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SAR TEST REPORT

Applicant Name: **SAMSUNG Electronics Co., Ltd.** 129, Samsung-ro, Yeongtong-gu, Suwon-Si, Gyeonggi-do, 16677 Rep. of Korea	**Date of Issue:** Feb. 03, 2022 **Test Report No.: HCT-SR-2201-FC012-R2** **Test Site: HCT CO., LTD.**

FCC ID: A3LSMA536U

Equipment Type:	**Mobile Phone**
Application Type	**Certification**
FCC Rule Part(s):	**CFR §2.1093**
Model Name:	**SM-A536U**
Additional Model Name:	**SM-A536U1/DS, SM-S536DL, SM-A536W**
Date of Test:	**Dec. 01, 2021 ~ Jan. 21, 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

Jin-Young, Choi
Test Engineer
SAR Team
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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	Jan. 21, 2022	Initial Release
1	Jan. 25, 2022	Revised LTE B40 and Page 333
2	Feb.03,2022	Revised Page 21,47 and 333

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

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Appendix A. DUT Ant. Information & Test SETUP PHOTO
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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

Company Name	HCT Co., Ltd.
Address	74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si,Gyeonggi-do, 17383 KOREA
Telephone	031-645-6300
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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	SMA536U
Additional Model Name	SM-A536U1/DS, SM-S536DL, SM-A536W
Equipment Type	Mobile Phone
FCC ID	A3LSMA536U
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	0.23	0.30	0.64	N/A
GSM/GPRS/EDGE 1900	1 850.2 MHz ~ 1 909.8 MHz	PCE	<0.10	0.30	0.26	N/A
UMTS Band 5	826.4 MHz ~ 846.6 MHz	PCE	0.23	0.36	0.65	N/A
UMTS Band 4	1 712.4 MHz ~ 1 752.6 MHz	PCE	0.11	0.39	0.27	N/A
UMTS Band 2	1 852.4 MHz ~ 1 907.6 MHz	PCE	0.11	**0.80**	**1.11**	**2.71**
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	0.21	0.25	0.42	N/A
LTE Band 12	699.7 MHz ~ 715.3 MHz	PCE	0.19	0.32	0.45	N/A
LTE Band 13	779.5 MHz ~ 784.5 MHz	PCE	0.30	0.43	0.72	N/A
LTE Band 14	790.5 MHz ~ 795.5 MHz	PCE	0.32	0.44	0.73	N/A
LTE Band 25(PCS)	1 850.7 MHz ~ 1 914.3 MHz	PCE	<0.10	0.65	0.73	1.90
LTE Band 26(Cell)	814.7 MHz ~ 848.3 MHz	PCE	0.20	0.31	0.59	N/A
LTE Band 30	2 307.5 MHz ~ 2 312.5 MHz	PCE	0.12	0.26	0.51	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	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	0.19	0.23	0.29	N/A
LTE TDD Band 48	3 552.5 MHz ~ 3 697.5 MHz	PCE	0.70	0.29	0.41	N/A
LTE Band 66 (AWS)	1 710.7 MHz ~ 1 779.3 MHz	PCE	<0.10	0.44	0.76	1.80
LTE Band 71	665.5 MHz ~ 695.5 MHz	PCE	0.17	0.29	0.41	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	0.13	0.20	0.42	N/A
NR Band n12	701.5 MHz ~ 713.5 MHz	PCE	<0.10	0.13	<0.10	N/A
NR Band n25	1 852.5 MHz ~ 1 912.5 MHz	PCE	0.14	0.65	0.76	N/A
NR Band n30	2 307.5 MHz ~ 2 312.5 MHz	PCE	0.32	0.46	0.27	N/A
NR Band n41 (Lower Ant.)	2 506.02 MHz ~ 2 679.99 MHz	PCE	0.18	0.16	0.57	0.96
NR Band n41 (Upper Ant.)	2 506.02 MHz ~ 2 679.99 MHz	PCE	0.70	<0.10	0.29	N/A
NR Band n66	1 712.5 MHz ~ 1 777.5 MHz	PCE	0.11	0.67	0.69	1.40
NR Band n71	665.5 MHz ~ 695.5 MHz	PCE	0.19	0.23	0.28	N/A
NR Band n77 (Upper)	3 705 MHz ~ 3 975 MHz	PCE	**0.75**	<0.10	0.35	1.24
NR Band 77(DoD) (Upper)	3 455.04 MHz ~ 3 544.98 MHz	PCE	0.61	0.11	0.20	1.22
802.11b	2 412 MHz ~ 2 472 MHz	DTS	**0.38**	**0.21**	**0.52**	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	**0.15**	**0.29**	N/A	**0.94**
U-NII-2C	5 500 MHz ~ 5 720 MHz	NII	<0.10	0.15	N/A	0.44
U-NII-3	5 745 MHz ~ 5 825 MHz	NII	<0.10	<0.10	**0.32**	N/A
Bluetooth	2 402 MHz ~ 2 480 MHz	DSS	0.12	0.13	0.35	N/A
Simultaneous SAR per KDB 690783 D01v01r03			**1.443**	**1.526**	**1.580**	**2.818**
Date(s) of Tests:	Dec. 01, 2021 ~ Jan. 21, 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 Lower	Voice / Data	2 305.0 MHz ~ 2 315.0 MHz
LTE TDD Band 40 Upper	Voice / Data	2 350.0 MHz ~ 2 360.0 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 ~ 3697.5 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
2.4 GHz WLAN	Voice / Data	2 412 MHz ~ 2 472 MHz
Bluetooth / LE 5.1	Data	2 402 MHz ~ 2 480 MHz
NFC	Data	13.56 MHz

	Mode	Serial Number
Device Serial Numbers	GSM850,GSM1900, WCDMA 2, WCDMA 4, WCDMA 5 LTE Band 12, LTE Band 13, LTE Band 14, LTE Band 26, LTE Band 71, NR n5, NR n12, NR n71	ULH1341M
	LTE Band 41, LTE Band 40, LTE Band 30, LTE Band 48 NR n66, NR n25, NR n30, NR n41, NR n77	ULS0444M VAA0309M
	Bluetooth, 2.4G WLAN, 5GHz WLAN	ULH1298M
	The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics are within operational tolerances expected for production units.	

4.4 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 Maximum PCE Output Power

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

a. GSM/GPRS/EDGE

Mode/Band	Antenna	Power	Voice (dBm)	Burst Average GMSK (dBm)				Burst Average 8-PSK (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/EDGE850	Main 1	Target Power	32.5	32.5	29.5	28	26.5	26.5	24	22.5	20.5
GSM/GPRS/ EDGE1900	Main 1	Target Power	29.5	29.5	27	25.5	24.5	26	23.5	22	20.5
		Hotspot Mode	26.5	26.5	24	22.5	21.5	22.5	20.5	19	18
		Earjack Mode	26.5	26.5	24	22.5	21.5	22.5	20.5	19	18
		Grip Sensor Mode	26.5	26.5	24	22.5	21.5	22.5	20.5	19	18

Tolerance: -1.5 dB ~ +1.0 dB

b. WCDMA/HSDPA/HSUPA/HSPA+

Mode/Band	Antenna	Power Mode	Modulated Average (in dBm)			
			3GPP RMC	*HSDPA*	*HSUPA*	*DC-HSDPA*
			Rel 99	3GPP REV.5	3GPP REV.6	3GPP REV.8
WCDMA 1900(B2)	Main 1	Target Power	24	24	21	23.5
		Hotspot Mode	21	21	20.5	21
		Earjack Mode	21	21	20.5	21
		Grip Sensor Mode	21	21	20.5	21
WCDMA 1700(B4)	Main 1	Target Power	24	23.5	21	22
		Hotspot Mode	21	21	20	21
		Earjack Mode	21	21	20	21
		Grip Sensor Mode	21	21	20	21
WCDMA 850(B5)	Main 1	Target Power	24	24	21	23

Tolerance: -1.5 dB ~ +1.0 dB

c. LTE

LTE Band	Antenna	Modulated Average (in dBm)				
		Target Power	RCV-ON Mode	Hotspot Mode	Grip-ON	Ear Jack active
LTE Band 2	Main 1	23.5		19	19	19
LTE Band 4	Main 1	23.3		18.8	18.8	18.8
LTE Band 5	Main 1	23.7				
LTE Band 7	Main 1	23		20	20	20
LTE Band 12	Main 1	24				
LTE Band 13	Main 1	24				
LTE Band 14	Main 1	24				
LTE Band 25	Main 1	23.5		19	19	19
LTE Band 26	Main 1	23.7				
LTE Band 30	Main 2	23		16	16	16
LTE Band 38	Main 2	23		20	20	20
LTE Band 40	Main 2	8				
LTE Band 41	Main 2	23		20	20	20
LTE Band 41 (HPUE)	Main 2	25.3		20	20	20
LTE Band 48	Sub 3	21	18.5	18.5		18.5
LTE Band 66	Main 1	23.3		18.8	18.8	18.8
LTE Band 71	Main 1	24				

Tolerance: -1.5 dB ~ +1.0 dB

d. NR FDD

NR FDD Band	Antenna	Modulated Average (in dBm)				
		Target Power	RCV-ON Mode	Hotspot Mode	Grip-ON	Ear Jack active
NR n2	Main 1	23		19.5	19.5	19.5
NR n5	Main 1	23.5				
NR n12	Main 1	23.5				
NR n25	Main 1	23		19.5	19.5	19.5
NR n30	Main 2	23		16	16	16
NR n66	Main 1	23		19	19	19
NR n71	Main 1	24				

Tolerance: -1.5 dB ~ +1.0 dB

e. NR TDD

NR TDD Band	Antenna	Modulated Average (in dBm)	Modulated Average (in dBm)				
			Output Power level of Duty 100% applied to SAR measurement in NR TDD Bands as FTM				
		Target Power	Head RCV-ON Mode	Hotspot Mode	Grip-ON	Ear Jack active	Body worn Grip sensor OFF
NR n41(PC3)	Sub 2	24	19.5	19.5	19.5	19.5	19.5
NR n41PC3)	Main 2	24	19.5	19.5	19.5	19.5	19.5
NR n41(PC2) SA	Main 2	25.5	19.5	19.5	19.5	19.5	19.5
NR n77(PC3(SRS #A)	Sub 3	24	17	17	17	17	17
NR n77 PC3 (SRS #B)	Sub 5	20.5	10	10	10	10	10
NR n77 PC3 (SRS #C)	Main 2	20	10	10	10	10	10
NR n77 PC3 (SRS #D)	Sub 8	18.5	10	10	10	10	10
NR n77PC2 (SRS #A)	Sub 3	25.5	17	17	17	17	17
NR n77 PC2 (SRS #B)	Sub 5	22	10	10	10	10	10
NR n77 PC2 (SRS #C)	Main 2	21	10	10	10	10	10
NR n77 PC2 (SRS #D)	Sub 8	20.5	10	10	10	10	10

Tolerance: -1.5 dB ~ +1.0 dB

In order to satisfy the limitations of the duty factor of the 5G NR TDD band, these were tested as n41 band 19.5 dBm and n77 band 17 dBm to which duty factor 100% were applied to all SAR test configurations (Head/Body worn/Hotspot/Phablet SAR) in FTM mode.

4.4.2 Maximum 2.4 GHz, 5 GHz WIFI output power

Maximum WLAN Power

Mode	Band	SISO				
		a	b	g	n	ac
2.4GHz (1-11ch)	2.45GHz		20 Ch.12, 13 : 7	19 Ch.11 :18 Ch.12 : 7 CH.13 : 6	19 Ch.11 :17 Ch.12,13 : 5	
5 GHz (20MHz)	5200MHz	18			18	17
	5300MHz	18			18	17
	5500MHz	18 Ch.100 : 15			18 Ch.100 : 14	17 Ch.100 : 14
	5800MHz	18			18	17
5 GHz (40MHz)	5200MHz				17 Ch.38 : 14	17 Ch.38 : 14
	5300MHz				17 Ch.62 : 14	17 Ch.62 : 14
	5500MHz				17 Ch.102 : 14	17 Ch.102 : 14
	5800MHz				17	17
5 GHz (80MHz)	5210MHz					13
	5290MHz					13
	5500MHz					13 Ch.106 : 12
	5800MHz					13

(Upper Tolerance: target -1.5dB ~ +1.0 dB)

Reduced WLAN Power – RCV ON

Mode	Band	SISO				
		a	b	g	n	ac
2.4GHz	2.45GHz		12	12	12	
5 GHz (20MHz)	5200MHz	10			10	10
	5300MHz	10			10	10
	5500MHz	10			10	10
	5800MHz	10			10	10
5 GHz (40MHz)	5200MHz				10	10
	5300MHz				10	10
	5500MHz				10	10
	5800MHz				10	10
5 GHz (80MHz)	5200MHz					10
	5300MHz					10
	5500MHz					10
	5800MHz					10

(Upper Tolerance: target -1.5dB ~ +1.0 dB)

4.4.3 Maximum Bluetooth Power

Maximum Bluetooth Power

Mode / Band			Modulated Average (dBm)
Bluetooth	1Mbps	Maximum	17
		Nominal	16
	EDR	Maximum	13
		Nominal	12
Bluetooth LE	2M Mbps	Maximum	15
		Nominal	14
	1Mbps, 125/500Kbps	Maximum	15
		Nominal	14

Reduced Bluetooth Power – RCV ON

Mode / Band			Modulated Average (dBm)
Bluetooth	1Mbps	Maximum	9
		Nominal	8
	EDR	Maximum	4
		Nominal	3
Bluetooth LE	2M Mbps	Maximum	6
		Nominal	5
	1Mbps, 125/500Kbps	Maximum	6
		Nominal	5

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
	NR Band n30	5 MHz, 10 MHz
	NR Band n41	10 MHz,15 MHz, 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
	NR Band n71	5 MHz, 10 MHz, 15 MHz, 20 MHz
	NR Band n77	10 MHz,15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz
	NR Band n77 (DoD)	10 MHz,15 MHz, 20 MHz, 25 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 Lower band	5 MHz	2 307.5 (38675)	2310(38750)	2312.5(38775)
	10 MHz		2310(38750)	
LTE TDD Band 40 Upper Band	5 MHz	2352.5(39175)	2355(39200)	2357.5(39225)
	10 MHz		2355(39200)	

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)
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)
NR Band n41	10 MHz	2501.01 (500202)	2547 (509400)	2592.99 (518598)	2639.01 (527802)	2685 (537000)
	15 MHz	2503.5 (500700)	2548.32 (509664)	2592.99 (518598)	2637.81 (527562)	2682.48 (536496)
	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	10 MHz	3705 (647000)	3759 (650600)	3813 (654200)	3867 (657800)	3921 (661400)	3975 (665000)
	15 MHz	3707.52(647168)	3760.5(650700)	3813.49(654232)	3866.5(657766)	3919.5(661300)	3972.48(664832)
	20 MHz	3710.01(647334)	3762 (650800)	3813.99(654266)	3866.01 (657734)	3918 (661200)	3969.99 (664666)
	25 MHz	3712.5 (647500)	3763.5 (650900)	3814.5 (654300)	3865.5 (657700)	3916.5 (661100)	3967.5 (664500)
	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 (DoD)	10 MHz	3455.04 (630336)		3500.01 (633334)		3544.98 (630332)	
	15 MHz	3457.53 (630502)		3500.01 (633334)		3542.49 (636166)	
	20 MHz	3460.02 (630668)		3500.01 (633334)		3540 (636000)	
	25 MHz	3462.51 (630834)		3500.01 (633334)		3537.51(635834)	
	30 MHz	3465 (631000)		3500.01 (633334)		3534.99 (635666)	
	40 MHz	3470.01 (631334)				3529.98 (635332)	
	50 MHz	3475.02 (631668)				3525 (635000)	
	60 MHz			3500.01 (633334)			
	70 MHz			3500.01 (633334)			
	80 MHz			3500.01 (633334)			
	90 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
3GPP Rel.	Rel.16
A-MPR disabled for SAR Testing.	Yes
5G NR UL/DL FR1	CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM DFT-s-OFDM: π/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.	
EN-DC Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation cc binations

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 #1	Yes	Yes	Yes	Yes	Yes	No
UMTS Band 5	Main #1	Yes	Yes	Yes	Yes	Yes	No
UMTS Band 4	Main #1	Yes	Yes	Yes	Yes	Yes	No
UMTS Band 2	Main #1	Yes	Yes	Yes	Yes	Yes	No
LTE Band 2 (PCS)	Main #1	Yes	Yes	Yes	Yes	Yes	No
LTE Band 4 (AWS)	Main #1	Yes	Yes	Yes	Yes	Yes	No
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 #1	Yes	Yes	Yes	Yes	Yes	No
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 #1	Yes	Yes	Yes	Yes	Yes	No
LTE Band 71	Main #1	Yes	Yes	Yes	Yes	Yes	No
NR Band n2	Main #1	Yes	Yes	Yes	Yes	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 #1	Yes	Yes	Yes	Yes	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 n41	Sub #2	Yes	Yes	Yes	No	No	Yes
NR Band n66	Main #1	Yes	Yes	Yes	Yes	Yes	No
NR Band n71	Main #1	Yes	Yes	Yes	Yes	Yes	No
NR Band n77	Sub #3	Yes	Yes	Yes	No	No	Yes
2.4 GHz WLAN	Sub #2	Yes	Yes	Yes	No	No	Yes
5 GHz WLAN	Sub #3	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

Simultaneous Transmission Scenarios				
Applicable Combination	Head	Body-Worn	Hotspot	Extremity
GSM Voice + 2.4 GHz WiFi	Yes	Yes	N/A	Yes
GSM Voice + 5 GHz WiFi	Yes	Yes	N/A	Yes
GSM Voice + Bluetooth	Yes^	Yes	N/A	Yes
GSM Voice + 5 GHz WiFi + Bluetooth	Yes^	Yes	N/A	Yes
GSMGPRS/EDGE + 2.4 GHz WiFi	Yes*	Yes	Yes	Yes
GSMGPRS/EDGE + 5 GHz WiFi	Yes*	Yes	Yes	Yes
GSMGPRS/EDGE + Bluetooth	Yes*^	Yes	Yes^	Yes
GSMGPRS/EDGE + 5 GHz WiFi + Bluetooth	Yes*^	Yes	Yes^	Yes
UMTS + 2.4 GHz WiFi	Yes	Yes	Yes	Yes
UMTS + 5 GHz WiFi	Yes	Yes	Yes	Yes
UMTS + Bluetooth	Yes^	Yes	Yes^	Yes
UMTS + 5 GHz WiFi + Bluetooth	Yes^	Yes	Yes^	Yes
LTE + 2.4 GHz WiFi	Yes*	Yes	Yes	Yes
LTE + 5 GHz WiFi	Yes*	Yes	Yes	Yes
LTE+ Bluetooth	Yes^	Yes	Yes^	Yes
LTE + 5 GHz WiFi + Bluetooth	Yes^	Yes	Yes^	Yes
LTE+ 5GNR	Yes	Yes	N/A	Yes
LTE+ 5GNR + 2.4 GHz WiFi	Yes*	Yes	Yes	Yes
LTE+ 5GNR + 5 GHz WiFi	Yes*	Yes	Yes	Yes
LTE+ 5GNR+ Bluetooth	Yes^	Yes	Yes^	Yes
LTE+ 5GNR + 5 GHz WiFi + Bluetooth	Yes^	Yes	Yes^	Yes
5GNR + 2.4 GHz WiFi	Yes*	Yes	Yes	Yes
5GNR + 5 GHz WiFi	Yes*	Yes	Yes	Yes
5GNR+ Bluetooth	Yes*^	Yes	Yes^	Yes
5GNR + 5 GHz WiFi + Bluetooth	Yes*^	Yes	Yes^	Yes

Note:
1. 2.4GHz WLAN and 2.4GHz Bluetooth cannot transmit simultaneously
2. The device does not support licensed bands simultaneously transmitting.
3. UMTS +WLAN scenario also represents the UMTS Voice/DATA + WLAN hotspot scenario.
4. VoIP is supported in GPRS/EDGE.
5. The highest reported SAR for each exposure condition is used for SAR summation purpose.
6. Wi-Fi Hotspot is supported for 2.4 GHz/ UNII-3 of 5 GHz WLAN.
7. This device supports Bluetooth tethering. ^ BluetoothTetheringis considered.
8. * Pre-installed VOIP applications areconsidered.and ^ means that Bluetooth tethering is considered.
9. 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.

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 ㎓ 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 80 ㎒ Bandwidth only for 5 GHz
b) Up to 20 ㎒ Bandwidth only for 2.4 GHz
c) No aggregate channel configurations
d) 1 Tx antenna output
e) TDWR and Band gap channels are supported for 5 GHz

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.

4.8.2Licensed 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 ≤ 0.5dB 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 KDB941225 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 48/41 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 band 19.5 dBm and n77 band 17 dBm 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.

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

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.

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

The Reported SAR for WLAN and Bluetooth

The Reported SAR = The Measured SAR x-$\frac{Maximum\ tune-up\ (mW)}{Measured\ Conducted\ Power(mW)}$ x 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 ㎓. 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 (d*W*) absorbed by (dissipated in) an incremental mass (d*m*) contained in a volume element (d*V*) of a given density (*r*). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body.

$$SAR = \frac{d}{d\ t}\left(\frac{d\ \ U}{d\ m}\right)$$

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/㎥)
= 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.

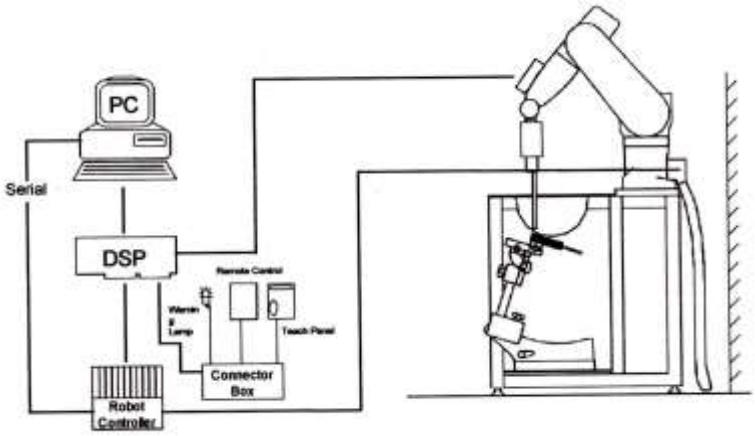


Figure 2. HCT SAR Lab. Test Measurement Set-up

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.

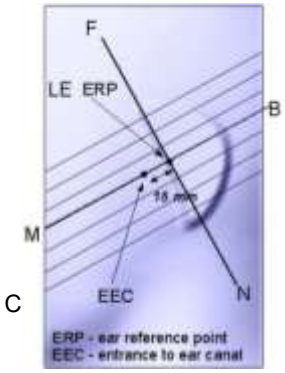
			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	·δ·ln(2)±0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1°	20°±1°
Maximumarea scanSpatial resolution: Δx_{Area}, Δy_{Area}			≤ 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: $\Delta z_{zoom}(n)$		≤ 5 mm	3-4 GHz: ≤4 mm 4-5 GHz: ≤3 mm 5-6 GHz: ≤2 mm
	graded grid	$\Delta z_{zoom}(1)$: between1 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
		$\Delta z_{zoom}(n>1)$:between subsequent Points	$\leq 1.5 \cdot \Delta z_{zoom}(n-1)$	
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 EAR 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 than 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

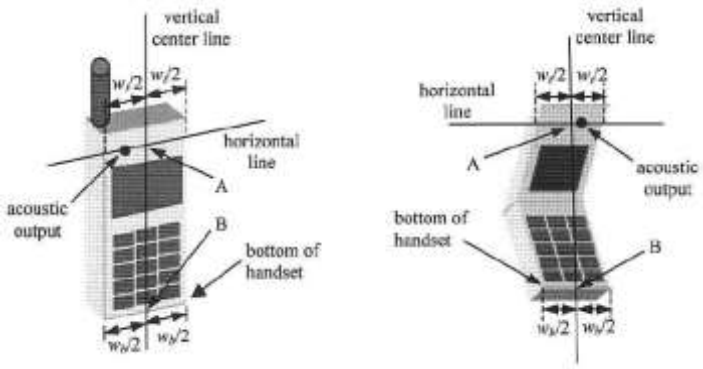


Figure 6-3. Handset vertical and horizontal reference lines

8.3 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameter; relative permittivity ε=3 and loss tangent σ =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.

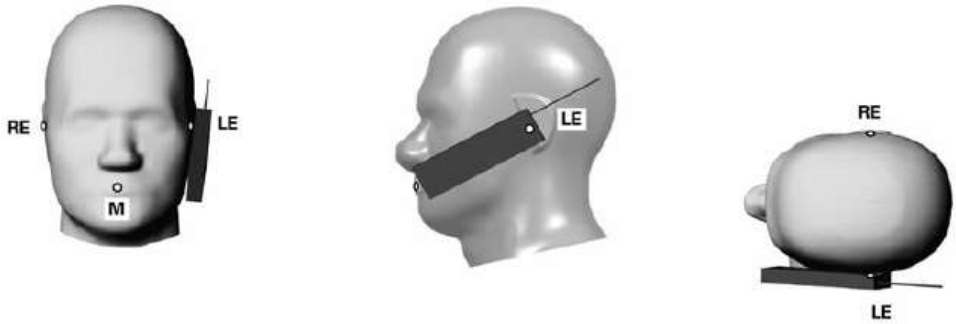


Figure 8.4 Cheek/ Touch position of the wireless device

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≥9cmx5 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-worm 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
GSM1900/ UMTS B2/B4 LTE B2/B4/B7/B25/B30/B38/B66/B41(HPUE) NR n2/n25/n30/n66/n41(HPUE)	Rear	12	N/A	N/A	11
	Front	8	N/A	N/A	7
	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 mad 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 Cheek for power drifts. If conducted Power deviations of more than 5 % occurred, the tests were repeated.

10.4 SAR Measurement Conditions for UMTS

10.4.1 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.

10.4.2 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.

10.4.3 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.

10.4.4 SAR Measurements with Rel. 6 HSUPA

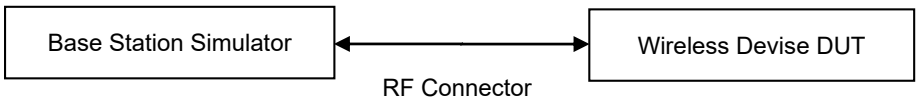
The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control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

10.4.5DC-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.



10.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r05publication. 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).

10.5.1 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.

10.5.2 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.

10.5.3 A-MPR

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

10.5.4 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.

10.5.5 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.

10.5.6 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/48C and the single carrier LTE B41/B48. Both Uplink carrier aggregation and single carrier are operating with Power class 3.
This device support intra-band contiguous UL CA: LTE CA_41C / LTE CA_48C with a maximum of 20 ㎒ 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/B48 and intra-band contiguous up-link LTE CA_41C CA_48C operations.

The measured power results of single carrier LTEB41/B48 and intra-band contiguous up-link LTE CA_41C/ CA_48C 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/B48 is ≤ standalone LTE mode (without CA),
SAR for LTE B41/B48 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

10.5.7 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.

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	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

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

Table 4.2-2: Uplink-downlink configurations.

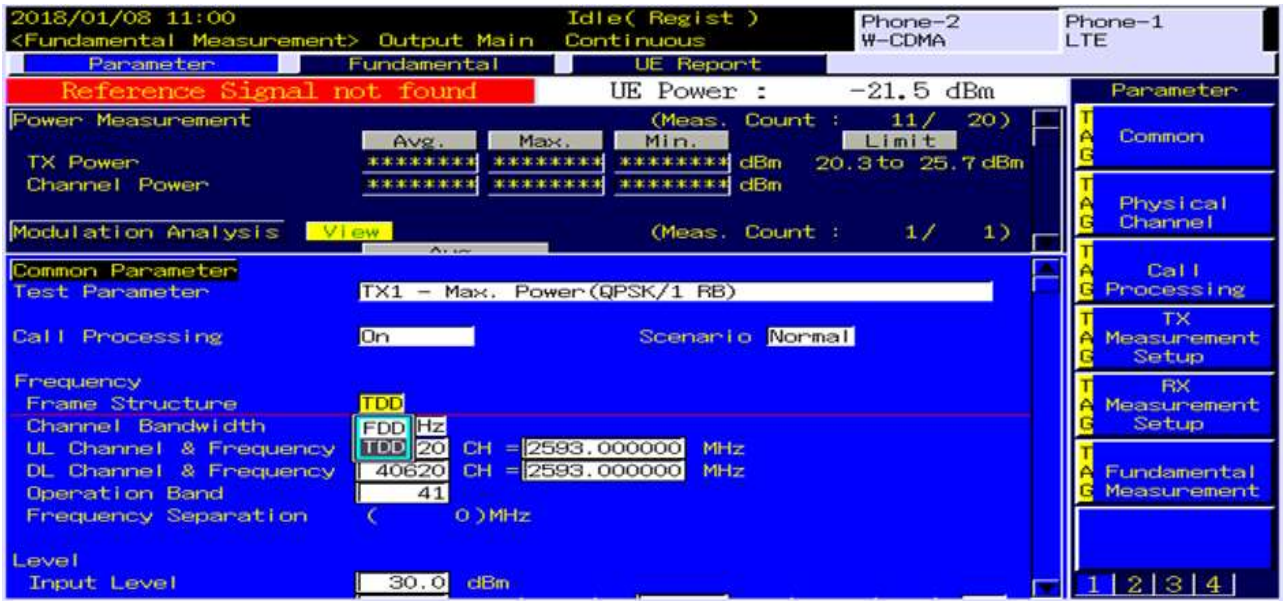
Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U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

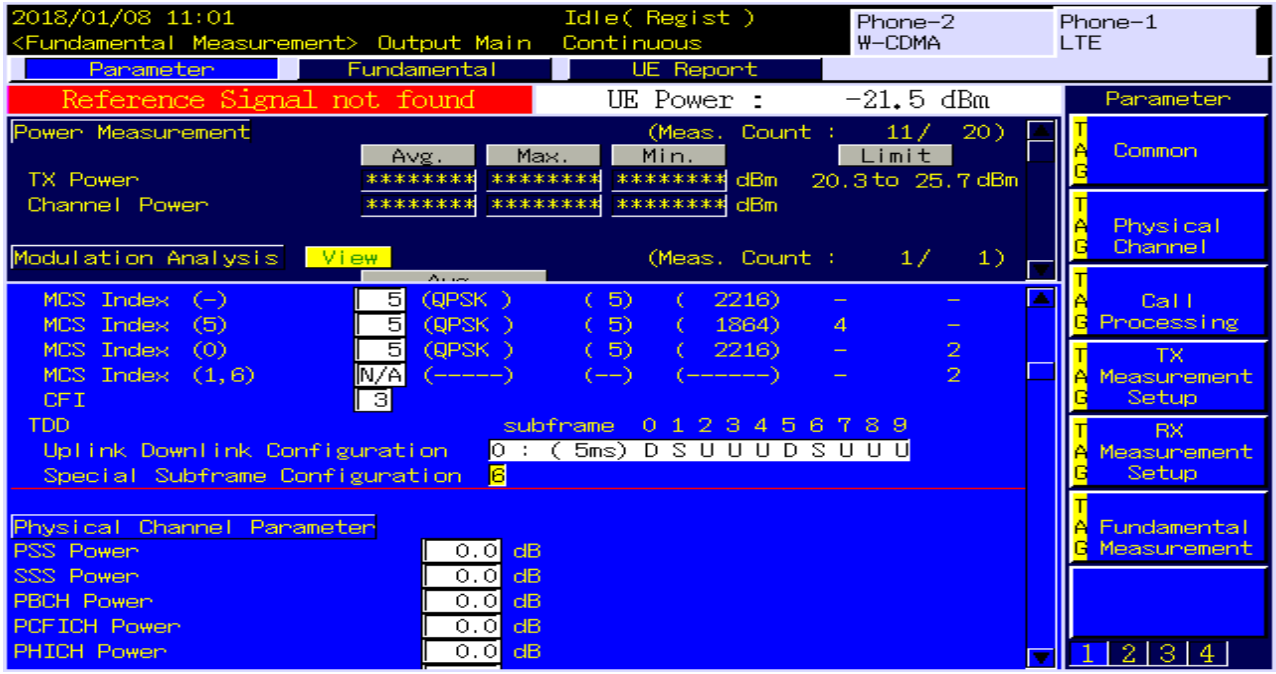
Example for calculated Duty Cycle for Uplink-Downlink Configuration 0:
Calculated Duty Cycle = (5120 x (1/(15000 x 2048)) x 2 + 0.006)/0.01 = 63.33 %
Where
T_s = 1/(15000 x 2048) seconds

HPUE :
Calculated Duty Cycle for Uplink-Downlink Configuration 1:
Calculated Duty Cycle =5120*(1/(15000*2048))*2+0.004)/0.01 = 43.33 %

10.5.6 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.





10.6 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.

10.6.1 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.

10.6.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII2A 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.

10.6.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 ㎒ (5.47 ㎓ – 5.85 ㎓), 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 ㎓ – 5.65 ㎓ 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.

10.6.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating nest 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.

10.6.5 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.

10.6.6 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.2., 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.

10.6.7 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.

10.6.8 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

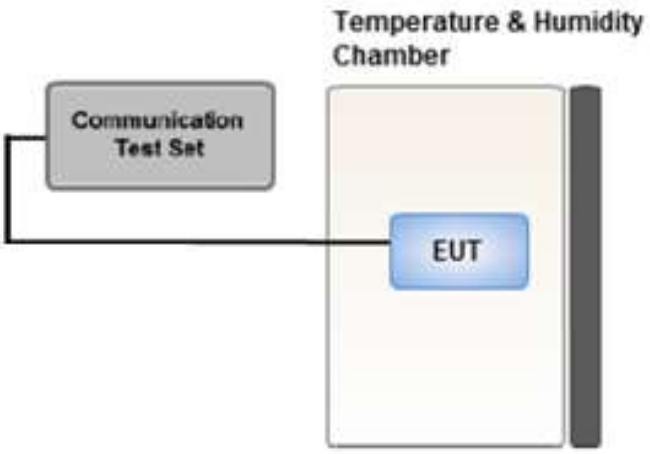
According to ANSI C63.26-2015 Section 5.2.1 when measuring the maximum RF output power from such devices, control over the EUT must be provided either through special test software (provided by manufacturer specifically for compliance testing, but not accessible by an end user) or through use of a base 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

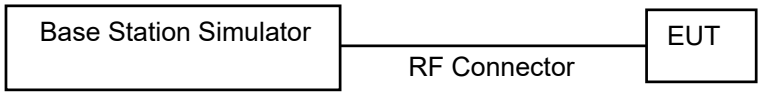
Mode / Band		Voice	GPRS(GMSK) Data – CS1(dBm)				EDGE Data (dBm)			
		GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot	EDGE 1 TX Slot	EDGE 2 TX Slot	EDGE 3 TX Slot	EDGE 4 TX Slot
Maximum		33.5	33.5	30.5	29.0	27.5	27.5	25.0	23.5	21.5
Nominal		32.5	32.5	29.5	28.0	26.5	26.5	24.0	22.5	20.5
GSM 850	128	32.23	32.12	29.87	28.31	26.94	26.44	24.24	22.91	21.48
	190	32.05	32.04	29.76	28.21	26.82	26.33	24.23	22.67	20.02
	251	32.06	32.04	29.74	28.03	26.62	26.01	23.82	22.31	19.70
Maximum		30.5	30.5	28.0	26.5	25.5	27.0	24.5	23.0	21.5
Nominal		29.5	29.5	27.0	25.5	24.5	26.0	23.5	22.0	20.5
GSM 1900	512	30.35	30.34	27.66	25.85	25.17	26.03	24.04	22.68	21.31
	661	30.41	30.40	27.82	26.06	25.13	25.97	24.80	22.67	21.18
	810	30.47	30.46	27.84	25.82	24.78	26.12	24.08	22.57	21.12

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		24.47	24.47	24.48	24.74	24.49	18.47	18.98	19.24	18.49
Nominal		23.47	23.47	23.48	23.74	23.49	17.47	17.98	18.24	17.49
GSM 850	128	23.20	23.09	23.85	24.05	23.93	17.41	18.22	18.65	18.47
	190	23.02	23.01	23.74	23.95	23.81	17.30	18.21	18.41	17.01
	251	23.03	23.01	23.72	23.77	23.61	16.98	17.80	18.05	16.69
Maximum		21.47	21.47	21.98	22.24	22.49	17.97	18.48	18.74	17.99
Nominal		20.47	20.47	20.98	21.24	21.49	16.97	17.48	17.74	17.49
GSM 1900	512	21.32	21.31	21.64	21.59	22.16	17.00	18.02	18.42	18.30
	661	21.38	21.37	21.80	21.80	22.12	16.94	18.78	18.41	18.17
	810	21.44	21.43	21.82	21.56	21.77	17.09	18.06	18.31	18.11

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 activated)

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		27.5	27.5	25.0	23.5	22.5	23.5	21.5	20.0	19.0
Nominal		26.5	26.5	24.0	22.5	21.5	22.5	20.5	19.0	18.0
GSM 1900	512	27.09	27.06	24.94	23.14	22.30	23.32	20.93	19.66	18.25
	661	27.12	27.03	24.50	22.58	21.70	23.15	20.88	19.27	18.03
	810	27.01	26.98	24.62	22.46	21.54	23.09	20.84	19.27	17.81

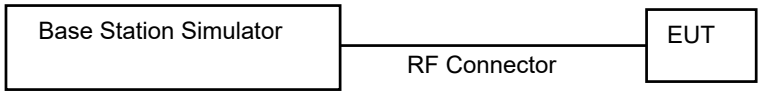
GSM Conducted output powers (Burst-Average)

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		18.47	18.47	18.98	19.24	19.49	14.47	15.48	15.74	15.99
Nominal		17.47	17.47	17.98	18.24	18.49	13.47	14.48	14.74	14.99
GSM 1900	512	18.06	18.03	18.92	18.88	19.29	14.29	14.91	15.40	15.24
	661	18.09	18.00	18.48	18.32	18.69	14.12	14.86	15.01	15.02
	810	17.98	17.95	18.60	18.20	18.53	14.06	14.82	15.01	14.80

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 back and Ear jack Activated)

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		27.5	27.5	25.0	23.5	22.5	23.5	21.5	20.0	19.0
Nominal		26.5	26.5	24.0	22.5	21.5	22.5	20.5	19.0	18.0
GSM 1900	512	27.27	27.05	24.64	22.89	22.26	23.08	21.07	19.45	18.16
	661	27.21	27.12	24.71	22.96	21.63	23.13	20.99	19.49	18.05
	810	27.26	26.96	24.34	22.35	21.54	23.09	20.64	19.12	17.90

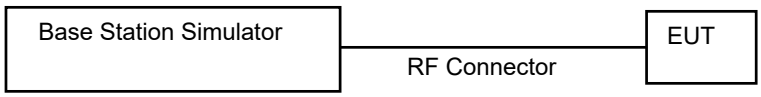
GSM Conducted output powers (Burst-Average)

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		18.47	18.47	18.98	19.24	19.49	14.47	15.48	15.74	15.99
Nominal		17.47	17.47	17.98	18.24	18.49	13.47	14.48	14.74	14.99
GSM 1900	512	18.24	18.02	18.62	18.63	19.25	14.05	15.05	15.19	15.15
	661	18.18	18.09	18.69	18.70	18.62	14.10	14.97	15.23	15.04
	810	18.23	17.93	18.32	18.09	18.53	14.06	14.62	14.86	14.89

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 capable of 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 Subtest	UMTS Band 5 [dBm] DL 4357 UL 4132	DL 4408 UL 4183	DL 4458 UL 4233	3GPP MPR
99	UMTS	12.2 kbps RMC	24.16	23.79	23.62	-
99		12.2 kbps AMR	24.12	23.72	23.61	-
2	HSDPA	Subtest 1	24.01	23.64	23.60	0
5		Subtest 2	24.02	23.61	23.53	0
5		Subtest 3	24.00	23.63	23.55	0.5
5		Subtest 4	24.01	23.61	23.53	0.5
6	HSUPA	Subtest 1	21.10	20.99	20.96	0
6		Subtest 2	20.07	19.88	20.08	0
6		Subtest 3	20.53	20.45	20.37	0
6		Subtest 4	20.10	20.95	20.85	0
6		Subtest 5	19.57	19.91	19.85	0
8	DC-HSDPA	Subtest 1	23.28	23.11	23.05	0
8		Subtest 2	22.10	22.97	22.88	0
8		Subtest 3	22.04	23.06	22.69	0.5
8		Subtest 4	22.03	23.04	22.67	0.5

UMTS Average Conducted output powers

UMTS Band 4 Maximum Conducted Output Power

3GPP Release Version	Mode	3GPP 34.121 Subtest	UMTS Band 4 [dBm] DL 1537 UL 1312	DL 1637 UL 1412	DL 1738 UL 1513	3GPP MPR
99	UMTS	12.2 kbps RMC	23.92	23.90	23.95	-
99		12.2 kbps AMR	23.73	23.61	23.91	-
5	HSDPA	Subtest 1	23.91	23.87	23.92	0
5		Subtest 2	23.91	23.87	23.98	0
5		Subtest 3	23.70	23.86	23.90	0.5
5		Subtest 4	23.68	23.88	23.86	0.5
6	HSUPA	Subtest 1	21.44	21.13	20.79	0
6		Subtest 2	21.48	21.66	21.38	0
6		Subtest 3	21.79	21.12	20.96	0
6		Subtest 4	21.52	21.65	21.41	0
6		Subtest 5	20.22	20.13	21.06	0
8	DC-HSDPA	Subtest 1	22.09	22.16	22.12	0
8		Subtest 2	21.34	21.08	21.37	0
8		Subtest 3	20.39	20.10	20.44	0.5
8		Subtest 4	20.37	20.10	20.37	0.5

UMTS Average Conducted output powers

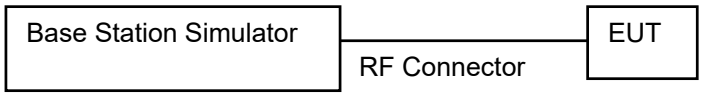
UMTS Band 2 Maximum Conducted Output Power

3GPP Release Version	Mode	3GPP 34.121 Subtest	UMTS Band 2 [dBm] DL 9662 UL 9262	DL 9800 UL 9400	DL 9938 UL 9538	3GPP MPR
99	UMTS	12.2 kbps RMC	24.39	24.36	24.51	-
99		12.2 kbps AMR	24.14	24.33	24.42	-
5	HSDPA	Subtest 1	24.34	24.25	24.45	0
5		Subtest 2	24.26	24.26	24.39	0
5		Subtest 3	24.21	24.28	24.31	0.5
5		Subtest 4	24.17	24.28	24.35	0.5
6	HSUPA	Subtest 1	21.57	21.70	21.93	0
6		Subtest 2	21.27	21.74	21.69	0
6		Subtest 3	21.34	21.65	21.66	0
6		Subtest 4	21.36	21.76	21.65	0
6		Subtest 5	20.46	20.32	20.14	0
8	DC-HSDPA	Subtest 1	23.80	23.90	23.79	0
8		Subtest 2	22.89	23.01	22.73	0
8		Subtest 3	21.84	21.90	21.80	0.5
8		Subtest 4	21.83	21.89	21.75	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 Subtest	UMTS Band 4 [dBm] DL 1537 UL 1312	DL 1637 UL 1412	DL 1738 UL 1513	3GPP MPR
99	UMTS	12.2 kbps RMC	20.67	20.78	20.67	-
99		12.2 kbps AMR	20.65	20.72	20.66	-
5	HSDPA	Subtest 1	20.64	20.66	20.65	0
5		Subtest 2	20.61	20.56	20.66	0
5		Subtest 3	20.94	20.70	20.54	0.5
5		Subtest 4	20.91	20.68	20.56	0.5
6	HSUPA	Subtest 1	19.53	19.38	19.08	0
6		Subtest 2	19.51	19.69	19.38	0
6		Subtest 3	19.51	19.10	18.91	0
6		Subtest 4	20.60	20.71	20.41	0
6		Subtest 5	18.93	19.19	19.03	0
8	DC-HSDPA	Subtest 1	20.21	20.10	20.41	0
8		Subtest 2	20.24	20.10	20.43	0
8		Subtest 3	20.19	20.07	20.41	0.5
8		Subtest 4	20.22	20.11	20.37	0.5

UMTS Average Conducted output powers

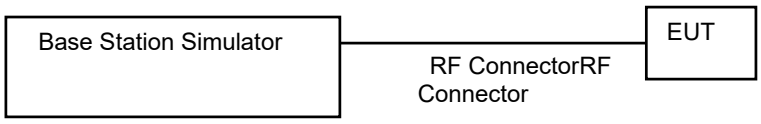
UMTS Band 2 Hotspot Back-off Power

3GPP Release Version	Mode	3GPP 34.121 Subtest	UMTS Band 2 [dBm] DL 9662 UL 9262	DL 9800 UL 9400	DL 9938 UL 9538	3GPP MPR
99	UMTS	12.2 kbps RMC	21.15	21.24	21.51	-
99		12.2 kbps AMR	21.14	21.23	21.50	-
5	HSDPA	Subtest 1	21.13	21.19	21.50	0
5		Subtest 2	21.15	21.20	21.48	0
5		Subtest 3	21.26	21.25	21.47	0.5
5		Subtest 4	21.15	21.20	21.50	0.5
6	HSUPA	Subtest 1	19.95	20.69	20.38	0
6		Subtest 2	19.21	19.81	19.51	0
6		Subtest 3	19.06	19.44	19.44	0
6		Subtest 4	20.41	20.83	20.71	0
6		Subtest 5	19.53	19.62	19.59	0
8	DC-HSDPA	Subtest 1	20.78	20.69	20.66	0
8		Subtest 2	20.74	20.69	20.65	0
8		Subtest 3	20.77	20.71	20.65	0.5
8		Subtest 4	20.74	20.66	20.60	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

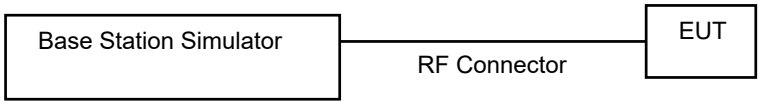
3GPP Release Version	Mode	3GPP 34.121	UMTS Band 4 [dBm]			3GPP MPR
		Subtest	DL 1537 UL 1312	DL 1637 UL 1412	DL 1738 UL 1513	
99	UMTS	12.2 kbps RMC	20.74	20.79	20.65	-
99		12.2 kbps AMR	20.73	20.78	20.64	-
5	HSDPA	Subtest 1	20.72	20.67	20.61	0
5		Subtest 2	20.71	20.62	20.62	0
5		Subtest 3	20.92	20.74	20.90	0.5
5		Subtest 4	20.90	20.71	20.89	0.5
6	HSUPA	Subtest 1	19.57	19.35	19.10	0
6		Subtest 2	19.51	19.70	19.41	0
6		Subtest 3	19.50	19.11	18.90	0
6		Subtest 4	20.58	20.73	20.39	0
6		Subtest 5	18.90	19.21	19.02	0
8	DC-HSDPA	Subtest 1	20.19	20.11	20.39	0
8		Subtest 2	20.22	20.11	20.39	0
8		Subtest 3	20.23	20.08	20.40	0.5
8		Subtest 4	20.20	20.12	20.40	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	21.22	21.27	21.57	-
99		12.2kbpsAMR	21.21	21.26	21.56	-
5	HSDPA	Subtest 1	21.19	21.21	21.51	0
5		Subtest 2	21.04	21.25	21.43	0
5		Subtest 3	21.17	21.22	21.48	0.5
5		Subtest 4	21.11	21.21	21.44	0.5
6	HSUPA	Subtest 1	19.97	20.46	20.41	0
6		Subtest 2	19.21	19.66	19.51	0
6		Subtest 3	19.07	19.43	19.42	0
6		Subtest 4	20.41	20.81	20.71	0
6		Subtest 5	19.52	19.62	19.59	0
8	DC-HSDPA	Subtest 1	20.79	20.70	20.60	0
8		Subtest 2	20.81	20.74	20.64	0
8		Subtest 3	20.81	20.69	20.63	0.5
8		Subtest 4	20.76	20.72	20.62	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 B2/B4/B5/B7/B12/B13/B14/B25/B26/B30/B38/B40/B41/B48/B66/B71 at 20 ㎒ Bandwidth does not support three non-overlapping channels. Per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the mid channel of the group of overlapping channels should be selected for testing.

11.3.1 LTE Maximum Conducted Power

[LTE Band 2 Conducted Power]

LTE Band 2 _ 1.4 ㎒ 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	23.39	23.48	23.69	0	0
		1	3	23.34	23.42	23.63	0	0
		1	5	23.47	23.56	23.88	0	0
		3	0	23.49	23.58	23.67	0	0
		3	1	23.52	23.59	23.42	0	0
		3	3	23.49	23.50	23.08	0	0
		6	0	22.56	22.62	22.31	0-1	1
	16QAM	1	0	22.77	22.78	22.51	0-1	1
		1	3	22.61	22.69	22.27	0-1	1
		1	5	22.58	22.64	22.37	0-1	1
		3	0	22.65	22.67	22.26	0-1	1
		3	1	22.67	22.65	22.18	0-1	1
		3	3	22.66	22.63	21.87	0-1	1
		6	0	21.67	21.71	21.10	0-2	2
	64QAM	1	0	21.70	21.80	21.44	0-2	2
		1	3	21.64	21.71	21.15	0-2	2
		1	5	21.74	21.70	21.39	0-2	2
		3	0	21.70	21.64	21.27	0-2	2
		3	1	21.68	21.63	21.17	0-2	2
		3	3	21.65	21.60	20.93	0-2	2
		6	0	20.62	20.62	20.49	0-3	3
	256QAM	1	0	19.62	19.81	20.00	0-5	4
		1	3	19.61	19.68	19.93	0-5	4
		1	5	19.73	19.82	19.97	0-5	4
		3	0	19.72	19.67	19.99	0-5	4
		3	1	19.63	19.67	19.98	0-5	4
		3	3	19.60	19.57	19.91	0-5	4
		6	0	18.59	18.68	18.94	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	23.41	23.48	23.69	0	0
		1	7	23.53	23.51	23.62	0	0
		1	14	23.43	23.39	23.14	0	0
		8	0	22.62	22.62	22.80	0-1	1
		8	3	22.63	22.67	22.42	0-1	1
		8	7	22.67	22.67	21.95	0-1	1
		15	0	22.66	22.68	22.27	0-1	1
	16QAM	1	0	22.66	22.82	22.91	0-1	1
		1	7	23.00	22.80	22.27	0-1	1
		1	14	22.78	22.59	21.90	0-1	1
		8	0	21.76	21.69	21.89	0-2	2
		8	3	21.72	21.70	21.62	0-2	2
		8	7	21.78	21.73	21.22	0-2	2
		15	0	21.75	21.68	21.58	0-2	2
	64QAM	1	0	21.88	21.90	22.12	0-2	2
		1	7	21.85	22.00	21.62	0-2	2
		1	14	21.81	21.82	21.31	0-2	2
		8	0	20.68	20.67	21.00	0-3	3
		8	3	20.65	20.68	20.92	0-3	3
		8	7	20.69	20.70	20.85	0-3	3
		15	0	20.69	20.62	20.95	0-3	3
	256QAM	1	0	19.93	19.75	19.97	0-5	4
		1	7	19.86	19.88	20.11	0-5	4
		1	14	19.86	19.80	20.10	0-5	4
		8	0	18.51	18.64	18.79	0-5	5
		8	3	18.54	18.53	18.72	0-5	5
		8	7	18.62	18.62	18.84	0-5	5
		15	0	18.60	18.62	18.88	0-5	5

LTE Band 2 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18625 Ch. 1852.5 ㎒	18900 Ch. 1880 ㎒	19175 Ch. 1907.5 ㎒		
5 MHz	QPSK	1	0	23.36	23.39	23.55	0	0
		1	12	23.54	23.56	23.79	0	0
		1	24	23.54	23.49	23.29	0	0
		12	0	22.60	22.62	22.80	0-1	1
		12	6	22.64	22.63	22.85	0-1	1
		12	11	22.66	22.60	22.54	0-1	1
		25	0	22.68	22.64	22.92	0-1	1
	16QAM	1	0	22.78	22.73	23.03	0-1	1
		1	12	22.80	22.58	23.02	0-1	1
		1	24	22.94	22.66	22.07	0-1	1
		12	0	21.65	21.65	21.91	0-2	2
		12	6	21.76	21.76	21.96	0-2	2
		12	11	21.80	21.69	21.81	0-2	2
		25	0	21.70	21.71	21.95	0-2	2
	64QAM	1	0	21.90	21.93	22.14	0-2	2
		1	12	21.94	22.02	22.14	0-2	2
		1	24	21.75	21.89	21.49	0-2	2
		12	0	20.64	20.65	20.87	0-3	3
		12	6	20.68	20.67	20.92	0-3	3
		12	11	20.66	20.66	20.94	0-3	3
		25	0	20.69	20.66	20.93	0-3	3
	256QAM	1	0	19.89	19.77	19.96	0-5	4
		1	12	19.87	19.89	19.99	0-5	4
		1	24	19.92	19.75	20.15	0-5	4
		12	0	18.58	18.64	18.84	0-5	5
		12	6	18.58	18.66	18.84	0-5	5
		12	11	18.62	18.60	18.80	0-5	5
		25	0	18.61	18.65	18.84	0-5	5

LTE Band 2 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18650 Ch. 1855 ㎒	18900 Ch. 1880 ㎒	19150 Ch. 1905 ㎒		
10 MHz	QPSK	1	0	23.32	23.44	23.62	0	0
		1	24	23.53	23.47	23.73	0	0
		1	49	23.44	23.36	23.21	0	0
		25	0	22.57	22.58	22.80	0-1	1
		25	12	22.64	22.62	22.86	0-1	1
		25	24	22.69	22.63	22.91	0-1	1
		50	0	22.67	22.61	22.90	0-1	1
	16QAM	1	0	22.67	22.55	22.80	0-1	1
		1	24	22.84	22.52	22.99	0-1	1
		1	49	22.68	22.72	22.07	0-1	1
		25	0	21.67	21.71	21.87	0-2	2
		25	12	21.73	21.68	21.86	0-2	2
		25	24	21.77	21.62	21.96	0-2	2
		50	0	21.71	21.67	21.92	0-2	2
	64QAM	1	0	21.88	21.83	21.94	0-2	2
		1	24	21.92	21.96	22.27	0-2	2
		1	49	21.95	21.92	21.54	0-2	2
		25	0	20.64	20.69	20.84	0-3	3
		25	12	20.74	20.65	20.91	0-3	3
		25	24	20.76	20.62	20.92	0-3	3
		50	0	20.71	20.74	20.93	0-3	3
	256QAM	1	0	19.75	19.84	19.83	0-5	4
		1	24	20.02	19.92	20.21	0-5	4
		1	49	19.81	19.68	20.19	0-5	4
		25	0	18.68	18.69	18.82	0-5	5
		25	12	18.65	18.64	18.85	0-5	5
		25	24	18.72	18.66	18.86	0-5	5
		50	0	18.66	18.65	18.80	0-5	5

LTE Band 2 _ 15 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18675 Ch. 1857.5 ㎒	18900 Ch. 1880 ㎒	19125 Ch. 1902.5 ㎒		
15 MHz	QPSK	1	0	23.27	23.31	23.48	0	0
		1	36	23.57	23.55	23.75	0	0
		1	74	23.48	23.39	23.40	0	0
		36	0	22.60	22.66	22.79	0-1	1
		36	18	22.69	22.64	22.83	0-1	1
		36	39	22.76	22.64	22.89	0-1	1
		75	0	22.70	22.65	22.78	0-1	1
	16QAM	1	0	22.57	22.70	22.70	0-1	1
		1	36	22.85	22.87	23.06	0-1	1
		1	74	22.26	22.85	22.19	0-1	1
		36	0	21.67	21.67	21.80	0-2	2
		36	18	21.76	21.67	21.82	0-2	2
		36	39	21.75	21.68	21.90	0-2	2
		75	0	21.69	21.63	21.86	0-2	2
	64QAM	1	0	21.61	21.73	21.67	0-2	2
		1	36	21.99	21.86	22.05	0-2	2
		1	74	21.71	21.71	21.73	0-2	2
		36	0	20.74	20.69	20.86	0-3	3
		36	18	20.84	20.76	20.92	0-3	3
		36	39	20.84	20.70	20.95	0-3	3
		75	0	20.71	20.67	20.84	0-3	3
	256QAM	1	0	19.62	19.75	19.97	0-5	4
		1	36	19.81	19.80	19.94	0-5	4
		1	74	19.88	19.61	19.99	0-5	4
		36	0	18.64	18.65	18.77	0-5	5
		36	18	18.67	18.68	18.79	0-5	5
		36	39	18.76	18.63	18.84	0-5	5
		75	0	18.67	18.67	18.79	0-5	5

LTE Band 2 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18700 Ch. 1860 ㎒	18900 Ch. 1880 ㎒	19100 Ch. 1900 ㎒		
20 MHz	QPSK	1	0	23.23	23.32	23.56	0	0
		1	49	23.54	23.53	23.67	0	0
		1	99	23.23	23.28	23.47	0	0
		50	0	22.62	22.64	22.76	0-1	1
		50	25	22.75	22.62	22.80	0-1	1
		50	49	22.82	22.60	22.85	0-1	1
		100	0	22.66	22.61	22.80	0-1	1
	16QAM	1	0	22.55	22.32	22.79	0-1	1
		1	49	23.02	22.65	22.98	0-1	1
		1	99	21.97	22.52	22.28	0-1	1
		50	0	21.69	21.70	21.82	0-2	2
		50	25	21.79	21.67	21.90	0-2	2
		50	49	21.84	21.63	21.91	0-2	2
		100	0	21.70	21.62	21.77	0-2	2
	64QAM	1	0	21.73	21.84	21.87	0-2	2
		1	49	21.84	21.98	22.13	0-2	2
		1	99	21.43	21.74	21.78	0-2	2
		50	0	20.77	20.77	20.83	0-3	3
		50	25	20.83	20.70	20.89	0-3	3
		50	49	20.86	20.69	20.89	0-3	3
		100	0	20.70	20.63	20.84	0-3	3
	256QAM	1	0	19.54	19.69	20.02	0-5	4
		1	49	19.95	19.93	20.15	0-5	4
		1	99	19.86	19.61	19.99	0-5	4
		50	0	18.61	18.64	18.78	0-5	5
		50	25	18.69	18.64	18.81	0-5	5
		50	49	18.75	18.61	18.80	0-5	5
		100	0	18.65	18.63	18.78	0-5	5

[LTE Band 4 Conducted Power]

LTE Band 4 _ 1.4 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19957 Ch. 1710.7 ㎒	20175 Ch. 1732.5 ㎒	20393 Ch. 1754.3 ㎒		
1.4 MHz	QPSK	1	0	22.90	23.01	23.04	0	0
		1	3	22.84	22.90	23.02	0	0
		1	5	22.92	23.06	23.08	0	0
		3	0	22.96	23.00	23.04	0	0
		3	1	22.87	22.93	22.96	0	0
		3	3	23.05	23.08	23.07	0	0
		6	0	22.16	22.20	22.29	0-1	1
	16QAM	1	0	22.34	22.27	22.31	0-1	1
		1	3	22.23	22.03	22.26	0-1	1
		1	5	22.16	22.14	22.33	0-1	1
		3	0	22.02	22.04	22.15	0-1	1
		3	1	22.11	22.16	22.18	0-1	1
		3	3	22.11	22.20	22.23	0-1	1
		6	0	21.26	21.25	21.36	0-2	2
	64QAM	1	0	21.28	21.23	21.46	0-2	2
		1	3	21.14	21.29	21.26	0-2	2
		1	5	21.26	21.28	21.41	0-2	2
		3	0	21.13	21.11	21.24	0-2	2
		3	1	21.02	21.10	21.33	0-2	2
		3	3	21.17	21.12	21.30	0-2	2
		6	0	20.17	20.18	20.38	0-3	3
	256QAM	1	0	19.31	19.31	19.30	0-5	4
		1	3	19.15	19.08	19.16	0-5	4
		1	5	19.22	19.26	19.31	0-5	4
		3	0	19.17	19.20	19.35	0-5	4
		3	1	19.14	19.27	19.25	0-5	4
		3	3	19.17	19.23	19.26	0-5	4
		6	0	18.15	18.19	18.29	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	22.90	22.99	23.01	0	0
		1	7	22.82	22.87	22.86	0	0
		1	14	22.86	22.88	22.95	0	0
		8	0	22.09	22.11	22.17	0-1	1
		8	3	22.07	22.10	22.17	0-1	1
		8	7	22.12	22.14	22.15	0-1	1
		15	0	22.13	22.12	22.23	0-1	1
	16QAM	1	0	22.41	22.36	22.34	0-1	1
		1	7	22.21	22.27	22.45	0-1	1
		1	14	22.27	22.45	22.44	0-1	1
		8	0	21.22	21.20	21.27	0-2	2
		8	3	21.24	21.19	21.29	0-2	2
		8	7	21.24	21.22	21.23	0-2	2
		15	0	21.20	21.21	21.28	0-2	2
	64QAM	1	0	21.40	21.29	21.39	0-2	2
		1	7	21.22	21.19	21.53	0-2	2
		1	14	21.26	21.30	21.57	0-2	2
		8	0	20.21	20.15	20.26	0-3	3
		8	3	20.20	20.20	20.23	0-3	3
		8	7	20.26	20.18	20.23	0-3	3
		15	0	20.22	20.20	20.25	0-3	3
	256QAM	1	0	19.26	19.37	19.39	0-5	4
		1	7	19.21	19.32	19.39	0-5	4
		1	14	19.35	19.40	19.38	0-5	4
		8	0	17.97	18.11	18.09	0-5	5
		8	3	18.00	18.06	18.13	0-5	5
		8	7	18.00	18.09	18.12	0-5	5
		15	0	18.16	18.15	18.22	0-5	5

LTE Band 4 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19975 Ch. 1712.5 ㎒	20175 Ch. 1732.5 ㎒	20375 Ch. 1752.5 ㎒		
5 MHz	QPSK	1	0	22.81	22.91	22.94	0	0
		1	12	22.82	22.88	22.90	0	0
		1	24	22.94	22.95	23.00	0	0
		12	0	22.10	22.11	22.22	0-1	1
		12	6	22.13	22.12	22.18	0-1	1
		12	11	22.14	22.19	22.24	0-1	1
		25	0	22.16	22.27	22.30	0-1	1
	16QAM	1	0	22.34	22.25	22.41	0-1	1
		1	12	22.20	22.40	22.44	0-1	1
		1	24	22.37	22.31	22.60	0-1	1
		12	0	21.19	21.24	21.33	0-2	2
		12	6	21.19	21.23	21.31	0-2	2
		12	11	21.25	21.24	21.32	0-2	2
		25	0	21.21	21.21	21.34	0-2	2
	64QAM	1	0	21.33	21.41	21.52	0-2	2
		1	12	21.46	21.32	21.48	0-2	2
		1	24	21.45	21.39	21.50	0-2	2
		12	0	20.20	20.24	20.29	0-3	3
		12	6	20.27	20.25	20.29	0-3	3
		12	11	20.23	20.26	20.30	0-3	3
		25	0	20.20	20.18	20.29	0-3	3
	256QAM	1	0	19.48	19.25	19.58	0-5	4
		1	12	19.35	19.27	19.63	0-5	4
		1	24	19.28	19.27	19.56	0-5	4
		12	0	18.13	18.14	18.28	0-5	5
		12	6	18.13	18.17	18.26	0-5	5
		12	11	18.19	18.15	18.24	0-5	5
		25	0	18.10	18.14	18.22	0-5	5

LTE Band 4 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20000 Ch. 1715 ㎒	20175 Ch. 1732.5 ㎒	20350 Ch. 1750 ㎒		
10 MHz	QPSK	1	0	22.85	22.98	23.08	0	0
		1	24	22.88	22.88	23.02	0	0
		1	49	22.91	22.89	22.98	0	0
		25	0	22.13	22.19	22.30	0-1	1
		25	12	22.16	22.22	22.30	0-1	1
		25	24	22.16	22.25	22.27	0-1	1
		50	0	22.23	22.29	22.34	0-1	1
	16QAM	1	0	22.12	22.30	22.28	0-1	1
		1	24	22.23	22.26	22.21	0-1	1
		1	49	22.23	22.40	22.29	0-1	1
		25	0	21.19	21.25	21.34	0-2	2
		25	12	21.21	21.22	21.30	0-2	2
		25	24	21.24	21.22	21.26	0-2	2
		50	0	21.24	21.27	21.33	0-2	2
	64QAM	1	0	21.22	21.13	21.35	0-2	2
		1	24	21.43	21.18	21.32	0-2	2
		1	49	21.55	21.31	21.29	0-2	2
		25	0	20.18	20.17	20.28	0-3	3
		25	12	20.17	20.23	20.28	0-3	3
		25	24	20.18	20.24	20.24	0-3	3
		50	0	20.23	20.23	20.38	0-3	3
	256QAM	1	0	19.28	19.28	19.48	0-5	4
		1	24	19.34	19.28	19.48	0-5	4
		1	49	19.48	19.26	19.48	0-5	4
		25	0	18.12	18.20	18.29	0-5	5
		25	12	18.16	18.18	18.27	0-5	5
		25	24	18.17	18.15	18.27	0-5	5
		50	0	18.18	18.18	18.32	0-5	5

LTE Band 4 _ 15 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20025 Ch. 1717.5 ㎒	20175 Ch. 1732.5 ㎒	20325 Ch. 1747.5 ㎒		
15 MHz	QPSK	1	0	22.77	22.81	23.03	0	0
		1	36	22.85	22.87	23.00	0	0
		1	74	22.93	22.90	22.97	0	0
		36	0	22.15	22.15	22.31	0-1	1
		36	18	22.11	22.17	22.33	0-1	1
		36	39	22.20	22.16	22.29	0-1	1
		75	0	22.16	22.15	22.28	0-1	1
	16QAM	1	0	22.20	22.45	22.54	0-1	1
		1	36	22.33	22.45	22.52	0-1	1
		1	74	22.27	22.38	22.46	0-1	1
		36	0	21.20	21.24	21.33	0-2	2
		36	18	21.26	21.21	21.35	0-2	2
		36	39	21.27	21.21	21.31	0-2	2
		75	0	21.19	21.15	21.26	0-2	2
	64QAM	1	0	21.36	21.49	21.53	0-2	2
		1	36	21.37	21.39	21.54	0-2	2
		1	74	21.38	21.44	21.54	0-2	2
		36	0	20.23	20.24	20.32	0-3	3
		36	18	20.29	20.25	20.39	0-3	3
		36	39	20.27	20.25	20.34	0-3	3
		75	0	20.12	20.15	20.26	0-3	3
	256QAM	1	0	19.17	19.23	19.51	0-5	4
		1	36	19.12	19.35	19.44	0-5	4
		1	74	19.28	19.37	19.30	0-5	4
		36	0	18.16	18.17	18.26	0-5	5
		36	18	18.19	18.21	18.24	0-5	5
		36	39	18.19	18.15	18.26	0-5	5
		75	0	18.17	18.22	18.30	0-5	5

LTE Band 4 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm] 20175 ch. 1732.5 MHz	MPR Allowed Per 3GPP [dB]	MPR [dB]
20 MHz	QPSK	1	0	22.86	0	0
		1	49	22.90	0	0
		1	99	22.79	0	0
		50	0	22.18	0-1	1
		50	25	22.23	0-1	1
		50	49	22.26	0-1	1
		100	0	22.17	0-1	1
	16QAM	1	0	22.14	0-1	1
		1	49	22.09	0-1	1
		1	99	22.13	0-1	1
		50	0	21.19	0-2	2
		50	25	21.21	0-2	2
		50	49	21.26	0-2	2
		100	0	21.14	0-2	2
	64QAM	1	0	21.31	0-2	2
		1	49	21.33	0-2	2
		1	99	21.28	0-2	2
		50	0	20.21	0-3	3
		50	25	20.24	0-3	3
		50	49	20.21	0-3	3
		100	0	20.18	0-3	3
	256QAM	1	0	19.21	0-5	4
		1	49	19.31	0-5	4
		1	99	19.25	0-5	4
		50	0	18.19	0-5	5
		50	25	18.25	0-5	5
		50	49	18.19	0-5	5
		100	0	18.15	0-5	5

[LTE Band 5 Conducted Power]

LTE Band 5 _ 1.4 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20407 Ch. 824.7 ㎒	20525 Ch. 836.5 ㎒	20643 Ch. 848.3 ㎒		
1.4 MHz	QPSK	1	0	23.94	23.49	22.65	0	0
		1	3	23.93	23.42	22.69	0	0
		1	5	23.98	23.52	22.82	0	0
		3	0	23.89	23.52	22.73	0	0
		3	1	23.90	23.42	22.69	0	0
		3	3	23.94	23.46	22.67	0	0
		6	0	23.13	22.53	21.78	0-1	1
	16QAM	1	0	23.37	22.80	21.90	0-1	1
		1	3	23.37	22.62	21.84	0-1	1
		1	5	23.32	22.77	22.01	0-1	1
		3	0	23.22	22.66	21.69	0-1	1
		3	1	23.14	22.57	21.83	0-1	1
		3	3	23.12	22.63	21.83	0-1	1
		6	0	22.14	21.60	20.81	0-2	2
	64QAM	1	0	22.21	21.70	20.95	0-2	2
		1	3	22.06	21.69	20.80	0-2	2
		1	5	22.20	21.70	20.89	0-2	2
		3	0	22.26	21.66	20.69	0-2	2
		3	1	22.24	21.67	20.87	0-2	2
		3	3	22.14	21.62	20.79	0-2	2
		6	0	21.09	20.57	19.81	0-3	3
	256QAM	1	0	20.22	19.55	18.70	0-5	4
		1	3	20.12	19.62	18.76	0-5	4
		1	5	20.27	19.62	18.83	0-5	4
		3	0	20.15	19.62	18.78	0-5	4
		3	1	20.16	19.60	18.81	0-5	4
		3	3	20.15	19.62	18.75	0-5	4
		6	0	19.15	18.55	17.75	0-5	5

LTE Band 5 _ 3 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20415 Ch. 825.5 ㎒	20525 Ch. 836.5 ㎒	20635 Ch. 847.5 ㎒		
3 MHz	QPSK	1	0	23.96	23.52	22.72	0	0
		1	7	23.86	23.41	22.56	0	0
		1	14	23.87	23.40	22.58	0	0
		8	0	23.12	22.61	21.83	0-1	1
		8	3	23.10	22.58	21.79	0-1	1
		8	7	23.06	22.61	21.81	0-1	1
		15	0	23.10	22.56	21.81	0-1	1
	16QAM	1	0	23.29	22.61	21.93	0-1	1
		1	7	23.11	22.49	21.84	0-1	1
		1	14	23.30	22.70	22.03	0-1	1
		8	0	22.13	21.66	20.86	0-2	2
		8	3	22.14	21.63	20.90	0-2	2
		8	7	22.12	21.60	20.93	0-2	2
		15	0	22.10	21.58	20.83	0-2	2
	64QAM	1	0	22.38	21.88	20.98	0-2	2
		1	7	22.19	21.67	20.80	0-2	2
		1	14	22.08	21.79	20.87	0-2	2
		8	0	21.06	20.56	19.73	0-3	3
		8	3	21.08	20.60	19.78	0-3	3
		8	7	20.99	20.58	19.82	0-3	3
		15	0	21.00	20.60	19.77	0-3	3
	256QAM	1	0	20.26	19.69	18.98	0-5	4
		1	7	20.36	19.61	19.04	0-5	4
		1	14	20.29	19.61	19.03	0-5	4
		8	0	18.96	18.46	17.63	0-5	5
		8	3	18.94	18.45	17.66	0-5	5
		8	7	18.94	18.43	17.64	0-5	5
		15	0	19.07	18.55	17.75	0-5	5

LTE Band 5 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20425 Ch. 826.5 ㎒	20525 Ch. 836.5 ㎒	20625 Ch. 846.5 ㎒		
5 MHz	QPSK	1	0	23.89	23.40	22.68	0	0
		1	12	23.83	23.33	22.65	0	0
		1	24	23.88	23.46	22.76	0	0
		12	0	23.11	22.61	21.92	0-1	1
		12	6	23.05	22.62	21.88	0-1	1
		12	11	23.09	22.60	21.89	0-1	1
		25	0	23.10	22.59	21.84	0-1	1
	16QAM	1	0	23.08	22.82	21.84	0-1	1
		1	12	23.12	22.83	21.81	0-1	1
		1	24	23.03	22.62	21.86	0-1	1
		12	0	22.08	21.62	20.90	0-2	2
		12	6	22.02	21.60	20.85	0-2	2
		12	11	22.03	21.59	20.89	0-2	2
		25	0	22.05	21.61	20.90	0-2	2
	64QAM	1	0	22.28	21.80	21.18	0-2	2
		1	12	22.11	21.74	21.15	0-2	2
		1	24	22.23	21.76	21.20	0-2	2
		12	0	21.06	20.56	19.87	0-3	3
		12	6	21.05	20.55	19.82	0-3	3
		12	11	21.00	20.63	19.83	0-3	3
		25	0	21.04	20.58	19.85	0-3	3
	256QAM	1	0	20.15	19.63	18.93	0-5	4
		1	12	20.07	19.62	18.85	0-5	4
		1	24	20.11	19.79	18.90	0-5	4
		12	0	19.01	18.55	17.80	0-5	5
		12	6	19.01	18.52	17.82	0-5	5
		12	11	18.99	18.57	17.81	0-5	5
		25	0	19.04	18.61	17.87	0-5	5

LTE Band 5 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm] 20525 Ch. 836.5 ㎒	MPR Allowed Per 3GPP [dB]	MPR [dB]
10 MHz	QPSK	1	0	23.51	0	0
		1	24	23.39	0	0
		1	49	23.37	0	0
		25	0	22.66	0-1	1
		25	12	22.57	0-1	1
		25	24	22.58	0-1	1
		50	0	22.65	0-1	1
	16QAM	1	0	22.66	0-1	1
		1	24	22.71	0-1	1
		1	49	22.71	0-1	1
		25	0	21.63	0-2	2
		25	12	21.57	0-2	2
		25	24	21.58	0-2	2
		50	0	21.62	0-2	2
	64QAM	1	0	21.76	0-2	2
		1	24	21.80	0-2	2
		1	49	21.85	0-2	2
		25	0	20.60	0-3	3
		25	12	20.61	0-3	3
		25	24	20.56	0-3	3
		50	0	20.64	0-3	3
	256QAM	1	0	19.72	0-5	4
		1	24	19.63	0-5	4
		1	49	19.62	0-5	4
		25	0	18.62	0-5	5
		25	12	18.57	0-5	5
		25	24	18.59	0-5	5
		50	0	18.63	0-5	5

[LTE Band 7 Conducted Power]

LTE Band 7 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20775 Ch. 2502.5 ㎒	21100 Ch. 2535 ㎒	21425 Ch. 2567.5 ㎒		
5 MHz	QPSK	1	0	23.35	22.97	23.43	0	0
		1	12	23.21	22.90	23.29	0	0
		1	24	23.16	22.93	23.35	0	0
		12	0	22.26	22.10	22.55	0-1	1
		12	6	22.28	22.12	22.52	0-1	1
		12	11	22.27	22.11	22.50	0-1	1
		25	0	22.33	22.18	22.59	0-1	1
	16QAM	1	0	22.29	22.32	22.78	0-1	1
		1	12	22.27	22.23	22.53	0-1	1
		1	24	22.40	21.98	22.63	0-1	1
		12	0	21.22	21.19	21.50	0-2	2
		12	6	21.26	21.19	21.54	0-2	2
		12	11	21.26	21.18	21.53	0-2	2
		25	0	21.34	21.20	21.64	0-2	2
	64QAM	1	0	21.39	21.38	21.81	0-2	2
		1	12	21.42	21.36	21.75	0-2	2
		1	24	21.40	21.21	21.73	0-2	2
		12	0	20.29	20.17	20.61	0-3	3
		12	6	20.35	20.21	20.61	0-3	3
		12	11	20.34	20.25	20.56	0-3	3
		25	0	20.41	20.35	20.72	0-3	3
	256QAM	1	0	19.33	19.25	19.66	0-5	4
		1	12	19.39	19.23	19.68	0-5	4
		1	24	19.41	19.30	19.65	0-5	4
		12	0	18.32	18.31	18.70	0-5	5
		12	6	18.35	18.35	18.71	0-5	5
		12	11	18.38	18.32	18.64	0-5	5
		25	0	18.54	18.47	18.85	0-5	5

LTE Band 7_ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20800 Ch. 2505 ㎒	21100 Ch. 2535 ㎒	21400 Ch. 2565 ㎒		
10 MHz	QPSK	1	0	23.47	23.49	23.85	0	0
		1	24	23.29	23.15	23.53	0	0
		1	49	23.10	22.92	23.26	0	0
		25	0	22.43	22.31	22.69	0-1	1
		25	12	22.38	22.23	22.63	0-1	1
		25	24	22.38	22.23	22.61	0-1	1
		50	0	22.45	22.29	22.67	0-1	1
	16QAM	1	0	22.45	22.28	22.63	0-1	1
		1	24	22.51	22.24	22.50	0-1	1
		1	49	22.50	22.20	22.41	0-1	1
		25	0	21.39	21.29	21.66	0-2	2
		25	12	21.40	21.27	21.63	0-2	2
		25	24	21.35	21.28	21.60	0-2	2
		50	0	21.45	21.27	21.67	0-2	2
	64QAM	1	0	21.54	21.35	21.62	0-2	2
		1	24	21.37	21.15	21.69	0-2	2
		1	49	21.40	21.16	21.59	0-2	2
		25	0	20.43	20.35	20.75	0-3	3
		25	12	20.41	20.36	20.68	0-3	3
		25	24	20.40	20.35	20.69	0-3	3
		50	0	20.52	20.40	20.79	0-3	3
	256QAM	1	0	19.35	19.52	19.84	0-5	4
		1	24	19.41	19.44	19.85	0-5	4
		1	49	19.36	19.22	19.69	0-5	4
		25	0	18.55	18.46	18.86	0-5	5
		25	12	18.59	18.48	18.86	0-5	5
		25	24	18.55	18.45	18.80	0-5	5
		50	0	18.62	18.48	18.89	0-5	5

LTE Band 7 _ 15 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20825 Ch. 2507.5 ㎒	21100 Ch. 2535 ㎒	21375 Ch. 2562.5 ㎒		
15 MHz	QPSK	1	0	23.37	23.46	23.83	0	0
		1	36	23.31	23.08	23.47	0	0
		1	74	23.17	22.91	23.19	0	0
		36	0	22.42	22.27	22.65	0-1	1
		36	18	22.44	22.23	22.62	0-1	1
		36	39	22.37	22.15	22.50	0-1	1
		75	0	22.34	22.20	22.61	0-1	1
	16QAM	1	0	22.37	22.29	22.63	0-1	1
		1	36	22.52	22.30	22.47	0-1	1
		1	74	22.38	22.02	22.33	0-1	1
		36	0	21.37	21.21	21.59	0-2	2
		36	18	21.37	21.21	21.55	0-2	2
		36	39	21.32	21.19	21.50	0-2	2
		75	0	21.36	21.23	21.63	0-2	2
	64QAM	1	0	21.54	21.33	21.71	0-2	2
		1	36	21.58	21.29	21.90	0-2	2
		1	74	21.44	21.14	21.60	0-2	2
		36	0	20.46	20.32	20.71	0-3	3
		36	18	20.40	20.35	20.68	0-3	3
		36	39	20.45	20.29	20.62	0-3	3
		75	0	20.44	20.33	20.67	0-3	3
	256QAM	1	0	19.44	19.48	19.63	0-5	4
		1	36	19.49	19.53	19.67	0-5	4
		1	74	19.39	19.41	19.55	0-5	4
		36	0	18.50	18.42	18.75	0-5	5
		36	18	18.54	18.40	18.74	0-5	5
		36	39	18.49	18.35	18.69	0-5	5
		75	0	18.62	18.48	18.87	0-5	5

LTE Band 7 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20850 Ch. 2510 ㎒	21100 Ch. 2535 ㎒	21350 Ch. 2560 ㎒		
20 MHz	QPSK	1	0	23.41	23.14	23.81	0	0
		1	49	23.33	23.09	23.46	0	0
		1	99	23.08	22.73	23.08	0	0
		50	0	22.50	22.27	22.75	0-1	1
		50	25	22.52	22.25	22.72	0-1	1
		50	49	22.48	22.18	22.58	0-1	1
		100	0	22.45	22.20	22.58	0-1	1
	16QAM	1	0	22.31	22.20	22.68	0-1	1
		1	49	22.40	22.14	22.39	0-1	1
		1	99	22.35	22.05	22.38	0-1	1
		50	0	21.45	21.32	21.69	0-2	2
		50	25	21.45	21.29	21.64	0-2	2
		50	49	21.48	21.25	21.56	0-2	2
		100	0	21.41	21.23	21.56	0-2	2
	64QAM	1	0	21.45	21.44	21.71	0-2	2
		1	49	21.49	21.13	21.57	0-2	2
		1	99	21.35	21.14	21.43	0-2	2
		50	0	20.55	20.44	20.76	0-3	3
		50	25	20.58	20.41	20.76	0-3	3
		50	49	20.56	20.31	20.64	0-3	3
		100	0	20.48	20.30	20.64	0-3	3
	256QAM	1	0	19.39	19.47	19.66	0-5	4
		1	49	19.60	19.43	19.79	0-5	4
		1	99	19.37	19.34	19.47	0-5	4
		50	0	18.63	18.52	18.87	0-5	5
		50	25	18.63	18.55	18.80	0-5	5
		50	49	18.59	18.44	18.77	0-5	5
		100	0	18.56	18.51	18.82	0-5	5

[LTE Band 12 Conducted Power]

LTE Band 12 _ 1.4 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23017 Ch. 699.7 ㎒	23095 Ch. 707.5 ㎒	23173 Ch. 715.3 ㎒		
1.4 MHz	QPSK	1	0	23.62	23.68	23.61	0	0
		1	3	23.63	23.66	23.65	0	0
		1	5	23.70	23.71	23.69	0	0
		3	0	23.69	23.75	23.65	0	0
		3	1	23.61	23.61	23.48	0	0
		3	3	23.64	23.67	23.75	0	0
		6	0	22.69	22.75	22.72	0-1	1
	16QAM	1	0	23.00	22.93	22.94	0-1	1
		1	3	22.82	22.86	22.97	0-1	1
		1	5	22.92	22.79	22.88	0-1	1
		3	0	22.80	22.82	22.89	0-1	1
		3	1	22.78	22.72	22.75	0-1	1
		3	3	22.77	22.76	22.74	0-1	1
		6	0	21.70	21.87	21.81	0-2	2
	64QAM	1	0	21.89	21.87	21.88	0-2	2
		1	3	21.66	21.84	21.89	0-2	2
		1	5	21.80	21.82	21.91	0-2	2
		3	0	21.81	21.87	21.82	0-2	2
		3	1	21.75	21.94	21.81	0-2	2
		3	3	21.81	21.84	21.79	0-2	2
		6	0	20.70	20.80	20.77	0-3	3
	256QAM	1	0	19.74	19.81	19.71	0-5	4
		1	3	19.67	19.82	19.81	0-5	4
		1	5	19.75	19.88	19.96	0-5	4
		3	0	19.78	19.91	19.80	0-5	4
		3	1	19.66	19.76	19.74	0-5	4
		3	3	19.71	19.87	19.70	0-5	4
		6	0	18.71	18.77	18.69	0-5	5

LTE Band 12 _ 3 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23025 Ch. 700.5 ㎒	23095 Ch. 707.5 ㎒	23165 Ch. 714.5 ㎒		
3 MHz	QPSK	1	0	23.81	23.69	23.73	0	0
		1	7	23.70	23.62	23.63	0	0
		1	14	23.65	23.58	23.61	0	0
		8	0	22.80	22.79	22.83	0-1	1
		8	3	22.84	22.78	22.77	0-1	1
		8	7	22.81	22.84	22.81	0-1	1
		15	0	22.85	22.83	22.86	0-1	1
	16QAM	1	0	22.98	23.17	22.99	0-1	1
		1	7	22.84	22.74	22.91	0-1	1
		1	14	22.95	23.09	23.10	0-1	1
		8	0	21.85	21.86	21.86	0-2	2
		8	3	21.82	21.88	21.89	0-2	2
		8	7	21.89	21.80	21.83	0-2	2
		15	0	21.78	21.82	21.82	0-2	2
	64QAM	1	0	21.99	21.94	21.89	0-2	2
		1	7	22.12	22.07	22.01	0-2	2
		1	14	22.02	22.04	22.03	0-2	2
		8	0	20.77	20.82	20.79	0-3	3
		8	3	20.81	20.83	20.76	0-3	3
		8	7	20.81	20.82	20.85	0-3	3
		15	0	20.84	20.75	20.79	0-3	3
	256QAM	1	0	20.05	20.06	20.06	0-5	4
		1	7	19.90	20.01	20.17	0-5	4
		1	14	19.93	20.01	20.03	0-5	4
		8	0	18.58	18.66	18.63	0-5	5
		8	3	18.62	18.67	18.56	0-5	5
		8	7	18.63	18.72	18.60	0-5	5
		15	0	18.76	18.80	18.73	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	23.77	23.68	23.66	0	0
		1	12	23.69	23.58	23.62	0	0
		1	24	23.78	23.64	23.70	0	0
		12	0	22.94	22.83	22.85	0-1	1
		12	6	22.93	22.82	22.81	0-1	1
		12	11	22.92	22.80	22.85	0-1	1
		25	0	22.88	22.81	22.78	0-1	1
	16QAM	1	0	23.32	23.08	22.90	0-1	1
		1	12	23.13	23.00	22.93	0-1	1
		1	24	22.99	22.97	22.95	0-1	1
		12	0	21.92	21.86	21.85	0-2	2
		12	6	21.84	21.89	21.81	0-2	2
		12	11	21.81	21.84	21.80	0-2	2
		25	0	21.82	21.82	21.79	0-2	2
	64QAM	1	0	22.15	22.03	22.07	0-2	2
		1	12	22.11	21.96	22.14	0-2	2
		1	24	21.96	21.92	21.95	0-2	2
		12	0	20.80	20.85	20.77	0-3	3
		12	6	20.77	20.85	20.79	0-3	3
		12	11	20.74	20.84	20.82	0-3	3
		25	0	20.76	20.81	20.80	0-3	3
	256QAM	1	0	20.11	20.06	20.03	0-5	4
		1	12	19.85	19.95	19.84	0-5	4
		1	24	19.93	19.93	19.96	0-5	4
		12	0	18.76	18.82	18.74	0-5	5
		12	6	18.84	18.80	18.74	0-5	5
		12	11	18.77	18.74	18.81	0-5	5
		25	0	18.76	18.88	18.80	0-5	5

LTE Band 12 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm] 23095 Ch. 707.5 MHz	MPR Allowed Per 3GPP [dB]	MPR [dB]
10 MHz	QPSK	1	0	23.94	0	0
		1	24	23.83	0	0
		1	49	23.72	0	0
		25	0	23.02	0-1	1
		25	12	22.97	0-1	1
		25	24	22.93	0-1	1
		50	0	22.95	0-1	1
	16QAM	1	0	23.09	0-1	1
		1	24	22.93	0-1	1
		1	49	23.04	0-1	1
		25	0	21.95	0-2	2
		25	12	21.91	0-2	2
		25	24	21.78	0-2	2
		50	0	21.92	0-2	2
	64QAM	1	0	21.98	0-2	2
		1	24	21.97	0-2	2
		1	49	21.84	0-2	2
		25	0	20.90	0-3	3
		25	12	20.84	0-3	3
		25	24	20.85	0-3	3
		50	0	20.89	0-3	3
	256QAM	1	0	20.01	0-5	4
		1	24	20.09	0-5	4
		1	49	19.89	0-5	4
		25	0	18.84	0-5	5
		25	12	18.89	0-5	5
		25	24	18.81	0-5	5
		50	0	18.86	0-5	5

[LTE Band 13 Conducted Power]

LTE Band 13 _ 5 ㎒ 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	23.60	23.61	23.61	0	0
		1	12	23.58	23.63	23.58	0	0
		1	24	23.64	23.65	23.62	0	0
		12	0	22.79	22.76	22.76	0-1	1
		12	6	22.78	22.80	22.74	0-1	1
		12	11	22.78	22.79	22.77	0-1	1
		25	0	22.82	22.88	22.80	0-1	1
	16QAM	1	0	22.87	23.05	22.87	0-1	1
		1	12	22.63	22.50	22.53	0-1	1
		1	24	22.69	22.70	22.64	0-1	1
		12	0	21.68	21.68	21.73	0-2	2
		12	6	21.67	21.75	21.69	0-2	2
		12	11	21.69	21.72	21.70	0-2	2
		25	0	21.82	21.82	21.79	0-2	2
	64QAM	1	0	21.90	21.88	21.86	0-2	2
		1	12	21.69	21.81	21.73	0-2	2
		1	24	21.70	21.70	21.55	0-2	2
		12	0	20.64	20.67	20.62	0-3	3
		12	6	20.66	20.60	20.62	0-3	3
		12	11	20.63	20.68	20.58	0-3	3
		25	0	20.73	20.77	20.71	0-3	3
	256QAM	1	0	19.71	19.71	19.76	0-5	4
		1	12	19.80	19.72	19.61	0-5	4
		1	24	19.76	19.82	19.74	0-5	4
		12	0	18.58	18.65	18.63	0-5	5
		12	6	18.51	18.59	18.61	0-5	5
		12	11	18.53	18.62	18.60	0-5	5
		25	0	18.77	18.75	18.74	0-5	5

LTE Band 13 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm] 23230 Ch. 782 ㎒	MPR Allowed Per 3GPP [dB]	MPR [dB]
10 MHz	QPSK	1	0	23.78	0	0
		1	24	23.65	0	0
		1	49	23.57	0	0
		25	0	22.92	0-1	1
		25	12	22.89	0-1	1
		25	24	22.84	0-1	1
		50	0	22.91	0-1	1
	16QAM	1	0	22.85	0-1	1
		1	24	22.70	0-1	1
		1	49	22.70	0-1	1
		25	0	21.85	0-2	2
		25	12	21.81	0-2	2
		25	24	21.80	0-2	2
		50	0	21.84	0-2	2
	64QAM	1	0	21.94	0-2	2
		1	24	21.86	0-2	2
		1	49	21.84	0-2	2
		25	0	20.79	0-3	3
		25	12	20.80	0-3	3
		25	24	20.72	0-3	3
		50	0	20.84	0-3	3
	256QAM	1	0	19.85	0-5	4
		1	24	19.82	0-5	4
		1	49	19.74	0-5	4
		25	0	18.76	0-5	5
		25	12	18.75	0-5	5
		25	24	18.77	0-5	5
		50	0	18.77	0-5	5

[LTE Band 14 Conducted Power]

LTE Band 14 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23305 Ch. 790.5 ㎒	23330 Ch. 793 ㎒	23355 Ch. 795.5 ㎒		
5 MHz	QPSK	1	0	23.57	23.47	23.42	0	0
		1	12	23.52	23.46	23.40	0	0
		1	24	23.54	23.46	23.45	0	0
		12	0	22.71	22.64	22.58	0-1	1
		12	6	22.71	22.65	22.58	0-1	1
		12	11	22.75	22.63	22.62	0-1	1
		25	0	22.81	22.74	22.74	0-1	1
	16QAM	1	0	22.72	22.94	22.79	0-1	1
		1	12	22.58	22.48	22.59	0-1	1
		1	24	22.61	22.58	22.64	0-1	1
		12	0	21.75	21.64	21.56	0-2	2
		12	6	21.69	21.59	21.53	0-2	2
		12	11	21.70	21.58	21.52	0-2	2
		25	0	21.74	21.66	21.62	0-2	2
	64QAM	1	0	21.90	21.80	21.59	0-2	2
		1	12	21.84	21.78	21.59	0-2	2
		1	24	21.77	21.57	21.57	0-2	2
		12	0	20.61	20.53	20.46	0-3	3
		12	6	20.56	20.56	20.48	0-3	3
		12	11	20.57	20.49	20.46	0-3	3
		25	0	20.71	20.65	20.58	0-3	3
	256QAM	1	0	19.89	19.74	19.67	0-5	4
		1	12	19.76	19.46	19.61	0-5	4
		1	24	19.78	19.56	19.65	0-5	4
		12	0	18.61	18.57	18.43	0-5	5
		12	6	18.60	18.49	18.46	0-5	5
		12	11	18.58	18.44	18.46	0-5	5
		25	0	18.71	18.62	18.60	0-5	5

LTE Band 14 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm] 23330 Ch. 793 ㎒	MPR Allowed Per 3GPP [dB]	MPR [dB]
10 MHz	QPSK	1	0	23.63	0	0
		1	24	23.51	0	0
		1	49	23.45	0	0
		25	0	22.80	0-1	1
		25	12	22.78	0-1	1
		25	24	22.77	0-1	1
		50	0	22.83	0-1	1
	16QAM	1	0	22.81	0-1	1
		1	24	22.63	0-1	1
		1	49	22.53	0-1	1
		25	0	21.71	0-2	2
		25	12	21.70	0-2	2
		25	24	21.66	0-2	2
		50	0	21.74	0-2	2
	64QAM	1	0	21.83	0-2	2
		1	24	21.58	0-2	2
		1	49	21.59	0-2	2
		25	0	20.71	0-3	3
		25	12	20.66	0-3	3
		25	24	20.60	0-3	3
		50	0	20.71	0-3	3
	256QAM	1	0	19.81	0-5	4
		1	24	19.80	0-5	4
		1	49	19.57	0-5	4
		25	0	18.65	0-5	5
		25	12	18.62	0-5	5
		25	24	18.60	0-5	5
		50	0	18.69	0-5	5

[LTE Band 25 Conducted Power]

LTE Band 25 _ 1.4 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26047 Ch. 1850.7 ㎒	26365 Ch. 1882.5 ㎒	26683 Ch. 1914.3 ㎒		
1.4 MHz	QPSK	1	0	22.69	22.87	22.62	0	0
		1	3	22.73	22.83	22.72	0	0
		1	5	22.81	22.90	22.74	0	0
		3	0	22.85	22.93	22.97	0	0
		3	1	22.69	22.91	22.99	0	0
		3	3	22.89	22.91	22.52	0	0
		6	0	21.96	22.01	21.93	0-1	1
	16QAM	1	0	22.01	22.10	21.80	0-1	1
		1	3	21.92	22.05	21.55	0-1	1
		1	5	22.08	22.01	21.56	0-1	1
		3	0	21.93	22.02	21.80	0-1	1
		3	1	21.89	21.95	21.85	0-1	1
		3	3	21.91	22.00	21.95	0-1	1
		6	0	21.02	21.04	20.69	0-2	2
	64QAM	1	0	21.03	21.26	20.63	0-2	2
		1	3	21.03	21.10	20.83	0-2	2
		1	5	21.04	21.23	20.86	0-2	2
		3	0	20.99	21.11	20.67	0-2	2
		3	1	21.04	21.04	20.80	0-2	2
		3	3	20.95	20.93	20.75	0-2	2
		6	0	19.98	20.01	20.15	0-3	3
	256QAM	1	0	19.19	19.12	19.26	0-5	4
		1	3	19.05	19.04	19.16	0-5	4
		1	5	19.17	19.04	19.31	0-5	4
		3	0	19.03	19.04	19.29	0-5	4
		3	1	19.08	19.03	19.18	0-5	4
		3	3	19.00	18.99	19.22	0-5	4
		6	0	17.95	18.01	18.24	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	26675Ch. 1913.5 MHz		
3 MHz	QPSK	1	0	22.70	22.89	22.97	0	0
		1	7	22.67	22.84	22.89	0	0
		1	14	22.74	22.73	22.91	0	0
		8	0	21.89	21.96	22.17	0-1	1
		8	3	21.97	22.00	22.16	0-1	1
		8	7	21.99	21.99	22.17	0-1	1
		15	0	21.96	21.97	22.11	0-1	1
	16QAM	1	0	22.19	22.21	21.77	0-1	1
		1	7	22.06	22.21	21.98	0-1	1
		1	14	22.06	22.16	22.30	0-1	1
		8	0	21.05	21.09	20.76	0-2	2
		8	3	20.99	21.06	20.87	0-2	2
		8	7	21.07	21.10	21.02	0-2	2
		15	0	21.01	21.05	20.85	0-2	2
	64QAM	1	0	21.31	21.35	20.61	0-2	2
		1	7	21.32	20.87	20.84	0-2	2
		1	14	21.25	20.90	21.12	0-2	2
		8	0	20.06	20.01	20.05	0-3	3
		8	3	20.07	19.96	20.17	0-3	3
		8	7	20.09	19.99	20.22	0-3	3
		15	0	20.02	20.02	20.25	0-3	3
	256QAM	1	0	19.22	19.06	19.43	0-5	4
		1	7	19.13	19.00	19.43	0-5	4
		1	14	19.16	18.97	19.41	0-5	4
		8	0	17.87	17.85	18.20	0-5	5
		8	3	17.86	17.87	18.11	0-5	5
		8	7	17.87	17.90	18.17	0-5	5
		15	0	17.98	17.98	18.25	0-5	5

LTE Band 25 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26065 Ch. 1852.5 ㎒	26365 Ch. 1882.5 ㎒	26665 Ch. 1912.5 ㎒		
5 MHz	QPSK	1	0	22.56	22.74	22.84	0	0
		1	12	22.62	22.77	22.58	0	0
		1	24	22.76	22.84	23.00	0	0
		12	0	21.89	22.01	21.70	0-1	1
		12	6	21.90	22.00	21.97	0-1	1
		12	11	21.96	21.99	22.00	0-1	1
		25	0	21.96	21.99	22.03	0-1	1
	16QAM	1	0	22.17	22.21	22.37	0-1	1
		1	12	22.27	22.10	21.77	0-1	1
		1	24	22.17	22.13	21.89	0-1	1
		12	0	20.97	21.10	20.80	0-2	2
		12	6	21.05	20.99	20.66	0-2	2
		12	11	21.05	21.07	20.76	0-2	2
		25	0	20.99	21.05	20.80	0-2	2
	64QAM	1	0	21.25	21.27	21.22	0-2	2
		1	12	21.41	21.36	20.66	0-2	2
		1	24	21.12	21.20	21.16	0-2	2
		12	0	20.00	20.04	20.31	0-3	3
		12	6	20.07	20.05	20.19	0-3	3
		12	11	20.05	20.01	20.28	0-3	3
		25	0	19.99	20.02	20.36	0-3	3
	256QAM	1	0	19.22	19.24	19.55	0-5	4
		1	12	19.12	19.25	19.12	0-5	4
		1	24	18.98	19.15	19.32	0-5	4
		12	0	17.92	17.97	18.33	0-5	5
		12	6	17.98	17.96	18.36	0-5	5
		12	11	17.88	17.87	18.31	0-5	5
		25	0	17.96	17.98	18.46	0-5	5

LTE Band 25 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26090 Ch. 1855 ㎒	26365 Ch. 1882.5 ㎒	26640 Ch. 1910 ㎒		
10 MHz	QPSK	1	0	22.90	22.86	23.25	0	0
		1	24	22.98	22.89	22.85	0	0
		1	49	22.98	22.77	22.76	0	0
		25	0	22.14	22.02	22.01	0-1	1
		25	12	22.18	22.02	21.91	0-1	1
		25	24	22.22	21.99	21.89	0-1	1
		50	0	22.24	22.03	21.68	0-1	1
	16QAM	1	0	22.20	22.13	22.59	0-1	1
		1	24	22.30	21.90	21.78	0-1	1
		1	49	21.86	22.08	21.82	0-1	1
		25	0	21.16	21.08	21.25	0-2	2
		25	12	21.21	21.10	20.74	0-2	2
		25	24	21.24	21.05	20.76	0-2	2
		50	0	21.28	21.05	21.09	0-2	2
	64QAM	1	0	21.27	21.32	21.66	0-2	2
		1	24	21.07	21.03	20.76	0-2	2
		1	49	21.28	21.20	20.63	0-2	2
		25	0	20.14	20.06	20.47	0-3	3
		25	12	20.23	20.06	19.83	0-3	3
		25	24	20.28	20.04	19.83	0-3	3
		50	0	20.24	20.10	20.19	0-3	3
	256QAM	1	0	19.18	19.24	19.55	0-5	4
		1	24	19.28	19.29	19.31	0-5	4
		1	49	19.23	19.17	18.91	0-5	4
		25	0	18.12	18.06	18.40	0-5	5
		25	12	18.18	18.01	18.54	0-5	5
		25	24	18.19	18.04	18.13	0-5	5
		50	0	18.10	17.99	18.53	0-5	5

LTE Band 25 _ 15 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26115 Ch. 1857.5 ㎒	26365 Ch. 1882.5 ㎒	26615 Ch. 1907.5 ㎒		
15 MHz	QPSK	1	0	22.69	22.71	23.07	0	0
		1	36	22.98	22.93	23.40	0	0
		1	74	22.70	22.78	22.50	0	0
		36	0	22.03	22.04	22.40	0-1	1
		36	18	22.07	22.04	22.50	0-1	1
		36	39	22.16	22.00	21.32	0-1	1
		75	0	22.10	22.04	22.46	0-1	1
	16QAM	1	0	22.14	22.14	22.38	0-1	1
		1	36	22.22	22.01	22.71	0-1	1
		1	74	21.38	21.91	21.52	0-1	1
		36	0	21.09	21.05	21.44	0-2	2
		36	18	21.15	21.02	21.47	0-2	2
		36	39	21.16	21.01	20.59	0-2	2
		75	0	21.11	21.02	21.45	0-2	2
	64QAM	1	0	20.98	21.32	21.48	0-2	2
		1	36	21.30	21.32	21.63	0-2	2
		1	74	20.87	21.23	20.32	0-2	2
		36	0	20.11	20.16	20.47	0-3	3
		36	18	20.23	20.10	20.56	0-3	3
		36	39	20.22	20.07	20.22	0-3	3
		75	0	20.06	20.03	20.48	0-3	3
	256QAM	1	0	19.03	19.21	19.37	0-5	4
		1	36	19.13	19.15	19.57	0-5	4
		1	74	19.25	19.14	18.99	0-5	4
		36	0	18.04	17.99	18.35	0-5	5
		36	18	18.12	18.03	18.45	0-5	5
		36	39	18.16	17.97	18.54	0-5	5
		75	0	18.06	18.02	18.46	0-5	5

LTE Band 25 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26140 Ch. 1860 ㎒	26365 Ch. 1882.5 ㎒	26590 Ch. 1905 ㎒		
20 MHz	QPSK	1	0	22.64	22.75	23.09	0	0
		1	49	22.95	22.95	23.34	0	0
		1	99	22.48	22.63	22.21	0	0
		50	0	22.04	22.01	22.39	0-1	1
		50	25	22.13	22.01	22.50	0-1	1
		50	49	22.21	21.98	22.11	0-1	1
		100	0	22.09	21.97	22.44	0-1	1
	16QAM	1	0	21.89	22.08	22.23	0-1	1
		1	49	22.14	22.06	22.60	0-1	1
		1	99	21.18	21.97	21.31	0-1	1
		50	0	21.09	21.03	21.45	0-2	2
		50	25	21.17	21.01	21.50	0-2	2
		50	49	21.23	21.02	21.42	0-2	2
		100	0	21.08	20.98	21.42	0-2	2
	64QAM	1	0	21.11	21.10	21.27	0-2	2
		1	49	21.27	21.07	21.61	0-2	2
		1	99	20.66	21.08	20.21	0-2	2
		50	0	20.09	20.08	20.45	0-3	3
		50	25	20.20	20.09	20.53	0-3	3
		50	49	20.21	20.05	20.60	0-3	3
		100	0	20.10	19.98	20.43	0-3	3
	256QAM	1	0	19.10	19.28	19.33	0-5	4
		1	49	19.32	19.18	19.80	0-5	4
		1	99	19.29	19.05	18.95	0-5	4
		50	0	18.01	18.00	18.35	0-5	5
		50	25	18.12	18.04	18.43	0-5	5
		50	49	18.12	17.98	18.50	0-5	5
		100	0	18.09	17.98	18.41	0-5	5

[LTE Band 26 Conducted Power]

LTE Band 26 _ 1.4 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26697 Ch. 814.7 ㎒	26865 Ch. 831.5 ㎒	27033 Ch. 848.3 ㎒		
1.4 MHz	QPSK	1	0	23.89	23.85	22.43	0	0
		1	3	23.81	23.82	22.44	0	0
		1	5	23.75	23.70	22.52	0	0
		3	0	23.11	23.07	22.50	0	0
		3	1	23.07	23.06	22.34	0	0
		3	3	23.04	23.00	22.42	0	0
		6	0	23.13	23.06	21.45	0-1	1
	16QAM	1	0	23.20	23.15	21.74	0-1	1
		1	3	23.01	23.01	21.60	0-1	1
		1	5	23.18	22.98	21.70	0-1	1
		3	0	22.05	21.95	21.55	0-1	1
		3	1	22.01	21.95	21.63	0-1	1
		3	3	22.04	21.97	21.60	0-1	1
		6	0	22.03	21.98	20.47	0-2	2
	64QAM	1	0	22.14	22.13	20.66	0-2	2
		1	3	22.15	21.86	20.45	0-2	2
		1	5	22.15	22.14	20.63	0-2	2
		3	0	20.95	20.99	20.56	0-2	2
		3	1	20.99	20.94	20.53	0-2	2
		3	3	20.98	20.91	20.50	0-2	2
		6	0	21.07	21.01	19.50	0-3	3
	256QAM	1	0	20.03	20.05	18.48	0-5	4
		1	3	20.04	19.75	18.47	0-5	4
		1	5	19.97	19.93	18.45	0-5	4
		3	0	19.00	18.97	18.43	0-5	4
		3	1	18.96	18.90	18.37	0-5	4
		3	3	19.00	18.88	18.41	0-5	4
		6	0	19.03	18.95	17.44	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	23.99	23.75	22.48	0	0
		1	7	23.91	23.72	22.33	0	0
		1	14	23.85	23.60	22.37	0	0
		8	0	23.21	22.97	21.54	0-1	1
		8	3	23.17	22.96	21.57	0-1	1
		8	7	23.14	22.90	21.57	0-1	1
		15	0	23.23	22.96	21.50	0-1	1
	16QAM	1	0	23.30	23.05	21.84	0-1	1
		1	7	23.11	22.91	21.69	0-1	1
		1	14	23.28	22.88	21.83	0-1	1
		8	0	22.15	21.85	20.51	0-2	2
		8	3	22.11	21.85	20.57	0-2	2
		8	7	22.14	21.87	20.59	0-2	2
		15	0	22.13	21.88	20.53	0-2	2
	64QAM	1	0	22.24	22.03	20.78	0-2	2
		1	7	22.25	21.76	20.89	0-2	2
		1	14	22.25	22.04	20.84	0-2	2
		8	0	21.05	20.89	19.51	0-3	3
		8	3	21.09	20.84	19.51	0-3	3
		8	7	21.08	20.81	19.48	0-3	3
		15	0	21.17	20.91	19.52	0-3	3
	256QAM	1	0	20.13	19.95	18.61	0-5	4
		1	7	20.14	19.65	18.63	0-5	4
		1	14	20.07	19.83	18.71	0-5	4
		8	0	19.10	18.87	17.33	0-5	5
		8	3	19.06	18.80	17.34	0-5	5
		8	7	19.10	18.78	17.33	0-5	5
		15	0	19.13	18.85	17.38	0-5	5

LTE Band 26 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26715 Ch. 816.5 ㎒	26865 Ch. 831.5 ㎒	27015 Ch. 846.5 ㎒		
5 MHz	QPSK	1	0	24.15	23.57	22.47	0	0
		1	12	24.08	23.52	22.37	0	0
		1	24	24.19	23.61	22.50	0	0
		12	0	23.33	22.73	21.63	0-1	1
		12	6	23.32	22.72	21.64	0-1	1
		12	11	23.34	22.69	21.64	0-1	1
		25	0	23.44	22.82	21.62	0-1	1
	16QAM	1	0	23.50	22.78	21.65	0-1	1
		1	12	23.40	22.66	21.62	0-1	1
		1	24	23.35	22.85	21.68	0-1	1
		12	0	22.22	21.69	20.63	0-2	2
		12	6	22.27	21.67	20.56	0-2	2
		12	11	22.26	21.70	20.63	0-2	2
		25	0	22.35	21.76	20.62	0-2	2
	64QAM	1	0	22.33	21.82	20.94	0-2	2
		1	12	22.27	21.71	20.68	0-2	2
		1	24	22.26	21.86	20.79	0-2	2
		12	0	21.23	20.61	19.58	0-3	3
		12	6	21.18	20.57	19.52	0-3	3
		12	11	21.25	20.58	19.53	0-3	3
		25	0	21.33	20.71	19.59	0-3	3
	256QAM	1	0	20.26	19.70	18.77	0-5	4
		1	12	20.04	19.65	18.49	0-5	4
		1	24	20.27	19.66	18.53	0-5	4
		12	0	19.09	18.55	17.54	0-5	5
		12	6	19.11	18.53	17.48	0-5	5
		12	11	19.11	18.56	17.48	0-5	5
		25	0	19.29	18.71	17.58	0-5	5

LTE Band 26 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26750 Ch. 820 ㎒	26865 Ch. 831.5 ㎒	26990 Ch. 844 ㎒		
10 MHz	QPSK	1	0	24.09	23.65	22.74	0	0
		1	24	24.01	23.62	22.60	0	0
		1	49	23.95	23.50	22.53	0	0
		25	0	23.31	22.87	21.79	0-1	1
		25	12	23.27	22.86	21.76	0-1	1
		25	24	23.24	22.80	21.77	0-1	1
		50	0	23.33	22.86	21.79	0-1	1
	16QAM	1	0	23.40	22.95	21.90	0-1	1
		1	24	23.21	22.81	21.80	0-1	1
		1	49	23.38	22.78	22.01	0-1	1
		25	0	22.25	21.75	20.79	0-2	2
		25	12	22.21	21.75	20.73	0-2	2
		25	24	22.24	21.77	20.72	0-2	2
		50	0	22.23	21.78	20.79	0-2	2
	64QAM	1	0	22.34	21.93	21.03	0-2	2
		1	24	22.35	21.66	20.97	0-2	2
		1	49	22.35	21.94	20.95	0-2	2
		25	0	21.15	20.79	19.75	0-3	3
		25	12	21.19	20.74	19.78	0-3	3
		25	24	21.18	20.71	19.71	0-3	3
		50	0	21.27	20.81	19.81	0-3	3
	256QAM	1	0	20.23	19.85	18.89	0-5	4
		1	24	20.24	19.55	18.77	0-5	4
		1	49	20.17	19.73	18.72	0-5	4
		25	0	19.20	18.77	17.79	0-5	5
		25	12	19.16	18.70	17.74	0-5	5
		25	24	19.20	18.68	17.74	0-5	5
		50	0	19.23	18.75	17.80	0-5	5

LTE Band 26 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm] 26865 Ch. 831.5 MHz	MPR Allowed Per 3GPP [dB]	MPR [dB]
15 MHz	QPSK	1	0	23.62	0	0
		1	36	23.48	0	0
		1	74	23.54	0	0
		36	0	22.81	0-1	1
		36	18	22.80	0-1	1
		36	39	22.74	0-1	1
		75	0	22.80	0-1	1
	16QAM	1	0	23.02	0-1	1
		1	36	22.67	0-1	1
		1	74	22.81	0-1	1
		36	0	21.74	0-2	2
		36	18	21.70	0-2	2
		36	39	21.69	0-2	2
		75	0	21.76	0-2	2
	64QAM	1	0	22.15	0-2	2
		1	36	21.73	0-2	2
		1	74	21.76	0-2	2
		36	0	20.76	0-3	3
		36	18	20.73	0-3	3
		36	39	20.71	0-3	3
		75	0	20.73	0-3	3
	256QAM	1	0	19.68	0-5	4
		1	36	19.52	0-5	4
		1	74	19.63	0-5	4
		36	0	18.67	0-5	5
		36	18	18.61	0-5	5
		36	39	18.60	0-5	5
		75	0	18.75	0-5	5

[LTE Band 30 Conducted Power]

LTE Band 30 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				27685 Ch. 2307.5 ㎒	27710 Ch. 2310 ㎒	27735 Ch. 2312.5 ㎒		
5 MHz	QPSK	1	0	22.53	22.57	22.56	0	0
		1	12	22.55	22.53	22.54	0	0
		1	24	22.60	22.53	22.44	0	0
		12	0	21.77	21.73	21.76	0-1	1
		12	6	21.77	21.75	21.71	0-1	1
		12	11	21.72	21.75	21.69	0-1	1
		25	0	21.94	21.93	21.85	0-1	1
	16QAM	1	0	21.85	21.97	21.80	0-1	1
		1	12	21.72	21.53	21.55	0-1	1
		1	24	21.66	21.66	21.60	0-1	1
		12	0	20.65	20.67	20.74	0-2	2
		12	6	20.72	20.63	20.56	0-2	2
		12	11	20.71	20.65	20.61	0-2	2
		25	0	20.87	20.80	20.82	0-2	2
	64QAM	1	0	20.81	20.95	20.82	0-2	2
		1	12	20.80	20.90	20.87	0-2	2
		1	24	20.72	20.77	20.72	0-2	2
		12	0	19.58	19.61	19.50	0-3	3
		12	6	19.59	19.54	19.58	0-3	3
		12	11	19.55	19.55	19.53	0-3	3
		25	0	19.79	19.76	19.74	0-3	3
	256QAM	1	0	18.84	18.91	18.70	0-5	5
		1	12	18.68	18.72	18.60	0-5	5
		1	24	18.67	18.75	18.57	0-5	5
		12	0	17.65	17.63	17.64	0-5	5
		12	6	17.58	17.61	17.56	0-5	5
		12	11	17.59	17.52	17.50	0-5	5
		25	0	17.73	17.77	17.71	0-5	5

LTE Band 30 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm] 27710 Ch. 2310 ㎒	MPR Allowed Per 3GPP [dB]	MPR [dB]
10 MHz	QPSK	1	0	22.65	0	0
		1	24	22.64	0	0
		1	49	22.33	0	0
		25	0	21.97	0-1	1
		25	12	21.89	0-1	1
		25	24	21.83	0-1	1
		50	0	21.88	0-1	1
	16QAM	1	0	21.91	0-1	1
		1	24	21.68	0-1	1
		1	49	21.55	0-1	1
		25	0	20.91	0-2	2
		25	12	20.84	0-2	2
		25	24	20.72	0-2	2
		50	0	20.88	0-2	2
	64QAM	1	0	20.73	0-2	2
		1	24	20.74	0-2	2
		1	49	20.64	0-2	2
		25	0	19.87	0-3	3
		25	12	19.84	0-3	3
		25	24	19.73	0-3	3
		50	0	19.86	0-3	3
	256QAM	1	0	18.81	0-5	5
		1	24	18.77	0-5	5
		1	49	18.66	0-5	5
		25	0	17.85	0-5	5
		25	12	17.82	0-5	5
		25	24	17.71	0-5	5
		50	0	17.85	0-5	5

[LTE TDD Band 38 Conducted Power]

LTE Band 38 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				37775 Ch. 2572.5 ㎒	38000 Ch. 2595 ㎒	38225 Ch. 2617.5 ㎒		
5 MHz	QPSK	1	0	23.44	23.51	23.24	0	0
		1	12	23.45	23.60	23.25	0	0
		1	24	23.60	23.61	23.42	0	0
		12	0	22.79	22.80	22.59	0-1	1
		12	6	22.81	22.83	22.63	0-1	1
		12	11	22.85	22.81	22.65	0-1	1
		25	0	22.83	22.90	22.69	0-1	1
	16QAM	1	0	22.85	22.75	22.71	0-1	1
		1	12	22.93	22.64	22.70	0-1	1
		1	24	22.83	22.72	22.74	0-1	1
		12	0	21.77	21.79	21.66	0-2	2
		12	6	21.81	21.77	21.63	0-2	2
		12	11	21.77	21.77	21.61	0-2	2
		25	0	21.81	21.80	21.66	0-2	2
	64QAM	1	0	21.99	21.74	21.79	0-2	2
		1	12	21.98	21.78	21.73	0-2	2
		1	24	21.97	21.73	21.75	0-2	2
		12	0	20.83	20.76	20.60	0-3	3
		12	6	20.83	20.74	20.60	0-3	3
		12	11	20.82	20.73	20.59	0-3	3
		25	0	20.80	20.78	20.63	0-3	3
	256QAM	1	0	19.40	19.41	19.18	0-5	4
		1	12	19.46	19.43	19.12	0-5	4
		1	24	19.38	19.32	19.08	0-5	4
		12	0	18.44	18.37	18.21	0-5	5
		12	6	18.41	18.35	18.21	0-5	5
		12	11	18.37	18.29	18.16	0-5	5
		25	0	18.59	18.59	18.45	0-5	5

LTE Band 38 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				37800 Ch. 2575 ㎒	38000 Ch. 2595 ㎒	38200 Ch. 2615 ㎒		
10 MHz	QPSK	1	0	23.57	23.65	23.39	0	0
		1	24	23.61	23.67	23.43	0	0
		1	49	23.51	23.55	23.36	0	0
		25	0	22.83	22.85	22.61	0-1	1
		25	12	22.86	22.85	22.63	0-1	1
		25	24	22.84	22.85	22.63	0-1	1
		50	0	22.90	22.90	22.68	0-1	1
	16QAM	1	0	22.81	22.90	22.66	0-1	1
		1	24	22.64	22.73	22.43	0-1	1
		1	49	22.80	22.84	22.62	0-1	1
		25	0	21.87	21.85	21.65	0-2	2
		25	12	21.82	21.79	21.62	0-2	2
		25	24	21.79	21.79	21.61	0-2	2
		50	0	21.88	21.90	21.67	0-2	2
	64QAM	1	0	21.97	21.96	21.73	0-2	2
		1	24	21.96	21.83	21.67	0-2	2
		1	49	21.87	21.75	21.67	0-2	2
		25	0	20.85	20.81	20.60	0-3	3
		25	12	20.80	20.76	20.60	0-3	3
		25	24	20.78	20.73	20.58	0-3	3
		50	0	20.87	20.84	20.66	0-3	3
	256QAM	1	0	19.39	19.35	19.15	0-5	4
		1	24	19.36	19.25	19.12	0-5	4
		1	49	19.23	19.19	19.05	0-5	4
		25	0	18.71	18.69	18.50	0-5	5
		25	12	18.70	18.67	18.47	0-5	5
		25	24	18.64	18.61	18.46	0-5	5
		50	0	18.72	18.69	18.53	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	23.50	23.58	23.31	0	0
		1	36	23.59	23.49	23.28	0	0
		1	74	23.53	23.57	23.38	0	0
		36	0	22.86	22.86	22.63	0-1	1
		36	18	22.86	22.86	22.64	0-1	1
		36	39	22.83	22.82	22.64	0-1	1
		75	0	22.85	22.85	22.68	0-1	1
	16QAM	1	0	22.80	22.90	22.76	0-1	1
		1	36	22.63	22.80	22.61	0-1	1
		1	74	22.67	22.86	22.65	0-1	1
		36	0	21.90	21.85	21.69	0-2	2
		36	18	21.86	21.81	21.65	0-2	2
		36	39	21.83	21.77	21.63	0-2	2
		75	0	21.86	21.80	21.67	0-2	2
	64QAM	1	0	21.92	21.94	21.76	0-2	2
		1	36	21.94	21.95	21.83	0-2	2
		1	74	21.78	21.85	21.70	0-2	2
		36	0	20.90	20.84	20.66	0-3	3
		36	18	20.86	20.82	20.64	0-3	3
		36	39	20.79	20.78	20.61	0-3	3
		75	0	20.80	20.75	20.60	0-3	3
	256QAM	1	0	19.37	19.30	19.16	0-5	4
		1	36	19.24	19.23	19.04	0-5	4
		1	74	19.20	19.18	19.03	0-5	4
		36	0	18.61	18.54	18.38	0-5	5
		36	18	18.55	18.52	18.35	0-5	5
		36	39	18.51	18.47	18.34	0-5	5
		75	0	18.65	18.67	18.46	0-5	5

LTE Band 38 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				37850 ch. 2580 ㎒	38000 Ch. 2595 ㎒	38150 ch. 2610 ㎒		
20 MHz	QPSK	1	0	23.73	23.68	23.49	0	0
		1	49	23.70	23.68	23.51	0	0
		1	99	23.52	23.53	23.39	0	0
		50	0	22.96	22.92	22.74	0-1	1
		50	25	22.91	22.90	22.72	0-1	1
		50	49	22.84	22.87	22.70	0-1	1
		100	0	22.88	22.89	22.72	0-1	1
	16QAM	1	0	22.81	22.92	22.75	0-1	1
		1	49	22.72	22.84	22.61	0-1	1
		1	99	22.77	22.78	22.58	0-1	1
		50	0	21.95	21.96	21.79	0-2	2
		50	25	21.90	21.93	21.75	0-2	2
		50	49	21.84	21.84	21.69	0-2	2
		100	0	21.89	21.89	21.73	0-2	2
	64QAM	1	0	21.95	21.94	21.71	0-2	2
		1	49	21.82	21.81	21.53	0-2	2
		1	99	21.76	21.72	21.62	0-2	2
		50	0	20.96	20.94	20.77	0-3	3
		50	25	20.91	20.89	20.72	0-3	3
		50	49	20.85	20.84	20.69	0-3	3
		100	0	20.81	20.78	20.61	0-3	3
	256QAM	1	0	19.49	19.39	19.27	0-5	4
		1	49	19.43	19.35	19.21	0-5	4
		1	99	19.25	19.25	19.09	0-5	4
		50	0	18.82	18.79	18.64	0-5	5
		50	25	18.75	18.74	18.59	0-5	5
		50	49	18.70	18.68	18.56	0-5	5
		100	0	18.67	18.70	18.52	0-5	5

[LTE Band 40 Low Side (MCC310) Conducted Power]
LTE Band 40 Low Sdie (MCC310) _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				38725 Ch. 2307.5 ㎒	38750 Ch. 2310 ㎒	38775 Ch. 2312.5 ㎒		
5 MHz	QPSK	1	0	8.71	8.74	8.67	0	0
		1	12	8.81	8.83	8.73	0	0
		1	24	8.77	8.75	8.71	0	0
		12	0	8.87	8.87	8.88	0-1	0
		12	6	8.87	8.87	8.87	0-1	0
		12	11	8.89	8.86	8.86	0-1	0
		25	0	8.92	8.91	8.90	0-1	0
	16QAM	1	0	8.69	8.89	8.86	0-1	0
		1	12	8.76	8.94	8.89	0-1	0
		1	24	8.52	8.75	8.77	0-1	0
		12	0	8.82	8.81	8.85	0-2	0
		12	6	8.86	8.81	8.80	0-2	0
		12	11	8.84	8.83	8.83	0-2	0
		25	0	8.87	8.93	8.89	0-2	0
	64QAM	1	0	8.75	8.61	8.85	0-2	0
		1	12	8.69	8.71	8.69	0-2	0
		1	24	8.72	8.60	8.91	0-2	0
		12	0	8.65	8.65	8.67	0-3	0
		12	6	8.66	8.65	8.67	0-3	0
		12	11	8.64	8.67	8.67	0-3	0
		25	0	8.74	8.72	8.70	0-3	0
	256QAM	1	0	8.56	8.58	8.47	0-5	0
		1	12	8.60	8.56	8.40	0-5	0
		1	24	8.60	8.53	8.47	0-5	0
		12	0	8.56	8.55	8.54	0-5	0
		12	6	8.57	8.58	8.53	0-5	0
		12	11	8.53	8.56	8.52	0-5	0
		25	0	8.69	8.66	8.70	0-5	0

LTE Band 40 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm] 38750 Ch. 2310 ㎒	MPR Allowed Per 3GPP [dB]	MPR [dB]
10 MHz	QPSK	1	0	8.81	0	0
		1	24	8.74	0	0
		1	49	8.75	0	0
		25	0	8.86	0-1	0
		25	12	8.87	0-1	0
		25	24	8.86	0-1	0
		50	0	8.91	0-1	0
	16QAM	1	0	8.89	0-1	0
		1	24	8.94	0-1	0
		1	49	8.75	0-1	0
		25	0	8.81	0-2	0
		25	12	8.81	0-2	0
		25	24	8.83	0-2	0
		50	0	8.93	0-2	0
	64QAM	1	0	8.81	0-2	0
		1	24	8.91	0-2	0
		1	49	8.80	0-2	0
		25	0	8.85	0-3	0
		25	12	8.85	0-3	0
		25	24	8.87	0-3	0
		50	0	8.92	0-3	0
	256QAM	1	0	8.48	0-5	0
		1	24	8.46	0-5	0
		1	49	8.43	0-5	0
		25	0	8.45	0-5	0
		25	12	8.48	0-5	0
		25	24	8.46	0-5	0
		50	0	8.56	0-5	0

[LTE Band 40 Upper Side (MCC310) Conducted Power]
LTE Band 40 Upper Side (MCC310) _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				39175 Ch. 2352.5 ㎒	39200 Ch. 2355 ㎒	39225 Ch. 2357.5 ㎒		
5 MHz	QPSK	1	0	8.71	8.79	8.76	0	0
		1	12	8.88	8.88	8.89	0	0
		1	24	8.75	8.77	8.74	0	0
		12	0	8.66	8.62	8.61	0-1	0
		12	6	8.65	8.61	8.60	0-1	0
		12	11	8.64	8.61	8.61	0-1	0
		25	0	8.65	8.65	8.63	0-1	0
	16QAM	1	0	8.67	8.52	8.67	0-1	0
		1	12	8.79	8.50	8.74	0-1	0
		1	24	8.72	8.43	8.58	0-1	0
		12	0	8.63	8.58	8.57	0-2	0
		12	6	8.66	8.56	8.60	0-2	0
		12	11	8.66	8.60	8.59	0-2	0
		25	0	8.65	8.63	8.64	0-2	0
	64QAM	1	0	8.56	8.57	8.60	0-2	0
		1	12	8.40	8.62	8.61	0-2	0
		1	24	8.50	8.50	8.55	0-2	0
		12	0	8.48	8.37	8.43	0-3	0
		12	6	8.52	8.39	8.42	0-3	0
		12	11	8.50	8.41	8.41	0-3	0
		25	0	8.51	8.47	8.47	0-3	0
	256QAM	1	0	8.51	8.48	8.63	0-5	0
		1	12	8.64	8.43	8.57	0-5	0
		1	24	8.60	8.46	8.61	0-5	0
		12	0	8.61	8.53	8.52	0-5	0
		12	6	8.59	8.53	8.52	0-5	0
		12	11	8.58	8.51	8.51	0-5	0
		25	0	8.70	8.62	8.59	0-5	0

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

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm] 39200Ch. 2355 ㎒	MPR Allowed Per 3GPP [dB]	MPR [dB]
10 MHz	QPSK	1	0	8.54	0	0
		1	24	8.45	0	0
		1	49	8.30	0	0
		25	0	8.26	0-1	0
		25	12	8.25	0-1	0
		25	24	8.25	0-1	0
		50	0	8.25	0-1	0
	16QAM	1	0	8.28	0-1	0
		1	24	8.26	0-1	0
		1	49	8.14	0-1	0
		25	0	8.26	0-2	0
		25	12	8.24	0-2	0
		25	24	8.21	0-2	0
		50	0	8.26	0-2	0
	64QAM	1	0	8.48	0-2	0
		1	24	8.51	0-2	0
		1	49	8.44	0-2	0
		25	0	8.30	0-3	0
		25	12	8.29	0-3	0
		25	24	8.24	0-3	0
		50	0	8.40	0-3	0
	256QAM	1	0	8.55	0-5	0
		1	24	8.58	0-5	0
		1	49	8.51	0-5	0
		25	0	8.80	0-5	0
		25	12	8.76	0-5	0
		25	24	8.74	0-5	0
		50	0	8.81	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	22.77	23.15	23.28	23.39	22.91	0	0
		1	12	22.75	22.98	23.17	23.40	22.94	0	0
		1	24	22.77	23.07	23.27	23.23	22.89	0	0
		12	0	21.88	22.20	22.43	22.33	22.06	0-1	1
		12	6	21.86	22.19	22.42	22.27	22.07	0-1	1
		12	11	21.88	22.18	22.40	22.28	22.03	0-1	1
		25	0	21.88	22.16	22.44	22.27	22.04	0-1	1
	16QAM	1	0	21.86	22.22	22.57	22.29	22.09	0-1	1
		1	12	21.90	22.17	22.39	22.13	22.00	0-1	1
		1	24	21.83	22.15	22.48	22.05	22.07	0-1	1
		12	0	20.86	21.14	21.36	21.25	20.97	0-2	2
		12	6	20.88	21.17	21.34	21.25	20.96	0-2	2
		12	11	20.88	21.11	21.38	21.26	20.99	0-2	2
		25	0	20.91	21.17	21.37	21.20	20.98	0-2	2
	64QAM	1	0	20.62	21.24	21.57	21.34	21.02	0-2	2
		1	12	20.61	21.24	21.53	21.36	21.04	0-2	2
		1	24	20.73	21.25	21.47	21.34	21.11	0-2	2
		12	0	19.92	20.26	20.44	20.24	20.02	0-3	3
		12	6	19.92	20.28	20.43	20.31	20.04	0-3	3
		12	11	19.93	20.30	20.44	20.28	20.05	0-3	3
		25	0	19.94	20.19	20.44	20.32	20.03	0-3	3
	256QAM	1	0	18.75	18.95	19.21	18.89	18.77	0-5	4
		1	12	18.54	18.85	19.14	18.89	18.79	0-5	4
		1	24	18.73	19.05	19.22	18.97	18.81	0-5	4
		12	0	17.87	18.16	18.28	18.22	17.95	0-5	5
		12	6	17.88	18.17	18.27	18.21	17.93	0-5	5
		12	11	17.87	18.13	18.31	18.23	17.95	0-5	5
		25	0	18.03	18.34	18.58	18.41	18.20	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	22.85	23.20	23.41	23.24	23.07	0	0
		1	24	22.75	23.08	23.27	23.16	22.90	0	0
		1	49	22.71	22.98	23.21	23.05	22.81	0	0
		25	0	21.91	22.23	22.48	22.29	22.09	0-1	1
		25	12	21.87	22.18	22.43	22.22	22.09	0-1	1
		25	24	21.90	22.16	22.42	22.25	22.05	0-1	1
		50	0	21.88	22.18	22.44	22.26	22.06	0-1	1
	16QAM	1	0	21.72	22.12	22.31	22.23	21.94	0-1	1
		1	24	21.67	22.03	22.12	22.09	21.79	0-1	1
		1	49	21.90	21.99	22.25	22.16	21.83	0-1	1
		25	0	20.86	21.16	21.38	21.24	21.02	0-2	2
		25	12	20.87	21.13	21.36	21.26	21.05	0-2	2
		25	24	20.89	21.12	21.36	21.22	21.00	0-2	2
		50	0	20.92	21.19	21.47	21.29	21.04	0-2	2
	64QAM	1	0	20.95	21.24	21.45	21.26	21.23	0-2	2
		1	24	20.98	21.25	21.40	21.34	21.19	0-2	2
		1	49	20.99	21.10	21.35	21.24	21.10	0-2	2
		25	0	19.88	20.23	20.45	20.31	20.02	0-3	3
		25	12	19.91	20.24	20.44	20.32	20.01	0-3	3
		25	24	19.91	20.21	20.43	20.27	19.99	0-3	3
		50	0	20.00	20.30	20.58	20.37	20.10	0-3	3
	256QAM	1	0	18.68	18.99	19.23	19.11	18.88	0-5	4
		1	24	18.59	18.91	19.11	19.01	18.86	0-5	4
		1	49	18.58	18.92	19.17	19.03	18.83	0-5	4
		25	0	18.05	18.35	18.59	18.44	18.19	0-5	5
		25	12	18.09	18.34	18.59	18.45	18.23	0-5	5
		25	24	18.04	18.31	18.58	18.42	18.18	0-5	5
		50	0	18.15	18.42	18.64	18.54	18.29	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	22.92	23.11	23.33	23.15	22.99	0	0
		1	36	22.69	22.96	23.26	23.15	22.93	0	0
		1	74	22.78	22.99	23.22	23.08	22.84	0	0
		36	0	21.92	22.21	22.49	22.29	22.10	0-1	1
		36	18	21.87	22.19	22.42	22.23	22.07	0-1	1
		36	39	21.89	22.13	22.39	22.23	22.03	0-1	1
		75	0	21.88	22.15	22.41	22.25	22.03	0-1	1
	16QAM	1	0	21.86	22.28	22.48	22.24	22.10	0-1	1
		1	36	21.77	22.06	22.26	22.13	21.84	0-1	1
		1	74	21.91	22.18	22.25	22.20	21.87	0-1	1
		36	0	20.85	21.17	21.42	21.27	21.05	0-2	2
		36	18	20.84	21.17	21.40	21.26	21.00	0-2	2
		36	39	20.86	21.15	21.38	21.25	20.99	0-2	2
		75	0	20.92	21.17	21.44	21.27	21.03	0-2	2
	64QAM	1	0	20.97	21.34	21.52	21.44	21.16	0-2	2
		1	36	21.06	21.22	21.46	21.32	21.05	0-2	2
		1	74	20.91	21.18	21.42	21.35	20.97	0-2	2
		36	0	19.98	20.31	20.50	20.34	20.06	0-3	3
		36	18	19.97	20.28	20.46	20.38	20.07	0-3	3
		36	39	19.98	20.27	20.45	20.34	20.05	0-3	3
		75	0	19.97	20.23	20.50	20.30	20.09	0-3	3
	256QAM	1	0	18.65	19.00	19.18	19.17	18.85	0-5	4
		1	36	18.63	18.91	18.98	19.05	18.74	0-5	4
		1	74	18.68	18.99	19.03	19.09	18.72	0-5	4
		36	0	17.98	18.26	18.45	18.31	18.07	0-5	5
		36	18	17.97	18.24	18.45	18.29	18.06	0-5	5
		36	39	17.95	18.22	18.42	18.30	18.04	0-5	5
		75	0	18.03	18.31	18.62	18.44	18.19	0-5	5

LTE Band 41 _ 20 ㎒ 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 ㎒	40185 Ch. 2549.5 ㎒	40620 Ch. 2593.0 ㎒	41055 Ch. 2636.5 ㎒	41490 Ch. 2680.0 ㎒		
20 MHz	QPSK	1	0	22.93	23.14	23.43	23.26	23.08	0	0
		1	49	22.81	23.03	23.29	23.12	22.94	0	0
		1	99	22.72	22.89	23.16	23.03	22.78	0	0
		50	0	21.97	22.23	22.50	22.30	22.13	0-1	1
		50	25	21.92	22.22	22.48	22.28	22.10	0-1	1
		50	49	21.92	22.16	22.43	22.24	22.05	0-1	1
		100	0	21.89	22.13	22.44	22.22	22.04	0-1	1
	16QAM	1	0	21.89	22.08	22.42	22.36	22.17	0-1	1
		1	49	21.87	21.94	22.25	22.25	21.90	0-1	1
		1	99	21.87	21.93	22.20	22.28	21.89	0-1	1
		50	0	20.90	21.20	21.50	21.29	21.08	0-2	2
		50	25	20.90	21.19	21.49	21.26	21.06	0-2	2
		50	49	20.89	21.17	21.41	21.26	20.98	0-2	2
		100	0	20.94	21.21	21.47	21.29	21.04	0-2	2
	64QAM	1	0	20.82	21.39	21.46	21.64	21.15	0-2	2
		1	49	20.90	21.27	21.45	21.59	21.08	0-2	2
		1	99	20.85	21.16	21.22	21.44	20.89	0-2	2
		50	0	19.98	20.32	20.60	20.39	20.13	0-3	3
		50	25	20.01	20.29	20.57	20.38	20.09	0-3	3
		50	49	20.00	20.27	20.53	20.34	20.07	0-3	3
		100	0	19.94	20.25	20.49	20.31	20.04	0-3	3
	256QAM	1	0	18.68	19.04	19.25	19.04	18.88	0-5	4
		1	49	18.56	18.98	19.15	19.07	18.88	0-5	4
		1	99	18.51	18.93	19.09	18.97	18.79	0-5	4
		50	0	18.17	18.47	18.69	18.54	18.29	0-5	5
		50	25	18.16	18.45	18.66	18.49	18.27	0-5	5
		50	49	18.15	18.43	18.59	18.48	18.24	0-5	5
		100	0	18.05	18.36	18.63	18.44	18.21	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 ㎒ 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 ㎒	40185 Ch. 2549.5 ㎒	40620 Ch. 2593.0 ㎒	41055 Ch. 2636.5 ㎒	41490 Ch. 2680.0 ㎒		
5 MHz	QPSK	1	0	25.47	25.90	26.08	25.87	25.63	0	0
		1	12	25.60	25.87	26.06	25.90	25.54	0	0
		1	24	25.47	25.81	26.00	25.83	25.48	0	0
		12	0	24.29	24.63	24.89	24.68	24.42	0-1	1
		12	6	24.31	24.63	24.88	24.68	24.39	0-1	1
		12	11	24.32	24.61	24.84	24.64	24.40	0-1	1
		25	0	24.32	24.64	24.88	24.68	24.41	0-1	1
	16QAM	1	0	24.34	24.58	25.05	24.66	24.42	0-1	1
		1	12	24.46	24.52	25.05	25.01	24.38	0-1	1
		1	24	24.41	24.56	25.07	24.90	24.34	0-1	1
		12	0	23.28	23.55	23.90	23.62	23.33	0-2	2
		12	6	23.28	23.56	23.94	23.68	23.34	0-2	2
		12	11	23.27	23.55	23.89	23.68	23.32	0-2	2
		25	0	23.37	23.58	23.87	23.63	23.43	0-2	2
	64QAM	1	0	23.90	24.12	24.15	23.79	23.77	0-2	2
		1	12	23.76	24.15	24.12	23.71	23.75	0-2	2
		1	24	23.96	24.03	24.16	23.85	23.88	0-2	2
		12	0	22.41	22.77	22.95	22.85	22.46	0-3	3
		12	6	22.39	22.70	22.95	22.82	22.43	0-3	3
		12	11	22.41	22.76	22.96	22.84	22.45	0-3	3
		25	0	22.34	22.67	22.90	22.79	22.48	0-3	3
	256QAM	1	0	21.17	21.69	21.66	21.77	21.51	0-5	4
		1	12	21.14	21.54	21.72	21.24	21.47	0-5	4
		1	24	21.13	21.66	21.69	21.78	21.54	0-5	4
		12	0	20.50	20.83	20.92	20.82	20.49	0-5	5
		12	6	20.52	20.86	20.96	20.87	20.51	0-5	5
		12	11	20.53	20.89	20.92	20.86	20.51	0-5	5
		25	0	20.51	20.81	20.86	20.85	20.47	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	25.61	26.03	26.02	26.07	25.79	0	0
		1	24	25.33	25.60	25.82	25.99	25.36	0	0
		1	49	25.57	25.82	26.03	25.85	25.49	0	0
		25	0	24.40	24.68	24.95	24.75	24.47	0-1	1
		25	12	24.35	24.65	24.89	24.73	24.44	0-1	1
		25	24	24.36	24.62	24.87	24.69	24.38	0-1	1
		50	0	24.43	24.71	25.03	24.79	24.51	0-1	1
	16QAM	1	0	24.41	24.38	25.23	24.84	24.39	0-1	1
		1	24	24.44	24.26	25.23	24.73	24.43	0-1	1
		1	49	24.44	24.25	25.16	24.82	24.21	0-1	1
		25	0	23.38	23.78	23.98	23.70	23.44	0-2	2
		25	12	23.35	23.74	23.90	23.72	23.39	0-2	2
		25	24	23.38	23.72	23.89	23.72	23.37	0-2	2
		50	0	23.39	23.70	23.99	23.75	23.47	0-2	2
	64QAM	1	0	23.75	24.12	23.93	23.80	23.59	0-2	2
		1	24	23.85	23.82	23.98	23.59	23.56	0-2	2
		1	49	23.74	23.91	23.79	23.94	23.49	0-2	2
		25	0	22.32	22.75	22.92	22.78	22.47	0-3	3
		25	12	22.34	22.75	22.90	22.77	22.41	0-3	3
		25	24	22.35	22.73	22.91	22.74	22.37	0-3	3
		50	0	22.39	22.76	22.96	22.77	22.49	0-3	3
	256QAM	1	0	21.25	21.74	21.94	21.78	21.49	0-5	4
		1	24	21.16	21.80	22.05	21.81	21.81	0-5	4
		1	49	21.24	21.71	22.05	21.69	21.59	0-5	4
		25	0	20.49	20.80	20.85	20.81	20.54	0-5	5
		25	12	20.46	20.78	20.82	20.77	20.55	0-5	5
		25	24	20.46	20.76	20.80	20.77	20.53	0-5	5
		50	0	20.62	20.95	21.18	21.03	20.72	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	25.69	25.94	26.17	26.04	25.78	0	0
		1	36	25.47	25.70	25.94	26.06	25.74	0	0
		1	74	25.62	25.77	26.01	25.91	25.50	0	0
		36	0	24.46	24.74	25.06	24.83	24.61	0-1	1
		36	18	24.45	24.69	25.02	24.78	24.58	0-1	1
		36	39	24.45	24.66	25.00	24.76	24.53	0-1	1
		75	0	24.43	24.70	24.99	24.74	24.54	0-1	1
	16QAM	1	0	24.39	24.92	25.22	25.07	24.71	0-1	1
		1	36	24.47	24.86	25.19	24.75	24.76	0-1	1
		1	74	24.44	24.78	25.22	25.07	24.50	0-1	1
		36	0	23.42	23.73	23.99	23.79	23.54	0-2	2
		36	18	23.43	23.71	23.98	23.78	23.52	0-2	2
		36	39	23.45	23.68	23.95	23.75	23.47	0-2	2
		75	0	23.40	23.65	23.96	23.73	23.52	0-2	2
	64QAM	1	0	23.65	23.94	23.75	23.88	23.98	0-2	2
		1	36	23.20	23.78	23.26	23.41	23.75	0-2	2
		1	74	23.87	23.87	23.84	23.75	23.79	0-2	2
		36	0	22.35	22.64	22.96	22.76	22.52	0-3	3
		36	18	22.38	22.67	22.95	22.74	22.50	0-3	3
		36	39	22.39	22.63	22.93	22.75	22.45	0-3	3
		75	0	22.45	22.72	23.00	22.80	22.55	0-3	3
	256QAM	1	0	21.57	21.71	22.17	21.89	21.73	0-5	4
		1	36	21.16	21.36	21.81	21.55	21.38	0-5	4
		1	74	21.42	21.67	22.07	21.79	21.72	0-5	4
		36	0	20.57	20.88	21.06	20.90	20.71	0-5	5
		36	18	20.58	20.86	21.05	20.91	20.69	0-5	5
		36	39	20.57	20.86	21.02	20.90	20.66	0-5	5
		75	0	20.49	20.77	20.96	20.84	20.62	0-5	5

LTE Band 41 _ 20 ㎒ 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 ㎒	40185 Ch. 2549.5 ㎒	40620 Ch. 2593.0 ㎒	41055 Ch. 2636.5 ㎒	41490 Ch. 2680.0 ㎒		
20 MHz	QPSK	1	0	25.66	26.00	26.12	25.99	25.76	0	0
		1	49	25.28	25.60	25.75	25.61	25.41	0	0
		1	99	25.57	25.78	25.94	25.83	25.42	0	0
		50	0	24.47	24.77	25.08	24.80	24.66	0-1	1
		50	25	24.46	24.71	25.02	24.76	24.60	0-1	1
		50	49	24.44	24.68	24.99	24.77	24.54	0-1	1
		100	0	24.46	24.72	25.04	24.81	24.58	0-1	1
	16QAM	1	0	24.48	24.94	24.91	24.97	24.70	0-1	1
		1	49	24.50	24.86	24.99	24.93	24.67	0-1	1
		1	99	24.55	24.75	24.91	24.86	24.43	0-1	1
		50	0	23.41	23.67	23.98	23.77	23.52	0-2	2
		50	25	23.40	23.70	23.97	23.78	23.57	0-2	2
		50	49	23.38	23.65	23.92	23.77	23.45	0-2	2
		100	0	23.47	23.69	23.98	23.79	23.55	0-2	2
	64QAM	1	0	23.63	24.05	24.09	24.11	24.02	0-2	2
		1	49	23.69	23.92	24.05	24.11	23.94	0-2	2
		1	99	23.62	23.78	23.86	23.98	23.68	0-2	2
		50	0	22.46	22.72	22.99	22.83	22.59	0-3	3
		50	25	22.43	22.70	22.96	22.79	22.56	0-3	3
		50	49	22.43	22.66	22.91	22.80	22.50	0-3	3
		100	0	22.42	22.70	22.98	22.77	22.54	0-3	3
	256QAM	1	0	21.34	21.84	21.77	21.93	21.76	0-5	4
		1	49	21.22	21.90	21.64	21.84	21.64	0-5	4
		1	99	21.26	21.80	21.60	21.81	21.62	0-5	4
		50	0	20.61	20.95	21.21	21.01	20.78	0-5	5
		50	25	20.60	20.95	21.19	21.01	20.75	0-5	5
		50	49	20.62	20.93	21.16	20.96	20.71	0-5	5
		100	0	20.61	20.90	21.13	20.95	20.69	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 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55265 Ch. 3552.5 ㎒	55748 Ch. 3600.8 ㎒	56232 Ch. 3649.2 ㎒	56715 Ch. 3697.5 ㎒		
5 MHz	QPSK	1	0	20.83	20.63	20.99	21.66	0	0
		1	12	21.10	20.78	21.16	21.77	0	0
		1	24	20.90	20.68	21.01	21.72	0	0
		12	0	19.90	19.70	20.00	20.73	0-1	1
		12	6	19.92	19.71	20.02	20.76	0-1	1
		12	11	19.91	19.70	20.02	20.80	0-1	1
		25	0	19.94	19.74	20.04	20.76	0-1	1
	16QAM	1	0	19.92	19.68	19.85	20.73	0-1	1
		1	12	20.10	19.58	19.81	20.71	0-1	1
		1	24	19.94	19.63	19.86	20.74	0-1	1
		12	0	18.85	18.71	19.02	19.76	0-2	2
		12	6	18.88	18.74	19.03	19.76	0-2	2
		12	11	18.87	18.72	19.01	19.76	0-2	2
		25	0	18.96	18.75	19.07	19.80	0-2	2
	64QAM	1	0	18.74	18.64	19.04	19.79	0-2	2
		1	12	18.87	18.73	19.19	19.91	0-2	2
		1	24	18.71	18.67	19.07	19.78	0-2	2
		12	0	17.84	17.66	18.00	18.73	0-3	3
		12	6	17.87	17.67	18.00	18.72	0-3	3
		12	11	17.90	17.66	17.99	18.73	0-3	3
		25	0	17.90	17.72	18.06	18.80	0-3	3
	256QAM	1	0	16.60	16.41	16.78	17.52	0-5	4
		1	12	16.68	16.31	16.87	17.56	0-5	4
		1	24	16.60	16.37	16.74	17.57	0-5	4
		12	0	15.91	15.70	16.02	16.79	0-5	5
		12	6	15.89	15.71	16.02	16.81	0-5	5
		12	11	15.87	15.68	16.01	16.78	0-5	5
		25	0	15.98	15.78	16.09	16.87	0-5	5

LTE Band 48 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55290Ch. 3555 ㎒	55757 Ch. 3601.7 ㎒	56223 Ch. 3648.3 ㎒	56690 Ch. 3695 ㎒		
10 MHz	QPSK	1	0	20.83	20.70	20.95	21.49	0	0
		1	24	21.04	20.90	21.17	21.62	0	0
		1	49	20.82	20.68	20.99	21.49	0	0
		25	0	19.88	19.75	20.02	20.52	0-1	1
		25	12	19.90	19.74	20.06	20.56	0-1	1
		25	24	19.90	19.74	20.07	20.56	0-1	1
		50	0	19.89	19.75	20.04	20.56	0-1	1
	16QAM	1	0	19.75	19.76	19.98	20.51	0-1	1
		1	24	19.53	19.78	19.90	20.47	0-1	1
		1	49	19.76	19.72	20.04	20.54	0-1	1
		25	0	18.89	18.73	19.04	19.57	0-2	2
		25	12	18.89	18.76	19.07	19.58	0-2	2
		25	24	18.89	18.75	19.07	19.58	0-2	2
		50	0	18.90	18.75	19.08	19.56	0-2	2
	64QAM	1	0	18.87	18.77	19.01	19.54	0-2	2
		1	24	18.82	18.80	18.94	19.42	0-2	2
		1	49	18.86	18.74	19.04	19.56	0-2	2
		25	0	17.89	17.72	18.04	18.56	0-3	3
		25	12	17.89	17.74	18.05	18.61	0-3	3
		25	24	17.90	17.74	18.07	18.59	0-3	3
		50	0	17.95	17.78	18.09	18.62	0-3	3
	256QAM	1	0	16.58	16.42	16.73	17.31	0-5	4
		1	24	16.63	16.50	16.73	17.45	0-5	4
		1	49	16.57	16.45	16.72	17.35	0-5	4
		25	0	15.95	15.81	16.10	16.61	0-5	5
		25	12	15.95	15.83	16.09	16.62	0-5	5
		25	24	15.96	15.81	16.11	16.62	0-5	5
		50	0	16.00	15.84	16.14	16.66	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	20.77	20.67	20.92	21.43	0	0
		1	36	20.95	20.85	21.12	21.55	0	0
		1	74	20.80	20.69	21.01	21.53	0	0
		36	0	19.82	19.74	20.01	20.55	0-1	1
		36	18	19.86	19.74	20.07	20.58	0-1	1
		36	39	19.85	19.76	20.07	20.60	0-1	1
		75	0	19.84	19.76	20.05	20.58	0-1	1
	16QAM	1	0	19.75	19.58	19.90	20.46	0-1	1
		1	36	19.63	19.48	19.84	20.51	0-1	1
		1	74	19.76	19.53	19.98	20.47	0-1	1
		36	0	18.80	18.71	19.00	19.53	0-2	2
		36	18	18.84	18.73	19.02	19.57	0-2	2
		36	39	18.83	18.72	19.05	19.58	0-2	2
		75	0	18.85	18.74	19.05	19.59	0-2	2
	64QAM	1	0	18.91	18.87	19.12	19.64	0-2	2
		1	36	19.08	19.01	19.34	19.88	0-2	2
		1	74	18.93	18.87	19.26	19.63	0-2	2
		36	0	17.83	17.72	18.03	18.56	0-3	3
		36	18	17.86	17.75	18.05	18.59	0-3	3
		36	39	17.86	17.75	18.07	18.59	0-3	3
		75	0	17.86	17.75	18.05	18.58	0-3	3
	256QAM	1	0	16.56	16.45	16.67	17.23	0-5	4
		1	36	16.56	16.45	16.78	17.19	0-5	4
		1	74	16.58	16.41	16.71	17.29	0-5	4
		36	0	15.88	15.76	16.05	16.57	0-5	5
		36	18	15.89	15.80	16.07	16.61	0-5	5
		36	39	15.89	15.78	16.09	16.61	0-5	5
		75	0	15.87	15.76	16.07	16.58	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	20.69	20.73	20.94	21.42	0	0
		1	49	20.91	20.89	21.16	21.68	0	0
		1	99	20.73	20.65	20.98	21.49	0	0
		50	0	19.77	19.70	19.97	20.50	0-1	1
		50	25	19.78	19.73	20.01	20.55	0-1	1
		50	49	19.81	19.73	20.04	20.58	0-1	1
		100	0	19.81	19.74	20.01	20.55	0-1	1
	16QAM	1	0	19.79	19.74	19.89	20.32	0-1	1
		1	49	19.74	19.57	19.78	20.22	0-1	1
		1	99	19.77	19.71	19.95	20.41	0-1	1
		50	0	18.78	18.73	19.00	19.54	0-2	2
		50	25	18.82	18.76	19.06	19.58	0-2	2
		50	49	18.83	18.75	19.07	19.58	0-2	2
		100	0	18.85	18.78	19.09	19.62	0-2	2
	64QAM	1	0	18.80	18.85	19.01	19.50	0-2	2
		1	49	18.89	18.84	19.09	19.43	0-2	2
		1	99	18.86	18.79	19.19	19.60	0-2	2
		50	0	17.84	17.77	18.04	18.57	0-3	3
		50	25	17.87	17.78	18.08	18.61	0-3	3
		50	49	17.86	17.77	18.09	18.60	0-3	3
		100	0	17.81	17.75	18.05	18.58	0-3	3
	256QAM	1	0	16.44	16.47	16.69	17.24	0-5	4
		1	49	16.53	16.63	16.85	17.37	0-5	4
		1	99	16.50	16.51	16.84	17.29	0-5	4
		50	0	15.90	15.82	16.10	16.62	0-5	5
		50	25	15.92	15.83	16.12	16.65	0-5	5
		50	49	15.93	15.84	16.15	16.68	0-5	5
		100	0	15.83	15.77	16.06	16.59	0-5	5

[LTE Band 66 Conducted Power]

LTE Band 66 _ 1.4 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131979Ch. 1710.7 ㎒	132322 Ch. 1745 ㎒	132665 Ch. 1779.3 ㎒		
1.4 MHz	QPSK	1	0	23.57	23.04	22.94	0	0
		1	3	23.50	23.02	23.05	0	0
		1	5	23.63	23.15	23.22	0	0
		3	0	23.65	23.19	23.29	0	0
		3	1	23.58	23.07	23.18	0	0
		3	3	23.64	23.13	23.35	0	0
		6	0	22.73	22.27	22.44	0-1	1
	16QAM	1	0	22.81	22.30	22.44	0-1	1
		1	3	22.76	22.28	22.51	0-1	1
		1	5	22.80	22.38	22.44	0-1	1
		3	0	22.67	22.29	22.39	0-1	1
		3	1	22.74	22.27	22.37	0-1	1
		3	3	22.72	22.31	22.35	0-1	1
		6	0	21.76	21.28	21.42	0-2	2
	64QAM	1	0	21.80	21.31	21.57	0-2	2
		1	3	21.61	21.36	21.45	0-2	2
		1	5	21.75	21.34	21.46	0-2	2
		3	0	21.80	21.36	21.40	0-2	2
		3	1	21.82	21.24	21.37	0-2	2
		3	3	21.76	21.22	21.42	0-2	2
		6	0	20.73	20.28	20.39	0-3	3
	256QAM	1	0	19.76	19.30	19.56	0-5	4
		1	3	19.60	19.23	19.46	0-5	4
		1	5	19.75	19.40	19.36	0-5	4
		3	0	19.64	19.31	19.40	0-5	4
		3	1	19.60	19.22	19.28	0-5	4
		3	3	19.63	19.22	19.27	0-5	4
		6	0	18.50	18.15	18.32	0-5	5

LTE Band 66 _ 3 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131987 Ch. 1711.5 ㎒	132322 Ch. 1745 ㎒	132657 Ch. 1778.5 ㎒		
3 MHz	QPSK	1	0	23.47	23.25	23.21	0	0
		1	7	23.45	23.26	23.30	0	0
		1	14	23.53	23.26	23.36	0	0
		8	0	22.81	22.46	22.57	0-1	1
		8	3	22.83	22.49	22.60	0-1	1
		8	7	22.86	22.50	22.64	0-1	1
		15	0	22.86	22.45	22.68	0-1	1
	16QAM	1	0	22.76	22.54	22.77	0-1	1
		1	7	22.88	22.51	22.61	0-1	1
		1	14	22.95	22.65	22.46	0-1	1
		8	0	21.90	21.53	21.68	0-2	2
		8	3	21.95	21.57	21.66	0-2	2
		8	7	21.89	21.53	21.69	0-2	2
		15	0	21.93	21.50	21.70	0-2	2
	64QAM	1	0	21.97	21.60	21.73	0-2	2
		1	7	21.89	21.62	21.76	0-2	2
		1	14	21.99	21.62	21.68	0-2	2
		8	0	20.82	20.48	20.75	0-3	3
		8	3	20.93	20.44	20.74	0-3	3
		8	7	20.91	20.52	20.76	0-3	3
		15	0	20.82	20.49	20.72	0-3	3
	256QAM	1	0	19.92	19.45	19.80	0-5	4
		1	7	19.87	19.51	19.75	0-5	4
		1	14	19.79	19.58	19.60	0-5	4
		8	0	18.74	18.37	18.58	0-5	5
		8	3	18.71	18.33	18.60	0-5	5
		8	7	18.68	18.35	18.59	0-5	5
		15	0	18.69	18.35	18.57	0-5	5

LTE Band 66 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131997 Ch. 1712.5 ㎒	132322Ch. 1745 ㎒	132647 Ch. 1777.5 ㎒		
5 MHz	QPSK	1	0	22.97	23.18	23.14	0	0
		1	12	22.94	23.29	23.26	0	0
		1	24	23.05	23.33	23.44	0	0
		12	0	22.38	22.46	22.60	0-1	1
		12	6	22.36	22.49	22.58	0-1	1
		12	11	22.44	22.52	22.60	0-1	1
		25	0	22.52	22.57	22.72	0-1	1
	16QAM	1	0	22.65	22.60	22.65	0-1	1
		1	12	22.41	22.44	22.43	0-1	1
		1	24	22.50	22.69	22.62	0-1	1
		12	0	21.56	21.58	21.69	0-2	2
		12	6	21.60	21.49	21.66	0-2	2
		12	11	21.54	21.55	21.64	0-2	2
		25	0	21.49	21.51	21.66	0-2	2
	64QAM	1	0	21.61	21.72	21.73	0-2	2
		1	12	21.51	21.68	21.72	0-2	2
		1	24	21.66	21.58	21.65	0-2	2
		12	0	20.55	20.52	20.65	0-3	3
		12	6	20.52	20.50	20.67	0-3	3
		12	11	20.47	20.53	20.66	0-3	3
		25	0	20.39	20.48	20.61	0-3	3
	256QAM	1	0	19.36	19.42	19.72	0-5	4
		1	12	19.26	19.58	19.69	0-5	4
		1	24	19.35	19.52	19.68	0-5	4
		12	0	18.37	18.42	18.58	0-5	5
		12	6	18.37	18.44	18.60	0-5	5
		12	11	18.39	18.39	18.60	0-5	5
		25	0	18.28	18.39	18.54	0-5	5

LTE Band 66 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132022 Ch. 1715 ㎒	132322 Ch. 1745 ㎒	132622 Ch. 1775 ㎒		
10 MHz	QPSK	1	0	23.56	23.06	23.05	0	0
		1	24	23.62	23.05	23.15	0	0
		1	49	23.75	23.05	23.21	0	0
		25	0	22.94	22.41	22.52	0-1	1
		25	12	22.98	22.47	22.47	0-1	1
		25	24	22.99	22.39	22.49	0-1	1
		50	0	23.03	22.51	22.57	0-1	1
	16QAM	1	0	22.82	22.47	22.30	0-1	1
		1	24	22.93	22.40	22.47	0-1	1
		1	49	22.95	22.52	22.40	0-1	1
		25	0	21.92	21.43	21.45	0-2	2
		25	12	21.87	21.40	21.42	0-2	2
		25	24	21.90	21.35	21.47	0-2	2
		50	0	21.95	21.39	21.50	0-2	2
	64QAM	1	0	21.94	21.28	21.45	0-2	2
		1	24	21.98	21.31	21.41	0-2	2
		1	49	21.99	21.47	21.54	0-2	2
		25	0	20.79	20.25	20.36	0-3	3
		25	12	20.81	20.24	20.34	0-3	3
		25	24	20.79	20.23	20.36	0-3	3
		50	0	20.90	20.29	20.42	0-3	3
	256QAM	1	0	19.90	19.37	19.33	0-5	4
		1	24	19.82	19.19	19.25	0-5	4
		1	49	19.73	19.33	19.38	0-5	4
		25	0	18.69	18.14	18.16	0-5	5
		25	12	18.69	18.16	18.18	0-5	5
		25	24	18.66	18.13	18.15	0-5	5
		50	0	18.67	18.21	18.12	0-5	5

LTE Band 66 _ 15 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132047 Ch. 1717.5 ㎒	132322 Ch. 1745 ㎒	132597 Ch. 1772.5 ㎒		
15 MHz	QPSK	1	0	23.06	23.17	23.05	0	0
		1	36	23.13	23.22	23.06	0	0
		1	74	23.25	23.25	23.16	0	0
		36	0	22.52	22.54	22.40	0-1	1
		36	18	22.52	22.53	22.43	0-1	1
		36	39	22.56	22.52	22.45	0-1	1
		75	0	22.57	22.55	22.43	0-1	1
	16QAM	1	0	22.42	22.55	22.45	0-1	1
		1	36	22.51	22.74	22.27	0-1	1
		1	74	22.60	22.66	22.44	0-1	1
		36	0	21.55	21.55	21.33	0-2	2
		36	18	21.58	21.53	21.35	0-2	2
		36	39	21.59	21.51	21.42	0-2	2
		75	0	21.52	21.50	21.30	0-2	2
	64QAM	1	0	21.63	21.66	21.36	0-2	2
		1	36	21.70	21.74	21.34	0-2	2
		1	74	21.77	21.76	21.43	0-2	2
		36	0	20.55	20.57	20.37	0-3	3
		36	18	20.62	20.58	20.34	0-3	3
		36	39	20.62	20.58	20.39	0-3	3
		75	0	20.49	20.48	20.31	0-3	3
	256QAM	1	0	19.54	19.48	19.23	0-5	4
		1	36	19.68	19.62	19.11	0-5	4
		1	74	19.72	19.59	19.47	0-5	4
		36	0	18.42	18.46	18.20	0-5	5
		36	18	18.44	18.45	18.23	0-5	5
		36	39	18.42	18.43	18.23	0-5	5
		75	0	18.34	18.41	18.17	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	23.30	23.22	22.99	0	0
		1	49	23.49	23.34	23.10	0	0
		1	99	23.48	23.21	23.13	0	0
		50	0	22.85	22.71	22.45	0-1	1
		50	25	22.89	22.70	22.54	0-1	1
		50	49	22.90	22.62	22.44	0-1	1
		100	0	22.85	22.60	22.40	0-1	1
	16QAM	1	0	22.66	22.56	22.48	0-1	1
		1	49	22.75	22.54	22.23	0-1	1
		1	99	22.91	22.51	22.42	0-1	1
		50	0	21.89	21.67	21.41	0-2	2
		50	25	21.90	21.65	21.46	0-2	2
		50	49	21.91	21.60	21.40	0-2	2
		100	0	21.83	21.51	21.32	0-2	2
	64QAM	1	0	21.80	21.61	21.37	0-2	2
		1	49	21.95	21.63	21.30	0-2	2
		1	99	21.92	21.55	21.34	0-2	2
		50	0	20.85	20.64	20.44	0-3	3
		50	25	20.86	20.59	20.43	0-3	3
		50	49	20.84	20.55	20.40	0-3	3
		100	0	20.74	20.48	20.30	0-3	3
	256QAM	1	0	19.71	19.53	19.28	0-5	4
		1	49	19.86	19.58	19.55	0-5	4
		1	99	19.79	19.41	19.46	0-5	4
		50	0	18.72	18.56	18.30	0-5	5
		50	25	18.75	18.53	18.32	0-5	5
		50	49	18.71	18.43	18.30	0-5	5
		100	0	18.65	18.44	18.22	0-5	5

[LTE Band 71 Conducted Power]

LTE Band 71 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				133147 Ch. 665.5 ㎒	133297 Ch. 680.5 ㎒	133442 Ch. 695.0 ㎒		
5 MHz	QPSK	1	0	23.97	24.23	24.45	0	0
		1	12	23.94	24.24	24.46	0	0
		1	24	24.06	24.22	24.47	0	0
		12	0	23.22	23.39	23.60	0-1	1
		12	6	23.18	23.39	23.63	0-1	1
		12	11	23.18	23.39	23.59	0-1	1
		25	0	23.16	23.38	23.52	0-1	1
	16QAM	1	0	23.29	23.59	23.77	0-1	1
		1	12	23.24	23.24	23.67	0-1	1
		1	24	23.25	23.47	23.68	0-1	1
		12	0	22.24	22.39	22.70	0-2	2
		12	6	22.22	22.39	22.62	0-2	2
		12	11	22.18	22.42	22.63	0-2	2
		25	0	22.16	22.34	22.57	0-2	2
	64QAM	1	0	22.51	22.62	22.80	0-2	2
		1	12	22.39	22.55	22.83	0-2	2
		1	24	22.26	22.49	22.70	0-2	2
		12	0	21.23	21.47	21.59	0-3	3
		12	6	21.19	21.39	21.64	0-3	3
		12	11	21.16	21.39	21.59	0-3	3
		25	0	21.10	21.34	21.56	0-3	3
	256QAM	1	0	19.90	20.07	20.36	0-5	4
		1	12	19.87	20.06	20.46	0-5	4
		1	24	19.82	20.02	20.38	0-5	4
		12	0	18.76	19.02	19.25	0-5	5
		12	6	18.77	19.01	19.20	0-5	5
		12	11	18.77	18.97	19.20	0-5	5
		25	0	18.77	19.01	19.19	0-5	5

LTE Band 71 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				133172 Ch. 668 ㎒	133297 Ch. 680.5 ㎒	133422 Ch. 693 ㎒		
10 MHz	QPSK	1	0	23.97	24.23	24.45	0	0
		1	24	23.92	24.15	24.44	0	0
		1	49	23.81	24.06	24.33	0	0
		25	0	23.10	23.32	23.52	0-1	1
		25	12	23.05	23.28	23.48	0-1	1
		25	24	23.05	23.24	23.46	0-1	1
		50	0	23.10	23.28	23.49	0-1	1
	16QAM	1	0	23.18	23.43	23.75	0-1	1
		1	24	23.14	23.30	23.61	0-1	1
		1	49	23.21	23.36	23.62	0-1	1
		25	0	22.15	22.32	22.53	0-2	2
		25	12	22.11	22.31	22.52	0-2	2
		25	24	22.08	22.25	22.50	0-2	2
		50	0	22.10	22.28	22.53	0-2	2
	64QAM	1	0	22.24	22.47	22.60	0-2	2
		1	24	22.17	22.40	22.68	0-2	2
		1	49	22.29	22.46	22.61	0-2	2
		25	0	21.12	21.30	21.52	0-3	3
		25	12	21.07	21.27	21.53	0-3	3
		25	24	21.04	21.23	21.50	0-3	3
		50	0	21.08	21.30	21.51	0-3	3
	256QAM	1	0	19.71	20.07	20.39	0-5	4
		1	24	19.64	20.12	20.43	0-5	4
		1	49	19.66	19.94	20.28	0-5	4
		25	0	18.75	18.98	19.19	0-5	5
		25	12	18.71	18.94	19.18	0-5	5
		25	24	18.72	18.96	19.16	0-5	5
		50	0	18.78	18.96	19.22	0-5	5

LTE Band 71 _ 15 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				133197 ch. 670.5 MHz	133297 ch. 680.5 MHz	133397ch. 690.5 MHz		
15 MHz	QPSK	1	0	23.96	24.17	24.39	0	0
		1	36	23.92	24.16	24.37	0	0
		1	74	23.84	24.04	24.29	0	0
		36	0	23.09	23.30	23.53	0-1	1
		36	18	23.07	23.26	23.47	0-1	1
		36	39	23.03	23.24	23.42	0-1	1
		75	0	23.05	23.25	23.43	0-1	1
	16QAM	1	0	23.18	23.53	23.73	0-1	1
		1	36	23.14	23.25	23.51	0-1	1
		1	74	23.13	23.43	23.65	0-1	1
		36	0	22.09	22.32	22.52	0-2	2
		36	18	22.07	22.26	22.50	0-2	2
		36	39	22.05	22.23	22.48	0-2	2
		75	0	22.10	22.25	22.44	0-2	2
	64QAM	1	0	22.33	22.34	22.66	0-2	2
		1	36	22.25	22.41	22.67	0-2	2
		1	74	22.21	22.28	22.51	0-2	2
		36	0	21.16	21.32	21.57	0-3	3
		36	18	21.15	21.31	21.55	0-3	3
		36	39	21.09	21.22	21.47	0-3	3
		75	0	21.06	21.24	21.44	0-3	3
	256QAM	1	0	20.15	20.16	20.45	0-5	4
		1	36	19.99	20.28	20.33	0-5	4
		1	74	20.04	20.18	20.40	0-5	4
		36	0	18.99	19.17	19.35	0-5	5
		36	18	18.93	19.11	19.28	0-5	5
		36	39	18.93	19.11	19.25	0-5	5
		75	0	18.96	19.06	19.29	0-5	5

LTE Band 71 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm] 133297 ch. 680.5 MHz	MPR Allowed Per 3GPP [dB]	MPR [dB]
20 MHz	QPSK	1	0	24.27	0	0
		1	49	24.25	0	0
		1	99	24.04	0	0
		50	0	23.35	0-1	1
		50	25	23.36	0-1	1
		50	49	23.28	0-1	1
		100	0	23.26	0-1	1
	16QAM	1	0	23.65	0-1	1
		1	49	23.53	0-1	1
		1	99	23.33	0-1	1
		50	0	22.33	0-2	2
		50	25	22.30	0-2	2
		50	49	22.21	0-2	2
		100	0	22.27	0-2	2
	64QAM	1	0	22.44	0-2	2
		1	49	22.45	0-2	2
		1	99	22.20	0-2	2
		50	0	21.37	0-3	3
		50	25	21.32	0-3	3
		50	49	21.21	0-3	3
		100	0	21.24	0-3	3
	256QAM	1	0	20.35	0-5	4
		1	49	20.22	0-5	4
		1	99	20.11	0-5	4
		50	0	19.24	0-5	5
		50	25	19.22	0-5	5
		50	49	19.19	0-5	5
		100	0	19.19	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 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18607 Ch. 1850.7 ㎒	18900 Ch. 1880 ㎒	19193 Ch. 1909.3 ㎒		
1.4 MHz	QPSK	1	0	19.45	19.13	19.64	0	0
		1	3	19.45	19.06	19.66	0	0
		1	5	19.52	19.15	19.73	0	0
		3	0	19.57	19.18	19.73	0	0
		3	1	19.42	19.09	19.68	0	0
		3	3	19.52	19.10	19.67	0	0
		6	0	19.60	19.25	19.79	0-1	0
	16QAM	1	0	19.77	19.45	19.98	0-1	0
		1	3	19.59	19.28	19.78	0-1	0
		1	5	19.78	19.36	19.93	0-1	0
		3	0	19.67	19.25	19.76	0-1	0
		3	1	19.59	19.24	19.83	0-1	0
		3	3	19.62	19.28	19.78	0-1	0
		6	0	19.67	19.31	19.89	0-2	0
	64QAM	1	0	19.70	19.40	19.99	0-2	0
		1	3	19.63	19.24	19.72	0-2	0
		1	5	19.73	19.44	19.95	0-2	0
		3	0	19.64	19.25	19.81	0-2	0
		3	1	19.54	19.33	19.85	0-2	0
		3	3	19.64	19.32	19.87	0-2	0
		6	0	19.71	19.30	19.84	0-3	0
	256QAM	1	0	19.73	19.34	19.88	0-5	0
		1	3	19.67	19.23	19.75	0-5	0
		1	5	19.81	19.36	19.88	0-5	0
		3	0	19.61	19.31	19.84	0-5	0
		3	1	19.59	19.31	19.83	0-5	0
		3	3	19.68	19.29	19.79	0-5	0
		6	0	18.62	18.29	18.82	0-5	1

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	19.39	19.12	19.65	0	0
		1	7	19.44	18.98	19.53	0	0
		1	14	19.40	18.98	19.54	0	0
		8	0	19.57	19.21	19.75	0-1	0
		8	3	19.65	19.21	19.76	0-1	0
		8	7	19.58	19.26	19.79	0-1	0
		15	0	19.62	19.25	19.74	0-1	0
	16QAM	1	0	19.80	19.39	19.96	0-1	0
		1	7	19.66	19.27	19.83	0-1	0
		1	14	19.79	19.39	19.81	0-1	0
		8	0	19.60	19.22	19.79	0-2	0
		8	3	19.66	19.34	19.90	0-2	0
		8	7	19.66	19.31	19.87	0-2	0
		15	0	19.58	19.25	19.77	0-2	0
	64QAM	1	0	19.84	19.45	19.97	0-2	0
		1	7	19.87	19.29	19.83	0-2	0
		1	14	19.77	19.26	19.89	0-2	0
		8	0	19.47	19.10	19.73	0-3	0
		8	3	19.55	19.24	19.67	0-3	0
		8	7	19.63	19.19	19.79	0-3	0
		15	0	19.56	19.26	19.73	0-3	0
	256QAM	1	0	19.81	19.30	19.94	0-5	0
		1	7	19.80	19.36	19.95	0-5	0
		1	14	19.83	19.35	19.87	0-5	0
		8	0	18.51	18.09	18.61	0-5	1
		8	3	18.50	18.15	18.67	0-5	1
		8	7	18.50	18.09	18.65	0-5	1
		15	0	18.64	18.19	18.78	0-5	1

LTE Band 2 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18625 Ch. 1852.5 ㎒	18900 Ch. 1880 ㎒	19175 Ch. 1907.5 ㎒		
5 MHz	QPSK	1	0	19.44	19.04	19.53	0	0
		1	12	19.48	19.00	19.53	0	0
		1	24	19.46	19.13	19.63	0	0
		12	0	19.62	19.23	19.75	0-1	0
		12	6	19.59	19.23	19.79	0-1	0
		12	11	19.65	19.23	19.76	0-1	0
		25	0	19.60	19.21	19.72	0-1	0
	16QAM	1	0	19.80	19.47	20.04	0-1	0
		1	12	19.82	19.21	19.87	0-1	0
		1	24	19.79	19.32	20.04	0-1	0
		12	0	19.67	19.29	19.72	0-2	0
		12	6	19.65	19.31	19.78	0-2	0
		12	11	19.68	19.26	19.78	0-2	0
		25	0	19.65	19.16	19.75	0-2	0
	64QAM	1	0	19.66	19.45	19.78	0-2	0
		1	12	19.78	19.41	19.76	0-2	0
		1	24	19.79	19.45	19.95	0-2	0
		12	0	19.63	19.29	19.76	0-3	0
		12	6	19.60	19.26	19.73	0-3	0
		12	11	19.63	19.23	19.80	0-3	0
		25	0	19.62	19.23	19.71	0-3	0
	256QAM	1	0	19.75	19.52	19.69	0-5	0
		1	12	19.78	19.53	19.83	0-5	0
		1	24	19.80	19.45	19.95	0-5	0
		12	0	18.60	18.18	18.74	0-5	1
		12	6	18.68	18.24	18.73	0-5	1
		12	11	18.67	18.24	18.76	0-5	1
		25	0	18.63	18.22	18.70	0-5	1

LTE Band 2 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18650 Ch. 1855 ㎒	18900 Ch. 1880 ㎒	19150 Ch. 1905 ㎒		
10 MHz	QPSK	1	0	19.45	19.00	19.49	0	0
		1	24	19.52	19.06	19.51	0	0
		1	49	19.53	19.01	19.49	0	0
		25	0	19.58	19.15	19.56	0-1	0
		25	12	19.65	19.18	19.57	0-1	0
		25	24	19.66	19.19	19.66	0-1	0
		50	0	19.64	19.23	19.66	0-1	0
	16QAM	1	0	19.75	19.46	19.65	0-1	0
		1	24	19.83	19.29	19.68	0-1	0
		1	49	19.86	19.37	19.90	0-1	0
		25	0	19.58	19.25	19.64	0-2	0
		25	12	19.61	19.27	19.64	0-2	0
		25	24	19.67	19.21	19.67	0-2	0
		50	0	19.70	19.25	19.74	0-2	0
	64QAM	1	0	19.83	19.35	19.72	0-2	0
		1	24	19.84	19.48	19.80	0-2	0
		1	49	19.95	19.40	19.82	0-2	0
		25	0	19.57	19.23	19.57	0-3	0
		25	12	19.65	19.24	19.64	0-3	0
		25	24	19.64	19.23	19.64	0-3	0
		50	0	19.70	19.27	19.70	0-3	0
	256QAM	1	0	19.58	19.33	19.68	0-5	0
		1	24	19.67	19.41	19.58	0-5	0
		1	49	19.57	19.24	19.62	0-5	0
		25	0	18.64	18.23	18.65	0-5	1
		25	12	18.63	18.21	18.65	0-5	1
		25	24	18.65	18.18	18.68	0-5	1
		50	0	18.70	18.21	18.65	0-5	1

LTE Band 2 _ 15 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18675 Ch. 1857.5 ㎒	18900 Ch. 1880 ㎒	19125 Ch. 1902.5 ㎒		
15 MHz	QPSK	1	0	19.07	18.96	19.35	0	0
		1	36	19.27	18.97	19.31	0	0
		1	74	19.28	18.98	19.36	0	0
		36	0	19.56	19.15	19.53	0-1	0
		36	18	19.66	19.20	19.54	0-1	0
		36	39	19.67	19.21	19.56	0-1	0
		75	0	19.62	19.15	19.48	0-1	0
	16QAM	1	0	19.82	19.41	19.76	0-1	0
		1	36	19.65	19.35	19.70	0-1	0
		1	74	19.94	19.53	19.81	0-1	0
		36	0	19.61	19.23	19.56	0-2	0
		36	18	19.66	19.25	19.60	0-2	0
		36	39	19.70	19.27	19.64	0-2	0
		75	0	19.63	19.18	19.53	0-2	0
	64QAM	1	0	19.59	19.38	19.74	0-2	0
		1	36	19.80	19.49	19.69	0-2	0
		1	74	19.94	19.37	19.80	0-2	0
		36	0	19.64	19.29	19.58	0-3	0
		36	18	19.70	19.28	19.59	0-3	0
		36	39	19.74	19.23	19.62	0-3	0
		75	0	19.59	19.22	19.52	0-3	0
	256QAM	1	0	19.53	19.27	19.79	0-5	0
		1	36	19.74	19.29	19.72	0-5	0
		1	74	19.94	19.34	19.81	0-5	0
		36	0	18.60	18.21	18.52	0-5	1
		36	18	18.62	18.16	18.51	0-5	1
		36	39	18.65	18.18	18.55	0-5	1
		75	0	18.69	18.23	18.56	0-5	1

LTE Band 2 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18700 Ch. 1860 ㎒	18900 Ch. 1880 ㎒	19100 Ch. 1900 ㎒		
20 MHz	QPSK	1	0	19.18	18.93	19.13	0	0
		1	49	19.40	18.99	19.22	0	0
		1	99	19.37	18.85	19.14	0	0
		50	0	19.50	19.07	19.32	0-1	0
		50	25	19.60	19.12	19.37	0-1	0
		50	49	19.59	19.13	19.36	0-1	0
		100	0	19.51	19.11	19.33	0-1	0
	16QAM	1	0	19.74	19.12	19.44	0-1	0
		1	49	19.89	19.08	19.26	0-1	0
		1	99	19.95	19.27	19.47	0-1	0
		50	0	19.52	19.11	19.38	0-2	0
		50	25	19.62	19.18	19.44	0-2	0
		50	49	19.63	19.13	19.41	0-2	0
		100	0	19.52	19.08	19.36	0-2	0
	64QAM	1	0	19.67	19.22	19.42	0-2	0
		1	49	19.60	19.16	19.39	0-2	0
		1	99	19.72	19.03	19.35	0-2	0
		50	0	19.57	19.15	19.42	0-3	0
		50	25	19.66	19.20	19.42	0-3	0
		50	49	19.67	19.17	19.46	0-3	0
		100	0	19.54	19.12	19.34	0-3	0
	256QAM	1	0	19.63	19.19	19.32	0-5	0
		1	49	19.84	19.36	19.57	0-5	0
		1	99	19.89	19.20	19.43	0-5	0
		50	0	18.56	18.11	18.33	0-5	1
		50	25	18.57	18.16	18.36	0-5	1
		50	49	18.63	18.11	18.38	0-5	1
		100	0	18.57	18.12	18.40	0-5	1

[LTE Band 4 Conducted Power]

LTE Band 4 _ 1.4 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19957 Ch. 1710.7 ㎒	20175 Ch. 1732.5 ㎒	20393 Ch. 1754.3 ㎒		
1.4 MHz	QPSK	1	0	17.41	17.57	18.35	0	0
		1	3	17.41	17.59	18.35	0	0
		1	5	17.34	17.67	18.45	0	0
		3	0	17.41	17.74	18.47	0	0
		3	1	17.51	17.56	18.32	0	0
		3	3	17.59	17.74	18.46	0	0
		6	0	17.60	17.69	18.49	0-1	0
	16QAM	1	0	17.66	17.89	18.65	0-1	0
		1	3	17.67	17.78	18.59	0-1	0
		1	5	17.66	17.75	18.69	0-1	0
		3	0	17.68	17.70	18.46	0-1	0
		3	1	17.61	17.74	18.51	0-1	0
		3	3	17.66	17.79	18.57	0-1	0
		6	0	17.66	17.72	18.53	0-2	0
	64QAM	1	0	17.73	17.84	18.74	0-2	0
		1	3	17.62	17.72	18.52	0-2	0
		1	5	17.83	17.94	18.67	0-2	0
		3	0	17.74	17.85	18.59	0-2	0
		3	1	17.71	17.79	18.52	0-2	0
		3	3	17.65	17.73	18.57	0-2	0
		6	0	17.71	17.75	18.59	0-3	0
	256QAM	1	0	17.59	17.87	18.63	0-5	0
		1	3	17.45	17.65	18.47	0-5	0
		1	5	17.75	17.86	18.60	0-5	0
		3	0	17.61	17.79	18.57	0-5	0
		3	1	17.66	17.73	18.56	0-5	0
		3	3	17.69	17.78	18.58	0-5	0
		6	0	17.15	17.25	18.00	0-5	1

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	17.39	17.53	18.29	0	0
		1	7	17.32	17.42	18.24	0	0
		1	14	17.45	17.44	18.17	0	0
		8	0	17.56	17.64	18.42	0-1	0
		8	3	17.51	17.62	18.45	0-1	0
		8	7	17.52	17.66	18.47	0-1	0
		15	0	17.56	17.69	18.45	0-1	0
	16QAM	1	0	17.50	17.67	18.47	0-1	0
		1	7	17.65	17.64	18.35	0-1	0
		1	14	17.71	17.81	18.70	0-1	0
		8	0	17.55	17.71	18.48	0-2	0
		8	3	17.66	17.86	18.46	0-2	0
		8	7	17.62	17.83	18.45	0-2	0
		15	0	17.59	17.73	18.47	0-2	0
	64QAM	1	0	17.79	18.01	18.69	0-2	0
		1	7	17.85	17.96	18.58	0-2	0
		1	14	17.84	17.99	18.55	0-2	0
		8	0	17.58	17.79	18.38	0-3	0
		8	3	17.62	17.70	18.45	0-3	0
		8	7	17.68	17.74	18.44	0-3	0
		15	0	17.62	17.74	18.44	0-3	0
	256QAM	1	0	17.75	17.83	18.66	0-5	0
		1	7	17.63	17.77	18.50	0-5	0
		1	14	17.66	17.78	18.73	0-5	0
		8	0	16.93	17.02	17.77	0-5	1
		8	3	17.00	17.06	17.81	0-5	1
		8	7	16.90	17.10	17.79	0-5	1
		15	0	17.04	17.15	17.92	0-5	1

LTE Band 4 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19975 Ch. 1712.5 ㎒	20175 Ch. 1732.5 ㎒	20375 Ch. 1752.5 ㎒		
5 MHz	QPSK	1	0	17.34	17.49	18.23	0	0
		1	12	17.60	17.53	18.19	0	0
		1	24	17.40	17.60	18.28	0	0
		12	0	17.58	17.72	18.45	0-1	0
		12	6	17.58	17.73	18.43	0-1	0
		12	11	17.62	17.76	18.48	0-1	0
		25	0	17.51	17.74	18.43	0-1	0
	16QAM	1	0	17.90	17.87	18.70	0-1	0
		1	12	17.53	17.83	18.68	0-1	0
		1	24	17.72	17.98	18.71	0-1	0
		12	0	17.62	17.74	18.53	0-2	0
		12	6	17.66	17.74	18.48	0-2	0
		12	11	17.65	17.74	18.53	0-2	0
		25	0	17.53	17.76	18.47	0-2	0
	64QAM	1	0	17.72	17.87	18.60	0-2	0
		1	12	17.74	18.01	18.57	0-2	0
		1	24	17.80	18.10	18.56	0-2	0
		12	0	17.63	17.68	18.53	0-3	0
		12	6	17.65	17.69	18.50	0-3	0
		12	11	17.65	17.76	18.50	0-3	0
		25	0	17.55	17.69	18.44	0-3	0
	256QAM	1	0	17.60	17.93	18.41	0-5	0
		1	12	17.67	17.86	18.71	0-5	0
		1	24	17.74	18.02	18.58	0-5	0
		12	0	17.11	17.18	17.92	0-5	1
		12	6	17.12	17.21	17.94	0-5	1
		12	11	17.12	17.20	17.94	0-5	1
		25	0	17.08	17.15	17.93	0-5	1

LTE Band 4 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20000 Ch. 1715 ㎒	20175 Ch. 1732.5 ㎒	20350 Ch. 1750 ㎒		
10 MHz	QPSK	1	0	17.36	17.55	18.32	0	0
		1	24	17.31	17.57	18.25	0	0
		1	49	17.49	17.58	18.22	0	0
		25	0	17.48	17.68	18.37	0-1	0
		25	12	17.51	17.72	18.39	0-1	0
		25	24	17.52	17.71	18.41	0-1	0
		50	0	17.53	17.73	18.45	0-1	0
	16QAM	1	0	17.84	17.72	18.58	0-1	0
		1	24	17.77	17.63	18.56	0-1	0
		1	49	17.69	17.81	18.63	0-1	0
		25	0	17.55	17.71	18.38	0-2	0
		25	12	17.58	17.71	18.41	0-2	0
		25	24	17.61	17.73	18.41	0-2	0
		50	0	17.57	17.78	18.48	0-2	0
	64QAM	1	0	17.75	17.86	18.59	0-2	0
		1	24	17.96	17.90	18.68	0-2	0
		1	49	17.92	17.89	18.63	0-2	0
		25	0	17.53	17.72	18.42	0-3	0
		25	12	17.59	17.71	18.44	0-3	0
		25	24	17.57	17.74	18.42	0-3	0
		50	0	17.59	17.83	18.49	0-3	0
	256QAM	1	0	17.77	17.83	18.62	0-5	0
		1	24	17.70	17.80	18.63	0-5	0
		1	49	17.66	17.92	18.54	0-5	0
		25	0	17.02	17.20	17.94	0-5	1
		25	12	17.07	17.23	17.93	0-5	1
		25	24	17.05	17.23	17.94	0-5	1
		50	0	17.04	17.19	17.95	0-5	1

LTE Band 4 _ 15 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20025 Ch. 1717.5 ㎒	20175 Ch. 1732.5 ㎒	20325 Ch. 1747.5 ㎒		
15 MHz	QPSK	1	0	17.34	17.37	18.03	0	0
		1	36	17.36	17.52	18.04	0	0
		1	74	17.41	17.59	18.12	0	0
		36	0	17.44	17.66	18.29	0-1	0
		36	18	17.50	17.71	18.30	0-1	0
		36	39	17.53	17.77	18.31	0-1	0
		75	0	17.46	17.71	18.30	0-1	0
	16QAM	1	0	17.65	17.74	18.40	0-1	0
		1	36	17.50	17.94	18.50	0-1	0
		1	74	17.77	17.99	18.42	0-1	0
		36	0	17.53	17.70	18.30	0-2	0
		36	18	17.56	17.72	18.34	0-2	0
		36	39	17.61	17.75	18.35	0-2	0
		75	0	17.52	17.72	18.31	0-2	0
	64QAM	1	0	17.37	17.89	18.49	0-2	0
		1	36	17.59	18.00	18.54	0-2	0
		1	74	17.69	17.95	18.47	0-2	0
		36	0	17.55	17.75	18.35	0-3	0
		36	18	17.59	17.84	18.40	0-3	0
		36	39	17.59	17.82	18.35	0-3	0
		75	0	17.52	17.70	18.29	0-3	0
	256QAM	1	0	17.56	17.88	18.24	0-5	0
		1	36	17.41	17.88	18.25	0-5	0
		1	74	17.66	17.97	18.31	0-5	0
		36	0	16.95	17.18	17.72	0-5	1
		36	18	17.02	17.20	17.79	0-5	1
		36	39	17.02	17.23	17.76	0-5	1
		75	0	17.02	17.27	17.81	0-5	1

LTE Band 4 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm] 20175 Ch. 1732.5 ㎒	MPR Allowed Per 3GPP [dB]	MPR [dB]
20 MHz	QPSK	1	0	17.43	0	0
		1	49	17.67	0	0
		1	99	17.56	0	0
		50	0	17.60	0-1	0
		50	25	17.67	0-1	0
		50	49	17.68	0-1	0
		100	0	17.69	0-1	0
	16QAM	1	0	17.88	0-1	0
		1	49	18.01	0-1	0
		1	99	18.01	0-1	0
		50	0	17.68	0-2	0
		50	25	17.75	0-2	0
		50	49	17.75	0-2	0
		100	0	17.66	0-2	0
	64QAM	1	0	17.76	0-2	0
		1	49	17.97	0-2	0
		1	99	17.93	0-2	0
		50	0	17.70	0-3	0
		50	25	17.76	0-3	0
		50	49	17.76	0-3	0
		100	0	17.73	0-3	0
	256QAM	1	0	17.67	0-5	0
		1	49	17.87	0-5	0
		1	99	17.90	0-5	0
		50	0	17.18	0-5	1
		50	25	17.22	0-5	1
		50	49	17.23	0-5	1
		100	0	17.25	0-5	1

[LTE Band 7 Conducted Power]

LTE Band 7 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20775 Ch. 2502.5 ㎒	21100 Ch. 2535 ㎒	21425 Ch. 2567.5 ㎒		
5 MHz	QPSK	1	0	20.21	20.25	20.68	0	0
		1	12	20.29	20.30	20.73	0	0
		1	24	20.15	20.29	20.69	0	0
		12	0	20.51	20.44	20.82	0-1	0
		12	6	20.51	20.43	20.83	0-1	0
		12	11	20.54	20.41	20.81	0-1	0
		25	0	20.63	20.48	20.85	0-1	0
	16QAM	1	0	20.62	20.66	20.68	0-1	0
		1	12	20.51	20.58	20.70	0-1	0
		1	24	20.65	20.70	20.75	0-1	0
		12	0	20.43	20.29	20.76	0-2	0
		12	6	20.42	20.39	20.80	0-2	0
		12	11	20.48	20.37	20.78	0-2	0
		25	0	20.51	20.44	20.83	0-2	0
	64QAM	1	0	20.51	20.39	20.92	0-2	0
		1	12	20.60	20.45	20.55	0-2	0
		1	24	20.57	20.48	20.87	0-2	0
		12	0	20.40	20.35	20.70	0-3	0
		12	6	20.47	20.36	20.74	0-3	0
		12	11	20.41	20.31	20.69	0-3	0
		25	0	20.49	20.38	20.82	0-3	0
	256QAM	1	0	19.57	19.65	19.83	0-5	1
		1	12	19.54	19.50	19.94	0-5	1
		1	24	19.48	19.48	19.85	0-5	1
		12	0	18.41	18.39	18.74	0-5	2
		12	6	18.41	18.37	18.79	0-5	2
		12	11	18.43	18.39	18.73	0-5	2
		25	0	18.59	18.53	18.93	0-5	2

LTE Band 7_ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20800 Ch. 2505 ㎒	21100 Ch. 2535 ㎒	21400 Ch. 2565 ㎒		
10 MHz	QPSK	1	0	20.20	20.41	20.79	0	0
		1	24	20.17	20.35	20.71	0	0
		1	49	20.16	20.17	20.53	0	0
		25	0	20.60	20.54	20.97	0-1	0
		25	12	20.62	20.53	20.92	0-1	0
		25	24	20.59	20.45	20.87	0-1	0
		50	0	20.65	20.51	20.92	0-1	0
	16QAM	1	0	20.61	20.64	20.89	0-1	0
		1	24	20.55	20.46	20.88	0-1	0
		1	49	20.48	20.52	20.84	0-1	0
		25	0	20.56	20.50	20.88	0-2	0
		25	12	20.50	20.46	20.86	0-2	0
		25	24	20.51	20.43	20.82	0-2	0
		50	0	20.56	20.46	20.87	0-2	0
	64QAM	1	0	20.56	20.56	20.86	0-2	0
		1	24	20.64	20.65	20.88	0-2	0
		1	49	20.47	20.54	20.78	0-2	0
		25	0	20.52	20.45	20.80	0-3	0
		25	12	20.53	20.42	20.84	0-3	0
		25	24	20.54	20.39	20.81	0-3	0
		50	0	20.58	20.48	20.87	0-3	0
	256QAM	1	0	19.51	19.50	19.84	0-5	1
		1	24	19.56	19.60	19.98	0-5	1
		1	49	19.57	19.44	19.82	0-5	1
		25	0	18.64	18.54	18.89	0-5	2
		25	12	18.62	18.58	18.92	0-5	2
		25	24	18.64	18.54	18.84	0-5	2
		50	0	18.68	18.58	18.94	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	20.30	20.33	20.88	0	0
		1	36	20.39	20.27	20.71	0	0
		1	74	20.18	20.18	20.57	0	0
		36	0	20.64	20.50	20.93	0-1	0
		36	18	20.61	20.51	20.86	0-1	0
		36	39	20.60	20.41	20.82	0-1	0
		75	0	20.63	20.42	20.90	0-1	0
	16QAM	1	0	20.69	20.56	20.92	0-1	0
		1	36	20.63	20.46	20.75	0-1	0
		1	74	20.65	20.52	20.64	0-1	0
		36	0	20.51	20.40	20.76	0-2	0
		36	18	20.52	20.42	20.80	0-2	0
		36	39	20.50	20.32	20.68	0-2	0
		75	0	20.55	20.40	20.78	0-2	0
	64QAM	1	0	20.61	20.48	20.93	0-2	0
		1	36	20.70	20.52	20.94	0-2	0
		1	74	20.48	20.44	20.64	0-2	0
		36	0	20.56	20.43	20.78	0-3	0
		36	18	20.52	20.45	20.75	0-3	0
		36	39	20.50	20.39	20.71	0-3	0
		75	0	20.55	20.37	20.79	0-3	0
	256QAM	1	0	19.41	19.45	19.81	0-5	1
		1	36	19.61	19.48	19.75	0-5	1
		1	74	19.48	19.43	19.58	0-5	1
		36	0	18.53	18.46	18.82	0-5	2
		36	18	18.57	18.46	18.82	0-5	2
		36	39	18.53	18.44	18.71	0-5	2
		75	0	18.63	18.54	18.91	0-5	2

LTE Band 7 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20850 Ch. 2510 ㎒	21100 Ch. 2535 ㎒	21350 Ch. 2560 ㎒		
20 MHz	QPSK	1	0	20.29	20.45	20.69	0	0
		1	49	20.32	20.44	20.68	0	0
		1	99	20.19	20.13	20.38	0	0
		50	0	20.74	20.65	20.99	0-1	0
		50	25	20.70	20.59	20.95	0-1	0
		50	49	20.69	20.45	20.84	0-1	0
		100	0	20.67	20.49	20.86	0-1	0
	16QAM	1	0	20.57	20.58	20.75	0-1	0
		1	49	20.68	20.49	20.73	0-1	0
		1	99	20.54	20.27	20.66	0-1	0
		50	0	20.68	20.52	20.90	0-2	0
		50	25	20.62	20.49	20.85	0-2	0
		50	49	20.59	20.43	20.73	0-2	0
		100	0	20.55	20.39	20.73	0-2	0
	64QAM	1	0	20.53	20.62	20.95	0-2	0
		1	49	20.46	20.42	20.94	0-2	0
		1	99	20.53	20.31	20.69	0-2	0
		50	0	20.60	20.48	20.84	0-3	0
		50	25	20.64	20.46	20.84	0-3	0
		50	49	20.61	20.41	20.74	0-3	0
		100	0	20.53	20.38	20.72	0-3	0
	256QAM	1	0	19.47	19.49	19.75	0-5	1
		1	49	19.51	19.56	19.68	0-5	1
		1	99	19.39	19.18	19.38	0-5	1
		50	0	18.69	18.59	18.93	0-5	2
		50	25	18.69	18.56	18.93	0-5	2
		50	49	18.64	18.49	18.81	0-5	2
		100	0	18.66	18.55	18.83	0-5	2

[LTE Band 25 Conducted Power]

LTE Band 25 _ 1.4 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26047 Ch. 1850.7 ㎒	26365 Ch. 1882.5 ㎒	26683 Ch. 1914.3 ㎒		
1.4 MHz	QPSK	1	0	18.84	18.69	19.10	0	0
		1	3	18.87	18.69	19.09	0	0
		1	5	18.96	18.76	19.19	0	0
		3	0	19.01	18.77	19.20	0	0
		3	1	18.93	18.58	19.15	0	0
		3	3	19.03	18.90	19.14	0	0
		6	0	19.03	18.84	19.31	0-1	0
	16QAM	1	0	19.22	19.03	19.49	0-1	0
		1	3	19.25	18.85	19.39	0-1	0
		1	5	19.39	18.98	19.41	0-1	0
		3	0	19.19	18.85	19.30	0-1	0
		3	1	19.18	18.87	19.40	0-1	0
		3	3	19.13	18.91	19.39	0-1	0
		6	0	19.14	18.84	19.35	0-2	0
	64QAM	1	0	19.33	18.94	19.46	0-2	0
		1	3	19.12	18.90	19.33	0-2	0
		1	5	19.26	19.07	19.43	0-2	0
		3	0	19.10	18.96	19.33	0-2	0
		3	1	19.23	18.91	19.30	0-2	0
		3	3	19.12	18.94	19.30	0-2	0
		6	0	19.12	18.82	19.43	0-3	0
	256QAM	1	0	19.18	18.96	19.44	0-5	0
		1	3	19.04	18.89	19.28	0-5	0
		1	5	19.27	19.07	19.35	0-5	0
		3	0	19.16	18.89	19.33	0-5	0
		3	1	19.05	18.89	19.29	0-5	0
		3	3	19.14	18.88	19.33	0-5	0
		6	0	18.13	17.86	18.37	0-5	1

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	26675Ch. 1913.5 MHz		
3 MHz	QPSK	1	0	18.84	18.71	19.12	0	0
		1	7	18.77	18.61	19.03	0	0
		1	14	19.00	18.61	19.05	0	0
		8	0	19.06	18.83	19.27	0-1	0
		8	3	19.09	18.77	19.28	0-1	0
		8	7	19.09	18.84	19.33	0-1	0
		15	0	19.11	18.85	19.27	0-1	0
	16QAM	1	0	19.28	18.80	19.44	0-1	0
		1	7	19.28	18.98	19.29	0-1	0
		1	14	19.32	19.05	19.48	0-1	0
		8	0	19.06	18.91	19.33	0-2	0
		8	3	19.14	18.89	19.41	0-2	0
		8	7	19.10	18.85	19.37	0-2	0
		15	0	19.10	18.82	19.30	0-2	0
	64QAM	1	0	19.31	19.00	19.48	0-2	0
		1	7	19.11	18.92	19.41	0-2	0
		1	14	19.17	18.97	19.47	0-2	0
		8	0	19.11	18.83	19.29	0-3	0
		8	3	19.05	18.88	19.36	0-3	0
		8	7	19.08	18.87	19.34	0-3	0
		15	0	19.12	18.82	19.40	0-3	0
	256QAM	1	0	19.27	19.04	19.42	0-5	0
		1	7	19.26	18.85	19.35	0-5	0
		1	14	19.14	18.91	19.38	0-5	0
		8	0	17.96	17.63	18.15	0-5	1
		8	3	17.98	17.70	18.21	0-5	1
		8	7	17.97	17.70	18.20	0-5	1
		15	0	18.14	17.85	18.29	0-5	1

LTE Band 25 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26065 Ch. 1852.5 ㎒	26365 Ch. 1882.5 ㎒	26665 Ch. 1912.5 ㎒		
5 MHz	QPSK	1	0	18.97	18.57	18.97	0	0
		1	12	19.00	18.58	18.98	0	0
		1	24	18.92	18.67	19.12	0	0
		12	0	19.09	18.82	19.25	0-1	0
		12	6	19.09	18.83	19.22	0-1	0
		12	11	19.11	18.85	19.27	0-1	0
		25	0	19.06	18.80	19.17	0-1	0
	16QAM	1	0	19.24	18.92	19.31	0-1	0
		1	12	19.28	18.57	19.23	0-1	0
		1	24	19.30	18.94	19.46	0-1	0
		12	0	19.16	18.89	19.32	0-2	0
		12	6	19.16	18.90	19.35	0-2	0
		12	11	19.14	18.91	19.33	0-2	0
		25	0	19.05	18.80	19.24	0-2	0
	64QAM	1	0	19.41	18.81	19.36	0-2	0
		1	12	19.31	18.83	19.48	0-2	0
		1	24	19.25	18.93	19.36	0-2	0
		12	0	19.11	18.80	19.28	0-3	0
		12	6	19.09	18.89	19.33	0-3	0
		12	11	19.09	18.83	19.33	0-3	0
		25	0	19.07	18.80	19.29	0-3	0
	256QAM	1	0	19.10	19.10	19.31	0-5	0
		1	12	19.13	19.02	19.41	0-5	0
		1	24	19.29	19.04	19.47	0-5	0
		12	0	18.10	17.78	18.24	0-5	1
		12	6	18.21	17.77	18.30	0-5	1
		12	11	18.13	17.77	18.28	0-5	1
		25	0	18.11	17.84	18.22	0-5	1

LTE Band 25 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26090 Ch. 1855 ㎒	26365 Ch. 1882.5 ㎒	26640 Ch. 1910 ㎒		
10 MHz	QPSK	1	0	19.06	18.86	19.20	0	0
		1	24	18.96	18.81	19.24	0	0
		1	49	19.20	18.71	19.28	0	0
		25	0	19.04	18.76	19.20	0-1	0
		25	12	19.06	18.78	19.23	0-1	0
		25	24	19.09	18.79	19.29	0-1	0
		50	0	19.07	18.80	19.28	0-1	0
	16QAM	1	0	19.48	18.76	19.45	0-1	0
		1	24	19.21	18.98	19.47	0-1	0
		1	49	19.46	18.80	19.40	0-1	0
		25	0	19.10	18.78	19.18	0-2	0
		25	12	19.13	18.80	19.27	0-2	0
		25	24	19.14	18.78	19.29	0-2	0
		50	0	19.15	18.78	19.29	0-2	0
	64QAM	1	0	19.37	18.98	19.30	0-2	0
		1	24	19.44	18.99	19.47	0-2	0
		1	49	19.39	19.00	19.48	0-2	0
		25	0	19.11	18.76	19.18	0-3	0
		25	12	19.16	18.77	19.24	0-3	0
		25	24	19.13	18.76	19.27	0-3	0
		50	0	19.19	18.88	19.34	0-3	0
	256QAM	1	0	19.30	18.81	19.21	0-5	0
		1	24	19.39	18.80	19.29	0-5	0
		1	49	19.32	18.78	19.35	0-5	0
		25	0	18.11	17.81	18.19	0-5	1
		25	12	18.13	17.85	18.27	0-5	1
		25	24	18.16	17.82	18.24	0-5	1
		50	0	18.10	17.78	18.25	0-5	1

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	19.02	18.74	19.07	0	0
		1	36	19.04	18.79	19.04	0	0
		1	74	19.25	18.76	19.25	0	0
		36	0	19.09	18.80	19.15	0-1	0
		36	18	19.13	18.83	19.17	0-1	0
		36	39	19.16	18.81	19.23	0-1	0
		75	0	19.07	18.77	19.14	0-1	0
	16QAM	1	0	19.21	18.98	19.30	0-1	0
		1	36	19.48	18.94	19.34	0-1	0
		1	74	19.47	19.04	19.49	0-1	0
		36	0	19.11	18.83	19.17	0-2	0
		36	18	19.18	18.80	19.20	0-2	0
		36	39	19.24	18.78	19.28	0-2	0
		75	0	19.12	18.78	19.15	0-2	0
	64QAM	1	0	19.36	18.94	19.37	0-2	0
		1	36	19.43	19.00	19.34	0-2	0
		1	74	19.15	19.01	19.43	0-2	0
		36	0	19.17	18.84	19.20	0-3	0
		36	18	19.24	18.85	19.27	0-3	0
		36	39	19.26	18.86	19.30	0-3	0
		75	0	19.15	18.78	19.18	0-3	0
	256QAM	1	0	19.20	19.02	19.10	0-5	0
		1	36	19.41	18.83	19.34	0-5	0
		1	74	19.49	18.91	19.46	0-5	0
		36	0	18.14	17.78	18.12	0-5	1
		36	18	18.09	17.78	18.14	0-5	1
		36	39	18.17	17.76	18.24	0-5	1
		75	0	18.16	17.82	18.25	0-5	1

LTE Band 25 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26140 Ch. 1860 ㎒	26365 Ch. 1882.5 ㎒	26590 Ch. 1905 ㎒		
20 MHz	QPSK	1	0	18.98	18.73	19.03	0	0
		1	49	19.06	18.85	19.14	0	0
		1	99	19.12	18.68	19.11	0	0
		50	0	19.09	18.77	19.05	0-1	0
		50	25	19.08	18.76	19.12	0-1	0
		50	49	19.11	18.82	19.10	0-1	0
		100	0	19.08	18.74	19.04	0-1	0
	16QAM	1	0	19.13	19.00	19.07	0-1	0
		1	49	19.11	18.96	19.17	0-1	0
		1	99	19.17	18.76	19.26	0-1	0
		50	0	19.13	18.79	19.09	0-2	0
		50	25	19.23	18.86	19.14	0-2	0
		50	49	19.23	18.77	19.18	0-2	0
		100	0	19.13	18.75	19.05	0-2	0
	64QAM	1	0	18.99	18.93	19.32	0-2	0
		1	49	19.13	18.93	19.15	0-2	0
		1	99	19.19	18.93	19.32	0-2	0
		50	0	19.18	18.85	19.14	0-3	0
		50	25	19.24	18.91	19.20	0-3	0
		50	49	19.27	18.88	19.23	0-3	0
		100	0	19.14	18.77	19.07	0-3	0
	256QAM	1	0	19.17	18.71	18.93	0-5	0
		1	49	19.20	19.00	19.14	0-5	0
		1	99	19.20	18.65	19.06	0-5	0
		50	0	18.15	17.79	18.09	0-5	1
		50	25	18.18	17.80	18.13	0-5	1
		50	49	18.24	17.75	18.14	0-5	1
		100	0	18.21	17.78	18.13	0-5	1

[LTE Band 30 Conducted Power]

LTE Band 30 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				27685 Ch. 2307.5 ㎒	27710 Ch. 2310 ㎒	27735 Ch. 2312.5 ㎒		
5 MHz	QPSK	1	0	16.00	16.19	16.11	0	0
		1	12	16.08	16.19	16.09	0	0
		1	24	15.85	16.25	16.18	0	0
		12	0	16.22	16.39	16.34	0-1	0
		12	6	16.25	16.40	16.33	0-1	0
		12	11	16.25	16.41	16.39	0-1	0
		25	0	16.25	16.35	16.37	0-1	0
	16QAM	1	0	16.43	16.71	16.71	0-1	0
		1	12	16.56	16.75	16.52	0-1	0
		1	24	16.47	16.63	16.55	0-1	0
		12	0	16.33	16.36	16.38	0-2	0
		12	6	16.32	16.36	16.38	0-2	0
		12	11	16.29	16.40	16.37	0-2	0
		25	0	16.35	16.31	16.33	0-2	0
	64QAM	1	0	16.64	16.61	16.39	0-2	0
		1	12	16.63	16.62	16.53	0-2	0
		1	24	16.49	16.56	16.50	0-2	0
		12	0	16.26	16.42	16.45	0-3	0
		12	6	16.31	16.37	16.35	0-3	0
		12	11	16.30	16.37	16.42	0-3	0
		25	0	16.30	16.38	16.33	0-3	0
	256QAM	1	0	16.62	16.56	16.67	0-5	0
		1	12	16.53	16.59	16.70	0-5	0
		1	24	16.54	16.66	16.71	0-5	0
		12	0	16.32	16.42	16.35	0-5	0
		12	6	16.32	16.36	16.37	0-5	0
		12	11	16.27	16.36	16.27	0-5	0
		25	0	16.29	16.38	16.38	0-5	0

LTE Band 30 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm] 27710 Ch. 2310 ㎒	MPR Allowed Per 3GPP [dB]	MPR [dB]
10 MHz	QPSK	1	0	15.96	0	0
		1	24	16.21	0	0
		1	49	15.98	0	0
		25	0	16.28	0-1	0
		25	12	16.28	0-1	0
		25	24	16.30	0-1	0
		50	0	16.33	0-1	0
	16QAM	1	0	16.73	0-1	0
		1	24	16.41	0-1	0
		1	49	16.67	0-1	0
		25	0	16.43	0-2	0
		25	12	16.38	0-2	0
		25	24	16.35	0-2	0
		50	0	16.39	0-2	0
	64QAM	1	0	16.53	0-2	0
		1	24	16.43	0-2	0
		1	49	16.44	0-2	0
		25	0	16.41	0-3	0
		25	12	16.36	0-3	0
		25	24	16.34	0-3	0
		50	0	16.44	0-3	0
	256QAM	1	0	16.55	0-5	0
		1	24	16.71	0-5	0
		1	49	16.51	0-5	0
		25	0	16.40	0-5	0
		25	12	16.39	0-5	0
		25	24	16.38	0-5	0
		50	0	16.41	0-5	0

[LTE TDD Band 38 Conducted Power]

LTE Band 38 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				37775 Ch. 2572.5 ㎒	38000 Ch. 2595 ㎒	38225 Ch. 2617.5 ㎒		
5 MHz	QPSK	1	0	19.98	20.06	20.11	0	0
		1	12	20.18	20.15	20.16	0	0
		1	24	19.98	20.11	20.10	0	0
		12	0	20.05	20.13	20.13	0-1	0
		12	6	20.06	20.13	20.16	0-1	0
		12	11	20.05	20.15	20.14	0-1	0
		25	0	20.09	20.21	20.16	0-1	0
	16QAM	1	0	20.06	20.15	20.08	0-1	0
		1	12	19.76	20.12	20.13	0-1	0
		1	24	19.96	20.10	20.10	0-1	0
		12	0	20.04	20.09	20.10	0-2	0
		12	6	20.03	20.08	20.11	0-2	0
		12	11	19.98	20.08	20.08	0-2	0
		25	0	20.04	20.16	20.16	0-2	0
	64QAM	1	0	20.00	20.22	20.31	0-2	0
		1	12	20.11	20.37	20.38	0-2	0
		1	24	19.99	20.20	20.32	0-2	0
		12	0	19.96	20.07	20.15	0-3	0
		12	6	19.94	20.06	20.14	0-3	0
		12	11	19.92	20.08	20.14	0-3	0
		25	0	20.04	20.15	20.16	0-3	0
	256QAM	1	0	18.55	18.65	18.72	0-5	1
		1	12	18.57	18.68	18.73	0-5	1
		1	24	18.51	18.64	18.71	0-5	1
		12	0	17.67	17.74	17.77	0-5	2
		12	6	17.68	17.74	17.76	0-5	2
		12	11	17.64	17.71	17.72	0-5	2
		25	0	17.98	18.09	18.06	0-5	2

LTE Band 38 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced 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	20.04	20.15	20.12	0	0
		1	24	20.15	20.28	20.25	0	0
		1	49	20.02	20.09	20.08	0	0
		25	0	20.10	20.24	20.17	0-1	0
		25	12	20.10	20.22	20.19	0-1	0
		25	24	20.10	20.20	20.17	0-1	0
		50	0	20.16	20.30	20.24	0-1	0
	16QAM	1	0	19.98	20.09	20.10	0-1	0
		1	24	19.84	19.93	19.97	0-1	0
		1	49	19.92	20.08	20.11	0-1	0
		25	0	20.11	20.19	20.17	0-2	0
		25	12	20.07	20.19	20.20	0-2	0
		25	24	20.07	20.15	20.20	0-2	0
		50	0	20.13	20.25	20.26	0-2	0
	64QAM	1	0	20.06	20.29	20.20	0-2	0
		1	24	19.95	20.25	20.21	0-2	0
		1	49	20.02	20.25	20.20	0-2	0
		25	0	20.09	20.18	20.16	0-3	0
		25	12	20.05	20.16	20.16	0-3	0
		25	24	20.05	20.15	20.17	0-3	0
		50	0	20.18	20.28	20.27	0-3	0
	256QAM	1	0	18.63	18.79	18.83	0-5	1
		1	24	18.60	18.62	18.78	0-5	1
		1	49	18.56	18.69	18.74	0-5	1
		25	0	18.03	18.12	18.12	0-5	2
		25	12	18.01	18.13	18.11	0-5	2
		25	24	18.00	18.11	18.10	0-5	2
		50	0	18.06	18.14	18.15	0-5	2

LTE Band 38 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced 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	20.05	20.12	20.11	0	0
		1	36	20.18	20.20	20.19	0	0
		1	74	20.03	20.11	20.13	0	0
		36	0	20.12	20.21	20.20	0-1	0
		36	18	20.11	20.19	20.20	0-1	0
		36	39	20.10	20.20	20.20	0-1	0
		75	0	20.09	20.20	20.20	0-1	0
	16QAM	1	0	20.09	19.98	20.08	0-1	0
		1	36	19.94	19.94	20.02	0-1	0
		1	74	19.94	20.03	20.10	0-1	0
		36	0	20.09	20.14	20.18	0-2	0
		36	18	20.05	20.12	20.15	0-2	0
		36	39	20.05	20.14	20.17	0-2	0
		75	0	20.09	20.18	20.19	0-2	0
	64QAM	1	0	20.22	20.29	20.32	0-2	0
		1	36	20.28	20.38	20.49	0-2	0
		1	74	20.07	20.26	20.33	0-2	0
		36	0	20.11	20.17	20.19	0-3	0
		36	18	20.08	20.17	20.20	0-3	0
		36	39	20.04	20.16	20.20	0-3	0
		75	0	20.09	20.19	20.21	0-3	0
	256QAM	1	0	18.65	18.79	18.70	0-5	1
		1	36	18.59	18.89	18.76	0-5	1
		1	74	18.58	18.73	18.67	0-5	1
		36	0	17.90	17.98	17.97	0-5	2
		36	18	17.89	17.97	17.98	0-5	2
		36	39	17.86	17.94	17.97	0-5	2
		75	0	18.08	18.18	18.17	0-5	2

LTE Band 38 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				37850 ch. 2580 ㎒	38000 Ch. 2595 ㎒	38150 ch. 2610 ㎒		
20 MHz	QPSK	1	0	20.06	20.16	20.12	0	0
		1	49	20.09	20.29	20.28	0	0
		1	99	20.02	20.09	20.12	0	0
		50	0	20.20	20.29	20.27	0-1	0
		50	25	20.19	20.28	20.25	0-1	0
		50	49	20.19	20.26	20.26	0-1	0
		100	0	20.15	20.23	20.23	0-1	0
	16QAM	1	0	20.08	20.12	20.15	0-1	0
		1	49	19.93	20.06	20.07	0-1	0
		1	99	19.94	20.03	20.02	0-1	0
		50	0	20.20	20.27	20.26	0-2	0
		50	25	20.17	20.25	20.25	0-2	0
		50	49	20.16	20.23	20.24	0-2	0
		100	0	20.17	20.26	20.26	0-2	0
	64QAM	1	0	20.09	20.36	20.26	0-2	0
		1	49	20.02	20.37	20.28	0-2	0
		1	99	19.95	20.32	20.29	0-2	0
		50	0	20.22	20.28	20.29	0-3	0
		50	25	20.21	20.28	20.30	0-3	0
		50	49	20.19	20.26	20.29	0-3	0
		100	0	20.14	20.20	20.22	0-3	0
	256QAM	1	0	18.76	18.75	18.80	0-5	1
		1	49	18.65	18.73	18.78	0-5	1
		1	99	18.64	18.71	18.77	0-5	1
		50	0	18.14	18.18	18.20	0-5	2
		50	25	18.12	18.17	18.21	0-5	2
		50	49	18.10	18.16	18.18	0-5	2
		100	0	18.10	18.15	18.17	0-5	2

[LTE Band 41 Conducted Power] - Power Class 3

LTE Band 41 _ 5 ㎒ Bandwidth - Power Class 3

Band width	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR Allowed Per GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 ㎒	40185 Ch. 2549.5 ㎒	40620 Ch. 2593.0 ㎒	41055 Ch. 2636.5 ㎒	41490 Ch. 2680.0 ㎒		
5 MHz	QPSK	1	0	19.97	20.14	20.36	19.98	19.98	0	0
		1	12	19.79	20.09	20.31	20.01	19.96	0	0
		1	24	19.88	20.20	20.40	19.89	20.04	0	0
		12	0	20.04	20.35	20.55	20.43	20.21	0-1	0
		12	6	20.03	20.34	20.58	20.45	20.24	0-1	0
		12	11	20.06	20.32	20.53	20.43	20.18	0-1	0
		25	0	20.00	20.33	20.59	20.42	20.18	0-1	0
	16QAM	1	0	19.87	20.49	20.66	20.39	20.09	0-1	0
		1	12	19.83	20.33	20.46	20.29	19.83	0-1	0
		1	24	19.85	20.40	20.51	20.29	20.07	0-1	0
		12	0	20.01	20.36	20.54	20.41	20.16	0-2	0
		12	6	20.04	20.34	20.52	20.44	20.13	0-2	0
		12	11	20.03	20.35	20.47	20.38	20.15	0-2	0
		25	0	20.04	20.30	20.52	20.41	20.13	0-2	0
	64QAM	1	0	20.04	20.69	20.59	20.56	20.33	0-2	0
		1	12	20.19	20.70	20.56	20.51	20.41	0-2	0
		1	24	20.09	20.61	20.63	20.55	20.31	0-2	0
		12	0	20.04	20.35	20.49	20.40	20.16	0-3	0
		12	6	20.09	20.32	20.47	20.38	20.17	0-3	0
		12	11	20.05	20.28	20.46	20.38	20.09	0-3	0
		25	0	20.05	20.30	20.56	20.37	20.17	0-3	0
	256QAM	1	0	18.84	19.21	19.24	19.12	18.86	0-5	1
		1	12	18.80	19.28	19.18	19.20	18.93	0-5	1
		1	24	18.78	19.23	19.26	19.14	18.97	0-5	1
		12	0	17.96	18.24	18.33	18.28	17.95	0-5	2
		12	6	17.98	18.22	18.33	18.28	17.97	0-5	2
		12	11	17.93	18.20	18.33	18.28	17.93	0-5	2
		25	0	18.15	18.43	18.65	18.49	18.25	0-5	2

LTE Band 41 _ 10 MHz Bandwidth - Power Class 3

Band width	Modulation	RB Size	RB Offset	Reduced 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	20.08	20.28	20.51	20.44	20.15	0	0
		1	24	19.98	20.21	20.43	20.32	20.08	0	0
		1	49	19.91	20.10	20.33	20.23	19.93	0	0
		25	0	20.08	20.35	20.58	20.41	20.18	0-1	0
		25	12	20.03	20.34	20.56	20.43	20.12	0-1	0
		25	24	20.05	20.29	20.54	20.39	20.11	0-1	0
		50	0	20.06	20.32	20.60	20.40	20.12	0-1	0
	16QAM	1	0	19.98	20.31	20.51	20.26	20.24	0-1	0
		1	24	19.77	20.09	20.41	20.08	20.06	0-1	0
		1	49	19.97	20.24	20.53	20.28	20.05	0-1	0
		25	0	20.04	20.34	20.58	20.41	20.15	0-2	0
		25	12	20.00	20.34	20.53	20.38	20.14	0-2	0
		25	24	19.99	20.27	20.49	20.36	20.11	0-2	0
		50	0	20.08	20.31	20.61	20.41	20.15	0-2	0
	64QAM	1	0	20.13	20.55	20.64	20.37	20.39	0-2	0
		1	24	20.15	20.66	20.59	20.59	20.42	0-2	0
		1	49	20.20	20.59	20.57	20.54	20.33	0-2	0
		25	0	20.05	20.34	20.56	20.39	20.15	0-3	0
		25	12	20.02	20.29	20.55	20.39	20.11	0-3	0
		25	24	20.03	20.32	20.53	20.38	20.10	0-3	0
		50	0	20.13	20.38	20.62	20.45	20.19	0-3	0
	256QAM	1	0	18.94	19.23	19.31	19.21	18.94	0-5	1
		1	24	18.94	19.24	19.24	19.22	18.96	0-5	1
		1	49	18.86	19.18	19.21	19.20	18.95	0-5	1
		25	0	18.14	18.43	18.64	18.51	18.27	0-5	2
		25	12	18.12	18.37	18.62	18.52	18.27	0-5	2
		25	24	18.10	18.40	18.62	18.49	18.25	0-5	2
		50	0	18.19	18.47	18.69	18.55	18.33	0-5	2

LTE Band 41 _ 15 MHz Bandwidth- Power Class 3

Band width	Modulation	RB Size	RB Offset	Reduced 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	19.97	20.22	20.43	20.30	20.08	0	0
		1	36	19.93	20.12	20.38	20.35	20.07	0	0
		1	74	19.94	20.16	20.35	20.25	19.96	0	0
		36	0	20.09	20.37	20.60	20.43	20.18	0-1	0
		36	18	20.03	20.35	20.57	20.40	20.13	0-1	0
		36	39	20.07	20.30	20.54	20.37	20.12	0-1	0
		75	0	20.02	20.29	20.52	20.36	20.13	0-1	0
	16QAM	1	0	20.05	20.31	20.86	20.49	20.03	0-1	0
		1	36	19.95	20.08	20.55	20.28	19.86	0-1	0
		1	74	20.24	20.21	20.72	20.34	19.90	0-1	0
		36	0	20.02	20.37	20.56	20.38	20.18	0-2	0
		36	18	20.01	20.34	20.54	20.37	20.15	0-2	0
		36	39	20.02	20.32	20.53	20.37	20.11	0-2	0
		75	0	20.08	20.32	20.56	20.38	20.12	0-2	0
	64QAM	1	0	20.23	20.40	20.71	20.45	20.27	0-2	0
		1	36	20.29	20.44	20.68	20.61	20.30	0-2	0
		1	74	20.19	20.33	20.68	20.60	20.21	0-2	0
		36	0	20.12	20.38	20.63	20.43	20.16	0-3	0
		36	18	20.11	20.38	20.62	20.41	20.16	0-3	0
		36	39	20.09	20.36	20.58	20.41	20.12	0-3	0
		75	0	20.06	20.35	20.56	20.41	20.14	0-3	0
	256QAM	1	0	18.98	19.33	19.38	19.28	18.93	0-5	2
		1	36	18.99	19.21	19.23	19.24	18.82	0-5	2
		1	74	18.92	19.19	19.24	19.17	18.86	0-5	2
		36	0	18.04	18.33	18.51	18.38	18.14	0-5	2
		36	18	18.02	18.31	18.51	18.36	18.12	0-5	2
		36	39	18.02	18.31	18.48	18.34	18.10	0-5	2
		75	0	18.11	18.42	18.69	18.47	18.24	0-5	2

LTE Band 41 _ 20 ㎒ Bandwidth - Power Class 3

Band width	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR Allowed Per 3GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 ㎒	40185 Ch. 2549.5 ㎒	40620 Ch. 2593.0 ㎒	41055 Ch. 2636.5 ㎒	41490 Ch. 2680.0 ㎒		
20 MHz	QPSK	1	0	20.06	20.28	20.55	20.44	20.15	0	0
		1	49	19.98	20.25	20.45	20.33	20.10	0	0
		1	99	19.90	20.09	20.30	20.21	19.89	0	0
		50	0	20.10	20.36	20.64	20.45	20.21	0-1	0
		50	25	20.07	20.32	20.59	20.43	20.17	0-1	0
		50	49	20.06	20.31	20.55	20.39	20.09	0-1	0
		100	0	20.05	20.30	20.58	20.39	20.12	0-1	0
	16QAM	1	0	20.20	20.36	20.58	20.26	20.13	0-1	0
		1	49	19.91	20.21	20.32	20.06	19.91	0-1	0
		1	99	20.12	20.12	20.30	20.27	19.89	0-1	0
		50	0	20.09	20.37	20.66	20.43	20.21	0-2	0
		50	25	20.06	20.35	20.62	20.42	20.13	0-2	0
		50	49	20.04	20.31	20.55	20.39	20.10	0-2	0
		100	0	20.09	20.35	20.59	20.43	20.15	0-2	0
	64QAM	1	0	20.20	20.46	20.78	20.53	20.38	0-2	0
		1	49	20.23	20.48	20.73	20.49	20.25	0-2	0
		1	99	20.27	20.49	20.58	20.42	20.11	0-2	0
		50	0	20.12	20.44	20.71	20.48	20.21	0-3	0
		50	25	20.12	20.42	20.65	20.46	20.19	0-3	0
		50	49	20.10	20.35	20.62	20.43	20.17	0-3	0
		100	0	20.04	20.31	20.56	20.38	20.11	0-3	0
	256QAM	1	0	18.82	19.20	19.39	19.11	18.95	0-5	1
		1	49	18.88	19.12	19.36	19.15	18.87	0-5	1
		1	99	18.77	19.17	19.21	19.06	18.85	0-5	1
		50	0	18.25	18.53	18.74	18.58	18.37	0-5	2
		50	25	18.24	18.51	18.71	18.56	18.34	0-5	2
		50	49	18.22	18.50	18.68	18.56	18.30	0-5	2
		100	0	18.16	18.46	18.68	18.49	18.28	0-5	2

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 ㎒ Bandwidth - Power Class 2

Band width	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR Allowed Per GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 ㎒	40185 Ch. 2549.5 ㎒	40620 Ch. 2593.0 ㎒	41055 Ch. 2636.5 ㎒	41490 Ch. 2680.0 ㎒		
5 MHz	QPSK	1	0	20.36	20.76	20.94	20.89	20.50	0	0
		1	12	20.51	20.60	20.79	20.97	20.67	0	0
		1	24	20.33	20.68	20.88	20.79	20.43	0	0
		12	0	20.03	20.40	20.63	20.48	20.16	0-1	0
		12	6	20.01	20.35	20.58	20.46	20.15	0-1	0
		12	11	20.03	20.38	20.60	20.41	20.17	0-1	0
		25	0	20.06	20.41	20.63	20.46	20.17	0-1	0
	16QAM	1	0	20.05	20.44	20.94	20.83	20.69	0-1	0
		1	12	19.97	20.64	20.84	20.86	20.76	0-1	0
		1	24	20.09	20.71	20.96	20.84	20.71	0-1	0
		12	0	20.08	20.30	20.64	20.46	20.16	0-2	0
		12	6	20.00	20.34	20.63	20.43	20.13	0-2	0
		12	11	19.96	20.32	20.62	20.45	20.15	0-2	0
		25	0	20.03	20.36	20.61	20.42	20.13	0-2	0
	64QAM	1	0	20.67	20.85	20.64	20.75	20.66	0-2	0
		1	12	20.43	20.97	20.87	20.39	20.17	0-2	0
		1	24	20.71	20.68	20.73	20.98	20.78	0-2	0
		12	0	20.01	20.25	20.48	20.54	20.21	0-3	0
		12	6	20.06	20.24	20.46	20.48	20.20	0-3	0
		12	11	20.09	20.24	20.48	20.53	20.23	0-3	0
		25	0	20.19	20.45	20.69	20.56	20.22	0-3	0
	256QAM	1	0	18.73	19.11	19.48	19.11	18.93	0-5	1
		1	12	18.37	18.98	19.18	19.07	18.88	0-5	1
		1	24	18.70	19.21	19.41	19.12	18.90	0-5	1
		12	0	17.95	18.24	18.46	18.31	17.95	0-5	2
		12	6	18.03	18.31	18.43	18.36	17.92	0-5	2
		12	11	18.03	18.32	18.46	18.36	17.93	0-5	2
		25	0	18.07	18.38	18.45	18.44	18.02	0-5	2

LTE Band 41 _ 10 MHz Bandwidth - Power Class 2

Band width	Modulation	RB Size	RB Offset	Reduced 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	20.49	20.68	20.92	20.87	20.50	0	0
		1	24	20.10	20.57	20.77	20.58	20.28	0	0
		1	49	20.42	20.63	20.86	20.75	20.37	0	0
		25	0	20.17	20.39	20.64	20.50	20.21	0-1	0
		25	12	20.12	20.37	20.58	20.49	20.19	0-1	0
		25	24	20.12	20.35	20.57	20.47	20.12	0-1	0
		50	0	20.07	20.31	20.60	20.43	20.14	0-1	0
	16QAM	1	0	20.76	20.20	20.75	20.97	20.47	0-1	0
		1	24	20.88	20.30	20.72	20.88	20.78	0-1	0
		1	49	20.78	20.14	20.57	20.95	20.55	0-1	0
		25	0	20.20	20.45	20.66	20.43	20.17	0-2	0
		25	12	20.18	20.46	20.63	20.42	20.15	0-2	0
		25	24	20.19	20.45	20.63	20.42	20.12	0-2	0
		50	0	20.08	20.41	20.60	20.42	20.20	0-2	0
	64QAM	1	0	20.62	20.97	20.78	20.87	20.81	0-2	0
		1	24	20.89	20.70	20.94	20.89	20.97	0-2	0
		1	49	20.62	20.64	20.86	20.86	20.65	0-2	0
		25	0	20.15	20.45	20.66	20.56	20.20	0-3	0
		25	12	20.16	20.40	20.59	20.52	20.18	0-3	0
		25	24	20.13	20.37	20.57	20.50	20.14	0-3	0
		50	0	20.12	20.35	20.57	20.42	20.19	0-3	0
	256QAM	1	0	18.80	18.72	19.02	19.25	18.80	0-5	1
		1	24	19.09	18.93	19.04	19.42	18.91	0-5	1
		1	49	18.88	18.72	18.83	19.25	18.69	0-5	1
		25	0	18.11	18.36	18.44	18.41	18.02	0-5	2
		25	12	18.08	18.35	18.44	18.40	17.97	0-5	2
		25	24	18.09	18.35	18.39	18.39	17.98	0-5	2
		50	0	18.21	18.49	18.73	18.62	18.29	0-5	2

LTE Band 41 _ 15 MHz Bandwidth- Power Class 2

Band width	Modulation	RB Size	RB Offset	Reduced 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	20.56	20.85	20.92	20.92	20.88	0	0
		1	36	20.48	20.74	20.78	20.94	20.63	0	0
		1	74	20.48	20.65	20.83	20.75	20.39	0	0
		36	0	20.14	20.40	20.67	20.49	20.20	0-1	0
		36	18	20.11	20.39	20.63	20.49	20.16	0-1	0
		36	39	20.09	20.34	20.59	20.43	20.13	0-1	0
		75	0	20.13	20.35	20.62	20.44	20.14	0-1	0
	16QAM	1	0	20.30	20.68	20.44	20.80	20.38	0-1	0
		1	36	20.41	20.59	20.45	20.59	20.20	0-1	0
		1	74	20.31	20.56	20.35	20.71	20.17	0-1	0
		36	0	20.14	20.35	20.64	20.47	20.19	0-2	0
		36	18	20.14	20.34	20.59	20.46	20.15	0-2	0
		36	39	20.13	20.31	20.55	20.45	20.10	0-2	0
		75	0	20.17	20.34	20.61	20.46	20.14	0-2	0
	64QAM	1	0	20.72	20.64	20.82	20.93	20.41	0-2	0
		1	36	20.50	20.22	20.58	20.56	19.75	0-2	0
		1	74	20.74	20.21	20.82	20.88	20.27	0-2	0
		36	0	20.09	20.30	20.61	20.46	20.13	0-3	0
		36	18	20.07	20.28	20.63	20.42	20.11	0-3	0
		36	39	20.08	20.26	20.58	20.42	20.06	0-3	0
		75	0	20.13	20.42	20.64	20.50	20.19	0-3	0
	256QAM	1	0	18.68	18.95	19.27	19.13	18.66	0-5	1
		1	36	18.30	19.02	18.65	19.08	18.13	0-5	1
		1	74	18.48	18.93	18.91	19.06	18.49	0-5	1
		36	0	18.15	18.40	18.60	18.51	18.19	0-5	2
		36	18	18.14	18.38	18.60	18.46	18.15	0-5	2
		36	39	18.14	18.36	18.56	18.42	18.15	0-5	2
		75	0	18.07	18.36	18.54	18.44	18.12	0-5	2

LTE Band 41 _ 20 ㎒ Bandwidth - Power Class 2

Band width	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR Allowed Per 3GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 ㎒	40185 Ch. 2549.5 ㎒	40620 Ch. 2593.0 ㎒	41055 Ch. 2636.5 ㎒	41490 Ch. 2680.0 ㎒		
20 MHz	QPSK	1	0	20.40	20.74	20.87	20.79	20.55	0	0
		1	49	20.33	20.51	20.75	20.58	20.19	0	0
		1	99	20.37	20.58	20.79	20.67	20.31	0	0
		50	0	20.09	20.36	20.65	20.45	20.19	0-1	0
		50	25	20.07	20.34	20.60	20.39	20.11	0-1	0
		50	49	20.07	20.28	20.57	20.39	20.06	0-1	0
		100	0	20.07	20.35	20.59	20.42	20.11	0-1	0
	16QAM	1	0	20.56	20.48	20.67	20.95	20.10	0-1	0
		1	49	20.59	20.33	20.50	20.94	20.00	0-1	0
		1	99	20.45	20.11	20.31	20.93	19.87	0-1	0
		50	0	20.12	20.41	20.69	20.46	20.20	0-2	0
		50	25	20.10	20.37	20.65	20.43	20.22	0-2	0
		50	49	20.08	20.28	20.62	20.39	20.16	0-2	0
		100	0	20.11	20.40	20.66	20.46	20.21	0-2	0
	64QAM	1	0	20.36	20.92	20.86	20.29	20.84	0-2	0
		1	49	20.71	20.88	20.87	20.58	20.84	0-2	0
		1	99	20.52	20.82	20.75	20.50	20.58	0-2	0
		50	0	20.12	20.39	20.64	20.51	20.19	0-3	0
		50	25	20.11	20.40	20.57	20.43	20.12	0-3	0
		50	49	20.09	20.35	20.51	20.39	20.04	0-3	0
		100	0	20.11	20.35	20.61	20.41	20.16	0-3	0
	256QAM	1	0	18.98	19.17	19.35	19.37	19.08	0-5	1
		1	49	19.06	19.30	19.34	19.23	19.05	0-5	1
		1	99	19.10	19.04	19.15	19.22	18.82	0-5	1
		50	0	18.26	18.52	18.81	18.57	18.36	0-5	2
		50	25	18.25	18.50	18.75	18.60	18.28	0-5	2
		50	49	18.24	18.48	18.76	18.55	18.28	0-5	2
		100	0	18.22	18.46	18.70	18.56	18.25	0-5	2

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

[LTE Band 48 Conducted Power]

LTE Band 48 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55265 Ch. 3552.5 ㎒	55748 Ch. 3600.8 ㎒	6232 Ch. 3649.2 ㎒	56715 Ch. 3697.5 ㎒		
5 MHz	QPSK	1	0	18.49	18.17	18.57	19.33	0	0
		1	12	18.72	18.40	18.69	19.34	0	0
		1	24	18.48	18.23	18.64	19.35	0	0
		12	0	18.53	18.23	18.67	19.38	0-1	0
		12	6	18.56	18.23	18.66	19.40	0-1	0
		12	11	18.55	18.23	18.68	19.39	0-1	0
		25	0	18.57	18.27	18.70	19.45	0-1	0
	16QAM	1	0	18.55	18.12	18.69	19.35	0-1	0
		1	12	18.62	18.34	18.80	19.38	0-1	0
		1	24	18.59	18.14	18.68	19.35	0-1	0
		12	0	18.48	18.19	18.64	19.38	0-2	0
		12	6	18.50	18.17	18.64	19.38	0-2	0
		12	11	18.52	18.19	18.67	19.38	0-2	0
		25	0	18.58	18.26	18.70	19.41	0-2	0
	64QAM	1	0	18.48	18.43	18.74	19.26	0-2	0
		1	12	18.54	18.65	18.80	19.33	0-2	0
		1	24	18.47	18.43	18.71	19.33	0-2	0
		12	0	18.48	18.22	18.65	19.39	0-3	0
		12	6	18.48	18.23	18.66	19.39	0-3	0
		12	11	18.45	18.25	18.69	19.43	0-3	0
		25	0	18.54	18.24	18.71	19.44	0-3	0
	256QAM	1	0	18.24	17.95	18.53	19.19	0-5	0
		1	12	18.13	17.97	18.56	19.25	0-5	0
		1	24	18.24	17.93	18.52	19.20	0-5	0
		12	0	17.56	17.27	17.74	18.42	0-5	1
		12	6	17.52	17.31	17.70	18.44	0-5	1
		12	11	17.50	17.28	17.73	18.43	0-5	1
		25	0	17.62	17.34	17.80	18.48	0-5	1

LTE Band 48 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55290Ch. 3555 ㎒	55757 Ch. 3601.7 ㎒	56223 Ch. 3648.3 ㎒	56690 Ch. 3695 ㎒		
10 MHz	QPSK	1	0	18.43	18.19	18.68	19.12	0	0
		1	24	18.57	18.31	18.84	19.22	0	0
		1	49	18.47	18.21	18.68	19.14	0	0
		25	0	18.50	18.25	18.72	19.18	0-1	0
		25	12	18.52	18.26	18.74	19.19	0-1	0
		25	24	18.51	18.28	18.76	19.22	0-1	0
		50	0	18.52	18.29	18.73	19.20	0-1	0
	16QAM	1	0	18.42	18.16	18.68	19.01	0-1	0
		1	24	18.65	18.39	18.80	19.28	0-1	0
		1	49	18.43	18.24	18.73	19.11	0-1	0
		25	0	18.49	18.22	18.70	19.17	0-2	0
		25	12	18.49	18.27	18.71	19.20	0-2	0
		25	24	18.47	18.29	18.72	19.21	0-2	0
		50	0	18.49	18.26	18.72	19.19	0-2	0
	64QAM	1	0	18.44	18.27	18.73	19.35	0-2	0
		1	24	18.35	18.39	18.74	19.45	0-2	0
		1	49	18.40	18.30	18.75	19.37	0-2	0
		25	0	18.52	18.24	18.74	19.16	0-3	0
		25	12	18.52	18.27	18.76	19.19	0-3	0
		25	24	18.50	18.27	18.75	19.20	0-3	0
		50	0	18.55	18.32	18.79	19.23	0-3	0
	256QAM	1	0	18.36	17.97	18.48	18.76	0-5	0
		1	24	18.56	18.29	18.73	19.01	0-5	0
		1	49	18.35	18.01	18.50	18.84	0-5	0
		25	0	17.58	17.34	17.82	18.24	0-5	1
		25	12	17.55	17.35	17.80	18.24	0-5	1
		25	24	17.56	17.35	17.82	18.26	0-5	1
		50	0	17.61	17.38	17.87	18.29	0-5	1

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	18.42	18.16	18.60	19.04	0	0
		1	36	18.44	18.36	18.61	19.09	0	0
		1	74	18.42	18.26	18.69	19.10	0	0
		36	0	18.47	18.26	18.68	19.12	0-1	0
		36	18	18.47	18.31	18.70	19.18	0-1	0
		36	39	18.47	18.30	18.73	19.18	0-1	0
		75	0	18.47	18.29	18.72	19.15	0-1	0
	16QAM	1	0	18.30	18.26	18.53	19.00	0-1	0
		1	36	18.36	18.29	18.70	19.05	0-1	0
		1	74	18.33	18.36	18.56	19.06	0-1	0
		36	0	18.45	18.26	18.69	19.10	0-2	0
		36	18	18.44	18.26	18.70	19.11	0-2	0
		36	39	18.43	18.29	18.71	19.14	0-2	0
		75	0	18.47	18.27	18.73	19.16	0-2	0
	64QAM	1	0	18.41	18.29	18.64	19.14	0-2	0
		1	36	18.40	18.44	18.70	19.13	0-2	0
		1	74	18.42	18.38	18.70	19.24	0-2	0
		36	0	18.47	18.25	18.68	19.15	0-3	0
		36	18	18.46	18.29	18.72	19.15	0-3	0
		36	39	18.45	18.29	18.73	19.18	0-3	0
		75	0	18.49	18.31	18.75	19.18	0-3	0
	256QAM	1	0	18.31	18.00	18.27	18.76	0-5	0
		1	36	18.22	18.07	18.41	18.81	0-5	0
		1	74	18.23	18.10	18.30	18.86	0-5	0
		36	0	17.51	17.30	17.76	18.19	0-5	1
		36	18	17.53	17.34	17.79	18.23	0-5	1
		36	39	17.52	17.34	17.80	18.23	0-5	1
		75	0	17.51	17.33	17.77	18.20	0-5	1

LTE Band 48 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55340Ch. 3560.0 ㎒	55773 Ch. 3603.3 ㎒	56207 Ch. 3646.7 ㎒	56640 Ch. 3690.0 ㎒		
20 MHz	QPSK	1	0	18.29	18.21	18.61	18.94	0	0
		1	49	18.27	18.38	18.80	19.15	0	0
		1	99	18.36	18.27	18.67	19.10	0	0
		50	0	18.43	18.29	18.69	19.08	0-1	0
		50	25	18.46	18.32	18.71	19.11	0-1	0
		50	49	18.43	18.33	18.74	19.15	0-1	0
		100	0	18.43	18.30	18.70	19.12	0-1	0
	16QAM	1	0	18.26	18.25	18.56	18.94	0-1	0
		1	49	18.61	18.35	18.93	19.36	0-1	0
		1	99	18.29	18.29	18.65	19.12	0-1	0
		50	0	18.42	18.26	18.67	19.08	0-2	0
		50	25	18.44	18.29	18.72	19.11	0-2	0
		50	49	18.43	18.31	18.73	19.15	0-2	0
		100	0	18.47	18.33	18.75	19.19	0-2	0
	64QAM	1	0	18.38	18.39	18.74	18.90	0-2	0
		1	49	18.55	18.61	19.00	19.11	0-2	0
		1	99	18.33	18.45	18.81	19.03	0-2	0
		50	0	18.45	18.32	18.73	19.13	0-3	0
		50	25	18.46	18.36	18.78	19.16	0-3	0
		50	49	18.46	18.35	18.77	19.21	0-3	0
		100	0	18.45	18.32	18.72	19.15	0-3	0
	256QAM	1	0	18.23	17.96	18.37	18.77	0-5	0
		1	49	18.48	18.35	18.67	19.16	0-5	0
		1	99	18.21	18.14	18.50	18.92	0-5	0
		50	0	17.53	17.36	17.79	18.19	0-5	1
		50	25	17.54	17.42	17.85	18.25	0-5	1
		50	49	17.54	17.43	17.84	18.27	0-5	1
		100	0	17.47	17.33	17.74	18.17	0-5	1

[LTE Band 66 Conducted Power]

LTE Band 66 _ 1.4 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131979Ch. 1710.7 ㎒	132322 Ch. 1745 ㎒	132665 Ch. 1779.3 ㎒		
1.4 MHz	QPSK	1	0	19.61	19.41	19.42	0	0
		1	3	19.52	19.41	19.44	0	0
		1	5	19.63	19.55	19.55	0	0
		3	0	19.64	19.52	19.59	0	0
		3	1	18.49	19.34	19.44	0	0
		3	3	18.54	19.49	19.56	0	0
		6	0	18.60	19.59	19.63	0-1	0
	16QAM	1	0	18.84	19.74	19.78	0-1	0
		1	3	18.82	19.61	19.69	0-1	0
		1	5	18.83	19.75	19.78	0-1	0
		3	0	18.70	19.58	19.68	0-1	0
		3	1	18.63	19.58	19.62	0-1	0
		3	3	18.67	19.60	19.62	0-1	0
		6	0	18.65	19.58	19.68	0-2	0
	64QAM	1	0	18.83	19.77	19.63	0-2	0
		1	3	18.65	19.60	19.73	0-2	0
		1	5	18.80	19.70	19.78	0-2	0
		3	0	18.61	19.59	19.68	0-2	0
		3	1	18.55	19.56	19.74	0-2	0
		3	3	18.61	19.61	19.64	0-2	0
		6	0	18.62	19.59	19.63	0-3	0
	256QAM	1	0	18.21	19.04	19.23	0-5	0
		1	3	18.10	19.06	18.97	0-5	0
		1	5	18.21	19.13	19.19	0-5	0
		3	0	18.19	18.76	18.78	0-5	0
		3	1	18.01	18.75	18.78	0-5	0
		3	3	18.15	18.76	18.65	0-5	0
		6	0	17.08	18.07	18.07	0-5	1

LTE Band 66 _ 3 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131987 Ch. 1711.5 ㎒	132322 Ch. 1745 ㎒	132657 Ch. 1778.5 ㎒		
3 MHz	QPSK	1	0	18.89	19.50	19.61	0	0
		1	7	18.90	19.46	19.59	0	0
		1	14	18.90	19.43	19.55	0	0
		8	0	19.15	19.58	19.80	0-1	0
		8	3	19.19	19.66	19.79	0-1	0
		8	7	19.21	19.62	19.80	0-1	0
		15	0	19.18	19.62	19.75	0-1	0
	16QAM	1	0	19.42	19.60	19.79	0-1	0
		1	7	19.33	19.51	19.65	0-1	0
		1	14	19.57	19.78	19.76	0-1	0
		8	0	19.27	19.71	19.71	0-2	0
		8	3	19.31	19.69	19.62	0-2	0
		8	7	19.26	19.62	19.75	0-2	0
		15	0	19.30	19.64	19.76	0-2	0
	64QAM	1	0	19.43	19.78	19.79	0-2	0
		1	7	19.57	19.74	19.65	0-2	0
		1	14	19.43	19.64	19.60	0-2	0
		8	0	19.30	19.60	19.71	0-3	0
		8	3	19.30	19.65	19.63	0-3	0
		8	7	19.27	19.62	19.74	0-3	0
		15	0	19.28	19.64	19.77	0-3	0
	256QAM	1	0	18.81	19.19	19.38	0-5	0
		1	7	18.81	19.25	19.29	0-5	0
		1	14	18.76	19.25	19.37	0-5	0
		8	0	17.67	18.05	18.21	0-5	1
		8	3	17.73	18.06	18.16	0-5	1
		8	7	17.71	18.03	18.19	0-5	1
		15	0	17.68	18.03	18.18	0-5	1

LTE Band 66 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131997 Ch. 1712.5 ㎒	132322Ch. 1745 ㎒	132647 Ch. 1777.5 ㎒		
5 MHz	QPSK	1	0	19.04	19.19	19.38	0	0
		1	12	18.95	19.20	19.43	0	0
		1	24	19.07	19.29	19.52	0	0
		12	0	19.13	19.42	19.61	0-1	0
		12	6	19.17	19.45	19.64	0-1	0
		12	11	19.18	19.45	19.66	0-1	0
		25	0	19.15	19.37	19.63	0-1	0
	16QAM	1	0	19.30	19.75	19.67	0-1	0
		1	12	19.26	19.65	19.77	0-1	0
		1	24	19.35	19.73	19.80	0-1	0
		12	0	19.22	19.48	19.61	0-2	0
		12	6	19.23	19.49	19.64	0-2	0
		12	11	19.21	19.47	19.63	0-2	0
		25	0	19.13	19.41	19.61	0-2	0
	64QAM	1	0	19.28	19.47	19.66	0-2	0
		1	12	19.29	19.55	19.79	0-2	0
		1	24	19.37	19.65	19.80	0-2	0
		12	0	19.22	19.51	19.69	0-3	0
		12	6	19.24	19.46	19.67	0-3	0
		12	11	19.25	19.50	19.71	0-3	0
		25	0	19.11	19.36	19.61	0-3	0
	256QAM	1	0	18.81	18.73	19.22	0-5	0
		1	12	18.78	18.98	19.25	0-5	0
		1	24	18.92	18.98	19.21	0-5	0
		12	0	17.65	17.88	18.05	0-5	1
		12	6	17.64	17.86	18.07	0-5	1
		12	11	17.64	17.91	18.07	0-5	1
		25	0	17.53	17.88	18.05	0-5	1

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	18.83	19.21	19.36	0	0
		1	24	18.98	19.24	19.35	0	0
		1	49	18.95	19.16	19.32	0	0
		25	0	18.99	19.31	19.45	0-1	0
		25	12	19.01	19.32	19.47	0-1	0
		25	24	19.02	19.36	19.51	0-1	0
		50	0	19.02	19.40	19.57	0-1	0
	16QAM	1	0	19.25	19.44	19.49	0-1	0
		1	24	19.34	19.37	19.61	0-1	0
		1	49	19.44	19.64	19.66	0-1	0
		25	0	19.07	19.39	19.55	0-2	0
		25	12	19.07	19.36	19.48	0-2	0
		25	24	19.07	19.40	19.50	0-2	0
		50	0	19.09	19.41	19.59	0-2	0
	64QAM	1	0	19.03	19.52	19.54	0-2	0
		1	24	19.10	19.51	19.56	0-2	0
		1	49	19.08	19.57	19.72	0-2	0
		25	0	19.02	19.37	19.54	0-3	0
		25	12	19.07	19.42	19.51	0-3	0
		25	24	19.11	19.39	19.57	0-3	0
		50	0	19.13	19.46	19.64	0-3	0
	256QAM	1	0	18.43	19.03	19.13	0-5	0
		1	24	18.61	18.98	19.05	0-5	0
		1	49	18.63	19.09	19.14	0-5	0
		25	0	17.55	17.86	17.99	0-5	1
		25	12	17.56	17.83	18.01	0-5	1
		25	24	17.59	17.83	17.98	0-5	1
		50	0	17.54	17.85	18.03	0-5	1

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	18.74	19.16	19.24	0	0
		1	36	18.90	19.24	19.26	0	0
		1	74	18.95	19.27	19.31	0	0
		36	0	18.93	19.37	19.47	0-1	0
		36	18	19.02	19.39	19.49	0-1	0
		36	39	19.01	19.37	19.48	0-1	0
		75	0	18.98	19.33	19.42	0-1	0
	16QAM	1	0	19.04	19.53	19.64	0-1	0
		1	36	19.19	19.42	19.60	0-1	0
		1	74	19.33	19.38	19.65	0-1	0
		36	0	19.08	19.39	19.49	0-2	0
		36	18	19.09	19.38	19.54	0-2	0
		36	39	19.11	19.41	19.56	0-2	0
		75	0	19.02	19.38	19.48	0-2	0
	64QAM	1	0	19.10	19.53	19.69	0-2	0
		1	36	19.16	19.68	19.72	0-2	0
		1	74	19.23	19.50	19.66	0-2	0
		36	0	19.13	19.40	19.56	0-3	0
		36	18	19.13	19.45	19.56	0-3	0
		36	39	19.16	19.43	19.57	0-3	0
		75	0	19.05	19.39	19.50	0-3	0
	256QAM	1	0	18.54	18.88	19.05	0-5	0
		1	36	18.56	19.03	19.07	0-5	0
		1	74	18.63	19.08	19.09	0-5	0
		36	0	17.48	17.83	17.94	0-5	1
		36	18	17.52	17.88	17.94	0-5	1
		36	39	17.55	17.86	17.98	0-5	1
		75	0	17.51	17.85	17.96	0-5	1

LTE Band 66 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132072 Ch. 1720 ㎒	132322 Ch. 1745 ㎒	132572 Ch. 1770 ㎒		
20 MHz	QPSK	1	0	18.74	19.11	19.28	0	0
		1	49	19.07	19.36	19.30	0	0
		1	99	18.96	19.18	19.29	0	0
		50	0	18.95	19.37	19.51	0-1	0
		50	25	19.02	19.39	19.51	0-1	0
		50	49	19.07	19.52	19.35	0-1	0
		100	0	18.98	19.33	19.45	0-1	0
	16QAM	1	0	19.15	19.34	19.60	0-1	0
		1	49	19.18	19.53	19.60	0-1	0
		1	99	19.48	19.65	19.58	0-1	0
		50	0	19.05	19.36	19.56	0-2	0
		50	25	19.10	19.41	19.60	0-2	0
		50	49	19.09	19.41	19.55	0-2	0
		100	0	19.07	19.33	19.46	0-2	0
	64QAM	1	0	19.13	19.47	19.65	0-2	0
		1	49	19.30	19.74	19.79	0-2	0
		1	99	19.38	19.48	19.67	0-2	0
		50	0	19.06	19.36	19.55	0-3	0
		50	25	19.12	19.40	19.56	0-3	0
		50	49	19.13	19.42	19.52	0-3	0
		100	0	19.04	19.34	19.50	0-3	0
	256QAM	1	0	18.59	18.79	19.09	0-5	0
		1	49	18.69	19.04	19.06	0-5	0
		1	99	18.65	19.01	19.02	0-5	0
		50	0	17.56	17.84	18.02	0-5	1
		50	25	17.55	17.88	18.01	0-5	1
		50	49	17.59	17.86	17.99	0-5	1
		100	0	17.55	17.85	17.97	0-5	1

11.3.3 LTE Reduced Conducted Power(Grip Sensor on, Earjack)

[LTE Band 2 Conducted Power]

LTE Band 2 _ 1.4 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18607 Ch. 1850.7 ㎒	18900 Ch. 1880 ㎒	19193 Ch. 1909.3 ㎒		
1.4 MHz	QPSK	1	0	19.33	19.03	19.53	0	0
		1	3	19.39	18.98	19.56	0	0
		1	5	19.48	19.08	19.68	0	0
		3	0	19.54	19.15	19.70	0	0
		3	1	19.35	18.99	19.57	0	0
		3	3	19.46	19.03	19.73	0	0
		6	0	19.50	19.18	19.77	0-1	0
	16QAM	1	0	19.62	19.31	19.83	0-1	0
		1	3	19.51	19.28	19.76	0-1	0
		1	5	19.74	19.29	19.89	0-1	0
		3	0	19.55	19.19	19.74	0-1	0
		3	1	19.55	19.23	19.63	0-1	0
		3	3	19.60	19.28	19.79	0-1	0
		6	0	19.59	19.19	19.75	0-2	0
	64QAM	1	0	19.65	19.37	19.84	0-2	0
		1	3	19.51	19.21	19.79	0-2	0
		1	5	19.65	19.31	19.92	0-2	0
		3	0	19.54	19.19	19.76	0-2	0
		3	1	19.40	19.21	19.72	0-2	0
		3	3	19.48	19.22	19.70	0-2	0
		6	0	19.48	19.23	19.70	0-3	0
	256QAM	1	0	19.62	19.18	19.72	0-5	0
		1	3	19.44	19.10	19.66	0-5	0
		1	5	19.69	19.17	19.75	0-5	0
		3	0	19.55	19.22	19.72	0-5	0
		3	1	19.54	19.08	19.68	0-5	0
		3	3	19.62	19.19	19.74	0-5	0
		6	0	18.51	18.13	18.74	0-5	1

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	19.15	19.03	19.57	0	0
		1	7	19.30	18.88	19.52	0	0
		1	14	19.20	18.90	19.48	0	0
		8	0	19.48	19.16	19.70	0-1	0
		8	3	19.54	19.15	19.68	0-1	0
		8	7	19.54	19.18	19.71	0-1	0
		15	0	19.52	19.13	19.74	0-1	0
	16QAM	1	0	19.76	19.32	19.88	0-1	0
		1	7	19.53	19.18	19.88	0-1	0
		1	14	19.67	19.36	20.02	0-1	0
		8	0	19.51	19.24	19.68	0-2	0
		8	3	19.48	19.26	19.76	0-2	0
		8	7	19.51	19.19	19.77	0-2	0
		15	0	19.53	19.15	19.72	0-2	0
	64QAM	1	0	19.66	19.32	19.69	0-2	0
		1	7	19.68	19.23	19.63	0-2	0
		1	14	19.79	19.13	19.81	0-2	0
		8	0	19.54	19.05	19.67	0-3	0
		8	3	19.57	19.10	19.71	0-3	0
		8	7	19.50	19.06	19.75	0-3	0
		15	0	19.46	19.17	19.72	0-3	0
	256QAM	1	0	19.76	19.34	19.71	0-5	0
		1	7	19.56	19.20	19.84	0-5	0
		1	14	19.68	19.37	19.67	0-5	0
		8	0	18.42	17.98	18.50	0-5	1
		8	3	18.38	18.01	18.57	0-5	1
		8	7	18.42	17.98	18.58	0-5	1
		15	0	18.50	18.13	18.71	0-5	1

LTE Band 2 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18625 Ch. 1852.5 ㎒	18900 Ch. 1880 ㎒	19175 Ch. 1907.5 ㎒		
5 MHz	QPSK	1	0	19.09	18.93	19.45	0	0
		1	12	19.20	18.96	19.36	0	0
		1	24	19.11	18.97	19.56	0	0
		12	0	19.53	19.18	19.66	0-1	0
		12	6	19.56	19.18	19.71	0-1	0
		12	11	19.52	19.17	19.71	0-1	0
		25	0	19.52	19.13	19.68	0-1	0
	16QAM	1	0	19.60	19.12	19.95	0-1	0
		1	12	19.60	19.25	19.80	0-1	0
		1	24	19.65	19.37	19.93	0-1	0
		12	0	19.53	19.24	19.64	0-2	0
		12	6	19.53	19.22	19.70	0-2	0
		12	11	19.59	19.19	19.71	0-2	0
		25	0	19.59	19.14	19.73	0-2	0
	64QAM	1	0	19.58	19.41	19.62	0-2	0
		1	12	19.72	19.44	19.72	0-2	0
		1	24	19.73	19.46	19.88	0-2	0
		12	0	19.56	19.21	19.65	0-3	0
		12	6	19.49	19.18	19.74	0-3	0
		12	11	19.51	19.19	19.73	0-3	0
		25	0	19.55	19.13	19.70	0-3	0
	256QAM	1	0	19.72	19.36	19.74	0-5	0
		1	12	19.70	19.37	19.73	0-5	0
		1	24	19.77	19.23	19.94	0-5	0
		12	0	18.52	18.19	18.65	0-5	1
		12	6	18.55	18.16	18.68	0-5	1
		12	11	18.56	18.16	18.67	0-5	1
		25	0	18.54	18.14	18.64	0-5	1

LTE Band 2 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18650 Ch. 1855 ㎒	18900 Ch. 1880 ㎒	19150 Ch. 1905 ㎒		
10 MHz	QPSK	1	0	19.09	18.98	19.44	0	0
		1	24	19.16	19.02	19.42	0	0
		1	49	19.24	18.93	19.48	0	0
		25	0	19.53	19.08	19.53	0-1	0
		25	12	19.55	19.09	19.56	0-1	0
		25	24	19.58	19.10	19.56	0-1	0
		50	0	19.60	19.13	19.58	0-1	0
	16QAM	1	0	19.74	19.27	19.67	0-1	0
		1	24	19.68	19.22	19.54	0-1	0
		1	49	19.87	19.33	19.72	0-1	0
		25	0	19.54	19.19	19.56	0-2	0
		25	12	19.60	19.20	19.55	0-2	0
		25	24	19.59	19.14	19.55	0-2	0
		50	0	19.64	19.21	19.60	0-2	0
	64QAM	1	0	19.56	19.36	19.80	0-2	0
		1	24	19.69	19.35	19.73	0-2	0
		1	49	19.69	19.32	19.75	0-2	0
		25	0	19.50	19.11	19.54	0-3	0
		25	12	19.58	19.10	19.57	0-3	0
		25	24	19.56	19.13	19.56	0-3	0
		50	0	19.65	19.17	19.65	0-3	0
	256QAM	1	0	19.62	19.46	19.58	0-5	0
		1	24	19.77	19.47	19.56	0-5	0
		1	49	19.82	19.40	19.76	0-5	0
		25	0	18.54	18.13	18.57	0-5	1
		25	12	18.58	18.16	18.55	0-5	1
		25	24	18.56	18.14	18.57	0-5	1
		50	0	18.59	18.15	18.55	0-5	1

LTE Band 2 _ 15 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18675 Ch. 1857.5 ㎒	18900 Ch. 1880 ㎒	19125 Ch. 1902.5 ㎒		
15 MHz	QPSK	1	0	19.29	18.90	19.28	0	0
		1	36	19.44	18.94	19.25	0	0
		1	74	19.46	18.93	19.34	0	0
		36	0	19.51	19.10	19.43	0-1	0
		36	18	19.55	19.13	19.48	0-1	0
		36	39	19.62	19.13	19.53	0-1	0
		75	0	19.50	19.08	19.44	0-1	0
	16QAM	1	0	19.72	19.08	19.73	0-1	0
		1	36	19.86	18.99	19.79	0-1	0
		1	74	19.95	19.06	19.70	0-1	0
		36	0	19.54	19.17	19.44	0-2	0
		36	18	19.57	19.12	19.46	0-2	0
		36	39	19.66	19.14	19.53	0-2	0
		75	0	19.54	19.12	19.43	0-2	0
	64QAM	1	0	19.71	19.30	19.75	0-2	0
		1	36	19.67	19.41	19.51	0-2	0
		1	74	19.69	19.31	19.60	0-2	0
		36	0	19.59	19.19	19.50	0-3	0
		36	18	19.61	19.20	19.55	0-3	0
		36	39	19.68	19.17	19.53	0-3	0
		75	0	19.57	19.14	19.45	0-3	0
	256QAM	1	0	19.55	19.23	19.56	0-5	0
		1	36	19.68	19.18	19.62	0-5	0
		1	74	19.88	19.22	19.61	0-5	0
		36	0	18.52	18.14	18.46	0-5	1
		36	18	18.53	18.13	18.46	0-5	1
		36	39	18.63	18.10	18.45	0-5	1
		75	0	18.58	18.15	18.49	0-5	1

LTE Band 2 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18700 Ch. 1860 ㎒	18900 Ch. 1880 ㎒	19100 Ch. 1900 ㎒		
20 MHz	QPSK	1	0	19.19	18.86	19.15	0	0
		1	49	19.44	18.98	19.21	0	0
		1	99	19.35	18.86	19.13	0	0
		50	0	19.55	19.05	19.33	0-1	0
		50	25	19.58	19.11	19.39	0-1	0
		50	49	19.62	19.10	19.36	0-1	0
		100	0	19.51	19.06	19.32	0-1	0
	16QAM	1	0	19.54	19.22	19.49	0-1	0
		1	49	19.54	19.08	19.52	0-1	0
		1	99	19.79	19.13	19.35	0-1	0
		50	0	19.58	19.14	19.36	0-2	0
		50	25	19.61	19.22	19.40	0-2	0
		50	49	19.64	19.18	19.41	0-2	0
		100	0	19.53	19.09	19.35	0-2	0
	64QAM	1	0	19.64	19.24	19.43	0-2	0
		1	49	19.65	19.24	19.56	0-2	0
		1	99	19.61	19.14	19.50	0-2	0
		50	0	19.57	19.15	19.45	0-3	0
		50	25	19.66	19.20	19.48	0-3	0
		50	49	19.64	19.17	19.45	0-3	0
		100	0	19.52	19.08	19.34	0-3	0
	256QAM	1	0	19.57	19.23	19.44	0-5	0
		1	49	19.88	19.28	19.48	0-5	0
		1	99	19.83	19.02	19.26	0-5	0
		50	0	18.52	18.11	18.30	0-5	1
		50	25	18.59	18.14	18.36	0-5	1
		50	49	18.60	18.12	18.40	0-5	1
		100	0	18.57	18.08	18.38	0-5	1

[LTE Band 4 Conducted Power]

LTE Band 4 _ 1.4 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19957 Ch. 1710.7 ㎒	20175 Ch. 1732.5 ㎒	20393 Ch. 1754.3 ㎒		
1.4 MHz	QPSK	1	0	17.42	17.57	18.30	0	0
		1	3	17.32	17.56	18.34	0	0
		1	5	17.49	17.66	18.42	0	0
		3	0	17.59	17.72	18.41	0-1	0
		3	1	17.44	17.54	18.32	0-1	0
		3	3	17.59	17.66	18.43	0-1	0
		6	0	17.58	17.70	18.43	0-1	0
	16QAM	1	0	17.98	17.87	18.59	0-1	0
		1	3	17.68	17.68	18.56	0-1	0
		1	5	17.82	17.84	18.56	0-1	0
		3	0	17.66	17.70	18.44	0-2	0
		3	1	17.77	17.84	18.51	0-2	0
		3	3	17.75	17.81	18.52	0-2	0
		6	0	17.76	17.84	18.55	0-2	0
	64QAM	1	0	17.81	17.97	18.70	0-2	0
		1	3	17.78	17.76	18.47	0-2	0
		1	5	17.79	17.90	18.57	0-2	0
		3	0	17.64	17.79	18.58	0-3	0
		3	1	17.74	17.76	18.51	0-3	0
		3	3	17.67	17.70	18.54	0-3	0
		6	0	17.62	17.73	18.45	0-3	0
	256QAM	1	0	17.66	17.84	18.62	0-5	0
		1	3	17.59	17.70	18.43	0-5	0
		1	5	17.72	17.66	18.54	0-5	0
		3	0	17.69	17.77	18.52	0-5	0
		3	1	17.60	17.67	18.49	0-5	0
		3	3	17.68	17.76	18.55	0-5	0
		6	0	17.09	17.25	18.01	0-5	1

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	17.43	17.57	18.32	0	0
		1	7	17.50	17.47	18.21	0	0
		1	14	17.52	17.52	18.19	0	0
		8	0	17.57	17.76	18.43	0-1	0
		8	3	17.55	17.71	18.47	0-1	0
		8	7	17.55	17.75	18.44	0-1	0
		15	0	17.60	17.75	18.47	0-1	0
	16QAM	1	0	17.59	17.79	18.56	0-1	0
		1	7	17.64	17.68	18.65	0-1	0
		1	14	17.75	17.98	18.74	0-1	0
		8	0	17.67	17.78	18.50	0-2	0
		8	3	17.59	17.81	18.46	0-2	0
		8	7	17.63	17.85	18.51	0-2	0
		15	0	17.66	17.75	18.51	0-2	0
	64QAM	1	0	17.80	17.73	18.64	0-2	0
		1	7	17.85	18.01	18.39	0-2	0
		1	14	17.79	18.04	18.61	0-2	0
		8	0	17.54	17.71	18.46	0-3	0
		8	3	17.66	17.80	18.54	0-3	0
		8	7	17.69	17.74	18.51	0-3	0
		15	0	17.62	17.75	18.50	0-3	0
	256QAM	1	0	17.80	17.90	18.56	0-5	0
		1	7	17.86	17.85	18.46	0-5	0
		1	14	17.89	17.93	18.54	0-5	0
		8	0	16.97	17.12	17.74	0-5	1
		8	3	17.03	17.13	17.84	0-5	1
		8	7	17.05	17.10	17.77	0-5	1
		15	0	17.07	17.17	17.90	0-5	1

LTE Band 4 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19975 Ch. 1712.5 ㎒	20175 Ch. 1732.5 ㎒	20375 Ch. 1752.5 ㎒		
5 MHz	QPSK	1	0	17.35	17.52	18.20	0	0
		1	12	17.57	17.47	18.17	0	0
		1	24	17.58	17.65	18.28	0	0
		12	0	17.59	17.75	18.42	0-1	0
		12	6	17.58	17.75	18.42	0-1	0
		12	11	17.62	17.79	18.39	0-1	0
		25	0	17.55	17.72	18.40	0-1	0
	16QAM	1	0	17.72	17.67	18.57	0-1	0
		1	12	17.59	17.90	18.69	0-1	0
		1	24	17.65	17.87	18.68	0-1	0
		12	0	17.67	17.78	18.51	0-2	0
		12	6	17.71	17.83	18.50	0-2	0
		12	11	17.72	17.78	18.48	0-2	0
		25	0	17.56	17.76	18.40	0-2	0
	64QAM	1	0	17.84	17.96	18.59	0-2	0
		1	12	17.96	18.03	18.54	0-2	0
		1	24	17.89	17.97	18.60	0-2	0
		12	0	17.63	17.72	18.45	0-3	0
		12	6	17.62	17.73	18.50	0-3	0
		12	11	17.63	17.75	18.48	0-3	0
		25	0	17.59	17.69	18.44	0-3	0
	256QAM	1	0	17.82	17.80	18.59	0-5	0
		1	12	17.68	17.74	18.55	0-5	0
		1	24	17.87	17.89	18.52	0-5	0
		12	0	17.08	17.23	17.91	0-5	1
		12	6	17.04	17.27	17.91	0-5	1
		12	11	17.04	17.23	17.91	0-5	1
		25	0	17.04	17.27	17.96	0-5	1

LTE Band 4 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20000 Ch. 1715 ㎒	20175 Ch. 1732.5 ㎒	20350 Ch. 1750 ㎒		
10 MHz	QPSK	1	0	17.32	17.51	18.25	0	0
		1	24	17.54	17.58	18.22	0	0
		1	49	17.49	17.56	18.16	0	0
		25	0	17.48	17.65	18.34	0-1	0
		25	12	17.50	17.75	18.34	0-1	0
		25	24	17.51	17.75	18.33	0-1	0
		50	0	17.51	17.72	18.36	0-1	0
	16QAM	1	0	17.76	18.03	18.56	0-1	0
		1	24	17.49	17.84	18.58	0-1	0
		1	49	17.84	18.12	18.64	0-1	0
		25	0	17.55	17.73	18.38	0-2	0
		25	12	17.57	17.72	18.37	0-2	0
		25	24	17.57	17.76	18.40	0-2	0
		50	0	17.59	17.79	18.38	0-2	0
	64QAM	1	0	17.78	17.91	18.58	0-2	0
		1	24	17.88	17.85	18.64	0-2	0
		1	49	17.89	18.00	18.66	0-2	0
		25	0	17.50	17.72	18.38	0-3	0
		25	12	17.54	17.74	18.38	0-3	0
		25	24	17.56	17.75	18.42	0-3	0
		50	0	17.64	17.79	18.45	0-3	0
	256QAM	1	0	17.85	17.88	18.47	0-5	0
		1	24	17.93	17.92	18.45	0-5	0
		1	49	17.80	17.89	18.27	0-5	0
		25	0	17.01	17.22	17.89	0-5	1
		25	12	17.08	17.24	17.90	0-5	1
		25	24	17.08	17.29	17.83	0-5	1
		50	0	17.02	17.28	17.89	0-5	1

LTE Band 4 _ 15 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20025 Ch. 1717.5 ㎒	20175 Ch. 1732.5 ㎒	20325 Ch. 1747.5 ㎒		
15 MHz	QPSK	1	0	17.34	17.42	18.02	0	0
		1	36	17.37	17.50	18.05	0	0
		1	74	17.37	17.60	18.08	0	0
		36	0	17.47	17.71	18.29	0-1	0
		36	18	17.49	17.73	18.29	0-1	0
		36	39	17.55	17.77	18.26	0-1	0
		75	0	17.44	17.73	18.22	0-1	0
	16QAM	1	0	17.62	17.85	18.28	0-1	0
		1	36	17.48	17.86	18.53	0-1	0
		1	74	17.64	17.88	18.57	0-1	0
		36	0	17.56	17.68	18.32	0-2	0
		36	18	17.53	17.71	18.29	0-2	0
		36	39	17.61	17.75	18.32	0-2	0
		75	0	17.54	17.78	18.29	0-2	0
	64QAM	1	0	17.65	17.70	18.51	0-2	0
		1	36	17.80	17.82	18.46	0-2	0
		1	74	17.87	17.66	18.51	0-2	0
		36	0	17.60	17.78	18.34	0-3	0
		36	18	17.62	17.81	18.39	0-3	0
		36	39	17.63	17.84	18.34	0-3	0
		75	0	17.54	17.74	18.24	0-3	0
	256QAM	1	0	17.65	17.76	18.44	0-5	0
		1	36	17.77	17.85	18.43	0-5	0
		1	74	17.75	17.83	18.48	0-5	0
		36	0	17.01	17.19	17.75	0-5	1
		36	18	17.02	17.21	17.73	0-5	1
		36	39	17.04	17.25	17.73	0-5	1
		75	0	17.06	17.26	17.78	0-5	1

LTE Band 4 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm] 20175 Ch. 1732.5 ㎒	MPR Allowed Per 3GPP [dB]	MPR [dB]
20 MHz	QPSK	1	0	17.55	0	0
		1	49	17.65	0	0
		1	99	17.60	0	0
		50	0	17.60	0-1	0
		50	25	17.65	0-1	0
		50	49	17.74	0-1	0
		100	0	17.66	0-1	0
	16QAM	1	0	17.78	0-1	0
		1	49	17.87	0-1	0
		1	99	17.80	0-1	0
		50	0	17.69	0-2	0
		50	25	17.74	0-2	0
		50	49	17.75	0-2	0
		100	0	17.69	0-2	0
	64QAM	1	0	17.85	0-2	0
		1	49	18.02	0-2	0
		1	99	17.99	0-2	0
		50	0	17.65	0-3	0
		50	25	17.75	0-3	0
		50	49	17.77	0-3	0
		100	0	17.71	0-3	0
	256QAM	1	0	17.86	0-5	0
		1	49	17.96	0-5	0
		1	99	17.93	0-5	0
		50	0	17.14	0-5	1
		50	25	17.24	0-5	1
		50	49	17.26	0-5	1
		100	0	17.22	0-5	1

[LTE Band 7 Conducted]

LTE Band 7 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20775 Ch. 2502.5 ㎒	21100 Ch. 2535 ㎒	21425 Ch. 2567.5 ㎒		
5 MHz	QPSK	1	0	20.61	20.30	20.71	0	0
		1	12	20.49	20.30	20.71	0	0
		1	24	20.50	20.29	20.71	0	0
		12	0	20.62	20.45	20.90	0-1	0
		12	6	20.62	20.41	20.87	0-1	0
		12	11	20.58	20.47	20.88	0-1	0
		25	0	20.69	20.49	20.92	0-1	0
	16QAM	1	0	20.49	20.54	20.94	0-1	0
		1	12	20.50	20.31	20.87	0-1	0
		1	24	20.57	20.41	20.96	0-1	0
		12	0	20.43	20.41	20.88	0-2	0
		12	6	20.47	20.42	20.83	0-2	0
		12	11	20.47	20.42	20.76	0-2	0
		25	0	20.57	20.47	20.82	0-2	0
	64QAM	1	0	20.50	20.62	20.78	0-2	0
		1	12	20.67	20.54	20.97	0-2	0
		1	24	20.71	20.54	20.80	0-2	0
		12	0	20.42	20.37	20.76	0-3	0
		12	6	20.43	20.32	20.77	0-3	0
		12	11	20.47	20.32	20.70	0-3	0
		25	0	20.57	20.41	20.80	0-3	0
	256QAM	1	0	19.53	19.66	19.83	0-5	1
		1	12	19.50	19.53	19.81	0-5	1
		1	24	19.56	19.57	19.86	0-5	1
		12	0	18.41	18.42	18.74	0-5	2
		12	6	18.43	18.43	18.75	0-5	2
		12	11	18.43	18.46	18.70	0-5	2
		25	0	18.61	18.49	18.96	0-5	2

LTE Band 7_ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20800 Ch. 2505 ㎒	21100 Ch. 2535 ㎒	21400 Ch. 2565 ㎒		
10 MHz	QPSK	1	0	20.65	20.41	20.78	0	0
		1	24	20.55	20.33	20.74	0	0
		1	49	20.41	20.15	20.56	0	0
		25	0	20.74	20.53	20.99	0-1	0
		25	12	20.69	20.51	20.96	0-1	0
		25	24	20.70	20.48	20.91	0-1	0
		50	0	20.71	20.49	20.98	0-1	0
	16QAM	1	0	20.66	20.72	20.83	0-1	0
		1	24	20.73	20.60	20.82	0-1	0
		1	49	20.71	20.52	20.84	0-1	0
		25	0	20.61	20.49	20.87	0-2	0
		25	12	20.56	20.51	20.85	0-2	0
		25	24	20.56	20.46	20.82	0-2	0
		50	0	20.64	20.47	20.91	0-2	0
	64QAM	1	0	20.52	20.56	20.93	0-2	0
		1	24	20.74	20.39	20.97	0-2	0
		1	49	20.61	20.33	20.77	0-2	0
		25	0	20.55	20.44	20.81	0-3	0
		25	12	20.58	20.45	20.80	0-3	0
		25	24	20.50	20.40	20.80	0-3	0
		50	0	20.63	20.48	20.89	0-3	0
	256QAM	1	0	19.45	19.33	19.76	0-5	1
		1	24	19.65	19.40	19.62	0-5	1
		1	49	19.44	19.27	19.64	0-5	1
		25	0	18.63	18.57	18.92	0-5	2
		25	12	18.61	18.54	18.91	0-5	2
		25	24	18.62	18.57	18.85	0-5	2
		50	0	18.69	18.60	18.96	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	20.59	20.31	20.71	0	0
		1	36	20.54	20.31	20.62	0	0
		1	74	20.41	20.17	20.51	0	0
		36	0	20.70	20.50	20.89	0-1	0
		36	18	20.67	20.50	20.85	0-1	0
		36	39	20.61	20.42	20.80	0-1	0
		75	0	20.68	20.46	20.90	0-1	0
	16QAM	1	0	20.57	20.49	20.96	0-1	0
		1	36	20.48	20.36	20.89	0-1	0
		1	74	20.58	20.49	20.68	0-1	0
		36	0	20.56	20.42	20.82	0-2	0
		36	18	20.54	20.38	20.79	0-2	0
		36	39	20.50	20.34	20.74	0-2	0
		75	0	20.54	20.40	20.79	0-2	0
	64QAM	1	0	20.58	20.62	20.80	0-2	0
		1	36	20.70	20.66	20.86	0-2	0
		1	74	20.64	20.43	20.74	0-2	0
		36	0	20.55	20.46	20.79	0-3	0
		36	18	20.57	20.44	20.81	0-3	0
		36	39	20.51	20.38	20.71	0-3	0
		75	0	20.56	20.42	20.78	0-3	0
	256QAM	1	0	19.41	19.44	19.80	0-5	1
		1	36	19.59	19.52	19.71	0-5	1
		1	74	19.44	19.37	19.59	0-5	1
		36	0	18.55	18.47	18.79	0-5	2
		36	18	18.57	18.46	18.79	0-5	2
		36	39	18.52	18.42	18.75	0-5	2
		75	0	18.69	18.56	18.91	0-5	2

LTE Band 7 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20850 Ch. 2510 ㎒	21100 Ch. 2535 ㎒	21350 Ch. 2560 ㎒		
20 MHz	QPSK	1	0	20.58	20.40	20.72	0	0
		1	49	20.53	20.34	20.68	0	0
		1	99	20.35	20.13	20.42	0	0
		50	0	20.81	20.61	20.99	0-1	0
		50	25	20.78	20.57	20.94	0-1	0
		50	49	20.74	20.44	20.84	0-1	0
		100	0	20.69	20.46	20.85	0-1	0
	16QAM	1	0	20.72	20.52	20.99	0-1	0
		1	49	20.60	20.48	20.85	0-1	0
		1	99	20.63	20.37	20.59	0-1	0
		50	0	20.64	20.50	20.93	0-2	0
		50	25	20.70	20.51	20.91	0-2	0
		50	49	20.62	20.37	20.82	0-2	0
		100	0	20.58	20.40	20.75	0-2	0
	64QAM	1	0	20.71	20.44	20.77	0-2	0
		1	49	20.69	20.67	20.99	0-2	0
		1	99	20.56	20.32	20.71	0-2	0
		50	0	20.67	20.53	20.91	0-3	0
		50	25	20.61	20.52	20.84	0-3	0
		50	49	20.61	20.41	20.78	0-3	0
		100	0	20.55	20.41	20.73	0-3	0
	256QAM	1	0	19.50	19.45	19.77	0-5	1
		1	49	19.72	19.62	19.86	0-5	1
		1	99	19.40	19.28	19.63	0-5	1
		50	0	18.67	18.57	18.91	0-5	2
		50	25	18.67	18.58	18.91	0-5	2
		50	49	18.64	18.56	18.84	0-5	2
		100	0	18.69	18.52	18.88	0-5	2

[LTE Band 25 Conducted Power]

LTE Band 25 _ 1.4 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26047 Ch. 1850.7 ㎒	26365 Ch. 1882.5 ㎒	26683 Ch. 1914.3 ㎒		
1.4 MHz	QPSK	1	0	19.01	18.63	19.13	0	0
		1	3	18.80	18.65	19.11	0	0
		1	5	18.93	18.73	19.23	0	0
		3	0	18.99	18.75	19.19	0-1	0
		3	1	18.89	18.67	19.08	0-1	0
		3	3	19.00	18.67	19.13	0-1	0
		6	0	19.01	18.75	19.25	0-1	0
	16QAM	1	0	19.22	18.91	19.46	0-1	0
		1	3	19.19	18.98	19.42	0-1	0
		1	5	19.21	18.86	19.43	0-1	0
		3	0	19.01	18.82	19.22	0-2	0
		3	1	19.10	18.78	19.14	0-2	0
		3	3	19.13	18.86	19.27	0-2	0
		6	0	19.11	18.89	19.33	0-2	0
	64QAM	1	0	19.16	18.94	19.40	0-2	0
		1	3	19.09	18.80	19.30	0-2	0
		1	5	19.11	18.97	19.48	0-2	0
		3	0	19.20	18.76	19.31	0-3	0
		3	1	19.08	18.89	19.25	0-3	0
		3	3	19.16	18.85	19.36	0-3	0
		6	0	19.12	18.82	19.31	0-3	0
	256QAM	1	0	19.20	18.96	19.38	0-5	0
		1	3	19.02	18.78	19.17	0-5	0
		1	5	19.06	18.83	19.35	0-5	0
		3	0	19.14	18.85	19.35	0-5	0
		3	1	19.03	18.85	19.23	0-5	0
		3	3	19.08	18.76	19.32	0-5	0
		6	0	18.06	17.77	18.34	0-5	1

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	26675Ch. 1913.5 MHz		
3 MHz	QPSK	1	0	18.84	18.65	19.04	0	0
		1	7	18.99	18.57	18.98	0	0
		1	14	18.97	18.58	18.99	0	0
		8	0	18.99	18.79	19.20	0-1	0
		8	3	19.04	18.75	19.21	0-1	0
		8	7	19.03	18.75	19.22	0-1	0
		15	0	19.05	18.80	19.20	0-1	0
	16QAM	1	0	19.17	18.92	19.16	0-1	0
		1	7	19.17	18.88	19.29	0-1	0
		1	14	19.26	18.86	19.48	0-1	0
		8	0	19.02	18.84	19.29	0-2	0
		8	3	19.12	18.90	19.33	0-2	0
		8	7	19.11	18.88	19.27	0-2	0
		15	0	19.07	18.82	19.25	0-2	0
	64QAM	1	0	19.33	18.90	19.39	0-2	0
		1	7	19.27	19.17	19.46	0-2	0
		1	14	19.28	19.10	19.49	0-2	0
		8	0	19.05	18.81	19.25	0-3	0
		8	3	19.03	18.80	19.24	0-3	0
		8	7	19.09	18.77	19.31	0-3	0
		15	0	19.03	18.80	19.29	0-3	0
	256QAM	1	0	19.29	18.87	19.32	0-5	0
		1	7	19.34	18.93	19.26	0-5	0
		1	14	19.23	18.90	19.29	0-5	0
		8	0	17.94	17.63	18.13	0-5	1
		8	3	17.94	17.68	18.17	0-5	1
		8	7	17.89	17.69	18.11	0-5	1
		15	0	18.07	17.76	18.26	0-5	1

LTE Band 25 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26065 Ch. 1852.5 ㎒	26365 Ch. 1882.5 ㎒	26665 Ch. 1912.5 ㎒		
5 MHz	QPSK	1	0	18.99	18.79	19.21	0	0
		1	12	19.05	18.77	19.26	0	0
		1	24	19.14	18.88	19.26	0	0
		12	0	19.26	19.06	19.46	0-1	0
		12	6	19.26	19.06	19.48	0-1	0
		12	11	19.31	19.03	19.49	0-1	0
		25	0	19.07	18.79	19.21	0-1	0
	16QAM	1	0	19.29	19.11	19.43	0-1	0
		1	12	19.31	19.00	19.39	0-1	0
		1	24	19.19	18.92	19.30	0-1	0
		12	0	19.11	18.92	19.32	0-2	0
		12	6	19.14	18.87	19.32	0-2	0
		12	11	19.16	18.90	19.32	0-2	0
		25	0	19.12	18.79	19.25	0-2	0
	64QAM	1	0	19.25	18.95	19.35	0-2	0
		1	12	19.41	19.10	19.48	0-2	0
		1	24	19.38	19.05	19.47	0-2	0
		12	0	19.10	18.84	19.32	0-3	0
		12	6	19.08	18.84	19.28	0-3	0
		12	11	19.15	18.83	19.30	0-3	0
		25	0	19.07	18.83	19.27	0-3	0
	256QAM	1	0	19.03	18.81	19.27	0-5	0
		1	12	19.03	18.74	19.17	0-5	0
		1	24	19.13	18.82	19.32	0-5	0
		12	0	18.03	17.78	18.26	0-5	1
		12	6	18.10	17.81	18.26	0-5	1
		12	11	18.05	17.70	18.26	0-5	1
		25	0	18.08	17.79	18.25	0-5	1

LTE Band 25 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26090 Ch. 1855 ㎒	26365 Ch. 1882.5 ㎒	26640 Ch. 1910 ㎒		
10 MHz	QPSK	1	0	18.95	18.93	19.26	0	0
		1	24	19.14	18.97	19.35	0	0
		1	49	19.11	18.97	19.50	0	0
		25	0	19.24	18.95	19.39	0-1	0
		25	12	19.23	18.98	19.35	0-1	0
		25	24	19.30	18.97	19.41	0-1	0
		50	0	19.11	18.77	19.25	0-1	0
	16QAM	1	0	19.37	19.13	19.31	0-1	0
		1	24	19.41	18.73	19.39	0-1	0
		1	49	19.35	18.94	19.46	0-1	0
		25	0	19.05	18.75	19.22	0-2	0
		25	12	19.08	18.76	19.26	0-2	0
		25	24	19.13	18.77	19.28	0-2	0
		50	0	19.12	18.85	19.30	0-2	0
	64QAM	1	0	19.31	19.01	19.37	0-2	0
		1	24	19.43	18.87	19.46	0-2	0
		1	49	19.34	18.77	19.49	0-2	0
		25	0	19.07	18.77	19.15	0-3	0
		25	12	19.10	18.84	19.22	0-3	0
		25	24	19.11	18.81	19.28	0-3	0
		50	0	19.19	18.86	19.28	0-3	0
	256QAM	1	0	19.09	18.89	19.18	0-5	0
		1	24	19.30	18.94	19.37	0-5	0
		1	49	19.19	18.79	19.34	0-5	0
		25	0	18.10	17.82	18.20	0-5	1
		25	12	18.15	17.85	18.27	0-5	1
		25	24	18.16	17.86	18.25	0-5	1
		50	0	18.07	17.80	18.25	0-5	1

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	18.75	18.73	19.06	0	0
		1	36	18.94	18.77	19.15	0	0
		1	74	18.91	18.77	19.30	0	0
		36	0	19.08	18.78	19.11	0-1	0
		36	18	19.13	18.76	19.16	0-1	0
		36	39	19.15	18.80	19.26	0-1	0
		75	0	19.07	18.72	19.11	0-1	0
	16QAM	1	0	19.19	18.96	19.14	0-1	0
		1	36	19.23	18.85	19.11	0-1	0
		1	74	19.19	18.93	19.35	0-1	0
		36	0	19.09	18.78	19.17	0-2	0
		36	18	19.17	18.78	19.21	0-2	0
		36	39	19.21	18.77	19.27	0-2	0
		75	0	19.10	18.79	19.15	0-2	0
	64QAM	1	0	19.17	19.06	19.24	0-2	0
		1	36	19.05	19.05	19.47	0-2	0
		1	74	19.09	18.96	19.44	0-2	0
		36	0	19.16	18.87	19.21	0-3	0
		36	18	19.23	18.90	19.27	0-3	0
		36	39	19.25	18.84	19.32	0-3	0
		75	0	19.10	18.78	19.17	0-3	0
	256QAM	1	0	19.21	18.90	19.13	0-5	0
		1	36	19.38	18.91	19.22	0-5	0
		1	74	19.41	18.83	19.42	0-5	0
		36	0	18.08	17.79	18.13	0-5	1
		36	18	18.14	17.74	18.19	0-5	1
		36	39	18.20	17.74	18.22	0-5	1
		75	0	18.18	17.82	18.23	0-5	1

LTE Band 25 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26140 Ch. 1860 ㎒	26365 Ch. 1882.5 ㎒	26590 Ch. 1905 ㎒		
20 MHz	QPSK	1	0	19.00	18.73	19.01	0	0
		1	49	19.04	18.85	19.14	0	0
		1	99	19.34	18.66	19.10	0	0
		50	0	19.31	18.91	19.22	0-1	0
		50	25	19.37	18.98	19.29	0-1	0
		50	49	19.39	18.95	19.32	0-1	0
		100	0	19.31	18.94	19.25	0-1	0
	16QAM	1	0	19.12	18.95	18.95	0-1	0
		1	49	19.12	18.66	19.22	0-1	0
		1	99	19.02	18.93	19.09	0-1	0
		50	0	19.17	18.78	19.08	0-2	0
		50	25	19.22	18.86	19.12	0-2	0
		50	49	19.23	18.78	19.12	0-2	0
		100	0	19.13	18.80	19.04	0-2	0
	64QAM	1	0	19.17	18.69	19.03	0-2	0
		1	49	19.17	18.93	19.26	0-2	0
		1	99	19.14	18.81	19.25	0-2	0
		50	0	19.20	18.84	19.12	0-3	0
		50	25	19.24	18.86	19.17	0-3	0
		50	49	19.27	18.78	19.17	0-3	0
		100	0	19.12	18.78	19.07	0-3	0
	256QAM	1	0	18.96	18.76	19.08	0-5	0
		1	49	19.14	18.80	19.24	0-5	0
		1	99	19.22	18.70	19.03	0-5	0
		50	0	18.07	17.76	18.05	0-5	1
		50	25	18.16	17.79	18.12	0-5	1
		50	49	18.18	17.75	18.12	0-5	1
		100	0	18.17	17.80	18.12	0-5	1

LTE Band 30 Conducted Power]

LTE Band 30_ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				27685Ch. 2307.5 ㎒	27710Ch. 2310 ㎒	27735Ch. 2312.5 ㎒		
5 MHz	QPSK	1	0	16.03	16.21	16.14	0	0
		1	12	16.11	16.19	16.18	0	0
		1	24	15.90	16.24	16.23	0	0
		12	0	16.27	16.43	16.39	0-1	0
		12	6	16.27	16.43	16.44	0-1	0
		12	11	16.26	16.40	16.44	0-1	0
		25	0	16.29	16.41	16.40	0-1	0
	16QAM	1	0	16.32	16.75	16.68	0-1	0
		1	12	16.65	16.44	16.44	0-1	0
		1	24	16.47	16.46	16.59	0-1	0
		12	0	16.37	16.41	16.48	0-2	0
		12	6	16.39	16.44	16.40	0-2	0
		12	11	16.36	16.44	16.41	0-2	0
		25	0	16.34	16.44	16.40	0-2	0
	64QAM	1	0	16.43	16.62	16.70	0-2	0
		1	12	16.55	16.68	16.54	0-2	0
		1	24	16.46	16.55	16.42	0-2	0
		12	0	16.32	16.42	16.48	0-3	0
		12	6	16.31	16.43	16.49	0-3	0
		12	11	16.30	16.39	16.49	0-3	0
		25	0	16.34	16.37	16.36	0-3	0
	256QAM	1	0	16.53	16.60	16.57	0-5	0
		1	12	16.43	16.64	16.63	0-5	0
		1	24	16.44	16.55	16.69	0-5	0
		12	0	16.33	16.37	16.42	0-5	0
		12	6	16.30	16.39	16.40	0-5	0
		12	11	16.27	16.39	16.36	0-5	0
		25	0	16.33	16.44	16.42	0-5	0

LTE Band 30 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]	MPR Allowed Per 3GPP [dB]	MPR [dB]
				27710 Ch. 2310 ㎒		
10 MHz	QPSK	1	0	16.17	0	0
		1	24	16.28	0	0
		1	49	16.24	0	0
		25	0	16.37	0-1	0
		25	12	16.32	0-1	0
		25	24	16.34	0-1	0
		50	0	16.41	0-1	0
	16QAM	1	0	16.72	0-1	0
		1	24	16.56	0-1	0
		1	49	16.42	0-1	0
		25	0	16.40	0-2	0
		25	12	16.35	0-2	0
		25	24	16.31	0-2	0
		50	0	16.37	0-2	0
	64QAM	1	0	16.69	0-2	0
		1	24	16.58	0-2	0
		1	49	16.59	0-2	0
		25	0	16.41	0-3	0
		25	12	16.43	0-3	0
		25	24	16.34	0-3	0
		50	0	16.43	0-3	0
	256QAM	1	0	16.61	0-5	0
		1	24	16.50	0-5	0
		1	49	16.46	0-5	0
		25	0	16.46	0-5	0
		25	12	16.41	0-5	0
		25	24	16.42	0-5	0
		50	0	16.46	0-5	0

[LTE Band 38 Conducted Power]

LTE Band 38 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				37775 Ch. 2572.5 ㎒	38000 Ch. 2595 ㎒	38225Ch. 2617.5 ㎒		
5 MHz	QPSK	1	0	19.96	20.07	20.11	0	0
		1	12	20.14	20.16	20.23	0	0
		1	24	19.92	20.13	20.16	0	0
		12	0	20.02	20.15	20.18	0-1	0
		12	6	20.04	20.18	20.17	0-1	0
		12	11	20.03	20.14	20.20	0-1	0
		25	0	20.06	20.22	20.22	0-1	0
	16QAM	1	0	20.03	20.00	20.17	0-1	0
		1	12	19.81	20.08	20.04	0-1	0
		1	24	19.97	20.01	20.13	0-1	0
		12	0	20.03	20.08	20.11	0-2	0
		12	6	20.03	20.08	20.11	0-2	0
		12	11	20.02	20.08	20.11	0-2	0
		25	0	20.04	20.18	20.18	0-2	0
	64QAM	1	0	19.98	20.29	20.21	0-2	0
		1	12	19.95	20.31	20.35	0-2	0
		1	24	19.95	20.29	20.30	0-2	0
		12	0	20.03	20.11	20.14	0-3	0
		12	6	20.00	20.10	20.13	0-3	0
		12	11	19.98	20.08	20.13	0-3	0
		25	0	20.08	20.18	20.18	0-3	0
	256QAM	1	0	18.61	18.73	18.75	0-5	1
		1	12	18.62	18.75	18.81	0-5	1
		1	24	18.53	18.69	18.73	0-5	1
		12	0	17.67	17.75	17.76	0-5	2
		12	6	17.67	17.77	17.78	0-5	2
		12	11	17.64	17.73	17.74	0-5	2
		25	0	17.99	18.09	18.08	0-5	2

LTE Band 38 _ 10 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				37800 Ch. 2575 MHz	38000 Ch. 2595 MHz	38200Ch. 2615 MHz		
10 MHz	QPSK	1	0	20.04	20.15	20.13	0	0
		1	24	20.16	20.29	20.30	0	0
		1	49	19.97	20.09	20.09	0	0
		25	0	20.12	20.23	20.20	0-1	0
		25	12	20.09	20.23	20.21	0-1	0
		25	24	20.08	20.20	20.20	0-1	0
		50	0	20.17	20.29	20.26	0-1	0
	16QAM	1	0	19.97	20.08	20.10	0-1	0
		1	24	19.77	19.90	19.90	0-1	0
		1	49	19.93	20.12	20.05	0-1	0
		25	0	20.08	20.16	20.18	0-2	0
		25	12	20.08	20.19	20.21	0-2	0
		25	24	20.06	20.18	20.20	0-2	0
		50	0	20.15	20.23	20.27	0-2	0
	64QAM	1	0	20.18	20.23	20.26	0-2	0
		1	24	20.03	20.21	20.19	0-2	0
		1	49	20.13	20.18	20.24	0-2	0
		25	0	20.09	20.18	20.20	0-3	0
		25	12	20.08	20.18	20.19	0-3	0
		25	24	20.06	20.16	20.19	0-3	0
		50	0	20.19	20.29	20.29	0-3	0
	256QAM	1	0	18.67	18.73	18.80	0-5	1
		1	24	18.63	18.66	18.72	0-5	1
		1	49	18.56	18.71	18.70	0-5	1
		25	0	18.06	18.13	18.13	0-5	2
		25	12	18.06	18.14	18.12	0-5	2
		25	24	18.02	18.11	18.10	0-5	2
		50	0	18.07	18.14	18.17	0-5	2

LTE Band 38 _ 15 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced 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	20.08	20.10	20.12	0	0
		1	36	20.19	20.16	20.22	0	0
		1	74	20.03	20.11	20.15	0	0
		36	0	20.13	20.21	20.22	0-1	0
		36	18	20.11	20.22	20.21	0-1	0
		36	39	20.12	20.20	20.22	0-1	0
		75	0	20.11	20.21	20.20	0-1	0
	16QAM	1	0	20.08	20.01	20.11	0-1	0
		1	36	19.86	19.92	20.14	0-1	0
		1	74	19.96	20.01	20.17	0-1	0
		36	0	20.11	20.14	20.17	0-2	0
		36	18	20.07	20.16	20.18	0-2	0
		36	39	20.05	20.14	20.17	0-2	0
		75	0	20.09	20.17	20.19	0-2	0
	64QAM	1	0	20.21	20.28	20.32	0-2	0
		1	36	20.27	20.42	20.45	0-2	0
		1	74	20.11	20.25	20.36	0-2	0
		36	0	20.11	20.17	20.20	0-3	0
		36	18	20.10	20.17	20.20	0-3	0
		36	39	20.06	20.17	20.19	0-3	0
		75	0	20.12	20.18	20.22	0-3	0
	256QAM	1	0	18.68	18.74	18.73	0-5	1
		1	36	18.73	18.74	18.73	0-5	1
		1	74	18.59	18.71	18.71	0-5	1
		36	0	17.90	17.95	17.97	0-5	2
		36	18	17.89	17.96	18.00	0-5	2
		36	39	17.87	17.94	17.99	0-5	2
		75	0	18.10	18.17	18.18	0-5	2

LTE Band 38 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced 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	20.03	20.16	20.20	0	0
		1	49	20.19	20.31	20.36	0	0
		1	99	20.03	20.11	20.17	0	0
		50	0	20.21	20.31	20.33	0-1	0
		50	25	20.21	20.30	20.31	0-1	0
		50	49	20.19	20.29	20.32	0-1	0
		100	0	20.15	20.25	20.27	0-1	0
	16QAM	1	0	20.13	20.15	20.08	0-1	0
		1	49	20.01	19.91	19.99	0-1	0
		1	99	20.10	20.06	20.12	0-1	0
		50	0	20.19	20.28	20.29	0-2	0
		50	25	20.18	20.26	20.28	0-2	0
		50	49	20.16	20.26	20.27	0-2	0
		100	0	20.18	20.27	20.28	0-2	0
	64QAM	1	0	20.04	20.25	20.32	0-2	0
		1	49	19.94	20.22	20.30	0-2	0
		1	99	19.93	20.22	20.31	0-2	0
		50	0	20.22	20.31	20.32	0-3	0
		50	25	20.22	20.29	20.30	0-3	0
		50	49	20.19	20.27	20.29	0-3	0
		100	0	20.15	20.22	20.24	0-3	0
	256QAM	1	0	18.68	18.75	18.80	0-5	1
		1	49	18.65	18.76	18.78	0-5	1
		1	99	18.60	18.68	18.74	0-5	1
		50	0	18.14	18.19	18.21	0-5	2
		50	25	18.12	18.18	18.20	0-5	2
		50	49	18.09	18.16	18.19	0-5	2
		100	0	18.11	18.17	18.18	0-5	2

[LTE Band 41 Conducted Power] - Power Class 3

LTE Band 41 _ 5 ㎒ Bandwidth - Power Class 3

Band width	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR Allowed Per GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 ㎒	40185 Ch. 2549.5 ㎒	40620 Ch. 2593.0 ㎒	41055 Ch. 2636.5 ㎒	41490 Ch. 2680.0 ㎒		
5 MHz	QPSK	1	0	19.90	20.14	20.38	20.33	20.04	0	0
		1	12	19.87	20.11	20.30	20.16	19.97	0	0
		1	24	19.95	20.22	20.42	20.29	20.03	0	0
		12	0	20.06	20.35	20.58	20.45	20.19	0-1	0
		12	6	20.05	20.36	20.55	20.42	20.17	0-1	0
		12	11	20.09	20.33	20.57	20.42	20.18	0-1	0
		25	0	20.03	20.34	20.54	20.41	20.11	0-1	0
	16QAM	1	0	20.08	20.19	20.56	20.32	20.03	0-1	0
		1	12	19.89	20.13	20.49	20.13	19.86	0-1	0
		1	24	19.89	20.12	20.47	20.34	19.91	0-1	0
		12	0	20.06	20.29	20.58	20.35	20.14	0-2	0
		12	6	20.04	20.31	20.56	20.33	20.13	0-2	0
		12	11	20.01	20.28	20.61	20.35	20.07	0-2	0
		25	0	20.05	20.29	20.50	20.38	20.14	0-2	0
	64QAM	1	0	20.24	20.56	20.68	20.68	20.29	0-2	0
		1	12	20.27	20.53	20.70	20.70	20.29	0-2	0
		1	24	20.24	20.54	20.66	20.58	20.28	0-2	0
		12	0	20.10	20.27	20.57	20.41	20.20	0-3	0
		12	6	20.09	20.32	20.54	20.39	20.15	0-3	0
		12	11	20.08	20.35	20.53	20.41	20.13	0-3	0
		25	0	20.02	20.31	20.53	20.36	20.13	0-3	0
	256QAM	1	0	18.85	19.08	19.27	19.20	18.90	0-5	1
		1	12	18.77	19.02	19.12	19.24	18.86	0-5	1
		1	24	18.78	19.07	19.22	19.17	18.90	0-5	1
		12	0	17.97	18.26	18.34	18.30	17.99	0-5	2
		12	6	17.97	18.23	18.35	18.29	18.04	0-5	2
		12	11	17.92	18.21	18.32	18.29	17.99	0-5	2
		25	0	18.15	18.45	18.64	18.50	18.24	0-5	2

LTE Band 41 _ 10 MHz Bandwidth - Power Class 3

Band width	Modulation	RB Size	RB Offset	Reduced 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	20.01	20.43	20.62	20.44	20.12	0	0
		1	24	20.00	20.26	20.47	20.32	20.03	0	0
		1	49	19.89	20.14	20.34	20.24	19.92	0	0
		25	0	20.05	20.37	20.60	20.43	20.16	0-1	0
		25	12	20.04	20.32	20.56	20.43	20.13	0-1	0
		25	24	20.05	20.33	20.56	20.40	20.09	0-1	0
		50	0	20.05	20.35	20.60	20.41	20.14	0-1	0
	16QAM	1	0	20.09	20.28	20.52	20.40	20.13	0-1	0
		1	24	19.89	20.18	20.33	20.17	20.03	0-1	0
		1	49	20.07	20.16	20.45	20.28	20.11	0-1	0
		25	0	20.04	20.35	20.59	20.40	20.15	0-2	0
		25	12	20.05	20.34	20.55	20.41	20.15	0-2	0
		25	24	20.03	20.31	20.54	20.38	20.09	0-2	0
		50	0	20.08	20.32	20.61	20.42	20.13	0-2	0
	64QAM	1	0	20.26	20.65	20.73	20.46	20.34	0-2	0
		1	24	20.22	20.70	20.59	20.45	20.31	0-2	0
		1	49	20.30	20.75	20.62	20.36	20.16	0-2	0
		25	0	20.05	20.35	20.54	20.37	20.14	0-3	0
		25	12	20.07	20.32	20.50	20.41	20.12	0-3	0
		25	24	20.04	20.32	20.50	20.37	20.09	0-3	0
		50	0	20.10	20.41	20.64	20.44	20.18	0-3	0
	256QAM	1	0	18.78	19.15	19.29	19.08	18.85	0-5	1
		1	24	18.72	19.25	19.27	19.17	18.87	0-5	1
		1	49	18.82	19.21	19.19	19.06	18.85	0-5	1
		25	0	18.14	18.42	18.68	18.47	18.25	0-5	2
		25	12	18.12	18.40	18.67	18.51	18.24	0-5	2
		25	24	18.12	18.43	18.64	18.49	18.21	0-5	2
		50	0	18.21	18.50	18.72	18.58	18.33	0-5	2

LTE Band 41 _ 15 MHz Bandwidth- Power Class 3

Band width	Modulation	RB Size	RB Offset	Reduced 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	19.99	20.21	20.44	20.34	20.06	0	0
		1	36	19.98	20.17	20.29	20.17	20.01	0	0
		1	74	19.94	20.15	20.35	20.26	19.94	0	0
		36	0	20.11	20.37	20.61	20.44	20.20	0-1	0
		36	18	20.05	20.34	20.56	20.44	20.15	0-1	0
		36	39	20.06	20.30	20.54	20.41	20.11	0-1	0
		75	0	20.04	20.27	20.56	20.39	20.10	0-1	0
	16QAM	1	0	20.24	20.30	20.72	20.44	20.07	0-1	0
		1	36	20.19	20.34	20.44	20.28	19.94	0-1	0
		1	74	20.18	20.26	20.59	20.33	19.92	0-1	0
		36	0	20.05	20.33	20.57	20.41	20.14	0-2	0
		36	18	20.03	20.30	20.56	20.39	20.13	0-2	0
		36	39	20.06	20.28	20.52	20.36	20.09	0-2	0
		75	0	20.09	20.34	20.55	20.42	20.13	0-2	0
	64QAM	1	0	20.26	20.72	20.85	20.55	20.16	0-2	0
		1	36	20.26	20.71	20.81	20.45	20.11	0-2	0
		1	74	20.23	20.70	20.76	20.45	20.02	0-2	0
		36	0	20.12	20.37	20.62	20.46	20.21	0-3	0
		36	18	20.14	20.38	20.60	20.46	20.18	0-3	0
		36	39	20.10	20.34	20.57	20.42	20.14	0-3	0
		75	0	20.06	20.31	20.58	20.39	20.14	0-3	0
	256QAM	1	0	19.02	19.24	19.41	19.08	18.89	0-5	1
		1	36	18.99	19.17	19.30	19.03	18.87	0-5	1
		1	74	18.91	19.20	19.24	19.08	18.81	0-5	1
		36	0	18.03	18.32	18.50	18.37	18.12	0-5	2
		36	18	18.03	18.30	18.48	18.37	18.09	0-5	2
		36	39	18.05	18.30	18.48	18.36	18.10	0-5	2
		75	0	18.15	18.43	18.67	18.50	18.25	0-5	2

LTE Band 41 _ 20 ㎒ Bandwidth - Power Class 3

Band width	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR Allowed Per 3GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 ㎒	40185 Ch. 2549.5 ㎒	40620 Ch. 2593.0 ㎒	41055 Ch. 2636.5 ㎒	41490 Ch. 2680.0 ㎒		
20 MHz	QPSK	1	0	19.99	20.29	20.54	20.44	20.16	0	0
		1	49	19.99	20.22	20.43	20.34	20.06	0	0
		1	99	19.88	20.09	20.30	20.21	19.86	0	0
		50	0	20.08	20.36	20.65	20.45	20.20	0-1	0
		50	25	20.07	20.32	20.62	20.42	20.13	0-1	0
		50	49	20.04	20.28	20.55	20.40	20.09	0-1	0
		100	0	20.02	20.27	20.57	20.38	20.11	0-1	0
	16QAM	1	0	19.91	20.28	20.63	20.42	20.20	0-1	0
		1	49	19.76	20.14	20.49	20.17	19.99	0-1	0
		1	99	19.89	20.33	20.50	20.18	20.10	0-1	0
		50	0	20.08	20.38	20.64	20.42	20.19	0-2	0
		50	25	20.05	20.34	20.59	20.41	20.17	0-2	0
		50	49	20.07	20.27	20.53	20.36	20.08	0-2	0
		100	0	20.05	20.33	20.59	20.41	20.13	0-2	0
	64QAM	1	0	20.26	20.51	20.71	20.51	20.30	0-2	0
		1	49	20.28	20.50	20.63	20.47	20.22	0-2	0
		1	99	20.23	20.37	20.50	20.35	20.10	0-2	0
		50	0	20.15	20.42	20.68	20.49	20.24	0-3	0
		50	25	20.12	20.39	20.64	20.43	20.20	0-3	0
		50	49	20.10	20.36	20.58	20.42	20.14	0-3	0
		100	0	20.05	20.32	20.55	20.39	20.10	0-3	0
	256QAM	1	0	18.83	19.19	19.32	19.09	18.93	0-5	1
		1	49	18.79	19.22	19.30	19.13	18.95	0-5	1
		1	99	18.75	19.08	19.16	19.00	18.76	0-5	1
		50	0	18.24	18.53	18.76	18.60	18.35	0-5	2
		50	25	18.23	18.51	18.70	18.57	18.31	0-5	2
		50	49	18.23	18.51	18.67	18.58	18.30	0-5	2
		100	0	18.14	18.44	18.68	18.50	18.26	0-5	2

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

[LTE Band 41 Conducted] - Power Class 2

LTE Band 41 _ 5 ㎒ Bandwidth - Power Class 2

Band width	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR Allowed Per GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 ㎒	40185 Ch. 2549.5 ㎒	40620 Ch. 2593.0 ㎒	41055 Ch. 2636.5 ㎒	41490 Ch. 2680.0 ㎒		
5 MHz	QPSK	1	0	20.42	20.75	20.94	20.88	20.53	0	0
		1	12	20.30	20.58	20.71	20.72	20.39	0	0
		1	24	20.40	20.68	20.86	20.79	20.46	0	0
		12	0	20.10	20.38	20.62	20.49	20.20	0-1	0
		12	6	20.11	20.39	20.59	20.46	20.15	0-1	0
		12	11	20.12	20.38	20.60	20.49	20.18	0-1	0
		25	0	20.13	20.41	20.61	20.47	20.17	0-1	0
	16QAM	1	0	19.88	20.31	20.18	20.16	20.26	0-1	0
		1	12	19.77	20.28	20.25	20.25	20.09	0-1	0
		1	24	19.95	20.32	20.23	20.24	20.26	0-1	0
		12	0	20.05	20.31	20.55	20.34	20.19	0-2	0
		12	6	20.02	20.28	20.51	20.31	20.15	0-2	0
		12	11	20.03	20.30	20.52	20.35	20.14	0-2	0
		25	0	20.09	20.36	20.59	20.41	20.17	0-2	0
	64QAM	1	0	20.47	20.65	20.97	20.80	20.60	0-2	0
		1	12	20.45	20.74	20.92	20.80	20.39	0-2	0
		1	24	20.51	20.72	20.96	20.80	20.63	0-2	0
		12	0	20.19	20.44	20.73	20.54	20.32	0-3	0
		12	6	20.16	20.42	20.73	20.53	20.22	0-3	0
		12	11	20.16	20.44	20.72	20.56	20.22	0-3	0
		25	0	20.10	20.42	20.60	20.49	20.24	0-3	0
	256QAM	1	0	18.66	19.21	18.93	19.03	18.93	0-5	1
		1	12	18.26	18.97	18.46	18.60	18.48	0-5	1
		1	24	18.62	19.26	18.85	18.90	18.77	0-5	1
		12	0	18.07	18.35	18.55	18.38	18.11	0-5	2
		12	6	18.09	18.33	18.53	18.36	18.05	0-5	2
		12	11	18.12	18.37	18.53	18.41	18.06	0-5	2
		25	0	18.11	18.40	18.41	18.42	18.13	0-5	2

LTE Band 41 _ 10 MHz Bandwidth - Power Class 2

Band width	Modulation	RB Size	RB Offset	Reduced 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	20.50	20.71	20.93	20.85	20.56	0	0
		1	24	20.17	20.36	20.57	20.45	20.18	0	0
		1	49	20.43	20.65	20.82	20.76	20.43	0	0
		25	0	20.18	20.39	20.64	20.52	20.23	0-1	0
		25	12	20.15	20.37	20.59	20.43	20.20	0-1	0
		25	24	20.11	20.35	20.57	20.43	20.17	0-1	0
		50	0	20.07	20.35	20.59	20.42	20.16	0-1	0
	16QAM	1	0	20.66	20.06	20.72	20.76	20.49	0-1	0
		1	24	20.67	20.11	20.50	20.61	20.53	0-1	0
		1	49	20.63	20.15	20.57	20.66	20.33	0-1	0
		25	0	20.12	20.48	20.59	20.39	20.19	0-2	0
		25	12	20.13	20.38	20.52	20.41	20.16	0-2	0
		25	24	20.14	20.35	20.55	20.44	20.15	0-2	0
		50	0	20.12	20.41	20.56	20.42	20.20	0-2	0
	64QAM	1	0	20.40	20.71	20.78	20.87	20.51	0-2	0
		1	24	20.35	20.82	20.94	20.78	20.57	0-2	0
		1	49	20.24	20.65	20.85	20.85	20.35	0-2	0
		25	0	20.19	20.45	20.60	20.47	20.26	0-3	0
		25	12	20.17	20.43	20.60	20.46	20.23	0-3	0
		25	24	20.19	20.42	20.60	20.47	20.19	0-3	0
		50	0	20.12	20.40	20.63	20.49	20.20	0-3	0
	256QAM	1	0	18.80	18.95	19.02	19.26	18.81	0-5	1
		1	24	19.01	19.08	19.17	19.42	18.89	0-5	1
		1	49	18.93	18.88	18.94	19.23	18.76	0-5	1
		25	0	18.10	18.35	18.45	18.41	18.17	0-5	2
		25	12	18.05	18.37	18.42	18.37	18.16	0-5	2
		25	24	18.06	18.34	18.40	18.39	18.13	0-5	2
		50	0	18.25	18.54	18.76	18.60	18.33	0-5	2

LTE Band 41 _ 15 MHz Bandwidth- Power Class 2

Band width	Modulation	RB Size	RB Offset	Reduced 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	20.53	20.78	20.99	20.90	20.59	0	0
		1	36	20.21	20.64	20.66	20.76	20.43	0	0
		1	74	20.44	20.65	20.85	20.77	20.43	0	0
		36	0	20.15	20.41	20.63	20.50	20.26	0-1	0
		36	18	20.11	20.36	20.62	20.45	20.22	0-1	0
		36	39	20.08	20.34	20.59	20.42	20.18	0-1	0
		75	0	20.10	20.37	20.62	20.47	20.21	0-1	0
	16QAM	1	0	20.47	20.54	20.75	20.77	20.56	0-1	0
		1	36	20.21	20.56	20.68	20.88	20.39	0-1	0
		1	74	20.39	20.48	20.63	20.72	20.45	0-1	0
		36	0	20.18	20.42	20.63	20.49	20.23	0-2	0
		36	18	20.17	20.39	20.58	20.46	20.21	0-2	0
		36	39	20.17	20.36	20.55	20.44	20.16	0-2	0
		75	0	20.15	20.41	20.63	20.49	20.24	0-2	0
	64QAM	1	0	20.40	20.99	20.77	20.68	20.62	0-2	0
		1	36	20.23	20.70	20.41	20.30	20.21	0-2	0
		1	74	20.54	20.82	20.78	20.63	20.53	0-2	0
		36	0	20.10	20.42	20.58	20.38	20.23	0-3	0
		36	18	20.08	20.39	20.55	20.39	20.21	0-3	0
		36	39	20.09	20.37	20.51	20.36	20.17	0-3	0
		75	0	20.18	20.47	20.66	20.48	20.27	0-3	0
	256QAM	1	0	18.72	19.03	18.97	18.97	18.98	0-5	1
		1	36	18.60	18.88	18.75	18.91	18.69	0-5	1
		1	74	18.72	19.06	18.89	18.93	18.91	0-5	1
		36	0	18.13	18.40	18.61	18.47	18.16	0-5	2
		36	18	18.10	18.44	18.58	18.45	18.19	0-5	2
		36	39	18.09	18.40	18.54	18.45	18.15	0-5	2
		75	0	18.10	18.38	18.54	18.44	18.14	0-5	2

LTE Band 41 _ 20 ㎒ Bandwidth - Power Class 2

Band width	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR Allowed Per 3GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 ㎒	40185 Ch. 2549.5 ㎒	40620 Ch. 2593.0 ㎒	41055 Ch. 2636.5 ㎒	41490 Ch. 2680.0 ㎒		
20 MHz	QPSK	1	0	20.50	20.73	20.98	20.86	20.59	0	0
		1	49	20.11	20.34	20.49	20.43	20.17	0	0
		1	99	20.40	20.57	20.79	20.71	20.35	0	0
		50	0	20.12	20.38	20.63	20.47	20.21	0-1	0
		50	25	20.09	20.34	20.61	20.43	20.19	0-1	0
		50	49	20.05	20.31	20.58	20.43	20.13	0-1	0
		100	0	20.10	20.33	20.60	20.44	20.14	0-1	0
	16QAM	1	0	20.40	20.33	20.70	20.82	20.17	0-1	0
		1	49	20.27	20.07	20.71	20.85	20.10	0-1	0
		1	99	20.34	19.90	20.61	20.96	19.95	0-1	0
		50	0	20.09	20.41	20.60	20.46	20.24	0-2	0
		50	25	20.09	20.39	20.57	20.45	20.22	0-2	0
		50	49	20.11	20.33	20.53	20.44	20.16	0-2	0
		100	0	20.09	20.38	20.67	20.51	20.25	0-2	0
	64QAM	1	0	20.60	20.79	20.96	20.93	20.81	0-2	0
		1	49	20.52	20.82	20.91	20.85	20.80	0-2	0
		1	99	20.51	20.61	20.81	20.80	20.65	0-2	0
		50	0	20.14	20.42	20.66	20.49	20.29	0-3	0
		50	25	20.13	20.39	20.67	20.49	20.23	0-3	0
		50	49	20.12	20.36	20.61	20.45	20.15	0-3	0
		100	0	20.10	20.34	20.62	20.45	20.18	0-3	0
	256QAM	1	0	18.53	18.89	19.41	19.28	18.95	0-5	1
		1	49	18.48	19.10	19.46	19.39	19.08	0-5	1
		1	99	18.38	18.89	19.25	19.18	18.84	0-5	1
		50	0	18.24	18.52	18.76	18.60	18.38	0-5	2
		50	25	18.23	18.52	18.78	18.61	18.37	0-5	2
		50	49	18.25	18.49	18.70	18.56	18.30	0-5	2
		100	0	18.19	18.47	18.70	18.55	18.30	0-5	2

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

[LTE Band 66 Conducted Power]

LTE Band 66 _ 1.4 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131979Ch. 1710.7 ㎒	132322 Ch. 1745 ㎒	132665 Ch. 1779.3 ㎒		
1.4 MHz	QPSK	1	0	18.26	19.30	19.42	0	0
		1	3	18.20	19.31	19.44	0	0
		1	5	18.44	19.43	19.59	0	0
		3	0	18.45	19.39	19.58	0	0
		3	1	18.36	19.29	19.40	0	0
		3	3	18.40	19.38	19.52	0	0
		6	0	18.52	19.43	19.57	0-1	0
	16QAM	1	0	18.81	19.65	19.78	0-1	0
		1	3	18.63	19.53	19.73	0-1	0
		1	5	18.77	19.55	19.69	0-1	0
		3	0	18.59	19.49	19.65	0-1	0
		3	1	18.52	19.35	19.62	0-1	0
		3	3	18.47	19.48	19.65	0-1	0
		6	0	18.59	19.51	19.72	0-2	0
	64QAM	1	0	18.60	19.73	19.72	0-2	0
		1	3	18.45	19.50	19.63	0-2	0
		1	5	18.57	19.69	19.76	0-2	0
		3	0	18.53	19.48	19.62	0-2	0
		3	1	18.42	19.50	19.73	0-2	0
		3	3	18.47	19.53	19.63	0-2	0
		6	0	18.56	19.49	19.68	0-3	0
	256QAM	1	0	18.07	19.03	19.17	0-5	0
		1	3	18.05	18.94	19.11	0-5	0
		1	5	18.06	19.07	19.00	0-5	0
		3	0	18.01	18.95	19.11	0-5	0
		3	1	17.99	18.87	19.08	0-5	0
		3	3	18.01	18.92	19.05	0-5	0
		6	0	16.96	17.89	18.06	0-5	1

LTE Band 66 _ 3 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131987 Ch. 1711.5 ㎒	132322 Ch. 1745 ㎒	132657 Ch. 1778.5 ㎒		
3 MHz	QPSK	1	0	18.13	19.27	19.38	0	0
		1	7	18.14	19.26	19.39	0	0
		1	14	18.33	19.23	19.39	0	0
		8	0	18.38	19.46	19.58	0-1	0
		8	3	18.39	19.41	19.55	0-1	0
		8	7	18.43	19.52	19.62	0-1	0
		15	0	18.42	19.45	19.64	0-1	0
	16QAM	1	0	18.68	19.70	19.72	0-1	0
		1	7	18.46	19.53	19.71	0-1	0
		1	14	18.78	19.50	19.78	0-1	0
		8	0	18.50	19.50	19.71	0-2	0
		8	3	18.53	19.52	19.74	0-2	0
		8	7	18.59	19.51	19.68	0-2	0
		15	0	18.52	19.44	19.66	0-2	0
	64QAM	1	0	18.69	19.58	19.79	0-2	0
		1	7	18.73	19.72	19.75	0-2	0
		1	14	18.63	19.58	19.74	0-2	0
		8	0	18.56	19.40	19.61	0-3	0
		8	3	18.56	19.43	19.68	0-3	0
		8	7	18.66	19.41	19.69	0-3	0
		15	0	18.53	19.42	19.65	0-3	0
	256QAM	1	0	18.14	19.06	19.30	0-5	0
		1	7	18.11	18.96	19.26	0-5	0
		1	14	18.18	19.00	19.08	0-5	0
		8	0	16.96	17.75	18.06	0-5	1
		8	3	16.98	17.81	18.06	0-5	1
		8	7	16.96	17.73	18.03	0-5	1
		15	0	16.93	17.83	18.06	0-5	1

LTE Band 66 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				131997 Ch. 1712.5 ㎒	132322Ch. 1745 ㎒	132647 Ch. 1777.5 ㎒		
5 MHz	QPSK	1	0	18.23	19.10	19.20	0	0
		1	12	18.34	19.12	19.27	0	0
		1	24	18.25	19.19	19.32	0	0
		12	0	18.38	19.33	19.49	0-1	0
		12	6	18.42	19.36	19.52	0-1	0
		12	11	18.43	19.37	19.50	0-1	0
		25	0	18.36	19.28	19.46	0-1	0
	16QAM	1	0	18.54	19.55	19.77	0-1	0
		1	12	18.36	19.32	19.57	0-1	0
		1	24	18.53	19.55	19.65	0-1	0
		12	0	18.43	19.39	19.60	0-2	0
		12	6	18.48	19.48	19.60	0-2	0
		12	11	18.48	19.46	19.58	0-2	0
		25	0	18.42	19.35	19.52	0-2	0
	64QAM	1	0	18.52	19.37	19.69	0-2	0
		1	12	18.70	19.43	19.63	0-2	0
		1	24	18.63	19.57	19.67	0-2	0
		12	0	18.46	19.34	19.63	0-3	0
		12	6	18.51	19.31	19.52	0-3	0
		12	11	18.53	19.42	19.56	0-3	0
		25	0	18.42	19.34	19.50	0-3	0
	256QAM	1	0	17.99	18.90	18.96	0-5	0
		1	12	17.99	18.96	19.07	0-5	0
		1	24	18.03	19.06	19.10	0-5	0
		12	0	16.91	17.80	17.94	0-5	1
		12	6	16.89	17.86	17.97	0-5	1
		12	11	16.86	17.82	18.00	0-5	1
		25	0	16.79	17.79	17.96	0-5	1

LTE Band 66 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132022 Ch. 1715 ㎒	132322 Ch. 1745 ㎒	132622 Ch. 1775 ㎒		
10 MHz	QPSK	1	0	18.09	19.09	19.26	0	0
		1	24	18.25	19.13	19.22	0	0
		1	49	18.27	19.10	19.24	0	0
		25	0	18.27	19.22	19.37	0-1	0
		25	12	18.24	19.26	19.42	0-1	0
		25	24	18.33	19.25	19.37	0-1	0
		50	0	18.28	19.23	19.43	0-1	0
	16QAM	1	0	18.63	19.44	19.53	0-1	0
		1	24	18.37	19.45	19.61	0-1	0
		1	49	18.54	19.49	19.63	0-1	0
		25	0	18.35	19.27	19.44	0-2	0
		25	12	18.37	19.29	19.45	0-2	0
		25	24	18.40	19.30	19.46	0-2	0
		50	0	18.40	19.29	19.46	0-2	0
	64QAM	1	0	18.63	19.42	19.58	0-2	0
		1	24	18.50	19.46	19.60	0-2	0
		1	49	18.61	19.50	19.65	0-2	0
		25	0	18.34	19.28	19.44	0-3	0
		25	12	18.37	19.29	19.43	0-3	0
		25	24	18.42	19.29	19.49	0-3	0
		50	0	18.41	19.34	19.50	0-3	0
	256QAM	1	0	18.00	18.99	18.95	0-5	0
		1	24	17.95	18.87	18.91	0-5	0
		1	49	18.04	18.89	19.16	0-5	0
		25	0	16.80	17.74	17.93	0-5	1
		25	12	16.83	17.73	17.91	0-5	1
		25	24	16.79	17.76	17.90	0-5	1
		50	0	16.85	17.78	17.94	0-5	1

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	17.88	18.95	19.11	0	0
		1	36	18.17	19.05	19.23	0	0
		1	74	18.20	19.14	19.27	0	0
		36	0	18.23	19.19	19.37	0-1	0
		36	18	18.31	19.26	19.37	0-1	0
		36	39	18.32	19.27	19.38	0-1	0
		75	0	18.26	19.23	19.33	0-1	0
	16QAM	1	0	18.42	19.34	19.45	0-1	0
		1	36	18.39	19.30	19.42	0-1	0
		1	74	18.60	19.46	19.59	0-1	0
		36	0	18.30	19.24	19.42	0-2	0
		36	18	18.36	19.29	19.41	0-2	0
		36	39	18.41	19.33	19.42	0-2	0
		75	0	18.32	19.25	19.38	0-2	0
	64QAM	1	0	18.48	19.48	19.63	0-2	0
		1	36	18.60	19.51	19.53	0-2	0
		1	74	18.65	19.50	19.63	0-2	0
		36	0	18.39	19.32	19.42	0-3	0
		36	18	18.43	19.37	19.46	0-3	0
		36	39	18.44	19.35	19.46	0-3	0
		75	0	18.40	19.29	19.39	0-3	0
	256QAM	1	0	17.78	18.88	18.92	0-5	0
		1	36	17.89	18.86	18.94	0-5	0
		1	74	18.03	18.87	18.91	0-5	0
		36	0	16.82	17.78	17.88	0-5	1
		36	18	16.81	17.76	17.83	0-5	1
		36	39	16.90	17.78	17.87	0-5	1
		75	0	16.81	17.75	17.87	0-5	1

LTE Band 66 _ 20 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				132072 Ch. 1720 ㎒	132322 Ch. 1745 ㎒	132572 Ch. 1770 ㎒		
20 MHz	QPSK	1	0	18.00	19.01	19.22	0	0
		1	49	18.26	19.18	19.23	0	0
		1	99	18.26	19.05	19.18	0	0
		50	0	18.25	19.24	19.44	0-1	0
		50	25	18.31	19.32	19.47	0-1	0
		50	49	18.31	19.30	19.45	0-1	0
		100	0	18.33	19.28	19.43	0-1	0
	16QAM	1	0	18.45	19.42	19.54	0-1	0
		1	49	18.35	19.51	19.62	0-1	0
		1	99	18.55	19.48	19.64	0-1	0
		50	0	18.36	19.31	19.50	0-2	0
		50	25	18.45	19.37	19.53	0-2	0
		50	49	18.45	19.38	19.51	0-2	0
		100	0	18.39	19.30	19.43	0-2	0
	64QAM	1	0	18.39	19.34	19.62	0-2	0
		1	49	18.63	19.62	19.63	0-2	0
		1	99	18.67	19.54	19.61	0-2	0
		50	0	18.40	19.34	19.55	0-3	0
		50	25	18.48	19.39	19.52	0-3	0
		50	49	18.45	19.40	19.48	0-3	0
		100	0	18.41	19.34	19.47	0-3	0
	256QAM	1	0	17.90	18.61	18.88	0-5	1.5
		1	49	18.13	18.93	18.97	0-5	1.5
		1	99	18.17	18.80	19.00	0-5	1.5
		50	0	16.87	17.78	18.00	0-5	1.5
		50	25	16.91	17.85	17.99	0-5	1.5
		50	49	16.95	17.84	17.98	0-5	1.5
		100	0	16.88	17.80	17.93	0-5	1.5

11.4.4 LTE Reduced Conducted Power (Receiver ON)

[LTE Band 48 Conducted Power]

LTE Band 48 _ 5 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Receiver On Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55265 Ch. 3552.5 ㎒	55748 Ch. 3600.8 ㎒	56232 Ch. 3649.2 ㎒	56715 Ch. 3697.5 ㎒		
5 MHz	QPSK	1	0	18.43	18.20	18.60	19.32	0	0
		1	12	18.48	18.31	18.65	19.42	0	0
		1	24	18.49	18.26	18.68	19.35	0	0
		12	0	18.54	18.26	18.68	19.37	0-1	0
		12	6	18.56	18.27	18.69	19.38	0-1	0
		12	11	18.55	18.27	18.71	19.39	0-1	0
		25	0	18.58	18.30	18.72	19.41	0-1	0
	16QAM	1	0	18.60	18.18	18.67	19.32	0-1	0
		1	12	18.57	18.14	18.80	19.31	0-1	0
		1	24	18.62	18.22	18.63	19.29	0-1	0
		12	0	18.49	18.21	18.67	19.36	0-2	0
		12	6	18.49	18.20	18.66	19.36	0-2	0
		12	11	18.50	18.22	18.67	19.36	0-2	0
		25	0	18.59	18.25	18.69	19.39	0-2	0
	64QAM	1	0	18.54	18.36	18.67	19.37	0-2	0
		1	12	18.59	18.40	18.79	19.48	0-2	0
		1	24	18.55	18.36	18.70	19.37	0-2	0
		12	0	18.53	18.21	18.68	19.33	0-3	0
		12	6	18.52	18.18	18.67	19.35	0-3	0
		12	11	18.53	18.18	18.68	19.35	0-3	0
		25	0	18.55	18.28	18.73	19.38	0-3	0
	256QAM	1	0	18.29	18.09	18.41	19.06	0-5	0
		1	12	18.28	18.19	18.52	19.08	0-5	0
		1	24	18.24	18.06	18.43	19.09	0-5	0
		12	0	17.56	17.27	17.72	18.38	0-5	1
		12	6	17.57	17.26	17.72	18.39	0-5	1
		12	11	17.56	17.26	17.74	18.36	0-5	1
		25	0	17.64	17.35	17.80	18.47	0-5	1

LTE Band 48 _ 10 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Receiver On Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55290Ch. 3555 ㎒	55757 Ch. 3601.7 ㎒	56223 Ch. 3648.3 ㎒	56690 Ch. 3695 ㎒		
10 MHz	QPSK	1	0	18.42	18.26	18.62	19.09	0	0
		1	24	18.54	18.42	18.81	19.29	0	0
		1	49	18.45	18.20	18.62	19.10	0	0
		25	0	18.46	18.26	18.67	19.13	0-1	0
		25	12	18.47	18.27	18.68	19.15	0-1	0
		25	24	18.47	18.27	18.68	19.18	0-1	0
		50	0	18.48	18.27	18.70	19.17	0-1	0
	16QAM	1	0	18.34	18.07	18.62	19.07	0-1	0
		1	24	18.31	18.07	18.58	19.24	0-1	0
		1	49	18.36	18.15	18.67	19.17	0-1	0
		25	0	18.46	18.19	18.66	19.11	0-2	0
		25	12	18.45	18.21	18.70	19.12	0-2	0
		25	24	18.45	18.23	18.70	19.14	0-2	0
		50	0	18.48	18.24	18.69	19.15	0-2	0
	64QAM	1	0	18.52	18.30	18.78	19.06	0-2	0
		1	24	18.49	18.30	18.81	19.26	0-2	0
		1	49	18.53	18.30	18.77	19.15	0-2	0
		25	0	18.50	18.25	18.71	19.16	0-3	0
		25	12	18.50	18.25	18.72	19.18	0-3	0
		25	24	18.50	18.26	18.73	19.17	0-3	0
		50	0	18.53	18.31	18.75	19.20	0-3	0
	256QAM	1	0	18.25	17.93	18.54	18.89	0-5	0
		1	24	18.33	18.11	18.62	19.19	0-5	0
		1	49	18.29	18.00	18.54	18.94	0-5	0
		25	0	17.56	17.32	17.78	18.20	0-5	1
		25	12	17.56	17.32	17.75	18.21	0-5	1
		25	24	17.54	17.34	17.78	18.24	0-5	1
		50	0	17.57	17.36	17.78	18.28	0-5	1

LTE Band 48 _ 15 ㎒ Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Receiver On Power [dBm]				MPR Allowed Per 3GPP [dB]	MPR [dB]
				55315Ch. 3557.5 ㎒	55765 Ch. 3602.5 ㎒	56215 Ch. 3647.5 ㎒	56665 Ch. 3692.5 ㎒		
15 MHz	QPSK	1	0	18.32	18.23	18.58	19.02	0	0
		1	36	18.54	18.46	18.89	19.30	0	0
		1	74	18.40	18.26	18.66	19.14	0	0
		36	0	18.44	18.26	18.69	19.13	0-1	0
		36	18	18.45	18.30	18.70	19.15	0-1	0
		36	39	18.45	18.30	18.72	19.18	0-1	0
		75	0	18.43	18.27	18.70	19.16	0-1	0
	16QAM	1	0	18.41	18.14	18.65	19.07	0-1	0
		1	36	18.23	18.32	18.75	19.15	0-1	0
		1	74	18.41	18.15	18.70	19.06	0-1	0
		36	0	18.44	18.23	18.67	19.09	0-2	0
		36	18	18.44	18.27	18.70	19.13	0-2	0
		36	39	18.42	18.28	18.71	19.16	0-2	0
		75	0	18.42	18.27	18.72	19.14	0-2	0
	64QAM	1	0	18.41	18.37	18.75	19.11	0-2	0
		1	36	18.44	18.50	18.92	19.28	0-2	0
		1	74	18.39	18.46	18.81	19.21	0-2	0
		36	0	18.45	18.26	18.69	19.12	0-3	0
		36	18	18.45	18.29	18.71	19.15	0-3	0
		36	39	18.44	18.29	18.73	19.18	0-3	0
		75	0	18.48	18.30	18.73	19.17	0-3	0
	256QAM	1	0	18.15	17.88	18.42	18.80	0-5	0
		1	36	18.19	17.87	18.48	18.97	0-5	0
		1	74	18.14	17.88	18.45	18.85	0-5	0
		36	0	17.49	17.28	17.71	18.16	0-5	1
		36	18	17.50	17.30	17.76	18.22	0-5	1
		36	39	17.50	17.32	17.77	18.22	0-5	1
		75	0	17.48	17.31	17.74	18.19	0-5	1

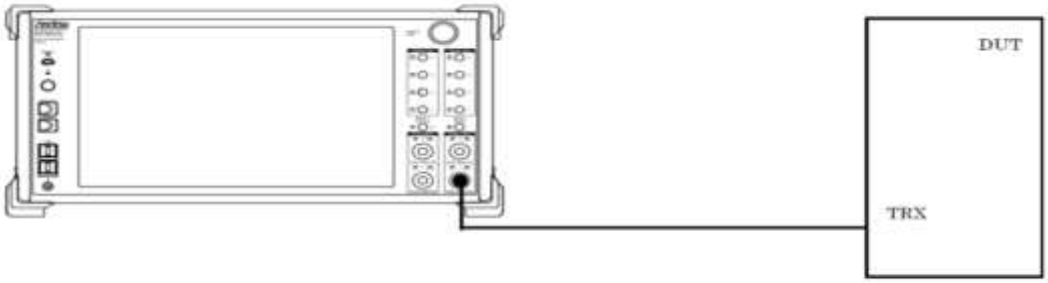
LTE Band 48 _ 20 MHz Bandwidth

Bandwidth	Modulation	RB Size	RB Offset	Receiver On 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	18.35	18.18	18.58	19.00	0	0
		1	49	18.42	18.47	18.85	19.29	0	0
		1	99	18.34	18.25	18.64	19.09	0	0
		50	0	18.40	18.27	18.67	19.09	0-1	0
		50	25	18.41	18.30	18.70	19.12	0-1	0
		50	49	18.40	18.31	18.71	19.17	0-1	0
		100	0	18.41	18.27	18.68	19.13	0-1	0
	16QAM	1	0	18.39	18.13	18.58	19.02	0-1	0
		1	49	18.46	18.39	18.83	19.01	0-1	0
		1	99	18.33	18.24	18.67	19.18	0-1	0
		50	0	18.39	18.24	18.65	19.08	0-2	0
		50	25	18.41	18.27	18.67	19.12	0-2	0
		50	49	18.39	18.28	18.69	19.15	0-2	0
		100	0	18.45	18.31	18.74	19.17	0-2	0
	64QAM	1	0	18.34	18.05	18.76	19.20	0-2	0
		1	49	18.43	18.28	18.95	19.32	0-2	0
		1	99	18.25	18.24	18.79	19.37	0-2	0
		50	0	18.45	18.28	18.73	19.13	0-3	0
		50	25	18.45	18.32	18.75	19.19	0-3	0
		50	49	18.43	18.32	18.75	19.21	0-3	0
		100	0	18.41	18.28	18.70	19.14	0-3	0
	256QAM	1	0	18.11	17.94	18.35	18.68	0-5	0
		1	49	18.13	18.18	18.48	19.01	0-5	0
		1	99	18.03	18.03	18.45	18.83	0-5	0
		50	0	17.50	17.33	17.78	18.19	0-5	1
		50	25	17.49	17.36	17.81	18.23	0-5	1
		50	49	17.50	17.38	17.82	18.25	0-5	1
		100	0	17.43	17.31	17.72	18.17	0-5	1

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

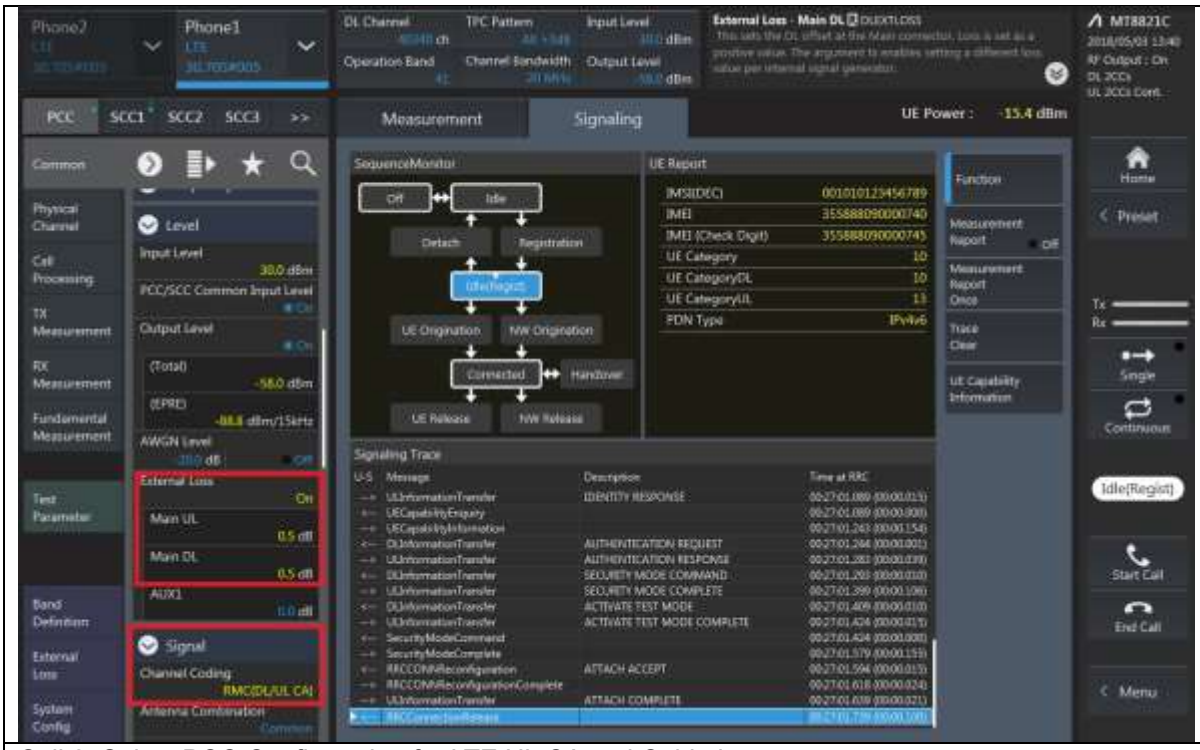
To measure the LTE UP CA power of this device, Anritsu's MT8821C was used to check the power as follows.



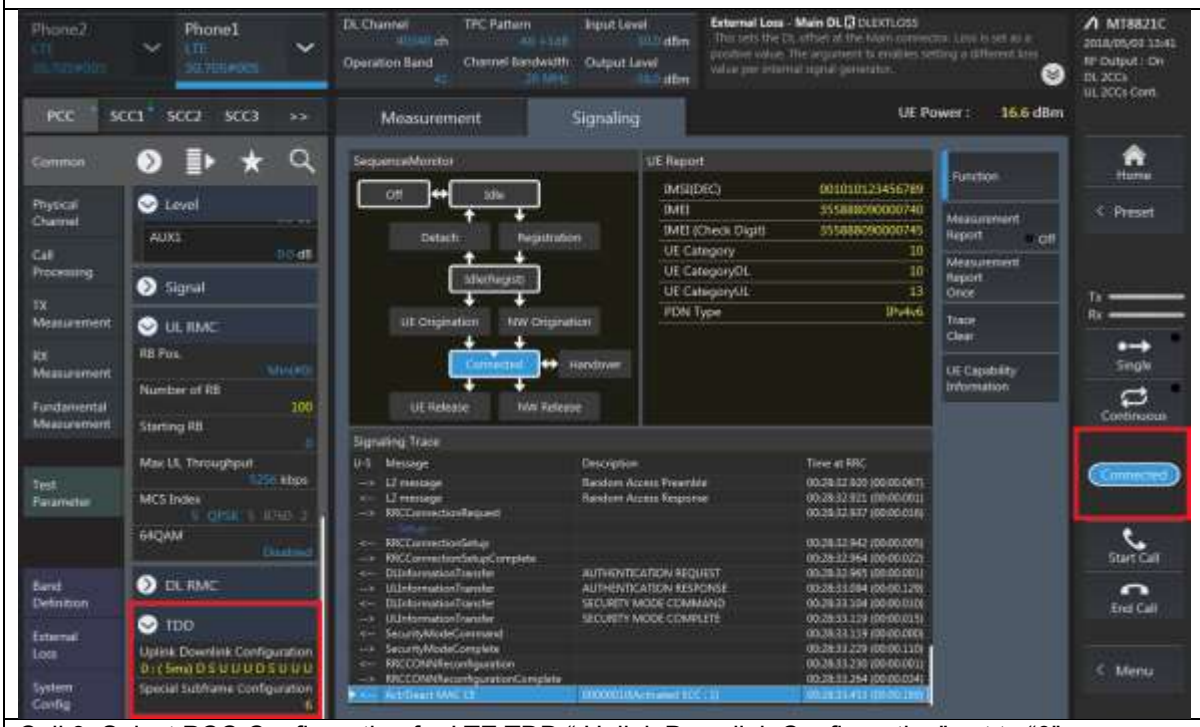
Power Measurement setup

.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.

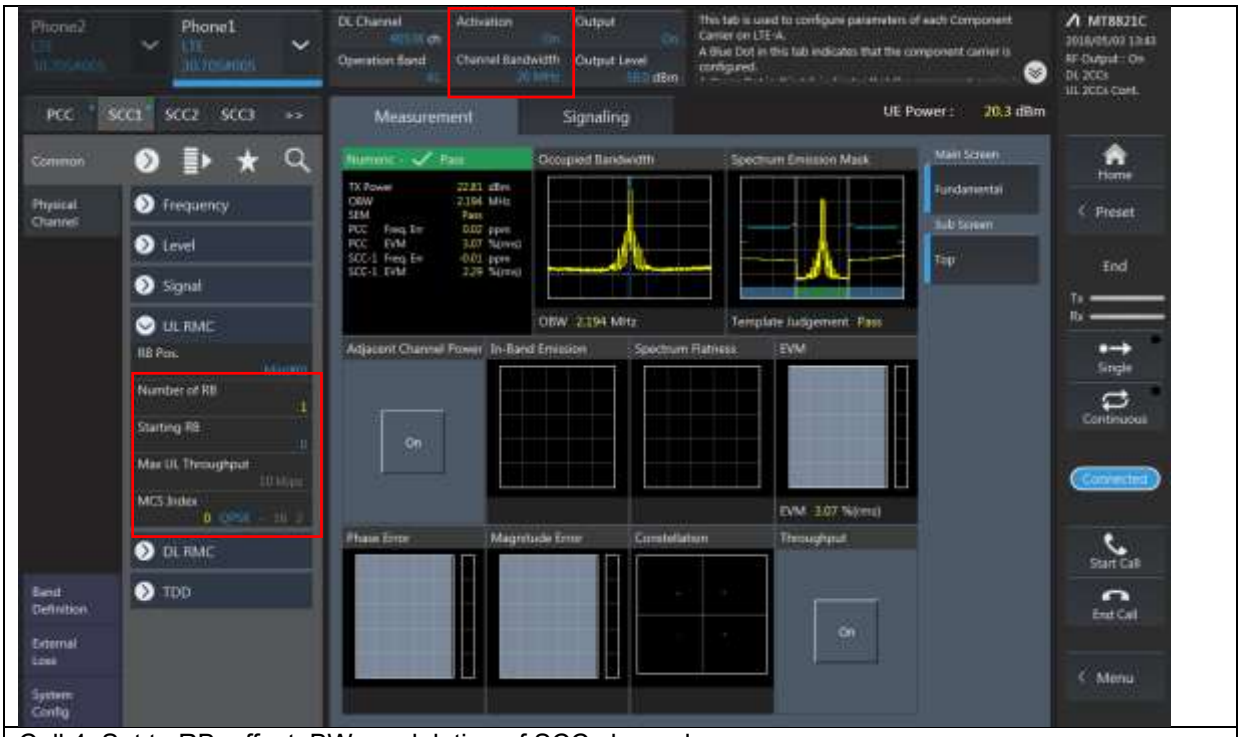
Call 1 :Select PCC Configuration for Authentication key to Register



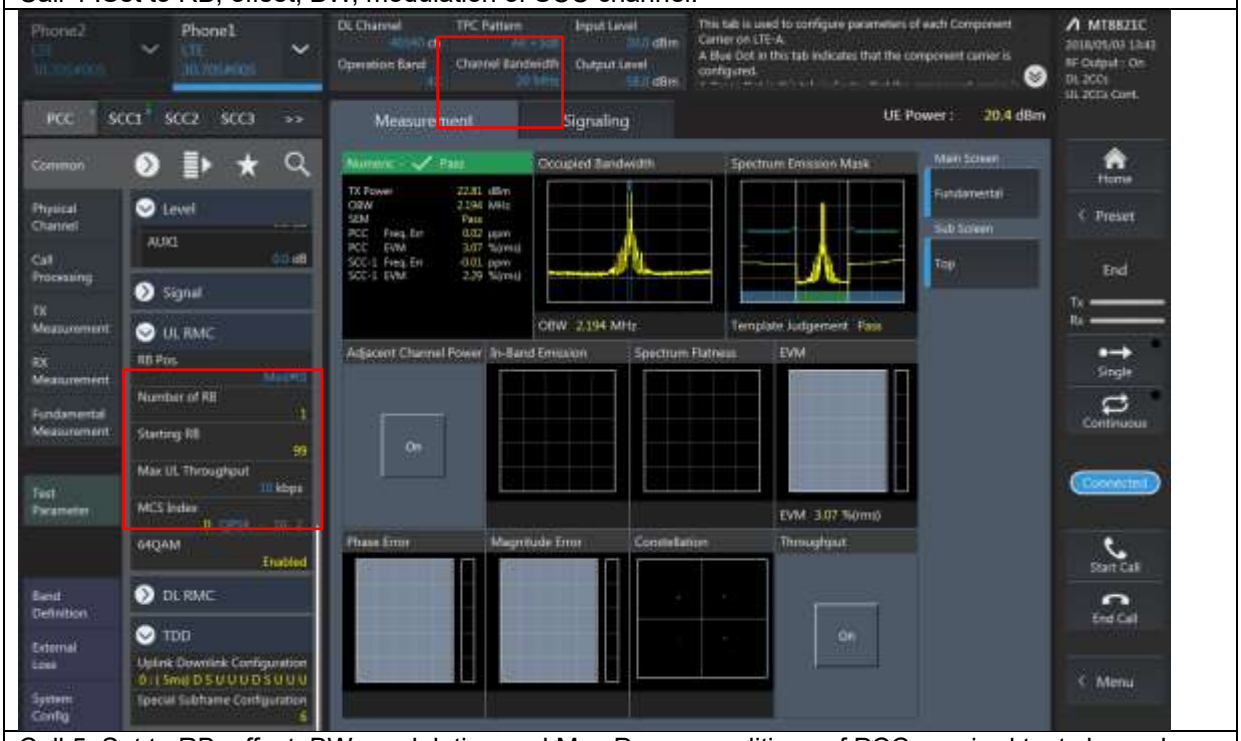
Call 2 :Select PCC Configuration for LTE UL CA and Cable loss



Call 3 :Select PCC Configuration for LTE TDD " Uplink Downlink Configuration" set to "0"
And then Select "connect"button.



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	40620	2593	QPSK	1	0	20	40422	2573.2	QPSK	1	99	23.43	23.55
41C(PC3)	20	40620	2593	QPSK	1	0	20	40422	2573.2	QPSK	1	99	20.55	20.66
41C(PC2)	20	40620	2593	QPSK	1	0	20	40422	2573.2	QPSK	1	99	26.12	26.07
48C(PC3)	20	56640	3690	QPSK	1	0	20	56442	3670.2	QPSK	1	99	18.94	19.00
48C(PC3)	20	56640	3690	QPSK	1	0	20	56442	3670.2	QPSK	1	99	21.42	21.55

11.4 NR Maximum Output Power

11.4.1 NR Band Maximum Conducted Power

[NR Band n2 Conducted Power]

NR Band n2 _ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						370500	376000	381500	
						1852.5 ㎒	1880 ㎒	1907.5 ㎒	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	22.53	22.89	22.78	0
				1	13	22.51	22.82	22.77	0
				1	23	22.64	22.86	22.56	0
				12	0	22.05	22.37	22.32	0.5
				12	7	22.61	22.89	22.89	0
				12	13	22.13	22.39	22.12	0.5
				25	0	22.13	22.40	22.41	0.5
			QPSK	1	1	22.58	22.91	22.90	0
				1	13	22.54	22.84	22.65	0
				1	23	22.67	22.89	22.57	0
				12	0	21.59	21.92	21.90	1
				12	7	22.62	22.92	22.60	0
				12	13	21.65	21.90	21.76	1
				25	0	21.63	21.91	21.93	1
			16QAM	1	1	21.58	21.95	21.84	1
			64QAM	1	1	20.13	20.53	20.51	2.5
			256QAM	1	1	18.10	18.25	18.22	4.5
		CP	QPSK	1	1	21.18	21.41	21.37	1.5

NR Band n2 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						371000	376000	381000	
						1855 ㎒	1880 ㎒	1905 ㎒	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	22.52	22.85	22.77	0
				1	26	22.64	22.93	22.84	0
				1	50	22.75	22.86	22.86	0
				25	0	22.10	22.37	22.31	0.5
				25	14	22.68	22.90	22.88	0
				25	27	22.25	22.38	22.42	0.5
				50	0	22.17	22.39	22.38	0.5
			QPSK	1	1	22.55	22.88	22.79	0
				1	26	22.68	22.91	22.86	0
				1	50	22.50	22.86	22.50	0
				25	0	21.67	21.92	21.87	1
				25	14	22.70	22.93	22.89	0
				25	27	21.79	21.89	21.92	1
				50	0	21.68	21.90	21.91	1
			16QAM	1	1	21.63	21.82	21.79	1
			64QAM	1	1	20.22	20.50	20.47	2.5
			256QAM	1	1	18.14	18.26	18.17	4.5
		CP	QPSK	1	1	21.00	21.29	21.23	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	22.45	22.42	22.52	0
				1	40	22.62	22.47	22.56	0
				1	77	22.45	22.47	22.47	0
				36	0	22.10	22.02	22.12	0.5
				36	22	22.74	22.61	22.66	0
				36	43	22.34	22.06	22.20	0.5
				75	0	22.24	22.09	22.15	0.5
			QPSK	1	1	22.55	22.61	22.60	0
				1	40	22.73	22.61	22.60	0
				1	77	22.22	22.60	22.20	0
				36	0	21.64	21.61	21.67	1
				36	22	22.79	22.68	22.70	0
				36	43	21.89	21.67	21.77	1
				75	0	21.77	21.68	21.70	1
			16QAM	1	1	21.60	21.72	21.70	1
			64QAM	1	1	20.17	20.25	20.19	2.5
			256QAM	1	1	17.87	18.01	17.91	4.5
		CP	QPSK	1	1	21.03	21.12	21.06	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	22.06	22.62	22.52	0
				1	53	22.50	22.84	22.73	0
				1	104	22.59	22.63	22.29	0
				50	0	21.83	22.24	22.15	0.5
				50	28	22.53	22.79	22.71	0
				50	56	22.17	22.25	22.22	0.5
				100	0	22.01	22.24	22.19	0.5
			QPSK	1	1	22.25	22.68	22.59	0
				1	53	22.65	22.82	22.79	0
				1	104	22.75	22.66	22.53	0
				50	0	21.48	21.77	21.66	1
				50	28	22.65	22.83	22.74	0
				50	56	21.78	21.75	21.78	1
				100	0	21.63	21.75	21.72	1
			16QAM	1	1	21.15	21.75	21.68	1
			64QAM	1	1	19.88	20.31	20.17	2.5
			256QAM	1	1	17.60	17.97	17.89	4.5
		CP	QPSK	1	1	20.76	21.17	21.07	1.5

[NR Band n5 Conducted Power]

NR Band n5_ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						165300	167300	169300	
						826.5 ㎒	836.5 ㎒	846.5 ㎒	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	24.45	24.23	23.85	0
				1	13	24.38	24.09	23.68	0
				1	23	24.43	24.14	23.73	0
				12	0	23.52	23.69	23.32	0.5
				12	7	24.49	24.19	23.80	0
				12	13	23.96	23.64	23.26	0.5
				25	0	23.99	23.69	23.27	0.5
			QPSK	1	1	24.46	24.24	23.89	0
				1	13	24.42	24.10	23.74	0
				1	23	24.40	24.11	23.76	0
				12	0	23.48	23.28	22.83	1
				12	7	24.45	24.17	23.77	0
				12	13	23.46	23.13	22.74	1
				25	0	23.45	23.19	22.82	1
			16QAM	1	1	23.38	23.17	22.67	1
			64QAM	1	1	21.93	21.94	21.58	2.5
			256QAM	1	1	19.97	19.66	19.30	4.5
		CP	QPSK	1	1	22.97	22.79	22.38	1.5

NR Band n5_ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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		24.33		0
				1	26		24.27		0
				1	50		24.02		0
				25	0		23.79		0.5
				25	14		24.19		0
				25	27		23.62		0.5
				50	0		23.71		0.5
			QPSK	1	1		24.34		0
				1	26		24.24		0
				1	50		24.06		0
				25	0		23.31		1
				25	14		24.23		0
				25	27		23.16		1
				50	0		23.21		1
			16QAM	1	1		23.29		1
			64QAM	1	1		21.97		2.5
			256QAM	1	1		19.80		4.5
		CP	QPSK	1	1		22.94		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		24.40		0
				1	40		24.12		0
				1	77		23.94		0
				36	0		23.83		0.5
				36	22		24.20		0
				36	43		23.56		0.5
				75	0		23.71		0.5
			QPSK	1	1		24.42		0
				1	40		24.16		0
				1	77		23.99		0
				36	0		23.37		1
				36	22		24.20		0
				36	43		23.09		1
				75	0		23.23		1
			16QAM	1	1		23.34		1
			64QAM	1	1		21.98		2.5
			256QAM	1	1		19.81		4.5
		CP	QPSK	1	1		22.88		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		24.37		0
				1	53		24.27		0
				1	104		23.80		0
				50	0		23.84		0.5
				50	28		24.21		0
				50	56		23.51		0.5
				100	0		23.71		0.5
			QPSK	1	1		24.42		0
				1	53		24.25		0
				1	104		23.84		0
				50	0		23.42		1
				50	28		24.23		0
				50	56		23.04		1
				100	0		23.26		1
			16QAM	1	1		23.36		1
			64QAM	1	1		21.93		2.5
			256QAM	1	1		19.84		4.5
		CP	QPSK	1	1		22.94		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	24.24	24.28	24.22	0
				1	13	24.18	24.20	24.08	0
				1	23	24.27	24.26	24.12	0
				12	0	23.74	23.76	23.67	0.5
				12	7	24.26	24.25	24.16	0
				12	13	23.80	23.77	23.64	0.5
				25	0	23.77	23.75	23.66	0.5
			QPSK	1	1	24.28	24.33	24.25	0
				1	13	24.20	24.23	24.10	0
				1	23	24.31	24.30	24.16	0
				12	0	23.28	23.28	23.19	1
				12	7	24.27	24.26	24.15	0
				12	13	23.32	23.28	23.13	1
				25	0	23.28	23.32	23.16	1
			16QAM	1	1	23.29	23.29	23.08	1
			64QAM	1	1	21.90	21.84	21.80	2.5
			256QAM	1	1	19.66	19.74	19.61	4.5
		CP	QPSK	1	1	22.80	22.85	22.73	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		24.29		0
				1	26		24.38		0
				1	50		24.23		0
				25	0		23.77		0.5
				25	14		24.28		0
				25	27		23.78		0.5
				50	0		23.77		0.5
			QPSK	1	1		24.31		0
				1	26		24.38		0
				1	50		24.23		0
				25	0		23.30		1
				25	14		24.25		0
				25	27		23.27		1
				50	0		23.28		1
			16QAM	1	1		23.29		1
			64QAM	1	1		21.91		2.5
			256QAM	1	1		19.72		4.5
		CP	QPSK	1	1		22.82		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		24.22		0
				1	40		24.16		0
				1	77		24.16		0
				36	0		23.78		0.5
				36	22		24.28		0
				36	43		23.76		0.5
				75	0		23.77		0.5
			QPSK	1	1		24.24		0
				1	40		24.24		0
				1	77		24.18		0
				36	0		23.30		1
				36	22		24.27		0
				36	43		23.26		1
				75	0		23.28		1
			16QAM	1	1		23.37		1
			64QAM	1	1		21.90		2.5
			256QAM	1	1		19.66		4.5
		CP	QPSK	1	1		22.78		1.5

[NR Band n25 Conducted Power]

NR Band n25 _ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						370500	376500	382500	
						1852.5 ㎒	1882.5 ㎒	1912.5 ㎒	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	22.61	23.05	23.20	0
				1	13	22.60	22.99	22.84	0
				1	23	22.74	23.05	22.61	0
				12	0	22.16	22.56	22.57	0.5
				12	7	22.69	23.07	22.68	0
				12	13	22.21	22.57	22.26	0.5
				25	0	22.21	22.59	22.34	0.5
			QPSK	1	1	22.74	23.09	22.78	0
				1	13	22.70	23.00	22.86	0
				1	23	22.78	23.07	22.97	0
				12	0	21.70	22.09	21.63	1
				12	7	22.75	23.11	22.98	0
				12	13	21.78	22.10	21.88	1
				25	0	21.75	22.13	21.53	1
			16QAM	1	1	21.61	22.33	21.89	1
			64QAM	1	1	20.31	20.75	20.42	2.5
			256QAM	1	1	18.06	18.47	18.62	4.5
		CP	QPSK	1	1	21.16	21.56	21.24	1.5

NR Band n25 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						371000	376500	382000	
						1855 ㎒	1882.5 ㎒	1910 ㎒	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	22.80	23.14	23.06	0
				1	26	22.93	23.21	23.21	0
				1	50	23.03	23.13	22.61	0
				25	0	22.35	22.66	22.67	0.5
				25	14	22.94	23.15	23.23	0
				25	27	22.50	22.64	22.27	0.5
				50	0	22.42	22.66	22.75	0.5
			QPSK	1	1	22.81	23.16	23.18	0
				1	26	22.96	23.29	22.86	0
				1	50	23.02	23.18	22.91	0
				25	0	21.88	22.19	22.27	1
				25	14	22.96	23.17	22.97	0
				25	27	22.03	22.18	21.64	1
				50	0	21.94	22.15	22.30	1
			16QAM	1	1	21.85	22.31	22.36	1
			64QAM	1	1	20.40	20.77	20.79	2.5
			256QAM	1	1	18.17	18.53	18.52	4.5
		CP	QPSK	1	1	21.32	21.64	21.62	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	22.72	23.12	23.03	0
				1	40	22.93	23.14	23.11	0
				1	77	22.90	23.11	22.95	0
				36	0	22.36	22.69	22.65	0.5
				36	22	23.02	23.20	23.24	0
				36	43	22.55	22.66	22.07	0.5
				75	0	22.50	22.67	22.73	0.5
			QPSK	1	1	22.77	23.12	23.16	0
				1	40	22.96	23.13	23.25	0
				1	77	22.66	23.10	22.69	0
				36	0	21.91	22.20	22.20	1
				36	22	23.03	23.22	23.29	0
				36	43	22.11	22.18	22.06	1
				75	0	22.00	22.18	22.27	1
			16QAM	1	1	21.89	21.98	22.19	1
			64QAM	1	1	20.46	20.78	20.74	2.5
			256QAM	1	1	18.13	18.49	18.45	4.5
		CP	QPSK	1	1	21.23	21.57	21.56	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	22.61	23.05	23.20	0
				1	53	22.60	22.99	22.84	0
				1	104	22.74	23.05	22.61	0
				50	0	22.16	22.56	22.57	0.5
				50	28	22.69	23.07	22.68	0
				50	56	22.21	22.57	22.26	0.5
				100	0	22.21	22.59	22.34	0.5
			QPSK	1	1	22.74	23.09	22.78	0
				1	53	22.70	23.00	22.91	0
				1	104	22.78	23.07	22.89	0
				50	0	21.70	22.09	21.63	1
				50	28	22.75	23.11	22.96	0
				50	56	21.78	22.10	21.89	1
				100	0	21.75	22.13	21.53	1
			16QAM	1	1	21.61	22.33	21.89	1
			64QAM	1	1	20.31	20.75	20.42	2.5
			256QAM	1	1	18.06	18.47	18.62	4.5
		CP	QPSK	1	1	21.16	21.56	21.24	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		22.85		0
				1	13		22.76		0
				1	23		22.47		0
				12	0		22.34		0.5
				12	7		22.68		0
				12	13		22.08		0.5
				25	0		22.22		0.5
			QPSK	1	1		22.72		0
				1	13		22.56		0
				1	23		22.32		0
				12	0		21.87		1
				12	7		22.54		0
				12	13		21.64		1
				25	0		21.80		1
			16QAM	1	1		21.69		1
			64QAM	1	1		20.52		2.5
			256QAM	1	1		18.19		4.5
		CP	QPSK	1	1		21.26		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		22.76		0
				1	26		22.82		0
				1	50		22.04		0
				25	0		22.32		0.5
				25	14		22.76		0
				25	27		21.91		0.5
				50	0		22.25		0.5
			QPSK	1	1		22.81		0
				1	26		22.62		0
				1	50		22.43		0
				25	0		21.86		1
				25	14		22.62		0
				25	27		21.46		1
				50	0		21.83		1
			16QAM	1	1		21.75		1
			64QAM	1	1		20.43		2.5
			256QAM	1	1		18.17		4.5
		CP	QPSK	1	1		21.22		1.5

[NR Band n41 Conducted Power Sub #2 Ant]

Band n41 _10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						500202 2501.01 ㎒	509400 2547 ㎒	518598 2592.99 ㎒	527802 2639.01 ㎒	537000 2685 ㎒	
10MHz	30	DFT-s	pi/2 BPSK	1	1	24.44	24.23	24.50	24.52	24.42	0
				1	12	24.41	24.28	24.49	24.46	24.46	0
				1	22	24.41	24.29	24.55	24.56	24.63	0
				12	0	23.86	23.70	23.95	24.01	23.92	0.5
				12	6	24.35	24.24	24.49	24.50	24.48	0
				12	12	23.86	23.78	24.01	24.01	24.03	0.5
				24	0	23.84	23.75	23.99	24.00	24.00	0.5
			QPSK	1	1	24.42	24.24	24.49	24.54	24.45	0
				1	12	24.39	24.24	24.48	24.55	24.51	0
				1	22	24.40	24.29	24.52	24.54	24.63	0
				12	0	23.35	23.21	23.48	23.52	23.43	1
				12	6	24.36	24.24	24.48	24.51	24.49	0
				12	12	23.36	23.28	23.52	23.52	23.57	1
				24	0	23.34	23.25	23.50	23.52	23.49	1
			16QAM	1	1	23.44	23.22	23.48	23.70	23.50	1
			64QAM	1	1	21.82	21.63	21.96	22.04	21.92	2.5
			256QAM	1	1	19.74	19.59	19.83	19.84	19.72	4.5
		CP	QPSK	1	1	22.81	22.62	22.88	22.91	22.81	1.5

Band n41 _15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						500700 2503.5 ㎒	509664 2548.32 ㎒	518598 2592.99 ㎒	527562 2637.81 ㎒	536496 2682.48 ㎒	
15MHz	30	DFT-s	pi/2 BPSK	1	1	24.44	24.26	24.45	24.51	24.62	0
				1	18	24.40	24.26	24.45	24.42	24.57	0
				1	36	24.42	24.36	24.54	24.53	24.76	0
				18	0	23.89	23.75	23.98	23.98	24.11	0.5
				18	9	24.42	24.30	24.49	24.49	24.62	0
				18	18	23.89	23.82	24.03	23.99	24.17	0.5
				36	0	23.90	23.78	23.99	24.01	24.13	0.5
			QPSK	1	1	24.40	24.19	24.45	24.45	24.64	0
				1	18	24.36	24.22	24.48	24.42	24.58	0
				1	36	24.37	24.35	24.53	24.51	24.78	0
				18	0	23.41	23.26	23.50	23.50	23.62	1
				18	9	24.42	24.31	24.49	24.49	24.66	0
				18	18	23.39	23.33	23.54	23.49	23.68	1
				36	0	23.41	23.32	23.51	23.53	23.66	1
			16QAM	1	1	23.46	23.29	23.57	23.48	23.66	1
			64QAM	1	1	21.89	21.72	21.98	22.00	22.14	2.5
			256QAM	1	1	19.75	19.56	19.81	19.84	19.96	4.5
		CP	QPSK	1	1	22.81	22.61	22.84	22.92	23.06	1.5

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	
20MHz	30	DFT-s	pi/2 BPSK	1	1	24.26	24.28	24.46	24.48	24.60	0
				1	26	24.26	24.36	24.54	24.48	24.60	0
				1	49	24.27	24.41	24.61	24.50	24.76	0
				25	0	23.75	23.81	24.00	23.97	24.09	0.5
				25	13	24.26	24.35	24.54	24.48	24.59	0
				25	26	23.74	23.88	24.07	23.98	24.10	0.5
				50	0	23.74	23.86	24.01	23.98	24.10	0.5
			QPSK	1	1	24.29	24.27	24.46	24.49	24.60	0
				1	26	24.26	24.37	24.51	24.47	24.61	0
				1	49	24.21	24.39	24.56	24.51	24.75	0
				25	0	23.25	23.31	23.52	23.49	23.63	1
				25	13	24.27	24.36	24.53	24.51	24.62	0
				25	26	23.26	23.39	23.56	23.51	23.62	1
				50	0	23.25	23.39	23.52	23.50	23.59	1
			16QAM	1	1	23.36	23.48	23.45	23.58	23.64	1
			64QAM	1	1	21.77	21.77	21.90	21.97	22.07	2.5
			256QAM	1	1	19.64	19.58	19.82	19.81	19.95	4.5
		CP	QPSK	1	1	22.72	22.64	22.88	22.85	23.01	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	
30MHz	30	DFT-s	pi/2 BPSK	1	1	24.28	24.27	24.47	24.65	24.72	0
				1	39	24.27	24.43	24.56	24.66	24.78	0
				1	76	24.19	24.42	24.57	24.63	24.84	0
				36	0	23.79	23.85	23.98	24.14	24.19	0.5
				36	21	24.29	24.41	24.53	24.65	24.73	0
				36	42	23.72	23.91	24.06	24.11	24.24	0.5
				75	0	23.78	23.90	24.02	24.12	24.25	0.5
			QPSK	1	1	24.30	24.27	24.44	24.67	24.72	0
				1	39	24.31	24.48	24.53	24.64	24.74	0
				1	76	24.21	24.42	24.54	24.64	24.86	0
				36	0	23.38	23.32	23.48	23.67	23.73	1
				36	21	24.36	24.44	24.54	24.68	24.78	0
				36	42	23.29	23.43	23.58	23.66	23.77	1
				75	0	23.34	23.40	23.54	23.67	23.77	1
			16QAM	1	1	23.39	23.31	23.48	23.69	23.72	1
			64QAM	1	1	21.81	21.75	21.95	22.06	22.25	2.5
			256QAM	1	1	19.68	19.62	19.78	19.99	20.03	4.5
		CP	QPSK	1	1	22.72	22.66	22.76	23.09	23.14	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	
40MHz	30	DFT-s	pi/2 BPSK	1	1	24.28	24.27		24.42	24.59	0
				1	53	24.20	24.36		24.57	24.66	0
				1	104	24.20	24.40		24.55	24.82	0
				50	0	23.75	23.82		23.96	24.12	0.5
				50	28	24.24	24.35		24.59	24.67	0
				50	56	23.69	23.87		24.06	24.15	0.5
				100	0	23.71	23.86		24.04	24.15	0.5
			QPSK	1	1	24.27	24.26		24.41	24.57	0
				1	53	24.27	24.39		24.55	24.70	0
				1	104	24.19	24.38		24.54	24.79	0
				50	0	23.26	23.31		23.50	23.66	1
				50	28	24.23	24.37		24.59	24.70	0
				50	56	23.22	23.37		23.55	23.67	1
				100	0	23.22	23.37		23.55	23.68	1
			16QAM	1	1	23.21	23.08		23.38	23.68	1
			64QAM	1	1	21.77	21.73		21.93	22.08	2.5
			256QAM	1	1	19.65	19.58		19.76	19.92	4.5
		CP	QPSK	1	1	22.76	22.69		22.80	23.01	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	
50MHz	30	DFT-s	pi/2 BPSK	1	1	24.34		24.40		24.64	0
				1	67	24.34		24.57		24.76	0
				1	131	24.34		24.58		24.85	0
				64	0	23.85		23.96		24.22	0.5
				64	35	24.34		24.59		24.76	0
				64	69	23.79		24.10		24.23	0.5
				128	0	23.80		24.03		24.25	0.5
			QPSK	1	1	24.41		24.41		24.62	0
				1	67	24.38		24.61		24.75	0
				1	131	24.37		24.60		24.81	0
				64	0	23.38		23.48		23.74	1
				64	35	24.36		24.58		24.80	0
				64	69	23.28		23.60		23.76	1
				128	0	23.32		23.54		23.80	1
			16QAM	1	1	23.41		23.44		23.54	1
			64QAM	1	1	21.82		21.86		22.15	2.5
			256QAM	1	1	19.71		19.72		19.94	4.5
		CP	QPSK	1	1	22.78		22.83		23.00	1.5

NR Band n41 _60 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						505200		518598		531996	
						2526 ㎒		2592.99 ㎒		2659.98 ㎒	
60MHz	30	DFT-s	pi/2 BPSK	1	1	24.24		24.38		24.49	0
				1	81	24.22		24.60		24.67	0
				1	160	24.37		24.60		24.79	0
				81	0	23.73		23.97		24.09	0.5
				81	41	24.22		24.61		24.68	0
				81	81	23.75		24.10		24.18	0.5
				162	0	23.69		24.02		24.20	0.5
			QPSK	1	1	24.20		24.34		24.53	0
				1	81	24.25		24.63		24.73	0
				1	160	24.32		24.56		24.82	0
				81	0	23.24		23.50		23.60	1
				81	41	24.23		24.58		24.69	0
				81	81	23.27		23.61		23.69	1
				162	0	23.22		23.56		23.72	1
			16QAM	1	1	23.26		23.44		23.61	1
			64QAM	1	1	21.73		21.86		21.97	2.5
			256QAM	1	1	19.58		19.72		19.87	4.5
		CP	QPSK	1	1	22.65		22.71		22.99	1.5

NR Band n41 _70 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						506208				530994	
						2531.04 ㎒				2654.97 ㎒	
70MHz	30	DFT-s	pi/2 BPSK	1	1	24.31				24.58	0
				1	81	24.36				24.80	0
				1	160	24.46				24.67	0
				81	0	23.81				24.18	0.5
				81	41	24.33				24.76	0
				81	81	23.85				24.28	0.5
				162	0	23.78				24.25	0.5
			QPSK	1	1	24.29				24.64	0
				1	81	24.35				24.80	0
				1	160	24.40				24.72	0
				81	0	23.36				23.69	1
				81	41	24.35				24.78	0
				81	81	23.37				23.79	1
				162	0	23.32				23.77	1
			16QAM	1	1	23.43				23.68	1
			64QAM	1	1	21.81				22.06	2.5
			256QAM	1	1	19.61				19.89	4.5
		CP	QPSK	1	1	22.74				23.01	1.5

NR Band n41 _80 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						507204				529998	
						2536.02 ㎒				2649.99 ㎒	
80MHz	30	DFT-s	pi/2 BPSK	1	1	24.25				24.49	0
				1	109	24.21				24.65	0
				1	215	24.43				24.80	0
				108	0	23.69				24.08	0.5
				108	55	24.22				24.66	0
				108	109	23.87				24.16	0.5
				216	0	23.70				24.17	0.5
			QPSK	1	1	24.23				24.47	0
				1	109	24.20				24.64	0
				1	215	24.39				24.79	0
				108	0	23.20				23.61	1
				108	55	24.25				24.68	0
				108	109	23.39				23.71	1
				216	0	23.21				23.67	1
			16QAM	1	1	23.10				23.60	1
			64QAM	1	1	21.76				22.01	2.5
			256QAM	1	1	19.58				19.84	4.5
		CP	QPSK	1	1	22.61				22.88	1.5

NR Band n41 _90 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						508200				528996	
						2541 ㎒				2644.98 ㎒	
90MHz	30	DFT-s	pi/2 BPSK	1	1	24.32				24.50	0
				1	123	24.38				24.74	0
				1	243	24.46				24.76	0
				120	0	23.80				24.18	0.5
				120	63	24.39				24.77	0
				120	125	23.94				24.22	0.5
				243	0	23.84				24.28	0.5
			QPSK	1	1	24.33				24.50	0
				1	123	24.40				24.76	0
				1	243	24.46				24.76	0
				120	0	23.33				23.68	1
				120	63	24.43				24.77	0
				120	125	23.46				23.71	1
				243	0	23.36				23.77	1
			16QAM	1	1	23.21				23.60	1
			64QAM	1	1	21.81				22.01	2.5
			256QAM	1	1	19.71				19.89	4.5
		CP	QPSK	1	1	22.74				22.90	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 MHz			
100MHz	30	DFT-s	pi/2 BPSK	1	1			24.30			0
				1	137			24.63			0
				1	271			24.59			0
				135	0			23.94			0.5
				135	69			24.60			0
				135	138			24.14			0.5
				270	0			24.03			0.5
			QPSK	1	1			24.35			0
				1	137			24.67			0
				1	271			24.62			0
				135	0			23.45			1
				135	69			24.63			0
				135	138			23.65			1
				270	0			23.55			1
			16QAM	1	1			23.34			1
			64QAM	1	1			21.76			2.5
			256QAM	1	1			19.65			4.5
		CP	QPSK	1	1			22.74			1.5

[NR Band n41 Conducted Power Main#2 Ant]

Band n41 _10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						500202 2501.01 ㎒	509400 2547 ㎒	518598 2592.99 ㎒	527802 2639.01 ㎒	537000 2685 ㎒	
10MHz	30	DFT-s	pi/2 BPSK	1	1	23.64	23.86	24.36	24.26	23.86	0
				1	12	23.67	23.94	24.39	24.27	23.81	0
				1	22	23.57	24.03	24.47	24.26	23.89	0
				12	0	23.10	23.36	23.87	23.77	23.32	0.5
				12	6	23.59	23.92	24.38	24.33	23.84	0
				12	12	23.07	23.48	23.95	23.77	23.34	0.5
				24	0	23.10	23.43	23.89	23.82	23.33	0.5
			QPSK	1	1	23.62	23.83	24.41	24.24	23.84	0
				1	12	23.63	23.88	24.48	24.31	23.83	0
				1	22	23.58	24.01	24.49	24.23	23.83	0
				12	0	22.62	22.85	23.35	23.27	22.79	1
				12	6	23.62	23.92	24.40	24.34	23.84	0
				12	12	22.54	22.94	23.43	23.28	22.82	1
				24	0	22.59	22.90	23.37	23.26	22.79	1
			16QAM	1	1	22.47	22.98	23.38	23.39	22.96	1
			64QAM	1	1	21.10	21.35	21.82	21.73	21.26	2.5
			256QAM	1	1	18.94	19.19	19.70	19.55	19.13	4.5
		CP	QPSK	1	1	22.05	22.27	22.73	22.70	22.18	1.5

Band n41 _15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						500700 2503.5 ㎒	509664 2548.32 ㎒	518598 2592.99 ㎒	527562 2637.81 ㎒	536496 2682.48 ㎒	
15MHz	30	DFT-s	pi/2 BPSK	1	1	23.72	23.93	24.38	24.27	24.08	0
				1	18	23.60	23.95	24.38	24.24	23.97	0
				1	36	23.74	24.09	24.45	24.18	24.02	0
				18	0	23.20	23.43	23.90	23.76	23.54	0.5
				18	9	23.64	24.00	24.41	24.30	24.02	0
				18	18	23.22	23.57	23.99	23.81	23.51	0.5
				36	0	23.12	23.47	23.90	23.79	23.54	0.5
			QPSK	1	1	23.74	23.89	24.37	24.25	24.06	0
				1	18	23.64	23.90	24.34	24.23	23.97	0
				1	36	23.72	24.10	24.41	24.18	23.98	0
				18	0	22.70	22.89	23.38	23.22	23.04	1
				18	9	23.66	23.97	24.37	24.31	24.05	0
				18	18	22.67	23.05	23.48	23.30	22.98	1
				36	0	22.60	22.95	23.36	23.26	22.99	1
			16QAM	1	1	22.77	22.71	23.27	23.31	22.90	1
			64QAM	1	1	21.12	21.35	21.87	21.73	21.55	2.5
			256QAM	1	1	18.99	19.22	19.73	19.51	19.36	4.5
		CP	QPSK	1	1	22.09	22.34	22.78	22.55	22.51	1.5

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	
20MHz	30	DFT-s	pi/2 BPSK	1	1	23.52	23.96	24.42	24.26	24.08	0
				1	26	23.55	24.08	24.43	24.24	24.01	0
				1	49	23.56	24.14	24.44	24.18	24.01	0
				25	0	23.00	23.42	23.88	23.73	23.55	0.5
				25	13	23.53	24.06	24.43	24.26	24.01	0
				25	26	23.02	23.63	23.98	23.73	23.49	0.5
				50	0	23.01	23.56	23.91	23.72	23.54	0.5
			QPSK	1	1	23.59	23.97	24.45	24.31	24.09	0
				1	26	23.60	24.09	24.47	24.28	24.03	0
				1	49	23.57	24.16	24.45	24.19	24.04	0
				25	0	22.49	22.92	23.38	23.25	23.08	1
				25	13	23.52	24.06	24.44	24.26	24.04	0
				25	26	22.52	23.11	23.43	23.24	22.98	1
				50	0	22.49	23.02	23.38	23.22	22.99	1
			16QAM	1	1	22.57	23.00	23.50	23.29	23.06	1
			64QAM	1	1	20.95	21.37	21.85	21.70	21.51	2.5
			256QAM	1	1	18.80	19.27	19.77	19.54	19.38	4.5
		CP	QPSK	1	1	21.87	22.35	22.79	22.66	22.41	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	
30MHz	30	DFT-s	pi/2 BPSK	1	1	23.61	23.91	24.33	24.41	24.30	0
				1	39	23.62	24.22	24.43	24.39	24.25	0
				1	76	23.77	24.29	24.45	24.27	24.08	0
				36	0	23.07	23.47	23.93	23.92	23.75	0.5
				36	21	23.66	24.18	24.45	24.44	24.22	0
				36	42	23.18	23.65	23.92	23.91	23.63	0.5
				75	0	23.14	23.68	23.93	23.89	23.72	0.5
			QPSK	1	1	23.64	23.88	24.34	24.46	24.26	0
				1	39	23.66	24.23	24.43	24.38	24.21	0
				1	76	23.70	24.26	24.40	24.29	24.08	0
				36	0	22.58	22.99	23.42	23.41	23.22	1
				36	21	23.65	24.20	24.45	24.43	24.24	0
				36	42	22.67	23.16	23.41	23.37	23.09	1
				75	0	22.64	23.11	23.38	23.38	23.18	1
			16QAM	1	1	22.48	22.80	23.40	23.53	23.35	1
			64QAM	1	1	21.09	21.37	21.75	21.86	21.73	2.5
			256QAM	1	1	18.97	19.24	19.65	19.72	19.56	4.5
		CP	QPSK	1	1	21.96	22.18	22.67	22.83	22.62	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	
40MHz	30	DFT-s	pi/2 BPSK	1	1	23.51	23.76		24.22	24.12	0
				1	53	23.58	23.95		24.26	24.15	0
				1	104	23.66	24.17		24.23	23.98	0
				50	0	23.05	23.40		23.82	23.66	0.5
				50	28	23.58	24.01		24.34	24.13	0
				50	56	23.17	23.59		23.76	23.56	0.5
				100	0	23.07	23.53		23.81	23.64	0.5
			QPSK	1	1	23.58	23.78		24.27	24.17	0
				1	53	23.66	24.07		24.31	24.18	0
				1	104	23.72	24.16		24.25	24.04	0
				50	0	22.55	22.95		23.32	23.15	1
				50	28	23.60	24.07		24.34	24.15	0
				50	56	22.66	23.09		23.28	23.02	1
				100	0	22.54	23.05		23.28	23.10	1
			16QAM	1	1	22.55	22.69		23.04	23.15	1
			64QAM	1	1	20.94	21.35		21.73	21.51	2.5
			256QAM	1	1	18.83	19.16		19.57	19.42	4.5
		CP	QPSK	1	1	21.93	22.28		22.68	22.55	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	
50MHz	30	DFT-s	pi/2 BPSK	1	1	23.58		24.14		24.37	0
				1	67	23.75		24.49		24.29	0
				1	131	23.95		24.35		24.08	0
				64	0	23.18		23.82		23.71	0.5
				64	35	23.75		24.47		24.31	0
				64	69	23.22		23.90		23.69	0.5
				128	0	23.21		23.89		23.76	0.5
			QPSK	1	1	23.55		24.20		24.38	0
				1	67	23.71		24.49		24.25	0
				1	131	23.91		24.37		24.02	0
				64	0	22.66		23.32		23.21	1
				64	35	23.75		24.43		24.33	0
				64	69	22.70		23.43		23.15	1
				128	0	22.71		23.37		23.25	1
			16QAM	1	1	22.67		23.15		23.44	1
			64QAM	1	1	21.06		21.60		21.83	2.5
			256QAM	1	1	18.90		19.44		19.66	4.5
		CP	QPSK	1	1	21.97		22.49		22.74	1.5

NR Band n41 _60 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						505200		518598		531996	
						2526 ㎒		2592.99 ㎒		2659.98 ㎒	
60MHz	30	DFT-s	pi/2 BPSK	1	1	23.46		24.26		24.07	0
				1	81	23.67		24.52		24.06	0
				1	160	24.11		24.34		23.86	0
				81	0	22.99		23.83		23.58	0.5
				81	41	23.66		24.47		24.08	0
				81	81	23.43		23.97		23.51	0.5
				162	0	23.15		23.92		23.59	0.5
			QPSK	1	1	23.43		24.20		24.13	0
				1	81	23.69		24.52		24.13	0
				1	160	24.07		24.32		23.90	0
				81	0	22.50		23.30		23.11	1
				81	41	23.68		24.47		24.15	0
				81	81	22.96		23.44		23.01	1
				162	0	22.65		23.40		23.09	1
			16QAM	1	1	22.55		23.19		23.31	1
			64QAM	1	1	20.86		21.67		21.64	2.5
			256QAM	1	1	18.76		19.53		19.49	4.5
		CP	QPSK	1	1	21.80		22.55		22.56	1.5

NR Band n41 _70 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						506208				530994	
						2531.04 ㎒				2654.97 ㎒	
70MHz	30	DFT-s	pi/2 BPSK	1	1	23.33				24.31	0
				1	81	23.64				24.33	0
				1	160	24.00				24.09	0
				81	0	22.93				23.85	0.5
				81	41	23.63				24.28	0
				81	81	23.39				23.74	0.5
				162	0	23.14				23.73	0.5
			QPSK	1	1	23.43				24.29	0
				1	81	23.72				24.31	0
				1	160	24.06				24.07	0
				81	0	22.48				23.34	1
				81	41	23.72				24.31	0
				81	81	22.95				23.22	1
				162	0	22.66				23.20	1
			16QAM	1	1	22.28				23.26	1
			64QAM	1	1	20.93				21.82	2.5
			256QAM	1	1	18.75				19.65	4.5
		CP	QPSK	1	1	21.87				22.72	1.5

NR Band n41 _80 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						507204				529998	
						2536.02 ㎒				2649.99 ㎒	
80MHz	30	DFT-s	pi/2 BPSK	1	1	23.43				24.26	0
				1	109	23.71				24.20	0
				1	215	24.23				24.00	0
				108	0	23.02				23.79	0.5
				108	55	23.73				24.23	0
				108	109	23.59				23.62	0.5
				216	0	23.20				23.65	0.5
			QPSK	1	1	23.45				24.32	0
				1	109	23.72				24.24	0
				1	215	24.22				23.99	0
				108	0	22.50				23.26	1
				108	55	23.72				24.22	0
				108	109	23.07				23.11	1
				216	0	22.67				23.14	1
			16QAM	1	1	22.31				23.11	1
			64QAM	1	1	20.93				21.73	2.5
			256QAM	1	1	18.79				19.61	4.5
		CP	QPSK	1	1	21.88				22.67	1.5

NR Band n41 _90 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						508200				528996	
						2541 ㎒				2644.98 ㎒	
90MHz	30	DFT-s	pi/2 BPSK	1	1	23.55				24.35	0
				1	123	24.08				24.36	0
				1	243	24.39				23.97	0
				120	0	23.17				23.91	0.5
				120	63	24.07				24.33	0
				120	125	23.79				23.69	0.5
				243	0	23.53				23.78	0.5
			QPSK	1	1	23.53				24.39	0
				1	123	24.09				24.42	0
				1	243	24.42				23.99	0
				120	0	22.66				23.37	1
				120	63	24.08				24.37	0
				120	125	23.27				23.15	1
				243	0	22.99				23.25	1
			16QAM	1	1	22.45				23.42	1
			64QAM	1	1	21.01				21.75	2.5
			256QAM	1	1	18.90				19.63	4.5
		CP	QPSK	1	1	21.99				22.74	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 MHz			
100MHz	30	DFT-s	pi/2 BPSK	1	1			23.85			0
				1	137			24.50			0
				1	271			24.30			0
				135	0			23.68			0.5
				135	69			24.45			0
				135	138			23.90			0.5
				270	0			23.87			0.5
			QPSK	1	1			23.94			0
				1	137			24.53			0
				1	271			24.34			0
				135	0			23.19			1
				135	69			24.51			0
				135	138			23.35			1
				270	0			23.36			1
			16QAM	1	1			22.96			1
			64QAM	1	1			21.27			2.5
			256QAM	1	1			19.24			4.5
		CP	QPSK	1	1			22.33			1.5

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

NR Band n41 _10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						500202	509400	518598	527802	537000	
						2501.01 MHz	2547 MHz	2592.99 MHz	2639.01 MHz	2685 MHz	
10MHz	30	DFT-s	pi/2 BPSK	1	1	25.44	25.04	25.04	25.14	25.05	0
				1	12	25.48	25.09	25.21	25.23	25.06	0
				1	22	25.44	25.08	25.18	25.28	25.18	0
				12	0	24.94	24.54	24.65	24.76	24.58	0.5
				12	6	25.47	25.07	25.17	25.29	25.10	0
				12	12	24.94	24.61	24.67	24.87	24.66	0.5
				24	0	24.97	24.57	24.70	24.83	24.62	0.5
			QPSK	1	1	25.43	25.06	25.18	25.30	25.08	0
				1	12	25.48	25.15	25.22	25.38	25.19	0
				1	22	25.46	25.13	25.22	25.39	25.21	0
				12	0	24.48	24.08	24.18	24.33	24.11	1
				12	6	25.44	25.10	25.21	25.38	25.12	0
				12	12	24.45	24.11	24.23	24.41	24.18	1
				24	0	24.47	24.08	24.18	24.34	24.16	1
			16QAM	1	1	24.56	24.14	24.15	24.40	24.03	1
			64QAM	1	1	22.97	22.51	22.74	22.73	22.69	2.5
			256QAM	1	1	20.71	20.36	20.51	20.69	20.41	4.5
		CP	QPSK	1	1	23.71	23.42	23.53	23.73	23.46	1.5

NR Band n41 _15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						500700	509664	518598	527562	536496	
						2503.5 MHz	2548.32 MHz	2592.99 MHz	2637.81 MHz	2682.48 MHz	
15MHz	30	DFT-s	pi/2 BPSK	1	1	25.38	25.03	25.07	25.31	25.28	0
				1	18	25.37	25.05	25.05	25.27	25.13	0
				1	36	25.40	25.12	25.20	25.44	25.36	0
				18	0	24.97	24.61	24.64	24.86	24.83	0.5
				18	9	25.46	25.13	25.19	25.40	25.29	0
				18	18	24.96	24.67	24.72	24.94	24.80	0.5
				36	0	24.99	24.67	24.71	24.92	24.77	0.5
			QPSK	1	1	25.46	25.10	25.09	25.32	25.34	0
				1	18	25.40	25.08	25.11	25.33	25.28	0
				1	36	25.46	25.22	25.22	25.47	25.42	0
				18	0	24.50	24.11	24.20	24.37	24.38	1
				18	9	25.49	25.14	25.21	25.42	25.33	0
				18	18	24.47	24.20	24.24	24.44	24.34	1
				36	0	24.50	24.16	24.22	24.39	24.35	1
			16QAM	1	1	24.50	24.13	24.08	24.29	24.38	1
			64QAM	1	1	23.02	22.50	22.55	22.90	22.98	2.5
			256QAM	1	1	20.93	20.62	20.71	20.73	20.92	4.5
		CP	QPSK	1	1	23.99	23.51	23.52	23.75	23.83	1.5

NR Band n41 _20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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 ㎒	
20MHz	30	DFT-s	pi/2 BPSK	1	1	24.98	24.92	25.07	25.15	25.22	0
				1	26	25.01	25.01	25.15	25.29	25.10	0
				1	49	24.95	25.05	25.27	25.40	25.29	0
				25	0	24.93	24.56	24.63	24.74	24.79	0.5
				25	13	**25.31**	**25.13**	25.22	25.30	25.21	0
				25	26	24.97	24.63	24.71	24.83	24.71	0.5
				50	0	24.94	24.66	24.73	24.82	24.78	0.5
			QPSK	1	1	24.86	25.09	25.13	25.29	25.35	0
				1	26	25.01	25.15	25.19	25.23	25.22	0
				1	49	24.95	25.15	25.24	25.44	25.31	0
				25	0	24.03	24.11	24.21	24.31	24.35	1
				25	13	24.97	25.18	25.26	25.32	25.31	0
				25	26	24.03	24.17	24.27	24.39	24.25	1
				50	0	24.07	24.17	24.26	24.32	24.32	1
			16QAM	1	1	23.84	24.07	24.18	24.31	24.39	1
			64QAM	1	1	22.64	22.68	22.73	22.71	23.01	2.5
			256QAM	1	1	20.92	20.46	20.51	20.61	20.80	4.5
		CP	QPSK	1	1	23.74	23.48	23.56	23.59	23.86	1.5

NR Band n41 _30 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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**	
30MHz	30	DFT-s	pi/2 BPSK	1	1	25.33	25.18	25.24	25.28	25.60	0
				1	39	25.41	25.29	25.40	25.39	25.47	0
				1	76	25.22	25.21	25.36	25.51	25.44	0
				36	0	24.91	24.70	24.74	24.91	25.11	0.5
				36	21	25.41	25.31	25.34	25.47	25.52	0
				36	42	24.84	24.79	24.86	25.03	24.89	0.5
				75	0	24.93	24.82	24.79	24.98	25.04	0.5
			QPSK	1	1	25.45	25.21	25.24	25.44	25.69	0
				1	39	25.49	25.32	25.34	25.49	25.57	0
				1	76	25.26	25.20	25.36	25.58	25.50	0
				36	0	24.47	24.21	24.24	24.49	24.65	1
				36	21	25.48	25.31	25.32	25.52	25.57	0
				36	42	24.34	24.25	24.38	24.60	24.43	1
				75	0	24.44	24.29	24.30	24.51	24.56	1
			16QAM	1	1	24.52	24.30	24.26	24.49	24.70	1
			64QAM	1	1	22.85	22.63	22.69	23.10	23.37	2.5
			256QAM	1	1	20.84	20.70	20.72	20.93	21.21	4.5
		CP	QPSK	1	1	23.87	23.55	23.57	23.80	24.05	1.5

NR Band n41 _40 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	
40MHz	30	DFT-s	pi/2 BPSK	1	1	25.26	24.90		25.03	25.37	0
				1	53	25.32	25.03		25.32	25.42	0
				1	104	25.05	24.99		25.29	25.27	0
				50	0	24.82	24.57		24.67	25.06	0.5
				50	28	25.27	25.11		25.31	25.45	0
				50	56	24.69	24.60		24.84	24.84	0.5
				100	0	24.83	24.65		24.76	25.00	0.5
			QPSK	1	1	25.29	25.05		25.12	25.58	0
				1	53	25.32	25.07		25.32	25.60	0
				1	104	25.10	25.08		25.39	25.44	0
				50	0	24.36	24.13		24.24	24.61	1
				50	28	25.33	25.16		25.34	25.52	0
				50	56	24.21	24.10		24.39	24.41	1
				100	0	24.33	24.16		24.35	24.55	1
			16QAM	1	1	24.41	24.17		24.30	24.76	1
			64QAM	1	1	22.57	22.54		22.45	22.79	2.5
			256QAM	1	1	20.81	20.39		20.55	21.11	4.5
		CP	QPSK	1	1	23.72	23.51		23.59	23.93	1.5

NR Band n41 _50 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						504204		518598		532998	
						2521.02 ㎒		2592.99 ㎒		2664.99 ㎒	
50MHz	30	DFT-s	pi/2 BPSK	1	1	25.40		25.02		25.57	0
				1	67	25.33		25.16		25.71	0
				1	131	25.15		25.22		25.51	0
				64	0	25.00		24.68		25.28	0.5
				64	35	25.42		25.25		25.76	0
				64	69	24.75		24.81		25.06	0.5
				128	0	24.88		24.74		25.29	0.5
			QPSK	1	1	25.54		25.14		25.64	0
				1	67	25.37		25.23		25.73	0
				1	131	25.16		25.30		25.58	0
				64	0	24.51		24.22		24.78	1
				64	35	25.45		25.33		25.79	0
				64	69	24.27		24.34		24.56	1
				128	0	24.41		24.28		24.80	1
			16QAM	1	1	24.46		24.10		24.47	1
			64QAM	1	1	23.16		22.62		23.24	2.5
			256QAM	1	1	21.05		20.57		21.18	4.5
		CP	QPSK	1	1	23.92		23.72		24.01	1.5

NR Band n41 _60 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						505200		518598		531996	
						2526 MHz		2592.99 MHz		2659.98 MHz	
60MHz	30	DFT-s	pi/2 BPSK	1	1	25.27		25.20		25.18	0
				1	81	25.17		25.37		25.59	0
				1	160	25.17		25.44		25.28	0
				81	0	24.84		24.80		24.92	0.5
				81	41	25.26		25.39		25.53	0
				81	81	24.68		24.94		24.89	0.5
				162	0	24.75		24.87		25.04	0.5
			QPSK	1	1	25.38		25.27		25.31	0
				1	81	25.28		25.48		25.60	0
				1	160	25.27		25.54		25.35	0
				81	0	24.40		24.30		24.47	1
				81	41	25.26		25.39		25.57	0
				81	81	24.18		24.43		24.43	1
				162	0	24.26		24.36		24.59	1
			16QAM	1	1	24.50		24.18		24.17	1
			64QAM	1	1	22.66		22.54		22.54	2.5
			256QAM	1	1	20.93		20.74		20.76	4.5
		CP	QPSK	1	1	23.79		23.59		23.51	1.5

NR Band n41 _70 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						506208				530994	
						2531.04 MHz				2654.97 MHz	
70MHz	30	DFT-s	pi/2 BPSK	1	1	25.31				25.51	0
				1	81	25.24				25.48	0
				1	160	25.18				25.22	0
				81	0	24.86				24.89	0.5
				81	41	25.27				25.58	0
				81	81	24.68				25.09	0.5
				162	0	24.77				25.10	0.5
			QPSK	1	1	25.40				25.29	0
				1	81	25.31				25.68	0
				1	160	25.22				25.36	0
				81	0	24.41				24.48	1
				81	41	25.30				25.68	0
				81	81	24.21				24.65	1
				162	0	24.31				24.69	1
			16QAM	1	1	24.50				24.44	1
			64QAM	1	1	22.77				22.73	2.5
			256QAM	1	1	20.66				20.71	4.5
		CP	QPSK	1	1	23.74				23.84	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	
80MHz	30	DFT-s	pi/2 BPSK	1	1	24.89				25.06	0
				1	109	24.94				25.44	0
				1	215	25.06				25.28	0
				108	0	24.70				24.84	0.5
				108	55	**25.09**				25.55	0
				108	109	**24.66**				25.02	0.5
				216	0	24.58				25.05	0.5
			QPSK	1	1	25.33				25.19	0
				1	109	25.03				25.56	0
				1	215	25.16				25.40	0
				108	0	24.26				24.41	1
				108	55	**25.12**				25.62	0
				108	109	**24.21**				24.56	1
				216	0	24.13				24.60	1
			16QAM	1	1	24.23				24.33	1
			64QAM	1	1	22.74				22.69	2.5
			256QAM	1	1	20.86				20.74	4.5
		CP	QPSK	1	1	23.68				23.62	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**	
90MHz	30	DFT-s	pi/2 BPSK	1	1	25.35				25.25	0
				1	123	25.20				25.70	0
				1	243	25.19				25.39	0
				120	0	24.84				24.95	0.5
				120	63	**25.23**				25.66	0
				120	125	**24.59**				25.08	0.5
				243	0	24.72				25.09	0.5
			QPSK	1	1	25.43				25.24	0
				1	123	25.25				25.67	0
				1	243	25.25				25.39	0
				120	0	24.37				24.50	1
				120	63	25.24				25.68	0
				120	125	24.09				24.64	1
				243	0	24.25				24.64	1
			16QAM	1	1	24.57				24.29	1
			64QAM	1	1	22.75				22.50	2.5
			256QAM	1	1	20.90				20.81	4.5
		CP	QPSK	1	1	23.86				23.68	1.5

NR Band n41 _100 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
								518598			
								2592.99 ㎒			
100MHz	30	DFT-s	pi/2 BPSK	1	1			25.02			0
				1	137			25.31			0
				1	271			25.53			0
				135	0			24.71			0.5
				135	69			25.30			0
				135	138			24.91			0.5
				270	0			24.79			0.5
			QPSK	1	1			25.11			0
				1	137			25.33			0
				1	271			25.57			0
				135	0			24.28			1
				135	69			25.36			0
				135	138			24.45			1
				270	0			24.34			1
			16QAM	1	1			24.18			1
			64QAM	1	1			22.54			2.5
			256QAM	1	1			20.56			4.5
		CP	QPSK	1	1			23.56			1.5

[NR Band n66 Conducted Power]

NR Band n66 _5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						342500	349000	355500	
						1712.5 MHz	1745 MHz	1777.5MHz	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	22.91	23.08	23.23	0
				1	13	22.85	23.06	23.22	0
				1	23	22.94	23.16	23.00	0
				12	0	22.47	22.63	22.80	0.5
				12	7	22.98	23.17	23.11	0
				12	13	22.50	22.66	22.63	0.5
				25	0	22.49	22.65	22.77	0.5
			QPSK	1	1	22.77	23.10	23.27	0
				1	13	22.81	23.07	22.87	0
				1	23	22.88	23.18	22.73	0
				12	0	22.00	22.14	22.35	1
				12	7	22.90	23.19	22.90	0
				12	13	22.01	22.18	22.08	1
				25	0	22.03	22.16	22.26	1
			16QAM	1	1	21.91	21.96	22.48	1
			64QAM	1	1	20.62	20.79	20.93	2.5
			256QAM	1	1	18.30	18.50	18.67	4.5
		CP	QPSK	1	1	21.35	21.52	21.73	1.5

NR Band n66 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						343000	**349000**	**355500**	
						1715MHz	**1745 MHz**	**1775 MHz**	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	22.78	23.01	23.10	0
				1	26	22.88	23.15	23.15	0
				1	50	22.83	23.15	22.50	0
				25	0	22.31	22.62	22.69	0.5
				25	14	22.85	23.14	23.08	0
				25	27	22.36	22.67	22.23	0.5
				50	0	22.35	22.65	22.70	0.5
			QPSK	1	1	22.65	23.09	23.18	0
				1	26	22.77	23.23	22.78	0
				1	50	22.91	23.03	22.59	0
				25	0	21.86	22.15	22.26	1
				25	14	22.81	23.17	22.87	0
				25	27	21.88	22.20	21.68	1
				50	0	21.89	22.20	22.17	1
			16QAM	1	1	22.02	22.20	22.10	1
			64QAM	1	1	20.41	20.68	20.80	2.5
			256QAM	1	1	18.17	18.44	18.54	4.5
		CP	QPSK	1	1	21.18	21.46	21.59	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	22.98	23.21	23.30	0
				1	40	23.08	23.35	23.35	0
				1	77	23.03	23.35	22.70	0
				36	0	22.51	22.82	22.89	0.5
				36	22	23.05	23.34	23.28	0
				36	43	22.56	22.87	22.43	0.5
				75	0	22.55	22.85	22.90	0.5
			QPSK	1	1	22.85	23.29	23.38	0
				1	40	22.97	23.43	22.98	0
				1	77	23.11	23.23	22.79	0
				36	0	22.06	22.35	22.46	1
				36	22	23.01	23.37	23.07	0
				36	43	22.08	22.40	21.88	1
				75	0	22.09	22.40	22.37	1
			16QAM	1	1	22.22	22.40	22.30	1
			64QAM	1	1	20.61	20.88	21.00	2.5
			256QAM	1	1	18.37	18.64	18.74	4.5
		CP	QPSK	1	1	21.38	21.66	21.79	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	22.71	23.08	23.23	0
				1	53	22.65	23.06	23.22	0
				1	104	22.74	23.16	23.00	0
				50	0	22.27	22.63	22.80	0.5
				50	28	22.78	23.17	23.11	0
				50	56	22.30	22.66	22.63	0.5
				100	0	22.29	22.65	22.77	0.5
			QPSK	1	1	22.57	23.10	23.18	0
				1	53	22.61	23.07	23.27	0
				1	104	22.68	22.87	22.73	0
				50	0	21.80	22.14	22.35	1
				50	28	22.70	22.80	22.92	0
				50	56	21.81	22.18	22.90	1
				100	0	21.83	22.16	22.26	1
			16QAM	1	1	21.71	21.96	22.48	1
			64QAM	1	1	20.42	20.79	20.93	2.5
			256QAM	1	1	18.10	18.50	18.67	4.5
		CP	QPSK	1	1	21.15	21.52	21.73	1.5

[NR Band n71 Conducted Power]

NR Band n71 _ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						133100	136100	139100	
						665.5 ㎒	680.5 ㎒	695.5 ㎒	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	24.17	24.36	24.88	0
				1	13	24.16	24.38	24.77	0
				1	23	24.24	24.53	24.84	0
				12	0	23.70	23.89	24.38	0.5
				12	7	24.22	24.46	24.86	0
				12	13	23.76	24.00	24.36	0.5
				25	0	23.74	23.98	24.37	0.5
			QPSK	1	1	24.23	24.39	24.94	0
				1	13	24.17	24.42	24.83	0
				1	23	24.27	24.57	24.89	0
				12	0	23.20	23.41	23.87	1
				12	7	24.22	24.47	24.87	0
				12	13	23.28	23.52	23.87	1
				25	0	23.24	23.50	23.88	1
			16QAM	1	1	23.30	23.50	23.96	1
			64QAM	1	1	21.83	21.98	22.47	2.5
			256QAM	1	1	19.56	19.76	20.26	4.5
		CP	QPSK	1	1	22.65	22.84	23.35	1.5

NR Band n71 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						133600	136100	138600	
						668 ㎒	680.5 ㎒	693 ㎒	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	24.13	24.26	24.64	0
				1	26	24.28	24.50	24.91	0
				1	50	24.26	24.60	24.83	0
				25	0	23.70	23.85	24.25	0.5
				25	14	24.24	24.46	24.86	0
				25	27	23.74	24.04	24.36	0.5
				50	0	23.70	23.96	24.37	0.5
			QPSK	1	1	24.19	24.29	24.70	0
				1	26	24.33	24.52	24.92	0
				1	50	24.29	24.61	24.85	0
				25	0	23.22	23.34	23.79	1
				25	14	24.21	24.46	24.87	0
				25	27	23.24	23.53	23.87	1
				50	0	23.22	23.47	23.88	1
			16QAM	1	1	23.35	23.41	23.79	1
			64QAM	1	1	21.75	21.83	22.29	2.5
			256QAM	1	1	19.56	19.66	20.07	4.5
		CP	QPSK	1	1	22.60	22.75	23.16	1.5

NR Band n71 _ 15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							136100		
							680.5 ㎒		
15 MHz	15	DFT-s	pi/2 BPSK	1	1		24.14		0
				1	40		24.39		0
				1	77		24.66		0
				36	0		23.82		0.5
				36	22		24.46		0
				36	43		24.09		0.5
				75	0		23.93		0.5
			QPSK	1	1		24.17		0
				1	40		24.41		0
				1	77		24.67		0
				36	0		23.30		1
				36	22		24.48		0
				36	43		23.59		1
				75	0		23.48		1
			16QAM	1	1		23.15		1
			64QAM	1	1		21.85		2.5
			256QAM	1	1		19.63		4.5
		CP	QPSK	1	1		22.72		1.5

NR Band n71 _ 20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							136100		
							680.5 ㎒		
20 MHz	15	DFT-s	pi/2 BPSK	1	1		24.06		0
				1	53		24.52		0
				1	104		24.76		0
				50	0		23.74		1
				50	28		24.47		0
				50	56		23.96		1
				100	0		23.92		1
			QPSK	1	1		24.14		0
				1	53		24.55		0
				1	104		24.76		0
				50	0		23.27		1
				50	28		24.46		0
				50	56		23.63		1
				100	0		23.45		1
			16QAM	1	1		23.14		1
			64QAM	1	1		21.69		2.5
			256QAM	1	1		19.49		4.5
		CP	QPSK	1	1		22.66		1.5

NR Band n71 at 20 ㎒ 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] – Power Class 3

NR Band n77_ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647000	650600	654200	657800	661400	665000	
						3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz	
10MHz	30	DFT-s	pi/2 BPSK	1	1	24.16	24.07	24.20	24.29	23.87	23.49	0
				1	12	24.25	23.77	24.35	24.09	23.86	23.60	0
				1	22	24.34	23.88	24.44	24.13	23.80	23.58	0
				12	0	23.64	23.58	23.71	23.76	23.32	22.96	0.5
				12	6	24.26	23.80	24.31	24.10	23.82	23.56	0
				12	12	23.79	23.31	23.87	23.62	23.29	23.04	0.5
				24	0	23.77	23.30	23.81	23.61	23.35	23.04	0.5
			QPSK	1	1	24.16	24.07	24.18	24.24	23.89	23.55	0
				1	12	24.27	23.87	24.34	24.15	23.83	23.61	0
				1	22	24.36	23.88	24.44	24.14	23.82	23.62	0
				12	0	23.19	23.09	23.25	23.31	22.82	22.50	1
				12	6	24.31	23.83	24.32	24.13	23.83	23.59	0
				12	12	23.31	22.87	23.38	23.17	22.81	22.59	1
				24	0	23.31	22.82	23.36	23.12	22.84	22.57	1
			16QAM	1	1	23.26	23.09	23.12	23.56	22.95	22.58	1
			64QAM	1	1	21.72	21.66	21.70	21.80	21.39	21.04	2.5
			256QAM	1	1	19.50	19.40	19.49	19.67	19.14	18.81	4.5
		CP	QPSK	1	1	22.63	22.45	22.62	22.65	22.16	21.82	1.5

NR Band n77_ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647168	650700	654232	657766	661300	664832	
						3707.52 MHz	3760.5 MHz	3813.49 MHz	3866.5 MHz	3919.5 MHz	3972.48 MHz	
15MHz	30	DFT-s	pi/2 BPSK	1	1	24.15	24.05	24.15	24.28	23.91	23.67	0
				1	18	24.28	23.78	24.30	24.24	23.81	23.56	0
				1	36	24.40	23.91	24.51	24.17	23.79	23.62	0
				18	0	23.70	23.57	23.69	23.77	23.37	23.11	0.5
				18	9	24.31	23.83	24.32	24.27	23.83	23.60	0
				18	18	23.85	23.36	23.92	23.62	23.29	23.13	0.5
				36	0	23.81	23.33	23.81	23.76	23.33	23.09	0.5
			QPSK	1	1	24.21	24.08	24.16	24.27	23.97	23.64	0
				1	18	24.29	23.79	24.32	24.23	23.78	23.56	0
				1	36	24.46	23.92	24.52	24.16	23.77	23.61	0
				18	0	23.23	23.09	23.22	23.29	22.90	22.64	1
				18	9	24.34	23.84	24.37	24.29	23.83	23.64	0
				18	18	23.34	22.89	23.42	23.13	22.83	22.67	1
				36	0	23.33	22.85	23.34	23.27	22.87	22.62	1
			16QAM	1	1	23.35	23.07	23.04	23.53	22.88	22.83	1
			64QAM	1	1	21.68	21.57	21.61	21.81	21.46	21.19	2.5
			256QAM	1	1	19.52	19.39	19.41	19.69	19.28	18.97	4.5
		CP	QPSK	1	1	22.49	22.48	22.40	22.70	22.33	22.09	1.5

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	
20MHz	30	DFT-s	pi/2 BPSK	1	1	24.21	24.07	24.08	24.27	23.92	23.61	0
				1	26	24.42	23.89	24.34	24.30	23.87	23.63	0
				1	49	24.44	23.99	24.54	24.10	23.75	23.63	0
				25	0	23.80	23.57	23.67	23.74	23.38	23.12	0.5
				25	13	24.39	23.84	24.33	24.26	23.83	23.62	0
				25	26	23.98	23.41	23.94	23.62	23.32	23.06	0.5
				50	0	23.87	23.35	23.84	23.76	23.34	23.13	0.5
			QPSK	1	1	24.21	24.06	24.07	24.22	23.94	23.68	0
				1	26	24.43	23.87	24.33	24.26	23.88	23.69	0
				1	49	24.48	23.96	24.50	24.16	23.72	23.65	0
				25	0	23.38	23.12	23.20	23.32	22.92	22.64	1
				25	13	24.46	23.88	24.38	24.34	23.86	23.64	0
				25	26	23.47	22.91	23.48	23.16	22.85	22.60	1
				50	0	23.41	22.87	23.33	23.31	22.86	22.65	1
			16QAM	1	1	23.28	23.19	23.33	23.30	23.15	22.68	1
			64QAM	1	1	21.67	21.60	21.58	21.86	21.43	21.14	2.5
			256QAM	1	1	19.49	19.38	19.40	19.58	19.32	18.92	4.5
		CP	QPSK	1	1	22.62	22.43	22.38	22.63	22.24	21.95	1.5

NR Band n77_ 25 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647500	650900	654300	657700	661100	664500	
						3712.5 MHz	3763.5 MHz	3814.5 MHz	3865.5 MHz	3916.5 MHz	3967.59 MHz	
25MHz	30	DFT-s	pi/2 BPSK	1	1	24.21	24.12	24.05	24.23	23.87	23.41	0
				1	32	24.45	23.87	24.37	24.25	23.86	23.61	0
				1	63	24.52	24.00	24.58	24.07	23.71	23.59	0
				32	0	23.83	23.59	23.66	23.77	23.39	23.12	0.5
				32	17	24.45	23.90	24.40	24.26	23.86	23.63	0
				32	33	23.95	23.48	24.04	23.62	23.28	23.06	0.5
				64	0	23.93	23.36	23.87	23.76	23.35	23.11	0.5
			QPSK	1	1	24.21	24.11	24.09	24.27	23.93	23.44	0
				1	32	24.48	23.94	24.34	24.34	23.85	23.71	0
				1	63	24.57	23.99	24.59	24.11	23.72	23.63	0
				32	0	23.36	23.12	23.18	23.29	22.91	22.60	1
				32	17	24.49	23.94	24.40	24.29	23.89	23.62	0
				32	33	23.44	22.96	23.55	23.14	22.83	22.56	1
				64	0	23.44	22.90	23.34	23.28	22.87	22.64	1
			16QAM	1	1	23.20	23.04	23.19	23.37	23.03	22.55	1
			64QAM	1	1	21.67	21.53	21.58	21.79	21.46	20.94	2.5
			256QAM	1	1	19.53	19.39	19.43	19.56	19.17	18.76	4.5
		CP	QPSK	1	1	22.52	22.48	22.45	22.70	22.20	21.85	1.5

NR Band n77_30 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	
30MHz	30	DFT-s	pi/2 BPSK	1	1	24.03	23.91	23.89	24.46	23.97	23.46	0
				1	39	24.41	23.81	24.29	24.41	23.93	23.75	0
				1	76	24.49	24.28	24.65	24.10	23.71	23.59	0
				36	0	23.74	23.45	23.51	23.89	23.39	23.21	0.5
				36	21	24.40	23.84	24.26	24.36	23.89	23.77	0
				36	42	23.87	23.45	24.02	23.66	23.28	23.09	0.5
				75	0	23.89	23.31	23.76	23.86	23.37	23.22	0.5
			QPSK	1	1	24.04	23.89	23.92	24.48	23.98	23.48	0
				1	39	24.44	23.88	24.36	24.41	23.87	23.76	0
				1	76	24.51	24.24	24.68	24.13	23.69	23.59	0
				36	0	23.22	22.98	23.02	23.42	22.91	22.73	1
				36	21	24.44	23.87	24.33	24.39	23.94	23.75	0
				36	42	23.43	22.97	23.50	23.17	22.81	22.63	1
				75	0	23.39	22.81	23.27	23.40	22.88	22.71	1
			16QAM	1	1	23.27	22.95	22.97	23.55	23.23	22.56	1
			64QAM	1	1	21.56	21.35	21.42	21.98	21.47	21.01	2.5
			256QAM	1	1	19.31	19.22	19.26	19.73	19.26	18.75	4.5
		CP	QPSK	1	1	22.47	22.29	22.19	22.85	22.36	21.98	1.5

NR Band n77_40 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						648000	651200	654400	657600	660800	664000	
						3720 ㎒	3768 ㎒	3816 ㎒	3864 ㎒	3912 ㎒	3960 ㎒	
40MHz	30	DFT-s	pi/2 BPSK	1	1	24.06	23.88	23.75	24.54	23.97	23.25	0
				1	53	24.50	23.90	24.36	24.41	24.07	23.68	0
				1	104	24.18	24.11	24.62	24.07	23.52	23.59	0
				50	0	23.78	23.46	23.40	23.91	23.61	22.94	0.5
				50	28	24.41	23.87	24.30	24.38	24.03	23.73	0
				50	56	23.93	23.73	24.05	23.63	23.31	23.11	0.5
				100	0	23.89	23.32	23.73	23.84	23.47	23.16	0.5
			QPSK	1	1	24.06	23.83	23.77	24.52	24.01	23.20	0
				1	53	24.49	23.89	24.31	24.43	24.07	23.73	0
				1	104	24.13	24.06	24.61	24.09	23.53	23.57	0
				50	0	23.34	22.98	22.94	23.44	23.14	22.43	1
				50	28	24.47	23.96	24.34	24.41	24.05	23.71	0
				50	56	23.49	23.30	23.59	23.16	22.84	22.69	1
				100	0	23.42	22.87	23.28	23.38	22.99	22.70	1
			16QAM	1	1	23.34	22.95	23.02	23.71	23.21	22.44	1
			64QAM	1	1	21.54	21.43	21.28	22.05	21.48	20.74	2.5
			256QAM	1	1	19.45	19.18	19.15	19.77	19.34	18.59	4.5
		CP	QPSK	1	1	22.38	22.20	22.16	22.95	22.39	21.67	1.5

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	
50MHz	30	DFT-s	pi/2 BPSK	1	1	23.92	23.59	24.11		23.74	23.38	0
				1	67	24.55	24.27	24.86		24.26	23.62	0
				1	131	24.13	23.91	24.62		23.82	23.52	0
				64	0	23.70	23.33	23.95		23.50	22.93	0.5
				64	35	24.50	24.21	24.84		24.22	23.61	0
				64	69	23.74	23.58	24.30		23.54	23.16	0.5
				128	0	23.97	23.68	24.10		23.68	23.03	0.5
			QPSK	1	1	23.95	23.60	24.07		23.82	23.37	0
				1	67	24.58	24.29	24.84		24.29	23.64	0
				1	131	24.13	23.97	24.64		23.84	23.52	0
				64	0	23.26	22.87	23.49		23.02	22.43	1
				64	35	24.53	24.27	24.82		24.27	23.61	0
				64	69	23.27	23.10	23.82		23.06	22.68	1
				128	0	23.49	23.22	23.63		23.22	22.56	1
			16QAM	1	1	23.02	22.51	23.27		22.85	22.46	1
			64QAM	1	1	21.45	21.06	21.61		21.29	20.89	2.5
			256QAM	1	1	19.16	18.88	19.40		19.09	18.67	4.5
		CP	QPSK	1	1	22.32	21.99	22.44		22.16	21.62	1.5

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	
60MHz	30	DFT-s	pi/2 BPSK	1	1	23.96	23.67			24.20	23.51	0
				1	81	24.48	24.04			24.06	23.62	0
				1	160	24.01	24.41			24.11	23.56	0
				81	0	23.81	23.47			23.61	22.87	0.5
				81	41	24.46	24.02			24.02	23.54	0
				81	81	23.67	23.79			23.66	23.20	0.5
				162	0	23.93	23.45			23.47	22.97	0.5
			QPSK	1	1	24.00	23.79			24.23	23.47	0
				1	81	24.50	24.14			24.09	23.59	0
				1	160	24.03	24.47			24.16	23.56	0
				81	0	23.33	22.98			23.14	22.38	1
				81	41	24.51	24.08			24.04	23.55	0
				81	81	23.19	23.32			23.22	22.71	1
				162	0	23.43	22.98			22.95	22.49	1
			16QAM	1	1	23.01	22.77			23.24	22.51	1
			64QAM	1	1	21.45	21.20			21.75	20.94	2.5
			256QAM	1	1	19.28	19.06			19.50	18.83	4.5
		CP	QPSK	1	1	22.32	22.15			22.56	21.88	1.5

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	
70MHz	30	DFT-s	pi/2 BPSK	1	1	23.88	23.71			24.18	23.53	0
				1	95	24.31	24.13			24.04	23.45	0
				1	187	24.00	24.49			24.17	23.72	0
				90	0	23.68	23.46			23.53	22.91	0.5
				90	50	24.26	24.04			24.03	23.43	0
				90	99	23.66	23.87			23.68	23.19	0.5
				180	0	23.72	23.43			23.46	22.80	0.5
			QPSK	1	1	23.82	23.72			24.18	23.54	0
				1	95	24.28	24.11			24.07	23.47	0
				1	187	23.96	24.50			24.14	23.70	0
				90	0	23.21	23.02			23.06	22.43	1
				90	50	24.27	24.05			24.05	23.45	0
				90	99	23.17	23.40			23.19	22.72	1
				180	0	23.24	22.96			22.96	22.34	1
			16QAM	1	1	23.03	22.96			23.43	22.51	1
			64QAM	1	1	21.42	21.20			21.70	21.06	2.5
			256QAM	1	1	19.25	19.02			19.50	18.85	4.5
		CP	QPSK	1	1	22.28	22.03			22.58	21.95	1.5

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		
80MHz	30	DFT-s	pi/2 BPSK	1	1	24.06		23.83		23.91		0
				1	109	24.26		24.85		23.47		0
				1	215	24.34		24.51		23.75		0
				108	0	23.78		23.74		23.09		0.5
				108	55	24.22		24.75		23.42		0
				108	109	23.34		24.22		23.23		0.5
				216	0	23.64		24.10		22.84		0.5
			QPSK	1	1	24.05		23.88		23.90		0
				1	109	24.28		24.68		23.47		0
				1	215	24.36		24.52		23.75		0
				108	0	23.29		23.29		22.65		1
				108	55	24.23		24.53		23.44		0
				108	109	22.89		23.79		22.74		1
				216	0	23.13		23.60		22.36		1
			16QAM	1	1	23.09		22.81		23.17		1
			64QAM	1	1	21.63		21.32		21.49		2.5
			256QAM	1	1	19.39		19.13		19.30		4.5
		CP	QPSK	1	1	22.47		22.16		22.36		1.5

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		
90MHz	30	DFT-s	pi/2 BPSK	1	1	24.09		23.98		24.13		0
				1	123	24.21		24.88		23.63		0
				1	243	24.48		24.77		23.80		0
				120	0	23.69		23.71		23.41		0.5
				120	63	24.16		24.83		23.55		0
				120	125	23.48		24.25		23.20		0.5
				243	0	23.62		24.09		23.04		0.5
			QPSK	1	1	24.09		24.00		24.15		0
				1	123	24.22		24.91		23.63		0
				1	243	24.46		24.77		23.82		0
				120	0	23.22		23.24		22.94		1
				120	63	24.17		24.10		23.58		0
				120	125	23.01		23.75		22.75		1
				243	0	23.11		23.61		22.52		1
			16QAM	1	1	23.37		23.21		23.12		1
			64QAM	1	1	21.62		21.51		21.74		2.5
			256QAM	1	1	19.52		19.35		19.53		4.5
		CP	QPSK	1	1	22.51		22.39		22.51		1.5

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		
100MHz	30	DFT-s	pi/2 BPSK	1	1	24.42		24.26		24.17		0
				1	137	24.22		24.90		23.61		0
				1	271	24.57		24.87		24.16		0
				135	0	23.93		23.67		23.44		0.5
				135	69	24.13		24.98		23.53		0
				135	138	23.57		24.24		23.16		0.5
				270	0	23.62		24.12		23.16		0.5
			QPSK	1	1	24.45		24.27		24.25		0
				1	137	24.25		24.75		23.63		0
				1	271	24.58		24.81		24.23		0
				135	0	23.45		23.20		22.95		1
				135	69	24.16		24.81		23.58		0
				135	138	23.08		23.76		22.67		1
				270	0	23.12		23.61		22.70		1
			16QAM	1	1	23.64		23.34		23.23		1
			64QAM	1	1	22.00		21.90		21.73		2.5
			256QAM	1	1	19.78		19.59		19.53		4.5
		CP	QPSK	1	1	22.53		22.61		22.87		1.5

[NR Band n77 DOD Conducted Power]

Band n77_10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630336	633334	636332	
						3455.04 ㎒	3500.01 ㎒	3544.98 ㎒	
10MHz	30	DFT-s	pi/2 BPSK	1	1	23.68	23.93	24.21	0
				1	12	23.66	23.90	24.39	0
				1	22	23.74	23.93	24.36	0
				12	0	23.23	23.46	23.69	0.5
				12	6	23.66	23.88	24.35	0
				12	12	23.23	23.41	23.85	0.5
				24	0	23.17	23.42	23.86	0.5
			QPSK	1	1	23.68	23.91	24.20	0
				1	12	23.70	23.89	24.35	0
				1	22	23.72	23.92	24.31	0
				12	0	22.76	22.99	23.22	1
				12	6	23.69	23.89	24.37	0
				12	12	22.72	22.93	23.37	1
				24	0	22.69	22.90	23.35	1
			16QAM	1	1	22.72	22.88	23.21	1
			64QAM	1	1	21.22	21.19	21.58	2.5
			256QAM	1	1	19.06	19.29	19.55	4.5
		CP	QPSK	1	1	22.18	22.35	22.63	1.5

Band n77_15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630502	633334	636166	
						3457.53 ㎒	3500.01 ㎒	3542.49 ㎒	
15MHz	30	DFT-s	pi/2 BPSK	1	1	24.88	24.33	24.51	0
				1	18	24.86	24.30	24.69	0
				1	36	24.94	24.33	24.66	0
				18	0	24.43	23.86	23.99	0.5
				18	9	24.86	24.28	24.65	0
				18	18	24.43	23.81	24.15	0.5
				36	0	24.37	23.82	24.16	0.5
			QPSK	1	1	24.88	24.31	24.50	0
				1	18	24.90	24.29	24.65	0
				1	36	24.92	24.32	24.61	0
				18	0	23.96	23.39	23.52	1
				18	9	24.89	24.29	24.67	0
				18	18	23.92	23.33	23.67	1
				36	0	23.89	23.30	23.65	1
			16QAM	1	1	23.92	23.28	23.51	1
			64QAM	1	1	22.42	21.59	21.88	2.5
			256QAM	1	1	20.26	19.69	19.85	4.5
		CP	QPSK	1	1	23.38	22.75	22.93	1.5

Band n77_15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630502	633334	636166	
						3457.53 MHz	3500.01 MHz	3542.49 MHz	
15MHz	30	DFT-s	pi/2 BPSK	1	1	24.88	24.33	24.51	0
				1	18	24.86	24.30	24.69	0
				1	36	24.94	24.33	24.66	0
				18	0	24.43	23.86	23.99	0.5
				18	9	24.86	24.28	24.65	0
				18	18	24.43	23.81	24.15	0.5
				36	0	24.37	23.82	24.16	0.5
			QPSK	1	1	24.88	24.31	24.50	0
				1	18	24.90	24.29	24.65	0
				1	36	24.92	24.32	24.61	0
				18	0	23.96	23.39	23.52	1
				18	9	24.89	24.29	24.67	0
				18	18	23.92	23.33	23.67	1
				36	0	23.89	23.30	23.65	1
			16QAM	1	1	23.92	23.28	23.51	1
			64QAM	1	1	22.42	21.59	21.88	2.5
			256QAM	1	1	20.26	19.69	19.85	4.5
		CP	QPSK	1	1	23.38	22.75	22.93	1.5

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	
20MHz	30	DFT-s	pi/2 BPSK	1	1	23.85	23.79	24.10	0
				1	26	23.89	23.93	24.20	0
				1	49	24.06	24.08	24.24	0
				25	0	23.28	23.44	23.64	0.5
				25	13	23.86	23.94	24.15	0
				25	26	23.47	23.49	23.79	0.5
				50	0	23.34	23.40	23.63	0.5
			QPSK	1	1	23.84	23.85	24.10	0
				1	26	23.88	23.98	24.18	0
				1	49	24.04	24.12	24.28	0
				25	0	22.82	22.95	23.16	1
				25	13	23.89	23.98	24.19	0
				25	26	22.97	23.02	23.31	1
				50	0	22.89	22.93	23.16	1
			16QAM	1	1	22.86	22.98	23.28	1
			64QAM	1	1	21.25	21.31	21.61	2.5
			256QAM	1	1	19.19	19.15	19.39	4.5
		CP	QPSK	1	1	22.27	22.18	22.47	1.5

Band n77_25 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630834	633334	635834	
						3462.51 ㎒	3500.01 ㎒	3537.51 ㎒	
25MHz	30	DFT-s	pi/2 BPSK	1	1	23.87	23.58	24.01	0
				1	32	24.01	23.98	24.13	0
				1	63	24.13	24.11	24.26	0
				32	0	23.36	23.37	23.57	0.5
				32	17	24.03	23.91	24.16	0
				32	33	23.54	23.48	23.76	0.5
				64	0	23.48	23.39	23.66	0.5
			QPSK	1	1	23.88	23.55	24.01	0
				1	32	24.01	23.89	24.14	0
				1	63	24.14	24.07	24.21	0
				32	0	22.86	22.90	23.07	1
				32	17	24.03	23.97	24.18	0
				32	33	23.12	23.00	23.28	1
				64	0	23.00	22.93	23.16	1
			16QAM	1	1	22.92	22.53	23.01	1
			64QAM	1	1	21.38	21.08	21.43	2.5
			256QAM	1	1	19.21	18.94	19.35	4.5
		CP	QPSK	1	1	22.29	22.02	22.38	1.5

Band n77_30 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631000	633334	635666	
						3465 ㎒	3500.01 ㎒	3534.99 ㎒	
30MHz	30	DFT-s	pi/2 BPSK	1	1	23.68	23.51	24.14	0
				1	39	23.90	23.98	24.33	0
				1	76	24.17	24.12	24.34	0
				36	0	23.17	23.32	23.75	0.5
				36	21	23.89	23.95	24.33	0
				36	42	23.52	23.61	23.77	0.5
				75	0	23.35	23.43	23.81	0.5
			QPSK	1	1	23.66	23.49	24.11	0
				1	39	23.93	24.02	24.40	0
				1	76	24.10	24.12	24.35	0
				36	0	22.68	22.86	23.26	1
				36	21	23.93	23.96	24.36	0
				36	42	23.03	23.11	23.28	1
				75	0	22.87	22.91	23.32	1
			16QAM	1	1	22.80	22.58	23.18	1
			64QAM	1	1	21.13	20.99	21.63	2.5
			256QAM	1	1	19.01	18.84	19.48	4.5
		CP	QPSK	1	1	22.07	21.91	22.57	1.5

Band n77_40 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631334		635332	
						3470.01 ㎒		3529.98 ㎒	
40MHz	30	DFT-s	pi/2 BPSK	1	1	23.71		23.85	0
				1	53	24.10		24.24	0
				1	104	24.42		24.27	0
				50	0	23.27		23.53	0.5
				50	28	24.09		24.18	0
				50	56	23.70		23.68	0.5
				100	0	23.51		23.65	0.5
			QPSK	1	1	23.73		23.84	0
				1	53	24.06		24.22	0
				1	104	24.38		24.22	0
				50	0	22.81		23.06	1
				50	28	24.08		24.21	0
				50	56	23.21		23.22	1
				100	0	23.03		23.17	1
			16QAM	1	1	22.94		23.21	1
			64QAM	1	1	21.20		21.30	2.5
			256QAM	1	1	19.02		19.24	4.5
		CP	QPSK	1	1	22.10		22.23	1.5

Band n77_50 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631668		635000	
						3475.02 ㎒		3525 ㎒	
50MHz	30	DFT-s	pi/2 BPSK	1	1	23.58		23.47	0
				1	67	24.12		24.13	0
				1	131	24.56		24.16	0
				64	0	23.27		23.28	0.5
				64	35	24.08		24.08	0
				64	69	23.82		23.58	0.5
				128	0	23.51		23.51	0.5
			QPSK	1	1	23.58		23.51	0
				1	67	24.09		24.09	0
				1	131	24.53		24.14	0
				64	0	22.78		22.83	1
				64	35	24.11		24.11	0
				64	69	23.33		23.12	1
				128	0	23.04		23.03	1
			16QAM	1	1	22.56		22.43	1
			64QAM	1	1	21.08		20.93	2.5
			256QAM	1	1	18.93		18.86	4.5
		CP	QPSK	1	1	22.02		21.90	1.5

Band n77_60 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
60MHz	30	DFT-s	pi/2 BPSK	1	1		23.81		0
				1	81		24.74		0
				1	160		24.98		0
				81	0		23.76		0.5
				81	41		24.74		0
				81	81		24.44		0.5
				162	0		24.20		0.5
			QPSK	1	1		23.83		0
				1	81		24.84		0
				1	160		24.52		0
				81	0		23.28		1
				81	41		24.76		0
				81	81		23.94		1
				162	0		23.69		1
			16QAM	1	1		22.91		1
			64QAM	1	1		21.31		2.5
			256QAM	1	1		19.16		4.5
		CP	QPSK	1	1		22.21		1.5

Band n77_70 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
70MHz	30	DFT-s	pi/2 BPSK	1	1		23.73		0
				1	95		24.81		0
				1	187		24.99		0
				90	0		23.63		0.5
				90	50		24.71		0
				90	99		24.47		0.5
				180	0		24.14		0.5
			QPSK	1	1		23.76		0
				1	95		24.80		0
				1	187		24.73		0
				90	0		23.18		1
				90	50		24.76		0
				90	99		23.52		1
				180	0		23.68		1
			16QAM	1	1		22.82		1
			64QAM	1	1		21.22		2.5
			256QAM	1	1		19.13		4.5
		CP	QPSK	1	1		22.14		1.5

Band n77_80 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
80MHz	30	DFT-s	pi/2 BPSK	1	1		23.69		0
				1	109		24.79		0
				1	215		24.86		0
				108	0		23.56		0.5
				108	55		24.69		0
				108	109		24.11		0.5
				216	0		24.14		0.5
			QPSK	1	1		23.66		0
				1	109		24.79		0
				1	215		24.56		0
				108	0		23.10		1
				108	55		24.75		0
				108	109		23.99		1
				216	0		23.66		1
			16QAM	1	1		22.86		1
			64QAM	1	1		21.14		2.5
			256QAM	1	1		19.02		4.5
		CP	QPSK	1	1		22.06		1.5

Band n77_90 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
90MHz	30	DFT-s	pi/2 BPSK	1	1		23.57		0
				1	123		24.59		0
				1	243		24.75		0
				120	0		23.36		0.5
				120	63		24.55		0
				120	125		24.32		0.5
				243	0		23.96		0.5
			QPSK	1	1		23.59		0
				1	123		24.61		0
				1	243		24.64		0
				120	0		22.93		1
				120	63		24.55		0
				120	125		23.86		1
				243	0		23.46		1
			16QAM	1	1		22.80		1
			64QAM	1	1		21.09		2.5
			256QAM	1	1		18.93		4.5
		CP	QPSK	1	1		22.01		1.5

Band n77_100 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 MHz		
100MHz	30	DFT-s	pi/2 BPSK	1	1		24.05		0
				1	137		24.82		0
				1	271		24.51		0
				135	0		23.57		0.5
				135	69		24.72		0
				135	138		24.05		0.5
				270	0		24.19		0.5
			QPSK	1	1		24.06		0
				1	137		24.51		0
				1	271		24.80		0
				135	0		23.09		1
				135	69		24.74		0
				135	138		23.59		1
				270	0		23.71		1
			16QAM	1	1		23.28		1
			64QAM	1	1		21.55		2.5
			256QAM	1	1		19.08		4.5
		CP	QPSK	1	1		22.48		1.5

[NR Band n77 Conducted Power] – Power Class 2

NR Band n77_ 10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647000	650600	654200	657800	661400	665000	
						3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz	
10MHz	30	DFT-s	pi/2 BPSK	1	1	25.42	25.25	25.27	25.88	25.34	24.95	0
				1	12	25.65	25.06	25.51	25.79	25.41	25.00	0
				1	22	25.72	25.11	25.61	25.76	25.42	25.03	0
				12	0	25.04	24.83	24.90	25.47	24.91	24.51	0.5
				12	6	25.62	25.14	25.57	25.80	25.43	25.14	0
				12	12	25.16	24.67	25.14	25.34	24.95	24.63	0.5
				24	0	25.12	24.60	25.07	25.33	24.96	24.67	0.5
			QPSK	1	1	25.52	25.41	25.45	26.02	25.52	25.14	0
				1	12	25.65	25.16	25.64	25.86	25.54	25.21	0
				1	22	25.70	25.16	25.72	25.85	25.44	25.22	0
				12	0	24.57	24.45	24.51	24.98	24.48	24.15	1
				12	6	25.66	25.20	25.63	25.82	25.50	25.22	0
				12	12	24.70	24.23	24.68	24.85	24.48	24.22	1
				24	0	24.65	24.18	24.60	24.83	24.49	24.21	1
			16QAM	1	1	24.47	24.48	24.59	24.96	24.50	24.09	1
			64QAM	1	1	22.98	22.84	22.83	23.55	22.98	22.55	2.5
			256QAM	1	1	20.88	20.76	20.99	21.38	21.01	20.61	4.5
		CP	QPSK	1	1	23.78	23.91	23.88	24.38	23.91	23.60	1.5

NR Band n77_ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647168	650700	654232	657766	661300	664832	
						3707.52 MHz	3760.5 MHz	3813.49 MHz	3866.5 MHz	3919.5 MHz	3972.48 MHz	
15MHz	30	DFT-s	pi/2 BPSK	1	1	25.47	25.33	25.32	25.76	25.36	25.14	0
				1	18	25.60	25.08	25.59	25.69	25.23	25.10	0
				1	36	25.74	25.25	25.77	25.68	25.36	25.16	0
				18	0	25.06	24.92	24.99	25.31	24.90	24.65	0.5
				18	9	25.69	25.20	25.61	25.80	25.36	25.16	0
				18	18	25.26	24.71	25.22	25.19	24.86	24.67	0.5
				36	0	25.20	24.69	25.14	25.32	24.89	24.64	0.5
			QPSK	1	1	25.53	25.43	25.44	25.84	25.53	25.20	0
				1	18	25.65	25.19	25.61	25.80	25.35	25.13	0
				1	36	25.77	25.27	25.78	25.67	25.37	25.16	0
				18	0	24.60	24.49	24.50	24.87	24.48	24.22	1
				18	9	25.72	25.26	25.65	25.88	25.45	25.19	0
				18	18	24.76	24.27	24.73	24.73	24.43	24.24	1
				36	0	24.72	24.22	24.63	24.86	24.42	24.18	1
			16QAM	1	1	24.43	24.50	24.48	24.92	24.36	24.22	1
			64QAM	1	1	23.08	22.98	22.89	23.39	22.96	22.68	2.5
			256QAM	1	1	20.89	20.99	20.81	21.16	20.99	20.65	4.5
		CP	QPSK	1	1	23.92	23.87	23.77	24.20	23.90	23.65	1.5

NR Band n77_ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647334	650800	654266	657734	661200	664666	
						3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz	
20MHz	30	DFT-s	pi/2 BPSK	1	1	25.53	24.98	25.20	25.61	25.36	25.31	0
				1	26	25.76	25.12	25.52	25.68	25.34	25.33	0
				1	49	25.78	25.20	25.71	25.59	25.25	25.33	0
				25	0	25.23	24.89	24.86	25.29	24.94	24.86	0.5
				25	13	25.80	25.19	25.54	25.79	25.40	25.37	0
				25	26	25.34	24.76	25.19	25.13	24.87	24.85	0.5
				50	0	25.28	24.71	25.07	25.31	24.90	24.87	0.5
			QPSK	1	1	25.61	25.44	25.32	25.82	25.53	25.41	0
				1	26	25.82	25.26	25.61	25.84	25.46	25.39	0
				1	49	25.83	25.34	25.77	25.67	25.34	25.40	0
				25	0	24.73	24.44	24.44	24.88	24.51	24.44	1
				25	13	25.84	25.27	25.62	25.85	25.47	25.43	0
				25	26	24.88	24.32	24.73	24.72	24.40	24.37	1
				50	0	24.79	24.21	24.58	24.86	24.45	24.42	1
			16QAM	1	1	24.71	24.51	24.39	24.72	24.45	24.42	1
			64QAM	1	1	23.20	22.97	22.82	23.15	22.99	22.93	2.5
			256QAM	1	1	21.09	20.93	20.74	21.28	20.84	20.91	4.5
		CP	QPSK	1	1	23.99	23.81	23.72	24.21	23.93	23.80	1.5

NR Band n77_ 25 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647500	650900	654300	657700	661100	664500	
						3712.5 MHz	3763.5 MHz	3814.5 MHz	3865.5 MHz	3916.5 MHz	3967.5 MHz	
25MHz	30	DFT-s	pi/2 BPSK	1	1	25.47	25.34	25.40	25.91	25.46	24.92	0
				1	32	25.80	25.15	25.78	25.97	25.53	25.20	0
				1	63	25.91	25.35	25.93	25.80	25.30	25.19	0
				32	0	25.16	24.90	24.98	25.48	24.94	24.62	0.5
				32	17	25.79	25.25	25.72	26.01	25.44	25.19	0
				32	33	25.30	24.80	25.36	25.36	24.87	24.64	0.5
				64	0	25.28	24.77	25.19	25.49	24.95	24.73	0.5
			QPSK	1	1	25.53	25.44	25.44	25.98	25.44	24.99	0
				1	32	25.79	25.31	25.77	26.06	25.45	25.27	0
				1	63	25.92	25.37	25.95	25.84	25.31	25.19	0
				32	0	24.74	24.48	24.48	24.99	24.50	24.24	1
				32	17	25.82	25.32	25.74	26.03	25.51	25.28	0
				32	33	24.83	24.33	24.85	24.87	24.44	24.20	1
				64	0	24.83	24.26	24.70	25.01	24.48	24.25	1
			16QAM	1	1	24.69	24.56	24.44	24.86	24.64	24.06	1
			64QAM	1	1	23.08	23.03	22.97	23.51	22.82	22.51	2.5
			256QAM	1	1	21.01	21.07	20.84	21.11	20.90	20.48	4.5
		CP	QPSK	1	1	23.90	23.74	23.76	24.21	23.91	23.55	1.5

NR Band n77_ 30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647666	651000	654334	657666	661000	664334	
						3714.99 MHz	3765 MHz	3815.01 MHz	3864.99 MHz	3915 MHz	3965.01 MHz	
30MHz	30	DFT-s	pi/2 BPSK	1	1	25.15	25.02	24.91	25.87	25.46	25.02	0
				1	39	25.53	25.00	25.33	25.87	25.66	25.14	0
				1	76	25.60	25.37	25.68	25.62	25.29	25.02	0
				36	0	24.85	24.59	24.55	25.39	24.96	24.67	0.5
				36	21	25.52	25.02	25.33	25.91	25.51	25.18	0
				36	42	25.05	24.63	25.10	25.19	24.85	24.58	0.5
				75	0	25.02	24.48	24.83	25.37	24.96	24.70	0.5
			QPSK	1	1	25.18	25.09	24.93	25.96	25.57	24.98	0
				1	39	25.59	25.10	25.45	25.97	25.56	25.34	0
				1	76	25.62	25.45	25.77	25.67	25.30	25.11	0
				36	0	24.39	24.16	24.10	24.96	24.54	24.30	1
				36	21	25.57	25.07	25.46	25.98	25.54	25.32	0
				36	42	24.55	24.17	24.67	24.74	24.44	24.15	1
				75	0	24.54	24.01	24.40	24.95	24.55	24.31	1
			16QAM	1	1	24.40	24.28	24.15	25.07	24.69	24.03	1
			64QAM	1	1	22.60	22.53	22.49	23.51	23.14	22.46	2.5
			256QAM	1	1	20.73	20.54	20.48	21.45	20.96	20.52	4.5
		CP	QPSK	1	1	23.56	23.48	23.43	24.39	23.95	23.48	1.5

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	
40MHz	30	DFT-s	pi/2 BPSK	1	1	25.14	24.98	25.10	26.19	25.68	24.95	0
				1	53	25.64	25.17	25.74	26.13	25.81	25.36	0
				1	104	25.32	25.25	26.10	25.77	25.27	25.21	0
				50	0	24.99	24.61	24.87	25.62	25.41	24.62	0.5
				50	28	25.61	25.04	25.75	26.11	25.84	25.43	0
				50	56	25.15	24.94	25.52	25.37	25.10	24.83	0.5
				100	0	25.07	24.52	25.18	25.58	25.26	24.90	0.5
			QPSK	1	1	25.29	25.04	25.25	26.19	25.82	25.01	0
				1	53	25.66	25.20	25.84	26.15	25.92	25.51	0
				1	104	25.36	25.35	26.08	25.82	25.31	25.30	0
				50	0	24.50	24.17	24.38	25.16	24.96	24.22	1
				50	28	25.64	25.14	25.80	26.12	25.90	25.50	0
				50	56	24.69	24.46	25.04	24.92	24.67	24.42	1
				100	0	24.59	24.06	24.69	25.12	24.83	24.48	1
			16QAM	1	1	24.13	24.19	24.37	25.32	24.53	24.21	1
			64QAM	1	1	22.40	22.84	22.74	23.75	23.29	22.57	2.5
			256QAM	1	1	20.68	20.52	20.48	21.75	21.22	20.44	4.5
		CP	QPSK	1	1	23.68	23.56	23.58	24.59	24.21	23.47	1.5

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	
50MHz	30	DFT-s	pi/2 BPSK	1	1	25.23	24.92	25.36		25.40	25.05	0
				1	67	25.85	25.57	26.37		25.96	25.45	0
				1	131	25.47	25.33	26.00		25.49	25.11	0
				64	0	25.04	24.64	25.28		25.23	24.61	0.5
				64	35	25.82	25.57	26.36		26.00	25.22	0
				64	69	25.07	24.93	25.66		25.32	24.82	0.5
				128	0	25.29	25.02	25.45		25.45	24.72	0.5
			QPSK	1	1	25.29	24.91	25.40		25.52	25.10	0
				1	67	25.90	25.62	26.38		25.97	25.34	0
				1	131	25.50	25.36	25.99		25.54	25.19	0
				64	0	24.58	24.18	24.81		24.80	24.15	1
				64	35	25.85	25.60	26.26		26.05	25.33	0
				64	69	24.61	24.47	25.19		24.83	24.40	1
				128	0	24.81	24.54	24.97		24.99	24.29	1
			16QAM	1	1	24.30	23.93	24.40		24.56	24.17	1
			64QAM	1	1	22.84	22.53	22.58		22.71	22.50	2.5
			256QAM	1	1	20.96	20.70	20.58		21.09	20.67	4.5
		CP	QPSK	1	1	23.52	23.49	23.93		23.95	23.47	1.5

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	
60MHz	30	DFT-s	pi/2 BPSK	1	1	25.20	24.75			25.75	25.16	0
				1	81	25.76	25.19			25.70	25.30	0
				1	160	25.29	25.57			25.76	25.27	0
				81	0	25.10	24.62			25.24	24.59	0.5
				81	41	25.78	25.19			25.66	25.23	0
				81	81	24.98	24.98			25.33	24.84	0.5
				162	0	25.23	24.62			25.11	24.64	0.5
			QPSK	1	1	25.36	24.90			25.83	25.17	0
				1	81	25.93	25.34			25.79	25.28	0
				1	160	25.35	25.62			25.86	25.30	0
				81	0	24.68	24.18			24.79	24.09	1
				81	41	25.83	25.29			25.74	25.24	0
				81	81	24.53	24.56			24.90	24.41	1
				162	0	24.77	24.20			24.65	24.21	1
			16QAM	1	1	24.20	24.07			25.06	24.16	1
			64QAM	1	1	22.52	22.21			23.55	22.37	2.5
			256QAM	1	1	20.33	20.34			21.75	20.75	4.5
		CP	QPSK	1	1	23.44	23.27			24.09	23.58	1.5

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	
70MHz	30	DFT-s	pi/2 BPSK	1	1	25.04	24.80			25.74	25.11	0
				1	95	25.49	25.19			25.65	25.07	0
				1	187	25.22	25.72			25.80	25.31	0
				90	0	24.93	24.69			25.14	24.61	0.5
				90	50	25.52	25.29			25.61	25.13	0
				90	99	24.91	25.18			25.33	24.93	0.5
				180	0	24.99	24.76			25.09	24.53	0.5
			QPSK	1	1	25.15	24.99			25.82	25.24	0
				1	95	25.57	25.39			25.70	25.17	0
				1	187	25.28	25.88			25.80	25.40	0
				90	0	24.49	24.32			24.77	24.14	1
				90	50	25.55	25.39			25.72	25.17	0
				90	99	24.45	24.74			24.92	24.46	1
				180	0	24.56	24.29			24.66	24.06	1
			16QAM	1	1	24.11	24.16			25.01	24.51	1
			64QAM	1	1	22.69	22.33			23.42	22.73	2.5
			256QAM	1	1	20.71	20.56			21.35	20.51	4.5
		CP	QPSK	1	1	23.57	23.43			24.30	23.53	1.5

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		
80MHz	30	DFT-s	pi/2 BPSK	1	1	25.16		24.94		25.56		0
				1	109	25.39		26.24		25.12		0
				1	215	25.58		25.80		25.35		0
				108	0	25.01		25.04		24.80		0.5
				108	55	25.46		26.29		25.13		0
				108	109	24.58		25.52		24.94		0.5
				216	0	24.88		25.38		24.55		0.5
			QPSK	1	1	25.37		25.13		25.66		0
				1	109	25.54		26.38		25.20		0
				1	215	25.66		25.92		25.44		0
				108	0	24.56		24.57		24.36		1
				108	55	25.52		26.34		25.16		0
				108	109	24.16		25.05		24.47		1
				216	0	24.45		24.87		24.11		1
			16QAM	1	1	24.32		24.15		24.73		1
			64QAM	1	1	22.90		22.42		23.14		2.5
			256QAM	1	1	20.76		20.50		21.16		4.5
		CP	QPSK	1	1	23.75		23.49		24.01		1.5

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		
90MHz	30	DFT-s	pi/2 BPSK	1	1	25.64		25.07		25.74		0
				1	123	25.76		26.24		25.24		0
				1	243	26.11		26.00		25.48		0
				120	0	25.37		24.96		25.08		0.5
				120	63	25.81		26.28		25.25		0
				120	125	25.16		25.55		24.91		0.5
				243	0	25.33		25.39		24.75		0.5
			QPSK	1	1	25.78		25.20		25.84		0
				1	123	25.90		26.36		25.34		0
				1	243	26.27		26.11		25.52		0
				120	0	24.91		24.53		24.68		1
				120	63	25.85		26.30		25.30		0
				120	125	24.73		25.11		24.43		1
				243	0	24.86		24.92		24.25		1
			16QAM	1	1	24.90		24.25		24.86		1
			64QAM	1	1	23.30		23.02		23.56		2.5
			256QAM	1	1	21.23		20.73		21.10		4.5
		CP	QPSK	1	1	24.24		23.68		24.21		1.5

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		
100MHz	30	DFT-s	pi/2 BPSK	1	1	25.61		25.15		25.55		0
				1	137	25.45		26.06		25.04		0
				1	271	25.83		26.22		25.59		0
				135	0	25.22		24.77		24.99		0.5
				135	69	25.45		26.17		25.14		0
				135	138	24.87		25.46		24.74		0.5
				270	0	24.92		25.33		24.80		0.5
			QPSK	1	1	25.71		25.47		25.79		0
				1	137	25.51		26.30		25.24		0
				1	271	25.95		26.39		25.82		0
				135	0	24.76		24.41		24.61		1
				135	69	25.49		26.26		25.20		0
				135	138	24.38		25.05		24.33		1
				270	0	24.47		24.89		24.33		1
			16QAM	1	1	24.79		24.50		25.06		1
			64QAM	1	1	23.34		22.89		23.43		2.5
			256QAM	1	1	21.16		20.75		21.42		4.5
		CP	QPSK	1	1	24.14		23.73		24.42		1.5

[NR Band n77 DOD PC2 SA Conducted Power]

Band n77_10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630336	633334	636332	
						3455.04 ㎒	3500.01 ㎒	3544.98 ㎒	
10MHz	30	DFT-s	pi/2 BPSK	1	1	25.31	25.76	25.73	0
				1	12	25.34	25.80	25.91	0
				1	22	25.40	25.81	25.91	0
				12	0	24.97	25.41	25.35	0.5
				12	6	25.40	25.87	26.00	0
				12	12	24.91	25.38	25.48	0.5
				24	0	24.87	25.36	25.46	0.5
			QPSK	1	1	25.49	25.91	25.87	0
				1	12	25.51	25.91	26.03	0
				1	22	25.48	25.93	25.99	0
				12	0	24.51	24.98	24.86	1
				12	6	25.41	25.92	26.02	0
				12	12	24.45	24.92	25.01	1
				24	0	24.44	24.88	25.00	1
			16QAM	1	1	24.45	24.95	24.99	1
			64QAM	1	1	22.96	23.42	23.27	2.5
			256QAM	1	1	20.81	21.55	21.36	4.5
		CP	QPSK	1	1	23.89	24.37	24.12	1.5

Band n77_15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630502	633334	636166	
						3457.53 ㎒	3500.01 ㎒	3542.49 ㎒	
15MHz	30	DFT-s	pi/2 BPSK	1	1	25.40	25.73	25.86	0
				1	18	25.33	25.73	25.84	0
				1	36	25.46	25.91	25.98	0
				18	0	24.78	25.38	25.32	0.5
				18	9	25.38	25.82	25.84	0
				18	18	24.89	25.41	25.50	0.5
				36	0	24.87	25.37	25.34	0.5
			QPSK	1	1	25.41	25.82	25.83	0
				1	18	25.38	25.80	25.80	0
				1	36	25.58	25.93	25.96	0
				18	0	24.37	24.94	24.84	1
				18	9	25.42	25.92	25.84	0
				18	18	24.47	24.92	24.98	1
				36	0	24.42	24.87	24.86	1
			16QAM	1	1	24.43	24.98	24.86	1
			64QAM	1	1	22.73	23.24	23.24	2.5
			256QAM	1	1	20.87	21.22	21.23	4.5
		CP	QPSK	1	1	23.86	24.22	24.19	1.5

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	
20MHz	30	DFT-s	pi/2 BPSK	1	1	25.36	25.66	25.73	0
				1	26	25.41	25.82	25.77	0
				1	49	25.60	25.99	25.88	0
				25	0	24.87	25.30	25.34	0.5
				25	13	25.49	25.82	25.82	0
				25	26	25.07	25.36	25.45	0.5
				50	0	24.96	25.34	25.34	0.5
			QPSK	1	1	25.44	25.72	25.79	0
				1	26	25.47	25.85	25.87	0
				1	49	25.64	26.02	25.99	0
				25	0	24.45	24.87	24.88	1
				25	13	25.48	25.88	25.87	0
				25	26	24.61	24.92	24.99	1
				50	0	24.50	24.88	24.85	1
			16QAM	1	1	24.60	24.75	24.75	1
			64QAM	1	1	22.85	23.31	23.30	2.5
			256QAM	1	1	20.97	21.14	21.13	4.5
		CP	QPSK	1	1	23.92	24.20	24.20	1.5

Band n77_25 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630834	633334	635834	
						3462.51 MHz	3500.01 MHz	3537.51 MHz	
25MHz	30	DFT-s	pi/2 BPSK	1	1	25.40	25.30	25.56	0
				1	32	25.68	25.75	25.78	0
				1	63	25.67	25.87	25.89	0
				32	0	24.98	25.23	25.23	0.5
				32	17	25.62	25.80	25.80	0
				32	33	25.17	25.35	25.41	0.5
				64	0	25.13	25.31	25.28	0.5
			QPSK	1	1	25.52	25.52	25.70	0
				1	32	25.72	25.84	25.82	0
				1	63	25.77	25.98	25.88	0
				32	0	24.49	24.83	24.78	1
				32	17	25.67	25.88	25.82	0
				32	33	24.72	24.91	24.94	1
				64	0	24.63	24.86	24.84	1
			16QAM	1	1	24.43	24.59	24.77	1
			64QAM	1	1	22.97	23.10	23.19	2.5
			256QAM	1	1	20.92	20.99	20.99	4.5
		CP	QPSK	1	1	23.92	23.92	24.14	1.5

Band n77_30 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631000	633334	635666	
						3465 ㎒	3500.01 ㎒	3534.99 ㎒	
30MHz	30	DFT-s	pi/2 BPSK	1	1	25.20	25.47	25.65	0
				1	39	25.42	25.89	25.89	0
				1	76	25.60	26.04	25.92	0
				36	0	24.77	25.33	25.35	0.5
				36	21	25.50	25.93	25.95	0
				36	42	25.08	25.57	25.40	0.5
				75	0	24.96	25.42	25.42	0.5
			QPSK	1	1	25.31	25.50	25.75	0
				1	39	25.58	25.98	26.01	0
				1	76	25.72	26.07	25.98	0
				36	0	24.31	24.83	24.92	1
				36	21	25.52	25.94	26.02	0
				36	42	24.61	25.08	24.93	1
				75	0	24.48	24.92	24.99	1
			16QAM	1	1	24.47	24.62	24.85	1
			64QAM	1	1	22.69	23.02	23.36	2.5
			256QAM	1	1	20.67	21.05	21.27	4.5
		CP	QPSK	1	1	23.71	23.91	24.21	1.5

Band n77_40 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631334		635332	
						3470.01 ㎒		3529.98 ㎒	
40MHz	30	DFT-s	pi/2 BPSK	1	1	25.23		25.27	0
				1	53	25.67		25.65	0
				1	104	25.89		25.69	0
				50	0	24.87		25.13	0.5
				50	28	25.64		25.80	0
				50	56	25.24		25.30	0.5
				100	0	25.08		25.26	0.5
			QPSK	1	1	25.40		25.54	0
				1	53	25.79		25.93	0
				1	104	25.95		25.87	0
				50	0	24.41		24.76	1
				50	28	25.70		25.90	0
				50	56	24.77		24.83	1
				100	0	24.61		24.82	1
			16QAM	1	1	24.19		24.47	1
			64QAM	1	1	22.64		22.79	2.5
			256QAM	1	1	20.91		21.11	4.5
		CP	QPSK	1	1	23.76		24.03	1.5

Band n77_50 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631668		635000	
						3475.02 ㎒		3525 ㎒	
50MHz	30	DFT-s	pi/2 BPSK	1	1	25.10		25.01	0
				1	67	25.58		25.61	0
				1	131	26.00		25.66	0
				64	0	24.85		24.98	0.5
				64	35	25.63		25.70	0
				64	69	25.36		25.23	0.5
				128	0	25.05		25.15	0.5
			QPSK	1	1	25.19		25.26	0
				1	67	25.64		25.71	0
				1	131	26.08		25.80	0
				64	0	24.37		24.53	1
				64	35	25.66		25.79	0
				64	69	24.90		24.78	1
				128	0	24.56		24.71	1
			16QAM	1	1	24.24		24.10	1
			64QAM	1	1	22.72		22.68	2.5
			256QAM	1	1	20.45		20.68	4.5
		CP	QPSK	1	1	23.57		23.55	1.5

Band n77_60 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
60MHz	30	DFT-s	pi/2 BPSK	1	1		24.80		0
				1	81		25.72		0
				1	160		25.86		0
				81	0		24.82		0.5
				81	41		25.77		0
				81	81		25.44		0.5
				162	0		25.25		0.5
			QPSK	1	1		25.01		0
				1	81		25.90		0
				1	160		25.99		0
				81	0		24.38		1
				81	41		25.87		0
				81	81		25.01		1
				162	0		24.78		1
			16QAM	1	1		23.85		1
			64QAM	1	1		22.35		2.5
			256QAM	1	1		20.43		4.5
		CP	QPSK	1	1		23.33		1.5

Band n77_70 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
70MHz	30	DFT-s	pi/2 BPSK	1	1		24.92		0
				1	95		25.88		0
				1	187		26.10		0
				90	0		24.75		0.5
				90	50		25.89		0
				90	99		25.60		0.5
				180	0		25.30		0.5
			QPSK	1	1		24.97		0
				1	95		25.91		0
				1	187		26.09		0
				90	0		24.36		1
				90	50		25.91		0
				90	99		25.14		1
				180	0		24.83		1
			16QAM	1	1		23.95		1
			64QAM	1	1		22.49		2.5
			256QAM	1	1		20.43		4.5
		CP	QPSK	1	1		23.41		1.5

Band n77_80 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
80MHz	30	DFT-s	pi/2 BPSK	1	1		24.71		0
				1	109		25.75		0
				1	215		25.99		0
				108	0		24.64		0.5
				108	55		25.77		0
				108	109		25.53		0.5
				216	0		25.20		0.5
			QPSK	1	1		24.83		0
				1	109		25.88		0
				1	215		26.09		0
				108	0		24.20		1
				108	55		25.83		0
				108	109		25.07		1
				216	0		24.75		1
			16QAM	1	1		23.85		1
			64QAM	1	1		22.62		2.5
			256QAM	1	1		20.47		4.5
		CP	QPSK	1	1		23.32		1.5

Band n77_90 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
90MHz	30	DFT-s	pi/2 BPSK	1	1		24.89		0
				1	123		25.86		0
				1	243		26.29		0
				120	0		24.68		0.5
				120	63		25.80		0
				120	125		25.54		0.5
				243	0		25.23		0.5
			QPSK	1	1		24.90		0
				1	123		25.86		0
				1	243		26.36		0
				120	0		24.23		1
				120	63		25.83		0
				120	125		25.08		1
				243	0		24.77		1
			16QAM	1	1		23.88		1
			64QAM	1	1		22.55		2.5
			256QAM	1	1		20.46		4.5
		CP	QPSK	1	1		23.28		1.5

Band n77_100 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
100MHz	30	DFT-s	pi/2 BPSK	1	1		25.12		0
				1	137		25.80		0
				1	271		26.26		0
				135	0		24.63		0.5
				135	69		25.76		0
				135	138		25.57		0.5
				270	0		25.24		0.5
			QPSK	1	1		25.25		0
				1	137		25.85		0
				1	271		25.76		0
				135	0		24.23		1
				135	69		25.82		0
				135	138		25.12		1
				270	0		24.80		1
			16QAM	1	1		24.22		1
			64QAM	1	1		22.98		2.5
			256QAM	1	1		20.72		4.5
		CP	QPSK	1	1		23.61		1.5

Power Measurement Setup

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	19.92	20.02	20.24	0
				1	13	19.88	19.97	20.22	0
				1	23	20.04	19.99	20.30	0
				12	0	19.96	20.02	20.29	0
				12	7	19.97	20.03	20.30	0
				12	13	20.01	20.03	20.31	0
				25	0	19.99	20.04	20.31	0
			QPSK	1	1	20.00	20.04	20.31	0
				1	13	19.96	19.96	20.30	0
				1	23	20.10	20.05	20.36	0
				12	0	19.95	20.09	20.31	0
				12	7	20.00	20.05	20.33	0
				12	13	20.01	20.03	20.34	0
				25	0	19.99	20.05	20.35	0
			16QAM	1	1	19.95	20.04	20.29	0
			64QAM	1	1	20.08	20.18	20.45	0
			256QAM	1	1	18.29	18.47	**18.65**	1
		CP	QPSK	1	1	19.94	20.08	20.33	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	19.88	19.97	20.22	0
				1	26	20.05	20.07	20.34	0
				1	50	20.12	19.98	20.32	0
				25	0	19.95	20.04	20.26	0
				25	14	20.01	20.04	20.30	0
				25	27	20.09	20.04	20.36	0
				50	0	20.02	20.04	20.30	0
			QPSK	1	1	19.90	20.03	20.28	0
				1	26	20.03	20.10	20.35	0
				1	50	20.17	20.02	20.40	0
				25	0	19.96	20.06	20.30	0
				25	14	20.03	20.04	20.35	0
				25	27	20.11	20.04	20.37	0
				50	0	20.02	20.05	20.33	0
			16QAM	1	1	19.95	20.13	20.22	0
			64QAM	1	1	20.11	20.18	20.43	0
			256QAM	1	1	18.31	18.42	18.57	1
		CP	QPSK	1	1	20.04	20.10	20.35	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	19.82	19.99	20.10	0
				1	40	20.00	20.00	20.22	0
				1	77	20.19	19.98	20.29	0
				36	0	19.94	20.00	20.26	0
				36	22	20.09	20.06	20.27	0
				36	43	20.21	20.03	20.31	0
				75	0	20.09	20.04	20.24	0
			QPSK	1	1	19.89	20.01	20.18	0
				1	40	20.06	20.04	20.17	0
				1	77	20.21	20.00	20.30	0
				36	0	20.00	20.03	20.27	0
				36	22	20.10	20.07	20.29	0
				36	43	20.22	20.03	20.32	0
				75	0	20.10	20.06	20.30	0
			16QAM	1	1	19.71	19.95	20.18	0
			64QAM	1	1	19.99	20.11	20.36	0
			256QAM	1	1	18.25	18.35	18.55	1
		CP	QPSK	1	1	19.89	20.04	20.21	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	19.78	19.90	20.07	0
				1	53	20.17	20.09	20.28	0
				1	104	20.27	19.88	20.24	0
				50	0	19.99	20.02	20.20	0
				50	28	20.15	20.07	20.27	0
				50	56	20.27	20.01	20.29	0
				100	0	20.11	20.07	20.24	0
			QPSK	1	1	19.83	19.96	20.13	0
				1	53	20.19	20.18	20.31	0
				1	104	20.28	19.93	20.26	0
				50	0	20.00	20.04	20.23	0
				50	28	20.19	20.09	20.33	0
				50	56	20.30	20.05	20.31	0
				100	0	20.14	20.06	20.30	0
			16QAM	1	1	19.73	20.14	20.19	0
			64QAM	1	1	19.92	20.02	20.29	0
			256QAM	1	1	18.18	18.27	18.51	1
		CP	QPSK	1	1	19.79	19.96	20.15	0

[NR Band n25 Conducted Power]

NR Band n25 _ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						370500	376500	382500	
						1852.5 ㎒	1882.5 ㎒	1912.5 ㎒	
5 MHz	15	DFT-s	pi/2 BPSK	1	1	19.85	19.93	20.09	0
				1	13	19.81	20.05	19.93	0
				1	23	19.88	20.02	20.01	0
				12	0	19.92	20.08	19.96	0
				12	7	19.95	19.94	19.98	0
				12	13	19.91	19.92	19.97	0
				25	0	19.93	20.07	20.07	0
			QPSK	1	1	19.82	20.06	19.91	0
				1	13	19.97	20.10	19.99	0
				1	23	19.96	19.97	20.09	0
				12	0	19.88	20.08	20.10	0
				12	7	20.00	19.93	20.00	0
				12	13	19.84	20.10	20.04	0
				25	0	19.83	20.04	20.09	0
			16QAM	1	1	19.80	19.98	19.94	0
			64QAM	1	1	19.83	20.08	20.10	0
			256QAM	1	1	18.84	18.91	18.96	1
		CP	QPSK	1	1	20.00	19.95	20.03	0

NR Band n25 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						371000	376500	382000	
						1855 ㎒	1882.5 ㎒	1910 ㎒	
10 MHz	15	DFT-s	pi/2 BPSK	1	1	19.93	20.04	20.19	0
				1	26	19.92	20.03	20.03	0
				1	50	19.88	19.90	20.11	0
				25	0	19.86	19.87	20.06	0
				25	14	19.88	19.93	20.08	0
				25	27	19.85	19.86	20.07	0
				50	0	19.95	19.99	20.17	0
			QPSK	1	1	19.81	20.02	20.01	0
				1	26	19.93	20.02	20.09	0
				1	50	19.75	19.88	20.19	0
				25	0	19.84	19.85	20.20	0
				25	14	19.89	20.00	20.10	0
				25	27	19.95	19.88	20.14	0
				50	0	19.93	20.05	20.19	0
			16QAM	1	1	19.95	19.89	20.04	0
			64QAM	1	1	19.87	19.95	20.20	0
			256QAM	1	1	18.95	19.03	19.06	1
		CP	QPSK	1	1	19.85	19.94	20.13	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	19.82	19.94	20.29	0
				1	40	19.84	19.88	20.13	0
				1	77	19.77	20.03	20.21	0
				36	0	19.77	19.91	20.16	0
				36	22	19.91	20.00	20.18	0
				36	43	19.84	20.05	20.17	0
				75	0	19.78	20.01	20.27	0
			QPSK	1	1	19.89	19.91	20.11	0
				1	40	19.81	19.86	20.19	0
				1	77	19.93	19.87	20.29	0
				36	0	19.94	19.86	20.30	0
				36	22	19.89	19.86	20.20	0
				36	43	19.91	20.00	20.24	0
				75	0	19.80	20.05	20.29	0
			16QAM	1	1	19.92	19.88	20.14	0
			64QAM	1	1	19.83	19.86	20.30	0
			256QAM	1	1	18.76	19.05	19.16	1
		CP	QPSK	1	1	19.92	19.89	20.23	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	19.86	20.03	19.88	0
				1	53	19.80	20.15	19.86	0
				1	104	19.87	20.12	20.03	0
				50	0	19.87	20.18	19.88	0
				50	28	19.93	20.04	19.88	0
				50	56	19.87	20.02	19.87	0
				100	0	19.92	20.17	19.92	0
			QPSK	1	1	19.82	20.16	19.93	0
				1	53	19.87	20.20	20.05	0
				1	104	19.84	20.07	19.87	0
				50	0	19.76	20.18	19.93	0
				50	28	19.81	20.03	19.87	0
				50	56	19.84	20.20	20.04	0
				100	0	19.87	20.14	19.95	0
			16QAM	1	1	19.77	20.08	20.00	0
			64QAM	1	1	19.88	20.18	19.95	0
			256QAM	1	1	18.82	19.01	19.04	1
		CP	QPSK	1	1	19.94	20.05	20.03	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		16.37		0
				1	13		16.37		0
				1	23		16.35		0
				12	0		16.32		0
				12	7		16.31		0
				12	13		16.42		0
				25	0		16.35		0
			QPSK	1	1		16.32		0
				1	13		16.41		0
				1	23		16.40		0
				12	0		16.31		0
				12	7		16.35		0
				12	13		16.44		0
				25	0		16.30		0
			16QAM	1	1		16.39		0
			64QAM	1	1		16.45		0
			256QAM	1	1		15.28		1
		CP	QPSK	1	1		16.45		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		16.44		0
				1	26		16.44		0
				1	50		16.37		0
				25	0		16.30		0
				25	14		16.46		0
				25	27		16.28		0
				50	0		16.33		0
			QPSK	1	1		16.33		0
				1	26		16.44		0
				1	50		16.29		0
				25	0		16.28		0
				25	14		16.36		0
				25	27		16.34		0
				50	0		16.39		0
			16QAM	1	1		16.43		0
			64QAM	1	1		16.41		0
			256QAM	1	1		15.33		1
		CP	QPSK	1	1		16.38		0

[NR Band n66 Conducted Power]

NR Band n66 _5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	19.55	19.58	19.46	0
				1	13	19.49	19.54	19.48	0
				1	23	19.58	19.65	19.59	0
				12	0	19.56	19.60	19.54	0
				12	7	19.60	19.63	19.58	0
				12	13	19.59	19.64	19.61	0
				25	0	19.57	19.61	19.61	0
			QPSK	1	1	19.57	19.62	19.61	0
				1	13	19.54	19.55	19.56	0
				1	23	19.61	19.69	19.68	0
				12	0	19.59	19.64	19.60	0
				12	7	19.60	19.64	19.65	0
				12	13	19.60	19.67	19.66	0
				25	0	19.62	19.66	19.61	0
			16QAM	1	1	19.65	19.55	19.65	0
			64QAM	1	1	19.68	19.80	19.77	0
			256QAM	1	1	17.91	18.01	17.92	1
		CP	QPSK	1	1	19.57	19.62	19.53	0

NR Band n66 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	19.34	19.38	19.26	0
				1	26	19.45	19.34	19.28	0
				1	50	19.36	19.45	19.39	0
				25	0	19.38	19.40	19.34	0
				25	14	19.36	19.43	19.38	0
				25	27	19.40	19.44	19.41	0
				50	0	19.40	19.41	19.41	0
			QPSK	1	1	19.42	19.42	19.41	0
				1	26	19.46	19.35	19.36	0
				1	50	19.44	19.49	19.48	0
				25	0	19.42	19.44	19.40	0
				25	14	19.42	19.44	19.45	0
				25	27	19.41	19.47	19.46	0
				50	0	19.43	19.46	19.41	0
			16QAM	1	1	19.48	19.35	19.45	0
			64QAM	1	1	19.44	19.60	19.57	0
			256QAM	1	1	17.72	17.81	17.72	1
		CP	QPSK	1	1	19.34	19.42	19.33	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	19.23	19.37	19.24	0
				1	40	19.22	19.50	19.31	0
				1	77	19.35	19.59	19.46	0
				36	0	19.32	19.52	19.36	0
				36	22	**19.33**	19.59	19.40	0
				36	43	**19.32**	19.64	19.48	0
				75	0	19.33	19.60	19.39	0
			QPSK	1	1	19.33	19.38	19.29	0
				1	40	19.29	19.52	19.35	0
				1	77	19.39	19.57	19.52	0
				36	0	19.34	19.55	19.39	0
				36	22	**19.35**	19.61	19.43	0
				36	43	**19.40**	19.67	19.51	0
				75	0	19.34	19.59	19.43	0
			16QAM	1	1	19.24	19.41	19.29	0
			64QAM	1	1	19.39	19.50	19.45	0
			256QAM	1	1	17.61	17.78	17.66	1
		CP	QPSK	1	1	19.33	19.40	19.28	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	19.33	19.38	19.37	0
				1	53	19.55	19.82	19.64	0
				1	104	19.50	19.70	19.61	0
				50	0	19.46	19.66	19.50	0
				50	28	19.49	19.78	19.63	0
				50	56	19.52	19.85	19.64	0
				100	0	19.49	19.75	19.59	0
			QPSK	1	1	19.38	19.48	19.46	0
				1	53	19.59	19.63	19.80	0
				1	104	19.57	19.75	19.70	0
				50	0	19.46	19.70	19.54	0
				50	28	19.55	19.81	19.64	0
				50	56	19.56	19.65	19.85	0
				100	0	19.49	19.78	19.62	0
			16QAM	1	1	19.48	19.56	19.50	0
			64QAM	1	1	19.47	19.60	19.57	0
			256QAM	1	1	17.77	17.87	17.84	1
		CP	QPSK	1	1	19.30	19.38	19.44	0

Power Measurement Setup

11.4.3 NR FDD Bands Conducted Power for Grip sensor and Earjack activated

[NR Band n2 Conducted Power]

NR Band n2 _ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	19.87	20.10	20.32	0
				1	13	19.82	20.03	20.31	0
				1	23	19.95	19.97	20.23	0
				12	0	20.01	19.92	20.25	0
				12	7	19.91	20.07	20.25	0
				12	13	19.91	20.06	20.34	0
				25	0	20.05	20.13	20.41	0
			QPSK	1	1	20.00	20.11	20.24	0
				1	13	20.01	19.92	20.21	0
				1	23	20.02	20.03	20.43	0
				12	0	20.00	20.19	20.31	0
				12	7	19.97	20.10	20.43	0
				12	13	19.98	19.98	20.38	0
				25	0	19.99	20.05	20.29	0
			16QAM	1	1	20.03	20.12	20.29	0
			64QAM	1	1	19.98	20.17	20.44	0
			256QAM	1	1	18.31	18.46	18.74	1
		CP	QPSK	1	1	20.01	20.09	20.23	0

NR Band n2 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	19.96	19.89	20.15	0
				1	26	20.11	20.10	20.31	0
				1	50	20.10	19.95	20.36	0
				25	0	19.89	20.13	20.18	0
				25	14	20.03	20.04	20.20	0
				25	27	20.14	19.98	20.37	0
				50	0	19.92	19.99	20.34	0
			QPSK	1	1	19.91	19.95	20.38	0
				1	26	20.10	20.01	20.32	0
				1	50	20.13	20.09	20.30	0
				25	0	19.89	20.07	20.26	0
				25	14	20.03	19.96	20.39	0
				25	27	20.11	20.14	20.35	0
				50	0	19.94	20.11	20.40	0
			16QAM	1	1	20.00	20.05	20.27	0
			64QAM	1	1	20.03	20.26	20.44	0
			256QAM	1	1	18.35	18.40	18.64	1
		CP	QPSK	1	1	20.09	20.00	20.37	0

NR Band n2 _ 15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	19.90	20.06	20.12	0
				1	40	20.05	20.02	20.12	0
				1	77	20.25	20.06	20.39	0
				36	0	19.88	19.98	20.30	0
				36	22	20.04	20.15	20.28	0
				36	43	20.15	19.96	20.32	0
				75	0	20.05	20.02	20.28	0
			QPSK	1	1	19.87	20.01	20.28	0
				1	40	20.06	20.03	20.23	0
				1	77	20.13	20.03	20.22	0
				36	0	19.98	20.06	20.23	0
				36	22	20.19	20.05	20.19	0
				36	43	20.25	20.11	20.40	0
				75	0	20.03	20.00	20.31	0
			16QAM	1	1	19.68	19.93	20.11	0
			64QAM	1	1	19.96	20.01	20.45	0
			256QAM	1	1	18.27	18.33	18.54	1
		CP	QPSK	1	1	19.88	20.13	20.29	0

NR Band n2 _ 20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	19.75	19.91	20.14	0
				1	53	20.21	20.08	20.36	0
				1	104	20.20	19.91	20.20	0
				50	0	20.04	20.06	20.17	0
				50	28	20.11	20.15	20.37	0
				50	56	20.26	20.10	20.37	0
				100	0	20.02	20.04	20.17	0
			QPSK	1	1	19.84	19.99	20.19	0
				1	53	20.29	20.13	20.34	0
				1	104	20.20	19.91	20.16	0
				50	0	19.97	19.95	20.28	0
				50	28	20.23	20.03	20.27	0
				50	56	20.28	20.02	20.30	0
				100	0	20.09	20.10	20.20	0
			16QAM	1	1	19.77	20.08	20.11	0
			64QAM	1	1	19.98	19.97	20.31	0
			256QAM	1	1	18.09	18.34	18.56	1
		CP	QPSK	1	1	19.89	19.86	20.09	0

[NR Band n25 Conducted Power]

NR Band n25 _ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	19.84	19.96	20.05	0
				1	13	19.80	20.00	19.89	0
				1	23	19.83	19.97	20.02	0
				12	0	19.97	20.13	19.93	0
				12	7	**19.90**	19.97	20.01	0
				12	13	**19.87**	19.94	19.96	0
				25	0	19.97	20.11	20.11	0
			QPSK	1	1	19.83	20.07	19.89	0
				1	13	19.99	20.15	19.94	0
				1	23	19.91	19.98	20.04	0
				12	0	19.83	20.07	20.07	0
				12	7	**19.95**	19.93	19.98	0
				12	13	**19.87**	20.07	20.07	0
				25	0	19.88	20.06	20.04	0
			16QAM	1	1	19.81	20.00	19.91	0
			64QAM	1	1	**19.88**	20.12	**20.10**	0
			256QAM	1	1	**18.89**	18.90	**18.95**	1
		CP	QPSK	1	1	20.00	19.99	19.99	0

NR Band n25 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	19.90	20.08	20.14	0
				1	26	19.89	20.05	20.04	0
				1	50	19.91	19.87	20.12	0
				25	0	19.82	19.88	20.09	0
				25	14	**19.83**	**19.91**	20.10	0
				25	27	**19.84**	**19.89**	20.07	0
				50	0	19.95	19.94	20.17	0
			QPSK	1	1	19.76	20.07	19.96	0
				1	26	19.88	20.05	20.11	0
				1	50	19.76	19.87	20.22	0
				25	0	19.89	19.84	20.17	0
				25	14	**19.86**	**20.00**	20.15	0
				25	27	**19.93**	**19.91**	20.15	0
				50	0	19.96	20.10	20.17	0
			16QAM	1	1	19.94	19.88	20.05	0
			64QAM	1	1	**19.83**	19.91	**20.24**	0
			256QAM	1	1	**18.93**	19.08	**19.05**	1
		CP	QPSK	1	1	19.87	19.89	20.17	0

NR Band n25 _ 15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	19.78	19.91	20.28	0
				1	40	19.84	19.86	20.17	0
				1	77	19.80	19.98	20.19	0
				36	0	19.73	19.96	20.13	0
				36	22	19.91	19.98	20.14	0
				36	43	19.89	20.05	20.15	0
				75	0	19.75	20.04	20.27	0
			QPSK	1	1	19.91	19.86	20.10	0
				1	40	19.82	19.90	20.24	0
				1	77	19.97	19.88	20.32	0
				36	0	19.95	19.87	20.32	0
				36	22	19.92	19.84	20.19	0
				36	43	19.93	20.05	20.25	0
				75	0	19.85	20.04	20.27	0
			16QAM	1	1	19.88	19.91	20.12	0
			64QAM	1	1	19.78	19.83	20.28	0
			256QAM	1	1	18.73	19.05	19.14	1
		CP	QPSK	1	1	19.92	19.84	20.21	0

NR Band n25 _ 20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	19.86	20.03	19.86	0
				1	53	19.84	20.15	19.85	0
				1	104	19.82	20.11	20.01	0
				50	0	19.92	20.14	19.83	0
				50	28	19.92	20.04	19.91	0
				50	56	19.85	20.07	19.90	0
				100	0	19.95	20.17	19.87	0
			QPSK	1	1	19.81	20.14	19.98	0
				1	53	19.91	20.24	20.02	0
				1	104	19.89	20.10	19.90	0
				50	0	19.81	20.17	19.95	0
				50	28	19.76	20.06	19.87	0
				50	56	19.85	20.23	20.09	0
				100	0	19.86	20.10	19.93	0
			16QAM	1	1	19.82	20.08	20.03	0
			64QAM	1	1	19.87	20.23	19.97	0
			256QAM	1	1	18.80	18.98	19.08	1
		CP	QPSK	1	1	19.90	20.09	20.00	0

[NR Band n30 Conducted Power]

NR Band n30_ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							462000		
							2310 MHz		
5 MHz	15	DFT-s	pi/2 BPSK	1	1		16.33		0
				1	13		16.40		0
				1	23		16.35		0
				12	0		16.28		0
				12	7		16.26		0
				12	13		16.44		0
				25	0		16.32		0
			QPSK	1	1		16.31		0
				1	13		16.38		0
				1	23		16.35		0
				12	0		16.28		0
				12	7		16.33		0
				12	13		16.45		0
				25	0		16.32		0
			16QAM	1	1		16.41		0
			64QAM	1	1		16.45		0
			256QAM	1	1		15.24		1
		CP	QPSK	1	1		16.40		0

NR Band n30_ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							462000		
							2310 MHz		
10 MHz	15	DFT-s	pi/2 BPSK	1	1		16.46		0
				1	26		16.39		0
				1	50		16.34		0
				25	0		16.31		0
				25	14		16.46		0
				25	27		16.27		0
				50	0		16.32		0
			QPSK	1	1		16.31		0
				1	26		16.45		0
				1	50		16.31		0
				25	0		16.23		0
				25	14		16.33		0
				25	27		16.37		0
				50	0		16.35		0
			16QAM	1	1		16.45		0
			64QAM	1	1		16.36		0
			256QAM	1	1		15.30		1
		CP	QPSK	1	1		16.37		0

[NR Band n66 Conducted Power]

NR Band n66 _5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	19.69	19.63	19.52	0
				1	13	19.48	19.51	19.49	0
				1	23	19.61	19.52	19.56	0
				12	0	19.62	19.56	19.53	0
				12	7	**19.62**	19.72	19.61	0
				12	13	**19.72**	19.55	19.66	0
				25	0	19.58	19.59	19.54	0
			QPSK	1	1	19.53	19.56	19.60	0
				1	13	19.59	19.63	19.45	0
				1	23	19.58	19.67	19.70	0
				12	0	19.48	19.68	19.53	0
				12	7	**19.57**	19.62	19.73	0
				12	13	**19.59**	19.69	19.65	0
				25	0	19.66	19.66	19.67	0
			16QAM	1	1	19.62	19.50	19.65	0
			64QAM	1	1	19.57	19.85	19.70	0
			256QAM	1	1	17.99	17.93	17.92	1
		CP	QPSK	1	1	19.57	19.73	19.51	0

NR Band n66 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	19.27	19.44	19.28	0
				1	26	19.46	19.41	19.24	0
				1	50	19.30	19.52	19.35	0
				25	0	19.36	19.42	19.36	0
				25	14	19.41	19.41	19.34	0
				25	27	19.33	19.49	19.48	0
				50	0	19.41	19.34	19.36	0
			QPSK	1	1	19.46	19.45	19.35	0
				1	26	19.41	19.28	19.36	0
				1	50	19.43	19.42	19.49	0
				25	0	19.49	19.45	19.44	0
				25	14	19.37	19.44	19.43	0
				25	27	19.39	19.53	19.52	0
				50	0	19.49	19.40	19.37	0
			16QAM	1	1	19.47	19.34	19.50	0
			64QAM	1	1	19.43	19.57	19.55	0
			256QAM	1	1	17.79	17.79	17.79	1
		CP	QPSK	1	1	19.36	19.46	19.27	0

NR Band n66 _ 15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	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	19.29	19.33	19.24	0
				1	40	19.26	19.57	19.36	0
				1	77	19.36	19.67	19.48	0
				36	0	19.32	19.55	19.45	0
				36	22	19.44	19.70	19.41	0
				36	43	19.27	19.62	19.50	0
				75	0	19.45	19.53	19.33	0
			QPSK	1	1	19.23	19.51	19.37	0
				1	40	19.43	19.43	19.37	0
				1	77	19.43	19.53	19.53	0
				36	0	19.37	19.59	19.42	0
				36	22	19.35	19.70	19.34	0
				36	43	19.48	19.78	19.42	0
				75	0	19.24	19.58	19.36	0
			16QAM	1	1	19.13	19.35	19.22	0
			64QAM	1	1	19.34	19.40	19.47	0
			256QAM	1	1	17.73	17.73	17.69	1
		CP	QPSK	1	1	19.37	19.39	19.25	0

NR Band n66 _ 20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						344000	349000	354000	
						1720 MHz	1745 MHz	1770 MHz	
20 MHz	15	DFT-s	pi/2 BPSK	1	1	19.26	19.32	19.35	0
				1	53	19.52	19.82	19.62	0
				1	104	19.56	19.77	19.55	0
				50	0	19.53	19.63	19.49	0
				50	28	19.44	19.77	19.64	0
				50	56	19.59	19.92	19.58	0
				100	0	19.54	19.77	19.60	0
			QPSK	1	1	19.42	19.44	19.47	0
				1	53	19.56	19.70	19.85	0
				1	104	19.55	19.62	19.75	0
				50	0	19.47	19.69	19.53	0
				50	28	19.55	19.75	19.60	0
				50	56	**19.62**	19.64	19.83	0
				100	0	19.43	19.85	19.56	0
			16QAM	1	1	19.55	19.63	19.48	0
			64QAM	1	1	19.47	19.56	19.55	0
			256QAM	1	1	17.73	17.91	17.87	1
		CP	QPSK	1	1	19.34	19.38	19.46	0

Power Measurement Setup

11.4.4 NR TDD Bands Conducted Power for FTM Mode

In order to satisfy the limitations of the duty factor of the 5G NR TDD band, these were tested as n41 band 19.5 dBm and n77 band 17 dBm to which duty factor 100% were applied to all SAR test configurations (Head/Body worn/Hotspot/Phablet SAR) as FTM mode

[NR Band n41 Sub #2 Ant Power] For Head SAR (RCV-ON) configuration

NR Band n41 _10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						500202	509400	518598	527802	537000	
						2501.01 MHz	2547 MHz	2592.99 MHz	2639.01 MHz	2685 MHz	
10MHz	30	DFT-s	pi/2 BPSK	1	1	20.70	20.47	20.72	20.75	20.71	0
				1	12	20.78	20.50	20.76	20.78	20.72	0
				1	22	20.71	20.63	20.71	20.70	20.73	0
				12	0	20.58	20.46	20.75	20.78	20.67	0
				12	6	20.64	20.51	20.79	20.72	20.72	0
				12	12	20.66	20.50	20.67	20.76	20.77	0
				24	0	20.63	20.54	20.73	20.74	20.71	0
			QPSK	1	1	20.63	20.53	20.74	20.76	20.46	0
				1	12	20.71	20.50	20.66	20.74	20.75	0
				1	22	20.67	20.56	20.75	20.71	20.66	0
				12	0	20.66	20.44	20.69	20.77	20.69	0
				12	6	20.62	20.51	20.77	20.74	20.67	0
				12	12	20.67	20.59	20.76	20.77	20.76	0
				24	0	20.60	20.53	20.79	20.50	20.74	0
			16QAM	1	1	20.66	20.47	20.71	20.74	20.69	0
			64QAM	1	1	20.68	20.49	20.72	20.76	20.68	0
			256QAM	1	1	19.01	18.85	19.15	19.12	19.06	1
		CP	QPSK	1	1	20.65	20.47	20.69	20.70	20.67	0

NR Band n41 _15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						500700	509664	518598	527562	536496	
						2503.5 MHz	2548.32 MHz	2592.99 MHz	2637.81 MHz	2682.48 MHz	
15MHz	30	DFT-s	pi/2 BPSK	1	1	20.66	20.49	20.70	20.76	20.76	0
				1	18	20.67	20.51	20.74	20.64	20.70	0
				1	36	20.70	20.63	20.67	20.69	20.76	0
				18	0	20.67	20.49	20.69	20.71	20.75	0
				18	9	20.66	20.54	20.74	20.68	20.69	0
				18	18	20.71	20.58	20.74	20.68	20.73	0
				36	0	20.66	20.55	20.69	20.68	20.69	0
			QPSK	1	1	20.72	20.55	20.67	20.74	20.71	0
				1	18	20.65	20.48	20.75	20.66	20.72	0
				1	36	20.65	20.62	20.72	20.79	20.71	0
				18	0	20.63	20.51	20.67	20.69	20.74	0
				18	9	20.64	20.52	20.73	20.73	20.69	0
				18	18	20.63	20.56	20.75	20.69	20.70	0
				36	0	20.71	20.55	20.72	20.73	20.75	0
			16QAM	1	1	20.73	20.52	20.73	20.69	20.72	0
			64QAM	1	1	20.68	20.43	20.69	20.75	20.75	0
			256QAM	1	1	18.98	18.84	19.09	19.04	19.20	1
		CP	QPSK	1	1	20.64	20.41	20.60	20.66	20.74	0

NR Band n41 _20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						501204	509898	518598	527298	535998	
						2506.02 MHz	2549.49 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz	
20MHz	30	DFT-s	pi/2 BPSK	1	1	20.51	20.50	20.70	20.74	20.67	0
				1	26	20.50	20.60	20.77	20.70	20.78	0
				1	49	20.48	20.60	20.75	20.71	20.70	0
				25	0	20.47	20.53	20.65	20.67	20.75	0
				25	13	20.52	20.58	20.76	20.69	20.72	0
				25	26	20.53	20.56	20.78	20.64	20.67	0
				50	0	20.44	20.55	20.69	20.65	20.72	0
			QPSK	1	1	20.43	20.51	20.65	20.75	20.66	0
				1	26	20.37	20.53	20.69	20.69	20.68	0
				1	49	20.35	20.59	20.72	20.69	20.75	0
				25	0	20.44	20.52	20.68	20.69	20.68	0
				25	13	20.49	20.59	20.70	20.72	20.73	0
				25	26	20.44	20.64	20.70	20.72	20.69	0
				50	0	20.46	20.58	20.73	20.69	20.70	0
			16QAM	1	1	20.68	20.56	20.68	20.78	20.68	0
			64QAM	1	1	20.48	20.40	20.75	20.64	20.73	0
			256QAM	1	1	18.84	18.81	19.03	19.00	19.14	1
		CP	QPSK	1	1	20.44	20.45	20.64	20.62	20.65	0

NR Band n41 _30 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						502200	510402	518598	526800	534996	
						2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz	
30MHz	30	DFT-s	pi/2 BPSK	1	1	20.65	20.49	20.65	20.76	20.71	0
				1	39	20.56	20.68	20.72	20.75	20.72	0
				1	76	20.52	20.66	20.76	20.76	20.68	0
				36	0	20.54	20.55	20.70	20.70	20.68	0
				36	21	20.58	20.69	20.76	20.74	20.75	0
				36	42	20.53	20.59	20.76	20.74	20.71	0
				75	0	20.55	20.64	20.71	20.77	20.69	0
			QPSK	1	1	20.58	20.49	20.63	20.70	20.71	0
				1	39	20.66	20.64	20.76	20.71	20.69	0
				1	76	20.52	20.62	20.78	20.69	20.72	0
				36	0	20.59	20.57	20.67	20.68	20.69	0
				36	21	20.62	20.68	20.79	20.79	20.73	0
				36	42	20.46	20.65	20.74	20.70	20.76	0
				75	0	20.54	20.67	20.74	20.72	20.76	0
			16QAM	1	1	20.67	20.52	20.68	20.71	20.72	0
			64QAM	1	1	20.55	20.54	20.63	20.74	20.70	0
			256QAM	1	1	18.97	18.88	19.00	19.19	19.20	1
		CP	QPSK	1	1	20.53	20.44	20.66	20.72	20.62	0

NR Band n41 _40 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						503202	513468		523734	534000	
						2516.01 MHz	2567.34 MHz		2618.67 MHz	2670 MHz	
40MHz	30	DFT-s	pi/2 BPSK	1	1	20.48	20.49		20.68	20.70	0
				1	53	20.42	20.55		20.64	20.66	0
				1	104	20.37	20.62		20.79	20.74	0
				50	0	20.47	20.48		20.65	20.69	0
				50	28	**20.46**	**20.52**		20.65	20.73	0
				50	56	20.37	20.55		20.71	20.76	0
				100	0	20.43	20.55		20.72	20.75	0
			QPSK	1	1	20.44	20.49		20.65	20.63	0
				1	53	20.45	20.60		20.65	20.77	0
				1	104	20.42	20.58		20.76	20.74	0
				50	0	20.42	20.47		20.69	20.69	0
				50	28	20.44	20.51		20.69	20.70	0
				50	56	20.45	20.52		20.67	20.71	0
				100	0	20.45	20.56		20.78	20.73	0
			16QAM	1	1	20.54	20.55		20.69	20.69	0
			64QAM	1	1	20.44	20.35		20.66	20.72	0
			256QAM	1	1	18.82	18.81		19.05	19.11	1
		CP	QPSK	1	1	20.38	20.39		20.60	20.71	0

NR Band n41 _50 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						504204		518598		532998	
						2521.02 MHz		2592.99 MHz		2664.99 MHz	
50MHz	30	DFT-s	pi/2 BPSK	1	1	20.52		20.60		20.77	0
				1	67	20.54		20.69		20.69	0
				1	131	20.53		20.64		20.70	0
				64	0	20.54		20.65		20.72	0
				64	35	20.52		20.65		20.72	0
				64	69	20.45		20.65		20.67	0
				128	0	20.49		20.73		20.74	0
			QPSK	1	1	20.50		20.51		20.71	0
				1	67	20.50		20.73		20.72	0
				1	131	20.55		20.76		20.77	0
				64	0	20.55		20.66		20.71	0
				64	35	20.55		20.67		20.74	0
				64	69	20.47		20.71		20.69	0
				128	0	20.49		20.74		20.73	0
			16QAM	1	1	20.56		20.63		20.73	0
			64QAM	1	1	20.55		20.58		20.75	0
			256QAM	1	1	18.96		19.03		19.20	1
		CP	QPSK	1	1	20.45		20.47		20.76	0

NR Band n41 _60 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						505200		518598		531996	
						2526 MHz		2592.99 MHz		2659.98 MHz	
60MHz	30	DFT-s	pi/2 BPSK	1	1	20.47		20.52		20.64	0
				1	81	20.37		20.75		20.67	0
				1	160	20.52		20.77		20.68	0
				81	0	20.39		20.60		20.70	0
				81	41	20.44		20.78		20.63	0
				81	81	20.47		20.73		20.67	0
				162	0	20.37		20.70		20.60	0
			QPSK	1	1	20.37		20.64		20.60	0
				1	81	20.43		20.70		20.67	0
				1	160	20.57		20.70		20.72	0
				81	0	20.46		20.66		20.70	0
				81	41	20.36		20.77		20.77	0
				81	81	20.46		20.71		20.70	0
				162	0	20.41		20.74		20.75	0
			16QAM	1	1	20.50		20.66		20.71	0
			64QAM	1	1	20.45		20.51		20.70	0
			256QAM	1	1	18.81		18.89		19.10	1
		CP	QPSK	1	1	20.35		20.51		20.71	0

NR Band n41 _70 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						506208				530994	
						2531.04 MHz				2654.97 MHz	
70MHz	30	DFT-s	pi/2 BPSK	1	1	20.50				20.64	0
				1	81	20.62				20.69	0
				1	160	20.57				20.66	0
				81	0	20.50				20.74	0
				81	41	20.52				20.73	0
				81	81	20.54				20.71	0
				162	0	20.49				20.74	0
			QPSK	1	1	20.49				20.74	0
				1	81	20.51				20.69	0
				1	160	20.58				20.57	0
				81	0	20.49				20.65	0
				81	41	20.55				20.72	0
				81	81	20.54				20.65	0
				162	0	20.46				20.65	0
			16QAM	1	1	20.62				20.64	0
			64QAM	1	1	20.50				20.68	0
			256QAM	1	1	18.85				19.22	1
		CP	QPSK	1	1	20.37				20.73	0

NR Band n41 _80 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						507204				529998	
						2536.02 MHz				2649.99 MHz	
80MHz	30	DFT-s	pi/2 BPSK	1	1	20.43				20.65	0
				1	109	20.38				20.60	0
				1	215	20.64				20.74	0
				108	0	20.43				20.59	0
				108	55	20.43				20.65	0
				108	109	20.57				20.66	0
				216	0	20.39				20.66	0
			QPSK	1	1	20.40				20.69	0
				1	109	20.40				20.70	0
				1	215	20.59				20.72	0
				108	0	20.40				20.66	0
				108	55	20.42				20.68	0
				108	109	20.59				20.65	0
				216	0	20.37				20.67	0
			16QAM	1	1	20.67				20.66	0
			64QAM	1	1	20.46				20.70	0
			256QAM	1	1	18.81				19.07	1
		CP	QPSK	1	1	20.36				20.55	0

NR Band n41 _90 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						508200				528996	
						2541 MHz				2644.98 MHz	
90MHz	30	DFT-s	pi/2 BPSK	1	1	20.55				20.67	0
				1	123	20.58				20.73	0
				1	243	20.69				20.77	0
				120	0	20.47				20.68	0
				120	63	**20.57**				20.66	0
				120	125	**20.60**				20.65	0
				243	0	20.56				20.67	0
			QPSK	1	1	20.49				20.70	0
				1	123	20.59				20.72	0
				1	243	20.62				20.68	0
				120	0	20.45				20.66	0
				120	63	**20.56**				20.77	0
				120	125	**20.61**				20.65	0
				243	0	20.51				20.71	0
			16QAM	1	1	20.65				20.78	0
			64QAM	1	1	20.54				20.62	0
			256QAM	1	1	18.88				19.01	1
		CP	QPSK	1	1	20.43				20.67	0

NR Band n41 _100 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
								518598			
								2592.99 MHz			
100MHz	30	DFT-s	pi/2 BPSK	1	1			20.49			0
				1	137			20.73			0
				1	271			20.72			0
				135	0			20.66			0
				135	69			20.72			0
				135	138			20.70			0
				270	0			20.71			0
			QPSK	1	1			20.40			0
				1	137			20.78			0
				1	271			20.73			0
				135	0			20.62			0
				135	69			20.71			0
				135	138			20.69			0
				270	0			20.74			0
			16QAM	1	1			20.54			0
			64QAM	1	1			20.56			0
			256QAM	1	1			18.85			1
		CP	QPSK	1	1			20.41			0

[NR Band n41 Sub#2 Ant Conducted Power] For Hotspot/Body worn/Phablet SAR Configuration

NR Band n41 _10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						500202	509400	518598	527802	537000	
						2501.01 MHz	2547 MHz	2592.99 MHz	2639.01 MHz	2685 MHz	
10MHz	30	DFT-s	pi/2 BPSK	1	1	20.42	20.24	20.48	20.48	20.41	0
				1	12	20.47	20.25	20.49	20.47	20.42	0
				1	22	20.44	20.32	20.46	20.47	20.48	0
				12	0	20.35	20.20	20.46	20.48	20.36	0
				12	6	20.36	20.23	20.47	20.46	20.42	0
				12	12	20.37	20.26	20.43	20.46	20.49	0
				24	0	20.32	20.25	20.47	20.48	20.44	0
			QPSK	1	1	20.39	20.21	20.47	20.45	20.22	0
				1	12	20.39	20.24	20.41	20.49	20.47	0
				1	22	20.38	20.29	20.48	20.45	20.42	0
				12	0	20.35	20.21	20.46	20.48	20.41	0
				12	6	20.35	20.24	20.47	20.48	20.44	0
				12	12	20.38	20.28	20.46	20.47	20.48	0
				24	0	20.34	20.24	20.47	20.23	20.45	0
			16QAM	1	1	20.37	20.22	20.48	20.47	20.42	0
			64QAM	1	1	20.44	20.26	20.45	20.45	20.37	0
			256QAM	1	1	18.77	18.62	18.88	18.87	18.74	1
		CP	QPSK	1	1	20.36	20.20	20.42	20.45	20.39	0

NR Band n41 _15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						500700	509664	518598	527562	536496	
						2503.5 MHz	2548.32 MHz	2592.99 MHz	2637.81 MHz	2682.48 MHz	
15MHz	30	DFT-s	pi/2 BPSK	1	1	20.42	20.23	20.46	20.47	20.49	0
				1	18	20.38	20.25	20.46	20.41	20.42	0
				1	36	20.42	20.36	20.42	20.46	20.46	0
				18	0	20.39	20.24	20.45	20.45	20.46	0
				18	9	20.38	20.25	20.49	20.42	20.45	0
				18	18	20.41	20.28	20.49	20.43	20.48	0
				36	0	20.39	20.27	20.45	20.45	20.43	0
			QPSK	1	1	20.42	20.26	20.44	20.48	20.48	0
				1	18	20.36	20.24	20.45	20.41	20.44	0
				1	36	20.38	20.36	20.44	20.49	20.48	0
				18	0	20.38	20.23	20.42	20.45	20.47	0
				18	9	20.41	20.26	20.47	20.44	20.40	0
				18	18	20.38	20.28	20.45	20.44	20.41	0
				36	0	20.42	20.26	20.47	20.46	20.47	0
			16QAM	1	1	20.45	20.22	20.48	20.39	20.43	0
			64QAM	1	1	20.38	20.20	20.40	20.46	20.46	0
			256QAM	1	1	18.75	18.54	18.84	18.79	18.95	1
		CP	QPSK	1	1	20.37	20.17	20.34	20.42	20.45	0

NR Band n41 _20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						501204	509898	518598	527298	535998	
						2506.02 MHz	2549.49 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz	
20MHz	30	DFT-s	pi/2 BPSK	1	1	20.26	20.24	20.41	20.45	20.42	0
				1	26	20.24	20.30	20.47	20.41	20.49	0
				1	49	20.23	20.35	20.45	20.45	20.47	0
				25	0	20.20	20.27	20.42	20.41	20.45	0
				25	13	20.22	20.29	20.46	20.40	20.49	0
				25	26	20.23	20.32	20.49	20.39	20.43	0
				50	0	20.20	20.26	20.46	20.42	20.49	0
			QPSK	1	1	20.14	20.22	20.37	20.45	20.42	0
				1	26	20.14	20.29	20.45	20.44	20.41	0
				1	49	20.12	20.35	20.42	20.46	20.48	0
				25	0	20.21	20.26	20.44	20.43	20.43	0
				25	13	20.23	20.30	20.46	20.43	20.45	0
				25	26	20.20	20.34	20.47	20.43	20.44	0
				50	0	20.22	20.29	20.44	20.44	20.46	0
			16QAM	1	1	20.38	20.30	20.41	20.49	20.43	0
			64QAM	1	1	20.22	20.12	20.49	20.35	20.46	0
			256QAM	1	1	18.56	18.55	18.78	18.77	18.85	1
		CP	QPSK	1	1	20.15	20.16	20.37	20.39	20.42	0

NR Band n41 _30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						502200	510402	518598	526800	534996	
						2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz	
30MHz	30	DFT-s	pi/2 BPSK	1	1	20.35	20.25	20.42	20.48	20.46	0
				1	39	20.32	20.41	20.48	20.48	20.48	0
				1	76	20.25	20.39	20.49	20.47	20.45	0
				36	0	20.30	20.30	20.42	20.47	20.42	0
				36	21	20.34	20.39	20.47	20.48	20.46	0
				36	42	20.25	20.36	20.48	20.45	20.44	0
				75	0	20.28	20.37	20.47	20.47	20.45	0
			QPSK	1	1	20.34	20.21	20.39	20.46	20.41	0
				1	39	20.43	20.40	20.47	20.47	20.45	0
				1	76	20.27	20.36	20.48	20.45	20.46	0
				36	0	20.34	20.30	20.43	20.41	20.42	0
				36	21	20.33	20.39	20.49	20.49	20.46	0
				36	42	20.22	20.38	20.47	20.46	20.46	0
				75	0	20.27	20.37	20.44	20.49	20.46	0
			16QAM	1	1	20.37	20.22	20.44	20.41	20.48	0
			64QAM	1	1	20.28	20.29	20.38	20.45	20.44	0
			256QAM	1	1	18.69	18.63	18.72	18.95	18.95	1
		CP	QPSK	1	1	20.26	20.21	20.36	20.47	20.39	0

NR Band n41 _40 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						503202	513468		523734	534000	
						2516.01 MHz	2567.34 MHz		2618.67 MHz	2670 MHz	
40MHz	30	DFT-s	pi/2 BPSK	1	1	20.19	20.20		20.38	20.47	0
				1	53	20.16	20.30		20.40	20.37	0
				1	104	20.12	20.32		20.49	20.46	0
				50	0	20.18	20.23		20.41	20.44	0
				50	28	20.18	20.28		20.40	20.45	0
				50	56	20.13	20.28		20.47	20.46	0
				100	0	20.16	20.28		20.47	20.46	0
			QPSK	1	1	20.21	20.23		20.36	20.40	0
				1	53	20.18	20.30		20.40	20.48	0
				1	104	20.16	20.32		20.47	20.47	0
				50	0	20.19	20.24		20.41	20.43	0
				50	28	20.19	20.27		20.41	20.45	0
				50	56	20.16	20.28		20.41	20.47	0
				100	0	20.16	20.26		20.49	20.48	0
			16QAM	1	1	20.31	20.25		20.42	20.45	0
			64QAM	1	1	20.14	20.10		20.39	20.49	0
			256QAM	1	1	18.52	18.55		18.75	18.84	1
		CP	QPSK	1	1	20.13	20.14		20.34	20.46	0

NR Band n41 _50 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						504204		518598		532998	
						2521.02 MHz		2592.99 MHz		2664.99 MHz	
50MHz	30	DFT-s	pi/2 BPSK	1	1	20.29		20.35		20.47	0
				1	67	20.28		20.42		20.44	0
				1	131	20.28		20.41		20.43	0
				64	0	20.28		20.42		20.43	0
				64	35	20.29		20.41		20.45	0
				64	69	20.21		20.42		20.41	0
				128	0	20.22		20.49		20.47	0
			QPSK	1	1	20.23		20.26		20.46	0
				1	67	20.26		20.49		20.46	0
				1	131	20.26		20.47		20.48	0
				64	0	20.29		20.41		20.42	0
				64	35	20.27		20.41		20.48	0
				64	69	20.22		20.42		20.43	0
				128	0	20.22		20.46		20.47	0
			16QAM	1	1	20.32		20.40		20.47	0
			64QAM	1	1	20.31		20.35		20.45	0
			256QAM	1	1	18.68		18.74		18.91	1
		CP	QPSK	1	1	20.18		20.24		20.48	0

NR Band n41 _60 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						505200		518598		531996	
						2526 MHz		2592.99 MHz		2659.98 MHz	
60MHz	30	DFT-s	pi/2 BPSK	1	1	20.17		20.29		20.41	0
				1	81	20.13		20.49		20.41	0
				1	160	20.29		20.49		20.40	0
				81	0	20.14		20.36		20.47	0
				81	41	20.14		20.49		20.35	0
				81	81	20.18		20.48		20.37	0
				162	0	20.11		20.47		20.36	0
			QPSK	1	1	20.13		20.34		20.37	0
				1	81	20.13		20.45		20.40	0
				1	160	20.27		20.47		20.42	0
				81	0	20.17		20.39		20.41	0
				81	41	20.13		20.49		20.48	0
				81	81	20.18		20.42		20.46	0
				162	0	20.13		20.49		20.46	0
			16QAM	1	1	20.25		20.36		20.47	0
			64QAM	1	1	20.19		20.27		20.45	0
			256QAM	1	1	18.56		18.59		18.81	1
		CP	QPSK	1	1	20.09		20.25		20.41	0

NR Band n41 _70 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						506208				530994	
						2531.04 MHz				2654.97 MHz	
70MHz	30	DFT-s	pi/2 BPSK	1	1	20.22				20.40	0
				1	81	20.32				20.43	0
				1	160	20.33				20.42	0
				81	0	20.26				20.45	0
				81	41	20.25				20.45	0
				81	81	20.26				20.46	0
				162	0	20.21				20.45	0
			QPSK	1	1	20.21				20.47	0
				1	81	20.27				20.46	0
				1	160	20.30				20.34	0
				81	0	20.25				20.40	0
				81	41	20.27				20.42	0
				81	81	20.25				20.41	0
				162	0	20.21				20.40	0
			16QAM	1	1	20.35				20.37	0
			64QAM	1	1	20.20				20.41	0
			256QAM	1	1	18.58				18.93	1
		CP	QPSK	1	1	20.13				20.43	0

NR Band n41 _80 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						507204				529998	
						2536.02 MHz				2649.99 MHz	
80MHz	30	DFT-s	pi/2 BPSK	1	1	20.18				20.42	0
				1	109	20.15				20.36	0
				1	215	20.34				20.45	0
				108	0	20.13				20.29	0
				108	55	20.17				20.41	0
				108	109	20.31				20.40	0
				216	0	20.12				20.40	0
			QPSK	1	1	20.17				20.44	0
				1	109	20.12				20.41	0
				1	215	20.33				20.49	0
				108	0	20.15				20.42	0
				108	55	20.15				20.39	0
				108	109	20.33				20.41	0
				216	0	20.12				20.43	0
			16QAM	1	1	20.37				20.40	0
			64QAM	1	1	20.19				20.40	0
			256QAM	1	1	18.57				18.78	1
		CP	QPSK	1	1	20.11				20.32	0

NR Band n41 _90 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						508200				528996	
						2541 MHz				2644.98 MHz	
90MHz	30	DFT-s	pi/2 BPSK	1	1	20.25				20.40	0
				1	123	20.30				20.45	0
				1	243	20.39				20.47	0
				120	0	20.21				20.40	0
				120	63	20.30				20.43	0
				120	125	20.36				20.37	0
				243	0	20.30				20.42	0
			QPSK	1	1	20.25				20.47	0
				1	123	20.35				20.43	0
				1	243	20.38				20.45	0
				120	0	20.22				20.39	0
				120	63	20.33				20.47	0
				120	125	20.36				20.39	0
				243	0	20.27				20.48	0
			16QAM	1	1	20.36				20.48	0
			64QAM	1	1	20.25				20.36	0
			256QAM	1	1	18.61				18.78	1
		CP	QPSK	1	1	20.18				20.42	0

NR Band n41 _100 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
								518598			
								2592.99 ㎒			
100MHz	30	DFT-s	pi/2 BPSK	1	1			20.24			0
				1	137			20.49			0
				1	271			20.48			0
				135	0			20.36			0
				135	69			20.47			0
				135	138			20.45			0
				270	0			20.46			0
			QPSK	1	1			20.17			0
				1	137			20.49			0
				1	271			20.48			0
				135	0			20.36			0
				135	69			20.47			0
				135	138			20.46			0
				270	0			20.45			0
			16QAM	1	1			20.25			0
			64QAM	1	1			20.26			0
			256QAM	1	1			18.59			1
		CP	QPSK	1	1			20.11			0

[NR Band n41 Main#2 Ant Conducted Power] For All SAR configurations
- Head/Body worn/Hotspot/Phablet SAR

NR Band n41 _10 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						500202	509400	518598	527802	537000	
						2501.01 MHz	2547 MHz	2592.99 MHz	2639.01 MHz	2685 MHz	
10MHz	30	DFT-s	pi/2 BPSK	1	1	19.60	19.81	20.31	20.16	19.77	0
				1	12	19.64	19.86	20.33	20.19	19.70	0
				1	22	19.55	19.96	20.42	20.16	19.77	0
				12	0	19.57	19.81	20.29	20.16	19.73	0
				12	6	19.55	19.81	20.34	20.21	19.70	0
				12	12	19.53	19.87	20.41	20.17	19.73	0
				24	0	19.55	19.80	20.34	20.20	19.69	0
			QPSK	1	1	19.55	19.81	20.33	20.19	19.75	0
				1	12	19.52	19.88	20.35	20.21	19.72	0
				1	22	19.47	19.95	20.44	20.16	19.75	0
				12	0	19.56	19.80	20.29	20.15	19.72	0
				12	6	19.53	19.82	20.33	20.20	19.72	0
				12	12	19.52	19.91	20.40	20.17	19.73	0
				24	0	19.55	19.80	20.32	20.19	19.72	0
			16QAM	1	1	19.57	19.78	20.28	20.16	19.68	0
			64QAM	1	1	19.52	19.76	20.40	20.14	19.76	0
			256QAM	1	1	17.94	18.14	18.67	18.52	18.10	1
		CP	QPSK	1	1	19.47	19.71	20.20	20.14	19.70	0

NR Band n41 _15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						500700	509664	518598	527562	536496	
						2503.5 MHz	2548.32 MHz	2592.99 MHz	2637.81 MHz	2682.48 MHz	
15MHz	30	DFT-s	pi/2 BPSK	1	1	19.62	19.85	20.33	20.11	20.00	0
				1	18	19.48	19.82	20.30	20.13	19.88	0
				1	36	19.61	20.00	20.34	20.06	19.93	0
				18	0	19.59	19.79	20.30	20.09	19.92	0
				18	9	19.50	19.86	20.29	20.12	19.91	0
				18	18	19.59	19.94	20.38	20.16	19.91	0
				36	0	19.50	19.86	20.35	20.13	19.91	0
			QPSK	1	1	19.60	19.82	20.29	20.08	19.97	0
				1	18	19.49	19.77	20.22	20.08	19.88	0
				1	36	19.62	19.99	20.32	20.05	19.90	0
				18	0	19.59	19.80	20.29	20.12	19.95	0
				18	9	19.53	19.85	20.30	20.14	19.95	0
				18	18	19.58	19.93	20.38	20.18	19.91	0
				36	0	19.53	19.86	20.31	20.15	19.92	0
			16QAM	1	1	19.82	19.90	20.46	20.03	19.97	0
			64QAM	1	1	19.63	19.89	20.35	20.08	19.97	0
			256QAM	1	1	17.97	18.23	18.71	18.52	18.38	1
		CP	QPSK	1	1	19.50	19.76	20.22	20.02	19.90	0

NR Band n41 _20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						501204	509898	518598	527298	535998	
						2506.02 MHz	2549.49 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz	
20MHz	30	DFT-s	pi/2 BPSK	1	1	19.44	19.87	20.32	20.12	19.96	0
				1	26	19.42	19.96	20.33	20.09	19.89	0
				1	49	19.48	20.07	20.36	20.05	19.88	0
				25	0	19.39	19.84	20.31	20.06	19.93	0
				25	13	19.42	19.91	20.30	20.08	19.88	0
				25	26	19.43	20.02	20.34	20.09	19.84	0
				50	0	19.41	19.92	20.32	20.09	19.89	0
			QPSK	1	1	19.45	19.84	20.33	20.08	19.93	0
				1	26	19.43	19.91	20.30	20.07	19.86	0
				1	49	19.41	19.97	20.29	20.02	19.84	0
				25	0	19.45	19.83	20.30	20.08	19.92	0
				25	13	19.42	19.95	20.33	20.11	19.93	0
				25	26	19.44	20.05	20.36	20.12	19.83	0
				50	0	19.42	19.93	20.32	20.12	19.90	0
			16QAM	1	1	19.46	19.95	20.40	20.16	20.03	0
			64QAM	1	1	19.53	19.90	20.39	20.21	20.01	0
			256QAM	1	1	17.78	18.19	18.69	18.49	18.30	1
		CP	QPSK	1	1	19.33	19.74	20.19	20.01	19.81	0

NR Band n41 _30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						502200	510402	518598	526800	534996	
						2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz	
30MHz	30	DFT-s	pi/2 BPSK	1	1	19.42	19.76	20.20	20.30	20.13	0
				1	39	19.40	20.03	20.33	20.23	20.08	0
				1	76	19.56	20.15	20.32	20.14	19.93	0
				36	0	19.37	19.82	20.28	20.25	20.08	0
				36	21	19.48	20.03	20.29	20.24	20.02	0
				36	42	19.50	20.00	20.29	20.23	19.97	0
				75	0	19.46	20.00	20.24	20.25	20.05	0
			QPSK	1	1	19.42	19.80	20.18	20.31	20.07	0
				1	39	19.42	20.10	20.37	20.29	20.02	0
				1	76	19.55	20.16	20.33	20.12	19.91	0
				36	0	19.42	19.85	20.29	20.28	20.10	0
				36	21	19.46	20.04	20.30	20.27	20.07	0
				36	42	19.53	20.02	20.30	20.22	19.98	0
				75	0	19.50	20.02	20.29	20.22	20.05	0
			16QAM	1	1	19.38	19.67	20.17	20.23	20.05	0
			64QAM	1	1	19.43	19.77	20.21	20.25	20.07	0
			256QAM	1	1	17.81	18.17	18.55	18.63	18.47	1
		CP	QPSK	1	1	19.33	19.68	20.09	20.24	19.94	0

NR Band n41 _40 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						503202	513468		523734	534000	
						2516.01 MHz	2567.34 MHz		2618.67 MHz	2670 MHz	
40MHz	30	DFT-s	pi/2 BPSK	1	1	19.36	19.79		20.19	19.88	0
				1	53	19.46	19.99		20.21	19.92	0
				1	104	19.56	20.21		20.16	19.81	0
				50	0	19.37	19.94		20.24	19.97	0
				50	28	19.42	20.01		20.18	19.92	0
				50	56	19.53	20.11		20.15	19.86	0
				100	0	19.41	20.02		20.18	19.93	0
			QPSK	1	1	19.36	19.80		20.13	19.91	0
				1	53	19.46	20.05		20.22	19.99	0
				1	104	19.51	20.15		20.10	19.80	0
				50	0	19.39	19.89		20.25	20.02	0
				50	28	19.42	20.01		20.21	19.98	0
				50	56	19.53	20.06		20.20	19.91	0
				100	0	19.43	20.05		20.19	19.96	0
			16QAM	1	1	19.47	19.65		20.15	20.04	0
			64QAM	1	1	19.44	19.73		20.14	20.03	0
			256QAM	1	1	17.79	18.16		18.53	18.30	1
		CP	QPSK	1	1	19.26	19.65		20.02	19.86	0

NR Band n41 _50 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						504204		518598		532998	
						2521.02 MHz		2592.99 MHz		2664.99 MHz	
50MHz	30	DFT-s	pi/2 BPSK	1	1	19.44		20.03		20.21	0
				1	67	19.61		20.33		20.13	0
				1	131	19.82		20.22		19.91	0
				64	0	19.53		20.22		20.08	0
				64	35	19.60		20.31		20.11	0
				64	69	19.55		20.29		20.02	0
				128	0	19.58		20.26		20.14	0
			QPSK	1	1	19.46		20.00		20.21	0
				1	67	19.62		20.31		20.19	0
				1	131	19.82		20.19		19.91	0
				64	0	19.53		20.22		20.08	0
				64	35	19.61		20.31		20.15	0
				64	69	19.58		20.31		20.04	0
				128	0	19.58		20.29		20.10	0
			16QAM	1	1	19.36		20.10		20.08	0
			64QAM	1	1	19.42		20.11		20.20	0
			256QAM	1	1	17.81		18.40		18.55	1
		CP	QPSK	1	1	19.40		19.94		20.16	0

NR Band n41 _60 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						505200		518598		531996	
						2526 MHz		2592.99 MHz		2659.98 MHz	
60MHz	30	DFT-s	pi/2 BPSK	1	1	19.31		20.08		20.06	0
				1	81	19.51		20.33		20.05	0
				1	160	19.95		20.17		19.83	0
				81	0	19.35		20.18		20.01	0
				81	41	19.50		20.32		20.04	0
				81	81	19.77		20.32		19.95	0
				162	0	19.50		20.27		20.01	0
			QPSK	1	1	19.31		20.07		20.05	0
				1	81	19.59		20.39		20.09	0
				1	160	19.97		20.17		19.82	0
				81	0	19.33		20.19		20.02	0
				81	41	19.54		20.36		20.07	0
				81	81	19.82		20.33		19.97	0
				162	0	19.50		20.28		20.03	0
			16QAM	1	1	19.26		20.02		20.00	0
			64QAM	1	1	19.31		20.05		20.04	0
			256QAM	1	1	17.65		18.44		18.37	1
		CP	QPSK	1	1	19.29		19.94		19.99	0

NR Band n41 _70 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						506208				530994	
						2531.04 MHz				2654.97 MHz	
70MHz	30	DFT-s	pi/2 BPSK	1	1	19.39				20.18	0
				1	81	19.69				20.19	0
				1	160	20.01				19.97	0
				81	0	19.43				20.22	0
				81	41	19.63				20.13	0
				81	81	19.89				20.12	0
				162	0	19.61				20.10	0
			QPSK	1	1	19.37				20.19	0
				1	81	19.65				20.17	0
				1	160	19.99				19.97	0
				81	0	19.46				20.26	0
				81	41	19.64				20.18	0
				81	81	19.92				20.14	0
				162	0	19.60				20.14	0
			16QAM	1	1	19.31				20.16	0
			64QAM	1	1	19.33				20.14	0
			256QAM	1	1	17.75				18.57	1
		CP	QPSK	1	1	19.30				20.09	0

NR Band n41 _80 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						507204				529998	
						2536.02 MHz				2649.99 MHz	
80MHz	30	DFT-s	pi/2 BPSK	1	1	19.35				20.17	0
				1	109	19.59				20.08	0
				1	215	20.08				19.86	0
				108	0	19.39				20.13	0
				108	55	19.58				20.05	0
				108	109	19.96				19.97	0
				216	0	19.57				20.00	0
			QPSK	1	1	19.31				20.19	0
				1	109	19.60				20.08	0
				1	215	20.08				19.88	0
				108	0	19.41				20.14	0
				108	55	19.58				20.06	0
				108	109	19.97				20.00	0
				216	0	19.56				20.04	0
			16QAM	1	1	19.23				20.43	0
			64QAM	1	1	19.29				20.10	0
			256QAM	1	1	17.74				18.53	1
		CP	QPSK	1	1	19.22				20.16	0

NR Band n41 _90 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
						508200				528996	
						2541 MHz				2644.98 MHz	
90MHz	30	DFT-s	pi/2 BPSK	1	1	19.44				20.19	0
				1	123	19.95				20.27	0
				1	243	20.31				19.84	0
				120	0	19.55				20.23	0
				120	63	19.93				20.20	0
				120	125	20.17				20.04	0
				243	0	19.90				20.15	0
			QPSK	1	1	19.45				20.21	0
				1	123	19.98				20.21	0
				1	243	20.31				19.79	0
				120	0	19.56				20.28	0
				120	63	19.92				20.22	0
				120	125	20.21				20.09	0
				243	0	19.90				20.16	0
			16QAM	1	1	19.63				20.25	0
			64QAM	1	1	19.41				20.27	0
			256QAM	1	1	17.81				18.59	1
		CP	QPSK	1	1	19.42				20.15	0

NR Band n41 _100 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]					MPR [dB]
								518598 2592.99 ㎒			
100MHz	30	DFT-s	pi/2 BPSK	1	1			19.76			0
				1	137			20.39			0
				1	271			20.18			0
				135	0			20.02			0
				135	69			20.32			0
				135	138			20.25			0
				270	0			20.24			0
			QPSK	1	1			19.77			0
				1	137			20.36			0
				1	271			20.16			0
				135	0			20.06			0
				135	69			20.35			0
				135	138			20.27			0
				270	0			20.25			0
			16QAM	1	1			19.97			0
			64QAM	1	1			19.80			0
			256QAM	1	1			18.15			1
		CP	QPSK	1	1			19.71			0

[NR Band n77 Conducted Power] for Head SAR [RCV-ON] Configuration

NR Band n77_ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						647000	650600	654200	657800	661400	665000	
						3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz	
10MHz	30	DFT-s	pi/2 BPSK	1	1	17.39	17.18	17.23	17.73	17.26	16.94	0
				1	12	17.50	16.97	17.44	17.45	17.33	17.03	0
				1	22	17.54	17.04	17.48	17.57	17.22	17.06	0
				12	0	17.31	17.26	17.19	17.60	17.27	16.95	0
				12	6	17.36	16.93	17.42	17.56	17.25	17.00	0
				12	12	17.49	17.03	17.46	17.55	17.23	17.00	0
				24	0	17.46	16.90	17.35	17.55	17.27	16.97	0
			QPSK	1	1	17.35	17.20	17.29	17.73	17.34	16.93	0
				1	12	17.49	16.95	17.34	17.57	17.23	16.93	0
				1	22	17.45	17.00	17.44	17.51	17.26	16.99	0
				12	0	17.32	17.20	17.25	17.65	17.26	16.88	0
				12	6	17.42	16.92	17.31	17.50	17.29	17.05	0
				12	12	17.53	17.01	17.40	17.59	17.19	17.02	0
				24	0	17.48	17.01	17.36	17.58	17.30	16.98	0
			16QAM	1	1	17.56	17.44	17.35	17.76	17.18	16.67	0
			64QAM	1	1	17.40	17.28	17.25	17.68	17.36	17.00	0
			256QAM	1	1	16.15	16.24	16.09	16.59	16.19	15.80	1
		CP	QPSK	1	1	17.26	17.09	17.08	17.62	17.15	16.75	0

NR Band n77_ 15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						647168	650700	654232	657766	661300	664832	
						3707.52 MHz	3760.5 MHz	3813.49 MHz	3866.5 MHz	3919.5 MHz	3972.48 MHz	
15MHz	30	DFT-s	pi/2 BPSK	1	1	17.36	17.08	17.11	17.67	17.36	17.08	0
				1	18	17.40	16.80	17.30	17.55	17.15	16.93	0
				1	36	17.58	17.01	17.47	17.54	17.19	17.05	0
				18	0	17.27	17.07	17.13	17.65	17.23	16.97	0
				18	9	17.38	16.87	17.26	17.67	17.15	16.98	0
				18	18	17.48	16.82	17.40	17.50	17.15	17.08	0
				36	0	17.39	16.84	17.27	17.54	17.18	17.04	0
			QPSK	1	1	17.31	17.11	17.06	17.55	17.26	16.99	0
				1	18	17.39	16.78	17.19	17.50	17.10	16.94	0
				1	36	17.51	16.95	17.46	17.48	17.14	16.93	0
				18	0	17.30	17.11	17.13	17.61	17.29	17.07	0
				18	9	17.41	16.80	17.29	17.65	17.22	17.02	0
				18	18	17.47	16.92	17.33	17.50	17.15	17.06	0
				36	0	17.38	16.79	17.29	17.59	17.22	17.04	0
			16QAM	1	1	17.33	17.03	17.15	17.78	17.37	17.10	0
			64QAM	1	1	17.33	17.13	17.19	17.73	17.41	17.19	0
			256QAM	1	1	16.17	15.91	16.03	16.59	16.20	15.95	1
		CP	QPSK	1	1	17.22	17.02	17.02	17.51	17.22	16.91	0

NR Band n77_20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						647334	650800	654266	657734	661200	664666	
						3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99MHz	
20MHz	30	DFT-s	pi/2 BPSK	1	1	17.26	17.16	17.09	17.51	17.28	16.94	0
				1	26	17.48	16.92	17.29	17.60	17.18	16.93	0
				1	49	17.57	17.08	17.56	17.48	17.16	16.95	0
				25	0	17.35	17.11	17.20	17.59	17.23	16.95	0
				25	13	17.47	16.90	17.34	17.63	17.14	16.93	0
				25	26	17.45	16.95	17.48	17.40	17.19	16.87	0
				50	0	17.43	16.87	17.30	17.54	17.21	16.93	0
			QPSK	1	1	17.23	17.15	17.06	17.56	17.26	16.90	0
				1	26	17.47	16.90	17.29	17.60	17.22	16.94	0
				1	49	17.46	17.02	17.54	17.40	17.04	17.00	0
				25	0	17.38	17.14	17.15	17.69	17.29	17.06	0
				25	13	17.46	16.92	17.29	17.57	17.20	16.97	0
				25	26	17.51	17.03	17.39	17.49	17.16	16.94	0
				50	0	17.42	16.97	17.31	17.60	17.16	16.99	0
			16QAM	1	1	17.56	17.50	17.07	17.68	17.38	17.38	0
			64QAM	1	1	17.26	17.09	17.00	17.59	17.25	17.05	0
			256QAM	1	1	16.12	15.97	15.93	16.45	16.17	15.83	1
		CP	QPSK	1	1	17.21	16.96	16.88	17.61	17.35	16.80	0

NR Band n77_ 25 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						647500	650900	654300	657700	661100	664500	
						3712.5 MHz	3763.5 MHz	3814.5 MHz	3865.5 MHz	3916.5 MHz	3967.5 MHz	
25MHz	30	DFT-s	pi/2 BPSK	1	1	17.29	17.17	17.11	17.62	17.34	16.78	0
				1	32	17.55	16.91	17.32	17.57	17.26	16.94	0
				1	63	17.67	17.07	17.62	17.47	17.08	17.01	0
				32	0	17.40	17.20	17.14	17.64	17.27	17.04	0
				32	17	17.56	16.99	17.31	17.61	17.23	16.99	0
				32	33	17.49	17.03	17.44	17.45	17.17	16.97	0
				64	0	17.42	16.91	17.28	17.63	17.22	16.99	0
			QPSK	1	1	17.20	17.11	17.01	17.58	17.26	16.74	0
				1	32	17.44	17.05	17.33	17.55	17.20	17.02	0
				1	63	17.59	17.01	17.53	17.47	17.09	16.94	0
				32	0	17.45	17.17	17.12	17.62	17.32	17.03	0
				32	17	17.56	16.94	17.32	17.69	17.29	16.99	0
				32	33	17.52	17.09	17.48	17.48	17.15	16.98	0
				64	0	17.53	16.97	17.36	17.60	17.20	16.96	0
			16QAM	1	1	17.45	17.39	17.05	17.69	17.19	17.01	0
			64QAM	1	1	17.28	17.10	16.99	17.64	17.33	16.83	0
			256QAM	1	1	16.13	16.11	15.95	16.46	16.17	15.71	1
		CP	QPSK	1	1	17.14	17.12	16.90	17.65	17.17	16.75	0

NR Band n77_30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						647668	651000	654334	657666	661000	664332	
						3715.02 MHz	3765 MHz	3815.01 MHz	3864.99 MHz	3915 MHz	3964.98 MHz	
30MHz	30	DFT-s	pi/2 BPSK	1	1	17.16	16.94	16.86	17.72	17.32	16.92	0
				1	39	17.47	16.91	17.27	17.76	17.37	17.16	0
				1	76	17.60	17.33	17.61	17.45	17.05	16.99	0
				36	0	17.34	16.98	16.95	17.77	17.29	17.14	0
				36	21	17.47	16.97	17.26	17.70	17.28	17.14	0
				36	42	17.46	17.01	17.45	17.57	17.21	17.03	0
				75	0	17.44	16.87	17.19	17.75	17.22	17.04	0
			QPSK	1	1	17.10	16.95	16.88	17.72	17.34	16.88	0
				1	39	17.45	16.90	17.27	17.72	17.34	17.07	0
				1	76	17.45	17.30	17.63	17.44	17.06	16.97	0
				36	0	17.39	17.09	17.05	17.80	17.34	17.16	0
				36	21	17.49	16.94	17.33	17.74	17.30	17.15	0
				36	42	17.43	17.03	17.47	17.46	17.19	17.00	0
				75	0	17.45	16.93	17.21	17.69	17.28	17.11	0
			16QAM	1	1	17.18	17.14	16.99	17.98	17.20	16.97	0
			64QAM	1	1	17.18	17.03	16.90	17.79	17.44	16.97	0
			256QAM	1	1	15.96	15.81	15.69	16.66	16.18	15.74	1
		CP	QPSK	1	1	16.98	16.89	16.75	17.70	17.27	16.79	0

NR Band n77_40 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						648000	651200	654400	657600	660800	664000	
						3720 MHz	3768 MHz	3816 MHz	3864 MHz	3912 MHz	3960 MHz	
40MHz	30	DFT-s	pi/2 BPSK	1	1	17.12	17.00	16.85	17.90	17.36	16.65	0
				1	53	17.63	17.02	17.44	17.72	17.48	17.10	0
				1	104	17.23	17.14	17.64	17.44	16.88	16.96	0
				50	0	17.44	17.04	16.88	17.75	17.55	16.86	0
				50	28	17.53	16.99	17.30	17.71	17.42	17.13	0
				50	56	17.55	17.31	17.59	17.44	17.13	16.96	0
				100	0	17.51	16.96	17.26	17.63	17.39	17.03	0
			QPSK	1	1	17.12	16.94	16.73	17.82	17.25	16.64	0
				1	53	17.53	17.07	17.40	17.81	17.39	17.10	0
				1	104	17.21	17.15	17.56	17.45	16.82	16.95	0
				50	0	17.45	16.99	16.92	17.74	17.49	16.88	0
				50	28	17.49	17.03	17.37	17.73	17.47	17.12	0
				50	56	17.52	17.32	17.56	17.55	17.20	17.00	0
				100	0	17.49	16.95	17.23	17.63	17.32	17.15	0
			16QAM	1	1	17.30	17.01	16.82	17.99	17.52	16.97	0
			64QAM	1	1	17.04	16.97	16.83	17.93	17.47	16.67	0
			256QAM	1	1	15.98	15.93	15.60	16.78	16.24	15.54	1
		CP	QPSK	1	1	16.96	16.88	16.65	17.73	17.27	16.67	0

NR Band n77_ 50 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						648334	652166	656000		659834	663666	
						3725.01 MHz	3782.49 MHz	3840 MHz		3897.51 MHz	3954.99 MHz	
50MHz	30	DFT-s	pi/2 BPSK	1	1	17.03	16.62	17.09		17.12	16.77	0
				1	67	17.63	17.43	17.82		17.60	17.01	0
				1	131	17.23	16.99	17.61		17.19	16.88	0
				64	0	17.28	16.93	17.42		17.41	16.74	0
				64	35	17.59	17.30	17.68		17.58	17.01	0
				64	69	17.35	17.16	17.84		17.47	17.00	0
				128	0	17.55	17.20	17.61		17.59	16.98	0
			QPSK	1	1	17.03	16.68	17.10		17.08	16.80	0
				1	67	17.68	17.33	17.78		17.62	16.95	0
				1	131	17.27	17.05	17.60		17.21	16.88	0
				64	0	17.37	16.96	17.46		17.42	16.84	0
				64	35	17.60	17.36	17.81		17.61	16.97	0
				64	69	17.37	17.21	17.80		17.50	17.03	0
				128	0	17.60	17.26	17.62		17.65	16.98	0
			16QAM	1	1	16.81	16.97	17.16		17.21	16.63	0
			64QAM	1	1	17.05	16.69	17.02		17.19	16.91	0
			256QAM	1	1	15.88	15.65	15.99		16.06	15.69	1
		CP	QPSK	1	1	16.97	16.56	16.93		17.07	16.74	0

NR Band n77_ 60 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						648668	653556			658444	663332	
						3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz	
60MHz	30	DFT-s	pi/2 BPSK	1	1	17.05	16.82			17.57	16.77	0
				1	81	17.59	17.15			17.47	16.94	0
				1	160	17.09	17.50			17.49	16.96	0
				81	0	17.41	17.08			17.46	16.78	0
				81	41	17.56	17.10			17.38	16.91	0
				81	81	17.24	17.36			17.60	17.10	0
				162	0	17.47	17.04			17.28	16.90	0
			QPSK	1	1	17.04	16.76			17.58	16.78	0
				1	81	17.57	17.19			17.46	16.96	0
				1	160	17.18	17.44			17.39	16.91	0
				81	0	17.44	17.11			17.57	16.76	0
				81	41	17.65	17.07			17.41	16.94	0
				81	81	17.33	17.35			17.56	17.13	0
				162	0	17.50	17.06			17.32	16.82	0
			16QAM	1	1	17.16	17.00			17.76	16.94	0
			64QAM	1	1	17.16	16.84			17.62	16.98	0
			256QAM	1	1	15.96	15.68			16.41	15.70	1
		CP	QPSK	1	1	17.08	16.74			17.57	16.75	0

NR Band n77_ 70 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						649000	653666			658334	663000	
						3735 MHz	3804.99 MHz			3875.01 MHz	3945 MHz	
70MHz	30	DFT-s	pi/2 BPSK	1	1	17.01	16.85			17.64	16.95	0
				1	95	17.41	17.20			17.52	16.81	0
				1	187	17.12	17.55			17.51	17.12	0
				90	0	17.23	17.05			17.50	16.82	0
				90	50	17.31	17.15			17.40	16.80	0
				90	99	17.23	17.46			17.58	17.13	0
				180	0	17.24	17.02			17.34	16.73	0
			QPSK	1	1	16.93	16.74			17.57	16.89	0
				1	95	17.41	17.11			17.48	16.83	0
				1	187	17.10	17.55			17.51	17.14	0
				90	0	17.26	17.10			17.44	16.81	0
				90	50	17.42	17.17			17.43	16.77	0
				90	99	17.28	17.51			17.62	17.14	0
				180	0	17.28	17.11			17.34	16.72	0
			16QAM	1	1	17.15	16.90			17.76	17.10	0
			64QAM	1	1	16.97	16.92			17.65	17.05	0
			256QAM	1	1	15.86	15.75			16.42	15.76	1
		CP	QPSK	1	1	16.92	16.68			17.52	16.83	0

NR Band n77_ 80 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						649334		656000		662666		
						3740.01 MHz		3840 MHz		3939.99 MHz		
80MHz	30	DFT-s	pi/2 BPSK	1	1	17.14		17.00		17.33		0
				1	109	17.30		17.80		16.82		0
				1	215	17.47		17.36		17.10		0
				108	0	17.36		17.11		16.93		0
				108	55	17.33		17.75		16.77		0
				108	109	16.98		17.52		17.13		0
				216	0	17.27		17.42		16.74		0
			QPSK	1	1	17.15		16.99		17.27		0
				1	109	17.43		17.77		16.77		0
				1	215	17.49		17.24		17.06		0
				108	0	17.41		17.06		17.02		0
				108	55	17.31		17.78		16.76		0
				108	109	16.96		17.57		17.08		0
				216	0	17.22		17.39		16.77		0
			16QAM	1	1	17.20		16.78		17.39		0
			64QAM	1	1	17.17		16.68		17.28		0
			256QAM	1	1	16.03		15.47		16.17		1
		CP	QPSK	1	1	17.05		16.49		17.23		0

NR Band n77_ 90 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						649668		656000		662332		
						3745.02 MHz		3840 MHz		3934.98 MHz		
90MHz	30	DFT-s	pi/2 BPSK	1	1	17.26		16.84		17.54		0
				1	123	17.25		17.91		17.02		0
				1	243	17.58		17.51		17.19		0
				120	0	17.25		17.02		17.30		0
				120	63	17.24		17.82		16.96		0
				120	125	17.11		17.54		17.13		0
				243	0	17.20		17.31		16.90		0
			QPSK	1	1	17.27		16.78		17.53		0
				1	123	17.25		17.82		17.07		0
				1	243	17.52		17.56		17.15		0
				120	0	17.33		16.99		17.35		0
				120	63	17.28		17.84		16.95		0
				120	125	17.09		17.52		17.06		0
				243	0	17.23		17.40		16.88		0
			16QAM	1	1	17.55		16.82		17.63		0
			64QAM	1	1	17.27		16.79		17.56		0
			256QAM	1	1	16.13		15.69		16.42		1
		CP	QPSK	1	1	17.02		16.66		17.51		0

NR Band n77_ 100 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						650000		656000		662000		
						3750 MHz		3840 MHz		3930 MHz		
100MHz	30	DFT-s	pi/2 BPSK	1	1	17.61		17.06		17.58		0
				1	137	17.31		17.90		17.04		0
				1	271	17.71		17.93		17.50		0
				135	0	17.54		16.91		17.33		0
				135	69	17.18		17.82		16.87		0
				135	138	17.14		17.56		17.06		0
				270	0	17.20		17.41		17.08		0
			QPSK	1	1	17.51		17.01		17.57		0
				1	137	17.29		17.86		17.02		0
				1	271	17.61		17.76		17.64		0
				135	0	17.54		16.93		17.31		0
				135	69	17.23		17.85		16.95		0
				135	138	17.17		17.55		17.07		0
				270	0	17.21		17.40		17.06		0
			16QAM	1	1	17.64		17.12		17.94		0
			64QAM	1	1	17.55		17.00		17.56		0
			256QAM	1	1	16.44		15.94		16.52		1
		CP	QPSK	1	1	17.44		17.05		17.56		0

[NR Band n77 Conducted Power] For Body-worn/Hotspot/Phablet SAR Configurations

NR Band n77_ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						647000	650600	654200	657800	661400	665000	
						3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz	
10MHz	30	DFT-s	pi/2 BPSK	1	1	17.38	17.25	17.26	17.73	17.33	16.94	0
				1	12	17.47	16.98	17.42	17.49	17.31	17.00	0
				1	22	17.55	17.05	17.49	17.57	17.22	17.03	0
				12	0	17.35	17.24	17.22	17.67	17.27	16.92	0
				12	6	17.42	16.97	17.39	17.55	17.27	17.00	0
				12	12	17.48	17.00	17.44	17.54	17.23	17.01	0
				24	0	17.45	16.96	17.37	17.52	17.27	17.02	0
			QPSK	1	1	17.37	17.21	17.27	17.73	17.32	16.93	0
				1	12	17.47	16.92	17.40	17.58	17.30	16.99	0
				1	22	17.48	17.00	17.45	17.57	17.24	16.98	0
				12	0	17.37	17.25	17.25	17.69	17.29	16.94	0
				12	6	17.47	16.98	17.38	17.53	17.29	17.04	0
				12	12	17.51	17.02	17.47	17.56	17.26	17.03	0
				24	0	17.48	17.00	17.37	17.57	17.28	17.02	0
			16QAM	1	1	17.54	17.49	17.38	17.80	17.18	16.73	0
			64QAM	1	1	17.38	17.27	17.25	17.73	17.38	17.06	0
			256QAM	1	1	16.21	16.21	16.14	16.61	16.18	15.84	1
		CP	QPSK	1	1	17.24	17.15	17.15	17.59	17.21	16.82	0

NR Band n77_ 15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						647168	650700	654232	657766	661300	664832	
						3707.52 MHz	3760.5 MHz	3813.49 MHz	3866.5 MHz	3919.5 MHz	3972.48 MHz	
15MHz	30	DFT-s	pi/2 BPSK	1	1	17.34	17.09	17.10	17.65	17.34	17.07	0
				1	18	17.43	16.81	17.27	17.58	17.19	16.97	0
				1	36	17.56	16.98	17.48	17.52	17.16	17.04	0
				18	0	17.33	17.09	17.15	17.62	17.28	17.03	0
				18	9	17.45	16.85	17.31	17.64	17.20	17.00	0
				18	18	17.48	16.86	17.40	17.48	17.21	17.07	0
				36	0	17.42	16.83	17.29	17.60	17.19	17.04	0
			QPSK	1	1	17.29	17.09	17.09	17.61	17.29	17.02	0
				1	18	17.41	16.84	17.26	17.57	17.14	16.97	0
				1	36	17.51	16.93	17.43	17.46	17.11	17.00	0
				18	0	17.33	17.11	17.16	17.66	17.29	17.07	0
				18	9	17.46	16.87	17.30	17.64	17.23	17.03	0
				18	18	17.49	16.89	17.37	17.50	17.21	17.06	0
				36	0	17.43	16.86	17.30	17.63	17.22	17.01	0
			16QAM	1	1	17.36	17.03	17.16	17.85	17.42	17.17	0
			64QAM	1	1	17.40	17.18	17.19	17.70	17.40	17.17	0
			256QAM	1	1	16.18	15.97	16.02	16.57	16.22	15.95	1
		CP	QPSK	1	1	17.20	17.06	17.07	17.48	17.24	16.97	0

NR Band n77_ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						647334	650800	654266	657734	661200	664666	
						3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99MHz	
20MHz	30	DFT-s	pi/2 BPSK	1	1	17.32	17.19	17.07	17.58	17.29	17.00	0
				1	26	17.51	16.97	17.35	17.64	17.25	16.99	0
				1	49	17.56	17.06	17.56	17.50	17.14	16.99	0
				25	0	17.39	17.17	17.19	17.65	17.29	17.00	0
				25	13	17.49	16.95	17.34	17.62	17.21	16.99	0
				25	26	17.52	16.99	17.48	17.47	17.19	16.94	0
				50	0	17.47	16.94	17.32	17.61	17.25	16.98	0
			QPSK	1	1	17.25	17.18	17.08	17.61	17.30	16.97	0
				1	26	17.47	16.97	17.35	17.64	17.23	16.98	0
				1	49	17.52	17.06	17.55	17.47	17.11	16.98	0
				25	0	17.38	17.19	17.18	17.67	17.29	17.03	0
				25	13	17.48	16.98	17.35	17.62	17.23	17.02	0
				25	26	17.55	17.00	17.45	17.49	17.16	16.97	0
				50	0	17.47	16.95	17.34	17.63	17.20	17.00	0
			16QAM	1	1	17.63	17.48	17.11	17.67	17.42	17.39	0
			64QAM	1	1	17.28	17.15	17.05	17.56	17.26	17.04	0
			256QAM	1	1	16.13	16.02	15.97	16.45	16.21	15.90	1
		CP	QPSK	1	1	17.23	17.03	16.91	17.61	17.36	16.87	0

NR Band n77_ 25 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						647500	650900	654300	657700	661100	664500	
						3712.5 MHz	3763.5 MHz	3814.5 MHz	3865.5 MHz	3916.5 MHz	3967.5 MHz	
25MHz	30	DFT-s	pi/2 BPSK	1	1	17.32	17.19	17.09	17.59	17.33	16.80	0
				1	32	17.55	16.98	17.39	17.58	17.27	16.98	0
				1	63	17.65	17.05	17.60	17.46	17.11	17.05	0
				32	0	17.43	17.19	17.16	17.64	17.28	17.02	0
				32	17	17.53	16.98	17.37	17.63	17.25	17.04	0
				32	33	17.52	17.02	17.49	17.49	17.19	16.98	0
				64	0	17.48	16.97	17.34	17.64	17.24	17.02	0
			QPSK	1	1	17.26	17.17	17.06	17.61	17.32	16.79	0
				1	32	17.50	17.03	17.32	17.62	17.26	17.00	0
				1	63	17.61	17.05	17.57	17.46	17.14	16.99	0
				32	0	17.44	17.18	17.16	17.66	17.31	17.03	0
				32	17	17.55	17.01	17.37	17.67	17.26	17.05	0
				32	33	17.54	17.06	17.52	17.51	17.21	16.98	0
				64	0	17.50	16.94	17.34	17.62	17.26	17.03	0
			16QAM	1	1	17.46	17.41	17.12	17.71	17.18	17.04	0
			64QAM	1	1	17.34	17.17	17.05	17.61	17.37	16.85	0
			256QAM	1	1	16.20	16.11	16.01	16.51	16.17	15.71	1
		CP	QPSK	1	1	17.20	17.09	16.97	17.65	17.23	16.74	0

NR Band n77_ 30 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						647668	651000	654334	657666	661000	664332	
						3715.02 MHz	3765 MHz	3815.01 MHz	3864.99 MHz	3915 MHz	3964.98 MHz	
30MHz	30	DFT-s	pi/2 BPSK	1	1	17.14	17.01	16.89	17.78	17.39	16.91	0
				1	39	17.47	16.94	17.31	17.77	17.36	17.17	0
				1	76	17.59	17.35	17.63	17.46	17.11	16.99	0
				36	0	17.32	17.03	16.99	17.80	17.28	17.14	0
				36	21	17.49	16.94	17.29	17.76	17.28	17.14	0
				36	42	17.49	17.04	17.49	17.54	17.20	17.02	0
				75	0	17.47	16.88	17.24	17.76	17.27	17.11	0
			QPSK	1	1	17.10	16.97	16.87	17.76	17.33	16.89	0
				1	39	17.47	16.94	17.33	17.77	17.34	17.14	0
				1	76	17.51	17.35	17.64	17.42	17.13	17.01	0
				36	0	17.36	17.07	17.02	17.79	17.32	17.16	0
				36	21	17.52	16.94	17.32	17.76	17.32	17.16	0
				36	42	17.48	17.02	17.54	17.53	17.20	17.02	0
				75	0	17.49	16.91	17.24	17.71	17.28	17.13	0
			16QAM	1	1	17.20	17.12	17.02	17.98	17.23	16.97	0
			64QAM	1	1	17.16	17.02	16.92	17.84	17.45	16.95	0
			256QAM	1	1	16.02	15.84	15.74	16.68	16.25	15.77	1
		CP	QPSK	1	1	17.00	16.87	16.78	17.74	17.27	16.80	0

NR Band n77_40 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						648000	651200	654400	657600	660800	664000	
						3720 MHz	3768 MHz	3816 MHz	3864 MHz	3912 MHz	3960 MHz	
40MHz	30	DFT-s	pi/2 BPSK	1	1	17.19	16.98	16.83	17.87	17.39	16.63	0
				1	53	17.65	17.04	17.42	17.75	17.52	17.12	0
				1	104	17.29	17.20	17.65	17.44	16.90	17.00	0
				50	0	17.43	17.03	16.95	17.78	17.52	16.87	0
				50	28	17.56	16.98	17.32	17.75	17.42	17.13	0
				50	56	17.58	17.35	17.59	17.49	17.20	17.03	0
				100	0	17.51	16.93	17.26	17.70	17.38	17.07	0
			QPSK	1	1	17.12	16.98	16.79	17.86	17.32	16.69	0
				1	53	17.50	17.05	17.39	17.79	17.41	17.16	0
				1	104	17.20	17.16	17.59	17.45	16.89	16.99	0
				50	0	17.46	17.06	16.93	17.81	17.54	16.86	0
				50	28	17.56	17.01	17.35	17.77	17.46	17.15	0
				50	56	17.58	17.34	17.59	17.52	17.19	17.07	0
				100	0	17.52	16.96	17.23	17.70	17.39	17.12	0
			16QAM	1	1	17.27	17.02	16.87	17.97	17.54	16.94	0
			64QAM	1	1	17.08	16.98	16.88	17.95	17.47	16.67	0
			256QAM	1	1	16.04	15.93	15.66	16.77	16.29	15.55	1
		CP	QPSK	1	1	17.01	16.87	16.71	17.75	17.28	16.66	0

NR Band n77_ 50 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						648334	652166	656000		659834	663666	
						3725.01 MHz	3782.49 MHz	3840 MHz		3897.51 MHz	3954.99 MHz	
50MHz	30	DFT-s	pi/2 BPSK	1	1	17.03	16.68	17.10		17.15	16.80	0
				1	67	17.63	17.40	17.81		17.67	17.04	0
				1	131	17.22	17.05	17.67		17.17	16.93	0
				64	0	17.33	16.94	17.48		17.42	16.80	0
				64	35	17.62	17.32	17.73		17.63	16.99	0
				64	69	17.34	17.19	17.82		17.45	17.06	0
				128	0	17.57	17.27	17.61		17.59	16.95	0
			QPSK	1	1	17.05	16.73	17.12		17.14	16.80	0
				1	67	17.69	17.40	17.78		17.64	16.99	0
				1	131	17.26	17.08	17.66		17.18	16.89	0
				64	0	17.36	16.95	17.49		17.43	16.84	0
				64	35	17.61	17.37	17.81		17.67	17.04	0
				64	69	17.37	17.20	17.82		17.50	17.08	0
				128	0	17.58	17.29	17.65		17.62	16.95	0
			16QAM	1	1	16.80	17.02	17.19		17.28	16.61	0
			64QAM	1	1	17.06	16.69	17.08		17.23	16.88	0
			256QAM	1	1	15.92	15.66	15.97		16.08	15.68	1
		CP	QPSK	1	1	16.95	16.59	16.98		17.13	16.73	0

NR Band n77_60 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						648668	653556			658444	663332	
						3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz	
60MHz	30	DFT-s	pi/2 BPSK	1	1	17.07	16.84			17.59	16.83	0
				1	81	17.63	17.17			17.44	16.99	0
				1	160	17.11	17.57			17.53	16.96	0
				81	0	17.43	17.07			17.49	16.76	0
				81	41	17.61	17.15			17.42	16.91	0
				81	81	17.30	17.41			17.59	17.08	0
				162	0	17.52	17.05			17.35	16.87	0
			QPSK	1	1	17.10	16.79			17.57	16.82	0
				1	81	17.63	17.21			17.43	16.97	0
				1	160	17.19	17.46			17.46	16.94	0
				81	0	17.45	17.09			17.55	16.78	0
				81	41	17.63	17.14			17.43	16.94	0
				81	81	17.31	17.42			17.59	17.10	0
				162	0	17.57	17.07			17.35	16.87	0
			16QAM	1	1	17.21	17.01			17.77	16.95	0
			64QAM	1	1	17.14	16.87			17.69	16.96	0
			256QAM	1	1	15.98	15.70			16.47	15.76	1
		CP	QPSK	1	1	17.05	16.75			17.55	16.79	0

NR Band n77_70 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						649000	653666			658334	663000	
						3735 MHz	3804.99 MHz			3875.01 MHz	3945 MHz	
70MHz	30	DFT-s	pi/2 BPSK	1	1	17.00	16.82			17.64	16.96	0
				1	95	17.39	17.19			17.49	16.88	0
				1	187	17.12	17.61			17.55	17.13	0
				90	0	17.29	17.07			17.48	16.81	0
				90	50	17.35	17.14			17.42	16.82	0
				90	99	17.27	17.49			17.59	17.13	0
				180	0	17.30	17.06			17.34	16.74	0
			QPSK	1	1	16.97	16.78			17.60	16.92	0
				1	95	17.40	17.14			17.46	16.87	0
				1	187	17.07	17.52			17.53	17.11	0
				90	0	17.32	17.09			17.48	16.83	0
				90	50	17.39	17.16			17.45	16.84	0
				90	99	17.28	17.50			17.62	17.14	0
				180	0	17.29	17.08			17.37	16.74	0
			16QAM	1	1	17.12	16.91			17.76	17.08	0
			64QAM	1	1	17.03	16.92			17.69	17.04	0
			256QAM	1	1	15.90	15.72			16.49	15.83	1
		CP	QPSK	1	1	16.92	16.68			17.50	16.84	0

NR Band n77_ 80 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						649334		656000		662666		
						3740.01 MHz		3840 MHz		3939.99 MHz		
80MHz	30	DFT-s	pi/2 BPSK	1	1	17.17		17.03		17.33		0
				1	109	17.36		17.87		16.86		0
				1	215	17.46		17.34		17.14		0
				108	0	17.41		17.08		16.97		0
				108	55	17.31		17.79		16.80		0
				108	109	16.95		17.55		17.11		0
				216	0	17.24		17.39		16.72		0
			QPSK	1	1	17.20		17.04		17.31		0
				1	109	17.40		17.83		16.84		0
				1	215	17.48		17.30		17.13		0
				108	0	17.42		17.09		16.99		0
				108	55	17.31		17.82		16.79		0
				108	109	16.96		17.57		17.11		0
				216	0	17.26		17.40		16.74		0
			16QAM	1	1	17.27		16.79		17.45		0
			64QAM	1	1	17.17		16.73		17.32		0
			256QAM	1	1	16.10		15.51		16.18		1
		CP	QPSK	1	1	17.10		16.56		17.20		0

NR Band n77_ 90 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						649668		656000		662332		
						3745.02 MHz		3840 MHz		3934.98 MHz		
90MHz	30	DFT-s	pi/2 BPSK	1	1	17.24		16.81		17.56		0
				1	123	17.30		17.92		17.02		0
				1	243	17.58		17.58		17.21		0
				120	0	17.28		17.00		17.30		0
				120	63	17.23		17.82		16.95		0
				120	125	17.09		17.57		17.10		0
				243	0	17.21		17.38		16.90		0
			QPSK	1	1	17.24		16.76		17.55		0
				1	123	17.32		17.86		17.04		0
				1	243	17.57		17.58		17.19		0
				120	0	17.31		17.04		17.34		0
				120	63	17.25		17.81		16.96		0
				120	125	17.09		17.56		17.12		0
				243	0	17.20		17.39		16.93		0
			16QAM	1	1	17.61		16.87		17.65		0
			64QAM	1	1	17.28		16.86		17.62		0
			256QAM	1	1	16.13		15.66		16.47		1
		CP	QPSK	1	1	17.09		16.65		17.58		0

NR Band n77_ 100 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Receiver On Power (dBm)						MPR [dB]
						650000		656000		662000		
						3750 MHz		3840 MHz		3930 MHz		
100MHz	30	DFT-s	pi/2 BPSK	1	1	17.58		17.07		17.60		0
				1	137	17.37		17.90		17.02		0
				1	271	17.69		17.92		17.55		0
				135	0	17.54		16.96		17.33		0
				135	69	17.24		17.80		16.93		0
				135	138	17.17		17.56		17.07		0
				270	0	17.23		17.41		17.08		0
			QPSK	1	1	17.57		17.06		17.61		0
				1	137	17.35		17.85		17.05		0
				1	271	17.65		17.88		17.58		0
				135	0	17.28		16.99		17.04		0
				135	69	17.57		17.82		17.34		0
				135	138	17.19		17.55		17.05		0
				270	0	17.25		17.43		17.06		0
			16QAM	1	1	17.67		17.16		17.97		0
			64QAM	1	1	17.59		17.06		17.61		0
			256QAM	1	1	16.42		15.95		16.49		1
		CP	QPSK	1	1	17.43		17.09		17.51		0

[NR Band n77 DoD Conducted Power] For Head SAR Configuration

NR Band n77 _10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						630336	633334	636332	
						3455.04MHz	3500.01MHz	3544.98 MHz	
10MHz	30	DFT-s	pi/2 BPSK	1	1	17.38	17.85	17.90	0
				1	12	17.47	17.76	17.97	0
				1	22	17.48	17.90	17.94	0
				12	0	17.33	17.79	17.83	0
				12	6	17.42	17.80	17.96	0
				12	12	17.42	17.85	17.95	0
				24	0	17.41	17.75	17.96	0
			QPSK	1	1	17.30	17.73	17.80	0
				1	12	17.30	17.76	17.92	0
				1	22	17.39	17.81	17.95	0
				12	0	17.36	17.82	17.81	0
				12	6	17.38	17.82	17.93	0
				12	12	17.38	17.83	17.99	0
				24	0	17.35	17.78	17.96	0
			16QAM	1	1	17.41	17.84	17.89	0
			64QAM	1	1	17.49	17.85	17.94	0
			256QAM	1	1	16.15	16.67	16.74	1
		CP	QPSK	1	1	17.27	17.69	17.72	0

NR Band n77_15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						630502	633334	636166	
						3457.53 MHz	3500.01MHz	3542.49 MHz	
15MHz	30	DFT-s	pi/2 BPSK	1	1	17.33	17.70	17.80	0
				1	18	17.48	17.71	17.73	0
				1	36	17.49	17.93	17.91	0
				18	0	17.43	17.79	17.77	0
				18	9	17.49	17.80	17.79	0
				18	18	17.50	17.78	17.83	0
				36	0	17.39	17.77	17.78	0
			QPSK	1	1	17.43	17.74	17.77	0
				1	18	17.45	17.73	17.74	0
				1	36	17.57	17.89	17.81	0
				18	0	17.37	17.76	17.81	0
				18	9	17.44	17.76	17.77	0
				18	18	17.49	17.79	17.92	0
				36	0	17.47	17.75	17.80	0
			16QAM	1	1	17.43	17.78	17.91	0
			64QAM	1	1	17.45	17.72	17.78	0
			256QAM	1	1	16.25	16.59	16.72	1
		CP	QPSK	1	1	17.33	17.71	17.76	0

NR Band n77 _20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						630668	633334	636000	
						3460.02MHz	3500.01MHz	3540MHz	
20MHz	30	DFT-s	pi/2 BPSK	1	1	17.39	17.68	17.71	0
				1	26	17.57	17.77	17.84	0
				1	49	17.63	17.93	17.83	0
				25	0	17.48	17.78	17.72	0
				25	13	17.54	17.82	17.79	0
				25	26	17.54	17.83	17.88	0
				50	0	17.52	17.80	17.81	0
			QPSK	1	1	17.44	17.55	17.62	0
				1	26	17.51	17.74	17.70	0
				1	49	17.66	17.89	17.76	0
				25	0	17.50	17.74	17.81	0
				25	13	17.56	17.79	17.81	0
				25	26	17.61	17.86	17.86	0
				50	0	17.55	17.74	17.78	0
			16QAM	1	1	17.37	17.73	17.91	0
			64QAM	1	1	17.47	17.71	17.67	0
			256QAM	1	1	16.31	16.60	16.56	1
		CP	QPSK	1	1	17.29	17.50	17.49	0

NR Band n77 _25 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						630834	633334	635834	
						3462.51MHz	3500.01MHz	3537.51MHz	
25MHz	30	DFT-s	pi/2 BPSK	1	1	17.47	17.61	17.58	0
				1	32	17.59	17.76	17.73	0
				1	63	17.72	17.86	17.80	0
				32	0	17.47	17.74	17.59	0
				32	17	17.56	17.79	17.76	0
				32	33	17.64	17.88	17.82	0
				64	0	17.56	17.74	17.72	0
			QPSK	1	1	17.41	17.57	17.60	0
				1	32	17.60	17.80	17.72	0
				1	63	17.65	17.90	17.70	0
				32	0	17.49	17.74	17.63	0
				32	17	17.65	17.75	17.75	0
				32	33	17.69	17.85	17.82	0
				64	0	17.56	17.74	17.72	0
			16QAM	1	1	17.48	17.61	17.62	0
			64QAM	1	1	17.55	17.68	17.60	0
			256QAM	1	1	16.31	16.54	16.47	1
		CP	QPSK	1	1	17.33	17.51	17.47	0

NR Band n77 _30 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						631000	633334	635666	
						3465MHz	3500.01MHz	3534.99MHz	
30MHz	30	DFT-s	pi/2 BPSK	1	1	17.20	17.50	17.70	0
				1	39	17.49	17.83	17.87	0
				1	76	17.69	17.92	17.88	0
				36	0	17.35	17.69	17.82	0
				36	21	17.44	17.77	17.92	0
				36	42	17.47	17.94	17.86	0
				75	0	17.45	17.76	17.89	0
			QPSK	1	1	17.22	17.48	17.65	0
				1	39	17.47	17.79	17.92	0
				1	76	17.65	17.86	17.81	0
				36	0	17.30	17.66	17.80	0
				36	21	17.54	17.81	17.99	0
				36	42	17.51	17.90	17.87	0
				75	0	17.39	17.75	17.93	0
			16QAM	1	1	17.39	17.48	17.79	0
			64QAM	1	1	17.15	17.64	17.67	0
			256QAM	1	1	16.17	16.40	16.62	1
		CP	QPSK	1	1	17.17	17.43	17.59	0

NR Band n77 _40 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						631334		635332	
						3470.01MHz		3529.98 MHz	
40MHz	30	DFT-s	pi/2 BPSK	1	1	17.21		17.34	0
				1	53	17.66		17.70	0
				1	104	17.73		17.79	0
				50	0	17.47		17.64	0
				50	28	17.66		17.73	0
				50	56	17.85		17.72	0
				100	0	17.57		17.66	0
			QPSK	1	1	17.19		17.44	0
				1	53	17.58		17.80	0
				1	104	17.94		17.76	0
				50	0	17.47		17.57	0
				50	28	17.66		17.80	0
				50	56	17.89		17.81	0
				100	0	17.55		17.77	0
			16QAM	1	1	17.36		17.55	0
			64QAM	1	1	17.33		17.33	0
			256QAM	1	1	16.18		16.32	1
		CP	QPSK	1	1	17.17		17.35	0

NR Band n77 _50 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						631668		635000	
						3475.02MHz		3525MHz	
50MHz	30	DFT-s	pi/2 BPSK	1	1	17.17		17.11	0
				1	67	17.63		17.62	0
				1	131	17.65		17.64	0
				64	0	17.30		17.37	0
				64	35	17.56		17.62	0
				64	69	17.98		17.66	0
				128	0	17.54		17.58	0
			QPSK	1	1	17.13		17.01	0
				1	67	17.62		17.65	0
				1	131	17.95		17.68	0
				64	0	17.35		17.33	0
				64	35	17.58		17.67	0
				64	69	17.94		17.71	0
				128	0	17.49		17.53	0
			16QAM	1	1	17.12		17.23	0
			64QAM	1	1	17.21		17.15	0
			256QAM	1	1	16.02		15.97	1
		CP	QPSK	1	1	17.03		17.01	0

NR Band n77 _60 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							633334		
							3500.01MHz		
60MHz	30	DFT-s	pi/2 BPSK	1	1		16.89		0
				1	81		17.81		0
				1	160		17.93		0
				81	0		17.46		0
				81	41		17.77		0
				81	81		17.91		0
				162	0		17.72		0
			QPSK	1	1		16.89		0
				1	81		17.87		0
				1	160		17.86		0
				81	0		17.53		0
				81	41		17.82		0
				81	81		17.92		0
				162	0		17.74		0
			16QAM	1	1		16.88		0
			64QAM	1	1		17.02		0
			256QAM	1	1		15.86		1
		CP	QPSK	1	1		16.80		0

NR Band n77 _70 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							633334		
							3500.01MHz		
70MHz	30	DFT-s	pi/2 BPSK	1	1		16.87		0
				1	95		17.75		0
				1	187		17.76		0
				90	0		17.38		0
				90	50		17.77		0
				90	99		17.99		0
				180	0		17.64		0
			QPSK	1	1		16.90		0
				1	95		17.78		0
				1	187		17.94		0
				90	0		17.34		0
				90	50		17.80		0
				90	99		17.96		0
				180	0		17.72		0
			16QAM	1	1		16.96		0
			64QAM	1	1		16.97		0
			256QAM	1	1		15.81		1
		CP	QPSK	1	1		16.84		0

NR Band n77 _80 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							633334		
							3500.01MHz		
80MHz	30	DFT-s	pi/2 BPSK	1	1		16.85		0
				1	109		17.85		0
				1	215		17.78		0
				108	0		17.26		0
				108	55		17.81		0
				108	109		17.97		0
				216	0		17.74		0
			QPSK	1	1		16.87		0
				1	109		17.85		0
				1	215		17.79		0
				108	0		17.29		0
				108	55		17.78		0
				108	109		17.96		0
				216	0		17.66		0
			16QAM	1	1		16.98		0
			64QAM	1	1		16.92		0
			256QAM	1	1		15.83		1
		CP	QPSK	1	1		16.81		0

NR Band n77 _90 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							633334		
							3500.01MHz		
90MHz	30	DFT-s	pi/2 BPSK	1	1		17.02		0
				1	123		17.83		0
				1	243		17.90		0
				120	0		17.22		0
				120	63		17.75		0
				120	125		17.98		0
				243	0		17.72		0
			QPSK	1	1		16.97		0
				1	123		17.81		0
				1	243		17.89		0
				120	0		17.17		0
				120	63		17.79		0
				120	125		17.91		0
				243	0		17.65		0
			16QAM	1	1		17.19		0
			64QAM	1	1		17.06		0
			256QAM	1	1		15.90		1
		CP	QPSK	1	1		16.84		0

NR Band n77_100 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							633334		
							3500.01MHz		
100MHz	30	DFT-s	pi/2 BPSK	1	1		17.14		0
				1	137		17.79		0
				1	271		17.69		0
				135	0		17.13		0
				135	69		17.68		0
				135	138		17.82		0
				270	0		17.67		0
			QPSK	1	1		17.15		0
				1	137		17.83		0
				1	271		17.90		0
				135	0		17.14		0
				135	69		17.74		0
				135	138		17.85		0
				270	0		17.72		0
			16QAM	1	1		17.39		0
			64QAM	1	1		17.20		0
			256QAM	1	1		16.09		1
		CP	QPSK	1	1		17.12		0

[NR Band n77 DOD Conducted Power] For Body-worn/Hotspot/Phablet SAR Configurations

NR Band n77 _10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						630336	633334	636332	
						3455.04MHz	3500.01MHz	3544.98 MHz	
10MHz	30	DFT-s	pi/2 BPSK	1	1	17.35	17.82	17.86	0
				1	12	17.44	17.74	17.95	0
				1	22	17.44	17.88	17.94	0
				12	0	17.34	17.79	17.81	0
				12	6	**17.38**	17.78	17.93	0
				12	12	**17.42**	17.82	17.93	0
				24	0	17.38	17.77	17.91	0
			QPSK	1	1	17.31	17.74	17.83	0
				1	12	17.33	17.79	17.88	0
				1	22	17.39	17.81	17.91	0
				12	0	17.37	17.83	17.83	0
				12	6	**17.39**	17.80	17.94	0
				12	12	**17.40**	17.81	17.95	0
				24	0	17.38	17.76	17.97	0
			16QAM	1	1	17.40	17.81	17.89	0
			64QAM	1	1	17.44	17.86	17.89	0
			256QAM	1	1	16.17	16.70	16.74	1
		CP	QPSK	1	1	17.27	17.68	17.70	0

NR Band n77_15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						630502	633334	636166	
						3457.53 MHz	3500.01MHz	3542.49 MHz	
15MHz	30	DFT-s	pi/2 BPSK	1	1	17.36	17.72	17.83	0
				1	18	17.44	17.73	17.76	0
				1	36	17.51	17.88	17.86	0
				18	0	17.39	17.76	17.76	0
				18	9	**17.44**	17.75	17.80	0
				18	18	**17.45**	17.80	17.86	0
				36	0	17.39	17.75	17.79	0
			QPSK	1	1	17.40	17.72	17.78	0
				1	18	17.42	17.72	17.77	0
				1	36	17.55	17.86	17.84	0
				18	0	17.38	17.77	17.80	0
				18	9	**17.39**	17.76	17.77	0
				18	18	**17.47**	17.80	17.89	0
				36	0	17.43	17.77	17.79	0
			16QAM	1	1	17.42	17.80	17.92	0
			64QAM	1	1	17.40	17.69	17.75	0
			256QAM	1	1	16.28	16.60	16.69	1
		CP	QPSK	1	1	17.35	17.67	17.73	0

NR Band n77 _20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						630668	633334	636000	
						3460.02MHz	3500.01MHz	3540MHz	
20MHz	30	DFT-s	pi/2 BPSK	1	1	17.39	17.63	17.66	0
				1	26	17.52	17.74	17.81	0
				1	49	17.63	17.91	17.84	0
				25	0	17.44	17.75	17.74	0
				25	13	17.51	17.77	17.77	0
				25	26	17.57	17.83	17.86	0
				50	0	17.49	17.75	17.76	0
			QPSK	1	1	17.39	17.58	17.63	0
				1	26	17.50	17.73	17.73	0
				1	49	17.61	17.87	17.79	0
				25	0	17.46	17.76	17.77	0
				25	13	17.53	17.78	17.79	0
				25	26	17.56	17.87	17.85	0
				50	0	17.53	17.77	17.76	0
			16QAM	1	1	17.37	17.68	17.86	0
			64QAM	1	1	17.46	17.73	17.70	0
			256QAM	1	1	16.30	16.58	16.59	1
		CP	QPSK	1	1	17.26	17.53	17.49	0

NR Band n77 _25 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						630834	633334	635834	
						3462.51MHz	3500.01MHz	3537.51MHz	
25MHz	30	DFT-s	pi/2 BPSK	1	1	17.43	17.61	17.56	0
				1	32	17.62	17.76	17.74	0
				1	63	17.68	17.87	17.76	0
				32	0	17.48	17.70	17.59	0
				32	17	17.57	17.76	17.73	0
				32	33	17.64	17.84	17.79	0
				64	0	17.57	17.73	17.71	0
			QPSK	1	1	17.38	17.54	17.55	0
				1	32	17.57	17.75	17.74	0
				1	63	17.63	17.87	17.73	0
				32	0	17.50	17.72	17.62	0
				32	17	17.63	17.77	17.75	0
				32	33	17.65	17.87	17.78	0
				64	0	17.56	17.75	17.72	0
			16QAM	1	1	17.44	17.59	17.60	0
			64QAM	1	1	17.54	17.68	17.59	0
			256QAM	1	1	16.32	16.51	16.46	1
		CP	QPSK	1	1	17.30	17.53	17.50	0

NR Band n77 _30 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						631000	633334	635666	
						3465MHz	3500.01MHz	3534.99MHz	
30MHz	30	DFT-s	pi/2 BPSK	1	1	17.22	17.52	17.68	0
				1	39	17.44	17.80	17.90	0
				1	76	17.64	17.90	17.89	0
				36	0	17.30	17.65	17.78	0
				36	21	17.46	17.77	17.91	0
				36	42	17.50	17.93	17.82	0
				75	0	17.45	17.73	17.89	0
			QPSK	1	1	17.24	17.48	17.64	0
				1	39	17.45	17.77	17.92	0
				1	76	17.62	17.82	17.84	0
				36	0	17.33	17.67	17.79	0
				36	21	17.49	17.78	17.94	0
				36	42	17.52	17.89	17.83	0
				75	0	17.41	17.75	17.88	0
			16QAM	1	1	17.35	17.51	17.77	0
			64QAM	1	1	17.18	17.61	17.70	0
			256QAM	1	1	16.17	16.39	16.59	1
		CP	QPSK	1	1	17.20	17.42	17.55	0

NR Band n77 _40 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						631334		635332	
						3470.01MHz		3529.98 MHz	
40MHz	30	DFT-s	pi/2 BPSK	1	1	17.24		17.37	0
				1	53	17.66		17.71	0
				1	104	17.68		17.78	0
				50	0	17.42		17.59	0
				50	28	17.62		17.72	0
				50	56	17.81		17.72	0
				100	0	17.59		17.67	0
			QPSK	1	1	17.20		17.39	0
				1	53	17.61		17.80	0
				1	104	17.97		17.78	0
				50	0	17.43		17.59	0
				50	28	17.64		17.75	0
				50	56	17.84		17.78	0
				100	0	17.58		17.72	0
			16QAM	1	1	17.35		17.50	0
			64QAM	1	1	17.30		17.34	0
			256QAM	1	1	16.16		16.27	1
		CP	QPSK	1	1	17.16		17.30	0

NR Band n77 _50 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
						631668		635000	
						3475.02MHz		3525MHz	
50MHz	30	DFT-s	pi/2 BPSK	1	1	17.12		17.08	0
				1	67	17.59		17.65	0
				1	131	17.64		17.67	0
				64	0	17.33		17.32	0
				64	35	17.54		17.60	0
				64	69	17.95		17.68	0
				128	0	17.50		17.54	0
			QPSK	1	1	17.09		17.02	0
				1	67	17.62		17.62	0
				1	131	17.98		17.64	0
				64	0	17.33		17.32	0
				64	35	17.57		17.63	0
				64	69	17.96		17.69	0
				128	0	17.51		17.54	0
			16QAM	1	1	17.11		17.26	0
			64QAM	1	1	17.19		17.13	0
			256QAM	1	1	16.03		15.99	1
		CP	QPSK	1	1	17.01		17.00	0

NR Band n77 _60 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							633334		
							3500.01MHz		
60MHz	30	DFT-s	pi/2 BPSK	1	1		16.90		0
				1	81		17.76		0
				1	160		17.95		0
				81	0		17.45		0
				81	41		17.76		0
				81	81		17.88		0
				162	0		17.67		0
			QPSK	1	1		16.86		0
				1	81		17.83		0
				1	160		17.89		0
				81	0		17.52		0
				81	41		17.78		0
				81	81		17.90		0
				162	0		17.69		0
			16QAM	1	1		16.90		0
			64QAM	1	1		16.99		0
			256QAM	1	1		15.82		1
		CP	QPSK	1	1		16.83		0

NR Band n77 _70 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							633334		
							3500.01MHz		
70MHz	30	DFT-s	pi/2 BPSK	1	1		16.89		0
				1	95		17.77		0
				1	187		17.75		0
				90	0		17.34		0
				90	50		17.74		0
				90	99		17.96		0
				180	0		17.67		0
			QPSK	1	1		16.91		0
				1	95		17.78		0
				1	187		17.96		0
				90	0		17.36		0
				90	50		17.78		0
				90	99		17.96		0
				180	0		17.69		0
			16QAM	1	1		16.98		0
			64QAM	1	1		16.92		0
			256QAM	1	1		15.79		1
		CP	QPSK	1	1		16.86		0

NR Band n77 _80 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							633334		
							3500.01MHz		
80MHz	30	DFT-s	pi/2 BPSK	1	1		16.88		0
				1	109		17.84		0
				1	215		17.79		0
				108	0		17.29		0
				108	55		17.77		0
				108	109		17.96		0
				216	0		17.69		0
			QPSK	1	1		16.90		0
				1	109		17.84		0
				1	215		17.81		0
				108	0		17.30		0
				108	55		17.76		0
				108	109		17.98		0
				216	0		17.68		0
			16QAM	1	1		16.97		0
			64QAM	1	1		16.89		0
			256QAM	1	1		15.80		1
		CP	QPSK	1	1		16.79		0

NR Band n77 _90 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							633334		
							3500.01MHz		
90MHz	30	DFT-s	pi/2 BPSK	1	1		16.97		0
				1	123		17.84		0
				1	243		17.89		0
				120	0		17.19		0
				120	63		17.73		0
				120	125		17.99		0
				243	0		17.68		0
			QPSK	1	1		16.95		0
				1	123		17.80		0
				1	243		17.87		0
				120	0		17.19		0
				120	63		17.74		0
				120	125		17.99		0
				243	0		17.68		0
			16QAM	1	1		17.19		0
			64QAM	1	1		17.01		0
			256QAM	1	1		15.90		1
		CP	QPSK	1	1		16.86		0

NR Band n77_100 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Reduced Power [dBm]			MPR [dB]
							633334		
							3500.01MHz		
100MHz	30	DFT-s	pi/2 BPSK	1	1		17.17		0
				1	137		17.82		0
				1	271		17.69		0
				135	0		17.14		0
				135	69		17.71		0
				135	138		17.85		0
				270	0		17.68		0
			QPSK	1	1		17.17		0
				1	137		17.81		0
				1	271		17.88		0
				135	0		17.14		0
				135	69		17.72		0
				135	138		17.84		0
				270	0		17.73		0
			16QAM	1	1		17.37		0
			64QAM	1	1		17.22		0
			256QAM	1	1		16.09		1
		CP	QPSK	1	1		17.09		0

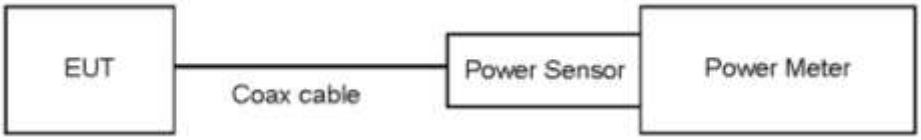
11.5 WIFI Conducted Power measurement method

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

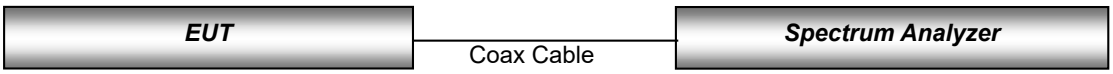


Un-Licensed bands(NII Band)

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
802.11b	2 412	1	20.04
	2 437	6	20.90
	2 462	11	19.90
	2 467	12	5.52
	2 472	13	7.11
802.11g	2 412	1	18.92
	2 437	6	18.54
	2 462	11	17.93
	2 467	12	6.24
	2 472	13	4.83
802.11n (HT20)	2 412	1	19.40
	2 437	6	19.03
	2 462	11	15.66
	2 467	12	4.19
	2 472	13	4.03

11.5.2 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
802.11b	2 412	1	12.74
	2 437	6	12.88
	2 462	11	11.25
802.11g	2 412	1	11.46
	2 437	6	11.16
	2 462	11	10.74
802.11n (HT20)	2 412	1	11.13
	2 437	6	11.68
	2 462	11	11.10

11.5.3 IEEE 802.11 (5 GHz) Maximum Conducted Power

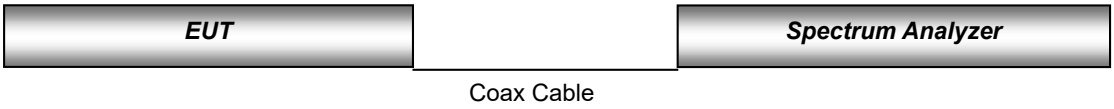
Mode	Frequency [MHz]	Channel	IEEE 802.11 (5 GHz) Average RF Conducted Power [dBm]
			802.11a
(20 MHz BW)	5 180	36	18.83
	5 200	40	18.25
	5 220	44	18.42
	5 240	48	18.13
	5 260	52	18.65
	5 280	56	18.41
	5 300	60	18.70
	5 320	64	18.72
	5 500	100	14.86
	5 600	120	17.39
	5 620	124	17.85
	5 720	144	17.76
	5 745	149	17.59
	5 785	157	17.07
	5 825	165	17.04

11.5.4 IEEE 802.11 (5 GHz) Reduced Conducted Power

Mode	Frequency [MHz]	Channel	IEEE 802.11 (5 GHz) Average RF Conducted Power [dBm]
			802.11ac
(80MHz BW)	5 210	42	10.91
	5 290	58	10.12
	5 530	106	10.73
	5 610	122	10.93
	5 690	138	10.96
	5 775	155	10.79

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



Measurement Results of WLAN Duty cycle for SAR Test

Mode	Data Rate	T_{on} (ms)	T_{total} (ms)	Duty Cycle	Scaling Factor (1/Duty cycle)
802.11b (2.4GHz WLAN)	1Mbps	8.609	8.714	0.988	1.012
802.11a_20Mhz(5GHz Max)	6Mbps	1.430	1.550	0.923	1.084
802.11ac_80MHz(5GHz Rcv-On)	MCS0	0.611	0.719	0.850	1.177

11.6. Bluetooth Conducted Power

11.6.1 Bluetooth Maximum Conducted Power

The Burst averaged-conducted power

Mode	Channel	Bluetooth Power [dBm]
DH5	0	16.11
	39	16.35
	78	15.43
2-DH5	0	11.17
	39	11.84
	78	11.25
3-DH5	0	11.16
	39	11.82
	78	11.23

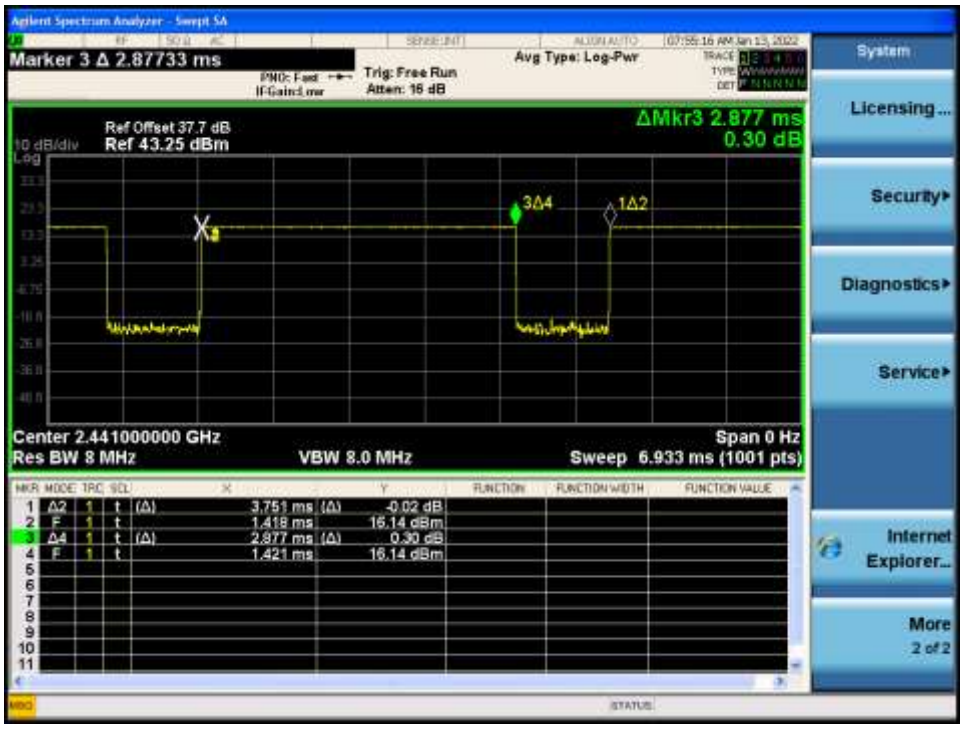
11.6.2 Bluetooth Reduced Conducted Power (RCV-ON)

Mode	Channel	Bluetooth Power [dBm]
DH5	0	7.03
	39	8.12
	78	7.31
2-DH5	0	1.95
	39	3.33
	78	2.45
3-DH5	0	1.94
	39	3.32
	78	2.46

Mode	Datarate	Packet	Channel	Bluetooth Power [dBm]
LE	1M	37	0	4.76
			39	5.42
			78	4.65
		255	0	4.78
			39	5.45
			78	4.81
	2M	37	0	4.49
			39	5.41
			78	4.42
		255	0	4.53
			39	5.51
			78	4.53
	125K	37	0	4.81
			39	5.74
			78	4.81
		255	0	4.76
			39	5.7
			78	4.61
	500K	37	0	4.61
			39	5.67

			78	4.68
		255	0	4.6
			39	5.64
			78	4.72

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

= (BT-On time /BT-Full time) =(2.877/3.751) = 0.767 (DH5)

Duty factor= 1/Duty cycle : 1.304