

FCC RF TEST REPORT

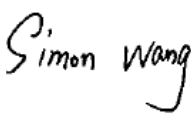
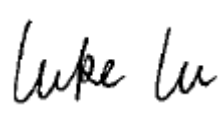
Applicant:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA

Manufacturer or Supplier:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Product:	FE5NA0010, FE5NA0011
Brand Name:	Continental
Model Name:	FE5NA0010, FE5NA0011
FCC ID:	LHJ-FE5NA0010
Date of tests:	Mar. 15, 2022 ~ Sep. 07, 2022

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
 Date: Sep. 07, 2022	 Date: Sep. 07, 2022

This report is governed by, and incorporates by reference, the Conditions of Testing 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. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. 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 your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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4 INFORMATION ON THE TESTING LABORATORIES 544

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB. 545



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-220214W001RF06	Original release	Sep. 07, 2022

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 n25,n41,n66,n77C)	Compliance
§2.1055 §27.54	Frequency Stability	Compliance
§2.1049	Occupied Bandwidth	Compliance
§2.1051 §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6)	Band Edge Measurements	Compliance
§2.1051 §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6)	Conducted Spurious Emissions	Compliance
§2.1053 §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6)	Radiated Spurious Emissions	Compliance
§27.50(j)(4)	Peak-to-Average Ratio	Compliance

1.1 MEASUREMENT 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	$\pm 76.97\text{Hz}$
Radiated emissions & Radiated Power (30MHz~1GMHz)	$\pm 4.98\text{dB}$
Radiated emissions & Radiated Power (1GMHz ~6GMHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GMHz ~18GMHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GMHz ~40GMHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Conducted Output power	$\pm 2.06\text{dB}$
Band Edge Measurements	$\pm 4.70\text{dB}$

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	Feb. 18,22	Feb. 17,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.16,21	May.15,22
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.15,22	May.14,23
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.05,21	Sep.04,22
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.04,22	Sep.03,23
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Mar. 06,22	Mar. 05,23
Horn Antenna	ETS-LINDGRE N	3117	00168692	Mar. 06,22	Mar. 05,23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 25, 21	Aug. 24, 22
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 24, 22	Aug. 23, 23
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 15,22	Feb. 14,23
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.13,21	May.12,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.13,21	May.12,22
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 21,22	Feb.20,23
3m Semi-anechoic Chamber	ETS-LINDGRE N	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	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	May. 08,21	May. 07,22
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	May. 07,22	May. 06,23
Power Meter	Anritsu	ML2495A	1506002	Feb. 22,22	Feb. 21,23
Power Sensor	Anritsu	MA2411B	1339352	May. 08,21	May. 07,22
Power Sensor	Anritsu	MA2411B	1339352	May. 07,22	May. 06,23
Temperature Chamber	ESPEC	SH-242	93000855	May. 13,21	May. 12,22
Temperature Chamber	ESPEC	SH-242	93000855	May. 12,22	May. 11,23
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 18,22	Feb. 17,23
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.13,21	May.12,22
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.12,22	May.11,23
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 25,21	Aug. 24,22
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 24,22	Aug. 23,23
Radio Communication Analyzer	Starpoint	SP9500-CTS	20460	Oct. 14,21	Oct. 13,22

- 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



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tested.

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

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	FE5NA0010, FE5NA0011	
BRAND NAME	Continental	
MODEL NAME	FE5NA0010, FE5NA0011	
NOMINAL VOLTAGE	EUT 4.0V	
MODULATION TECHNOLOGY	5G NR	DFT-s-OFMA(Pi/2 BPSK,QPSK,16QAM,64QAM,256QAM); CP-OFMA(QPSK,16QAM,64QAM,256QAM);
SUPPORT ENDC COMBINE	NR Band n25	Only SA Mode
	NR Band n41	
	NR Band n71	
	NR Band n66	5A_n66
		12A_n66
		14A_n66
	NR Band n77C	2A_n77C
		5A_n77C
		12A_n77C
		14A_n77C
		66A_n77C
FREQUENCY RANGE	NR Band n25	1852.50MHz ~ 1912.50MHz
	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
EMISSION DESIGNATOR	NR Band n25 Channel Bandwidth: 5MHz	Pi/2BPSK: 4M51G7D
		QPSK: 4M47G7D
		16QAM: 4M49W7D
		64QAM: 4M48W7D
		256QAM: 4M49W7D

EMISSION DESIGNATOR	NR Band n25 Channel Bandwidth: 10MHz	Pi/2BPSK: 8M89G7D
		QPSK: 8M87G7D
		16QAM: 8M87W7D
		64QAM: 8M87W7D
		256QAM: 8M87W7D
	NR Band n25 Channel Bandwidth: 15MHz	Pi/2BPSK: 13M5G7D
		QPSK: 13M5G7D
		16QAM: 13M5W7D
		64QAM: 13M5W7D
		256QAM: 13M5W7D
	NR Band n25 Channel Bandwidth: 20MHz	Pi/2BPSK: 17M9G7D
		QPSK: 17M9G7D
		16QAM: 17M9W7D
		64QAM: 17M9W7D
		256QAM: 17M9W7D
	NR Band n41-HPUE Channel Bandwidth: 20MHz	Pi/2BPSK: 18M6G7D
		QPSK: 18M6G7D
		16QAM: 18M6W7D
		64QAM: 18M6W7D
		256QAM: 18M6W7D
	NR Band n41-HPUE Channel Bandwidth: 30MHz	Pi/2BPSK: 27M3G7D
		QPSK: 27M2G7D
		16QAM: 27M3W7D
		64QAM: 27M2W7D
		256QAM: 27M3W7D
	NR Band n41-HPUE Channel Bandwidth: 40MHz	Pi/2BPSK: 36M1G7D
		QPSK: 36M0G7D
		16QAM: 36M1W7D
		64QAM: 36M0W7D
		256QAM: 36M1W7D
	NR Band n41-HPUE Channel Bandwidth 50MHz	Pi/2BPSK: 45M9G7D
		QPSK: 46M1G7D
		16QAM: 46M1W7D
		64QAM: 46M0W7D
		256QAM: 46M0W7D
	NR Band n41-HPUE Channel Bandwidth 60MHz	Pi/2BPSK: 58M1G7D
		QPSK: 58M2G7D
		16QAM: 58M2W7D
		64QAM: 58M1W7D
		256QAM: 58M2W7D

EMISSION DESIGNATOR	NR Band n41-HPUE Channel Bandwidth 80MHz	Pi/2BPSK: 77M4G7D
		QPSK: 77M2G7D
		16QAM: 77M1W7D
		64QAM: 77M4W7D
		256QAM: 77M5W7D
	NR Band n41-HPUE Channel Bandwidth 90MHz	Pi/2BPSK: 85M7G7D
		QPSK: 85M8G7D
		16QAM: 85M6W7D
		64QAM: 85M6W7D
		256QAM: 85M7W7D
	NR Band n41-HPUE Channel Bandwidth 100MHz	Pi/2BPSK: 96M1G7D
		QPSK: 96M2G7D
		16QAM: 96M1W7D
		64QAM: 96M2W7D
		256QAM: 96M1W7D
	NR Band n66 Channel Bandwidth: 5MHz	Pi/2BPSK: 4M47G7D
		QPSK: 4M46G7D
		16QAM: 4M47W7D
		64QAM: 4M47W7D
		256QAM: 4M47W7D
	NR Band n66 Channel Bandwidth: 10MHz	Pi/2BPSK: 8M90G7D
		QPSK: 8M92G7D
		16QAM: 8M90W7D
		64QAM: 8M89W7D
		256QAM: 8M89W7D
	NR Band n66 Channel Bandwidth: 15MHz	Pi/2BPSK: 13M6G7D
		QPSK: 13M5G7D
		16QAM: 13M5W7D
		64QAM: 13M5W7D
		256QAM: 13M5W7D
	NR Band n66 Channel Bandwidth: 20MHz	Pi/2BPSK: 17M9G7D
		QPSK: 17M9G7D
		16QAM: 17M9W7D
		64QAM: 17M9W7D
		256QAM: 17M9W7D
	NR Band n66 Channel Bandwidth: 30MHz	Pi/2BPSK: 29M0G7D
		QPSK: 29M0G7D
		16QAM: 29M0W7D
		64QAM: 29M0W7D
		256QAM: 29M1W7D

EMISSION DESIGNATOR	NR Band n66 Channel Bandwidth: 40MHz	Pi/2BPSK: 38M8G7D
		QPSK: 38M9G7D
		16QAM: 38M9W7D
		64QAM: 38M9W7D
		256QAM: 38M8W7D
	NR Band n71 Channel Bandwidth: 5MHz	Pi/2BPSK: 4M50G7D
		QPSK: 4M52G7D
		16QAM: 4M52W7D
		64QAM: 4M52W7D
		256QAM: 4M50W7D
	NR Band n71 Channel Bandwidth: 10MHz	Pi/2BPSK: 8M94G7D
		QPSK: 8M95G7D
		16QAM: 8M94W7D
		64QAM: 8M94W7D
		256QAM: 8M93W7D
	NR Band n71 Channel Bandwidth: 15MHz	Pi/2BPSK: 13M5G7D
		QPSK: 13M5G7D
		16QAM: 13M5W7D
		64QAM: 13M5W7D
		256QAM: 13M5W7D
	NR Band n71 Channel Bandwidth: 20MHz	Pi/2BPSK: 18M4G7D
		QPSK: 18M4G7D
		16QAM: 18M4W7D
		64QAM: 18M4W7D
		256QAM: 18M4W7D
	NR Band 77C-HPUE Channel Bandwidth: 20MHz	Pi/2BPSK: 17M8G7D
		QPSK: 17M9G7D
		16QAM: 17M9W7D
		64QAM: 17M9W7D
		256QAM: 17M8W7D
	NR Band 77C-HPUE Channel Bandwidth: 30MHz	Pi/2BPSK: 26M9G7D
		QPSK: 26M7G7D
		16QAM: 26M7W7D
		64QAM: 26M6W7D
		256QAM: 26M8W7D
	NR Band 77C-HPUE Channel Bandwidth: 40MHz	Pi/2BPSK: 36M2G7D
		QPSK: 36M0G7D
		16QAM: 36M2W7D
		64QAM: 36M0W7D
		256QAM: 35M8W7D

EMISSION DESIGNATOR	NR Band 77C-HPUE Channel Bandwidth: 50MHz	Pi/2BPSK: 46M2G7D
		QPSK: 46M1G7D
		16QAM: 46M2W7D
		64QAM: 46M0W7D
		256QAM: 45M9W7D
	NR Band 77C-HPUE Channel Bandwidth: 60MHz	Pi/2BPSK: 57M8G7D
		QPSK: 58M3G7D
		16QAM: 58M1W7D
		64QAM: 58M0W7D
		256QAM: 58M2W7D
	NR Band 77C-HPUE Channel Bandwidth: 70MHz	Pi/2BPSK: 64M6G7D
		QPSK: 64M6G7D
		16QAM: 64M5W7D
		64QAM: 64M3W7D
		256QAM: 64M4W7D
	NR Band 77C-HPUE Channel Bandwidth: 80MHz	Pi/2BPSK: 77M4G7D
		QPSK: 77M3G7D
		16QAM: 77M4W7D
		64QAM: 77M3W7D
		256QAM: 77M4W7D
	NR Band 77C-HPUE Channel Bandwidth: 90MHz	Pi/2BPSK: 85M8G7D
		QPSK: 85M5G7D
		16QAM: 85M9W7D
		64QAM: 85M9W7D
		256QAM: 85M8W7D
	NR Band 77C-HPUE Channel Bandwidth: 100MHz	Pi/2BPSK: 96M2G7D
		QPSK: 95M7G7D
		16QAM: 96M6W7D
		64QAM: 95M8W7D
		256QAM: 95M8W7D
MAX. EIRP POWER	NR Band n25 Channel Bandwidth: 5MHz	399.94mW
	NR Band n25 Channel Bandwidth: 10MHz	399.94mW
	NR Band n25 Channel Bandwidth: 15MHz	400.87mW

MAX. EIRP POWER	NR Band n25 Channel Bandwidth: 20MHz	401.79mW
	NR Band n41 Channel Bandwidth: 20MHz	354.00mW
	NR Band n41 Channel Bandwidth: 30MHz	356.45mW
	NR Band n41 Channel Bandwidth: 40MHz	357.27mW
	NR Band n41 Channel Bandwidth: 50MHz	358.92mW
	NR Band n41 Channel Bandwidth: 60MHz	356.45mW
	NR Band n41 Channel Bandwidth: 80MHz	358.92mW
	NR Band n41 Channel Bandwidth: 90MHz	358.10mW
	NR Band n41 Channel Bandwidth: 100MHz	359.75mW
	NR Band n41-HPUE Channel Bandwidth: 20MHz	647.14mW
	NR Band n41-HPUE Channel Bandwidth: 30MHz	645.65mW
	NR Band n41-HPUE Channel Bandwidth: 40MHz	648.63mW
	NR Band n41-HPUE Channel Bandwidth: 50MHz	650.13mW

MAX. EIRP POWER	NR Band n41-HPUE Channel Bandwidth: 60MHz	645.65mW
	NR Band n41-HPUE Channel Bandwidth: 80MHz	650.13mW
	NR Band n41-HPUE Channel Bandwidth: 90MHz	644.17mW
	NR Band n41-HPUE Channel Bandwidth: 100MHz	653.13mW
	NR Band n66 Channel Bandwidth: 5MHz	492.04mW
	NR Band n66 Channel Bandwidth: 10MHz	487.53mW
	NR Band n66 Channel Bandwidth: 15MHz	486.41mW
	NR Band n66 Channel Bandwidth: 20MHz	488.65mW
	NR Band n66 Channel Bandwidth: 30MHz	489.78mW
	NR Band n66 Channel Bandwidth: 40MHz	493.17mW
	NR Band n71 Channel Bandwidth: 5MHz	135.52mW
	NR Band n71 Channel Bandwidth: 10MHz	136.14mW
	NR Band n71 Channel Bandwidth: 15MHz	136.77mW

MAX. EIRP POWER	NR Band n71 Channel Bandwidth: 20MHz	137.72mW
	NR Band 77C Channel Bandwidth: 20MHz	348.34mW
	NR Band 77C Channel Bandwidth: 30MHz	348.34mW
	NR Band 77C Channel Bandwidth: 40MHz	348.34mW
	NR Band 77C Channel Bandwidth: 50MHz	345.94mW
	NR Band 77C Channel Bandwidth: 60MHz	348.34mW
	NR Band 77C Channel Bandwidth: 70MHz	348.34mW
	NR Band 77C Channel Bandwidth: 80MHz	345.94mW
	NR Band 77C Channel Bandwidth: 90MHz	344.35mW
	NR Band 77C Channel Bandwidth: 100MHz	349.95mW
	NR Band 77C-HPUE Channel Bandwidth: 20MHz	683.91mW
	NR Band 77C-HPUE Channel Bandwidth: 30MHz	679.20mW
	NR Band 77C-HPUE Channel Bandwidth: 40MHz	685.49mW
	NR Band 77C-HPUE Channel Bandwidth: 50MHz	676.08mW
	NR Band 77C-HPUE Channel Bandwidth: 60MHz	679.20mW
	NR Band 77C-HPUE Channel Bandwidth: 70MHz	683.91mW

MAX. EIRP POWER	NR Band 77C-HPUE Channel Bandwidth: 80MHz	676.08mW
	NR Band 77C-HPUE Channel Bandwidth: 90MHz	683.91mW
	NR Band 77C-HPUE Channel Bandwidth: 100MHz	687.07mW
ANTENNA TYPE	Monopole Antenna with 4.84 dBi gain for NR Band n25 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_LE2.1_01.12.13	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
EXTREME TEMPERATURE	-40-85 °C	
EXTREME VOLTAGE	EUT 3.8V - EUT 4.2V	

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

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

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- Max ERP/EIRP is according to Max conducted power calculate for SA.
- The N41-HPUE&N77C-HPUE induced N41&N77C.
- According to the information provided by the manufacturer, The difference between FE5NA0010, FE5NA0011 is as follows:

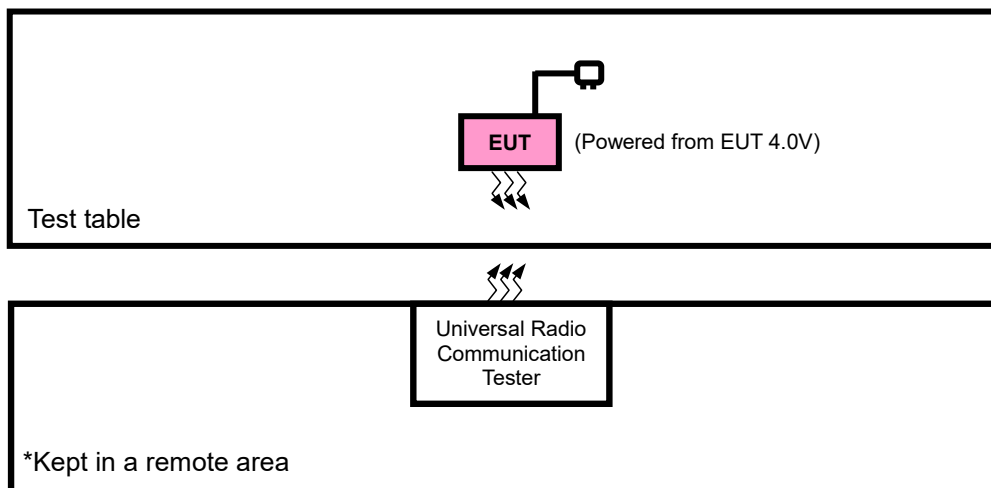
TA-code	L2/L5 GNSS	Band Difference
FE5NA0010	support	/
FE5NA0011	not support	BOM change: depopulated passive components from the GNSS RF front-end



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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 n25 MODE (SA_n25)

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	370500 to 382500	370500 to 382500	Low, Middle, High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		371000 to 382000	371000 to 382000	Low, Middle, High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		371500 to 381500	371500 to 381500	Low, Middle, High	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	Frequency stability	372000 to 381000	372000 to 381000	Low, Middle, High	20MHz	Pi/2BPSK,	Outer_ Full
A	OCCUPIED BANDWIDTH	370500 to 382500	370500 to 382500	Middle	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full

		371000 to 382000	371000 to 382000	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		371500 to 381500	371500 to 381500	Middle	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		372000 to 381000	372000 to 381000	Middle	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	370500 to 382500	370500 to 382500	Low	5MHz	Pi/2BPSK	1RB/ 0RB Offset
				High	5MHz	Pi/2BPSK	1RB/ max Offset
		371000 to 382000	371000 to 382000	Low	10MHz	Pi/2BPSK	1RB/ 0RB Offset
				High	10MHz	Pi/2BPSK	1RB/ max Offset
		371500 to 381500	371500 to 381500	Low	15MHz	Pi/2BPSK	1RB/ 0RB Offset
				High	15MHz	Pi/2BPSK	1RB/ max Offset
		372000 to 381000	372000 to 381000	Low	20MHz	Pi/2BPSK	1RB/ 0RB Offset
				High	20MHz	Pi/2BPSK	1RB/ max Offset
		370500 to 382500	370500 to 382500	Low, Middle, High	5MHz	Pi/2BPSK	1RB/ 0RB Offset
				Low, Middle, High	10MHz	Pi/2BPSK	1RB/ 0RB Offset
		371500 to 381500	371500 to 381500	Low, Middle, High	15MHz	Pi/2BPSK	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Low, Middle, High	20MHz	Pi/2BPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	370500 to 382500	370500 to 382500	Low, Middle, High	5MHz	Pi/2BPSK	1RB/ 0RB Offset
		371000 to 382000	371000 to 382000	Low, Middle, High	10MHz	Pi/2BPSK	1RB/ 0RB Offset
		371500 to 381500	371500 to 381500	Low, Middle, High	15MHz	Pi/2BPSK	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Low, Middle, High	20MHz	Pi/2BPSK	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_n25

5G NR n41 MODE (SA_n41)

EUT CONFIGURE MODE	TEST ITEM	AVAILAB LE CP-OFDM CHANNE L	AVAILABL E DFT-S-OFD M 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	AVAILAB LE CP-OFDM CHANNE L	AVAILABL E DFT-S-OFD M 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	Outer_ Full
A	OCCUPIED BANDWIDTH	501204 to 535998	501204 to 535998	Middle	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		502200 to 534996	502200 to 534996	Middle	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		503202 to 534000	503202 to 534000	Middle	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		504200 to 532998	504200 to 532998	Middle	50MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		505200 to 531996	505200 to 531996	Middle	60MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		507204 to 529998	507204 to 529998	Middle	80MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		508200 to 528996	508200 to 528996	Middle	90MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		509202 to 528000	509202 to 528000	Middle	100MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	501204 to 535998	501204 to 535998	Low	20MHz	Pi/2BPSK	1RB/ 0RB Offset
				High	20MHz	Pi/2BPSK	Outer_ Full
		502200 to 534996	502200 to 534996	Low	30MHz	Pi/2BPSK	1RB/ 50RB Offset
				High	30MHz	Pi/2BPSK	Outer_ Full
		503202 to 534000	503202 to 534000	Low	40MHz	Pi/2BPSK	1RB/ 0RB Offset
				High	40MHz	Pi/2BPSK	Outer_ Full
		504200 to 532998	504200 to 532998	Low	50MHz	Pi/2BPSK	1RB/ 105RB Offset
				High	50MHz	Pi/2BPSK	Outer_ Full
		505200 to 531996	505200 to 531996	Low	60MHz	Pi/2BPSK	1RB/ 132RB Offset
				High	60MHz	Pi/2BPSK	Outer_ Full
				Low	60MHz	Pi/2BPSK	1RB/ 0RB Offset
				High	60MHz	Pi/2BPSK	Outer_ Full
				Low	60MHz	Pi/2BPSK	1RB/ 161RB Offset
				High	60MHz	Pi/2BPSK	Outer_ Full
				Low	60MHz	Pi/2BPSK	1RB/ 161RB Offset
				High	60MHz	Pi/2BPSK	Outer_ Full

							Outer_Full 1RB/ 0RB Offset		
		507204 to 529998	507204 to 529998	Low	80MHz	Pi/2BPSK	Outer_Full 1RB/ 216RB Offset		
				High	80MHz	Pi/2BPSK	Outer_Full 1RB/ 244RB Offset		
		508200 to 528996	508200 to 528996	Low	90MHz	Pi/2BPSK	Outer_Full 1RB/ 0RB Offset		
				High	90MHz	Pi/2BPSK	Outer_Full 1RB/ 272RB Offset		
		509202 to 528000	509202 to 528000	Low	100MHz	Pi/2BPSK	Outer_Full 1RB/ 0RB Offset		
				High	100MHz	Pi/2BPSK	Outer_Full 1RB/ 272RB Offset		
		A	CONDUCT ED EMISSION	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	Pi/2BPSK	1RB/ 0RB Offset
				502200 to 534996	502200 to 534996	Low, Middle, High	30MHz	Pi/2BPSK	1RB/ 0RB Offset
				503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	Pi/2BPSK	1RB/ 0RB Offset
504200 to 532998	504200 to 532998			Low, Middle, High	50MHz	Pi/2BPSK	1RB/ 0RB Offset		
505200 to 531996	505200 to 531996			Low, Middle, High	60MHz	Pi/2BPSK	1RB/ 0RB Offset		
507204 to 529998	507204 to 529998			Low, Middle, High	80MHz	Pi/2BPSK	1RB/ 0RB Offset		
508200 to 528996	508200 to 528996			Low, Middle, High	90MHz	Pi/2BPSK	1RB/ 0RB Offset		
509202 to 528000	509202 to 528000			Low, Middle, High	100MHz	Pi/2BPSK	1RB/ 0RB Offset		
A	RADIATED EMISSION			501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	Pi/2BPSK	1RB/ 0RB Offset
				502200 to 534996	502200 to 534996	Low, Middle, High	30MHz	Pi/2BPSK	1RB/ 0RB Offset
		503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	Pi/2BPSK	1RB/ 0RB Offset		
		504200 to 532998	504200 to 532998	Low, Middle, High	50MHz	Pi/2BPSK	1RB/ 0RB Offset		
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	Pi/2BPSK	1RB/ 0RB Offset		
		507204 to 529998	507204 to 529998	Low, Middle, High	80MHz	Pi/2BPSK	1RB/ 0RB Offset		



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		508200 to 528996	508200 to 528996	Low, Middle, High	90MHz	Pi/2BPSK	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	Pi/2BPSK	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. NR SA_N41 are covered by NR SA_N41-HPUE, Because it is have higher output power , So the test data (expect EIRP) please refer to SA_N41-HPUE

5G NR n66 MODE (SA_n66, DC_5A_n66, DC_12A_n66, DC_14A_n66)

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

		505008 to 532998	505008 to 532998	Low	20MHz	Pi/2BPSK	1RB/ 0RB Offset
				High	20MHz	Pi/2BPSK	Outer_Full
		506004 to 531996	506004 to 531996	Low	30MHz	Pi/2BPSK	1RB/ 105RB Offset
				High	30MHz	Pi/2BPSK	Outer_Full
		508002 to 529998	508002 to 529998	Low	40MHz	Pi/2BPSK	1RB/ 0RB Offset
				High	40MHz	Pi/2BPSK	Outer_Full
				Low	40MHz	Pi/2BPSK	1RB/ 159RB Offset
				High	40MHz	Pi/2BPSK	Outer_Full
				Low	40MHz	Pi/2BPSK	1RB/ 215RB Offset
				High	40MHz	Pi/2BPSK	Outer_Full
				Low	40MHz	Pi/2BPSK	Outer_Full
				High	40MHz	Pi/2BPSK	Outer_Full
A	CONDUCTED EMISSION	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	Pi/2BPSK	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Low, Middle, High	10MHz	Pi/2BPSK	1RB/ 0RB Offset
		343500 to 354500	343500 to 354500	Low, Middle, High	15MHz	Pi/2BPSK	1RB/ 0RB Offset
		344000 to 354000	344000 to 354000	Low, Middle, High	20MHz	Pi/2BPSK	1RB/ 0RB Offset
		345000 to 353000	345000 to 353000	Low, Middle, High	30MHz	Pi/2BPSK	1RB/ 0RB Offset
		346000 to 352000	346000 to 352000	Low, Middle, High	40MHz	Pi/2BPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	Pi/2BPSK	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Low, Middle, High	10MHz	Pi/2BPSK	1RB/ 0RB Offset
		343500 to 354500	343500 to 354500	Low, Middle, High	15MHz	Pi/2BPSK	1RB/ 0RB Offset
		344000 to 354000	344000 to 354000	Low, Middle, High	20MHz	Pi/2BPSK	1RB/ 0RB Offset
		345000 to 353000	345000 to 353000	Low, Middle, High	30MHz	Pi/2BPSK	1RB/ 0RB Offset
		346000 to 352000	346000 to 352000	Low, Middle, High	40MHz	Pi/2BPSK	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_n66.

5G NR n71 MODE (SA_n71)

EUT CONFIGURE MODE	TESWT 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	Outer_ Full
A	OCCUPIED BANDWIDTH	133100 to 139100	133100 to 139100	Middle	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		133600 to 138600	133600 to 138600	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		134100 to 138100	134100 to 138100	Middle	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		134600 to 137600	134600 to 137600	Middle	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	133100 to 139100	133100 to 139100	Low	5MHz	Pi/2BPSK	1RB/ 0RB Offset
							1RB/ 24RB Offset
							Outer_ Full
				High	5MHz	Pi/2BPSK	1RB/ 0RB Offset
							1RB/ 24RB Offset
							Outer_ Full
		133600 to 138600	133600 to 138600	Low	10MHz	Pi/2BPSK	1RB/ 0RB Offset
							1RB/ 51RB Offset
							Outer_ Full
				High	10MHz	Pi/2BPSK	1RB/ 0RB Offset
							1RB/ 51RB Offset
							Outer_ Full
		134100 to 138100	134100 to 138100	Low	15MHz	Pi/2BPSK	1RB/ 0RB Offset
							1RB/ 78RB Offset
							Outer_ Full
				High	15MHz	Pi/2BPSK	1RB/ 0RB Offset
							1RB/ 78RB Offset
							Outer_ Full

		134600 to 137600	134600 to 137600	Low	20MHz	Pi/2BPSK	1RB/ 0RB Offset
				High	20MHz	Pi/2BPSK	1RB/ 105RB Offset
							Outer_Full
							1RB/ 0RB Offset
							1RB/ 105RB Offset
				Outer_Full			
A	CONDUCTED EMISSION	133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	Pi/2BPSK	1RB/ 0RB Offset
		133600 to 138600	133600 to 138600	Low, Middle, High	10MHz	Pi/2BPSK	1RB/ 0RB Offset
		134100 to 138100	134100 to 138100	Low, Middle, High	15MHz	Pi/2BPSK	1RB/ 0RB Offset
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	Pi/2BPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	Pi/2BPSK	1RB/ 0RB Offset
		133600 to 138600	133600 to 138600	Low, Middle, High	10MHz	Pi/2BPSK	1RB/ 0RB Offset
		134100 to 138100	134100 to 138100	Low, Middle, High	15MHz	Pi/2BPSK	1RB/ 0RB Offset
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	Pi/2BPSK	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_2A_n77C, DC_5A_n77C, DC_12A_n77C, DC_14A_n77C, DC_66A_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, DC_2A_n77C-HPUE, DC_5A_n77C-HPUE, DC_12A_n77C-HPUE, DC_14A_n77C-HPUE, DC_66A_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	Outer_ Full
A	OCCUPIED BANDWIDTH	647334 to 664666	647334 to 664666	Middle	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		647668 to 664332	647668 to 664332	Middle	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		648000 to 664000	648000 to 664000	Middle	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		648334 to 663666	648334 to 663666	Middle	50MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full

		648668 to 663332	648668 to 663332	Middle	60MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		649000 to 663000	649000 to 663000	Middle	70MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		649334 to 662666	649334 to 662666	Middle	80MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		649668 to 662332	649668 to 662332	Middle	90MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		650000 to 662000	650000 to 662000	Middle	100MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	647334 to 664666	647334 to 664666	Low	20MHz	Pi/2BPSK	1RB/ 0RB Offset Outer_ Full
				High	20MHz	Pi/2BPSK	1RB/ 50RB Offset Outer_ Full
		647668 to 664332	647668 to 664332	Low	30MHz	Pi/2BPSK	1RB/ 0RB Offset Outer_ Full
				High	30MHz	Pi/2BPSK	1RB/ 77RB Offset Outer_ Full
		648000 to 664000	648000 to 664000	Low	40MHz	Pi/2BPSK	1RB/ 0RB Offset Outer_ Full
				High	40MHz	Pi/2BPSK	1RB/ 105RB Offset Outer_ Full
		648334 to 663666	648334 to 663666	Low	50MHz	Pi/2BPSK	1RB/ 0RB Offset Outer_ Full
				High	50MHz	Pi/2BPSK	1RB/ 132RB Offset Outer_ Full
		648668 to 663332	648668 to 663332	Low	60MHz	Pi/2BPSK	1RB/ 0RB Offset Outer_ Full
				High	60MHz	Pi/2BPSK	1RB/ 161RB Offset Outer_ Full
		649000 to 663000	649000 to 663000	Low	70MHz	Pi/2BPSK	1RB/ 161RB Offset Outer_ Full
				High	70MHz	Pi/2BPSK	1RB/ 188RB Offset Outer_ Full
		649334 to 662666	649334 to 662666	Low	80MHz	Pi/2BPSK	1RB/ 0RB Offset Outer_ Full
				High	80MHz	Pi/2BPSK	1RB/ 216RB Offset Outer_ Full
		649668 to 662332	649668 to 662332	Low	90MHz	Pi/2BPSK	1RB/ 0RB Offset Outer_ Full
				High	90MHz	Pi/2BPSK	1RB/ 244RB Offset

		650000 to 662000	650000 to 662000	Low	100MHz	Pi/2BPSK	Outer_Full 1RB/ 0RB Offset
				High	100MHz	Pi/2BPSK	Outer_Full
							1RB/ 272RB Offset
							Outer_Full
A	CONDUCT ED EMISSION	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	Pi/2BPSK	1RB/ 0RB Offset
		647668 to 664332	647668 to 664332	Low, Middle, High	30MHz	Pi/2BPSK	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Low, Middle, High	40MHz	Pi/2BPSK	1RB/ 0RB Offset
		648334 to 663666	648334 to 663666	Low, Middle, High	50MHz	Pi/2BPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	Pi/2BPSK	1RB/ 0RB Offset
		649000 to 663000	649000 to 663000	Low, Middle, High	80MHz	Pi/2BPSK	1RB/ 0RB Offset
		649334 to 662666	649334 to 662666	Low, Middle, High	90MHz	Pi/2BPSK	1RB/ 0RB Offset
		649668 to 662332	649668 to 662332	Low, Middle, High	100MHz	Pi/2BPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	Pi/2BPSK	1RB/ 0RB Offset
		647668 to 664332	647668 to 664332	Low, Middle, High	30MHz	Pi/2BPSK	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Low, Middle, High	40MHz	Pi/2BPSK	1RB/ 0RB Offset
		648334 to 663666	648334 to 663666	Low, Middle, High	50MHz	Pi/2BPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	Pi/2BPSK	1RB/ 0RB Offset
		649000 to 663000	649000 to 663000	Low, Middle, High	70MHz	Pi/2BPSK	1RB/ 0RB Offset
		649334 to 662666	649334 to 662666	Low, Middle, High	80MHz	Pi/2BPSK	1RB/ 0RB Offset
		649668 to 662332	649668 to 662332	Low, Middle, High	90MHz	Pi/2BPSK	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	Pi/2BPSK	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. NR SA_N77C and other ENDC combine are covered by NR SA_N77C-HPUE, Because it is have higher output power , So the test data (expect EIRP) please refer to SA_N77C-HPUE.



Test Report No.: W7L-220214W001RF06

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



Test Report No.: W7L-220214W001RF06

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 determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

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);

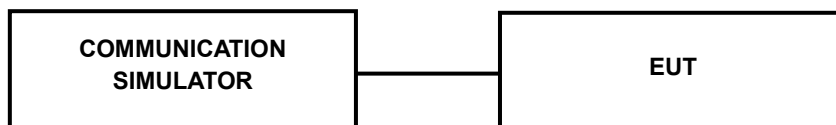
L_{C} = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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:
N66-LTE5**

BW	MCS Index	RB	RB Size	RB Offset	Low CH 342500	Mid CH 349000	High CH 355500	Max. Tune-up (dBm)
					Frequency 1712.5MHz	Frequency 1745MHz	Frequency 1777.5MHz	
5M	CP-OFDM QPSK	Outer	1	0	20.97	20.86	20.93	22
			1	24	20.80	20.68	20.68	22
			2	0	20.98	20.93	20.95	22
			2	23	20.80	20.67	20.72	22
			25	0	21.01	20.91	21.00	22
		Inner	1	1	23.68	23.59	23.56	24
			1	23	23.35	23.26	23.31	24
			13	6	23.38	23.31	23.31	24
	CP-OFDM 16QAM	Outer	1	0	20.71	20.57	20.67	22
			1	24	20.74	20.70	20.72	22
			2	0	20.89	20.75	20.85	22
			2	23	20.66	20.62	20.64	22
			25	0	21.00	20.89	20.96	22
		Inner	1	1	22.17	22.04	22.09	23
			1	23	21.81	21.71	21.80	23
			13	6	21.91	21.82	21.79	23
	CP-OFDM 64QAM	Outer	1	0	20.29	20.20	20.25	21
			1	24	20.26	20.15	20.22	21
			2	0	20.79	20.66	20.71	21
			2	23	20.50	20.40	20.49	21
			25	0	20.50	20.36	20.46	21
		Inner	1	1	20.44	20.40	20.42	21
			1	23	20.35	20.21	20.31	21
			13	6	20.38	20.34	20.36	21
	CP-OFDM 256QAM	Outer	1	0	17.18	17.07	17.14	18
			1	24	17.02	16.89	16.94	18
			2	0	17.55	17.45	17.54	18
			2	23	17.41	17.32	17.29	18
			25	0	17.47	17.36	17.35	18
		Inner	1	1	17.29	17.22	17.22	18
			1	23	17.06	16.99	16.99	18
			13	6	17.38	17.31	17.38	18

BW	MCS Index	RB	RB Size	RB Offset	Low CH 343000	Mid CH 349000	High CH 355000	Max. Tune-up (dBm)
					Frequency 1715MHz	Frequency 1745MHz	Frequency 1775MHz	
10M	CP-OFDM QPSK	Outer	1	0	20.99	20.90	20.87	22
			1	51	20.76	20.65	20.70	22
			2	0	21.03	20.90	20.97	22
			2	50	20.77	20.67	20.72	22
			52	0	21.05	20.91	21.00	22
		Inner	1	1	23.64	23.53	23.63	24
			1	50	23.34	23.30	23.32	24
			26	13	23.37	23.26	23.33	24
	CP-OFDM 16QAM	Outer	1	0	20.71	20.58	20.63	22
			1	51	20.74	20.73	20.75	22
			2	0	20.87	20.78	20.78	22
			2	50	20.66	20.65	20.67	22
			52	0	20.98	20.90	20.94	22
		Inner	1	1	22.17	22.03	22.13	23
			1	50	21.86	21.75	21.74	23
			26	13	21.88	21.81	21.81	23
	CP-OFDM 64QAM	Outer	1	0	20.34	20.27	20.27	21
			1	51	20.23	20.16	20.23	21
			2	0	20.80	20.71	20.71	21
			2	50	20.48	20.41	20.49	21
			52	0	20.51	20.40	20.44	21
		Inner	1	1	20.45	20.39	20.45	21
			1	50	20.33	20.24	20.27	21
			26	13	20.38	20.37	20.36	21
	CP-OFDM 256QAM	Outer	1	0	17.17	17.08	17.15	18
			1	51	16.98	16.94	16.94	18
			2	0	17.54	17.48	17.54	18
			2	50	17.34	17.32	17.32	18
			52	0	17.46	17.32	17.41	18
		Inner	1	1	17.25	17.19	17.20	18
			1	50	17.02	16.98	16.97	18
			26	13	17.39	17.28	17.38	18

BW	MCS Index	RB	RB Size	RB Offset	Low CH 343500	Mid CH 349000	High CH 354500	Max. Tune-up (dBm)
					Frequency 1717.5MHz	Frequency 1745MHz	Frequency 1772.5MHz	
15M	CP-OFDM QPSK	Outer	1	0	20.94	20.90	20.89	22
			1	78	20.74	20.68	20.74	22
			2	0	21.00	20.91	20.94	22
			2	77	20.74	20.73	20.72	22
			79	0	21.03	20.94	21.01	22
		Inner	1	1	23.63	23.59	23.59	24
			1	77	23.35	23.29	23.35	24
			39	19	23.32	23.30	23.30	24
	CP-OFDM 16QAM	Outer	1	0	20.71	20.57	20.66	22
			1	78	20.74	20.68	20.69	22
			2	0	20.85	20.81	20.80	22
			2	77	20.69	20.58	20.68	22
			79	0	20.99	20.90	20.93	22
		Inner	1	1	22.13	22.03	22.12	23
			1	77	21.86	21.77	21.74	23
			39	19	21.87	21.76	21.81	23
	CP-OFDM 64QAM	Outer	1	0	20.35	20.22	20.29	21
			1	78	20.24	20.14	20.19	21
			2	0	20.79	20.65	20.74	21
			2	77	20.51	20.40	20.50	21
			79	0	20.44	20.40	20.42	21
		Inner	1	1	20.49	20.38	20.45	21
			1	77	20.35	20.22	20.27	21
			39	19	20.38	20.37	20.39	21
	CP-OFDM 256QAM	Outer	1	0	17.17	17.08	17.08	18
			1	78	16.96	16.95	16.97	18
			2	0	17.56	17.48	17.52	18
			2	77	17.40	17.26	17.36	18
			79	0	17.47	17.36	17.35	18
		Inner	1	1	17.29	17.22	17.22	18
			1	77	17.06	16.99	16.99	18
			39	19	17.38	17.31	17.38	18

BW	MCS Index	RB	RB Size	RB Offset	Low CH 344000	Mid CH 349000	High CH 354000	Max. Tune-up (dBm)
					Frequency 1720MHz	Frequency 1745MHz	Frequency 1770MHz	
20M	CP-OFDM QPSK	Outer	1	0	20.95	20.85	20.90	22
			1	105	20.79	20.65	20.74	22
			2	0	20.99	20.88	20.98	22
			2	104	20.78	20.69	20.72	22
			106	0	20.99	20.98	20.97	22
		Inner	1	1	23.65	23.56	23.63	24
			1	104	23.36	23.32	23.32	24
			53	26	23.33	23.27	23.33	24
	CP-OFDM 16QAM	Outer	1	0	20.65	20.63	20.63	22
			1	105	20.80	20.66	20.75	22
			2	0	20.83	20.77	20.78	22
			2	104	20.68	20.64	20.63	22
			106	0	20.96	20.90	20.96	22
		Inner	1	1	22.13	22.04	22.09	23
			1	104	21.80	21.74	21.80	23
			53	26	21.84	21.82	21.81	23
	CP-OFDM 64QAM	Outer	1	0	20.28	20.27	20.29	21
			1	105	20.25	20.16	20.16	21
			2	0	20.73	20.72	20.74	21
			2	104	20.52	20.43	20.43	21
			106	0	20.46	20.42	20.44	21
		Inner	1	1	20.46	20.37	20.42	21
			1	104	20.30	20.24	20.30	21
			53	26	20.38	20.36	20.35	21
	CP-OFDM 256QAM	Outer	1	0	17.13	17.12	17.14	18
			1	105	17.00	16.91	16.91	18
			2	0	17.53	17.52	17.54	18
			2	104	17.37	17.29	17.33	18
			106	0	17.46	17.32	17.42	18
		Inner	1	1	17.25	17.21	17.23	18
			1	104	17.05	16.94	17.01	18
			53	26	17.42	17.29	17.34	18

BW	MCS Index	RB	RB Size	RB Offset	Low CH 345000	Mid CH 349000	High CH 353000	Max. Tune-up (dBm)
					Frequency 1725MHz	Frequency 1745MHz	Frequency 1765MHz	
30M	CP-OFDM QPSK	Outer	1	0	20.99	20.88	20.87	22
			1	159	20.77	20.70	20.70	22
			2	0	21.02	20.95	20.95	22
			2	158	20.76	20.69	20.76	22
			160	0	21.06	20.97	20.97	22
		Inner	1	1	23.61	23.54	23.62	24
			1	158	23.41	23.30	23.34	24
			80	40	23.37	23.31	23.29	24
	CP-OFDM 16QAM	Outer	1	0	20.69	20.60	20.66	22
			1	159	20.76	20.72	20.74	22
			2	0	20.89	20.75	20.85	22
			2	158	20.66	20.62	20.64	22
			160	0	21.00	20.89	20.96	22
		Inner	1	1	22.18	22.06	22.06	23
			1	158	21.81	21.76	21.78	23
			80	40	21.90	21.77	21.82	23
	CP-OFDM 64QAM	Outer	1	0	20.30	20.20	20.29	21
			1	159	20.28	20.19	20.16	21
			2	0	20.74	20.65	20.70	21
			2	158	20.54	20.47	20.47	21
			160	0	20.50	20.36	20.46	21
		Inner	1	1	20.44	20.40	20.42	21
			1	158	20.35	20.21	20.31	21
			80	40	20.38	20.34	20.36	21
	CP-OFDM 256QAM	Outer	1	0	17.18	17.07	17.14	18
			1	159	17.02	16.89	16.94	18
			2	0	17.55	17.45	17.54	18
			2	158	17.41	17.32	17.29	18
			160	0	17.41	17.32	17.37	18
		Inner	1	1	17.30	17.19	17.26	18
			1	158	17.06	16.93	16.98	18
			80	40	17.38	17.28	17.37	18

BW	MCS Index	RB	RB Size	RB Offset	Low CH 346000	Mid CH 349000	High CH 352000	Max. Tune-up (dBm)
					Frequency 1730MHz	Frequency 1745MHz	Frequency 1760MHz	
40M	CP-OFDM QPSK	Outer	1	0	21.00	20.92	20.95	22
			1	215	20.81	20.73	20.76	22
			2	0	21.04	20.96	20.99	22
			2	214	20.82	20.74	20.77	22
			216	0	21.07	20.99	21.02	22
		Inner	1	1	23.69	23.61	23.64	24
			1	214	23.42	23.34	23.37	24
			108	54	23.40	23.32	23.35	24
	CP-OFDM 16QAM	Outer	1	0	20.73	20.65	20.68	22
			1	215	20.82	20.74	20.77	22
			2	0	20.91	20.83	20.86	22
			2	214	20.74	20.66	20.69	22
			216	0	21.03	20.95	20.98	22
		Inner	1	1	22.19	22.11	22.14	23
			1	214	21.87	21.79	21.82	23
			108	54	21.92	21.84	21.87	23
	CP-OFDM 64QAM	Outer	1	0	20.36	20.28	20.31	21
			1	215	20.29	20.21	20.24	21
			2	0	20.81	20.73	20.76	21
			2	214	20.56	20.48	20.51	21
			216	0	20.52	20.44	20.47	21
		Inner	1	1	20.52	20.44	20.47	21
			1	214	20.37	20.29	20.32	21
			108	54	20.46	20.38	20.41	21
	CP-OFDM 256QAM	Outer	1	0	17.21	17.13	17.16	18
			1	215	17.04	16.96	16.99	18
			2	0	17.61	17.53	17.56	18
			2	214	17.42	17.34	17.37	18
			216	0	17.48	17.40	17.43	18
		Inner	1	1	17.33	17.25	17.28	18
			1	214	17.08	17.00	17.03	18
			108	54	17.44	17.36	17.39	18

BW	MCS Index	RB	RB Size	RB Offset	Low CH 342500	Mid CH 349000	High CH 355500	Max. Tune-up (dBm)
					Frequency 1712.5MHz	Frequency 1745MHz	Frequency 1777.5MHz	
5M	DFT-s-OFDM Pi/2 BPSK	Outer	1	0	23.47	23.32	23.42	24
			1	24	23.42	23.26	23.29	24
			2	0	23.53	23.44	23.49	24
			2	23	23.53	23.36	23.44	24
			25	0	23.41	23.27	23.39	24
		Inner	1	1	23.83	23.70	23.70	24
			1	23	23.70	23.57	23.65	24
			12	6	23.75	23.64	23.67	24
	DFT-s-OFDM QPSK	Outer	1	0	23.71	23.53	23.66	24
			1	24	23.61	23.53	23.58	24
			2	0	23.81	23.63	23.76	24
			2	23	23.67	23.59	23.64	24
			25	0	22.76	22.61	22.71	24
		Inner	1	1	23.78	23.61	23.69	24
			1	23	23.65	23.51	23.63	24
			12	6	23.75	23.62	23.62	24
	DFT-s-OFDM 16QAM	Outer	1	0	21.91	21.78	21.86	23
			1	24	21.87	21.72	21.82	23
			2	0	22.01	21.84	21.92	23
			2	23	21.70	21.56	21.68	23
			25	0	22.01	21.83	21.96	23
		Inner	1	1	23.27	23.19	23.24	24
			1	23	23.17	22.99	23.12	24
			12	6	22.89	22.81	22.86	24
	DFT-s-OFDM 64QAM	Outer	1	0	21.56	21.41	21.51	23
			1	24	21.50	21.33	21.41	23
			2	0	21.51	21.37	21.49	23
			2	23	21.38	21.25	21.25	23
			25	0	21.47	21.32	21.34	23
		Inner	1	1	21.59	21.48	21.51	23
			1	23	21.57	21.46	21.49	23
			12	6	21.34	21.23	21.33	23
	DFT-s-OFDM 256QAM	Outer	1	0	20.97	20.84	20.87	22
			1	24	20.80	20.69	20.80	22
			2	0	21.58	21.43	21.50	22
			2	23	21.41	21.31	21.32	22
			25	0	21.46	21.33	21.42	22
		Inner	1	1	20.96	20.88	20.93	22
			1	23	20.88	20.70	20.83	22
			12	6	21.35	21.27	21.32	22

BW	MCS Index	RB	RB Size	RB Offset	Low CH 343000	Mid CH 349000	High CH 355000	Max. Tune-up (dBm)
					Frequency 1715MHz	Frequency 1745MHz	Frequency 1775MHz	
10M	DFT-s-OFDM Pi/2 BPSK	Outer	1	0	23.49	23.36	23.36	24
			1	51	23.38	23.23	23.31	24
			2	0	23.58	23.41	23.51	24
			2	50	23.50	23.36	23.44	24
			50	0	23.45	23.27	23.39	24
		Inner	1	1	23.79	23.64	23.77	24
			1	50	23.69	23.61	23.66	24
			25	12	23.74	23.59	23.69	24
	DFT-s-OFDM QPSK	Outer	1	0	23.71	23.54	23.62	24
			1	51	23.61	23.56	23.61	24
			2	0	23.79	23.66	23.69	24
			2	50	23.67	23.62	23.67	24
			50	0	22.74	22.62	22.69	24
		Inner	1	1	23.78	23.60	23.73	24
			1	50	23.70	23.55	23.57	24
			25	12	23.72	23.61	23.64	24
	DFT-s-OFDM 16QAM	Outer	1	0	21.96	21.85	21.88	23
			1	51	21.84	21.73	21.83	23
			2	0	22.02	21.89	21.92	23
			2	50	21.68	21.57	21.68	23
			50	0	22.02	21.87	21.94	23
		Inner	1	1	23.28	23.18	23.27	24
			1	50	23.15	23.02	23.08	24
			25	12	22.89	22.84	22.86	24
	DFT-s-OFDM 64QAM	Outer	1	0	21.55	21.42	21.52	23
			1	51	21.46	21.38	21.41	23
			2	0	21.50	21.40	21.49	23
			2	50	21.31	21.25	21.28	23
			50	0	21.46	21.28	21.40	23
		Inner	1	1	21.55	21.45	21.49	23
			1	50	21.53	21.45	21.47	23
			25	12	21.35	21.20	21.33	23
	DFT-s-OFDM 256QAM	Outer	1	0	20.94	20.81	20.87	22
			1	51	20.82	20.68	20.80	22
			2	0	21.58	21.45	21.45	22
			2	50	21.39	21.24	21.32	22
			50	0	21.49	21.32	21.42	22
		Inner	1	1	20.97	20.83	20.91	22
			1	50	20.88	20.70	20.82	22
			25	12	21.38	21.23	21.36	22

BW	MCS Index	RB	RB Size	RB Offset	Low CH 343500	Mid CH 349000	High CH 354500	Max. Tune-up (dBm)
					Frequency 1717.5MHz	Frequency 1745MHz	Frequency 1772.5MHz	
15M	DFT-s-OFDM Pi/2 BPSK	Outer	1	0	23.44	23.36	23.38	24
			1	78	23.36	23.26	23.35	24
			2	0	23.55	23.42	23.48	24
			2	77	23.47	23.42	23.44	24
			75	0	23.43	23.30	23.40	24
		Inner	1	1	23.78	23.70	23.73	24
			1	77	23.70	23.60	23.69	24
			36	18	23.69	23.63	23.66	24
	DFT-s-OFDM QPSK	Outer	1	0	23.71	23.53	23.65	24
			1	78	23.61	23.51	23.55	24
			2	0	23.77	23.69	23.71	24
			2	77	23.70	23.55	23.68	24
			75	0	22.75	22.62	22.68	24
		Inner	1	1	23.74	23.60	23.72	24
			1	77	23.70	23.57	23.57	24
			36	18	23.71	23.56	23.64	24
	DFT-s-OFDM 16QAM	Outer	1	0	21.97	21.80	21.90	23
			1	78	21.85	21.71	21.79	23
			2	0	22.01	21.83	21.95	23
			2	77	21.71	21.56	21.69	23
			75	0	21.95	21.87	21.92	23
		Inner	1	1	23.32	23.17	23.27	24
			1	77	23.17	23.00	23.08	24
			36	18	22.89	22.84	22.89	24
	DFT-s-OFDM 64QAM	Outer	1	0	21.55	21.42	21.45	23
			1	78	21.44	21.39	21.44	23
			2	0	21.52	21.40	21.47	23
			2	77	21.37	21.19	21.32	23
			75	0	21.47	21.32	21.34	23
		Inner	1	1	21.59	21.48	21.51	23
			1	77	21.57	21.46	21.49	23
			36	18	21.34	21.23	21.33	23
	DFT-s-OFDM 256QAM	Outer	1	0	20.97	20.84	20.87	22
			1	78	20.80	20.69	20.80	22
			2	0	21.58	21.43	21.50	22
			2	77	21.41	21.31	21.32	22
			75	0	21.46	21.33	21.42	22
		Inner	1	1	20.96	20.88	20.93	22
			1	77	20.87	20.72	20.82	22
			36	18	21.42	21.26	21.29	22

BW	MCS Index	RB	RB Size	RB Offset	Low CH 344000	Mid CH 349000	High CH 354000	Max. Tune-up (dBm)
					Frequency 1720MHz	Frequency 1745MHz	Frequency 1770MHz	
20M	DFT-s-OFDM Pi/2 BPSK	Outer	1	0	23.45	23.31	23.39	24
			1	105	23.41	23.23	23.35	24
			2	0	23.54	23.39	23.52	24
			2	104	23.51	23.38	23.44	24
			100	0	23.39	23.34	23.36	24
		Inner	1	1	23.80	23.67	23.77	24
			1	104	23.71	23.63	23.66	24
			50	25	23.70	23.60	23.69	24
	DFT-s-OFDM QPSK	Outer	1	0	23.65	23.59	23.62	24
			1	105	23.67	23.49	23.61	24
			2	0	23.75	23.65	23.69	24
			2	104	23.69	23.61	23.63	24
			100	0	22.72	22.62	22.71	24
		Inner	1	1	23.74	23.61	23.69	24
			1	104	23.64	23.54	23.63	24
			50	25	23.68	23.62	23.64	24
	DFT-s-OFDM 16QAM	Outer	1	0	21.90	21.85	21.90	23
			1	105	21.86	21.73	21.76	23
			2	0	21.95	21.90	21.95	23
			2	104	21.72	21.59	21.62	23
			100	0	21.97	21.89	21.94	23
		Inner	1	1	23.29	23.16	23.24	24
			1	104	23.12	23.02	23.11	24
			50	25	22.89	22.83	22.85	24
	DFT-s-OFDM 64QAM	Outer	1	0	21.51	21.46	21.51	23
			1	105	21.48	21.35	21.38	23
			2	0	21.49	21.44	21.49	23
			2	104	21.34	21.22	21.29	23
			100	0	21.46	21.28	21.41	23
		Inner	1	1	21.55	21.47	21.52	23
			1	104	21.56	21.41	21.51	23
			50	25	21.38	21.21	21.29	23
	DFT-s-OFDM 256QAM	Outer	1	0	20.92	20.78	20.90	22
			1	105	20.87	20.74	20.74	22
			2	0	21.54	21.39	21.47	22
			2	104	21.43	21.26	21.36	22
			100	0	21.45	21.36	21.37	22
		Inner	1	1	21.00	20.82	20.95	22
			1	104	20.82	20.74	20.79	22
			50	25	21.41	21.23	21.36	22