ACCREDITED
Certificate # 3939.01

FCC RF TEST REPORT

Applicant:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA

Manufacturer or Supplier:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Product:	FE5NA0020
Brand Name:	Continental
Model Name:	FE5NA0020
FCC ID:	LHJ-FE5NA0020
Date of tests:	Oct. 16, 2021 ~ Dec. 03, 2021

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 27, Subpart C, M** ☒ **ANSI/TIA/EIA-603-D**
☒ **FCC Part 2** ☒ **ANSI/TIA/EIA-603-E** ☒ **ANSI C63.26-2015**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
Simon Date: Dec. 04, 2021	Luke Lu Date: Dec. 04, 2021

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P20210616-3RF06	Original release	Dec. 04, 2021

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 27 & PART 2		
STANDARD SECTION	**TEST TYPE AND LIMIT**	**RESULT**
§2.1046	Conducted Output Power	Compliance
§27.50(c)(10)	Equivalent Radiated Power (5G NR n71)	Compliance
§27.50(d)(4) §27.50(h)(2) §27.50(j)(3)	Equivalent Isotropically Radiated Power (5G NR n41,n66,n77)	Compliance
§2.1055 §27.54	Frequency Stability	Compliance
§2.1049	Occupied Bandwidth	Compliance
§2.1051 §27.53(g) §27.53(h) §27.53(I)(2) §27.53(m)(4)(6)	Band Edge Measurements	Compliance
§2.1051 §27.53(g) §27.53(h) §27.53(I)(2) §27.53(m)(4)(6)	Conducted Spurious Emissions	Compliance
§2.1053 §27.53(g) §27.53(h) §27.53(I)(2) §27.53(m)(4)(6)	Radiated Spurious Emissions	Compliance
§27.50(j)(4)	Peak-to-Average Ratio	Compliance

1.1 MEASREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Frequency Stability	±76.97Hz
Radiated emissions & Radiated Power (30MHz~1GMHz)	±4.98dB
Radiated emissions & Radiated Power (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Band Edge Measurements	±4.70dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 22,21	Apr. 21,22
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 03,21	Jun. 02,22
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-051	Feb. 14.20	Feb. 13.23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,21	Mar. 04,22
Horn Antenna	ETS-LINDGREN	3117	00168692	Apr. 02,21	Apr. 01,22
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 25, 21	Aug. 24, 22
Radio Communication Analyzer	Anritsu(China) Co., Ltd	MT8000A	6262093255	Feb. 25,21	Feb. 24,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,21	Jun. 01,22
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 03,21	Jun. 02,22
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Apr. 22,21	Apr. 21,22
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 03,21	Jun. 02,22
Power Meter	Anritsu	ML2495A	1506002	Apr. 07,21	Apr. 06,22
Power Sensor	Anritsu	MA2411B	1339352	May. 07,21	May. 06,22
Temperature Chamber	ESPEC	SH-242	93000855	Jun. 02,21	Jun. 01,22

MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Mar. 05,21	Mar. 04,22
Power Divider	MCLI/USA	PS2-15	24880	N/A	N/A

NOTE: 1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.

3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.

4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	FE5NA0020	
BRAND NAME	Continental	
MODEL NAME	FE5NA0020	
NOMINAL VOLTAGE	EUT 4.0V	
MODULATION TECHNOLOGY	**5G NR**	DFT-s-OFMA(π/2 BPSK,QPSK,16QAM,64QAM,256QAM); CP-OFMA(QPSK,16QAM,64QAM,256QAM);
SUPPORT ENDC COMBINE	**NR Band n41**	5A_n41A
		26A_n41A
	NR Band n66	5A_n66A
		12A_n66A
		13A_n66A
		14A_n66A
	NR Band n71	2A_n71A
		7A_n71A
		66A_n71A
	NR Band n77C	41A_n77C
FREQUENCY RANGE	**NR Band n41/n41 HPUE**	2506.02MHz ~ 2679.99MHz
	NR Band n66	1712.5MHz ~ 1777.5MHz
	NR Band n71	665.5MHz ~ 695.5MHz
	NR Band n77C/n77C-HPUE	3710MHz ~ 3970MHz
	NR Band n41-HPUE Channel Bandwidth: 20MHz	PI2BPSK: 17M9G7D
		QPSK: 17M8G7D
		16QAM: 17M9W7D
		64QAM: 17M9W7D
		256QAM: 17M8W7D
	NR Band n41-HPUE Channel Bandwidth: 30MHz	PI2BPSK: 26M8G7D
		QPSK: 26M8G7D
		16QAM: 26M8W7D
		64QAM: 26M8W7D

EMISSION DESIGNATOR		256QAM: 26M8W7D
	NR Band n41-HPUE Channel Bandwidth: 40MHz	2BPSK: 35M7G7D
		QPSK: 35M7G7D
		16QAM: 35M7W7D
		64QAM: 35M8W7D
		256QAM: 35M8W7D
	NR Band n41-HPUE Channel Bandwidth 50MHz	2BPSK: 45M7G7D
		QPSK: 45M7G7D
		16QAM: 45M7W7D
		64QAM: 45M7W7D
		256QAM: 45M7W7D
	NR Band n41-HPUE Channel Bandwidth 60MHz	2BPSK: 57M7G7D
		QPSK: 57M9G7D
		16QAM: 57M9W7D
		64QAM: 58M1W7D
		256QAM: 57M7W7D
	NR Band n41-HPUE Channel Bandwidth 80MHz	2BPSK: 77M3G7D
		QPSK: 77M0G7D
		16QAM: 77M3W7D
		64QAM: 77M0W7D
		256QAM: 77M0W7D
	NR Band n41-HPUE Channel Bandwidth 90MHz	2BPSK: 85M8G7D
		QPSK: 85M6G7D
		16QAM: 85M6W7D
		64QAM: 85M4W7D
		256QAM: 85M4W7D
	NR Band n41-HPUE Channel Bandwidth 100MHz	2BPSK: 96M4G7D
		QPSK: 96M4G7D
		16QAM: 96M4W7D
		64QAM: 96M1W7D
		256QAM: 96M2W7D
EMISSION DESIGNATOR	NR Band n66 Channel Bandwidth: 5MHz	2BPSK: 4M47G7D
		QPSK: 4M48G7D
		16QAM: 4M46W7D
		64QAM: 4M47W7D
		256QAM: 4M47W7D
	NR Band n66 Channel Bandwidth: 10MHz	2BPSK: 8M91G7D
		QPSK: 8M93G7D
		16QAM: 8M95W7D
		64QAM: 8M92W7D
		256QAM: 8M91W7D
	NR Band n66 Channel Bandwidth:	2BPSK: 13M4G7D
		QPSK: 13M4G7D

EMISSION DESIGNATOR	15MHz	16QAM: 13M4W7D
		64QAM: 13M4W7D
		256QAM: 13M4W7D
	NR Band n66 Channel Bandwidth: 20MHz	2BPSK: 17M9G7D
		QPSK: 17M9G7D
		16QAM: 17M9W7D
		64QAM: 17M9W7D
		256QAM: 18M9W7D
	NR Band n66 Channel Bandwidth: 30MHz	2BPSK: 28M5G7D
		QPSK: 28M5G7D
		16QAM: 28M6W7D
		64QAM: 28M5W7D
		256QAM: 28M5W7D
	NR Band n66 Channel Bandwidth: 40MHz	2BPSK: 38M5G7D
		QPSK: 38M4G7D
		16QAM: 38M6W7D
		64QAM: 38M5W7D
		256QAM: 38M4W7D
	NR Band n71 Channel Bandwidth: 5MHz	2BPSK: 4M48G7D
		QPSK: 4M48G7D
		16QAM: 4M47W7D
		64QAM: 4M48W7D
		256QAM: 4M48W7D
	NR Band n71 Channel Bandwidth: 10MHz	2BPSK: 8M91G7D
		QPSK: 8M93G7D
		16QAM: 8M93W7D
		64QAM: 8M93W7D
		256QAM: 8M91W7D
	NR Band n71 Channel Bandwidth: 15MHz	2BPSK: 13M4G7D
		QPSK: 13M4G7D
		16QAM: 13M4W7D
		64QAM: 13M4W7D
		256QAM: 13M4W7D
	NR Band n71 Channel Bandwidth: 20MHz	2BPSK: 17M9G7D
		QPSK: 17M8G7D
		16QAM: 17M8W7D
		64QAM: 17M9W7D
		256QAM: 17M8W7D
	NR Band 77C-HPUE Channel Bandwidth: 20MHz	2BPSK: 17M9G7D
		QPSK: 17M9G7D
		16QAM: 17M9W7D
		64QAM: 17M9W7D
		256QAM: 17M8W7D

EMISSION DESIGNATOR	NR Band 77C-HPUE Channel Bandwidth: 30MHz	2BPSK: 26M8G7D
		QPSK: 26M9G7D
		16QAM: 26M8W7D
		64QAM: 26M8W7D
		256QAM: 26M9W7D
	NR Band 77C-HPUE Channel Bandwidth: 40MHz	2BPSK: 35M7G7D
		QPSK: 35M7G7D
		16QAM: 35M8W7D
		64QAM: 35M7W7D
		256QAM: 37M8W7D
	NR Band 77C-HPUE Channel Bandwidth: 50MHz	2BPSK: 45M7G7D
		QPSK: 45M7G7D
		16QAM: 45M7W7D
		64QAM: 45M7W7D
		256QAM: 45M8W7D
	NR Band 77C-HPUE Channel Bandwidth: 60MHz	2BPSK: 57M7G7D
		QPSK: 57M7G7D
		16QAM: 57M9W7D
		64QAM: 57M9W7D
		256QAM: 57M8W7D
	NR Band 77C-HPUE Channel Bandwidth: 70MHz	2BPSK: 57M8G7D
		QPSK: 57M8G7D
		16QAM: 57M9W7D
		64QAM: 57M9W7D
		256QAM: 57M8W7D
	NR Band 77C-HPUE Channel Bandwidth: 80MHz	2BPSK: 77M4G7D
		QPSK: 77M1G7D
		16QAM: 77M4W7D
		64QAM: 77M4W7D
		256QAM: 77M4W7D
	NR Band 77C-HPUE Channel Bandwidth: 90MHz	2BPSK: 85M5G7D
		QPSK: 85M7G7D
		16QAM: 87M4W7D
		64QAM: 87M4W7D
		256QAM: 85M6W7D
	NR Band 77C-HPUE Channel Bandwidth: 100MHz	2BPSK: 97M4G7D
		QPSK: 96M2G7D
		16QAM: 97M5W7D
		64QAM: 97M5W7D
		256QAM: 96M4W7D

MAX. EIRP POWER	NR Band n41 Channel Bandwidth: 20MHz	352.37mW
	NR Band n41 Channel Bandwidth: 30MHz	349.14mW
	NR Band n41 Channel Bandwidth: 40MHz	349.95mW
	NR Band n41 Channel Bandwidth: 50MHz	352.37mW
	NR Band n41 Channel Bandwidth: 60MHz	349.14mW
	NR Band n41 Channel Bandwidth: 80MHz	349.14mW
	NR Band n41 Channel Bandwidth: 90MHz	353.18mW
	NR Band n41 Channel Bandwidth: 100MHz	354.00mW
MAX. EIRP POWER	NR Band n41-HPUE Channel Bandwidth: 20MHz	639.73mW
	NR Band n41-HPUE Channel Bandwidth: 30MHz	644.17mW
	NR Band n41-HPUE Channel Bandwidth: 40MHz	647.14mW
	NR Band n41-HPUE Channel Bandwidth: 50MHz	648.63mW
	NR Band n41-HPUE Channel Bandwidth: 60MHz	644.17mW

MAX. EIRP POWER	NR Band n41-HPUE Channel Bandwidth: 80MHz	648.63mW
	NR Band n41-HPUE Channel Bandwidth: 90MHz	645.65mW
	NR Band n41-HPUE Channel Bandwidth: 100MHz	699.84mW
	NR Band n66 Channel Bandwidth: 5MHz	454.99mW
	NR Band n66 Channel Bandwidth: 10MHz	457.09mW
	NR Band n66 Channel Bandwidth: 15MHz	453.94mW
	NR Band n66 Channel Bandwidth: 20MHz	457.09mW
	NR Band n66 Channel Bandwidth: 30MHz	452.90mW
	NR Band n66 Channel Bandwidth: 40MHz	459.20mW
	NR Band n71 Channel Bandwidth: 5MHz	158.12mW
	NR Band n71 Channel Bandwidth: 10MHz	158.49mW
	NR Band n71 Channel Bandwidth: 15MHz	158.12mW
	NR Band n71 Channel Bandwidth: 20MHz	157.40mW
	NR Band 77C Channel Bandwidth: 20MHz	346.74mW

MAX. EIRP POWER	NR Band 77C Channel Bandwidth: 30MHz	349.95mW
	NR Band 77C Channel Bandwidth: 40MHz	350.75mW
	NR Band 77C Channel Bandwidth: 50MHz	347.54mW
	NR Band 77C Channel Bandwidth: 60MHz	349.95mW
	NR Band 77C Channel Bandwidth: 70MHz	347.54mW
	NR Band 77C Channel Bandwidth: 80MHz	347.54mW
	NR Band 77C Channel Bandwidth: 90MHz	346.74mW
	NR Band 77C Channel Bandwidth: 100MHz	352.37mW
	NR Band 77C-HPUE Channel Bandwidth: 20MHz	669.88mW
	NR Band 77C-HPUE Channel Bandwidth: 30MHz	676.08mW
	NR Band 77C-HPUE Channel Bandwidth: 40MHz	677.64mW
	NR Band 77C-HPUE Channel Bandwidth: 50MHz	671.43mW
	NR Band 77C-HPUE Channel Bandwidth: 60MHz	676.08mW
	NR Band 77C-HPUE Channel Bandwidth: 70MHz	671.43mW
	NR Band 77C-HPUE Channel Bandwidth: 80MHz	671.43mW
	NR Band 77C-HPUE Channel Bandwidth: 90MHz	669.88mW

	NR Band 77C-HPUE Channel Bandwidth: 100MHz	680.77mW
ANTENNA TYPE	Monopole Antenna with 1.69 dBi gain for NR Band n41/n41C-HPUE Monopole Antenna with 3.09 dBi gain for NR Band n66 Monopole Antenna with 0.14 dBi gain for NR Band n71 Monopole Antenna with 1.5 dBi gain for NR Band n77C/n77C-HPUE	
HW VERSION	P4.1	
SW VERSION	MODEMSA515M_01.15.62	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
EXTREME TEMPERATURE	-40-85 ℃	
EXTREME VOLTAGE	EUT 3.8V - EUT 4.2V	

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

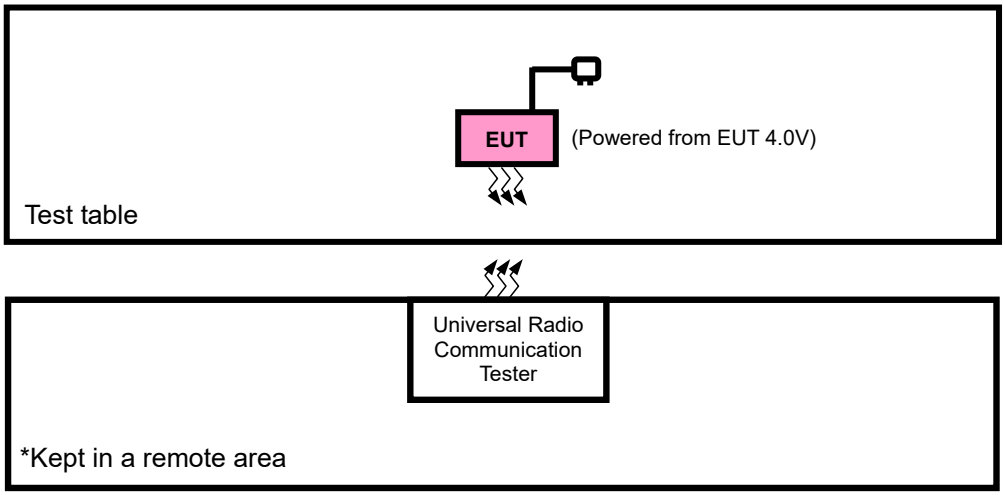
2. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
5G NR	1TX/4RX

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Max ERP/EIRP is according to Max conducted power calculate for SA.
5. The N41-HPUE&N77C-HPUE induced N41&N77C .

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.8m

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports The worst case was found when positioned on Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + DC source + 5G NR link

5G NR n41 MODE(SA n41, DC_5A_n41A , DC_26A_n41A)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		502200 to 534996	502200 to 534996	Low, Middle, High	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		504200 to 532998	504200 to 532998	Low, Middle, High	50MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		507204 to 529998	507204 to 529998	Low, Middle, High	80MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset

		508200 to 528996	508200 to 528996	Low, Middle, High	90MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in Pi/2BPSK modulation.

2. The EIRP data presented in the report from worst SA n41.

5G NR n41-HPUE MODE(SA n41-HPUE)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		502200 to 534996	502200 to 534996	Low, Middle, High	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		504200 to 532998	504200 to 532998	Low, Middle, High	50MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		507204 to 529998	507204 to 529998	Low, Middle, High	80MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		508200 to 528996	508200 to 528996	Low, Middle, High	90MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	Frequency stability	509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	OCCUPIED BANDWIDTH	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		502200 to 534996	502200 to 534996	Low, Middle, High	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		504200 to 532998	504200 to 532998	Low, Middle, High	50MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		507204 to 529998	507204 to 529998	Low, Middle, High	80MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full

		508200 to 528996	508200 to 528996	Low, Middle, High	90MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	501204 to 535998	501204 to 535998	Low	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 50RB Offset
							Outer_ Full
		502200 to 534996	502200 to 534996	Low	30MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	30MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 77RB Offset
							Outer_ Full
		503202 to 534000	503202 to 534000	Low	40MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	40MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 105RB Offset
							Outer_ Full
		504200 to 532998	504200 to 532998	Low	50MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	50MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 132RB Offset
							Outer_ Full
		505200 to 531996	505200 to 531996	Low	60MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	60MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 161RB Offset
							Outer_ Full
		507204 to 529998	507204 to 529998	Low	80MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	80MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 216RB Offset
							Outer_ Full
		508200 to 528996	508200 to 528996	Low	90MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	90MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 244RB Offset
							Outer_ Full
		509202 to 528000	509202 to 528000	Low	100MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	100MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 272RB Offset
							Outer_ Full
A	CONDUCTED EMISSION	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset

		502200 to 534996	502200 to 534996	Low, Middle, High	30MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		504200 to 532998	504200 to 532998	Low, Middle, High	50MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		507204 to 529998	507204 to 529998	Low, Middle, High	80MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		508200 to 528996	508200 to 528996	Low, Middle, High	90MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		502200 to 534996	502200 to 534996	Low, Middle, High	30MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		504200 to 532998	504200 to 532998	Low, Middle, High	50MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		507204 to 529998	507204 to 529998	Low, Middle, High	80MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		508200 to 528996	508200 to 528996	Low, Middle, High	90MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in Pi/2BPSK modulation.

2. The test data Included SA_n41C&DC_5A_n41A&DC_26A_n41A in SA_n41-HPUE

5G NR n66 MODE(SA_n66, DC_5An66A, DC_12A_n66A, DC_13A_n66A, DC_14A_n66A)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Low, Middle, High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset

		343500 to 354500	343500 to 354500	Low, Middle, High	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		344000 to 354000	344000 to 354000	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		345000 to 353000	345000 to 353000	Low, Middle, High	30MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		346000 to 352000	346000 to 352000	Low, Middle, High	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	Frequency stability	346000 to 352000	346000 to 352000	Low, Middle, High	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	OCCUPIED BANDWIDTH	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		343000 to 355000	343000 to 355000	Low, Middle, High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		343500 to 354500	343500 to 354500	Low, Middle, High	15MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		344000 to 354000	344000 to 354000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		345000 to 353000	345000 to 353000	Low, Middle, High	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		346000 to 352000	346000 to 352000	Low, Middle, High	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	502008 to 535998	502008 to 535998	Low	5MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	5MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 24RB Offset
							Outer_ Full
		503004 to 534996	503004 to 534996	Low	10MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	10MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 51RB Offset
							Outer_ Full
		504006 to 534000	504006 to 534000	Low	15MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	15MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 78RB Offset
							Outer_ Full
		505008 to 532998	505008 to 532998	Low	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 105RB Offset
							Outer_ Full
		506004 to 531996	506004 to 531996	Low	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 159RB Offset
							Outer_ Full

		508002 to 529998	508002 to 529998	Low	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 215RB Offset
							Outer_ Full
							Outer_ Full
A	CONDUCTED EMISSION	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Low, Middle, High	10MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		343500 to 354500	343500 to 354500	Low, Middle, High	15MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		344000 to 354000	344000 to 354000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		345000 to 353000	345000 to 353000	Low, Middle, High	30MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		346000 to 352000	346000 to 352000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Low, Middle, High	10MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		343500 to 354500	343500 to 354500	Low, Middle, High	15MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		344000 to 354000	344000 to 354000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		345000 to 353000	345000 to 353000	Low, Middle, High	30MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		346000 to 352000	346000 to 352000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in Pi/2BPSK modulation.

2. The test data presented in the report from worst SA_n66A.

5G NR n71 MODE(SA_n71,DC_2A_n71A,DC7A_n71A,DC_66A_n71A)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		133600 to 138600	133600 to 138600	Low, Middle, High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		134100 to 138100	134100 to 138100	Low, Middle, High	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	Frequency stability	134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	OCCUPIED BANDWIDTH	133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		133600 to 138600	133600 to 138600	Low, Middle, High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		134100 to 138100	134100 to 138100	Low, Middle, High	15MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	133100 to 139100	133100 to 139100	Low	5MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							1RB/ 24RB Offset
							Outer_ Full
				High	5MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							1RB/ 24RB Offset
							Outer_ Full
		133600 to 138600	133600 to 138600	Low	10MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							1RB/ 51RB Offset
							Outer_ Full
				High	10MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							1RB/ 51RB Offset
							Outer_ Full
		134100 to 138100	134100 to 138100	Low	15MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							1RB/ 78RB Offset
							Outer_ Full
				High	15MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							1RB/ 78RB Offset

							Outer_ Full
		134600 to 137600	134600 to 137600	Low	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							1RB/ 105RB Offset
							Outer_ Full
				High	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							1RB/ 105RB Offset
							Outer_ Full
A	CONDUCTED EMISSION	133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		133600 to 138600	133600 to 138600	Low, Middle, High	10MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		134100 to 138100	134100 to 138100	Low, Middle, High	15MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		133600 to 138600	133600 to 138600	Low, Middle, High	10MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		134100 to 138100	134100 to 138100	Low, Middle, High	15MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in Pi/2BPSK modulation.

2. The test data presented in the report from worst SA_n71

5G NR n77C MODE(SA_n77C,DC_41A_n77C)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		647668 to 664332	647668 to 664332	Low, Middle, High	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Low, Middle, High	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		648334 to 663666	648334 to 663666	Low, Middle, High	50MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset

		649000 to 663000	649000 to 663000	Low, Middle, High	70MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		649334 to 662666	649334 to 662666	Low, Middle, High	80MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		649668 to 662332	649668 to 662332	Low, Middle, High	90MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in Pi/2BPSK modulation.

2. The EIRP data presented in the report from worst SA_n77C

5G NR n77C-HPUE MODE(SA_n77C-HPUE,)

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	EIRP	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		647668 to 664332	647668 to 664332	Low, Middle, High	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Low, Middle, High	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		648334 to 663666	648334 to 663666	Low, Middle, High	50MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		649000 to 663000	649000 to 663000	Low, Middle, High	70MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		649334 to 662666	649334 to 662666	Low, Middle, High	80MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		649668 to 662332	649668 to 662332	Low, Middle, High	90MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	Frequency stability	650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	OCCUPIED BANDWIDTH	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		647668 to 664332	647668 to 664332	Low, Middle, High	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		648000 to 664000	648000 to 664000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full

		648334 to 663666	648334 to 663666	Low, Middle, High	50MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		649000 to 663000	649000 to 663000	Low, Middle, High	70MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		649334 to 662666	649334 to 662666	Low, Middle, High	80MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		649668 to 662332	649668 to 662332	Low, Middle, High	90MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	647334 to 664666	647334 to 664666	Low	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 50RB Offset
							Outer_ Full
		647668 to 664332	647668 to 664332	Low	30MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	30MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 77RB Offset
							Outer_ Full
		648000 to 664000	648000 to 664000	Low	40MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	40MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 105RB Offset
							Outer_ Full
		648334 to 663666	648334 to 663666	Low	50MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	50MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 132RB Offset
							Outer_ Full
		648668 to 663332	648668 to 663332	Low	60MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	60MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 161RB Offset
							Outer_ Full
		649000 to 663000	649000 to 663000	Low	70MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 161RB Offset
							Outer_ Full
				High	70MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 188RB Offset
							Outer_ Full
		649334 to 662666	649334 to 662666	Low	80MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	80MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 216RB Offset
							Outer_ Full
		649668 to 662332	649668 to 662332	Low	90MHz	Pi/2BPSK, QPSK, 16QAM,	1RB/ 0RB Offset

						64QAM, 256QAM	Outer_ Full
				High	90MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 244RB Offset
							Outer_ Full
		650000 to 662000	650000 to 662000	Low	100MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
				High	100MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 272RB Offset
							Outer_ Full
A	CONDUCTED EMISSION	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		647668 to 664332	647668 to 664332	Low, Middle, High	30MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		648334 to 663666	648334 to 663666	Low, Middle, High	50MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		649000 to 663000	649000 to 663000	Low, Middle, High	80MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		649334 to 662666	649334 to 662666	Low, Middle, High	90MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		649668 to 662332	649668 to 662332	Low, Middle, High	100MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		647668 to 664332	647668 to 664332	Low, Middle, High	30MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		648334 to 663666	648334 to 663666	Low, Middle, High	50MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		649000 to 663000	649000 to 663000	Low, Middle, High	70MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		649334 to 662666	649334 to 662666	Low, Middle, High	80MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		649668 to 662332	649668 to 662332	Low, Middle, High	90MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in Pi/2BPSK modulation.

2. The test data Included SA_n77C&DC_41A_n77C in SA_n77-HPUE

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	EUT 4.0V	Jace Hu
FREQUENCY STABILITY	23deg. C, 70%RH	EUT 4.0V	James Fu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	EUT 4.0V	James Fu
BAND EDGE	23deg. C, 70%RH	EUT 4.0V	James Fu
CONDUCTED EMISSION	23deg. C, 70%RH	EUT 4.0V	James Fu
RADIATED EMISSION	23deg. C, 70%RH	EUT 4.0V	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	EUT 4.0V	James Fu

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.”

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP

According to the specific rule Part 27.50(b)(10) and 27.50(c)(10) Fixed, mobile, and Portable stations (hand-held devices) transmitting in the 698-746 MHz, 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP

According to the specific rule Part 27.50(j)(4) ,Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determing the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP or EIRP = $P_{Meas} + G_T – L_C$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas}, typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

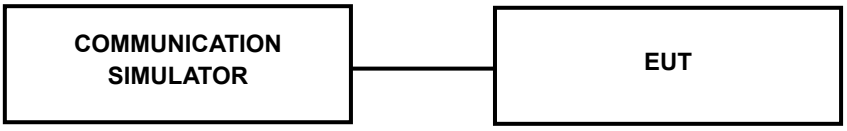
L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

5G ENDC:
N41-LTE5

BW	MCS Index	RB	RB Size	RB Offset	Low CH 501204	Mid CH 518598	High CH 535998	Max. Tune-up (dBm)
					Frequency 2506.02MHz	Frequency 2592.99MHz	Frequency 2679.99MHz	
20M	CP-OFDM QPSK	Outer	1	0	20.48	19.64	19.75	21
			1	50	19.93	19.08	19.12	21
			2	0	20.57	19.79	19.85	21
			2	49	20.03	19.17	19.26	21
			51	0	20.17	19.34	19.47	21
		Inner	1	1	22.07	21.25	21.26	22.5
			1	49	21.30	20.51	20.57	22.5
			25	12	21.58	20.78	20.82	22.5
	CP-OFDM 16QAM	Outer	1	0	20.50	19.63	19.77	21
			1	50	19.91	19.14	19.20	21
			2	0	20.46	19.59	19.73	21
			2	49	19.81	19.04	19.10	21
			51	0	20.22	19.38	19.49	21
		Inner	1	1	22.07	21.21	21.30	22.5
			1	49	21.31	20.51	20.61	22.5
			25	12	21.10	20.59	20.51	22.5
	CP-OFDM 64QAM	Outer	1	0	19.88	19.06	19.15	20.5
			1	50	19.34	18.53	18.61	20.5
			2	0	20.09	19.23	19.32	20.5
			2	49	19.43	18.60	18.73	20.5
			51	0	19.75	18.88	19.02	20.5
		Inner	1	1	19.97	19.20	19.26	20.5
			1	49	19.36	18.56	18.63	20.5
			25	12	19.59	18.82	18.88	20.5
	CP-OFDM 256QAM	Outer	1	0	16.36	15.52	15.63	17
			1	50	16.92	16.06	16.15	17
			2	0	16.88	16.05	16.18	17
			2	49	16.30	15.48	15.49	17
			51	0	16.77	15.93	15.96	17
		Inner	1	1	17.01	16.21	16.25	17.5
			1	49	16.35	15.65	15.59	17.5
			25	12	16.58	15.78	15.89	17.5

BW	MCS Index	RB	RB Size	RB Offset	Low CH 502200 Frequency 2511MHz	Mid CH 518598 Frequency 2592.99MHz	High CH 534996 Frequency 2674.98MHz	Max. Tune-up (dBm)
30M	CP-OFDM QPSK	Outer	1	0	20.45	19.68	19.71	21
			1	77	19.87	19.08	19.18	21
			2	0	20.59	19.77	19.84	21
			2	76	19.97	19.23	19.26	21
			78	0	20.19	19.37	19.48	21
		Inner	1	1	22.02	21.25	21.29	22.5
			1	76	21.30	20.54	20.61	22.5
			39	19	21.52	20.77	20.81	22.5
	CP-OFDM 16QAM	Outer	1	0	20.50	19.63	19.76	21
			1	77	19.91	19.12	19.17	21
			2	0	20.42	19.65	19.68	21
			2	76	19.84	19.00	19.14	21
			78	0	20.21	19.39	19.46	21
		Inner	1	1	22.03	21.20	21.33	22.5
			1	76	21.36	20.57	20.55	22.5
			39	19	21.06	20.53	20.53	22.5
	CP-OFDM 64QAM	Outer	1	0	19.94	19.08	19.19	20.5
			1	77	19.32	18.52	18.58	20.5
			2	0	20.09	19.22	19.35	20.5
			2	76	19.44	18.60	18.74	20.5
			78	0	19.69	18.92	18.98	20.5
		Inner	1	1	20.02	19.18	19.29	20.5
			1	76	19.36	18.57	18.59	20.5
			39	19	19.59	18.85	18.91	20.5
	CP-OFDM 256QAM	Outer	1	0	16.35	15.53	15.57	17
			1	77	16.86	16.12	16.18	17
			2	0	16.89	16.08	16.16	17
			2	76	16.29	15.42	15.56	17
			78	0	16.77	15.93	15.96	17
		Inner	1	1	17.01	16.21	16.25	17.5
			1	76	16.35	15.65	15.59	17.5
			39	19	16.58	15.78	15.89	17.5

BW	MCS Index	RB	RB Size	RB Offset	Low CH 503202 Frequency 2516.01MHz	Mid CH 518598 Frequency 2592.99MHz	High CH 534000 Frequency 2670MHz	Max. Tune-up (dBm)
40M	CP-OFDM QPSK	Outer	1	0	20.47	19.62	19.76	21
			1	105	19.91	19.07	19.16	21
			2	0	20.62	19.78	19.87	21
			2	104	20.00	19.23	19.25	21
			106	0	20.21	19.37	19.48	21
		Inner	1	1	22.01	21.25	21.26	22.5
			1	104	21.33	20.56	20.62	22.5
			53	26	21.59	20.73	20.83	22.5
	CP-OFDM 16QAM	Outer	1	0	20.47	19.69	19.74	21
			1	105	19.97	19.15	19.19	21
			2	0	20.40	19.66	19.72	21
			2	104	19.85	19.03	19.07	21
			106	0	20.19	19.42	19.48	21
		Inner	1	1	22.04	21.20	21.34	22.5
			1	104	21.34	20.55	20.57	22.5
			53	26	21.04	20.56	20.57	22.5
	CP-OFDM 64QAM	Outer	1	0	19.87	19.12	19.15	20.5
			1	105	19.35	18.51	18.62	20.5
			2	0	20.03	19.24	19.30	20.5
			2	104	19.48	18.64	18.73	20.5
			106	0	19.69	18.95	19.01	20.5
		Inner	1	1	20.03	19.18	19.23	20.5
			1	104	19.37	18.62	18.56	20.5
			53	26	19.62	18.78	18.89	20.5
	CP-OFDM 256QAM	Outer	1	0	16.38	15.56	15.57	17
			1	105	16.89	16.05	16.16	17
			2	0	16.92	16.10	16.14	17
			2	104	16.26	15.48	15.50	17
			106	0	16.71	15.92	16.02	17
		Inner	1	1	16.99	16.17	16.26	17.5
			1	104	16.30	15.61	15.61	17.5
			53	26	16.56	15.81	15.84	17.5

BW	MCS Index	RB	RB Size	RB Offset	Low CH 504204	Mid CH 518598	High CH 532998	Max. Tune-up (dBm)
					Frequency 2521.02MHz	Frequency 2592.99MHz	Frequency 2664.99MHz	
50M	CP-OFDM QPSK	Outer	1	0	20.46	19.63	19.72	21
			1	132	19.92	19.05	19.18	21
			2	0	20.58	19.74	19.88	21
			2	131	20.01	19.19	19.26	21
			133	0	20.15	19.41	19.44	21
		Inner	1	1	22.04	21.22	21.33	22.5
			1	131	21.31	20.57	20.58	22.5
			67	33	21.53	20.74	20.84	22.5
	CP-OFDM 16QAM	Outer	1	0	20.44	19.69	19.73	21
			1	132	19.97	19.10	19.23	21
			2	0	20.40	19.61	19.66	21
			2	131	19.83	19.06	19.09	21
			133	0	20.18	19.39	19.49	21
		Inner	1	1	22.07	21.23	21.31	22.5
			1	131	21.32	20.57	20.55	22.5
			67	33	21.09	20.56	20.55	22.5
	CP-OFDM 64QAM	Outer	1	0	19.87	19.12	19.15	20.5
			1	132	19.31	18.51	18.56	20.5
			2	0	20.09	19.24	19.29	20.5
			2	131	19.44	18.66	18.73	20.5
			133	0	19.75	18.91	18.95	20.5
		Inner	1	1	19.99	19.17	19.25	20.5
			1	131	19.36	18.59	18.57	20.5
			67	33	19.59	18.84	18.87	20.5
	CP-OFDM 256QAM	Outer	1	0	16.37	15.57	15.58	17
			1	132	16.86	16.08	16.12	17
			2	0	16.91	16.12	16.12	17
			2	131	16.26	15.43	15.52	17
			133	0	16.76	15.89	16.02	17
		Inner	1	1	17.00	16.16	16.30	17.5
			1	131	16.36	15.64	15.55	17.5
			67	33	16.57	15.75	15.84	17.5

BW	MCS Index	RB	RB Size	RB Offset	Low CH 505200 Frequency 2526MHz	Mid CH 518598 Frequency 2592.99MHz	High CH 531996 Frequency 2659.98MHz	Max. Tune-up (dBm)
60M	CP-OFDM QPSK	Outer	1	0	20.45	19.68	19.71	21
			1	161	19.87	19.08	19.18	21
			2	0	20.59	19.77	19.84	21
			2	160	19.97	19.23	19.26	21
			162	0	20.19	19.37	19.48	21
		Inner	1	1	22.02	21.25	21.29	22.5
			1	160	21.30	20.54	20.61	22.5
			81	40	21.52	20.77	20.81	22.5
	CP-OFDM 16QAM	Outer	1	0	20.50	19.63	19.76	21
			1	161	19.91	19.12	19.17	21
			2	0	20.42	19.65	19.68	21
			2	160	19.84	19.00	19.14	21
			162	0	20.21	19.39	19.46	21
		Inner	1	1	22.03	21.20	21.33	22.5
			1	160	21.36	20.57	20.55	22.5
			81	40	21.06	20.53	20.53	22.5
	CP-OFDM 64QAM	Outer	1	0	19.94	19.08	19.19	20.5
			1	161	19.32	18.52	18.58	20.5
			2	0	20.09	19.22	19.35	20.5
			2	160	19.44	18.60	18.74	20.5
			162	0	19.69	18.92	18.98	20.5
		Inner	1	1	20.02	19.18	19.29	20.5
			1	160	19.36	18.57	18.59	20.5
			81	40	19.59	18.85	18.91	20.5
	CP-OFDM 256QAM	Outer	1	0	16.35	15.53	15.57	17
			1	161	16.86	16.12	16.18	17
			2	0	16.89	16.08	16.16	17
			2	160	16.29	15.42	15.56	17
			162	0	16.77	15.93	15.96	17
		Inner	1	1	17.01	16.21	16.25	17.5
			1	160	16.35	15.65	15.59	17.5
			81	40	16.58	15.78	15.89	17.5

BW	MCS Index	RB	RB Size	RB Offset	Low CH 507204 Frequency 2536.02MHz	Mid CH 518598 Frequency 2592.99MHz	High CH 529998 Frequency 2649.99MHz	Max. Tune-up (dBm)
80M	CP-OFDM QPSK	Outer	1	0	20.46	19.63	19.72	21
			1	216	19.92	19.05	19.18	21
			2	0	20.58	19.74	19.88	21
			2	215	20.01	19.19	19.26	21
			217	0	20.15	19.41	19.44	21
		Inner	1	1	22.04	21.22	21.33	22.5
			1	215	21.31	20.57	20.58	22.5
			109	54	21.53	20.74	20.84	22.5
	CP-OFDM 16QAM	Outer	1	0	20.44	19.69	19.73	21
			1	216	19.97	19.10	19.23	21
			2	0	20.40	19.61	19.66	21
			2	215	19.83	19.06	19.09	21
			217	0	20.18	19.39	19.49	21
		Inner	1	1	22.03	21.21	21.30	22.5
			1	215	21.30	20.54	20.61	22.5
			109	54	21.03	20.59	20.53	22.5
	CP-OFDM 64QAM	Outer	1	0	19.87	19.13	19.19	20.5
			1	216	19.33	18.54	18.55	20.5
			2	0	20.03	19.29	19.35	20.5
			2	215	19.45	18.63	18.67	20.5
			217	0	19.71	18.94	19.00	20.5
		Inner	1	1	19.99	19.17	19.26	20.5
			1	215	19.31	18.59	18.62	20.5
			109	54	19.59	18.84	18.87	20.5
	CP-OFDM 256QAM	Outer	1	0	16.31	15.57	15.63	17
			1	216	16.90	16.08	16.12	17
			2	0	16.86	16.12	16.18	17
			2	215	16.26	15.45	15.53	17
			217	0	16.76	15.89	16.03	17
		Inner	1	1	16.97	16.20	16.26	17.5
			1	215	16.34	15.60	15.61	17.5
			109	54	16.62	15.76	15.85	17.5

BW	MCS Index	RB	RB Size	RB Offset	Low CH 508200 Frequency 2541MHz	Mid CH 518598 Frequency 2592.99MHz	High CH 528996 Frequency 2644.98MHz	Max. Tune-up (dBm)
90M	CP-OFDM QPSK	Outer	1	0	20.50	19.66	19.69	21
			1	244	19.90	19.10	19.14	21
			2	0	20.61	19.81	19.85	21
			2	243	19.99	19.19	19.30	21
			245	0	20.22	19.40	19.44	21
		Inner	1	1	22.00	21.20	21.32	22.5
			1	243	21.36	20.55	20.60	22.5
			123	61	21.57	20.78	20.80	22.5
	CP-OFDM 16QAM	Outer	1	0	20.48	19.66	19.76	21
			1	244	19.93	19.16	19.22	21
			2	0	20.46	19.59	19.73	21
			2	243	19.81	19.04	19.10	21
			245	0	20.22	19.38	19.49	21
		Inner	1	1	22.08	21.23	21.27	22.5
			1	243	21.31	20.56	20.59	22.5
			123	61	21.09	20.54	20.54	22.5
	CP-OFDM 64QAM	Outer	1	0	19.89	19.06	19.19	20.5
			1	244	19.36	18.57	18.55	20.5
			2	0	20.04	19.22	19.31	20.5
			2	243	19.47	18.67	18.71	20.5
			245	0	19.75	18.88	19.02	20.5
		Inner	1	1	19.97	19.20	19.26	20.5
			1	243	19.36	18.56	18.63	20.5
			123	61	19.59	18.82	18.88	20.5
	CP-OFDM 256QAM	Outer	1	0	16.36	15.52	15.63	17
			1	244	16.92	16.06	16.15	17
			2	0	16.88	16.05	16.18	17
			2	243	16.30	15.48	15.49	17
			245	0	16.71	15.89	15.98	17
		Inner	1	1	17.02	16.18	16.29	17.5
			1	243	16.35	15.59	15.58	17.5
			123	61	16.58	15.75	15.88	17.5

BW	MCS Index	RB	RB Size	RB Offset	Low CH 509202 Frequency 2546.01MHz	Mid CH 518598 Frequency 2592.99MHz	High CH 528000 Frequency 2640MHz	Max. Tune-up (dBm)
100M	CP-OFDM QPSK	Outer	1	0	20.51	19.70	19.77	21
			1	272	19.94	19.13	19.20	21
			2	0	20.63	19.82	19.89	21
			2	271	20.05	19.24	19.31	21
			273	0	20.23	19.42	19.49	21
		Inner	1	1	22.08	21.27	21.34	22.5
			1	271	21.37	20.59	20.63	22.5
			137	68	21.60	20.79	20.86	22.5
	CP-OFDM 16QAM	Outer	1	0	20.52	19.71	19.78	21
			1	272	19.99	19.18	19.25	21
			2	0	20.48	19.67	19.74	21
			2	271	19.89	19.08	19.15	21
			273	0	20.25	19.44	19.51	21
		Inner	1	1	22.09	21.28	21.35	22.5
			1	271	21.37	20.59	20.63	22.5
			137	68	21.11	20.61	20.59	22.5
	CP-OFDM 64QAM	Outer	1	0	19.95	19.14	19.21	20.5
			1	272	19.37	18.59	18.63	20.5
			2	0	20.11	19.30	19.37	20.5
			2	271	19.49	18.68	18.75	20.5
			273	0	19.77	18.96	19.03	20.5
		Inner	1	1	20.05	19.24	19.31	20.5
			1	271	19.38	18.64	18.64	20.5
			137	68	19.67	18.86	18.93	20.5
	CP-OFDM 256QAM	Outer	1	0	16.39	15.58	15.65	17
			1	272	16.94	16.13	16.20	17
			2	0	16.94	16.13	16.20	17
			2	271	16.31	15.50	15.57	17
			273	0	16.78	15.97	16.04	17
		Inner	1	1	17.05	16.24	16.31	17.5
			1	271	16.37	15.66	15.63	17.5
			137	68	16.64	15.83	15.90	17.5

BW	MCS Index	RB	RB Size	RB Offset	Low CH 501204 Frequency 2506.02MHz	Mid CH 518598 Frequency 2592.99MHz	High CH 535998 Frequency 2679.99MHz	Max. Tune-up (dBm)
20M	DFT-s-OFDM Pi/2 BPSK	Outer	1	0	23.09	22.30	22.38	23.5
			1	50	22.46	21.76	21.77	23.5
			2	0	23.09	22.36	22.39	23.5
			2	49	22.53	21.82	21.78	23.5
			50	0	22.68	21.90	22.00	23.5
		Inner	1	1	23.72	22.91	22.97	24
			1	49	23.01	22.23	22.33	24
			25	12	23.11	22.34	22.32	24
	DFT-s-OFDM QPSK	Outer	1	0	22.51	21.69	21.80	23
			1	50	21.88	21.29	21.31	23
			2	0	22.62	21.80	21.91	23
			2	49	21.96	21.34	21.27	23
			50	0	22.22	21.43	21.51	23
		Inner	1	1	23.72	22.91	22.97	24
			1	49	23.01	22.23	22.33	24
			25	12	23.11	22.34	22.32	24
	DFT-s-OFDM 16QAM	Outer	1	0	21.59	20.82	20.88	22
			1	50	21.04	20.25	20.33	22
			2	0	21.60	20.79	20.85	22
			2	49	20.94	20.26	20.36	22
			50	0	21.28	20.46	20.57	22
		Inner	2	49	22.84	22.22	22.25	23
			25	12	22.39	21.57	21.68	23
			50	0	22.04	21.32	21.35	23
	DFT-s-OFDM 64QAM	Outer	1	0	21.23	20.44	20.52	21.5
			1	50	20.64	19.83	19.89	21.5
			2	0	21.10	20.32	20.42	21.5
			2	49	20.53	20.36	19.74	21.5
			50	0	20.78	19.99	19.99	21.5
		Inner	1	1	21.27	20.52	20.53	21.5
			1	49	20.77	20.02	20.03	21.5
			25	12	20.62	19.87	19.95	21.5
	DFT-s-OFDM 256QAM	Outer	1	0	20.82	20.05	20.06	21.5
			1	50	20.23	19.78	19.87	21.5
			2	0	21.38	20.59	20.64	21.5
			2	49	20.78	20.04	20.03	21.5
			50	0	20.72	19.95	20.02	21.5
		Inner	1	1	20.82	20.10	20.13	21
			1	49	20.16	19.74	19.85	21
			25	12	20.60	19.88	19.91	21