FCC RF Test Report

APPLICANT	:	Rolling Wireless S.a r.l.
EQUIPMENT	:	5G Module
BRAND NAME	:	Rolling Wireless
MODEL NAME	:	RW135R-GL
FCC ID	:	2AX2URW135RGL
STANDARD	:	47 CFR Part 90(R)
CLASSIFICATION	:	PCS Licensed Transmitter (PCB)
TEST DATE(S)	:	May 07, 2026 ~ May 14, 2026

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.

Fly Liang

Approved by: Fly Liang

ACCREDITED
Cert #5145.01

Sporton International Inc. (ShenZhen)

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People's Republic of China

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APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

APPENDIX C. TEST SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG642201L	Rev. 01	Initial issue of report	Jun. 18, 2026

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.2	§2.1046	Conducted Output Power	—	Reporting only	-
	§90.542 (a)(7)	Effective Radiated Power	ERP < 3Watt	PASS	-
3.3	-	Peak-to-Average Ratio	—	Reporting only	-
3.4	§2.1049	Occupied Bandwidth	—	Reporting only	-
3.5	§2.1053 §90.543 (e)(2)(3)	Conducted Band Edge Measurement	Refer standard	PASS	-
3.6	§2.1051 §90.210(n)	Emission Mask	Mask B	PASS	-
3.7	§2.1053 §90.543 (e)(3)	Conducted Spurious Emission	< $43+10\log_{10}$(P[Watts])	PASS	-
3.8	§2.1055 §90.539 (e)	Frequency Stability Temperature & Voltage	< ±1.25 ppm	PASS	-
4.4	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 22.45 dB at 1577 MHz

Conformity Assessment Condition:

1. 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.

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	RW135R-GL
FCC ID	2AX2URW135RGL
Tx Frequency	5G NR n14: 788 MHz ~ 798 MHz
Rx Frequency	5G NR n14: 758 MHz ~ 768 MHz
SCS/Bandwidth	15kHz: 5MHz / 10MHz
Antenna Gain	3.0 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM
IMEI Code	Conducted : 359200990001763 Radiation : 359200990002126
EUT Stage	Identical Prototype

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. 5G n14 support both 5G Redcap and 5G NR SA modes.

3. According to the maximum power between SA and Redcap mode, SA covers Redcap mode, only the test data of SA mode is showed in the report.

4. There are two types of EUT. For details, please refer to the RW135R-GL_Operational Description of Product Equality Declaration exhibit separately. After evaluation, the differences will not affect RF performance, so we choose the Sample1 to full test, and Sample 2 to verify the worst case for RSE, which is recorded in another report(FG642201O).

1.4 Maximum Conducted Power, and Emission Designator

5G NR n14		PI/2 BPSK / 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	**790.5~795.5**	0.2965	4M47G7D	0.2307	4M50W7D
10	**793**	0.2972	9M26G7D	0.2388	9M28W7D

1.5 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	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.**
	TH01-SZ 03CH02-SZ	CN1256	421272

1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.7 Applied Standards

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

- 47 CFR Part 90(R)
- ANSI C63.26
- KDB 971168 D01 Power Meas License Digital Systems v03r01
- KDB 412172 D01 Determining ERP and EIRP v01r01

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

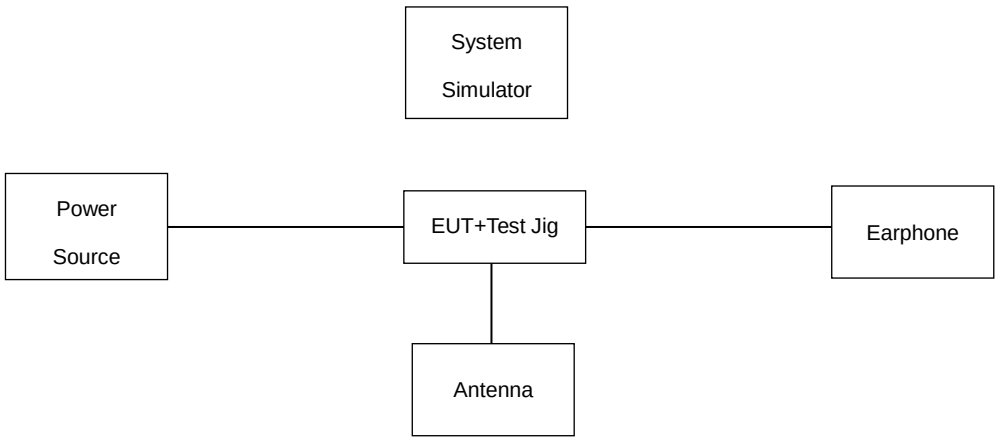
2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Conducted Test Cases	Band	Bandwidth (MHz)						Modulation					RB #			Test Channel		
		1.4	3	5	10	15	20	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n14	-	-	V		-	-		V	V			V	V	V	V	V	V
	n14	-	-		V	-	-	V	V	V	V	V	V	V	V		V	
Peak-to-Average Ratio	n14	-	-	V	V	-	-	V	V						V		V	
26dB and 99% Bandwidth	n14	-	-	V	V	-	-		V	V	V	V			V		V	
Conducted Band Edge	n14	-	-	V		-	-	V	V				V		V	V		V
	n14	-	-		V	-	-	V	V				V		V		V	
Emission Mask	n14	-	-	V		-	-	V	V				V		V	V	V	V
	n14	-	-		V	-	-	V	V				V		V		V	
Conducted Spurious Emission	n14	-	-	V		-	-	V	V				V			V	V	V
	n14	-	-		V	-	-	V	V				V				V	
Frequency Stability	n14	-	-	V		-	-		V						V	V	V	V
	n14	-	-		V	-	-		V						V		V	
E.R.P	n14	-	-	V		-	-		V	V			V	V	V	V	V	V
	n14	-	-		V	-	-	V	V	V	V	V	V	V	V		V	
Radiated Spurious Emission	n14	Worst Case														V	V	V
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. **3.** The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. **4.** Frequency Stability：Normal Voltage =3.3 V ；Low Voltage =3.135V.；High Voltage =4.40V.																	

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

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.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
3.	WWAN Antenna	N/A	N/A	N/A	N/A	N/A
4.	Test Jig	N/A	N/A	N/A	N/A	N/A
5.	Earphone	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 EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with 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 n14 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	-	158600	-
	Frequency	-	793	-
5	Channel	158100	158600	159100
	Frequency	790.5	793	795.5

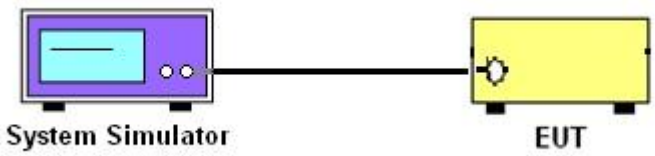
3 Conducted Test Items

3.1 Measuring Instruments

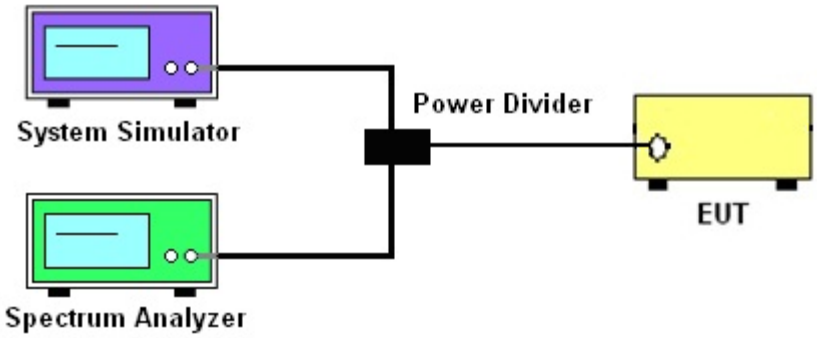
See list of measuring instruments of this test report.

3.1.1 Test Setup

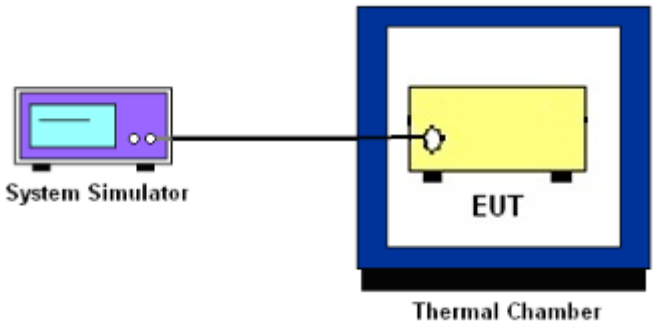
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge, Emission Mask, and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP

3.2.1 Description of the Conducted Output Power Measurement and ERP

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 14.

According to KDB 412172 D01 Power Approach,

EIRP = $P_T + G_T – L_C$, ERP = EIRP -2.15, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.2.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.3.2 Test Procedures

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.

3.4 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

The 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 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
   (this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.5 Conducted Band Edge Measurement

3.5.1 Description of Conducted Band Edge Measurement

For operations in the 758-768 MHz and the 788-798 MHz bands

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set spectrum analyzer with RMS detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. Checked that all the results comply with the emission limit line.

   Example:

   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

   = P(W)- [43 + 10log(P)] (dB)

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.

3.6 Emission Mask

3.6.1 Description of Emission Mask

<Emission Mask B>.

For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.

(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
5. Set spectrum analyzer with RMS detector.
6. Taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.

3.7 Conducted Spurious Emission Measurement

3.7.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30MHz up to a frequency including its 10th harmonic.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and base station via power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's, for under 1GHz RBW = 100kHz, VBW = 300kHz and for above 1GHz RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.

3.8 Frequency Stability Measurement

3.8.1 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 ±1.25 ppm of the center frequency.

3.8.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. 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.

3.8.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5.
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

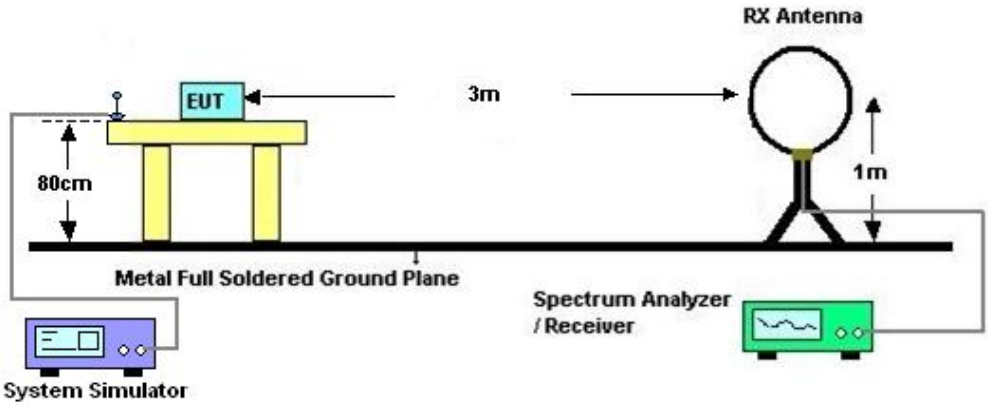
4 Radiated Test Items

4.1 Measuring Instruments

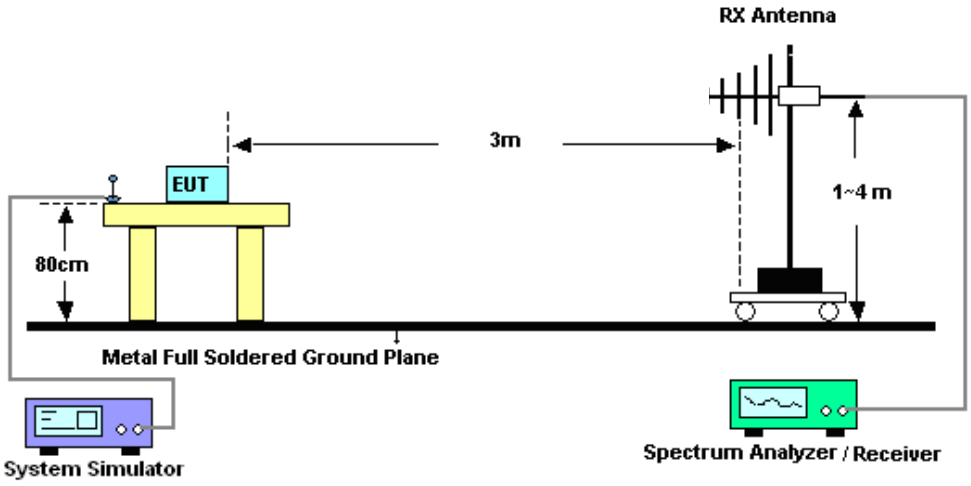
See list of measuring instruments of this test report.

4.2 Test Setup

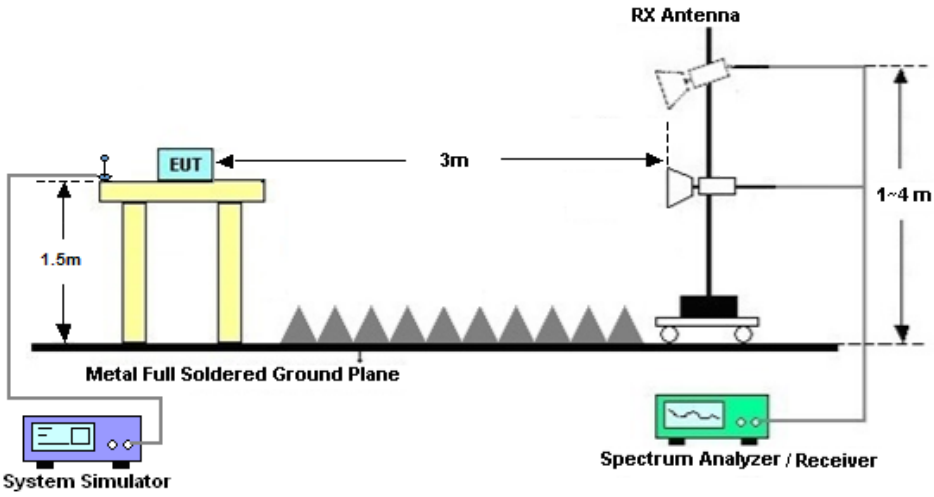
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. 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 (P) dB.

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
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.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

5 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	Mar. 26, 2026	May 07, 2026~ May 13, 2026	Mar. 25, 2027	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 13, 2025	May 07, 2026~ May 13, 2026	Oct. 12, 2026	Conducted (TH01-SZ)
Power Divider	Titan	P02N005180	923402	0.4GHz~26.5GHz	Nov. 07, 2025	May 07, 2026~ May 13, 2026	Nov. 06, 2026	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 02, 2025	May 07, 2026~ May 13, 2026	Jul. 01, 2026	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	May 14, 2026	Jul. 02, 2026	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Dec. 23, 2025	May 14, 2026	Dec. 22, 2027	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2025	May 14, 2026	Jul. 04, 2026	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	May 14, 2026	Jul. 03, 2026	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 03, 2025	May 14, 2026	Apr. 02, 2027	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz-3GHz	Dec. 25, 2025	May 14, 2026	Dec. 24, 2026	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 13, 2025	May 14, 2026	Oct. 12, 2026	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 13, 2025	May 14, 2026	Oct. 12, 2026	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	May 14, 2026	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	May 14, 2026	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

6 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 (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.47 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.31 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.72 dB

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Lorenzo Liu	**Temperature :**	24~26℃
		Relative Humidity :	50~53%

Software Version: 23.06.1602

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Transmitter Conducted Output Power And ERP, (G_T - L_C)= 3.0 dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
14	15	5	158100	790.5	DFT-s-OFDM QPSK	12@6	24.52	25.37	0.3443
14	15	5	158100	790.5	DFT-s-OFDM QPSK	1@1	24.41	25.26	0.3357
14	15	5	158100	790.5	DFT-s-OFDM QPSK	1@23	24.67	25.52	0.3565
14	15	5	158100	790.5	DFT-s-OFDM 16 QAM	12@6	23.36	24.21	0.2636
14	15	5	158100	790.5	DFT-s-OFDM 16 QAM	1@1	23.63	24.48	0.2805
14	15	5	158100	790.5	DFT-s-OFDM 16 QAM	1@23	23.58	24.43	0.2773
14	15	5	158600	793	DFT-s-OFDM QPSK	12@6	24.53	25.38	0.3451
14	15	5	158600	793	DFT-s-OFDM QPSK	1@1	24.72	25.57	0.3606
14	15	5	158600	793	DFT-s-OFDM QPSK	1@23	24.52	25.37	0.3443
14	15	5	158600	793	DFT-s-OFDM 16 QAM	12@6	23.5	24.35	0.2723
14	15	5	158600	793	DFT-s-OFDM 16 QAM	1@1	23.6	24.45	0.2786
14	15	5	158600	793	DFT-s-OFDM 16 QAM	1@23	23.63	24.48	0.2805
14	15	5	159100	795.5	DFT-s-OFDM QPSK	12@6	24.51	25.36	0.3436
14	15	5	159100	795.5	DFT-s-OFDM QPSK	1@1	24.42	25.27	0.3365
14	15	5	159100	795.5	DFT-s-OFDM QPSK	1@23	24.58	25.43	0.3491
14	15	5	159100	795.5	DFT-s-OFDM 16 QAM	12@6	23.4	24.25	0.2661
14	15	5	159100	795.5	DFT-s-OFDM 16 QAM	1@1	23.63	24.48	0.2805
14	15	5	159100	795.5	DFT-s-OFDM 16 QAM	1@23	23.54	24.39	0.2748
14	15	10	158600	793	DFT-s-OFDM PI/2 BPSK	25@12	24.63	25.48	0.3532
14	15	10	158600	793	DFT-s-OFDM PI/2 BPSK	1@1	24.53	25.38	0.3451
14	15	10	158600	793	DFT-s-OFDM PI/2 BPSK	1@50	24.4	25.25	0.3350
14	15	10	158600	793	DFT-s-OFDM QPSK	25@12	24.53	25.38	0.3451
14	15	10	158600	793	DFT-s-OFDM QPSK	1@1	24.73	25.58	0.3614
14	15	10	158600	793	DFT-s-OFDM QPSK	1@50	24.49	25.34	0.3420
14	15	10	158600	793	DFT-s-OFDM 16 QAM	25@12	23.61	24.46	0.2793
14	15	10	158600	793	DFT-s-OFDM 16 QAM	1@1	23.78	24.63	0.2904

14	15	10	158600	793	DFT-s-OFDM 16 QAM	1@50	23.53	24.38	0.2742
14	15	10	158600	793	DFT-s-OFDM 64 QAM	25@12	22.17	23.02	0.2004
14	15	10	158600	793	DFT-s-OFDM 64 QAM	1@1	22.34	23.19	0.2084
14	15	10	158600	793	DFT-s-OFDM 64 QAM	1@50	22.16	23.01	0.2000
14	15	10	158600	793	DFT-s-OFDM 256 QAM	25@12	20	20.85	0.1216
14	15	10	158600	793	DFT-s-OFDM 256 QAM	1@1	19.86	20.71	0.1178
14	15	10	158600	793	DFT-s-OFDM 256 QAM	1@50	19.65	20.5	0.1122
14	15	10	158600	793	CP-OFDM QPSK	26@13	23.08	23.93	0.2472
14	15	10	158600	793	CP-OFDM QPSK	1@1	23.13	23.98	0.2500
14	15	10	158600	793	CP-OFDM QPSK	1@50	23.1	23.95	0.2483

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	14.4	**PASS**	NV
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	12.4	**PASS**	LV
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	16	**PASS**	HV
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	13	**PASS**	-30℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	10.7	**PASS**	-20℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	14.3	**PASS**	-10℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	17.5	**PASS**	0℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	18.5	**PASS**	10℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	14.4	**PASS**	20℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	18.3	**PASS**	30℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	18.5	**PASS**	40℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	16.8	**PASS**	50℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	11.9	**PASS**	NV
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	12.9	**PASS**	LV
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	12.4	**PASS**	HV
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	16.6	**PASS**	-30℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	17.2	**PASS**	-20℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	14	**PASS**	-10℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	10.5	**PASS**	0℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	18.1	**PASS**	10℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	11.9	**PASS**	20℃

14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	12	**PASS**	30℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	12.7	**PASS**	40℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	16.4	**PASS**	50℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	13.4	**PASS**	NV
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	10.5	**PASS**	LV
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	13.6	**PASS**	HV
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	11.8	**PASS**	-30℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	16.2	**PASS**	-20℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	19.4	**PASS**	-10℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	18.8	**PASS**	0℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	13.1	**PASS**	10℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	13.4	**PASS**	20℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	12.1	**PASS**	30℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	18.5	**PASS**	40℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	18.7	**PASS**	50℃

|MAX(△f)| =19.4 Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
f_L – |MAX(△f)|	788.2222606	≧ 788 MHz	PASS
f_H + |MAX(△f)|	792.7477694	≦ 798 MHz	

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	0.0020	**PASS**	NV
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	0.0025	**PASS**	LV
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	0.0020	**PASS**	HV
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	0.0018	**PASS**	-30℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	0.0047	**PASS**	-20℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	0.0001	**PASS**	-10℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	0.0039	**PASS**	0℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	0.0052	**PASS**	10℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	0.0000	**PASS**	20℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	0.0049	**PASS**	30℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	0.0052	**PASS**	40℃
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	0.0030	**PASS**	50℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	0.0003	**PASS**	NV
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	0.0013	**PASS**	LV
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	0.0006	**PASS**	HV
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	0.0059	**PASS**	-30℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	0.0067	**PASS**	-20℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	0.0026	**PASS**	-10℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	0.0018	**PASS**	0℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	0.0078	**PASS**	10℃

14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	0.0000	**PASS**	20℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	0.0001	**PASS**	30℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	0.0010	**PASS**	40℃
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	0.0057	**PASS**	50℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	0.0012	**PASS**	NV
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	0.0037	**PASS**	LV
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	0.0003	**PASS**	HV
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	0.0020	**PASS**	-30℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	0.0035	**PASS**	-20℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	0.0076	**PASS**	-10℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	0.0068	**PASS**	0℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	0.0004	**PASS**	10℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	0.0000	**PASS**	20℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	0.0016	**PASS**	30℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	0.0064	**PASS**	40℃
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	0.0067	**PASS**	50℃

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	13.8	**PASS**	NV
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	13.2	**PASS**	LV
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	12.1	**PASS**	HV
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	11.6	**PASS**	-30℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	18.8	**PASS**	-20℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	19	**PASS**	-10℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	17.1	**PASS**	0℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	17.7	**PASS**	10℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	13.8	**PASS**	20℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	17.7	**PASS**	30℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	11.6	**PASS**	40℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	13.8	**PASS**	50℃

|MAX(△f)| =19 Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
f_L – |MAX(△f)|	788.364581	≧ 788 MHz	PASS
f_H + |MAX(△f)|	797.635419	≦ 798 MHz	

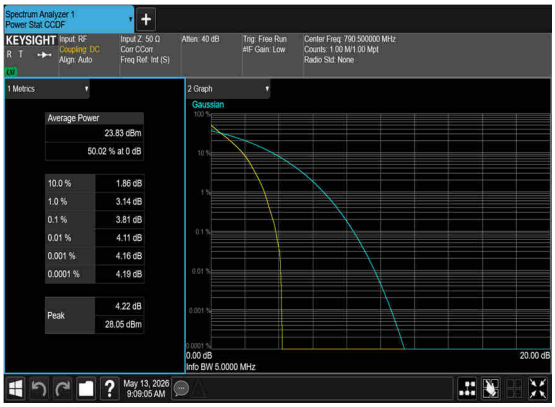
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	0.0016	**PASS**	NV
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	0.0008	**PASS**	LV
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	0.0021	**PASS**	HV
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	0.0028	**PASS**	-30℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	0.0063	**PASS**	-20℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	0.0066	**PASS**	-10℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	0.0042	**PASS**	0℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	0.0049	**PASS**	10℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	0.0000	**PASS**	20℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	0.0049	**PASS**	30℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	0.0028	**PASS**	40℃
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	0.0000	**PASS**	50℃

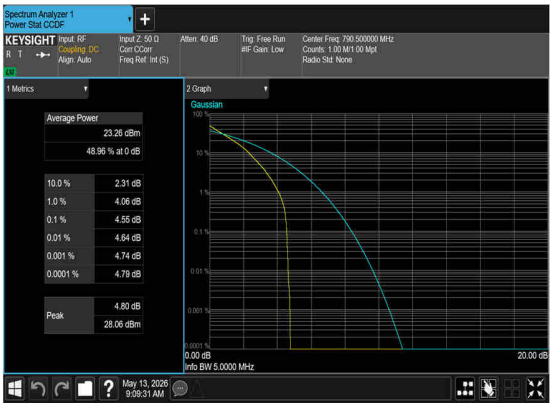
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
14	15	5	158100	790.5	DFT-s-OFDM PI/2 BPSK	25@0	3.81	13	**PASS**
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	4.55	13	**PASS**
14	15	5	158600	793.0	DFT-s-OFDM PI/2 BPSK	25@0	3.5	13	**PASS**
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	4.27	13	**PASS**
14	15	5	159100	795.5	DFT-s-OFDM PI/2 BPSK	25@0	3.49	13	**PASS**
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	4.2	13	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM PI/2 BPSK	50@0	3.72	13	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	4.39	13	**PASS**

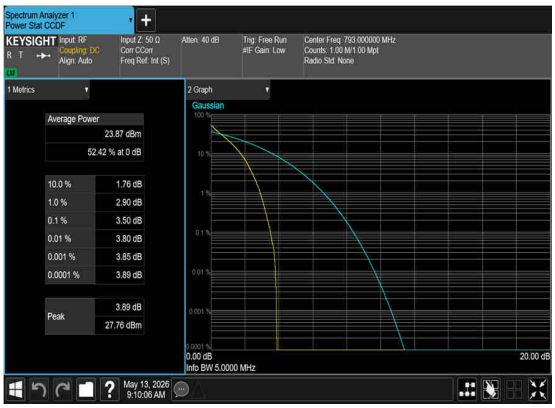
N14(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

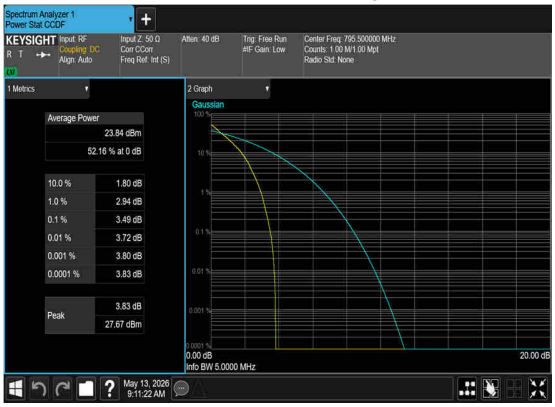


N14(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

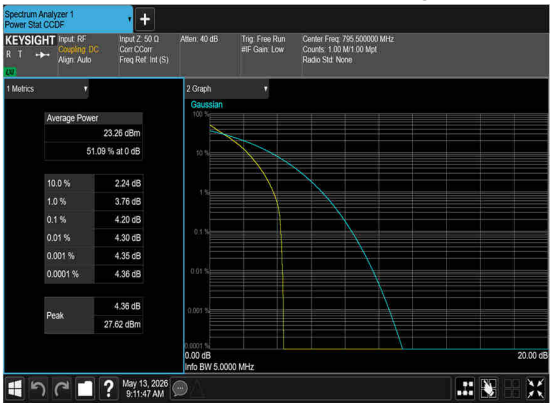


N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N14(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N14(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N14(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

Occupied Bandwidth

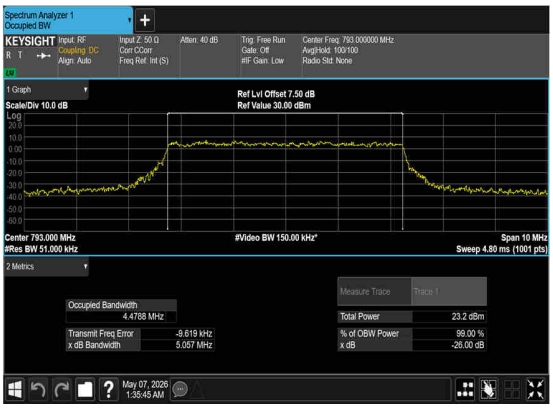
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
14	15	5	158600	793.0	CP-OFDM QPSK	25@0	4.474	5.146
14	15	5	158600	793.0	CP-OFDM 16 QAM	25@0	4.4983	5.23
14	15	5	158600	793.0	CP-OFDM 64 QAM	25@0	4.462	4.927
14	15	5	158600	793.0	CP-OFDM 256 QAM	25@0	4.4788	5.057
14	15	10	158600	793.0	CP-OFDM QPSK	52@0	9.2586	10.06
14	15	10	158600	793.0	CP-OFDM 16 QAM	52@0	9.2843	9.892
14	15	10	158600	793.0	CP-OFDM 64 QAM	52@0	9.2619	9.911
14	15	10	158600	793.0	CP-OFDM 256 QAM	52@0	9.2801	9.95

N14(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

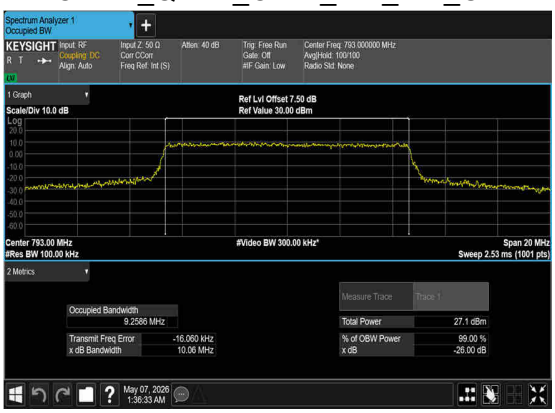
N14(5M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

N14(5M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

N14(5M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



N14(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N14(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

N14(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

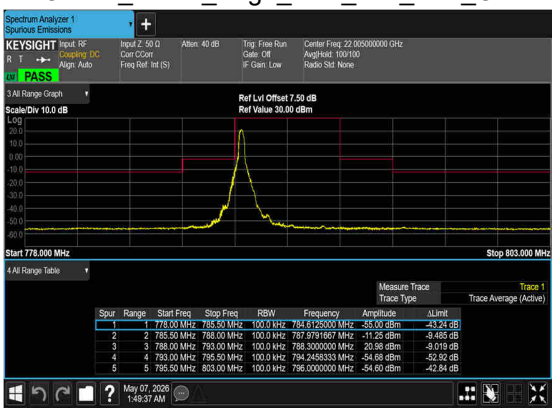
N14(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

Emission Mask

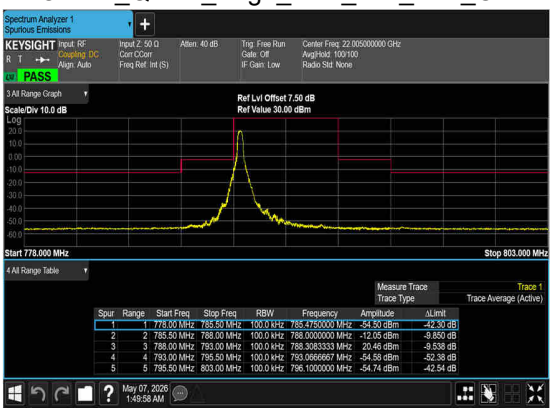
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Limit (dBm/MHz)	Verdict
14	15	5	158100	790.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
14	15	5	158100	790.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
14	15	5	158100	790.5	DFT-s-OFDM BPSK	1@24	see graph	**PASS**
14	15	5	158100	790.5	DFT-s-OFDM QPSK	1@24	see graph	**PASS**
14	15	5	158100	790.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
14	15	5	158600	793.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
14	15	5	158600	793.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
14	15	5	158600	793.0	DFT-s-OFDM BPSK	1@24	see graph	**PASS**
14	15	5	158600	793.0	DFT-s-OFDM QPSK	1@24	see graph	**PASS**
14	15	5	158600	793.0	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
14	15	5	158600	793.0	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
14	15	5	159100	795.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
14	15	5	159100	795.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
14	15	5	159100	795.5	DFT-s-OFDM BPSK	1@24	see graph	**PASS**
14	15	5	159100	795.5	DFT-s-OFDM QPSK	1@24	see graph	**PASS**
14	15	5	159100	795.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

14	15	10	158600	793.0	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**

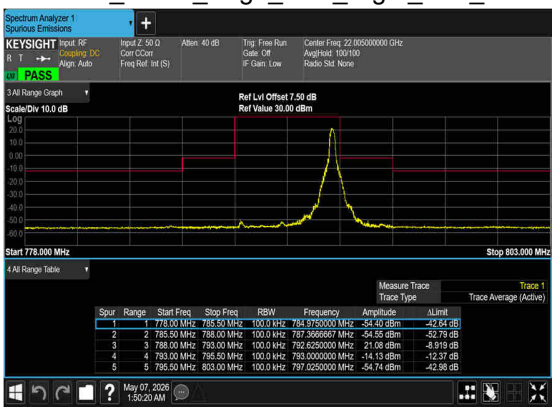
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



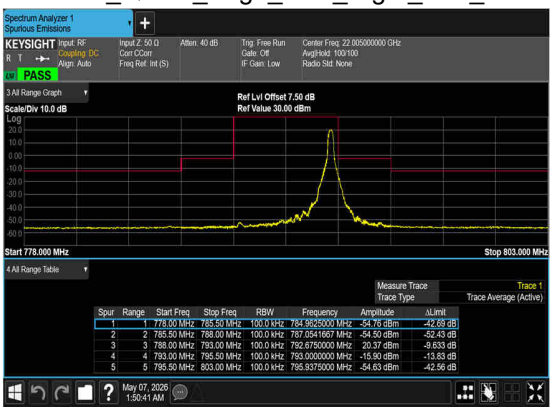
N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



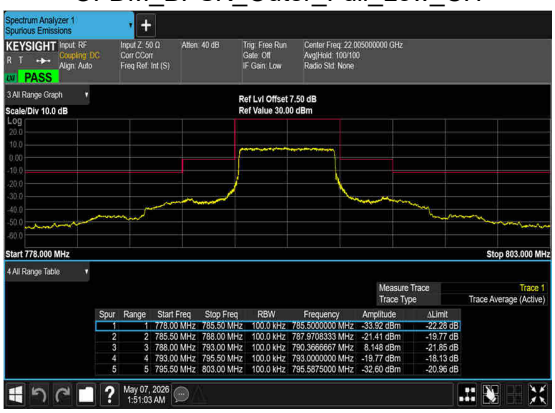
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



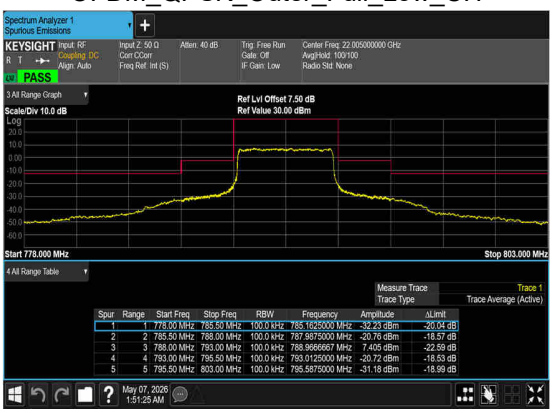
N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



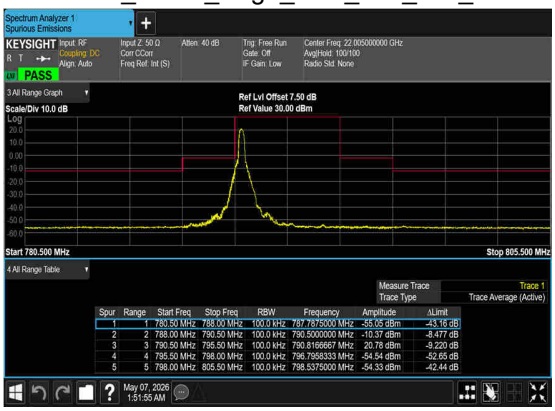
N14(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



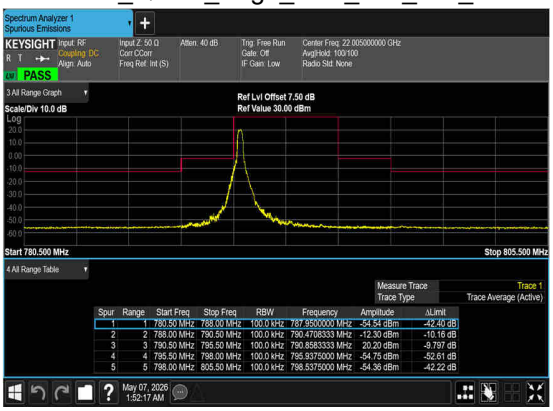
N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



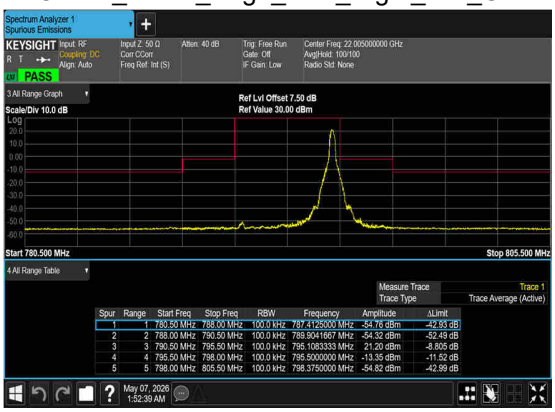
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



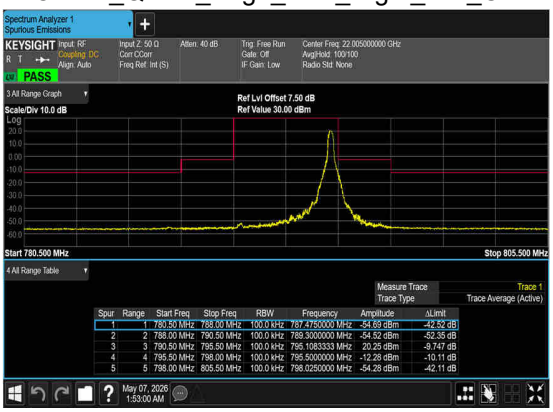
N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



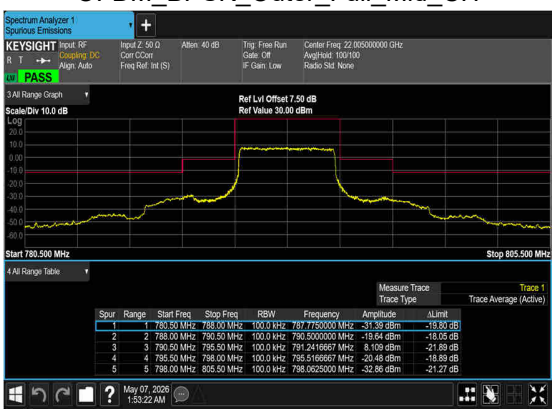
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



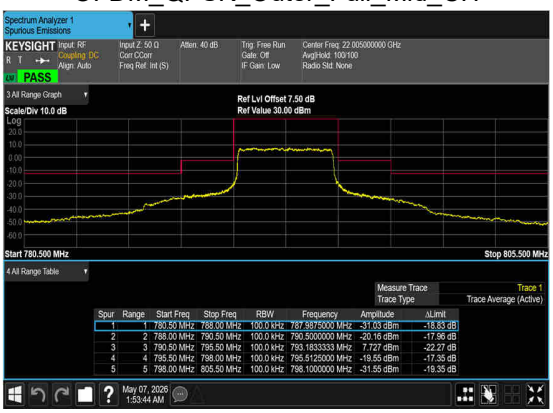
N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



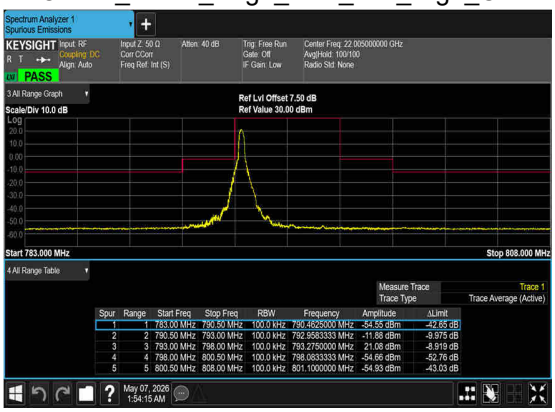
N14(5M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



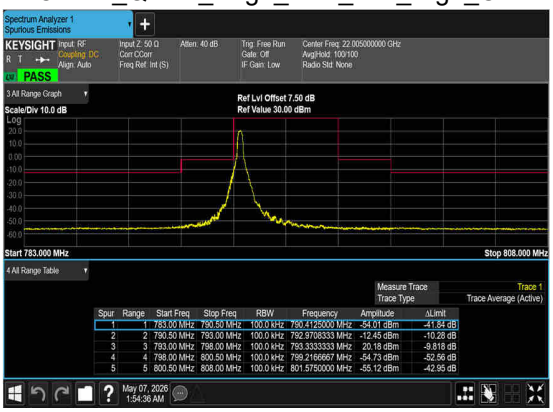
N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



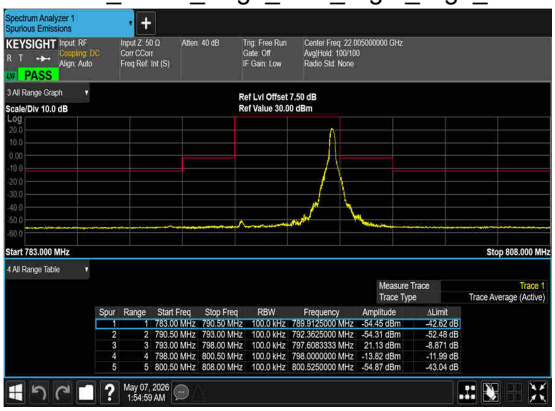
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



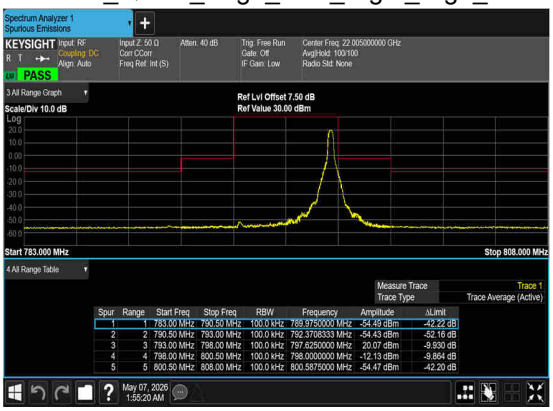
N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



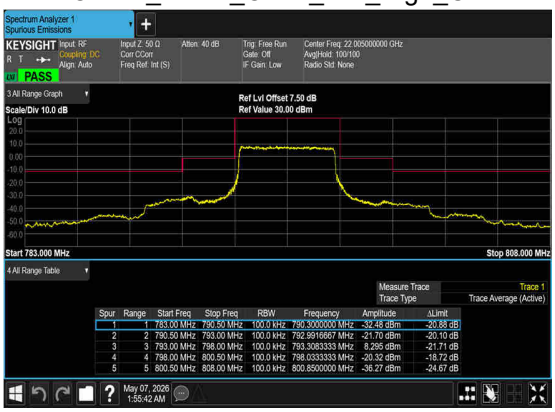
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



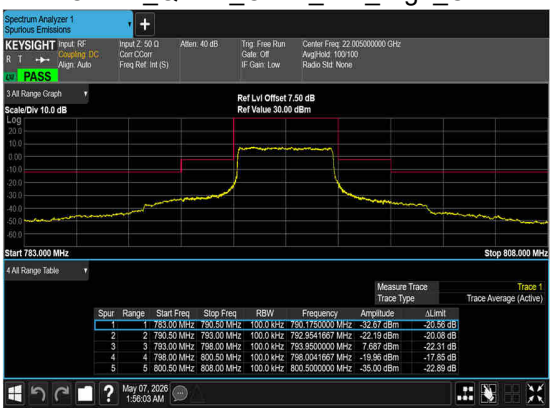
N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



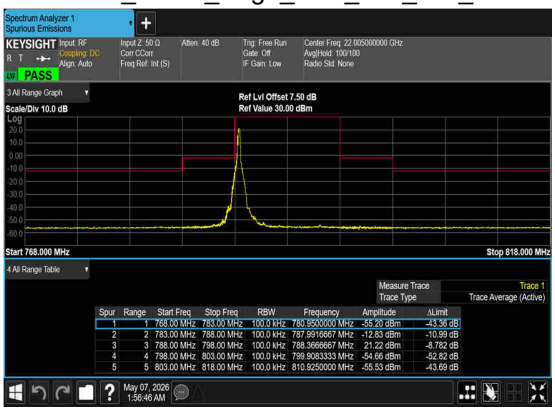
N14(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



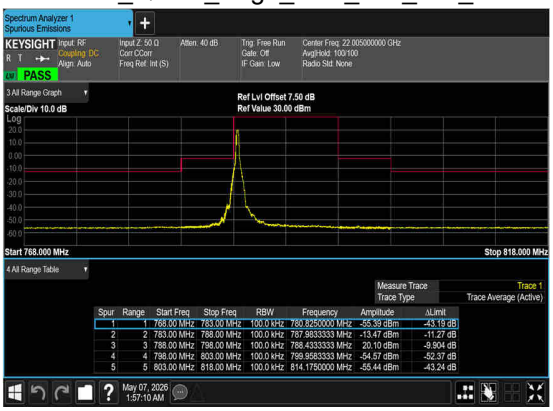
N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



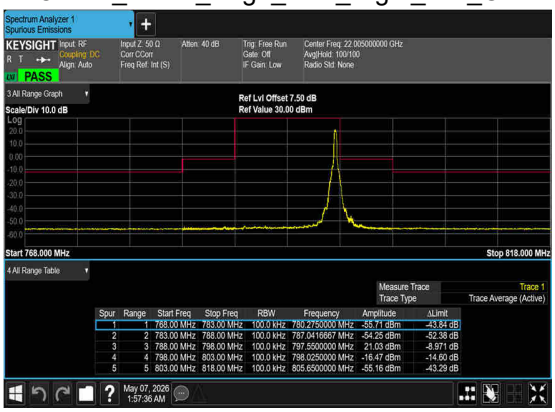
N14(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



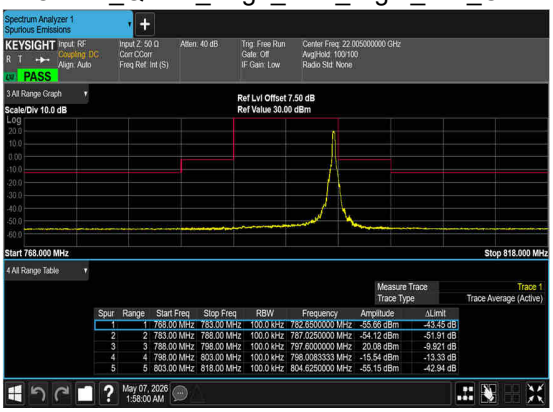
N14(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



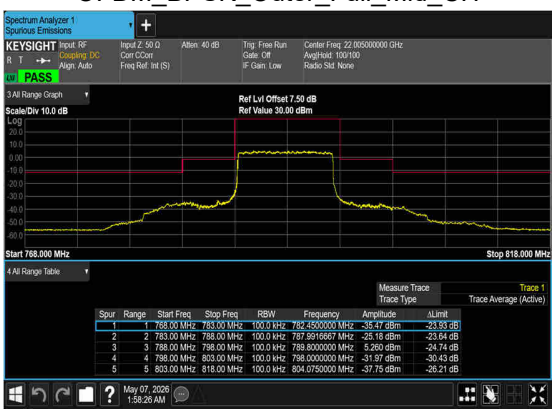
N14(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



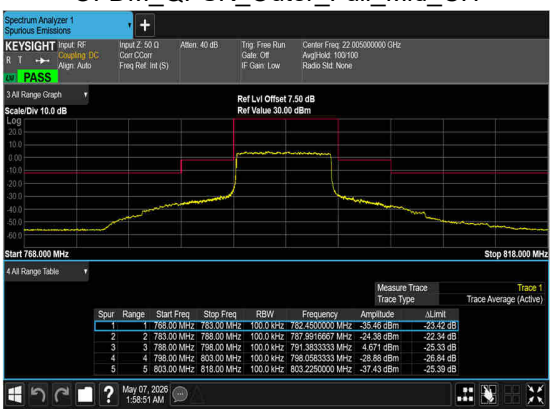
N14(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N14(10M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



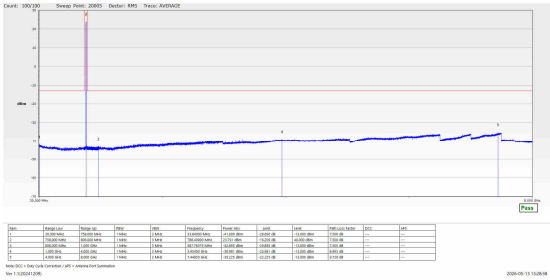
N14(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



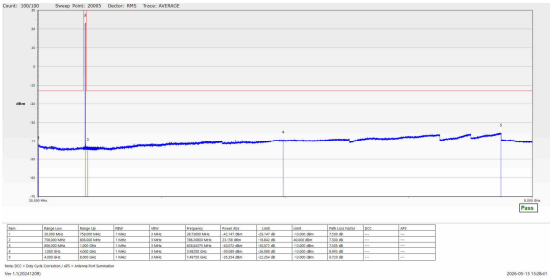
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
14	15	5	158100	790.5	DFT-s-OFDM BPSK	1@0	see graph	---
14	15	5	158100	790.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
14	15	5	158100	790.5	DFT-s-OFDM QPSK	1@0	see graph	---
14	15	5	158100	790.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
14	15	5	158600	793.0	DFT-s-OFDM BPSK	1@0	see graph	---
14	15	5	158600	793.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
14	15	5	158600	793.0	DFT-s-OFDM QPSK	1@0	see graph	---
14	15	5	158600	793.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
14	15	5	159100	795.5	DFT-s-OFDM BPSK	1@0	see graph	---
14	15	5	159100	795.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
14	15	5	159100	795.5	DFT-s-OFDM QPSK	1@0	see graph	---
14	15	5	159100	795.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM BPSK	1@0	see graph	---
14	15	10	158600	793.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM QPSK	1@0	see graph	---
14	15	10	158600	793.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

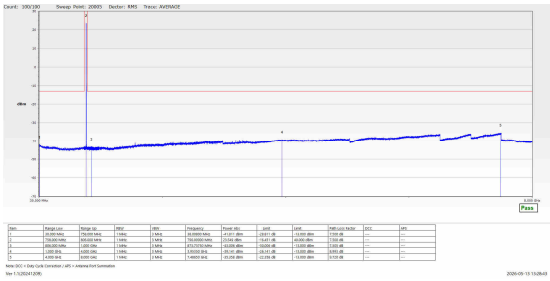
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



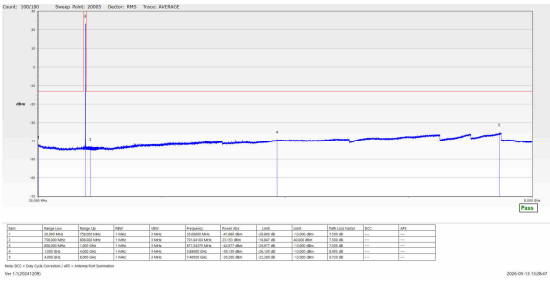
N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



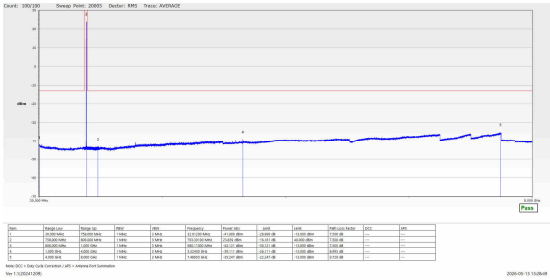
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



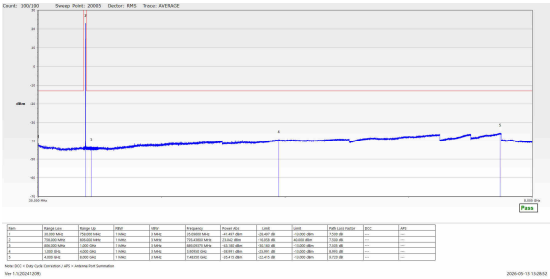
N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



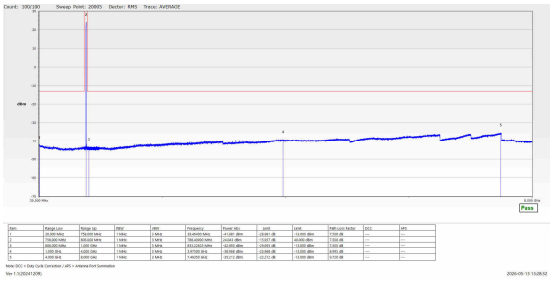
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



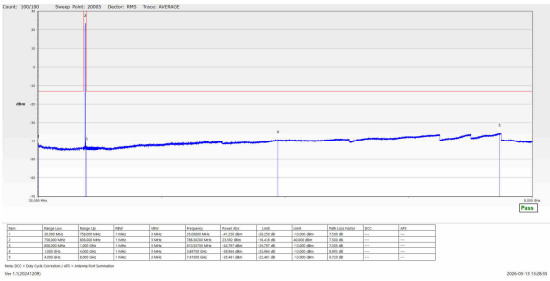
N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N14(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



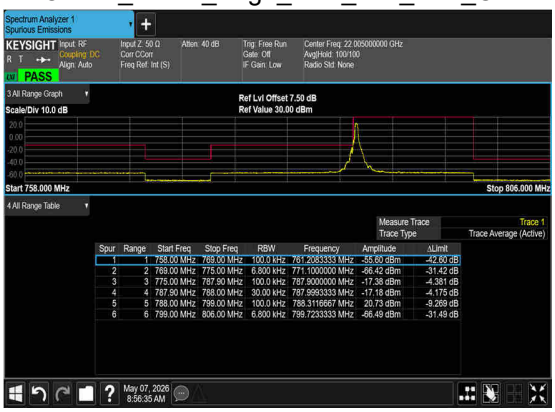
N14(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



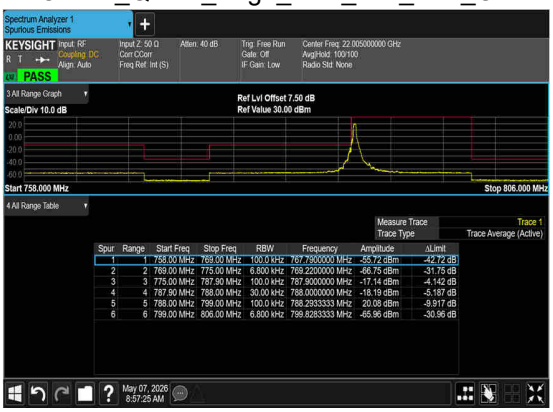
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
14	15	5	158100	790.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
14	15	5	158100	790.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
14	15	5	158100	790.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
14	15	5	158100	790.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
14	15	5	159100	795.5	DFT-s-OFDM BPSK	1@24	see graph	**PASS**
14	15	5	159100	795.5	DFT-s-OFDM QPSK	1@24	see graph	**PASS**
14	15	5	159100	795.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
14	15	5	159100	795.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
14	15	10	158600	793.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**

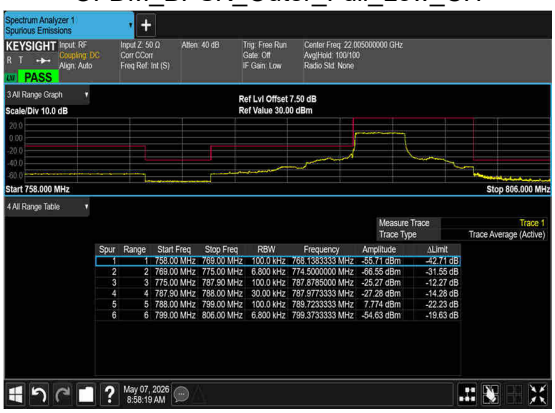
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

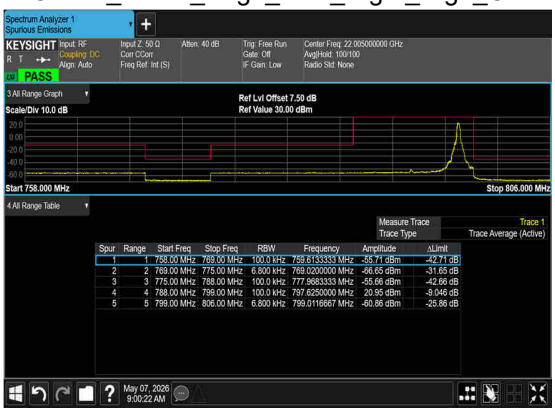


N14(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

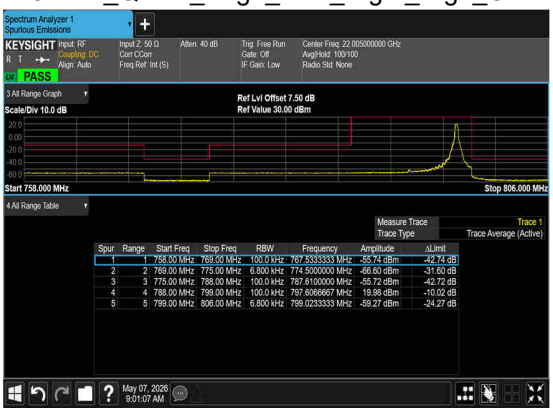


N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N14(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

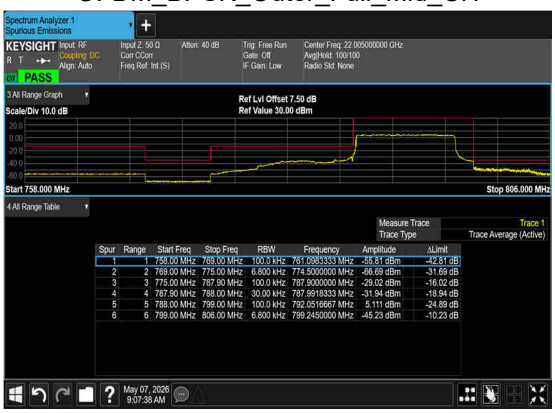
N14(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

N14(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

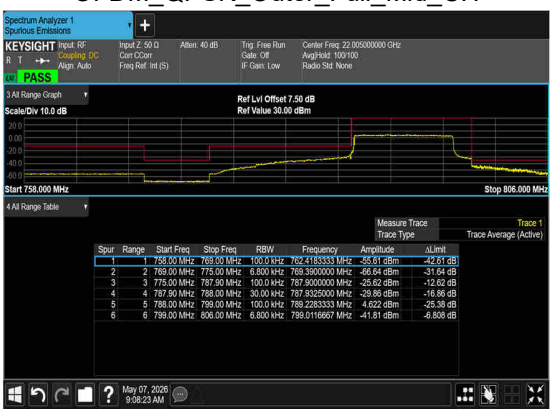
N14(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH

N14(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH

N14(10M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N14(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



Software Version: 23.06.1602

FR1 N14 - RedCap

Transmitter Conducted Output Power And ERP, (G_T - L_C)= 3.0 dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
14	15	5	158100	790.5	DFT-s-OFDM QPSK	12@6	24.54	25.39	0.3459
14	15	5	158100	790.5	DFT-s-OFDM QPSK	1@1	24.42	25.27	0.3365
14	15	5	158100	790.5	DFT-s-OFDM QPSK	1@23	24.37	25.22	0.3327
14	15	5	158100	790.5	DFT-s-OFDM 16 QAM	12@6	23.6	24.45	0.2786
14	15	5	158100	790.5	DFT-s-OFDM 16 QAM	1@1	23.66	24.51	0.2825
14	15	5	158100	790.5	DFT-s-OFDM 16 QAM	1@23	23.61	24.46	0.2793
14	15	5	158600	793	DFT-s-OFDM QPSK	12@6	24.6	25.45	0.3508
14	15	5	158600	793	DFT-s-OFDM QPSK	1@1	24.5	25.35	0.3428
14	15	5	158600	793	DFT-s-OFDM QPSK	1@23	24.38	25.23	0.3334
14	15	5	158600	793	DFT-s-OFDM 16 QAM	12@6	23.58	24.43	0.2773
14	15	5	158600	793	DFT-s-OFDM 16 QAM	1@1	23.65	24.5	0.2818
14	15	5	158600	793	DFT-s-OFDM 16 QAM	1@23	23.55	24.4	0.2754
14	15	5	159100	795.5	DFT-s-OFDM QPSK	12@6	24.57	25.42	0.3483
14	15	5	159100	795.5	DFT-s-OFDM QPSK	1@1	24.4	25.25	0.3350
14	15	5	159100	795.5	DFT-s-OFDM QPSK	1@23	24.3	25.15	0.3273
14	15	5	159100	795.5	DFT-s-OFDM 16 QAM	12@6	23.68	24.53	0.2838
14	15	5	159100	795.5	DFT-s-OFDM 16 QAM	1@1	23.62	24.47	0.2799
14	15	5	159100	795.5	DFT-s-OFDM 16 QAM	1@23	23.55	24.4	0.2754
14	15	10	158600	793	DFT-s-OFDM PI/2 BPSK	25@12	24.5	25.35	0.3428
14	15	10	158600	793	DFT-s-OFDM PI/2 BPSK	1@1	24.68	25.53	0.3573
14	15	10	158600	793	DFT-s-OFDM PI/2 BPSK	1@50	24.49	25.34	0.3420
14	15	10	158600	793	DFT-s-OFDM QPSK	25@12	24.49	25.34	0.3420
14	15	10	158600	793	DFT-s-OFDM QPSK	1@1	24.5	25.35	0.3428
14	15	10	158600	793	DFT-s-OFDM QPSK	1@50	24.46	25.31	0.3396
14	15	10	158600	793	DFT-s-OFDM 16 QAM	25@12	23.54	24.39	0.2748
14	15	10	158600	793	DFT-s-OFDM 16 QAM	1@1	23.4	24.25	0.2661

14	15	10	158600	793	DFT-s-OFDM 16 QAM	1@50	23.6	24.45	0.2786
14	15	10	158600	793	DFT-s-OFDM 64 QAM	25@12	22.04	22.89	0.1945
14	15	10	158600	793	DFT-s-OFDM 64 QAM	1@1	22.23	23.08	0.2032
14	15	10	158600	793	DFT-s-OFDM 64 QAM	1@50	22.11	22.96	0.1977
14	15	10	158600	793	DFT-s-OFDM 256 QAM	25@12	22.09	22.94	0.1968
14	15	10	158600	793	DFT-s-OFDM 256 QAM	1@1	21.89	22.74	0.1879
14	15	10	158600	793	DFT-s-OFDM 256 QAM	1@50	21.81	22.66	0.1845
14	15	10	158600	793	CP-OFDM QPSK	26@13	18.04	18.89	0.0774
14	15	10	158600	793	CP-OFDM QPSK	1@1	17.96	18.81	0.0760
14	15	10	158600	793	CP-OFDM QPSK	1@50	17.79	18.64	0.0731

Appendix B. Test Results of Radiated Test

Field Strength of Spurious Radiated

Test Engineer :	Wenbo Xiao	Temperature :	22~25℃
		Relative Humidity :	48~52%

n14 SA / NR 10MHz / QPSK									
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)
Lowest	1577	-65.18	-42.15	-23.03	-74.68	-68.41	3.98	9.36	H
	2365.5	-62.93	-13	-49.93	-77.20	-66.48	4.85	10.55	H
	3154	-61.02	-13	-48.02	-77.73	-65.95	5.50	12.58	H
	1577	-65.52	-42.15	-23.37	-75.15	-68.75	3.98	9.36	V
	2365.5	-62.70	-13	-49.70	-76.96	-66.25	4.85	10.55	V
	3154	-60.98	-13	-47.98	-77.69	-65.91	5.50	12.58	V
Middle	1577	-65.26	-42.15	-23.11	-74.76	-68.51	4.00	9.40	H
	2365.5	-62.97	-13	-49.97	-77.24	-66.54	4.88	10.60	H
	3154	-60.65	-13	-47.65	-77.36	-65.58	5.52	12.60	H
	1577	-64.60	-42.15	-22.45	-74.23	-67.85	4.00	9.40	V
	2365.5	-61.54	-13	-48.54	-75.80	-65.11	4.88	10.60	V
	3154	-60.75	-13	-47.75	-77.46	-65.68	5.52	12.60	V
Highest	1587	-65.42	-42.15	-23.27	-74.81	-68.59	4.10	9.42	H
	2380.5	-62.41	-13	-49.41	-76.62	-65.99	4.90	10.63	H
	3174	-60.61	-13	-47.61	-77.44	-65.53	5.55	12.62	H
	1587	-65.30	-42.15	-23.15	-74.88	-68.47	4.10	9.42	V
	2380.5	-62.68	-13	-49.68	-76.88	-66.26	4.90	10.63	V
	3174	-61.01	-13	-48.01	-77.82	-65.93	5.55	12.62	V

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