FCC RF Test Report

APPLICANT	: Motorola Mobility LLC
EQUIPMENT	: Mobile Cellular Phone
BRAND NAME	: Motorola
MODEL NAME	: XT2519-1,XT2519-2,XT2519V
FCC ID	: IHDT56AU6
STANDARD	: 47 CFR Part 27 Subpart Q
CLASSIFICATION	: PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	: Jan. 18, 2025 ~ Feb. 19, 2025

We, Sporton International Inc. (Kunshan), 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.

This report contains data that were produced under subcontract by Sporton International Inc. (ShenZhen)

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

Jason Jia

Approved by: Jason Jia

ACCREDITED Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG510740U	Rev. 01	Initial issue of report	Mar. 07, 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)(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 15.04 dB at 9222.00 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/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

Disclaimer:

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

1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2519-1,XT2519-2,XT2519V
FCC ID	IHDT56AU6
IMEI Code	Conducted: 355782390039091/355782390039109 Radiation: 355782390037798/355782390037806
HW Version	DVT2
SW Version	V2VD35.27
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The different model name is different for market purpose.

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 / 25 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz
Antenna Gain	**<Ant. 2>** 5G NR n77: -4.5 dBi 5G NR n78: -4.5 dBi **<Ant. 4>** 5G NR n77: -5.3 dBi 5G NR n78: -5.3 dBi **<Ant. 6>** 5G NR n77: -4.9 dBi 5G NR n78: -4.9 dBi **<Ant. 7>**

	5G NR n77: -5.0 dBi 5G NR n78: -5.0 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 is shown in the report, 5G NR n77/n78 for Antenna 2 and n77/n78_UL MIMO for Ant(2+6).
2. 5G NR n77/n78 support SA and NSA mode.
3. The device supports two PAs for 5G NR n77/n78 (main PA and other PA), both the PAs are full tested, only the worst EIRP are shown in the report. According to the maximum power between SA and NSA mode, SA covers NSA mode for main PA, and NSA covers SA mode for other PA.
4. 5G NR n77/n78 supports UL MIMO mode for Ant.(4+7)/Ant.(2+7)/Ant.(4+6)/Ant.(2+6), only the worst test data of Ant.(2+6) is shown in the report.
5. 5G NR n77 Single Carrier supports PC2 and UL MIMO mode supports PC1.5.
6. 5G NR n78 Single Carrier supports PC2 and UL MIMO mode supports PC2.
7. MIMO Antenna gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ /2].
8. For UL MIMO mode, the conducted BE/Spurious are tested at single antenna port and add 10*log(N_{ANT}) according to KDB 662911 D01.
9. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
10. The EN-DC mode combination could be referred to the product spec.

1.5 Specification of Accessory

Specification of Accessory				
Battery	**Brand Name**	Motorola(ATL)	**Model Name**	RM52
USB Cable 1	**Brand Name**	Motorola(Saibao)	**Model Name**	SC18D86731
USB Cable 2	**Brand Name**	Motorola(Luxshare)	**Model Name**	SC18E08103

1.6 Modification of EUT

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

1.7 Maximum EIRP Power and Emission Designator

5G NR n77 SA		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.1445	8M60G7D	0.1094	8M60W7D
15	3457.50 ~ 3542.49	0.1462	13M6G7D	0.1122	13M6W7D
20	3460.02 ~ 3540.00	0.1483	18M2G7D	0.1099	18M2W7D
25	3462.51 ~ 3537.48	0.1442	23M2G7D	0.1067	23M2W7D
30	3465.00 ~ 3534.99	0.1429	27M8G7D	0.1102	27M9W7D
40	3470.01 ~ 3529.98	0.1459	37M8G7D	0.1076	37M9W7D
50	3475.02 ~ 3525.00	0.1486	47M5G7D	0.1074	47M6W7D
60	3480.00 ~ 3519.99	0.1469	57M8G7D	0.1064	57M9W7D
70	3485.01 ~ 3514.98	0.1503	67M6G7D	0.1099	67M6W7D
80	3490.02 ~ 3510.00	0.1489	77M5G7D	0.1112	77M6W7D
90	3495.00 ~ 3504.99	0.1472	87M4G7D	0.1096	87M5W7D
100	3500.01	0.1528	97M6G7D	0.1104	97M6W7D

5G NR n78 SA		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.1419	8M60G7D	0.1159	8M60W7D
15	3457.50 ~ 3542.49	0.1476	13M6G7D	0.1180	13M6W7D
20	3460.02 ~ 3540.00	0.1462	18M2G7D	0.1178	18M2W7D
25	3462.51 ~ 3537.48	0.1439	23M2G7D	0.1159	23M2W7D
30	3465.00 ~ 3534.99	0.1439	27M8G7D	0.1153	27M9W7D
40	3470.01 ~ 3529.98	0.1435	37M8G7D	0.1167	37M9W7D
50	3475.02 ~ 3525.00	0.1413	47M5G7D	0.1122	47M6W7D
60	3480.00 ~ 3519.99	0.1429	57M8G7D	0.1140	57M9W7D
70	3485.01 ~ 3514.98	0.1406	67M6G7D	0.1161	67M6W7D
80	3490.02 ~ 3510.00	0.1452	77M5G7D	0.1175	77M6W7D
90	3495.00 ~ 3504.99	0.1432	87M4G7D	0.1172	87M5W7D
100	3500.01	0.1483	97M6G7D	0.1180	97M6W7D

5G NR n77 UL MIMO		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.4613	8M57G7D	0.3589	8M57W7D
15	3457.50 ~ 3542.49	0.4710	13M6G7D	0.3597	13M6W7D
20	3460.02 ~ 3540.00	0.4977	18M2G7D	0.4256	18M2W7D
25	3462.51 ~ 3537.48	0.5140	23M2G7D	0.4018	23M3W7D
30	3465.00 ~ 3534.99	0.5140	27M9G7D	0.4083	27M9W7D
40	3470.01 ~ 3529.98	0.5082	37M8G7D	0.3999	37M9W7D
50	3475.02 ~ 3525.00	0.5070	47M4G7D	0.4009	47M5W7D
60	3480.00 ~ 3519.99	0.5058	57M8G7D	0.4074	57M9W7D
70	3485.01 ~ 3514.98	0.5358	67M6G7D	0.4111	67M6W7D
80	3490.02 ~ 3510.00	0.5534	77M5G7D	0.4198	77M6W7D
90	3495.00 ~ 3504.99	0.5272	87M5G7D	0.4188	87M7W7D
100	3500.01	0.5534	97M5G7D	0.4256	97M4W7D

5G NR n78 UL MIMO		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.2877	8M57G7D	0.2371	8M57W7D
15	3457.50 ~ 3542.49	0.2877	13M6G7D	0.2371	13M6W7D
20	3460.02 ~ 3540.00	0.2911	18M2G7D	0.2328	18M2W7D
25	3462.51 ~ 3537.48	0.2825	23M2G7D	0.2265	23M3W7D
30	3465.00 ~ 3534.99	0.2838	27M9G7D	0.2317	27M9W7D
40	3470.01 ~ 3529.98	0.2858	37M8G7D	0.2360	37M9W7D
50	3475.02 ~ 3525.00	0.2825	47M4G7D	0.2339	47M5W7D
60	3480.00 ~ 3519.99	0.2838	57M8G7D	0.2339	57M9W7D
70	3485.01 ~ 3514.98	0.3083	67M6G7D	0.2483	67M6W7D
80	3490.02 ~ 3510.00	0.3034	77M5G7D	0.2495	77M6W7D
90	3495.00 ~ 3504.99	0.3006	87M5G7D	0.2489	87M7W7D
100	3500.01	0.3090	97M5G7D	0.2512	97M4W7D

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.

1.8 Testing Site

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-KS	CN1257	314309

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.**
	03CH03-SZ	CN1256	421272

Test data subcontracted: Radiated Spurious Emission test case in section 4 of this report

1.9 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24

1.10 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.

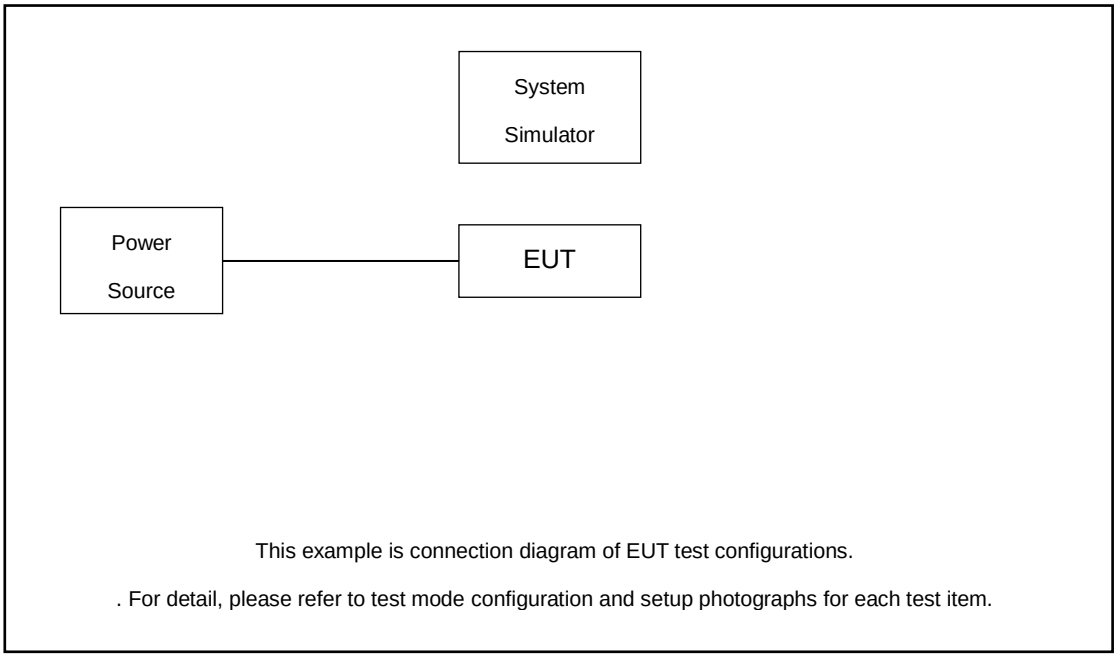
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

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	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	All Modulations	1RB, Partial RB, Full RB	L, M, H
	5G n78	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	All Modulations	1RB, Partial RB, Full RB	L, M, H
Peak-to-Average Ratio	5G n77	20M	PI/2 BPSK, QPSK	Full RB	M
E.I.R.P	5G n77	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	All Modulations	1RB, Partial RB, Full RB	L, M, H
	5G n78	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	All Modulations	1RB, Partial RB, Full RB	L, M, H
26dB and 99% Bandwidth	5G n77	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
Conducted Band Edge	5G n77	10M, 50M, 100M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	5G n77	10M, 50M, 100M	PI/2 BPSK, QPSK	1RB	L, M, H
Frequency Stability	5G n77	20M	QPSK	Full RB	M
Radiated Spurious Emission	5G n77	Worst case from maximum power			M

Note:

1. 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.
2. Frequency Stability：Normal Voltage = 3.91V; Low Voltage =3.6V; High Voltage =4.5V.

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

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

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between 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.

Following shows an offset computation example with cable loss 8.9 dB.

Example :

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

= 8.9 (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**
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
25	Channel	630834	633334	635832
	Frequency	3462.51	3500.01	3537.48
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

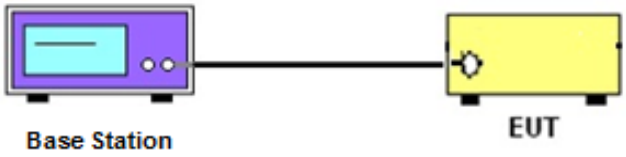
3 Conducted Test Items

3.1 Measuring Instruments

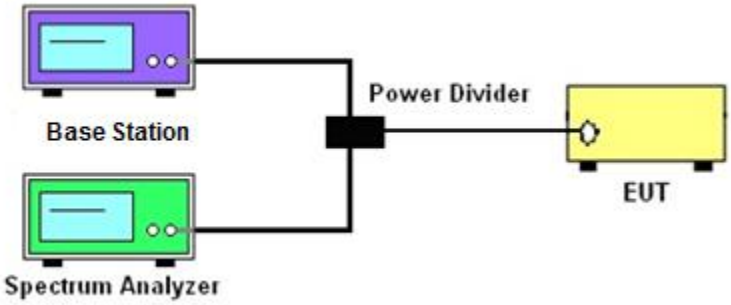
See list of measuring instruments of this test report.

3.2 Test Setup

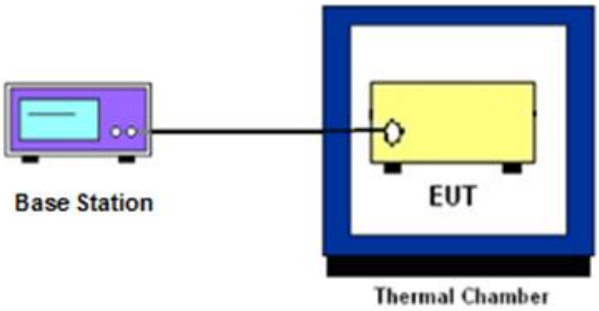
3.2.1 Conducted Output Power



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 ≥ 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 ≥ 500KHz.
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.

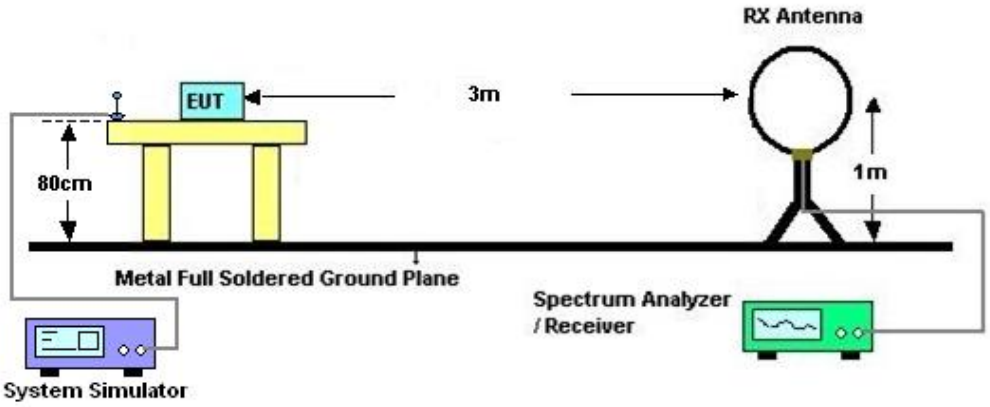
4 Radiated Test Items

4.1 Measuring Instruments

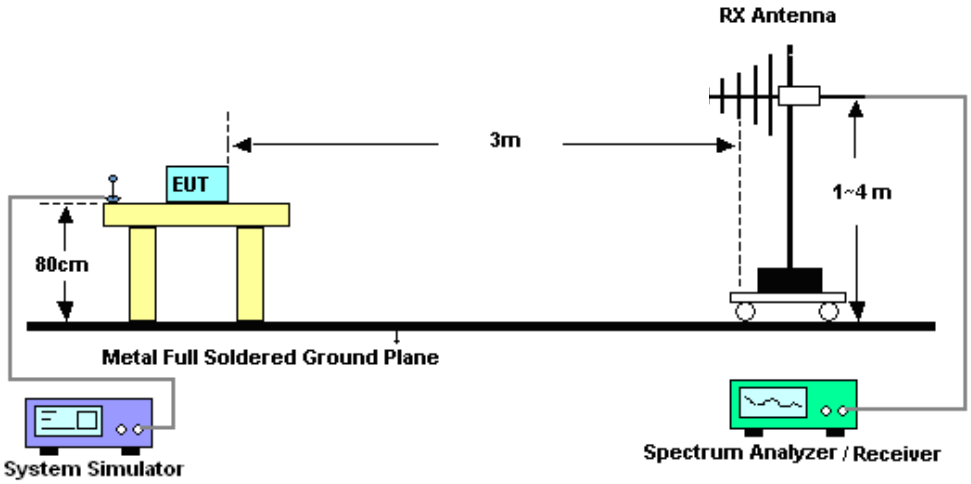
See list of measuring instruments of this test report.

4.2 Test Setup

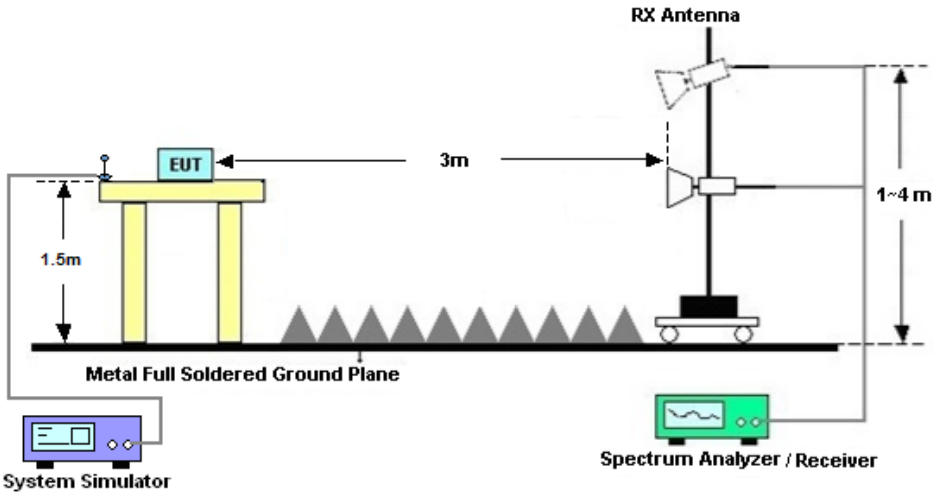
4.2.1 For radiated test below 30MHz



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.
   EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
   ERP (dBm) = 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
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Jan. 18, 2025~ Feb. 14, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Jan. 18, 2025~ Feb. 14, 2025	NCR	Conducted (TH01-KS)
Temperature &humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Jan. 18, 2025~ Feb. 14, 2025	Jul. 03, 2025	Conducted (TH01-KS)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 09, 2024	Feb. 19, 2025	Apr. 08, 2025	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Feb. 19, 2025	Dec. 27, 2025	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 09, 2024	Feb. 19, 2025	Apr. 08, 2025	Radiation (03CH03-SZ
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	Feb. 19, 2025	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 09, 2024	Feb. 19, 2025	Apr. 08, 2025	Radiation (03CH03-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Feb. 19, 2025	Apr. 08,2025	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Feb. 19, 2025	Jul.02, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Feb. 19, 2025	Apr. 08, 2025	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2024	Feb. 19, 2025	Oct. 17, 2025	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Feb. 19, 2025	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Feb. 19, 2025	NCR	Radiation (03CH03-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	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.90 dB
Frequency Stability	±0.04ppm

Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

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

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

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

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

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

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Khan Zheng	**Temperature :**	22~23℃
		Relative Humidity :	40~42%

Software Version: 23.06.1602

FR1 N77(Ant.2)

Transmitter Conducted Output Power And EIRP, (G_T - L_C)= -4.5dB

NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	12@6	26.09	21.59	0.1442
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	26.1	21.6	0.1445
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@22	25.97	21.47	0.1403
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	12@6	24.88	20.38	0.1091
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	24.89	20.39	0.1094
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@22	24.73	20.23	0.1054
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	12@6	26	21.5	0.1413
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.89	21.39	0.1377
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@22	25.85	21.35	0.1365
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	12@6	24.87	20.37	0.1089
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.76	20.26	0.1062
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@22	24.71	20.21	0.1050
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	12@6	26.02	21.52	0.1419
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	25.89	21.39	0.1377
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@22	25.77	21.27	0.1340
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	12@6	24.86	20.36	0.1086
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	24.89	20.39	0.1094
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@22	24.82	20.32	0.1076
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	18@9	26.12	21.62	0.1452
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	26.15	21.65	0.1462
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@36	25.98	21.48	0.1406
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	18@9	24.91	20.41	0.1099
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	24.79	20.29	0.1069
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@36	24.72	20.22	0.1052
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	18@9	26.1	21.6	0.1445
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.9	21.4	0.1380
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@36	25.83	21.33	0.1358
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	18@9	24.83	20.33	0.1079
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.76	20.26	0.1062
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@36	24.74	20.24	0.1057
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	18@9	26.01	21.51	0.1416
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	25.86	21.36	0.1368
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@36	25.79	21.29	0.1346
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	18@9	25	20.5	0.1122
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	24.81	20.31	0.1074
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@36	24.74	20.24	0.1057
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	26.21	21.71	0.1483
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	26.09	21.59	0.1442
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	25.91	21.41	0.1384
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	24.91	20.41	0.1099
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	24.91	20.41	0.1099
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	24.71	20.21	0.1050
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	26.09	21.59	0.1442
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.91	21.41	0.1384
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	25.91	21.41	0.1384
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	24.91	20.41	0.1099

77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.82	20.32	0.1076
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	24.66	20.16	0.1038
77	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	26.08	21.58	0.1439
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	25.92	21.42	0.1387
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	25.86	21.36	0.1368
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	24.89	20.39	0.1094
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	24.79	20.29	0.1069
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	24.81	20.31	0.1074
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	32@16	25.98	21.48	0.1406
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	26.09	21.59	0.1442
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@63	25.86	21.36	0.1368
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	32@16	24.63	20.13	0.1030
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	24.78	20.28	0.1067
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@63	24.56	20.06	0.1014
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	32@16	25.92	21.42	0.1387
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.95	21.45	0.1396
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@63	25.81	21.31	0.1352
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	32@16	24.69	20.19	0.1045
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.55	20.05	0.1012
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@63	24.58	20.08	0.1019
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	32@16	25.88	21.38	0.1374
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	25.88	21.38	0.1374
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@63	25.75	21.25	0.1334
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	32@16	24.77	20.27	0.1064
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	24.72	20.22	0.1052
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@63	24.67	20.17	0.1040
77	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	25.97	21.47	0.1403
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	26.05	21.55	0.1429
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	25.89	21.39	0.1377
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	24.71	20.21	0.1050
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	24.92	20.42	0.1102
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	24.66	20.16	0.1038
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	25.96	21.46	0.1400
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.86	21.36	0.1368
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	25.79	21.29	0.1346
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	24.75	20.25	0.1059
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.67	20.17	0.1040
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	24.61	20.11	0.1026
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	25.9	21.4	0.1380
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	25.91	21.41	0.1384
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	25.82	21.32	0.1355
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	24.8	20.3	0.1072
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	24.89	20.39	0.1094
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	24.76	20.26	0.1062
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	25.99	21.49	0.1409
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	26.14	21.64	0.1459
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	25.83	21.33	0.1358
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	24.69	20.19	0.1045
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	24.77	20.27	0.1064
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	24.52	20.02	0.1005
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	25.97	21.47	0.1403
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.92	21.42	0.1387
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	25.79	21.29	0.1346
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	24.73	20.23	0.1054
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.65	20.15	0.1035

77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	24.61	20.11	0.1026
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	25.89	21.39	0.1377
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	25.95	21.45	0.1396
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	25.77	21.27	0.1340
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	24.82	20.32	0.1076
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	24.8	20.3	0.1072
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	24.81	20.31	0.1074
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	26.03	21.53	0.1422
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	26.22	21.72	0.1486
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	25.82	21.32	0.1355
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	24.69	20.19	0.1045
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	24.81	20.31	0.1074
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	24.57	20.07	0.1016
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	26	21.5	0.1413
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.94	21.44	0.1393
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	25.77	21.27	0.1340
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	24.7	20.2	0.1047
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.63	20.13	0.1030
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	24.64	20.14	0.1033
77	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	25.96	21.46	0.1400
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	25.95	21.45	0.1396
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	25.76	21.26	0.1337
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	24.81	20.31	0.1074
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	24.72	20.22	0.1052
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	24.63	20.13	0.1030
77	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	25.93	21.43	0.1390
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	26.17	21.67	0.1469
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	25.85	21.35	0.1365
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	24.7	20.2	0.1047
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	24.77	20.27	0.1064
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	24.58	20.08	0.1019
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	25.86	21.36	0.1368
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.92	21.42	0.1387
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	25.74	21.24	0.1330
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	24.65	20.15	0.1035
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.58	20.08	0.1019
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	24.56	20.06	0.1014
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	25.9	21.4	0.1380
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	25.84	21.34	0.1361
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	25.64	21.14	0.1300
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	24.72	20.22	0.1052
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	24.68	20.18	0.1042
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	24.63	20.13	0.1030
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	25.99	21.49	0.1409
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	26.27	21.77	0.1503
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	25.75	21.25	0.1334
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	24.8	20.3	0.1072
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	24.91	20.41	0.1099
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	24.6	20.1	0.1023
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	25.97	21.47	0.1403
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.04	21.54	0.1426
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	25.63	21.13	0.1297
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	90@45	24.75	20.25	0.1059
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.81	20.31	0.1074
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@187	24.67	20.17	0.1040

77	30	70	634332	3514.98	DFT-s-OFDM QPSK	90@45	25.96	21.46	0.1400
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	26.02	21.52	0.1419
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@187	25.68	21.18	0.1312
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	90@45	24.82	20.32	0.1076
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	24.86	20.36	0.1086
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@187	24.73	20.23	0.1054
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	26.04	21.54	0.1426
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	26.23	21.73	0.1489
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	25.81	21.31	0.1352
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	24.74	20.24	0.1057
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	24.96	20.46	0.1112
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	24.67	20.17	0.1040
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	26	21.5	0.1413
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.09	21.59	0.1442
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	25.65	21.15	0.1303
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	24.73	20.23	0.1054
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.86	20.36	0.1086
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	24.71	20.21	0.1050
77	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	26.03	21.53	0.1422
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	26.06	21.56	0.1432
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	25.71	21.21	0.1321
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	24.81	20.31	0.1074
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	24.87	20.37	0.1089
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	24.73	20.23	0.1054
77	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	26.06	21.56	0.1432
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	26.14	21.64	0.1459
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	25.63	21.13	0.1297
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	24.78	20.28	0.1067
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	24.9	20.4	0.1096
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	24.62	20.12	0.1028
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	26.05	21.55	0.1429
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.18	21.68	0.1472
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	25.67	21.17	0.1309
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	24.74	20.24	0.1057
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.81	20.31	0.1074
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	24.6	20.1	0.1023
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	26	21.5	0.1413
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	26.12	21.62	0.1452
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	25.76	21.26	0.1337
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	24.76	20.26	0.1062
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	24.86	20.36	0.1086
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	24.61	20.11	0.1026
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	26.01	21.51	0.1416
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.34	21.84	0.1528
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	25.81	21.31	0.1352
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	25.93	21.43	0.1390
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.17	21.67	0.1469
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	25.61	21.11	0.1291
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	24.71	20.21	0.1050
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.93	20.43	0.1104
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	24.64	20.14	0.1033
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	22.77	18.27	0.0671
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.96	18.46	0.0701
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	22.65	18.15	0.0653
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	19.83	15.33	0.0341

77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.86	15.36	0.0344
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	19.62	15.12	0.0325
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.12	19.62	0.0916
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	24.26	19.76	0.0946
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	24.09	19.59	0.0910

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	16.1	**PASS**	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11	**PASS**	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	6.8	**PASS**	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	14.7	**PASS**	-30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	16.1	**PASS**	-20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11.8	**PASS**	-10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	15.6	**PASS**	0℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	15.4	**PASS**	10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	16.2	**PASS**	20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	14.8	**PASS**	30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11.6	**PASS**	40℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	14	**PASS**	50℃

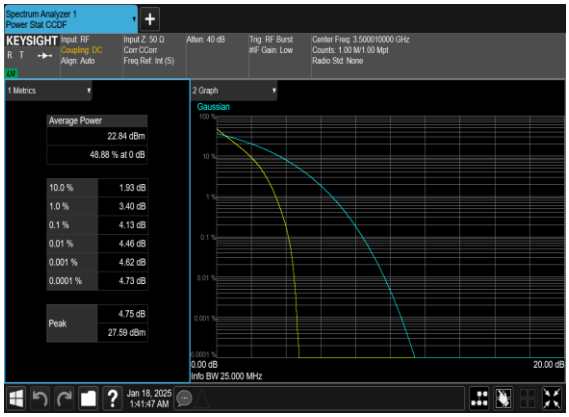
|MAX(△f)| =16.2 Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
fL – |MAX(△f)|	3450.869184	≧ 3450 MHz	PASS
fH + |MAX(△f)|	3548.751216	≦ 3550 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	4.13	13	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	5.23	13	**PASS**

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



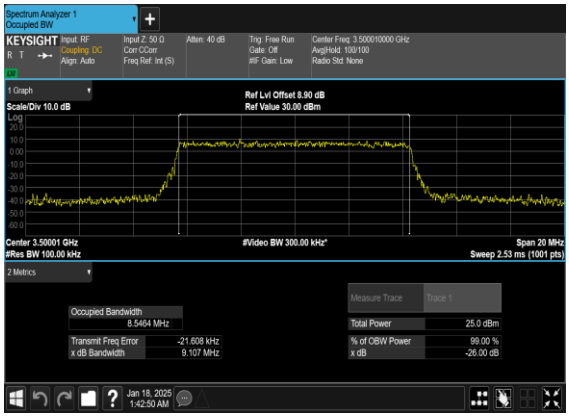
N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

Occupied Bandwidth

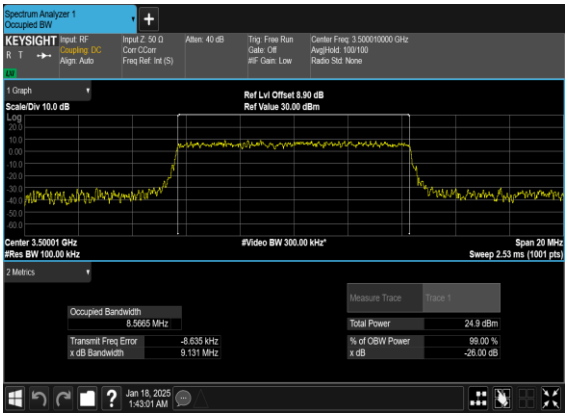
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5464	9.107
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5665	9.131
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5813	9.167
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5867	9.1
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.565	14.3
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.532	14.39
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.587	14.31
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.546	14.33
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.147	18.97
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.217	19.12
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.231	18.91
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.234	18.88
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.144	24.05
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.216	24.11
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.118	24.18
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.214	24.17
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.843	28.99
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.896	28.87
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.701	29.0
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.752	29.21
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.837	39.16
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.868	39.22
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.918	39.36
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.842	39.47
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.352	48.97
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.577	49.35
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.453	49.15
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.436	49.02
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.61	59.74
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.839	59.69
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.875	59.66
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.715	59.66
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.617	69.65
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.38	69.62
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.517	69.74
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.618	69.67
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.358	79.9
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.647	79.94

77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.416	79.84
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.479	79.97
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.346	90.17
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.337	90.23
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.539	90.26
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.533	90.2
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.588	100.5
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.44	100.6
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.644	100.5
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.444	100.5

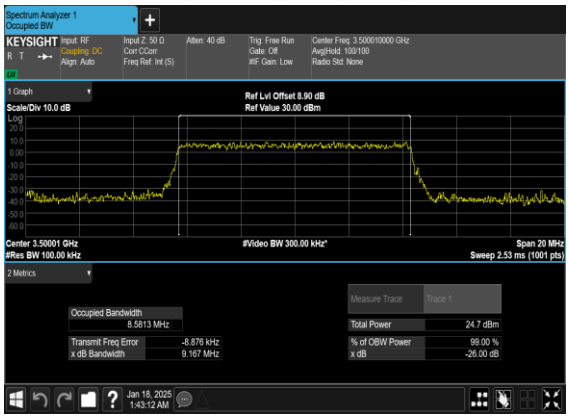
N77(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



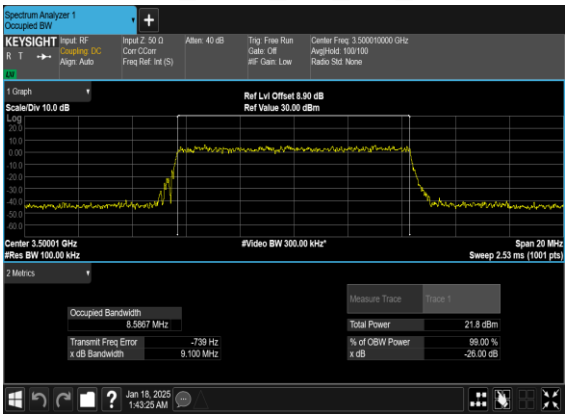
N77(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



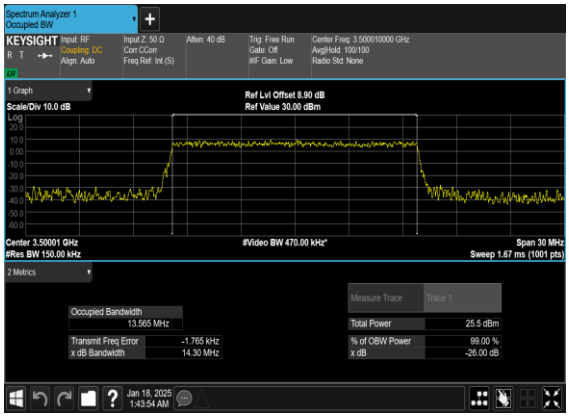
N77(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



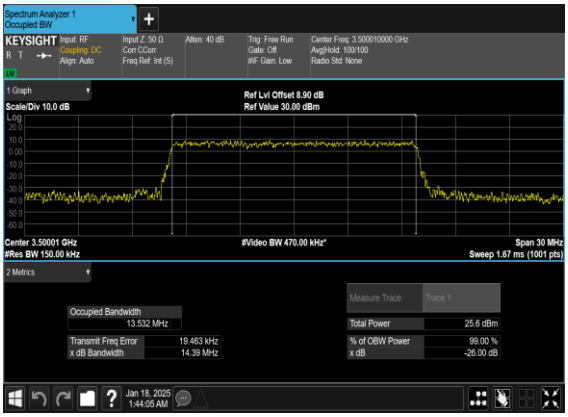
N77(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



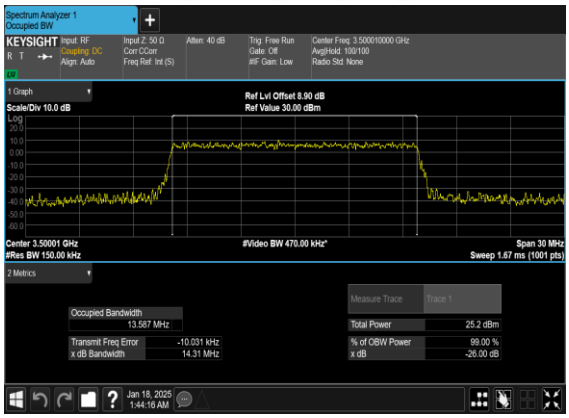
N77(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



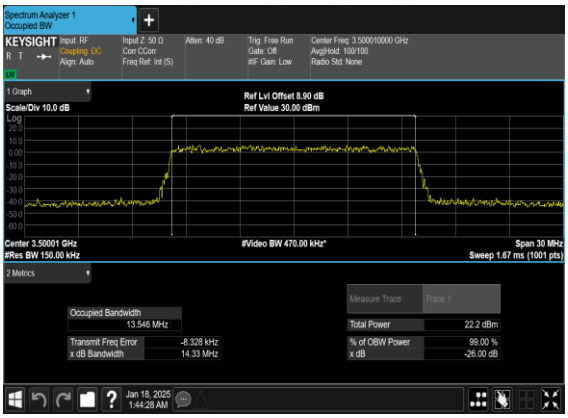
N77(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

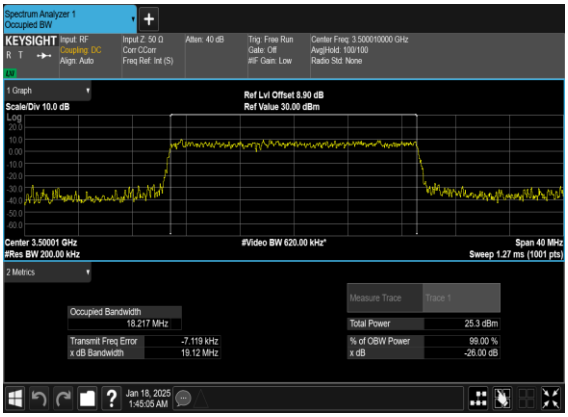


N77(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

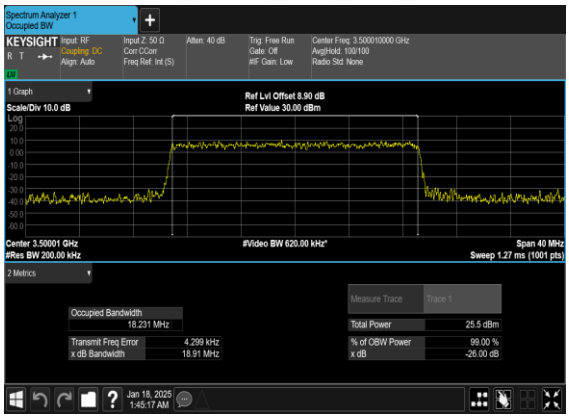


N77(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

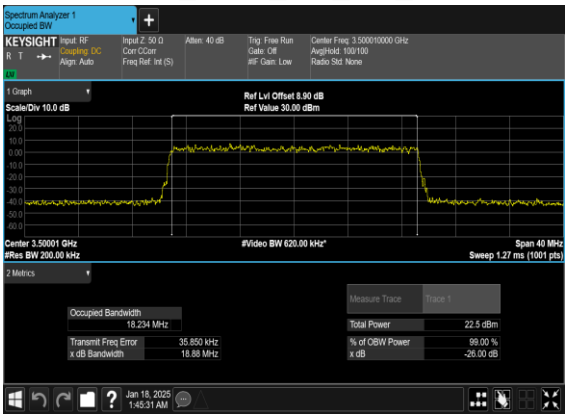
N77(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



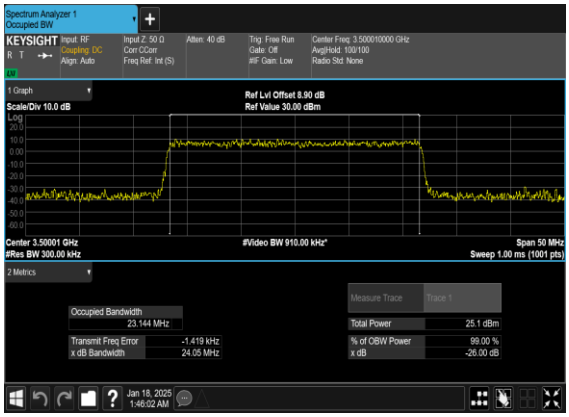
N77(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



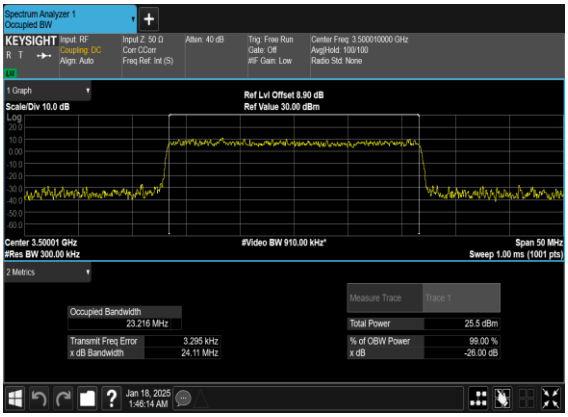
N77(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N77(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

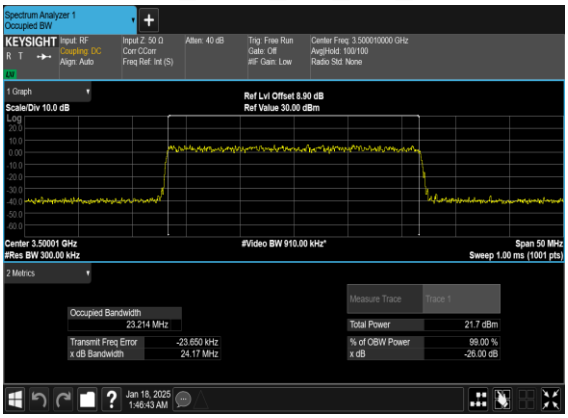


N77(25M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

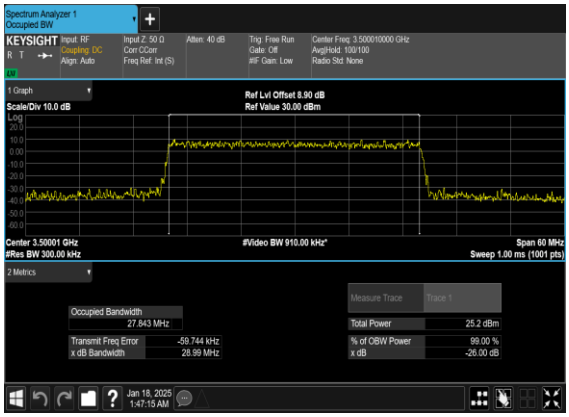


N77(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

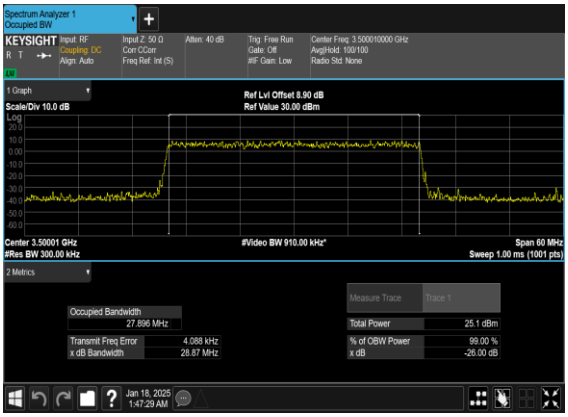
N77(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



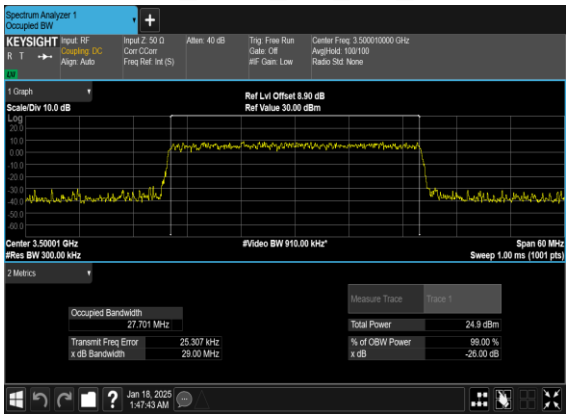
N77(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



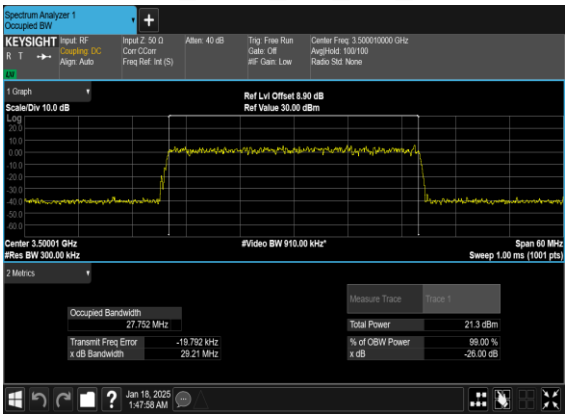
N77(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

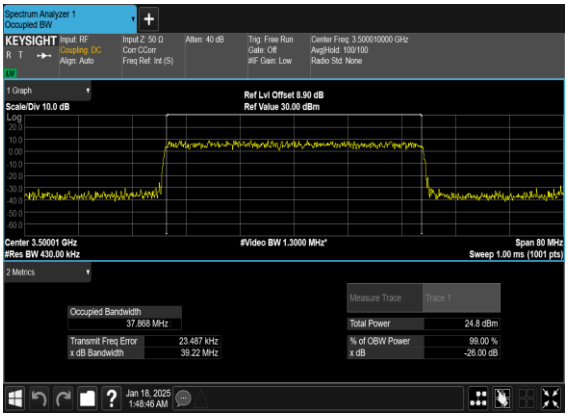


N77(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

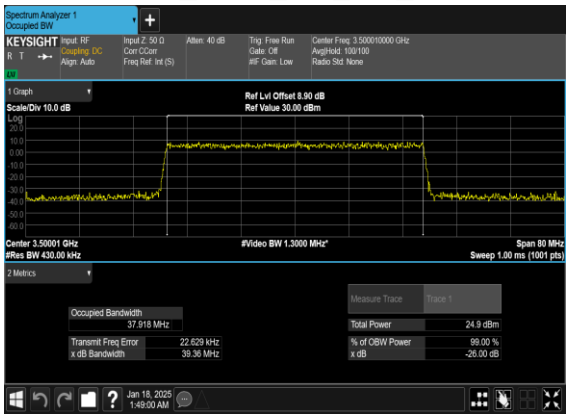


N77(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

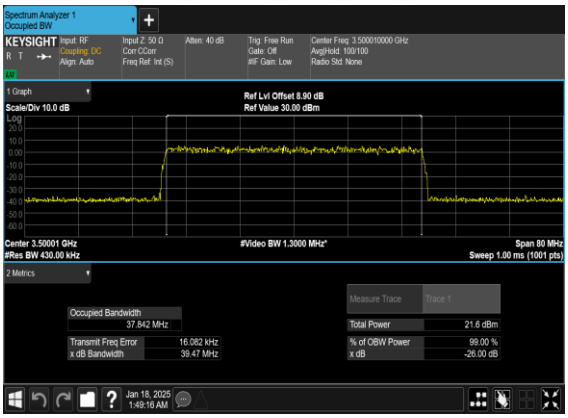
N77(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

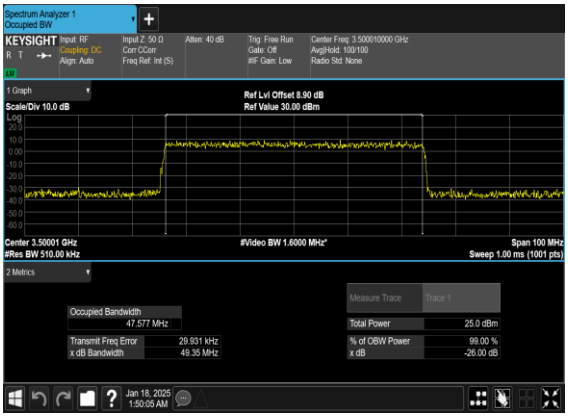


N77(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

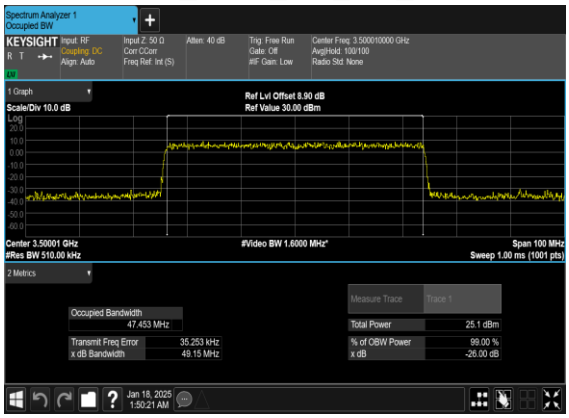


N77(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

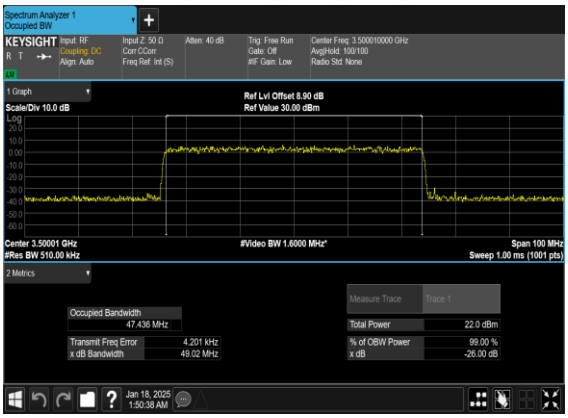
N77(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



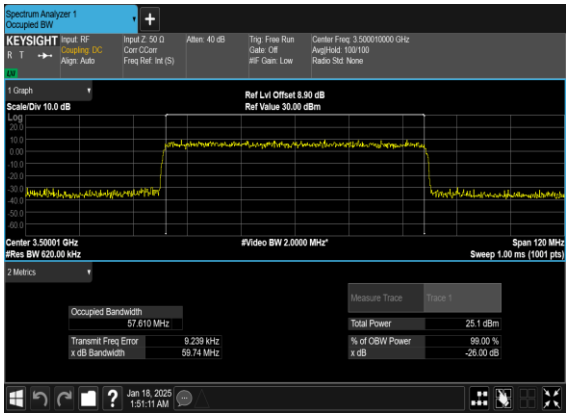
N77(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

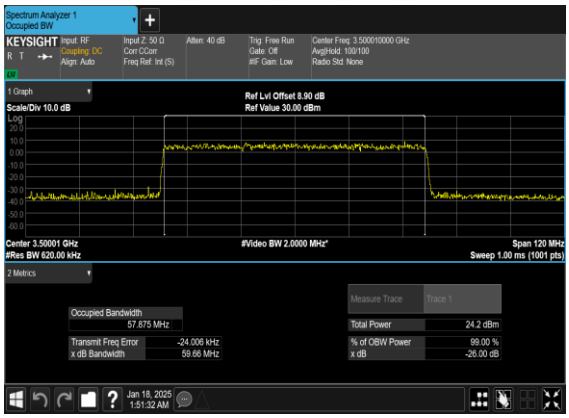


N77(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

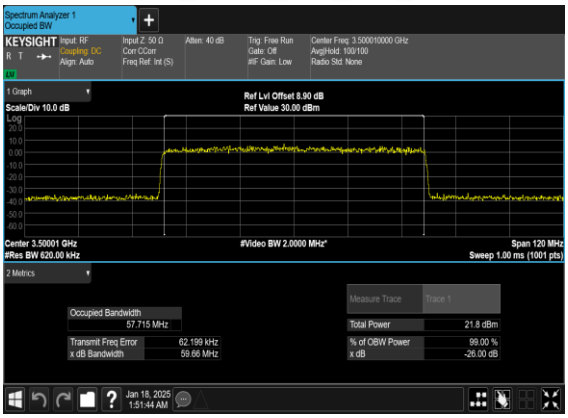


N77(60M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N77(60M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

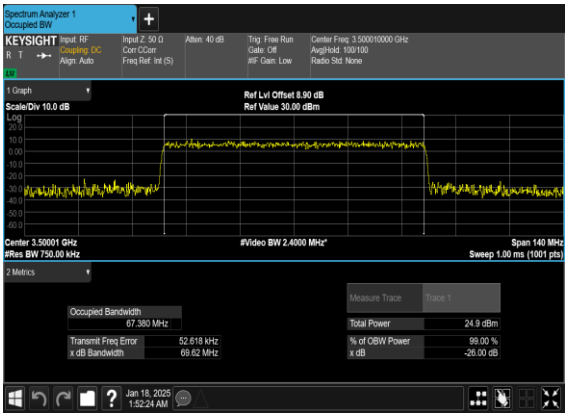


N77(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



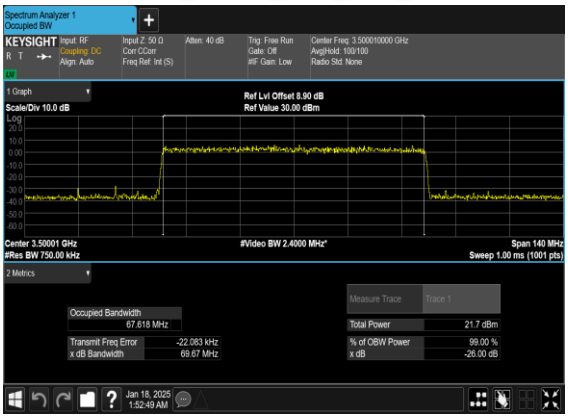
N77(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N77(70M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



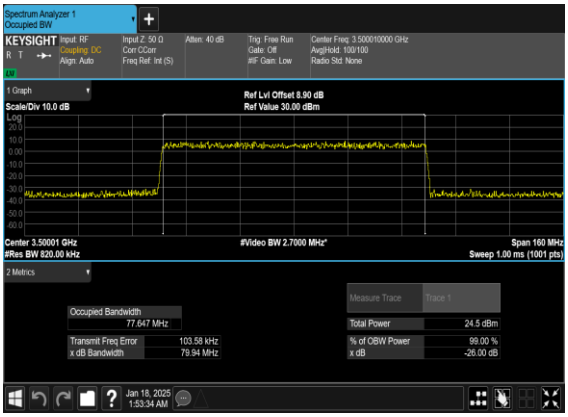
N77(70M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N77(70M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



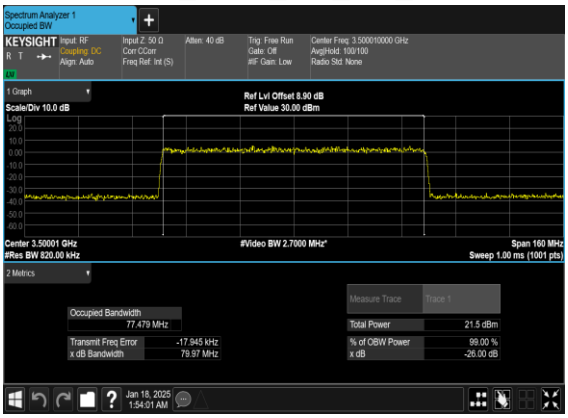
N77(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N77(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



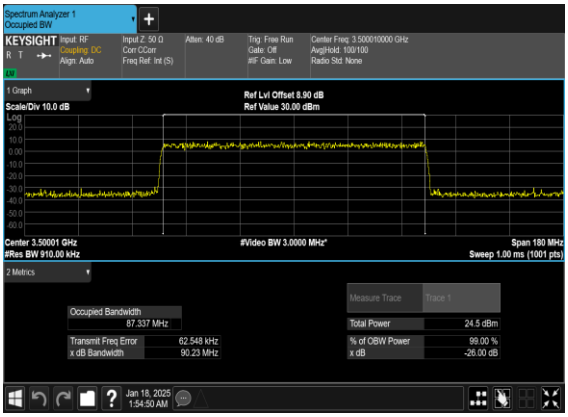
N77(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N77(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

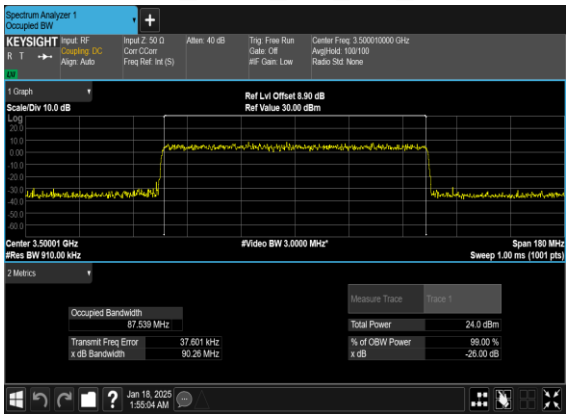


N77(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

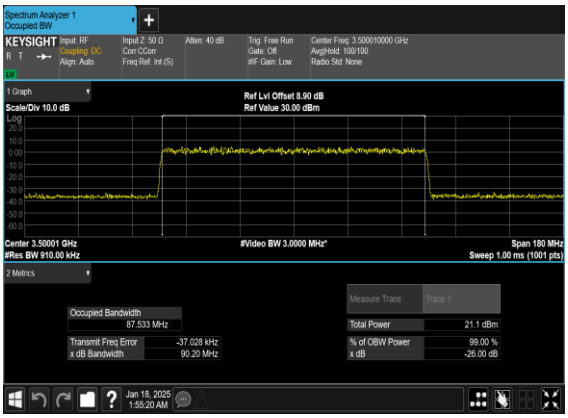
N77(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

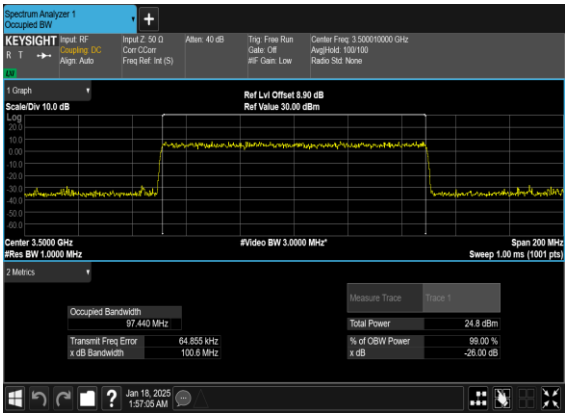


N77(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

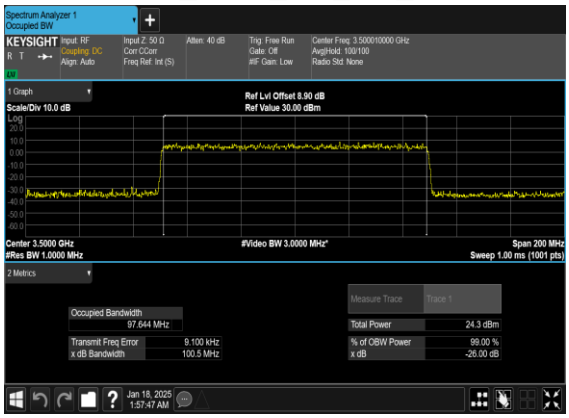


N77(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

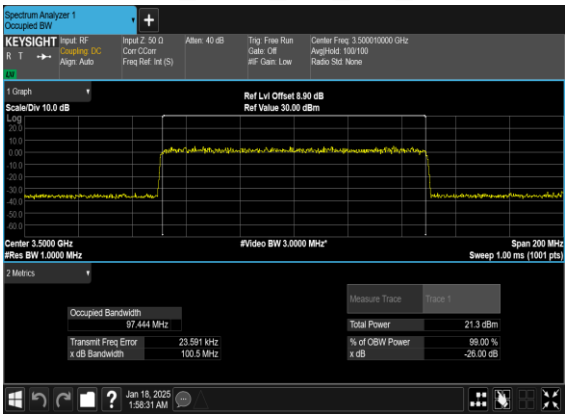
N77(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



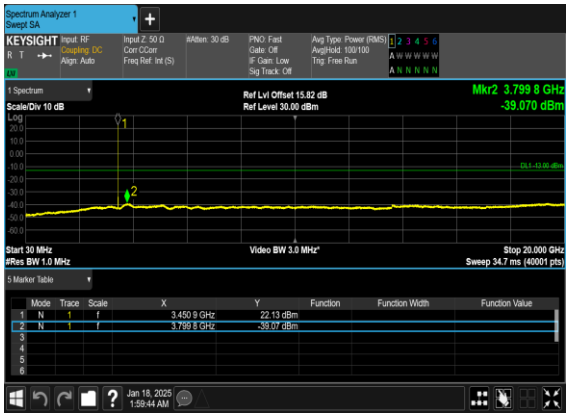
N77(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



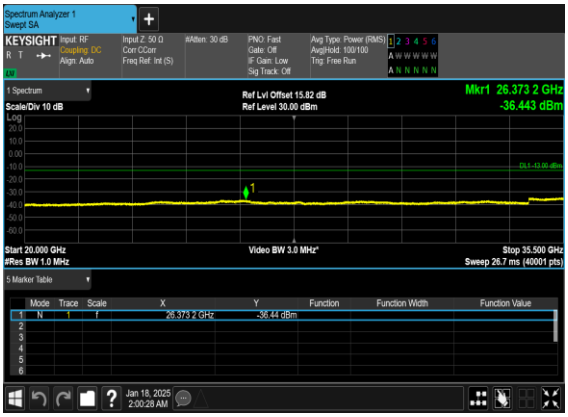
Conducted Spurious Emissions

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	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

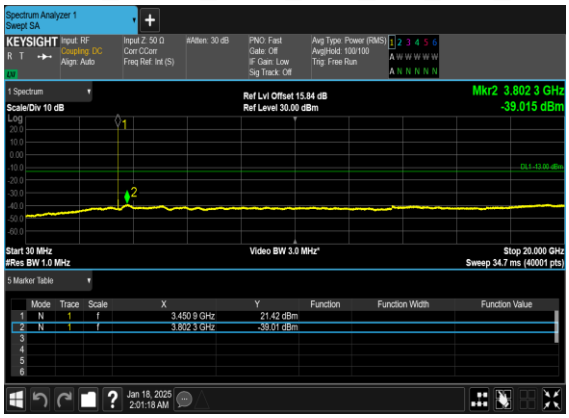
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



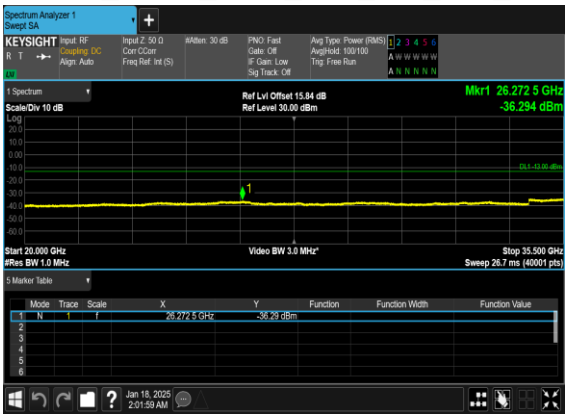
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



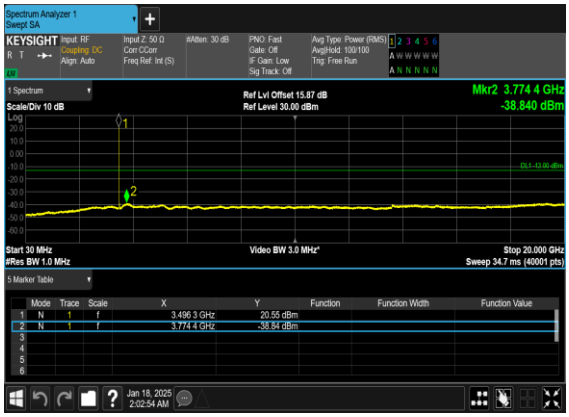
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



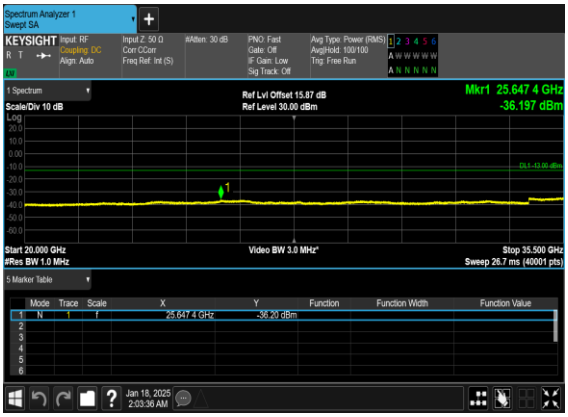
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



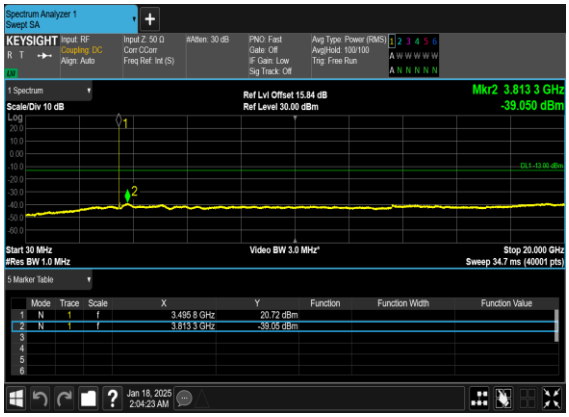
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



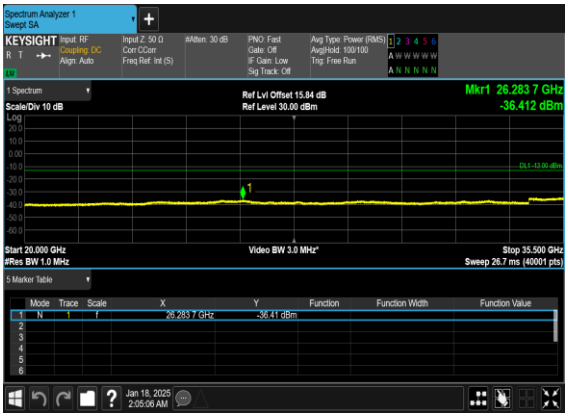
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



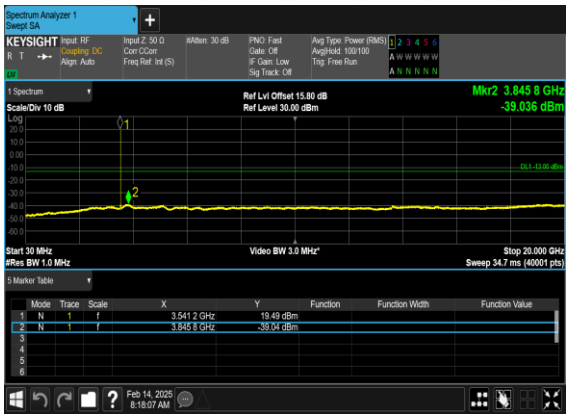
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



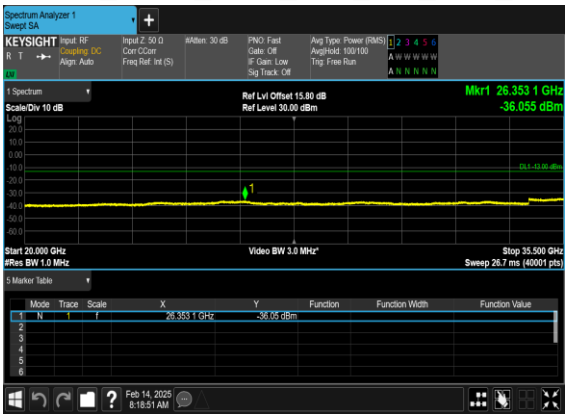
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



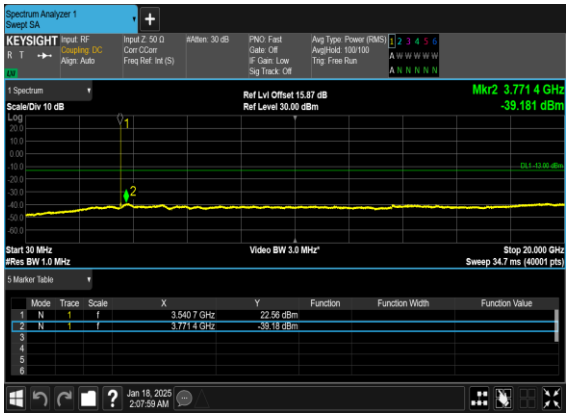
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



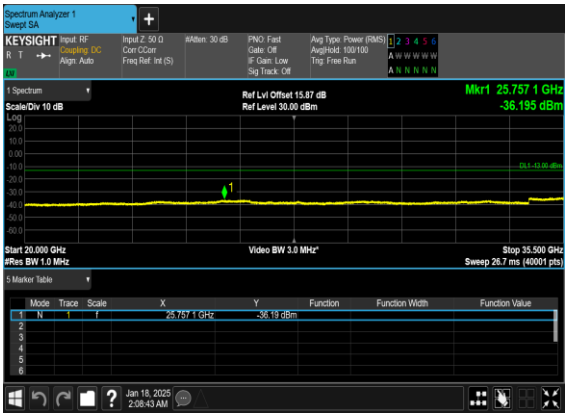
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



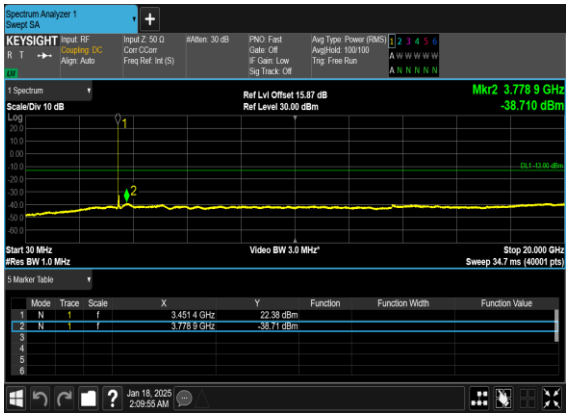
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



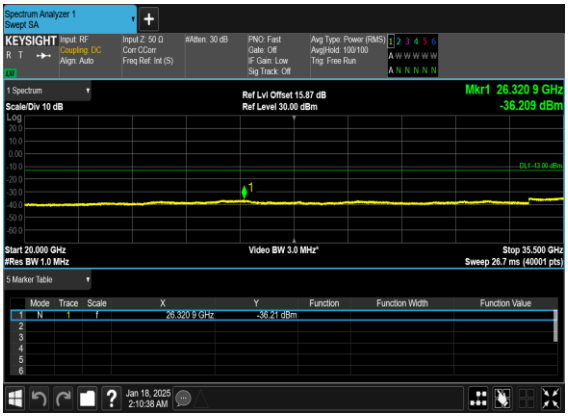
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



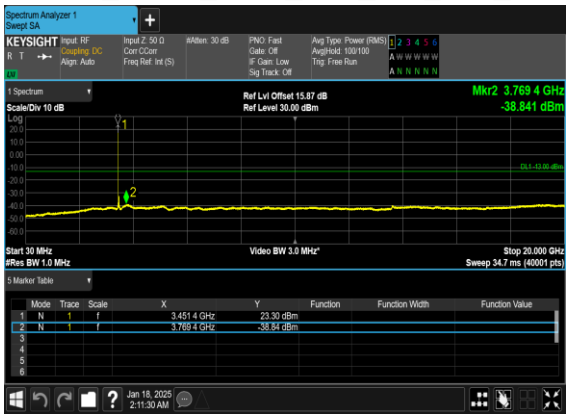
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



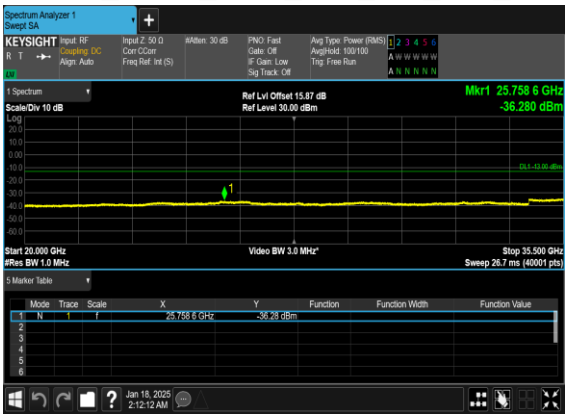
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



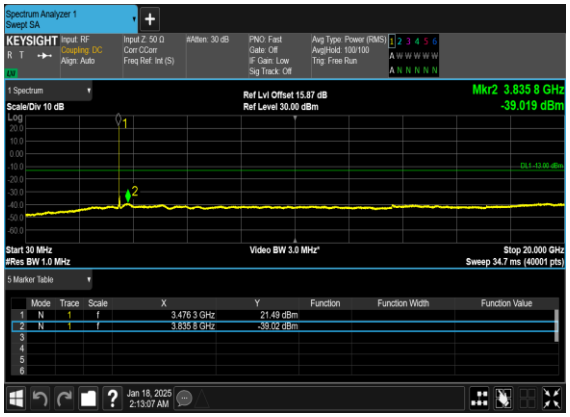
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



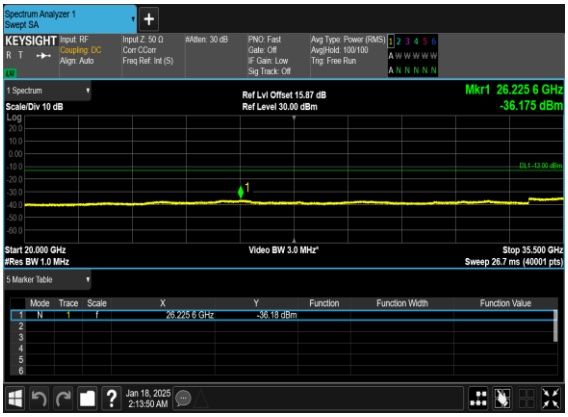
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



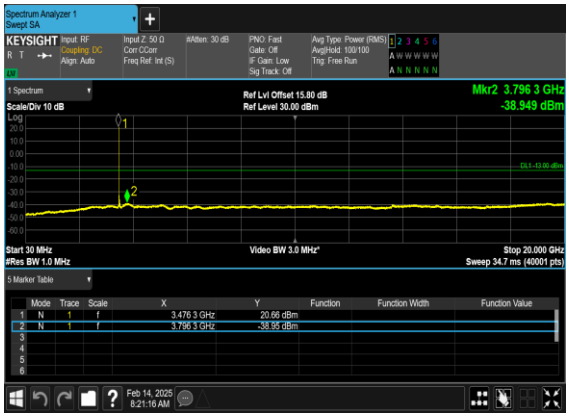
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



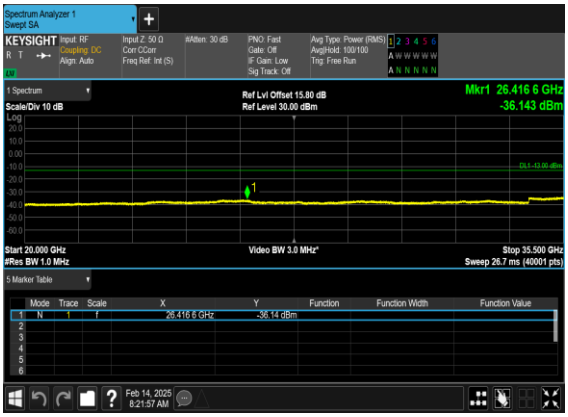
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



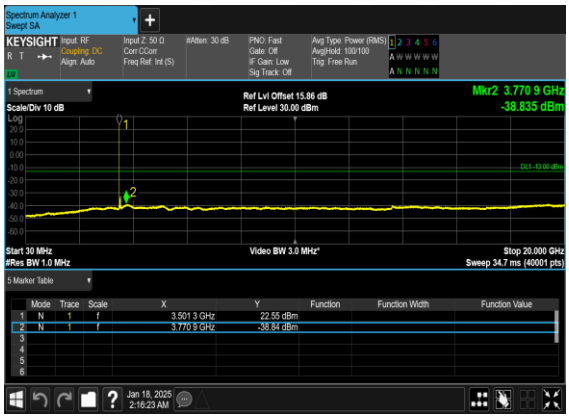
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



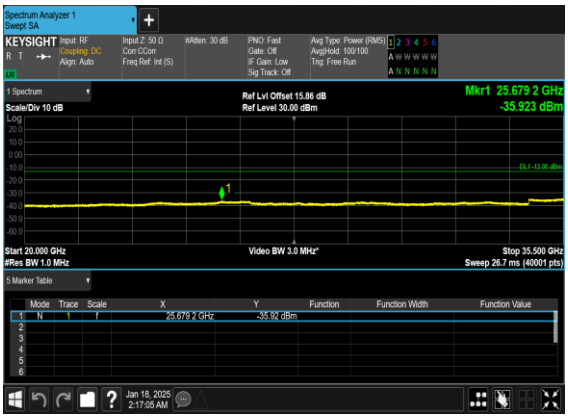
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



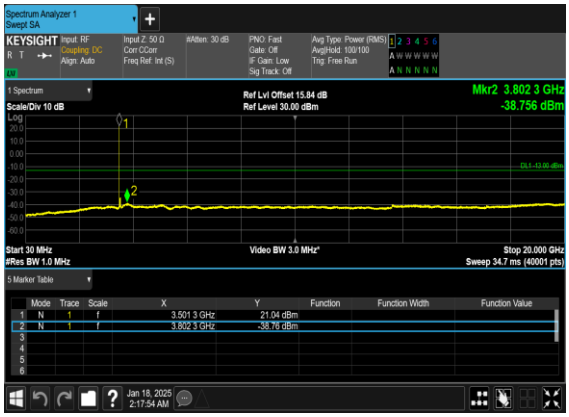
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



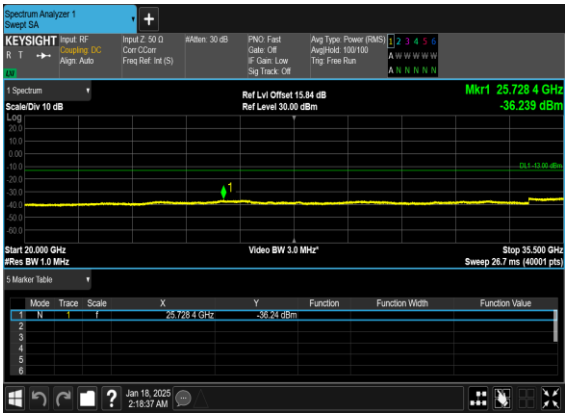
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



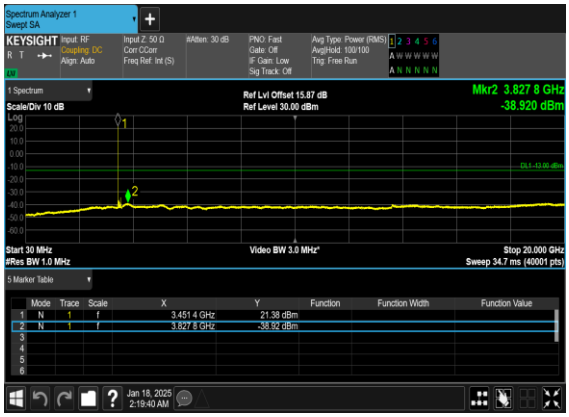
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



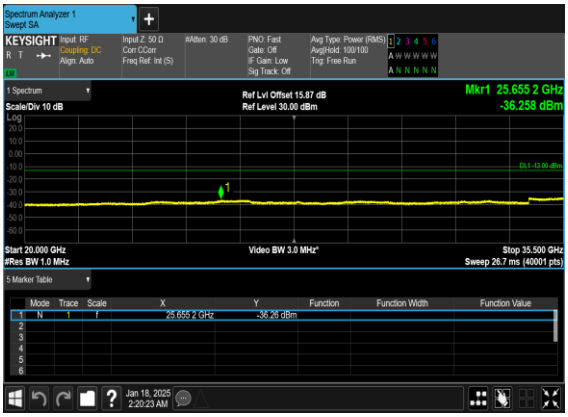
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



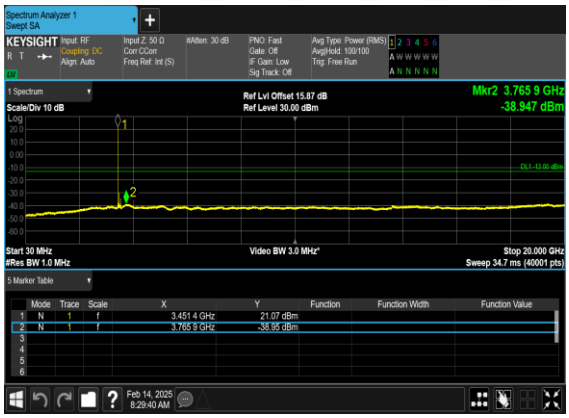
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



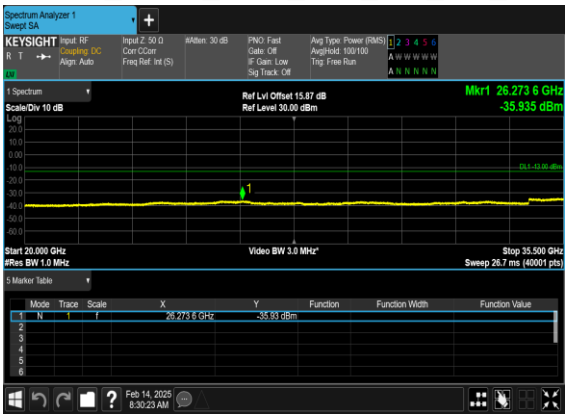
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



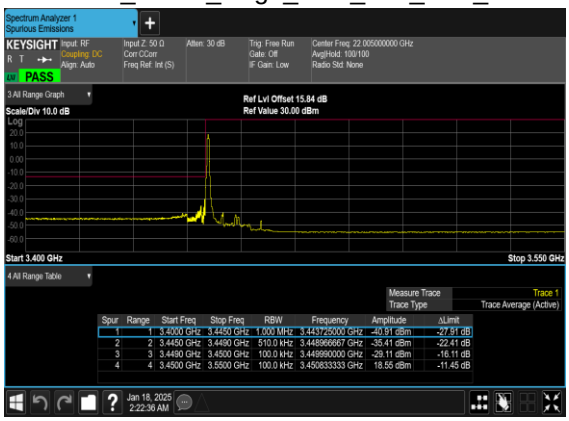
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



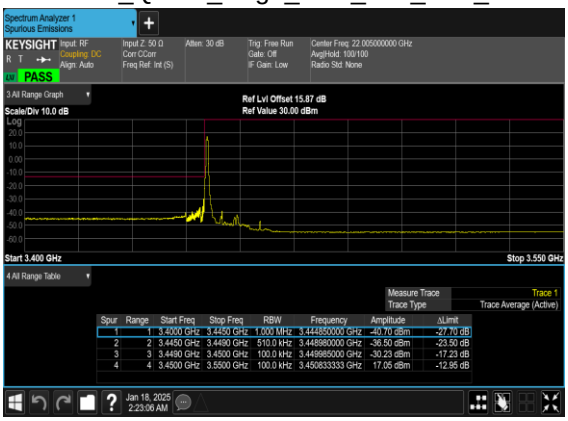
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
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	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@132	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@132	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@272	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	see graph	**PASS**

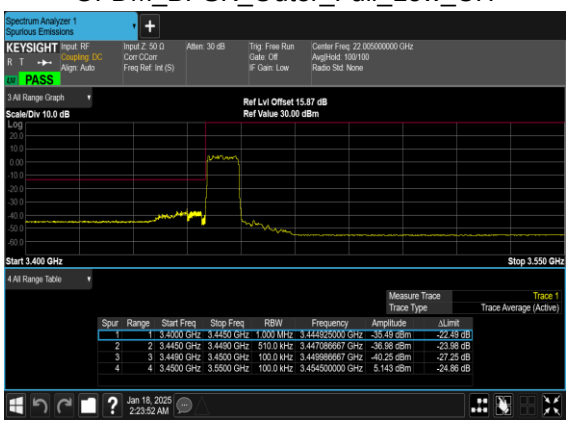
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



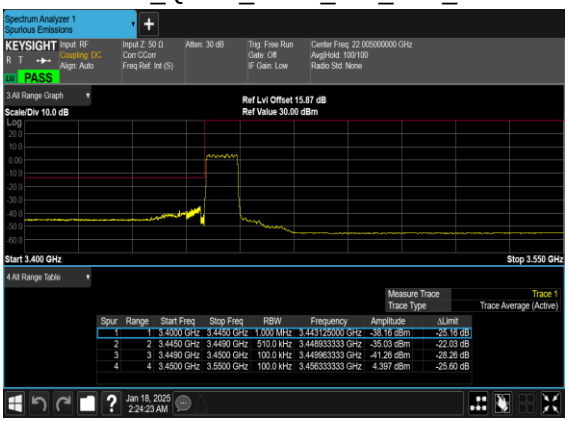
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



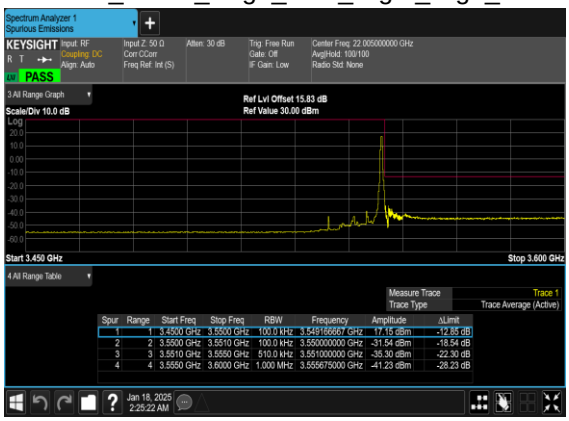
N77(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



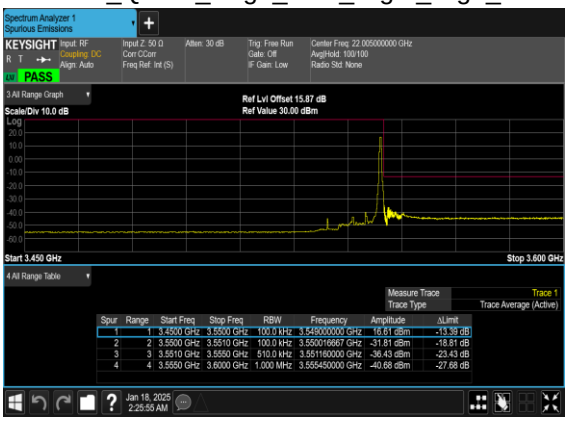
N77(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



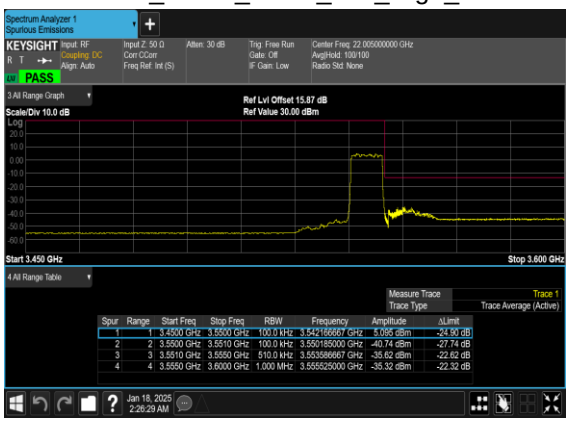
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



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