1	10	0.418	1.291	0.540	-

ANSI/ IEEE C95.1 - 2005 - Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg
Averaged over 1 gram

LTE Band 12 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)	Size	Offset		(mm)	(W/kg)		(W/kg)	
707.5	23095	QPSK	10	25.5	24.15	-0.03	Rear	0	1	24	1:1	10	0.395	1.365	0.539	78
707.5	23095	QPSK	10	24.5	23.28	0.05	Rear	1	25	12	1:1	10	0.328	1.324	0.434	-
707.5	23095	QPSK	10	25.5	24.15	-0.01	Front	0	1	24	1:1	10	0.274	1.365	0.374	-
707.5	23095	QPSK	10	24.5	23.28	0.03	Front	1	25	12	1:1	10	0.229	1.324	0.303	-
707.5	23095	QPSK	10	25.5	24.15	0.01	Left	0	1	24	1:1	10	0.137	1.365	0.187	-
707.5	23095	QPSK	10	24.5	23.28	-0.03	Left	1	25	12	1:1	10	0.113	1.324	0.150	-
707.5	23095	QPSK	10	25.5	24.15	0.12	Right	0	1	24	1:1	10	0.207	1.365	0.282	-
707.5	23095	QPSK	10	24.5	23.28	0.07	Right	1	25	12	1:1	10	0.171	1.324	0.226	-
707.5	23095	QPSK	10	25.5	24.15	0.09	Bottom	0	1	24	1:1	10	0.236	1.365	0.322	-
707.5	23095	QPSK	10	24.5	23.28	-0.01	Bottom	1	25	12	1:1	10	0.198	1.324	0.262	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 13 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB	RB	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)	Size	Offset		(mm)	(W/kg)		(W/kg)	
782	23230	QPSK	10	25	24.00	-0.09	Rear	0	1	24	1:1	10	0.410	1.259	0.516	79
782	23230	QPSK	10	24	23.09	-0.00	Rear	1	25	0	1:1	10	0.344	1.233	0.424	-
782	23230	QPSK	10	25	24.00	0.01	Front	0	1	24	1:1	10	0.216	1.259	0.272	-
782	23230	QPSK	10	24	23.09	-0.04	Front	1	25	0	1:1	10	0.182	1.233	0.224	-
782	23230	QPSK	10	25	24.00	0.01	Left	0	1	24	1:1	10	0.167	1.259	0.210	-
782	23230	QPSK	10	24	23.09	-0.02	Left	1	25	0	1:1	10	0.139	1.233	0.171	-
782	23230	QPSK	10	25	24.00	0.11	Right	0	1	24	1:1	10	0.306	1.259	0.385	-
782	23230	QPSK	10	24	23.09	0.07	Right	1	25	0	1:1	10	0.245	1.233	0.302	-
782	23230	QPSK	10	25	24.00	0.01	Bottom	0	1	24	1:1	10	0.328	1.259	0.413	-
782	23230	QPSK	10	24	23.09	0.01	Bottom	1	25	0	1:1	10	0.271	1.233	0.334	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 14 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
793	23330	QPSK	10	25.5	24.55	0.00	Rear	0	1	24	1:1	10	0.356	1.245	0.443	80
793	23330	QPSK	10	24.5	23.58	-0.03	Rear	1	25	0	1:1	10	0.287	1.236	0.355	-
793	23330	QPSK	10	25.5	24.55	0.01	Front	0	1	24	1:1	10	0.174	1.245	0.217	-
793	23330	QPSK	10	24.5	23.58	0.02	Front	1	25	0	1:1	10	0.117	1.236	0.145	-
793	23330	QPSK	10	25.5	24.55	-0.08	Left	0	1	24	1:1	10	0.113	1.245	0.141	-
793	23330	QPSK	10	24.5	23.58	0.07	Left	1	25	0	1:1	10	0.098	1.236	0.121	-
793	23330	QPSK	10	25.5	24.55	0.13	Right	0	1	24	1:1	10	0.246	1.245	0.306	-
793	23330	QPSK	10	24.5	23.58	0.02	Right	1	25	0	1:1	10	0.202	1.236	0.250	-
793	23330	QPSK	10	25.5	24.55	0.08	Bottom	0	1	24	1:1	10	0.268	1.245	0.334	-
793	23330	QPSK	10	24.5	23.58	-0.01	Bottom	1	25	0	1:1	10	0.211	1.236	0.261	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 25 Hotspot SAR– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
1 882.5	26365	QPSK	20	22.0	21.20	0.02	Rear	0	1	99	1:1	10	0.325	1.202	0.391	-
1 882.5	26365	QPSK	20	22.0	21.26	0.08	Rear	0	50	49	1:1	10	0.343	1.186	0.407	-
1 882.5	26365	QPSK	20	22.0	21.20	0.18	Front	0	1	99	1:1	10	0.327	1.202	0.393	-
1 882.5	26365	QPSK	20	22.0	21.26	0.03	Front	0	50	49	1:1	10	0.344	1.186	0.408	81
1 882.5	26365	QPSK	20	22.0	21.20	0.09	Left	0	1	99	1:1	10	0.217	1.202	0.261	-
1 882.5	26365	QPSK	20	22.0	21.26	-0.02	Left	0	50	49	1:1	10	0.203	1.186	0.241	-
1 882.5	26365	QPSK	20	22.0	21.20	0.12	Right	0	1	99	1:1	10	0.055	1.202	0.066	-
1 882.5	26365	QPSK	20	22.0	21.26	0.15	Right	0	50	49	1:1	10	0.061	1.186	0.072	-
1 882.5	26365	QPSK	20	22.0	21.20	0.01	Bottom	0	1	99	1:1	10	0.246	1.202	0.296	-
1 882.5	26365	QPSK	20	22.0	21.26	-0.00	Bottom	0	50	49	1:1	10	0.253	1.186	0.300	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 25_Hotspot SAR– Sub #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
1 882.5	26365	QPSK	20	23.0	21.21	-0.01	Rear	0	1	0	1:1	10	0.280	1.510	0.423	-
1 860	26140	QPSK	20	22.0	20.56	0.09	Rear	1	50	0	1:1	10	0.322	1.393	0.449	-
1 882.5	26365	QPSK	20	23.0	21.21	-0.12	Front	0	1	0	1:1	10	0.303	1.510	0.458	-
1 860	26140	QPSK	20	22.0	20.56	-0.02	Front	1	50	0	1:1	10	0.364	1.393	0.507	82
1 882.5	26365	QPSK	20	23.0	21.21	-0.02	Right	0	1	0	1:1	10	0.153	1.510	0.231	-
1 860	26140	QPSK	20	22.0	20.56	-0.01	Right	1	50	0	1:1	10	0.194	1.393	0.270	-
1 882.5	26365	QPSK	20	23.0	21.21	0.18	Top	0	1	0	1:1	10	0.293	1.510	0.442	-
1 860	26140	QPSK	20	22.0	20.56	0.14	Top	1	50	0	1:1	10	0.290	1.393	0.404	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 26 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
831.5	26865	QPSK	15	25.5	23.83	0.01	Rear	0	1	0	1:1	10	0.497	1.469	0.730	83
831.5	26865	QPSK	15	24.5	22.81	0.00	Rear	1	36	0	1:1	10	0.413	1.476	0.610	-
831.5	26865	QPSK	15	25.5	23.83	-0.02	Front	0	1	0	1:1	10	0.294	1.469	0.432	-
831.5	26865	QPSK	15	24.5	22.81	0.01	Front	1	36	0	1:1	10	0.236	1.476	0.348	-
831.5	26865	QPSK	15	25.5	23.83	0.03	Left	0	1	0	1:1	10	0.189	1.469	0.278	-
831.5	26865	QPSK	15	24.5	22.81	0.04	Left	1	36	0	1:1	10	0.148	1.476	0.218	-
831.5	26865	QPSK	15	25.5	23.83	0.05	Right	0	1	0	1:1	10	0.207	1.469	0.304	-
831.5	26865	QPSK	15	24.5	22.81	0.08	Right	1	36	0	1:1	10	0.175	1.476	0.258	-
831.5	26865	QPSK	15	25.5	23.83	0.05	Bottom	0	1	0	1:1	10	0.313	1.469	0.460	-
831.5	26865	QPSK	15	24.5	22.81	0.07	Bottom	1	36	0	1:1	10	0.264	1.476	0.390	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 30 Hotspot SAR– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
2 310	27710	QPSK	10	22.0	21.28	-0.14	Rear	0	1	49	1:1	10	0.330	1.180	0.390	-
2 310	27710	QPSK	10	22.0	21.18	0.15	Rear	0	25	12	1:1	10	0.263	1.208	0.318	-
2 310	27710	QPSK	10	22.0	21.28	-0.12	Front	0	1	49	1:1	10	0.492	1.180	0.581	84
2 310	27710	QPSK	10	22.0	21.18	0.12	Front	0	25	12	1:1	10	0.399	1.208	0.482	-
2 310	27710	QPSK	10	22.0	21.28	0.09	Left	0	1	49	1:1	10	0.223	1.180	0.263	-
2 310	27710	QPSK	10	22.0	21.18	0.15	Left	0	25	12	1:1	10	0.185	1.208	0.223	-
2 310	27710	QPSK	10	22.0	21.28	0.07	Bottom	0	25	12	1:1	10	0.404	1.180	0.477	-
2 310	27710	QPSK	10	22.0	21.18	0.06	Bottom	0	25	12	1:1	10	0.331	1.208	0.400	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 40 Hotspot SAR _ Upper Frequency Range– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
2 355	39200	QPSK	10	14.0	12.95	0.01	Rear	0	1	24	1:1.58	10	0.014	1.274	0.018	-
2 355	39200	QPSK	10	14.0	12.97	0.01	Rear	0	25	12	1:1.58	10	0.014	1.268	0.018	-
2 355	39200	QPSK	10	14.0	12.95	-0.12	Front	0	1	24	1:1.58	10	0.019	1.274	0.024	-
2 355	39200	QPSK	10	14.0	12.97	-0.13	Front	0	25	12	1:1.58	10	0.019	1.268	0.024	-
2 355	39200	QPSK	10	14.0	12.95	-0.11	Left	0	1	24	1:1.58	10	0.00967	1.274	0.012	-
2 355	39200	QPSK	10	14.0	12.97	-0.18	Left	0	25	12	1:1.58	10	0.010	1.268	0.013	-
2 355	39200	QPSK	10	14.0	12.95	-0.13	Bottom	0	1	24	1:1.58	10	0.026	1.274	0.033	85
2 355	39200	QPSK	10	14.0	12.97	-0.13	Bottom	0	25	12	1:1.58	10	0.025	1.268	0.032	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 40 Hotspot SAR _ Lower Frequency Range– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
2 310	38750	QPSK	10	14.0	12.98	0.00	Rear	0	1	24	1:1.58	10	0.013	1.265	0.016	-
2 310	38750	QPSK	10	14.0	13.15	-0.12	Rear	0	25	12	1:1.58	10	0.014	1.216	0.017	-
2 310	38750	QPSK	10	14.0	12.98	0.12	Front	0	1	24	1:1.58	10	0.015	1.265	0.019	-
2 310	38750	QPSK	10	14.0	13.15	-0.13	Front	0	25	12	1:1.58	10	0.017	1.216	0.021	-
2 310	38750	QPSK	10	14.0	12.98	-0.14	Left	0	1	24	1:1.58	10	0.011	1.265	0.014	-
2 310	38750	QPSK	10	14.0	13.15	-0.15	Left	0	25	12	1:1.58	10	0.00982	1.216	0.012	-
2 310	38750	QPSK	10	14.0	12.98	-0.03	Bottom	0	1	24	1:1.58	10	0.023	1.265	0.029	-
2 310	38750	QPSK	10	14.0	13.15	-0.10	Bottom	0	25	12	1:1.58	10	0.024	1.216	0.029	86
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 41 Hotspot SAR– Main #2 Ant.

LTE Band 41 Hotspot SAR– Main #2 Ant.																	
	Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
	Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)	(mm)	(W/kg)		(W/kg)				
	2 680	41490	QPSK	20	25.0	23.88	-0.17	Rear	0	1	0	1:1.58	10	0.371	1.294	0.480	-
	2 680	41490	QPSK	20	24.0	23.13	0.08	Rear	1	50	0	1:1.58	10	0.304	1.222	0.371	-
	2 680	41490	QPSK	20	25.0	23.88	-0.01	Front	0	1	0	1:1.58	10	0.387	1.294	0.501	-
	2 680	41490	QPSK	20	24.0	23.13	0.14	Front	1	50	0	1:1.58	10	0.318	1.222	0.389	-
	2 680	41490	QPSK	20	25.0	23.88	0.13	Left	0	1	0	1:1.58	10	0.129	1.294	0.167	-
	2 680	41490	QPSK	20	24.0	23.13	0.11	Left	1	50	0	1:1.58	10	0.107	1.222	0.131	-
	2 680	41490	QPSK	20	25.0	23.88	-0.18	Right	0	1	0	1:1.58	10	0.079	1.294	0.102	-
	2 680	41490	QPSK	20	24.0	23.13	-0.06	Right	1	50	0	1:1.58	10	0.067	1.222	0.082	-
	2 680	41490	QPSK	20	25.0	23.88	0.17	Bottom	0	1	0	1:1.58	10	0.462	1.294	0.598	-
	2 680	41490	QPSK	20	24.0	23.13	0.14	Bottom	1	50	0	1:1.58	10	0.378	1.222	0.462	-
Power class 2 (HPUE)																	
	2 680	41490	QPSK	20	27.5	27.03	0.13	Bottom	0	1	0	1:2.31	10	0.710	1.250	0.791	-
Up-link Carrier Aggregation Power class 3 (41C)																	
PCC	2 680	41490	QPSK	20	25.0	24.00	-0.17	Bottom	0	1	0	1:1.58	10	0.518	1.259	0.652	*
SCC	2 660.2	41292		20						1	99						
Up-link Carrier Aggregation Power class 2 (41C)																	
PCC	2 680	41490	QPSK	20	27.5	27.05	0.11	Bottom	0	1	0	1:2.31	10	0.725	1.109	0.804	87**
SCC	2 660.2	41292		20						1	99						
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram								

Note: * Up-link Carrier Aggregation Power class 3 (41C)

** Up-link Carrier Aggregation Power class 2 (HPUE) (41C)

LTE Band 48 Hotspot SAR – Sub #3 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
3 603.3	55773	QPSK	20	23.5	22.46	0.15	Rear	0	1	99	1:1.58	10	0.465	1.271	0.591	-
3 603.3	55773	QPSK	20	22.5	21.45	0.16	Rear	1	50	25	1:1.58	10	0.382	1.274	0.486	-
3 603.3	55773	QPSK	20	23.5	22.46	0.11	Front	0	1	99	1:1.58	10	0.171	1.271	0.217	-
3 603.3	55773	QPSK	20	22.5	21.45	-0.12	Front	1	50	25	1:1.58	10	0.139	1.274	0.177	-
3 603.3	55773	QPSK	20	23.5	22.46	0.09	Left	0	1	99	1:1.58	10	0.806	1.271	1.024	-
3 560	55340	QPSK	20	23.5	22.30	0.15	Left	0	1	99	1:1.58	10	0.803	1.318	1.059	88
3 646.7	56207	QPSK	20	23.5	22.45	-0.11	Left	0	1	99	1:1.58	10	0.820	1.274	1.044	89
3 690	56640	QPSK	20	23.5	22.40	-0.06	Left	0	1	0	1:1.58	10	0.784	1.288	1.010	-
3 603.3	55773	QPSK	20	22.5	21.45	0.13	Left	1	50	25	1:1.58	10	0.645	1.274	0.821	-
3 560	55340	QPSK	20	22.5	21.26	0.13	Left	1	50	25	1:1.58	10	0.654	1.330	0.870	-
3 646.7	56207	QPSK	20	22.5	21.42	0.15	Left	1	50	25	1:1.58	10	0.692	1.282	0.887	-
3 690	56640	QPSK	20	22.5	21.25	0.19	Left	1	50	25	1:1.58	10	0.640	1.334	0.853	-
3 603.3	55773	QPSK	20	22.5	21.38	0.09	Left	1	100	0	1:1.58	10	0.664	1.294	0.859	-
3 603.3	55773	QPSK	20	23.5	22.46	-0.10	Top	0	1	99	1:1.58	10	0.089	1.271	0.113	-
3 603.3	55773	QPSK	20	22.5	21.45	0.10	Top	1	50	25	1:1.58	10	0.070	1.274	0.089	-
3 646.7	56207	QPSK	20	23.5	22.45	0.18	Left	0	1	99	1:1.58	10	0.748	1.274	0.953	*
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram							

Note: * Data entry indicate Variability measurement.

LTE Band 66_ Hotspot SAR– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
1 720	132072	QPSK	20	22.0	21.31	0.06	Rear	0	1	49	1:1	10	0.453	1.172	0.531	90
1 720	132072	QPSK	20	22.0	21.45	-0.05	Rear	0	50	25	1:1	10	0.409	1.135	0.464	-
1 720	132072	QPSK	20	22.0	21.31	0.18	Front	0	1	49	1:1	10	0.336	1.172	0.394	-
1 720	132072	QPSK	20	22.0	21.45	0.15	Front	0	50	25	1:1	10	0.350	1.135	0.397	-
1 720	132072	QPSK	20	22.0	21.31	0.12	Left	0	1	49	1:1	10	0.217	1.172	0.254	-
1720	132072	QPSK	20	22.0	21.45	0.18	Left	0	50	25	1:1	10	0.225	1.135	0.255	-
1 720	132072	QPSK	20	22.0	21.31	-0.03	Right	0	1	49	1:1	10	0.074	1.172	0.087	-
1 720	132072	QPSK	20	22.0	21.45	0.18	Right	0	50	25	1:1	10	0.078	1.135	0.089	-
1 720	132072	QPSK	20	22.0	21.31	0.00	Bottom	0	1	49	1:1	10	0.199	1.172	0.233	-
1 720	132072	QPSK	20	22.0	21.45	-0.06	Bottom	0	50	25	1:1	10	0.208	1.135	0.236	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 66_ Hotspot SAR– Sub #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
1 745	132322	QPSK	20	23.0	21.69	0.09	Rear	0	1	0	1:1	10	0.331	1.352	0.448	-
1 720	132072	QPSK	20	22.0	20.90	0.03	Rear	1	50	0	1:1	10	0.340	1.288	0.438	-
1 745	132322	QPSK	20	23.0	21.69	-0.18	Front	0	1	0	1:1	10	0.355	1.352	0.480	91
1 720	132072	QPSK	20	22.0	20.90	-0.02	Front	1	50	0	1:1	10	0.348	1.288	0.448	-
1 745	132322	QPSK	20	23.0	21.69	0.03	Right	0	1	0	1:1	10	0.265	1.352	0.358	-
1 720	132072	QPSK	20	22.0	20.90	-0.04	Right	1	50	0	1:1	10	0.247	1.288	0.318	-
1 745	132322	QPSK	20	23.0	21.69	0.10	Top	0	1	0	1:1	10	0.225	1.352	0.304	-
1 720	132072	QPSK	20	22.0	20.90	0.08	Top	1	50	0	1:1	10	0.212	1.288	0.273	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

LTE Band 71 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
680.5	133297	QPSK	10	25.5	23.96	0.01	Rear	0	1	0	1:1	10	0.365	1.426	0.520	92
680.5	133297	QPSK	10	24.5	22.98	0.05	Rear	1	25	0	1:1	10	0.297	1.419	0.421	-
680.5	133297	QPSK	10	25.5	23.96	0.03	Front	0	1	0	1:1	10	0.227	1.426	0.324	-
680.5	133297	QPSK	10	24.5	22.98	0.06	Front	1	25	0	1:1	10	0.180	1.419	0.255	-
680.5	133297	QPSK	10	25.5	23.96	-0.00	Left	0	1	0	1:1	10	0.168	1.426	0.240	-
680.5	133297	QPSK	10	24.5	22.98	0.02	Left	1	25	0	1:1	10	0.127	1.419	0.180	-
680.5	133297	QPSK	10	25.5	23.96	0.11	Right	0	1	0	1:1	10	0.230	1.426	0.328	-
680.5	133297	QPSK	10	24.5	22.98	0.13	Right	1	25	0	1:1	10	0.185	1.419	0.263	-
680.5	133297	QPSK	10	25.5	23.96	0.07	Bottom	0	1	0	1:1	10	0.265	1.426	0.378	-
680.5	133297	QPSK	10	24.5	22.98	0.07	Bottom	1	25	0	1:1	10	0.221	1.419	0.314	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

NR Band n5 (Cell) Hotspot SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.88	-0.03	Rear	0	1	1	1:1	10	0.595	1.294	0.770	-
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.84	-0.03	Rear	0	50	28	1:1	10	0.606	1.306	0.791	93
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.88	0.01	Front	0	1	1	1:1	10	0.335	1.294	0.433	-
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.84	-0.05	Front	0	50	28	1:1	10	0.301	1.306	0.393	-
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.88	-0.06	Left	0	1	1	1:1	10	0.217	1.294	0.281	-
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.84	0.06	Left	0	50	28	1:1	10	0.171	1.306	0.223	-
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.88	0.07	Right	0	1	1	1:1	10	0.333	1.294	0.431	-
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.84	0.01	Right	0	50	28	1:1	10	0.301	1.306	0.393	-
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.88	0.03	Bottom	0	1	1	1:1	10	0.352	1.294	0.455	-
836.5	167300	DFT-s OFDM QPSK	20	25.0	23.84	-0.00	Bottom	0	50	28	1:1	10	0.376	1.306	0.491	-
836.5	167300	CP OFDM QPSK	20	23.5	22.35	0.00	Rear	1.5	1	1	1:1	10	0.458	1.303	0.597	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

NR Band n12 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.73	0.04	Rear	0	1	77	1:1	10	0.311	1.340	0.417	94
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.69	0.00	Rear	0	36	22	1:1	10	0.243	1.352	0.329	-
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.73	0.00	Front	0	1	77	1:1	10	0.282	1.340	0.378	-
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.69	-0.00	Front	0	36	22	1:1	10	0.203	1.352	0.274	-
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.73	-0.04	Left	0	1	77	1:1	10	0.077	1.340	0.103	-
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.69	0.03	Left	0	36	22	1:1	10	0.077	1.352	0.104	-
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.73	0.03	Right	0	1	77	1:1	10	0.148	1.340	0.198	-
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.69	0.10	Right	0	36	22	1:1	10	0.150	1.352	0.203	-
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.73	0.18	Bottom	0	1	77	1:1	10	0.175	1.340	0.235	-
707.5	141500	DFT-s OFDM QPSK	15	25.0	23.69	0.16	Bottom	0	36	22	1:1	10	0.162	1.352	0.219	-
707.5	141500	CP OFDM QPSK	15	23.5	22.12	-0.01	Rear	1.5	1	1	1:1	10	0.222	1.374	0.305	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band n25 Hotspot SAR– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
1 882.5	376500	DFT-s OFDM QPSK	40	22.0	21.17	-0.16	Rear	0	1	108	1:1	10	0.310	1.211	0.375	-
1 882.5	376500	DFT-s OFDM QPSK	40	22.0	21.40	-0.09	Rear	0	108	54	1:1	10	0.347	1.148	0.398	-
1 882.5	376500	DFT-s OFDM QPSK	40	22.0	21.17	0.10	Front	0	1	108	1:1	10	0.370	1.211	0.448	-
1 882.5	376500	DFT-s OFDM QPSK	40	22.0	21.40	0.07	Front	0	108	54	1:1	10	0.352	1.148	0.404	-
1 882.5	376500	DFT-s OFDM QPSK	40	22.0	21.17	-0.10	Left	0	1	108	1:1	10	0.176	1.211	0.213	-
1 882.5	376500	DFT-s OFDM QPSK	40	22.0	21.40	-0.01	Left	0	108	54	1:1	10	0.186	1.148	0.214	-
1 882.5	376500	DFT-s OFDM QPSK	40	22.0	21.17	0.08	Bottom	0	1	108	1:1	10	0.417	1.211	0.505	-
1 882.5	376500	DFT-s OFDM QPSK	40	22.0	21.40	0.17	Bottom	0	108	54	1:1	10	0.443	1.148	0.509	-
1 882.5	376500	CP OFDM QPSK	40	22.0	20.93	0.10	Bottom	0	1	1	1:1	10	0.506	1.279	0.647	95
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band n30 Hotspot SAR– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
2 310	462000	DFT-s OFDM QPSK	10	22.0	21.21	-0.17	Rear	0	1	1	1:1	10	0.174	1.199	0.209	-
2 310	462000	DFT-s OFDM QPSK	10	22.0	21.16	-0.08	Rear	0	25	14	1:1	10	0.173	1.213	0.210	-
2 310	462000	DFT-s OFDM QPSK	10	22.0	21.21	-0.11	Front	0	1	1	1:1	10	0.304	1.199	0.365	96
2 310	462000	DFT-s OFDM QPSK	10	22.0	21.16	0.10	Front	0	25	14	1:1	10	0.303	1.213	0.368	97
2 310	462000	DFT-s OFDM QPSK	10	22.0	21.21	-0.10	Left	0	1	1	1:1	10	0.101	1.199	0.121	-
2 310	462000	DFT-s OFDM QPSK	10	22.0	21.16	-0.03	Left	0	25	14	1:1	10	0.095	1.213	0.115	-
2 310	462000	DFT-s OFDM QPSK	10	22.0	21.21	0.16	Bottom	0	1	1	1:1	10	0.291	1.199	0.349	-
2 310	462000	DFT-s OFDM QPSK	10	22.0	21.16	0.13	Bottom	0	25	14	1:1	10	0.289	1.213	0.351	-
2 310	462000	CP OFDM QPSK	10	22.0	21.23	-0.17	Front	0	1	1	1:1	10	0.289	1.194	0.345	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

NR Band n41 Hotspot SAR– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	0.00	Rear	0	1	1	1:1	10	0.449	1.151	0.517	-
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	-0.12	Rear	0	135	69	1:1	10	0.508	1.151	0.585	-
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	0.13	Front	0	1	1	1:1	10	0.584	1.151	0.672	-
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	0.10	Front	0	135	69	1:1	10	0.704	1.151	0.810	98
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	0.11	Left	0	1	1	1:1	10	0.219	1.151	0.252	-
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	-0.03	Left	0	135	69	1:1	10	0.259	1.151	0.298	-
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	0.13	Bottom	0	1	1	1:1	10	0.539	1.151	0.620	-
2 592.99	518598	DFT-s OFDM QPSK	100	22.0	21.39	0.02	Bottom	0	135	69	1:1	10	0.545	1.151	0.627	-
2 592.99	518598	CP OFDM QPSK	100	22.0	21.39	-0.15	Front	0	1	1	1:1	10	0.399	1.151	0.459	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

NR Band n66 Hotspot SAR– Main #2 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
1 745	349000	DFT-s OFDM QPSK	40	22.0	21.43	-0.13	Rear	0	1	108	1:1	10	0.323	1.140	0.368	-
1 745	349000	DFT-s OFDM QPSK	40	22.0	21.59	-0.13	Rear	0	108	0	1:1	10	0.369	1.099	0.406	-
1 745	349000	DFT-s OFDM QPSK	40	22.0	21.43	-0.09	Front	0	1	108	1:1	10	0.335	1.140	0.382	-
1 745	349000	DFT-s OFDM QPSK	40	22.0	21.59	-0.10	Front	0	108	0	1:1	10	0.376	1.099	0.413	-
1 745	349000	DFT-s OFDM QPSK	40	22.0	21.43	-0.03	Left	0	1	108	1:1	10	0.187	1.140	0.213	-
1 745	349000	DFT-s OFDM QPSK	40	22.0	21.59	-0.11	Left	0	108	0	1:1	10	0.200	1.099	0.220	-
1 745	349000	DFT-s OFDM QPSK	40	22.0	21.43	0.10	Bottom	0	1	108	1:1	10	0.442	1.140	0.504	99
1 745	349000	DFT-s OFDM QPSK	40	22.0	21.59	0.15	Bottom	0	108	0	1:1	10	0.390	1.099	0.429	-
1 745	349000	DFT-s OFDM	40	22.0	21.50	-0.04	Bottom	0	1	1	1:1	10	0.366	1.122	0.411	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram								

NR Band n71 Hotspot SAR– Main #1 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.85	0.03	Rear	0	1	1	1:1	10	0.332	1.303	0.433	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.46	0.01	Rear	0	50	28	1:1	10	0.382	1.426	0.545	100
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.85	-0.02	Front	0	1	1	1:1	10	0.210	1.303	0.274	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.46	-0.03	Front	0	50	28	1:1	10	0.180	1.426	0.257	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.85	0.03	Left	0	1	1	1:1	10	0.104	1.303	0.136	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.46	-0.02	Left	0	50	28	1:1	10	0.078	1.426	0.111	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.85	-0.01	Right	0	1	1	1:1	10	0.230	1.303	0.300	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.46	-0.07	Right	0	50	28	1:1	10	0.202	1.426	0.288	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.85	0.17	Bottom	0	1	1	1:1	10	0.223	1.303	0.291	-
680.5	136100	DFT-s OFDM QPSK	20	25.0	23.46	0.15	Bottom	0	50	28	1:1	10	0.246	1.426	0.351	-
680.5	136100	CP OFDM QPSK	20	23.5	22.24	-0.01	Rear	1.5	1	1	1:1	10	0.242	1.337	0.324	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band n77 Hotspot SAR– Sub #3 Ant.

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)	(W/kg)		(W/kg)	
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.87	0.10	Rear	0	1	271	1:1	10	0.323	1.156	0.373	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.95	-0.12	Rear	0	135	69	1:1	10	0.390	1.135	0.443	-
3 930	662000	DFT-s OFDM QPSK	100	18.5	17.32	0.10	Rear	0	135	0	1:1	10	0.284	1.312	0.373	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.89	-0.18	Rear	0	270	0	1:1	10	0.275	1.151	0.316	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.87	0.00	Front	0	1	271	1:1	10	0.108	1.156	0.125	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.95	0.00	Front	0	135	69	1:1	10	0.103	1.135	0.117	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.87	0.12	Left	0	1	271	1:1	10	0.503	1.156	0.582	-
3 930	662000	DFT-s OFDM QPSK	100	18.5	17.45	0.12	Left	0	1	1	1:1	10	0.395	1.274	0.503	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.95	0.12	Left	0	135	69	1:1	10	0.540	1.135	0.613	101
3 930	662000	DFT-s OFDM QPSK	100	18.5	17.32	0.11	Left	0	135	0	1:1	10	0.427	1.312	0.560	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.89	0.18	Left	0	270	0	1:1	10	0.490	1.151	0.564	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.87	0.16	Top	0	1	271	1:1	10	0.064	1.156	0.074	-
3 750	650000	DFT-s OFDM QPSK	100	18.5	17.95	0.12	Top	0	135	69	1:1	10	0.075	1.135	0.085	-
3 750	650000	CP OFDM QPSK	100	18.5	17.81	-0.15	Left	0	1	1	1:1	10	0.533	1.172	0.625	102
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band n77 SRS Hotspot SAR– Sub #3 Ant.

Frequency		Mode	Ant	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)				(mm)			(W/kg)	
3 750	650000	SRS 1	Sub #5	100	16.0	14.33	0.11	Rear	0	1	1	1:3.70	10	0.205	1.469	0.301	-
3 750	650000	SRS 1		100	16.0	14.33	-0.02	Front	0	1	1	1:3.70	10	0.122	1.469	0.179	-
3 750	650000	SRS 1		100	16.0	14.33	0.10	Right	0	1	1	1:3.70	10	0.366	1.469	0.538	-
3 750	650000	SRS 1		100	16.0	14.33	0.17	Top	0	1	1	1:3.70	10	0.026	1.469	0.038	-
3 930	6620000	SRS 2	Main #2	100	17.0	16.81	0.10	Rear	0	1	1	1:3.70	10	0.148	1.045	0.155	-
3 930	662000	SRS 2		100	17.0	16.81	-0.14	Front	0	1	1	1:3.70	10	0.114	1.045	0.119	-
3 930	662000	SRS 2		100	17.0	16.81	0.11	Left	0	1	1	1:3.70	10	0.079	1.045	0.083	-
3 930	662000	SRS 2		100	17.0	16.81	0.13	Bottom	0	1	1	1:3.70	10	0.098	1.045	0.102	-
3 750	650000	SRS 3	Main #3	100	18.5	16.21	0.00	Rear	0	1	1	1:3.70	10	0.023	1.694	0.039	-
3 750	650000	SRS 3		100	18.5	16.21	0.00	Front	0	1	1	1:3.70	10	0.000	1.694	0.000	-
3 750	650000	SRS 3		100	18.5	16.21	0.00	Left	0	1	1	1:3.70	10	0.000	1.694	0.000	-
3 750	650000	SRS 3		100	18.5	16.21	-0.13	Bottom	0	1	1	1:3.70	10	0.000187	1.694	0.000	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

NR Band n77DoD Hotspot SAR– SRS

Frequency		Mode	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(dBm)	(dBm)	(dB)		(dB)	(mm)	(W/kg)		(W/kg)				
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.54	0.10	Rear	0	1	137	1:1	10	0.357	1.247	0.445	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.56	-0.13	Rear	0	135	138	1:1	10	0.432	1.242	0.536	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.54	0.10	Front	0	1	137	1:1	10	0.080	1.247	0.100	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.56	0.10	Front	0	135	138	1:1	10	0.099	1.242	0.123	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.54	0.13	Left	0	1	137	1:1	10	0.495	1.247	0.617	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.56	-0.16	Left	0	135	138	1:1	10	0.459	1.242	0.570	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.54	0.11	Top	0	1	137	1:1	10	0.046	1.247	0.057	-
3 500.01	633334	DFT-s OFDM QPSK	100	18.5	17.56	0.10	Top	0	135	138	1:1	10	0.048	1.242	0.060	-
3 500.01	633334	CP OFDM QPSK	100	18.5	17.51	0.18	Left	0	1	1	1:1	10	0.483	1.256	0.607	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body 1.6 W/kg Averaged over 1 gram									

NR Band n77DoD_SRS Hotspot SAR

Frequency		Mode	Antenna	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)	(dB)	(mm)		(W/kg)		(W/kg)		
3 500.01	633334	SRS 1	Sub #5	100	16.0	14.92	0.11	Rear	0	1	1	1:3.70	10	0.519	1.282	0.666	-
3 500.01	633334	SRS 1		100	16.0	14.92	-0.06	Front	0	1	1	1:3.70	10	0.097	1.282	0.124	-
3 500.01	633334	SRS 1		100	16.0	14.92	0.12	Right	0	1	1	1:3.70	10	0.601	1.282	0.771	103
3 500.01	633334	SRS 1		100	16.0	14.92	0.17	Top	0	1	1	1:3.70	10	0.052	1.282	0.067	-
3 500.01	633334	SRS 2	Main #2	100	17.0	16.50	-0.19	Rear	0	1	1	1:3.70	10	0.176	1.122	0.197	-
3 500.01	633334	SRS 2		100	17.0	16.50	0.05	Front	0	1	1	1:3.70	10	0.136	1.122	0.153	-
3 500.01	633334	SRS 2		100	17.0	16.50	0.17	Left	0	1	1	1:3.70	10	0.161	1.122	0.181	-
3 500.01	633334	SRS 2		100	17.0	16.50	0.16	Bottom	0	1	1	1:3.70	10	0.167	1.122	0.187	-
3 500.01	633334	SRS 3	Main #3	100	18.5	17.70	0.15	Rear	0	1	1	1:3.70	10	0.078	1.202	0.094	-
3 500.01	633334	SRS 3		100	18.5	17.70	0.00	Front	0	1	1	1:3.70	10	0.000	1.202	0.000	-
3 500.01	633334	SRS 3		100	18.5	17.70	0.00	Left	0	1	1	1:3.70	10	0.000	1.202	0.000	-
3 500.01	633334	SRS 3		100	18.5	17.70	0.11	Bottom	0	1	1	1:3.70	10	0.00724	1.202	0.009	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram									

DTS Hotspot SAR																	
Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant. Config.	Duty Cycle	Distance	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor (Duty)	Scaled SAR (W/kg)	Plot No.
MHz	Ch.		(MHz)	(Mbps)	(dBm)	(dBm)	(dB)				(mm)	(W/kg)	(W/kg)				
2 462	11	802.11b	20	1	11.0	9.60	0.13	Rear	Ant.2	98.8	10	0.116	0.066	1.380	1.013	0.092	-
2 462	11	802.11b	20	1	11.0	9.60	0.01	Front	Ant.2	98.8	10	0.0322	0.00939	1.380	1.013	0.013	-
2 462	11	802.11b	20	1	11.0	9.60	0.19	Left	Ant.2	98.8	10	0.0325	0.015	1.380	1.013	0.021	-
2 462	11	802.11b	20	1	11.0	9.60	-0.10	Top	Ant.2	98.8	10	0.0125	0.00245	1.380	1.013	0.003	-
2 462	11	802.11b	20	1	14.0	12.60	-0.12	Rear	MIMO	98.8	10	1.060	0.539	1.387	1.013	0.757	104
2 462	11	802.11b	20	1	14.0	12.60	0.01	Front	MIMO	98.8	10	0.0261	0.00847	1.387	1.013	0.012	-
2 462	11	802.11b	20	1	14.0	12.60	0.12	Left	MIMO	98.8	10	0.0550	0.028	1.387	1.013	0.039	-
2 462	11	802.11b	20	1	14.0	12.60	0.01	Top	MIMO	98.8	10	0.0175	0.00606	1.387	1.013	0.009	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram								

NII Hotspot SAR																	
Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant. Config.	Duty Cycle	Distance	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(MHz)	(Mbps)	(dBm)	(dBm)	(dB)				(mm)	(W/kg)	(W/kg)		(Duty)	(W/kg)	
5 745	149	802.11a	20	6	20.0	18.79	-0.09	Rear	MIMO	93.3	10	0.765	0.335	1.442	1.072	0.518	105
5 745	149	802.11a	20	6	20.0	18.79	0.01	Front	MIMO	93.3	10	0.188	0.036	1.442	1.072	0.056	-
5 745	149	802.11a	20	6	20.0	18.79	0.17	Left	MIMO	93.3	10	0.558	0.233	1.442	1.072	0.360	-
5 745	149	802.11a	20	6	20.0	18.79	0.14	Top	MIMO	93.3	10	0.386	0.171	1.442	1.072	0.264	-
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram								

DSS Hotspot SAR													
Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Ant. Config	Distance (mm)	Meas. SAR	Scaling Factor	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dBm)	(dBm)	(dB)				(W/kg)		(Duty)	(W/kg)	
2 402	0	Bluetooth DH5	14.5	14.42	0.16	Rear	-	10	0.390	1.019	1.299	0.516	106
2 402	0	Bluetooth DH5	14.5	14.42	-0.13	Front	-	10	0.00199	1.019	1.299	0.003	-
2 402	0	Bluetooth DH5	14.5	14.42	0.17	Left	-	10	0.022	1.019	1.299	0.029	-
2 402	0	Bluetooth DH5	14.5	14.42	0.13	Top	-	10	0.014	1.019	1.299	0.019	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body 1.6 W/kg Averaged over 1 gram							

13.4 Phablet SAR Measurement Considerations

Per FCC KDB 648474 D04v01r03, this device is considered a “Phablet” since the diagonal dimension is greater than 160 mm and less than 200 mm. Therefore, extremity SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR >1.2 W/kg. When hotspot mode applies, 10g SAR required only for the surfaces and edges with hotspot mode scaled to the maximum output power (including tolerance) is 1g SAR > 1.2 W/kg.

13.5 Phablet SAR Measurement Results (DSI=3,4)

GSM 1900 Phablet SAR 10g- Main #2 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
1 880	661	GPRS 2TX	26.5	25.43	0.19	Rear	ON	1:4.15	0	0.629	1.279	0.805	-
1 880	661	GPRS 2TX	30.0	28.68	-0.04	Front	N/A	1:4.15	0	1.110	1.355	1.504	107
1 880	661	GPRS 2TX	30.0	28.68	0.15	Left	N/A	1:4.15	0	0.630	1.355	0.854	-
1 880	661	GPRS 2TX	26.5	25.43	0.14	Bottom	ON	1:4.15	0	0.413	1.279	0.528	-
1 880	661	GPRS 2TX	30.0	28.68	0.16	Rear	OFF	1:4.15	19	0.094	1.355	0.127	-
1 880	661	GPRS 2TX	30.0	28.68	-0.03	Bottom	OFF	1:4.15	13	0.195	1.355	0.264	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Hand 4.0 W/kg Averaged over 10 gram							

UMTS Band 2 Phablet SAR 10g- Main #2 Ant.

Frequency		Mode	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	Duty Cycle	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.		(dB)	(dB)	(dB)				(mm)	(W/kg)		(W/kg)	
1 880	9400	RMC	22.5	21.39	0.11	Rear	ON	1:1	0	1.010	1.291	1.304	-
1 880	9400	RMC	24.5	23.38	-0.17	Front	N/A	1:1	0	1.520	1.294	1.967	108
1 880	9400	RMC	24.5	23.38	0.18	Left	N/A	1:1	0	1.030	1.294	1.333	-
1 880	9400	RMC	22.5	21.39	0.09	Bottom	ON	1:1	0	0.755	1.291	0.975	-
1 880	9400	RMC	24.5	23.38	0.07	Rear	OFF	1:1	19	0.155	1.294	0.201	-
1 880	9400	RMC	24.5	23.38	0.18	Bottom	OFF	1:1	13	0.012	1.294	0.016	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Hand 4.0 W/kg Averaged over 10 gram							

NII Phablet SAR 10g																		
Frequency		Mode	Band width	Data Rate	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Sensor	Ant. Config.	Duty Cycle	Distance (mm)	Area Scan Peak SAR	Meas. SAR	Scaling Factor	Scaling Factor (Duty)	Scaled SAR	Plot No.
Mhz	Ch.		(Mhz)	(Mbps)	(dBm)	(dBm)	(dB)						(W/kg)	(W/kg)			(W/kg)	
5 260	52	802.11a	20	6	20.0	19.57	-0.15	Rear	N/A	MIMO	93.3	0	10.100	0.892	1.225	1.072	1.171	-
5 260	52	802.11a	20	6	20.0	19.57	0.00	Front	N/A	MIMO	93.3	0	1.100	0.138	1.225	1.072	0.181	-
5 260	52	802.11a	20	6	20.0	19.57	-0.19	Left	N/A	MIMO	93.3	0	5.970	0.498	1.225	1.072	0.654	-
5 260	52	802.11a	20	6	20.0	19.57	0.19	Top	N/A	MIMO	93.3	0	1.050	0.155	1.225	1.072	0.204	-
5 600	120	802.11a	20	6	20.0	18.75	0.01	Rear	N/A	MIMO	93.3	0	15.500	0.926	1.349	1.072	1.339	109
5 600	120	802.11a	20	6	20.0	18.75	0.00	Front	N/A	MIMO	93.3	0	1.180	0.133	1.349	1.072	0.192	-
5 600	120	802.11a	20	6	20.0	18.75	0.13	Left	N/A	MIMO	93.3	0	3.840	0.330	1.349	1.072	0.477	-
5 600	120	802.11a	20	6	20.0	18.75	0.14	Top	N/A	MIMO	93.3	0	1.060	0.162	1.349	1.072	0.234	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Hand 4.0 W/kg Averaged over 10 gram								

13.6 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Procedure.
2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D01v06.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB 648474 D04v01r03, SAR was evaluated without a headset connected to the device. Since the standalone reported SAR was 1.2 W/kg, no additional SAR evaluation using a headset cable were required.
8. Per KDB 648474 D04v01r03, this device is considered a "Phablet" since the diagonal dimension is > 160 mm and < 200 mm. When hotspot mode applies, extremity SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (with tolerance) is 1 g SAR > 1.2 W/kg.
9. Per FCC KDB 865664 D01v01r04, variability SAR measurement were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg for 1g SAR and >2 for 10g SAR Please see Section 15 for variability analysis.
10. This device utilizes power reduction for some wireless mode and technologies, as outlined in sec. 4 The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous scenarios.
11. During SAR testing for the Hotspot conditions per KDB 941225 D06v02r01, the actual portable hotspot operation (with actual simultaneous transmission of a transmitter with WiFi) was not activated.

GSM/GPRS Test Notes:

1. This EUT'S GSM and GPRS device class is B.
2. This device supports GPRS VOIP in the head and the body-worn configurations therefore GPRS was additionally evaluated for head and body-worn compliance.
3. Justification for reduced test configurations per KDB 941225 D01v03r01: The source-based time-averaged output power was evaluated for all multi-slot operations. The multi-slot configuration with the highest frame averaged output power including tolerance was evaluated for SAR.
4. Per FCC KDB 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is 1/2 dB, instead of the middle channel, the highest output power channel must be used.

UMTS Notes:

1. The 12.2 kbps RMC mode is the primary mode per KDB 941225 D01v03r01.
2. UMTS SAR was tested under RMC 12.2 kbps with HSPA inactive per KDB publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
3. Per FCC KDB 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the channel

highest output power channel was used.

LTE Notes:

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Consideration for LTE Devices in FCC KDB 941225 D05v02r05.
2. According to FCC KDB 941225 D05v02r05:
When the reported SAR is 0.8 W/kg, testing of the 100% RB allocation and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the 1RB, 50%RB and 100%RB allocation with highest output power for that channel.
Only one channel, and as reported SAR values for 1RB allocation and 50%RB allocation were less than 1.45W/kg only the highest power RB offset for each allocation was required.
3. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to target MPR is indicated alongside the SAR results.
4. When Power reduction is applied, MPR is 0 for some modes.
5. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator.
6. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) LTE TDD Band 41 SAR measured at the highest output power channel for each test configuration is 0.6 W/kg then testing at the other channels is not required for such test configurations.
7. TDD LTE (Power Class 3) was tested using UL-DL configuration 0 with 6 UL sub frames and 2S subframes using extended cyclic prefix only and special sub frame configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Sec. 4, the duty factor using extended cyclic prefix is 0.633(cf=1.58).
8. Per KDB 941225 D05Av01r02, SAR for LTE Carrier Aggregation operations was not needed because the maximum average output power in LTE CA mode was not > 0.25 dB higher than the maximum output power when downlink CA was not activated.
9. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The Highest available duty cycle for Power Class 2 operations is 43.3% using UL-DL configuration 1. Per May TCB Workshop 2017 notes, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions.
10. This device supports LTE Carrier Aggregation(CA) in Uplink for LTE 41C with two component carriers in the uplink. SAR measurements and conducted powers were evaluated per Fall 2017 TCBC Workshop notes (LTE Carrier aggregation).
For LTE Band per 2017 TCBC Workshop notes ,SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active.
Because the maximum output for UL CA of LTE 41C is $\leq$ standalone LTE mode (without CA), SAR for LTE41C Up link CA was performed at the highest standalone SAR configuration without CA and also UL CA SAR is not required for all required test channels, Because the reported SAR for UL CA configuration is < 1.4 W/kg.
The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.
11. SAR test reduction is applied using the following criteria:
Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is >0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel. Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel

when the highest reported SAR for 1 RB and 50% RB are >0.8 W/kg, testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation <1.45 W/kg. Testing for 16-QAM modulation is not required because the reported SAR for QPSK is <1.45 W/kg and its output power is not more than 0.5 dB higher than that a QPSK. Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is <1.45 W/kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.

NR Notes:

1. Due to Limitations of the SAR measurement equipment, SAR testing for NR was performed using test mode (FTM) software.
2. More detailed specifications of the NR bands are contained in the Technical description document.
3. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
4. For NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
5. For final implementation, TDD NR slot configuration is synchronized using maximum duty cycle of 100%.
6. Since NR TDD's SAR measurement power level is the same as PC2 and PC3, PC3 mode is higher than PC2 mode when comparing 50% of NR TDD PC2's maximum duty factor and 100% of PC3 with measurement power. Therefore, 100% duty factor was applied to perform SAR measurement.
7. In order to satisfy the limitations of the duty factor of the 5G NR TDD band and the FCC RF exposure, it was tested as n41 band 21.0 dBm and n77 band 17.5 dBm to which duty factor 100% was applied to all SAR test configurations in the 5G NR TDD mode.

WLAN Notes:

1. For held-to-ear and hotspot operations, the initial test position procedures were applied. For initial test position, the highest extrapolated peak SAR will be used. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g SAR and ≤ 1.0 W/kg for 10g SAR, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR results is ≤ 0.8 W/kg for 1g SAR and ≤ 2.0 W/kg for 10g SAR or all test position are measured.
2. Per KDB 2482227 D01v02r02 justification for test configurations of 2.4 GHz WiFi Single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11 g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR
3. Per KDB 2482227 D01v02r02 justification for test configurations of 5 GHz WiFi Single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission mode were not investigated since the highest reported SAR for initial test configuration adjusted by the ration of maximum output powers is less than 1.2 W/kg for 1g SAR and less than 3.0 W/kg for 10 g SAR.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg or all test channels were measured.
5. The device was configured to transmit continuously at the required data rated, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated WLAN test reports.

Bluetooth Notes:

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests mode type. Per October 2016 TCBC Workshop Notes, the reported SAR was scaled to 100% transmission duty factor to determine compliance. Please see sec.11 for the time-domain plot and calculation for duty factor of the device.
2. Head and Bluetooth tethering SAR were evaluated for BT BR tethering applications.

14. Simultaneous SAR Analysis

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per KDB Publication 447498 D01v06 4.3.2, simultaneous transmission SAR test exclusion may be applied when the sum of 1g SAR and 10g SAR for all the simultaneous transmitting antennas in a specific physical test configuration is $\leq 1.6\text{W/kg}$ for 1g SAR and $\leq 4\text{ W/kg}$ for 10g SAR. The different test positions in an exposure condition may be considered collectively to determine SAR exclusion according to the sum of 1g or 10g SAR.

14.1 Head SAR Simultaneous Transmission Analysis.

Simultaneous Transmission Summation Scenario (Head SAR)											
Band		Main SAR	Bluetooth Ant.1 SAR	6 GHz MIMO WLAN SAR	5 GHz MIMO WLAN SAR	2.4 GHz Ant2 WLAN SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	$\sum$ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/ No)
		1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	
GSM850	Left Touch	0.302	0.015	0.029	0.035	0.017	0.317	0.346	0.352	0.334	No
	Left Tilt	0.164	0.013	0.029	0.047	0.003	0.177	0.206	0.224	0.180	No
	Right Touch	0.375	0.010	0.037	0.072	0.045	0.385	0.422	0.457	0.430	No
	Right Tilt	0.186	0.008	0.028	0.047	0.010	0.194	0.222	0.241	0.204	No
GPRS850	Left Touch	0.424	0.015	0.029	0.035	0.017	0.439	0.468	0.474	0.456	No
	Left Tilt	0.256	0.013	0.029	0.047	0.003	0.269	0.298	0.316	0.272	No
	Right Touch	0.459	0.010	0.037	0.072	0.045	0.469	0.506	0.541	0.514	No
	Right Tilt	0.251	0.008	0.028	0.047	0.010	0.259	0.287	0.306	0.269	No
GSM1900	Left Touch	0.291	0.015	0.029	0.035	0.017	0.306	0.335	0.341	0.323	No
	Left Tilt	0.108	0.013	0.029	0.047	0.003	0.121	0.150	0.168	0.124	No
	Right Touch	0.189	0.010	0.037	0.072	0.045	0.199	0.236	0.271	0.244	No
	Right Tilt	0.143	0.008	0.028	0.047	0.010	0.151	0.179	0.198	0.161	No
GPRS1900	Left Touch	0.369	0.015	0.029	0.035	0.017	0.384	0.413	0.419	0.401	No
	Left Tilt	0.134	0.013	0.029	0.047	0.003	0.147	0.176	0.194	0.150	No
	Right Touch	0.244	0.010	0.037	0.072	0.045	0.254	0.291	0.326	0.299	No
	Right Tilt	0.173	0.008	0.028	0.047	0.010	0.181	0.209	0.228	0.191	No
UMTS Band 5	Left Touch	0.261	0.015	0.029	0.035	0.017	0.276	0.305	0.311	0.293	No
	Left Tilt	0.139	0.013	0.029	0.047	0.003	0.152	0.181	0.199	0.155	No
	Right Touch	0.290	0.010	0.037	0.072	0.045	0.300	0.337	0.372	0.345	No
	Right Tilt	0.159	0.008	0.028	0.047	0.010	0.167	0.195	0.214	0.177	No
UMTS Band 4	Left Touch	0.156	0.015	0.029	0.035	0.017	0.171	0.200	0.206	0.188	No
	Left Tilt	0.087	0.013	0.029	0.047	0.003	0.100	0.129	0.147	0.103	No
	Right Touch	0.242	0.010	0.037	0.072	0.045	0.252	0.289	0.324	0.297	No
	Right Tilt	0.160	0.008	0.028	0.047	0.010	0.168	0.196	0.215	0.178	No
UMTS Band 2	Left Touch	0.321	0.015	0.029	0.035	0.017	0.336	0.365	0.371	0.353	No
	Left Tilt	0.098	0.013	0.029	0.047	0.003	0.111	0.140	0.158	0.114	No
	Right Touch	0.374	0.010	0.037	0.072	0.045	0.384	0.421	0.456	0.429	No
	Right Tilt	0.263	0.008	0.028	0.047	0.010	0.271	0.299	0.318	0.281	No
LTE Band 7	Left Touch	0.521	0.015	0.029	0.035	0.017	0.536	0.565	0.571	0.553	No
	Left Tilt	0.178	0.013	0.029	0.047	0.003	0.191	0.220	0.238	0.194	No
	Right Touch	0.332	0.010	0.037	0.072	0.045	0.342	0.379	0.414	0.387	No
	Right Tilt	0.318	0.008	0.028	0.047	0.010	0.326	0.354	0.373	0.336	No
LTE Band 12	Left Touch	0.355	0.015	0.029	0.035	0.017	0.370	0.399	0.405	0.387	No
	Left Tilt	0.146	0.013	0.029	0.047	0.003	0.159	0.188	0.206	0.162	No
	Right Touch	0.385	0.010	0.037	0.072	0.045	0.395	0.432	0.467	0.440	No
	Right Tilt	0.184	0.008	0.028	0.047	0.010	0.192	0.220	0.239	0.202	No

Simultaneous Transmission Summation Scenario (Head SAR)											
Band		Main SAR	Bluetooth Ant.1 SAR	6 GHz MIMO WLAN SAR	5 GHz MIMO WLAN SAR	2.4 GHz Ant2 WLAN SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/ No)
		1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	
LTE Band 13	Left Touch	0.205	0.015	0.029	0.035	0.017	0.220	0.249	0.255	0.237	No
	Left Tilt	0.095	0.013	0.029	0.047	0.003	0.108	0.137	0.155	0.111	No
	Right Touch	0.230	0.010	0.037	0.072	0.045	0.240	0.277	0.312	0.285	No
	Right Tilt	0.123	0.008	0.028	0.047	0.010	0.131	0.159	0.178	0.141	No
LTE Band 14	Left Touch	0.163	0.015	0.029	0.035	0.017	0.178	0.207	0.213	0.195	No
	Left Tilt	0.098	0.013	0.029	0.047	0.003	0.111	0.140	0.158	0.114	No
	Right Touch	0.182	0.010	0.037	0.072	0.045	0.192	0.229	0.264	0.237	No
	Right Tilt	0.101	0.008	0.028	0.047	0.010	0.109	0.137	0.156	0.119	No
LTE Band 25 Lower	Left Touch	0.536	0.015	0.029	0.035	0.017	0.551	0.580	0.586	0.568	No
	Left Tilt	0.202	0.013	0.029	0.047	0.003	0.215	0.244	0.262	0.218	No
	Right Touch	0.398	0.010	0.037	0.072	0.045	0.408	0.445	0.480	0.453	No
	Right Tilt	0.239	0.008	0.028	0.047	0.010	0.247	0.275	0.294	0.257	No
LTE Band 25 Upper	Left Touch	0.956	0.015	0.029	0.035	0.017	0.971	1.000	1.006	0.988	No
	Left Tilt	0.447	0.013	0.029	0.047	0.003	0.460	0.489	0.507	0.463	No
	Right Touch	0.453	0.010	0.037	0.072	0.045	0.463	0.500	0.535	0.508	No
	Right Tilt	0.471	0.008	0.028	0.047	0.010	0.479	0.507	0.526	0.489	No
LTE Band 26	Left Touch	0.392	0.015	0.029	0.035	0.017	0.407	0.436	0.442	0.424	No
	Left Tilt	0.190	0.013	0.029	0.047	0.003	0.203	0.232	0.250	0.206	No
	Right Touch	0.469	0.010	0.037	0.072	0.045	0.479	0.516	0.551	0.524	No
	Right Tilt	0.234	0.008	0.028	0.047	0.010	0.242	0.270	0.289	0.252	No
LTE Band 30	Left Touch	0.361	0.015	0.029	0.035	0.017	0.376	0.405	0.411	0.393	No
	Left Tilt	0.081	0.013	0.029	0.047	0.003	0.094	0.123	0.141	0.097	No
	Right Touch	0.205	0.010	0.037	0.072	0.045	0.215	0.252	0.287	0.260	No
	Right Tilt	0.152	0.008	0.028	0.047	0.010	0.160	0.188	0.207	0.170	No
LTE Band 40 Upper	Left Touch	0.008	0.015	0.029	0.035	0.017	0.023	0.052	0.058	0.040	No
	Left Tilt	0.001	0.013	0.029	0.047	0.003	0.014	0.043	0.061	0.017	No
	Right Touch	0.000	0.010	0.037	0.072	0.045	0.010	0.047	0.082	0.055	No
	Right Tilt	0.000	0.008	0.028	0.047	0.010	0.008	0.036	0.055	0.018	No
LTE Band 40 Lower	Left Touch	0.006	0.015	0.029	0.035	0.017	0.021	0.050	0.056	0.038	No
	Left Tilt	0.000	0.013	0.029	0.047	0.003	0.013	0.042	0.060	0.016	No
	Right Touch	0.000	0.010	0.037	0.072	0.045	0.010	0.047	0.082	0.055	No
	Right Tilt	0.000	0.008	0.028	0.047	0.010	0.008	0.036	0.055	0.018	No
LTE Band 41	Left Touch	0.200	0.015	0.029	0.035	0.017	0.215	0.244	0.250	0.232	No
	Left Tilt	0.040	0.013	0.029	0.047	0.003	0.053	0.082	0.100	0.056	No
	Right Touch	0.124	0.010	0.037	0.072	0.045	0.134	0.171	0.206	0.179	No
	Right Tilt	0.079	0.008	0.028	0.047	0.010	0.087	0.115	0.134	0.097	No

Simultaneous Transmission Summation Scenario (Head SAR)											
Band		Main SAR	Bluetooth Ant.1 SAR	6 GHz MIMO WLAN SAR	5 GHz MIMO WLAN SAR	2.4 GHz Ant2 WLAN SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/ No)
		1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	
LTE Band 48	Left Touch	0.253	0.015	0.029	0.035	0.017	0.268	0.297	0.303	0.285	No
	Left Tilt	0.203	0.013	0.029	0.047	0.003	0.216	0.245	0.263	0.219	No
	Right Touch	1.033	0.010	0.037	0.072	0.045	1.043	1.080	1.115	1.088	No
	Right Tilt	0.471	0.008	0.028	0.047	0.010	0.479	0.507	0.526	0.489	No
LTE Band 66 Lower	Left Touch	0.312	0.015	0.029	0.035	0.017	0.327	0.356	0.362	0.344	No
	Left Tilt	0.196	0.013	0.029	0.047	0.003	0.209	0.238	0.256	0.212	No
	Right Touch	0.242	0.010	0.037	0.072	0.045	0.252	0.289	0.324	0.297	No
	Right Tilt	0.155	0.008	0.028	0.047	0.010	0.163	0.191	0.210	0.173	No
LTE Band 66 Upper	Left Touch	0.748	0.015	0.029	0.035	0.017	0.763	0.792	0.798	0.780	No
	Left Tilt	0.365	0.013	0.029	0.047	0.003	0.378	0.407	0.425	0.381	No
	Right Touch	0.342	0.010	0.037	0.072	0.045	0.352	0.389	0.424	0.397	No
	Right Tilt	0.295	0.008	0.028	0.047	0.010	0.303	0.331	0.350	0.313	No
LTE Band 71	Left Touch	0.288	0.015	0.029	0.035	0.017	0.303	0.332	0.338	0.320	No
	Left Tilt	0.108	0.013	0.029	0.047	0.003	0.121	0.150	0.168	0.124	No
	Right Touch	0.321	0.010	0.037	0.072	0.045	0.331	0.368	0.403	0.376	No
	Right Tilt	0.140	0.008	0.028	0.047	0.010	0.148	0.176	0.195	0.158	No

Simultaneous Transmission Summation Scenario (Head SAR)											
Band		Main SAR	Bluetooth Ant.1 SAR	6 GHz MIMO WLAN SAR	5 GHz MIMO WLAN SAR	2.4 GHz Ant2 WLAN SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	
NR Band n5	Left Touch	0.361	0.015	0.029	0.035	0.017	0.376	0.405	0.411	0.393	No
	Left Tilt	0.196	0.013	0.029	0.047	0.003	0.209	0.238	0.256	0.212	No
	Right Touch	0.443	0.010	0.037	0.072	0.045	0.453	0.490	0.525	0.498	No
	Right Tilt	0.230	0.008	0.028	0.047	0.010	0.238	0.266	0.285	0.248	No
NR Band n12	Left Touch	0.256	0.015	0.029	0.035	0.017	0.271	0.300	0.306	0.288	No
	Left Tilt	0.119	0.013	0.029	0.047	0.003	0.132	0.161	0.179	0.135	No
	Right Touch	0.272	0.010	0.037	0.072	0.045	0.282	0.319	0.354	0.327	No
	Right Tilt	0.125	0.008	0.028	0.047	0.010	0.133	0.161	0.180	0.143	No
NR Band n25	Left Touch	0.465	0.015	0.029	0.035	0.017	0.480	0.509	0.515	0.497	No
	Left Tilt	0.186	0.013	0.029	0.047	0.003	0.199	0.228	0.246	0.202	No
	Right Touch	0.400	0.010	0.037	0.072	0.045	0.410	0.447	0.482	0.455	No
	Right Tilt	0.198	0.008	0.028	0.047	0.010	0.206	0.234	0.253	0.216	No
NR Band n30	Left Touch	0.413	0.015	0.029	0.035	0.017	0.428	0.457	0.463	0.445	No
	Left Tilt	0.103	0.013	0.029	0.047	0.003	0.116	0.145	0.163	0.119	No
	Right Touch	0.227	0.010	0.037	0.072	0.045	0.237	0.274	0.309	0.282	No
	Right Tilt	0.149	0.008	0.028	0.047	0.010	0.157	0.185	0.204	0.167	No
NR Band n41	Left Touch	0.394	0.015	0.029	0.035	0.017	0.409	0.438	0.444	0.426	No
	Left Tilt	0.119	0.013	0.029	0.047	0.003	0.132	0.161	0.179	0.135	No
	Right Touch	0.298	0.010	0.037	0.072	0.045	0.308	0.345	0.380	0.353	No
	Right Tilt	0.219	0.008	0.028	0.047	0.010	0.227	0.255	0.274	0.237	No
NR Band n66	Left Touch	0.396	0.015	0.029	0.035	0.017	0.411	0.440	0.446	0.428	No
	Left Tilt	0.261	0.013	0.029	0.047	0.003	0.274	0.303	0.321	0.277	No
	Right Touch	0.433	0.010	0.037	0.072	0.045	0.443	0.480	0.515	0.488	No
	Right Tilt	0.207	0.008	0.028	0.047	0.010	0.215	0.243	0.262	0.225	No
NR Band n71	Left Touch	0.271	0.015	0.029	0.035	0.017	0.286	0.315	0.321	0.303	No
	Left Tilt	0.125	0.013	0.029	0.047	0.003	0.138	0.167	0.185	0.141	No
	Right Touch	0.327	0.010	0.037	0.072	0.045	0.337	0.374	0.409	0.382	No
	Right Tilt	0.161	0.008	0.028	0.047	0.010	0.169	0.197	0.216	0.179	No
NR Band n77	Left Touch	0.617	0.015	0.029	0.035	0.017	0.632	0.661	0.667	0.649	No
	Left Tilt	0.311	0.013	0.029	0.047	0.003	0.324	0.353	0.371	0.327	No
	Right Touch	0.882	0.010	0.037	0.072	0.045	0.892	0.929	0.964	0.937	No
	Right Tilt	0.353	0.008	0.028	0.047	0.010	0.361	0.389	0.408	0.371	No
NR Band n77 DoD	Left Touch	0.673	0.015	0.029	0.035	0.017	0.688	0.717	0.723	0.705	No
	Left Tilt	0.155	0.013	0.029	0.047	0.003	0.168	0.197	0.215	0.171	No
	Right Touch	0.896	0.010	0.037	0.072	0.045	0.906	0.943	0.978	0.951	No
	Right Tilt	0.440	0.008	0.028	0.047	0.010	0.448	0.476	0.495	0.458	No

14.2 Body-Worn SAR Simultaneous Transmission Analysis.

Simultaneous Transmission Summation Scenario (Body-Worn SAR) – Distance: 15 mm											
Band		Main SAR	Bluetooth SAR	6 GHz MIMO WLAN SAR	5 GHz MIMO WLAN SAR	2.4 GHz Ant2 WLAN SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	
GSM850	Rear	0.323	0.413	0.099	0.382	0.249	0.736	0.835	1.118	0.985	No
	Front	0.335	0.000	0.012	0.059	0.022	0.335	0.347	0.394	0.357	No
GPRS850	Rear	0.425	0.413	0.099	0.382	0.249	0.838	0.937	1.220	1.087	No
	Front	0.397	0.000	0.012	0.059	0.022	0.397	0.409	0.456	0.419	No
GSM1900	Rear	0.208	0.413	0.099	0.382	0.249	0.621	0.720	1.003	0.870	No
	Front	0.246	0.000	0.012	0.059	0.022	0.246	0.258	0.305	0.268	No
GPRS1900	Rear	0.236	0.413	0.099	0.382	0.249	0.649	0.748	1.031	0.898	No
	Front	0.278	0.000	0.012	0.059	0.022	0.278	0.290	0.337	0.300	No
UMTS Band 5	Rear	0.260	0.413	0.099	0.382	0.249	0.673	0.772	1.055	0.922	No
	Front	0.288	0.000	0.012	0.059	0.022	0.288	0.300	0.347	0.310	No
UMTS Band 4	Rear	0.345	0.413	0.099	0.382	0.249	0.758	0.857	1.140	1.007	No
	Front	0.369	0.000	0.012	0.059	0.022	0.369	0.381	0.428	0.391	No
UMTS Band 2	Rear	0.471	0.413	0.099	0.382	0.249	0.884	0.983	1.266	1.133	No
	Front	0.518	0.000	0.012	0.059	0.022	0.518	0.530	0.577	0.540	No
LTE Band 7	Rear	0.468	0.413	0.099	0.382	0.249	0.881	0.980	1.263	1.130	No
	Front	0.627	0.000	0.012	0.059	0.022	0.627	0.639	0.686	0.649	No
LTE Band 12	Rear	0.326	0.413	0.099	0.382	0.249	0.739	0.838	1.121	0.988	No
	Front	0.317	0.000	0.012	0.059	0.022	0.317	0.329	0.376	0.339	No
LTE Band 13	Rear	0.325	0.413	0.099	0.382	0.249	0.738	0.837	1.120	0.987	No
	Front	0.302	0.000	0.012	0.059	0.022	0.302	0.314	0.361	0.324	No
LTE Band 14	Rear	0.239	0.413	0.099	0.382	0.249	0.652	0.751	1.034	0.901	No
	Front	0.245	0.000	0.012	0.059	0.022	0.245	0.257	0.304	0.267	No
LTE Band 25 Lower	Rear	0.379	0.413	0.099	0.382	0.249	0.792	0.891	1.174	1.041	No
	Front	0.524	0.000	0.012	0.059	0.022	0.524	0.536	0.583	0.546	No
LTE Band 25 Upper	Rear	0.263	0.413	0.099	0.382	0.249	0.676	0.775	1.058	0.925	No
	Front	0.311	0.000	0.012	0.059	0.022	0.311	0.323	0.370	0.333	No
LTE Band 26	Rear	0.411	0.413	0.099	0.382	0.249	0.824	0.923	1.206	1.073	No
	Front	0.413	0.000	0.012	0.059	0.022	0.413	0.425	0.472	0.435	No
LTE Band 30	Rear	0.204	0.413	0.099	0.382	0.249	0.617	0.716	0.999	0.866	No
	Front	0.372	0.000	0.012	0.059	0.022	0.372	0.384	0.431	0.394	No
LTE Band 40 Upper	Rear	0.014	0.413	0.099	0.382	0.249	0.427	0.526	0.809	0.676	No
	Front	0.011	0.000	0.012	0.059	0.022	0.011	0.023	0.070	0.033	No
LTE Band 40 Lower	Rear	0.007	0.413	0.099	0.382	0.249	0.420	0.519	0.802	0.669	No
	Front	0.008	0.000	0.012	0.059	0.022	0.008	0.020	0.067	0.030	No
LTE Band 41	Rear	0.221	0.413	0.099	0.382	0.249	0.634	0.733	1.016	0.883	No
	Front	0.508	0.000	0.012	0.059	0.022	0.508	0.520	0.567	0.530	No
LTE Band 48	Rear	0.360	0.413	0.099	0.382	0.249	0.773	0.872	1.155	1.022	No
	Front	0.133	0.000	0.012	0.059	0.022	0.133	0.145	0.192	0.155	No
LTE Band 66 Lower	Rear	0.292	0.413	0.099	0.382	0.249	0.705	0.804	1.087	0.954	No
	Front	0.395	0.000	0.012	0.059	0.022	0.395	0.407	0.454	0.417	No
LTE Band 66 Upper	Rear	0.185	0.413	0.099	0.382	0.249	0.598	0.697	0.980	0.847	No
	Front	0.235	0.000	0.012	0.059	0.022	0.235	0.247	0.294	0.257	No
LTE Band 71	Rear	0.359	0.413	0.099	0.382	0.249	0.772	0.871	1.154	1.021	No
	Front	0.315	0.000	0.012	0.059	0.022	0.315	0.327	0.374	0.337	No

Simultaneous Transmission Summation Scenario (Body-Worn SAR) – Distance: 15 mm											
Band		Main SAR	Bluetooth SAR	6 GHz MIMO WLAN SAR	5 GHz MIMO WLAN SAR	2.4 GHz Ant2 WLAN SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	5	1+2	1+2+3	1+2+4	1+2+5	
NR Band n5	Rear	0.417	0.413	0.099	0.382	0.249	0.830	0.929	1.212	1.079	No
	Front	0.430	0.000	0.012	0.059	0.022	0.430	0.442	0.489	0.452	No
NR Band n12	Rear	0.336	0.413	0.099	0.382	0.249	0.749	0.848	1.131	0.998	No
	Front	0.331	0.000	0.012	0.059	0.022	0.331	0.343	0.390	0.353	No
NR Band n25	Rear	0.346	0.413	0.099	0.382	0.249	0.759	0.858	1.141	1.008	No
	Front	0.483	0.000	0.012	0.059	0.022	0.483	0.495	0.542	0.505	No
NR Band n30	Rear	0.314	0.413	0.099	0.382	0.249	0.727	0.826	1.109	0.976	No
	Front	0.498	0.000	0.012	0.059	0.022	0.498	0.510	0.557	0.520	No
NR Band n41	Rear	0.362	0.413	0.099	0.382	0.249	0.775	0.874	1.157	1.024	No
	Front	0.471	0.000	0.012	0.059	0.022	0.471	0.483	0.530	0.493	No
NR Band n66	Rear	0.363	0.413	0.099	0.382	0.249	0.776	0.875	1.158	1.025	No
	Front	0.439	0.000	0.012	0.059	0.022	0.439	0.451	0.498	0.461	No
NR Band n71	Rear	0.245	0.413	0.099	0.382	0.249	0.658	0.757	1.040	0.907	No
	Front	0.262	0.000	0.012	0.059	0.022	0.262	0.274	0.321	0.284	No
NR Band n77	Rear	0.212	0.413	0.099	0.382	0.249	0.625	0.724	1.007	0.874	No
	Front	0.075	0.000	0.012	0.059	0.022	0.075	0.087	0.134	0.097	No
NR Band n77 DoD	Rear	0.312	0.413	0.099	0.382	0.249	0.725	0.824	1.107	0.974	No
	Front	0.096	0.000	0.012	0.059	0.022	0.096	0.108	0.155	0.118	No

14.3 Hotspot SAR Simultaneous Transmission Analysis.

Simultaneous Transmission Summation Scenario (Hotspot SAR) – Distance: 10 mm												
Band		Main SAR	Bluetooth Ant.1 SAR	5 GHz MIMO WLAN SAR	2.4 GHz Ant2 WLAN SAR	2.4 GHz MIMO LAN SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	4	5	1+2	1+3	1+2+3	1+2+4	1+5	
GSM850	Rear	0.378	0.516	0.518	0.092	0.757	0.894	0.896	1.412	0.986	1.135	No
	Front	0.169	0.003	0.056	0.013	0.012	0.172	0.225	0.228	0.185	0.181	No
	Left	0.121	0.029	0.360	0.021	0.039	0.150	0.481	0.510	0.171	0.160	No
	Right	0.188					0.188	0.188	0.188	0.188	0.188	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.257					0.257	0.257	0.257	0.257	0.257	No
GSM1900	Rear	0.786	0.516	0.518	0.092	0.757	1.302	1.304	1.820	1.394	1.543	Yes
	Front	0.764	0.003	0.056	0.013	0.012	0.767	0.820	0.823	0.780	0.776	No
	Left	0.45	0.029	0.360	0.021	0.039	0.479	0.810	0.839	0.500	0.489	No
	Right						0.000	0.000	0.000	0.000	0.000	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.581					0.581	0.581	0.581	0.581	0.581	No
UMTS Band 5	Rear	0.504	0.516	0.518	0.092	0.757	1.020	1.022	1.538	1.112	1.261	No
	Front	0.302	0.003	0.056	0.013	0.012	0.305	0.358	0.361	0.318	0.314	No
	Left	0.177	0.029	0.360	0.021	0.039	0.206	0.537	0.566	0.227	0.216	No
	Right	0.338					0.338	0.338	0.338	0.338	0.338	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.343					0.343	0.343	0.343	0.343	0.343	No
UMTS Band 4	Rear	0.545	0.516	0.518	0.092	0.757	1.061	1.063	1.579	1.153	1.302	No
	Front	0.553	0.003	0.056	0.013	0.012	0.556	0.609	0.612	0.569	0.565	No
	Left	0.364	0.029	0.360	0.021	0.039	0.393	0.724	0.753	0.414	0.403	No
	Right						0.000	0.000	0.000	0.000	0.000	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.576					0.576	0.576	0.576	0.576	0.576	No
UMTS Band 2	Rear	0.752	0.516	0.518	0.092	0.757	1.268	1.270	1.786	1.360	1.509	Yes
	Front	0.75	0.003	0.056	0.013	0.012	0.753	0.806	0.809	0.766	0.762	No
	Left	0.511	0.029	0.360	0.021	0.039	0.540	0.871	0.900	0.561	0.550	No
	Right						0.000	0.000	0.000	0.000	0.000	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.981					0.981	0.981	0.981	0.981	0.981	No
LTE Band 7	Rear	0.424	0.516	0.518	0.092	0.757	0.940	0.942	1.458	1.032	1.181	No
	Front	0.555	0.003	0.056	0.013	0.012	0.558	0.611	0.614	0.571	0.567	No
	Left	0.195	0.029	0.360	0.021	0.039	0.224	0.555	0.584	0.245	0.234	No
	Right	0.081					0.081	0.081	0.081	0.081	0.081	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.541					0.541	0.541	0.541	0.541	0.541	No

Simultaneous Transmission Summation Scenario (Hotspot SAR) – Distance: 10 mm												
Band		Main SAR	Bluetooth Ant.1 SAR	5 GHz MIMO WLAN SAR	2.4 GHz Ant2 WLAN SAR	2.4 GHz MIMO LAN SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/ No)
		1	2	3	4	5	1+2	1+3	1+2+3	1+2+4	1+5	
LTE Band 12	Rear	0.539	0.516	0.518	0.092	0.757	1.055	1.057	1.573	1.147	1.296	No
	Front	0.374	0.003	0.056	0.013	0.012	0.377	0.430	0.433	0.390	0.386	No
	Left	0.187	0.029	0.360	0.021	0.039	0.216	0.547	0.576	0.237	0.226	No
	Right	0.282					0.282	0.282	0.282	0.282	0.282	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.322					0.322	0.322	0.322	0.322	0.322	No
LTE Band 13	Rear	0.516	0.516	0.518	0.092	0.757	1.032	1.034	1.550	1.124	1.273	No
	Front	0.272	0.003	0.056	0.013	0.012	0.275	0.328	0.331	0.288	0.284	No
	Left	0.210	0.029	0.360	0.021	0.039	0.239	0.570	0.599	0.260	0.249	No
	Right	0.385					0.385	0.385	0.385	0.385	0.385	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.413					0.413	0.413	0.413	0.413	0.413	No
LTE Band 14	Rear	0.443	0.516	0.518	0.092	0.757	0.959	0.961	1.477	1.051	1.200	No
	Front	0.217	0.003	0.056	0.013	0.012	0.220	0.273	0.276	0.233	0.229	No
	Left	0.141	0.029	0.360	0.021	0.039	0.170	0.501	0.530	0.191	0.180	No
	Right	0.306					0.306	0.306	0.306	0.306	0.306	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.334					0.334	0.334	0.334	0.334	0.334	No
LTE Band 25 Lower	Rear	0.407	0.516	0.518	0.092	0.757	0.923	0.925	1.441	1.015	1.164	No
	Front	0.408	0.003	0.056	0.013	0.012	0.411	0.464	0.467	0.424	0.420	No
	Left	0.261	0.029	0.360	0.021	0.039	0.290	0.621	0.650	0.311	0.300	No
	Right	0.072					0.072	0.072	0.072	0.072	0.072	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.300					0.300	0.300	0.300	0.300	0.300	No
LTE Band 25 Upper	Rear	0.449	0.516	0.518	0.092	0.757	0.965	0.967	1.483	1.057	1.206	No
	Front	0.507	0.003	0.056	0.013	0.012	0.510	0.563	0.566	0.523	0.519	No
	Left		0.029	0.360	0.021	0.039	0.029	0.360	0.389	0.050	0.039	No
	Right	0.270					0.270	0.270	0.270	0.270	0.270	No
	Top	0.442	0.019	0.264	0.003	0.009	0.461	0.706	0.725	0.464	0.451	No
	Bottom	0.419					0.419	0.419	0.419	0.419	0.419	No
LTE Band 26	Rear	0.730	0.516	0.518	0.092	0.757	1.246	1.248	1.764	1.338	1.487	Yes
	Front	0.432	0.003	0.056	0.013	0.012	0.435	0.488	0.491	0.448	0.444	No
	Left	0.278	0.029	0.360	0.021	0.039	0.307	0.638	0.667	0.328	0.317	No
	Right	0.304					0.304	0.304	0.304	0.304	0.304	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.460					0.460	0.460	0.460	0.460	0.460	No

Simultaneous Transmission Summation Scenario (Hotspot SAR) – Distance: 10 mm												
Band		Main SAR	Bluetooth Ant.1 SAR	5 GHz MIMO WLAN SAR	2.4 GHz Ant2 WLAN SAR	2.4 GHz MIMO LAN SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/ No)
		1	2	3	4	5	1+2	1+3	1+2+3	1+2+4	1+5	
LTE Band 30	Rear	0.390	0.516	0.518	0.092	0.757	0.906	0.908	1.424	0.998	1.147	No
	Front	0.581	0.003	0.056	0.013	0.012	0.584	0.637	0.640	0.597	0.593	No
	Left	0.263	0.029	0.360	0.021	0.039	0.292	0.623	0.652	0.313	0.302	No
	Right						0.000	0.000	0.000	0.000	0.000	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.477					0.477	0.477	0.477	0.477	0.477	No
LTE Band 40 Upper	Rear	0.018	0.516	0.518	0.092	0.757	0.534	0.536	1.052	0.626	0.775	No
	Front	0.024	0.003	0.056	0.013	0.012	0.027	0.080	0.083	0.040	0.036	No
	Left	0.013	0.029	0.360	0.021	0.039	0.042	0.373	0.402	0.063	0.052	No
	Right						0.000	0.000	0.000	0.000	0.000	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.033					0.033	0.033	0.033	0.033	0.033	No
LTE Band 40 Lower	Rear	0.017	0.516	0.518	0.092	0.757	0.533	0.535	1.051	0.625	0.774	No
	Front	0.021	0.003	0.056	0.013	0.012	0.024	0.077	0.080	0.037	0.033	No
	Left	0.014	0.029	0.360	0.021	0.039	0.043	0.374	0.403	0.064	0.053	No
	Right						0.000	0.000	0.000	0.000	0.000	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.029					0.029	0.029	0.029	0.029	0.029	No
LTE Band 41	Rear	0.480	0.516	0.518	0.092	0.757	0.996	0.998	1.514	1.088	1.237	No
	Front	0.501	0.003	0.056	0.013	0.012	0.504	0.557	0.560	0.517	0.513	No
	Left	0.167	0.029	0.360	0.021	0.039	0.196	0.527	0.556	0.217	0.206	No
	Right	0.102					0.102	0.102	0.102	0.102	0.102	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.804					0.804	0.804	0.804	0.804	0.804	No
LTE Band 48	Rear	0.591	0.516	0.518	0.092	0.757	1.107	1.109	1.625	1.199	1.348	Yes
	Front	0.217	0.003	0.056	0.013	0.012	0.220	0.273	0.276	0.233	0.229	No
	Left	1.059	0.029	0.360	0.021	0.039	1.088	1.419	1.448	1.109	1.098	No
	Right						0.000	0.000	0.000	0.000	0.000	No
	Top	0.113	0.019	0.264	0.003	0.009	0.132	0.377	0.396	0.135	0.122	No
	Bottom						0.000	0.000	0.000	0.000	0.000	No
LTE Band 66 Lower	Rear	0.531	0.516	0.518	0.092	0.757	1.047	1.049	1.565	1.139	1.288	No
	Front	0.397	0.003	0.056	0.013	0.012	0.400	0.453	0.456	0.413	0.409	No
	Left	0.255	0.029	0.360	0.021	0.039	0.284	0.615	0.644	0.305	0.294	No
	Right	0.089					0.089	0.089	0.089	0.089	0.089	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.236					0.236	0.236	0.236	0.236	0.236	No

Simultaneous Transmission Summation Scenario (Hotspot SAR) – Distance: 10 mm												
Band		Main SAR	Bluetooth Ant.1 SAR	5 GHz MIMO WLAN SAR	2.4 GHz Ant2 WLAN SAR	2.4 GHz MIMO LAN SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/ No)
		1	2	3	4	5	1+2	1+3	1+2+3	1+2+4	1+5	
LTE Band 66 Upper	Rear	0.448	0.516	0.518	0.092	0.757	0.964	0.966	1.482	1.056	1.205	No
	Front	0.480	0.003	0.056	0.013	0.012	0.483	0.536	0.539	0.496	0.492	No
	Left		0.029	0.360	0.021	0.039	0.029	0.360	0.389	0.050	0.039	No
	Right	0.358					0.358	0.358	0.358	0.358	0.358	No
	Top	0.304	0.019	0.264	0.003	0.009	0.323	0.568	0.587	0.326	0.313	No
	Bottom						0.000	0.000	0.000	0.000	0.000	No
LTE Band 71	Rear	0.520	0.516	0.518	0.092	0.757	1.036	1.038	1.554	1.128	1.277	No
	Front	0.324	0.003	0.056	0.013	0.012	0.327	0.380	0.383	0.340	0.336	No
	Left	0.240	0.029	0.360	0.021	0.039	0.269	0.600	0.629	0.290	0.279	No
	Right	0.328					0.328	0.328	0.328	0.328	0.328	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.378					0.378	0.378	0.378	0.378	0.378	No

Simultaneous Transmission Summation Scenario (Hotspot SAR) – Distance: 10 mm												
Band		Main SAR	Bluetooth Ant.1 SAR	5 GHz MIMO WLAN SAR	2.4 GHz Ant2 WLAN SAR	2.4 GHz MIMO WLAN SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/ No)
		1	2	3	4	5	1+2	1+3	1+2+3	1+2+4	1+5	
NR Band n5	Rear	0.791	0.516	0.518	0.092	0.757	1.307	1.309	1.825	1.399	1.548	Yes
	Front	0.433	0.003	0.056	0.013	0.012	0.436	0.489	0.492	0.449	0.445	No
	Left	0.281	0.029	0.360	0.021	0.039	0.310	0.641	0.670	0.331	0.320	No
	Right	0.431					0.431	0.431	0.431	0.431	0.431	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.491					0.491	0.491	0.491	0.491	0.491	No
NR Band n12	Rear	0.417	0.516	0.518	0.092	0.757	0.933	0.935	1.451	1.025	1.174	No
	Front	0.378	0.003	0.056	0.013	0.012	0.381	0.434	0.437	0.394	0.390	No
	Left	0.104	0.029	0.360	0.021	0.039	0.133	0.464	0.493	0.154	0.143	No
	Right	0.203					0.203	0.203	0.203	0.203	0.203	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.235					0.235	0.235	0.235	0.235	0.235	No
NR Band n25	Rear	0.398	0.516	0.518	0.092	0.757	0.914	0.916	1.432	1.006	1.155	No
	Front	0.448	0.003	0.056	0.013	0.012	0.451	0.504	0.507	0.464	0.460	No
	Left	0.214	0.029	0.360	0.021	0.039	0.243	0.574	0.603	0.264	0.253	No
	Right						0.000	0.000	0.000	0.000	0.000	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.647					0.647	0.647	0.647	0.647	0.647	No
NR Band n30	Rear	0.210	0.516	0.518	0.092	0.757	0.726	0.728	1.244	0.818	0.967	No
	Front	0.368	0.003	0.056	0.013	0.012	0.371	0.424	0.427	0.384	0.380	No
	Left	0.121	0.029	0.360	0.021	0.039	0.150	0.481	0.510	0.171	0.160	No
	Right						0.000	0.000	0.000	0.000	0.000	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.351					0.351	0.351	0.351	0.351	0.351	No
NR Band n41	Rear	0.585	0.516	0.518	0.092	0.757	1.101	1.103	1.619	1.193	1.342	Yes
	Front	0.810	0.003	0.056	0.013	0.012	0.813	0.866	0.869	0.826	0.822	No
	Left	0.298	0.029	0.360	0.021	0.039	0.327	0.658	0.687	0.348	0.337	No
	Right						0.000	0.000	0.000	0.000	0.000	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.627					0.627	0.627	0.627	0.627	0.627	No
NR Band n66	Rear	0.368	0.516	0.518	0.092	0.757	0.884	0.886	1.402	0.976	1.125	No
	Front	0.413	0.003	0.056	0.013	0.012	0.416	0.469	0.472	0.429	0.425	No
	Left	0.220	0.029	0.360	0.021	0.039	0.249	0.580	0.609	0.270	0.259	No
	Right						0.000	0.000	0.000	0.000	0.000	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.504					0.504	0.504	0.504	0.504	0.504	No

Simultaneous Transmission Summation Scenario (Hotspot SAR) – Distance: 10 mm												
Band		Main SAR	Bluetooth Ant.1 SAR	5 GHz MIMO WLAN SAR	2.4 GHz Ant2 WLAN SAR	2.4 GHz MIMO WLAN SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	Σ 1-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/ No)
		1	2	3	4	5	1+2	1+3	1+2+3	1+2+4	1+5	
NR Band n71	Rear	0.545	0.516	0.518	0.092	0.757	1.061	1.063	1.579	1.153	1.302	No
	Front	0.274	0.003	0.056	0.013	0.012	0.277	0.330	0.333	0.290	0.286	No
	Left	0.136	0.029	0.360	0.021	0.039	0.165	0.496	0.525	0.186	0.175	No
	Right	0.300					0.300	0.300	0.300	0.300	0.300	No
	Top		0.019	0.264	0.003	0.009	0.019	0.264	0.283	0.022	0.009	No
	Bottom	0.351					0.351	0.351	0.351	0.351	0.351	No
NR Band n77	Rear	0.443	0.516	0.518	0.092	0.757	0.959	0.961	1.477	1.051	1.200	No
	Front	0.179	0.003	0.056	0.013	0.012	0.182	0.235	0.238	0.195	0.191	No
	Left	0.625	0.029	0.360	0.021	0.039	0.654	0.985	1.014	0.675	0.664	No
	Right	0.538					0.538	0.538	0.538	0.538	0.538	No
	Top	0.085	0.019	0.264	0.003	0.009	0.104	0.349	0.368	0.107	0.094	No
	Bottom	0.102					0.102	0.102	0.102	0.102	0.102	No
NR Band n77 DoD	Rear	0.666	0.516	0.518	0.092	0.757	1.182	1.184	1.700	1.274	1.423	Yes
	Front	0.153	0.003	0.056	0.013	0.012	0.156	0.209	0.212	0.169	0.165	No
	Left	0.617	0.029	0.360	0.021	0.039	0.646	0.977	1.006	0.667	0.656	No
	Right	0.771					0.771	0.771	0.771	0.771	0.771	No
	Top	0.067	0.019	0.264	0.003	0.009	0.086	0.331	0.350	0.089	0.076	No
	Bottom	0.187					0.187	0.187	0.187	0.187	0.187	No

14.4 Phablet SAR Simultaneous Transmission Analysis

Simultaneous Transmission Summation Scenario (Phablet SAR)							
Band		WWAN SAR (10g)	5 GHz WLAN SAR (10g)	6 GHz WLAN SAR (10g)	Σ 10-g SAR	Σ 10-g SAR	SPLSR
		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(Yes/No)
		1	2	3	1+2	1+3	
GPRS 1900	Rear	0.805	1.339	0.233	2.144	1.038	No
	Front	1.504	0.192	0.012	1.696	1.516	No
	Left	0.854	0.654	0.076	1.508	0.930	No
	Right				0.000	0.000	No
	Top		0.234	0.029	0.234	0.029	No
	Bottom	0.528			0.528	0.528	No
UMTS Band 2	Rear	1.304	1.339	0.233	2.643	1.537	No
	Front	1.967	0.192	0.012	2.159	1.979	No
	Left	1.333	0.654	0.076	1.987	1.409	No
	Right				0.000	0.000	No
	Top		0.234	0.029	0.234	0.029	No
	Bottom	0.975			0.975	0.975	No

14.5 SAR to Peak Location Separation Ratio (SPLSR)

FCC KDB 447498 D01v06 General RF Exposure Guidance introduces a new formula for calculating the SAR a Peak Location Separation Ratio(SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR_i = (SAR_1 + SAR_2)^{1.5} / R_i$$

Where:

SAR_1 is the highest measured or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR_2 is the highest measured or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

R_i is the separation distance between the pair of simultaneous transmitting antennas, When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of $[(X_1 - X_2)^2 + (Y_1 - Y_2)^2 + (Z_1 - Z_2)^2]$

In order for a pair of simultaneous transmitting antennas with the sum 1-g of SAR > 1.6 W/kg and with the sum 10-g of SAR > 4 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR_1 + SAR_2)^{1.5} / R_i \leq 0.04 \text{ for 1g SAR and } (SAR_1 + SAR_2)^{1.5} / R_i \leq 0.1 \text{ for 10g SAR}$$

SPLSR Evaluation

Mode/Band	X(mm)	Y(mm)	Z(mm)	Reported SAR [W/kg]
GSM 1900	-0.0095	-0.0765	-0.206	0.263
UMTS 2	-0.0095	-0.0675	-0.206	0.752
LTE 26	-0.034	-0.082	-0.208	0.73
LTE 48	0.0074	0.0584	-0.209	0.591
NR n5	-0.0355	-0.078	-0.208	0.792
NR n41	0.0014	-0.0698	-0.209	0.597
NR n77 DoD	-0.0602	0.0504	-0.206	0.666
BT	-0.0014	0.0556	-0.206	0.516
WLAN 5GHz MIMO	0.0000000000874	0.077	-0.209	0.518

Postion	Max Mode			Sum 1g SAR	1+2 Peak SAR	1+3 Peak SAR	2+3 Peak SAR	SPLSR			Hybrid SPLSR
				[W/kg]	Separation Distance	Separation Distance	Separation Distance				
	1	2	3	1+2+3	[mm]	[mm]	[mm]	1+2	1+3	2+3	
Rear	GSM 1900	Bluetooth	5GHz MIMO WLAN	1.82	132.348	152.823	21.665	0.005	0.004	0.049	Yes
	UMTS Band 2			1.786	123.366	144.843	21.665	0.009	0.009	0.049	Yes
	LTE Band 26			1.764	141.423	162.598	21.665	0.016	0.015	0.049	Yes
	LTE Band 48			1.625	9.71	20.018	21.665	0.009	0.009	0.049	Yes
	NR Band n5			1.825	137.898	159.017	21.665	0.009	0.009	0.049	Yes
	NR Band n41			1.619	125.467	146.807	21.665	0.014	0.014	0.049	Yes
	NR Band n77 DoD			1.7	59.029	65.883	21.665	0.014	0.014	0.049	Yes

SPLSR Combination

This Procedure can only be applied when simultaneous transmission SAR is > 1.6 W/kg, it does not meet SPLSR criteria, and antenna pair is co-located

Test Procedure:

1.Perform enlarged zoom scan/volume scan on the co-located antenna pair to determine 1g aggregate SAR:

Enlarged zoom Scan/Volume scan Result Body

Configuration	Band	Measured SAR	Volume SAR	Scaled factor	Combined 1g SAR(W/kg)	Plot No.
5GHz MIMO WLAN+ Bluetooth	5GHz MIMO WLAN	0.518	0.303	1.546	0.740	#1
	Bluetooth	0.516	0.403	1.324		

2. Apply SPLSR procedure for the spatially separated antenna and aggregate SAR distribution of the co-located antenna pair

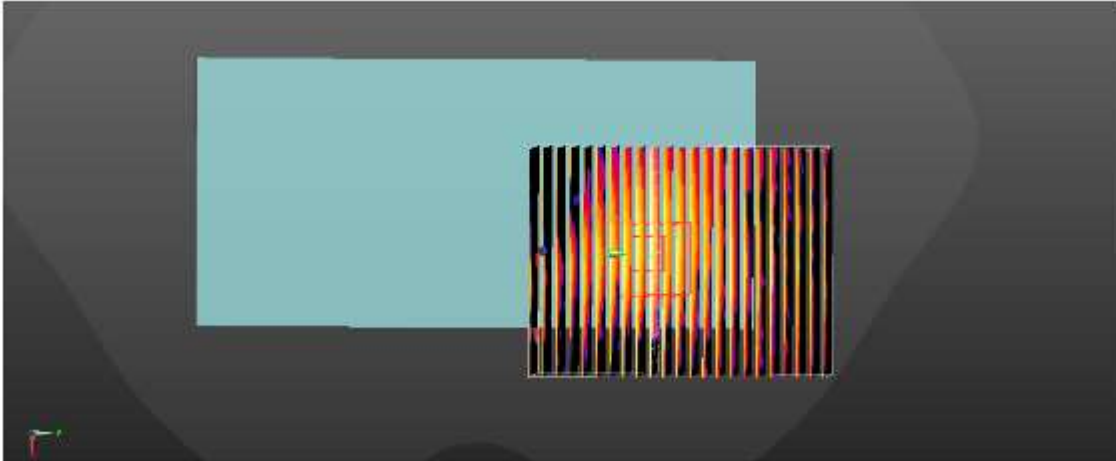
-The Peak location of aggregate SAR distribution Body

Mode/Band	X(mm)	Y(mm)	Z(mm)
5G MIMO WLAN + Bluetooth	-0.006	0.051	-0.211

Postion	Max Mode		Sum 1g SAR	Hybrid SPLSR
			[W/kg]	
	1	2	1+2	
Rear	GSM 1900	5GHz MIMO WLAN + Bluetooth	1.518	No
	UMTS Band 2		1.484	No
	LTE Band 26		1.462	No
	LTE Band 48		1.323	No
	NR Band n5		1.523	No
	NR Band n41		1.317	No
	NR Band n77 DoD		1.398	No

Hybrid Volume Plot

#1 WLAN 5 GHz + Bluetooth



14.5.1 EFS Ver 16. GEN2 Sub 6 Favor mode considerations

Per Qualcomm document 80-W2112-4 Rev. R October 19, 2021, The 2nd generation of Smart Transmit (GEN2) operates based on pre-defined sub6 antenna groups (AG) and mmW module groups (MG). Sub6 Tx antennas in UE are grouped based on spatial variation of RF exposure distributions, where the RF exposure of one AG is mutually exclusive from other AG. This is accomplished by demonstrating either of below conditions for all exposure scenarios

a) Every antenna from one sub6 AG meets SPLSR criteria (Section 4.3.2(c) in FCC KDB 447498 D01) with every antenna of another sub6 AG. This criteria must be demonstrated for all antenna combinations for each pair of AGs.

Or

b) Sum of SAR of one antenna from each of the sub6 AGs and the RF exposure from radios outside Smart Transmit is less than regulatory limits. This condition must be demonstrated for all antenna combinations of sub6 AGs

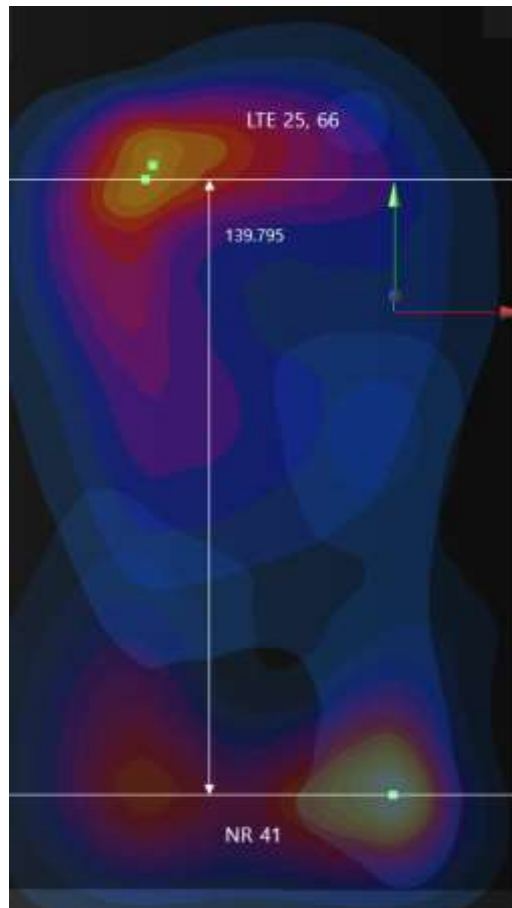
Using SPLSR Criteria for sub6 Antenna Groups

For each of the supported technology/bands per antenna, in addition to the maximum reported SAR, the SAR hotspot location in a coordinate system aligned along with device dimensions (x-axis along width, and y-axis along length) should also be recorded. Since the AGs are along the length of the device (top and bottom), i.e., along Y-axis, only Y coordinate of SAR hotspot location needs to be recorded. X and Z coordinate of SAR hotspot location are ignored (conservative) in this analysis for simplicity of calculations.

SPLSR Evaluation

Mode/Band	X(m)	Y(m)	Z(m)	Reported SAR [W/kg]
LTE B25 Sub #1 Ant.	-0.0505	0.06	-0.21	0.449
LTE B66 Sub #1 Ant.	-0.049	0.063	-0.21	0.448
NR n41	0.0014	-0.0698	-0.209	0.585

Postion	Band		SAR		Sum 1g SAR	1+2 Peak SAR Separation Distance [mm]	SPLSR
					[W/kg]		
	1	2	1	2	1+2		
Rear	LTE 25	NR 41	0.449	0.585	1.034	139.795	0.008
	LTE 66		0.448		1.033		0.008

SPLSR Plot For GEN2 5G sub6 Antenna Group

14.6 Simultaneous Transmission Conclusion

The above numerical summed SAR Results are sufficient to determine that simultaneous transmission cases will not exceed the SAR Limit and therefore measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE1528-2013.

15. SAR Measurement Variability and Uncertainty

In accordance with KDB procedure 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz, SAR additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement variability was assessed using the following procedures for each frequency band:

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg for 1g SAR or < 2.0 W/kg for 10g SAR; steps 2) through 4) do not apply.

2) When the original highest measured 1g SAR is ≥ 0.80 W/kg or 10g SAR ≥ 2.0 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg for 1g SAR or ≥ 3.625 W/kg for 10g SAR ($\sim 10\%$ from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg for 1g SAR or ≥ 3.75 W/kg for 10g SAR and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

Head SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
3560	55340	LTE Band 48	Right Cheek	0.804	0.803	1.00

Body Worn SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
2462	11	2.4 GHz	Rear	0.886	0.872	1.02

Hotspot SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR (W/kg)	Repeated SAR (W/kg)	SAR Ratio
MHz	Channel					
3646.7	56207	LTE Band 48	Left	0.820	0.748	1.10

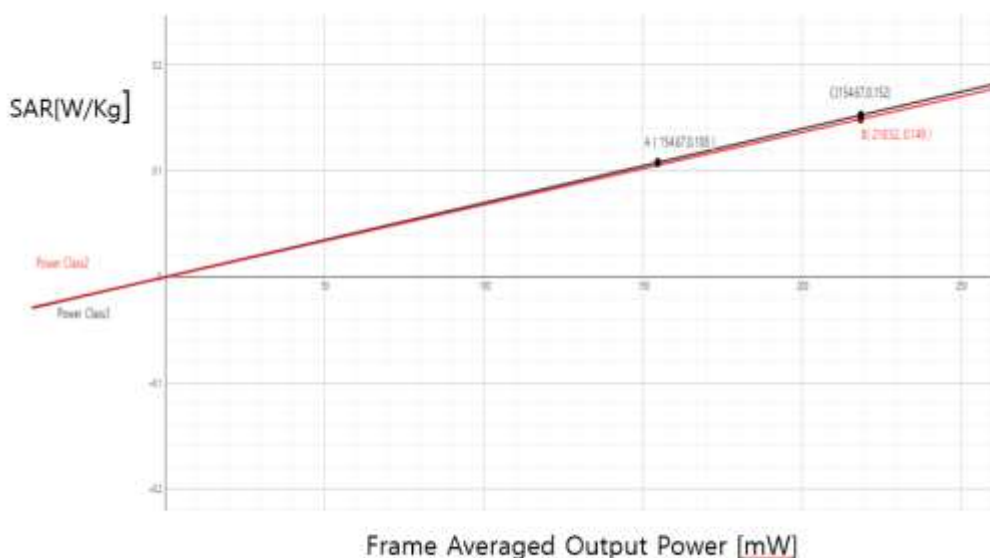
16. LTE Band Power Class 2 and Power class 3 Linearity

This Device Supports Power Class 2 and Power Class 3 operations for LTE band 41. The Highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL Configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power class 3. SAR with power class 2 at the highest power and available duty factor was additionally performed for the power class 2 configuration with the Highest SAR for each exposure condition.

The linearity between the power class 3 and Power class 2 SAR Results and the respective frame averaged powers was calculated to determine the results were linear.

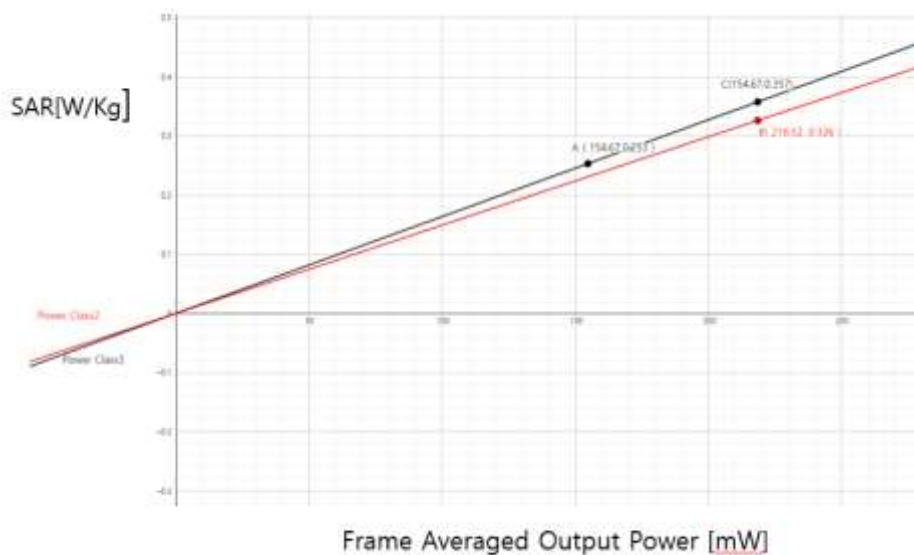
Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes as less than 10 % and all reported SAR values were < 1.4 W/kg

LTE Band 41 Head Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	25	28
Measured Output Power[dBm]	23.88	27.03
Measured SAR[W/kg]	0.108	0.149
Measured Power[mW]	244.34	504.66
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	154.67	218.52
	0.000698261	0.00068186
		1.024053375
% deviation from expected linearity		2.41

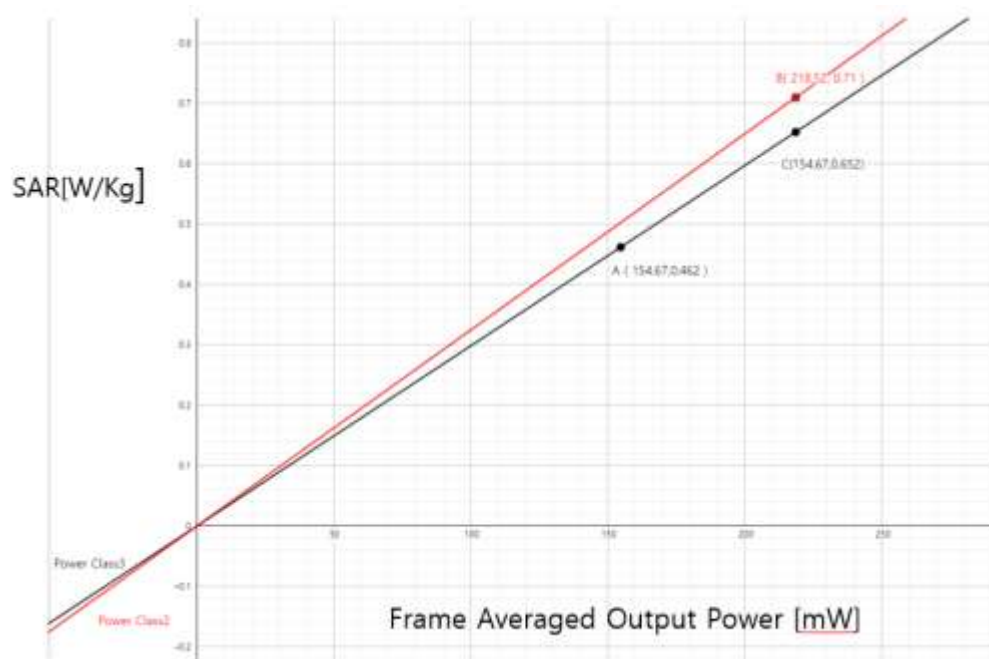


LTE Band 41 BodyWorn Linearity Data Table

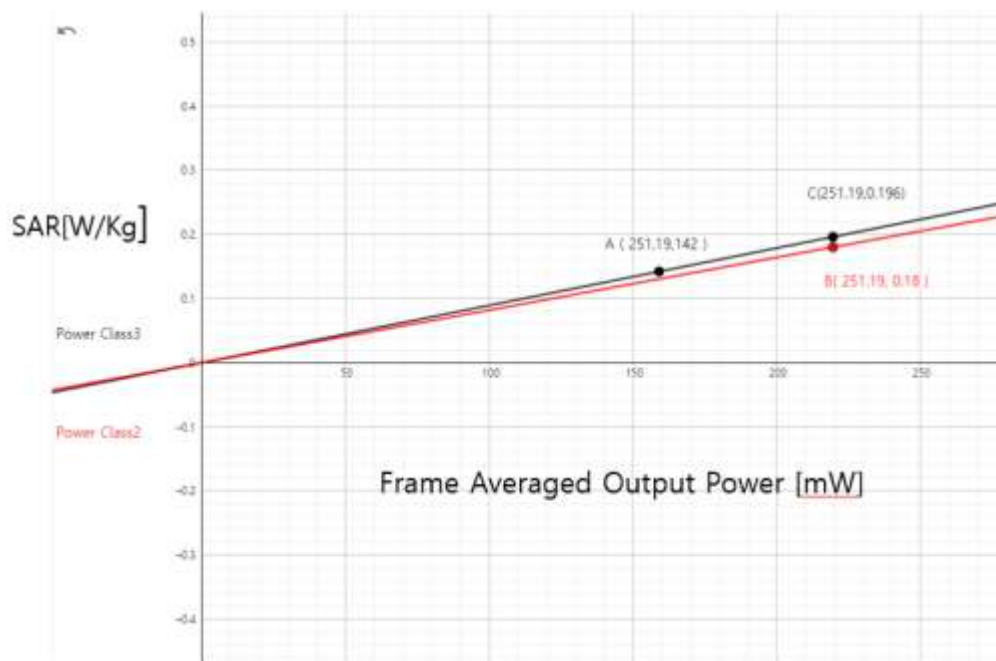
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	25	28
Measured Output Power[dBm]	23.88	27.03
Measured SAR[W/kg]	0.253	0.326
Measured Power[mW]	244.34	504.66
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	154.67	218.52
	0.001635741	0.001491854
		1.096447969
% deviation from expected linearity		9.64



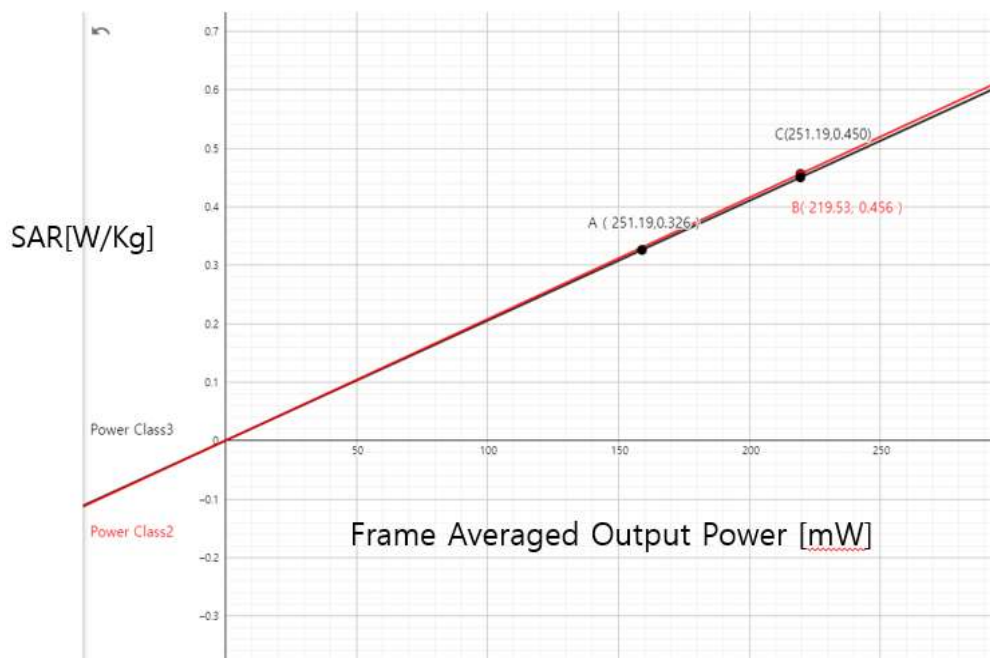
LTE Band 41 Body Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	25	28
Measured Output Power[dBm]	23.88	27.03
Measured SAR[W/kg]	0.462	0.71
Measured Power[mW]	244.34	504.66
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	154.67	218.52
	0.002987005	0.003249131
		0.919324286
% deviation from expected linearity		-8.07



LTE Band 41 Head ULCA Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	25	28
Measured Output Power[dBm]	24	27.05
Measured SAR[W/kg]	0.142	0.18
Measured Power[mW]	251.19	506.99
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	159	219.53
	0.000893082	0.000819933
		1.089212439
% deviation from expected linearity		8.92



LTE Band 41 BodyWorn ULCA Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	25	28
Measured Output Power[dBm]	24	27.05
Measured SAR[W/kg]	0.326	0.456
Measured Power[mW]	251.19	506.99
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	159	219.53
	0.002050314	0.002077165
		0.987073541
% deviation from expected linearity		-1.29



LTE Band 41 Body ULCA Linearity Data Table		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	25	28
Measured Output Power[dBm]	24	27.05
Measured SAR[W/kg]	0.518	0.725
Measured Power[mW]	251.19	506.99
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	159	219.53
	0.003257862	0.00330251
		0.986480503
% deviation from expected linearity		-1.35



17. Measurement Uncertainty

The measured SAR was <1.5 W/kg for 1g SAR and <3.75 W/kg For 10g SAR for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE1528-2013 was not required.

18. SAR Test Equipment

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	SAM Phantom	-	N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F12/ 5K9GA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/ 59CHA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/ 59RAA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/ 5R4XF1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX60	F08/5AJ0A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F/20/0018446/C/001	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/ 5SD0A1/ C/ 01	N/A	N/A	N/A
Staubli	CS9spe-TX2-60	F/21/0029002/C/001	N/A	N/A	N/A
Staubli	TX90 XLspeag	F12/ 5K9GA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/ 59CHA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/ 59RAA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F13/ 5R4XF1/ A/ 01	N/A	N/A	N/A
Staubli	TX60 Lspeag	F08/5AJ0A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F/20/0018446/A/001	N/A	N/A	N/A
Staubli	TX90 XLspeag	F13/ 5SD0A1/ A/ 01	N/A	N/A	N/A
Staubli	TX2-60 Lspe	F/21/0029002/A/001	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1206 0513	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	010963	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	011578	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1338 1332	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0008	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	020885	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	001729	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21144507C	N/A	N/A	N/A
TESTO	175-H1/Thermometer	40331939309	01/04/2022	Annual	01/04/2023
TESTO	175-H1/Thermometer	40331915309	01/04/2022	Annual	01/04/2023
TESTO	175-H1/Thermometer	40331922309	01/04/2022	Annual	01/04/2023
TESTO	175-H1/Thermometer	40332651310	01/04/2022	Annual	01/04/2023
TESTO	175-H1/Thermometer	40331949309	01/04/2022	Annual	01/04/2023
TESTO	175-H1/Thermometer	44606559906	01/04/2022	Annual	01/04/2023
TESTO	608-H1/Thermometer	83348029	05/06/2021	Annual	05/06/2022
TESTO	608-H1/Thermometer	83348029	04/29/2022	Annual	04/29/2023
TESTO	608-H1/Thermometer	83239085	11/15/2021	Annual	11/15/2022
SPEAG	DAE4	1686	06/21/2021	Annual	06/21/2022
SPEAG	DAE4	648	06/02/2021	Annual	06/02/2022
SPEAG	DAE4	446	09/30/2021	Annual	09/30/2022
SPEAG	DAE4	1422	05/19/2021	Annual	05/19/2022
SPEAG	DAE4	466	04/23/2021	Annual	04/23/2022
SPEAG	DAE4	868	09/27/2021	Annual	09/27/2022
SPEAG	DAE4	1629	07/26/2021	Annual	07/26/2022
SPEAG	DAE4	1687	06/21/2021	Annual	06/21/2022
SPEAG	E-Field Probe EX3DV4	7681	12/14/2021	Annual	12/14/2022
SPEAG	E-Field Probe EX3DV4	3972	05/21/2021	Annual	05/21/2022
SPEAG	E-Field Probe EX3DV4	7309	04/20/2021	Annual	04/20/2022
SPEAG	E-Field Probe EX3DV4	7655	05/21/2021	Annual	05/21/2022
SPEAG	E-Field Probe EX3DV4	7702	01/20/2022	Annual	01/20/2023
SPEAG	E-Field Probe EX3DV4	7654	05/21/2021	Annual	05/21/2022
SPEAG	E-Field Probe EX3DV4	7679	09/10/2021	Annual	09/10/2022
SPEAG	E-Field Probe EX3DV4	7370	08/26/2021	Annual	08/26/2022
SPEAG	Dipole D750V3	1014	06/01/2021	Annual	06/01/2022
SPEAG	Dipole D835V2	4d165	08/03/2021	Annual	08/03/2022
SPEAG	Dipole D1800V2	2d015	07/30/2021	Annual	07/30/2022
SPEAG	Dipole D1900V2	5d032	01/28/2022	Annual	01/28/2023
SPEAG	Dipole D2300V2	1010	08/17/2021	Annual	08/17/2022
SPEAG	Dipole D2450V2	965	06/15/2021	Annual	06/15/2022

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	Dipole D2600V2	1106	07/30/2021	Annual	07/30/2022
SPEAG	Dipole D3500V2	1132	01/24/2022	Annual	01/24/2023
SPEAG	Dipole D3700V2	1105	11/22/2021	Annual	11/22/2022
SPEAG	Dipole D3900V2	1019	06/09/2021	Annual	06/09/2022
SPEAG	Dipole D5GHzV2	1107	07/22/2021	Annual	07/22/2022
Agilent	Power Meter E4419B	MY41291386	10/06/2021	Annual	10/06/2022
Agilent	Power Meter N1911A	MY45101406	07/08/2021	Annual	07/08/2022
Agilent	Power Sensor 8481A	SG1091286	10/06/2021	Annual	10/06/2022
Agilent	Power Sensor 8481A	MY41090675	10/06/2021	Annual	10/06/2022
Agilent	Power Sensor N1921A	MY55220026	08/05/2021	Annual	08/05/2022
SPEAG	DAKS 3.5	1031	04/21/2021	Annual	04/21/2022
SPEAG	DAKS 3.5	1038	03/28/2022	Annual	03/28/2023
SPEAG	DAKS VNA R140	0141013	04/07/2021	Annual	04/07/2022
SPEAG	DAKS VNA R140	0141013	03/25/2022	Annual	03/25/2023
R&S	Wireless Communication Test Set CMW500	115733	04/15/2021	Annual	04/15/2022
R&S	Wireless Communication Test Set CMW500	115733	04/14/2022	Annual	04/14/2023
Agilent	11636B/Power Divider	58698	02/24/2022	Annual	02/24/2023
OSI	Power Divider	#1	06/24/2021	Annual	06/24/2022
OSI	Power Divider	#2	06/24/2021	Annual	06/24/2022
OSI	Power Divider	#3	06/24/2021	Annual	06/24/2022
OSI	Power Divider	#4	06/24/2021	Annual	06/24/2022
OSI	Power Divider	#5	06/24/2021	Annual	06/24/2022
Agilent	SIGNAL GENERATOR E4438C	MY49071736	01/03/2022	Annual	01/03/2023
Agilent	SIGNAL GENERATOR N5182A	MY47070230	05/10/2021	Annual	05/10/2022
Agilent	SIGNAL GENERATOR N5182A	MY47070230	04/28/2022	Annual	04/28/2023
EMPOWER	RF Power Amplifier	1084	06/25/2021	Annual	06/25/2022
EMPOWER	RF Power Amplifier	1011	10/06/2021	Annual	10/06/2022
MICRO LAB	LP Filter / LA-15N	10453	10/06/2021	Annual	10/06/2022
MICRO LAB	LP Filter / LA-30N	-	10/06/2021	Annual	10/06/2022
MICRO LAB	LP Filter / LA-60N	32011	10/06/2021	Annual	10/06/2022
HP	Attenuator (3dB) 333340A	02427	09/06/2021	Annual	09/06/2022
HP	Attenuator (20dB) 8493C	09271	09/06/2021	Annual	09/17/2022
Aeroflex/Weinschel	Fixed Coaxial Attenuator (30 dB)	CE6106	11/11/2021	Annual	11/11/2022
Agilent	Directional Bridge 86205A	3140A03878	05/28/2021	Annual	05/28/2022
Agilent	MXA Signal Analyzer N9020A	MY50510407	10/20/2021	Annual	10/20/2022
Anritsu	Radio Communication Tester MT8820C	6200695605	04/15/2021	Annual	04/15/2022
Anritsu	Radio Communication Tester MT8820C	6200695605	04/15/2022	Annual	04/15/2023
Anritsu	Radio Communication Tester MT8821C	6201502997	07/08/2021	Annual	07/08/2022
Anritsu	Radio Communication Tester MT8821C	6262044720	12/20/2021	Annual	12/20/2022
Anritsu	Radio Communication Tester MT8821C	6262287674	05/25/2021	Annual	05/25/2022
Anritsu	Radio Communication Tester MT8821C	6262287678	05/25/2021	Annual	05/25/2022
Anritsu	Radio Communication Test Station MT8000A	6262036812	12/20/2021	Annual	12/20/2022
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	07/23/2021	Annual	07/23/2022
ROHDE&SCHWARZ	BLUETOOTH TESTER CBT	100272	02/28/2022	Annual	02/28/2023

* The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Verification measurement is performed by HCT Lab. before each test. The brain/body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity (dielectric constant) of the brain/body-equivalent material.

19. Conclusion

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the ANSI/ IEEE C95.1 - 2005.

These measurements were taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

20. References

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[21] IEC 62209-2, Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz) Mar. 2010.

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[25] SAR Measurement Guidance for IEEE 802.11 transmitters, KDB 248227 D01v02r02

[26] SAR Evaluation of Handsets with Multiple Transmitters and Antennas KDB 648474 D03, D04.

[27] SAR Evaluation for Laptop, Notebook, Netbook and Tablet computers KDB 616217 D04.

[28] SAR Measurement and Reporting Requirements for 100 MHz – 6 GHz, KDB 865664 D01, D02.

[29] FCC General RF Exposure Guidance and SAR procedures for Dongles, KDB 447498 D01,D02.

Appendix A. DUT Ant. Information & SETUP PHOTO

Please refer to test DUT Ant. Information & setup photo file no. as follows:

Report No.
HCT-SR-2204-FC002-P