FCC RF Test Report

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME: Motorola

MODEL NAME : XT2451-1, XT2451-2

FCC ID : IHDT56AP9

STANDARD : 47 CFR Part 2, and 90(S)

CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)

TEST DATE(S) : Mar. 04, 2024 ~ Apr. 02, 2024

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia





Report No.: FG420703M

Sporton International Inc. (ShenZhen)

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People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG420703M	Rev. 01	Initial issue of report	Apr. 12, 2024

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark	
3.1	§2.1046	Conducted Output Power	_	Report only	-	
3.2	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	_	Report only	-	
3.3	§2.1051 §90.691			PASS	-	
3.4	§2.1051 §90.691	Emission masks – Out of band emissions	< 43+10log ₁₀ (P[Watts])	PASS	-	
3.5	§2.1053 §90.691	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 26.48 dB at 10122.36 MHz	
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-	

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or
 in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of
 non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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General Description 1

1.1 Applicant

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2451-1, XT2451-2
FCC ID	IHDT56AP9
IMEI Code	Conducted: 350431590015098/350431590015106
IIIVEI Code	Radiation: 350431590015650/350431590015668
HW Version	DVT2
SW Version	U3UX34.16
EUT Stage	Identical Prototype

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Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. The two model names are only for market segment, no other difference

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard							
Tx Frequency	814 ~ 824 MHz						
Rx Frequency	859 ~ 869 MHz						
SCS / Bandwidth	15kHz : 5MHz / 10MHz / 15MHz / 20MHz						
Antenna Gain	<ant. 0="">:</ant.> -2.64 dBi						
Antenna Gain	<ant. 1="">:</ant.> -3.87 dBi						
	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM						
Type of Modulation	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM /						
	256QAM						

Note:

- 1. Only maximum conducted Power of Ant.0 is shown in the report.
- 2. 5G NR n26 support SA mode and NSA mode. According to the maximum power between SA and NSA mode, SA covers NSA mode

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1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum Conducted Power and Emission Designator

ţ	5G NR n26	PI/2 BPS	K/QPSK	16QAM/64QAM/256QAM			
BW (MHz)	Frequency Range (MHz)	Maximum Emission Conducted power (W) (99%OBW)		Maximum Conducted power (W)	Emission Designator (99%OBW)		
5	816.5 ~ 821.5	0.2178	4M47G7D	0.1667	4M48W7D		
10	819	0.2089	9M27G7D	0.1683	9M29W7D		
15	821.5	0.2046	14M1G7D	0.1648	14M1W7D		
20	824	0.2183	18M9G7D	0.1652	18M9W7D		

Note: All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Site

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)									
Test Site Location	Shenzhen, 518055 Peop TEL: +86-755-86379589	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595								
	Sporton Site No.	FCC Designation No.	FCC Test Firm							
Test Site No.	oporton one no.	1 00 Designation No.	Registration No.							
	TH01-SZ	CN1256	421272							

Test Firm	Sporton International Inc. (Sporton International Inc. (ShenZhen)							
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985								
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.						
	03CH04-SZ	CN1256	421272						

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1.8 Test Software

ltem	Site	Manufacture	Name	Version	
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24	

1.9 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

1.10 Specification of Accessory

Accessories Information									
Battery 1	Brand Name	Motorola(ATL)	Model Name	QR10					
Battery 2	Brand Name	Motorola(ATL)	Model Name	QR30					
USB Cable 1	Brand Name	Motorola(SAIBAO)	Model Name	SC18D86731					
USB Cable 2	Brand Name	Motorola(Luxshare)	Model Name	SC18E08103					

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz. (Z Plane)

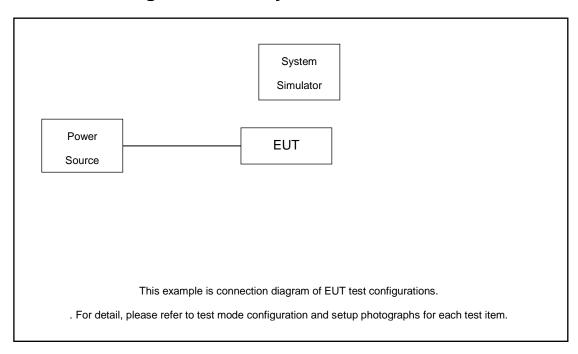
Tool Homo	Dand	Bandwidth (MHz)				Modulation				RB#			Test Channel			
Test Items	Band	5	10	15	20	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	М	Н
Max. Output Power	n26	٧	٧	v	v	v	v	v	v	v	٧		v	v	٧	٧
26dB and 99% Bandwidth	n26	٧	v	v	v		٧	٧	v	v			٧		٧	
Emission masks	n26	>				v	٧				٧		>	>		v
In-band emissions	1120		v		v	v	>				٧		>		>	
Emission masks – Out of band	- n26	>				v	٧				>			٧	>	v
emissions			v		v	v	v				٧				٧	
Frequency Stability	n26				v		٧						٧		>	
Radiated Spurious Emission								٧								
1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. 5G n26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP ov 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies. 4. Frequency Stability: Normal Voltage = 3.88V; Low Voltage = 3.40V.; High Voltage = 4.53V																

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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8001C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

The following shows an offset computation example with RF cable loss 7.5 dB.

Example:

 $Offset(dB) = RF \ cable \ loss(dB).$

= 7.5(dB)

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2.5 Frequency List of Low/Middle/High Channels

5G NR n26 Channel and Frequency List									
BW [MHz]	/ [MHz] Channel/Frequency(MHz) Lowest Middle High								
10	Channel	-	163800	-					
	Frequency	-	819	-					
E	Channel	163300	163800	164300					
5	Frequency	816.5	819	821.5					

5G NR n26 Cross-rule Channel and Frequency List								
BW [MHz]	Channel/Frequency(MHz)	-	Middle	-				
00	Channel	-	164800	-				
20	Frequency	-	824	-				
15	Channel	-	164300	-				
	Frequency	-	821.5	-				

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3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

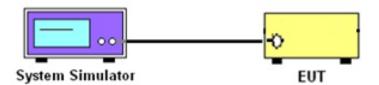
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through the system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

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3.2 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.2.1 Description of (Occupied) Bandwidth Limitations Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

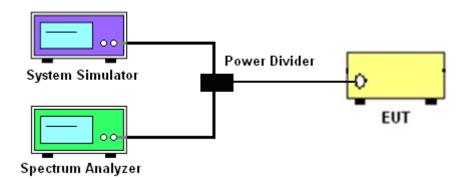
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.

3.2.4 Test Setup



3.2.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A.

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3.3 Emissions Mask Measurement

3.3.1 Description of Emissions Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a):

- (a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log₁₀(f/6.1) decibels or 50 + 10 Log₁₀(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log₁₀(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

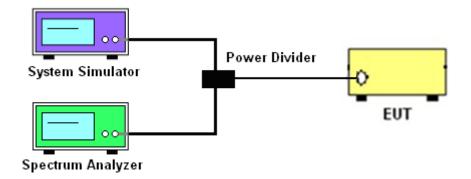
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The emissions mask of low and high channels for the highest RF powers were measured.
- The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and the RBW correction factor 10log (1% of OBW/measured RBW)(dB) was compensated, if required.
- 4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

3.3.4 Test Setup



3.3.5 Test Result (Plots) of Conducted Emissions Mask

Please refer to Appendix A.

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3.4 Emissions Mask - Out Of Band Emissions Measurement

3.4.1 Description of Conducted Emissions Out of band emissions measurement

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by out of the authorized bandwidth at least 43 + 10 log (P) dB. It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

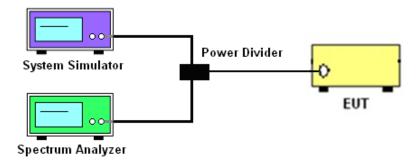
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

3.4.4 Test Setup



3.4.5 Test Result (Plots) of Conducted Emission

Please refer to Appendix A.

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3.5 Field Strength of Spurious Radiation Measurement

3.5.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43+10log₁₀(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

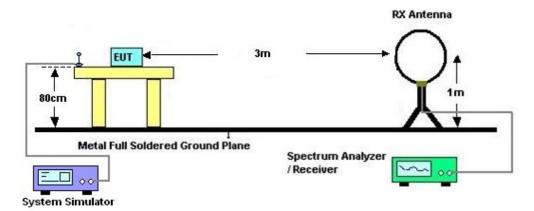
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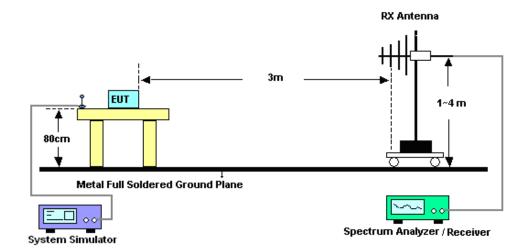
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3.5.4 Test Setup

For radiated test from 30MHz



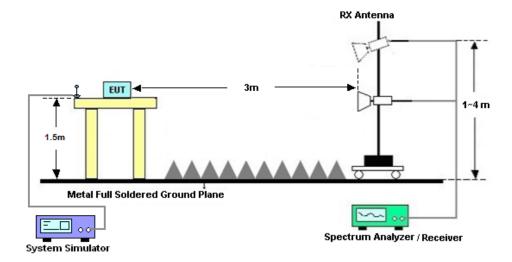
For radiated test from 30MHz to 1GHz



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For radiated test above 1GHz



3.5.5 Test Result of Field Strength of Spurious Radiated

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

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3.6 Frequency Stability Measurement

3.6.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency according to FCC Part 90.213.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

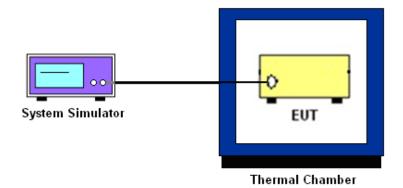
3.6.3 Test Procedures for Temperature Variation

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three
 hours. Power was applied and the maximum change in frequency was recorded within one
 minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.6.4 Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
- The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
- 3. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the
- 4. battery operating end point, which shall be specified by the manufacturer.
- 5. The variation in frequency was measured for the worst case.

3.6.5 Test Setup



3.6.6 Test Result of Temperature Variation

Please refer to Appendix A.

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Report No.: FG420703M

Report Template No.: BU5-FWLTE Version 2.0

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY5515021 3	10Hz~44GHz	Jul. 07, 2023	Mar. 04, 2024~ Mar. 20, 2024	Jul. 06, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.0 077	0.4GHz~26.5G Hz	Dec. 25, 2023	Mar. 04, 2024~ Mar. 20, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangrou p	LP-150U	H201408180 3	-40~+150°C	Jul. 05, 2023	Mar. 04, 2024~ Mar. 20, 2024	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	Mar. 30, 2024~ Apr. 02, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY5515021 3	10Hz~44GHz	Jul. 07, 2023	Mar. 30, 2024~ Apr. 02, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Mar. 30, 2024~ Apr. 02, 2024	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 14, 2023	Mar. 30, 2024~ Apr. 02, 2024	May 13, 2024	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120 D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Mar. 30, 2024~ Apr. 02, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBE CK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	Mar. 30, 2024~ Apr. 02, 2024	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Mar. 30, 2024~ Apr. 02, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30- 10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Mar. 30, 2024~ Apr. 02, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Mar. 30, 2024~ Apr. 02, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY5728013 6	500MHz~26.5G Hz	Aug. 21, 2023	Mar. 30, 2024~ Apr. 02, 2024	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	Mar. 30, 2024~ Apr. 02, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Mar. 30, 2024~ Apr. 02, 2024	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Mar. 30, 2024~ Apr. 02, 2024	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required

Sporton International Inc. (ShenZhen)

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5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty				
Conducted Spurious Emission & Bandedge	±1.34 dB				
Occupied Channel Bandwidth	±0.012 MHz				
Conducted Power	±1.34 dB				
Peak to Average Ratio	±1.34 dB				
Frequency Stability	±1.3 Hz				

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	2.8 dB
Confidence of 95% (U = 2Uc(y))	2.0 UB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.1 dB
Confidence of 95% (U = 2Uc(y))	3.1 uB

<u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of	3.9 dB
Confidence of 95% (U = 2Uc(y))	3.9 dB

----- THE END -----

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Appendix A. Test Results of Conducted Test

Test Engineer :	Khan Zhen	Temperature :	24~26°C
		Relative Humidity :	50~53%

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Software Version: 23.06.1602

FR1 N26(Ant0)

Transmitter Conducted Output Power

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	Conducted Power(W)
26	15	5	163300	816.5	DFT-s-OFDM QPSK	1@1	23.38	0.2178
26	15	5	163300	816.5	DFT-s-OFDM 16 QAM	1@1	22.22	0.1667
26	15	5	163800	819	DFT-s-OFDM QPSK	1@1	23.35	0.2163
26	15	5	163800	819	DFT-s-OFDM 16 QAM	1@1	22.15	0.1641
26	15	5	164300	821.5	DFT-s-OFDM QPSK	1@1	23.14	0.2061
26	15	5	164300	821.5	DFT-s-OFDM 16 QAM	1@1	22.21	0.1663
26	15	10	163800	819	DFT-s-OFDM QPSK	1@1	23.2	0.2089
26	15	10	163800	819	DFT-s-OFDM 16 QAM	1@1	22.26	0.1683
26	15	15	164300	821.5	DFT-s-OFDM QPSK	1@1	23.11	0.2046
26	15	15	164300	821.5	DFT-s-OFDM 16 QAM	1@1	22.17	0.1648
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	50@25	23.39	0.2183
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	1@1	23.13	0.2056
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	1@104	23.05	0.2018
26	15	20	164800	824	DFT-s-OFDM QPSK	50@25	23.16	0.2070
26	15	20	164800	824	DFT-s-OFDM QPSK	1@1	23.14	0.2061
26	15	20	164800	824	DFT-s-OFDM QPSK	1@104	22.98	0.1986
26	15	20	164800	824	DFT-s-OFDM 16 QAM	50@25	22.03	0.1596
26	15	20	164800	824	DFT-s-OFDM 16 QAM	1@1	22.18	0.1652
26	15	20	164800	824	DFT-s-OFDM 16 QAM	1@104	22.04	0.1600
26	15	20	164800	824	DFT-s-OFDM 64 QAM	50@25	20.69	0.1172
26	15	20	164800	824	DFT-s-OFDM 64 QAM	1@1	20.74	0.1186
26	15	20	164800	824	DFT-s-OFDM 64 QAM	1@104	20.67	0.1167
26	15	20	164800	824	DFT-s-OFDM 256 QAM	50@25	18.64	0.0731
26	15	20	164800	824	DFT-s-OFDM 256 QAM	1@1	18.34	0.0682
26	15	20	164800	824	DFT-s-OFDM 256 QAM	1@104	18.33	0.0681
26	15	20	164800	824	CP-OFDM QPSK	53@26	21.59	0.1442
26	15	20	164800	824	CP-OFDM QPSK	1@1	21.45	0.1396
26	15	20	164800	824	CP-OFDM QPSK	1@104	21.36	0.1368
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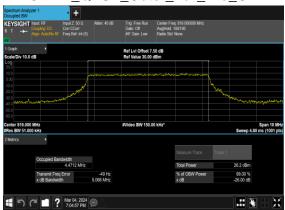
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0035	PASS	NV
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0023	PASS	LV
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0057	PASS	HV
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0029	PASS	-30 ℃
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0052	PASS	-20 ℃
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0053	PASS	-10℃
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0022	PASS	0℃
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0057	PASS	10℃
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0035	PASS	20℃
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0051	PASS	30℃
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0058	PASS	40℃
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0045	PASS	50℃

Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
26	15	5	163800	819.0	CP-OFDM QPSK	25@0	4.4712	5.068
26	15	5	163800	819.0	CP-OFDM 16 QAM	25@0	4.4755	5.149
26	15	5	163800	819.0	CP-OFDM 64 QAM	25@0	4.4631	5.083
26	15	5	163800	819.0	CP-OFDM 256 QAM	25@0	4.4723	5.012
26	15	10	163800	819.0	CP-OFDM QPSK	52@0	9.2721	10.03
26	15	10	163800	819.0	CP-OFDM 16 QAM	52@0	9.2878	9.937
26	15	10	163800	819.0	CP-OFDM 64 QAM	52@0	9.2649	9.872
26	15	10	163800	819.0	CP-OFDM 256 QAM	52@0	9.2763	9.892
26	15	15	164300	821.5	CP-OFDM QPSK	79@0	14.083	14.76
26	15	15	164300	821.5	CP-OFDM 16 QAM	79@0	14.075	14.86
26	15	15	164300	821.5	CP-OFDM 64 QAM	79@0	14.073	14.74
26	15	15	164300	821.5	CP-OFDM 256 QAM	79@0	14.056	14.77
26	15	20	164800	824.0	CP-OFDM QPSK	106@0	18.91	19.85
26	15	20	164800	824.0	CP-OFDM 16 QAM	106@0	18.903	19.87
26	15	20	164800	824.0	CP-OFDM 64 QAM	106@0	18.91	19.7
26	15	20	164800	824.0	CP-OFDM 256 QAM	106@0	18.919	19.88

N26(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N26(5M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



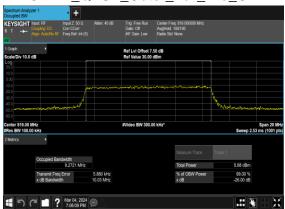
N26(5M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N26(5M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N26(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



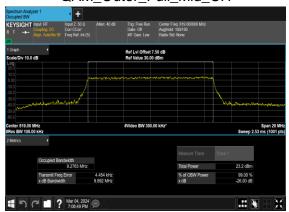
N26(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N26(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



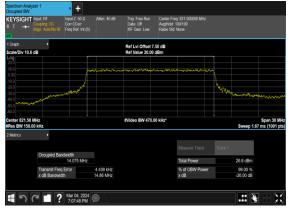
N26(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



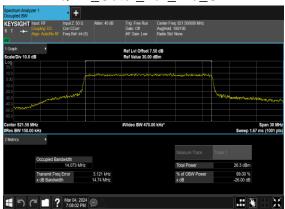
N26(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N26(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



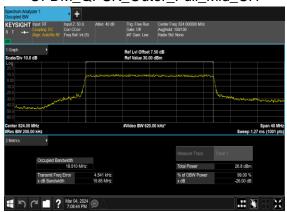
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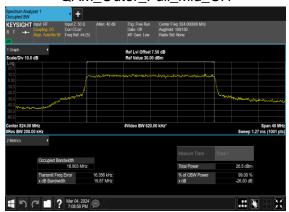
N26(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N26(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N26(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N26(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N26(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



Conducted Spurious Emissions

Oomaa	iotou o	purious		0110				
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
26	15	5	163300	816.5	DFT-s- OFDM BPSK	1@0	see graph	
26	15	5	163300	816.5	DFT-s- OFDM BPSK	1@0	see graph	PASS
26	15	5	163300	816.5	DFT-s- OFDM QPSK	1@0	see graph	
26	15	5	163300	816.5	DFT-s- OFDM QPSK	1@0	see graph	PASS
26	15	5	163800	819.0	DFT-s- OFDM BPSK	1@0	see graph	
26	15	5	163800	819.0	DFT-s- OFDM BPSK	1@0	see graph	PASS
26	15	5	163800	819.0	DFT-s- OFDM QPSK	1@0	see graph	
26	15	5	163800	819.0	DFT-s- OFDM QPSK	1@0	see graph	PASS
26	15	5	164300	821.5	DFT-s- OFDM BPSK	1@0	see graph	
26	15	5	164300	821.5	DFT-s- OFDM BPSK	1@0	see graph	PASS
26	15	5	164300	821.5	DFT-s- OFDM QPSK	1@0	see graph	
26	15	5	164300	821.5	DFT-s- OFDM QPSK	1@0	see graph	PASS
26	15	10	163800	819.0	DFT-s- OFDM BPSK	1@0	see graph	
26	15	10	163800	819.0	DFT-s- OFDM BPSK	1@0	see graph	PASS
26	15	10	163800	819.0	DFT-s- OFDM QPSK	1@0	see graph	
26	15	10	163800	819.0	DFT-s- OFDM QPSK	1@0	see graph	PASS
26	15	20	164800	824.0	DFT-s- OFDM BPSK	1@0	see graph	
26	15	20	164800	824.0	DFT-s- OFDM BPSK	1@0	see graph	PASS
26	15	20	164800	824.0	DFT-s- OFDM QPSK	1@0	see graph	
26	15	20	164800	824.0	DFT-s- OFDM QPSK	1@0	see graph	PASS

N26(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N26(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N26(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N26(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N26(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N26(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N26(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N26(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N26(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



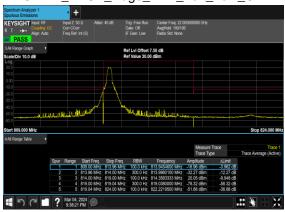
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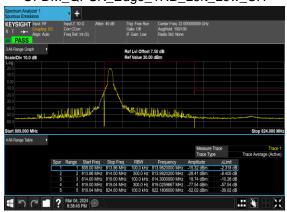
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
26	15	5	163300	816.5	DFT-s- OFDM BPSK	1@0	see graph	PASS
26	15	5	163300	816.5	DFT-s- OFDM QPSK	1@0	see graph	PASS
26	15	5	163300	816.5	DFT-s- OFDM BPSK	25@0	see graph	PASS
26	15	5	163300	816.5	DFT-s- OFDM QPSK	25@0	see graph	PASS
26	15	5	164300	821.5	DFT-s- OFDM BPSK	1@24	see graph	PASS
26	15	5	164300	821.5	DFT-s- OFDM QPSK	1@24	see graph	PASS
26	15	5	164300	821.5	DFT-s- OFDM BPSK	25@0	see graph	PASS
26	15	5	164300	821.5	DFT-s- OFDM QPSK	25@0	see graph	PASS
26	15	10	163800	819.0	DFT-s- OFDM BPSK	1@0	see graph	PASS
26	15	10	163800	819.0	DFT-s- OFDM QPSK	1@0	see graph	PASS
26	15	10	163800	819.0	DFT-s- OFDM BPSK	1@51	see graph	PASS
26	15	10	163800	819.0	DFT-s- OFDM QPSK	1@51	see graph	PASS
26	15	10	163800	819.0	DFT-s- OFDM BPSK	50@0	see graph	PASS
26	15	10	163800	819.0	DFT-s- OFDM QPSK	50@0	see graph	PASS
26	15	20	164800	824.0	DFT-s- OFDM BPSK	1@0	see graph	PASS
26	15	20	164800	824.0	DFT-s- OFDM QPSK	1@0	see graph	PASS
26	15	20	164800	824.0	DFT-s- OFDM BPSK	1@105	see graph	PASS
26	15	20	164800	824.0	DFT-s- OFDM QPSK	1@105	see graph	PASS
26	15	20	164800	824.0	DFT-s- OFDM BPSK	100@0	see graph	PASS
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	see graph	PASS

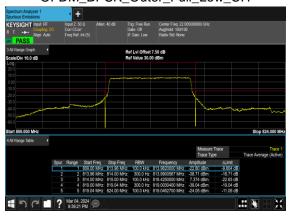
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N26(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



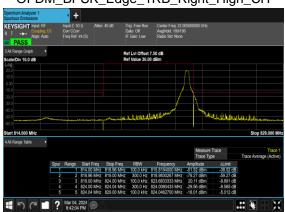
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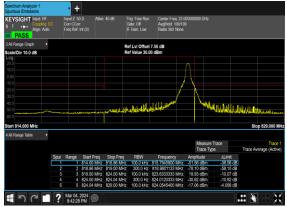
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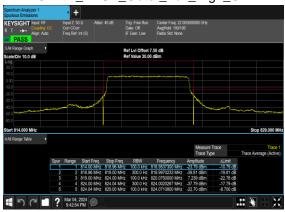
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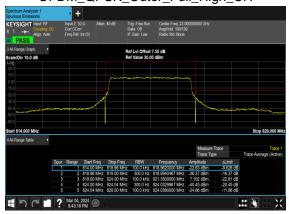
N26(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N26(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



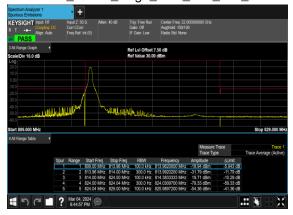
N26(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



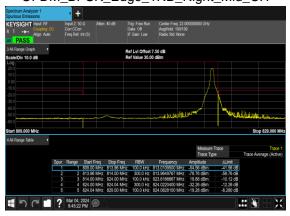
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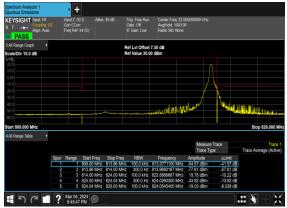
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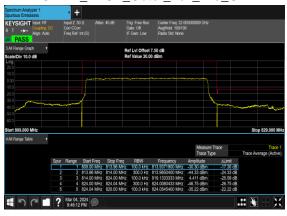
N26(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



N26(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



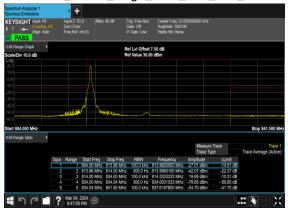
N26(10M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



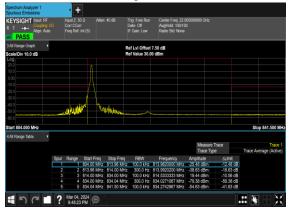
N26(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



N26(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N26(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



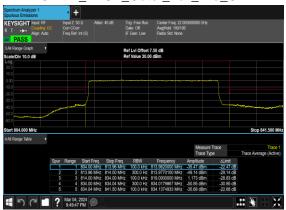
N26(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



N26(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N26(20M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N26(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Oingahang Ha	Temperature :	22~25°C	
rest Engineer .	Qingsheng He	Relative Humidity :	48~52%	

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

SA n26 / 20MHz / QPSK / Ant. 0										
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
Middle	1630	-65.58	-13	-52.58	-73.88	-68.83	4.00	9.40	Н	
	2445	-63.98	-13	-50.98	-75.72	-67.55	4.88	10.60	Н	
	3260	-61.31	-13	-48.31	-75.90	-66.24	5.52	12.60	Н	
	1630	-65.74	-13	-52.74	-73.97	-68.99	4.00	9.40	V	
	2445	-64.04	-13	-51.04	-75.74	-67.61	4.88	10.60	V	
	3260	-61.49	-13	-48.49	-75.91	-66.42	5.52	12.60	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ENDC_7A_N26/ 20MHz / QPSK / Ant. (2+0)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	5061.18	-58.90	-25	-33.90	-78.37	-64.46	7.14	12.70	Н
1 TE D7	7591.77	-55.29	-25	-30.29	-79.74	-58.59	8.30	11.60	Н
LTE B7 BW 20MHz	10122.36	-51.48	-25	-26.48	-80.39	-53.00	10.48	12.00	Н
Middle	5061.18	-58.92	-25	-33.92	-78.26	-64.48	7.14	12.70	V
Middle	7591.77	-55.19	-25	-30.19	-80.14	-58.49	8.30	11.60	V
	10122.36	-52.77	-25	-27.77	-80.37	-54.29	10.48	12.00	V
	1630	-65.52	-13	-52.52	-73.82	-68.77	4.00	9.40	Н
NIDOO	2445	-63.85	-13	-50.85	-75.59	-67.42	4.88	10.60	Н
NR26 BW 20MHz Middle	3260	-61.42	-13	-48.42	-76.01	-66.35	5.52	12.60	Н
	1630	-65.89	-13	-52.89	-74.12	-69.14	4.00	9.40	V
	2445	-63.58	-13	-50.58	-75.28	-67.15	4.88	10.60	V
	3260	-61.26	-13	-48.26	-75.68	-66.19	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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