



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2323-2, XT2323-5, XT2323-6
FCC ID : IHDT56AL9
STANDARD : 47 CFR Part 2, 27 Subpart O
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : May 18, 2022 ~ Jun. 01, 2023

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.

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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



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77, n78)	EIRP < 1Watt		
3.5	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(l)(2)	Conducted Band Edge Measurement (5G NR n77, n78)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77, n78)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.9	§27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(l)(2)	Radiated Spurious Emission (5G NR n77, n78)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 37.96 dB at 7764.00 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	XT2323-2, XT2323-5, XT2323-6
FCC ID	IHDT56AL9
IMEI Code	Conducted : 351606570017474/351606570017482 Radiation : 351606570016138/351606570016146
HW Version	DVT2
SW Version	T2TV33.23
EUT Stage	Identical Prototype

Remark: The three models XT2323-2, XT2323-5, XT2323-6 are only for market differentiation, all the others are the same.



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
SCS	30kHz
Bandwidth	10 / 15 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz
Antenna Gain	<p><Ant. 1> 5G NR n77: -6.5 dBi 5G NR n78: -6.5 dBi</p> <p><Ant. 2> 5G NR n77: -2.5 dBi 5G NR n78: -2.5 dBi</p> <p><Ant. 3> 5G NR n77: -2.4 dBi 5G NR n78: -2.4 dBi</p> <p><Ant. 5> 5G NR n77: -2.4 dBi 5G NR n78: -2.4 dBi</p>
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 SISO mode for Ant.3 and MIMO mode for Ant(3+2).
2. The device supports two PAs for 5G NR n77(main PA and other PA for ENDC_30A_n77A), the maximum power of other PA is higher than the main PA, but the antenna gain of main PA is higher, therefore, we chose main PA to calculate the EIRP and show in the report.
3. 5G NR n77/n78 support UL MIMO mode for Ant(3+2) / Ant(5+1), only the worst test data of Ant(3+2) for n77 is shown in the report by referring to the higher conducted power.
4. 5G NR n77/n78 supports SA and NSA mode. According to the maximum power between SA and NSA mode, SA covers NSA mode and 5G NR n77 covers n78.
5. The device supports HPUE mode for 5G NR n77. (Power class 2 for SISO mode & Power class 1.5 for MIMO mode)
6. 5G NR n77/n78 UL_MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.
7. 5G NR n78 only supports CP-OFDM modulation in UL MIMO mode.
8. For UL MIMO mode, the conducted BE/Spurious are tested at single antenna port and add 10*log(NANT) 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

Accessories Information				
AC Adapter	Brand Name	Motorola(Salom)	Model Name	MC-301
Base Battery	Brand Name	Motorola (ATL)	Model Name	PM29
Flip Battery	Brand Name	Motorola (ATL)	Model Name	PV11
USB Cable 1	Brand Name	Motorola(Cabletech)	Model Name	SC18D13216
USB Cable 2	Brand Name	Motorola(Luxshare)	Model Name	SC18D13217
USB Cable 3	Brand Name	Motorola(Saibao)	Model Name	SC18D13215
USB Cable 4	Brand Name	Motorola(Saibao)	Model Name	SC18D86732

1.6 Modification of EUT

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

1.7 Maximum EIRP and Emission Designator

5G NR n77		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	3705.00 ~ 3975.00	0.4920	8M60G7D	0.3882	8M61W7D
15	3705.52 ~ 3972.48	0.5093	13M6G7D	0.4027	13M6W7D
20	3710.01 ~ 3969.99	0.5093	18M2G7D	0.4036	18M2W7D
30	3715.02 ~ 3964.98	0.5129	27M9G7D	0.4064	27M9W7D
40	3720.00 ~ 3960.00	0.5236	37M9G7D	0.4217	38M0W7D
50	3725.01 ~ 3954.99	0.4977	47M5G7D	0.4018	47M5W7D
60	3730.02 ~ 3949.98	0.5070	58M0G7D	0.3963	58M0W7D
70	3735.00 ~ 3945.00	0.4864	67M7G7D	0.3873	67M6W7D
80	3740.01 ~ 3939.99	0.4831	77M5G7D	0.3802	77M8W7D
90	3745.02 ~ 3934.98	0.4808	87M5G7D	0.3811	87M7W7D
100	3750.00 ~ 3930.00	0.5272	97M7G7D	0.3819	97M9W7D



5G NR n78		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	3705.00 ~ 3795.00	0.1361	8M60G7D	0.1067	8M61W7D
15	3707.52 ~ 3792.48	0.1422	13M6G7D	0.1306	13M6W7D
20	3710.01 ~ 3789.99	0.1413	18M2G7D	0.1117	18M2W7D
30	3715.02 ~ 3784.98	0.1432	27M9G7D	0.1330	27M9W7D
40	3720.00 ~ 3780.00	0.1445	37M9G7D	0.1384	38M0W7D
50	3725.01 ~ 3774.99	0.1396	47M5G7D	0.1312	47M5W7D
60	3730.02 ~ 3769.98	0.1374	58M0G7D	0.1262	58M0W7D
70	3735.00 ~ 3765.00	0.1346	67M7G7D	0.1107	67M6W7D
80	3740.01 ~ 3759.99	0.1303	77M5G7D	0.1180	77M8W7D
90	3745.02 ~ 3754.98	0.1288	87M5G7D	0.1107	87M7W7D
100	3750.00 ~ 3750.00	0.1279	97M7G7D	0.1021	97M9W7D

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. 5G NR n77 SISO power is lower than UL MIMO mode, thus not show SISO power here.
3. 5G NR n78 UL MIMO power is lower than SISO mode, thus not show MIMO power here.
4. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.8 Testing Location

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.
	03CH04-KS 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	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test data subcontracted: Conducted test cases for n77/n78 MIMO mode in section 3 of this report

1.9 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24al

1.10 Applicable Standards

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

- 47 CFR Part 2, 27
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems 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 are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

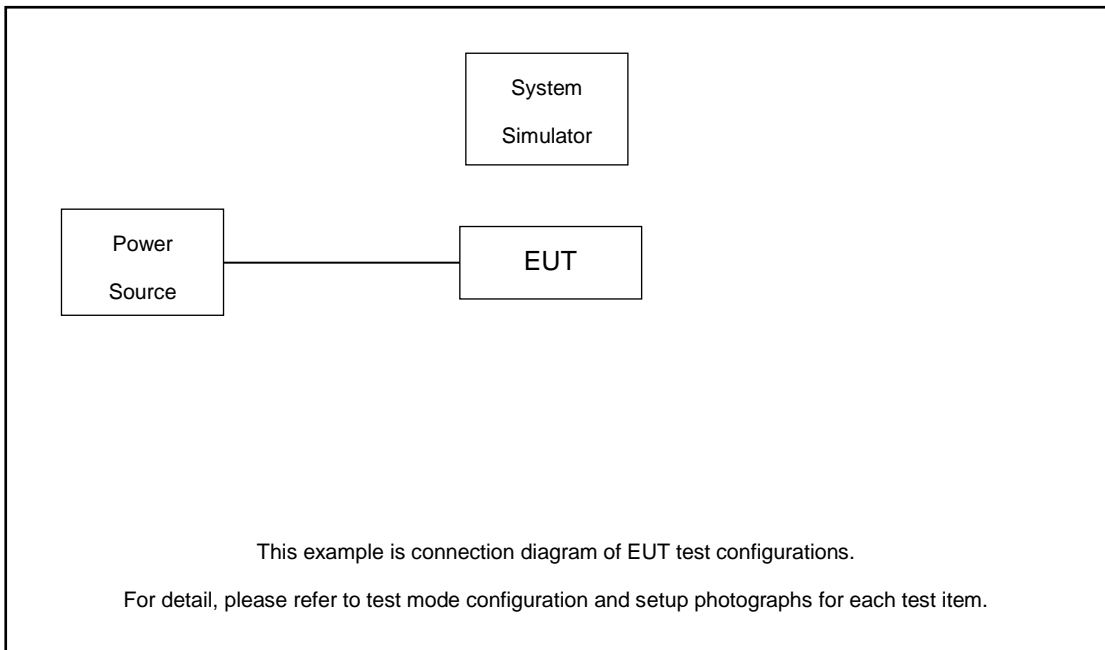
For radiated measurement, pre-scanned flip open and close state in three orthogonal panels X, Y, Z. The worst cases (Z plane with flip open) were recorded in this report

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.

Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)										Modulation					RB #			Test Channel		
		10	15	20	25	30	40	50	60	70~90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Partial	Full	L	M	H
Max. Output Power	n77	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	n78	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
Peak-to-Average Ratio	n77			v	-						v	v	v				v		v	v	v	v
26dB and 99% Bandwidth	n77	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v			v		v	
Conducted Band Edge	n77	v			-			v			v	v	v				v		v	v		v
Conducted Spurious Emission	n77	v			-			v			v	v	v				v			v	v	v
Frequency Stability	n77	v		v	-								v						v		v	
E.I.R.P	n77	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	n78	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
Radiated Spurious Emission	n77	Worst Case																		v	v	v
Note	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. 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. Frequency Stability : Normal Voltage = 3.91V; Low Voltage =3.4V; High Voltage =4.5V. All test items are based on engineering evaluation. 																					

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	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 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 6.5 dB and 20dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 6.5 + 10 = 26.5 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
70	Channel	649000	656000	663000
	Frequency	3735	3840	3945
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664332
	Frequency	3715.02	3840	3964.98
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99
15	Channel	647168	656000	664832
	Frequency	3707.52	3840	3972.48
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975



5G n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000		
	Frequency	3750		
90	Channel	649668	650000	650332
	Frequency	3745.02	3750	3754.98
80	Channel	649334	650000	650666
	Frequency	3740.01	3750	3759.99
70	Channel	649000	650000	651000
	Frequency	3735	3750	3765
60	Channel	648668	650000	651332
	Frequency	3730.02	3750	3769.98
50	Channel	648334	650000	651666
	Frequency	3725.01	3750	3774.99
40	Channel	648000	650000	652000
	Frequency	3720	3750	3780
30	Channel	647668	650000	652332
	Frequency	3715.02	3750	3784.98
20	Channel	647334	650000	652666
	Frequency	3710.01	3750	3789.99
15	Channel	647168	650000	652832
	Frequency	3707.52	3750	3792.48
10	Channel	647000	650000	653000
	Frequency	3705	3750	3795

3 Conducted Test Items

3.1 Measuring Instruments

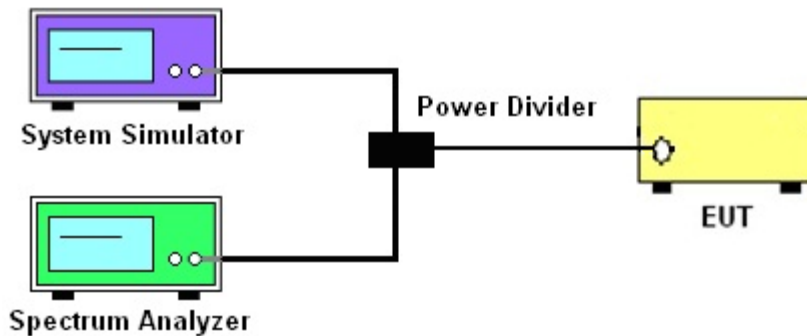
See list of measuring instruments of this test report.

3.2 Test Setup

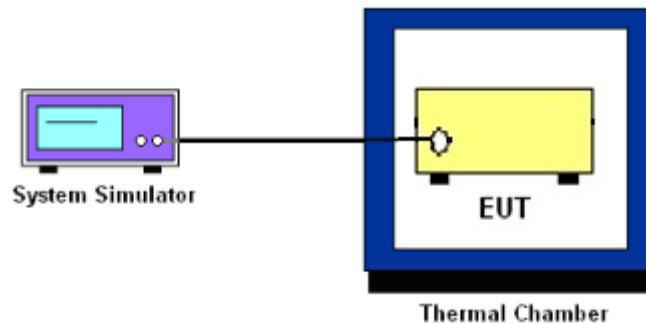
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted 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 and EIRP

3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

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

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77, n78.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 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 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

3.7.1 Description of Conducted Band Edge Measurement

27.53(l)(2)

For mobile operations in the 3700-3980 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, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 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 in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

$$\begin{aligned} & \text{The limit line is derived from } 43 + 10\log(P)\text{dB below the transmitter power } P(\text{Watts}) \\ & = P(\text{W}) - [43 + 10\log(P)] \text{ (dB)} \\ & = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm.} \end{aligned}$$

9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.



3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz 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. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= P(W)- [43 + 10log(P)] (dB)
= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
= -13dBm.



3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 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.

3.9.3 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 $20\pm 5^{\circ}\text{C}$ 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.

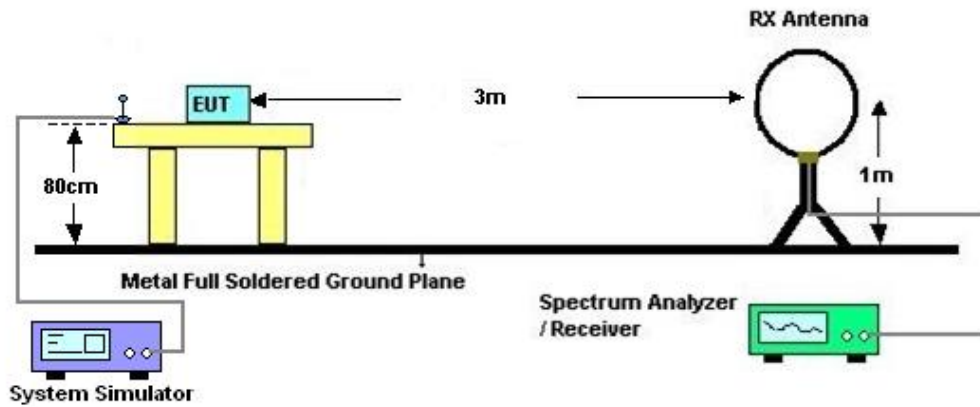
4 Radiated Test Items

4.1 Measuring Instruments

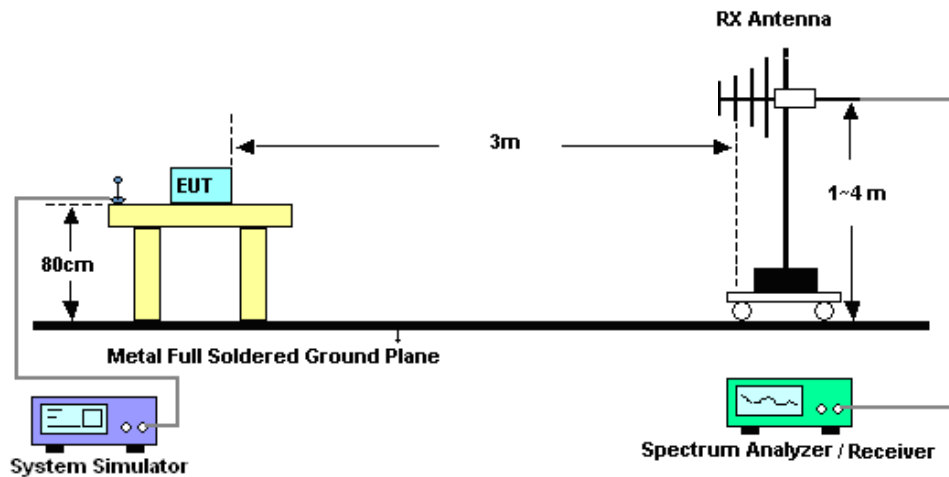
See list of measuring instruments of this test report.

4.2 Test Setup

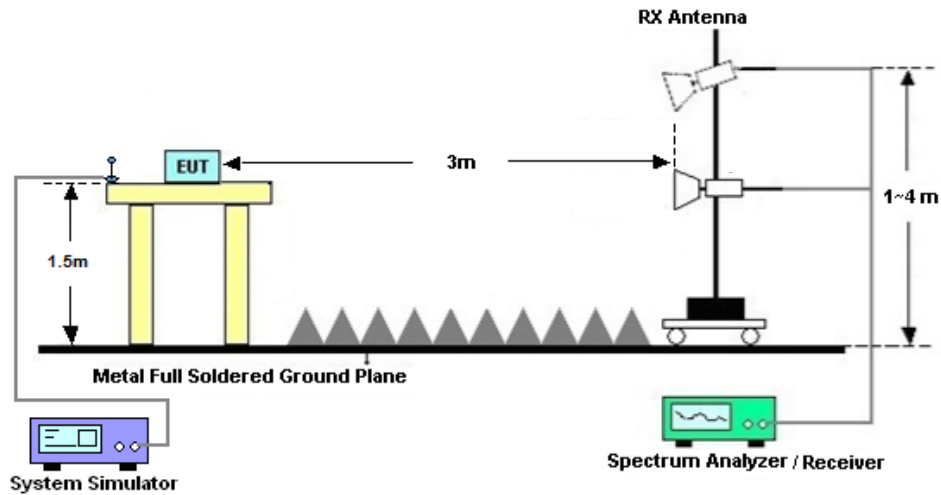
4.2.1 For radiated test below 30MHz



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

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

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

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [43 + 10\log(P)] \text{ (dB)}$
= $[30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
= -13dBm.



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 12, 2022	May 20, 2023~Jun. 01, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	May 20, 2023~Jun. 01, 2023	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 15, 2022	May 20, 2023~Jun. 01, 2023	Jul. 14, 2023	Conducted (TH01-KS)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2022	May 18, 2023~May 30, 2023	Jul. 06, 2023	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2022	May 18, 2023~May 30, 2023	Dec. 24, 2023	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 07, 2022	May 18, 2023~May 30, 2023	Jul. 06, 2023	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 12, 2022	May 24, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	May 24, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Apr. 09, 2023	May 24, 2023	Apr. 08, 2024	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 16, 2022	May 24, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	May 24, 2023	Jan. 07, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz	Jul. 11, 2022	May 24, 2023	Jul. 10, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2023	May 24, 2023	Jan. 04, 2024	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 12, 2022	May 24, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 12, 2022	May 24, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	May 24, 2023	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	May 24, 2023	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	May 24, 2023	NCR	Radiation (03CH04-KS)

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 <TH01-KS>

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.1 %

Uncertainty of Conducted Measurement <TH01-SZ>

Test Item	Uncertainty
Conducted Power	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.13 %

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.82 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.56 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.54 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

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

FR1 N77(ANT3)

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=-2.4dB (Max EIRP for n77)

NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
77	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	27.74	25.34	0.3420
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	27.77	25.37	0.3443
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	26.71	24.31	0.2698
77	30	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	27.49	25.09	0.3228
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@1	27.48	25.08	0.3221
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.38	23.98	0.2500
77	30	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@1	27.78	25.38	0.3451
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@1	27.8	25.4	0.3467
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@1	26.67	24.27	0.2673
77	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@1	27.86	25.46	0.3516
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	27.85	25.45	0.3508
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	26.73	24.33	0.2710
77	30	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	27.68	25.28	0.3373
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@1	27.61	25.21	0.3319
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.47	24.07	0.2553
77	30	15	664832	3972.48	DFT-s-OFDM PI/2 BPSK	1@1	27.83	25.43	0.3491
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@1	27.87	25.47	0.3524
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@1	26.72	24.32	0.2704
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	27.89	25.49	0.3540
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	27.86	25.46	0.3516
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	26.66	24.26	0.2667
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	27.61	25.21	0.3319
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@1	27.61	25.21	0.3319
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.55	24.15	0.2600
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@1	27.87	25.47	0.3524
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	27.81	25.41	0.3475
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	26.78	24.38	0.2742
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	27.9	25.5	0.3548
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	27.88	25.48	0.3532
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	26.81	24.41	0.2761
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	27.78	25.38	0.3451
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@1	27.81	25.41	0.3475
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.64	24.24	0.2655
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@1	27.93	25.53	0.3573
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	27.91	25.51	0.3556
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	26.88	24.48	0.2805
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	28	25.6	0.3631
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	28.09	25.69	0.3707
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	26.94	24.54	0.2844

NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	27.88	25.48	0.3532
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@1	27.92	25.52	0.3565
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.85	24.45	0.2786
77	30	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@1	28.09	25.69	0.3707
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@1	28.07	25.67	0.3690
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	27.05	24.65	0.2917
77	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	27.8	25.4	0.3467
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	27.72	25.32	0.3404
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	26.76	24.36	0.2729
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	27.58	25.18	0.3296
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@1	27.6	25.2	0.3311
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.39	23.99	0.2506
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@1	27.72	25.32	0.3404
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	27.7	25.3	0.3388
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	26.64	24.24	0.2655
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	27.73	25.33	0.3412
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	27.7	25.3	0.3388
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	26.76	24.36	0.2729
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	27.48	25.08	0.3221
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@1	27.48	25.08	0.3221
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.51	24.11	0.2576
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	1@1	27.59	25.19	0.3304
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	27.57	25.17	0.3289
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	26.45	24.05	0.2541
77	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@1	27.63	25.23	0.3334
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	27.67	25.27	0.3365
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	26.64	24.24	0.2655
77	30	70	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	27.53	25.13	0.3258
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@1	27.59	25.19	0.3304
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.36	23.96	0.2489
77	30	70	663000	3945	DFT-s-OFDM PI/2 BPSK	1@1	27.5	25.1	0.3236
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@1	27.49	25.09	0.3228
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@1	26.47	24.07	0.2553
77	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	27.64	25.24	0.3342
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	27.51	25.11	0.3243
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	26.54	24.14	0.2594
77	30	80	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	27.46	25.06	0.3206
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@1	27.45	25.05	0.3199
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.44	24.04	0.2535
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	1@1	27.29	24.89	0.3083
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	27.25	24.85	0.3055
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	26.15	23.75	0.2371
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	27.63	25.23	0.3334
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	27.66	25.26	0.3357
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	26.63	24.23	0.2649
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	27.41	25.01	0.3170
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@1	27.42	25.02	0.3177

NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.42	24.02	0.2523
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	1@1	27.28	24.88	0.3076
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@1	27.31	24.91	0.3097
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	26.16	23.76	0.2377
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	27.78	25.38	0.3451
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	28.11	25.71	0.3724
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	27.61	25.21	0.3319
77	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	27.76	25.36	0.3436
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	27.6	25.2	0.3311
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	27.61	25.21	0.3319
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	26.77	24.37	0.2735
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	26.52	24.12	0.2582
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	26.51	24.11	0.2576
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	25.25	22.85	0.1928
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	24.84	22.44	0.1754
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	24.91	22.51	0.1782
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	23.24	20.84	0.1213
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	22.97	20.57	0.1140
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	23.02	20.62	0.1153
77	30	100	650000	3750	CP-OFDM QPSK	137@68	26.21	23.81	0.2404
77	30	100	650000	3750	CP-OFDM QPSK	1@1	26.07	23.67	0.2328
77	30	100	650000	3750	CP-OFDM QPSK	1@271	26.11	23.71	0.2350
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	27.44	25.04	0.3192
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	27.39	24.99	0.3155
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@271	27.47	25.07	0.3214
77	30	100	656000	3840	DFT-s-OFDM QPSK	135@67	27.41	25.01	0.3170
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@1	27.4	25	0.3162
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@271	27.47	25.07	0.3214
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	135@67	26.39	23.99	0.2506
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.39	23.99	0.2506
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@271	26.26	23.86	0.2432
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	135@67	24.92	22.52	0.1786
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@1	24.73	22.33	0.1710
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@271	24.65	22.25	0.1679
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	135@67	22.92	20.52	0.1127
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@1	22.78	20.38	0.1091
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@271	22.87	20.47	0.1114
77	30	100	656000	3840	CP-OFDM QPSK	137@68	25.91	23.51	0.2244
77	30	100	656000	3840	CP-OFDM QPSK	1@1	25.87	23.47	0.2223
77	30	100	656000	3840	CP-OFDM QPSK	1@271	25.97	23.57	0.2275
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	135@67	27.59	25.19	0.3304
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@1	27.79	25.39	0.3459
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@271	27.7	25.3	0.3388
77	30	100	662000	3930	DFT-s-OFDM QPSK	135@67	27.6	25.2	0.3311
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@1	27.86	25.46	0.3516
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@271	27.81	25.41	0.3475
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	135@67	26.66	24.26	0.2667

NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@1	26.21	23.81	0.2404
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@271	26.75	24.35	0.2723
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	135@67	25.15	22.75	0.1884
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@1	24.63	22.23	0.1671
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@271	25.13	22.73	0.1875
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	135@67	23.19	20.79	0.1199
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@1	22.78	20.38	0.1091
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@271	23.38	20.98	0.1253
77	30	100	662000	3930	CP-OFDM QPSK	137@68	26.19	23.79	0.2393
77	30	100	662000	3930	CP-OFDM QPSK	1@1	25.8	23.4	0.2188
77	30	100	662000	3930	CP-OFDM QPSK	1@271	26.45	24.05	0.2541

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	0.0023	PASS	NV
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	-0.0024	PASS	LV
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	0.0016	PASS	HV
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	0.0009	PASS	-30°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	0.0029	PASS	-20°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	0.0022	PASS	-10°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	0.0013	PASS	0°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	-0.0017	PASS	10°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	0.0025	PASS	20°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	0.0021	PASS	30°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	-0.0014	PASS	40°C
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	0.0023	PASS	50°C

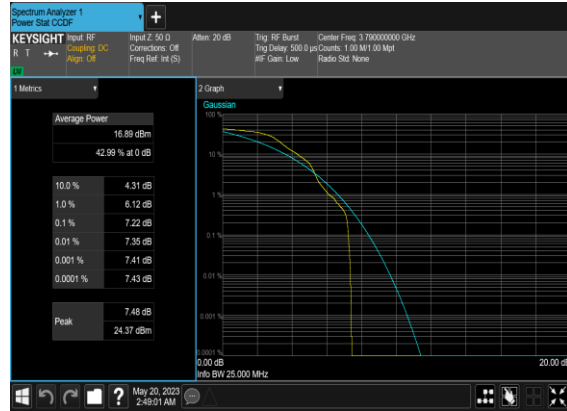
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	100	656000	3840.0	DFT-s-OFDM PI/2 BPSK	270@0	10.16	13	PASS
77	30	100	656000	3840.0	DFT-s-OFDM PI/2 BPSK	1@0	7.22	13	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	270@0	10.5	13	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	9.11	13	PASS

N77(100M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



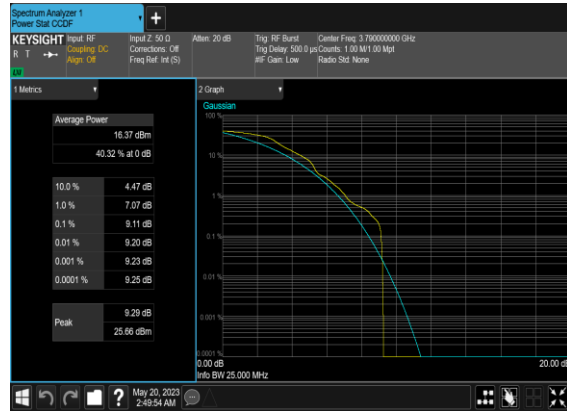
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N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

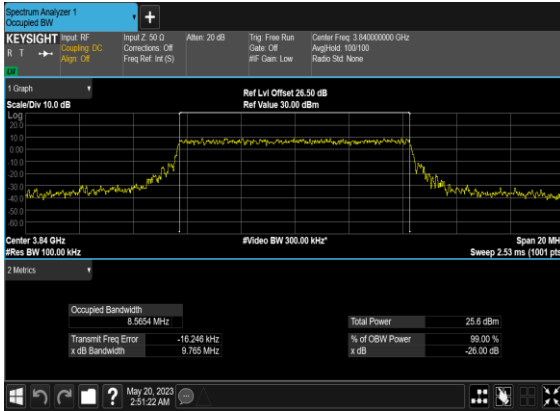


Occupied Bandwidth

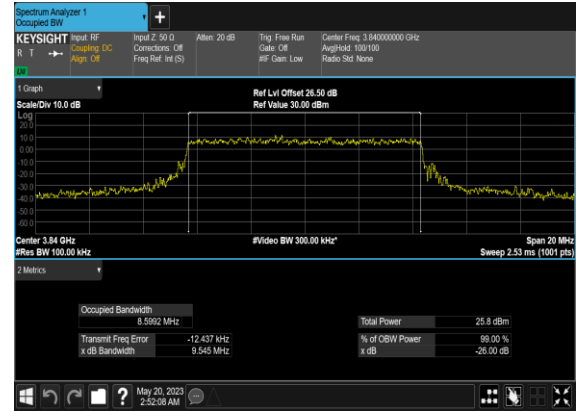
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	656000	3840.0	CP-OFDM QPSK	24@0	8.5654	9.765
77	30	10	656000	3840.0	CP-OFDM 16 QAM	24@0	8.5992	9.545
77	30	10	656000	3840.0	CP-OFDM 64 QAM	24@0	8.5851	9.297
77	30	10	656000	3840.0	CP-OFDM 256 QAM	24@0	8.5745	9.568
77	30	15	656000	3840.0	CP-OFDM QPSK	38@0	13.584	14.59
77	30	15	656000	3840.0	CP-OFDM 16 QAM	38@0	13.556	14.44
77	30	15	656000	3840.0	CP-OFDM 64 QAM	38@0	13.572	14.64
77	30	15	656000	3840.0	CP-OFDM 256 QAM	38@0	13.572	14.5
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.207	19.45
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.243	19.33
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.202	19.18
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.166	19.29
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.805	28.84
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.86	29.35
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.737	29.37
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.844	29.43
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.826	39.87
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.891	39.39
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.745	39.15
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.892	39.63
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.455	49.11
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.391	49.14
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.457	49.35
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.44	49.0
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.864	59.77
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.791	60.0

77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.889	59.83
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.937	59.69
77	30	70	656000	3840.0	CP-OFDM QPSK	189@0	67.651	69.81
77	30	70	656000	3840.0	CP-OFDM 16 QAM	189@0	67.503	69.71
77	30	70	656000	3840.0	CP-OFDM 64 QAM	189@0	67.517	69.85
77	30	70	656000	3840.0	CP-OFDM 256 QAM	189@0	67.52	69.73
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.512	80.1
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.779	80.2
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.588	79.94
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.435	80.1
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.523	90.43
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.385	90.26
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.609	90.33
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.377	90.19
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.689	100.7
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.497	100.5
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.421	100.5
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	97.501	100.6

N77(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N77(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



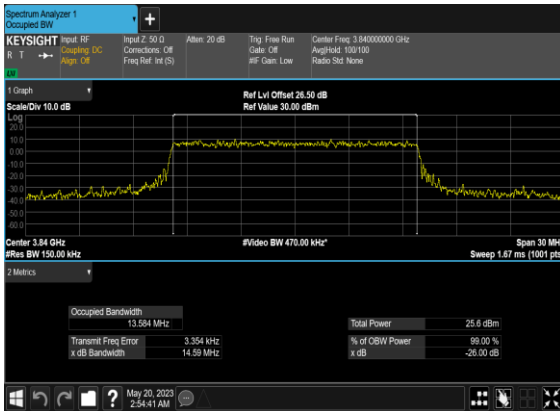
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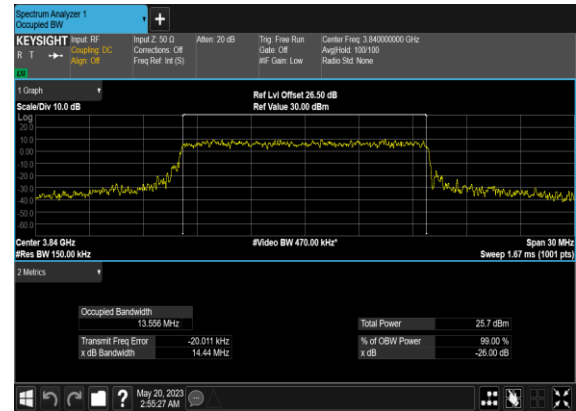
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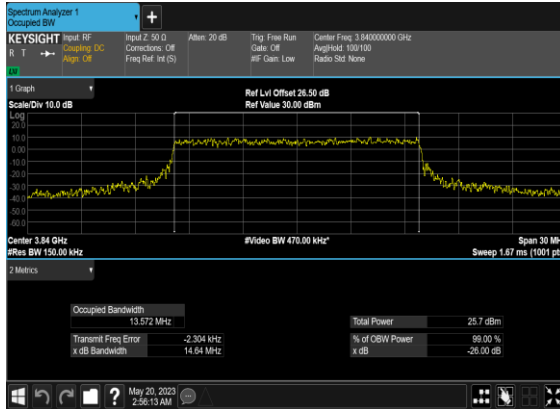
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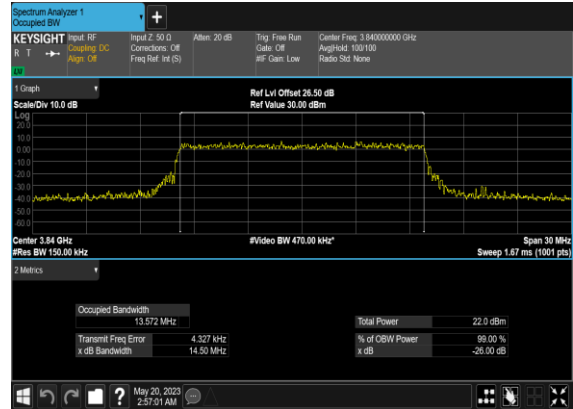
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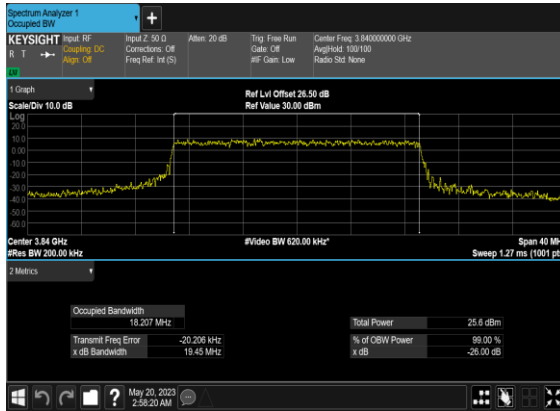
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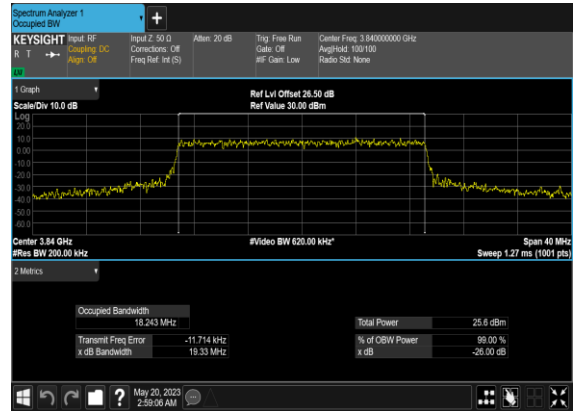
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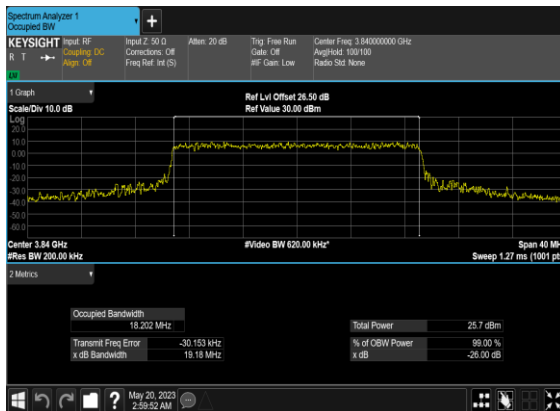
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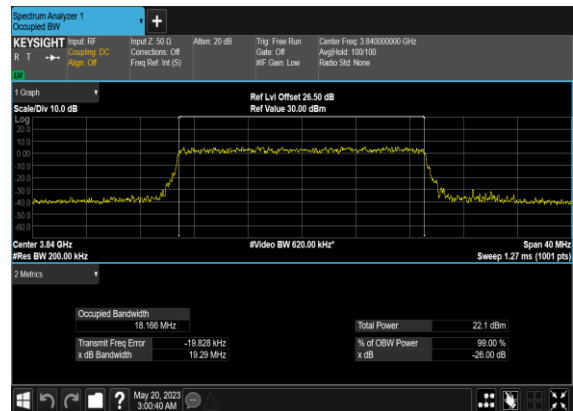
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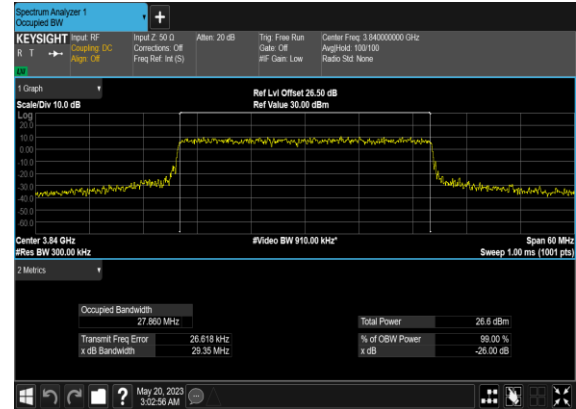
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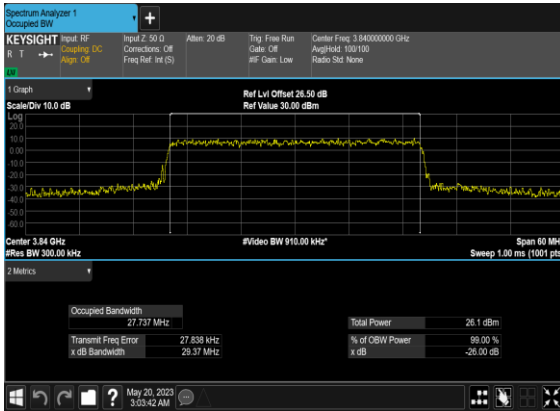
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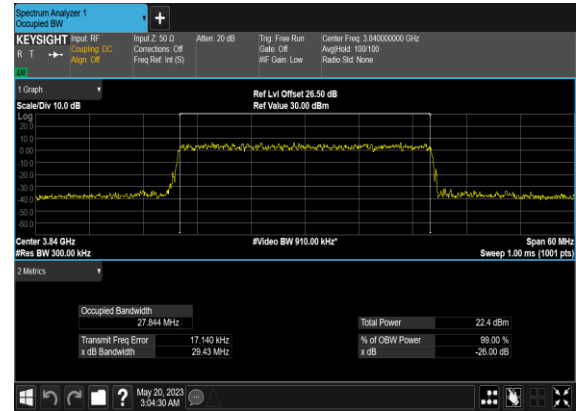
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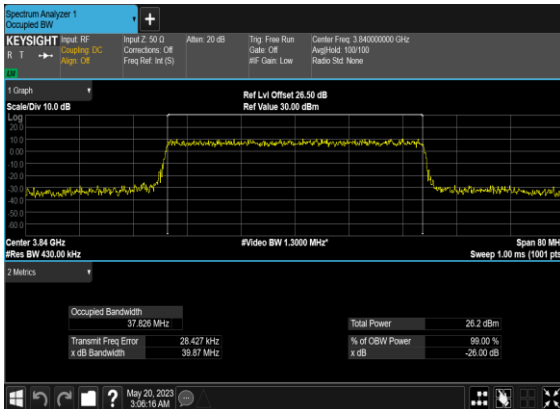
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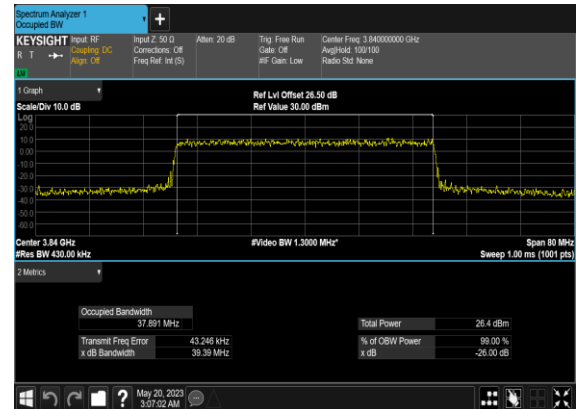
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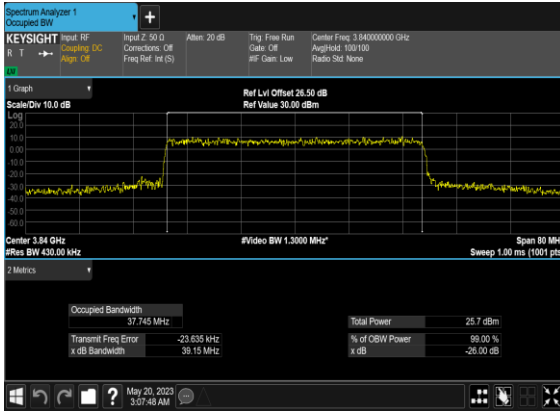
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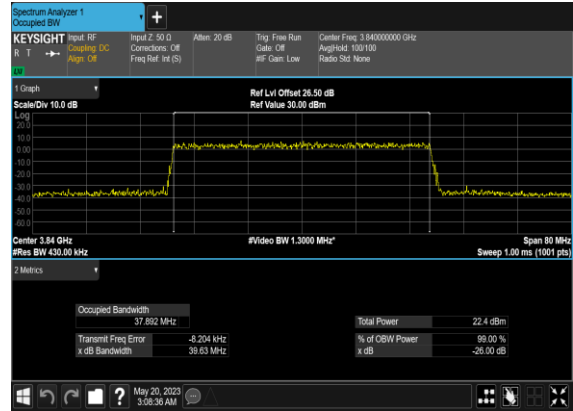
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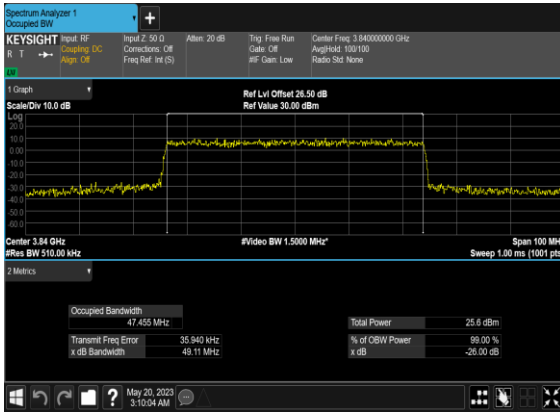
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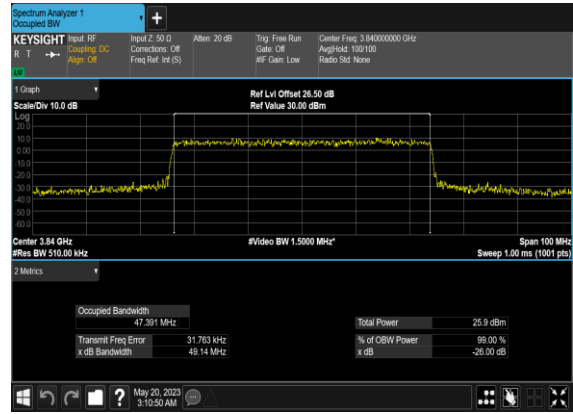
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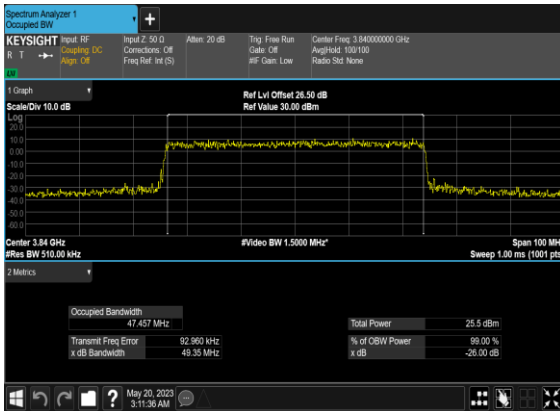
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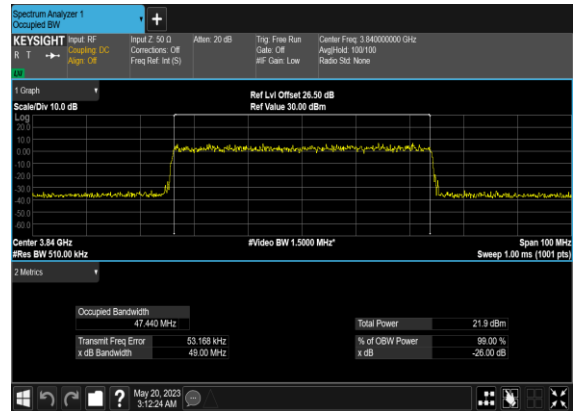
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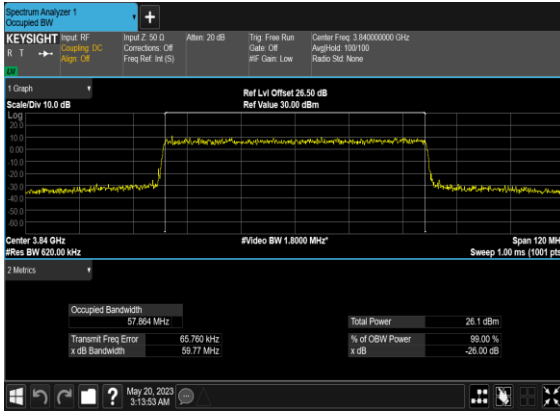
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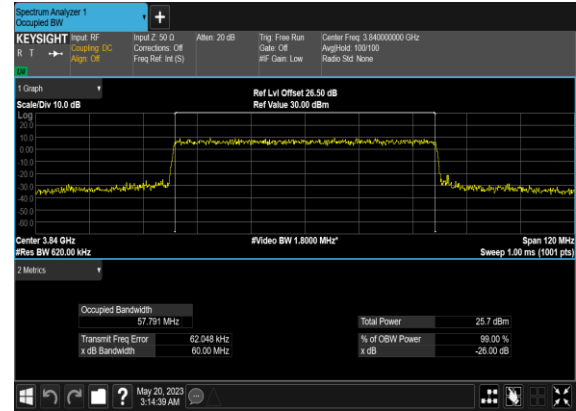
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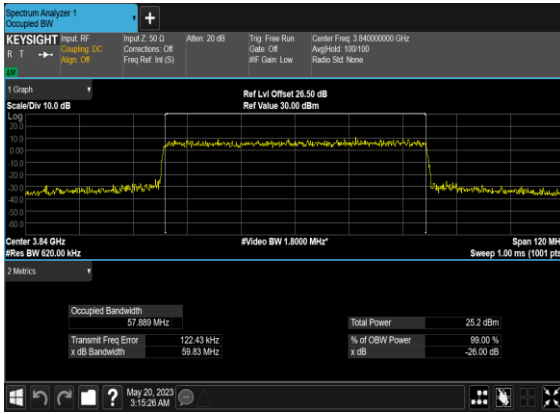
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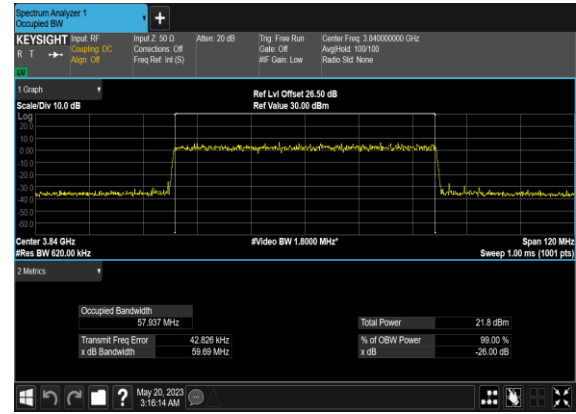
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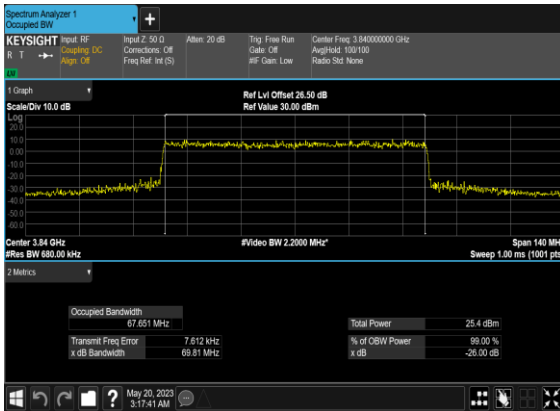
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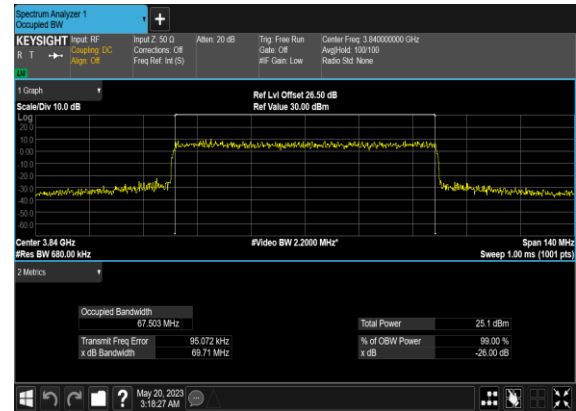
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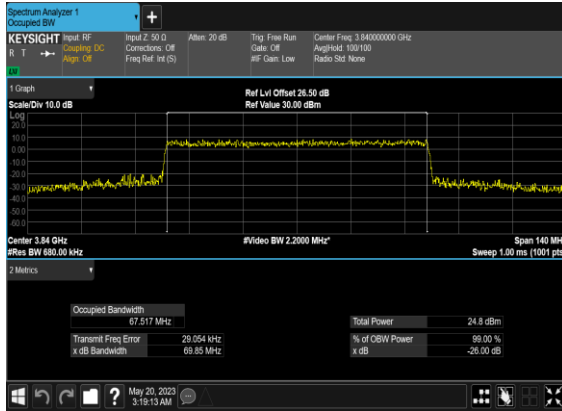
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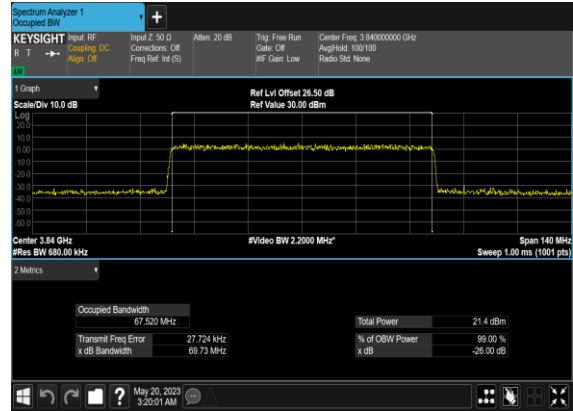
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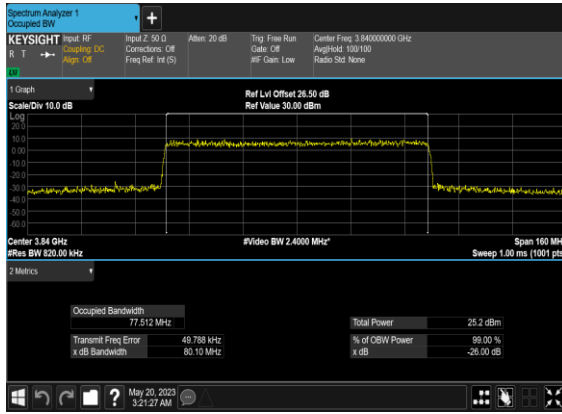
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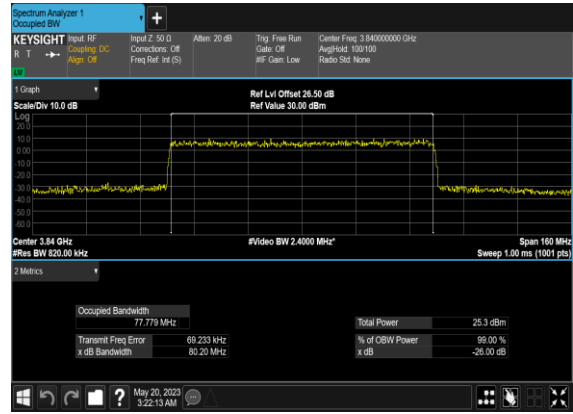
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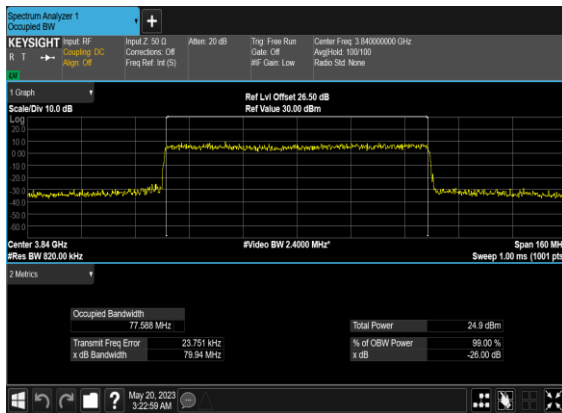
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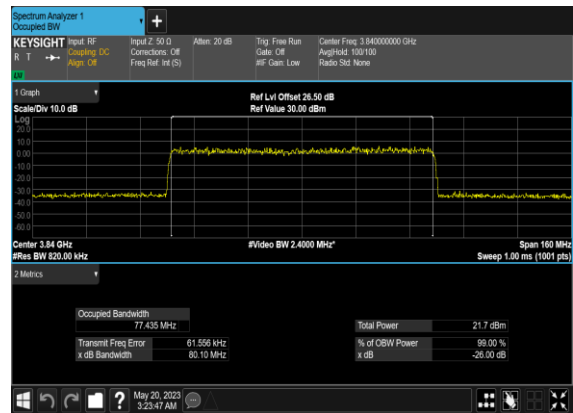
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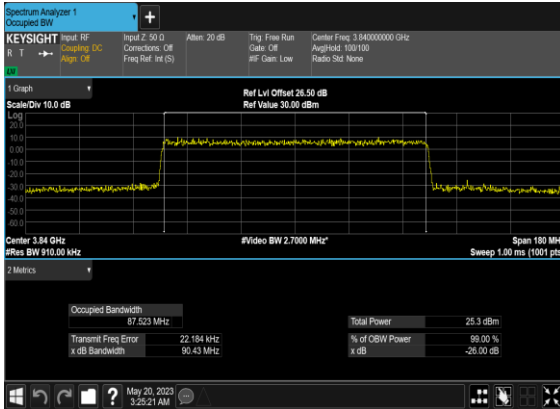
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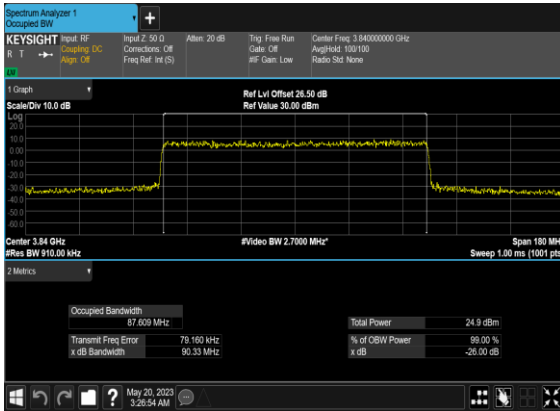
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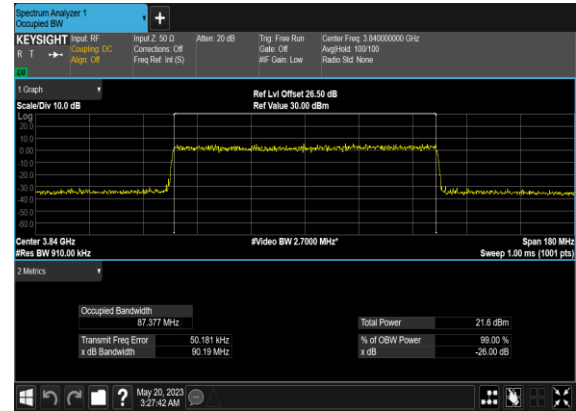
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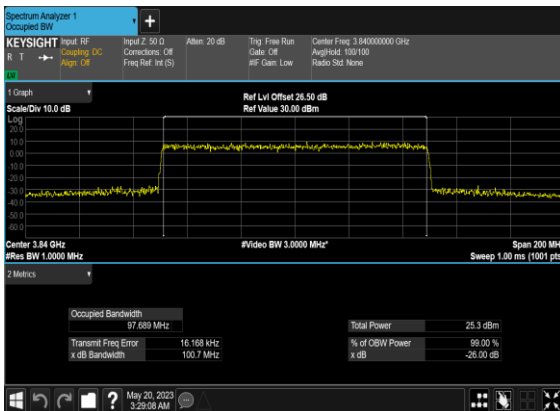
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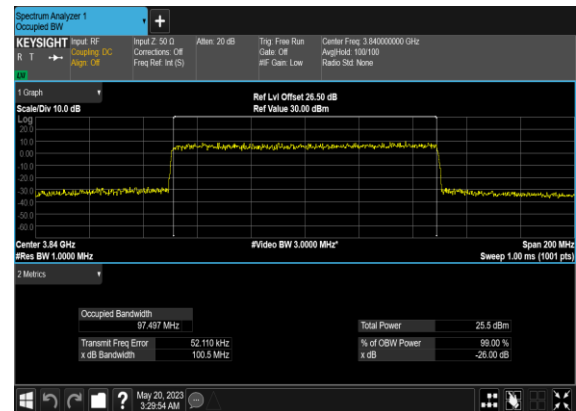
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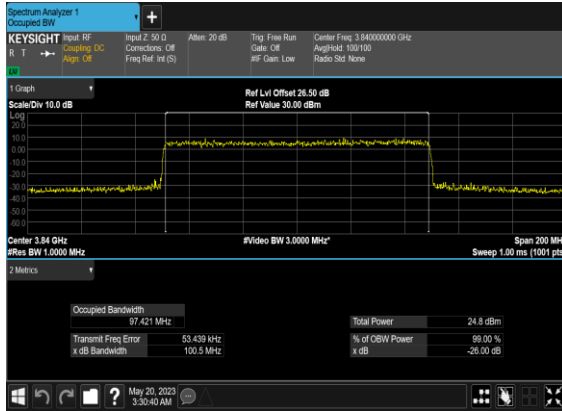
N77(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



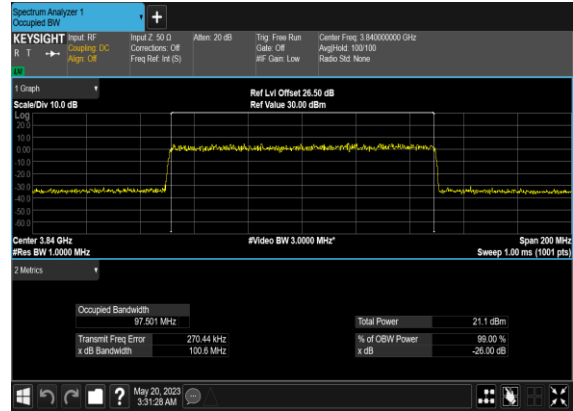
N77(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



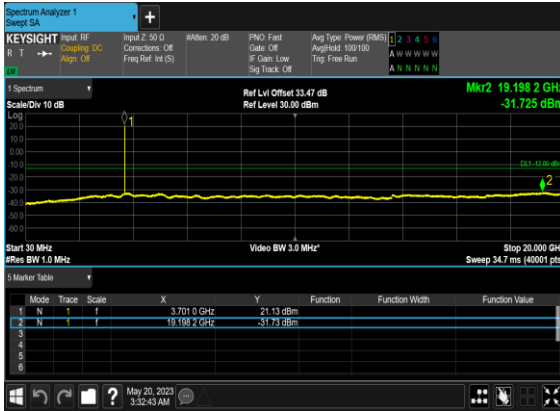
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS

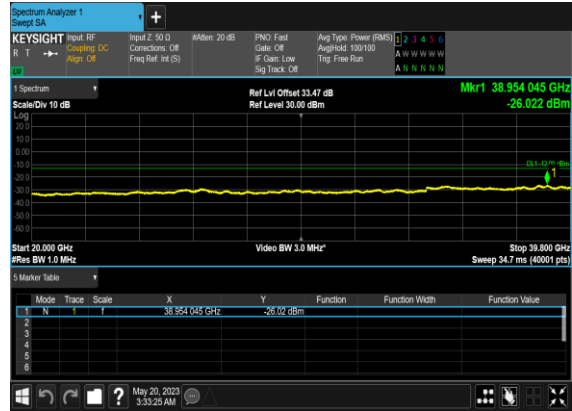
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	656000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	656000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	656000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

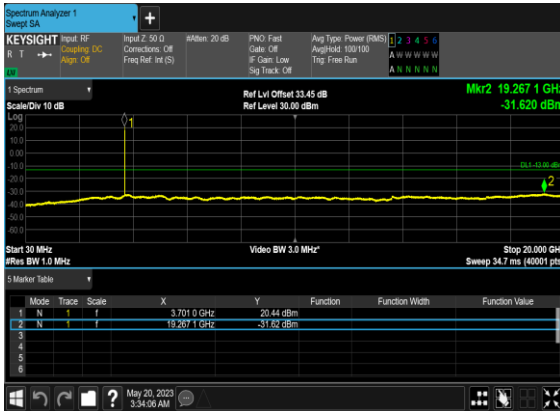
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



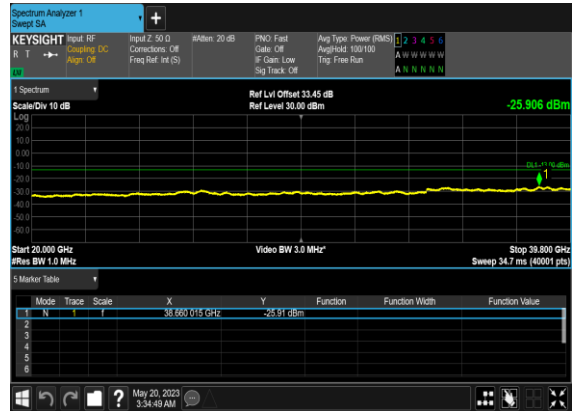
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



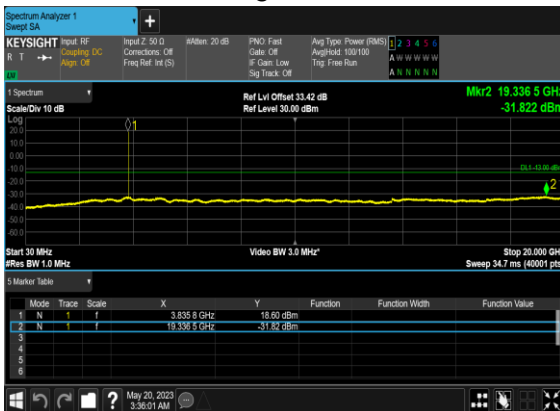
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



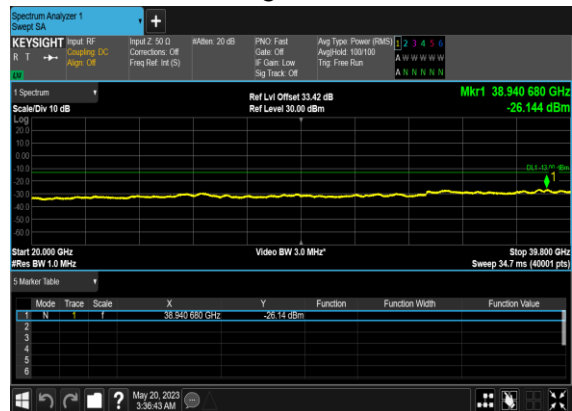
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



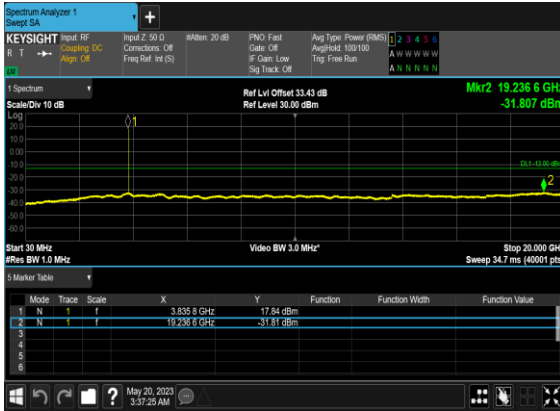
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



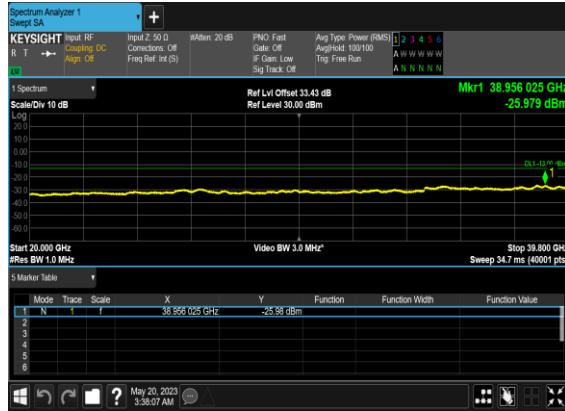
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



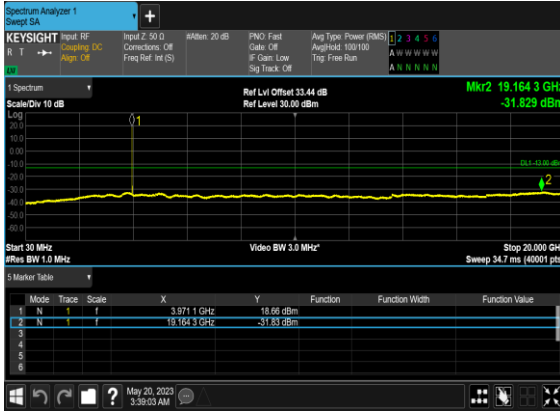
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



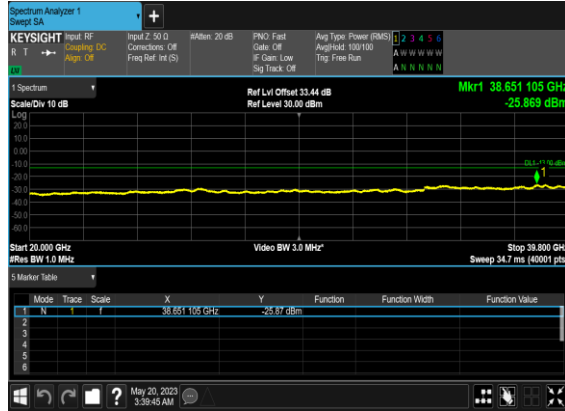
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



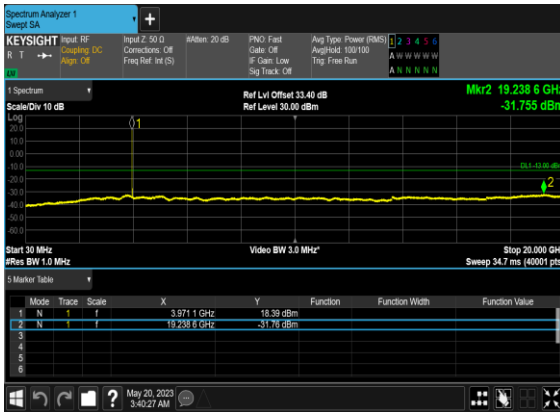
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



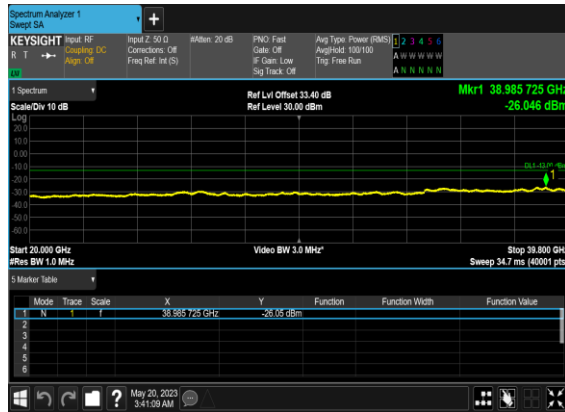
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



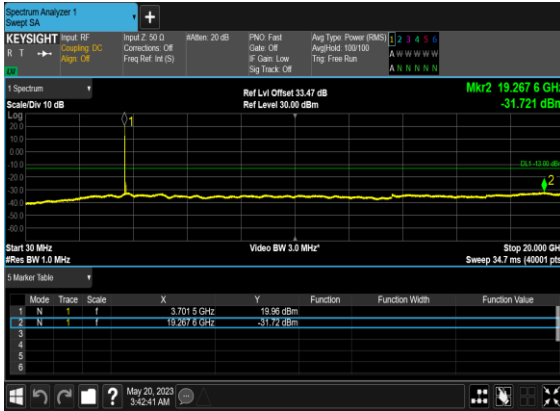
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



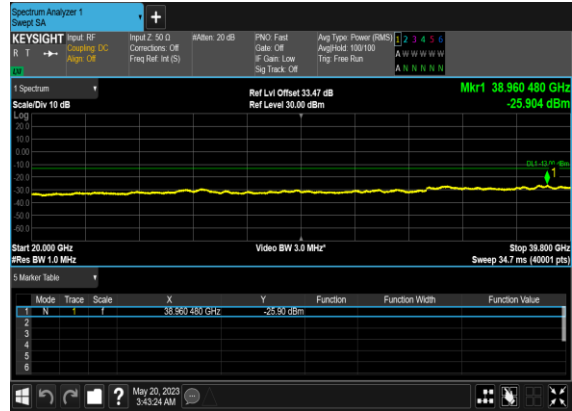
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



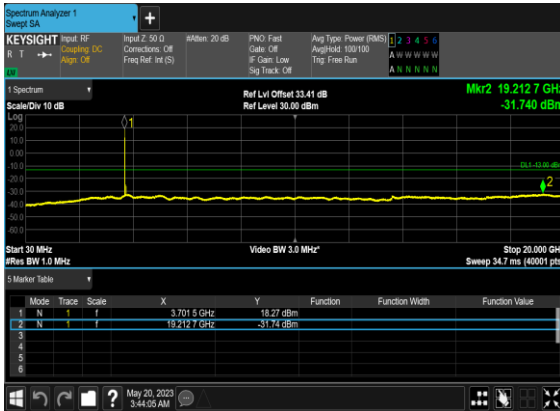
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



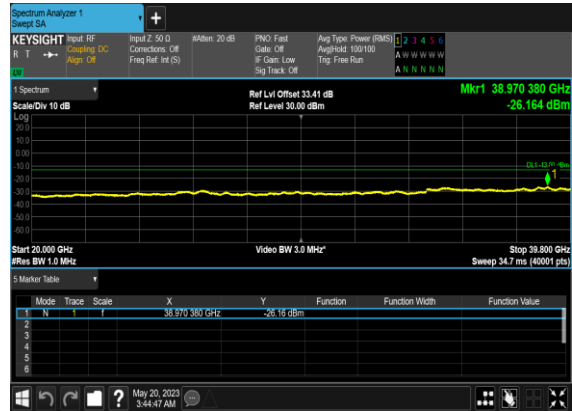
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



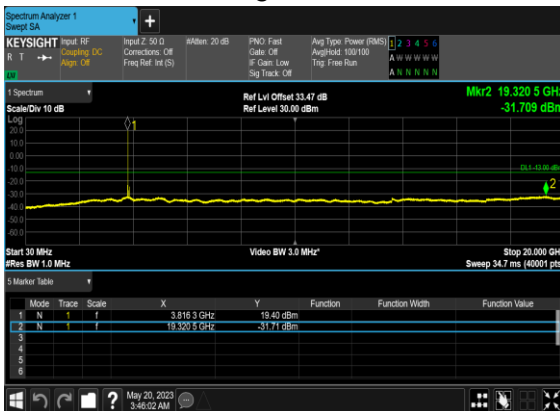
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



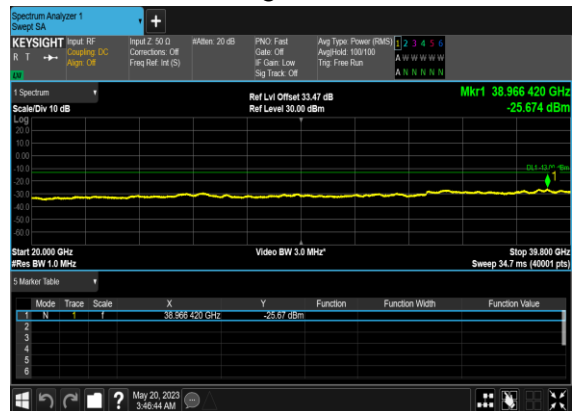
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



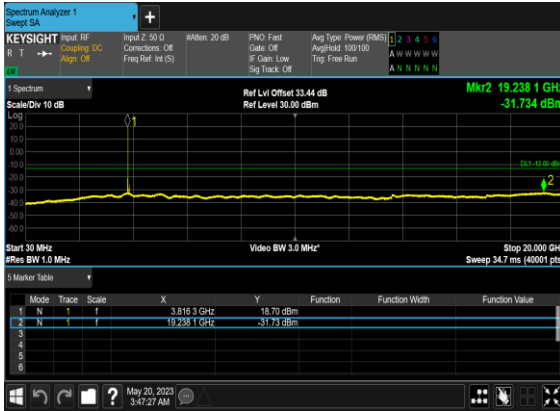
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



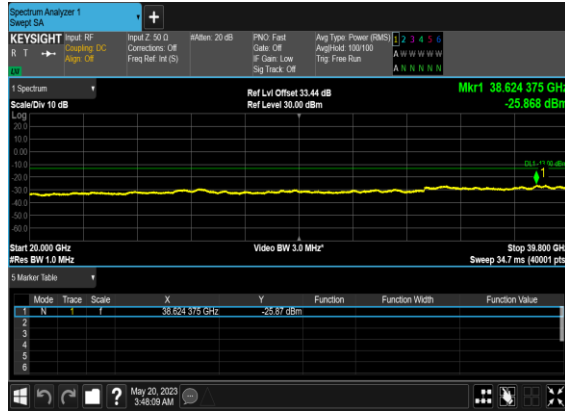
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



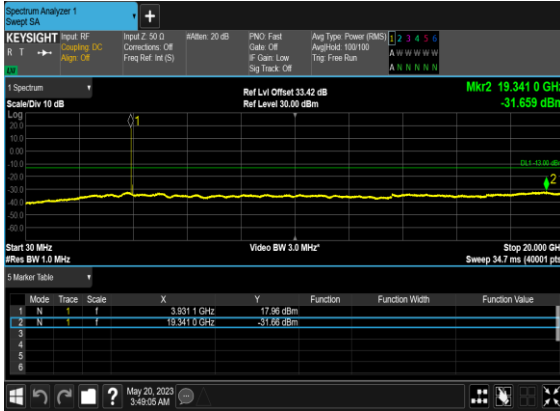
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



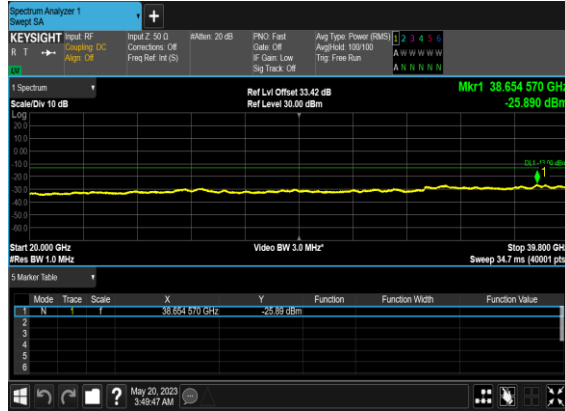
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



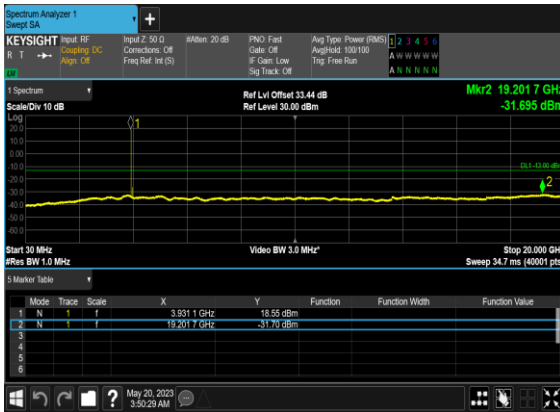
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



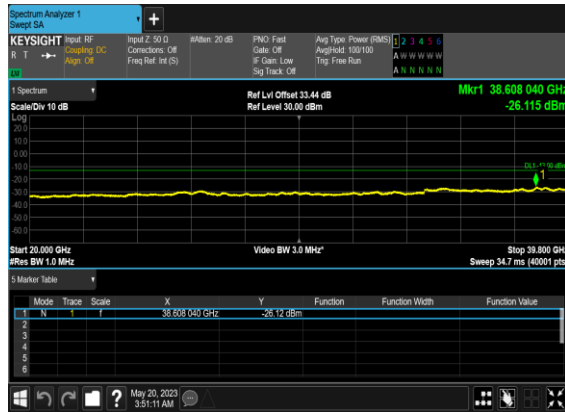
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



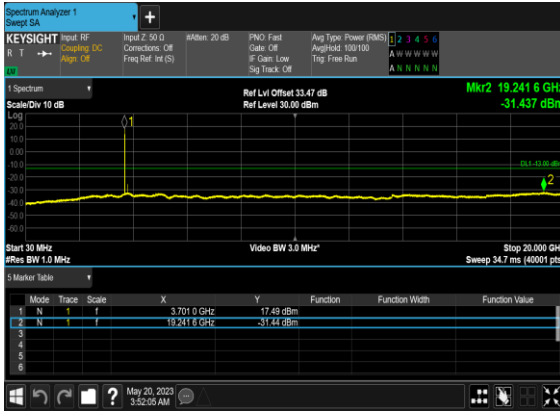
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



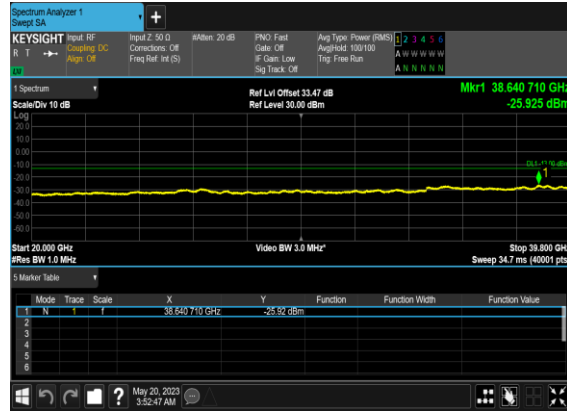
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



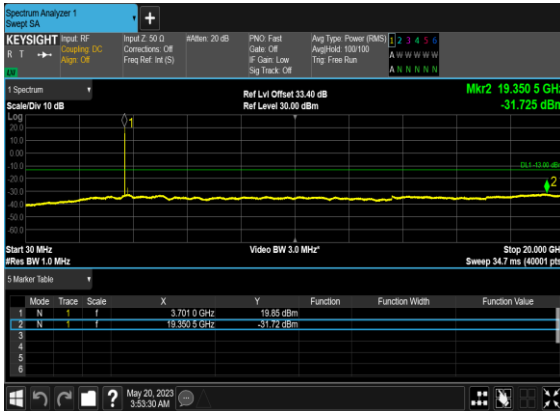
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



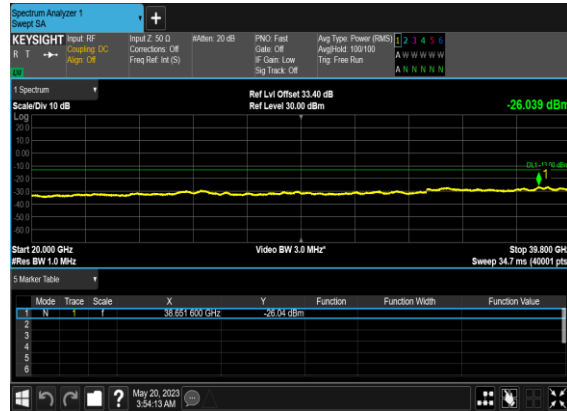
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



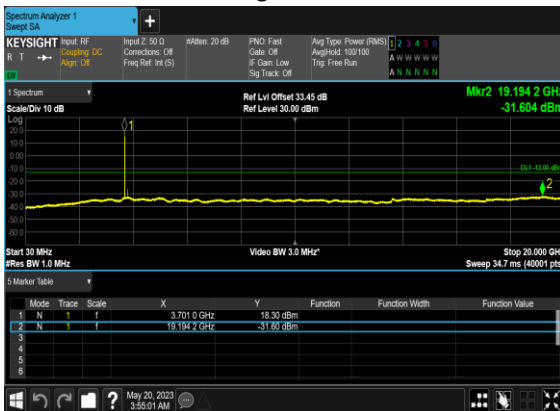
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



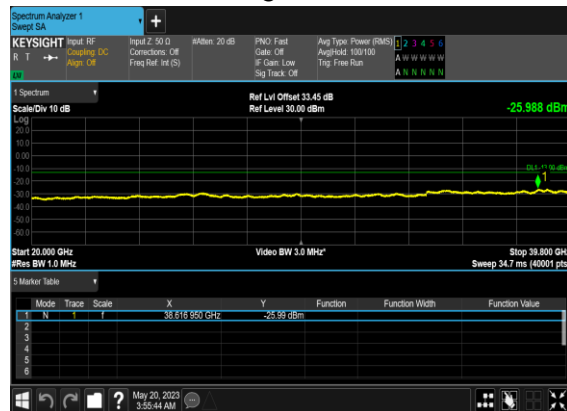
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



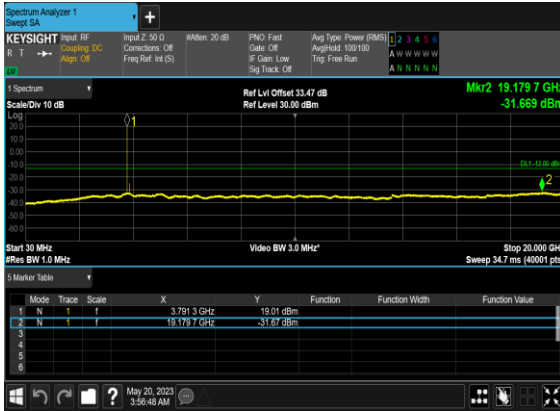
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



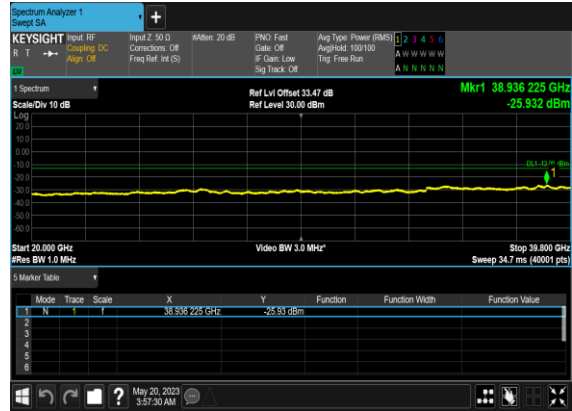
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



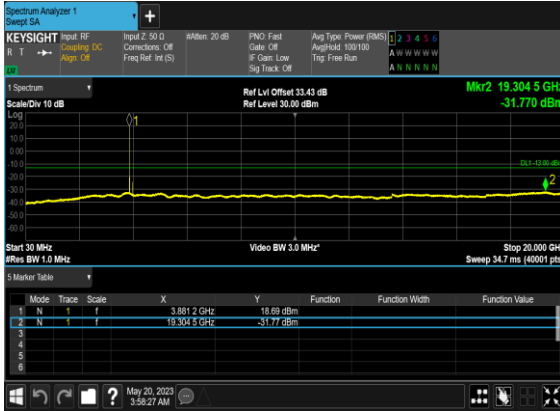
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



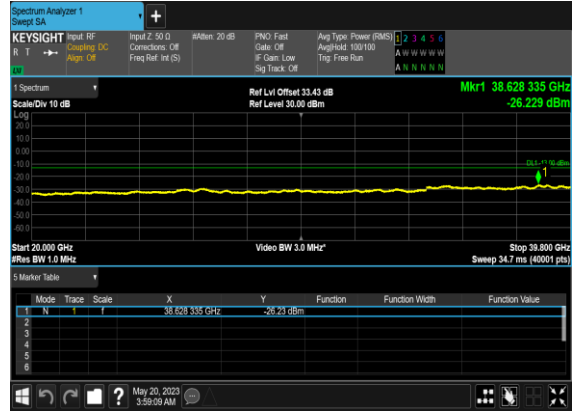
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



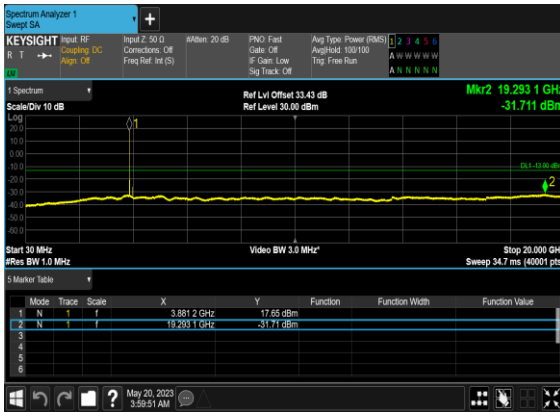
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



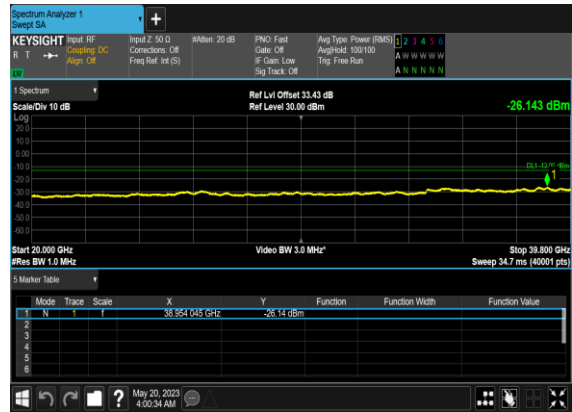
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



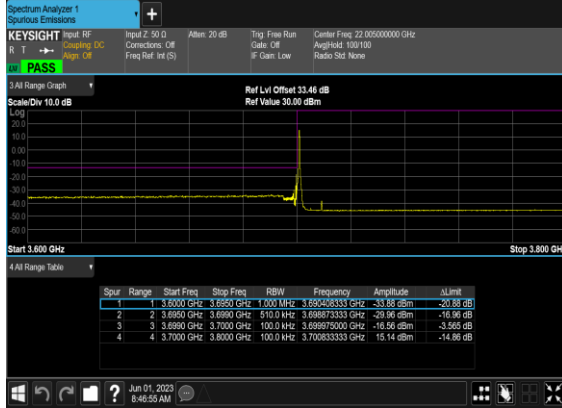
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



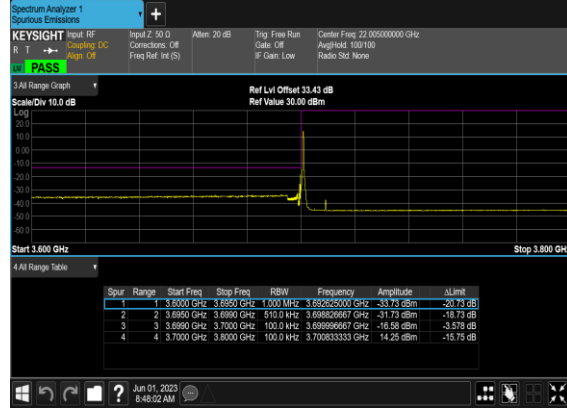
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@23	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@23	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	128@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	128@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@132	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@132	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	128@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	128@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	270@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@272	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@272	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	270@0	see graph	PASS

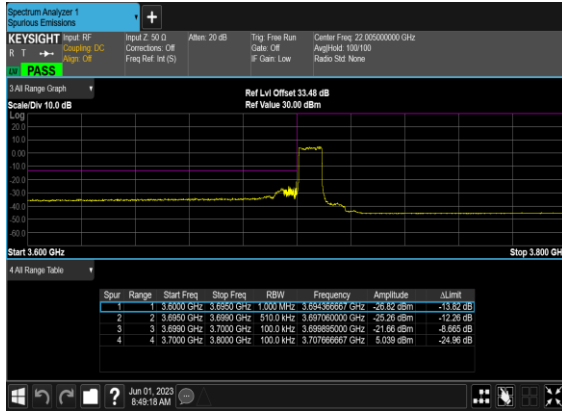
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



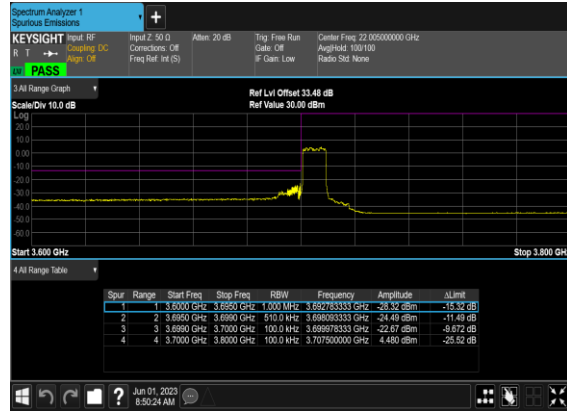
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



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

