TEST REPORT

FCC SAR Test for TM18FNROBM0
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-SR-2507-FC013-R2

DATE OF ISSUE
July 30, 2025

Tested by
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TEST REPORT

FCC SAR Test for certification

REPORT NO.
HCT-SR-2507-FC0013-R2

DATE OF ISSUE
July 30, 2025

FCC ID
2BO3LTM18FNROBM0

Applicant	**LG Electronics Inc.** 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
Product Name Model Name	Telematics TM18FNROBM0
Date of Test	Jun. 24, 2025~ Jul. 09, 2025
Location of Test	■ Permanent Testing Lab ☐ On Site Testing Lab (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA)
FCC Rule Part(s)	CFR § 2.1093
Test Results	PASS (SAR Limit : 1.6 W/kg) Refer to the clause 3.2 Attestation of test result

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	Jul. 23, 2025	Initial Release
1	Jul. 29, 2025	Revised Page 18
2	Jul. 30, 2025	Revised Page 8, 9, 15

Notice

Content
The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated. The test results have only been applied with the test methods required by the standard(s). The laboratory is not accredited for the test results marked *. Information provided by the applicant is marked **. Test results provided by external providers are marked ***. When confirmation of authenticity of this test report is required, please contact www.hct.co.kr The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

CONTENTS

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 D05 SAR for LTE Devices v02r05
- FCC KDB Publication 941225 D05A LTE Rel.10 KDB Inquiry sheet v01r02
- FCC KDB Publication 447498 D01 General RF Exposure Guidance v06
- 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 (Overlapping LTE Bands Test exclusion)
- April 2015 TCB Workshop Notes (Simultaneous transmission summation clarified)
- November 2017 TCBC Workshop Notes (LTE Carrier Aggregation)
- April 2018 TCBC Workshop Notes (LTE UL CA, DL CA SAR Test Exclusion)
- November 2019 TCB Workshop Notes (5G NR FR1 NSA EN-DC UE SAR Evaluations)

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
Fax.	031-645-6401

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	TM18FNROBM0
Equipment Type	Telematics
FCC ID	2BO3LTM18FNROBM0
Application Type	Certification
Applicant	LG Electronics Inc.

3.2 Attestation of test result of device under test

The Highest Reported SAR			
Band	Tx. Frequency	Equipment Class	Reported SAR (W/kg) 1 g Body
GPRS/EDGE 850	824.2 ㎒ ~ 848.8 ㎒	PCB	0.35
GPRS/EDGE 1900	1 850.2 ㎒ ~ 1 909.8 ㎒	PCB	0.29
UMTS Band 5	826.4 ㎒ ~ 846.6 ㎒	PCB	0.20
UMTS Band 4	1 712.4 ㎒ ~ 1 752.6 ㎒	PCB	0.24
UMTS Band 2	1 852.4 ㎒ ~ 1 907.6 ㎒	PCB	0.40
LTE FDD Band4 (AWS)	1 710.7 ㎒ ~ 1 754.3 ㎒	PCB	0.21
LTE FDD Band 7	2 502.5 ㎒ ~ 2 567.5 ㎒	PCB	**0.76**
LTE FDD Band 12(17)	699.7 ㎒ ~ 715.3 ㎒	PCB	0.04
LTE FDD Band 25(2) (PCS)	1 850.7 ㎒ ~ 1 914.3 ㎒	PCB	0.45
LTE FDD Band 26(5) (Cell)	814.7 ㎒ ~ 848.3 ㎒	PCB	0.17
LTE TDD Band 41(38)	2 498.5 ㎒ ~ 2 687.5 ㎒	PCB	0.36
LTE TDD Band 42	3 452.5 ㎒ ~ 3 547.5 ㎒	PCB	0.02
NR FDD Band n7	2 502.5 ㎒ ~ 2 567.5 ㎒	PCB	0.68
NR TDD Band n41	2 501.01 ㎒ ~ 2 685 ㎒	PCB	0.52
NR TDD Band n77(78)	3 705 ㎒ ~ 3 975 ㎒ 3 445.01 ㎒ ~ 3 544.98 ㎒	PCB	0.05
Simultaneous SAR per KDB 690783 D01v01r03			**0.115**
Date(s) of Tests:	Jun. 24, 2025~ Jul. 09, 2025		

4. Device Under Test Description

4.1 DUT specification

Device Wireless specification overview		
Band & Mode	**Operating Mode**	**Tx Frequency**
GSM850	Data	824.2 ㎒ ~ 848.8 ㎒
GSM1900	Data	1 850.2 ㎒ ~ 1 909.8 ㎒
UMTS Band 2	Data	1 852.4 ㎒ ~ 1 907.6 ㎒
UMTS Band 4	Data	1 712.4 ㎒ ~ 1 752.6 ㎒
UMTS Band 5	Data	826.4 ㎒ ~ 846.6 ㎒
LTE FDD Band 2 (PCS)	Data	1 850.7 ㎒ ~ 1 909.3 ㎒
LTE FDD Band 4 (AWS)	Data	1 710.7 ㎒ ~ 1 754.3 ㎒
LTE FDD Band 5 (Cell)	Data	824.7 ㎒ ~ 848.3 ㎒
LTE FDD Band 7	Data	2 502.5 ㎒ ~ 2 567.5 ㎒
LTE FDD Band 12	Data	699.7 ㎒ ~ 715.3 ㎒
LTE FDD Band 17	Data	706.5 ㎒ ~ 713.5 ㎒
LTE FDD Band 25	Data	1 850.7 ㎒ ~ 1 914.3 ㎒
LTE FDD Band 26	Data	814.7 ㎒ ~ 848.3 ㎒
LTE TDD Band 38	Data	2 572.5 ㎒ ~ 2 617.5 ㎒
LTE TDD Band 41	Data	2 498.5 ㎒ ~ 2 687.5 ㎒
LTE TDD Band 42	Data	3 452.5 ㎒ ~ 3 547.5 ㎒
NR FDD Band n7	Data	2 502.5 ㎒ ~ 2 567.5 ㎒
NR TDD Band n41	Data	2 501.01 ㎒ ~ 2 685 ㎒
NR TDD Band n77	Data	3 705 ㎒ ~ 3 975 ㎒
NR TDD Band n77 DoD	Data	3 445.01 ㎒ ~ 3 544.98 ㎒
NR TDD Band n78	Data	3 705 ㎒ ~ 3 795 ㎒

Device Description		
	Mode	**Serial Number**
Device Serial Numbers	GSM 850, 1900, UMTS Band 2,4, 5, LTE Band 7, 12, 25, 26, 41, 42 NR Band n7, n41, n77	353785770005261
	The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics are within operational tolerances expected for production units.	

4.2 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. compliance per KDB publication 447498 D01v06.

4.2.1 2G/3G/4G/5G Nominal Output Power

A. GSM Modes

MIMO1, Int. BUA									
Band		Data - Burst Average GMSK (dBm)				Data - Burst Average 8-PSK (dBm)			
		1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
GSM850	Maximum	35.0	34.0	32.0	31.0	29.0	28.0	26.0	25.0
	Nominal	33.0	32.0	30.0	29.0	27.0	26.0	24.0	23.0
GSM1900	Maximum	31.0	30.0	29.0	28.0	28.0	27.0	25.0	24.0
	Nominal	29.0	28.0	27.0	26.0	26.0	25.0	23.0	22.0

Tolerance: -2.7 dB ~ +2.0 dB

B. UMTS Modes

Mode/Band		Max. Modulated Average (dBm)			
		MIMO1, Int. BUA			
		3GPP WCDMA	3GPP HSDPA	3GPP HSUPA	3GPP DC-HSPDA
UMTS Band 2 (1900 ㎒)	Maximum	25.0	24.0	23.0	24.0
	Nominal	23.0	22.0	21.0	22.0
UMTS Band 4 (1700 ㎒)	Maximum	25.0	24.0	23.0	24.0
	Nominal	23.0	22.0	21.0	22.0
UMTS Band 5 (850 ㎒)	Maximum	25.0	24.0	23.0	24.0
	Nominal	23.0	22.0	21.0	22.0

Tolerance: -2.7 dB ~ +2.0 dB

C. LTE Modes

Mode / Band		Max. Modulated Average (dBm)	
		MIMO1	Int. BUA
LTE FDD Band 2	Maximum	25.0	25.0
	Nominal	23.0	23.0
LTE FDD Band 4	Maximum	25.0	25.0
	Nominal	23.0	23.0
LTE FDD Band 5	Maximum	25.0	25.0
	Nominal	23.0	23.0
LTE FDD Band 7	Maximum	25.0	25.0
	Nominal	23.0	23.0
LTE FDD Band 12	Maximum	25.0	
	Nominal	23.0	
LTE FDD Band 17	Maximum	25.0	
	Nominal	23.0	
LTE FDD Band 25	Maximum	25.0	25.0
	Nominal	23.0	23.0
LTE FDD Band 26	Maximum	25.0	25.0
	Nominal	23.0	23.0
LTE TDD Band 38	Maximum	25.0	25.0
	Nominal	23.0	23.0
LTE TDD Band 41	Maximum	25.0	25.0
	Nominal	23.0	23.0

Tolerance: -2.7 dB ~ +2.0 dB

Mode / Band		Max. Modulated Average (dBm)
		MIMO1
LTE TDD Band 42	Maximum	23.0
	Nominal	21.0

Tolerance: -2.0 dB ~ +2.0 dB

Mode / Band		Max. Modulated Average (dBm)
		MIMO2
LTE TDD Band 42	Maximum	24.0
	Nominal	22.0

Tolerance: -3.0 dB ~ +2.0 dB

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Mode / Band		Max. Modulated Average (dBm)	
		MIMO1	Int. BUA
NR FDD Band n7	Maximum	25.0	25.0
	Nominal	23.0	23.0
NR TDD Band n41	Maximum	25.0	25.0
	Nominal	23.0	23.0

Tolerance: -2.7 dB ~ +2.0 dB

Mode / Band		Max. Modulated Average (dBm)
		MIMO1
NR TDD Band n77	Maximum	23.0
	Nominal	21.0

Tolerance: -2.5 dB ~ +2.0 dB

Mode / Band		Max. Modulated Average (dBm)
		MIMO1
NR TDD Band n78	Maximum	23.0
	Nominal	21.0

Tolerance: -2.0 dB ~ +2.0 dB

Mode / Band	Max. Modulated Average (dBm)	
	MIMO2	
NR TDD Band n77	Maximum	24.0
	Nominal	22.0
NR TDD Band n78	Maximum	24.0
	Nominal	22.0

Tolerance: -3.0 dB ~ +2.0 dB

4.3 LTE Information

Item.		Description
Frequency Range	LTE FDD Band 2 (PCS)	1 850.7 ㎒ ~ 1 909.3 ㎒
	LTE FDD Band 4 (AWS)	1 710.7 ㎒ ~ 1 754.3 ㎒
	LTE FDD Band 5 (Cell)	824.7 ㎒ ~ 848.3 ㎒
	LTE FDD Band 7	2 502.5 ㎒ ~ 2 567.5 ㎒
	LTE FDD Band 12	699.7 ㎒ ~ 715.3 ㎒
	LTE FDD Band 17	706.5 ㎒ ~ 713.5 ㎒
	LTE FDD Band 25	1 850.7 ㎒ ~ 1 914.3 ㎒
	LTE FDD Band 26	814.7 ㎒ ~ 848.3 ㎒
	LTE TDD Band 38	2 572.5 ㎒ ~ 2 617.5 ㎒
	LTE TDD Band 41	2 498.5 ㎒ ~ 2 687.5 ㎒
	LTE TDD Band 42	3 452.5 ㎒ ~ 3 547.5 ㎒
Channel Bandwidths	LTE FDD Band 2 (PCS)	1.4 ㎒, 3 ㎒, 5 ㎒, 10 ㎒, 15 ㎒, 20 ㎒
	LTE FDD Band 4 (AWS)	1.4 ㎒, 3 ㎒, 5 ㎒, 10 ㎒, 15 ㎒, 20 ㎒
	LTE FDD Band 5 (Cell)	1.4 ㎒, 3 ㎒, 5 ㎒, 10 ㎒
	LTE FDD Band 7	5 ㎒, 10 ㎒, 15 ㎒, 20 ㎒
	LTE FDD Band 12	1.4 ㎒, 3 ㎒, 5 ㎒, 10 ㎒
	LTE FDD Band 17	5 ㎒, 10 ㎒
	LTE FDD Band 25	1.4 ㎒, 3 ㎒, 5 ㎒, 10 ㎒, 15 ㎒, 20 ㎒
	LTE FDD Band 26	1.4 ㎒, 3 ㎒, 5 ㎒, 10 ㎒, 15 ㎒
	LTE TDD Band 38	5 ㎒, 10 ㎒, 15 ㎒, 20 ㎒
	LTE TDD Band 41	5 ㎒, 10 ㎒, 15 ㎒, 20 ㎒
	LTE TDD Band 42	5 ㎒, 10 ㎒, 15 ㎒, 20 ㎒

Ch. No.& Freq.(MHz)		Low / Low-Mid		Mid		Mid-High / High
LTE FDD 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 FDD 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			1 732.5 (20175)		
LTE FDD 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			836.5 (20525)		
LTE FDD Band 7	5 MHz	2 502.5 (20775)		2 535 (21100)		2 567.5 (21425)
	10 MHz	2 505 (20800)		2 535 (21100)		2 565 (21400)
	15 MHz	2 507.5 (20825)		2 535 (21100)		2 562.5 (21375)
	20 MHz	2 510 (20850)		2 535 (21100)		2 560 (21350)
LTE FDD 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			707.5 (23095)		
LTE FDD Band 17	5 MHz	706.5 (23755)		710 (23790)		713.5 (23825)
	10 MHz			710 (23790)		
LTE FDD 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 FDD 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			831.5 (26865)		
LTE TDD Band 38	5 MHz	2 572.5 (37775)		2 595 (38000)		2 617.5 (38225)
	10 MHz	2 575 (37800)		2 595 (38000)		2 615 (38200)
	15 MHz	2 577.5 (37825)		2 595 (38000)		2 612.5 (38175)
	20 MHz	2 580 (37850)		2 595 (38000)		2 610 (38150)
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)

Ch. No.& Freq.(㎒)		Low / Low-Mid	Mid	Mid-High / High
LTE TDD Band 42	5 ㎒	3 452.5(42115)	3 500(42590)	3 547.5(43065)
	10 ㎒	3 455(42140)	3 500(42590)	3 545(43040)
	15 ㎒	3 457.5(42165)	3 500(42590)	3 542.5(43015)
	20 ㎒	3 460(42190)	3 500(42590)	3 540(42990)

UE Category	LTE Rel. 15, DL: Category 19, UL: Category 18
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.
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 elCl, MDH, cross-carrier Scheduling, Enhanced SC-FDMA.

4.4 5G NR SUB 6 Information

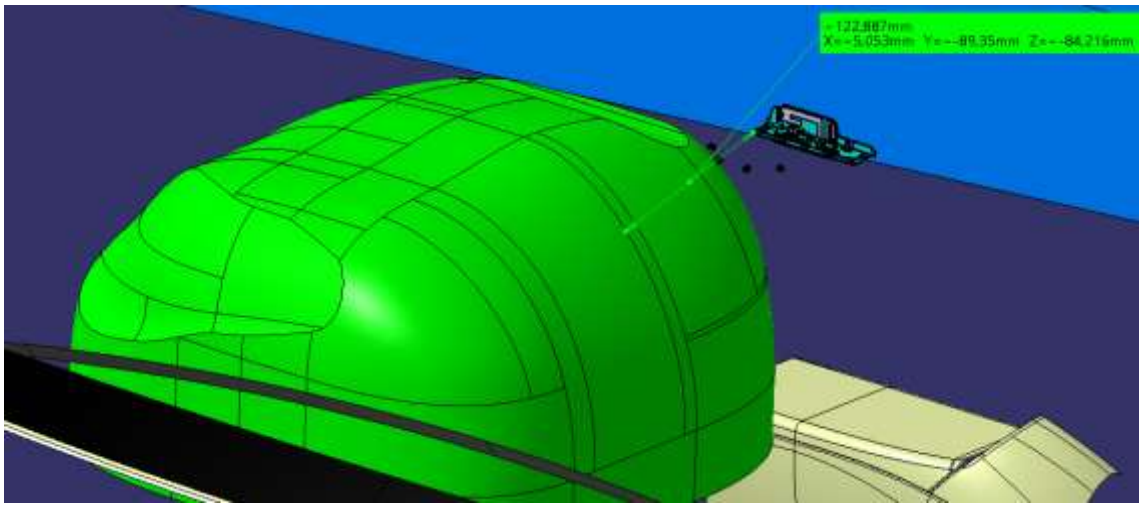
Item.		Description
	NR FDD Band n7	2 502.5 MHz ~ 2 567.5 MHz
	NR TDD Band n41	2 501.01 MHz ~ 2 685 MHz
	NR TDD Band n77	3 705 MHz ~ 3 975 MHz
	NR TDD Band n77 DoD	3 445.01 MHz ~ 3 544.98 MHz
	NR TDD Band n78	3 705 MHz ~ 3 795 MHz
	NR FDD Band n7	5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz
	NR TDD 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 TDD 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 TDD 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
	NR TDD Band n78	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 / Low-Mid		Mid		Mid-High / High	
NR FDD Band n7	5 MHz	2 502.5(500500)		2 535(507000)		2 567.5(513500)	
	10 MHz	2 505(501000)		2 535(507000)		2 565(513000)	
	15 MHz	2 507.5(501500)		2 535(507000)		2 562.5(512500)	
	20 MHz	2 510(502000)		2 535(507000)		2 560(512000)	
	25 MHz	2 512.5(502500)		2 535(507000)		2 557.5(511500)	
	30 MHz	2 515(503000)		2 535(507000)		2 555(511000)	
	40 MHz			2 535(507000)			
	50 MHz			2 535(507000)			
NR TDD Band n41	10 MHz	2501.01 (500202)	2547 (509400)	2 592.99(518598)	2639.01 (527802)	2685 (537000)	
	15 MHz	2503.5 (500700)	2548.26 (509652)	2 592.99(518598)	2637.75 (527550)	2682.51 (536502)	
	20 MHz	2 506.02(501204)	2 549.49(509898)	2 592.99(518598)	2 636.49 (527298)	2 679.99(535998)	
	30 MHz	2 511(502200)	2 552.01(510402)	2 592.99(518598)	2 634 (526800)	2 674.98(534996)	
	40 MHz	2 516.01(503202)	2 567.34(513468)		2 618.67(523734)	2 670(534000)	
	50 MHz	2 521.02(504204)		2 592.99(518598)		2 664.99(532998)	
	60 MHz	2 526(505200)		2 592.99(518598)		2 659.98(531996)	
	70 MHz	2 531.01(506202)				2 655(531000)	
	80 MHz	2 536.02(507204)				2 649.99(529998)	
	90 MHz	2 541(508200)				2 644.98(528996)	
	100 MHz			2 592.99(518598)			
NR TDD Band n77	10 MHz	3 705 (647000)	3 759 (650600)	3 813 (654200)	3 867 (657800)	3 921 (661400)	3 975 (665000)
	15 MHz	3 707.52 (647168)	3 760.5 (650700)	3 813.49 (654232)	3 866.5 (657766)	3 919.5 (661300)	3 972.48 (664832)
	20 MHz	3 710.01(647334)	3 762(650800)	3 813.99(654266)	3 866.01(657734)	3 918(661200)	3 969.99(664666)
	25 MHz	3 712.5 (647500)	3 763.5 (650900)	3 814.5 (654300)	3 865.5(657700)	3 916.5 (661100)	3 967.5 (664500)
	30 MHz	3 715.02(647668)	3 765(651000)	3 815.01(654334)	3 864.99(657666)	3 915(661000)	3 964.98(664332)
	40 MHz	3 720(648000)	3 768(651200)	3 816(654400)	3 864(657600)	3 912(660800)	3 960(664000)
	50 MHz	3 725.01(648334)	3 782.49(652166)	3 840(656000)		3 897.51(659834)	3 954.99(663666)
	60 MHz	3 730.02(648668)	3 803.34(653556)			3 876.66(658444)	3 949.98(663332)
	70 MHz	3 735(649000)	3 804.99(654336)			3 875.01(658334)	3 945(663000)
	80 MHz	3 740.01(649334)		3 840(656000)			3 939.99(662666)
	90 MHz	3 745.02(649668)		3 840(656000)		3 934.98(662332)	
	100 MHz	3 750(650000)		3 840(656000)		3 930(662000)	
NR TDD Band n77 (DoD)	10 MHz	3 445.01 (630334)		3 500.01(633334)		3 544.98(636332)	
	15 MHz	3 457.5 (630500)		3 500.01(633334)		3 542.49 (636166)	
	20 MHz	3 460.02(630668)		3 500.01(633334)		3 540 (636000)	
	25 MHz	3 462.99 (630866)		3 500.01(633334)		3 537(635800)	
	30 MHz	3 465(631000)		3 500.01(633334)		3 534.99(635666)	
	40 MHz	3 470.01(631334)				3 529.98(635332)	
	50 MHz	3 475.02(631668)				3 525(635000)	
	60 MHz			3 500.01(633334)			
	70 MHz			3 500.01(633334)			
	80 MHz			3 500.01(633334)			
	90 MHz			3 500.01(633334)			
	100 MHz			3 500.01(633334)			
NR TDD Band n78	10 MHz	3 705 (647000)		3 750(650000)		3 795 (653000)	
	15 MHz	3 707.5 (647166)		3 750(650000)		3 792.48 (652832)	
	20 MHz	3 710.01(647334)		3 750(650000)		3 789.99(652666)	
	25 MHz	3 712.5 (6475000		3 750(650000)		3 787.5 (652500)	
	30 MHz	3 715(647666)		3 750(650000)		3 784.98(652332)	
	40 MHz	3 720(647800)				3 780(652000)	
	50 MHz	3 725.01(648334)				3 774.99(651666)	
	60 MHz			3 750(650000)			
	70 MHz			3 750(650000)			
	80 MHz			3 750(650000)			
	90 MHz			3 750(650000)			
	100 MHz			3 750(650000)			

Item.	Description
NR FDD Band n2/n5/n7/n12/n25/n66/n71 SCS	15 ㎑
NR TDD Band n41/n48/n77/n78 SCS	30 ㎑
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 FR1 Bands n77, n78 are supported to NSA and SA Connectivity. n7, n41 is 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 combinations
LTE Anchor Bands for NR Band n77	LTE Band 41
LTE Anchor Bands for NR Band n78	LTE Band 5/7/26/38/41

4.5 DUT Antenna Locations

The required minimum test separation distance for incorporating transmitters and antennas is determined with user.



Note: The green area shown in the image represents the "headbell," which indicates the typical head position of a seated user. This reference surface accounts for factors such as user height and head movement, and reflects the majority of the population and body types.

Test Configurations for the WWAN Main Module within Host

Despite the actual separation distance being 123 mm, testing was performed using a unified distance as part of a conservative and consistent approach.

MIMO1, MIMO2

Test Configurations	Antenna-to-edge/surface	SAR Required	Note
Rear	45.0 mm	Yes	The test separation distance is normally determined by the closest distance between the antenna and the user.

BUA

Test Configurations	Antenna-to-edge/surface	SAR Required	Note
Rear	22.0 mm	Yes	The test separation distance is normally determined by the closest distance between the antenna and the user.

4.6 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.

WWAN						Scenario
MIMO1		MIMO2		BUA		
4G	5G	4G	5G	4G	5G	
O	O	X	X	X	X	MIMO1
O	X	X	O	X	X	MIMO1 + MIMO2
X	X	X	X	O	O	BUA

Note:

1. The highest reported SAR for each exposure condition is used for SAR summation purpose.
2. LTE + 5G NR FR1 Scenarios are supported NSA and SA Connectivity.

5. Introduction

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

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

SAR Definition

Specific Absorption Rate (SAR) is defined as the time derivative of the incremental electromagnetic energy (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.

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

Figure 1. SAR Mathematical Equation

SAR is expressed in units of Watts per Kilogram (W/kg)

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

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

6. Description of test equipment

6.1 SAR MEASUREMENT SETUP

These measurements are performed using the DASY5/6/8 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 or Window 10 or Window 11 is working with SAR Measurement system & DASY5 & DASY6 &DASY8 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.

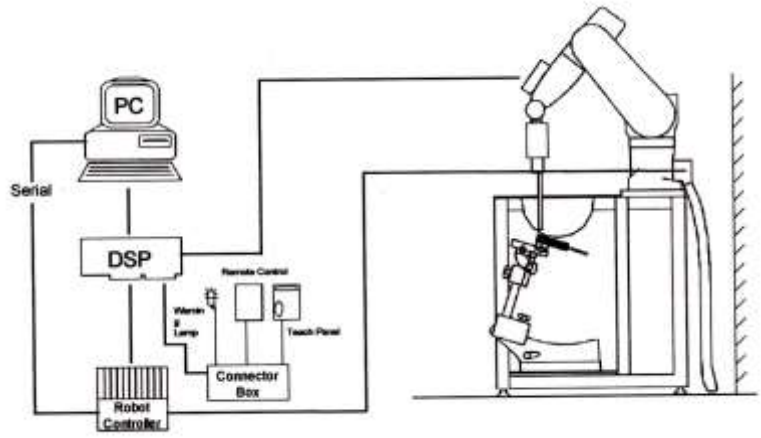


Figure 2. HCT SAR Lab. Test Measurement Set-up

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 ㎜ 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.

<table>
<tr><td colspan="3"></td><td>≤ 3 GHz</td><td>> 3 GHz</td></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5±1 mm</td><td>·δ·ln(2)±0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30°±1°</td><td>20°±1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan Spatial resolution: $\Delta x_{Area}, \Delta y_{Area}$</td><td>≤ 2 GHz: ≤15 mm
2-3 GHz: ≤12 mm</td><td>3-4 GHz: ≤12 mm
4-6 GHz: ≤10 mm</td></tr>
<tr><td colspan="2">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.</td></tr>
<tr><td colspan="3">Maximum zoom scan Spatial resolution: $\Delta x_{zoom}, \Delta y_{zoom}$</td><td>≤ 2 GHz: ≤8mm
2-3 GHz: ≤5mm*</td><td>3-4 GHz: ≤5 mm*
4-6 GHz: ≤4 mm*</td></tr>
<tr><td rowspan="3">Maximum zoom scan Spatial resolution normal to phantom surface</td><td colspan="2">uniform grid: $\Delta z_{zoom}(n)$</td><td>≤ 5 mm</td><td>3-4 GHz: ≤4 mm
4-5 GHz: ≤3 mm
5-6 GHz: ≤2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>$\Delta z_{zoom}(1)$: between 1st two Points closest to phantom surface</td><td>≤ 4 mm</td><td>3-4 GHz: ≤3 mm
4-5 GHz: ≤2.5 mm
5-6 GHz: ≤2 mm</td></tr>
<tr><td>$\Delta z_{zoom}(n>1)$: between subsequent Points</td><td colspan="2">$\leq 1.5 \cdot \Delta z_{zoom}(n-1)$</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y, z</td><td>≥ 30 mm</td><td>3-4 GHz: ≥28 mm
4-5 GHz: ≥25 mm
5-6 GHz: ≥22 mm</td></tr>
<tr><td colspan="5">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.</td></tr>
</table>

8. RF EXPOSURE LIMITS

HUMAN EXPOSURE	UNCONTROLLED ENVIRONMENT General Population	CONTROLLED ENVIRONMENT Occupational
	W/kg	W/kg
The SAR averaged over the whole body mass.	0.08	0.4
The peak spatially-averaged SAR for the head, neck and trunk, averaged over any 1 g of tissue*	1.6	8
The peak spatially-averaged SAR in the limbs, averaged over any 10 g of tissue*	4	20

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.

9. SAR Test Considerations

9.1 Licensed Transmitter(s)

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.

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 LTE capabilities with overlapping transmission frequency ranges. When the supported frequency range of LTE Band falls completely within an LTE Band with a larger transmission frequency range, both LTE Bands have the same target power or the Band with the larger transmission frequency range has a higher target power and both 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 Band 5 (824.7 ㎒ ~ 848.3 ㎒) is coverd by LTE Band 26(814.7 ㎒ ~ 848.3 ㎒), LTE Band 2 (1 850.7 ㎒ ~ 1 909.3 ㎒) is coverd by LTE Band 25(1 850.7 ㎒ ~ 1 914.3 ㎒) and LTE Band 17 (706.5 ㎒ ~ 713.5 ㎒) is coverd by LTE Band 12 (699.7 ㎒ ~ 715.3 ㎒), LTE Band 38 (2 572.5 ㎒ ~ 2 617.5 ㎒) is coverd by LTE Band 41 (2 498.5 ㎒ ~ 2 687.5 ㎒) of this model each both LTE bands have the same target powers.

This product supported Intra-band LTE Carrier Aggregation for 7C with two component carriers in the uplink. SAR Measurement and conducted Powers were measured according to Nov 2019 TCBC Workshop guide.

NR capabilities with overlapping transmission frequency ranges were applied to NR Band n77 DoD (3 460.02 ㎒ ~ 3 540 ㎒) is coverd by NR Band n78 DoD (3 460.02 ㎒ ~ 3 540 ㎒), NR Band n77 (3 710.01 ㎒ ~ 3 969.99 ㎒) is coverd by NR Band n78(3 710.01 ㎒ ~ 3 789.99 ㎒) of this model each both NR bands have the same target powers.

This device supports NSA(Non-standalone) and SA (Standalone) connectivity for 5G NR FR1 Bands, more detailed specifications of the Bands are contained in the Technical description document.

According to November 2019 TCB Workshop, ENDC SAR Test Guidance as follows:

If the single uplink 1-g SAR values for each band are both less than 0.8 W/kg and the algebraic summation of the 1 g SAR values are less than 1.45 W/kg, no additional measurements need to be performed.

If one of the single uplink 1-g SAR values is greater than 0.8 W/kg, instead of algebraically summing the 1-g SAR values, sum up the SAR distributions, similar to the enlarged zoom scan (volume scan) procedures.

If the algebraic sum of the 1-g SAR values is greater than 1.45 W/kg, additional measurements may have to be made. Submit a KDB Inquiry for additional guidance.

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.

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.

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

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

9.1.1 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

10. 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

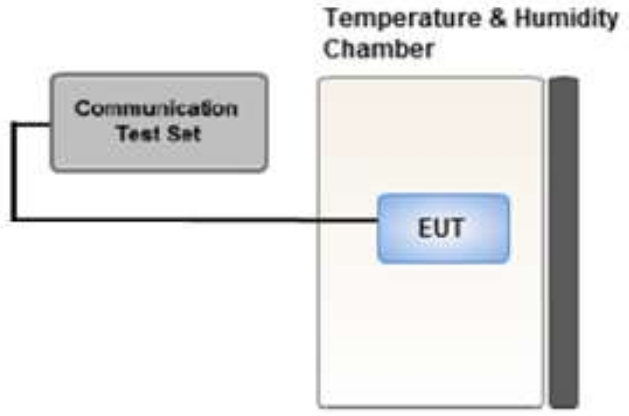
According to ANSI C63.26-2015 Section 5.2.1 when measuring the maximum RF output power from such devices, control over the EUT must be provided either through special test software (provided by manufacturer specifically for compliance testing, but not accessible by an end user) or through use of a base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



10.1 GSM Maximum Output Power

10.1.1 GSM 850 Maximum Conducted Output Power

Mode / Band		GPRS(GMSK) Data – CS1(dBm)				EDGE Data (dBm)			
		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		35.00	34.00	32.00	31.00	29.00	28.00	26.00	25.00
Nominal		33.00	32.00	30.00	29.00	27.00	26.00	24.00	23.00
GSM 850	128	33.01	32.08	29.78	28.56	26.67	25.43	23.18	22.14
	190	32.91	31.98	29.66	28.47	26.54	25.28	22.93	21.87
	251	32.88	31.92	29.56	28.31	26.25	24.96	22.67	21.63

GSM Conducted output powers (Burst-Average)

Mode / Band		GPRS(GMSK) Data – CS1(dBm)				EDGE Data (dBm)			
		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		25.97	27.98	27.74	27.99	19.97	21.98	21.74	21.99
Nominal		23.97	25.98	25.74	25.99	17.97	19.98	19.74	19.99
GSM 850	128	23.98	26.06	25.52	25.55	17.64	19.41	18.92	19.13
	190	23.88	25.96	25.40	25.46	17.51	19.26	18.67	18.86
	251	23.85	25.90	25.30	25.30	17.22	18.94	18.41	18.62

GSM Conducted output powers (Frame-Average)

10.1.2 GSM 1900 Maximum Conducted Output Power

Mode / Band		GPRS(GMSK) Data – CS1(dBm)				EDGE Data (dBm)			
		GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot	EDGE 1 TX Slot	EDGE 2 TX Slot	EDGE 3 TX Slot	EDGE 4 TX Slot
Maximum		31.00	30.00	29.00	28.00	28.00	27.00	25.00	24.00
Nominal		29.00	28.00	27.00	26.00	26.00	25.00	23.00	22.00
GSM 1900	512	29.77	28.79	26.60	25.41	26.12	25.06	22.99	21.85
	661	29.84	28.82	26.71	25.42	25.72	24.56	22.44	21.26
	810	29.57	28.55	26.35	25.16	24.77	23.65	21.61	20.27

GSM Conducted output powers (Burst-Average)

Mode / Band		GPRS(GMSK) Data – CS1(dBm)				EDGE Data (dBm)			
		GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot	EDGE 1 TX Slot	EDGE 2 TX Slot	EDGE 3 TX Slot	EDGE 4 TX Slot
Maximum		21.97	23.98	24.74	24.99	18.97	20.98	20.74	20.99
Nominal		19.97	21.98	22.74	22.99	16.97	18.98	18.74	18.99
GSM 1900	512	20.74	22.77	22.34	22.40	17.09	19.04	18.73	18.84
	661	20.81	22.80	22.45	22.41	16.69	18.54	18.18	18.25
	810	20.54	22.53	22.09	22.15	15.74	17.63	17.35	17.26

GSM Conducted output powers (Frame-Average)

10.2 UMTS Maximum Output Power

HSPA1+
This DUT is only capable of QPSK HSPA+ in uplink. Therefore, the RF conducted power is not measured according to 941225 D01v03r01 3G SAR.

10.2.1 UMTS Band 5 Maximum Conducted Output Power

UMTS Band 5 Maximum Conducted Output Power

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 5 [dBm]			3GPP MPR
		Subtest	UL4132 DL4357	UL4183 DL4408	UL4233 DL4458	
99	UMTS	12.2 kbps RMC	23.78	23.76	23.78	-
5	HSDPA	Subtest 1	22.75	22.71	22.77	0
5		Subtest 2	22.68	22.70	22.79	0
5		Subtest 3	22.26	22.27	22.32	0.5
5		Subtest 4	22.32	22.27	22.22	0.5
6	HSUPA	Subtest 1	20.84	20.83	20.72	0
6		Subtest 2	20.84	20.86	20.83	2
6		Subtest 3	21.76	21.76	21.81	1
6		Subtest 4	20.41	20.38	20.42	2
6		Subtest 5	21.74	21.74	21.72	0
8	DC-HSDPA	Subtest1	22.77	22.66	22.80	0
8		Subtest2	22.74	22.68	22.81	0
8		Subtest3	22.26	22.33	22.40	0.5
8		Subtest4	22.32	22.23	22.32	0.5

UMTS Average Conducted output powers

10.2.2 UMTS Band 4 Maximum Conducted Output Power

UMTS Band 4 Maximum Conducted Output Power

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 5 [dBm]			3GPP MPR
		Subtest	UL1312 DL1537	UL1412 DL1637	UL1513 DL1738	
99	UMTS	12.2 kbps RMC	23.74	23.74	23.99	-
5	HSDPA	Subtest 1	22.64	22.68	22.91	0
5		Subtest 2	22.66	22.64	22.93	0
5		Subtest 3	22.15	22.19	22.48	0.5
5		Subtest 4	22.17	22.17	22.42	0.5
6	HSUPA	Subtest 1	20.61	20.63	20.88	0
6		Subtest 2	20.65	20.64	20.90	2
6		Subtest 3	21.67	21.65	21.94	1
6		Subtest 4	20.13	20.16	20.42	2
6		Subtest 5	21.64	21.68	21.90	0
8	DC-HSDPA	Subtest1	22.64	22.66	22.92	0
8		Subtest2	22.68	22.61	22.85	0
8		Subtest3	22.25	22.10	22.45	0.5
8		Subtest4	22.27	22.11	22.34	0.5

UMTS Average Conducted output powers

10.2.3 UMTS Band 2 Maximum Conducted Output Power

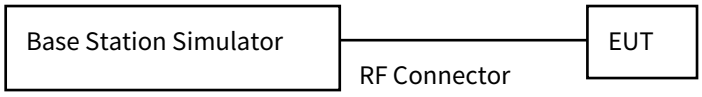
UMTS Band 2 Maximum Conducted Output Power

3GPP Release Version	Mode	3GPP 34.121	UMTS Band 2 [dBm]			3GPP MPR
		Subtest	UL9262 DL9662	UL9400 DL9800	UL9538 DL9938	
99	UMTS	12.2 kbps RMC	23.94	23.91	23.98	-
5	HSDPA	Subtest 1	22.87	22.88	22.92	0
5		Subtest 2	22.89	22.82	22.94	0
5		Subtest 3	22.43	22.40	22.40	0.5
5		Subtest 4	22.38	22.37	22.42	0.5
6	HSUPA	Subtest 1	20.88	20.83	20.85	0
6		Subtest 2	20.90	20.85	20.90	2
6		Subtest 3	21.88	21.89	21.92	1
6		Subtest 4	20.39	20.37	20.40	2
6		Subtest 5	21.85	21.81	21.82	0
8	DC-HSDPA	Subtest 1	22.97	22.80	22.92	0
8		Subtest2	22.98	22.79	22.88	0
8		Subtest3	22.40	22.26	22.46	0.5
8		Subtest4	22.46	22.21	22.34	0.5

UMTS Average Conducted output powers

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.



10.3 LTE Maximum Output Power

10.3.1 LTE FDD Band 2 Maximum Conducted Output Power

LTE FDD Band 2 _ 1.4 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18607 Ch. 1850.7 ㎒	18900 Ch. 1880 ㎒	19193 Ch. 1909.3 ㎒		
1.4 ㎒	QPSK	1	0	23.92	23.91	23.83	0	0
		1	3	23.88	23.72	23.86	0	0
		1	5	23.87	23.69	23.78	0	0
		3	0	23.88	23.68	23.83	0	0
		3	1	23.89	23.67	23.78	0	0
		3	3	23.91	23.63	23.78	0	0
		6	0	22.92	22.70	22.78	0-1	1
	16QAM	1	0	23.06	22.89	23.02	0-1	1
		1	3	23.19	22.87	23.05	0-1	1
		1	5	23.08	22.87	23.02	0-1	1
		3	0	22.93	22.81	22.90	0-1	1
		3	1	22.99	22.83	22.89	0-1	1
		3	3	22.99	22.73	22.88	0-1	1
		6	0	21.99	21.70	21.85	0-2	2
	64QAM	1	0	22.00	21.82	21.93	0-2	2
		1	3	22.02	21.92	22.02	0-2	2
		1	5	21.97	21.83	21.98	0-2	2
		3	0	21.90	21.71	21.82	0-2	2
		3	1	21.97	21.77	21.81	0-2	2
		3	3	21.94	21.71	21.85	0-2	2
		6	0	20.87	20.68	20.79	0-3	3
	256QAM	1	0	18.98	18.86	18.93	0-5	5
		1	3	19.03	18.82	18.87	0-5	5
		1	5	18.96	18.80	18.91	0-5	5
		3	0	19.00	18.80	18.91	0-5	5
		3	1	18.97	18.80	18.91	0-5	5
		3	3	18.95	18.80	18.91	0-5	5
		6	0	18.81	18.80	18.91	0-5	5

LTE FDD Band 2 _ 3 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				18615 Ch. 1851.5 ㎒	18900 Ch. 1880 ㎒	19185 Ch. 1908.5 ㎒		
3 ㎒	QPSK	1	0	23.81	23.72	23.75	0	0
		1	7	23.85	23.62	23.85	0	0
		1	14	23.89	23.68	23.84	0	0
		8	0	22.92	22.72	22.79	0-1	1
		8	3	22.87	22.65	22.75	0-1	1
		8	7	22.86	22.69	22.83	0-1	1
		15	0	22.92	22.69	22.78	0-1	1
	16QAM	1	0	23.10	22.99	22.96	0-1	1
		1	7	23.01	22.95	23.11	0-1	1
		1	14	23.05	22.96	23.12	0-1	1
		8	0	21.99	21.84	21.87	0-2	2
		8	3	22.04	21.73	21.92	0-2	2
		8	7	21.99	21.79	21.95	0-2	2
		15	0	21.93	21.77	21.86	0-2	2
	64QAM	1	0	22.01	21.90	21.92	0-2	2
		1	7	22.11	21.83	21.95	0-2	2
		1	14	21.99	21.82	21.95	0-2	2
		8	0	20.94	20.74	20.80	0-3	3
		8	3	20.85	20.70	20.80	0-3	3
		8	7	20.87	20.72	20.86	0-3	3
		15	0	20.93	20.73	20.87	0-3	3
	256QAM	1	0	18.98	18.80	18.90	0-5	5
		1	7	18.91	18.90	18.83	0-5	5
		1	14	18.97	18.81	18.91	0-5	5
		8	0	18.90	18.73	18.75	0-5	5
		8	3	18.87	18.63	18.78	0-5	5
		8	7	18.87	18.67	18.79	0-5	5
		15	0	18.87	18.73	18.81	0-5	5

LTE FDD Band 2 _ 5 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.91	23.71	23.71	0	0
		1	12	23.90	23.74	23.73	0	0
		1	24	23.89	23.62	23.80	0	0
		12	0	22.88	22.73	22.80	0-1	1
		12	6	22.90	22.74	22.84	0-1	1
		12	11	22.90	22.68	22.78	0-1	1
		25	0	22.98	22.71	22.76	0-1	1
	16QAM	1	0	23.08	22.92	23.14	0-1	1
		1	12	23.22	23.04	23.18	0-1	1
		1	24	23.32	22.82	23.25	0-1	1
		12	0	22.01	21.82	21.86	0-2	2
		12	6	21.96	21.72	21.87	0-2	2
		12	11	21.94	21.76	21.83	0-2	2
		25	0	21.92	21.71	21.78	0-2	2
	64QAM	1	0	21.99	21.91	21.96	0-2	2
		1	12	22.11	21.89	22.08	0-2	2
		1	24	22.15	21.88	22.01	0-2	2
		12	0	20.92	20.76	20.83	0-3	3
		12	6	20.90	20.74	20.85	0-3	3
		12	11	20.92	20.67	20.81	0-3	3
		25	0	20.89	20.74	20.75	0-3	3
	256QAM	1	0	18.91	18.84	18.84	0-5	5
		1	12	18.90	18.93	18.86	0-5	5
		1	24	18.99	18.80	18.92	0-5	5
		12	0	18.86	18.74	18.79	0-5	5
		12	6	18.92	18.74	18.78	0-5	5
		12	11	18.88	18.66	18.74	0-5	5
		25	0	18.84	18.70	18.67	0-5	5

LTE FDD Band 2 _ 10 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.87	23.74	23.66	0	0
		1	24	23.91	23.76	23.76	0	0
		1	49	23.86	23.75	23.77	0	0
		25	0	22.95	22.74	22.74	0-1	1
		25	12	22.89	22.68	22.75	0-1	1
		25	24	22.91	22.67	22.76	0-1	1
		50	0	22.98	22.75	22.81	0-1	1
	16QAM	1	0	23.10	23.14	22.94	0-1	1
		1	24	23.12	23.01	22.96	0-1	1
		1	49	23.08	22.91	22.95	0-1	1
		25	0	21.89	21.77	21.71	0-2	2
		25	12	21.88	21.73	21.77	0-2	2
		25	24	21.92	21.65	21.76	0-2	2
		50	0	21.90	21.71	21.76	0-2	2
	64QAM	1	0	21.97	21.93	21.82	0-2	2
		1	24	22.02	21.86	21.92	0-2	2
		1	49	22.00	21.85	21.93	0-2	2
		25	0	20.90	20.70	20.70	0-3	3
		25	12	20.86	20.66	20.79	0-3	3
		25	24	20.85	20.63	20.75	0-3	3
		50	0	20.92	20.66	20.70	0-3	3
	256QAM	1	0	18.91	18.91	18.78	0-5	5
		1	24	19.02	18.84	18.82	0-5	5
		1	49	18.90	18.78	18.98	0-5	5
		25	0	18.85	18.76	18.78	0-5	5
		25	12	18.91	18.65	18.77	0-5	5
		25	24	18.86	18.68	18.77	0-5	5
		50	0	18.90	18.73	18.74	0-5	5

LTE FDD Band 2 _ 15 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.89	23.71	23.66	0	0
		1	36	23.79	23.66	23.68	0	0
		1	74	23.84	23.73	23.88	0	0
		36	0	22.87	22.77	22.67	0-1	1
		36	18	22.83	22.64	22.70	0-1	1
		36	39	22.86	22.67	22.77	0-1	1
		75	0	22.91	22.76	22.71	0-1	1
	16QAM	1	0	23.13	23.16	22.97	0-1	1
		1	36	23.11	22.99	23.04	0-1	1
		1	74	23.20	22.97	23.09	0-1	1
		36	0	21.84	21.80	21.68	0-2	2
		36	18	21.79	21.70	21.76	0-2	2
		36	39	21.88	21.66	21.79	0-2	2
		75	0	21.77	21.65	21.77	0-2	2
	64QAM	1	0	22.08	21.96	21.80	0-2	2
		1	36	22.03	21.86	21.91	0-2	2
		1	74	21.97	21.92	22.06	0-2	2
		36	0	20.84	20.78	20.77	0-3	3
		36	18	20.88	20.68	20.77	0-3	3
		36	39	20.84	20.73	20.85	0-3	3
		75	0	20.80	20.68	20.70	0-3	3
	256QAM	1	0	18.94	18.86	18.74	0-5	5
		1	36	19.04	18.81	18.86	0-5	5
		1	74	18.96	18.79	18.84	0-5	5
		36	0	18.83	18.71	18.74	0-5	5
		36	18	18.87	18.71	18.69	0-5	5
		36	39	18.87	18.73	18.77	0-5	5
		75	0	18.79	18.71	18.72	0-5	5

LTE FDD Band 2 _ 20 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.73	23.80	23.66	0	0
		1	49	23.79	23.65	23.71	0	0
		1	99	23.79	23.69	23.75	0	0
		50	0	22.97	22.75	22.75	0-1	1
		50	25	22.83	22.72	22.72	0-1	1
		50	49	22.85	22.77	22.81	0-1	1
		100	0	22.86	22.71	22.76	0-1	1
	16QAM	1	0	23.05	23.09	22.95	0-1	1
		1	49	23.02	23.08	22.95	0-1	1
		1	99	23.15	22.93	23.16	0-1	1
		50	0	21.91	21.76	21.72	0-2	2
		50	25	21.84	21.76	21.73	0-2	2
		50	49	21.86	21.77	21.77	0-2	2
		100	0	21.85	21.77	21.74	0-2	2
	64QAM	1	0	22.05	21.99	21.85	0-2	2
		1	49	22.01	21.94	21.82	0-2	2
		1	99	22.01	21.89	22.02	0-2	2
		50	0	20.87	20.79	20.73	0-3	3
		50	25	20.84	20.68	20.72	0-3	3
		50	49	20.84	20.74	20.76	0-3	3
		100	0	20.79	20.65	20.72	0-3	3
	256QAM	1	0	18.86	18.85	18.78	0-5	5
		1	49	18.94	18.80	18.78	0-5	5
		1	99	18.96	18.84	18.99	0-5	5
		50	0	18.87	18.73	18.73	0-5	5
		50	25	18.79	18.70	18.70	0-5	5
		50	49	18.79	18.74	18.74	0-5	5
		100	0	18.88	18.70	18.76	0-5	5

10.3.2 LTE FDD Band 4 Maximum Conducted Output Power

LTE FDD Band 4 _ 1.4 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.63	23.79	23.87	0	0
		1	3	23.63	23.87	23.90	0	0
		1	5	23.67	23.82	23.85	0	0
		3	0	23.68	23.81	23.93	0	0
		3	1	23.66	23.81	23.92	0	0
		3	3	23.68	23.72	23.95	0	0
		6	0	22.69	22.76	22.94	0-1	1
	16QAM	1	0	22.93	23.04	23.18	0-1	1
		1	3	23.05	23.17	23.34	0-1	1
		1	5	22.86	23.14	23.25	0-1	1
		3	0	22.82	22.91	22.97	0-1	1
		3	1	22.80	22.97	22.95	0-1	1
		3	3	22.81	22.89	22.98	0-1	1
		6	0	21.74	21.79	21.94	0-2	2
	64QAM	1	0	21.77	21.95	22.12	0-2	2
		1	3	21.91	21.90	22.12	0-2	2
		1	5	21.84	21.97	22.06	0-2	2
		3	0	21.71	21.83	21.94	0-2	2
		3	1	21.71	21.74	22.00	0-2	2
		3	3	21.78	21.77	21.96	0-2	2
		6	0	20.74	20.77	20.88	0-3	3
	256QAM	1	0	18.76	18.81	18.99	0-5	5
		1	3	18.75	18.93	19.00	0-5	5
		1	5	18.71	18.87	18.98	0-5	5
		3	0	18.75	18.85	18.98	0-5	5
		3	1	18.73	18.85	18.98	0-5	5
		3	3	18.78	18.83	18.95	0-5	5
		6	0	18.61	18.71	18.88	0-5	5

LTE FDD Band 4 _ 3 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				19965 Ch. 1711.5 ㎒	20175 Ch. 1732.5 ㎒	20385 Ch. 1753.5 ㎒		
3 ㎒	QPSK	1	0	23.57	23.81	23.81	0	0
		1	7	23.75	23.72	23.89	0	0
		1	14	23.69	23.76	23.92	0	0
		8	0	22.69	22.83	22.96	0-1	1
		8	3	22.69	22.78	22.89	0-1	1
		8	7	22.73	22.81	22.94	0-1	1
		15	0	22.69	22.79	22.94	0-1	1
	16QAM	1	0	22.90	23.06	23.24	0-1	1
		1	7	22.98	23.19	23.13	0-1	1
		1	14	22.95	23.11	23.19	0-1	1
		8	0	21.85	21.94	22.10	0-2	2
		8	3	21.82	21.90	22.04	0-2	2
		8	7	21.85	21.89	22.05	0-2	2
		15	0	21.78	21.83	22.00	0-2	2
	64QAM	1	0	21.78	21.89	22.12	0-2	2
		1	7	21.94	21.93	22.07	0-2	2
		1	14	21.90	21.94	22.04	0-2	2
		8	0	20.75	20.81	20.96	0-3	3
		8	3	20.70	20.77	20.93	0-3	3
		8	7	20.75	20.76	20.90	0-3	3
		15	0	20.70	20.82	20.91	0-3	3
	256QAM	1	0	18.71	18.90	19.05	0-5	5
		1	7	18.71	18.95	18.99	0-5	5
		1	14	18.73	18.92	18.94	0-5	5
		8	0	18.73	18.75	18.97	0-5	5
		8	3	18.69	18.73	18.86	0-5	5
		8	7	18.74	18.79	18.89	0-5	5
		15	0	18.74	18.76	18.95	0-5	5

LTE FDD Band 4 _ 5 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.71	23.86	23.95	0	0
		1	12	23.79	23.83	23.99	0	0
		1	24	23.70	23.91	23.93	0	0
		12	0	22.74	22.80	22.98	0-1	1
		12	6	22.75	22.85	22.91	0-1	1
		12	11	22.69	22.80	22.93	0-1	1
		25	0	22.69	22.84	22.96	0-1	1
	16QAM	1	0	22.93	22.98	23.27	0-1	1
		1	12	23.05	23.04	23.27	0-1	1
		1	24	23.03	23.23	23.18	0-1	1
		12	0	21.80	21.87	22.04	0-2	2
		12	6	21.74	21.85	22.03	0-2	2
		12	11	21.77	21.88	21.99	0-2	2
		25	0	21.70	21.79	22.00	0-2	2
	64QAM	1	0	21.89	21.92	22.08	0-2	2
		1	12	21.91	22.00	22.15	0-2	2
		1	24	21.87	22.07	22.24	0-2	2
		12	0	20.70	20.81	20.99	0-3	3
		12	6	20.73	20.84	20.99	0-3	3
		12	11	20.73	20.84	20.97	0-3	3
		25	0	20.68	20.88	20.89	0-3	3
	256QAM	1	0	18.76	18.89	19.08	0-5	5
		1	12	18.93	18.94	19.05	0-5	5
		1	24	18.80	18.97	18.99	0-5	5
		12	0	18.72	18.77	18.89	0-5	5
		12	6	18.70	18.78	18.96	0-5	5
		12	11	18.76	18.86	18.91	0-5	5
		25	0	18.71	18.81	18.99	0-5	5

LTE FDD Band 4 _ 10 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.75	23.81	23.93	0	0
		1	24	23.79	23.90	23.97	0	0
		1	49	23.86	23.97	24.00	0	0
		25	0	22.77	22.81	22.96	0-1	1
		25	12	22.74	22.92	22.98	0-1	1
		25	24	22.78	22.95	23.02	0-1	1
		50	0	22.81	22.84	23.02	0-1	1
	16QAM	1	0	23.00	23.12	23.17	0-1	1
		1	24	22.92	23.16	23.20	0-1	1
		1	49	23.04	23.31	23.23	0-1	1
		25	0	21.78	21.86	21.99	0-2	2
		25	12	21.77	21.83	21.95	0-2	2
		25	24	21.74	21.94	22.03	0-2	2
		50	0	21.77	21.82	21.90	0-2	2
	64QAM	1	0	21.87	22.00	22.07	0-2	2
		1	24	21.90	22.04	22.07	0-2	2
		1	49	22.02	22.13	22.20	0-2	2
		25	0	20.71	20.80	20.88	0-3	3
		25	12	20.73	20.84	20.99	0-3	3
		25	24	20.78	20.84	20.99	0-3	3
		50	0	20.79	20.82	21.00	0-3	3
	256QAM	1	0	18.80	18.92	19.02	0-5	5
		1	24	18.85	18.94	18.92	0-5	5
		1	49	18.92	19.01	19.08	0-5	5
		25	0	18.77	18.77	18.94	0-5	5
		25	12	18.76	18.82	19.00	0-5	5
		25	24	18.71	18.84	18.98	0-5	5
		50	0	18.80	18.87	18.99	0-5	5

LTE FDD Band 4 _ 15 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.68	23.72	23.90	0	0
		1	36	23.80	23.88	24.05	0	0
		1	74	23.81	24.00	23.96	0	0
		36	0	22.76	22.77	22.97	0-1	1
		36	18	22.69	22.80	22.96	0-1	1
		36	39	22.75	22.95	23.04	0-1	1
		75	0	22.80	22.94	22.93	0-1	1
	16QAM	1	0	22.95	23.06	23.19	0-1	1
		1	36	23.01	23.15	23.38	0-1	1
		1	74	23.17	23.25	23.23	0-1	1
		36	0	21.69	21.80	21.89	0-2	2
		36	18	21.72	21.90	21.99	0-2	2
		36	39	21.80	21.97	21.96	0-2	2
		75	0	21.80	21.83	22.00	0-2	2
	64QAM	1	0	21.86	21.89	21.97	0-2	2
		1	36	21.95	22.00	22.16	0-2	2
		1	74	22.00	22.16	22.18	0-2	2
		36	0	20.71	20.76	20.94	0-3	3
		36	18	20.74	20.84	21.01	0-3	3
		36	39	20.78	20.90	20.99	0-3	3
		75	0	20.81	20.77	20.88	0-3	3
	256QAM	1	0	18.83	18.82	19.00	0-5	5
		1	36	18.86	18.94	18.99	0-5	5
		1	74	18.89	19.07	19.10	0-5	5
		36	0	18.72	18.81	18.97	0-5	5
		36	18	18.71	18.86	18.92	0-5	5
		36	39	18.81	18.90	18.97	0-5	5
		75	0	18.74	18.81	18.95	0-5	5

LTE FDD Band 4 _ 20 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				20050 ch. 1720 ㎒	20175 ch. 1732.5 ㎒	20300 ch. 1745 ㎒		
20 ㎒	QPSK	1	0	23.73	23.85	23.85	0	0
		1	49	23.78	23.89	23.97	0	0
		1	99	23.92	24.07	24.05	0	0
		50	0	22.81	22.90	22.93	0-1	1
		50	25	22.78	22.88	22.93	0-1	1
		50	49	22.87	22.97	23.10	0-1	1
		100	0	22.80	22.90	22.96	0-1	1
	16QAM	1	0	22.97	23.15	23.15	0-1	1
		1	49	22.97	23.20	23.29	0-1	1
		1	99	23.20	23.37	23.36	0-1	1
		50	0	21.74	21.89	21.96	0-2	2
		50	25	21.77	21.88	21.96	0-2	2
		50	49	21.88	22.03	22.08	0-2	2
		100	0	21.84	21.88	21.94	0-2	2
	64QAM	1	0	21.82	22.01	22.02	0-2	2
		1	49	21.98	21.99	22.13	0-2	2
		1	99	22.15	22.19	22.24	0-2	2
		50	0	20.80	20.90	20.90	0-3	3
		50	25	20.76	20.91	20.91	0-3	3
		50	49	20.80	20.90	20.97	0-3	3
		100	0	20.76	20.88	20.96	0-3	3
	256QAM	1	0	18.80	18.88	18.98	0-5	5
		1	49	18.77	18.94	19.01	0-5	5
		1	99	19.02	19.06	19.14	0-5	5
		50	0	18.79	18.85	18.89	0-5	5
		50	25	18.76	18.88	18.90	0-5	5
		50	49	18.86	18.92	19.04	0-5	5
		100	0	18.84	18.87	18.94	0-5	5

10.3.3 LTE FDD Band 5 Maximum Conducted Output Power

LTE FDD Band 5 _ 1.4 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.68	23.82	23.77	0	0
		1	3	23.74	23.79	23.77	0	0
		1	5	23.73	23.80	23.76	0	0
		3	0	23.72	23.81	23.78	0	0
		3	1	23.74	23.77	23.82	0	0
		3	3	23.74	23.83	23.76	0	0
		6	0	22.70	22.82	22.88	0-1	1
	16QAM	1	0	23.04	23.04	22.93	0-1	1
		1	3	23.02	23.01	23.07	0-1	1
		1	5	22.97	23.00	23.00	0-1	1
		3	0	22.82	22.93	23.02	0-1	1
		3	1	22.89	22.91	22.94	0-1	1
		3	3	22.82	22.92	22.98	0-1	1
		6	0	21.69	21.89	21.85	0-2	2
	64QAM	1	0	21.95	22.00	21.96	0-2	2
		1	3	21.82	21.97	21.99	0-2	2
		1	5	21.82	21.99	21.93	0-2	2
		3	0	21.71	21.86	21.91	0-2	2
		3	1	21.79	21.79	21.93	0-2	2
		3	3	21.73	21.89	21.88	0-2	2
		6	0	20.79	20.79	20.77	0-3	3
	256QAM	1	0	18.77	18.86	18.86	0-5	5
		1	3	18.86	18.79	18.98	0-5	5
		1	5	18.78	18.92	18.89	0-5	5
		3	0	18.77	18.92	18.96	0-5	5
		3	1	18.79	18.91	18.88	0-5	5
		3	3	18.74	18.91	18.88	0-5	5
		6	0	18.72	18.91	18.85	0-5	5

LTE FDD Band 5 _ 3 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.75	23.74	23.72	0	0
		1	7	23.71	23.76	23.68	0	0
		1	14	23.67	23.85	23.70	0	0
		8	0	22.70	22.78	22.74	0-1	1
		8	3	22.96	22.78	22.88	0-1	1
		8	7	22.80	22.78	22.70	0-1	1
		15	0	22.87	22.72	22.84	0-1	1
	16QAM	1	0	22.98	23.21	22.99	0-1	1
		1	7	23.02	23.21	23.08	0-1	1
		1	14	23.18	22.89	23.16	0-1	1
		8	0	21.84	21.83	21.88	0-2	2
		8	3	21.96	21.88	21.87	0-2	2
		8	7	21.81	21.93	21.88	0-2	2
		15	0	21.85	21.69	21.85	0-2	2
	64QAM	1	0	21.94	21.99	21.90	0-2	2
		1	7	21.83	22.01	21.89	0-2	2
		1	14	21.79	22.06	21.86	0-2	2
		8	0	20.81	20.84	20.82	0-3	3
		8	3	20.83	20.79	20.76	0-3	3
		8	7	20.78	20.82	20.80	0-3	3
		15	0	20.80	20.79	20.85	0-3	3
	256QAM	1	0	18.80	18.70	18.86	0-5	5
		1	7	18.92	18.86	18.88	0-5	5
		1	14	18.93	17.16	18.83	0-5	5
		8	0	18.76	17.16	18.76	0-5	5
		8	3	18.70	17.16	18.79	0-5	5
		8	7	18.86	17.16	18.77	0-5	5
		15	0	18.81	17.16	18.80	0-5	5

LTE FDD Band 5 _ 5 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.68	23.82	23.94	0	0
		1	12	23.72	23.75	23.88	0	0
		1	24	23.81	23.86	23.84	0	0
		12	0	22.79	22.70	22.90	0-1	1
		12	6	22.81	22.73	22.89	0-1	1
		12	11	22.79	22.72	22.82	0-1	1
		25	0	22.83	22.81	22.87	0-1	1
	16QAM	1	0	23.12	23.21	23.28	0-1	1
		1	12	23.25	23.31	23.33	0-1	1
		1	24	23.39	23.18	23.27	0-1	1
		12	0	21.83	21.85	21.97	0-2	2
		12	6	21.90	21.84	22.00	0-2	2
		12	11	21.84	21.85	21.88	0-2	2
		25	0	21.81	21.77	21.79	0-2	2
	64QAM	1	0	21.87	22.05	22.13	0-2	2
		1	12	21.87	21.91	22.01	0-2	2
		1	24	22.00	22.05	21.96	0-2	2
		12	0	20.89	20.88	20.91	0-3	3
		12	6	19.11	20.84	20.92	0-3	3
		12	11	20.89	20.82	20.81	0-3	3
		25	0	20.89	20.86	20.83	0-3	3
	256QAM	1	0	18.92	18.93	19.02	0-5	5
		1	12	18.85	18.87	18.92	0-5	5
		1	24	18.96	18.97	18.94	0-5	5
		12	0	18.78	18.75	18.85	0-5	5
		12	6	18.78	18.81	17.73	0-5	5
		12	11	18.75	18.80	17.73	0-5	5
		25	0	18.87	18.83	17.67	0-5	5

LTE FDD Band 5 _ 10 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
					20525 Ch.			
					836.5 ㎒			
10 ㎒	QPSK	1	0		V		0	0
		1	24		23.90		0	0
		1	49		23.94		0	0
		25	0		22.83		0-1	1
		25	12		22.86		0-1	1
		25	24		23.28		0-1	1
		50	0		22.87		0-1	1
	16QAM	1	0		23.32		0-1	1
		1	24		23.26		0-1	1
		1	49		23.43		0-1	1
		25	0		21.83		0-2	2
		25	12		21.83		0-2	2
		25	24		21.85		0-2	2
		50	0		21.87		0-2	2
	64QAM	1	0		22.02		0-2	2
		1	24		21.88		0-2	2
		1	49		22.03		0-2	2
		25	0		20.81		0-3	3
		25	12		20.83		0-3	3
		25	24		20.83		0-3	3
		50	0		20.86		0-3	3
	256QAM	1	0		19.01		0-5	5
		1	24		18.89		0-5	5
		1	49		19.00		0-5	5
		25	0		17.53		0-5	5
		25	12		17.53		0-5	5
		25	24		17.53		0-5	5
		50	0		17.53		0-5	5

10.3.4 LTE FDD Band 7 Maximum Conducted Output Power

LTE FDD Band 7 _ 5 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.82	23.89	23.68	0	0
		1	12	23.63	24.00	23.69	0	0
		1	24	23.55	23.95	23.71	0	0
		12	0	22.69	22.98	22.78	0-1	1
		12	6	22.74	23.00	22.74	0-1	1
		12	11	22.65	23.00	22.71	0-1	1
		25	0	22.72	23.03	22.72	0-1	1
	16QAM	1	0	22.99	23.22	22.97	0-1	1
		1	12	23.02	23.29	23.04	0-1	1
		1	24	22.91	23.26	22.94	0-1	1
		12	0	21.71	22.01	21.81	0-2	2
		12	6	21.74	22.05	21.76	0-2	2
		12	11	21.72	21.99	21.73	0-2	2
		25	0	21.68	21.98	21.72	0-2	2
	64QAM	1	0	21.86	22.08	21.84	0-2	2
		1	12	21.88	22.25	21.92	0-2	2
		1	24	21.74	22.19	21.87	0-2	2
		12	0	20.61	20.93	20.69	0-3	3
		12	6	20.73	21.05	20.78	0-3	3
		12	11	20.64	21.02	20.73	0-3	3
		25	0	20.72	20.96	20.72	0-3	3
	256QAM	1	0	18.84	18.99	18.70	0-5	5
		1	12	18.66	19.04	18.86	0-5	5
		1	24	18.67	19.05	18.85	0-5	5
		12	0	18.58	18.86	18.63	0-5	5
		12	6	18.59	18.88	18.72	0-5	5
		12	11	18.57	18.92	18.67	0-5	5
		25	0	18.57	18.94	18.75	0-5	5

LTE FDD Band 7 _ 10 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.68	23.87	23.63	0	0
		1	24	23.56	23.95	23.66	0	0
		1	49	23.58	23.88	23.67	0	0
		25	0	22.69	22.93	22.76	0-1	1
		25	12	22.58	22.92	22.74	0-1	1
		25	24	22.59	22.92	22.69	0-1	1
		50	0	22.71	23.00	22.82	0-1	1
	16QAM	1	0	22.98	23.13	23.00	0-1	1
		1	24	22.96	23.22	22.94	0-1	1
		1	49	22.81	23.26	22.98	0-1	1
		25	0	21.72	21.97	21.73	0-2	2
		25	12	21.59	21.94	21.70	0-2	2
		25	24	21.55	22.01	21.69	0-2	2
		50	0	21.69	21.98	21.73	0-2	2
	64QAM	1	0	21.87	22.03	21.87	0-2	2
		1	24	21.73	22.17	21.81	0-2	2
		1	49	21.81	22.11	21.79	0-2	2
		25	0	20.56	20.95	20.71	0-3	3
		25	12	20.61	20.95	20.63	0-3	3
		25	24	20.59	20.86	20.65	0-3	3
		50	0	20.59	20.95	20.68	0-3	3
	256QAM	1	0	18.75	19.00	18.86	0-5	5
		1	24	18.60	19.07	18.71	0-5	5
		1	49	18.72	18.97	18.82	0-5	5
		25	0	18.60	18.90	18.68	0-5	5
		25	12	18.54	18.88	18.68	0-5	5
		25	24	18.47	18.88	18.62	0-5	5
		50	0	18.55	18.91	18.73	0-5	5

LTE FDD Band 7 _ 15 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.67	23.71	23.67	0	0
		1	36	23.57	24.01	23.69	0	0
		1	74	23.50	23.82	23.67	0	0
		36	0	22.64	22.87	22.74	0-1	1
		36	18	22.56	22.96	22.67	0-1	1
		36	39	22.58	22.97	22.60	0-1	1
		75	0	22.56	22.97	22.72	0-1	1
	16QAM	1	0	23.12	23.08	22.97	0-1	1
		1	36	23.06	23.32	23.02	0-1	1
		1	74	22.82	23.10	23.02	0-1	1
		36	0	21.66	21.88	21.70	0-2	2
		36	18	21.63	21.96	21.68	0-2	2
		36	39	21.58	22.00	21.63	0-2	2
		75	0	21.57	21.90	21.73	0-2	2
	64QAM	1	0	21.89	21.99	21.85	0-2	2
		1	36	21.80	22.16	21.82	0-2	2
		1	74	21.68	22.02	21.90	0-2	2
		36	0	20.65	20.96	20.74	0-3	3
		36	18	20.55	20.98	20.67	0-3	3
		36	39	20.55	20.96	20.71	0-3	3
		75	0	20.50	20.93	20.64	0-3	3
	256QAM	1	0	18.78	18.91	18.75	0-5	5
		1	36	18.62	19.07	18.75	0-5	5
		1	74	18.57	18.94	18.80	0-5	5
		36	0	18.56	18.89	18.68	0-5	5
		36	18	18.50	18.89	18.65	0-5	5
		36	39	18.50	18.88	18.64	0-5	5
		75	0	18.59	18.85	18.67	0-5	5

LTE FDD Band 7 _ 20 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.67	23.73	23.80	0	0
		1	49	23.49	23.90	23.59	0	0
		1	99	23.48	23.78	23.62	0	0
		50	0	22.69	22.93	22.81	0-1	1
		50	25	22.66	22.99	22.75	0-1	1
		50	49	22.62	23.00	22.63	0-1	1
		100	0	22.65	22.95	22.76	0-1	1
	16QAM	1	0	23.02	23.08	23.06	0-1	1
		1	49	22.87	23.25	22.96	0-1	1
		1	99	22.86	23.19	23.02	0-1	1
		50	0	21.63	21.89	21.82	0-2	2
		50	25	21.59	21.92	21.72	0-2	2
		50	49	21.59	21.94	21.57	0-2	2
		100	0	21.60	21.90	21.69	0-2	2
	64QAM	1	0	21.79	21.97	21.98	0-2	2
		1	49	21.76	22.15	21.87	0-2	2
		1	99	21.80	21.99	21.82	0-2	2
		50	0	20.66	20.92	20.85	0-3	3
		50	25	20.62	20.99	20.67	0-3	3
		50	49	20.57	20.99	20.63	0-3	3
		100	0	20.56	20.87	20.70	0-3	3
	256QAM	1	0	18.83	18.84	18.90	0-5	5
		1	49	18.69	19.09	18.78	0-5	5
		1	99	18.73	18.92	18.76	0-5	5
		50	0	18.54	18.83	18.73	0-5	5
		50	25	18.51	18.91	18.64	0-5	5
		50	49	18.53	18.91	18.53	0-5	5
		100	0	18.54	18.89	18.62	0-5	5

10.3.5 LTE FDD Band 12 Maximum Conducted Output Power

LTE FDD Band 12 _ 1.4 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.84	24.00	23.89	0	0
		1	3	23.81	23.98	23.93	0	0
		1	5	23.88	24.01	23.87	0	0
		3	0	23.87	23.94	23.94	0	0
		3	1	23.88	23.92	23.87	0	0
		3	3	23.89	23.94	23.87	0	0
		6	0	22.82	22.94	22.96	0-1	1
	16QAM	1	0	23.19	23.09	23.10	0-1	1
		1	3	23.14	23.31	23.20	0-1	1
		1	5	23.17	23.12	23.08	0-1	1
		3	0	22.96	23.06	22.99	0-1	1
		3	1	23.03	23.07	23.08	0-1	1
		3	3	23.01	23.10	23.00	0-1	1
		6	0	21.86	22.12	22.04	0-2	2
	64QAM	1	0	22.06	22.13	22.09	0-2	2
		1	3	22.14	22.22	22.18	0-2	2
		1	5	22.01	22.14	22.07	0-2	2
		3	0	21.98	22.08	22.01	0-2	2
		3	1	21.95	22.05	22.08	0-2	2
		3	3	22.06	22.09	22.01	0-2	2
		6	0	20.87	20.93	20.99	0-3	3
	256QAM	1	0	18.97	19.14	19.21	0-5	5
		1	3	19.02	19.16	19.07	0-5	5
		1	5	18.96	19.04	19.26	0-5	5
		3	0	18.96	19.47	18.76	0-5	5
		3	1	18.92	19.11	18.93	0-5	5
		3	3	18.93	19.12	18.86	0-5	5
		6	0	18.79	19.05	18.97	0-5	5

LTE FDD Band 12 _ 3 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23025 Ch. 700.5 MHz	23095 Ch. 707.5 MHz	23165 Ch. 714.5 MHz		
3 MHz	QPSK	1	0	23.88	23.89	23.87	0	0
		1	7	23.87	23.96	23.94	0	0
		1	14	23.91	23.89	23.89	0	0
		8	0	22.90	22.93	22.94	0-1	1
		8	3	22.90	22.93	22.86	0-1	1
		8	7	22.83	22.85	22.90	0-1	1
		15	0	22.96	22.92	22.90	0-1	1
	16QAM	1	0	23.14	23.14	23.10	0-1	1
		1	7	23.08	23.05	23.02	0-1	1
		1	14	23.10	23.11	23.16	0-1	1
		8	0	22.06	22.09	22.02	0-2	2
		8	3	21.99	22.03	22.02	0-2	2
		8	7	22.04	22.07	22.09	0-2	2
		15	0	22.04	21.96	21.93	0-2	2
	64QAM	1	0	22.09	22.14	22.12	0-2	2
		1	7	22.14	22.23	22.11	0-2	2
		1	14	22.03	22.20	22.06	0-2	2
		8	0	20.93	20.95	21.01	0-3	3
		8	3	20.93	20.96	20.89	0-3	3
		8	7	20.90	20.97	20.99	0-3	3
		15	0	20.98	20.99	20.99	0-3	3
	256QAM	1	0	19.02	19.03	19.10	0-5	5
		1	7	19.07	19.12	19.07	0-5	5
		1	14	18.88	19.07	19.07	0-5	5
		8	0	18.95	18.95	18.92	0-5	5
		8	3	18.96	18.95	18.92	0-5	5
		8	7	18.91	18.95	18.92	0-5	5
		15	0	18.97	18.95	18.92	0-5	5

LTE FDD Band 12 _ 5 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23035 Ch. 701.5 ㎒	23095 Ch. 707.5 ㎒	23155 Ch. 713.5 ㎒		
5 ㎒	QPSK	1	0	23.90	23.91	23.93	0	0
		1	12	23.87	24.04	23.86	0	0
		1	24	23.96	23.99	23.87	0	0
		12	0	22.93	22.89	22.94	0-1	1
		12	6	22.86	22.91	22.92	0-1	1
		12	11	22.88	22.87	22.92	0-1	1
		25	0	22.92	22.97	22.83	0-1	1
	16QAM	1	0	23.20	23.15	23.25	0-1	1
		1	12	23.02	23.13	23.31	0-1	1
		1	24	23.34	23.10	23.16	0-1	1
		12	0	22.03	22.07	21.98	0-2	2
		12	6	21.95	22.06	21.97	0-2	2
		12	11	21.94	22.01	21.99	0-2	2
		25	0	21.97	21.97	21.95	0-2	2
	64QAM	1	0	22.10	22.19	22.14	0-2	2
		1	12	22.11	22.21	22.12	0-2	2
		1	24	22.19	22.13	22.15	0-2	2
		12	0	20.93	21.01	20.97	0-3	3
		12	6	20.94	21.04	21.01	0-3	3
		12	11	20.83	20.97	20.96	0-3	3
		25	0	20.93	20.93	20.96	0-3	3
	256QAM	1	0	18.93	19.04	19.12	0-5	5
		1	12	19.01	19.12	19.03	0-5	5
		1	24	19.06	19.06	19.05	0-5	5
		12	0	18.89	18.90	19.05	0-5	5
		12	6	18.91	18.90	19.05	0-5	5
		12	11	18.85	18.90	18.86	0-5	5
		25	0	18.94	18.90	18.94	0-5	5

LTE FDD Band 12 _ 10 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm] 23095 Ch. 707.5 ㎒	MPR Allowed Per 3GPP [dB]	MPR [dB]
10 ㎒	QPSK	1	0	23.85	0	0
		1	24	23.92	0	0
		1	49	23.93	0	0
		25	0	22.92	0-1	1
		25	12	22.93	0-1	1
		25	24	22.84	0-1	1
		50	0	22.96	0-1	1
	16QAM	1	0	23.01	0-1	1
		1	24	23.26	0-1	1
		1	49	23.08	0-1	1
		25	0	21.96	0-2	2
		25	12	21.97	0-2	2
		25	24	21.90	0-2	2
		50	0	21.98	0-2	2
	64QAM	1	0	21.98	0-2	2
		1	24	22.16	0-2	2
		1	49	22.18	0-2	2
		25	0	20.97	0-3	3
		25	12	20.97	0-3	3
		25	24	20.97	0-3	3
		50	0	20.93	0-3	3
	256QAM	1	0	19.00	0-5	5
		1	24	19.04	0-5	5
		1	49	18.95	0-5	5
		25	0	18.98	0-5	5
		25	12	18.92	0-5	5
		25	24	18.84	0-5	5
		50	0	18.92	0-5	5

10.3.6 LTE FDD Band 17 Conducted Power

LTE FDD Band 17 _ 5 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				23755 Ch. 706.5 ㎒	23790 Ch. 710 ㎒	23825 Ch. 713.5 ㎒		
5 ㎒	QPSK	1	0	23.95	24.08	24.13	0	0
		1	12	24.05	24.19	24.17	0	0
		1	24	24.02	24.10	24.01	0	0
		12	0	23.01	23.13	23.02	0-1	1
		12	6	23.00	23.13	23.06	0-1	1
		12	11	22.96	23.10	22.99	0-1	1
		25	0	23.04	23.16	23.03	0-1	1
	16QAM	1	0	23.24	23.25	23.37	0-1	1
		1	12	23.32	23.29	23.34	0-1	1
		1	24	23.40	23.37	23.35	0-1	1
		12	0	22.16	22.22	22.15	0-2	2
		12	6	22.19	22.23	22.12	0-2	2
		12	11	22.10	22.21	22.05	0-2	2
		25	0	22.05	22.19	22.10	0-2	2
	64QAM	1	0	22.26	22.27	22.37	0-2	2
		1	12	22.28	22.41	22.29	0-2	2
		1	24	22.24	22.34	22.15	0-2	2
		12	0	21.11	21.20	21.27	0-3	3
		12	6	21.13	21.19	21.10	0-3	3
		12	11	21.07	21.21	21.08	0-3	3
		25	0	21.04	21.17	21.16	0-3	3
	256QAM	1	0	19.20	19.20	19.08	0-5	5
		1	12	19.14	19.33	19.46	0-5	5
		1	24	19.28	19.13	19.21	0-5	5
		12	0	19.04	19.22	19.26	0-5	5
		12	6	19.05	19.08	19.21	0-5	5
		12	11	18.99	19.06	18.99	0-5	5
		25	0	19.08	19.08	19.09	0-5	5

LTE FDD Band 17 _ 10 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
					23790 Ch. 710 ㎒			
10 ㎒	QPSK	1	0		24.00		0	0
		1	24		24.09		0	0
		1	49		24.00		0	0
		25	0		23.11		0-1	1
		25	12		23.10		0-1	1
		25	24		23.03		0-1	1
		50	0		23.09		0-1	1
	16QAM	1	0		23.27		0-1	1
		1	24		23.34		0-1	1
		1	49		23.23		0-1	1
		25	0		22.10		0-2	2
		25	12		22.06		0-2	2
		25	24		22.10		0-2	2
		50	0		22.06		0-2	2
	64QAM	1	0		22.22		0-2	2
		1	24		22.28		0-2	2
		1	49		22.18		0-2	2
		25	0		21.08		0-3	3
		25	12		21.02		0-3	3
		25	24		21.04		0-3	3
		50	0		21.06		0-3	3
	256QAM	1	0		19.04		0-5	5
		1	24		19.19		0-5	5
		1	49		19.04		0-5	5
		25	0		19.11		0-5	5
		25	12		19.01		0-5	5
		25	24		19.06		0-5	5
		50	0		19.00		0-5	5

10.3.7 LTE FDD Band 25 Maximum Conducted Output Power

LTE FDD Band 25 _ 1.4 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.86	23.63	23.94	0	0
		1	3	23.87	23.68	23.86	0	0
		1	5	23.82	23.62	23.86	0	0
		3	0	23.88	23.64	23.94	0	0
		3	1	23.88	23.60	23.87	0	0
		3	3	23.90	23.62	23.90	0	0
		6	0	22.89	22.60	22.90	0-1	1
	16QAM	1	0	23.18	22.84	23.13	0-1	1
		1	3	23.25	22.99	23.24	0-1	1
		1	5	23.16	22.82	23.02	0-1	1
		3	0	22.98	22.79	23.00	0-1	1
		3	1	22.95	22.76	23.05	0-1	1
		3	3	22.97	22.69	22.97	0-1	1
		6	0	21.93	21.70	21.92	0-2	2
	64QAM	1	0	22.01	21.84	22.02	0-2	2
		1	3	22.04	21.82	22.06	0-2	2
		1	5	21.99	21.79	22.00	0-2	2
		3	0	21.93	21.64	21.95	0-2	2
		3	1	22.03	21.67	21.96	0-2	2
		3	3	21.92	21.62	21.86	0-2	2
		6	0	20.88	20.59	20.92	0-3	3
	256QAM	1	0	18.90	18.74	19.00	0-5	5
		1	3	18.97	18.81	19.02	0-5	5
		1	5	18.94	18.77	18.95	0-5	5
		3	0	18.89	18.69	18.90	0-5	5
		3	1	18.98	18.67	18.89	0-5	5
		3	3	18.88	18.69	18.93	0-5	5
		6	0	18.83	18.54	18.71	0-5	5

LTE FDD Band 25 _ 3 MHz Bandwidth Conducted Power

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	23.84	23.58	23.88	0	0
		1	7	23.88	23.60	23.89	0	0
		1	14	23.85	23.59	23.90	0	0
		8	0	22.88	22.66	22.91	0-1	1
		8	3	22.84	22.60	22.85	0-1	1
		8	7	22.81	22.60	22.83	0-1	1
		15	0	22.89	22.61	22.92	0-1	1
	16QAM	1	0	23.15	22.90	23.02	0-1	1
		1	7	23.04	22.84	23.19	0-1	1
		1	14	23.13	22.98	23.10	0-1	1
		8	0	21.92	21.72	21.94	0-2	2
		8	3	21.95	21.71	21.92	0-2	2
		8	7	21.89	21.75	21.91	0-2	2
		15	0	21.93	21.64	21.86	0-2	2
	64QAM	1	0	22.14	21.78	21.98	0-2	2
		1	7	22.00	21.93	22.07	0-2	2
		1	14	22.01	21.72	22.02	0-2	2
		8	0	20.89	20.73	20.95	0-3	3
		8	3	20.90	20.59	20.84	0-3	3
		8	7	20.88	20.67	20.84	0-3	3
		15	0	20.93	20.68	20.88	0-3	3
	256QAM	1	0	18.91	18.79	18.92	0-5	5
		1	7	19.02	18.80	19.00	0-5	5
		1	14	18.95	18.69	18.95	0-5	5
		8	0	18.87	18.68	18.84	0-5	5
		8	3	18.90	18.55	18.80	0-5	5
		8	7	18.80	18.58	18.88	0-5	5
		15	0	18.85	18.66	18.87	0-5	5

LTE FDD Band 25 _ 5 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.93	23.63	23.92	0	0
		1	12	23.86	23.65	23.87	0	0
		1	24	23.87	23.68	23.84	0	0
		12	0	22.92	22.65	22.95	0-1	1
		12	6	22.85	22.62	22.93	0-1	1
		12	11	22.80	22.57	22.86	0-1	1
		25	0	22.94	22.67	22.86	0-1	1
	16QAM	1	0	23.07	22.84	23.09	0-1	1
		1	12	23.05	22.79	23.17	0-1	1
		1	24	23.07	22.98	23.18	0-1	1
		12	0	21.88	21.71	22.02	0-2	2
		12	6	21.90	21.67	21.97	0-2	2
		12	11	21.86	21.67	21.87	0-2	2
		25	0	21.84	21.68	21.82	0-2	2
	64QAM	1	0	22.03	21.82	22.01	0-2	2
		1	12	22.04	21.82	22.03	0-2	2
		1	24	21.98	21.88	22.04	0-2	2
		12	0	20.97	20.70	20.89	0-3	3
		12	6	20.88	20.68	20.89	0-3	3
		12	11	20.83	20.65	20.81	0-3	3
		25	0	20.81	20.66	20.75	0-3	3
	256QAM	1	0	19.04	18.78	18.94	0-5	5
		1	12	19.00	18.72	19.03	0-5	5
		1	24	18.95	18.79	18.96	0-5	5
		12	0	18.80	18.63	18.86	0-5	5
		12	6	18.82	18.62	18.88	0-5	5
		12	11	18.78	18.56	18.81	0-5	5
		25	0	18.90	18.64	18.84	0-5	5

LTE FDD Band 25 _ 10 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.80	23.71	23.73	0	0
		1	24	23.79	23.66	23.88	0	0
		1	49	23.86	23.68	23.95	0	0
		25	0	22.85	22.65	22.83	0-1	1
		25	12	22.81	22.68	22.85	0-1	1
		25	24	22.86	22.67	22.84	0-1	1
		50	0	22.84	22.66	22.82	0-1	1
	16QAM	1	0	23.15	22.92	22.99	0-1	1
		1	24	23.11	22.89	23.15	0-1	1
		1	49	23.05	22.76	23.32	0-1	1
		25	0	21.84	21.65	21.78	0-2	2
		25	12	21.84	21.62	21.89	0-2	2
		25	24	21.84	21.67	21.71	0-2	2
		50	0	21.85	21.65	21.78	0-2	2
	64QAM	1	0	21.96	21.84	21.93	0-2	2
		1	24	21.93	21.81	21.96	0-2	2
		1	49	22.05	21.84	22.03	0-2	2
		25	0	20.75	20.60	20.78	0-3	3
		25	12	20.80	20.61	20.78	0-3	3
		25	24	20.80	20.61	20.77	0-3	3
		50	0	20.84	20.66	20.75	0-3	3
	256QAM	1	0	18.95	18.69	18.79	0-5	5
		1	24	18.89	18.73	18.94	0-5	5
		1	49	18.98	18.71	18.90	0-5	5
		25	0	18.81	18.63	18.75	0-5	5
		25	12	18.76	18.58	18.80	0-5	5
		25	24	18.85	18.65	18.74	0-5	5
		50	0	18.86	18.62	18.73	0-5	5

LTE FDD Band 25 _ 15 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.86	23.77	23.63	0	0
		1	36	23.81	23.70	23.74	0	0
		1	74	23.85	23.64	23.81	0	0
		36	0	22.80	22.63	22.61	0-1	1
		36	18	22.84	22.63	22.76	0-1	1
		36	39	22.79	22.62	22.72	0-1	1
		75	0	22.79	22.65	22.74	0-1	1
	16QAM	1	0	23.10	23.04	22.95	0-1	1
		1	36	23.07	22.84	23.09	0-1	1
		1	74	23.10	22.95	23.22	0-1	1
		36	0	21.80	21.60	21.65	0-2	2
		36	18	21.77	21.65	21.79	0-2	2
		36	39	21.82	21.64	21.75	0-2	2
		75	0	21.79	21.66	21.76	0-2	2
	64QAM	1	0	21.93	21.95	21.89	0-2	2
		1	36	21.95	21.84	21.93	0-2	2
		1	74	22.03	21.90	22.08	0-2	2
		36	0	20.86	20.64	20.68	0-3	3
		36	18	20.80	20.61	20.81	0-3	3
		36	39	20.79	20.69	20.74	0-3	3
		75	0	20.76	20.58	20.72	0-3	3
	256QAM	1	0	18.97	18.87	18.77	0-5	5
		1	36	18.87	18.73	18.78	0-5	5
		1	74	18.93	18.78	19.00	0-5	5
		36	0	18.79	18.65	18.64	0-5	5
		36	18	18.82	18.59	18.69	0-5	5
		36	39	18.84	18.65	18.80	0-5	5
		75	0	18.82	18.60	18.74	0-5	5

LTE FDD Band 25 _ 20 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.85	23.75	23.61	0	0
		1	49	23.85	23.67	23.76	0	0
		1	99	23.85	23.68	23.97	0	0
		50	0	22.94	22.63	22.72	0-1	1
		50	25	22.85	22.64	22.80	0-1	1
		50	49	22.90	22.67	22.72	0-1	1
		100	0	22.82	22.66	22.69	0-1	1
	16QAM	1	0	23.22	22.92	22.98	0-1	1
		1	49	23.07	22.96	22.97	0-1	1
		1	99	23.08	22.86	23.35	0-1	1
		50	0	21.88	21.68	21.72	0-2	2
		50	25	21.89	21.70	21.70	0-2	2
		50	49	21.85	21.64	21.71	0-2	2
		100	0	21.79	21.68	21.68	0-2	2
	64QAM	1	0	21.97	21.89	21.84	0-2	2
		1	49	21.99	21.85	21.93	0-2	2
		1	99	21.92	21.82	22.14	0-2	2
		50	0	20.81	20.68	20.65	0-3	3
		50	25	20.86	20.68	20.74	0-3	3
		50	49	20.86	20.66	20.71	0-3	3
		100	0	20.79	20.64	20.64	0-3	3
	256QAM	1	0	18.94	18.80	18.72	0-5	5
		1	49	18.94	18.77	18.87	0-5	5
		1	99	18.89	18.78	19.01	0-5	5
		50	0	18.85	18.70	18.71	0-5	5
		50	25	18.88	18.69	18.66	0-5	5
		50	49	18.79	18.70	18.75	0-5	5
		100	0	18.84	18.64	18.72	0-5	5

10.3.8 LTE FDD Band 26 Maximum Conducted Output Power

LTE FDD Band 26 _ 1.4 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	24.01	23.94	23.75	0	0
		1	3	23.83	23.95	23.74	0	0
		1	5	23.83	23.93	23.77	0	0
		3	0	23.84	23.83	23.84	0	0
		3	1	23.79	23.98	23.86	0	0
		3	3	23.80	23.85	23.82	0	0
		6	0	22.84	22.93	22.87	0-1	1
	16QAM	1	0	23.10	23.31	23.21	0-1	1
		1	3	23.18	23.24	23.24	0-1	1
		1	5	23.17	23.45	23.12	0-1	1
		3	0	22.94	23.06	22.87	0-1	1
		3	1	23.00	23.03	22.92	0-1	1
		3	3	22.96	22.98	22.93	0-1	1
		6	0	21.90	21.89	21.91	0-2	2
	64QAM	1	0	22.05	22.17	21.90	0-2	2
		1	3	22.06	22.13	21.92	0-2	2
		1	5	22.02	22.12	21.92	0-2	2
		3	0	21.84	22.02	21.87	0-2	2
		3	1	21.87	22.06	21.84	0-2	2
		3	3	21.87	21.99	21.83	0-2	2
		6	0	20.89	21.02	20.82	0-3	3
	256QAM	1	0	18.96	18.98	19.00	0-5	5
		1	3	19.06	19.00	18.98	0-5	5
		1	5	18.95	18.86	19.01	0-5	5
		3	0	18.96	18.97	19.01	0-5	5
		3	1	18.83	18.97	19.01	0-5	5
		3	3	18.83	18.99	19.01	0-5	5
		6	0	18.81	18.99	19.01	0-5	5

LTE FDD Band 26 _ 3 MHz Bandwidth Conducted Power

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	23.89	23.88	23.87	0	0
		1	7	23.81	23.73	23.94	0	0
		1	14	23.73	23.74	23.89	0	0
		8	0	22.86	22.87	22.88	0-1	1
		8	3	22.87	22.82	22.89	0-1	1
		8	7	22.82	22.75	22.82	0-1	1
		15	0	22.82	22.82	22.86	0-1	1
	16QAM	1	0	23.12	23.27	23.23	0-1	1
		1	7	23.29	23.27	23.02	0-1	1
		1	14	23.19	23.29	23.06	0-1	1
		8	0	21.94	21.77	22.01	0-2	2
		8	3	21.92	21.88	21.96	0-2	2
		8	7	21.92	21.89	21.92	0-2	2
		15	0	21.86	21.87	21.88	0-2	2
	64QAM	1	0	22.06	22.00	21.99	0-2	2
		1	7	22.10	22.06	22.04	0-2	2
		1	14	22.00	22.00	21.83	0-2	2
		8	0	20.89	20.79	20.82	0-3	3
		8	3	20.83	20.80	20.90	0-3	3
		8	7	20.85	20.86	20.82	0-3	3
		15	0	20.83	20.94	20.80	0-3	3
	256QAM	1	0	18.95	19.11	18.99	0-5	5
		1	7	18.95	18.92	19.02	0-5	5
		1	14	18.95	18.88	18.94	0-5	5
		8	0	18.95	18.92	18.84	0-5	5
		8	3	18.95	18.83	18.82	0-5	5
		8	7	18.95	18.80	18.82	0-5	5
		15	0	18.95	18.83	18.82	0-5	5

LTE FDD Band 26 _ 5 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.91	23.95	23.94	0	0
		1	12	23.88	23.99	23.91	0	0
		1	24	23.78	23.88	23.86	0	0
		12	0	22.74	22.96	22.97	0-1	1
		12	6	22.84	22.95	22.92	0-1	1
		12	11	22.82	22.83	22.89	0-1	1
		25	0	22.86	22.85	22.95	0-1	1
	16QAM	1	0	23.24	23.16	23.25	0-1	1
		1	12	23.34	23.36	23.39	0-1	1
		1	24	23.07	23.14	23.25	0-1	1
		12	0	21.86	21.96	22.05	0-2	2
		12	6	21.94	21.98	21.98	0-2	2
		12	11	21.87	21.90	21.95	0-2	2
		25	0	21.79	21.90	21.85	0-2	2
	64QAM	1	0	22.09	22.17	22.15	0-2	2
		1	12	22.05	22.06	22.09	0-2	2
		1	24	21.98	21.97	22.07	0-2	2
		12	0	20.87	21.00	20.97	0-3	3
		12	6	20.84	20.84	20.87	0-3	3
		12	11	20.82	20.87	20.83	0-3	3
		25	0	20.83	20.86	20.97	0-3	3
	256QAM	1	0	18.97	18.93	19.02	0-5	5
		1	12	19.03	18.78	18.88	0-5	5
		1	24	18.88	18.85	18.92	0-5	5
		12	0	18.83	18.96	18.88	0-5	5
		12	6	18.80	18.93	18.89	0-5	5
		12	11	18.78	18.91	18.91	0-5	5
		25	0	18.75	19.02	18.93	0-5	5

LTE FDD Band 26 _ 10 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				26740 Ch. 819 ㎒	26865 Ch. 831.5 ㎒	26990 Ch. 844 ㎒		
10 ㎒	QPSK	1	0	23.94	23.90	23.92	0	0
		1	24	23.87	23.98	23.92	0	0
		1	49	23.68	23.97	23.85	0	0
		25	0	22.66	22.98	23.03	0-1	1
		25	12	22.81	22.95	22.98	0-1	1
		25	24	22.73	22.90	22.99	0-1	1
		50	0	22.73	22.92	22.98	0-1	1
	16QAM	1	0	23.23	23.32	23.27	0-1	1
		1	24	23.10	23.28	23.28	0-1	1
		1	49	23.23	23.33	23.19	0-1	1
		25	0	21.76	21.94	22.14	0-2	2
		25	12	21.77	21.93	21.99	0-2	2
		25	24	21.68	21.88	21.93	0-2	2
		50	0	21.77	21.95	21.97	0-2	2
	64QAM	1	0	21.77	22.12	22.24	0-2	2
		1	24	22.03	22.17	22.18	0-2	2
		1	49	22.07	22.14	22.04	0-2	2
		25	0	20.73	20.92	20.99	0-3	3
		25	12	20.76	20.89	20.98	0-3	3
		25	24	20.62	20.97	20.92	0-3	3
		50	0	20.73	20.94	20.91	0-3	3
	256QAM	1	0	18.93	19.03	18.97	0-5	5
		1	24	18.94	18.99	19.06	0-5	5
		1	49	18.82	18.96	18.98	0-5	5
		25	0	18.72	18.96	19.06	0-5	5
		25	12	18.80	18.96	18.95	0-5	5
		25	24	18.69	18.96	18.89	0-5	5
		50	0	18.77	18.96	19.01	0-5	5

LTE FDD Band 26 _ 15 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm] 26865 Ch. 831.5 ㎒	MPR Allowed Per 3GPP [dB]	MPR [dB]
15 ㎒	QPSK	1	0	23.78	0	0
		1	36	23.81	0	0
		1	74	23.79	0	0
		36	0	22.83	0-1	1
		36	18	22.76	0-1	1
		36	39	22.82	0-1	1
		75	0	22.83	0-1	1
	16QAM	1	0	23.23	0-1	1
		1	36	23.25	0-1	1
		1	74	23.21	0-1	1
		36	0	21.88	0-2	2
		36	18	21.78	0-2	2
		36	39	21.88	0-2	2
		75	0	21.84	0-2	2
	64QAM	1	0	21.82	0-2	2
		1	36	22.09	0-2	2
		1	74	21.94	0-2	2
		36	0	20.95	0-3	3
		36	18	20.93	0-3	3
		36	39	20.88	0-3	3
		75	0	20.81	0-3	3
	256QAM	1	0	18.84	0-5	5
		1	36	18.90	0-5	5
		1	74	18.92	0-5	5
		36	0	18.90	0-5	5
		36	18	18.74	0-5	5
		36	39	18.81	0-5	5
		75	0	18.84	0-5	5

10.3.9 LTE TDD Band 38 Maximum Conducted Output Power

LTE TDD Band 38 _ 5 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.71	23.85	23.73	0	0
		1	12	23.75	23.84	23.75	0	0
		1	24	23.72	23.80	23.69	0	0
		12	0	22.68	22.79	22.67	0-1	1
		12	6	22.67	22.80	22.70	0-1	1
		12	11	22.66	22.78	22.68	0-1	1
		25	0	22.70	22.82	22.74	0-1	1
	16QAM	1	0	22.69	22.83	22.72	0-1	1
		1	12	22.73	22.86	22.74	0-1	1
		1	24	22.73	22.82	22.70	0-1	1
		12	0	21.57	21.73	21.61	0-2	2
		12	6	21.58	21.71	21.61	0-2	2
		12	11	21.54	21.68	21.61	0-2	2
		25	0	21.70	21.78	21.74	0-2	2
	64QAM	1	0	21.27	21.40	21.34	0-2	2
		1	12	21.29	21.43	21.33	0-2	2
		1	24	21.26	21.37	21.30	0-2	2
		12	0	21.00	21.12	20.98	0-3	3
		12	6	21.00	21.10	20.99	0-3	3
		12	11	20.95	21.09	20.97	0-3	3
		25	0	21.05	21.14	21.04	0-3	3
	256QAM	1	0	18.72	18.85	18.79	0-5	5
		1	12	18.75	18.89	18.77	0-5	5
		1	24	18.74	18.83	18.76	0-5	5
		12	0	19.10	19.21	19.07	0-5	5
		12	6	19.12	19.21	19.08	0-5	5
		12	11	19.06	19.20	19.06	0-5	5
		25	0	19.06	19.15	19.03	0-5	5

LTE TDD Band 38 _ 10 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.15	23.84	23.74	0	0
		1	24	23.70	23.83	23.73	0	0
		1	49	23.70	23.77	23.68	0	0
		25	0	22.67	22.84	22.74	0-1	1
		25	12	22.68	22.78	22.73	0-1	1
		25	24	22.65	22.78	22.72	0-1	1
		50	0	22.70	22.78	22.74	0-1	1
	16QAM	1	0	22.72	22.84	22.76	0-1	1
		1	24	22.72	22.82	22.73	0-1	1
		1	49	22.73	22.79	22.68	0-1	1
		25	0	21.69	21.84	21.70	0-2	2
		25	12	21.72	21.80	21.72	0-2	2
		25	24	21.69	21.77	21.73	0-2	2
		50	0	21.67	21.76	21.73	0-2	2
	64QAM	1	0	21.26	21.43	21.39	0-2	2
		1	24	21.25	21.37	21.31	0-2	2
		1	49	21.30	21.37	21.32	0-2	2
		25	0	21.06	21.16	21.04	0-3	3
		25	12	21.06	21.14	21.02	0-3	3
		25	24	21.02	21.08	21.00	0-3	3
		50	0	21.09	21.17	21.09	0-3	3
	256QAM	1	0	18.73	18.88	18.77	0-5	5
		1	24	18.73	18.85	18.79	0-5	5
		1	49	18.75	18.83	18.75	0-5	5
		25	0	19.06	19.16	19.02	0-5	5
		25	12	19.05	19.12	19.02	0-5	5
		25	24	19.02	19.09	19.00	0-5	5
		50	0	19.10	19.19	19.08	0-5	5

LTE TDD Band 38 _ 15 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				37825 Ch. 2577.5 ㎒	38000 Ch. 2595 ㎒	38175 Ch. 2612.5 ㎒		
15 ㎒	QPSK	1	0	23.19	23.80	23.77	0	0
		1	36	23.75	23.85	23.79	0	0
		1	74	23.74	23.76	23.66	0	0
		36	0	22.63	22.77	22.77	0-1	1
		36	18	22.68	22.77	22.68	0-1	1
		36	39	22.70	22.77	22.66	0-1	1
		75	0	22.71	22.79	22.76	0-1	1
	16QAM	1	0	22.73	22.87	22.81	0-1	1
		1	36	22.81	22.85	22.79	0-1	1
		1	74	22.79	22.79	22.68	0-1	1
		36	0	21.57	21.70	21.65	0-2	2
		36	18	21.62	21.68	21.61	0-2	2
		36	39	21.63	21.65	21.59	0-2	2
		75	0	21.63	21.73	21.71	0-2	2
	64QAM	1	0	21.26	21.42	21.39	0-2	2
		1	36	21.28	21.46	21.37	0-2	2
		1	74	21.31	21.38	21.29	0-2	2
		36	0	21.03	21.21	21.06	0-3	3
		36	18	21.06	21.13	21.05	0-3	3
		36	39	21.08	21.16	21.00	0-3	3
		75	0	21.02	21.14	21.07	0-3	3
	256QAM	1	0	18.73	18.87	18.85	0-5	5
		1	36	18.75	18.85	18.79	0-5	5
		1	74	18.79	18.81	18.74	0-5	5
		36	0	19.01	19.17	19.04	0-5	5
		36	18	19.05	19.11	19.04	0-5	5
		36	39	19.06	19.12	19.00	0-5	5
		75	0	19.02	19.12	19.01	0-5	5

LTE TDD Band 38 _ 20 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				37850 2580 ㎒	38000 Ch. 2595 ㎒	38150 Ch. 2610 ㎒		
20 ㎒	QPSK	1	0	23.71	23.79	23.86	0	0
		1	49	23.76	23.85	23.78	0	0
		1	99	23.77	23.80	23.65	0	0
		50	0	22.74	22.82	22.81	0-1	1
		50	25	22.74	22.81	22.77	0-1	1
		50	49	22.78	22.84	22.73	0-1	1
		100	0	22.74	22.83	22.75	0-1	1
	16QAM	1	0	22.74	22.83	22.87	0-1	1
		1	49	22.79	22.84	22.78	0-1	1
		1	99	22.81	22.82	22.68	0-1	1
		50	0	21.72	21.80	21.81	0-2	2
		50	25	21.72	21.78	21.78	0-2	2
		50	49	21.74	21.81	21.74	0-2	2
		100	0	21.75	21.82	21.76	0-2	2
	64QAM	1	0	21.28	21.41	21.47	0-2	2
		1	49	21.31	21.39	21.38	0-2	2
		1	99	21.35	21.38	21.30	0-2	2
		50	0	21.12	21.20	21.21	0-3	3
		50	25	21.14	21.20	21.18	0-3	3
		50	49	21.16	21.16	21.09	0-3	3
		100	0	21.13	21.18	21.10	0-3	3
	256QAM	1	0	18.75	18.86	18.88	0-5	5
		1	49	18.78	18.87	18.79	0-5	5
		1	99	18.82	18.80	18.74	0-5	5
		50	0	19.13	19.19	19.16	0-5	5
		50	25	19.13	19.18	19.11	0-5	5
		50	49	19.13	19.14	19.09	0-5	5
		100	0	19.09	19.10	19.07	0-5	5

10.3.10 LTE TDD Band 41 Maximum Conducted Output Power

LTE TDD Band 41 _ 5 MHz Bandwidth Conducted Power

Band width	Modulation	RB Size	RB Offset	Max. Average Power [dBm]					MPR Allowed Per 3GPP [dB]	MPR [dB]
				39750 Ch. 2506.0 MHz	40185 Ch. 2549.5 MHz	40620 Ch. 2593.0 MHz	41055 Ch. 2636.5 MHz	41490 Ch. 2680.0 MHz		
20 MHz	QPSK	1	0	23.70	23.84	23.90	23.72	23.79	0	0
		1	12	23.70	23.85	23.95	23.74	23.83	0	0
		1	24	23.69	23.78	23.87	23.71	23.77	0	0
		12	0	22.65	22.80	22.82	22.70	22.78	0-1	1
		12	6	22.65	22.78	22.82	22.70	22.77	0-1	1
		12	11	22.67	22.76	22.83	22.68	22.72	0-1	1
		25	0	22.68	22.80	22.89	22.73	22.78	0-1	1
	16QAM	1	0	22.69	22.82	22.89	22.70	22.75	0-1	1
		1	12	22.76	22.87	22.94	22.73	22.84	0-1	1
		1	24	22.69	22.79	22.88	22.73	22.76	0-1	1
		12	0	21.55	21.72	21.75	21.62	21.70	0-2	2
		12	6	21.53	21.70	21.74	21.61	21.68	0-2	2
		12	11	21.59	21.65	21.74	21.59	21.66	0-2	2
		25	0	21.70	21.81	21.88	21.71	21.76	0-2	2
	64QAM	1	0	21.29	21.47	21.46	21.33	21.42	0-2	2
		1	12	21.30	21.44	21.50	21.37	21.45	0-2	2
		1	24	21.28	21.36	21.45	21.33	21.41	0-2	2
		12	0	20.95	21.07	21.21	20.94	21.08	0-3	3
		12	6	20.96	21.07	21.21	20.95	21.08	0-3	3
		12	11	20.95	21.04	21.18	20.98	21.08	0-3	3
		25	0	20.98	21.09	21.23	21.02	21.17	0-3	3
	256QAM	1	0	18.73	18.94	18.95	18.75	18.92	0-5	5
		1	12	18.76	18.87	18.99	18.75	18.93	0-5	5
		1	24	18.72	18.81	18.94	18.75	18.91	0-5	5
		12	0	19.05	19.19	19.31	19.04	19.18	0-5	5
		12	6	19.06	19.16	19.31	19.05	19.17	0-5	5
		12	11	19.03	19.13	19.25	19.06	19.16	0-5	5
		25	0	18.99	19.11	19.20	19.00	19.14	0-5	5

LTE TDD Band 41 _ 10 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.67	23.84	23.88	23.74	23.81	0	0
		1	24	23.62	23.80	23.88	23.73	23.77	0	0
		1	49	23.63	23.74	23.85	23.74	23.74	0	0
		25	0	22.65	22.86	22.86	22.74	22.82	0-1	1
		25	12	22.69	22.79	22.84	22.74	22.78	0-1	1
		25	24	22.65	22.77	22.88	22.73	22.80	0-1	1
		50	0	22.67	22.81	22.88	22.75	22.80	0-1	1
	16QAM	1	0	22.75	22.89	22.89	22.74	22.79	0-1	1
		1	24	22.67	22.85	22.89	22.73	22.79	0-1	1
		1	49	22.69	22.80	22.85	22.74	22.77	0-1	1
		25	0	21.68	21.87	21.87	21.76	21.83	0-2	2
		25	12	21.65	21.83	21.84	21.75	21.80	0-2	2
		25	24	21.70	21.77	21.87	21.74	21.79	0-2	2
		50	0	21.66	21.80	21.88	21.77	21.80	0-2	2
	64QAM	1	0	21.30	21.52	21.46	21.39	21.46	0-2	2
		1	24	21.26	21.44	21.45	21.35	21.41	0-2	2
		1	49	21.30	21.36	21.44	21.36	21.41	0-2	2
		25	0	20.97	21.15	21.29	21.04	21.15	0-3	3
		25	12	20.97	21.13	21.25	21.05	21.11	0-3	3
		25	24	20.93	21.09	21.20	21.02	21.10	0-3	3
		50	0	21.00	21.15	21.32	21.11	21.21	0-3	3
	256QAM	1	0	18.69	18.97	18.95	18.76	18.94	0-5	5
		1	24	18.71	18.86	18.96	18.75	18.93	0-5	5
		1	49	18.71	18.81	18.93	18.79	18.91	0-5	5
		25	0	18.98	19.12	19.25	19.01	19.16	0-5	5
		25	12	18.96	19.10	19.25	19.01	19.13	0-5	5
		25	24	18.94	19.08	19.19	19.03	19.09	0-5	5
		50	0	18.98	19.14	19.27	19.09	19.15	0-5	5

LTE TDD Band 41 _ 15 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.68	23.88	23.88	23.73	23.84	0	0
		1	36	23.66	23.83	23.91	23.79	23.84	0	0
		1	74	23.62	23.71	23.84	23.78	23.76	0	0
		36	0	22.65	22.82	22.83	22.74	22.83	0-1	1
		36	18	22.60	22.77	22.81	22.72	22.75	0-1	1
		36	39	22.63	22.71	22.82	22.76	22.74	0-1	1
		75	0	22.68	22.82	22.88	22.79	22.81	0-1	1
	16QAM	1	0	22.80	22.93	22.94	22.79	22.85	0-1	1
		1	36	22.71	22.85	22.94	22.75	22.86	0-1	1
		1	74	22.70	22.78	22.86	22.80	22.78	0-1	1
		36	0	21.59	21.76	21.75	21.68	21.75	0-2	2
		36	18	21.57	21.71	21.76	21.65	21.71	0-2	2
		36	39	21.60	21.64	21.79	21.67	21.69	0-2	2
		75	0	21.64	21.78	21.84	21.75	21.79	0-2	2
	64QAM	1	0	21.32	21.55	21.46	21.39	21.50	0-2	2
		1	36	21.29	21.43	21.51	21.40	21.46	0-2	2
		1	74	21.29	21.32	21.42	21.41	21.40	0-2	2
		36	0	20.98	21.17	21.28	21.06	21.18	0-3	3
		36	18	20.99	21.13	21.27	21.07	21.12	0-3	3
		36	39	20.97	21.08	21.23	21.06	21.12	0-3	3
		75	0	20.96	21.14	21.23	21.06	21.18	0-3	3
	256QAM	1	0	18.71	19.02	18.95	18.77	18.95	0-5	5
		1	36	18.69	18.87	18.95	18.78	18.94	0-5	5
		1	74	18.68	18.77	18.91	18.80	18.90	0-5	5
		36	0	18.95	19.13	19.25	19.01	19.18	0-5	5
		36	18	18.95	19.10	19.23	19.04	19.11	0-5	5
		36	39	18.94	19.05	19.19	19.03	19.11	0-5	5
		75	0	18.92	19.08	19.19	19.05	19.16	0-5	5

LTE TDD Band 41 _ 20 ㎒ Bandwidth Conducted Power

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 ㎒	QPSK	1	0	23.67	23.93	23.89	23.80	23.86	0	0
		1	49	23.69	23.82	23.95	23.78	23.81	0	0
		1	99	23.66	23.72	23.82	23.78	23.77	0	0
		50	0	22.68	22.91	22.93	22.80	22.88	0-1	1
		50	25	22.66	22.84	22.90	22.78	22.83	0-1	1
		50	49	22.71	22.78	22.89	22.83	22.79	0-1	1
		100	0	22.69	22.83	22.91	22.80	22.84	0-1	1
	16QAM	1	0	22.77	22.95	22.90	22.79	22.86	0-1	1
		1	49	22.71	22.88	22.92	22.75	22.79	0-1	1
		1	99	22.74	22.76	22.88	22.80	22.80	0-1	1
		50	0	21.66	21.89	21.91	21.79	21.89	0-2	2
		50	25	21.68	21.84	21.89	21.73	21.83	0-2	2
		50	49	21.70	21.74	21.91	21.83	21.79	0-2	2
		100	0	21.70	21.84	21.90	21.82	21.84	0-2	2
	64QAM	1	0	21.36	21.63	21.45	21.42	21.49	0-2	2
		1	49	21.27	21.46	21.50	21.39	21.45	0-2	2
		1	99	21.35	21.32	21.44	21.42	21.42	0-2	2
		50	0	21.02	21.30	21.34	21.12	21.27	0-3	3
		50	25	21.00	21.19	21.35	21.12	21.23	0-3	3
		50	49	21.08	21.13	21.33	21.13	21.22	0-3	3
		100	0	21.05	21.19	21.30	21.12	21.19	0-3	3
	256QAM	1	0	18.77	19.09	18.95	18.79	18.97	0-5	5
		1	49	18.74	18.90	18.96	18.78	18.93	0-5	5
		1	99	18.76	18.76	18.89	18.86	18.95	0-5	5
		50	0	19.03	19.25	19.34	19.12	19.24	0-5	5
		50	25	19.02	19.16	19.32	19.11	19.22	0-5	5
		50	49	19.01	19.13	19.32	19.09	19.20	0-5	5
		100	0	18.97	19.15	19.27	19.07	19.16	0-5	5

10.3.11 LTE TDD Band 42 (MOMO 1 Ant.) Maximum Conducted Output Power

LTE TDD Band 42 _ 5 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				42115	42590	43065		
				3452.5 ㎒	3500 ㎒	3547.5 ㎒		
5 ㎒	QPSK	1	0	20.96	21.19	21.48	0	0
		1	12	21.02	21.18	21.61	0	0
		1	24	21.10	21.12	21.54	0	0
		12	0	20.26	20.48	20.76	0-1	1
		12	6	20.32	20.48	20.83	0-1	1
		12	11	20.38	20.49	20.86	0-1	1
		25	0	20.39	20.50	20.85	0-1	1
	16QAM	1	0	20.38	20.53	20.77	0-1	1
		1	12	20.44	20.58	20.89	0-1	1
		1	24	20.56	20.47	20.89	0-1	1
		12	0	19.24	19.40	19.74	0-2	2
		12	6	19.27	19.39	19.77	0-2	2
		12	11	19.36	19.41	19.81	0-2	2
		25	0	19.37	19.50	19.85	0-2	2
	64QAM	1	0	18.95	19.17	19.48	0-2	2
		1	12	18.99	19.15	19.47	0-2	2
		1	24	19.11	19.15	19.54	0-2	2
		12	0	18.27	18.41	18.72	0-3	3
		12	6	18.34	18.39	18.75	0-3	3
		12	11	18.40	18.43	18.79	0-3	3
		25	0	18.40	18.42	18.77	0-3	3
	256QAM	1	0	16.05	16.28	16.53	0-5	5
		1	12	16.16	16.29	16.58	0-5	5
		1	24	16.23	16.23	16.64	0-5	5
		12	0	16.32	16.53	16.79	0-5	5
		12	6	16.37	16.50	16.91	0-5	5
		12	11	16.37	16.45	16.87	0-5	5
		25	0	16.35	16.41	16.80	0-5	5

LTE TDD Band 42 _ 10 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				42140	42590	43040		
				3455 ㎒	3500 ㎒	3545 ㎒		
10 ㎒	QPSK	1	0	20.89	21.15	21.37	0	0
		1	24	21.04	21.12	21.47	0	0
		1	49	21.18	21.09	21.52	0	0
		25	0	20.35	20.52	20.75	0-1	1
		25	12	20.39	20.53	20.80	0-1	1
		25	24	20.47	20.46	20.88	0-1	1
		50	0	20.44	20.50	20.81	0-1	1
	16QAM	1	0	20.27	20.54	20.71	0-1	1
		1	24	20.42	20.53	20.79	0-1	1
		1	49	20.58	20.46	20.91	0-1	1
		25	0	19.36	19.51	19.77	0-2	2
		25	12	19.42	19.51	19.79	0-2	2
		25	24	19.49	19.48	19.86	0-2	2
		50	0	19.46	19.50	19.80	0-2	2
	64QAM	1	0	18.92	19.19	19.36	0-2	2
		1	24	19.08	19.16	19.46	0-2	2
		1	49	19.25	19.12	19.52	0-2	2
		25	0	18.31	18.47	18.69	0-3	3
		25	12	18.39	18.49	18.74	0-3	3
		25	24	18.46	18.42	18.81	0-3	3
		50	0	18.45	18.48	18.83	0-3	3
	256QAM	1	0	16.05	16.30	16.49	0-5	5
		1	24	16.22	16.30	16.55	0-5	5
		1	49	16.38	16.26	16.67	0-5	5
		25	0	16.31	16.49	16.71	0-5	5
		25	12	16.39	16.45	16.73	0-5	5
		25	24	16.44	16.42	16.82	0-5	5
		50	0	16.46	16.49	16.80	0-5	5

LTE TDD Band 42 _ 15 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				42165	42590	43015		
				3457.5 ㎒	3500 ㎒	3542.5 ㎒		
15 ㎒	QPSK	1	0	20.90	21.15	21.32	0	0
		1	36	21.19	21.13	21.44	0	0
		1	74	21.37	21.10	21.56	0	0
		36	0	20.35	20.49	20.68	0-1	1
		36	18	20.50	20.46	20.72	0-1	1
		36	39	20.58	20.42	20.81	0-1	1
		75	0	20.55	20.51	20.77	0-1	1
	16QAM	1	0	20.32	20.56	20.72	0-1	1
		1	36	20.52	20.52	20.78	0-1	1
		1	74	20.78	20.53	20.93	0-1	1
		36	0	19.33	19.46	19.65	0-2	2
		36	18	19.42	19.39	19.69	0-2	2
		36	39	19.56	19.36	19.75	0-2	2
		75	0	19.53	19.50	19.73	0-2	2
	64QAM	1	0	18.94	19.23	19.38	0-2	2
		1	36	19.16	19.15	19.36	0-2	2
		1	74	19.42	19.16	19.60	0-2	2
		36	0	18.37	18.48	18.68	0-3	3
		36	18	18.47	18.42	18.70	0-3	3
		36	39	18.61	18.42	18.79	0-3	3
		75	0	18.52	18.48	18.75	0-3	3
	256QAM	1	0	16.03	16.34	16.46	0-5	5
		1	36	16.26	16.24	16.48	0-5	5
		1	74	16.53	16.29	16.67	0-5	5
		36	0	16.34	16.45	16.67	0-5	5
		36	18	16.45	16.40	16.67	0-5	5
		36	39	16.57	16.39	16.78	0-5	5
		75	0	16.45	16.41	16.72	0-5	5

LTE TDD Band 42 _ 20 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				42190	42590	42990		
				3460 MHz	3500 MHz	3540 MHz		
20 MHz	QPSK	1	0	21.10	21.27	21.29	0	0
		1	49	21.15	21.16	21.41	0	0
		1	99	21.51	21.17	21.66	0	0
		50	0	20.49	20.68	20.76	0-1	1
		50	25	20.63	20.57	20.85	0-1	1
		50	49	20.80	20.57	20.90	0-1	1
		100	0	20.63	20.64	20.85	0-1	1
	16QAM	1	0	20.33	20.72	20.69	0-1	1
		1	49	20.64	20.59	20.80	0-1	1
		1	99	20.94	20.59	21.00	0-1	1
		50	0	19.55	19.68	19.78	0-2	2
		50	25	19.62	19.58	19.84	0-2	2
		50	49	19.79	19.59	19.90	0-2	2
		100	0	19.69	19.67	19.83	0-2	2
	64QAM	1	0	19.01	19.38	19.33	0-2	2
		1	49	19.33	19.22	19.45	0-2	2
		1	99	19.57	19.23	19.66	0-2	2
		50	0	18.54	18.67	18.80	0-3	3
		50	25	18.65	18.58	18.83	0-3	3
		50	49	18.82	18.58	18.92	0-3	3
		100	0	18.64	18.62	18.82	0-3	3
	256QAM	1	0	16.15	16.51	16.48	0-5	5
		1	49	16.41	16.36	16.58	0-5	5
		1	99	16.71	16.36	16.77	0-5	5
		50	0	16.52	16.64	16.76	0-5	5
		50	25	16.65	16.55	16.81	0-5	5
		50	49	16.79	16.55	16.89	0-5	5
		100	0	16.62	16.56	16.80	0-5	5

10.3.12 LTE TDD Band 42 (MIMO2) Maximum Conducted Output Power

LTE TDD Band 42 _ 5 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				42115	42590	43065		
				3452.5 MHz	3500 MHz	3547.5 MHz		
5 MHz	QPSK	1	0	23.13	22.82	22.74	0	0
		1	12	22.62	22.84	22.82	0	0
		1	24	22.65	22.71	22.78	0	0
		12	0	21.89	22.09	22.01	0-1	1
		12	6	21.91	22.08	22.06	0-1	1
		12	11	21.97	22.11	22.07	0-1	1
		25	0	21.99	22.12	22.03	0-1	1
	16QAM	1	0	21.93	22.16	22.03	0-1	1
		1	12	22.01	22.18	22.08	0-1	1
		1	24	22.01	22.07	22.08	0-1	1
		12	0	20.83	21.04	20.97	0-2	2
		12	6	20.84	20.97	21.01	0-2	2
		12	11	20.88	21.05	21.02	0-2	2
		25	0	21.02	21.14	21.08	0-2	2
	64QAM	1	0	20.57	20.82	20.67	0-2	2
		1	12	20.63	20.78	20.69	0-2	2
		1	24	20.67	20.72	20.74	0-2	2
		12	0	19.85	20.02	19.95	0-3	3
		12	6	19.83	20.03	20.01	0-3	3
		12	11	19.88	20.04	20.02	0-3	3
		25	0	19.94	20.05	19.99	0-3	3
	256QAM	1	0	17.75	17.89	17.78	0-5	5
		1	12	17.74	17.89	17.83	0-5	5
		1	24	17.76	17.84	17.85	0-5	5
		12	0	17.92	18.14	18.07	0-5	5
		12	6	17.97	18.12	18.09	0-5	5
		12	11	17.97	18.06	18.07	0-5	5
		25	0	17.95	18.06	18.01	0-5	5

LTE TDD Band 42 _ 10 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				42140	42590	43040		
				3455 ㎒	3500 ㎒	3545 ㎒		
10 ㎒	QPSK	1	0	22.60	22.83	22.67	0	0
		1	24	22.65	22.80	22.77	0	0
		1	49	22.74	22.69	22.79	0	0
		25	0	21.98	22.19	22.01	0-1	1
		25	12	22.00	22.17	22.02	0-1	1
		25	24	22.06	22.10	22.08	0-1	1
		50	0	22.01	22.14	22.03	0-1	1
	16QAM	1	0	21.94	22.21	22.00	0-1	1
		1	24	22.00	22.15	22.04	0-1	1
		1	49	22.09	22.06	22.08	0-1	1
		25	0	21.04	21.19	21.02	0-2	2
		25	12	21.01	21.16	21.04	0-2	2
		25	24	21.04	21.10	21.08	0-2	2
		50	0	21.02	21.14	21.05	0-2	2
	64QAM	1	0	20.58	20.87	20.66	0-2	2
		1	24	20.68	20.80	20.70	0-2	2
		1	49	20.72	20.75	20.76	0-2	2
		25	0	19.96	20.13	19.98	0-3	3
		25	12	19.94	20.10	20.00	0-3	3
		25	24	19.98	20.02	20.02	0-3	3
		50	0	20.04	20.17	20.07	0-3	3
	256QAM	1	0	17.74	17.97	17.79	0-5	5
		1	24	17.79	17.92	17.82	0-5	5
		1	49	17.90	17.85	17.87	0-5	5
		25	0	17.96	18.13	17.97	0-5	5
		25	12	17.96	18.10	17.99	0-5	5
		25	24	17.99	18.00	18.03	0-5	5
		50	0	18.04	18.13	17.98	0-5	5

LTE TDD Band 42 _ 15 ㎒ Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				42165	42590	43015		
				3457.5 ㎒	3500 ㎒	3542.5 ㎒		
15 ㎒	QPSK	1	0	22.55	22.85	22.60	0	0
		1	36	22.71	22.81	22.68	0	0
		1	74	22.85	22.66	22.81	0	0
		36	0	21.97	22.17	22.02	0-1	1
		36	18	22.07	22.09	22.01	0-1	1
		36	39	22.07	22.04	22.06	0-1	1
		75	0	22.14	22.14	22.07	0-1	1
	16QAM	1	0	21.97	22.28	22.03	0-1	1
		1	36	22.04	22.16	22.05	0-1	1
		1	74	22.24	22.07	22.15	0-1	1
		36	0	20.95	21.12	20.95	0-2	2
		36	18	20.98	21.03	20.95	0-2	2
		36	39	21.01	20.97	21.02	0-2	2
		75	0	21.04	21.12	21.05	0-2	2
	64QAM	1	0	20.62	20.89	20.64	0-2	2
		1	36	20.64	20.76	20.65	0-2	2
		1	74	20.87	20.72	20.79	0-2	2
		36	0	19.94	20.17	19.99	0-3	3
		36	18	19.99	20.06	20.01	0-3	3
		36	39	20.06	20.00	20.08	0-3	3
		75	0	20.08	20.09	20.04	0-3	3
	256QAM	1	0	17.75	18.02	17.75	0-5	5
		1	36	17.79	17.87	17.76	0-5	5
		1	74	17.97	17.78	17.86	0-5	5
		36	0	17.95	18.11	17.92	0-5	5
		36	18	18.00	18.04	17.96	0-5	5
		36	39	18.06	18.01	18.01	0-5	5
		75	0	18.03	18.04	17.97	0-5	5

LTE TDD Band 42 _ 20 MHz Bandwidth Conducted Power

Bandwidth	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR Allowed Per 3GPP [dB]	MPR [dB]
				42190	42590	42990		
				3460 MHz	3500 MHz	3540 MHz		
20 MHz	QPSK	1	0	22.64	22.90	22.56	0	0
		1	49	22.70	22.77	22.66	0	0
		1	99	22.98	22.64	22.85	0	0
		50	0	22.09	22.34	22.03	0-1	1
		50	25	22.12	22.17	22.04	0-1	1
		50	49	22.22	22.10	22.14	0-1	1
		100	0	22.14	22.20	22.08	0-1	1
	16QAM	1	0	21.99	22.36	21.93	0-1	1
		1	49	22.12	22.16	22.03	0-1	1
		1	99	22.36	22.06	22.20	0-1	1
		50	0	21.09	21.30	21.05	0-2	2
		50	25	21.12	21.14	21.08	0-2	2
		50	49	21.22	21.10	21.08	0-2	2
		100	0	21.16	21.22	21.08	0-2	2
	64QAM	1	0	20.66	21.01	20.64	0-2	2
		1	49	20.79	20.84	20.71	0-2	2
		1	99	21.02	20.73	20.84	0-2	2
		50	0	20.09	20.30	20.06	0-3	3
		50	25	20.13	20.17	20.08	0-3	3
		50	49	20.22	20.10	20.14	0-3	3
		100	0	20.14	20.20	20.09	0-3	3
	256QAM	1	0	17.79	18.12	17.77	0-5	5
		1	49	17.90	17.94	17.80	0-5	5
		1	99	18.14	17.82	17.94	0-5	5
		50	0	18.05	18.25	18.02	0-5	5
		50	25	18.11	18.12	18.05	0-5	5
		50	49	18.18	18.10	18.10	0-5	5
		100	0	18.09	18.13	18.00	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.

10.3.14 LTE Uplink Carrier Aggregation Maximum Conducted Output Power

Combination	PCC							SCC						Tx Power	
	Band	BW	PCC UL Channel	PCC UL Frequency	Mode	RB	offset	Band	BW	SCC UL Channel	SCC UL Frequency	RB	offset	LTE Single Carrier Tx Power (dBm)	LTE Tx Power witU UL CA Enabled(dBm)
7C	7	20	21350	2560	QPSK	1	0	7	20	21152	2540.2	1	99	23.80	23.01

10.4 NR Maximum Output Power

10.4.1 NR FDD Band n7 Conducted Power

NR FDD Band n7 _ 5 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						500500	507000	513500	
						2 502.5 ㎒	2 535 ㎒	2 567.5 ㎒	
5 ㎒	15	DFT-s OFDM	pi/2 BPSK	1	1	24.25	24.39	24.35	0
				1	13	24.16	24.43	24.45	0
				1	23	24.10	24.43	24.52	0
				12	0	23.63	24.06	24.03	0.5
				12	7	24.25	24.38	24.48	0
				12	13	23.58	23.85	23.95	0.5
				25	0	23.67	23.86	23.99	0.5
			QPSK	1	1	24.17	24.27	24.39	0
				1	13	24.19	24.32	24.48	0
				1	23	24.07	24.33	24.57	0
				12	0	23.20	23.41	23.55	1
				12	7	24.26	24.40	24.53	0
				12	13	23.19	23.41	23.55	1
				25	0	23.23	23.45	23.56	1
			16QAM	1	1	23.27	23.36	23.52	1
			64QAM	1	1	21.91	22.28	22.24	2.5
			256QAM	1	1	19.79	19.72	19.82	4.5
		CP	QPSK	1	1	23.18	23.08	23.30	1.5

NR FDD Band n7 _ 10 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						501000	507000	513000	
						2 505 ㎒	2 535 ㎒	2 565 ㎒	
10 ㎒	15	DFT-s OFDM	pi/2 BPSK	1	1	V	24.63	24.59	0
				1	26	24.48	24.77	24.68	0
				1	50	24.33	24.66	24.78	0
				25	0	23.97	24.19	24.21	0.5
				25	14	24.46	24.69	24.76	0
				25	27	23.89	24.20	24.27	0.5
				50	0	23.96	24.15	24.24	0.5
			QPSK	1	1	24.51	24.57	24.63	0
				1	26	24.50	24.71	24.72	0
				1	50	24.37	24.66	24.74	0
				25	0	23.52	23.76	23.77	1
				25	14	24.47	24.71	24.83	0
				25	27	23.46	23.74	23.86	1
				50	0	23.58	23.73	23.82	1
			16QAM	1	1	23.64	23.69	23.80	1
			64QAM	1	1	22.14	22.20	22.24	2.5
			256QAM	1	1	20.03	19.74	19.66	4.5
		CP	QPSK	1	1	23.26	23.39	23.43	1.5

NR FDD Band n7 _ 15 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						501500	507000	512500	
						2 507.5 ㎒	2 535 ㎒	2 562.5 ㎒	
15 ㎒	15	DFT-s OFDM	pi/2 BPSK	1	1	24.51	24.51	24.61	0
				1	40	24.47	24.72	24.67	0
				1	77	24.37	24.66	24.78	0
				36	0	24.03	24.14	24.18	0.5
				36	22	24.44	24.67	24.69	0
				36	43	23.88	24.20	24.20	0.5
				75	0	23.90	24.17	24.20	0.5
			QPSK	1	1	24.50	24.54	24.63	0
				1	40	24.41	24.69	24.66	0
				1	77	24.33	24.63	24.73	0
				36	0	23.53	23.72	23.72	1
				36	22	24.47	24.66	24.73	0
				36	43	23.49	23.76	23.83	1
				75	0	23.53	23.72	23.79	1
			16QAM	1	1	23.69	23.70	23.73	1
			64QAM	1	1	22.15	22.16	22.19	2.5
			256QAM	1	1	20.29	20.33	20.37	4.5
		CP	QPSK	1	1	23.28	23.36	23.41	1.5

NR FDD Band n7 _ 20 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						502000	507000	512000	
						2 510 ㎒	2 535 ㎒	2 560 ㎒	
20 ㎒	15	DFT-s OFDM	pi/2 BPSK	1	1	V	24.45	24.62	0
				1	53	24.40	24.76	24.68	0
				1	104	24.42	24.75	24.75	0
				50	0	23.95	24.17	24.21	0.5
				50	28	24.47	24.65	24.72	0
				50	56	23.94	24.22	24.20	0.5
				100	0	23.92	24.12	24.23	0.5
			QPSK	1	1	24.56	24.44	24.58	0
				1	53	24.36	24.68	24.61	0
				1	104	24.41	24.64	24.73	0
				50	0	23.53	23.69	23.78	1
				50	28	24.45	24.67	24.71	0
				50	56	23.54	23.82	23.82	1
				100	0	23.57	23.75	23.80	1
			16QAM	1	1	23.67	23.63	23.74	1
			64QAM	1	1	22.20	22.15	22.22	2.5
			256QAM	1	1	20.10	20.26	20.21	4.5
		CP	QPSK	1	1	23.35	23.29	23.31	1.5

NR FDD Band n7 _ 25 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						502500		511500	
						2 512.5 ㎒		2 557.5 ㎒	
25 ㎒	15	DFT-s OFDM	pi/2 BPSK	1	1	24.37		24.57	0
				1	67	24.18		24.54	0
				1	131	24.41		24.62	0
				64	0	23.74		24.09	0.5
				64	35	24.30		24.47	0
				64	39	23.77		24.12	0.5
				128	0	23.78		24.07	0.5
			QPSK	1	1	24.39		24.46	0
				1	67	24.14		24.45	0
				1	131	24.35		24.61	0
				64	0	23.24		23.57	1
				64	35	24.22		24.51	0
				64	69	23.36		23.57	1
				128	0	23.34		23.55	1
			16QAM	1	1	23.49		23.64	1
			64QAM	1	1	22.04		22.07	2.5
			256QAM	1	1	19.97		20.08	4.5
		CP	QPSK	1	1	23.14		23.21	1.5

NR FDD Band n7 _ 30 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
						503000		511000	
						2 515 ㎒		2 555 ㎒	
30 ㎒	15	DFT-s OFDM	pi/2 BPSK	1	1	24.42		24.61	0
				1	80	24.18		24.57	0
				1	158	24.48		24.64	0
				80	0	23.77		24.10	0.5
				80	40	24.34		24.60	0
				80	80	23.88		24.14	0.5
				160	0	23.78		24.10	0.5
			QPSK	1	1	24.37		24.58	0
				1	80	24.24		24.50	0
				1	158	24.51		24.68	0
				80	0	23.35		23.62	1
				80	40	24.30		24.55	0
				80	80	23.41		23.66	1
				160	0	23.30		23.59	1
			16QAM	1	1	23.47		23.66	1
			64QAM	1	1	22.01		22.15	2.5
			256QAM	1	1	19.98		20.14	4.5
		CP	QPSK	1	1	23.20		22.99	1.5

NR FDD Band n7 _ 40 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							507000		
							2 535 ㎒		
40 ㎒	15	DFT-s OFDM	pi/2 BPSK	1	1		24.18		0
				1	108		24.65		0
				1	214		24.57		0
				108	0		23.96		0.5
				108	54		24.57		0
				108	108		24.07		0.5
				216	0		24.00		0.5
			QPSK	1	1		24.16		0
				1	108		24.55		0
				1	214		24.49		0
				108	0		23.51		1
				108	54		24.54		0
				108	108		23.62		1
				216	0		23.56		1
			16QAM	1	1		23.35		1
			64QAM	1	1		21.87		2.5
			256QAM	1	1		19.81		4.5
		CP	QPSK	1	1		22.05		1.5

NR FDD Band n7 _ 50 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power [dBm]			MPR [dB]
							507000		
							2535 ㎒		
50 ㎒	15	DFT-s OFDM	pi/2 BPSK	1	1		24.07		0
				1	135		24.64		0
				1	268		24.69		0
				135	0		23.94		0.5
				135	67		24.60		0
				135	135		24.09		0.5
				270	0		24.05		0.5
			QPSK	1	1		24.19		0
				1	135		24.56		0
				1	268		24.63		0
				135	0		23.43		1
				135	67		24.39		0
				135	135		23.26		1
				270	0		23.68		1
			16QAM	1	1		23.40		1
			64QAM	1	1		21.35		2.5
			256QAM	1	1		19.74		4.5
		CP	QPSK	1	1		22.99		1.5

10.4.2 NR TDD Band n41 Conducted Power

NR TDD Band n41 _10 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						500202	509400	518598	527802	537000	
						2501.01 ㎒	2547 ㎒	2592.99 ㎒	2639.01 ㎒	2685 ㎒	
10 ㎒	30	DFT-s	pi/2 BPSK	1	1	24.45	24.72	24.63	24.62	24.72	0
				1	12	24.53	24.88	24.68	24.73	24.84	0
				1	22	24.41	24.83	24.61	24.64	24.82	0
				12	0	23.97	24.29	24.12	24.17	24.28	0.5
				12	6	24.49	24.82	24.62	24.68	24.77	0
				12	12	24.00	24.32	24.11	24.18	24.32	0.5
				24	0	24.00	24.24	24.08	24.13	24.29	0.5
			QPSK	1	1	24.48	24.68	24.61	24.59	24.63	0
				1	12	24.51	24.80	24.61	24.66	24.77	0
				1	22	24.38	24.76	24.53	24.55	24.73	0
				12	0	23.51	23.74	23.66	23.66	23.79	1
				12	6	24.50	24.81	24.61	24.67	24.77	0
				12	12	23.54	23.84	23.62	23.69	23.81	1
				24	0	23.55	23.77	23.64	23.63	23.79	1
			16QAM	1	1	23.37	23.65	23.57	23.55	23.62	1
			64QAM	1	1	22.37	22.45	22.39	22.38	22.45	2.5
			256QAM	1	1	20.08	20.30	20.29	20.32	20.23	4.5
		CP	QPSK	1	1	22.96	23.14	23.10	23.04	23.10	1.5

NR TDD Band n41 _15 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						500700	509652	518598	527550	536502	
						2503.5 ㎒	2548.26 ㎒	2592.99 ㎒	2637.75 ㎒	2682.51 ㎒	
15 ㎒	30	DFT-s	pi/2 BPSK	1	1	24.54	24.75	24.70	24.58	24.62	0
				1	18	24.51	24.85	24.68	24.70	24.70	0
				1	36	24.43	24.90	24.62	24.68	24.79	0
				18	0	24.00	24.27	24.12	24.13	24.15	0.5
				18	9	24.51	24.85	24.64	24.69	24.70	0
				18	18	23.97	24.36	24.09	24.18	24.22	0.5
				36	0	24.00	24.36	24.13	24.16	24.21	0.5
			QPSK	1	1	24.48	24.70	24.62	24.54	24.56	0
				1	18	24.46	24.78	24.63	24.64	24.67	0
				1	36	24.36	24.84	24.55	24.58	24.71	0
				18	0	23.57	23.77	23.69	23.66	23.65	1
				18	9	24.54	24.85	24.65	24.67	24.70	0
				18	18	23.51	23.87	23.64	23.68	23.76	1
				36	0	23.51	23.83	23.64	23.66	23.73	1
			16QAM	1	1	23.36	23.56	23.54	23.57	23.60	1
			64QAM	1	1	22.32	22.35	22.38	22.34	22.38	2.5
			256QAM	1	1	20.06	20.12	20.31	20.45	19.95	4.5
		CP	QPSK	1	1	23.00	23.17	23.14	23.02	23.02	1.5

NR TDD Band n41 _20 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						501204	509898	518598	527298	535998	
						2 506.02 ㎒	2 549.49 ㎒	2 592.99 ㎒	2 636.49 ㎒	2 679.99 ㎒	
20 ㎒	30	DFT-s	pi/2 BPSK	1	1	24.55	24.76	24.71	24.61	24.66	0
				1	26	24.48	24.87	24.66	24.70	24.77	0
				1	49	24.39	24.98	24.62	24.70	24.87	0
				25	0	23.93	24.26	24.17	24.09	24.18	0.5
				25	13	24.47	24.83	24.63	24.68	24.73	0
				25	26	23.92	24.41	24.11	24.17	24.23	0.5
				50	0	23.92	24.28	24.14	24.14	24.20	0.5
			QPSK	1	1	24.45	24.67	24.66	24.54	24.58	0
				1	26	24.41	24.78	24.61	24.65	24.70	0
				1	49	24.34	24.90	24.57	24.63	24.82	0
				25	0	23.51	23.76	23.71	23.60	23.67	1
				25	13	24.48	24.83	24.62	24.66	24.78	0
				25	26	23.48	23.93	23.64	23.67	23.74	1
				50	0	23.51	23.83	23.69	23.64	23.70	1
			16QAM	1	1	23.56	23.55	23.58	23.41	23.46	1
			64QAM	1	1	22.24	22.50	22.33	22.37	22.42	2.5
			256QAM	1	1	20.08	20.16	20.16	20.17	20.09	4.5
		CP	QPSK	1	1	23.02	23.16	23.17	23.02	23.07	1.5

NR TDD Band n41 _30 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						502200	510402	518598	526800	534996	
						2 511 ㎒	2 552.01 ㎒	2 592.99 ㎒	2 634 ㎒	2 674.98 ㎒	
30 ㎒	30	DFT-s	pi/2 BPSK	1	1	24.49	24.69	24.71	24.39	24.54	0
				1	39	24.40	24.77	24.61	24.56	24.68	0
				1	76	24.33	24.95	24.62	24.62	24.80	0
				36	0	23.86	24.16	24.15	23.93	24.09	0.5
				36	21	24.33	24.75	24.61	24.52	24.66	0
				36	42	23.78	24.31	24.05	24.05	24.19	0.5
				75	0	23.82	24.22	24.07	23.97	24.12	0.5
			QPSK	1	1	24.41	24.58	24.63	24.31	24.49	0
				1	39	24.32	24.69	24.54	24.50	24.64	0
				1	76	24.25	24.85	24.52	24.54	24.73	0
				36	0	23.40	23.64	23.65	23.46	23.59	1
				36	21	24.34	24.75	24.59	24.50	24.68	0
				36	42	23.30	23.84	23.58	23.57	23.68	1
				75	0	23.38	23.78	23.60	23.53	23.62	1
			16QAM	1	1	23.53	23.68	23.71	23.24	23.37	1
			64QAM	1	1	22.18	22.38	22.43	22.16	22.33	2.5
			256QAM	1	1	20.00	20.42	19.93	20.36	20.02	4.5
		CP	QPSK	1	1	22.94	23.08	23.15	22.83	22.97	1.5

NR TDD Band n41 _40 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						503202	513468		523734	534000	
						2 516.01 ㎒	2 567.34 ㎒		2 618.67 ㎒	2 670 ㎒	
40 ㎒	30	DFT-s	pi/2 BPSK	1	1	24.46	24.72		24.47	24.52	0
				1	53	24.31	24.90		24.52	24.71	0
				1	104	24.61	24.77		24.70	24.86	0
				50	0	23.77	24.16		23.95	24.06	0.5
				50	28	24.29	24.80		24.52	24.62	0
				50	56	23.79	24.25		24.01	24.13	0.5
				100	0	23.83	24.26		24.01	24.08	0.5
			QPSK	1	1	24.39	24.66		24.41	24.45	0
				1	53	24.27	24.84		24.46	24.60	0
				1	104	24.53	24.72		24.64	24.78	0
				50	0	23.31	23.72		23.48	23.56	1
				50	28	24.31	24.84		24.52	24.63	0
				50	56	23.32	23.79		23.54	23.63	1
				100	0	23.34	23.80		23.52	23.56	1
			16QAM	1	1	23.29	23.73		23.45	23.49	1
			64QAM	1	1	22.25	22.43		22.17	22.25	2.5
			256QAM	1	1	19.97	20.13		20.27	19.94	4.5
		CP	QPSK	1	1	22.93	23.14		22.90	22.92	1.5

NR TDD Band n41 _50 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						504204		518598		532998	
						2 521.02 ㎒		2 592.99 ㎒		2 664.99 ㎒	
50 ㎒	30	DFT-s	pi/2 BPSK	1	1	24.45		24.75		24.48	0
				1	67	24.51		24.60		24.65	0
				1	131	24.50		24.63		24.87	0
				64	0	24.11		24.17		24.05	0.5
				64	35	24.28		24.60		24.61	0
				64	69	23.98		24.02		23.94	0.5
				128	0	23.81		24.08		24.05	0.5
			QPSK	1	1	24.38		24.70		24.43	0
				1	67	24.26		24.51		24.60	0
				1	131	24.72		24.54		24.78	0
				64	0	23.31		23.72		23.54	1
				64	35	24.30		24.60		24.61	0
				64	69	23.52		23.57		23.65	1
				128	0	23.34		23.60		23.53	1
			16QAM	1	1	23.35		23.89		23.32	1
			64QAM	1	1	22.11		22.19		22.01	2.5
			256QAM	1	1	19.94		19.22		19.24	4.5
		CP	QPSK	1	1	22.91		22.59		22.90	1.5

NR TDD Band n41 _60 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						505200		518598		531996		
						2 526 ㎒		2 592.99 ㎒		2 659.98 ㎒		
60 ㎒	30	DFT-s	pi/2 BPSK	1	1	24.49		24.75		24.39		0
				1	81	24.48		24.59		24.65		0
				1	160	24.48		24.60		24.88		0
				81	0	24.05		24.09		24.03		0.5
				81	41	24.41		24.59		24.63		0
				81	81	24.14		23.97		24.12		0.5
				162	0	23.84		24.03		24.03		0.5
			QPSK	1	1	24.33		24.65		24.34		0
				1	81	24.26		24.54		24.61		0
				1	160	24.72		24.54		24.82		0
				81	0	23.21		23.65		23.53		1
				81	41	24.41		24.60		24.61		0
				81	81	23.64		23.51		23.61		1
				162	0	23.41		23.59		23.51		1
			16QAM	1	1	23.02		23.41		23.07		1
			64QAM	1	1	21.98		22.31		21.97		2.5
			256QAM	1	1	19.93		19.91		19.87		4.5
		CP	QPSK	1	1	22.92		23.18		22.83		1.5

NR TDD Band n41 _70 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						506208				530994	
						2 531.04 ㎒				2 654.97 ㎒	
70 ㎒	30	DFT-s	pi/2 BPSK	1	1	24.33				24.28	0
				1	81	24.56				24.64	0
				1	160	24.86				24.80	0
				81	0	23.80				23.04	0.5
				81	41	24.52				24.56	0
				81	81	24.27				24.18	0.5
				162	0	24.01				24.04	0.5
			QPSK	1	1	24.27				24.16	0
				1	81	24.44				24.55	0
				1	160	24.71				24.72	0
				81	0	23.33				23.44	1
				81	41	24.58				24.62	0
				81	81	23.83				23.65	1
				162	0	23.56				23.55	1
			16QAM	1	1	23.14				23.10	1
			64QAM	1	1	21.90				21.71	2.5
			256QAM	1	1	19.84				18.76	4.5
		CP	QPSK	1	1	22.82				22.69	1.5

NR TDD Band n41 _80 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						507204				529998	
						2536.02 ㎒				2649.99 ㎒	
80 ㎒	30	DFT-s	pi/2 BPSK	1	1	24.27				24.22	0
				1	109	24.07				24.59	0
				1	215	24.76				24.82	0
				108	0	23.73				23.87	0.5
				108	55	24.50				24.56	0
				108	109	24.20				24.12	0.5
				216	0	23.97				24.01	0.5
			QPSK	1	1	24.32				24.17	0
				1	109	24.57				24.49	0
				1	215	24.68				24.72	0
				108	0	23.27				23.43	1
				108	55	24.52				24.54	0
				108	109	23.71				23.59	1
				216	0	23.52				23.50	1
			16QAM	1	1	23.09				23.04	1
			64QAM	1	1	21.77				21.72	2.5
			256QAM	1	1	19.99				18.74	4.5
		CP	QPSK	1	1	22.69				22.63	1.5

NR TDD Band n41 _90 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						508200				528996	
						2 541 ㎒				2 644.98 ㎒	
90 ㎒	30	DFT-s	pi/2 BPSK	1	1	24.16				24.23	0
				1	123	24.62				24.53	0
				1	243	24.70				24.78	0
				120	0	23.76				23.80	0.5
				120	63	24.57				24.51	0
				120	125	24.21				24.08	0.5
				243	0	24.01				23.99	0.5
			QPSK	1	1	24.25				24.16	0
				1	123	24.59				24.47	0
				1	243	24.61				24.69	0
				120	0	23.30				23.32	1
				120	63	24.59				24.49	0
				120	125	23.76				23.56	1
				243	0	23.55				23.44	1
			16QAM	1	1	23.13				23.06	1
			64QAM	1	1	21.73				21.67	2.5
			256QAM	1	1	19.94				18.50	4.5
		CP	QPSK	1	1	22.80				22.68	1.5

NR TDD Band n41 _100 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
								518598			
								2 592.99 MHz			
100 MHz	30	DFT-s	pi/2 BPSK	1	1			24.47			0
				1	137			24.54			0
				1	271			24.69			0
				135	0			24.06			0.5
				135	69			24.61			0
				135	138			24.01			0.5
				270	0			24.09			0.5
			QPSK	1	1			24.46			0
				1	137			24.46			0
				1	271			24.65			0
				135	0			23.60			1
				135	69			24.60			0
				135	138			23.56			1
				270	0			23.63			1
			16QAM	1	1			23.24			1
			64QAM	1	1			22.00			2.5
			256QAM	1	1			20.04			4.5
		CP	QPSK	1	1			22.83			1.5

10.4.3 NR TDD Band n77 (MIMO1 Ant.) Conducted Power

NR TDD Band n77_ 10 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647000	650600	654200	657800	661400	665000	
						3705 ㎒	3759 ㎒	3813 ㎒	3867 ㎒	3921 ㎒	3975 ㎒	
10 ㎒	30	DFT-s OFDM	pi/2 BPSK	1	1	21.98	22.05	21.24	21.52	21.00	21.23	0
				1	12	21.96	22.09	21.26	21.59	21.05	21.26	0
				1	22	21.92	22.05	21.15	21.54	20.96	21.20	0
				12	0	21.40	21.52	20.73	20.97	20.43	20.68	0.5
				12	6	21.91	22.03	21.19	21.55	20.94	21.18	0
				12	12	21.42	21.52	20.68	21.02	20.49	20.67	0.5
				24	0	21.36	21.51	20.66	20.98	20.46	20.66	0.5
			QPSK	1	1	21.90	21.99	21.26	21.56	20.97	21.27	0
				1	12	21.94	22.11	21.22	21.68	21.06	21.29	0
				1	22	21.89	22.06	21.12	21.57	20.95	21.22	0
				12	0	20.88	21.01	20.22	20.46	19.97	20.17	1
				12	6	21.92	22.10	21.21	21.52	20.93	21.18	0
				12	12	20.90	20.99	20.15	20.50	19.92	20.16	1
				24	0	20.87	20.99	20.17	20.44	19.90	20.16	1
			16QAM	1	1	21.14	21.10	20.29	20.62	20.09	20.27	1
			64QAM	1	1	19.39	19.71	18.97	19.07	18.62	18.81	2.5
			256QAM	1	1	17.66	17.54	17.40	17.16	16.61	16.91	4.5
		CP	QPSK	1	1	20.60	20.66	20.16	20.19	19.66	19.97	1.5

NR TDD Band n77_ 15 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647168	650700	654232	657766	661300	664832	
						3707.52 ㎒	3760.5 ㎒	3813.49 ㎒	3866.5 ㎒	3919.5 ㎒	3972.48 ㎒	
15 ㎒	30	DFT-s OFDM	pi/2 BPSK	1	1	21.24	22.03	21.50	21.52	21.01	21.14	0
				1	18	21.89	22.08	21.31	21.53	20.99	21.14	0
				1	36	21.92	22.07	21.30	21.53	21.03	21.11	0
				18	0	21.44	21.53	20.87	21.00	20.48	20.63	0.5
				18	9	21.94	22.05	21.33	21.51	20.96	21.13	0
				18	18	21.43	21.54	20.78	20.98	20.47	20.60	0.5
				36	0	21.41	21.50	20.86	20.97	20.48	20.59	0.5
			QPSK	1	1	21.97	22.04	21.52	21.53	21.00	21.12	0
				1	18	21.95	22.02	21.36	21.54	20.98	21.09	0
				1	36	21.94	22.06	21.32	21.53	21.03	21.13	0
				18	0	20.94	21.01	20.36	20.49	19.97	20.12	1
				18	9	21.97	22.11	21.36	21.53	20.97	21.09	0
				18	18	20.88	20.99	20.26	20.46	19.94	20.09	1
				36	0	20.94	20.98	20.33	20.47	19.99	20.08	1
			16QAM	1	1	21.07	21.07	20.56	20.63	20.14	20.25	1
			64QAM	1	1	19.61	19.59	19.06	19.12	18.61	18.79	2.5
			256QAM	1	1	17.65	17.62	17.06	17.15	17.52	16.75	4.5
		CP	QPSK	1	1	20.69	20.80	20.24	20.20	19.65	19.90	1.5

NR TDD Band n77_ 20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647334	650800	654266	657734	661200	664666	
						3 710.01 MHz	3 762 MHz	3 813.99 MHz	3 866.01 MHz	3 918 MHz	3 969.99	
20 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	21.13	22.06	21.64	21.59	21.11	21.24	0
				1	26	21.97	22.02	21.35	21.53	21.01	21.16	0
				1	49	21.98	22.11	21.29	21.59	21.09	21.23	0
				25	0	21.43	21.54	20.95	21.03	20.51	20.66	0.5
				25	13	21.97	22.04	21.35	21.56	21.01	21.16	0
				25	26	21.43	21.53	20.76	21.05	20.54	20.64	0.5
				50	0	21.42	21.56	20.86	21.04	20.53	20.64	0.5
			QPSK	1	1	22.03	22.07	21.68	21.66	21.15	21.22	0
				1	26	21.97	22.05	21.34	21.59	21.06	21.14	0
				1	49	22.04	22.11	21.29	21.64	21.15	21.24	0
				25	0	20.94	21.01	20.45	20.49	19.99	20.15	1
				25	13	21.94	22.04	21.34	21.57	21.03	21.18	0
				25	26	20.95	21.04	20.26	20.54	20.05	20.19	1
				50	0	20.93	21.02	20.35	20.55	20.02	20.18	1
			16QAM	1	1	21.05	21.19	20.78	20.72	20.21	20.36	1
			64QAM	1	1	19.53	19.70	19.21	19.11	18.61	18.89	2.5
			256QAM	1	1	17.63	17.63	17.23	17.10	16.69	16.88	4.5
		CP	QPSK	1	1	20.73	20.81	20.30	20.26	19.72	19.93	1.5

NR TDD Band n77_ 25 MHz Bandwidth Conducted Power

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	
25 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	21.21	22.11	21.79	21.69	21.27	21.39	0
				1	32	21.73	21.82	21.24	21.36	20.80	21.06	0
				1	63	22.05	22.19	21.44	21.75	21.13	21.28	0
				32	0	21.20	21.27	20.75	20.77	20.27	20.40	0.5
				32	17	21.71	21.80	21.11	21.36	20.77	20.99	0
				32	33	21.17	21.31	20.53	20.79	20.27	20.48	0.5
				64	0	21.19	21.32	20.64	20.84	20.32	20.47	0.5
			QPSK	1	1	22.07	22.18	21.76	21.62	21.08	21.36	0
				1	32	21.79	22.07	21.30	21.47	20.81	21.23	0
				1	63	21.93	22.10	21.35	21.71	21.12	21.30	0
				32	0	20.67	20.77	20.23	20.26	19.76	19.92	1
				32	17	21.72	21.81	21.17	21.37	20.79	21.00	0
				32	33	20.67	20.80	20.00	20.30	19.79	19.99	1
				64	0	20.70	20.77	20.12	20.34	19.78	19.94	1
			16QAM	1	1	21.13	21.21	21.02	20.80	20.24	20.45	1
			64QAM	1	1	19.42	19.53	19.19	19.02	18.64	18.65	2.5
			256QAM	1	1	17.42	17.51	17.08	17.04	16.53	16.64	4.5
		CP	QPSK	1	1	20.59	20.70	20.20	20.12	19.72	19.78	1.5

NR TDD Band n77_ 30 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647668	651000	654334	657666	661000	664332	
						3 715.02 MHz	3 765 MHz	3 815.01 MHz	3 864.99 MHz	3 915 MHz	3 964.98 MHz	
30 MHz	30	DFT-s	pi/2 BPSK	1	1	21.38	21.99	21.66	21.42	21.04	20.98	0
				1	39	21.88	22.02	21.38	21.51	20.97	21.08	0
				1	76	21.88	21.99	21.24	21.46	21.01	21.08	0
				36	0	21.36	21.44	20.94	20.90	20.43	20.46	0.5
				36	21	21.87	21.99	21.25	21.44	20.93	21.03	0
				36	42	21.32	21.48	20.70	20.93	20.45	20.53	0.5
				75	0	21.35	21.47	20.83	20.91	20.43	20.51	0.5
			QPSK	1	1	21.94	22.00	21.69	21.42	21.07	20.95	0
				1	39	21.90	21.97	21.40	21.50	20.98	21.07	0
				1	76	21.91	21.99	21.26	21.46	21.04	21.06	0
				36	0	20.84	20.94	20.43	20.39	19.95	19.98	1
				36	21	21.84	22.01	21.29	21.45	20.93	21.03	0
				36	42	20.79	20.95	20.16	20.41	19.93	20.03	1
				75	0	20.82	20.95	20.29	20.38	19.94	20.00	1
			16QAM	1	1	21.01	21.05	20.70	20.47	20.11	20.09	1
			64QAM	1	1	19.56	19.64	19.21	18.99	18.66	18.62	2.5
			256QAM	1	1	17.60	17.66	17.25	16.94	16.70	16.63	4.5
		CP	QPSK	1	1	20.63	20.73	20.25	20.13	19.74	19.68	1.5

NR TDD Band n77_ 40 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						648000	651200	654400	657600	660800	664000	
						3720 MHz	3768 MHz	3816 MHz	3864 MHz	3912 MHz	3960 MHz	
40 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	20.96	21.97	21.76	21.41	21.18	20.96	0
				1	53	21.96	22.06	21.42	21.52	20.95	21.06	0
				1	104	21.91	21.97	21.31	21.45	21.06	21.24	0
				50	0	21.32	21.43	20.94	20.83	20.39	20.44	0.5
				50	28	21.83	21.99	21.28	21.44	20.92	21.07	0
				50	56	21.26	21.45	20.67	20.90	20.38	20.58	0.5
				100	0	21.34	21.45	20.83	20.89	20.42	20.49	0.5
			QPSK	1	1	21.95	22.04	21.74	21.44	21.16	20.97	0
				1	53	21.92	22.09	21.34	21.56	20.95	21.09	0
				1	104	21.94	22.01	21.30	21.44	20.99	21.17	0
				50	0	20.82	20.93	20.45	20.32	19.93	19.95	1
				50	28	21.84	22.00	21.29	21.45	20.90	21.07	0
				50	56	20.75	20.91	20.17	20.37	19.89	20.09	1
				100	0	20.80	20.93	20.32	20.40	19.94	20.00	1
			16QAM	1	1	21.01	21.07	20.90	20.46	20.25	20.12	1
			64QAM	1	1	19.44	19.54	19.24	18.89	18.76	18.59	2.5
			256QAM	1	1	17.45	17.60	17.22	16.86	16.75	16.62	4.5
		CP	QPSK	1	1	20.61	20.69	20.40	20.04	19.81	19.63	1.5

NR TDD Band n77_ 50 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						648334	652166	656000		659834	663666	
						3 725.01 MHz	3 782.49 MHz	3 840 MHz		3 897.51 MHz	3 954.99 MHz	
50 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	21.95	21.88	21.44		21.53	20.91	0
				1	67	21.88	21.94	21.34		21.27	21.07	0
				1	131	22.03	21.56	21.57		21.13	21.16	0
				64	0	21.33	21.48	20.79		20.88	20.43	0.5
				64	35	21.85	21.87	21.29		21.23	21.02	0
				64	69	21.35	21.18	20.88		20.61	20.61	0.5
				128	0	21.35	21.36	20.85		20.73	20.50	0.5
			QPSK	1	1	21.93	21.96	21.42		21.53	20.89	0
				1	67	21.89	21.90	21.34		21.23	21.07	0
				1	131	22.03	21.55	21.44		21.15	21.17	0
				64	0	20.86	20.95	20.29		20.39	19.94	1
				64	35	21.85	21.88	21.33		21.26	21.06	0
				64	69	20.83	20.67	20.41		20.12	20.08	1
				128	0	20.82	20.84	20.32		20.21	19.98	1
			16QAM	1	1	20.99	20.72	20.33		20.44	19.86	1
			64QAM	1	1	19.49	19.83	18.83		19.00	18.47	2.5
			256QAM	1	1	17.48	17.22	16.98		17.05	16.50	4.5
		CP	QPSK	1	1	20.62	20.75	20.13		20.30	19.62	1.5

NR TDD Band n77_60 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						648668	653556			658444	663332	
						3 730.02 MHz	3 803.34 MHz			3 876.66 MHz	3 949.98 MHz	
60 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	21.90	21.94			21.38	20.78	0
				1	81	21.93	21.66			21.51	20.96	0
				1	160	22.07	21.28			21.17	21.03	0
				81	0	21.32	21.30			20.92	20.29	0.5
				81	41	21.87	21.58			21.45	20.95	0
				81	81	21.32	20.76			20.79	20.57	0.5
				162	0	21.33	21.02			20.88	20.45	0.5
			QPSK	1	1	21.88	21.97			21.35	20.76	0
				1	81	21.94	21.65			21.55	21.01	0
				1	160	22.04	21.24			21.04	21.12	0
				81	0	20.78	20.76			20.38	19.87	1
				81	41	21.85	21.55			21.47	21.03	0
				81	81	20.81	20.20			20.27	20.14	1
				162	0	20.83	20.51			20.36	20.01	1
			16QAM	1	1	20.84	20.89			20.27	19.79	1
			64QAM	1	1	19.40	19.38			18.88	18.40	2.5
			256QAM	1	1	17.47	17.45			16.93	16.46	4.5
		CP	QPSK	1	1	20.62	20.73			20.07	19.48	1.5

NR TDD Band n77_70 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						649000	654336			658334	663000	
						3 750 MHz	3 804.99 MHz			3 875.01 MHz	3 945 MHz	
70 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	21.87	21.89			21.16	20.72	0
				1	95	21.93	21.52			21.39	20.99	0
				1	187	22.00	21.10			20.93	21.10	0
				90	0	21.39	21.32			20.87	20.36	0.5
				90	50	21.95	21.52			21.41	20.96	0
				90	99	21.48	20.70			20.76	20.63	0.5
				180	0	21.40	21.03			20.82	20.47	0.5
			QPSK	1	1	21.86	21.90			21.14	20.75	0
				1	95	21.95	21.55			21.41	20.96	0
				1	187	21.94	21.06			20.93	21.08	0
				90	0	20.88	20.85			20.40	19.90	1
				90	50	21.93	21.51			21.43	20.94	0
				90	99	20.96	20.27			20.28	20.18	1
				180	0	20.91	20.58			20.37	20.03	1
			16QAM	1	1	20.79	20.86			20.17	19.80	1
			64QAM	1	1	19.33	19.42			18.82	18.37	2.5
			256QAM	1	1	17.39	17.52			16.86	16.45	4.5
		CP	QPSK	1	1	20.70	20.67			19.97	19.63	1.5

NR TDD Band n77_ 80 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						649334		656000		662666		
						3 740.01 MHz		3 840 MHz		3 939.99 MHz		
80 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	21.88		21.59		20.70		0
				1	109	21.91		21.14		20.76		0
				1	215	22.00		21.18		20.93		0
				108	0	21.36		20.76		20.18		0.5
				108	55	21.91		21.09		20.76		0
				108	109	21.42		20.71		20.44		0.5
				216	0	21.42		20.75		20.31		0.5
			QPSK	1	1	21.90		21.55		20.61		0
				1	109	21.93		21.02		20.70		0
				1	215	22.00		21.08		20.88		0
				108	0	20.85		20.28		19.70		1
				108	55	21.93		21.07		20.74		0
				108	109	20.95		20.26		19.96		1
				216	0	20.94		20.28		19.87		1
			16QAM	1	1	20.83		20.53		19.70		1
			64QAM	1	1	19.43		19.15		18.42		2.5
			256QAM	1	1	17.47		17.30		16.47		4.5
		CP	QPSK	1	1	20.67		20.41		19.55		1.5

NR TDD Band n77_ 90 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						649668		656000		662332		
						3 745.02 MHz		3 840 MHz		3 934.98 MHz		
90 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	20.62		21.64		20.89		0
				1	123	21.80		21.10		20.87		0
				1	243	21.72		21.14		21.10		0
				120	0	21.29		20.77		20.32		0.5
				120	63	21.86		21.32		20.87		0
				120	125	21.37		20.86		20.53		0.5
				243	0	21.33		20.86		20.45		0.5
			QPSK	1	1	21.78		21.79		20.94		0
				1	123	21.80		21.27		20.87		0
				1	243	21.72		21.32		21.13		0
				120	0	20.79		20.44		19.88		1
				120	63	21.88		21.37		20.94		0
				120	125	20.88		20.42		20.10		1
				243	0	20.87		20.44		20.01		1
			16QAM	1	1	20.76		20.73		20.01		1
			64QAM	1	1	19.43		19.25		18.56		2.5
			256QAM	1	1	17.49		17.30		16.62		4.5
		CP	QPSK	1	1	20.65		20.58		19.79		1.5

NR TDD Band n77_ 100 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						650000				662000		
						3 750 MHz				3 930 MHz		
100 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	21.84				21.11		0
				1	137	22.00				20.91		0
				1	271	21.78				21.22		0
				135	0	21.39				20.44		0.5
				135	69	21.99				20.91		0
				135	138	21.41				20.59		0.5
				270	0	21.43				20.54		0.5
			QPSK	1	1	21.86				21.16		0
				1	137	22.01				20.94		0
				1	271	21.72				21.26		0
				135	0	20.88				19.97		1
				135	69	22.02				21.09		0
				135	138	20.95				20.14		1
				270	0	20.94				20.13		1
			16QAM	1	1	20.79				20.15		1
			64QAM	1	1	19.42				18.67		2.5
			256QAM	1	1	17.45				16.75		4.5
		CP	QPSK	1	1	20.65				19.99		1.5

10.4.4 NR TDD Band n77 (MIMO2 Ant.) Conducted Power

NR TDD Band n77_ 10 MHz Bandwidth Conducted Power

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	
10 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	23.49	23.59	23.40	23.38	23.26	23.45	0
				1	12	23.52	23.79	23.34	23.45	23.27	23.43	0
				1	22	23.44	23.67	23.26	23.43	23.28	23.44	0
				12	0	22.87	23.08	22.77	22.86	22.71	22.84	0.5
				12	6	23.46	23.64	23.29	23.40	23.22	23.38	0
				12	12	22.96	23.12	22.75	22.91	22.68	22.89	0.5
				24	0	22.86	23.05	22.74	22.84	22.67	22.87	0.5
			QPSK	1	1	23.38	23.51	23.31	23.32	23.18	23.39	0
				1	12	23.63	23.62	23.31	23.40	23.21	23.38	0
				1	22	23.41	23.53	23.18	23.36	23.17	23.37	0
				12	0	22.39	22.51	22.31	22.34	22.18	22.32	1
				12	6	23.45	23.57	23.31	23.40	23.19	23.41	0
				12	12	22.41	22.53	22.24	22.40	22.22	22.35	1
				24	0	22.36	22.57	22.26	22.35	22.18	22.36	1
			16QAM	1	1	22.50	22.81	22.89	22.80	22.68	22.76	1
			64QAM	1	1	21.38	21.30	21.09	21.06	20.90	21.27	2.5
			256QAM	1	1	19.29	18.55	18.45	18.98	18.77	19.10	4.5
		CP	QPSK	1	1	22.15	22.28	22.04	22.03	21.83	22.10	1.5

NR TDD Band n77_ 15 MHz Bandwidth Conducted Power

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	
15 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	23.49	23.59	23.36	23.38	23.27	23.33	0
				1	18	23.45	23.62	23.23	23.41	23.25	23.31	0
				1	36	23.45	23.66	23.27	23.46	23.33	23.31	0
				18	0	22.87	23.06	22.83	22.85	22.70	22.79	0.5
				18	9	23.43	23.60	23.28	23.38	23.20	23.25	0
				18	18	22.89	23.11	22.75	22.88	22.75	22.80	0.5
				36	0	22.92	23.07	22.79	22.81	22.69	22.75	0.5
			QPSK	1	1	23.34	23.52	23.33	23.32	23.20	23.29	0
				1	18	23.38	23.52	23.21	23.33	23.15	23.30	0
				1	36	23.39	23.61	23.22	23.37	23.22	23.30	0
				18	0	22.38	22.57	22.31	22.33	22.19	22.29	1
				18	9	23.43	23.61	23.28	23.40	23.19	23.29	0
				18	18	22.37	22.59	22.22	22.34	22.20	22.24	1
				36	0	22.36	22.59	22.28	22.35	22.19	22.23	1
			16QAM	1	1	22.69	22.85	22.87	22.70	22.51	22.79	1
			64QAM	1	1	21.27	21.10	21.17	21.17	21.05	21.05	2.5
			256QAM	1	1	19.08	19.30	19.00	19.02	18.88	18.97	4.5
		CP	QPSK	1	1	22.09	22.31	22.13	22.03	21.88	22.02	1.5

NR TDD Band n77_ 20 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647334	650800	654266	657734	661200	664666	
						3 710.01 MHz	3 762 MHz	3 813.99 MHz	3 866.01 MHz	3 918 MHz	3 969.99	
20 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	23.34	23.64	23.55	23.42	23.31	23.40	0
				1	26	23.41	23.59	23.25	23.40	23.30	23.30	0
				1	49	23.51	23.74	23.21	23.51	23.40	23.43	0
				25	0	22.89	23.07	22.86	22.83	22.70	22.83	0.5
				25	13	23.41	23.58	23.26	23.38	23.23	23.34	0
				25	26	22.95	23.13	22.76	22.90	22.76	22.83	0.5
				50	0	22.94	23.11	22.82	22.91	22.73	22.83	0.5
			QPSK	1	1	23.39	23.55	23.48	23.36	23.22	23.38	0
				1	26	23.35	23.53	23.20	23.33	23.20	23.29	0
				1	49	23.46	23.69	23.20	23.44	23.31	23.40	0
				25	0	22.38	22.60	22.35	22.35	22.18	22.32	1
				25	13	23.44	23.62	23.29	23.41	23.30	23.34	0
				25	26	22.44	22.63	22.23	22.38	22.28	22.35	1
				50	0	22.43	22.62	22.25	22.42	22.25	22.33	1
			16QAM	1	1	22.87	22.79	22.86	22.80	22.86	22.86	1
			64QAM	1	1	21.24	21.35	21.30	21.20	20.91	21.17	2.5
			256QAM	1	1	19.10	19.19	19.13	19.03	18.83	19.03	4.5
		CP	QPSK	1	1	22.09	22.29	22.14	22.04	21.89	22.06	1.5

NR TDD Band n77_ 25 MHz Bandwidth Conducted Power

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	
25 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	23.42	23.70	23.67	23.62	23.47	23.57	0
				1	32	23.27	23.41	23.18	23.23	23.04	23.22	0
				1	63	23.56	23.78	23.33	23.63	23.50	23.60	0
				32	0	22.63	22.78	22.61	22.60	22.44	22.61	0.5
				32	17	23.19	23.36	23.07	23.22	22.99	23.15	0
				32	33	22.67	22.92	22.52	22.70	22.49	22.65	0.5
				64	0	22.64	22.86	22.56	22.70	22.50	22.60	0.5
			QPSK	1	1	23.50	23.58	23.64	23.48	23.34	23.42	0
				1	32	23.16	23.35	23.12	23.18	22.97	23.15	0
				1	63	23.49	23.71	23.26	23.51	23.38	23.49	0
				32	0	22.13	22.27	22.12	22.11	21.93	22.08	1
				32	17	23.21	23.37	23.06	23.26	23.05	23.17	0
				32	33	22.18	22.42	22.00	22.19	22.03	22.15	1
				64	0	22.15	22.32	22.07	22.19	21.98	22.09	1
			16QAM	1	1	22.31	22.55	22.46	22.12	22.41	22.31	1
			64QAM	1	1	21.13	21.17	21.14	21.06	20.86	21.02	2.5
			256QAM	1	1	18.89	19.12	19.08	18.93	18.72	18.87	4.5
		CP	QPSK	1	1	21.99	22.19	22.11	21.91	21.80	21.89	1.5

NR TDD Band n77_ 30 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						647668	651000	654334	657666	661000	664332	
						3 715.02 MHz	3 765 MHz	3 815.01 MHz	3 864.99 MHz	3 915 MHz	3 964.98 MHz	
30 MHz	30	DFT-s	pi/2 BPSK	1	1	23.62	23.50	23.52	23.24	23.22	23.17	0
				1	39	23.34	23.56	23.31	23.35	23.16	23.23	0
				1	76	23.40	23.63	23.12	23.32	23.26	23.27	0
				36	0	22.81	22.97	22.85	22.71	22.63	22.65	0.5
				36	21	23.31	23.55	23.21	23.31	23.16	23.20	0
				36	42	22.83	23.08	22.66	22.81	22.69	22.73	0.5
				75	0	22.79	23.02	22.74	22.78	22.64	22.67	0.5
			QPSK	1	1	23.28	23.38	23.43	23.14	23.11	23.14	0
				1	39	23.36	23.49	23.24	23.28	23.11	23.22	0
				1	76	23.31	23.53	23.07	23.27	23.15	23.24	0
				36	0	22.30	22.47	22.33	22.23	22.12	22.16	1
				36	21	23.33	23.58	23.24	23.30	23.15	23.25	0
				36	42	22.32	22.56	22.16	22.29	22.17	22.20	1
				75	0	22.32	22.51	22.24	22.28	22.14	22.17	1
			16QAM	1	1	22.64	22.49	22.85	22.58	22.63	22.48	1
			64QAM	1	1	21.16	21.22	21.35	21.10	20.89	20.96	2.5
			256QAM	1	1	18.92	19.21	19.17	18.86	18.84	18.81	4.5
		CP	QPSK	1	1	22.01	22.20	22.17	21.93	21.84	21.82	1.5

NR TDD Band n77_ 40 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						648000	651200	654400	657600	660800	664000	
						3720 MHz	3768 MHz	3816 MHz	3864 MHz	3912 MHz	3960 MHz	
40 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	23.36	23.56	23.60	23.35	23.28	23.28	0
				1	53	23.41	23.57	23.29	23.37	23.15	23.26	0
				1	104	23.46	23.73	23.23	23.49	23.33	23.50	0
				50	0	22.81	22.91	22.83	22.69	22.55	22.64	0.5
				50	28	23.33	23.53	23.20	23.30	23.12	23.23	0
				50	56	22.82	23.10	22.67	22.79	22.65	22.75	0.5
				100	0	22.82	22.98	22.75	22.75	22.61	22.69	0.5
			QPSK	1	1	23.29	23.46	23.50	23.19	23.17	23.18	0
				1	53	23.33	23.53	23.22	23.32	23.06	23.28	0
				1	104	23.39	23.66	23.15	23.37	23.28	23.41	0
				50	0	22.28	22.41	22.33	22.21	22.05	22.15	1
				50	28	23.35	23.52	23.21	23.32	23.10	23.27	0
				50	56	22.31	22.58	22.17	22.31	22.12	22.27	1
				100	0	22.31	22.52	22.22	22.27	22.08	22.19	1
			16QAM	1	1	22.82	22.88	22.66	22.67	22.88	22.60	1
			64QAM	1	1	21.01	21.28	21.29	20.97	20.88	20.92	2.5
			256QAM	1	1	18.90	19.17	19.21	18.81	18.77	18.76	4.5
		CP	QPSK	1	1	21.98	22.15	22.21	21.86	21.84	21.76	1.5

NR TDD Band n77_ 50 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						648334	652166	656000		659834	663666	
						3 725.01 MHz	3 782.49 MHz	3 840 MHz		3 897.51 MHz	3 954.99 MHz	
50 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	23.27	23.46	23.32		23.38	23.09	0
				1	67	23.36	23.56	23.17		23.27	23.17	0
				1	131	23.35	23.36	23.36		23.32	23.33	0
				64	0	22.80	22.95	22.64		22.80	22.60	0.5
				64	35	22.84	23.52	23.15		23.29	23.20	0
				64	69	22.87	22.96	22.72		22.76	22.73	0.5
				128	0	22.83	22.96	22.65		22.73	22.60	0.5
			QPSK	1	1	23.24	23.37	23.21		23.28	23.03	0
				1	67	23.29	23.47	23.08		23.21	23.14	0
				1	131	23.42	23.31	23.26		23.22	23.25	0
				64	0	22.28	22.47	22.15		22.29	22.10	1
				64	35	23.35	23.54	23.18		23.30	23.23	0
				64	69	22.37	22.46	22.23		22.24	22.26	1
				128	0	22.30	22.46	22.13		22.23	22.14	1
			16QAM	1	1	22.73	22.73	22.64		22.81	22.52	1
			64QAM	1	1	21.02	21.20	21.09		21.07	20.77	2.5
			256QAM	1	1	18.95	19.13	18.95		18.95	18.72	4.5
		CP	QPSK	1	1	21.99	22.19	21.95		22.04	21.71	1.5

NR TDD Band n77_60 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						648668	653556			658444	663332	
						3 730.02 MHz	3 803.34 MHz			3 876.66 MHz	3 949.98 MHz	
60 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	23.33	23.56			23.25	23.07	0
				1	81	23.38	23.48			23.41	23.26	0
				1	160	23.58	23.15			23.32	23.38	0
				81	0	22.74	22.99			22.75	22.58	0.5
				81	41	23.34	23.40			23.34	23.24	0
				81	81	22.88	22.70			22.83	22.75	0.5
				162	0	22.81	22.85			22.84	22.64	0.5
			QPSK	1	1	23.20	23.50			23.15	22.98	0
				1	81	23.35	23.42			23.33	23.20	0
				1	160	23.48	23.05			23.25	23.3	0
				81	0	22.23	22.50			22.24	22.04	1
				81	41	23.37	23.42			23.36	23.25	0
				81	81	22.38	22.20			22.33	22.24	1
				162	0	22.33	22.34			22.29	22.12	1
			16QAM	1	1	22.69	22.31			22.62	22.43	1
			64QAM	1	1	21.13	21.26			20.92	20.74	2.5
			256QAM	1	1	18.96	19.14			18.81	18.62	4.5
		CP	QPSK	1	1	21.95	22.21			21.84	21.69	1.5

NR TDD Band n77_70 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						649000	654336			658334	663000	
						3 750 MHz	3 804.99 MHz			3 875.01 MHz	3 945 MHz	
70 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	23.26	23.52			23.13	23.12	0
				1	95	23.44	23.47			23.42	23.40	0
				1	187	23.60	23.11			23.29	23.43	0
				90	0	22.87	23.09			22.74	22.69	0.5
				90	50	23.48	23.45			23.48	23.39	0
				90	99	23.02	22.74			22.83	22.89	0.5
				180	0	22.91	22.91			22.85	22.82	0.5
			QPSK	1	1	23.20	23.48			23.13	23.07	0
				1	95	23.36	23.41			23.35	23.33	0
				1	187	23.50	23.08			23.20	23.40	0
				90	0	22.37	22.61			22.26	22.22	1
				90	50	23.49	23.50			23.48	23.39	0
				90	99	22.54	22.22			22.38	22.45	1
				180	0	22.40	22.41			22.32	22.30	1
			16QAM	1	1	22.64	22.80			22.48	22.47	1
			64QAM	1	1	21.05	21.38			20.87	20.83	2.5
			256QAM	1	1	18.92	19.22			18.75	18.72	4.5
		CP	QPSK	1	1	22.00	22.21			21.83	21.72	1.5

NR TDD Band n77_ 80 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						649334		656000		662666		
						3 740.01 MHz		3 840 MHz		3 939.99 MHz		
80 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	23.08		23.60		23.05		0
				1	109	23.44		23.25		23.29		0
				1	215	23.66		23.34		23.42		0
				108	0	22.80		22.79		22.61		0.5
				108	55	23.44		23.23		23.24		0
				108	109	23.02		22.79		22.79		0.5
				216	0	22.97		22.81		22.73		0.5
			QPSK	1	1	23.23		23.52		23.04		0
				1	109	23.37		23.18		23.26		0
				1	215	23.61		23.27		23.32		0
				108	0	22.34		22.30		22.13		1
				108	55	23.46		23.27		23.30		0
				108	109	22.55		22.31		22.28		1
				216	0	22.43		22.28		22.23		1
			16QAM	1	1	22.64		22.77		22.30		1
			64QAM	1	1	21.07		21.34		20.90		2.5
			256QAM	1	1	18.95		19.25		18.63		4.5
		CP	QPSK	1	1	22.06		22.30		21.76		1.5

NR TDD Band n77_ 90 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						649668		656000		662332		
						3 745.02 MHz		3 840 MHz		3 934.98 MHz		
90 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	23.32		23.65		23.04		0
				1	123	23.48		23.23		23.22		0
				1	243	23.70		23.35		23.35		0
				120	0	22.83		22.81		22.53		0.5
				120	63	23.50		23.32		23.18		0
				120	125	23.11		22.81		22.74		0.5
				243	0	22.99		22.80		22.62		0.5
			QPSK	1	1	23.27		23.60		22.99		0
				1	123	23.42		23.22		23.12		0
				1	243	23.62		23.34		23.31		0
				120	0	22.32		22.31		22.02		1
				120	63	23.50		23.34		23.26		0
				120	125	22.59		22.35		22.21		1
				243	0	22.49		22.36		22.13		1
			16QAM	1	1	22.61		22.93		22.38		1
			64QAM	1	1	21.07		20.53		20.76		2.5
			256QAM	1	1	18.95		19.20		18.70		4.5
		CP	QPSK	1	1	22.03		22.28		21.77		1.5

NR TDD Band n77_ 100 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						650000				662000		
						3 750 MHz				3 930 MHz		
100 MHz	30	DFT-s OFDM	pi/2 BPSK	1	1	23.26				23.14		0
				1	137	23.53				23.25		0
				1	271	23.61				23.50		0
				135	0	22.83				22.57		0.5
				135	69	23.52				23.23		0
				135	138	23.09				22.81		0.5
				270	0	22.99				22.72		0.5
			QPSK	1	1	23.19				23.07		0
				1	137	23.47				23.19		0
				1	271	23.53				23.42		0
				135	0	22.35				22.07		1
				135	69	23.53				23.27		0
				135	138	22.60				22.30		1
				270	0	22.50				22.22		1
			16QAM	1	1	22.54				22.43		1
			64QAM	1	1	21.14				20.89		2.5
			256QAM	1	1	18.99				18.62		4.5
		CP	QPSK	1	1	22.00				21.82		1.5

10.4.5 NR TDD Band n77 DoD (MIMO1 Ant.) Conducted Power

NR TDD Band n77 DoD_10 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630334	633334	636332	
						3445.01 ㎒	3500.01 ㎒	3544.98 ㎒	
10 ㎒	30	DFT-s	pi/2 BPSK	1	1	21.36	21.85	21.90	0
				1	12	21.54	21.91	22.21	0
				1	22	21.49	21.77	22.29	0
				12	0	20.83	21.31	21.63	0.5
				12	6	21.40	21.81	22.24	0
				12	12	20.91	21.24	21.77	0.5
				24	0	20.82	21.25	21.68	0.5
			QPSK	1	1	21.36	21.89	22.12	0
				1	12	21.56	21.88	22.31	0
				1	22	21.51	21.78	22.27	0
				12	0	20.26	20.78	21.15	1
				12	6	21.39	21.77	21.29	0
				12	12	20.40	20.76	20.85	1
				24	0	20.33	20.72	20.88	1
			16QAM	1	1	20.26	20.81	21.16	1
			64QAM	1	1	18.73	19.21	19.28	2.5
			256QAM	1	1	16.77	17.95	17.54	4.5
		CP	QPSK	1	1	19.95	20.53	20.74	1.5

NR TDD Band n77 DoD_15 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630500	633334	636166	
						3457.5 ㎒	3500.01 ㎒	3542.49 ㎒	
15	30	DFT-s	pi/2 BPSK	1	1	22.17	21.99	22.13	0
				1	18	21.55	21.89	22.24	0
				1	36	21.66	21.85	22.38	0
				18	0	20.90	21.45	21.63	0.5
				18	9	21.52	21.91	22.17	0
				18	18	21.05	21.36	21.72	0.5
				36	0	20.99	21.39	21.71	0.5
			QPSK	1	1	21.39	21.94	22.06	0
				1	18	21.48	21.83	22.20	0
				1	36	21.60	21.79	22.32	0
				18	0	20.39	20.94	21.12	1
				18	9	21.49	21.95	22.18	0
				18	18	20.52	20.84	20.77	1
				36	0	20.48	20.86	20.74	1
			16QAM	1	1	20.50	21.21	21.32	1
			64QAM	1	1	18.86	19.41	19.66	2.5
			256QAM	1	1	16.86	17.38	17.75	4.5
		CP	QPSK	1	1	20.06	20.61	20.78	1.5

NR TDD Band n77 DoD_20 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630668	633334	636000	
						3460.02 ㎒	3500.01 ㎒	3540 ㎒	
20 ㎒	30	DFT-s	pi/2 BPSK	1	1	22.09	22.14	22.08	0
				1	26	22.10	21.91	22.12	0
				1	49	21.84	21.90	22.33	0
				25	0	21.00	21.48	21.51	0.5
				25	13	21.63	21.92	22.11	0
				25	26	21.19	21.33	21.70	0.5
				50	0	21.10	21.39	21.63	0.5
			QPSK	1	1	21.57	22.13	22.10	0
				1	26	21.60	21.95	22.14	0
				1	49	21.76	21.95	22.43	0
				25	0	20.49	20.97	21.02	1
				25	13	21.63	21.89	22.09	0
				25	26	20.67	20.81	21.22	1
				50	0	20.62	20.94	21.11	1
			16QAM	1	1	20.57	20.99	20.98	1
			64QAM	1	1	19.08	19.56	19.54	2.5
			256QAM	1	1	17.04	17.65	17.67	4.5
		CP	QPSK	1	1	20.18	20.71	20.68	1.5

NR TDD Band n77 DoD_25 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630866	633334	635800	
						3462.99 ㎒	3500.01 ㎒	3537 ㎒	
25	30	DFT-s	pi/2 BPSK	1	1	21.72	22.28	22.00	0
				1	32	21.56	21.79	21.85	0
				1	63	22.00	21.97	22.25	0
				32	0	20.88	21.26	21.21	0.5
				32	17	21.53	21.71	21.80	0
				32	33	21.04	21.06	21.37	0.5
				64	0	20.93	21.22	21.29	0.5
			QPSK	1	1	21.72	22.29	21.99	0
				1	32	21.70	21.85	21.88	0
				1	63	21.97	21.97	22.35	0
				32	0	20.36	20.77	20.72	1
				32	17	21.56	21.73	21.83	0
				32	33	20.49	20.57	20.88	1
				64	0	20.39	20.68	20.77	1
			16QAM	1	1	20.74	21.24	21.28	1
			64QAM	1	1	19.07	19.62	19.46	2.5
			256QAM	1	1	17.03	17.58	17.55	4.5
		CP	QPSK	1	1	20.19	20.74	20.55	1.5

NR TDD Band n77 DoD_30 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631000	633334	635666	
						3465 ㎒	3500.01 ㎒	3534.99 ㎒	
30 ㎒	30	DFT-s	pi/2 BPSK	1	1	22.09	22.01	21.90	0
				1	39	21.71	21.87	21.95	0
				1	76	21.86	21.74	22.23	0
				36	0	21.00	21.38	21.35	0.5
				36	21	21.68	21.88	21.94	0
				36	42	21.25	21.23	21.53	0.5
				75	0	21.12	21.34	21.42	0.5
			QPSK	1	1	21.55	22.02	21.92	0
				1	39	21.79	22.00	22.05	0
				1	76	21.86	21.74	22.20	0
				36	0	20.49	20.88	20.82	1
				36	21	21.67	21.84	21.93	0
				36	42	20.71	20.70	21.01	1
				75	0	20.60	20.83	20.94	1
			16QAM	1	1	20.43	20.98	20.92	1
			64QAM	1	1	19.04	19.55	19.50	2.5
			256QAM	1	1	17.14	17.70	17.47	4.5
		CP	QPSK	1	1	20.17	20.71	20.62	1.5

NR TDD Band n77 DoD_40 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631334		635332	
						3470.01 ㎒		3529.98 ㎒	
40 ㎒	30	DFT-s	pi/2 BPSK	1	1	21.84		21.96	0
				1	53	21.85		21.87	0
				1	104	21.96		22.22	0
				50	0	21.07		21.27	0.5
				50	28	21.75		21.82	0
				50	56	21.25		21.44	0.5
				100	0	21.16		21.36	0.5
			QPSK	1	1	21.60		21.98	0
				1	53	21.88		21.96	0
				1	104	21.98		22.24	0
				50	0	20.55		20.76	1
				50	28	21.74		21.80	0
				50	56	20.75		20.89	1
				100	0	20.66		20.88	1
			16QAM	1	1	20.64		20.95	1
			64QAM	1	1	19.12		19.43	2.5
			256QAM	1	1	17.07		17.56	4.5
		CP	QPSK	1	1	20.22		20.59	1.5

NR TDD Band n77 DoD_50 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631668		635000	
						3475.02 ㎒		3525 ㎒	
50 ㎒	30	DFT-s	pi/2 BPSK	1	1	21.56		21.98	0
				1	67	21.84		21.81	0
				1	131	21.81		22.13	0
				64	0	21.13		21.29	0.5
				64	35	21.79		21.79	0
				64	69	21.26		21.36	0.5
				128	0	21.21		21.34	0.5
			QPSK	1	1	21.59		21.98	0
				1	67	21.88		21.82	0
				1	131	21.83		22.14	0
				64	0	20.62		20.78	1
				64	35	21.80		21.79	0
				64	69	20.76		20.86	1
				128	0	20.67		20.81	1
			16QAM	1	1	20.48		20.95	1
			64QAM	1	1	19.06		19.63	2.5
			256QAM	1	1	17.21		17.13	4.5
		CP	QPSK	1	1	20.23		20.76	1.5

NR TDD Band n77 DoD_60 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
60 ㎒	30	DFT-s	pi/2 BPSK	1	1		21.92		0
				1	81		21.90		0
				1	160		21.70		0
				81	0		21.44		0.5
				81	41		21.87		0
				81	81		21.10		0.5
				162	0		21.33		0.5
			QPSK	1	1		21.94		0
				1	81		21.93		0
				1	160		21.70		0
				81	0		20.89		1
				81	41		21.87		0
				81	81		20.61		1
				162	0		20.77		1
			16QAM	1	1		20.93		1
			64QAM	1	1		19.55		2.5
			256QAM	1	1		17.58		4.5
		CP	QPSK	1	1		20.65		1.5

NR TDD Band n77 DoD_70 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
70 ㎒	30	DFT-s	pi/2 BPSK	1	1		21.81		0
				1	95		21.90		0
				1	187		21.68		0
				90	0		21.41		0.5
				90	50		21.87		0
				90	99		21.18		0.5
				180	0		21.30		0.5
			QPSK	1	1		21.83		0
				1	95		21.87		0
				1	187		21.60		0
				90	0		20.89		1
				90	50		21.90		0
				90	99		20.69		1
				180	0		20.78		1
			16QAM	1	1		20.76		1
			64QAM	1	1		19.34		2.5
			256QAM	1	1		17.43		4.5
		CP	QPSK	1	1		20.45		1.5

NR TDD Band n77 DoD _80 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
80 ㎒	30	DFT-s	pi/2 BPSK	1	1		21.82		0
				1	109		21.85		0
				1	215		21.78		0
				108	0		21.40		0.5
				108	55		21.85		0
				108	109		21.19		0.5
				216	0		21.32		0.5
			QPSK	1	1		21.77		0
				1	109		21.88		0
				1	215		21.78		0
				108	0		20.85		1
				108	55		21.85		0
				108	109		20.67		1
				216	0		20.78		1
			16QAM	1	1		20.76		1
			64QAM	1	1		19.42		2.5
			256QAM	1	1		17.87		4.5
		CP	QPSK	1	1		20.62		1.5

NR TDD Band n77 DoD_90 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
90 ㎒	30	DFT-s	pi/2 BPSK	1	1		21.88		0
				1	123		21.95		0
				1	243		22.00		0
				120	0		21.53		0.5
				120	63		21.73		0
				120	125		21.73		0.5
				243	0		21.72		0.5
			QPSK	1	1		22.09		0
				1	123		22.00		0
				1	243		21.97		0
				120	0		20.96		1
				120	63		22.00		0
				120	125		20.77		1
				243	0		20.88		1
			16QAM	1	1		20.81		1
			64QAM	1	1		19.48		2.5
			256QAM	1	1		17.88		4.5
		CP	QPSK	1	1		20.55		1.5

NR TDD Band n77 DoD_100 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
100㎒	30	DFT-s	pi/2 BPSK	1	1		21.72		0
				1	137		22.02		0
				1	271		22.10		0
				135	0		21.43		0.5
				135	69		21.98		0
				135	138		21.33		0.5
				270	0		21.40		0.5
			QPSK	1	1		21.71		0
				1	137		21.98		0
				1	271		22.04		0
				135	0		20.94		1
				135	69		21.97		0
				135	138		20.81		1
				270	0		20.88		1
			16QAM	1	1		20.69		1
			64QAM	1	1		19.34		2.5
			256QAM	1	1		17.88		4.5
		CP	QPSK	1	1		20.37		1.5

10.4.6 NR TDD Band n77 DoD (MIMO2 Ant.) Conducted Power

NR TDD Band n77 DoD_10 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630334	633334	636332	
						3445.01 ㎒	3500.01 ㎒	3544.98 ㎒	
10 ㎒	30	DFT-s	pi/2 BPSK	1	1	23.13	23.66	23.44	0
				1	12	23.36	23.66	23.48	0
				1	22	23.30	23.56	23.46	0
				12	0	22.70	23.04	22.87	0.5
				12	6	23.24	23.56	23.43	0
				12	12	22.67	23.02	22.93	0.5
				24	0	22.65	23.00	22.87	0.5
			QPSK	1	1	23.17	23.58	23.34	0
				1	12	23.26	23.62	23.43	0
				1	22	23.24	23.49	23.40	0
				12	0	22.13	22.50	22.34	1
				12	6	23.27	23.58	23.44	0
				12	12	22.19	22.54	22.37	1
				24	0	22.15	22.47	22.38	1
			16QAM	1	1	22.57	22.91	22.72	1
			64QAM	1	1	20.98	21.33	21.15	2.5
			256QAM	1	1	18.69	19.17	18.89	4.5
		CP	QPSK	1	1	21.79	22.17	21.99	1.5

NR TDD Band n77 DoD_15 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630500	633334	636166	
						3457.5 ㎒	3500.01 ㎒	3542.49 ㎒	
15	30	DFT-s	pi/2 BPSK	1	1	23.44	23.63	23.43	0
				1	18	23.31	23.56	23.38	0
				1	36	23.34	23.52	23.46	0
				18	0	22.72	23.09	22.87	0.5
				18	9	23.27	23.58	23.34	0
				18	18	22.74	23.03	22.87	0.5
				36	0	22.75	23.03	22.88	0.5
			QPSK	1	1	23.19	23.56	23.34	0
				1	18	23.23	23.48	23.32	0
				1	36	23.25	23.46	23.41	0
				18	0	22.21	22.58	22.35	1
				18	9	23.28	23.57	23.39	0
				18	18	22.21	22.52	22.33	1
				36	0	22.23	22.50	22.32	1
			16QAM	1	1	22.59	22.83	22.65	1
			64QAM	1	1	20.90	21.33	21.18	2.5
			256QAM	1	1	18.82	19.18	18.98	4.5
		CP	QPSK	1	1	21.85	22.17	22.01	1.5

NR TDD Band n77 DoD_20 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630668	633334	636000	
						3460.02 ㎒	3500.01 ㎒	3540 ㎒	
20 ㎒	30	DFT-s	pi/2 BPSK	1	1	23.42	23.72	23.50	0
				1	26	23.41	23.56	23.39	0
				1	49	23.43	23.60	23.47	0
				25	0	22.73	23.10	22.86	0.5
				25	13	23.30	23.58	23.36	0
				25	26	22.77	23.03	22.86	0.5
				50	0	22.78	23.07	22.86	0.5
			QPSK	1	1	23.30	23.65	23.41	0
				1	26	23.26	23.52	23.27	0
				1	49	23.35	23.53	23.42	0
				25	0	22.22	22.60	22.37	1
				25	13	23.33	23.57	23.36	0
				25	26	22.28	22.53	22.34	1
				50	0	22.28	22.58	22.41	1
			16QAM	1	1	22.73	22.19	22.18	1
			64QAM	1	1	21.08	21.28	21.06	2.5
			256QAM	1	1	18.88	19.11	18.96	4.5
		CP	QPSK	1	1	21.87	22.23	22.07	1.5

NR TDD Band n77 DoD_25 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						630866	633334	635800	
						3462.99 ㎒	3500.01 ㎒	3537 ㎒	
25	30	DFT-s	pi/2 BPSK	1	1	23.57	23.88	23.66	0
				1	32	23.12	23.44	23.21	0
				1	63	23.57	23.66	23.59	0
				32	0	22.63	22.89	22.68	0.5
				32	17	23.15	23.36	23.11	0
				32	33	22.60	22.78	22.56	0.5
				64	0	22.59	22.83	22.62	0.5
			QPSK	1	1	23.47	23.74	23.52	0
				1	32	23.11	23.38	23.14	0
				1	63	23.50	23.54	23.44	0
				32	0	22.09	22.35	22.18	1
				32	17	23.15	23.36	23.10	0
				32	33	22.09	22.23	22.03	1
				64	0	22.07	22.31	22.13	1
			16QAM	1	1	21.29	21.90	21.38	1
			64QAM	1	1	21.06	21.28	21.03	2.5
			256QAM	1	1	18.83	19.16	18.94	4.5
		CP	QPSK	1	1	21.89	22.20	22.01	1.5

NR TDD Band n77 DoD_30 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631000	633334	635666	
						3465 ㎒	3500.01 ㎒	3534.99 ㎒	
30 ㎒	30	DFT-s	pi/2 BPSK	1	1	23.31	23.57	23.48	0
				1	39	23.33	23.57	23.27	0
				1	76	23.37	23.42	23.31	0
				36	0	22.73	23.00	22.81	0.5
				36	21	23.26	23.52	23.29	0
				36	42	22.79	22.91	22.69	0.5
				75	0	22.74	22.99	22.78	0.5
			QPSK	1	1	23.22	23.48	23.38	0
				1	39	23.22	23.53	23.21	0
				1	76	23.30	23.33	23.25	0
				36	0	22.24	22.50	22.32	1
				36	21	23.24	23.49	23.28	0
				36	42	22.26	22.37	22.18	1
				75	0	22.27	22.48	22.29	1
			16QAM	1	1	22.64	22.79	22.86	1
			64QAM	1	1	20.96	21.34	21.13	2.5
			256QAM	1	1	18.87	19.19	19.00	4.5
		CP	QPSK	1	1	21.87	22.19	22.09	1.5

NR TDD Band n77 DoD_40 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631334		635332	
						3470.01 ㎒		3529.98 ㎒	
40 ㎒	30	DFT-s	pi/2 BPSK	1	1	23.46		23.61	0
				1	53	23.39		23.27	0
				1	104	23.56		23.32	0
				50	0	22.78		22.88	0.5
				50	28	23.32		23.24	0
				50	56	22.80		22.61	0.5
				100	0	22.79		22.80	0.5
			QPSK	1	1	23.28		23.54	0
				1	53	23.31		23.21	0
				1	104	23.42		23.28	0
				50	0	22.25		22.36	1
				50	28	23.30		23.27	0
				50	56	22.28		22.12	1
				100	0	22.29		22.30	1
			16QAM	1	1	22.70		22.10	1
			64QAM	1	1	21.06		21.24	2.5
			256QAM	1	1	18.93		19.10	4.5
		CP	QPSK	1	1	21.92		22.21	1.5

NR TDD Band n77 DoD_50 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						631668		635000	
						3475.02 ㎒		3525 ㎒	
50 ㎒	30	DFT-s	pi/2 BPSK	1	1	23.06		23.61	0
				1	67	23.37		23.30	0
				1	131	23.43		23.24	0
				64	0	22.80		22.96	0.5
				64	35	23.30		23.29	0
				64	69	22.86		22.63	0.5
				128	0	22.82		22.82	0.5
			QPSK	1	1	23.27		23.53	0
				1	67	23.29		23.22	0
				1	131	23.37		23.16	0
				64	0	22.26		22.44	1
				64	35	23.33		23.28	0
				64	69	22.35		22.10	1
				128	0	22.28		22.31	1
			16QAM	1	1	22.66		22.89	1
			64QAM	1	1	21.01		21.45	2.5
			256QAM	1	1	18.86		19.28	4.5
		CP	QPSK	1	1	21.94		22.26	1.5

NR TDD Band n77 DoD_60 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
60 ㎒	30	DFT-s	pi/2 BPSK	1	1		23.43		0
				1	81		23.55		0
				1	160		23.15		0
				81	0		22.99		0.5
				81	41		23.48		0
				81	81		22.73		0.5
				162	0		22.90		0.5
			QPSK	1	1		23.37		0
				1	81		23.49		0
				1	160		23.07		0
				81	0		22.50		1
				81	41		23.48		0
				81	81		22.20		1
				162	0		22.37		1
			16QAM	1	1		22.74		1
			64QAM	1	1		21.28		2.5
			256QAM	1	1		19.04		4.5
		CP	QPSK	1	1		22.10		1.5

NR TDD Band n77 DoD_70 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
70 ㎒	30	DFT-s	pi/2 BPSK	1	1		23.45		0
				1	95		23.56		0
				1	187		23.05		0
				90	0		22.94		0.5
				90	50		23.47		0
				90	99		22.74		0.5
				180	0		22.89		0.5
			QPSK	1	1		23.30		0
				1	95		23.45		0
				1	187		22.99		0
				90	0		22.43		1
				90	50		23.49		0
				90	99		22.24		1
				180	0		22.38		1
			16QAM	1	1		22.56		1
			64QAM	1	1		21.19		2.5
			256QAM	1	1		19.03		4.5
		CP	QPSK	1	1		22.00		1.5

NR TDD Band n77 DoD _80 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
80 ㎒	30	DFT-s	pi/2 BPSK	1	1		23.35		0
				1	109		23.51		0
				1	215		23.02		0
				108	0		22.97		0.5
				108	55		23.48		0
				108	109		22.70		0.5
				216	0		22.83		0.5
			QPSK	1	1		23.27		0
				1	109		23.46		0
				1	215		22.97		0
				108	0		22.45		1
				108	55		23.48		0
				108	109		22.18		1
				216	0		22.32		1
			16QAM	1	1		22.56		1
			64QAM	1	1		21.25		2.5
			256QAM	1	1		19.03		4.5
		CP	QPSK	1	1		22.06		1.5

NR TDD Band n77 DoD_90 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
90 ㎒	30	DFT-s	pi/2 BPSK	1	1		23.37		0
				1	123		23.53		0
				1	243		23.07		0
				120	0		22.94		0.5
				120	63		23.48		0
				120	125		22.66		0.5
				243	0		22.84		0.5
			QPSK	1	1		23.30		0
				1	123		23.49		0
				1	243		22.97		0
				120	0		22.45		1
				120	63		23.50		0
				120	125		22.12		1
				243	0		22.33		1
			16QAM	1	1		22.63		1
			64QAM	1	1		21.09		2.5
			256QAM	1	1		18.95		4.5
		CP	QPSK	1	1		22.04		1.5

NR TDD Band n77 DoD_100 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							633334		
							3500.01 ㎒		
100 ㎒	30	DFT-s	pi/2 BPSK	1	1		23.37		0
				1	137		23.53		0
				1	271		23.12		0
				135	0		22.94		0.5
				135	69		23.45		0
				135	138		22.64		0.5
				270	0		22.81		0.5
			QPSK	1	1		23.29		0
				1	137		23.47		0
				1	271		23.03		0
				135	0		22.41		1
				135	69		23.47		0
				135	138		22.12		1
				270	0		22.29		1
			16QAM	1	1		22.61		1
			64QAM	1	1		21.07		2.5
			256QAM	1	1		18.92		4.5
		CP	QPSK	1	1		21.99		1.5

10.4.7 NR TDD Band n78 (MIMO1 Ant.) Conducted Power

NR TDD Band n78 _10 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						647000	650000	653000	
						3705 ㎒	3750 ㎒	3795 ㎒	
10 ㎒	30	DFT-s	pi/2 BPSK	1	1	22.26	22.17	22.02	0
				1	12	22.32	22.22	21.94	0
				1	22	22.25	22.27	21.76	0
				12	0	21.64	21.65	21.39	0.5
				12	6	22.17	22.19	21.85	0
				12	12	21.63	21.64	21.27	0.5
				24	0	21.71	21.61	21.33	0.5
			QPSK	1	1	22.22	22.17	21.99	0
				1	12	22.27	22.30	21.96	0
				1	22	22.22	22.21	21.82	0
				12	0	21.16	21.13	20.86	1
				12	6	22.18	22.18	21.84	0
				12	12	21.16	21.21	20.77	1
				24	0	21.18	21.14	20.82	1
			16QAM	1	1	21.29	21.14	21.06	1
			64QAM	1	1	19.93	19.89	19.70	2.5
			256QAM	1	1	17.50	17.50	17.58	4.5
		CP	QPSK	1	1	20.80	20.75	20.55	1.5

NR TDD Band n78 _15 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						647166	650000	652832	
						3707.5 ㎒	3750 ㎒	3792.48 ㎒	
15 ㎒	30	DFT-s	pi/2 BPSK	1	1	22.20	22.11	21.99	0
				1	18	22.18	22.13	21.86	0
				1	36	22.23	22.20	21.72	0
				18	0	21.65	21.60	21.44	0.5
				18	10	22.13	22.12	21.86	0
				18	20	21.66	21.66	21.28	0.5
				36	0	21.66	21.59	21.36	0.5
			QPSK	1	1	22.15	22.08	21.95	0
				1	18	22.11	22.09	21.85	0
				1	36	22.15	22.14	21.61	0
				18	0	21.14	21.13	20.90	1
				18	10	22.15	22.15	21.82	0
				18	20	21.17	21.16	20.74	1
				36	0	21.16	21.10	20.86	1
			16QAM	1	1	21.19	21.14	21.08	1
			64QAM	1	1	19.92	19.89	19.76	2.5
			256QAM	1	1	17.57	17.57	17.62	4.5
		CP	QPSK	1	1	20.67	20.60	20.61	1.5

NR TDD Band n78 _20 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						647334	650000	652666	
						3710.01 ㎒	3750 ㎒	3789.99 ㎒	
20 ㎒	30	DFT-s	pi/2 BPSK	1	1	22.20	22.13	22.04	0
				1	26	22.13	22.11	21.87	0
				1	49	22.22	22.28	21.72	0
				25	0	21.67	21.60	21.43	0.5
				25	13	22.16	22.13	21.86	0
				25	26	21.65	21.70	21.29	0.5
				50	0	21.71	21.65	21.39	0.5
			QPSK	1	1	22.19	22.12	22.05	0
				1	26	22.14	22.14	21.91	0
				1	49	22.19	22.29	21.76	0
				25	0	21.17	21.11	21.00	1
				25	13	22.13	22.07	21.97	0
				25	26	21.15	21.18	20.80	1
				50	0	21.20	21.16	20.95	1
			16QAM	1	1	21.30	21.22	21.20	1
			64QAM	1	1	19.97	19.88	19.86	2.5
			256QAM	1	1	17.79	17.07	17.00	4.5
		CP	QPSK	1	1	20.86	20.83	20.64	1.5

NR TDD Band n78 _25 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						647500	650000	652500	
						3712.5 ㎒	3750 ㎒	3787.5 ㎒	
25 ㎒	30	DFT-s	pi/2 BPSK	1	1	22.19	22.27	22.36	0
				1	32	22.19	21.99	21.92	0
				1	63	22.18	22.33	22.03	0
				32	0	21.60	21.45	21.44	0.5
				32	17	21.97	21.95	21.84	0
				32	33	21.46	21.50	21.21	0.5
				64	0	21.46	21.48	21.32	0.5
			QPSK	1	1	22.22	22.22	22.35	0
				1	32	22.26	22.35	22.17	0
				1	63	22.26	22.42	21.97	0
				32	0	20.97	20.94	20.91	1
				32	17	21.99	21.98	21.82	0
				32	33	20.94	20.97	20.71	1
				64	0	20.96	20.96	20.81	1
			16QAM	1	1	21.32	21.16	21.29	1
			64QAM	1	1	19.59	19.52	19.57	2.5
			256QAM	1	1	17.73	17.74	17.73	4.5
		CP	QPSK	1	1	20.62	20.63	20.64	1.5

NR TDD Band n78 _30 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						647666	650000	652332	
						3715 ㎒	3750 ㎒	3784.98 ㎒	
30 ㎒	30	DFT-s	pi/2 BPSK	1	1	22.12	22.09	22.14	0
				1	39	22.10	22.13	22.04	0
				1	76	22.12	22.27	21.75	0
				36	0	21.57	21.55	21.57	0.5
				36	21	22.08	22.06	22.02	0
				36	42	21.56	21.66	21.34	0.5
				75	0	21.57	21.58	21.49	0.5
			QPSK	1	1	22.13	22.04	22.11	0
				1	39	22.11	22.07	22.03	0
				1	76	22.09	22.17	21.71	0
				36	0	21.05	21.03	21.04	1
				36	21	22.06	22.11	22.03	0
				36	42	21.05	21.11	20.84	1
				75	0	21.07	21.05	20.94	1
			16QAM	1	1	20.97	21.01	21.10	1
			64QAM	1	1	19.54	19.58	19.66	2.5
			256QAM	1	1	17.74	17.43	17.49	4.5
		CP	QPSK	1	1	20.58	20.60	20.66	1.5

NR TDD Band n78 _40 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						647800		652000	
						3720 ㎒		3780 ㎒	
40 ㎒	30	DFT-s	pi/2 BPSK	1	1	22.22		22.25	0
				1	53	22.21		22.15	0
				1	104	22.18		21.86	0
				50	0	21.59		21.61	0.5
				50	28	22.12		22.08	0
				50	56	21.51		21.38	0.5
				100	0	21.56		21.51	0.5
			QPSK	1	1	22.16		22.21	0
				1	53	22.19		22.14	0
				1	104	22.12		21.85	0
				50	0	21.07		21.08	1
				50	28	22.13		22.07	0
				50	56	21.04		20.89	1
				100	0	21.08		21.01	1
			16QAM	1	1	21.07		21.04	1
			64QAM	1	1	19.57		19.63	2.5
			256QAM	1	1	17.58		17.35	4.5
		CP	QPSK	1	1	20.57		20.71	1.5

NR TDD Band n78 _50 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						648334		651666	
						3725.01 ㎒		3774.99 ㎒	
50 ㎒	30	DFT-s	pi/2 BPSK	1	1	22.16		22.05	0
				1	67	22.07		22.02	0
				1	131	22.07		21.70	0
				64	0	21.55		21.52	0.5
				64	35	22.02		21.98	0
				64	69	21.47		21.32	0.5
				128	0	21.49		21.46	0.5
			QPSK	1	1	21.98		21.98	0
				1	67	21.97		21.96	0
				1	131	22.04		21.60	0
				64	0	20.99		21.03	1
				64	35	22.01		22.02	0
				64	69	20.98		20.79	1
				128	0	20.97		20.93	1
			16QAM	1	1	21.32		21.36	1
			64QAM	1	1	19.11		19.13	2.5
			256QAM	1	1	17.64		17.23	4.5
		CP	QPSK	1	1	20.66		20.69	1.5

NR TDD Band n78 _60 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							650000		
							3750 ㎒		
60 ㎒	30	DFT-s	pi/2 BPSK	1	1		22.02		0
				1	81		22.00		0
				1	160		22.06		0
				81	0		21.58		0.5
				81	41		22.11		0
				81	81		21.56		0.5
				162	0		21.59		0.5
			QPSK	1	1		22.12		0
				1	81		22.20		0
				1	160		22.17		0
				81	0		21.06		1
				81	41		22.14		0
				81	81		21.04		1
				162	0		21.06		1
			16QAM	1	1		21.22		1
			64QAM	1	1		19.75		2.5
			256QAM	1	1		17.27		4.5
		CP	QPSK	1	1		20.67		1.5

NR TDD Band n78 _70 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							650000		
							3750 MHz		
70 MHz	30	DFT-s	pi/2 BPSK	1	1		22.12		0
				1	95		22.18		0
				1	187		22.05		0
				90	0		21.51		0.5
				90	50		22.07		0
				90	99		21.52		0.5
				180	0		21.49		0.5
			QPSK	1	1		21.89		0
				1	95		21.96		0
				1	187		21.83		0
				90	0		20.94		1
				90	50		22.02		0
				90	99		20.97		1
				180	0		20.94		1
			16QAM	1	1		20.99		1
			64QAM	1	1		19.58		2.5
			256QAM	1	1		17.16		4.5
		CP	QPSK	1	1		20.53		1.5

NR TDD Band n78 _80 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							650000		
							3750 MHz		
80 MHz	30	DFT-s	pi/2 BPSK	1	1		21.92		0
				1	109		22.11		0
				1	215		22.07		0
				108	0		21.42		0.5
				108	55		22.02		0
				108	109		21.44		0.5
				216	0		21.41		0.5
			QPSK	1	1		21.95		0
				1	109		21.94		0
				1	215		21.72		0
				108	0		20.89		1
				108	55		22.02		0
				108	109		20.92		1
				216	0		20.93		1
			16QAM	1	1		20.93		1
			64QAM	1	1		19.53		2.5
			256QAM	1	1		17.94		4.5
		CP	QPSK	1	1		20.55		1.5

NR TDD Band n78 _90 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							650000		
							3750 MHz		
90 MHz	30	DFT-s	pi/2 BPSK	1	1		21.94		0
				1	123		22.04		0
				1	243		21.76		0
				120	0		21.39		0.5
				120	63		22.03		0
				120	125		21.42		0.5
				243	0		21.45		0.5
			QPSK	1	1		21.94		0
				1	123		22.02		0
				1	243		21.66		0
				120	0		20.92		1
				120	63		22.03		0
				120	125		20.93		1
				243	0		20.91		1
			16QAM	1	1		21.00		1
			64QAM	1	1		19.65		2.5
			256QAM	1	1		17.49		4.5
		CP	QPSK	1	1		20.58		1.5

NR TDD Band n78 _100 MHz Bandwidth Conducted Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							650000		
							3750 MHz		
100 MHz	30	DFT-s	pi/2 BPSK	1	1		21.91		0
				1	137		22.04		0
				1	271		21.66		0
				135	0		21.41		0.5
				135	69		22.05		0
				135	138		21.39		0.5
				270	0		21.43		0.5
			QPSK	1	1		21.91		0
				1	137		21.96		0
				1	271		21.59		0
				135	0		20.91		1
				135	69		22.05		0
				135	138		20.88		1
				270	0		20.91		1
			16QAM	1	1		20.93		1
			64QAM	1	1		19.56		2.5
			256QAM	1	1		17.54		4.5
		CP	QPSK	1	1		20.56		1.5

10.4.8 NR TDD Band n78 (MIMO2 Ant.) Conducted Power

NR TDD Band n78 _10 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						647000	650000	653000	
						3705 ㎒	3750 ㎒	3795 ㎒	
10 ㎒	30	DFT-s	pi/2 BPSK	1	1	23.29	23.38	23.46	0
				1	12	23.39	23.47	23.53	0
				1	22	23.34	23.45	23.35	0
				12	0	22.67	22.79	22.88	0.5
				12	6	23.22	23.35	23.34	0
				12	12	22.72	22.88	22.80	0.5
				24	0	22.70	22.79	22.82	0.5
			QPSK	1	1	23.22	23.34	23.42	0
				1	12	23.35	23.52	23.46	0
				1	22	23.28	23.47	23.29	0
				12	0	22.18	22.35	22.34	1
				12	6	23.24	23.42	23.34	0
				12	12	22.21	22.44	22.31	1
				24	0	22.17	22.33	22.28	1
			16QAM	1	1	22.31	22.42	22.52	1
			64QAM	1	1	20.64	20.77	20.86	2.5
			256QAM	1	1	18.86	18.89	18.95	4.5
		CP	QPSK	1	1	21.81	21.86	21.95	1.5

NR TDD Band n78 _15 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						647166	650000	652832	
						3707.5 ㎒	3750 ㎒	3792.48 ㎒	
15 ㎒	30	DFT-s	pi/2 BPSK	1	1	23.29	23.40	23.46	0
				1	18	23.30	23.45	23.32	0
				1	36	23.38	23.53	23.25	0
				18	0	22.73	22.84	22.91	0.5
				18	10	23.26	23.42	23.36	0
				18	20	22.78	22.95	22.78	0.5
				36	0	22.78	22.88	22.91	0.5
			QPSK	1	1	23.27	23.36	23.43	0
				1	18	23.27	23.47	23.30	0
				1	36	23.34	23.50	23.21	0
				18	0	22.22	22.36	22.39	1
				18	10	23.27	23.43	23.33	0
				18	20	22.26	22.43	22.27	1
				36	0	22.22	22.37	22.33	1
			16QAM	1	1	22.23	22.35	22.43	1
			64QAM	1	1	20.74	20.85	20.94	2.5
			256QAM	1	1	19.06	18.96	18.64	4.5
		CP	QPSK	1	1	21.79	21.88	22.01	1.5

NR TDD Band n78 _20 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						647334	650000	652666	
						3710.01 ㎒	3750 ㎒	3789.99 ㎒	
20 ㎒	30	DFT-s	pi/2 BPSK	1	1	23.35	23.43	23.55	0
				1	26	23.31	23.44	23.37	0
				1	49	23.43	23.64	23.35	0
				25	0	22.75	22.83	22.92	0.5
				25	13	23.31	23.38	23.40	0
				25	26	22.81	23.00	22.82	0.5
				50	0	22.82	22.91	22.90	0.5
			QPSK	1	1	23.27	23.40	23.50	0
				1	26	23.24	23.43	23.37	0
				1	49	23.39	23.58	23.28	0
				25	0	22.23	22.32	22.38	1
				25	13	23.28	23.37	23.40	0
				25	26	22.29	22.47	22.27	1
				50	0	22.29	22.35	22.32	1
			16QAM	1	1	22.35	22.49	22.59	1
			64QAM	1	1	20.64	20.75	20.91	2.5
			256QAM	1	1	18.87	18.07	17.96	4.5
		CP	QPSK	1	1	21.85	21.98	22.01	1.5

NR TDD Band n78 _25 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						647500	650000	652500	
						3712.5 ㎒	3750 ㎒	3787.5 ㎒	
25 ㎒	30	DFT-s	pi/2 BPSK	1	1	23.48	23.57	23.73	0
				1	32	23.13	23.29	23.23	0
				1	63	23.52	23.73	23.51	0
				32	0	22.53	22.62	22.77	0.5
				32	17	23.09	23.21	23.24	0
				32	33	22.62	22.78	22.72	0.5
				64	0	22.57	22.70	22.69	0.5
			QPSK	1	1	23.40	23.46	23.63	0
				1	32	23.18	23.45	23.39	0
				1	63	23.46	23.60	23.41	0
				32	0	22.04	22.14	22.27	1
				32	17	23.13	23.24	23.30	0
				32	33	22.06	22.28	22.16	1
				64	0	22.04	22.19	22.15	1
			16QAM	1	1	22.68	22.68	22.85	1
			64QAM	1	1	20.42	20.56	20.75	2.5
			256QAM	1	1	18.67	17.53	17.75	4.5
		CP	QPSK	1	1	21.77	21.93	22.09	1.5

NR TDD Band n78 _30 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						647666	650000	652332	
						3715 ㎒	3750 ㎒	3784.98 ㎒	
30 ㎒	30	DFT-s	pi/2 BPSK	1	1	23.21	23.30	23.46	0
				1	39	23.24	23.43	23.43	0
				1	76	23.31	23.52	23.22	0
				36	0	22.64	22.74	22.89	0.5
				36	21	23.18	23.35	23.39	0
				36	42	22.71	22.91	22.77	0.5
				75	0	22.66	22.81	22.86	0.5
			QPSK	1	1	23.14	23.25	23.42	0
				1	39	23.16	23.32	23.39	0
				1	76	23.27	23.47	23.18	0
				36	0	22.14	22.26	22.38	1
				36	21	23.19	23.35	23.41	0
				36	42	22.22	22.43	22.28	1
				75	0	22.15	22.28	22.33	1
			16QAM	1	1	22.19	22.32	22.50	1
			64QAM	1	1	20.44	20.55	20.72	2.5
			256QAM	1	1	18.70	18.83	19.01	4.5
		CP	QPSK	1	1	21.83	21.89	22.04	1.5

NR TDD Band n78 _40 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						647800		652000	
						3720 ㎒		3780 ㎒	
40 ㎒	30	DFT-s	pi/2 BPSK	1	1	23.31		23.53	0
				1	53	23.30		23.44	0
				1	104	23.37		23.36	0
				50	0	22.65		22.88	0.5
				50	28	23.23		23.42	0
				50	56	22.72		22.83	0.5
				100	0	22.69		22.86	0.5
			QPSK	1	1	23.18		23.43	0
				1	53	23.27		23.41	0
				1	104	23.28		23.26	0
				50	0	22.13		22.37	1
				50	28	23.26		23.45	0
				50	56	22.22		22.33	1
				100	0	22.17		22.36	1
			16QAM	1	1	22.28		22.52	1
			64QAM	1	1	20.44		20.83	2.5
			256QAM	1	1	18.96		18.98	4.5
		CP	QPSK	1	1	21.80		22.14	1.5

NR TDD Band n78 _50 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						648334		651666	
						3725.01 ㎒		3774.99 ㎒	
50 ㎒	30	DFT-s	pi/2 BPSK	1	1	23.42		23.38	0
				1	67	23.51		23.43	0
				1	131	23.41		23.30	0
				64	0	22.71		22.83	0.5
				64	35	23.27		23.39	0
				64	69	22.79		22.86	0.5
				128	0	22.71		22.83	0.5
			QPSK	1	1	23.18		23.30	0
				1	67	23.20		23.40	0
				1	131	23.34		23.24	0
				64	0	22.18		22.32	1
				64	35	23.31		23.41	0
				64	69	22.27		22.31	1
				128	0	22.20		22.34	1
			16QAM	1	1	22.25		22.39	1
			64QAM	1	1	20.44		20.63	2.5
			256QAM	1	1	18.73		18.88	4.5
		CP	QPSK	1	1	21.86		21.98	1.5

NR TDD Band n78 _60 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							650000		
							3750 ㎒		
60 ㎒	30	DFT-s	pi/2 BPSK	1	1		23.39		0
				1	81		23.36		0
				1	160		23.36		0
				81	0		22.87		0.5
				81	41		22.87		0
				81	81		22.86		0.5
				162	0		22.80		0.5
			QPSK	1	1		23.18		0
				1	81		23.31		0
				1	160		23.38		0
				81	0		22.18		1
				81	41		23.34		0
				81	81		22.36		1
				162	0		22.31		1
			16QAM	1	1		22.25		1
			64QAM	1	1		20.51		2.5
			256QAM	1	1		18.71		4.5
		CP	QPSK	1	1		21.87		1.5

NR TDD Band n78 _70 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							650000		
							3750 ㎒		
70 ㎒	30	DFT-s	pi/2 BPSK	1	1		23.29		0
				1	95		23.35		0
				1	187		23.34		0
				90	0		22.69		0.5
				90	50		23.37		0
				90	99		22.89		0.5
				180	0		22.78		0.5
			QPSK	1	1		23.09		0
				1	95		23.31		0
				1	187		23.32		0
				90	0		22.19		1
				90	50		23.37		0
				90	99		22.38		1
				180	0		22.27		1
			16QAM	1	1		22.11		1
			64QAM	1	1		20.39		2.5
			256QAM	1	1		18.74		4.5
		CP	QPSK	1	1		21.77		1.5

NR TDD Band n78 _80 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							650000		
							3750 ㎒		
80 ㎒	30	DFT-s	pi/2 BPSK	1	1		23.11		0
				1	109		23.40		0
				1	215		23.38		0
				108	0		22.69		0.5
				108	55		23.40		0
				108	109		22.91		0.5
				216	0		22.80		0.5
			QPSK	1	1		23.13		0
				1	109		23.31		0
				1	215		23.32		0
				108	0		22.18		1
				108	55		23.39		0
				108	109		22.39		1
				216	0		22.31		1
			16QAM	1	1		22.22		1
			64QAM	1	1		20.82		2.5
			256QAM	1	1		18.74		4.5
		CP	QPSK	1	1		20.90		1.5

NR TDD Band n78 _90 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							650000		
							3750 ㎒		
90 ㎒	30	DFT-s	pi/2 BPSK	1	1		23.18		0
				1	123		23.40		0
				1	243		23.40		0
				120	0		22.70		0.5
				120	63		23.42		0
				120	125		22.92		0.5
				243	0		22.27		0.5
			QPSK	1	1		23.11		0
				1	123		23.33		0
				1	243		23.31		0
				120	0		22.18		1
				120	63		23.43		0
				120	125		22.41		1
				243	0		22.28		1
			16QAM	1	1		22.21		1
			64QAM	1	1		20.69		2.5
			256QAM	1	1		18.74		4.5
		CP	QPSK	1	1		21.81		1.5

NR TDD Band n78 _100 ㎒ Bandwidth Conducted Power

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							650000		
							3750 ㎒		
100 ㎒	30	DFT-s	pi/2 BPSK	1	1		23.20		0
				1	137		23.39		0
				1	271		23.34		0
				135	0		22.67		0.5
				135	69		23.42		0
				135	138		22.92		0.5
				270	0		22.81		0.5
			QPSK	1	1		23.11		0
				1	137		23.36		0
				1	271		23.26		0
				135	0		22.16		1
				135	69		23.43		0
				135	138		22.40		1
				270	0		22.29		1
			16QAM	1	1		22.05		1
			64QAM	1	1		20.87		2.5
			256QAM	1	1		18.72		4.5
		CP	QPSK	1	1		21.87		1.5

11. System Verification

11.1 Tissue Verification

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

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ε	Target Conductivity σ (S/m)	Target Dielectric Constant, ε	% dev σ	% dev ε
06/26/2025	20.6	750H	705	0.856	43.657	0.889	42.174	-3.73	3.52
			710	0.858	43.632	0.890	42.148	-3.64	3.52
			750	0.872	43.425	0.893	41.940	-2.30	3.54
06/27/2025	21.3	835H	820	0.895	40.368	0.899	41.577	-0.44	-2.91
			835	0.902	40.301	0.900	41.500	0.17	-2.89
			850	0.908	40.236	0.916	41.500	-0.85	-3.05
06/24/2025	21.5	1800H	1710	1.311	40.412	1.348	40.144	-2.77	0.67
			1750	1.331	40.434	1.371	40.080	-2.89	0.88
			1800	1.366	40.382	1.400	40.000	-2.43	0.95
06/25/2025	20.5	1900H	1850	1.373	40.304	1.400	40.000	-1.94	0.76
			1900	1.400	40.172	1.400	40.000	0.00	0.43
			1910	1.405	40.150	1.400	40.000	0.32	0.38
06/30/2025	21.0	2600H	2500	1.920	39.086	1.855	39.140	3.49	-0.14
			2600	2.026	38.879	1.964	39.010	3.18	-0.34
			2690	2.113	38.483	2.062	38.894	2.48	-1.06
07/09/2025	20.9	2600H	2500	1.786	40.370	1.855	39.140	-3.69	3.14
			2600	1.989	40.424	1.964	39.010	1.27	3.63
			2690	2.133	39.019	2.062	38.894	3.45	0.32
07/01/2025	21.7	3400H-3970H	3400	2.764	39.039	2.810	38.040	-1.64	2.63
			3500	2.855	38.872	2.913	37.930	-1.98	2.48
			3550	2.903	38.789	2.964	37.870	-2.06	2.43
			3650	2.994	38.642	3.066	37.760	-2.34	2.34
			3700	3.042	38.554	3.118	37.770	-2.44	2.08
			3750	3.090	38.489	3.169	37.640	-2.50	2.25
			3800	3.138	38.427	3.220	37.590	-2.56	2.23
			3900	3.231	38.283	3.233	37.470	-0.07	2.17
			3970	3.304	38.169	3.394	37.390	-2.64	2.08

11.2 System Verification

Input Power: 50 ㎽

Freq.	Date	Probe	Dipole	Liquid	Amb. Temp.	Liquid Temp.	1 W Target SAR_{1g} (SPEAG)	50mW Measured SAR_{1g}	1 W Normalized SAR_{1g}	Deviation	Limit
[㎒]		(S/N)	(S/N)		[°C]	[°C]	[W/kg]	[W/kg]	[W/kg]	[%]	[%]
750	06/26/2025	7702	1014	Head	20.8	20.6	8.80	0.410	8.20	- 6.82	± 10
835	06/27/2025	7702	4d165	Head	21.4	21.3	9.32	0.482	9.64	+ 3.43	± 10
1800	06/24/2025	7702	2d015	Head	21.6	21.5	38.10	1.88	37.60	- 1.31	± 10
1900	06/25/2025	7702	5d061	Head	20.7	20.5	38.80	1.91	38.20	- 1.55	± 10
2600	06/30/2025	7702	1043	Head	21.1	21.0	56.90	2.99	59.80	+ 5.10	± 10
2600	07/09/2025	3797	1043	Head	21.0	20.9	56.90	2.84	56.80	- 0.18	± 10
3500	07/01/2025	7702	1040	Head	21.8	21.7	65.20	3.41	68.20	+ 4.60	± 10
3700	07/01/2025	7702	1105	Head	21.8	21.7	69.30	3.32	66.40	- 4.18	± 10
3900	07/01/2025	7702	1019	Head	21.8	21.7	70.30	3.52	70.40	+ 0.14	± 10

11.3 SAR Test System Verification Procedure

SAR measurement was prior to assessment; the system is verified to the ± 10 % of the specifications at each frequency Band by using the system verification kit. (Graphic Plots Attached)
- Cabling the system, using the verification kit equipment.
- For all frequency band, Generate about 50 ㎽ Input level from the signal generator to the Dipole Antenna.
- Dipole antenna was placed below the flat phantom.
- The measured one-gram SAR at the surface of the phantom above the dipole feed-point should be within 10 % of the target reference value.

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

12. SAR Test Data Summary

12.1 Body SAR Measurement Results

GSM 850 SAR														
Frequency		Mode	Ant. (dBm)	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
836.6	190	GPRS 4Tx	MIMO1	30.0	28.47	0.13	Rear	1:2.07	45	Free	0.029	1.422	**0.041**	B1
836.6	190	GPRS 4Tx	BUA	30.0	28.47	-0.11	Rear	1:2.07	22	Free	0.244	1.422	**0.347**	B2
ANSI/ IEEE C95.1 – 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram						

GSM1900 SAR														
Frequency		Mode	Ant. (dBm)	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dB)	(dB)			(mm)		(W/kg)		(W/kg)	
1880.0	661	GPRS 4Tx	MIMO1	27.0	25.42	0.00	Rear	1:2.07	45	Free	0.00861	1.439	**0.012**	B3
1880.0	661	GPRS 4Tx	BUA	27.0	25.42	-0.10	Rear	1:2.07	22	Free	0.199	1.439	**0.286**	B4
ANSI/ IEEE C95.1 – 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram						

UMTS Band 5 SAR														
Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dBm)	(dB)			(mm)		(W/kg)		(W/kg)	
836.6	4183	RMC	MIMO1	25.0	23.76	-0.01	Rear	1:1	45	Free	0.039	1.330	**0.052**	B5
836.6	4183	RMC	BUA	25.0	23.76	-0.12	Rear	1:1	22	Free	0.149	1.330	**0.198**	B6
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram						

UMTS Band 4 SAR

Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dBm)	(dB)			(mm)		(W/kg)		(W/kg)	
1732.4	1412	RMC	MIMO1	25.0	23.74	-0.13	Rear	1:1	45	Free	0.047	1.337	**0.063**	B7
1732.4	1412	RMC	BUA	25.0	23.74	0.11	Rear	1:1	22	Free	0.176	1.337	**0.235**	B8
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram						

UMTS Band 2 SAR

Frequency		Mode	Ant.	Tune-Up Limit	Meas. Power	Power Drift	Test Position	Duty Cycle	Distance	Ant. State	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(dBm)	(dBm)	(dB)			(mm)		(W/kg)		(W/kg)	
1 880.0	9400	RMC	MIMO 1	25.0	23.91	0.10	Rear	1:1	45	Free	0.026	1.285	**0.033**	B9
1 880.0	9400	RMC	BUA	25.0	23.91	0.14	Rear	1:1	22	Free	0.309	1.285	**0.397**	B10
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram						

LTE FDD Band 4 (AWS) SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1732.5	20175	QPSK	MIMO 1	20	25.0	24.07	0.00	Rear	0	1	99	1:1	FREE	45	0.041	1.239	**0.051**	B11
1732.5	20175	QPSK	MIMO 1	20	24.0	22.97	0.00	Rear	1	50	49	1:1	FREE	45	0.033	1.268	0.042	
1732.5	20175	QPSK	BUA	20	25.0	24.07	-0.14	Rear	0	1	99	1:1	FREE	22	0.171	1.239	**0.212**	B12
1732.5	20175	QPSK	BUA	20	24.0	22.97	0.16	Rear	1	50	49	1:1	FREE	22	0.139	1.268	0.176	
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram									

LTE FDD Band 7 SAR																		
Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2535.0	21100	QPSK	MIMO1	20	25.0	23.90	0.00	Rear	0	1	49	1:1	FREE	45	0.00654	1.288	0.008	
2535.0	21100	QPSK	MIMO1	20	24.0	23.00	N/A	Rear	1	50	49	1:1	FREE	45	0	1.259	0.000	
2560.0	21350	QPSK	MIMO1	20	25.0	23.80	0.10	Rear	0	1	0	1:1	FREE	45	0.036	1.318	**0.047**	B13
PCC 2560.0	21350	QPSK	MIMO1	20	25.0	23.01	0.14	Rear	0	1	0	1:1	FREE	45	0.017	1.581	0.027	•
SCC 2540.2	21152	QPSK	MIMO1	20					0	1	99							
2535.0	21100	QPSK	BUA	20	25.0	23.90	0.00	Rear	0	1	49	1:1	FREE	22	0.589	1.288	**0.759**	B14
2535.0	21100	QPSK	BUA	20	24.0	23.00	0.18	Rear	1	50	49	1:1	FREE	22	0.462	1.259	0.582	
2560.0	21350	QPSK	BUA	20	25.0	23.80	0.13	Rear	0	1	0	1:1	FREE	22	0.478	1.318	0.630	
PCC 2560.0	21350	QPSK	BUA	20	25.0	23.01	0.07	Rear	0	1	0	1:1	FREE	22	0.386	1.581	0.610	•
SCC 2540.2	21152	QPSK	BUA	20					0	1	99							
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram									

• **Up-link Carrier Aggregation (7C)**

LTE FDD Band 12 SAR																		
Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
707.5	23095	QPSK	MIMO1	10	25.0	23.93	0.14	Rear	0	1	49	1:1	FREE	45	0.028	1.279	**0.036**	B15
707.5	23095	QPSK	MIMO1	10	24.0	22.93	0.14	Rear	1	25	12	1:1	FREE	45	0.017	1.279	0.022	
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram									

LTE FDD Band 25 (PCS) SAR																	
Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
Mhz	Ch.			(Mhz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
1905.0	26590	QPSK	MIMO 1	20	25.0	23.97	-0.07	Rear	0	1	99	1:1	FREE	45	0.00775	1.268	0.010	
1860.0	26140	QPSK	MIMO 1	20	24.0	22.94	0.18	Rear	1	50	0	1:1	FREE	45	0.023	1.276	**0.029**	B16
1905.0	26590	QPSK	BUA	20	25.0	23.97	-0.12	Rear	0	1	99	1:1	FREE	22	0.330	1.349	**0.445**	B17
1860.0	26140	QPSK	BUA	20	24.0	22.94	-0.08	Rear	1	50	0	1:1	FREE	22	0.235	1.276	0.300	
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram									

LTE FDD Band 26 (Cell) SAR																		
Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
831.5	26865	QPSK	MIMO1	15	25.0	23.81	-0.06	Rear	0	1	36	1:1	FREE	45	0.049	1.315	**0.064**	B18
831.5	26865	QPSK	MIMO1	15	24.0	22.83	0.08	Rear	1	36	0	1:1	FREE	45	0.03	1.309	0.039	
831.5	26865	QPSK	BUA	15	25.0	23.81	-0.12	Rear	0	1	36	1:1	FREE	22	0.127	1.315	**0.167**	B19
831.5	26865	QPSK	BUA	15	24.0	22.83	0.16	Rear	1	36	0	1:1	FREE	22	0.115	1.309	0.151	
ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram									

LTE TDD Band 41 SAR																		
Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2593.0	40620	QPSK	MIMO1	20	25.0	23.95	N/A	Rear	0	1	49	1:1.58	FREE	45	0	1.274	**0.000**	B20
2593.0	40620	QPSK	MIMO1	20	24.0	22.93	N/A	Rear	1	50	0	1:1.58	FREE	45	0	1.279	0.000	
2 595	38000	QPSK	BUA	20	25.0	23.95	0.09	Rear	0	1	49	1:1.58	FREE	22	0.282	1.274	**0.359**	B21
2 610	38150	QPSK	BUA	20	24.0	22.93	-0.14	Rear	1	50	0	1:1.58	FREE	22	0.233	1.279	0.298	
ANSI/IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg Averaged over 1 gram									

LTE TDD Band 42 SAR																		
Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
3540.0	42990	QPSK	MIMO1	20	23.0	21.66	0.00	Rear	0	1	99	1:1.58	FREE	45	0.017	1.361	**0.023**	B22
3540.0	42990	QPSK	MIMO1	20	22.0	20.90	0.00	Rear	1	50	49	1:1.58	FREE	45	0.012	1.288	0.015	
3460.0	42190	QPSK	MIMO2	20	24.0	22.98	N/A	Rear	0	1	99	1:1.58	FREE	45	0	1.265	**0.000**	B23
3500.0	42590	QPSK	MIMO2	20	23.0	22.34	N/A	Rear	1	50	0	1:1.58	FREE	45	0	1.164	0.000	
ANSI/IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg Averaged over 1 gram									

NR FDD Band n7 SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 535	507000	DFT-s OFDM QPSK	MIMO1	50	25.0	24.63	0.00	Rear	0	1	268	1:1	FREE	45	0.00802	1.089	0.009	
2 535	507000	DFT-s OFDM QPSK	MIMO1	50	25.0	24.39	0.00	Rear	0	135	67	1:1	FREE	45	0.00977	1.151	**0.011**	B24
2 535	507000	DFT-s OFDM QPSK	BUA	50	25.0	24.63	-0.18	Rear	0	1	268	1:1	FREE	22	0.507	1.089	0.552	
2 535	507000	DFT-s OFDM QPSK	BUA	50	25.0	24.39	-0.05	Rear	0	135	67	1:1	FREE	22	0.594	1.151	**0.684**	B25

ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Body 1.6 W/kg Averaged over 1 gram

NR TDD Band n41 SAR

Frequency		Mode	Ant	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
2 592.99	518598	DFT-s OFDM QPSK	MIMO1	100	25.0	24.65	0.00	Rear	0	1	271	1:1	FREE	45	0.00531	1.084	**0.006**	B26
2 592.99	518598	DFT-s OFDM QPSK	MIMO1	100	25.0	24.60	0.00	Rear	0	135	69	1:1	FREE	45	0.00726	1.096	0.008	
2 592.99	518598	DFT-s OFDM QPSK	BUA	100	25.0	24.65	-0.18	Rear	0	1	271	1:1	FREE	22	0.291	1.084	0.315	
2 592.99	518598	DFT-s OFDM QPSK	BUA	100	25.0	24.60	0.02	Rear	0	135	69	1:1	FREE	22	0.470	1.096	**0.515**	B27

ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Body 1.6 W/kg Averaged over 1 gram

NR TDD Band n77 DoD SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
3 500	633334	DFT-s OFDM QPSK	MIMO1	100	23.0	22.04	0.00	Rear	0	1	137	1:1	FREE	45	0.041	1.247	**0.051**	B28
3 500	633334	DFT-s OFDM QPSK	MIMO1	100	23.0	21.97	0.00	Rear	0	135	69	1:1	FREE	45	0.036	1.268	0.046	
3 500	633334	DFT-s OFDM QPSK	MIMO2	100	24.0	23.47	0.00	Rear	0	1	137	1:1	FREE	45	0.022	1.130	**0.025**	B29
3 500	633334	DFT-s OFDM QPSK	MIMO2	100	24.0	23.47	N/A	Rear	0	135	69	1:1	FREE	45	0	1.130	0.000	

ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Body 1.6 W/kg Averaged over 1 gram

NR TDD Band n77 SAR

Frequency		Mode	Ant.	Band width	Tune-Up Limit	Meas. Power	Power Drift	Test Position	MPR	RB Size	RB Offset	Duty Cycle	Ant. State	Distance	Meas. SAR	Scaling Factor	Scaled SAR	Plot No.
MHz	Ch.			(MHz)	(dBm)	(dBm)	(dB)		(dB)					(mm)	(W/kg)		(W/kg)	
3 750	650000	DFT-s OFDM QPSK	MIMO1	100	23.0	22.01	0.00	Rear	0	1	137	1:1	FREE	45	0.015	1.256	**0.019**	B30
3 750	650000	DFT-s OFDM QPSK	MIMO1	100	23.0	22.02	N/A	Rear	0	135	69	1:1	FREE	45	0	1.253	0.000	
3 750	650000	DFT-s OFDM QPSK	MIMO2	100	24.0	23.53	N/A	Rear	0	1	137	1:1	FREE	45	0	1.114	**0.000**	B31
3 750	650000	DFT-s OFDM QPSK	MIMO2	100	24.0	23.53	N/A	Rear	0	135	69	1:1	FREE	45	0	1.114	0.000	

ANSI/ IEEE C95.1 - 2005– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Body 1.6 W/kg Averaged over 1 gram

12.2 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Procedure.
2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D01v06.
6. This device utilizes power reduction for some wireless mode and technologies, as outlined in sec. 4 The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous scenarios.

GSM/GPRS Test Notes:

1. This EUT'S GPRS device class is B.
2. Justification for reduced test configurations per KDB 941225 D01v03r01: The source-based time-averaged output power was evaluated for all multi-slot operations. The multi-slot configuration with the highest frame averaged output power including tolerance was evaluated for SAR.
3. Per FCC KDB 447498 D04v01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is 1/2 dB, instead of the middle channel, the highest output power channel must be used.

UMTS Notes:

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

LTE Notes:

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Consideration for LTE Devices in FCC KDB 941225 D05v02r05.
2. According to FCC KDB 941225 D05v02r05:
   When the reported SAR is 0.8 W/kg, testing of the 100% RB allocation and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the 1RB, 50%RB and 100%RB allocation with highest output power for that channel.
   Only one channel, and as reported SAR values for 1RB allocation and 50%RB allocation were less than 1.45W/Kg only the highest power RB offset for each allocation was required.
3. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to target MPR is indicated alongside the SAR results.
4. When Power reduction is applied, MPR is 0 for some modes.
5. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator.
6. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) LTE TDD Band 41 SAR measured at the highest output power channel for each test configuration is 0.6 W/kg then testing at the other channels is not required for such test configurations.
7. TDD LTE (Power Class 3) was tested using UL-DL configuration 0 with 6 UL sub frames and 2S sub frames using extended cyclic prefix only and special sub frame configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Sec. 4, the duty factor using extended cyclic prefix is 0.633(cf=1.58).
8. SAR test reduction is applied using the following criteria:
   Start with the largest channel Bandwidth and measure SAR for QPSK with 1 RB, and 50 % RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is >0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50 % RB configuration for that channel. Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are >0.8 W/kg, testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation <1.45 W/kg. Testing for 16-QAM modulation is not required because the reported SAR for QPSK is <1.45 W/kg and its output power is not more than 0.5 dB higher than that a QPSK. Testing for the other channel Bandwidths is not required because the reported SAR for the highest channel Bandwidth is <1.45 W/kg and its output power is not more than 0.5 dB higher than that of the highest channel Bandwidth.

9. This device supports LTE Carrier Aggregation (CA) in Uplink for LTE Band 7C with two component carriers in the uplink. SAR measurements and conducted powers were evaluated per Fall 2017 TCBC Workshop notes (LTE Carrier aggregation).
   For LTE Band per 2018 TCBC Workshop notes, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active.
   Because the maximum output for UL CA of LTE Band 7C is ≤ standalone LTE mode (without CA), SAR for LTE Band 7C Up link CA was performed at the highest standalone SAR configuration without CA and also UL CA SAR is not required for all required test channels, Because the reported SAR for UL CA configuration is < 1.4 W/kg.
   The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.

NR Notes:

1. This device supports SA and NSA mode for NR implementation. In EN-DC Mode, NR operate with the LTE Bands shown in the NR FR1 checklist acting as anchor Bands.
2. Due to Limitations of the NR TDD SAR measurement equipment, SAR testing for NR TDD Bands was performed separately using test mode (FTM) software.
3. More detailed specifications of the NR Bands are contained in the technical description document.
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. For NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power was evaluated for SAR tests.

13. Simultaneous SAR Analysis

This device contains transmitters that may operate simultaneously (ENDC(4G+5G) operations). Therefore, simultaneous transmission analysis is required. Per KDB Publication 447498 D01v06 Sec.4.3.2 and IEEE 1528-2013 Sec.6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of 1g SAR and 10g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤1.6W/kg for 1g SAR and ≤4 W/kg for 10g SAR. The different test positions in an exposure condition may be considered collectively to determine SAR exclusion according to the sum of 1g or 10g SAR.

Simultaneous Transmission Scenario					
Band		Position	LTE SAR (W/kg)	NR SAR (W/kg)	Σ 1-g SAR (W/kg)
MIMO1	MIMO1		1	2	1+2
LTE Band 7	NR Band 77(78)	Rear	0.047	0.051	0.098
LTE Band 26(5)			0.064		**0.115**
LTE Band 41(38)			0.000		0.051

Simultaneous Transmission Scenario					
Band		Position	LTE SAR (W/kg)	NR SAR (W/kg)	Σ 1-g SAR (W/kg)
MIMO1	MIMO2		1	2	1+2
LTE Band 7	NR Band 77(78)	Rear	0.047	0.025	0.072
LTE Band 26(5)			0.064		0.089
LTE Band 41(38)			0.000		0.025

14. Measurement Uncertainty

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

15. SAR Test Equipment

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	ELI Phantom	-	N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli	CS8Cspeag-TX60L	F10/5D1CA1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX60L	F10/5FN3A1/C/01	N/A	N/A	N/A
Staubli	TX60 Xlspeag	F10/5D1CA1/A/01	N/A	N/A	N/A
Staubli	TX-60 L spe	F10/5FN3A1/A/01	N/A	N/A	N/A
N/A	Teach Pendant (Joystick)	D21142106	N/A	N/A	N/A
N/A	Teach Pendant (Joystick)	D21142602	N/A	N/A	N/A
TESTO	175-H1/Thermometer	44606559906	03/20/2025	Annual	03/20/2026
TESTO	608-H1/Thermometer	2183499992	12/05/2024	Annual	12/05/2025
SPEAG	DAE4	1720	04/23/2025	Annual	04/23/2026
SPEAG	DAE4	1417	02/18/2025	Annual	02/18/2026
SPEAG	E-Field Probe EX3DV4	7702	01/21/2025	Annual	01/21/2026
SPEAG	E-Field Probe EX3DV4	3797	01/21/2025	Annual	01/21/2026
SPEAG	Dipole D750V3	1014	05/20/2025	Annual	05/20/2026
SPEAG	Dipole D835V2	4d165	04/14/2025	Annual	04/14/2026
SPEAG	Dipole D1800V2	2d015	04/17/2025	Annual	04/17/2026
SPEAG	Dipole D1900V2	5d061	01/20/2025	Annual	01/20/2026
SPEAG	Dipole D2600V2	1043	05/22/2025	Annual	05/22/2026
SPEAG	Dipole D3500V2	1040	01/16/2025	Annual	01/16/2026
SPEAG	Dipole D3700V2	1105	09/18/2024	Annual	09/18/2025
SPEAG	Dipole D3900V2	1019	05/21/2025	Annual	05/21/2026
Agilent	Power Meter E4419B	MY41291386	09/11/2024	Annual	09/11/2025
Agilent	Power Meter E4419B	MY40330223	09/11/2024	Annual	09/11/2025
Agilent	Power Sensor 8481A	SG1091286	09/12/2024	Annual	09/12/2025
HP	Power Sensor 8481A	MY41090675	09/12/2024	Annual	09/12/2025
Agilent	Power Sensor 8481A	MY41090873	01/13/2025	Annual	01/13/2026
SPEAG	DAKS 3.5	1038	01/20/2025	Annual	01/20/2026
SPEAG	Vector Reflectometer	0141013	01/13/2025	Annual	01/13/2026
KEYSIGHT	Signal Analyzer	US51350329	04/21/2025	Annual	04/21/2026
H.P	Network Analyzer /8753ES	JP39240221	12/23/2024	Annual	12/23/2025
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	07/29/2024	Annual	07/29/2025
R&S	Wireless Communication Test Set CMW500	115733	03/20/2025	Annual	03/20/2026
Agilent	SIGNAL GENERATOR N5182A	MY47070230	03/18/2025	Annual	03/18/2026
EMPOWER	RF Power Amplifier	1084	05/20/2025	Annual	05/20/2026
EMPOWER	RF Power Amplifier	1041D/C0508	05/20/2025	Annual	05/20/2026
MICRO LAB	LP Filter / LA-15N	10453	09/11/2024	Annual	09/11/2025
MICRO LAB	LP Filter / LA-30N	-	09/11/2024	Annual	09/11/2025
MICRO LAB	LP Filter / LA-60N	32011	09/11/2024	Annual	09/11/2025
Agilent	Attenuator (3dB) 8693B	MY39260298	08/20/2024	Annual	08/20/2025
HP	Attenuator (20dB) 8493C	09271	08/20/2024	Annual	08/20/2025
Agilent	Directional Bridge 86205A	3140A04581	04/18/2025	Annual	04/18/2026
HP	Dual Directional Coupler	16072	09/11/2024	Annual	09/11/2025
Anritsu	Radio Communication Test Station MT8000A	6262036812	11/27/2024	Annual	11/27/2025

Note: All measurements were performed within the valid calibration period of the specific equipment.

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

16. Conclusion

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

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

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

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Appendix A. DUT SETUP PHOTO

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

Report No.
HCT-SR-2507-FC013-P