

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 27 Subpart Q
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : May 10, 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.



Approved by: Fly Liang



Sporton International Inc. (ShenZhen)

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People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG642201R	Rev. 01	Initial issue of report	Jun. 18, 2026

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 37.53 dB at 13964.00 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/manufacture 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 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G Module
Brand Name	Rolling Wireless
Model Name	RW135R-GL
FCC ID	2AX2URW135RGL
IMEI Code	Conducted : 359200990001763 Radiation : 359200990002126
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 MHz
SCS	30kHz
Bandwidth	n77/n78: 10 / 15 / 20
Antenna Gain	<Ant.1>: 5G NR n77/n78: 3.0 dBi <Ant.1>: 5G NR n77/n78: 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 maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP are shown in the report for Ant.1
2. 5G n77/n78 support both 5G Redcap and 5G NR SA modes, and 5G Redcap mode support power class 3, while 5G NR SA mode supports power class 2.
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. The device supports n77/n78 SRS resources on ant.1/2, only the test data of worst ant.1 is showed in the report according to the maximum power.
5. 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).

1.5 Modification of EUT

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

1.6 Maximum Conducted Power and Emission Designator

5G NR n77 SA for SCS 30kHz		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)
10	3455.01 ~ 3544.98	0.4111	8M58G7D	0.3289	8M58W7D
15	3457.50 ~ 3542.49	0.3981	13M6G7D	0.3170	13M6W7D
20	3460.02 ~ 3540.00	0.4140	18M2G7D	0.3214	18M2W7D

5G NR n78 SA for SCS 30kHz		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)
10	3455.01 ~ 3544.98	0.4121	8M58G7D	0.3311	8M58W7D
15	3457.50 ~ 3542.49	0.3873	13M6G7D	0.3083	13M6W7D
20	3460.02 ~ 3540.00	0.4130	18M2G7D	0.3251	18M2W7D

Note:

1. 5G NR Band n77 overlaps the entire frequency range of Band n78, and n77 power > n78 power, therefore the conducted test results of n77 provided in this report cover n78.
2. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Site

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	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

1.8 Test Software

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

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 27 Subpart Q
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- ♦ FCC 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

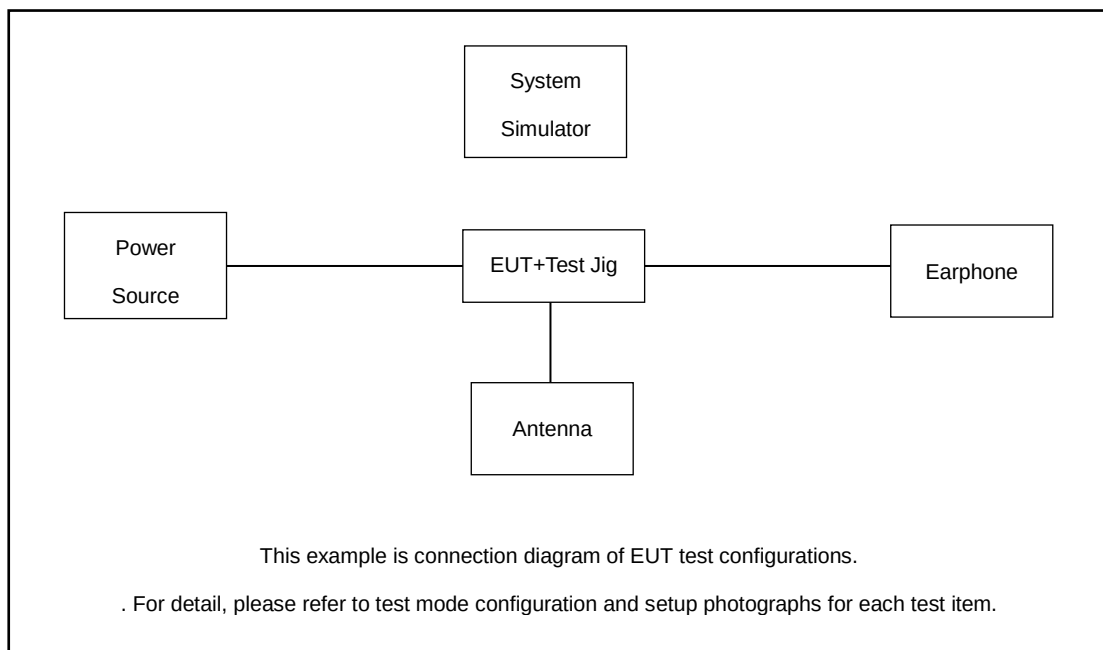
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)										Modulation					RB #		Test Channel			
		10	15	20	25	30	40	50	60	70~90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	Full	L	M	H	
Max. Output Power	n77	v	v	v	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	
	n78	v	v	v	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	
Peak-to-Average Ratio	n77			v	-	-	-	-	-	-	-	v	v					v		v		
26dB and 99% Bandwidth	n77	v	v	v	-	-	-	-	-	-	-		v	v	v	v		v		v		
Conducted Band Edge	n77	v	v	v	-	-	-	-	-	-	-	v	v				v	v	v		v	
Conducted Spurious Emission	n77	v	v	v	-	-	-	-	-	-	-	v	v				v		v	v	v	
Frequency Stability	n77			v	-	-	-	-	-	-	-		v					v		v		
E.I.R.P	n77	v	v	v	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	
	n78	v	v	v	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	
Radiated Spurious Emission	n77	Worst Case																			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 = 3.3V ; Low Voltage =3.1350V. ; High Voltage =4.4V 5. For QAM modulation mode, the whole testing has assessed 16QAM&64QAM mode by referring to the higher conducted power.																					

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	N/A	N/A	N/A	N/A	N/A
4.	Test Jig	N/A	N/A	N/A	N/A	N/A
5.	Antenna	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 and attenuator factor 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 and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.85 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB) = 5.85 + 10 = 15.85 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G n77/n78 Channel and Frequency List for SCS 30kHz				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636332
	Frequency	3455.01	3500.01	3544.98

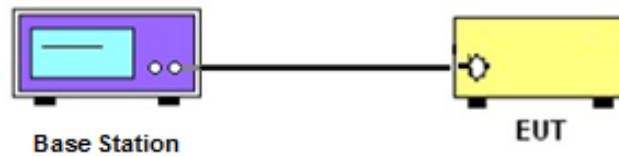
3 Conducted Test Items

3.1 Measuring Instruments

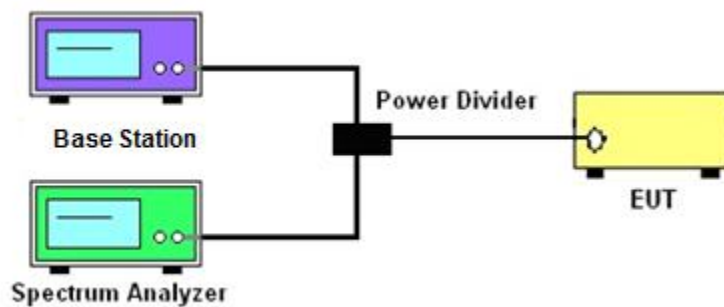
See list of measuring instruments of this test report.

3.2 Test Setup

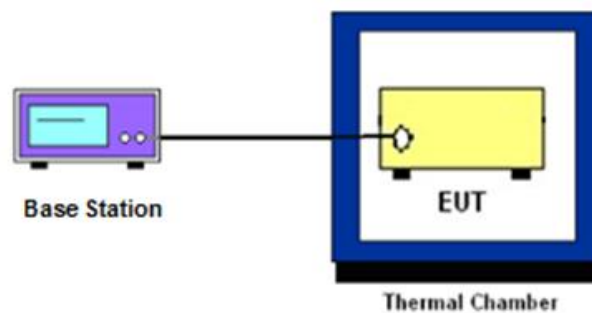
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth, Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

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.

3.4.2 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.

3.5 Peak-to-Average Ratio

3.5.1 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.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 EIRP

3.6.1 Description of EIRP Limit

§ 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. $EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, 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

3.7 Occupied Bandwidth

3.7.1 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.

3.7.2 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.

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 27.53 (n)(2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

3.8.2 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 RBW $\geq 1\%$ EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW ≥ 500 KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
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. Checked that all the results comply with the emission limit line.

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10th harmonic.

3.9.2 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. 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 RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. Checked that all the results comply with the emission limit line.

3.10 Frequency Stability Measurement

3.10.1 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.

3.10.2 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.

3.10.3 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.

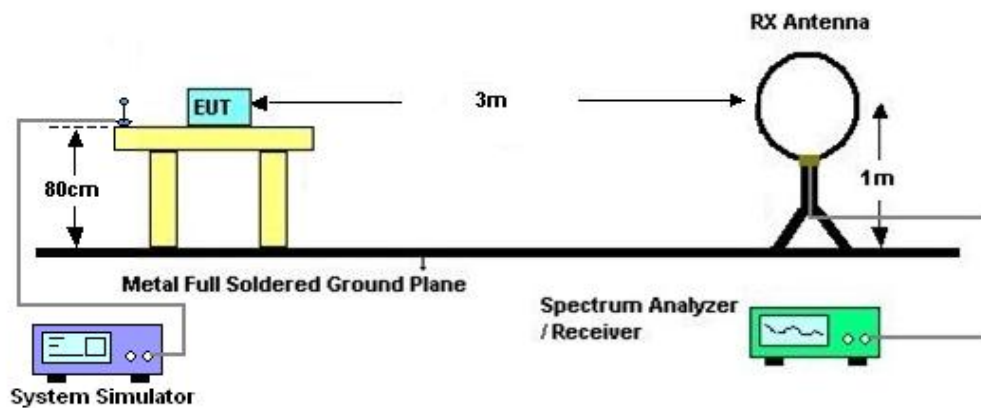
4 Radiated Test Items

4.1 Measuring Instruments

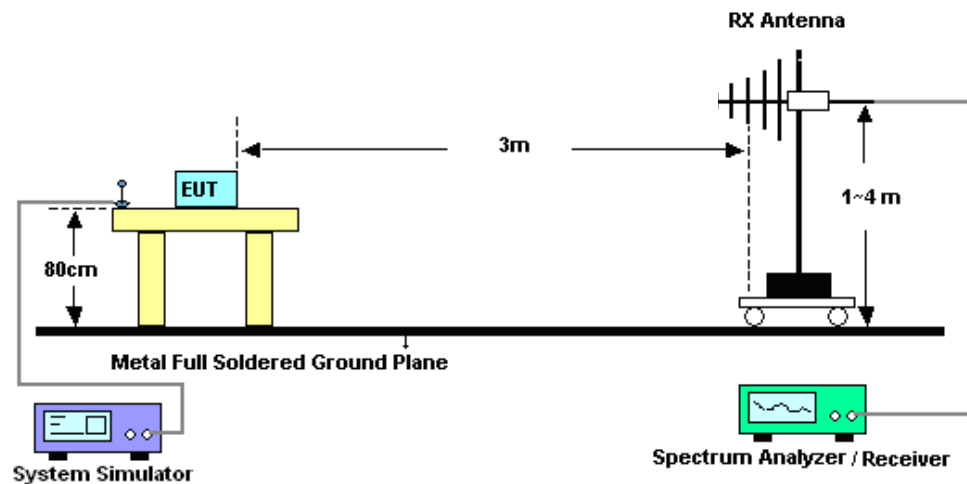
See list of measuring instruments of this test report.

4.2 Test Setup

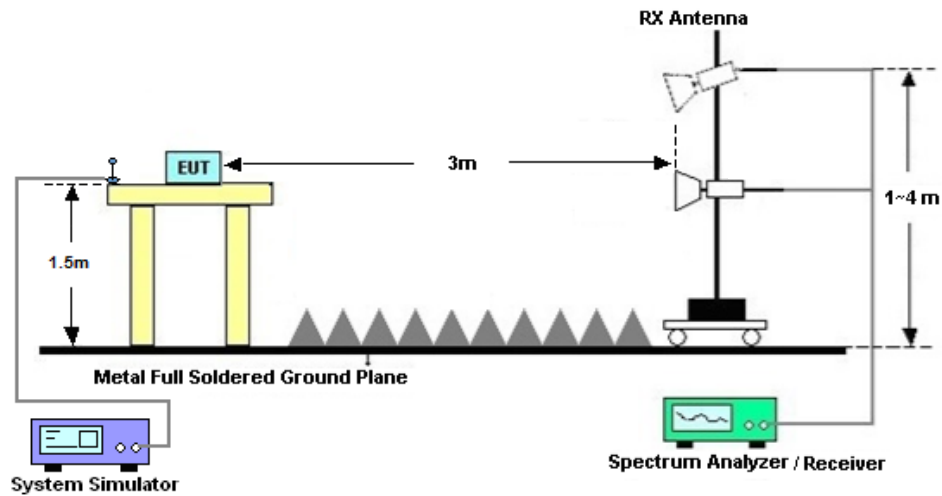
4.2.1 For radiated test below 30MHz



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 shall not exceed -13 dBm/MHz.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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.
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	May 14, 2026	Jul. 02, 2026	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 25, 2025	May 14, 2026	Dec. 24, 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)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Mar. 26, 2026	May 10, 2026	Mar. 25, 2027	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 24, 2025	May 10, 2026	Dec. 23, 2026	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 02, 2025	May 10, 2026	Jul. 01, 2026	Conducted (TH01-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 (30 MHz ~ 1000 MHz)

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

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

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

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

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

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



Appendix A. Test Results of Conducted Test

Test Engineer :	Khan Zheng	Temperature :	22~23°C
		Relative Humidity :	40~42%



Software Version: 23.06.1602

FR1 N77 (SA Mode)

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

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	12@6	26.06	29.06	0.8054
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	26.14	29.14	0.8204
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@22	25.84	28.84	0.7656
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	12@6	25.11	28.11	0.6471
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	25.17	28.17	0.6561
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@22	24.91	27.91	0.6180
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	12@6	25.8	28.8	0.7586
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.8	28.8	0.7586
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@22	25.64	28.64	0.7311
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	12@6	24.73	27.73	0.5929
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.83	27.83	0.6067
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@22	24.7	27.7	0.5888
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	12@6	25.6	28.6	0.7244
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	25.55	28.55	0.7161
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@22	25.48	28.48	0.7047
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	12@6	24.56	27.56	0.5702
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	24.64	27.64	0.5808
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@22	24.52	27.52	0.5649
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	18@9	25.86	28.86	0.7691
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	26	29	0.7943
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@36	25.68	28.68	0.7379
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	18@9	24.73	27.73	0.5929
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	25.01	28.01	0.6324
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@36	24.68	27.68	0.5861
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	18@9	25.63	28.63	0.7295
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.73	28.73	0.7464
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@36	25.5	28.5	0.7079
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	18@9	24.64	27.64	0.5808
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.72	27.72	0.5916
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@36	24.5	27.5	0.5623
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	18@9	25.38	28.38	0.6887
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	25.42	28.42	0.6950
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@36	25.25	28.25	0.6683
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	18@9	24.37	27.37	0.5458



NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	24.42	27.42	0.5521
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@36	24.31	27.31	0.5383
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	25.82	28.82	0.7621
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	26.17	29.17	0.8260
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	25.81	28.81	0.7603
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	25.77	28.77	0.7534
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	26.04	29.04	0.8017
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	25.8	28.8	0.7586
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	24.82	27.82	0.6053
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25.07	28.07	0.6412
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	24.79	27.79	0.6012
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	23.35	26.35	0.4315
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	23.51	26.51	0.4477
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	23.22	26.22	0.4188
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	21.28	24.28	0.2679
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	21.4	24.4	0.2754
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	21.01	24.01	0.2518
77	30	20	630668	3460.02	CP-OFDM QPSK	25@12	24.36	27.36	0.5445
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	24.46	27.46	0.5572
77	30	20	630668	3460.02	CP-OFDM QPSK	1@49	24.29	27.29	0.5358
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	25.77	28.77	0.7534
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.9	28.9	0.7762
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	25.74	28.74	0.7482
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	25.75	28.75	0.7499
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.95	28.95	0.7852
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	25.76	28.76	0.7516
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	24.78	27.78	0.5998
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.97	27.97	0.6266
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	24.72	27.72	0.5916
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	23.33	26.33	0.4295
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.35	26.35	0.4315
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	23.19	26.19	0.4159
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	21.23	24.23	0.2649
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.33	24.33	0.2710
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	20.95	23.95	0.2483
77	30	20	633334	3500.01	CP-OFDM QPSK	25@12	24.29	27.29	0.5358
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	24.37	27.37	0.5458
77	30	20	633334	3500.01	CP-OFDM QPSK	1@49	24.23	27.23	0.5284
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	25.92	28.92	0.7798



NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	25.89	28.89	0.7745
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	25.84	28.84	0.7656
77	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	25.93	28.93	0.7816
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	25.92	28.92	0.7798
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	25.88	28.88	0.7727
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	24.97	27.97	0.6266
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	24.91	27.91	0.6180
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	24.9	27.9	0.6166
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	23.5	26.5	0.4467
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	23.34	26.34	0.4305
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	23.32	26.32	0.4285
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	21.42	24.42	0.2767
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	21.28	24.28	0.2679
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	21.12	24.12	0.2582
77	30	20	636000	3540	CP-OFDM QPSK	25@12	24.35	27.35	0.5433
77	30	20	636000	3540	CP-OFDM QPSK	1@1	24.36	27.36	0.5445
77	30	20	636000	3540	CP-OFDM QPSK	1@49	24.39	27.39	0.5483

**Frequency Stability**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	16.5	PASS	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	14.1	PASS	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	18.4	PASS	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	15.1	PASS	-30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	14.5	PASS	-20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	12.4	PASS	-10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11.6	PASS	0℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	13	PASS	10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	13.4	PASS	20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	13.2	PASS	30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	15.1	PASS	40℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	14.7	PASS	50℃

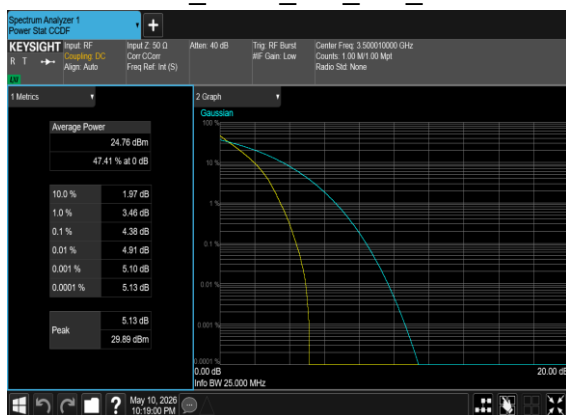
$|\text{MAX}(\Delta f)| = 18.4 \text{ Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	3450.825282	$\geq 3450 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	3549.174318	$\leq 3550 \text{ MHz}$	

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	4.38	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	5.4	13	PASS

N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



**Occupied Bandwidth**

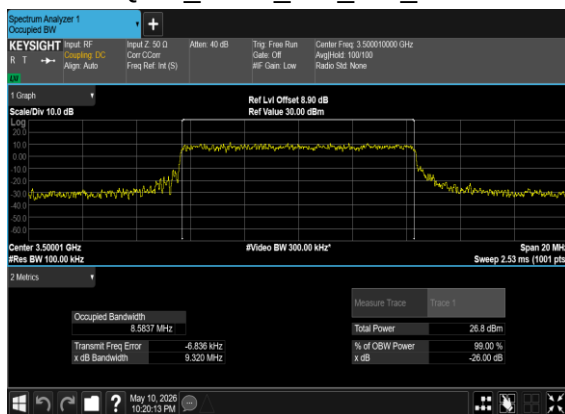
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5768	9.816
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5837	9.32
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5692	9.516
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5696	9.315
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.586	14.35
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.604	14.53
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.555	14.46
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.559	14.51
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.186	19.49
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.154	19.41
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.146	19.43
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.228	19.33



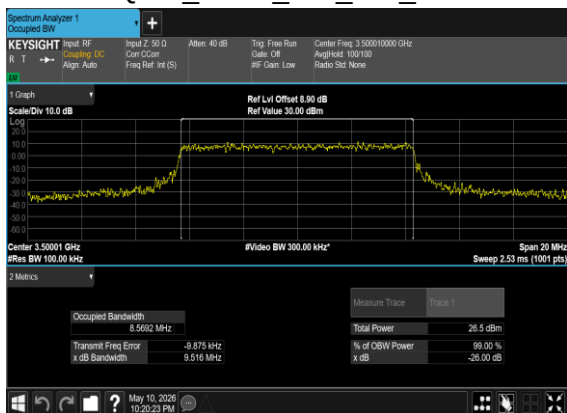
N77(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



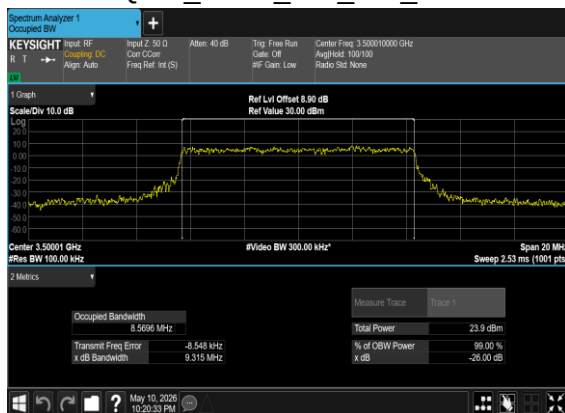
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QAM_Outer_Full_Mid_CH



N77(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

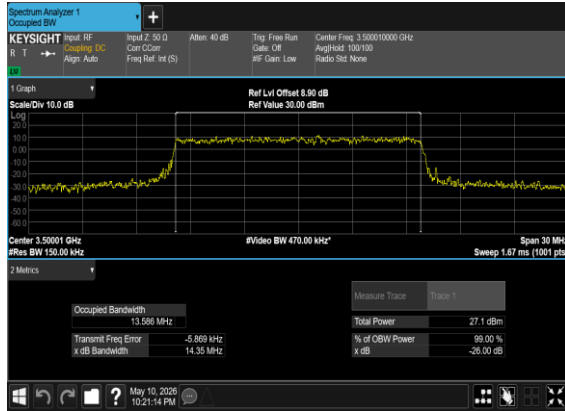


N77(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

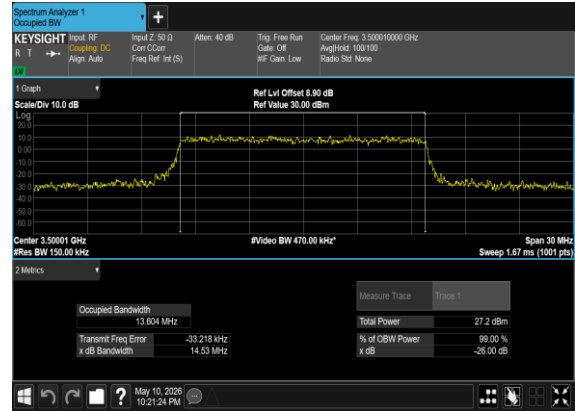




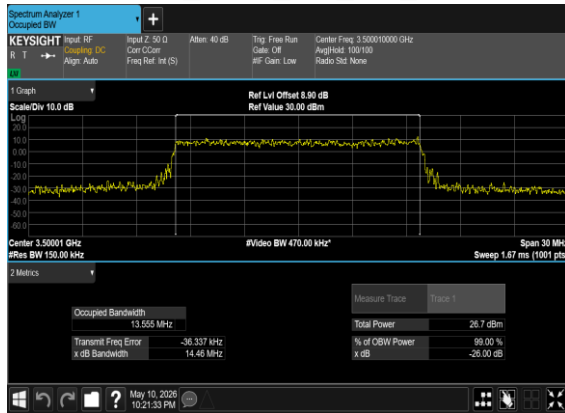
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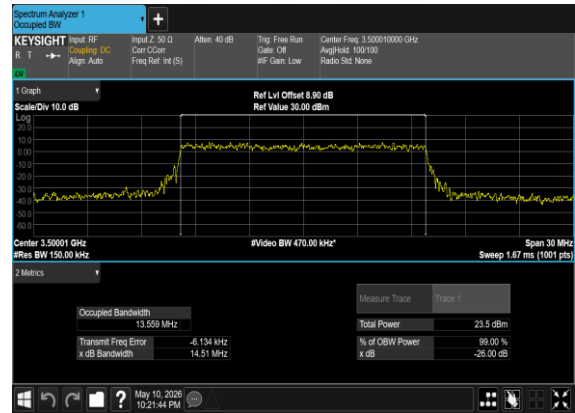
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QAM_Outer_Full_Mid_CH



N77(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

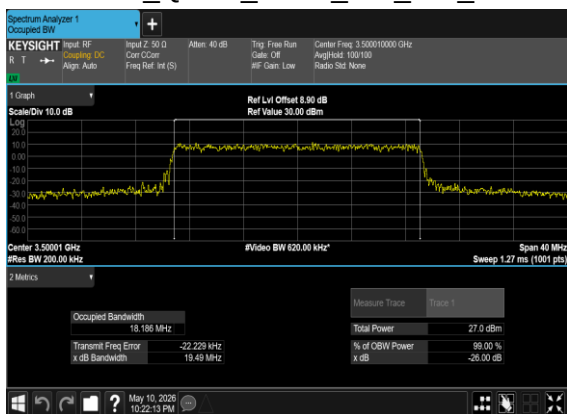


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QAM_Outer_Full_Mid_CH

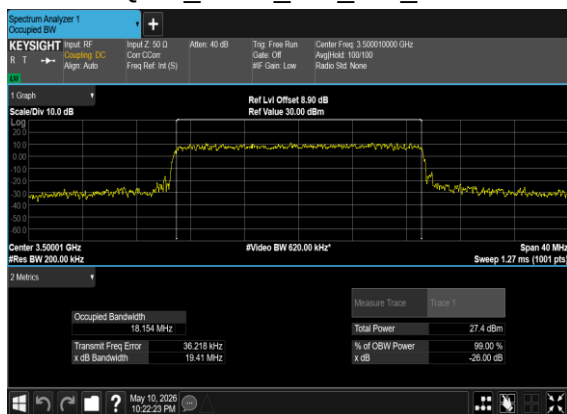




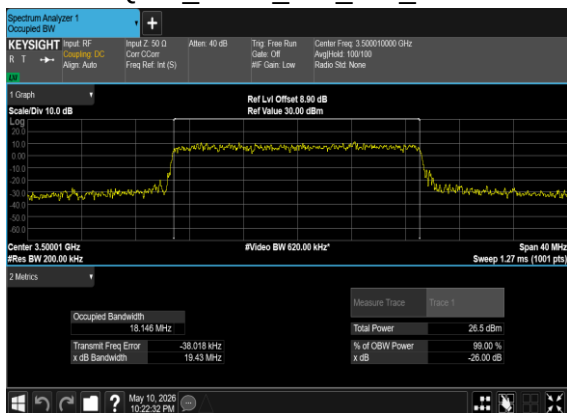
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



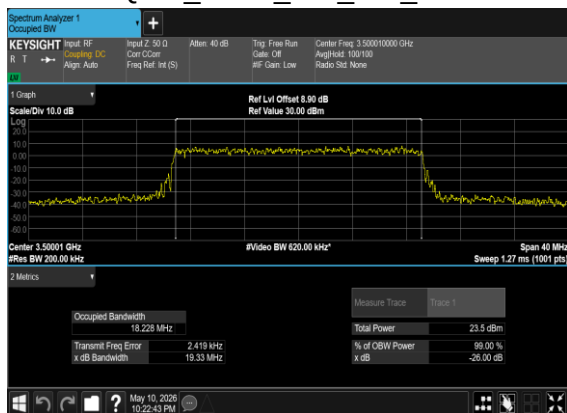
N77(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



**Conducted Spurious Emissions**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	15	630500	3457.5	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	15	630500	3457.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	15	630500	3457.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	15	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	15	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	15	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	15	636166	3542.49	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	15	636166	3542.49	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	15	636166	3542.49	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@0	see graph	PASS



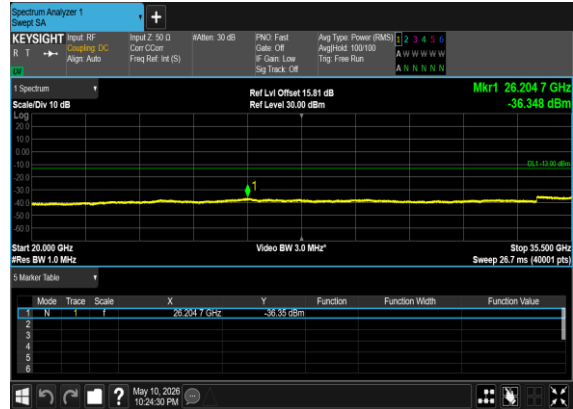
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



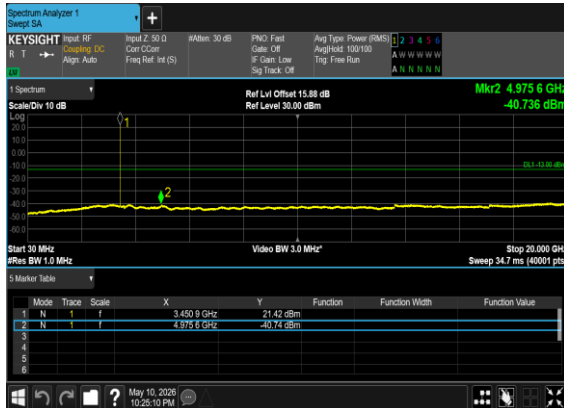
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



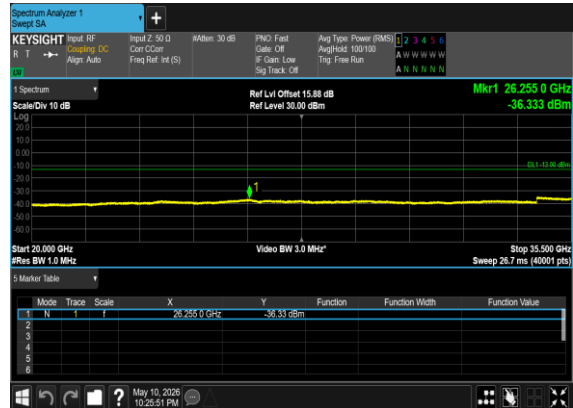
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

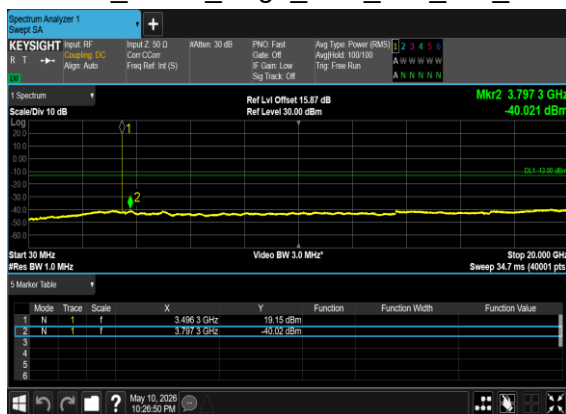
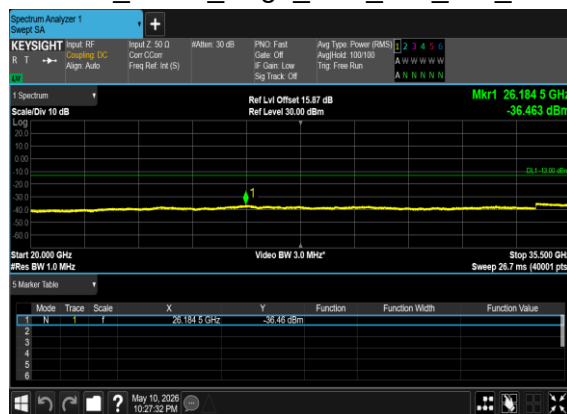
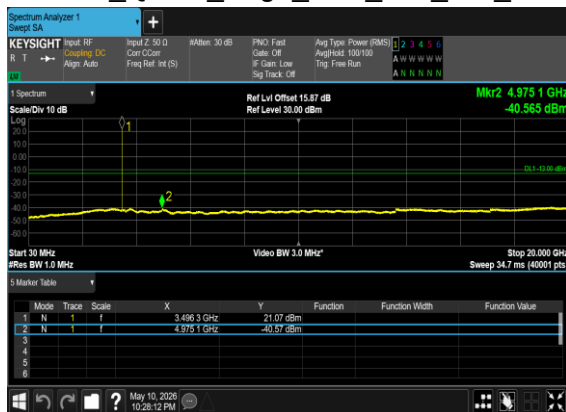
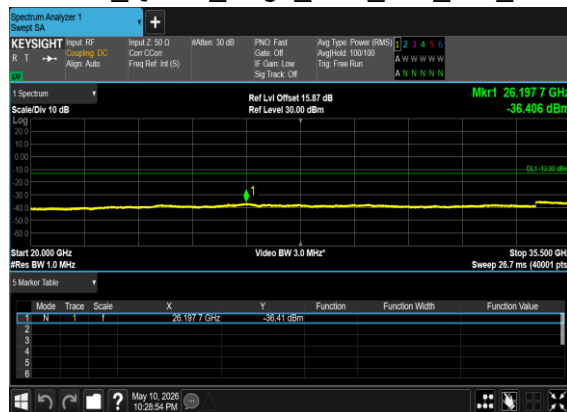


N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



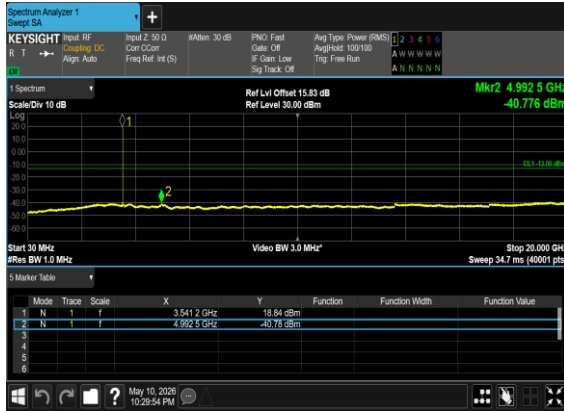
N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



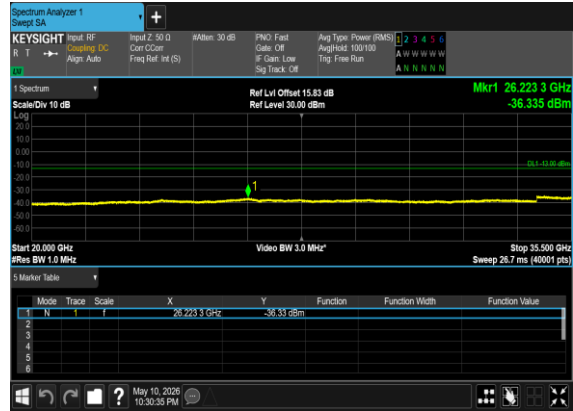
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CHN77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CHN77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

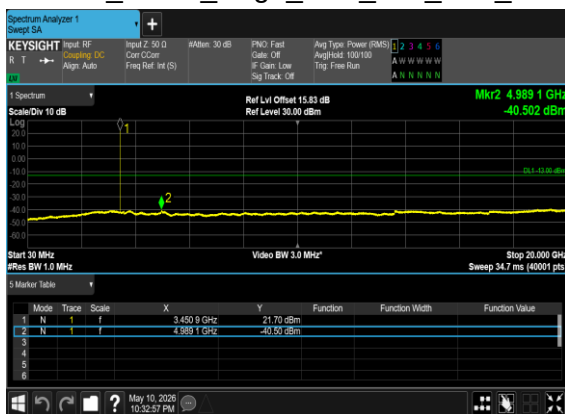


N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

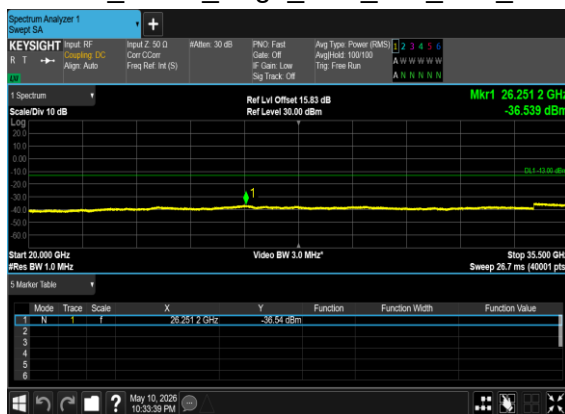




N77(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

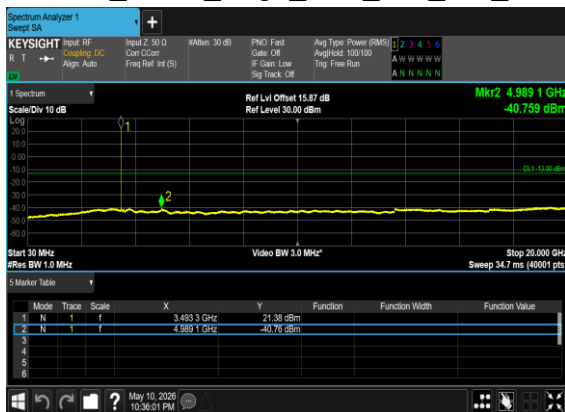
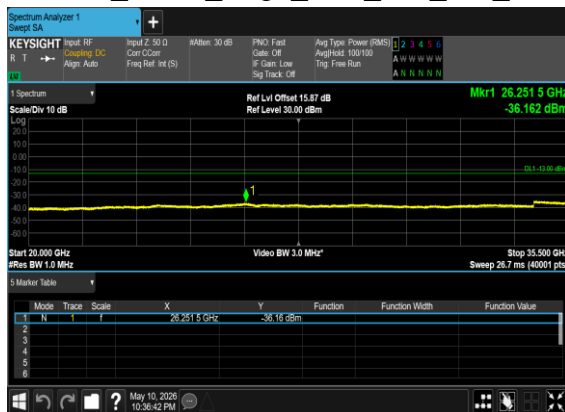
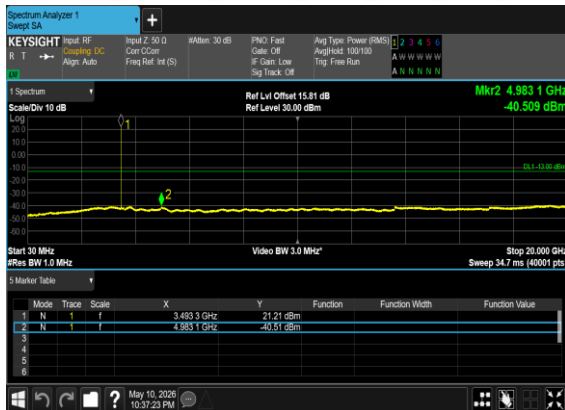
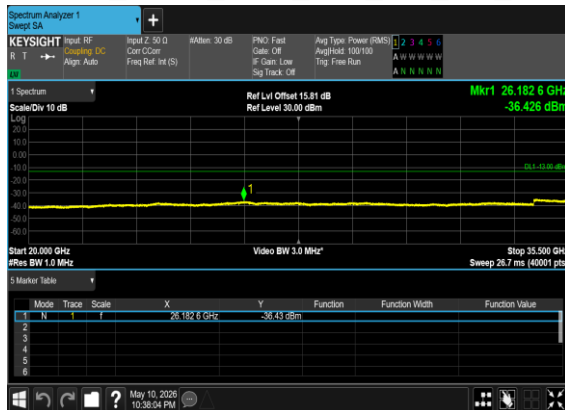


N77(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



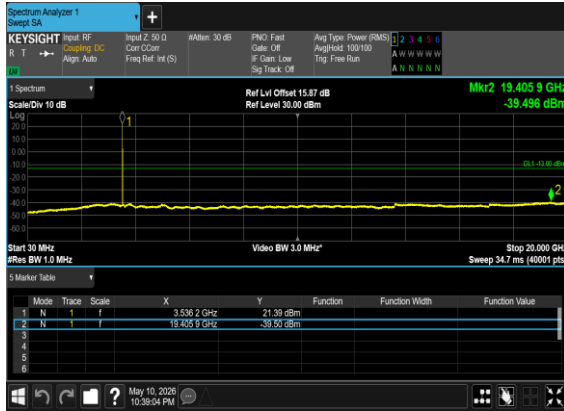
N77(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



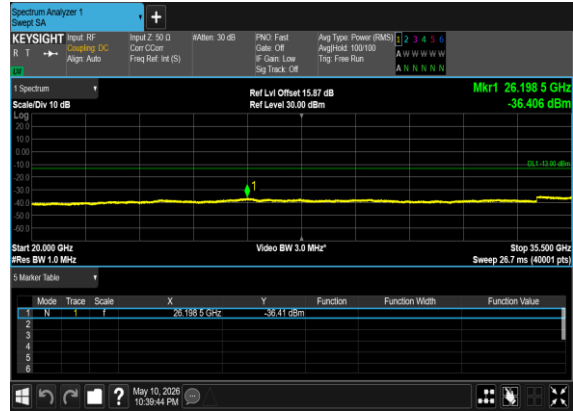
N77(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CHN77(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CHN77(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN77(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



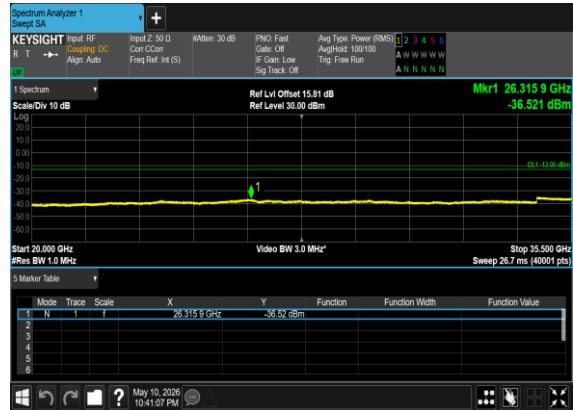
N77(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

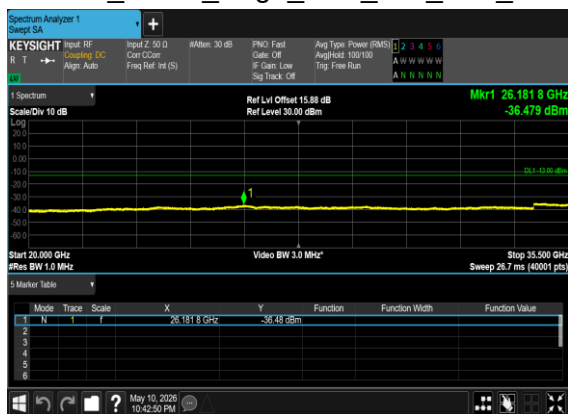
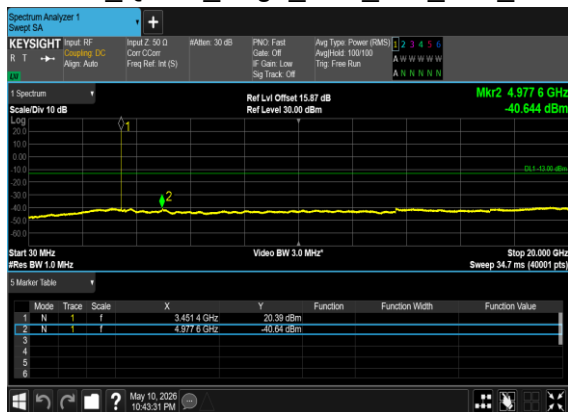
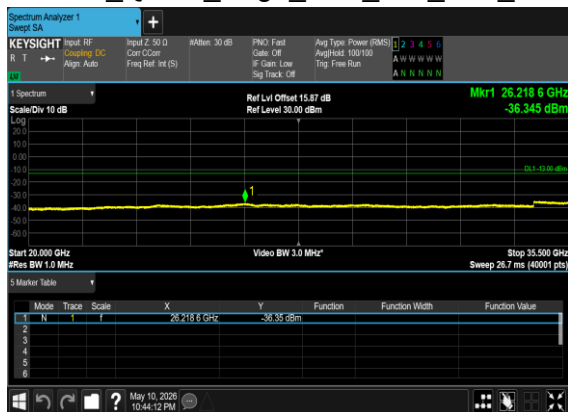


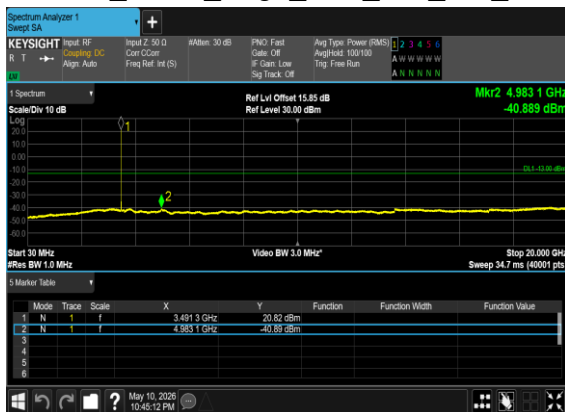
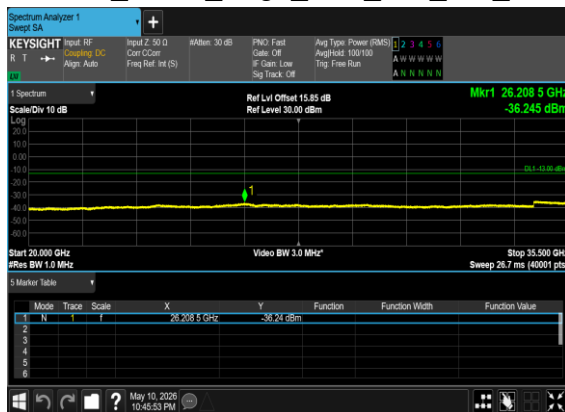
N77(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

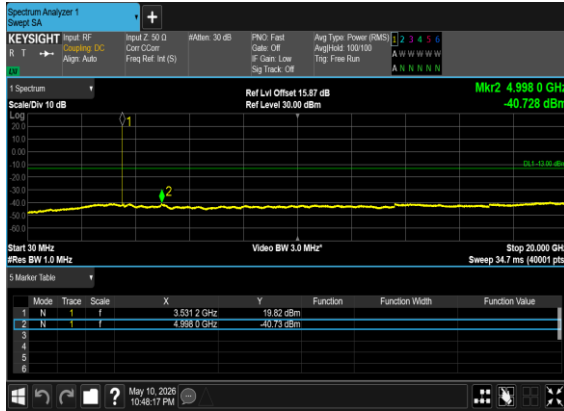


N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

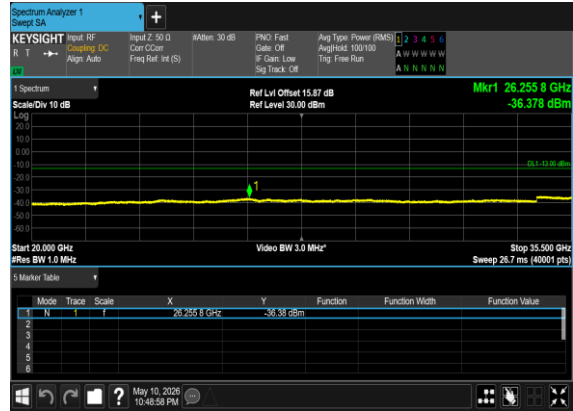
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CHN77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CHN77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



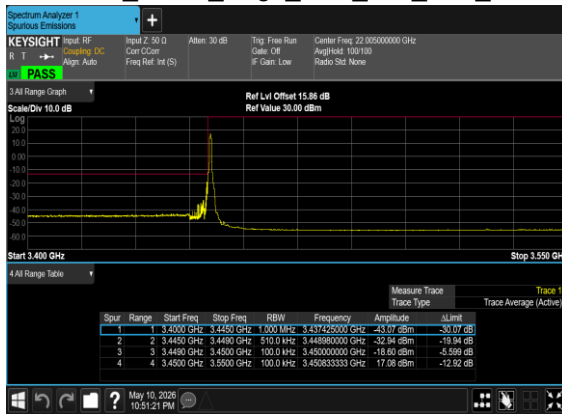


Conducted Band Edge

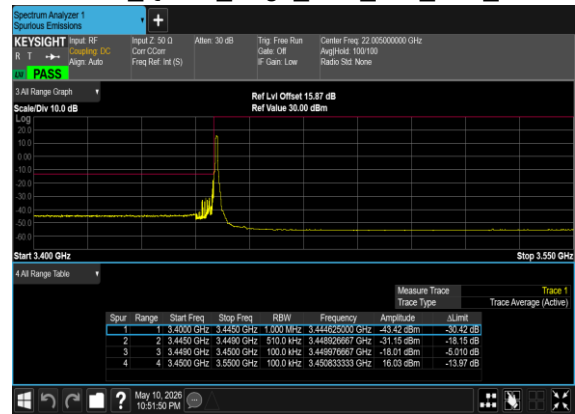
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@23	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@23	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	15	630500	3457.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	15	630500	3457.5	DFT-s-OFDM BPSK	36@0	see graph	PASS
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	36@0	see graph	PASS
77	30	15	636166	3542.49	DFT-s-OFDM BPSK	1@37	see graph	PASS
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@37	see graph	PASS
77	30	15	636166	3542.49	DFT-s-OFDM BPSK	36@0	see graph	PASS
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	36@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	50@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@50	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@50	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	see graph	PASS



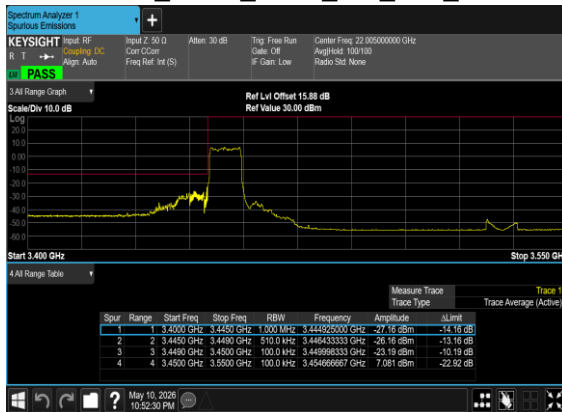
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



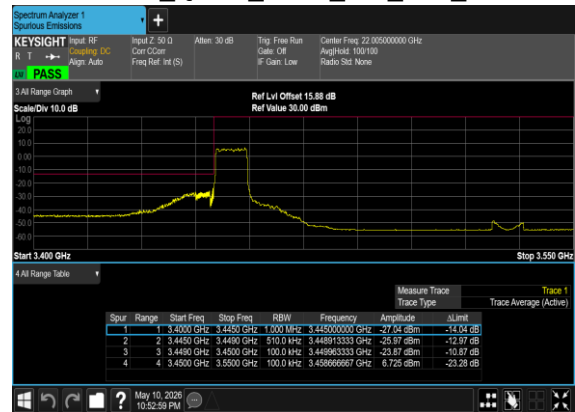
N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

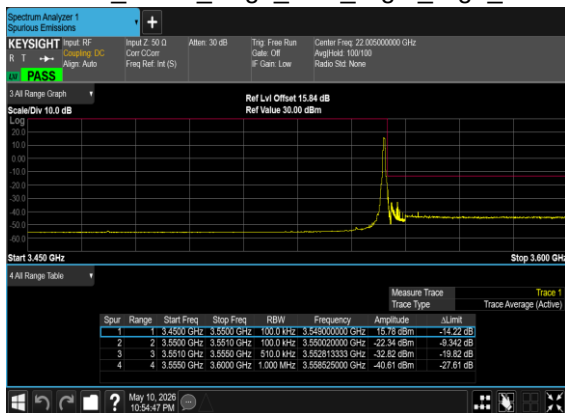


N77(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

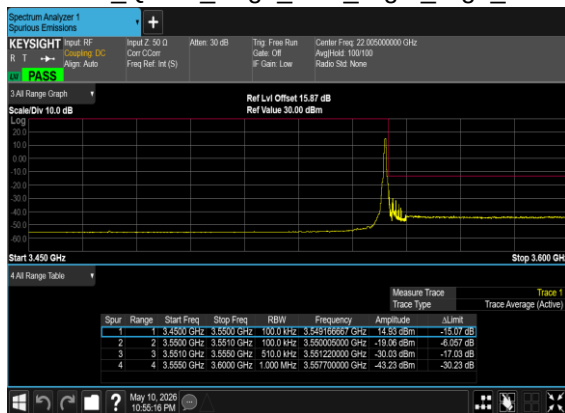




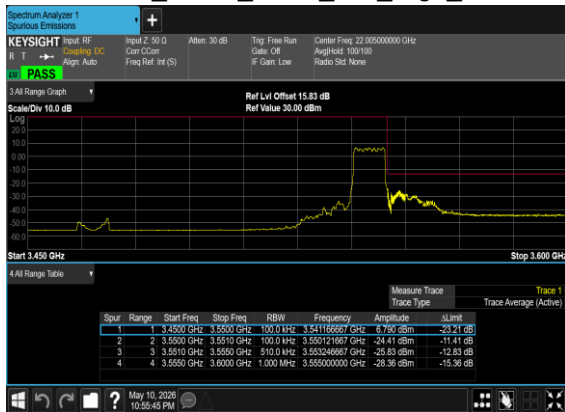
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



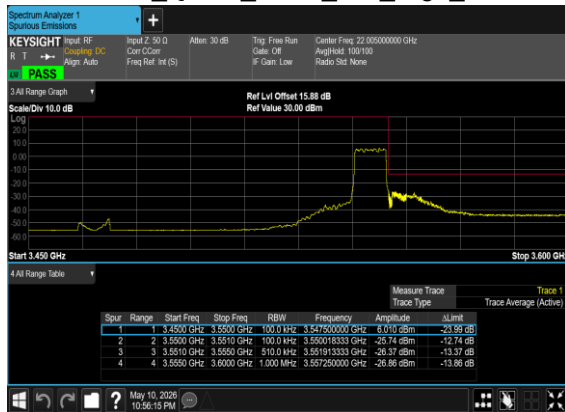
N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(10M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

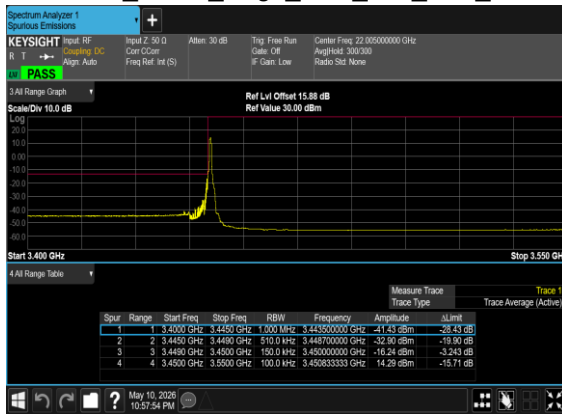


N77(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

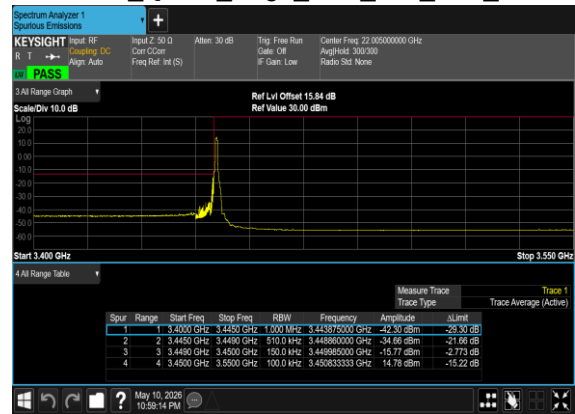




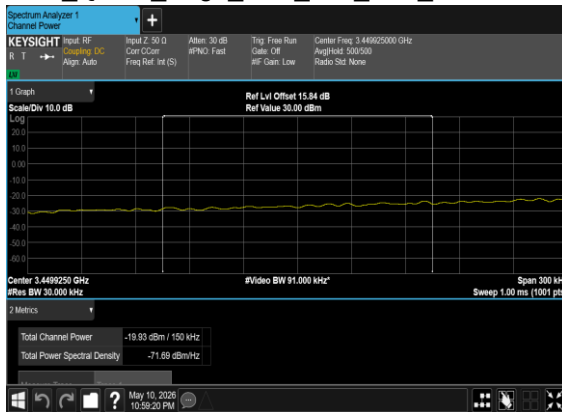
N77(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



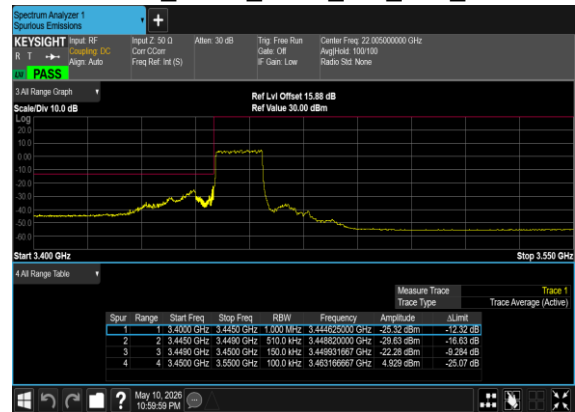
N77(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH_chP_PASS

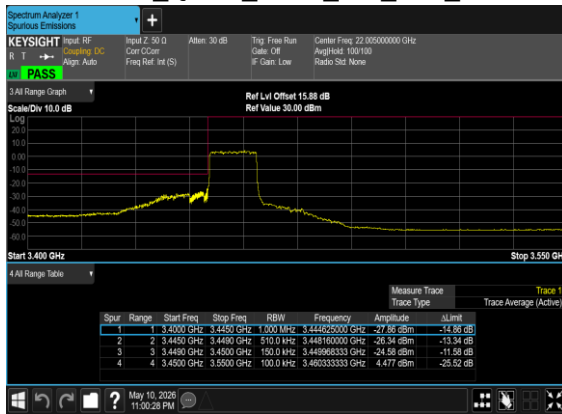


N77(15M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH





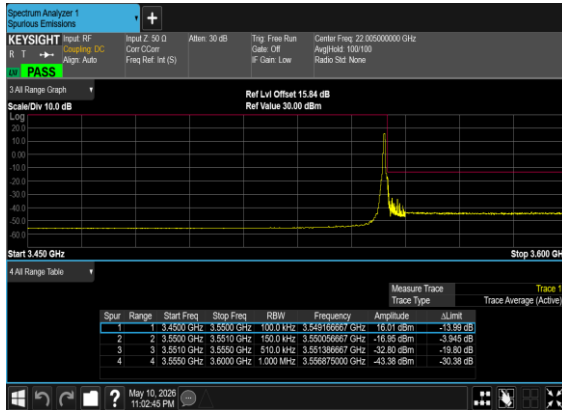
N77(15M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



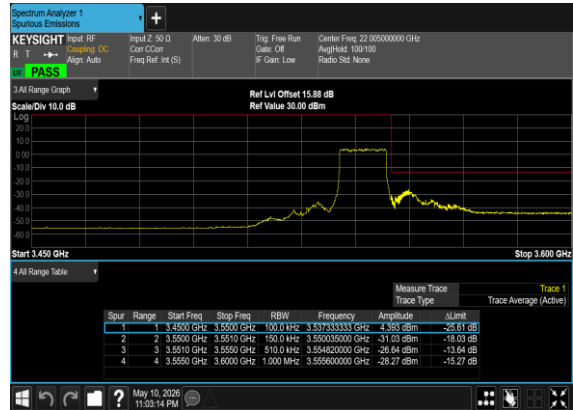
N77(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N77(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(15M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH





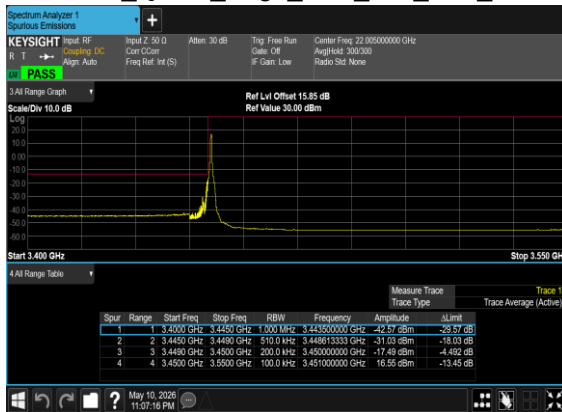
N77(15M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



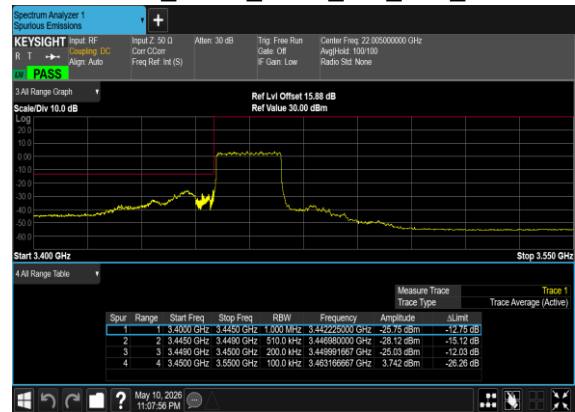
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

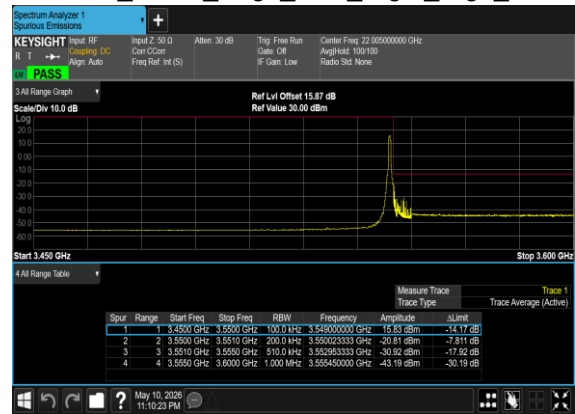




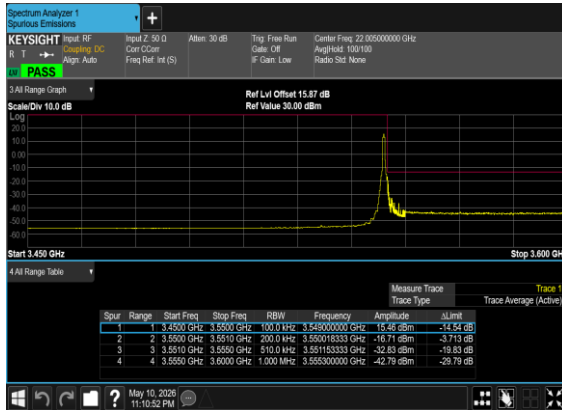
N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



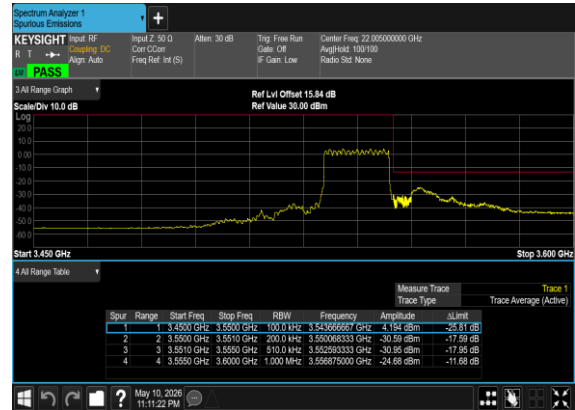
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH

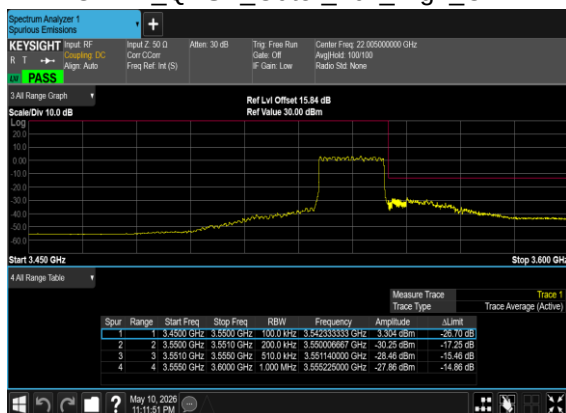


N77(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH





N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 N77 (RedCap Mode)

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

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	12@6	23.72	26.72	0.4699
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	23.75	26.75	0.4732
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@22	23.73	26.73	0.4710
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	12@6	22.64	25.64	0.3664
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	22.99	25.99	0.3972
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@22	22.84	25.84	0.3837
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	12@6	23.8	26.8	0.4786
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.86	26.86	0.4853
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@22	23.85	26.85	0.4842
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	12@6	22.83	25.83	0.3828
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.11	26.11	0.4083
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@22	23.06	26.06	0.4036
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	12@6	23.89	26.89	0.4887
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	23.9	26.9	0.4898
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@22	23.76	26.76	0.4742
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	12@6	22.89	25.89	0.3882
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	23.16	26.16	0.4130
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@22	22.97	25.97	0.3954
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	18@9	23.61	26.61	0.4581
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	23.58	26.58	0.4550
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@36	23.57	26.57	0.4539
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	18@9	22.5	25.5	0.3548
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	22.82	25.82	0.3819
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@36	22.7	25.7	0.3715
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	18@9	23.62	26.62	0.4592
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.65	26.65	0.4624
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@36	23.65	26.65	0.4624
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	18@9	22.5	25.5	0.3548
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.75	25.75	0.3758
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@36	22.79	25.79	0.3793
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	18@9	23.68	26.68	0.4656
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	23.54	26.54	0.4508
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@36	23.52	26.52	0.4487
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	18@9	22.58	25.58	0.3614
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	22.74	25.74	0.3750



NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@36	22.65	25.65	0.3673
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	23.86	26.86	0.4853
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	23.71	26.71	0.4688
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	23.64	26.64	0.4613
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	23.92	26.92	0.4920
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	23.69	26.69	0.4667
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	23.74	26.74	0.4721
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	22.85	25.85	0.3846
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	22.69	25.69	0.3707
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	22.62	25.62	0.3648
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	21.35	24.35	0.2723
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	21.08	24.08	0.2559
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	21.25	24.25	0.2661
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	19.24	22.24	0.1675
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	19.06	22.06	0.1607
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	18.89	21.89	0.1545
77	30	20	630668	3460.02	CP-OFDM QPSK	25@12	22.41	25.41	0.3475
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	22.32	25.32	0.3404
77	30	20	630668	3460.02	CP-OFDM QPSK	1@49	22.28	25.28	0.3373
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	23.78	26.78	0.4764
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.63	26.63	0.4603
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	23.59	26.59	0.4560
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	23.86	26.86	0.4853
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.78	26.78	0.4764
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	23.82	26.82	0.4808
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	22.88	25.88	0.3873
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.64	25.64	0.3664
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	22.57	25.57	0.3606
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	21.43	24.43	0.2773
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.18	24.18	0.2618
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	21.16	24.16	0.2606
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	19.25	22.25	0.1679
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.08	22.08	0.1614
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	18.97	21.97	0.1574
77	30	20	633334	3500.01	CP-OFDM QPSK	25@12	22.36	25.36	0.3436
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	22.24	25.24	0.3342
77	30	20	633334	3500.01	CP-OFDM QPSK	1@49	22.29	25.29	0.3381
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	23.84	26.84	0.4831
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	23.67	26.67	0.4645
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	23.64	26.64	0.4613
77	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	23.84	26.84	0.4831



NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	23.67	26.67	0.4645
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	23.84	26.84	0.4831
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	22.9	25.9	0.3890
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	22.73	25.73	0.3741
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	22.64	25.64	0.3664
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	21.31	24.31	0.2698
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	21.12	24.12	0.2582
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	21.32	24.32	0.2704
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	19.19	22.19	0.1656
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	18.99	21.99	0.1581
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	18.98	21.98	0.1578
77	30	20	636000	3540	CP-OFDM QPSK	25@12	22.51	25.51	0.3556
77	30	20	636000	3540	CP-OFDM QPSK	1@1	22.39	25.39	0.3459
77	30	20	636000	3540	CP-OFDM QPSK	1@49	22.2	25.2	0.3311



Software Version: 23.06.1602

FR1 N78 (SA Mode)

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

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	12@6	26.11	29.11	0.8147
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	26.15	29.15	0.8222
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@22	25.86	28.86	0.7691
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	12@6	25.17	28.17	0.6561
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	25.2	28.2	0.6607
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@22	24.89	27.89	0.6152
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	12@6	25.84	28.84	0.7656
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.85	28.85	0.7674
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@22	25.68	28.68	0.7379
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	12@6	24.9	27.9	0.6166
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.95	27.95	0.6237
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@22	24.72	27.72	0.5916
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	12@6	25.92	28.92	0.7798
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	26	29	0.7943
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@22	25.94	28.94	0.7834
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	12@6	25.03	28.03	0.6353
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	24.94	27.94	0.6223
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@22	25.01	28.01	0.6324
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	18@9	25.79	28.79	0.7568
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	25.88	28.88	0.7727
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@36	25.56	28.56	0.7178
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	18@9	24.73	27.73	0.5929
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	24.89	27.89	0.6152
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@36	24.6	27.6	0.5754
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	18@9	25.67	28.67	0.7362
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.77	28.77	0.7534
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@36	25.6	28.6	0.7244
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	18@9	24.68	27.68	0.5861
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.77	27.77	0.5984
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@36	24.59	27.59	0.5741
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	18@9	25.44	28.44	0.6982
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	25.4	28.4	0.6918
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@36	25.36	28.36	0.6855



78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	18@9	24.32	27.32	0.5395
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	24.45	27.45	0.5559
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@36	24.38	27.38	0.5470
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	25.88	28.88	0.7727
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	26.09	29.09	0.8110
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	25.84	28.84	0.7656
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	25.84	28.84	0.7656
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	26.16	29.16	0.8241
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	25.87	28.87	0.7709
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	24.87	27.87	0.6124
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25.12	28.12	0.6486
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	24.86	27.86	0.6109
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	23.41	26.41	0.4375
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	23.57	26.57	0.4539
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	23.32	26.32	0.4285
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	21.37	24.37	0.2735
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	21.46	24.46	0.2793
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	21.06	24.06	0.2547
78	30	20	630668	3460.02	CP-OFDM QPSK	25@12	24.41	27.41	0.5508
78	30	20	630668	3460.02	CP-OFDM QPSK	1@1	24.57	27.57	0.5715
78	30	20	630668	3460.02	CP-OFDM QPSK	1@49	24.37	27.37	0.5458
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	25.86	28.86	0.7691
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26	29	0.7943
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	25.75	28.75	0.7499
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	25.86	28.86	0.7691
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.97	28.97	0.7889
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	25.74	28.74	0.7482
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	24.93	27.93	0.6209
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.02	28.02	0.6339
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	24.78	27.78	0.5998
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	23.48	26.48	0.4446
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.56	26.56	0.4529
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	23.37	26.37	0.4335
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	21.24	24.24	0.2655
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.35	24.35	0.2723
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	20.95	23.95	0.2483
78	30	20	633334	3500.01	CP-OFDM QPSK	25@12	24.43	27.43	0.5534
78	30	20	633334	3500.01	CP-OFDM QPSK	1@1	24.43	27.43	0.5534
78	30	20	633334	3500.01	CP-OFDM QPSK	1@49	24.2	27.2	0.5248



78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	25.99	28.99	0.7925
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	25.94	28.94	0.7834
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	25.94	28.94	0.7834
78	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	25.96	28.96	0.7870
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	25.97	28.97	0.7889
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	25.92	28.92	0.7798
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	24.96	27.96	0.6252
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	24.99	27.99	0.6295
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	24.94	27.94	0.6223
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	23.49	26.49	0.4457
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	23.44	26.44	0.4406
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	23.37	26.37	0.4335
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	21.47	24.47	0.2799
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	21.32	24.32	0.2704
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	21.13	24.13	0.2588
78	30	20	636000	3540	CP-OFDM QPSK	25@12	24.52	27.52	0.5649
78	30	20	636000	3540	CP-OFDM QPSK	1@1	24.39	27.39	0.5483
78	30	20	636000	3540	CP-OFDM QPSK	1@49	24.39	27.39	0.5483



Software Version: 23.06.1602

FR1 N78 (RedCap Mode)

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

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	12@6	23.58	26.58	0.4550
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	23.67	26.67	0.4645
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@22	23.69	26.69	0.4667
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	12@6	22.65	25.65	0.3673
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	22.69	25.69	0.3707
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@22	22.8	25.8	0.3802
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	12@6	23.76	26.76	0.4742
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.78	26.78	0.4764
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@22	23.85	26.85	0.4842
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	12@6	22.73	25.73	0.3741
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.84	25.84	0.3837
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@22	22.96	25.96	0.3945
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	12@6	23.55	26.55	0.4519
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	23.6	26.6	0.4571
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@22	23.66	26.66	0.4634
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	12@6	22.57	25.57	0.3606
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	22.71	25.71	0.3724
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@22	22.78	25.78	0.3784
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	18@9	23.64	26.64	0.4613
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	23.55	26.55	0.4519
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@36	23.47	26.47	0.4436
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	18@9	22.59	25.59	0.3622
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	22.35	25.35	0.3428
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@36	22.6	25.6	0.3631
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	18@9	23.7	26.7	0.4677
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.46	26.46	0.4426
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@36	23.57	26.57	0.4539
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	18@9	22.67	25.67	0.3690
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.25	25.25	0.3350
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@36	22.56	25.56	0.3597
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	18@9	23.63	26.63	0.4603
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	23.63	26.63	0.4603
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@36	23.53	26.53	0.4498
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	18@9	22.69	25.69	0.3707
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	22.39	25.39	0.3459



NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@36	22.63	25.63	0.3656
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	23.8	26.8	0.4786
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	23.7	26.7	0.4677
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	23.73	26.73	0.4710
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	23.87	26.87	0.4864
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	23.71	26.71	0.4688
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	23.75	26.75	0.4732
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	22.84	25.84	0.3837
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	22.77	25.77	0.3776
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	22.62	25.62	0.3648
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	21.45	24.45	0.2786
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	21.07	24.07	0.2553
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	21.26	24.26	0.2667
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	19.28	22.28	0.1690
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	19.13	22.13	0.1633
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	18.85	21.85	0.1531
78	30	20	630668	3460.02	CP-OFDM QPSK	25@12	22.33	25.33	0.3412
78	30	20	630668	3460.02	CP-OFDM QPSK	1@1	22.25	25.25	0.3350
78	30	20	630668	3460.02	CP-OFDM QPSK	1@49	22.21	25.21	0.3319
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	23.9	26.9	0.4898
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.77	26.77	0.4753
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	23.64	26.64	0.4613
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	23.79	26.79	0.4775
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.77	26.77	0.4753
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	23.69	26.69	0.4667
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	22.93	25.93	0.3917
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.79	25.79	0.3793
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	22.62	25.62	0.3648
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	21.46	24.46	0.2793
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.11	24.11	0.2576
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	21.26	24.26	0.2667
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	19.29	22.29	0.1694
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.03	22.03	0.1596
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	18.75	21.75	0.1496
78	30	20	633334	3500.01	CP-OFDM QPSK	25@12	22.28	25.28	0.3373
78	30	20	633334	3500.01	CP-OFDM QPSK	1@1	22.17	25.17	0.3289
78	30	20	633334	3500.01	CP-OFDM QPSK	1@49	22.14	25.14	0.3266
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	23.7	26.7	0.4677
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	23.6	26.6	0.4571
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	23.68	26.68	0.4656
78	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	23.78	26.78	0.4764



NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	23.72	26.72	0.4699
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	23.73	26.73	0.4710
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	22.76	25.76	0.3767
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	22.72	25.72	0.3733
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	22.7	25.7	0.3715
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	21.53	24.53	0.2838
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	21.05	24.05	0.2541
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	21.23	24.23	0.2649
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	19.25	22.25	0.1679
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	19.16	22.16	0.1644
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	18.93	21.93	0.1560
78	30	20	636000	3540	CP-OFDM QPSK	25@12	22.36	25.36	0.3436
78	30	20	636000	3540	CP-OFDM QPSK	1@1	22.27	25.27	0.3365
78	30	20	636000	3540	CP-OFDM QPSK	1@49	22.14	25.14	0.3266

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	LiangPing Zhou	Temperature :	22~25°C
		Relative Humidity :	48~52%

n77 SA / NR 20MHz / QPSK(PC2)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6982.00	-57.15	-13	-44.15	-49.71	-60.45	8.30	11.60	H
	10473.00	-54.36	-13	-41.36	-53.59	-55.88	10.48	12.00	H
	13964.00	-50.53	-13	-37.53	-54.06	-52.23	11.80	13.50	H
	6982.00	-56.60	-13	-43.60	-49.62	-59.90	8.30	11.60	V
	10473.00	-54.82	-13	-41.82	-53.44	-56.34	10.48	12.00	V
	13964.00	-50.94	-13	-37.94	-54.08	-52.64	11.80	13.50	V

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