

FCC RF Test Report

APPLICANT : Fibocom Wireless Inc.
EQUIPMENT : 5G Module
BRAND NAME : Fibocom
MODEL NAME : FM350-GL
FCC ID : ZMOFM350GL
STANDARD : 47 CFR Part 27 Subpart Q
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Mar. 20, 2025 ~ Mar. 27, 2025

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.

Jason Jia

Approved by: Jason Jia



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
FG531822C	Rev. 01	Initial issue of report	Mar. 28, 2025

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)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.6	§2.1049	Occupied Bandwidth	—	Report Only	-
3.7	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-

Note: This is a variant report, to enable BW 20M/50MHz for n41 SCS 15k, BW 20M/60M/90MHz for n41 SCS 30k, BW 40M/50MHz for n77/n78 SCS 15k & BW 90MHz for n77/n78 SCS 30k by software. According to the change, only the related test cases were verified on the basis of the original report FG051802-21A.

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

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China.

1.2 Manufacturer

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G Module
Brand Name	Fibocom
Model Name	FM350-GL
FCC ID	ZMOFM350GL
IMEI Code	Conducted : 862146050687837
HW Version	V1.0.6
SW Version	81600.0000.00.29.24.01
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77/n78: 3450 MHz ~ 3550 MHz
Bandwidth	5G NR n77/n78 : SCS 15kHz: 10MHz / 15MHz / 20MHz / 40MHz / 50MHz SCS 30kHz: 10MHz / 15MHz / 20MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz
SCS	15kHz, 30kHz
Antenna Gain	5G NR n77 : 3.0 dBi 5G NR 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. 5G NR n77/n78 support HPUE mode for single carrier.
2. 5G NR n77/n78 support SA and NSA mode. The whole testing has assessed SA mode by referring to the higher conducted power for conducted test items.

3. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power is shown in the report.
4. 5G NR n77/n78 support UL MIMO mode, and only supports CP-OFDM modulation in UL MIMO mode.

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 – SCS 15k		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)
40	3470.01 ~ 3529.995	0.3184	38M4G7D	0.2415	38M5W7D
50	3475.005 ~ 3525.00	0.3170	48M2G7D	0.2421	48M2W7D

5G NR n77 – SCS 30k		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)
90	3495.00 ~ 3504.99	0.3327	87M4G7D	0.2535	87M6W7D

5G NR n78 – SCS 15k		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)
40	3470.01 ~ 3529.995	0.3741	38M6G7D	0.2871	38M6W7D
50	3475.005 ~ 3525.00	0.3698	48M2G7D	0.2891	48M3W7D

5G NR n78 – SCS 30k		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)
90	3495.00 ~ 3504.99	0.3597	87M5G7D	0.2773	87M6W7D

5G NR n77 – SCS 15k UL MIMO		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)
40	3470.01 ~ 3529.995	0.1919	38M6G7D	0.1722	38M6W7D
50	3475.005 ~ 3525.00	0.1991	48M3G7D	0.1791	48M4W7D

5G NR n77 – SCS 30k UL MIMO		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)
90	3495.00 ~ 3504.99	0.2163	87M7G7D	0.1932	87M6W7D

5G NR n78 – SCS 15k UL MIMO		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)
40	3470.01 ~ 3529.995	0.2512	38M6G7D	0.2249	38M6W7D
50	3475.005 ~ 3525.00	0.2483	48M2G7D	0.2239	48M3W7D

5G NR n78 – SCS 30k UL MIMO		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)
90	3495.00 ~ 3504.99	0.2506	87M5G7D	0.2249	87M6W7D

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

1.7 Testing Site

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	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	CN1256	421272

1.8 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: All test items were verified and recorded according to the standards and without any deviation during the test.

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.

Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	5G n77	40M, 50M, 90M	PI/2 BPSK, QPSK, 16QAM,	1RB, Full RB	L, M, H
	5G n78	40M, 50M, 90M	PI/2 BPSK, QPSK, 16QAM,	1RB, Full RB	L, M, H
E.I.R.P	5G n77	40M, 50M, 90M	PI/2 BPSK, QPSK, 16QAM,	1RB, Full RB	L, M, H
	5G n78	40M, 50M, 90M	PI/2 BPSK, QPSK, 16QAM,	1RB, Full RB	L, M, H
26dB and 99% Bandwidth	5G n77	40M, 50M, 90M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
	5G n78	40M, 50M, 90M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
Conducted Band Edge	5G n77	40M, 50M, 90M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
	5G n78	40M, 50M, 90M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	5G n77	40M, 50M, 90M	PI/2 BPSK, QPSK	1RB	L, M, H
	5G n78	40M, 50M, 90M	PI/2 BPSK, QPSK	1RB	L, M, H

Note: All test items are based on engineering evaluation.

2.2 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 8.88 dB and 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 8.88 + 10 = 18.88 \text{ (dB)}
 \end{aligned}$$

2.3 Frequency List of Low/Middle/High Channels

5G n77/n78 Channel and Frequency List for SCS 15kHz				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	631667	633334	635000
	Frequency	3475.005	3500.01	3525
40	Channel	631334	633334	635333
	Frequency	3470.01	3500.01	3529.995

5G n77/n78 Channel and Frequency List for SCS 30kHz				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99

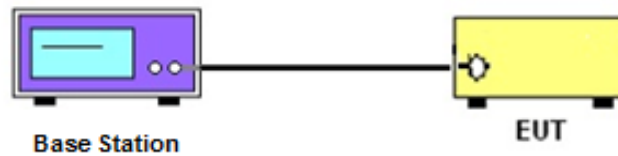
3 Conducted Test Items

3.1 Measuring Instruments

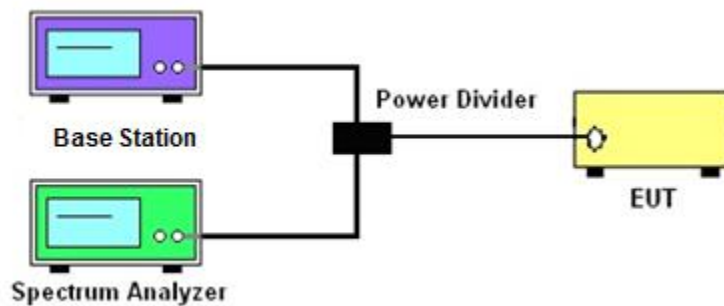
See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.2.2 Occupied / 26dB Bandwidth, Band-Edge and Conducted Spurious Emission



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 EIRP

3.5.1 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

3.5.2 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

3.6 Occupied Bandwidth

3.6.1 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.

3.6.2 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.

3.7 Conducted Band Edge Measurement

3.7.1 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.

3.7.2 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.

3.8 Conducted Spurious Emission Measurement

3.8.1 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.

3.8.2 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 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.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Mar. 20, 2025~ Mar. 27, 2025	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 24, 2024	Mar. 20, 2025~ Mar. 27, 2025	Dec. 23, 2025	Conducted (TH01-SZ)

5 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB

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



Appendix A. Test Results of Conducted Test

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



Software Version: 23.06.1602

FR1 N77 MIMO ANT(M+M2) - SCS 15k**Transmitter Conducted Output Power and EIRP, (GT - LC)=3.0dB**

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	ANTM2 Power (dBm)	ANTM Power (dBm)	Conducted Power(dBm)	Conducted Power(W)	EIRP (dBm)	EIRP (W)
77	15	40	631334	3470.01	CP-OFDM QPSK	108@54	19.93	19.7	22.83	0.1919	25.83	0.3828
77	15	40	631334	3470.01	CP-OFDM QPSK	1@1	19.59	19.32	22.47	0.1766	25.47	0.3524
77	15	40	631334	3470.01	CP-OFDM QPSK	1@214	19.81	19.49	22.66	0.1845	25.66	0.3681
77	15	40	631334	3470.01	CP-OFDM 16 QAM	108@54	19.54	19.09	22.33	0.1710	25.33	0.3412
77	15	40	631334	3470.01	CP-OFDM 16 QAM	1@1	19.23	18.68	21.97	0.1574	24.97	0.3141
77	15	40	631334	3470.01	CP-OFDM 16 QAM	1@214	19.33	18.82	22.09	0.1618	25.09	0.3228
77	15	40	633334	3500.01	CP-OFDM QPSK	108@54	19.95	19.56	22.77	0.1892	25.77	0.3776
77	15	40	633334	3500.01	CP-OFDM QPSK	1@1	19.62	19.33	22.49	0.1774	25.49	0.3540
77	15	40	633334	3500.01	CP-OFDM QPSK	1@214	19.67	19.62	22.66	0.1845	25.66	0.3681
77	15	40	633334	3500.01	CP-OFDM 16 QAM	108@54	19.5	19.2	22.36	0.1722	25.36	0.3436
77	15	40	633334	3500.01	CP-OFDM 16 QAM	1@1	19.27	18.8	22.05	0.1603	25.05	0.3199
77	15	40	633334	3500.01	CP-OFDM 16 QAM	1@214	19.13	19.2	22.18	0.1652	25.18	0.3296
77	15	40	635333	3529.995	CP-OFDM QPSK	108@54	19.9	19.73	22.83	0.1919	25.83	0.3828
77	15	40	635333	3529.995	CP-OFDM QPSK	1@1	19.67	19.5	22.6	0.1820	25.60	0.3631
77	15	40	635333	3529.995	CP-OFDM QPSK	1@214	19.72	19.47	22.61	0.1824	25.61	0.3639
77	15	40	635333	3529.995	CP-OFDM 16 QAM	108@54	19.38	19.31	22.36	0.1722	25.36	0.3436
77	15	40	635333	3529.995	CP-OFDM 16 QAM	1@1	19.26	18.83	22.06	0.1607	25.06	0.3206
77	15	40	635333	3529.995	CP-OFDM 16 QAM	1@214	19.26	19.09	22.19	0.1656	25.19	0.3304
77	15	50	631667	3475.005	CP-OFDM QPSK	135@67	19.88	19.47	22.69	0.1858	25.69	0.3707
77	15	50	631667	3475.005	CP-OFDM QPSK	1@1	19.82	19.47	22.66	0.1845	25.66	0.3681
77	15	50	631667	3475.005	CP-OFDM QPSK	1@268	20.02	19.66	22.85	0.1928	25.85	0.3846
77	15	50	631667	3475.005	CP-OFDM 16 QAM	135@67	19.41	18.97	22.21	0.1663	25.21	0.3319
77	15	50	631667	3475.005	CP-OFDM 16 QAM	1@1	19.34	19.07	22.22	0.1667	25.22	0.3327
77	15	50	631667	3475.005	CP-OFDM 16 QAM	1@268	19.43	19.34	22.4	0.1738	25.40	0.3467
77	15	50	633334	3500.01	CP-OFDM QPSK	135@67	20.02	19.64	22.84	0.1923	25.84	0.3837
77	15	50	633334	3500.01	CP-OFDM QPSK	1@1	19.92	19.57	22.76	0.1888	25.76	0.3767
77	15	50	633334	3500.01	CP-OFDM QPSK	1@268	20.02	19.93	22.99	0.1991	25.99	0.3972
77	15	50	633334	3500.01	CP-OFDM 16 QAM	135@67	19.51	19.26	22.4	0.1738	25.40	0.3467
77	15	50	633334	3500.01	CP-OFDM 16 QAM	1@1	19.47	19.2	22.35	0.1718	25.35	0.3428
77	15	50	633334	3500.01	CP-OFDM 16 QAM	1@268	19.43	19.6	22.53	0.1791	25.53	0.3573
77	15	50	635000	3525	CP-OFDM QPSK	135@67	19.85	19.82	22.85	0.1928	25.85	0.3846
77	15	50	635000	3525	CP-OFDM QPSK	1@1	19.97	19.7	22.85	0.1928	25.85	0.3846
77	15	50	635000	3525	CP-OFDM QPSK	1@268	19.93	19.73	22.84	0.1923	25.84	0.3837
77	15	50	635000	3525	CP-OFDM 16 QAM	135@67	19.44	19.21	22.34	0.1714	25.34	0.3420
77	15	50	635000	3525	CP-OFDM 16 QAM	1@1	19.38	19.22	22.31	0.1702	25.31	0.3396
77	15	50	635000	3525	CP-OFDM 16 QAM	1@268	19.36	19.45	22.42	0.1746	25.42	0.3483



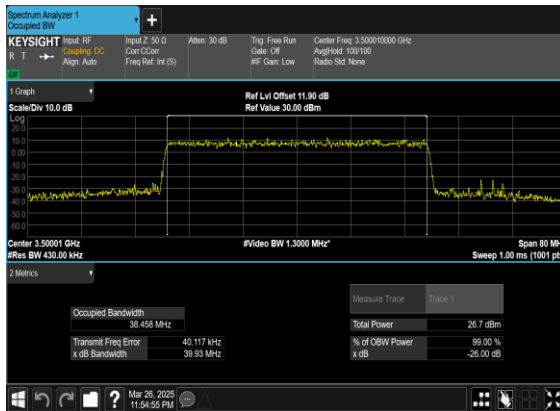
FR1 N77 MIMO ANT M - SCS 15k

Occupied Bandwidth

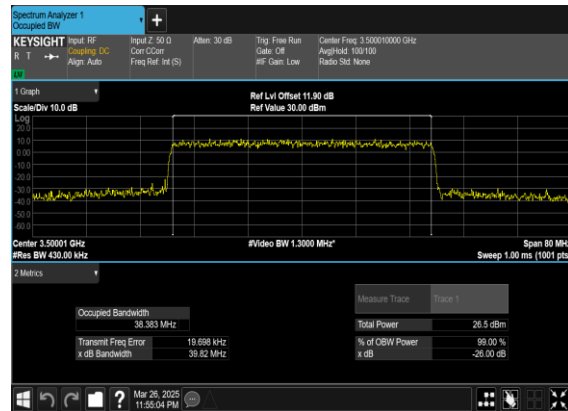
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	15	40	633334	3500.01	CP-OFDM QPSK	216@0	38.458	39.93
77	15	40	633334	3500.01	CP-OFDM 16 QAM	216@0	38.383	39.82
77	15	40	633334	3500.01	CP-OFDM 64 QAM	216@0	38.63	39.85
77	15	40	633334	3500.01	CP-OFDM 256 QAM	216@0	38.518	39.84
77	15	50	633334	3500.01	CP-OFDM QPSK	270@0	48.256	49.69
77	15	50	633334	3500.01	CP-OFDM 16 QAM	270@0	48.384	49.76
77	15	50	633334	3500.01	CP-OFDM 64 QAM	270@0	48.127	49.84
77	15	50	633334	3500.01	CP-OFDM 256 QAM	270@0	48.107	49.69



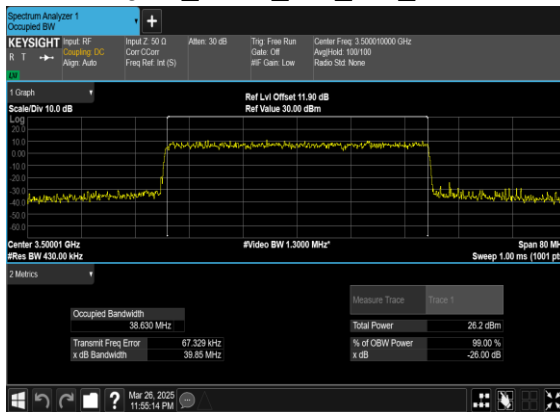
N77(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



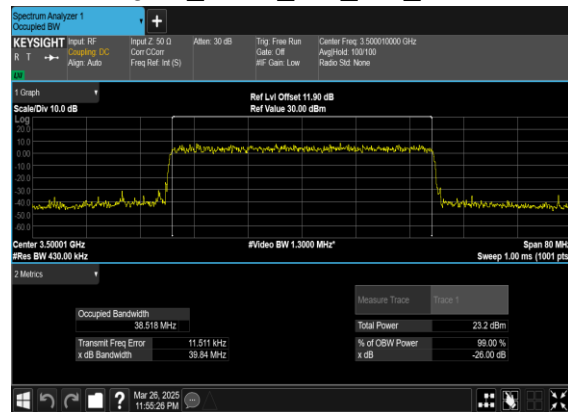
N77(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

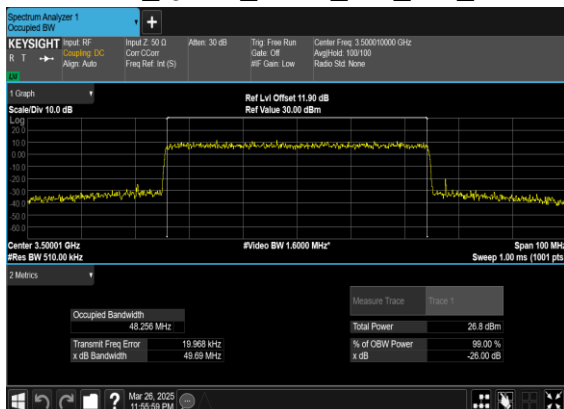


N77(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

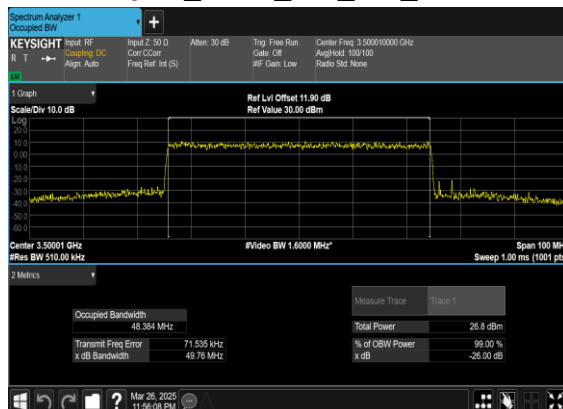




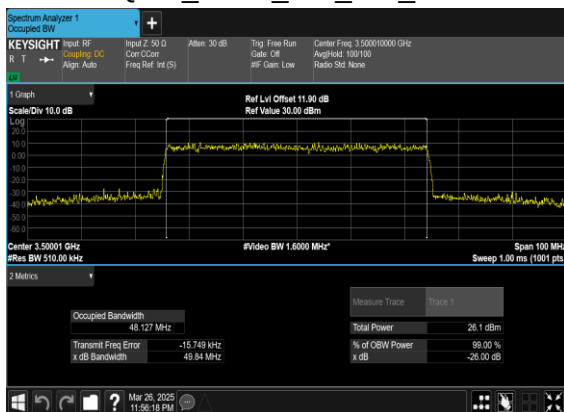
N77(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



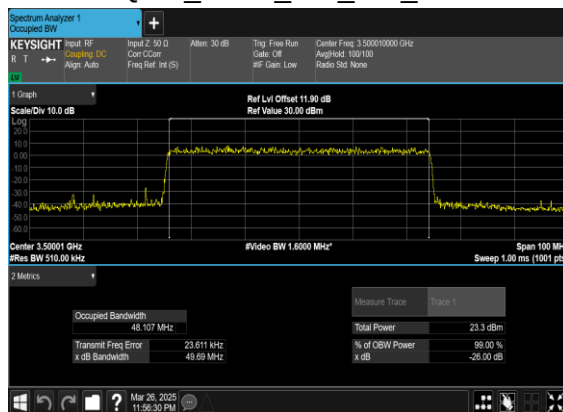
N77(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

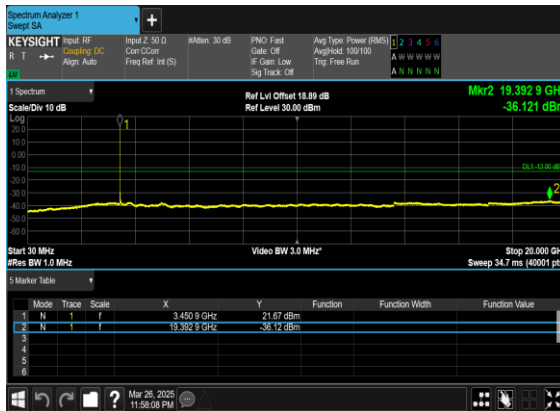


Conducted Spurious Emissions

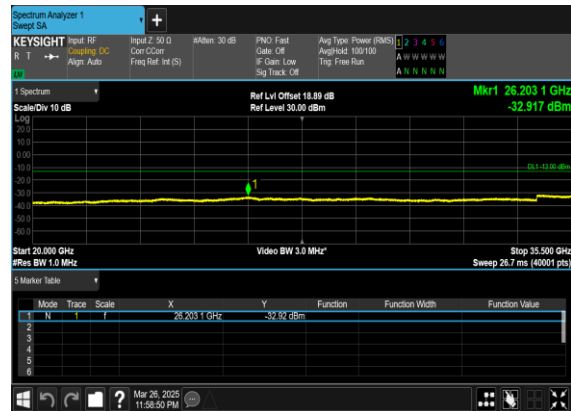
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	15	40	631334	3470.01	CP-OFDM QPSK	1@0	see graph	---
77	15	40	631334	3470.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	40	631334	3470.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	40	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	15	40	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	40	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	40	635333	3529.995	CP-OFDM QPSK	1@0	see graph	---
77	15	40	635333	3529.995	CP-OFDM QPSK	1@0	see graph	PASS
77	15	40	635333	3529.995	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	631667	3475.005	CP-OFDM QPSK	1@0	see graph	---
77	15	50	631667	3475.005	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	631667	3475.005	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	15	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	---
77	15	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	PASS



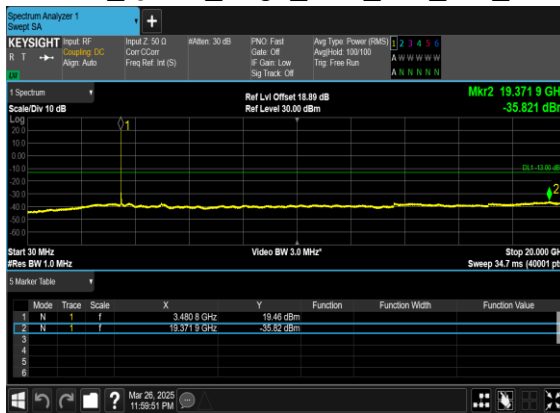
N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



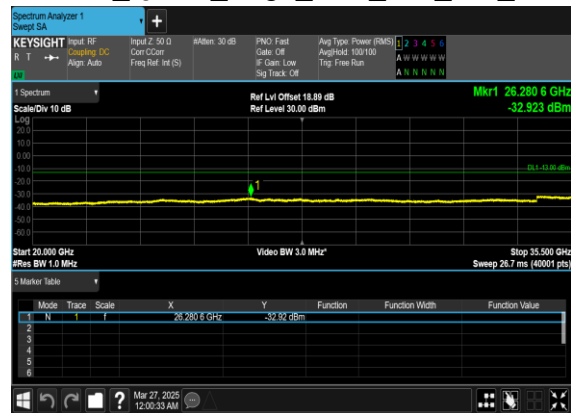
N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

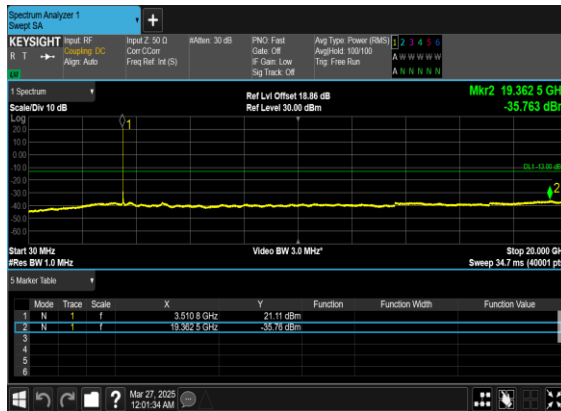


N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

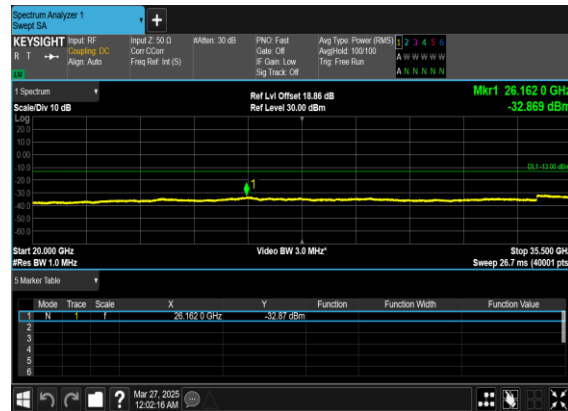




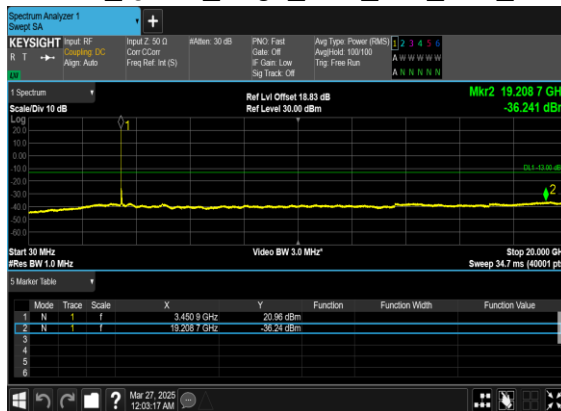
N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



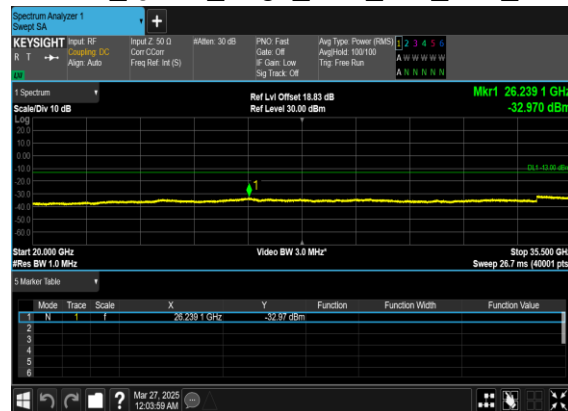
N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

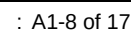
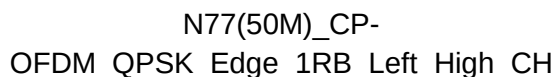
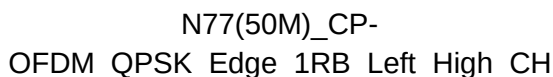
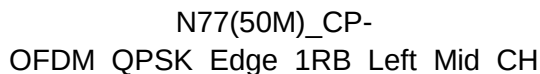


N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH





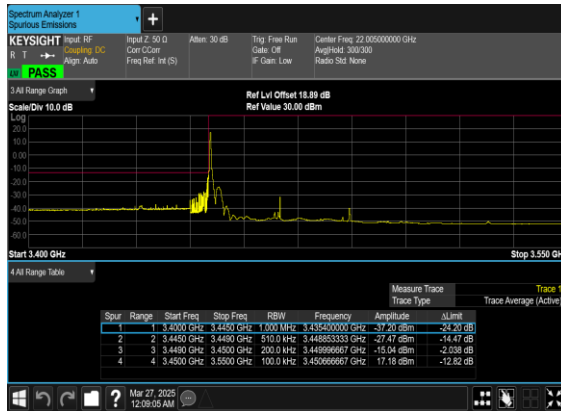


Conducted Band Edge

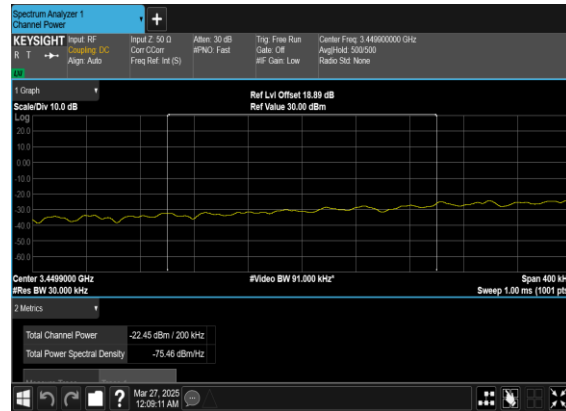
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	15	40	631334	3470.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	40	631334	3470.01	CP-OFDM QPSK	216@0	see graph	PASS
77	15	40	635333	3529.995	CP-OFDM QPSK	1@215	see graph	PASS
77	15	40	635333	3529.995	CP-OFDM QPSK	216@0	see graph	PASS
77	15	50	631667	3475.005	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	631667	3475.005	CP-OFDM QPSK	270@0	see graph	PASS
77	15	50	635000	3525.0	CP-OFDM QPSK	1@269	see graph	PASS
77	15	50	635000	3525.0	CP-OFDM QPSK	270@0	see graph	PASS



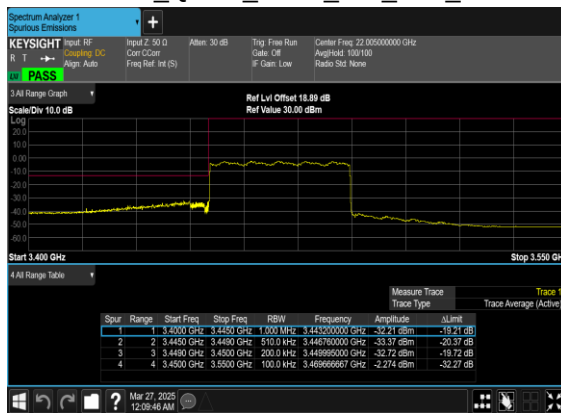
N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



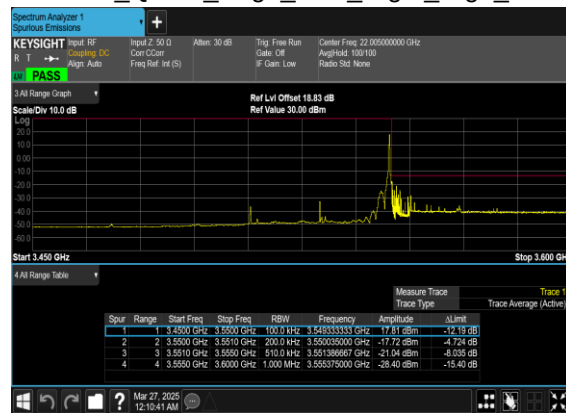
N77(40M)_CP-OFDM_QPSK
_Edge_1RB_Left_Low_CH_CHP_PASS



N77(40M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH

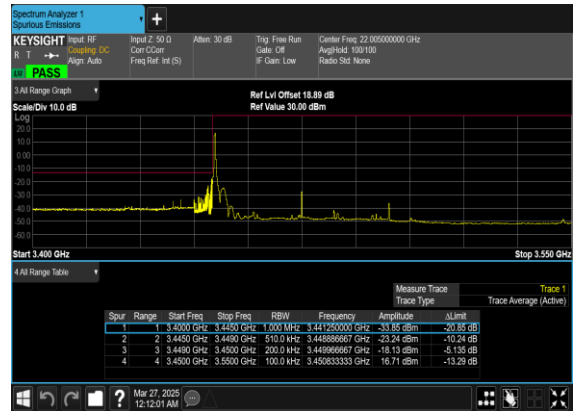




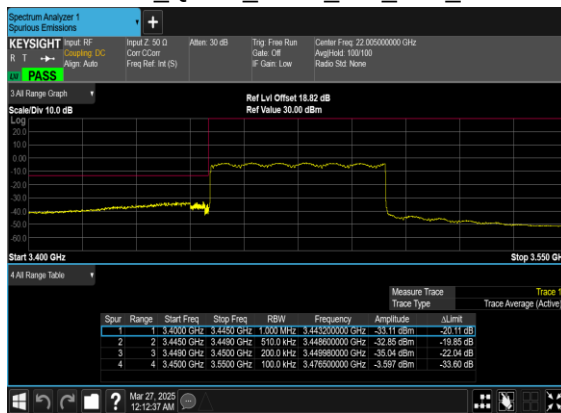
N77(40M)_CP-
OFDM_QPSK_Outer_Full_High_CH



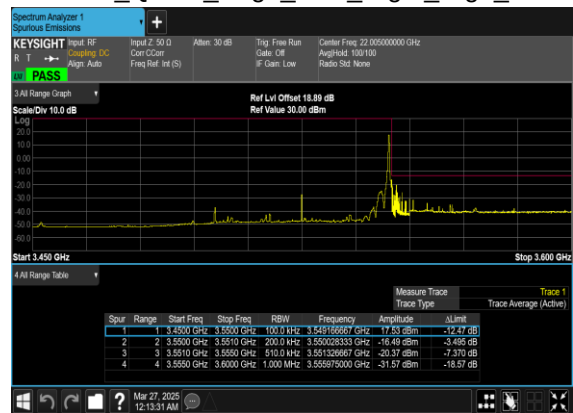
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(50M)_CP-
OFDM_QPSK_Outer_Full_Low_CH

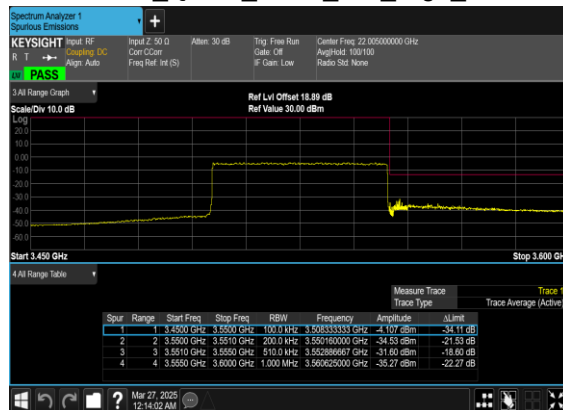


N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH





N77(50M)_CP-
OFDM_QPSK_Outer_Full_High_CH





FR1 N77 MIMO ANT(M+M2) - SCS 30k

Transmitter Conducted Output Power and EIRP, (GT - LC)=3.0dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	ANTM2 Power (dBm)	ANTM Power (dBm)	Conducted Power(dBm)	Conducted Power(W)	EIRP (dBm)	EIRP (W)
77	30	90	633000	3495	CP-OFDM QPSK	123@61	20.21	20.24	23.24	0.2109	26.24	0.4207
77	30	90	633000	3495	CP-OFDM QPSK	1@1	19.87	20.19	23.04	0.2014	26.04	0.4018
77	30	90	633000	3495	CP-OFDM QPSK	1@243	20.08	19.59	22.85	0.1928	25.85	0.3846
77	30	90	633000	3495	CP-OFDM 16 QAM	123@61	19.69	19.81	22.76	0.1888	25.76	0.3767
77	30	90	633000	3495	CP-OFDM 16 QAM	1@1	19.39	19.68	22.55	0.1799	25.55	0.3589
77	30	90	633000	3495	CP-OFDM 16 QAM	1@243	19.76	19.14	22.47	0.1766	25.47	0.3524
77	30	90	633334	3500.01	CP-OFDM QPSK	123@61	20.19	20.35	23.28	0.2128	26.28	0.4246
77	30	90	633334	3500.01	CP-OFDM QPSK	1@1	19.84	20.37	23.12	0.2051	26.12	0.4093
77	30	90	633334	3500.01	CP-OFDM QPSK	1@243	20.07	19.79	22.94	0.1968	25.94	0.3926
77	30	90	633334	3500.01	CP-OFDM 16 QAM	123@61	19.7	19.88	22.8	0.1905	25.80	0.3802
77	30	90	633334	3500.01	CP-OFDM 16 QAM	1@1	19.55	19.83	22.7	0.1862	25.70	0.3715
77	30	90	633334	3500.01	CP-OFDM 16 QAM	1@243	19.65	19.2	22.44	0.1754	25.44	0.3499
77	30	90	633666	3504.99	CP-OFDM QPSK	123@61	20.23	20.44	23.35	0.2163	26.35	0.4315
77	30	90	633666	3504.99	CP-OFDM QPSK	1@1	20.09	20.37	23.24	0.2109	26.24	0.4207
77	30	90	633666	3504.99	CP-OFDM QPSK	1@243	19.76	19.79	22.79	0.1901	25.79	0.3793
77	30	90	633666	3504.99	CP-OFDM 16 QAM	123@61	19.76	19.94	22.86	0.1932	25.86	0.3855
77	30	90	633666	3504.99	CP-OFDM 16 QAM	1@1	19.67	19.96	22.83	0.1919	25.83	0.3828
77	30	90	633666	3504.99	CP-OFDM 16 QAM	1@243	19.44	19.22	22.34	0.1714	25.34	0.3420

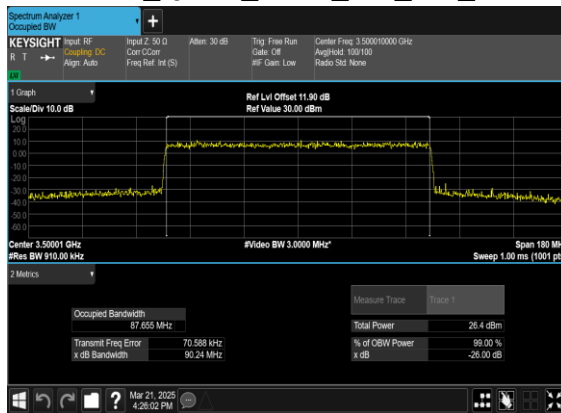


FR1 N77 MIMO ANT M - SCS 30k

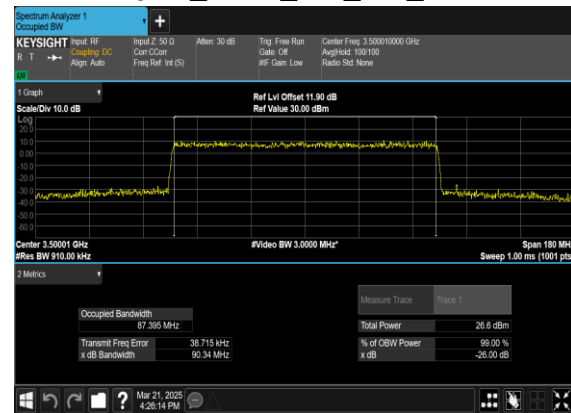
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.655	90.24
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.395	90.34
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.489	90.12
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.41	90.26

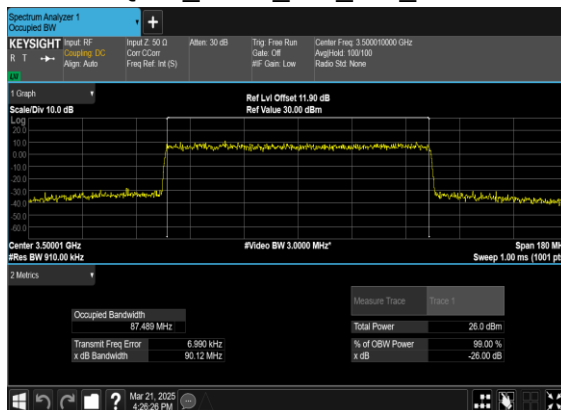
N77(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



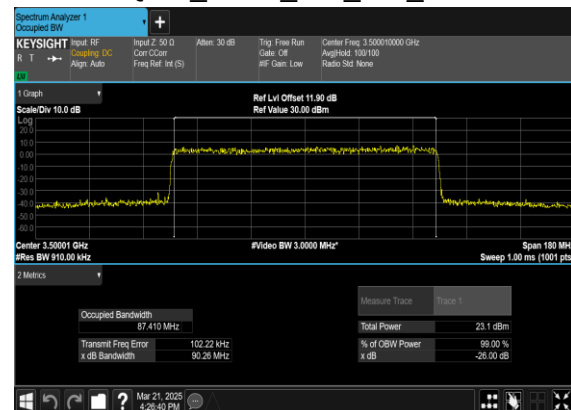
N77(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



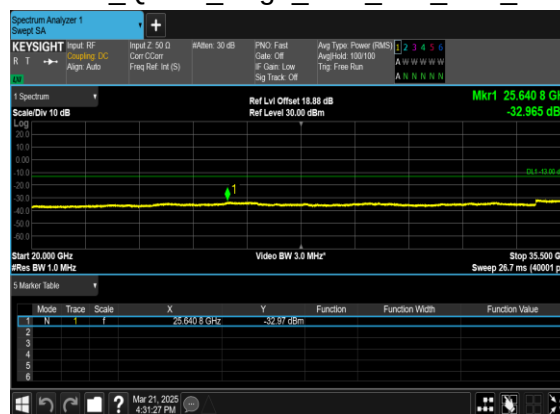
N77(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH





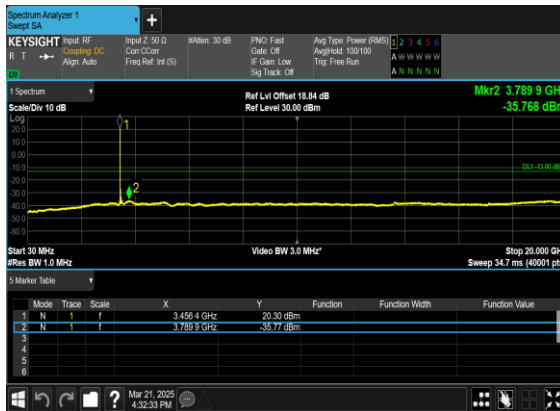
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	---
77	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	---
77	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	PASS
77	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	PASS

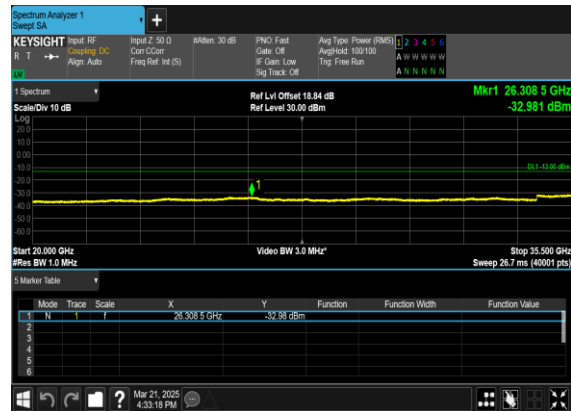
N77(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



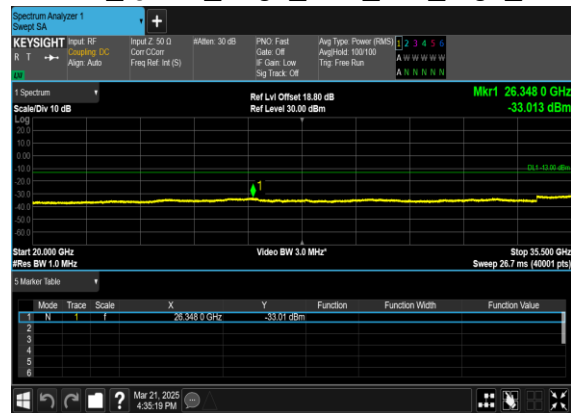
N77(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



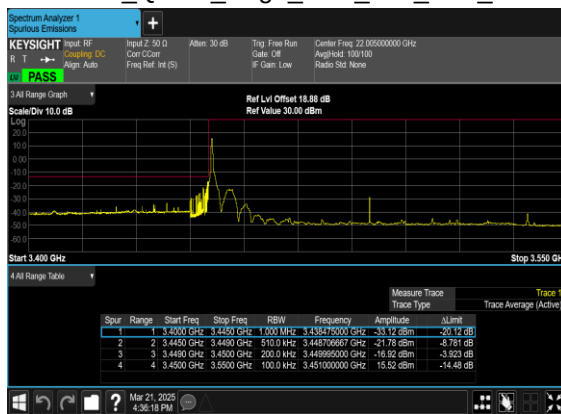
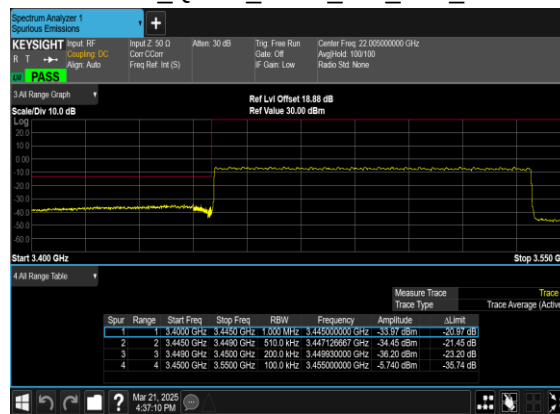
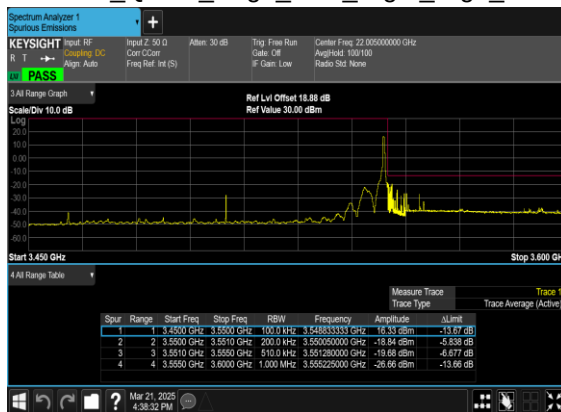
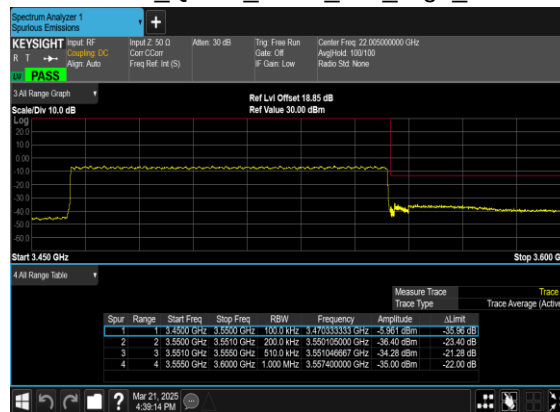
N77(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH





Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	90	633000	3495.0	CP-OFDM QPSK	245@0	see graph	PASS
77	30	90	633666	3504.99	CP-OFDM QPSK	1@244	see graph	PASS
77	30	90	633666	3504.99	CP-OFDM QPSK	245@0	see graph	PASS

N77(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(90M)_CP-
OFDM_QPSK_Outer_Full_Low_CHN77(90M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CHN77(90M)_CP-
OFDM_QPSK_Outer_Full_High_CH



Software Version: 23.06.1602

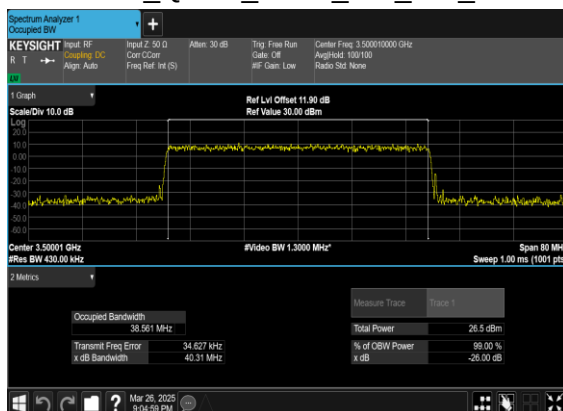
FR1 N77 MIMO ANTM2 - SCS 15k

Occupied Bandwidth

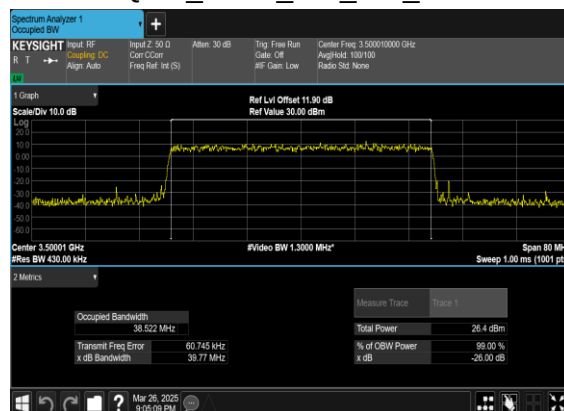
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	15	40	633334	3500.01	CP-OFDM QPSK	216@0	38.561	40.31
77	15	40	633334	3500.01	CP-OFDM 16 QAM	216@0	38.522	39.77
77	15	40	633334	3500.01	CP-OFDM 64 QAM	216@0	38.452	39.84
77	15	40	633334	3500.01	CP-OFDM 256 QAM	216@0	38.624	39.92
77	15	50	633334	3500.01	CP-OFDM QPSK	270@0	48.124	49.75
77	15	50	633334	3500.01	CP-OFDM 16 QAM	270@0	48.358	49.75
77	15	50	633334	3500.01	CP-OFDM 64 QAM	270@0	48.06	49.73
77	15	50	633334	3500.01	CP-OFDM 256 QAM	270@0	48.115	49.68



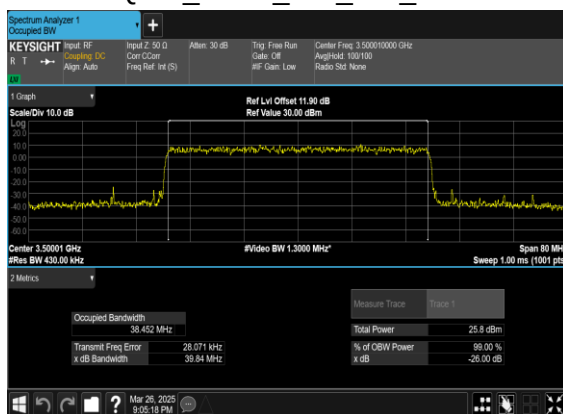
N77(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



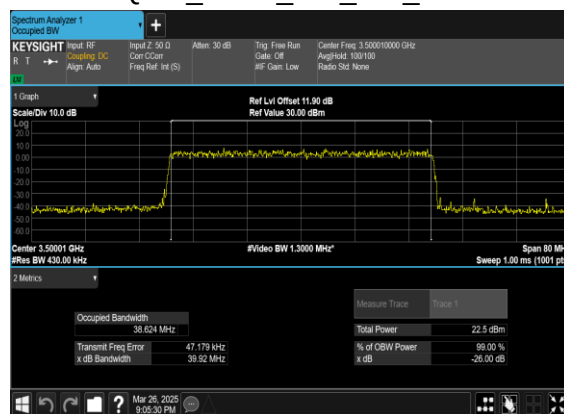
N77(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

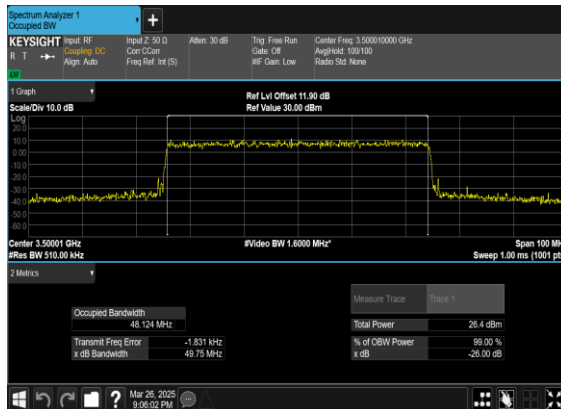


N77(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

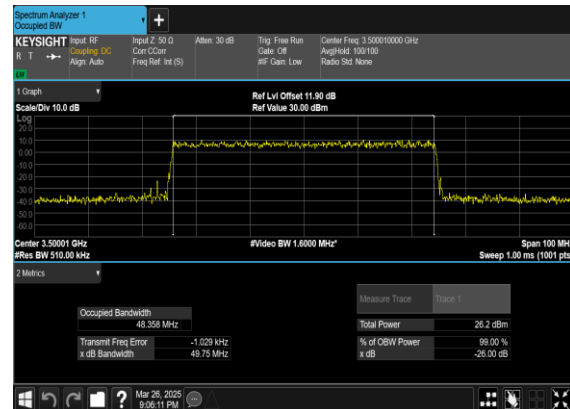




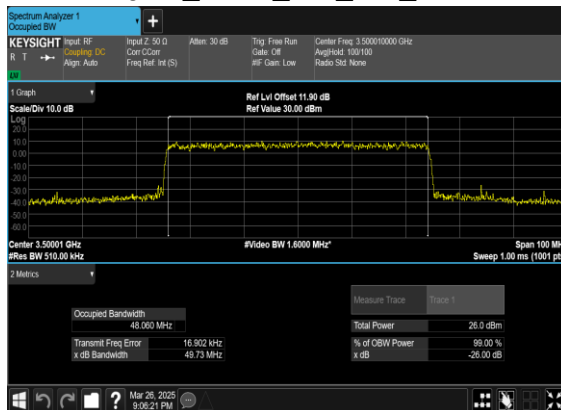
N77(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



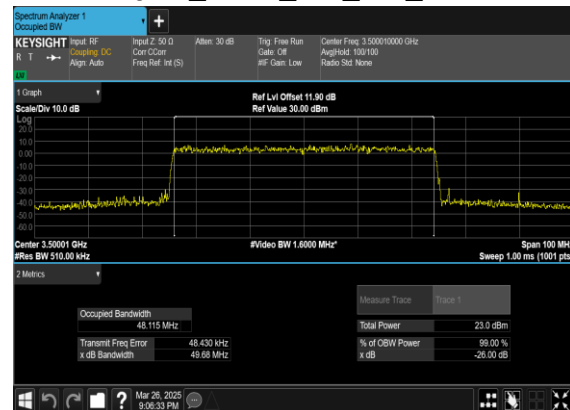
N77(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

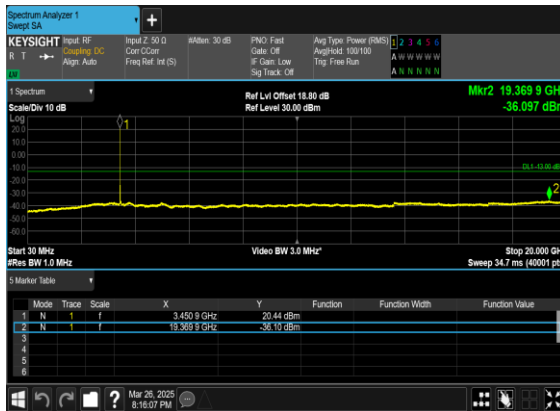


Conducted Spurious Emissions

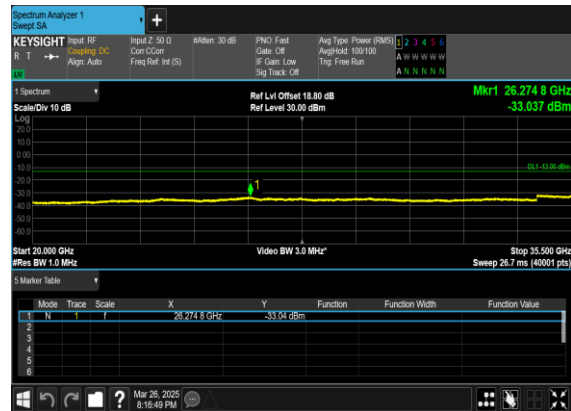
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	15	40	631334	3470.01	CP-OFDM QPSK	1@0	see graph	---
77	15	40	631334	3470.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	40	631334	3470.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	40	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	15	40	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	40	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	40	635333	3529.995	CP-OFDM QPSK	1@0	see graph	---
77	15	40	635333	3529.995	CP-OFDM QPSK	1@0	see graph	PASS
77	15	40	635333	3529.995	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	631667	3475.005	CP-OFDM QPSK	1@0	see graph	---
77	15	50	631667	3475.005	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	631667	3475.005	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	15	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	---
77	15	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	PASS



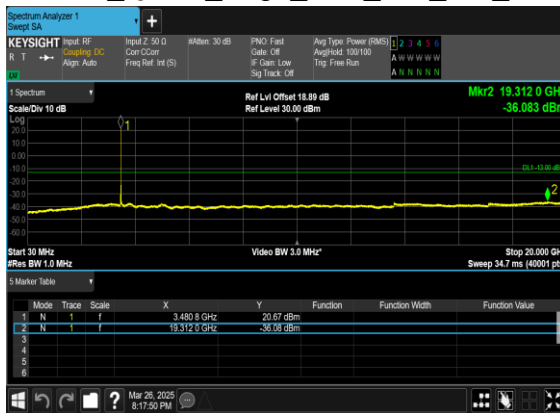
N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



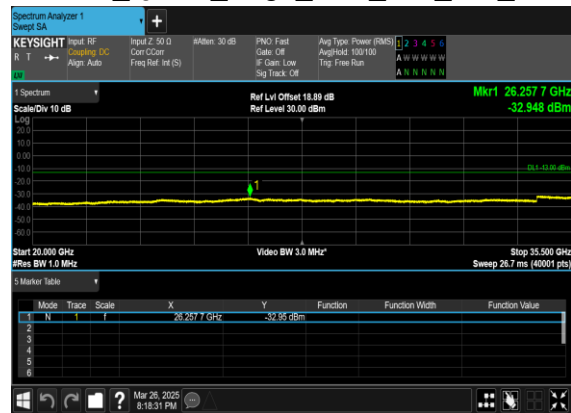
N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

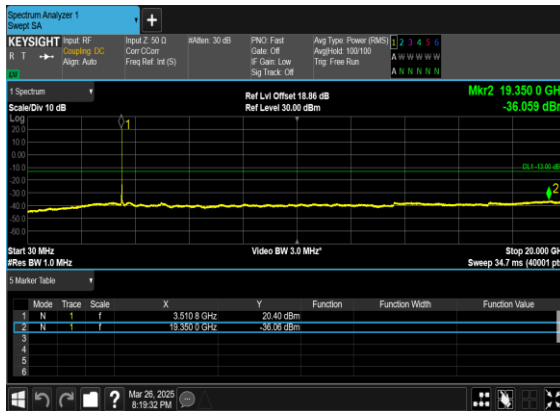


N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

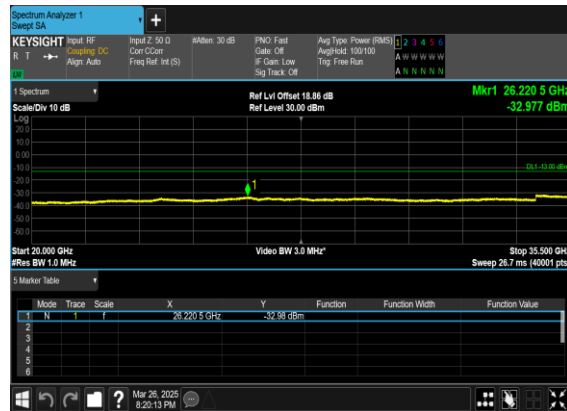




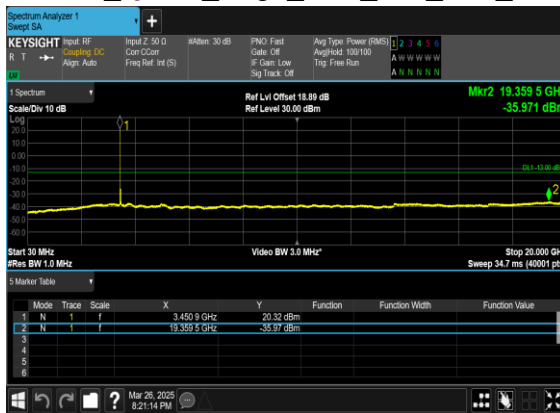
N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



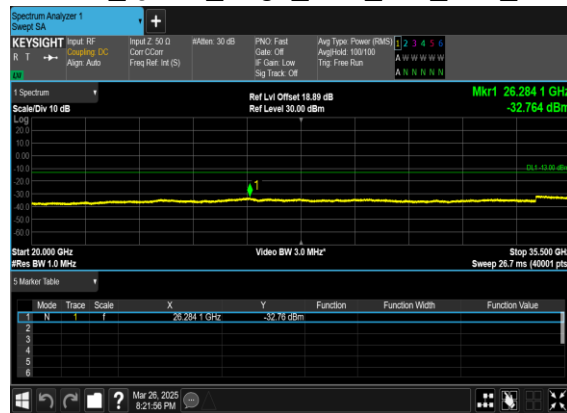
N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH

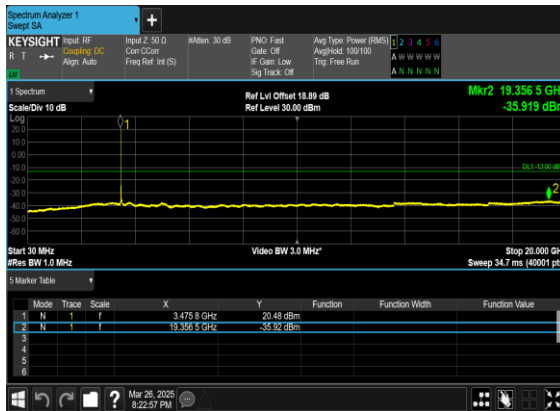


N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH

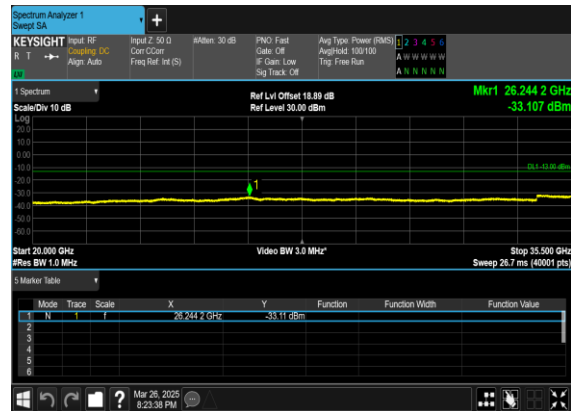




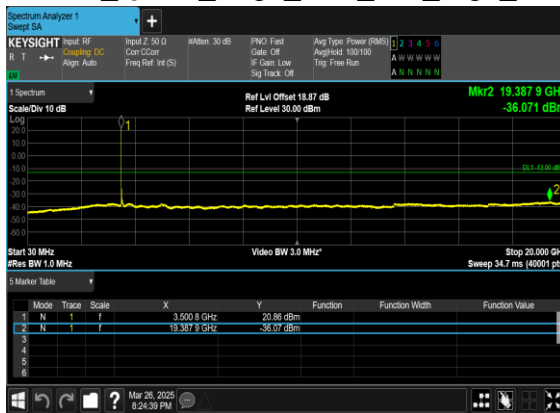
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



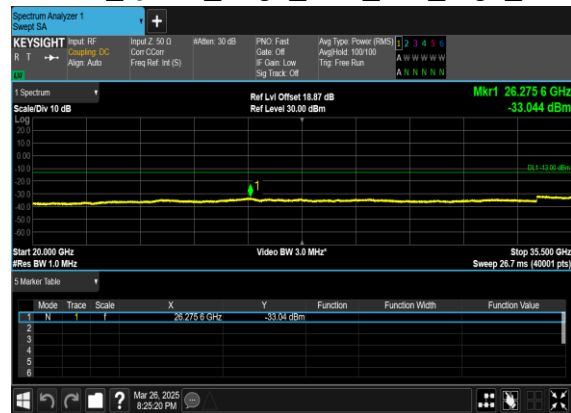
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

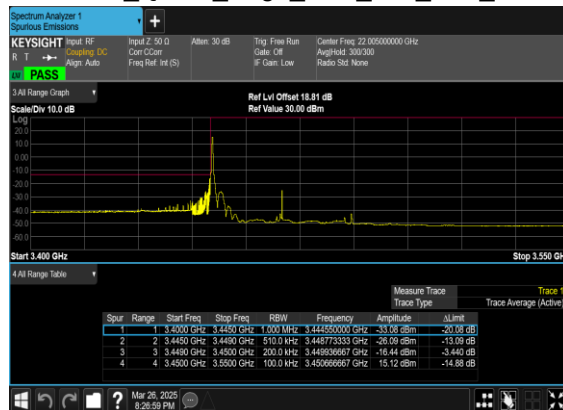


**Conducted Band Edge**

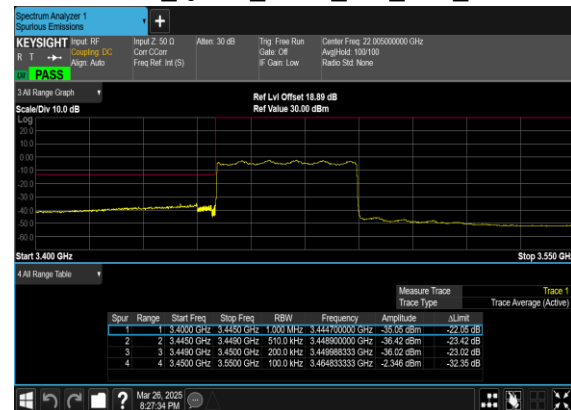
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	15	40	631334	3470.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	40	631334	3470.01	CP-OFDM QPSK	216@0	see graph	PASS
77	15	40	635333	3529.995	CP-OFDM QPSK	1@215	see graph	PASS
77	15	40	635333	3529.995	CP-OFDM QPSK	216@0	see graph	PASS
77	15	50	631667	3475.005	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	631667	3475.005	CP-OFDM QPSK	270@0	see graph	PASS
77	15	50	635000	3525.0	CP-OFDM QPSK	1@269	see graph	PASS
77	15	50	635000	3525.0	CP-OFDM QPSK	270@0	see graph	PASS



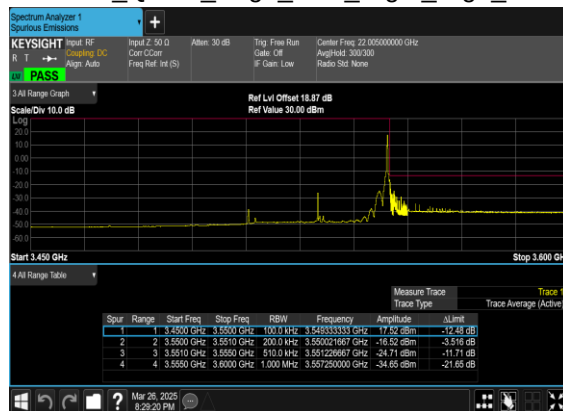
N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



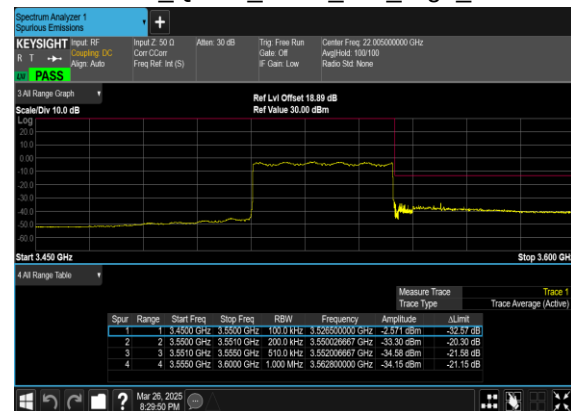
N77(40M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N77(40M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH

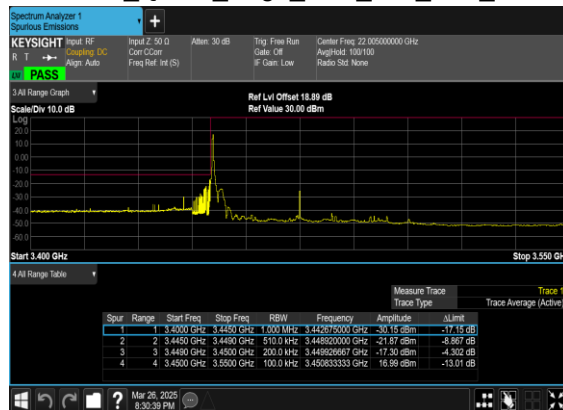


N77(40M)_CP-
OFDM_QPSK_Outer_Full_High_CH

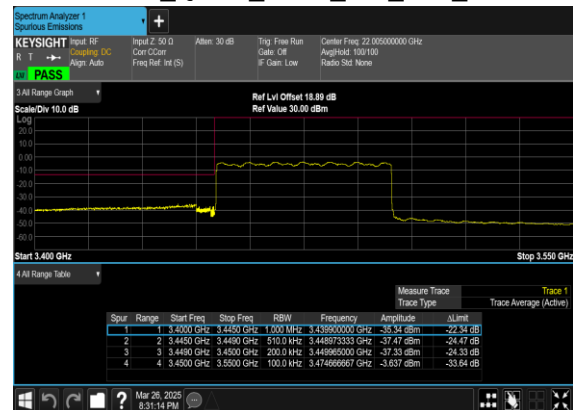




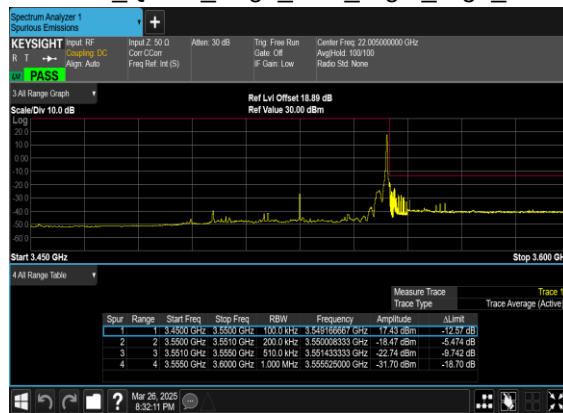
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



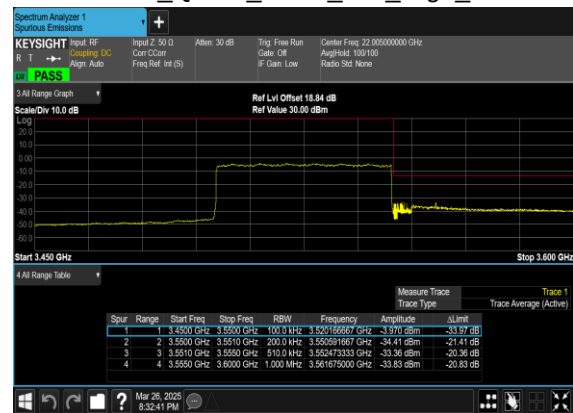
N77(50M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(50M)_CP-
OFDM_QPSK_Outer_Full_High_CH



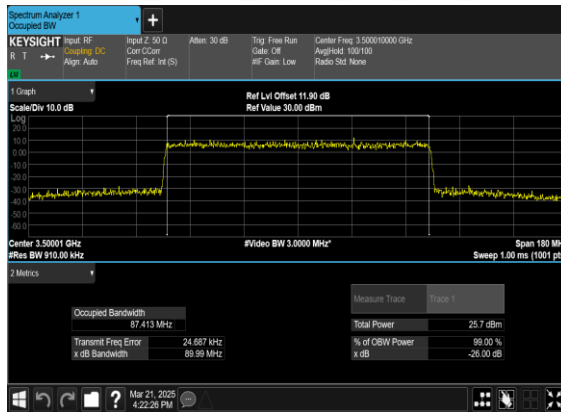


FR1 N77 MIMO ANTM2 - SCS 30k

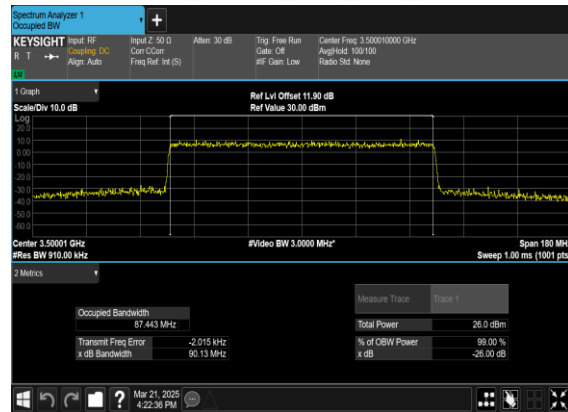
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.413	89.99
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.443	90.13
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.43	90.18
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.563	90.23

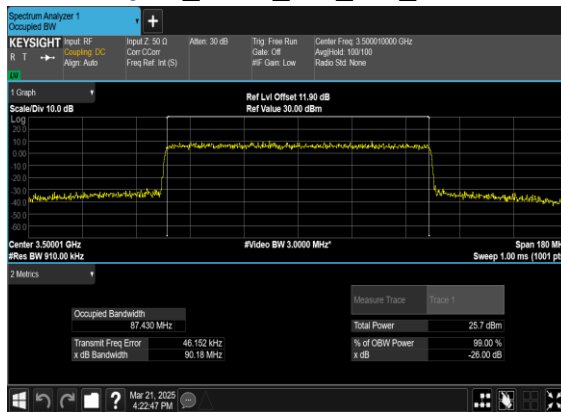
N77(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



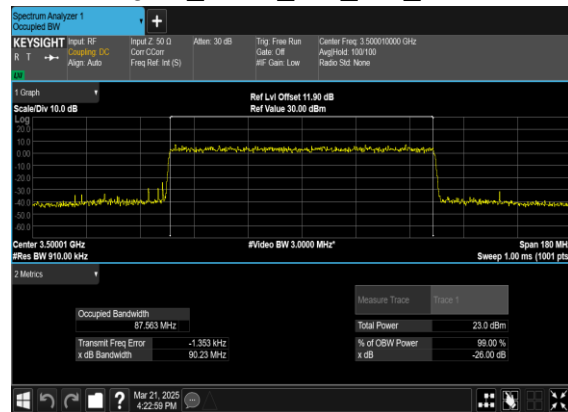
N77(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



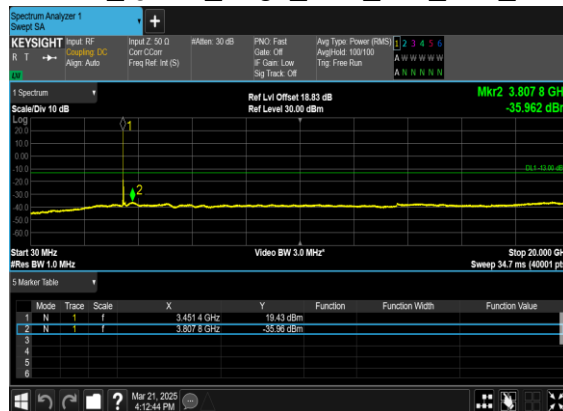
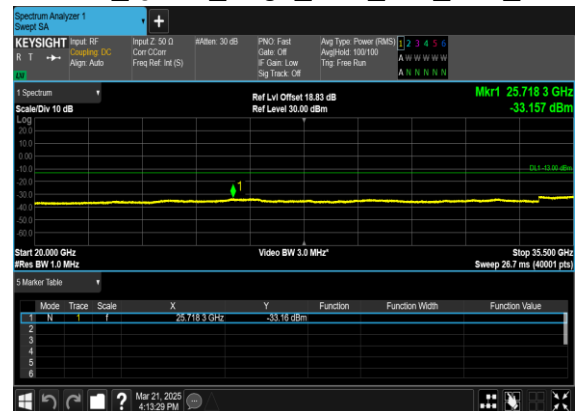
N77(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

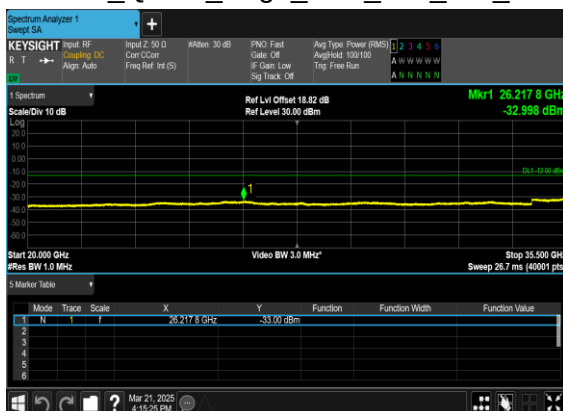




Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	---
77	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	---
77	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	PASS
77	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	PASS

N77(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH

N77(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN77(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN77(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CHN77(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH