



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2323-1
FCC ID : IHDT56AL8
STANDARD : 47 CFR Part 2, 27 Subpart O
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Apr. 18, 2022 ~ May 07, 2022

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.

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



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG340401K	Rev. 01	Initial issue of report	May 31, 2023



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 38.77 dB at 7410.00 MHz

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

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



1 General Description

1.1 Applicant

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	XT2323-1
FCC ID	IHDT56AL8
IMEI Code	Conducted: 350492020025032/350492020025040 Radiation: 350492020024498/350492020024506
HW Version	DVT2
SW Version	T2TV33.16
EUT Stage	Identical Prototype

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	n77/n78: 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
Antenna Gain	<Ant. 1> 5G NR n77: -6.5 dBi 5G NR n78: -6.5 dBi <Ant. 2> 5G NR n77: -2.5 dBi 5G NR n78: -2.5 dBi <Ant. 3> 5G NR n77: -2.4 dBi 5G NR n78: -2.4 dBi <Ant. 5> 5G NR n77: -2.4 dBi 5G NR n78: -2.4 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 3.
2. 5G NR n77/n78 support SA and NSA mode. The whole testing has assessed SA mode for n77 by referring to the higher conducted power for conducted test items.
3. The device supports HPUE mode for 5G NR n77/n78.
4. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
5. The EN-DC mode combination could be referred to the product spec.

1.5 Specification of Accessory

Accessories Information				
AC Adapter 1(US)	Brand Name	Motorola(Acbel)	Model Name	MC-331
AC Adapter 1(EU)	Brand Name	Motorola(Acbel)	Model Name	MC-332
AC Adapter 1(UK)	Brand Name	Motorola(Acbel)	Model Name	MC-333
AC Adapter 2(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-331
AC Adapter 2(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-332
AC Adapter 2(AU)	Brand Name	Motorola(Chenyang)	Model Name	MC-335
AC Adapter 2(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-336
AC Adapter 2(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-337
AC Adapter 3(US)	Brand Name	Motorola(Salcomp)	Model Name	MC-331
AC Adapter 3(EU)	Brand Name	Motorola(Salcomp)	Model Name	MC-332
AC Adapter 3(UK)	Brand Name	Motorola(Salcomp)	Model Name	MC-333
AC Adapter 3(IN)	Brand Name	Motorola(Salcomp)	Model Name	MC-334
AC Adapter 3(AU)	Brand Name	Motorola(Salcomp)	Model Name	MC-335
AC Adapter 3(AR)	Brand Name	Motorola(Salcomp)	Model Name	MC-336
AC Adapter 3(BR)	Brand Name	Motorola(Salcomp)	Model Name	MC-337
AC Adapter 3(CHILE)	Brand Name	Motorola(Salcomp)	Model Name	MC-339
AC Adapter 3(KR)	Brand Name	Motorola(Salcomp)	Model Name	MC-330
AC Adapter 4(BR)	Brand Name	Motorola(Cliptech)	Model Name	MC-337
Base Battery	Brand Name	Motorola (ATL)	Model Name	PM29
Flip Battery	Brand Name	Motorola (ATL)	Model Name	PV11
USB Cable 1	Brand Name	Motorola(Saibao)	Model Name	SC18D22297
USB Cable 2	Brand Name	Motorola(Cabletech)	Model Name	SC18D22298
USB Cable 3	Brand Name	Motorola(Luxshare)	Model Name	SC18D22299

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 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	3705.00 ~ 3975.00	0.2723	8M57G7D	0.2280	8M58W7D
15	3705.52 ~ 3972.48	0.2786	13M6G7D	0.2213	13M6W7D
20	3710.01 ~ 3969.99	0.2723	18M2G7D	0.2259	18M3W7D
30	3715.02 ~ 3964.98	0.2786	27M8G7D	0.2249	27M9W7D
40	3720.00 ~ 3960.00	0.2805	37M9G7D	0.2270	37M8W7D
50	3725.01 ~ 3954.99	0.2767	47M5G7D	0.2259	47M5W7D
60	3730.02 ~ 3949.98	0.2642	57M9G7D	0.2218	57M9W7D
70	3735.00 ~ 3945.00	0.2624	67M6G7D	0.2198	67M6W7D
80	3740.01 ~ 3939.99	0.2570	77M5G7D	0.2234	77M6W7D
90	3745.02 ~ 3934.98	0.2594	87M6G7D	0.2223	87M5W7D
100	3750.00 ~ 3930.00	0.2812	97M6G7D	0.2483	97M7W7D

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	3705.00 ~ 3795.00	0.2472	8M57G7D	0.2080	8M58W7D
15	3707.52 ~ 3792.48	0.2570	13M6G7D	0.2084	13M6W7D
20	3710.01 ~ 3789.99	0.2541	18M2G7D	0.2133	18M3W7D
30	3715.02 ~ 3784.98	0.2624	27M8G7D	0.2099	27M9W7D
40	3720.00 ~ 3780.00	0.2679	37M9G7D	0.2080	37M8W7D
50	3725.01 ~ 3774.99	0.2443	47M5G7D	0.2099	47M5W7D
60	3730.02 ~ 3769.98	0.2388	57M9G7D	0.2109	57M9W7D
70	3735.00 ~ 3765.00	0.2443	67M6G7D	0.2109	67M6W7D
80	3740.01 ~ 3759.99	0.2393	77M5G7D	0.2148	77M6W7D
90	3745.02 ~ 3754.98	0.2355	87M6G7D	0.2148	87M5W7D
100	3750.00 ~ 3750.00	0.2685	97M6G7D	0.2228	97M7W7D

Note:

- 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.
- 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

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:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items 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.

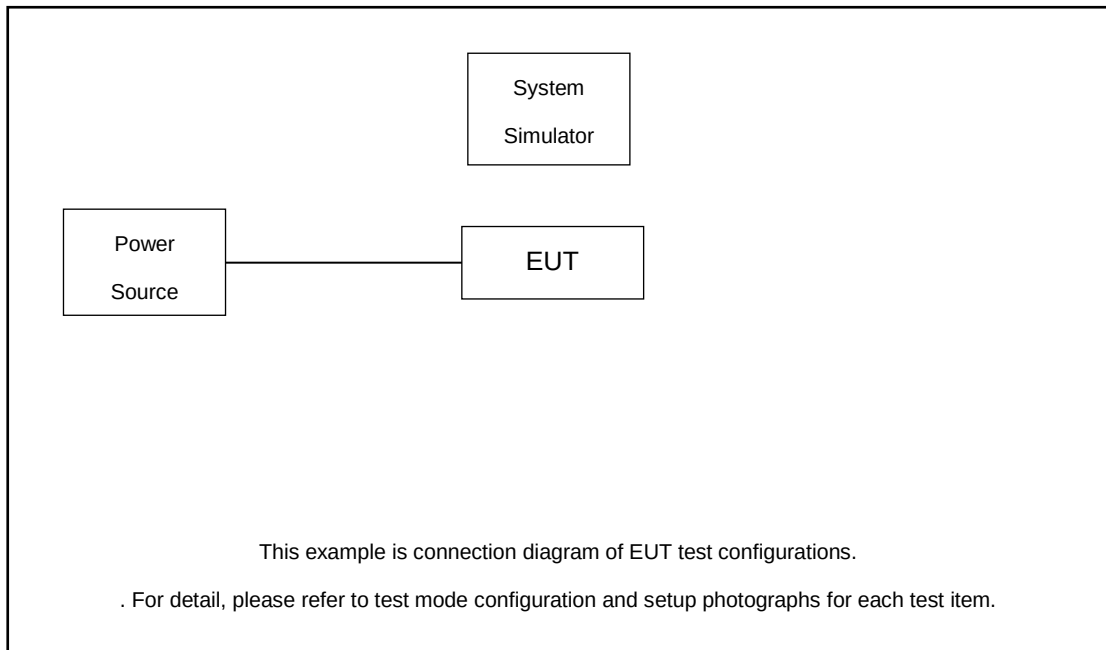
The worst cases (Z plane with flip open) were recorded in this report.

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	30	40	50	60	70	80~90	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	v
	n78	v	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	
26dB and 99% Bandwidth	n77	v	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	
E.I.R.P	n77	v	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	v
Radiated Spurious Emission	n77	Worst Case																		v	v	v
	n78	Worst Case																			v	
Note	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. Frequency Stability : Normal Voltage = 3.91V; Low Voltage =3.4V; High Voltage =4.5V.																					

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 2.99 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

=2.99 + 10 = 12.99 (dB)



2.5 Frequency List of Low/Middle/High Channels

5G n77 (30kHz) 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(30kHz) 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

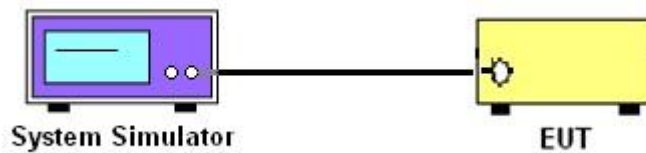
3 Conducted Test Items

3.1 Measuring Instruments

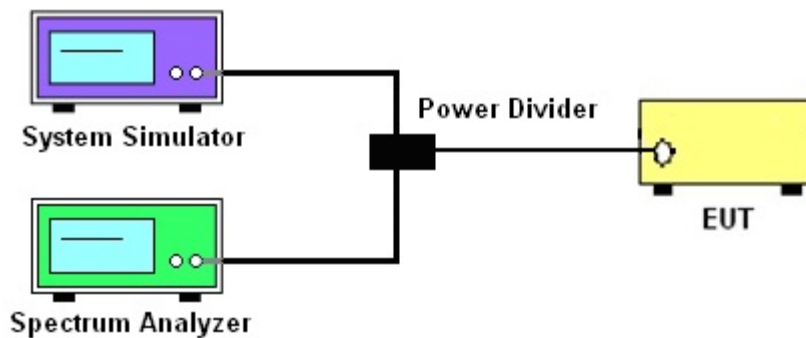
See list of measuring instruments of this test report.

3.2 Test Setup

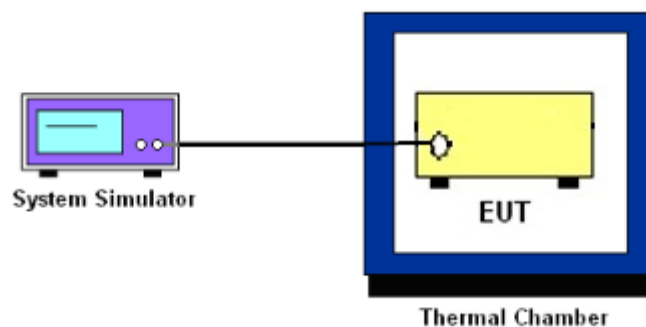
3.2.1 Conducted Output Power



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:

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

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

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

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.

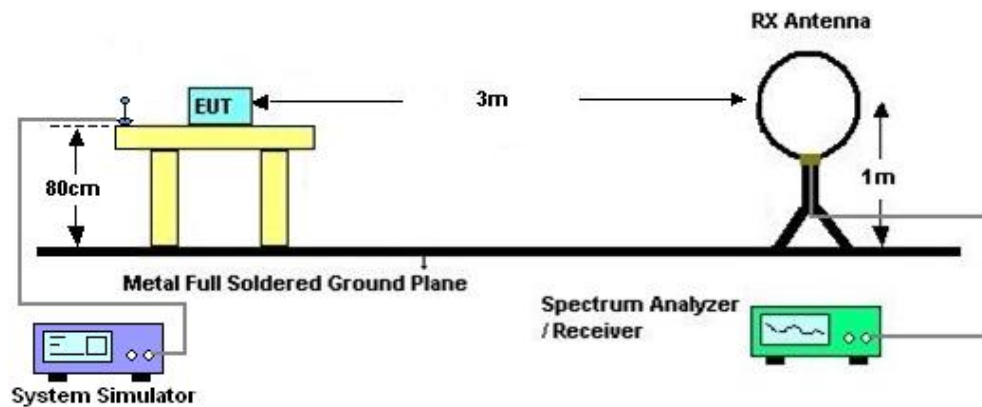
4 Radiated Test Items

4.1 Measuring Instruments

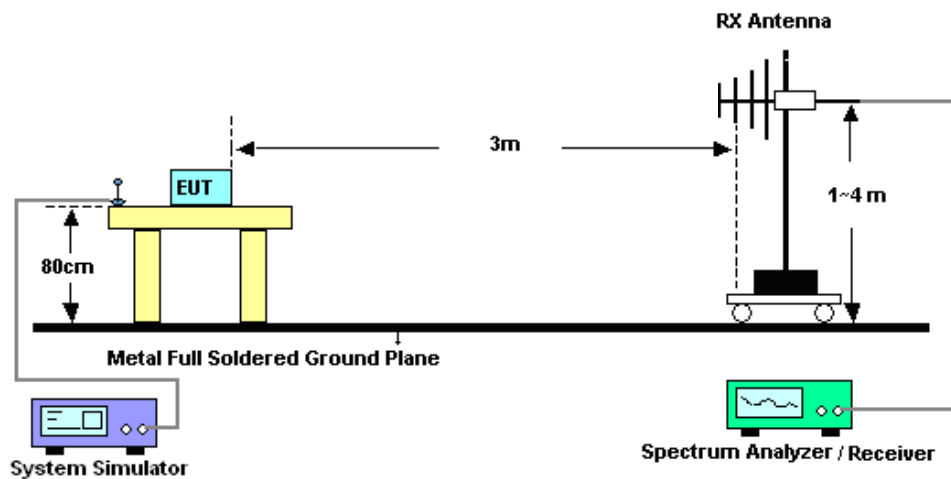
See list of measuring instruments of this test report.

4.2 Test Setup

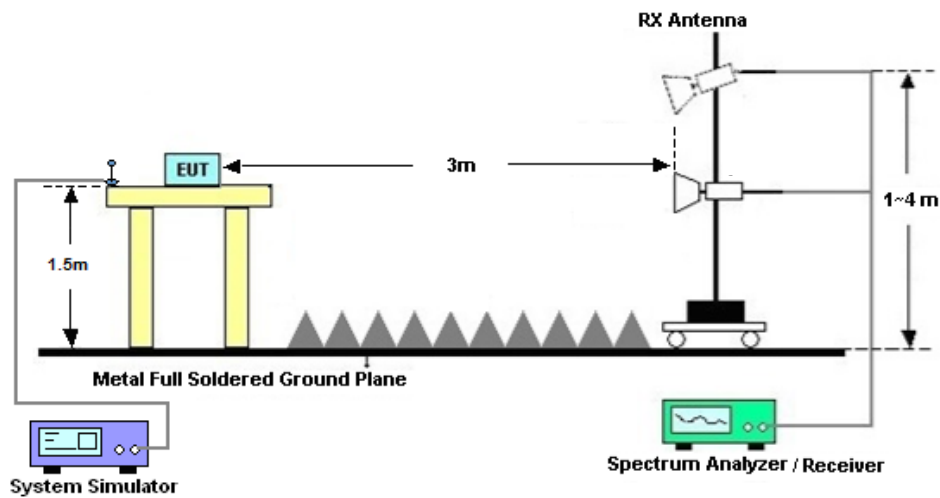
4.2.1 For radiated test below 30MHz



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)

$= P(W) - [43 + 10\log(P)] \text{ (dB)}$

$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$

$= -13\text{dBm}.$



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. 12, 2022	Apr. 18, 2023~ May 07, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Apr. 18, 2023~ May 07, 2023	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 15, 2022	Apr. 18, 2023~ May 07, 2023	Jul. 14, 2023	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz~44G, MAX 30dB	Oct. 12, 2022	May 06, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz~1GHz	May 24, 2022	May 06, 2023	May 23, 2023	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	May 06, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 16, 2022	May 06, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	May 06, 2023	Jan. 07, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz~1GHz	May 24, 2022	May 06, 2023	May 23, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2023	May 06, 2023	Jan. 04, 2024	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz~18Ghz	Oct. 12, 2022	May 06, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz~18Ghz	Oct. 12, 2022	May 06, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	May 06, 2023	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	May 06, 2023	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	May 06, 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

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

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

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

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

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



Appendix A. Test Results of Conducted Test

FR1 N77(Ant3)

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

NR Band	SCS	Band Width	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	26.72	24.32	0.2704
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	26.56	24.16	0.2606
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	25.98	23.58	0.2280
77	30	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.74	24.34	0.2716
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@1	26.57	24.17	0.2612
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.94	23.54	0.2259
77	30	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@1	26.75	24.35	0.2723
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@1	26.58	24.18	0.2618
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@1	25.92	23.52	0.2249
77	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@1	26.76	24.36	0.2729
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	26.54	24.14	0.2594
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	25.82	23.42	0.2198
77	30	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.77	24.37	0.2735
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@1	26.54	24.14	0.2594
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.84	23.44	0.2208
77	30	15	664832	3972.48	DFT-s-OFDM PI/2 BPSK	1@1	26.85	24.45	0.2786
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@1	26.56	24.16	0.2606
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@1	25.85	23.45	0.2213
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	26.74	24.34	0.2716
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	26.53	24.13	0.2588
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	25.92	23.52	0.2249
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.75	24.35	0.2723
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@1	26.59	24.19	0.2624
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.94	23.54	0.2259
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@1	26.59	24.19	0.2624
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	26.32	23.92	0.2466
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	25.82	23.42	0.2198
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	26.85	24.45	0.2786

77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	26.53	24.13	0.2588
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	25.92	23.52	0.2249
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.78	24.38	0.2742
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@1	26.53	24.13	0.2588
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.89	23.49	0.2234
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@1	26.8	24.4	0.2754
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	26.51	24.11	0.2576
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	25.91	23.51	0.2244
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	26.88	24.48	0.2805
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	26.52	24.12	0.2582
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	25.94	23.54	0.2259
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.87	24.47	0.2799
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@1	26.53	24.13	0.2588
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.92	23.52	0.2249
77	30	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@1	26.85	24.45	0.2786
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@1	26.56	24.16	0.2606
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	25.96	23.56	0.2270
77	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	26.61	24.21	0.2636
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	26.52	24.12	0.2582
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	25.94	23.54	0.2259
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.64	24.24	0.2655
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@1	25.43	23.03	0.2009
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.81	23.41	0.2193
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@1	26.82	24.42	0.2767
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	26.49	24.09	0.2564
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	25.87	23.47	0.2223
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	26.58	24.18	0.2618
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	26.43	24.03	0.2529
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	25.86	23.46	0.2218
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.59	24.19	0.2624
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@1	26.34	23.94	0.2477
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.79	23.39	0.2183
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	1@1	26.62	24.22	0.2642
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	26.51	24.11	0.2576

77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	25.82	23.42	0.2198
77	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@1	26.59	24.19	0.2624
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	26.41	24.01	0.2518
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	25.82	23.42	0.2198
77	30	70	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.5	24.1	0.2570
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@1	26.43	24.03	0.2529
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.81	23.41	0.2193
77	30	70	663000	3945	DFT-s-OFDM PI/2 BPSK	1@1	26.51	24.11	0.2576
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@1	26.46	24.06	0.2547
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@1	25.82	23.42	0.2198
77	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	26.5	24.1	0.2570
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	26.42	24.02	0.2523
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	25.73	23.33	0.2153
77	30	80	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.43	24.03	0.2529
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@1	26.46	24.06	0.2547
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.82	23.42	0.2198
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	1@1	26.34	23.94	0.2477
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	26.32	23.92	0.2466
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	25.89	23.49	0.2234
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	26.54	24.14	0.2594
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	26.43	24.03	0.2529
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	25.87	23.47	0.2223
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.41	24.01	0.2518
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@1	26.39	23.99	0.2506
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.82	23.42	0.2198
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	1@1	26.35	23.95	0.2483
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@1	26.42	24.02	0.2523
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	25.87	23.47	0.2223
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@ 67	26.74	24.34	0.2716
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.56	24.16	0.2606
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@27 1	26.6	24.2	0.2630
77	30	100	650000	3750	DFT-s-OFDM QPSK	135@ 67	26.74	24.34	0.2716
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	26.56	24.16	0.2606
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@27 1	26.62	24.22	0.2642

77	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@ 67	26.35	23.95	0.2483
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.98	23.58	0.2280
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@27 1	26.13	23.73	0.2360
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@ 67	24.82	22.42	0.1746
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	24.49	22.09	0.1618
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@27 1	24.52	22.12	0.1629
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@ 67	22.84	20.44	0.1107
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	22.59	20.19	0.1045
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@27 1	22.62	20.22	0.1052
77	30	100	650000	3750	CP-OFDM QPSK	1@1	25.64	23.24	0.2109
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	135@ 67	26.76	24.36	0.2729
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.47	24.07	0.2553
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@27 1	26.57	24.17	0.2612
77	30	100	656000	3840	DFT-s-OFDM QPSK	135@ 67	26.68	24.28	0.2679
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@1	26.48	24.08	0.2559
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@27 1	26.52	24.12	0.2582
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	135@ 67	26.28	23.88	0.2443
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.97	23.57	0.2275
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@27 1	26.08	23.68	0.2333
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	135@ 67	24.78	22.38	0.1730
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@1	24.38	21.98	0.1578
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@27 1	24.44	22.04	0.1600
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	135@ 67	22.8	20.4	0.1096
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@1	22.36	19.96	0.0991
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@27 1	22.54	20.14	0.1033
77	30	100	656000	3840	CP-OFDM QPSK	1@1	25.54	23.14	0.2061
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	135@ 67	26.65	24.25	0.2661
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@1	26.44	24.04	0.2535
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@27 1	26.89	24.49	0.2812
77	30	100	662000	3930	DFT-s-OFDM QPSK	135@ 67	26.64	24.24	0.2655
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@1	26.38	23.98	0.2500
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@27 1	26.74	24.34	0.2716
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	135@ 67	26.26	23.86	0.2432
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@1	26	23.6	0.2291

77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@27 1	26.28	23.88	0.2443
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	135@ 67	24.78	22.38	0.1730
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@1	24.27	21.87	0.1538
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@27 1	24.67	22.27	0.1687
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	135@ 67	22.76	20.36	0.1086
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@1	22.5	20.1	0.1023
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@27 1	22.78	20.38	0.1091
77	30	100	662000	3930	CP-OFDM QPSK	1@1	25.42	23.02	0.2004

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	656000	3840.0	DFT-s-OFDM QPS	50@0	-0.00284	PASS	NV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00310	PASS	LV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00174	PASS	HV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	-0.00295	PASS	-30℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00241	PASS	-20℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00233	PASS	-10℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	-0.00285	PASS	0℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00241	PASS	10℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00251	PASS	20℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00399	PASS	30℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00251	PASS	40℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00296	PASS	50℃

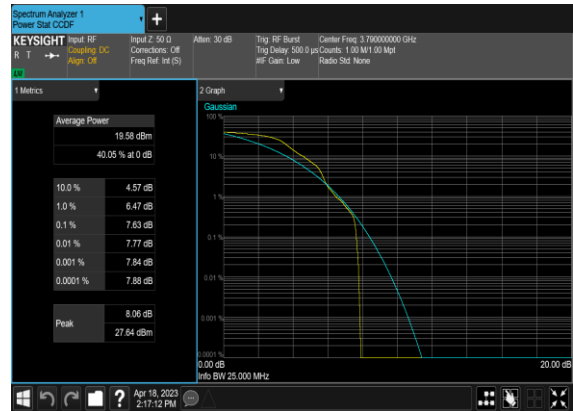
Peak to Average Ratio

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	10.12	13	PASS
77	30	100	656000	3840.0	DFT-s-OFDM PI/2 BPSK	1@0	7.63	13	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	270@0	10.47	13	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	9.59	13	PASS

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



N77(100M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

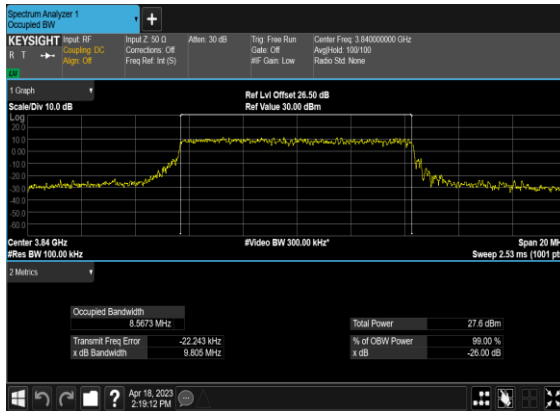


Occupied Bandwidth

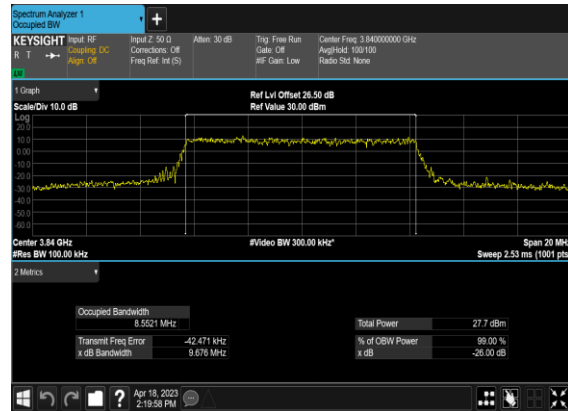
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	656000	3840.0	CP-OFDM QPSK	24@0	8.5673	9.805
77	30	10	656000	3840.0	CP-OFDM 16 QAM	24@0	8.5521	9.676
77	30	10	656000	3840.0	CP-OFDM 64 QAM	24@0	8.5771	9.476
77	30	10	656000	3840.0	CP-OFDM 256 QAM	24@0	8.5657	9.561
77	30	15	656000	3840.0	CP-OFDM QPSK	38@0	13.569	14.71
77	30	15	656000	3840.0	CP-OFDM 16 QAM	38@0	13.55	14.82
77	30	15	656000	3840.0	CP-OFDM 64 QAM	38@0	13.569	14.8
77	30	15	656000	3840.0	CP-OFDM 256 QAM	38@0	13.54	14.81
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.2	19.1
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.275	19.62
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.194	19.36
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.165	19.69
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.803	29.14
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.828	29.21
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.846	29.45
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.856	29.21
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.863	39.43
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.818	39.24
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.754	39.27
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.812	39.58
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.544	49.29
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.529	49.12
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.431	49.2
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.506	49.02
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.92	59.89
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.84	59.76

77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.782	60.08
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.929	59.67
77	30	70	656000	3840.0	CP-OFDM QPSK	189@0	67.566	69.8
77	30	70	656000	3840.0	CP-OFDM 16 QAM	189@0	67.536	69.76
77	30	70	656000	3840.0	CP-OFDM 64 QAM	189@0	67.563	69.67
77	30	70	656000	3840.0	CP-OFDM 256 QAM	189@0	67.362	69.63
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.539	79.94
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.506	79.87
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.611	80.14
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.64	80.17
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.644	90.3
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.392	90.26
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.543	90.31
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.478	90.24
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.633	100.6
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.57	100.6
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.508	100.4
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	97.675	100.6

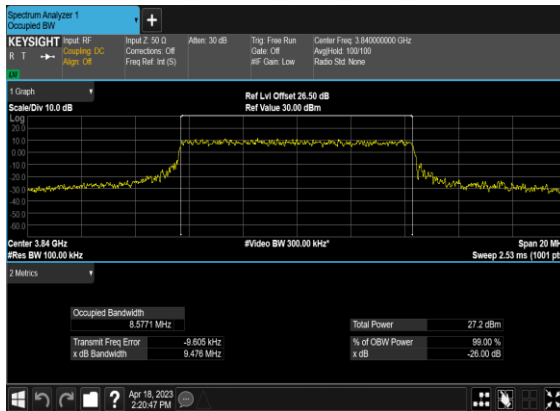
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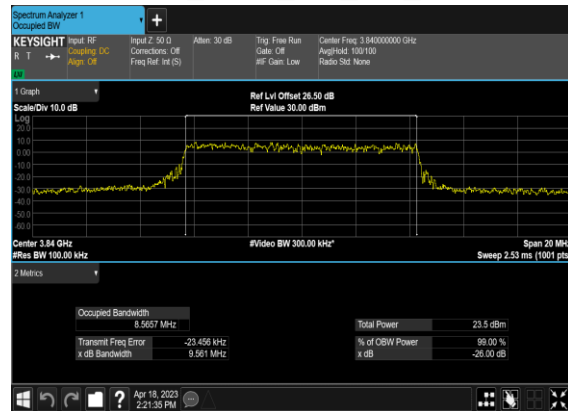
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QAM_Outer_Full_Mid_CH



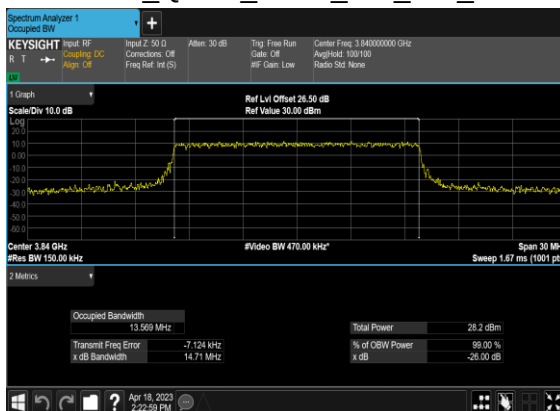
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QAM_Outer_Full_Mid_CH



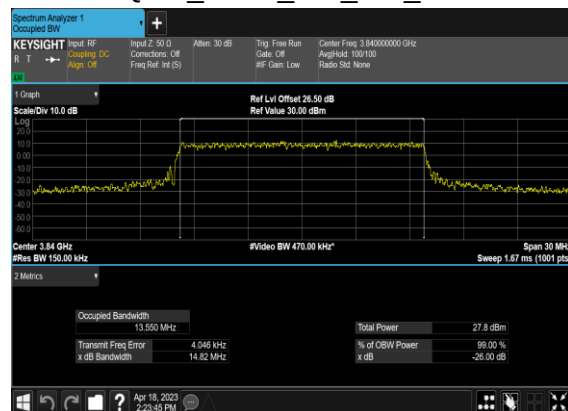
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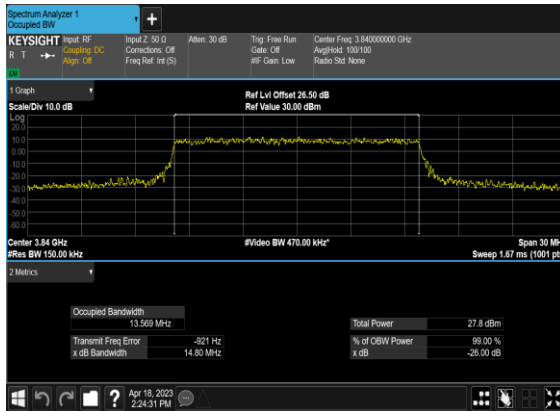
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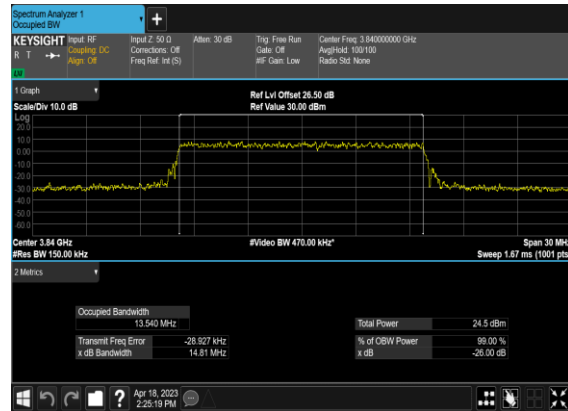
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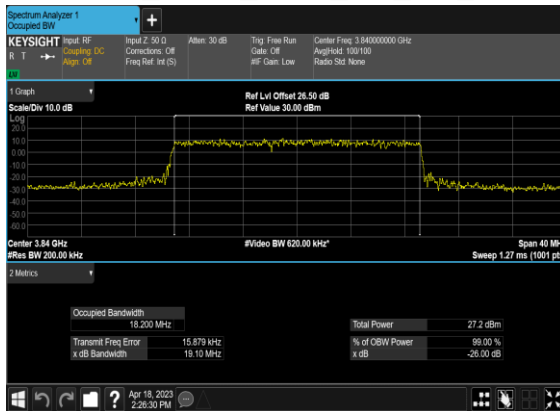
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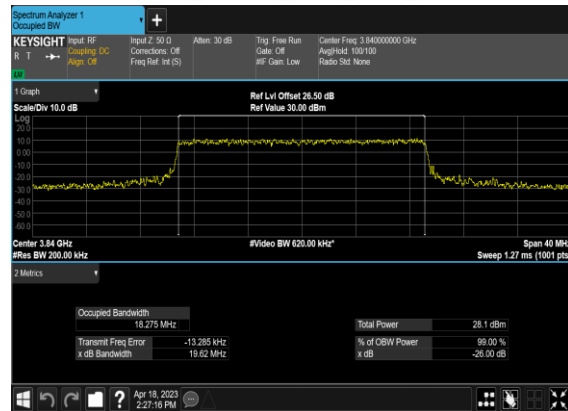
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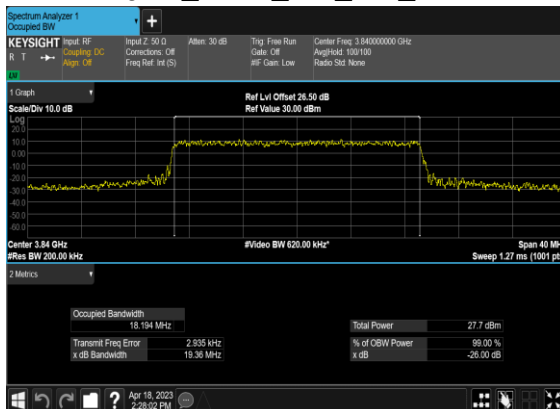
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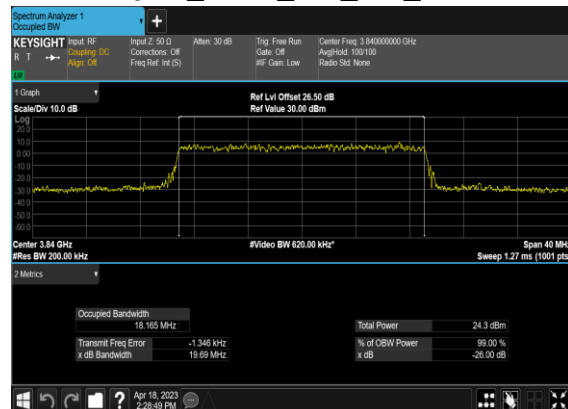
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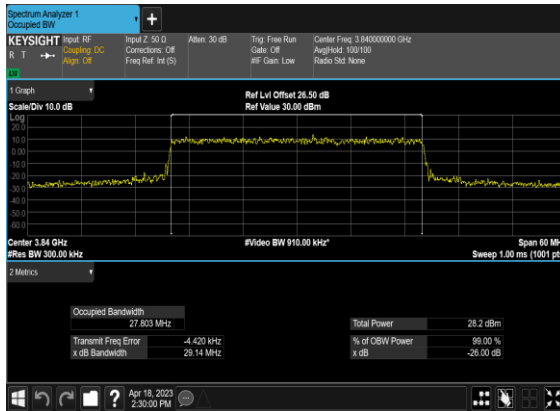
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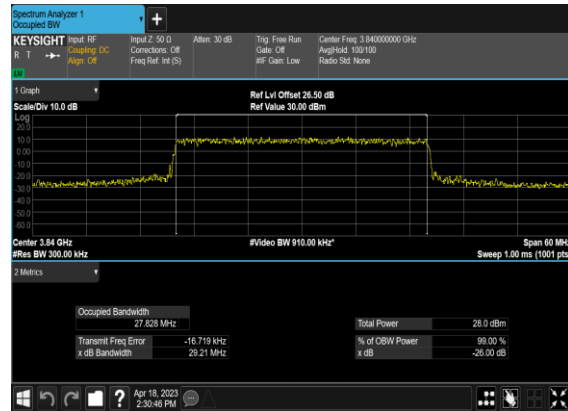
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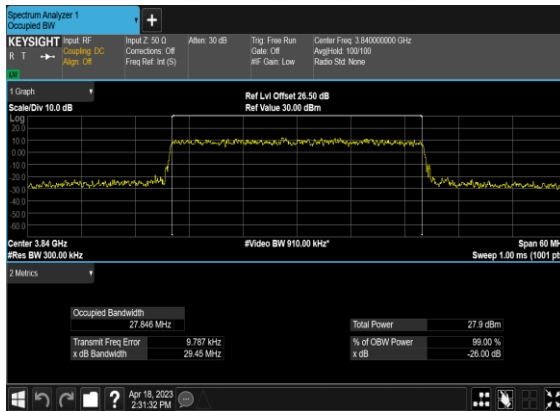
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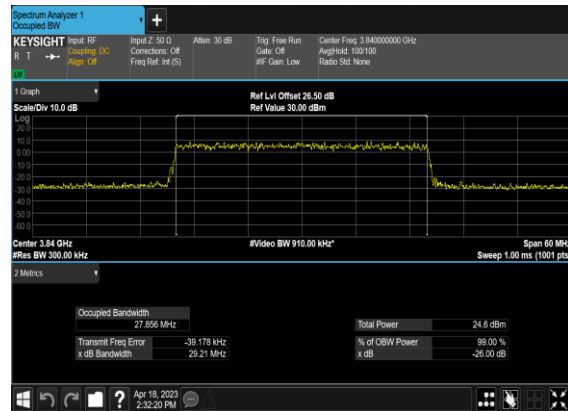
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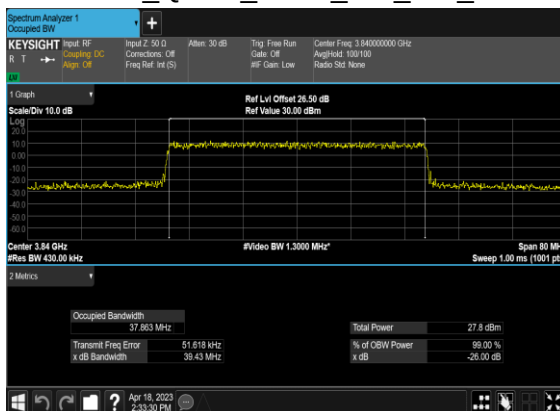
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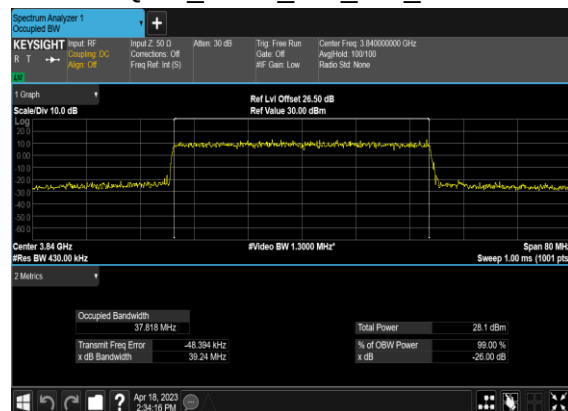
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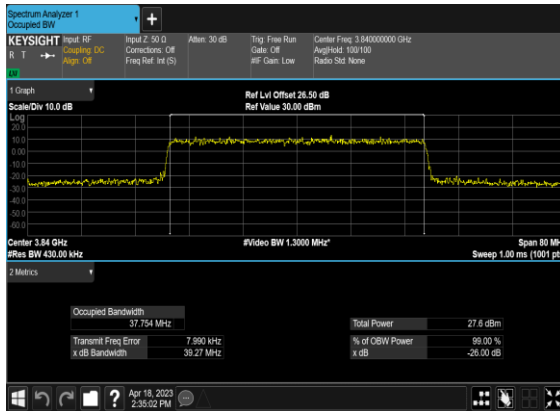
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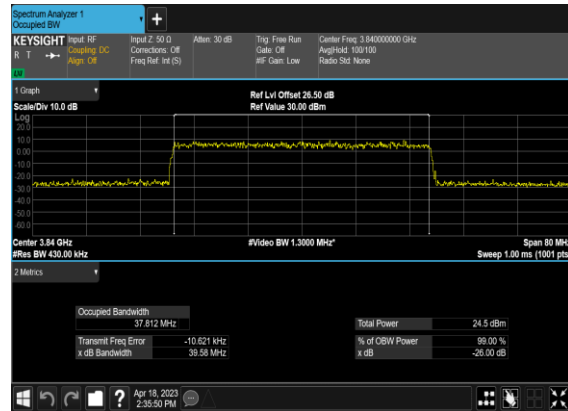
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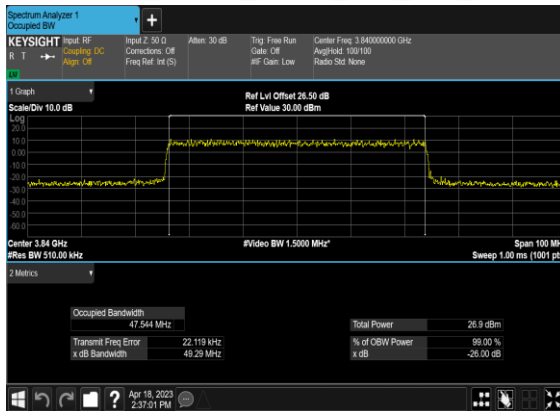
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QAM_Outer_Full_Mid_CH



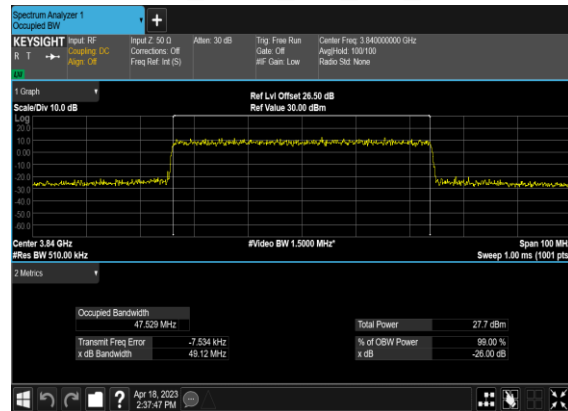
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QAM_Outer_Full_Mid_CH



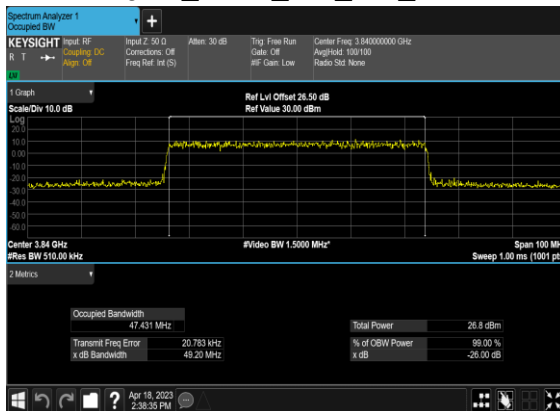
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OFDM_QPSK_Outer_Full_Mid_CH



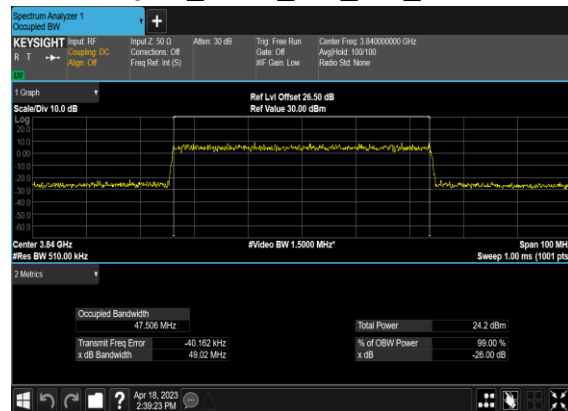
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QAM_Outer_Full_Mid_CH



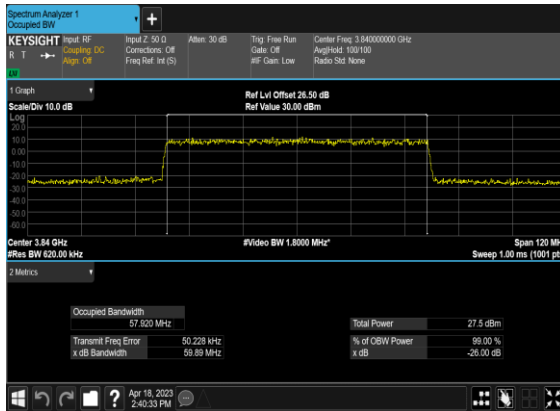
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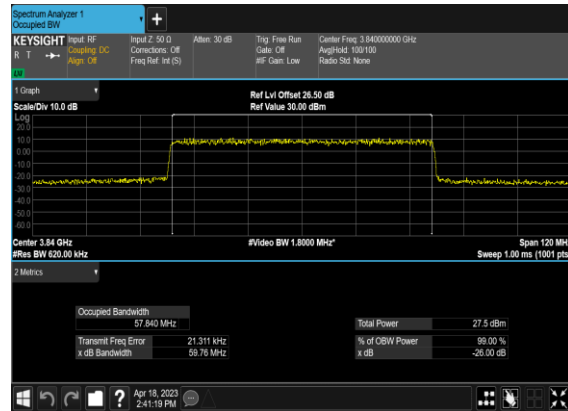
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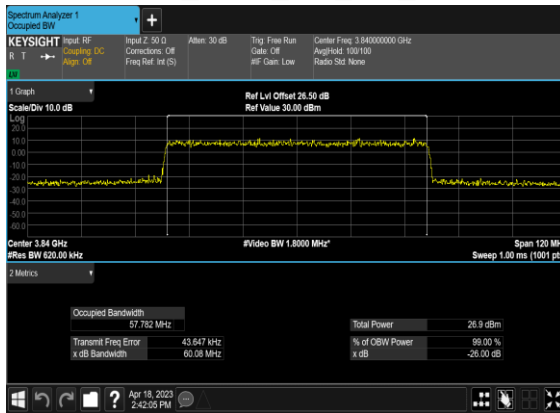
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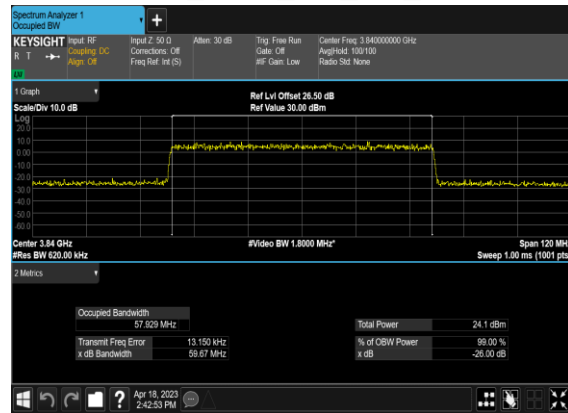
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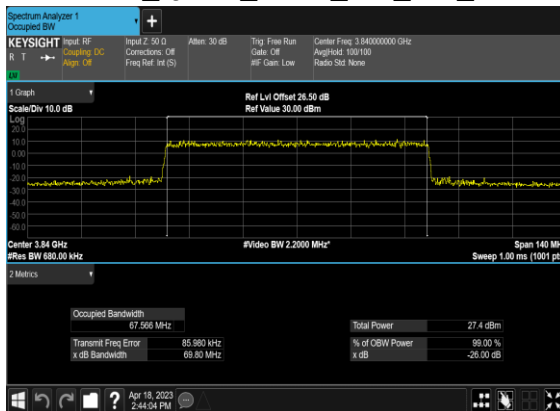
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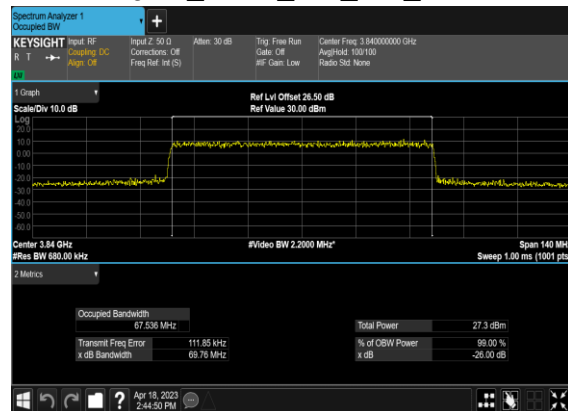
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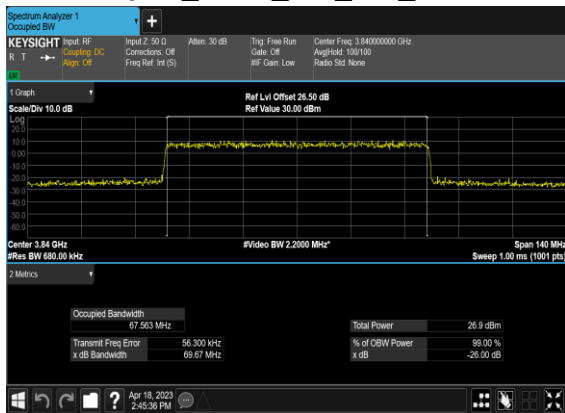
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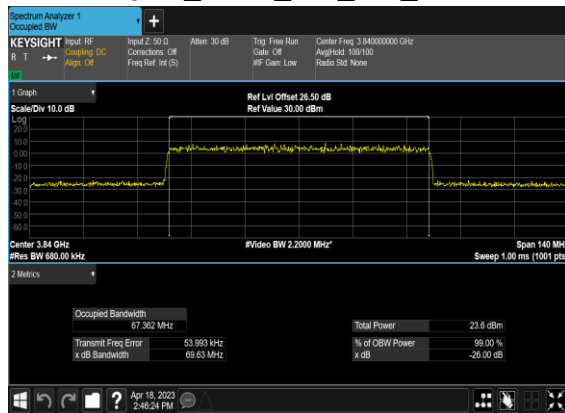
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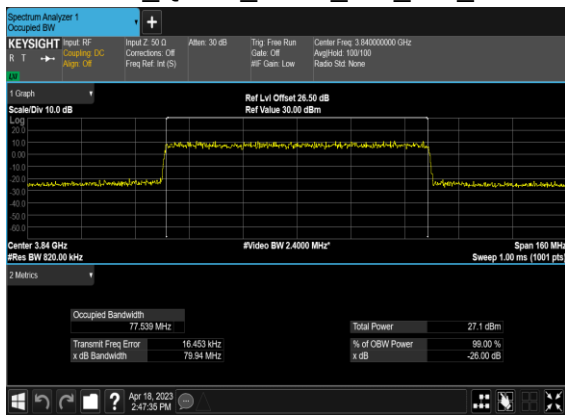
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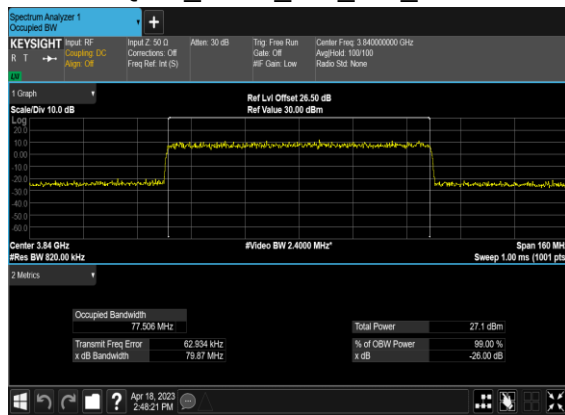
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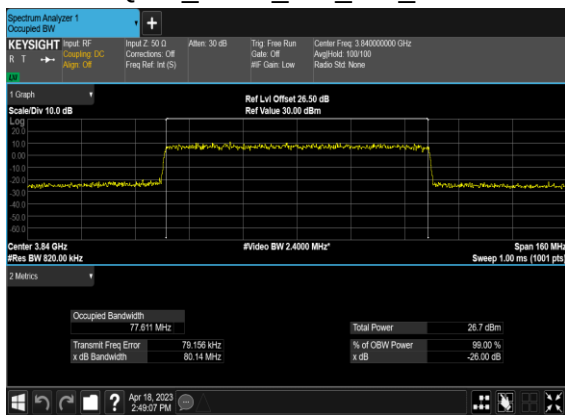
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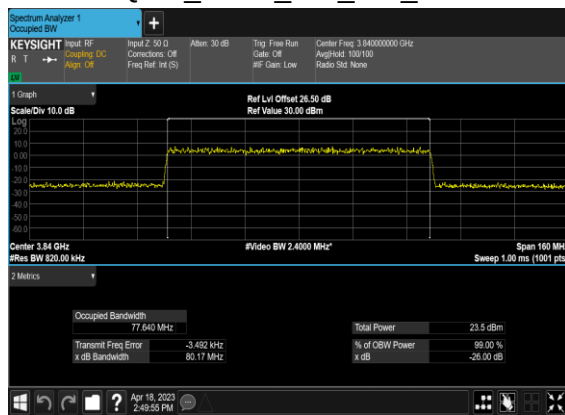
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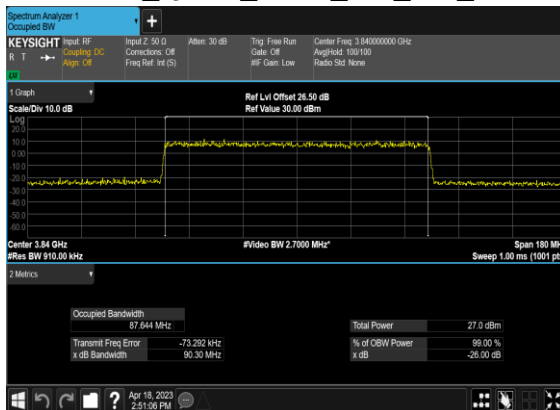
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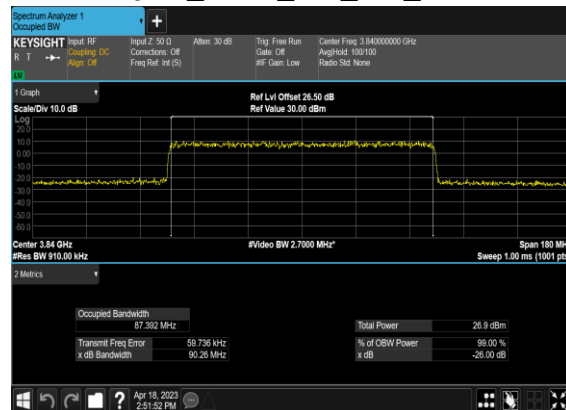
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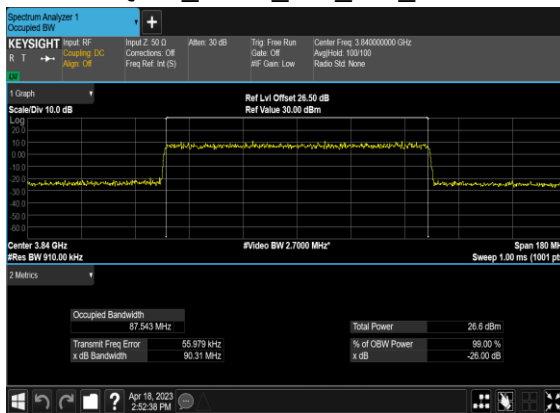
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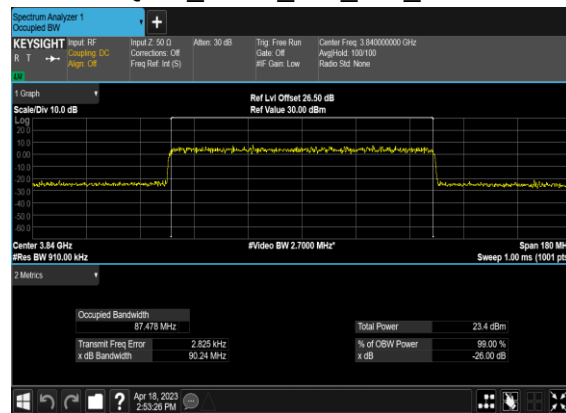
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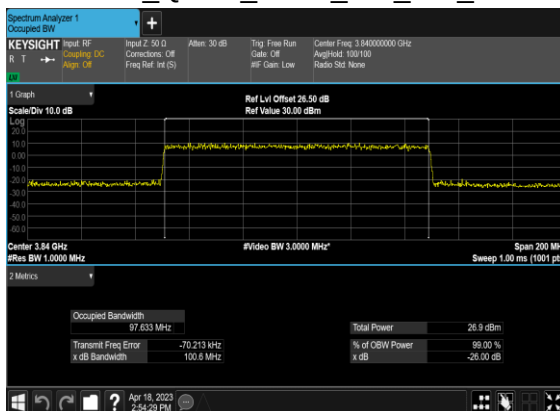
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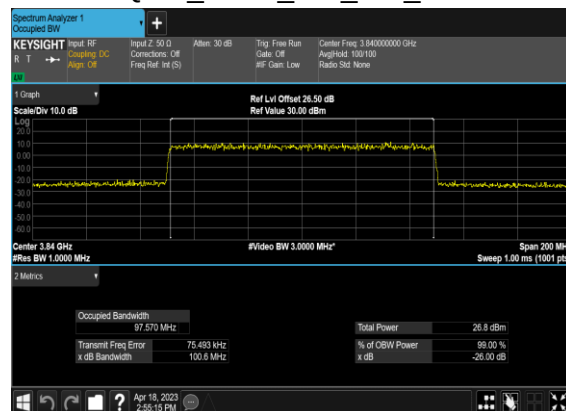
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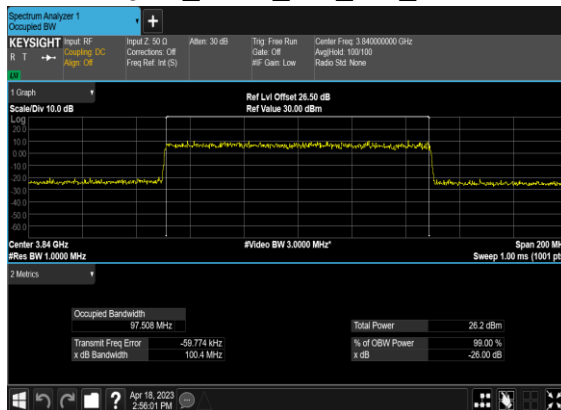
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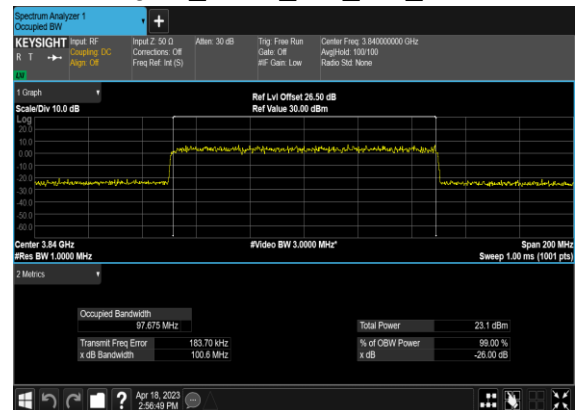
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N77(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



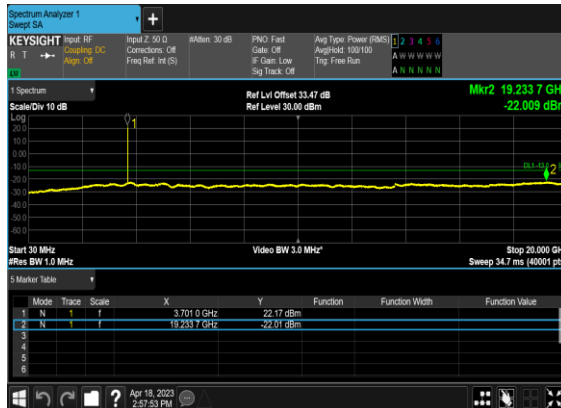
Conducted Spurious Emissions

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

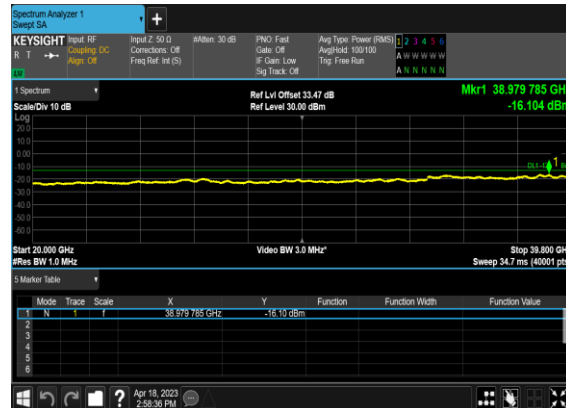
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	656000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

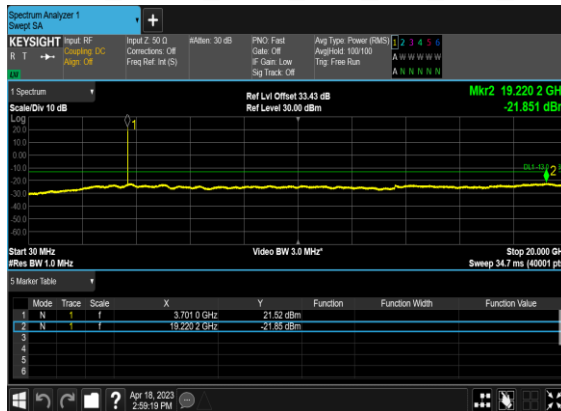
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



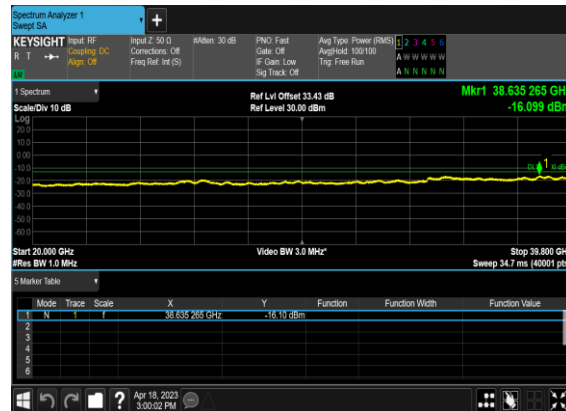
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OFDM_BPSK_Edge_1RB_Left_Low_CH



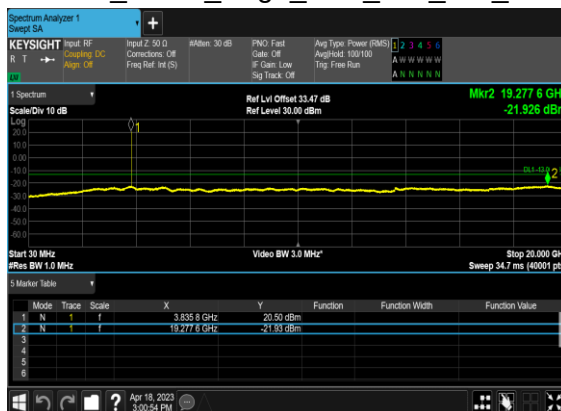
N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



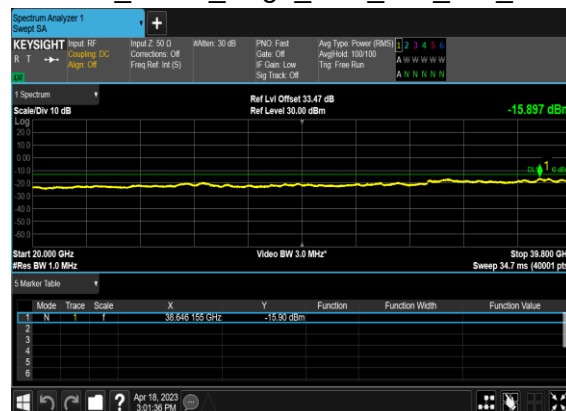
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OFDM_QPSK_Edge_1RB_Left_Low_CH



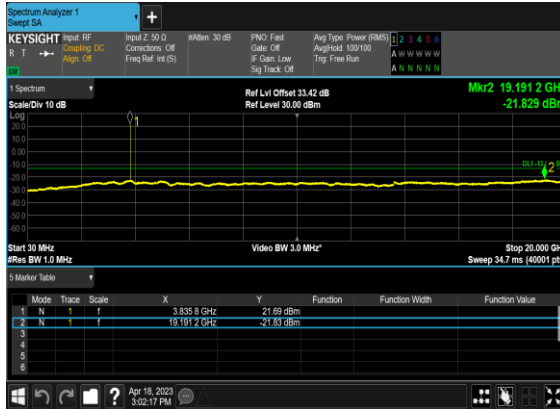
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



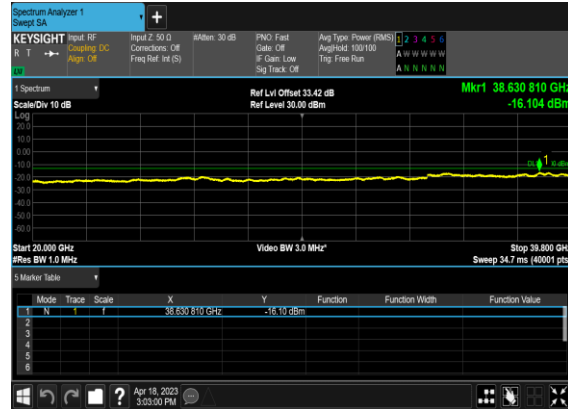
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



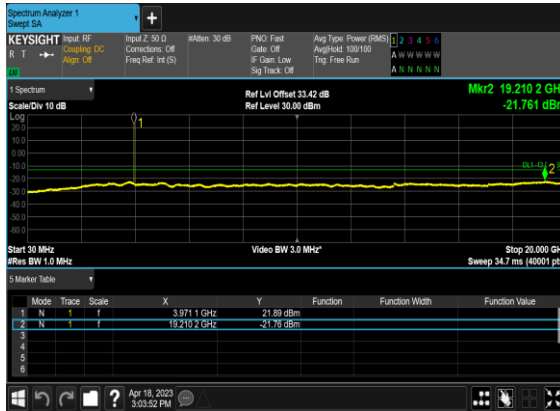
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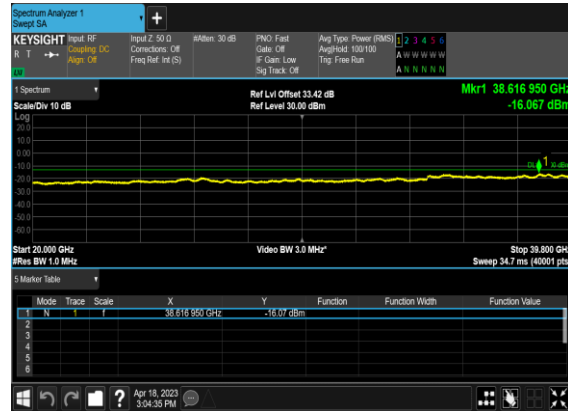
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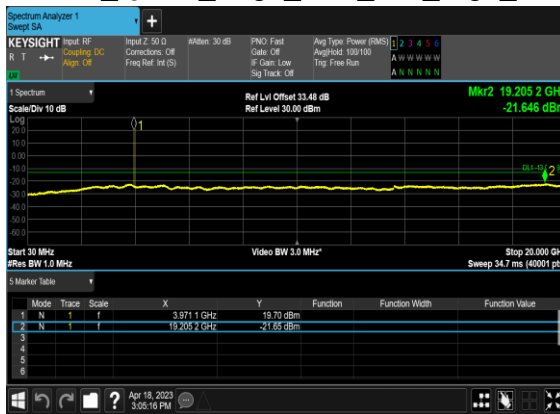
N77(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



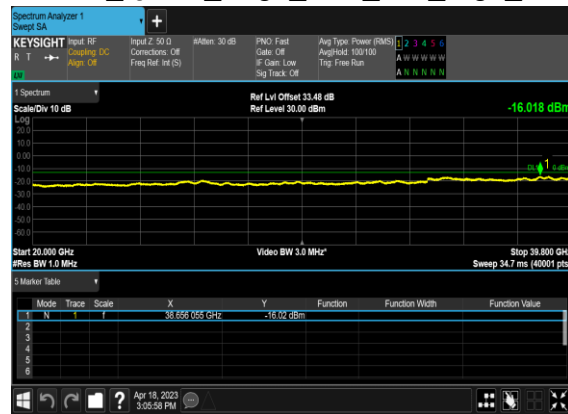
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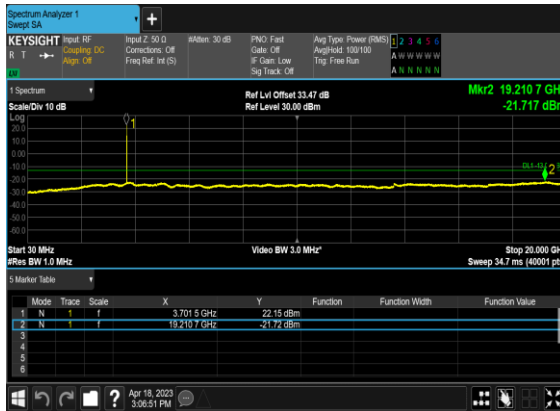
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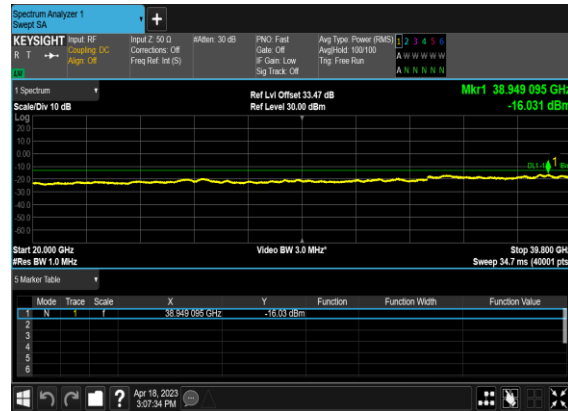
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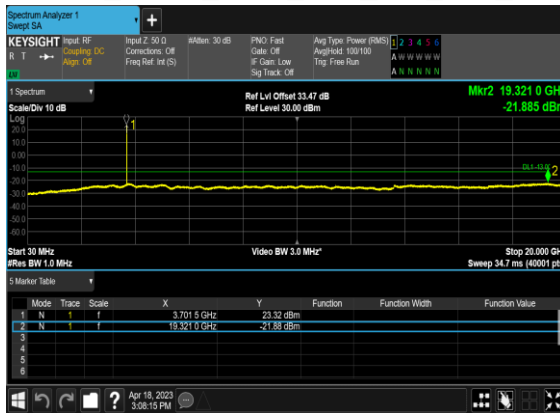
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



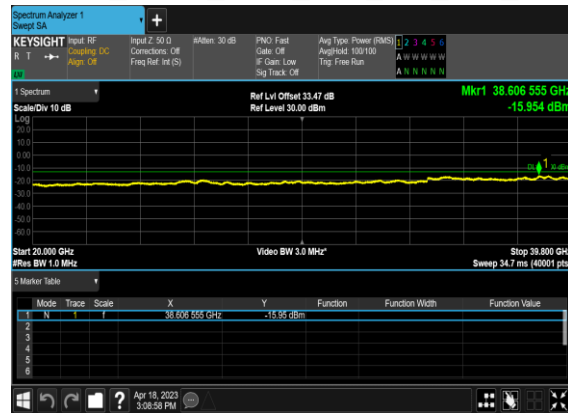
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OFDM_BPSK_Edge_1RB_Left_Low_CH



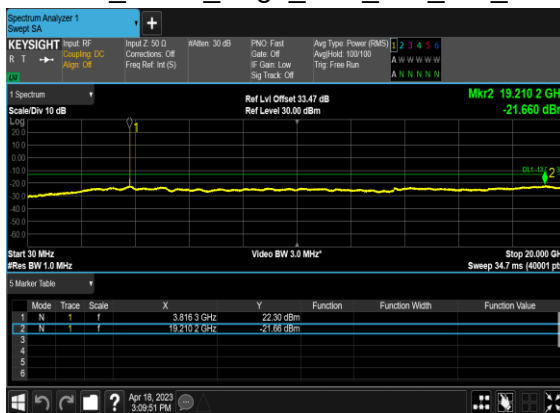
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OFDM_QPSK_Edge_1RB_Left_Low_CH



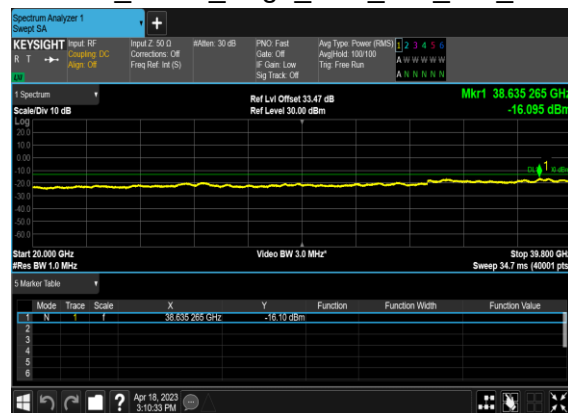
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OFDM_QPSK_Edge_1RB_Left_Low_CH



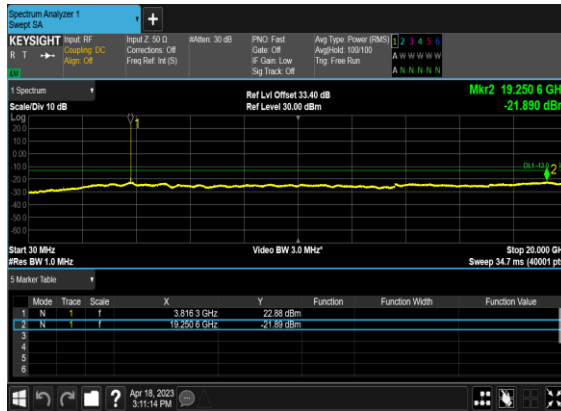
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



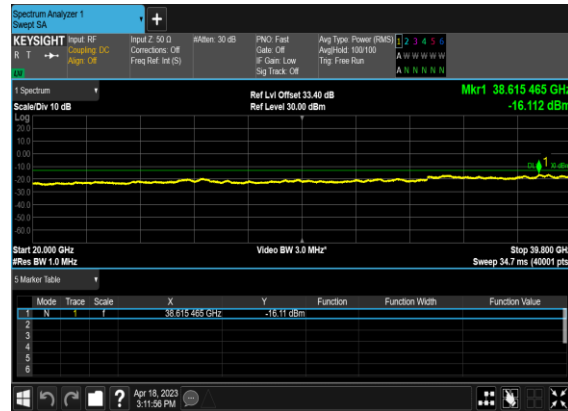
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OFDM_BPSK_Edge_1RB_Left_Mid_CH



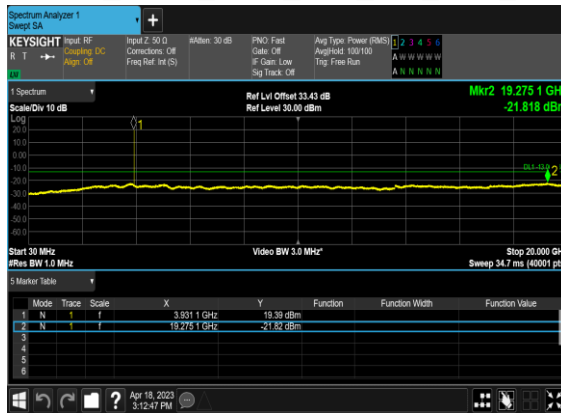
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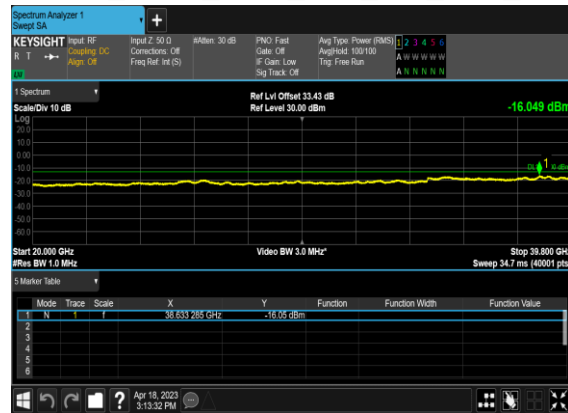
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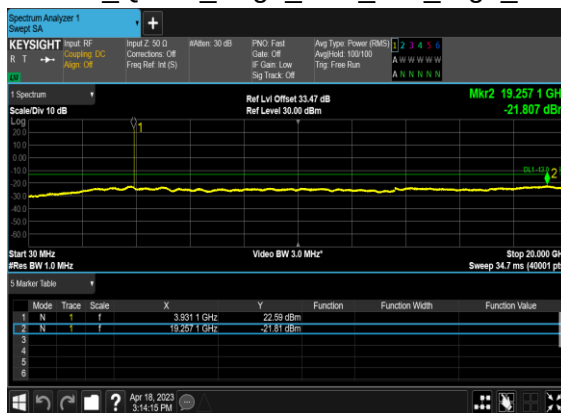
N77(50M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



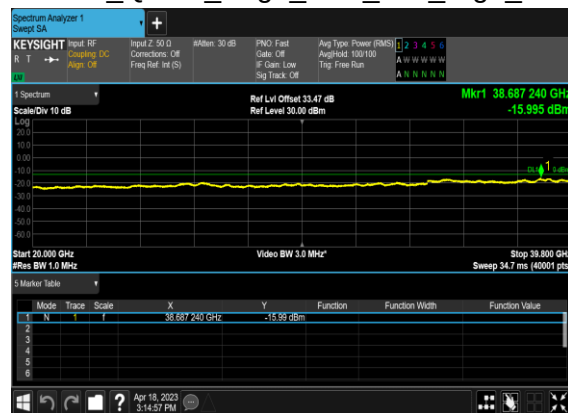
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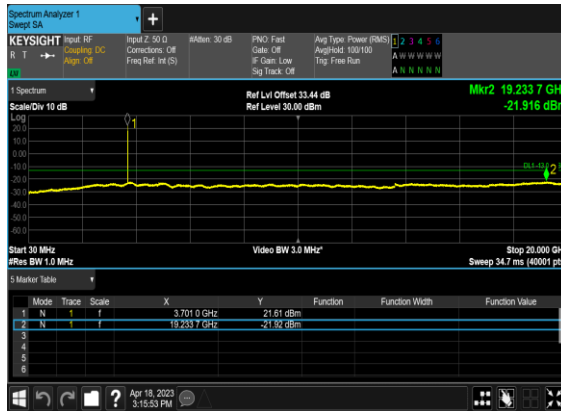
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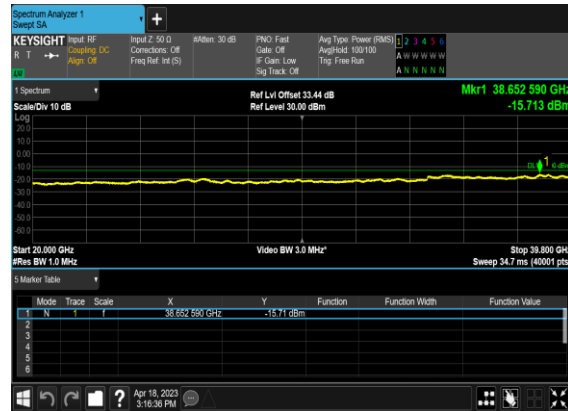
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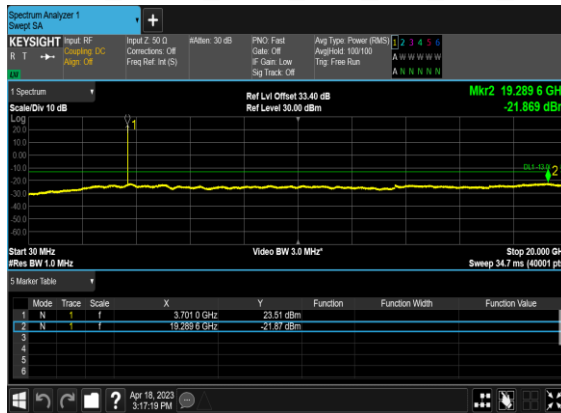
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



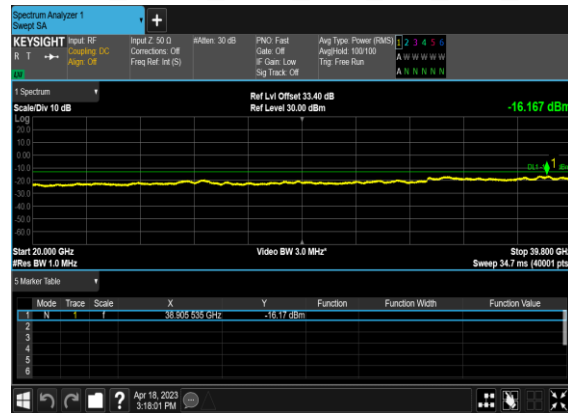
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



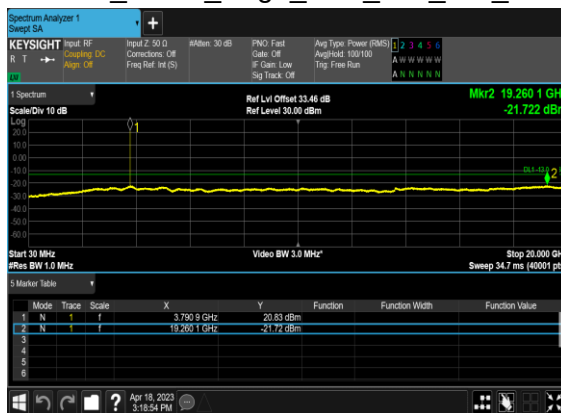
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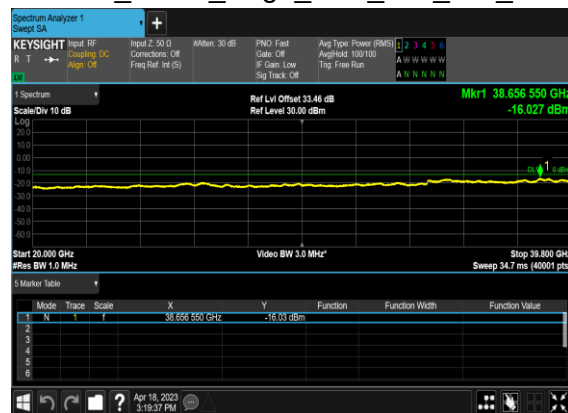
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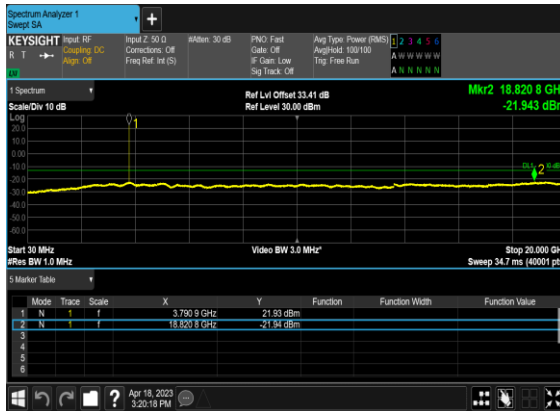
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



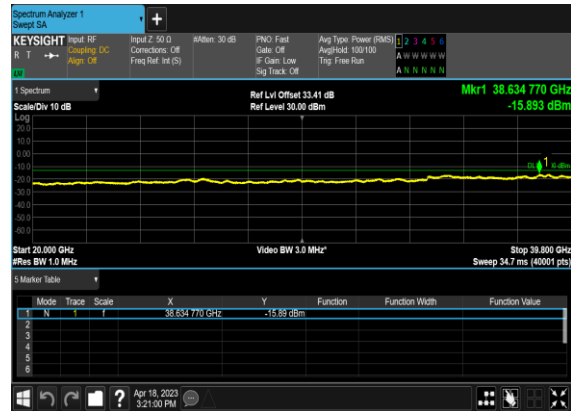
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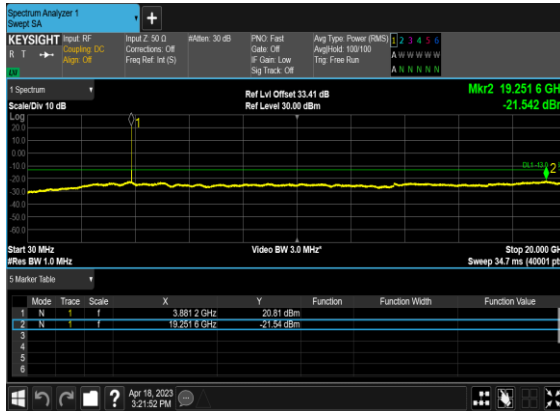
N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



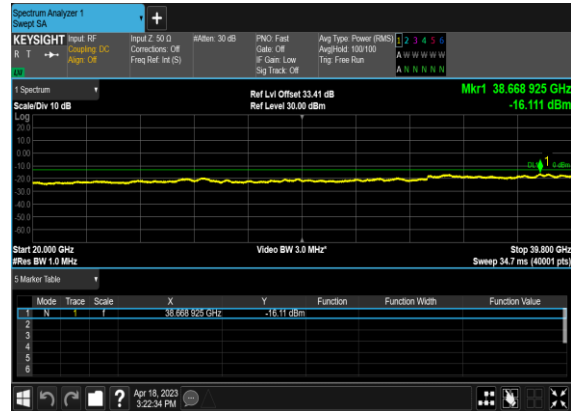
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OFDM_QPSK_Edge_1RB_Left_Mid_CH



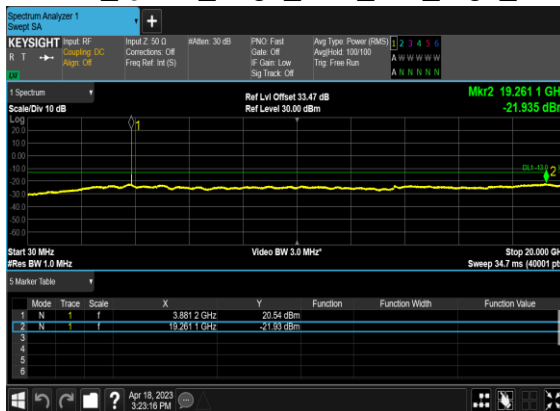
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



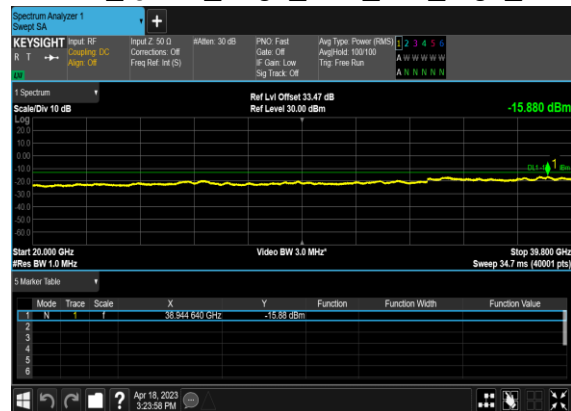
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



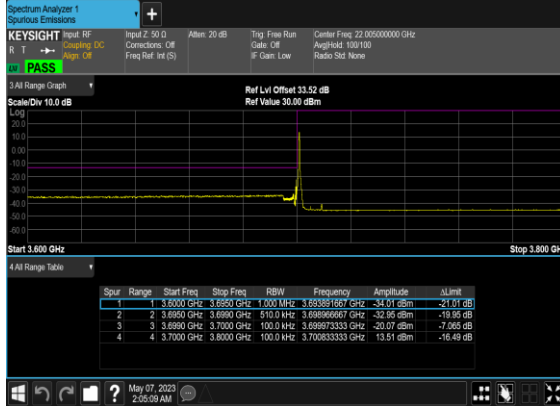
N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



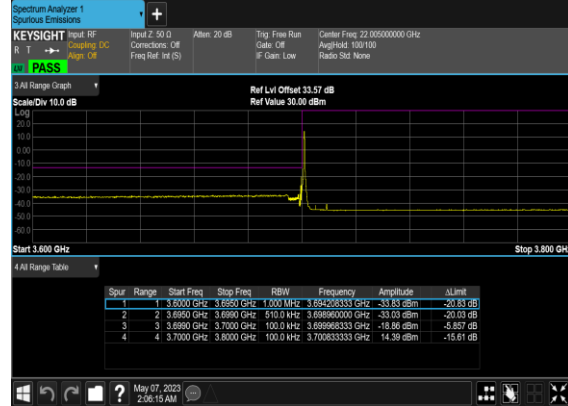
Conducted Band Edge

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

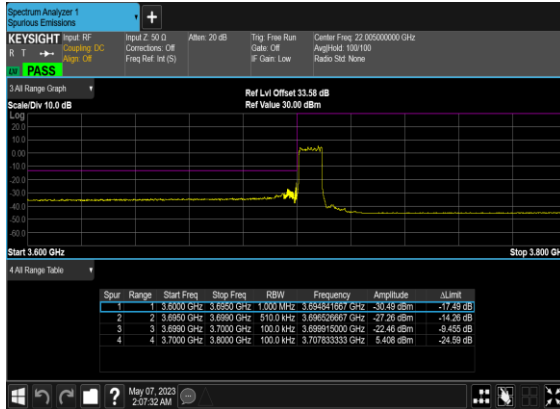
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



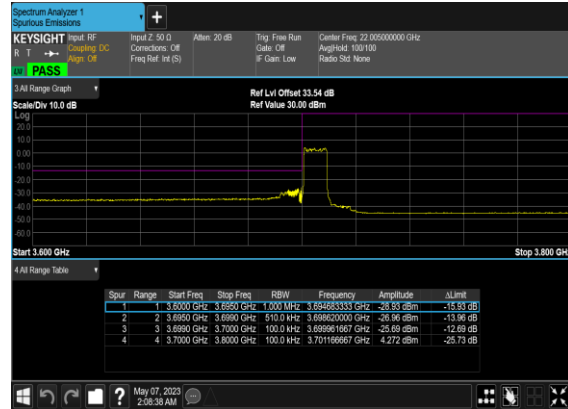
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OFDM_QPSK_Edge_1RB_Left_Low_CH



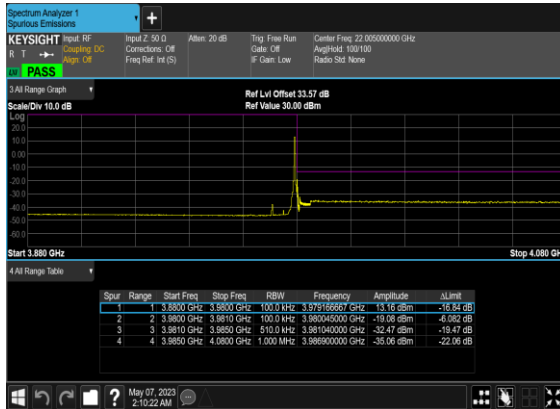
N77(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



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

