

FCC REPORT

(5G NR)

Applicant: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD

Address of Applicant: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN CHINA

Equipment Under Test (EUT)

Product Name: Smart Phone

Model No.: WP15

Trade mark: OUKITEL

FCC ID: 2ANMU-WP15

Applicable standards: FCC CFR Title 47 Part 2

FCC CFR Title 47 Part 27 Subpart M

Date of sample receipt: 17 Jun., 2021

Date of Test: 17 Jun., to 28 Jul., 2021

Date of report issued: 25 Aug., 2021

Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang

Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful, and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

2. Version

Version No.	Date	Description
00	28 Jul., 2021	Original
01	25 Aug., 2021	Update page 5

Tested by:

Mike.ou
Test Engineer

Date:

25 Aug., 2021

Reviewed by:

Winner Zhang
Project Engineer

Date:

25 Aug., 2021

3. Contents

	Page
1. COVER PAGE.....	1
2. VERSION.....	2
3. CONTENTS.....	3
4. TEST SUMMARY.....	4
5. GENERAL INFORMATION.....	5
5.1 CLIENT INFORMATION.....	5
5.2 GENERAL DESCRIPTION OF E.U.T.....	5
5.3 TEST ENVIRONMENT AND MODE, AND TEST SAMPLES PLANS	6
5.4 DESCRIPTION OF SUPPORT UNITS.....	6
5.5 MEASUREMENT UNCERTAINTY.....	6
5.6 RELATED SUBMITTAL(S) / GRANT (S)	6
5.7 ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD	7
5.8 LABORATORY FACILITY	7
5.9 LABORATORY LOCATION	7
5.10 TEST INSTRUMENTS LIST	8
6. TEST RESULTS.....	9
6.1 CONDUCTED OUTPUT POWER, ERP AND EIRP	9
6.2 PEAK-TO-AVERAGE RATIO	10
6.3 OCCUPY BANDWIDTH	11
6.4 OUT OF BAND EMISSION AT ANTENNA TERMINALS	12
6.5 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT.....	13
6.6 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT.....	17
6.7 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT	18
7. TEST SETUP PHOTO.....	19
8. EUT CONSTRUCTIONAL DETAILS.....	20

4. Test Summary

SA (n41), NSA EN_DC(DC_4A_n41A)

Test Items	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Passed (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 27.50 (h)(2)	Section 1 of Appendix A – 5G NR
Peak-to-Average Ratio	Part 27.50(d)(5)	Section 3 of Appendix A – 5G NR
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 27.53(m)	Section 4 of Appendix A – 5G NR
Out of band emission at antenna terminals	Part 2.1053 Part 27.53(m)	Section 5, 6 of Appendix A – 5G NR
Field strength of spurious radiation	Part 27.53(m)	Pass
Frequency stability vs. temperature	Part 27.54 Part 2.1055(a)(1)(b)	Section 2 of Appendix A – 5G NR
Frequency stability vs. voltage	Part 27.54 Part 2.1055(d)(2)	Section 2 of Appendix A – 5G NR
Remark:		
1. Pass: The EUT complies with the essential requirements in the standard. 2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB(Fundamental Frequency below 1GHz)/1.0dB(Fundamental Frequency above 1GHz) (provided by the customer).		
Test Method:	ANSI/TIA-603-E-2016 ANSI C63.26-2015	

5. General Information

5.1 Client Information

Applicant:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN CHINA
Manufacturer:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN CHINA

5.2 General Description of E.U.T.

Product Name:	Smart Phone
Model No.:	WP15
Operation Frequency range:	5G NR n41: TX: 2496MHz~2690MHz RX: 2496MHz~2690MHz
Modulation type:	DFT_BPSK, DFT_QPSK, DFT_16-QAM, DFT_64QAM, DFT_256-QAM cp_QPSK, cp_16-QAM, cp_64QAM, cp_256-QAM
SCS support:	30KHz
5G NR Network mode:	5G Network SA: NR n41, NSA(EN-DC): DC_4A_n41A
Channel Bandwidths:	10MHz, 15MHz, 20MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz
Antenna type:	Internal Antenna
Antenna gain:	N41: 0.86 dBi(declare by Applicant)
Power supply:	Rechargeable Li-ion Polymer Battery DC3.87V, 15600mAh
AC adapter:	Model: HJ-FC017K7-US Input: AC100-240V, 50/60Hz 0.6A Output: DC 5.0V, 2.0A or DC 7.0V, 2.0A, or DC 9.0V, 2.0A or DC 12V, 1.5A
Test Sample Condition:	The applicant provided engineering samples for staying in continuously transmitting for testing.

Operation Frequency List:

Band	SCS	Bandwidth	Channel Number/ Frequency		
n41	30KHz	10 MHz	Low	500202	2501.010 MHz
			Middle	518598	2592.990 MHz
			High	537000	2685.000 MHz
		15 MHz	Low	500700	2503.500 MHz
			Middle	518598	2592.990 MHz
			High	536496	2682.480 MHz
		20 MHz	Low	501204	2506.020 MHz
			Middle	518598	2592.990 MHz
			High	535998	2679.990 MHz
		40 MHz	Low	503202	2516.010 MHz
			Middle	518598	2592.990 MHz
			High	534000	2670.000 MHz
		50 MHz	Low	504204	2521.020 MHz
			Middle	518598	2592.990 MHz
			High	532998	2664.990 MHz
		60 MHz	Low	505200	2526.000 MHz
			Middle	518598	2592.990 MHz
			High	531996	2659.980 MHz
		80 MHz	Low	507204	2536.020 MHz
			Middle	518598	2592.990 MHz
			High	529998	2649.990 MHz
		90 MHz	Low	508200	2541.000 MHz
			Middle	518598	2592.990 MHz
			High	528996	2644.980 MHz
		100 MHz	Low	509202	2546.010 MHz
			Middle	518598	2592.990 MHz
			High	528000	2640.000 MHz

5.3 Test environment and mode, and test samples plans

Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.87Vdc, Extreme: Low 3.5Vdc, High 4.45Vdc
Test mode:	
Single Carrier mode	Keep the EUT communication with simulated station in Single carrier mode
Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report.	

5.4 Description of Support Units

Test Equipment	Manufacturer	Model No.	Serial No.
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY60192444

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.
--

5.7 Additions to, deviations, or exclusions from the method

No

5.8 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://www.ccis-cb.com>

5.10 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2020	07-21-2021
				07-22-2021	07-21-2022
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2021	03-06-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-18-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2021	03-06-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2021	06-17-2022
Test Software	Tonscend	TS+	Version: 3.0.0.1		
Pre-amplifier	HP	8447D	2944A09358	03-07-2021	03-06-2022
Pre-amplifier	CD	PAP-1G18	11804	03-07-2021	03-06-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2021	03-04-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2021	03-04-2022
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-05-2021	03-04-2022
Signal Generator	Rohde & Schwarz	SMR20	1008100050	03-05-2021	03-04-2022
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2021	03-06-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2021	03-06-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2021	03-06-2022
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY60192444	11-27-2020	11-26-2021

Conducted method:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240215	11-27-2020	11-26-2021
MXG Vector Signal Generator	KEYSIGHT	N5182B	MY59100991	11-27-2020	11-26-2021
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY59100792	11-27-2020	11-26-2021
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY60192444	11-27-2020	11-26-2021
RF Control Box	MWRF-test	MW400-RFCB	MW201015JYT	N/A	N/A
Automatic Filter Box	MWRF-test	MW400-SFCB1	MW201018JYT-1	N/A	N/A
Automatic Filter Box	MWRF-test	MW400-SFCB2	MW201018JYT-2	N/A	N/A
Test Software	MWRFTEST	MTS 8200 NR	Version: 2.0.0.0		
DC Power Supply	KEYSIGHT	E3642A	MY60266189	11-27-2020	11-26-2021
Temperature Humidity Chamber	Zhongzhi	CZ-C-150D	ZH16491	09-23-2020	09-22-2021

6. Test results

6.1 Conducted Output Power, ERP and EIRP

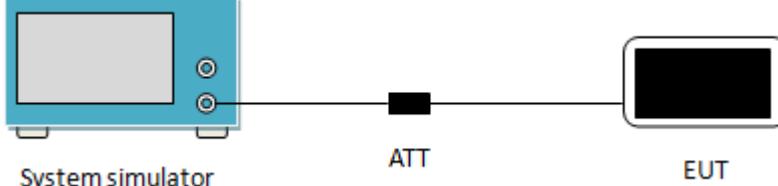
Test Requirement:	Part 27.50 (h)(2)
Limit:	5G NR n41: 2W
Test Setup:	 <p>System simulator ATT EUT</p>
Test Procedure:	The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the E7515B. Transmitter output power was read off in dBm.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data: Refer to Section 1 of Appendix A –5G NR

6.2 Peak-to-Average Ratio

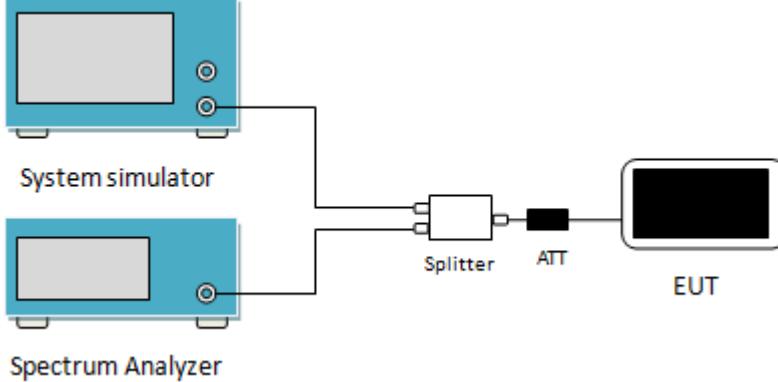
Measurement Data: Refer to Section 3 of Appendix A –5G NR

6.3 Occupy Bandwidth

Test Requirement:	Part 27.53(m)
Test Setup:	
Test Procedure:	<ol style="list-style-type: none">1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer2. RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW.3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data: Refer to Section 4 of Appendix A –5G NR

6.4 Out of band emission at antenna terminals

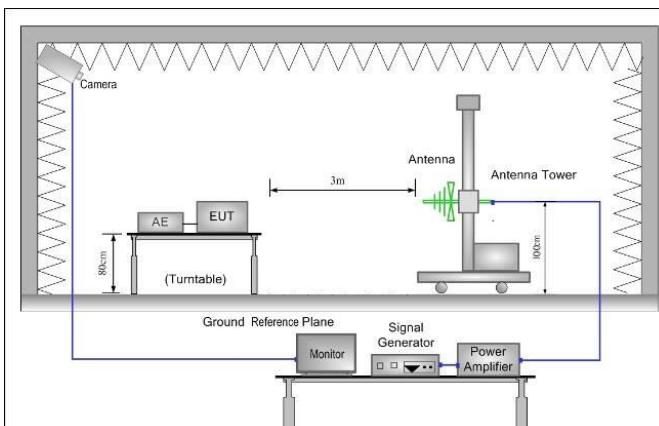
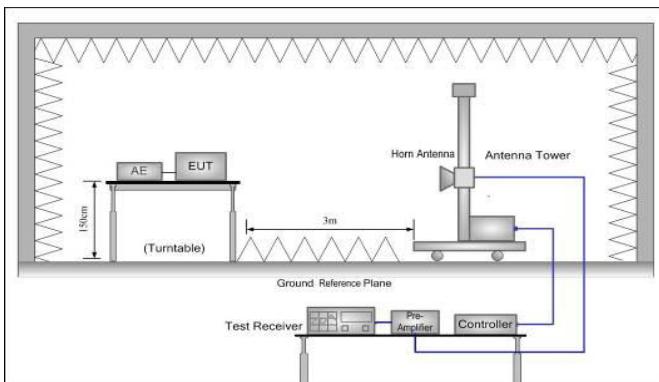
Test Requirement:	Part 27.53(m)
Limit:	5G NR n41: For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
Test Setup:	 <p>System simulator</p> <p>Spectrum Analyzer</p> <p>Splitter</p> <p>ATT</p> <p>EUT</p>
Test Procedure:	<ol style="list-style-type: none"> The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. For the out of band: RBW =1 KHz, VBW=3 KHz, Start=9 KHz, Stop= 150 KHz; RBW =10 KHz, VBW=30 KHz, Start=150 KHz, Stop= 30 MHz; RBW =100 KHz, VBW=300 KHz, Start=30MHz, Stop= 1GHz; RBW =1 MHz, VBW=3 MHz, Start=1 GHz, Stop= 10th harmonic; Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	Pre-scan all RB Size and offset, and found the RB Size and offset of worst case, so the report shows only the worst case test data.

Measurement Data:

Band edge emission: Refer to Section 5 of Appendix A –5G NR

Spurious emission: Refer to Section 6 of Appendix A –5G NR

6.5 Field strength of spurious radiation measurement

Test Requirement:	Part 27.53(m)
Limit:	<p>5G NR n41:</p> <p>For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.</p>
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p> 
Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. <p>ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable</p>

	Loss (dB)
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

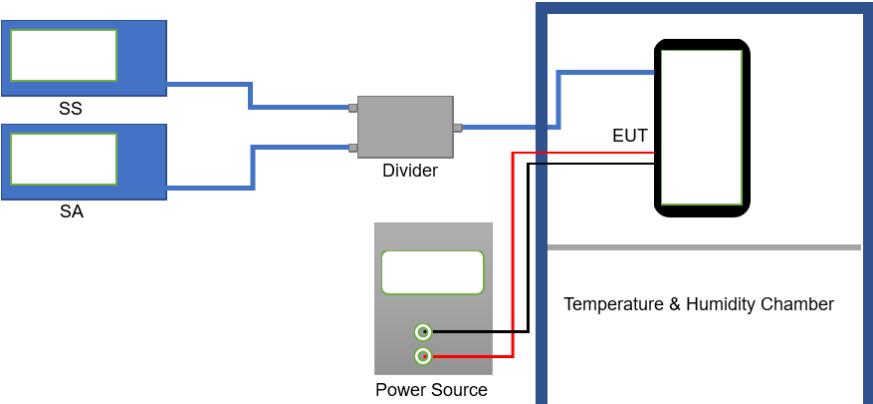
Measurement Data:
5G NR SA n41:

n41(100MHz) (Edge_1RB_Left, DFT_BPSK)						
Lowest channel						
Frequency (MHz)	Level at antenna terminals (dBm)	Factor (dB)	Spurious Emission level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
5092.02	-47.81	4.56	-43.25	-25.00	18.25	Vertical
7638.03	-49.35	13.14	-36.21	-25.00	11.21	Vertical
10184.04	-49.75	16.93	-32.82	-25.00	7.82	Vertical
5092.02	-47.58	4.56	-43.02	-25.00	18.02	Horizontal
7638.03	-49.64	13.14	-36.50	-25.00	11.50	Horizontal
10184.04	-50.31	16.93	-33.38	-25.00	8.38	Horizontal
Middle channel						
Frequency (MHz)	Level at antenna terminals (dBm)	Factor (dB)	Spurious Emission level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
5185.98	-47.46	4.55	-42.91	-25.00	17.91	Vertical
7778.97	-49.73	13.58	-36.15	-25.00	11.15	Vertical
10371.96	-50.13	17.44	-32.69	-25.00	7.69	Vertical
5185.98	-47.26	4.55	-42.71	-25.00	17.71	Horizontal
7778.97	-49.59	13.58	-36.01	-25.00	11.01	Horizontal
10371.96	-50.32	17.44	-32.88	-25.00	7.88	Horizontal
Highest channel						
Frequency (MHz)	Level at antenna terminals (dBm)	Factor (dB)	Spurious Emission level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
5280.00	-48.14	4.62	-43.52	-25.00	18.52	Vertical
7920.00	-49.16	13.24	-35.92	-25.00	10.92	Vertical
10560.00	-49.81	18.40	-31.41	-25.00	6.41	Vertical
5280.00	-48.04	4.62	-43.42	-25.00	18.42	Horizontal
7920.00	-50.14	13.24	-36.90	-25.00	11.90	Horizontal
10560.00	-49.96	18.40	-31.56	-25.00	6.56	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						
2. Pre-Scan all modulation and all Bandwidth, And the report only reflects the worst mode						

5G NR NSA EN DC (DC_4A_n41A):

n41(100MHz) (Edge_1RB_Left, DFT_BPSK)						
Lowest channel						
Frequency (MHz)	Level at antenna terminals (dBm)	Factor (dB)	Spurious Emission level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
5092.02	-47.65	4.56	-43.09	-25.00	18.09	Vertical
7638.03	-49.13	13.29	-35.84	-25.00	10.84	Vertical
10184.04	-50.24	16.98	-33.26	-25.00	8.26	Vertical
5092.02	-47.99	4.56	-43.43	-25.00	18.43	Horizontal
7638.03	-49.40	13.29	-36.11	-25.00	11.11	Horizontal
10184.04	-50.15	16.98	-33.17	-25.00	8.17	Horizontal
Middle channel						
Frequency (MHz)	Level at antenna terminals (dBm)	Factor (dB)	Spurious Emission level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
5185.98	-47.85	4.55	-43.30	-25.00	18.30	Vertical
7778.97	-49.38	13.58	-35.80	-25.00	10.80	Vertical
10371.96	-50.53	17.44	-33.09	-25.00	8.09	Vertical
5185.98	-47.19	4.55	-42.64	-25.00	17.64	Horizontal
7778.97	-49.99	13.58	-36.41	-25.00	11.41	Horizontal
10371.96	-50.50	17.44	-33.06	-25.00	8.06	Horizontal
Highest channel						
Frequency (MHz)	Level at antenna terminals (dBm)	Factor (dB)	Spurious Emission level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
5280.00	-48.02	4.62	-43.40	-25.00	18.40	Vertical
7920.00	-49.37	13.18	-36.19	-25.00	11.19	Vertical
10560.00	-50.31	18.27	-32.04	-25.00	7.04	Vertical
5280.00	-47.59	4.62	-42.97	-25.00	17.97	Horizontal
7920.00	-49.78	13.18	-36.60	-25.00	11.60	Horizontal
10560.00	-50.07	18.27	-31.80	-25.00	6.80	Horizontal
<i>Remark:</i>						
1. The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						
2. Pre-Scan al modulation and all Bandwidth, And the report only reflects the worst mode						

6.6 Frequency stability V.S. Temperature measurement

Test Requirement:	Part 27.54, Part 2.1055(d)(2)
Limit:	Within authorized band for 5G NR n41
Test setup:	
Test procedure:	<ol style="list-style-type: none"> 1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data: Refer to Section 2 of Appendix A –5G NR

6.7 Frequency stability V.S. Voltage measurement

Test Requirement:	Part 27.54, Part 2.1055(d)(2)
Limit:	Within authorized band for 5G NR n41
Test setup:	<p>The diagram illustrates the test setup. A Power Source (labeled 'Power Source' with a red line) is connected to a Divider. The output of the Divider is connected to an EUT (Equipment Under Test, shown as a black rectangle) and to a Temperature & Humidity Chamber (a large blue rectangle). Inside the chamber, there is a Spectrum Analyzer (SA, shown as a blue rectangle) and a Signal Source (SS, shown as a blue rectangle). The SA and SS are connected to the Divider. A red line also connects the Power Source to the chamber.</p>
Test procedure:	<ol style="list-style-type: none"> 1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data: Refer to Section 2 of Appendix A –5G NR

8 EUT Constructional Details

Reference to the test report No. JYTSZB-R12-2101118

-----End of report-----