

FCC RF Test Report

APPLICANT	:	Rolling Wireless S.a r.l.
EQUIPMENT	:	5G Module
BRAND NAME	:	Rolling Wireless
MODEL NAME	:	RW350R-GL
FCC ID	:	2AX2URW350RGL
STANDARD	:	47 CFR Part 2, and 90(S)
CLASSIFICATION	:	PCS Licensed Transmitter (PCB)
TEST DATE(S)	:	Apr. 02, 2024 ~ May 20, 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



Sporton International Inc. (ShenZhen) 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG430728O	Rev. 01	Initial issue of report	Jun. 13, 2024



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	Occupied Bandwidth and		Report only					
3.2	§90.209	26dB Bandwidth		Report only	-				
3.3	§2.1051	Emission masks –	< 50+10log ₁₀ (P[Watts])	PASS					
5.5	§90.691	In-band emissions	$< 30 + 1000 g_{10}(F[walls])$	FASS	-				
3.4	§2.1051	Emission masks –	< 43+10log ₁₀ (P[Watts])	PASS					
5.4	§90.691	Out of band emissions	< 43+1010910(1 [Wall3])	1700	-				
3.5	§2.1053 §90.691	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 44.62 dB at 3258.000 MHz				
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage		PASS	-				
Conformity	Assessment Con	dition:							
in acco									

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.



1 General Description

1.1 Applicant

Rolling Wireless S.a r.l.

8-10, rue Mathias Hardt 1717, Luxembourg

1.2 Manufacturer

Rolling Wireless S.a r.l.

8-10, rue Mathias Hardt 1717, Luxembourg

1.3 Feature of Equipment Under Test

Product Feature						
Equipment	5G Module					
Brand Name	Rolling Wireless					
Model Name RW350R-GL						
FCC ID	2AX2URW350RGL					
	Conducted: 356413950001763					
IMEI Code	Radiation:					
	356413950000682 for Sample 1					
	356413950000526 for Sample 2					
HW Version	V1.1					
SW Version	81601.0000.00.29.24.13					
EUT Stage	Identical Prototype					

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.4	Product	Specification	of Equipment	Under Test
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Product Specification subjective to this standard						
Tx Frequency	5G NR n26 : 814 MHz ~ 824 MHz					
Rx Frequency	5G NR n26 : 859 MHz ~ 869 MHz					
SCS / Bandwidth	15kHz : 5G NR n26 : 5MHz / 10MHz / 15MHz(cross-rule) / 20MHz(cross-rule) 30kHz: 5G NR n26 : 10MHz / 15MHz(cross-rule) / 20MHz(cross-rule)					
Antenn Type	External Monopole Antenna or External PIFA Antenna					
Antenna Gain	5G NR n26 : 3.0 dBi					
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM					

Remark:

- 1. The device has two optional antennas, they are same antenna gain, RSE pretest the two antennas, choose worst antenna to perform final test and recorded in the report.
- 2. There are two samples under test, sample 1 is 1st source and sample 2 is 2nd source, the detailed differences could be referred to the RW350R-GL_Operational Description of Product Equality Declaration which is exhibit separately. According to the differences, sample 1 perform full test, sample 2 verify conducted power and found less than sample 1, and sample 2 additional verify the worst case of RSE.
- 3. 5G NR n26 supports SA mode only.
- 4. 5G NR n26 supports SCS 15kHz and SCS 30kHz. According to the maximum power, SCS 15kHz covers SCS 30kHz.

1.5 Modification of EUT

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

1.6 Maximum Conducted Power and Emission Designator

5G NI	R n26 –SCS 15K	PI/2 BPSI	K / QPSK	16QAM / 64QAM / 256QAM			
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)		
5	816.5 ~ 821.5	0.2070	4M46G7D	0.1503	4M47W7D		
10	819	0.1995	9M28G7D	0.1483	9M27W7D		
15	821.5	0.2037	14M1G7D	0.1500	14M1W7D		
20	824	0.2075	18M9G7D	0.1641	18M9W7D		

Note: All modulations have been tested, 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	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								
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.						
	TH01-SZ	421272							
Test Firm	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.	TEL: +86-755-86066985 Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.						

1.8 Test Software

tem	Site	Manufacture Name		Version	
1.	03CH03-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:

- 1. 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.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

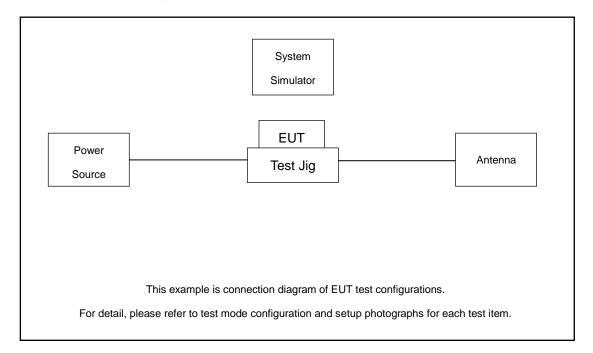
During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Toot Home	Dand	Ba	ndwid	dth (M	Hz)		М	odulatio	n			RB #		Test	Char	nnel
Test Items	Band	5	10	15	20	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	м	н
Max. Output Power	n26	v	v	v	v	v	v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	n26	v	v	v	v		v	v	v	v			v		v	
Emission masks	n26	v				v	v				v		v	v		v
In-band emissions	120		v		v	v	v				v		v		v	
Emission masks – Out of band	n26	v				v	v				v			v	×	v
emissions	1120		v		v	v	v				v				v	
Frequency Stability	n26				v		v						v		v	
Radiated Spurious Emission	n26						Wors	st Case						v	v	v
Note	2. T 3. 50 1: w 4. 50 re	 The mark "-" means that this bandwidth is not supported. 5G n26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies. 5G NR n26 overlaps the entire frequency range of 5G NR n18. Therefore, the test results provided in this report covers 5G NR n18 and the portion of 5G NR n26 subject to Part 90S. 														

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



2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

ltem	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	Antenna	N/A	N/A	N/A	N/A	N/A
4.	Adapter	N/A	N/A	N/A	N/A	N/A
5.	Test Jig	N/A	N/A	N/A	N/A	N/A

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)



2.5 Frequency List of Low/Middle/High Channels

	5G NR n26 Channel and Frequency List for SCS 15K & 30K											
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest								
20	Channel	-	164800	-								
20	Frequency	-	824	-								
45	Channel	-	164300	-								
15	Frequency	-	821.5	-								
10	Channel	-	163800	-								
10	Frequency	-	819	-								
5	Channel	163300	163800	164300								
D	Frequency	816.5	819	821.5								

Note: SCS 30K does not support 5M BW, the 15M & 20M BW are cross-rule Part 90S+22H.



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.



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.

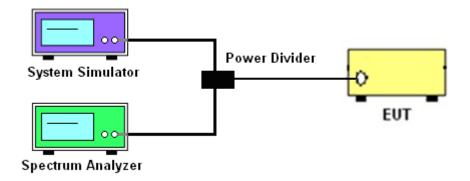
3.2.2 Measuring Instruments

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.
- 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.



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

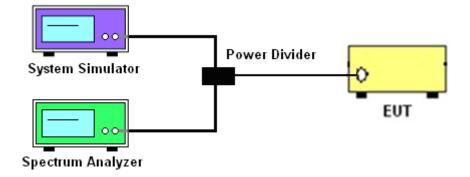
The measuring equipment is listed in the section 4 of this test report.

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.



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 10^{th} harmonic.

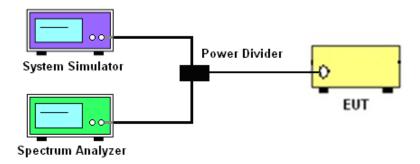
3.4.2 Measuring Instruments

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.
- 6. 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 $43+10\log_{10}(P[Watts])$ 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.

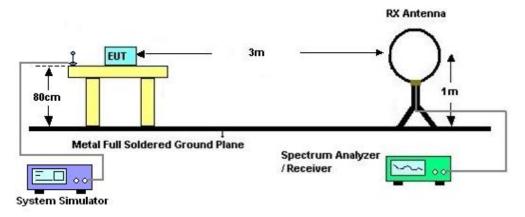
3.5.3 Test Procedures

- 1. 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.
- 5. 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)

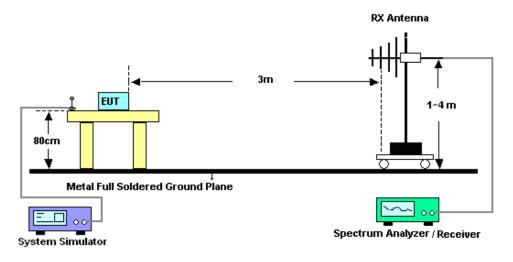


3.5.4 Test Setup

For radiated test from 30MHz

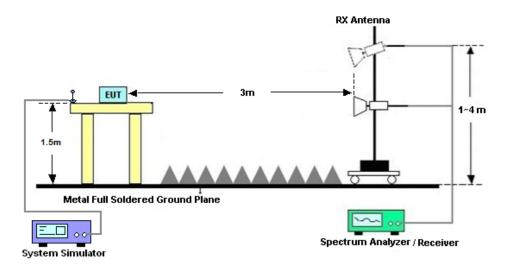


For radiated test from 30MHz to 1GHz





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.



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 $\pm 0.00025\%$ (± 2.5 ppm) 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

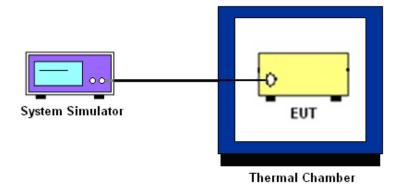
- 1. The EUT was set up in the thermal chamber and connected with the base station.
- 2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature 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.
- 2. 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.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 10, 2023	Apr. 02, 2024	Apr. 09, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.0 077	0.4GHz~26.5G Hz	Dec. 25, 2023	Apr. 02, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangrou p	LP-150U	H201408180 3	-40~+150°C	Jul. 05, 2023	Apr. 02, 2024	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY5445008 3	20Hz~8.4GHz	Apr. 09, 2024	Apr. 11, 2024~ May 20, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY5515024 6	10Hz~44GHz;	Apr. 09, 2024	Apr. 11, 2024~ May 20, 2024	Apr. 08, 2025	Radiation (03CH03-SZ
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Apr. 11, 2024~ May 20, 2024	Jun. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	Apr. 11, 2024~ May 20, 2024	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120 D	9120D-1355	1GHz~18GHz	Apr. 09, 2024	Apr. 11, 2024~ May 20, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Apr. 11, 2024~ May 20, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Apr. 11, 2024~ May 20, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Apr. 11, 2024~ May 20, 2024	Jul. 06, 2024	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY3950130 2	500MHz~26.5G Hz	Dec. 27, 2023	Apr. 11, 2024~ May 20, 2024	Dec. 26, 2024	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	6160100027 29	N/A	Oct. 18, 2023	Apr. 11, 2024~ May 20, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 11, 2024~ May 20, 2024	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 11, 2024~ May 20, 2024	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required



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
Frequency Stability	±1.3 Hz

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

Measuring Uncertainty for a Level of	3.0 dB
Confidence of 95% (U = 2Uc(y))	5.0 dB

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

Measuring Uncertainty for a Level of	
Confidence of 95% (U = 2Uc(y))	3.6 dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	3.8 dB
Confidence of 95% (U = 2Uc(y))	3.0 UD

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



Appendix A. Test Results of Conducted Test

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

FR1 N26-SCS15K

Transmitter Conducted Output Power And ERP, (G_T - L_C)=3dBi

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP (dBm)	ERP (W)
26	15	5	163300	816.5	DFT-s-OFDM QPSK	1@1	23.16	24.01	0.2518
26	15	5	163300	816.5	DFT-s-OFDM 16 QAM	1@1	21.77	22.62	0.1828
26	15	5	163800	819	DFT-s-OFDM QPSK	1@1	23.07	23.92	0.2466
26	15	5	163800	819	DFT-s-OFDM 16 QAM	1@1	21.75	22.6	0.1820
26	15	5	164300	821.5	DFT-s-OFDM QPSK	1@1	23.01	23.86	0.2432
26	15	5	164300	821.5	DFT-s-OFDM 16 QAM	1@1	21.72	22.57	0.1807
26	15	10	163800	819	DFT-s-OFDM QPSK	1@1	23	23.85	0.2427
26	15	10	163800	819	DFT-s-OFDM 16 QAM	1@1	21.71	22.56	0.1803
26	15	15	164300	821.5	DFT-s-OFDM QPSK	1@1	23.09	23.94	0.2477
26	15	15	164300	821.5	DFT-s-OFDM 16 QAM	1@1	21.76	22.61	0.1824
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	50@25	23.17	24.02	0.2523
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	1@1	23.09	23.94	0.2477
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	1@104	23.01	23.86	0.2432
26	15	20	164800	824	DFT-s-OFDM QPSK	50@25	23.12	23.97	0.2495
26	15	20	164800	824	DFT-s-OFDM QPSK	1@1	23.04	23.89	0.2449
26	15	20	164800	824	DFT-s-OFDM QPSK	1@104	22.82	23.67	0.2328
26	15	20	164800	824	DFT-s-OFDM 16 QAM	50@25	22.15	23	0.1995
26	15	20	164800	824	DFT-s-OFDM 16 QAM	1@1	21.7	22.55	0.1799
26	15	20	164800	824	DFT-s-OFDM 16 QAM	1@104	21.61	22.46	0.1762
26	15	20	164800	824	DFT-s-OFDM 64 QAM	50@25	20.63	21.48	0.1406
26	15	20	164800	824	DFT-s-OFDM 64 QAM	1@1	20.62	21.47	0.1403
26	15	20	164800	824	DFT-s-OFDM 64 QAM	1@104	20.5	21.35	0.1365
26	15	20	164800	824	DFT-s-OFDM 256 QAM	50@25	18.65	19.5	0.0891
26	15	20	164800	824	DFT-s-OFDM 256 QAM	1@1	18.42	19.27	0.0845
26	15	20	164800	824	DFT-s-OFDM 256 QAM	1@104	18.32	19.17	0.0826
26	15	20	164800	824	CP-OFDM QPSK	53@26	21.64	22.49	0.1774
26	15	20	164800	824	CP-OFDM QPSK	1@1	21.48	22.33	0.1710
26	15	20	164800	824	CP-OFDM QPSK	1@104	21.45	22.3	0.1698

FR1 N26-SCS30K

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	ERP (dBm)	ERP(W)
26	30	10	172800	819	DFT-s-OFDM QPSK	1@1	23.05	23.9	0.2455
26	30	10	172800	819	DFT-s-OFDM 16 QAM	1@1	22.1	22.95	0.1972
26	30	15	173300	821.5	DFT-s-OFDM QPSK	1@1	23.02	23.87	0.2438
26	30	15	173300	821.5	DFT-s-OFDM 16 QAM	1@1	22.02	22.87	0.1936
26	30	20	173800	824	DFT-s-OFDM PI/2 BPSK	25@12	23.09	23.94	0.2477
26	30	20	173800	824	DFT-s-OFDM PI/2 BPSK	1@1	23.01	23.86	0.2432
26	30	20	173800	824	DFT-s-OFDM PI/2 BPSK	1@49	22.87	23.72	0.2355
26	30	20	173800	824	DFT-s-OFDM QPSK	25@12	23.11	23.96	0.2489
26	30	20	173800	824	DFT-s-OFDM QPSK	1@1	22.93	23.78	0.2388
26	30	20	173800	824	DFT-s-OFDM QPSK	1@49	22.8	23.65	0.2317
26	30	20	173800	824	DFT-s-OFDM 16 QAM	25@12	22.16	23.01	0.2000
26	30	20	173800	824	DFT-s-OFDM 16 QAM	1@1	21.94	22.79	0.1901
26	30	20	173800	824	DFT-s-OFDM 16 QAM	1@49	21.8	22.65	0.1841
26	30	20	173800	824	DFT-s-OFDM 64 QAM	25@12	20.71	21.56	0.1432
26	30	20	173800	824	DFT-s-OFDM 64 QAM	1@1	20.35	21.2	0.1318
26	30	20	173800	824	DFT-s-OFDM 64 QAM	1@49	20.2	21.05	0.1274
26	30	20	173800	824	DFT-s-OFDM 256 QAM	25@12	18.69	19.54	0.0899
26	30	20	173800	824	DFT-s-OFDM 256 QAM	1@1	18.31	19.16	0.0824
26	30	20	173800	824	DFT-s-OFDM 256 QAM	1@49	18.15	19	0.0794
26	30	20	173800	824	CP-OFDM QPSK	25@12	21.71	22.56	0.1803
26	30	20	173800	824	CP-OFDM QPSK	1@1	21.48	22.33	0.1710
26	30	20	173800	824	CP-OFDM QPSK	1@49	21.34	22.19	0.1656

Transmitter Conducted Output Power And ERP, (G_T - L_C)=3dBi

FR1 N26-SCS15K

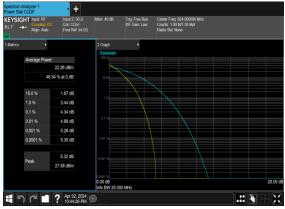
Frequency Stability

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	0.0069	PASS	NV
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0045	PASS	LV
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0066	PASS	HV
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0045	PASS	-30 ℃
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0041	PASS	-20 ℃
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0022	PASS	-10 ℃
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0055	PASS	0 °C
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0059	PASS	10 ℃
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0069	PASS	20 ℃
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0047	PASS	30 ℃
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0034	PASS	40 °C
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	0.0065	PASS	50 ℃

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
26	15	20	164800	824.0	DFT-s- OFDM PI/2 BPSK	100@0	4.34	13	PASS
26	15	20	164800	824.0	DFT-s- OFDM QPSK	100@0	5.61	13	PASS

N26(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

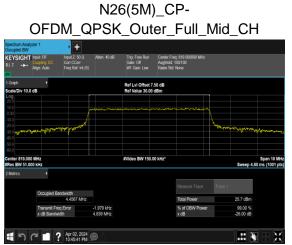


N26(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



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	4.4567	4.839
26	15	5	163800	819.0	CP-OFDM 16 QAM	25@0	4.4597	4.783
26	15	5	163800	819.0	CP-OFDM 64 QAM	25@0	4.4667	4.777
26	15	5	163800	819.0	CP-OFDM 256 QAM	25@0	4.4609	4.782
26	15	10	163800	819.0	CP-OFDM QPSK	52@0	9.2774	9.74
26	15	10	163800	819.0	CP-OFDM 16 QAM	52@0	9.2593	9.821
26	15	10	163800	819.0	CP-OFDM 64 QAM	52@0	9.2685	9.76
26	15	10	163800	819.0	CP-OFDM 256 QAM	52@0	9.2611	9.71
26	15	15	164300	821.5	CP-OFDM QPSK	79@0	14.074	14.77
26	15	15	164300	821.5	CP-OFDM 16 QAM	79@0	14.089	14.7
26	15	15	164300	821.5	CP-OFDM 64 QAM	79@0	14.088	14.64
26	15	15	164300	821.5	CP-OFDM 256 QAM	79@0	14.09	14.74
26	15	20	164800	824.0	CP-OFDM QPSK	106@0	18.9	19.88
26	15	20	164800	824.0	CP-OFDM 16 QAM	106@0	18.886	19.82
26	15	20	164800	824.0	CP-OFDM 64 QAM	106@0	18.852	19.68
26	15	20	164800	824.0	CP-OFDM 256 QAM	106@0	18.861	19.66



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

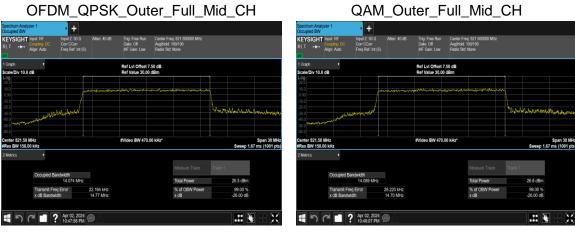


N26(15M)_CP-

N26(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N26(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

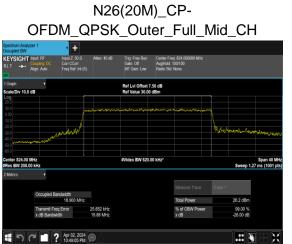


N26(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N26(15M)_CP-OFDM_256 QAM_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



NR	SCS	Bandwidth	Arfcn	Freq	Modulation	RB	Result	Verdict
Band	(kHz)	(MHz)		(MHz)				
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

Conducted Spurious Emissions



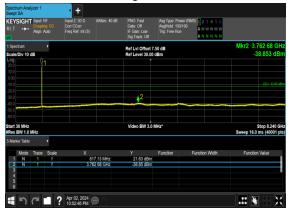
N26(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



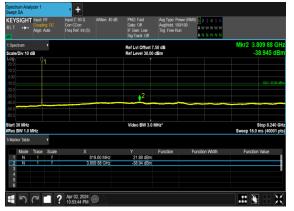
N26(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



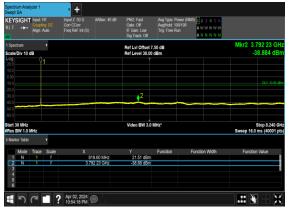
N26(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

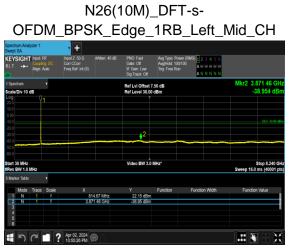


N26(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N26(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH





N26(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N26(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

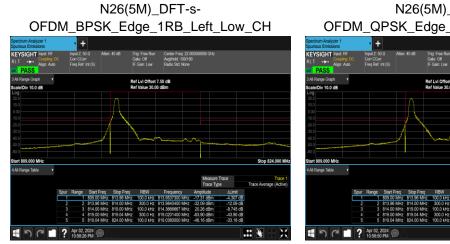
	out: RF Supling: DC Ign: Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S)	#Atten: 40 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Pov Avg Hold: 100 Trig: Free Run		
spectrum ale/Div 10 dB	•			Ref Lvi Offset Ref Level 30.0			Mkr2 3.787 72 G -38.794 dE
g).0).0	91						
0							
				¢2			
0							
rt 30 MHz Is BW 1.0 MHz	2			Video BW 3.) MHz*		Stop 8.240 Sweep 16.0 ms (40001
larker Table	•						
Mode Tra 1 N 2 N	ace Scale		4.67 MHz 7 72 GHz	Y 22.39 dBm -38.79 dBm		Function Width	Function Value
2 N 3 4 5 6		3.76	712012	-36.79 UBI			

N26(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

Spectrum Analy Swept SA	yzer 1		• +							
KEYSIGHT RLT +>+	Input: I Coupli Align: J		Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 40 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: F Avg[Hold: 1 Trig: Free R	tun A	2 3 4 5 6 FWWWW LNNNN		
1 Spectrum		•			Ref Lvi Offset	7.50 dB				790 18 GHz
Scale/Div 10 c					Ref Level 30.0	0 dBm				38.865 dBm
20.0	Q.	1								
10.0										
0.00										
-10.0										DL1-13.00 dBm
-20.0										
-30.0					¢2					
-40.0										
-50.0										
Start 30 MHz										
Start 30 MHz #Res BW 1.0 M	ИНz				Video BW 3.	J MHZ.			Sweep 16.	Stop 8.240 GHz ms (40001 pts)
5 Marker Table		•								
Mode	Trace	Scale	Х		Y	Function	Function	on Width	Functio	in Value
1 N	1	f	8	14.67 MHz	21.80 dBm	1				
2 N	1	1	3.7	90 18 GHz	-38.87 dBm	1				
3										
5										
6										
	2		Apr 02, 2024							
	(*		Apr 02, 2024 10:57:35 PM	ÐA						

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



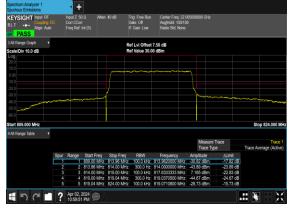
N26(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



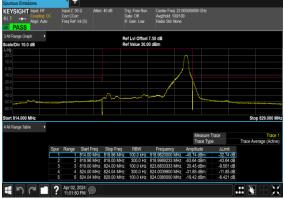
N26(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



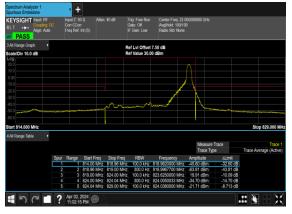
N26(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

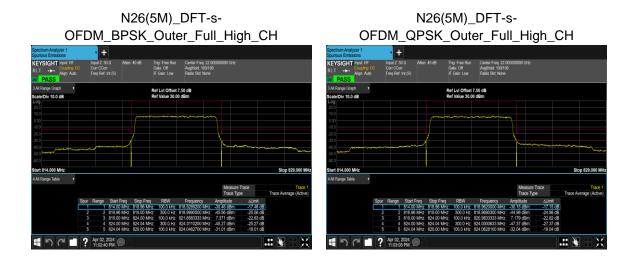


N26(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH +

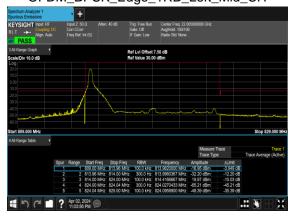


N26(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

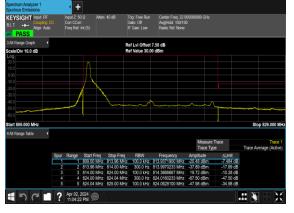




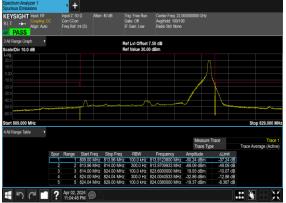
N26(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



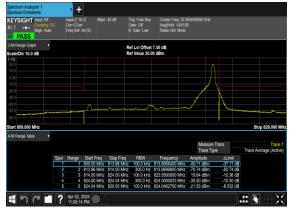
N26(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

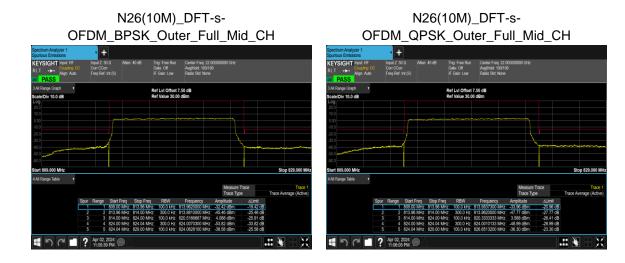


N26(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH

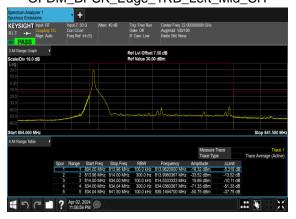


N26(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH

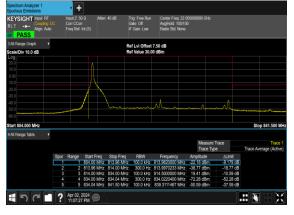




N26(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



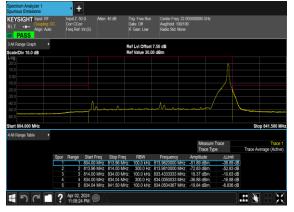
N26(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

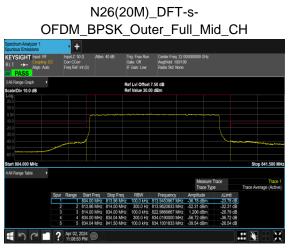


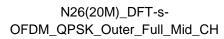
N26(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH

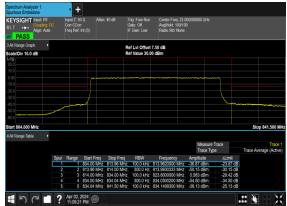


N26(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH











Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Tost Engineer :	Zhaobui Liang	Temperature :	22~25°C
Test Engineer :	Zhaohui Liang	Relative Humidity :	48~52%

		N26 SA	/ NR 20MH	lz / QPSK /	Sample 1 8	Monopole	Antenna		
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)
	1629	-65.19	-13	-52.19	-77.22	-68.42	3.98	9.36	Н
	2443.5	-59.75	-13	-46.75	-78.73	-63.30	4.85	10.55	Н
Lowest	3258	-59.11	-13	-46.11	-79.97	-64.04	5.50	12.58	Н
Lowest	1629	-64.66	-13	-51.66	-77.29	-67.89	3.98	9.36	V
	2443.5	-59.16	-13	-46.16	-78.58	-62.71	4.85	10.55	V
	3258	-57.62	-13	-44.62	-79.75	-62.55	5.50	12.58	V
	1634	-65.39	-13	-52.39	-77.42	-68.64	4.00	9.40	Н
	2451	-59.47	-13	-46.47	-78.45	-63.04	4.88	10.60	Н
Middle	3268	-59.20	-13	-46.20	-80.06	-64.13	5.52	12.60	Н
widdle	1634	-64.63	-13	-51.63	-77.26	-67.88	4.00	9.40	V
	2451	-59.30	-13	-46.30	-78.72	-62.87	4.88	10.60	V
	3268	-57.88	-13	-44.88	-80.01	-62.81	5.52	12.60	V
	1630	-64.74	-13	-51.74	-76.77	-67.91	4.10	9.42	Н
	2445	-59.95	-13	-46.95	-78.93	-63.53	4.90	10.63	Н
Highest	3260	-58.98	-13	-45.98	-79.84	-63.90	5.55	12.62	Н
	1630	-64.40	-13	-51.40	-77.03	-67.57	4.10	9.42	V
	2445	-59.50	-13	-46.50	-78.92	-63.08	4.90	10.63	V
	3260	-57.67	-13	-44.67	-79.80	-62.59	5.55	12.62	V

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

	N26 SA / NR 20MHz / QPSK / Sample 2 & Monopole Antenna										
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)		
	1629	-65.68	-13	-52.68	-77.71	-68.91	3.98	9.36	Н		
	2443.5	-60.18	-13	-47.18	-79.16	-63.73	4.85	10.55	Н		
Lowoot	3258	-59.10	-13	-46.10	-79.96	-64.03	5.50	12.58	Н		
Lowest	1629	-64.93	-13	-51.93	-77.56	-68.16	3.98	9.36	V		
	2443.5	-59.67	-13	-46.67	-79.09	-63.22	4.85	10.55	V		
	3258	-57.76	-13	-44.76	-79.89	-62.69	5.50	12.58	V		

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