

FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : Xiaomi
MODEL NAME : 2210129SG
FCC ID : 2AFZZ129SG
STANDARD : 47 CFR Part 2, Part 27 Subpart Q
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Aug. 03, 2022 ~ Aug. 30, 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.

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

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

Jason Jia

Approved by: Jason Jia



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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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG271606I	Rev. 01	Initial issue of report	Sep. 19, 2022

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 43.83 dB at 10362.00 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	2210129SG
FCC ID	2AFZZ129SG
IMEI Code	Conducted : 866583060070586/866583060070594 Radiation : 866583060055322/866583060055156
HW Version	P2
SW Version	MIUI 14
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 MHz
Bandwidth	5G NR n77: 10 MHz / 15 MHz / 20MHz / 30MHz / 40MHz / 50 MHz / 60MHz / 70 MHz / 80MHz / 90 MHz / 100MHz 5G NR n78: 10 MHz / 15 MHz / 20MHz / 30MHz / 40MHz / 50 MHz / 60MHz / 70 MHz / 80MHz / 90 MHz / 100MHz
SCS	30kHz
Antenna Gain	<Ant. 0> 5G NR n77 : -3.98 dBi 5G NR n78 : -3.98 dBi <Ant. 9> 5G NR n77 : 2.96 dBi 5G NR n78 : 2.96 dBi <Ant. 10> 5G NR n77 : -3.24 dBi 5G NR n78 : -3.24 dBi <Ant. 11> 5G NR n77 : -2.01 dBi 5G NR n78 : -2.01 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. Only 5G NR n77/n78 for Part 27Q are tested in this report, all the other RF bands are tested in the other reports separately.
2. The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP of Antenna 9 is shown in the report.
3. 5G NR n77/n78 suport Antenna TX switch for Antenna 0/9/10/11, pretest all the antennas, and only the test data of worst Antenna 11 is shown in the report.
4. 5G NR n77/n78 support SA and NSA mode. The whole testing has assessed SA mode for n77/78 by referring to the higher conducted power for conducted test items.
5. 5G NR n78 support HPUE mode.
6. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
7. The EN-DC mode combination could be referred to the product spec.

1.5 Modification of EUT

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

1.6 Maximum EIRP Power 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	3455.01 ~ 3544.98	0.5164	8M61G7D	0.4130	8M60W7D
15	3457.50 ~ 3542.49	0.5445	13M6G7D	0.4416	13M6W7D
20	3460.02 ~ 3540.00	0.5572	18M2G7D	0.4592	18M2W7D
30	3465.00 ~ 3534.99	0.5358	27M9G7D	0.4457	27M9W7D
40	3470.01 ~ 3529.98	0.5420	37M9G7D	0.4236	37M9W7D
50	3475.02 ~ 3525.00	0.5248	47M5G7D	0.4276	47M6W7D
60	3480.00 ~ 3519.99	0.5117	57M9G7D	0.4121	57M9W7D
70	3485.01 ~ 3514.98	0.5200	67M5G7D	0.4256	67M6W7D
80	3490.02 ~ 3510.00	0.5035	77M5G7D	0.4121	77M6W7D
90	3495.00 ~ 3504.99	0.5058	87M4G7D	0.4093	87M6W7D
100	3500.01 ~ 3500.01	0.5623	97M5G7D	0.3936	97M7W7D

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	3455.01 ~ 3544.98	0.6310	8M61G7D	0.5093	8M60W7D
15	3457.50 ~ 3542.49	0.6501	13M6G7D	0.5164	13M6W7D
20	3460.02 ~ 3540.00	0.6982	18M2G7D	0.5848	18M2W7D
30	3465.00 ~ 3534.99	0.7063	27M9G7D	0.5902	27M9W7D
40	3470.01 ~ 3529.98	0.7096	37M9G7D	0.5848	37M9W7D
50	3475.02 ~ 3525.00	0.6823	47M5G7D	0.5445	47M6W7D
60	3480.00 ~ 3519.99	0.6918	57M9G7D	0.5585	57M9W7D
70	3485.01 ~ 3514.98	0.6745	67M5G7D	0.5610	67M6W7D
80	3490.02 ~ 3510.00	0.6637	77M5G7D	0.5585	77M6W7D
90	3495.00 ~ 3504.99	0.6761	87M4G7D	0.5598	87M6W7D
100	3500.01 ~ 3500.01	0.7112	97M5G7D	0.5309	97M7W7D

Note:

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

1.7 Testing Site

Sporton International Inc. (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 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-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 case in section 3 of this report

1.8 Test Software

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

1.9 Applied Standards

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

- ♦ 47 CFR Part 2, Part 27 Subpart Q
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

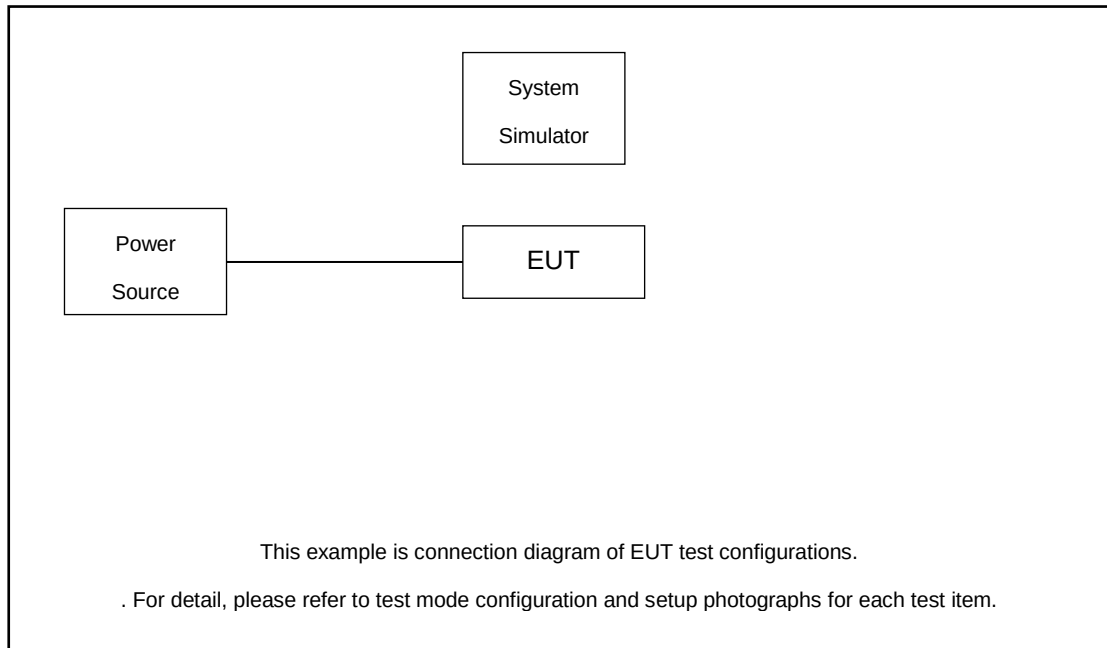
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

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

Note:

1. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.
2. Based on engineering evaluation, only the worst modulations test results are shown in the report.
3. The n78 conducted and RSE test results cover n77 in this report.
4. Frequency Stability: Normal Voltage = 3.89V ; Low Voltage =3.40V.; High Voltage =4.52V

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

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

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

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

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 5.85 + 10 = 15.85 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

5G n77/n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636332
	Frequency	3455.01	3500.01	3544.98

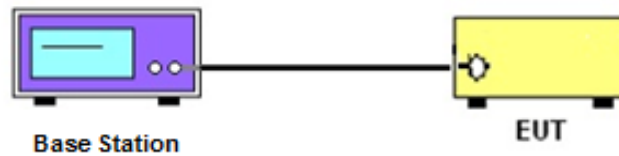
3 Conducted Test Items

3.1 Measuring Instruments

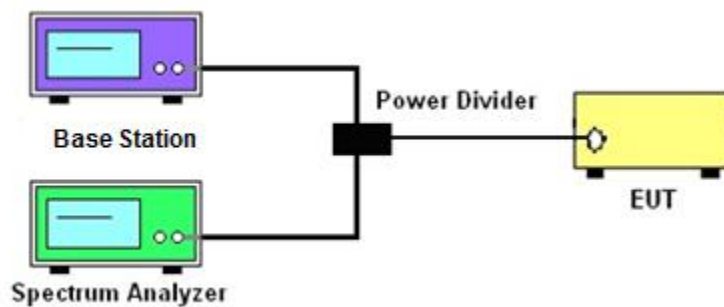
See list of measuring instruments of this test report.

3.2 Test Setup

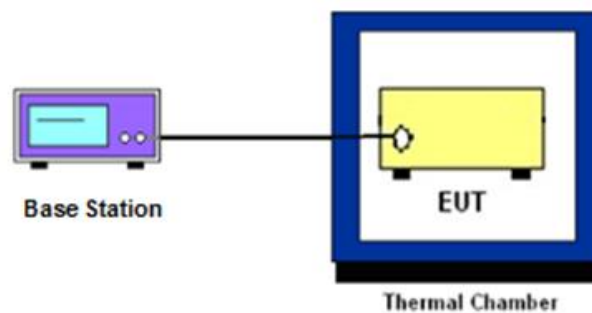
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

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

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

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

3.6 EIRP

3.6.1 Description of EIRP Limit

§ 27.50 (k)(3)

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

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. $EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where
 P_T = transmitter output power in dBm
 G_T = gain of the transmitting antenna in dBi
 L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.7 Occupied Bandwidth

3.7.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 27.53 (n)(2)

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

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW ≥ 500 KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

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

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

3.9.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. Checked that all the results comply with the emission limit line.

3.10 Frequency Stability Measurement

3.10.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

3.10.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.10.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5.
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

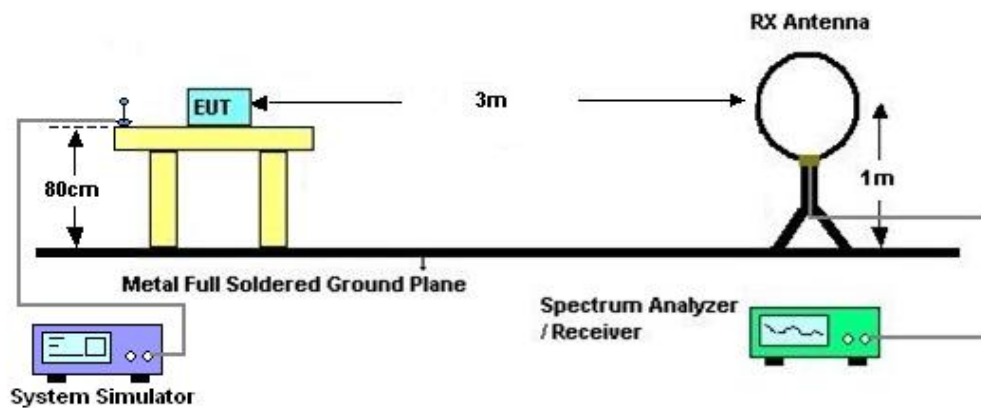
4 Radiated Test Items

4.1 Measuring Instruments

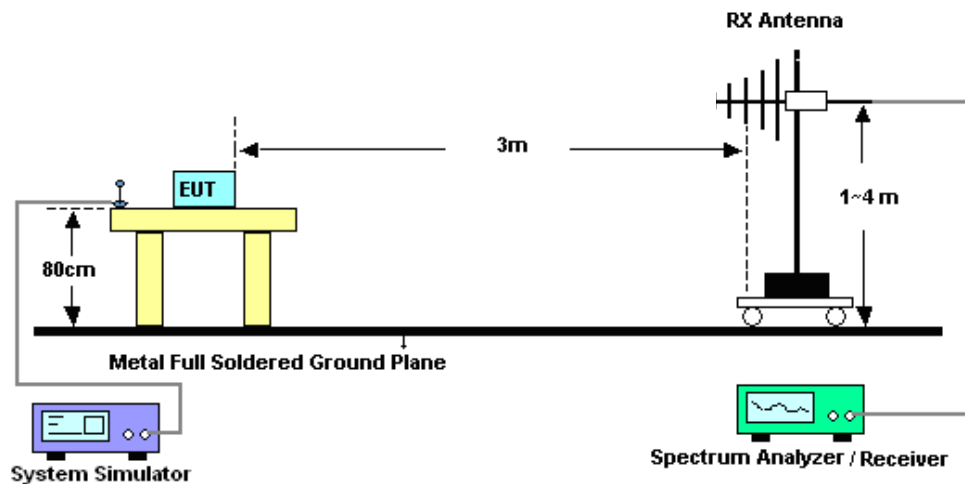
See list of measuring instruments of this test report.

4.2 Test Setup

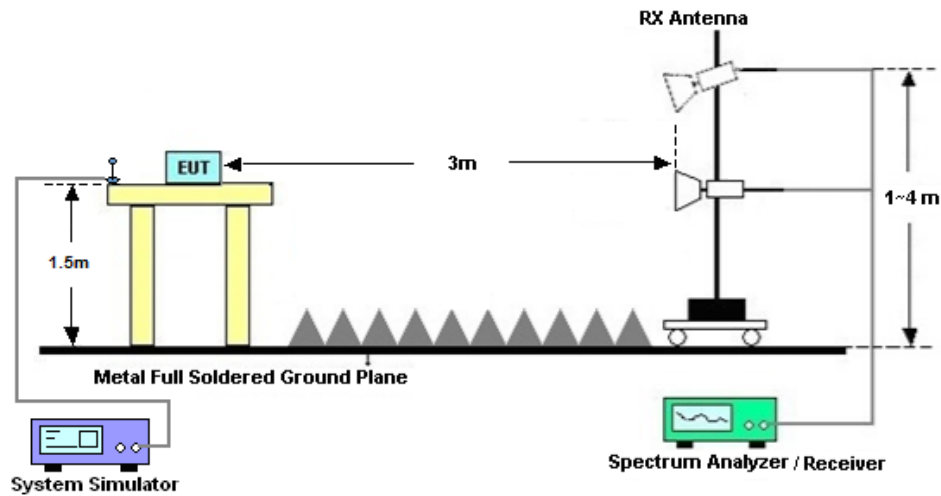
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2021	Aug. 18, 2022~ Aug. 30, 2022	Dec. 26, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021	Aug. 18, 2022~ Aug. 30, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 07, 2022	Aug. 18, 2022~ Aug. 30, 2022	Jul. 06, 2023	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010B	MY57541079	10Hz-44G,MAX 30dB	Oct. 14, 2021	Aug. 03, 2022	Oct. 13, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Aug. 03, 2022	Oct. 29, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2022	Aug. 03, 2022	May 29, 2023	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 18, 2021	Aug. 03, 2022	Oct. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2022	Aug. 03, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 05, 2022	Aug. 03, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2022	Aug. 03, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060839	1Ghz-18Ghz	Oct. 14, 2021	Aug. 03, 2022	Oct. 13, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 13, 2021	Aug. 03, 2022	Oct. 12, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 03, 2022	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 03, 2022	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 03, 2022	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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 Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.3dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8dB
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Appendix A. Test Results of Conducted Test

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

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Conducted Output Power and EIRP, ($G_T - L_C$)= 2.96dBi

NR Band	SCS	Band Width	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	23.9	26.86	0.4853
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	22.96	25.92	0.3908
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.1	27.06	0.5082
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.18	26.14	0.4111
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	24.17	27.13	0.5164
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	23.2	26.16	0.4130
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	24.19	27.15	0.5188
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	23.21	26.17	0.4140
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.33	27.29	0.5358
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.38	26.34	0.4305
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	24.4	27.36	0.5445
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	23.49	26.45	0.4416
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	24.14	27.1	0.5129
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	23.33	26.29	0.4256
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.5	27.46	0.5572
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.66	26.62	0.4592
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	24.48	27.44	0.5546
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	23.34	26.3	0.4266
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	24.33	27.29	0.5358
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	23.53	26.49	0.4457
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.14	27.1	0.5129
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.16	26.12	0.4093
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	24.03	26.99	0.5000
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	23.14	26.1	0.4074
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	24.3	27.26	0.5321
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	23.31	26.27	0.4236
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.38	27.34	0.5420
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.12	26.08	0.4055

77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	24.01	26.97	0.4977
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	22.85	25.81	0.3811
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	24.14	27.1	0.5129
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	23.28	26.24	0.4207
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.24	27.2	0.5248
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.25	26.21	0.4178
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	24.23	27.19	0.5236
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	23.35	26.31	0.4276
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	24.13	27.09	0.5117
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	23.18	26.14	0.4111
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.1	27.06	0.5082
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.19	26.15	0.4121
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	24.01	26.97	0.4977
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	23.11	26.07	0.4046
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	24.01	26.97	0.4977
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	23.18	26.14	0.4111
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.11	27.07	0.5093
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.27	26.23	0.4198
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	24.2	27.16	0.5200
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	23.33	26.29	0.4256
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	22.87	25.83	0.3828
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	23.05	26.01	0.3990
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.06	27.02	0.5035
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.19	26.15	0.4121
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	23.87	26.83	0.4819
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	22.98	25.94	0.3926
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	23.98	26.94	0.4943
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	23.05	26.01	0.3990
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.99	26.95	0.4955
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.09	26.05	0.4027
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	24.08	27.04	0.5058
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	23.16	26.12	0.4093
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@ 67	23.7	26.66	0.4634

77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.03	26.99	0.5000
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@27 1	23.62	26.58	0.4550
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@ 67	23.84	26.8	0.4786
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.54	27.5	0.5623
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@27 1	23.67	26.63	0.4603
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@ 67	22.98	25.94	0.3926
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.99	25.95	0.3936
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@27 1	22.61	25.57	0.3606
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@ 67	21.36	24.32	0.2704
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.52	24.48	0.2805
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@27 1	21.21	24.17	0.2612
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@ 67	19.36	22.32	0.1706
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.63	22.59	0.1816
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@27 1	19.18	22.14	0.1637
77	30	100	633334	3500.01	CP-OFDM QPSK	137@ 68	22.32	25.28	0.3373
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	22.56	25.52	0.3565
77	30	100	633334	3500.01	CP-OFDM QPSK	1@27 1	22.02	24.98	0.3148

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Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)= 2.96dBi

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	24.66	27.62	0.5781
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	23.66	26.62	0.4592
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.98	27.94	0.6223
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.96	26.92	0.4920
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	25.04	28	0.6310
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	24.11	27.07	0.5093
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	24.79	27.75	0.5957
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	23.86	26.82	0.4808
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.13	28.09	0.6442
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.05	27.01	0.5023
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	25.17	28.13	0.6501
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	24.17	27.13	0.5164
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	25.48	28.44	0.6982
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	24.71	27.67	0.5848
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.37	28.33	0.6808
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.53	27.49	0.5610
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	25.3	28.26	0.6699
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	24.37	27.33	0.5408
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	25.53	28.49	0.7063
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	24.75	27.71	0.5902
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.5	28.46	0.7015
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.75	27.71	0.5902
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	25.29	28.25	0.6683
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	24.43	27.39	0.5483
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.53	28.49	0.7063
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	24.68	27.64	0.5808
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.55	28.51	0.7096
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.71	27.67	0.5848

78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	25.29	28.25	0.6683
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	24.55	27.51	0.5636
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	25.27	28.23	0.6653
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	24.4	27.36	0.5445
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.38	28.34	0.6823
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.28	27.24	0.5297
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	25.16	28.12	0.6486
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	24.13	27.09	0.5117
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	25.39	28.35	0.6839
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	24.51	27.47	0.5585
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.44	28.4	0.6918
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.43	27.39	0.5483
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	25.32	28.28	0.6730
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	24.41	27.37	0.5458
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	25.33	28.29	0.6745
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	24.53	27.49	0.5610
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.33	28.29	0.6745
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.52	27.48	0.5598
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	25.26	28.22	0.6637
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	24.5	27.46	0.5572
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	25.23	28.19	0.6592
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	24.42	27.38	0.5470
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.26	28.22	0.6637
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.49	27.45	0.5559
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	25.26	28.22	0.6637
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	24.51	27.47	0.5585
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	25.3	28.26	0.6699
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	24.51	27.47	0.5585
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.26	28.22	0.6637
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.5	27.46	0.5572
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	25.34	28.3	0.6761
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	24.52	27.48	0.5598
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@ 67	25.23	28.19	0.6592

78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.56	28.52	0.7112
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@27 1	24.97	27.93	0.6209
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@ 67	25.13	28.09	0.6442
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.22	28.18	0.6577
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@27 1	24.92	27.88	0.6138
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@ 67	24.19	27.15	0.5188
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.29	27.25	0.5309
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@27 1	23.94	26.9	0.4898
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@ 67	22.72	25.68	0.3698
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.93	25.89	0.3882
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@27 1	22.5	25.46	0.3516
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@ 67	20.73	23.69	0.2339
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.85	23.81	0.2404
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@27 1	20.67	23.63	0.2307
78	30	100	633334	3500.01	CP-OFDM QPSK	137@ 68	23.69	26.65	0.4624
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	23.78	26.74	0.4721
78	30	100	633334	3500.01	CP-OFDM QPSK	1@27 1	23.35	26.31	0.4276

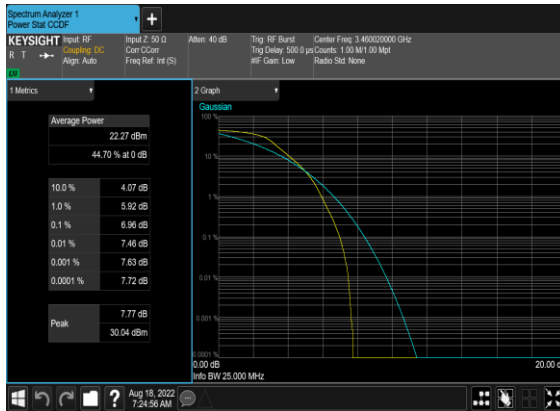
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0052	PASS	NV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0054	PASS	LV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0030	PASS	HV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0034	PASS	-30°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0067	PASS	-20°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0043	PASS	-10°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0061	PASS	0°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0027	PASS	10°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0052	PASS	20°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0070	PASS	30°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0024	PASS	40°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0034	PASS	50°C

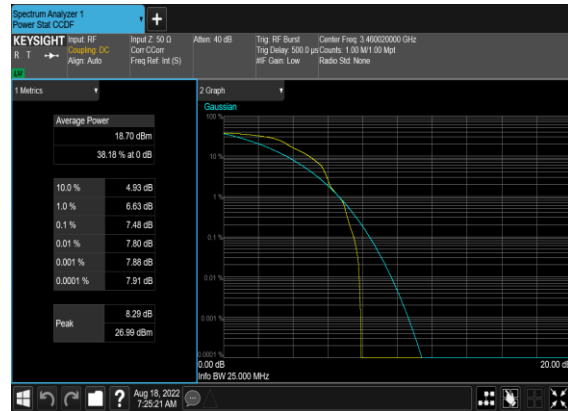
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	50@0	6.96	13	PASS
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@0	7.48	13	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	7.89	13	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	8.25	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	6.93	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	7.67	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	7.84	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	7.92	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	50@0	6.74	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@0	7.63	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	7.47	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	8.57	13	PASS

N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



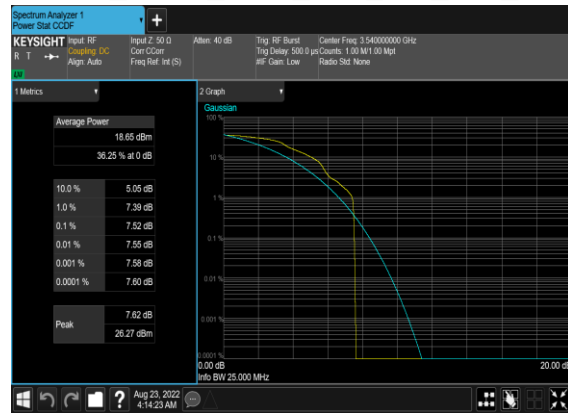
N78(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



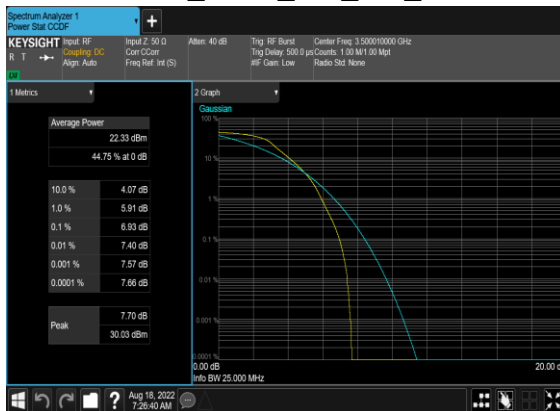
N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



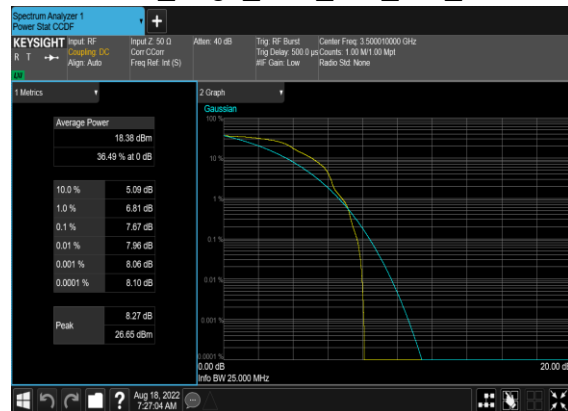
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



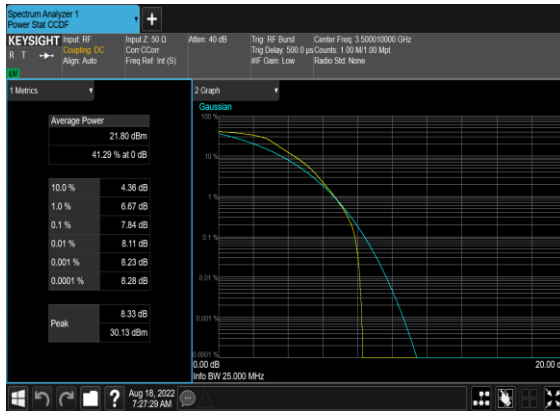
N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



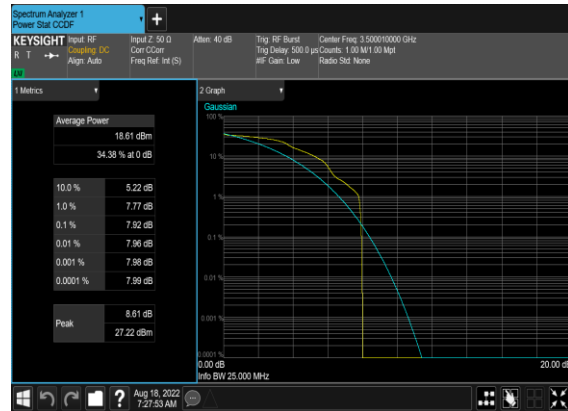
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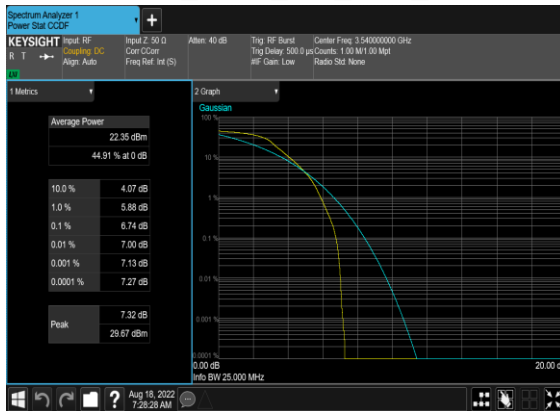
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OFDM_QPSK_Outer_Full_Mid_CH



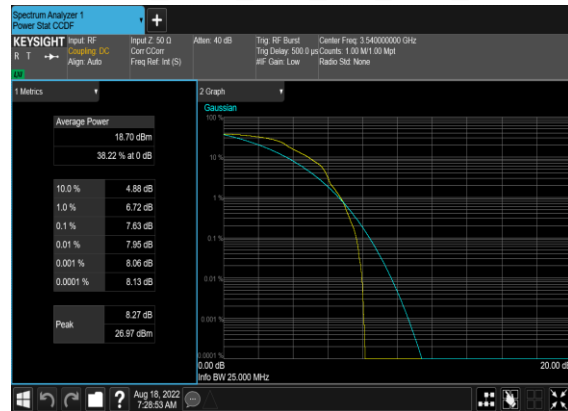
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OFDM_QPSK_Edge_1RB_Left_Mid_CH



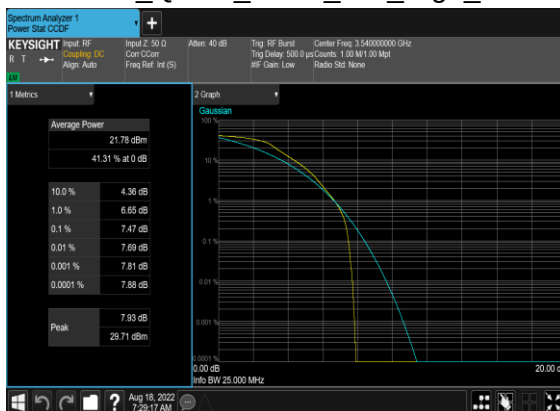
N78(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_High_CH



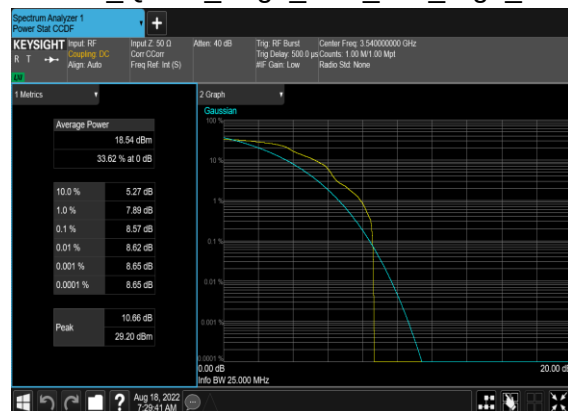
N78(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_High_CH



N78(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



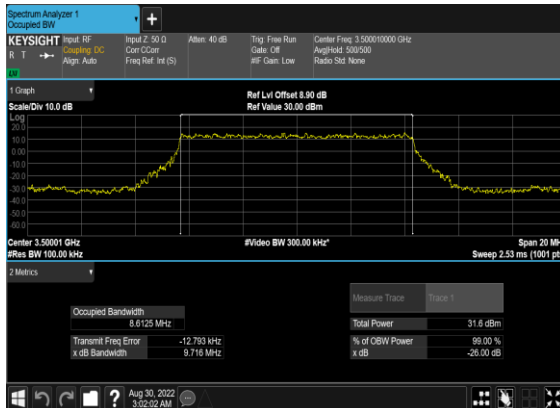
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
78	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	24@0	8.6125	9.716
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	24@0	8.6128	9.668
78	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5775	9.924
78	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5908	9.573
78	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5993	9.662
78	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.569	9.549
78	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@0	12.829	14.08
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	36@0	12.85	14.17
78	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.61	15.11
78	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.601	14.85
78	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.59	14.87
78	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.577	14.78
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	17.782	19.29
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	17.829	19.01
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.231	19.57
78	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.239	19.71
78	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.211	19.79
78	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.202	19.6
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	75@0	26.752	28.35
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	75@0	26.747	28.15
78	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.852	29.55
78	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.933	29.52
78	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.823	29.2
78	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.875	29.35

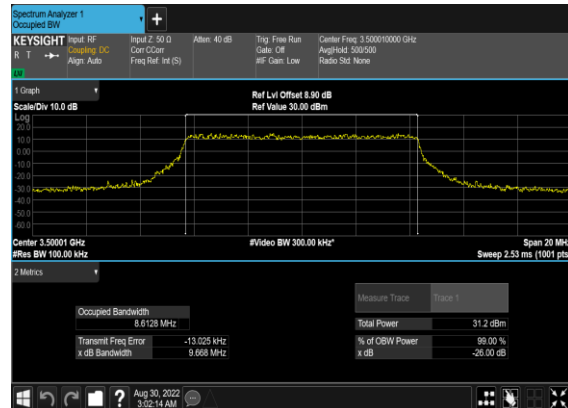
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	35.758	37.54
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	100@0	35.765	37.68
78	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.853	39.75
78	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.857	39.56
78	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.866	39.64
78	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.859	39.7
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	128@0	45.805	47.55
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	128@0	45.809	47.71
78	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.489	49.61
78	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.502	49.48
78	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.562	49.37
78	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.603	49.52
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	162@0	57.912	60.12
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	162@0	57.872	60.08
78	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.851	59.87
78	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.741	60.1
78	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.798	60.06
78	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.866	60.02
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	180@0	64.387	66.57
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	180@0	64.334	66.78
78	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.465	69.93
78	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.368	69.97
78	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.618	69.64
78	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.552	69.78
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	216@0	77.172	80.04
78	30	80	633334	3500.01	DFT-s-OFDM	216@0	77.143	79.62

QPSK								
78	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.507	80.03
78	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.559	80.05
78	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.596	80.25
78	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.467	80.11
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	240@0	85.903	88.7
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	240@0	85.779	88.67
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.371	90.55
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.387	90.25
78	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.579	90.45
78	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.571	90.66
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	96.489	99.49
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	96.56	99.62
78	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.547	100.9
78	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.475	100.7
78	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.432	100.7
78	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.678	100.7

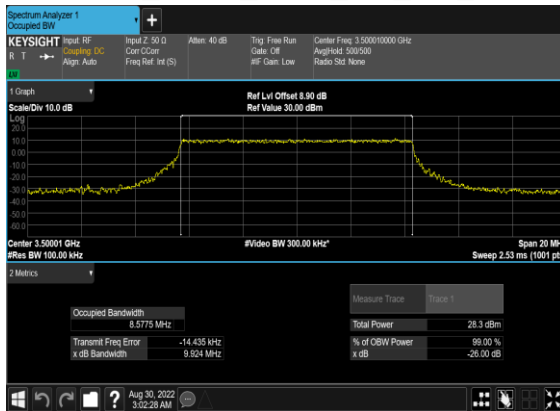
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BPSK_Outer_Full_Mid_CH



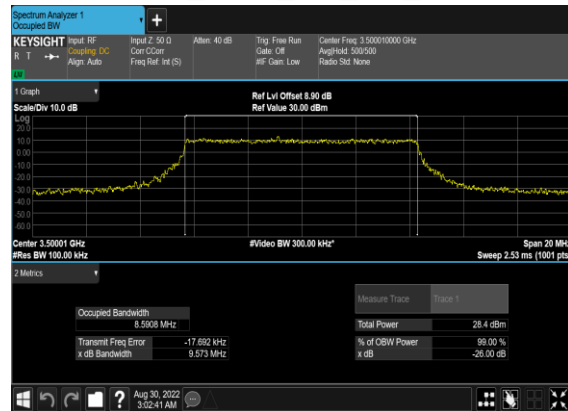
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OFDM_QPSK_Outer_Full_Mid_CH



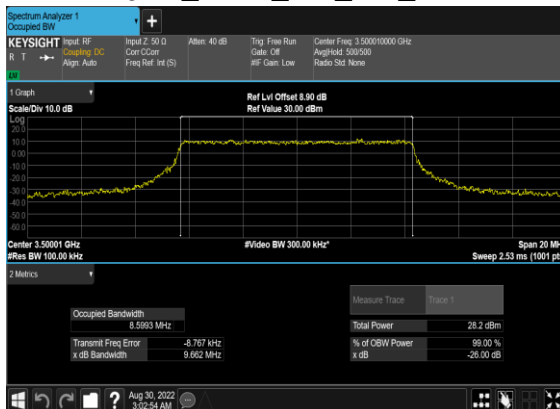
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OFDM_QPSK_Outer_Full_Mid_CH



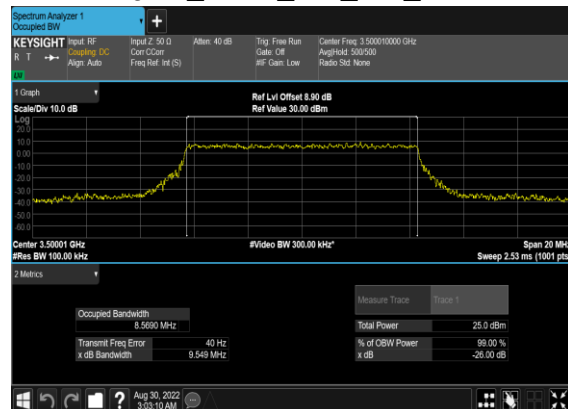
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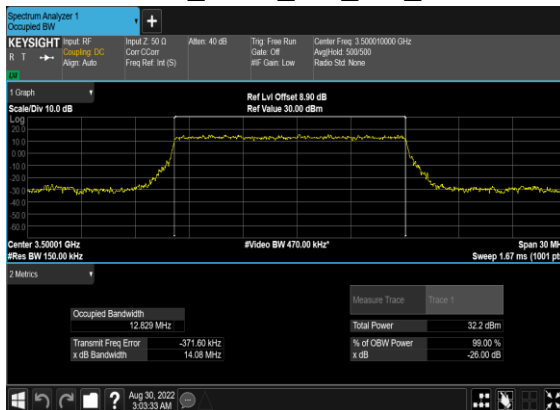
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QAM_Outer_Full_Mid_CH



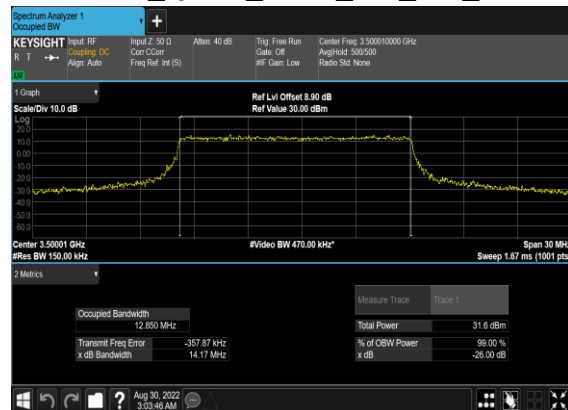
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QAM_Outer_Full_Mid_CH



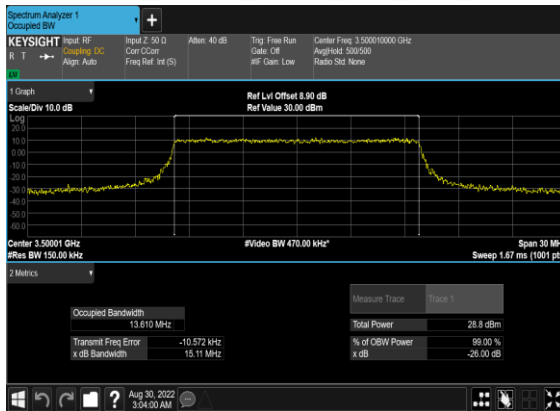
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BPSK_Outer_Full_Mid_CH



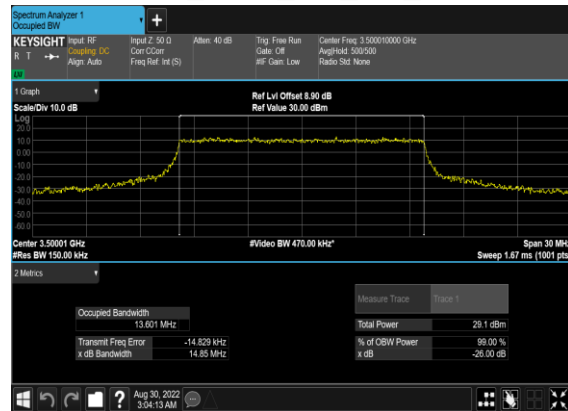
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OFDM_QPSK_Outer_Full_Mid_CH



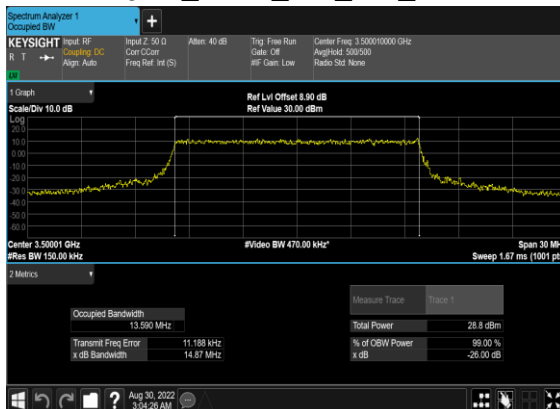
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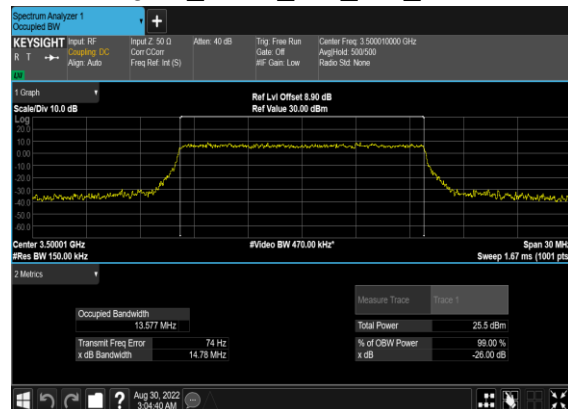
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QAM_Outer_Full_Mid_CH



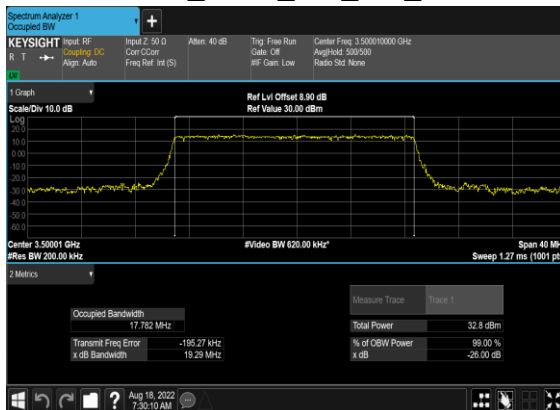
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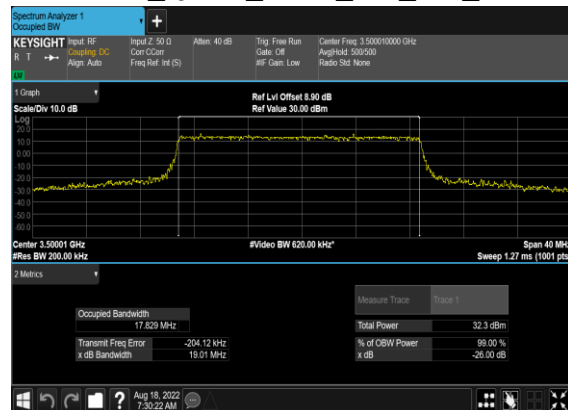
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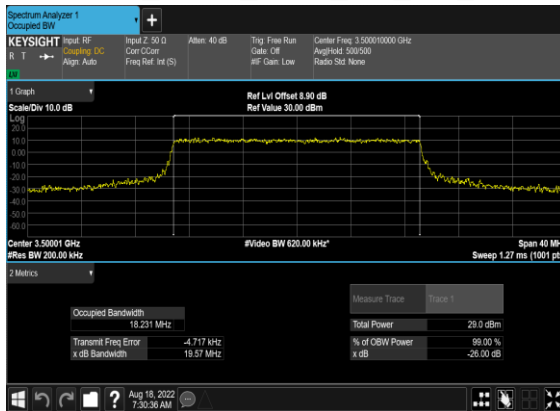
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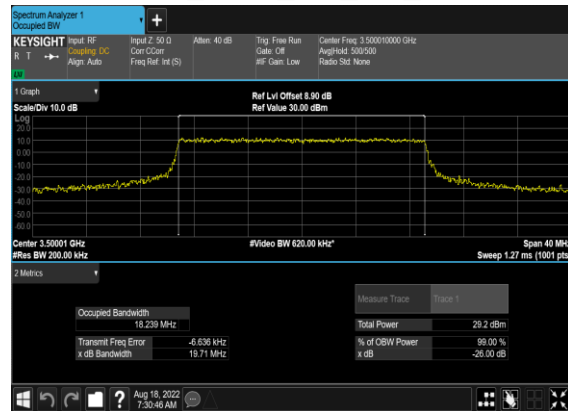
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OFDM_QPSK_Outer_Full_Mid_CH



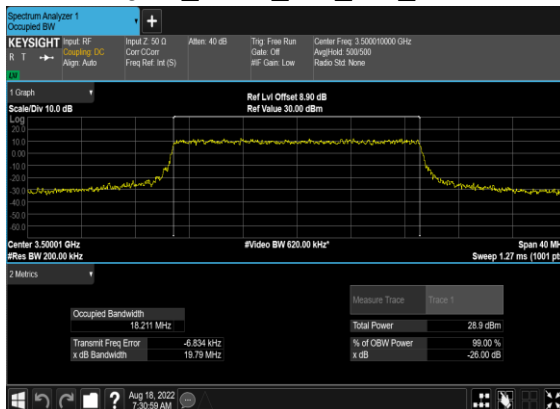
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OFDM_QPSK_Outer_Full_Mid_CH



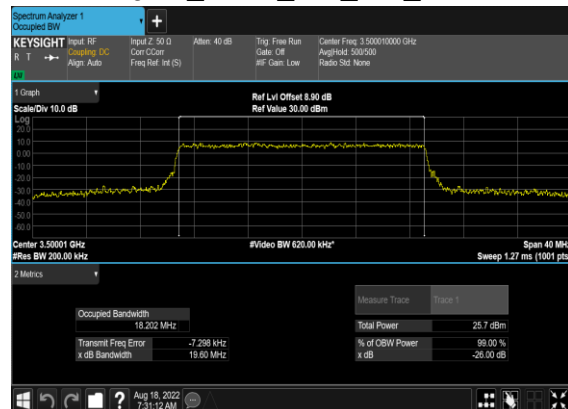
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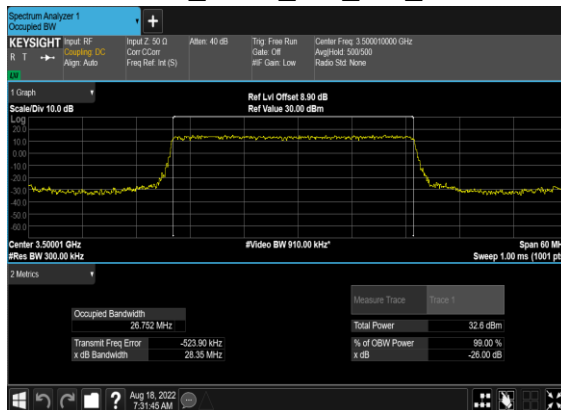
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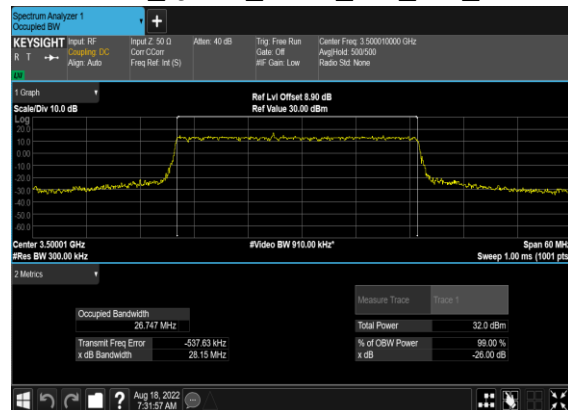
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QAM_Outer_Full_Mid_CH



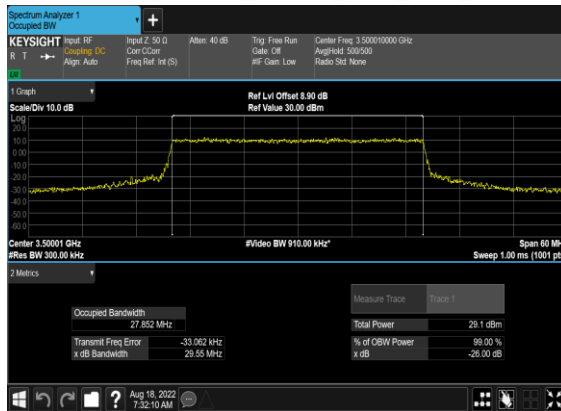
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BPSK_Outer_Full_Mid_CH



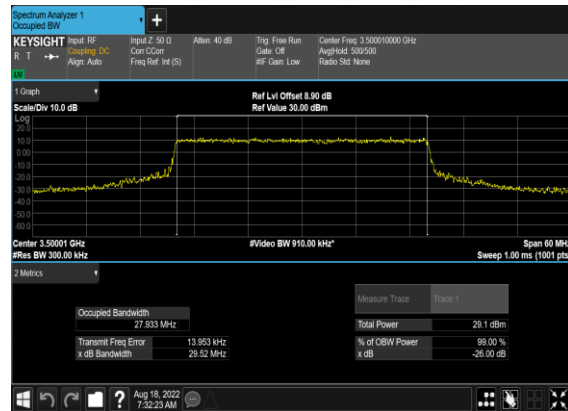
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OFDM_QPSK_Outer_Full_Mid_CH



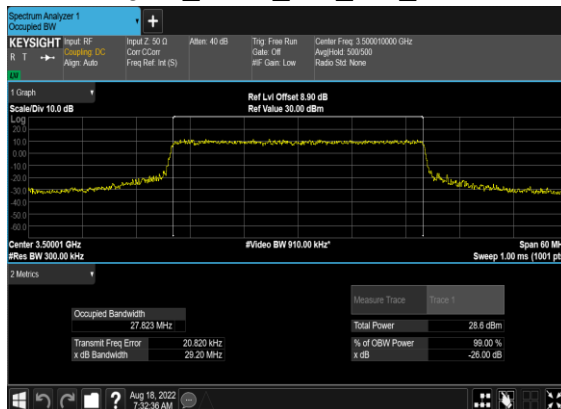
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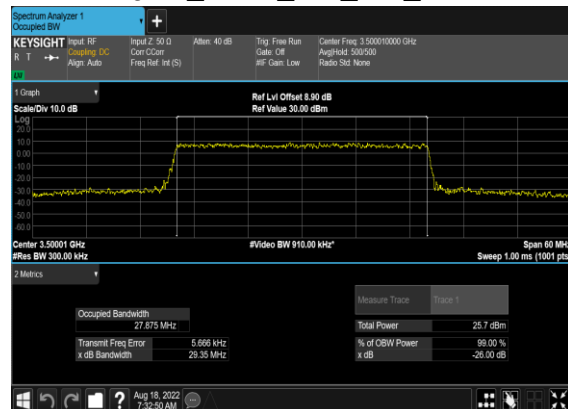
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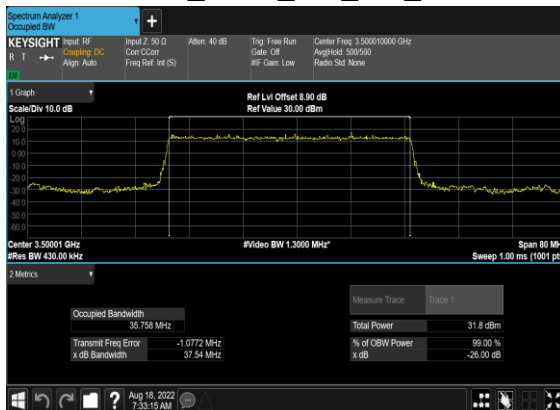
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QAM_Outer_Full_Mid_CH



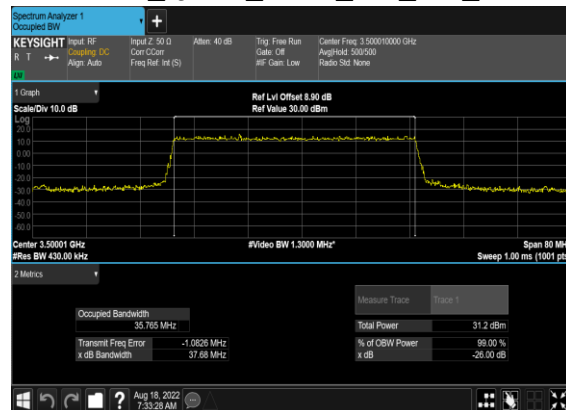
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QAM_Outer_Full_Mid_CH



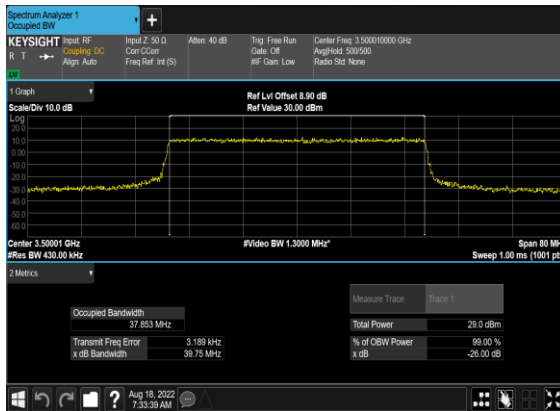
N78(40M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



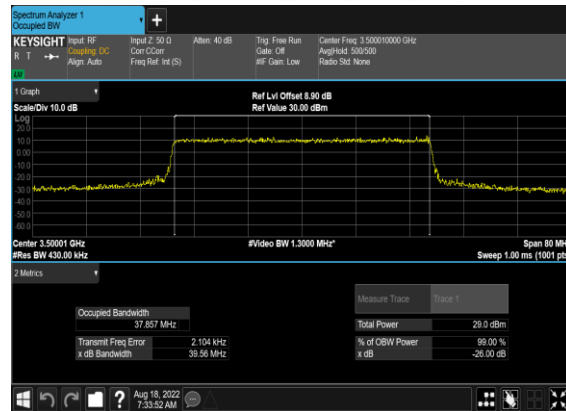
N78(40M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



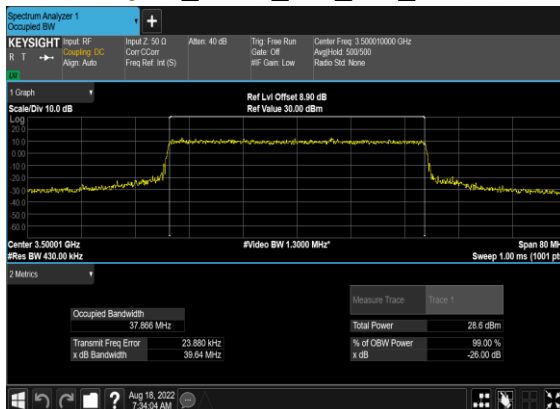
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OFDM_QPSK_Outer_Full_Mid_CH



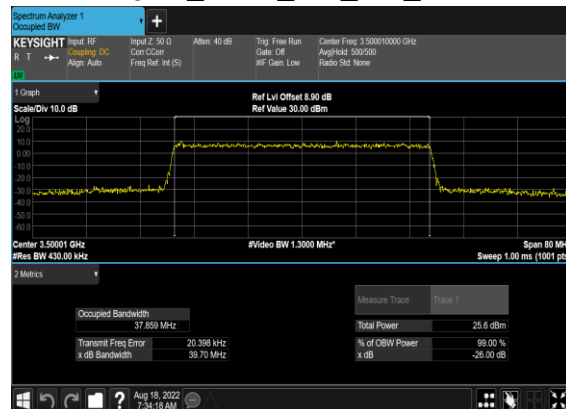
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QAM_Outer_Full_Mid_CH



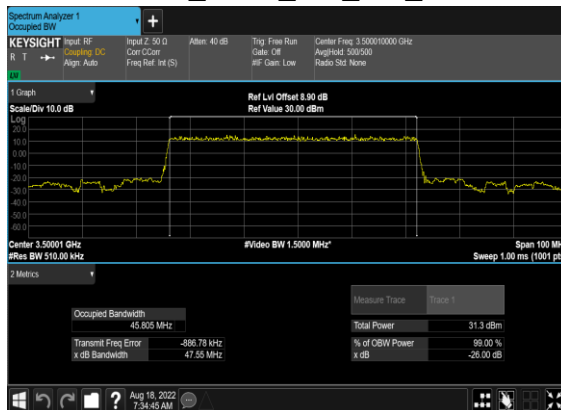
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QAM_Outer_Full_Mid_CH



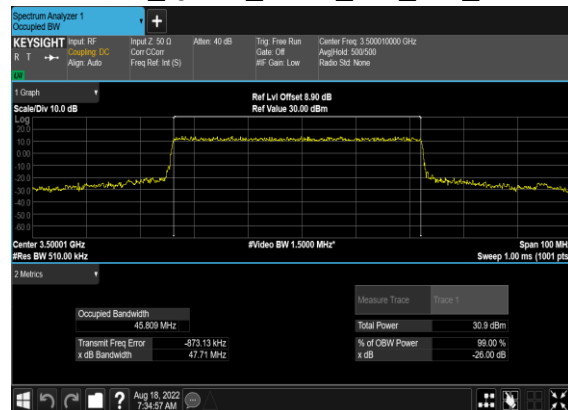
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QAM_Outer_Full_Mid_CH



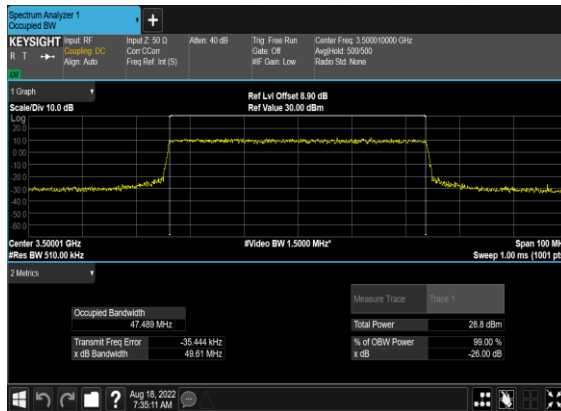
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BPSK_Outer_Full_Mid_CH



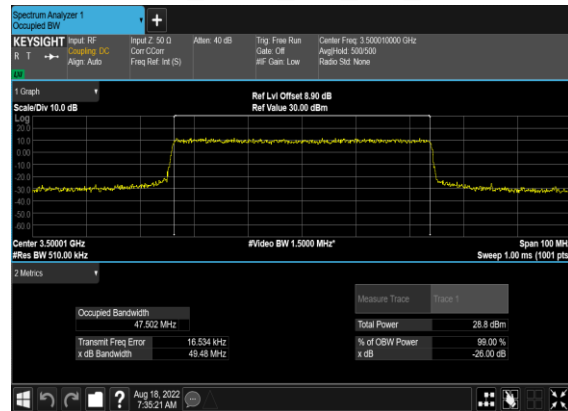
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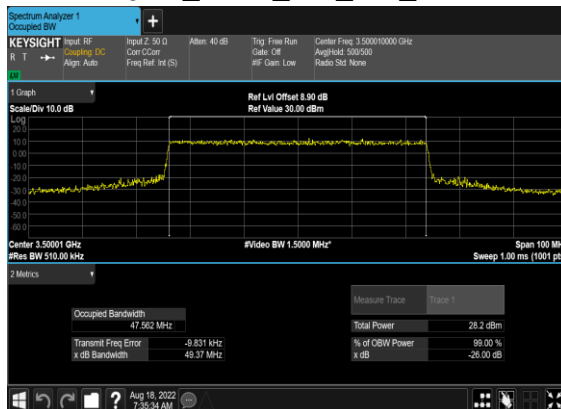
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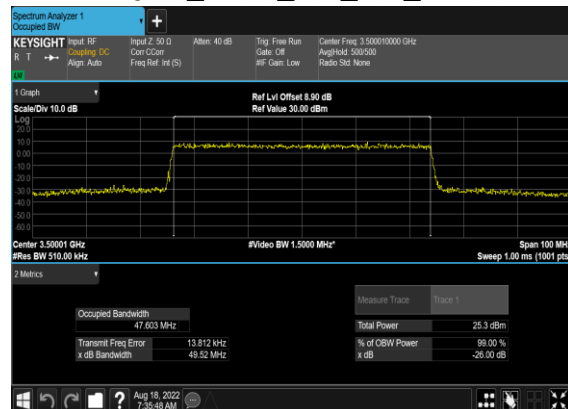
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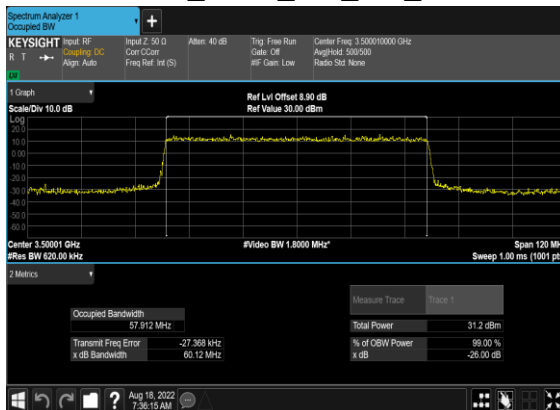
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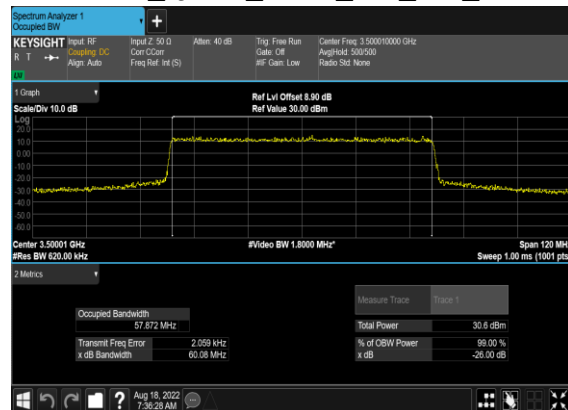
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QAM_Outer_Full_Mid_CH



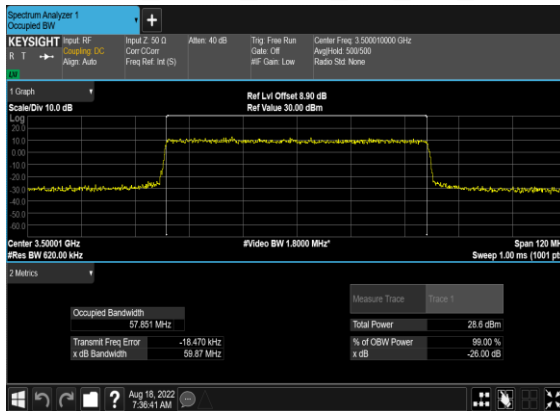
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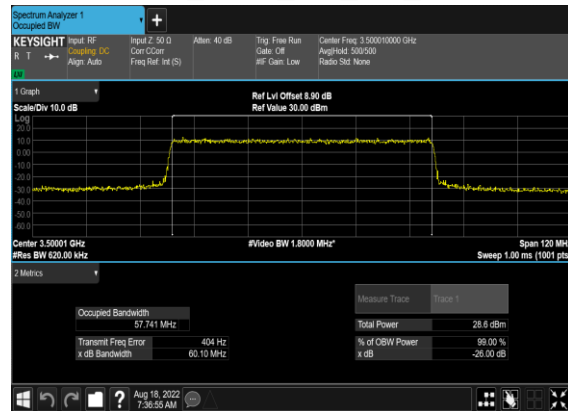
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OFDM_QPSK_Outer_Full_Mid_CH



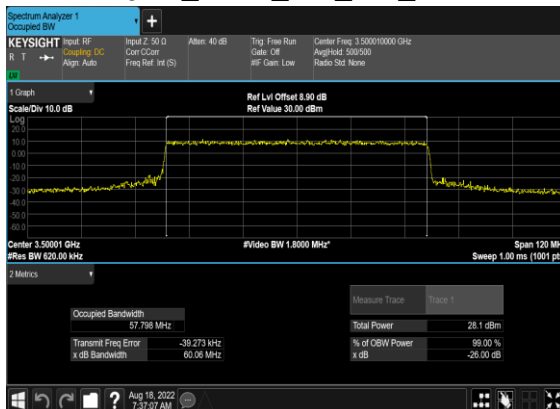
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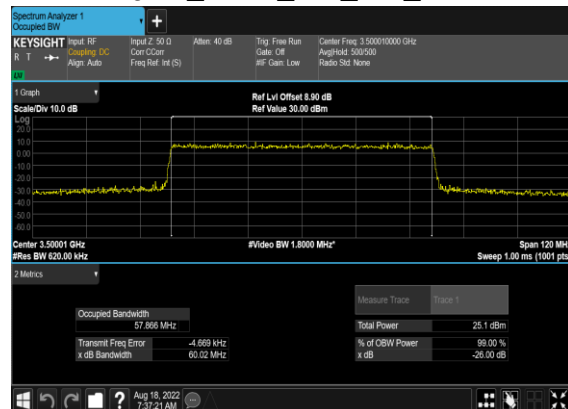
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QAM_Outer_Full_Mid_CH



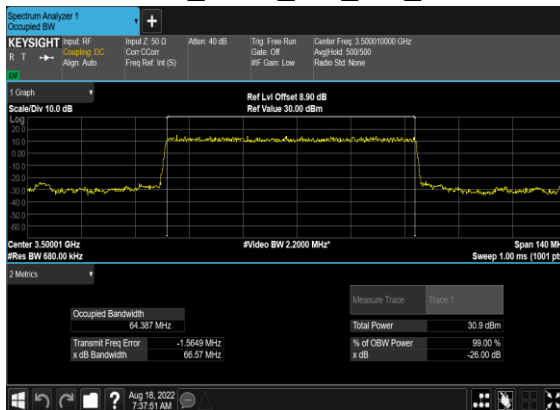
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QAM_Outer_Full_Mid_CH



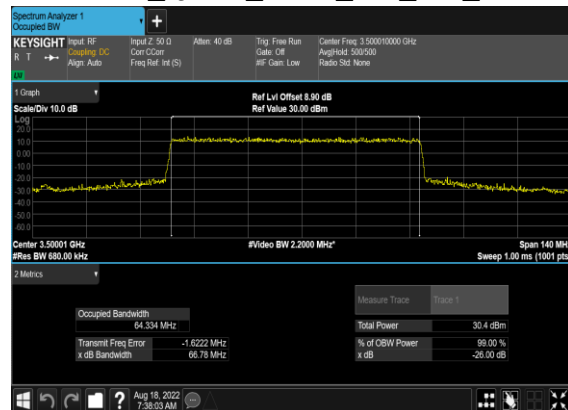
N78(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



N78(70M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



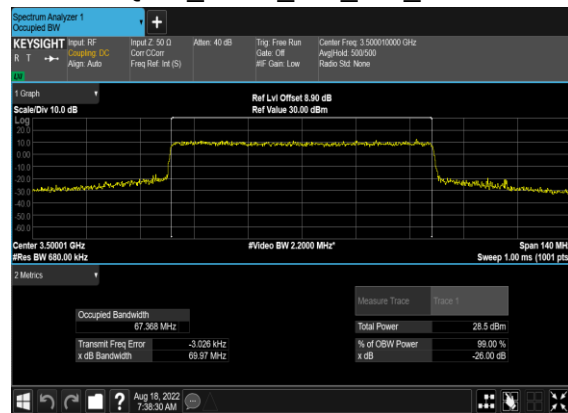
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OFDM_QPSK_Outer_Full_Mid_CH



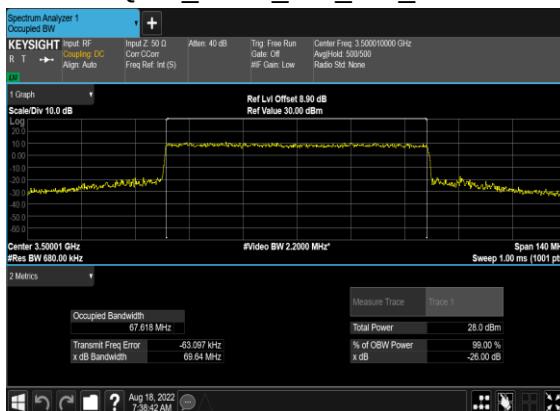
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OFDM_QPSK_Outer_Full_Mid_CH



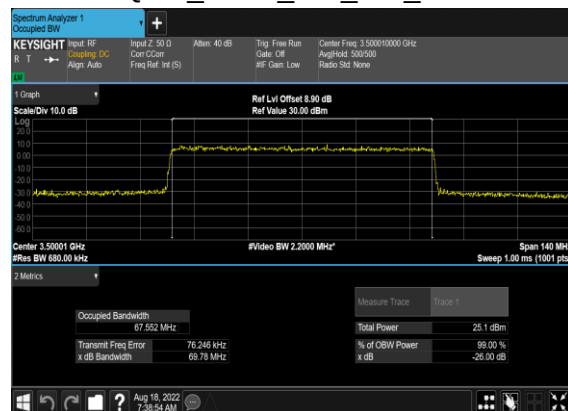
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QAM_Outer_Full_Mid_CH



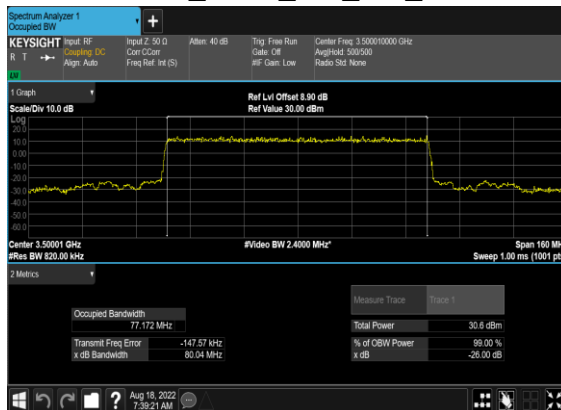
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QAM_Outer_Full_Mid_CH



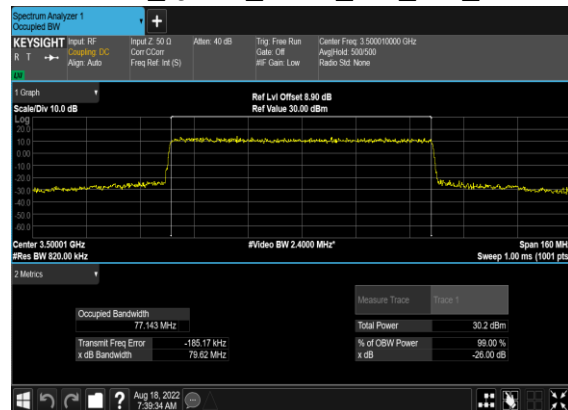
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QAM_Outer_Full_Mid_CH



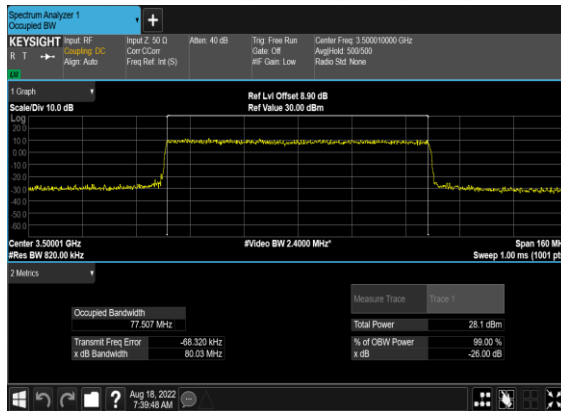
N78(80M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



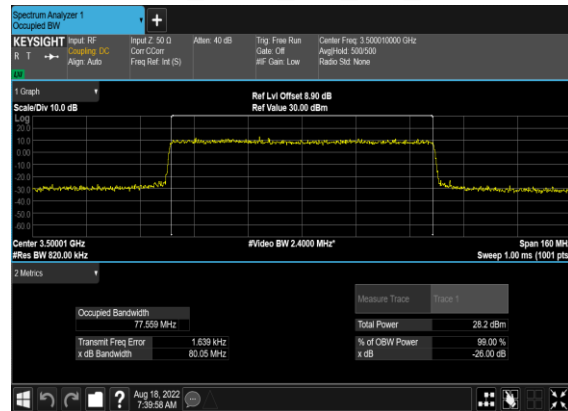
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OFDM_QPSK_Outer_Full_Mid_CH



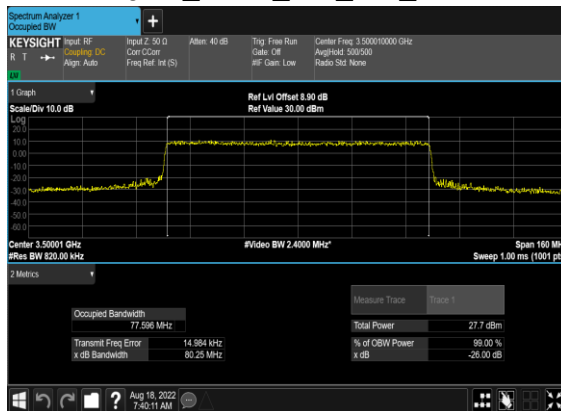
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OFDM_QPSK_Outer_Full_Mid_CH



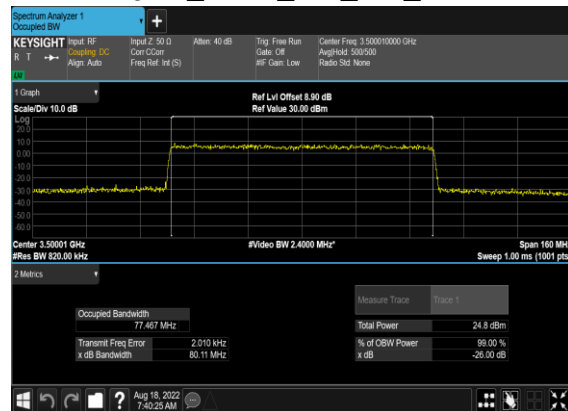
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QAM_Outer_Full_Mid_CH



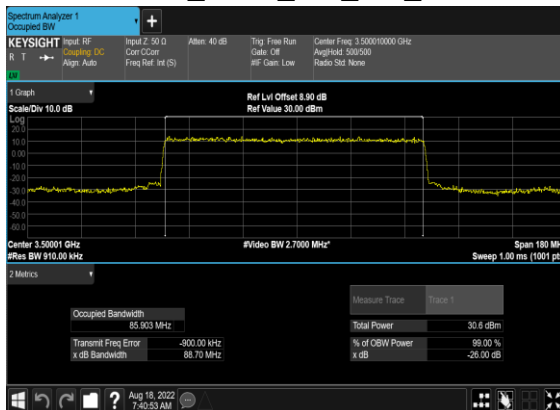
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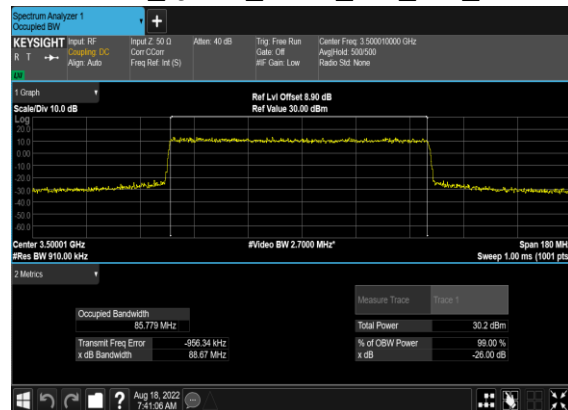
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QAM_Outer_Full_Mid_CH



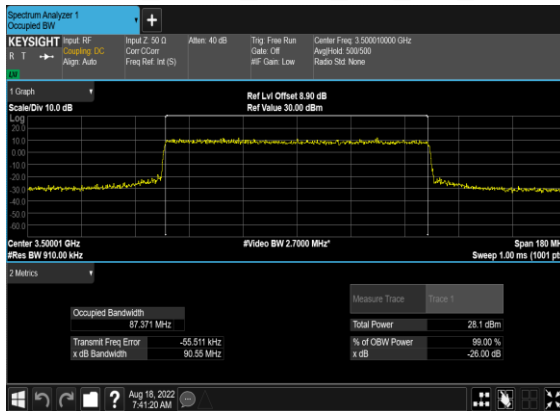
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BPSK_Outer_Full_Mid_CH



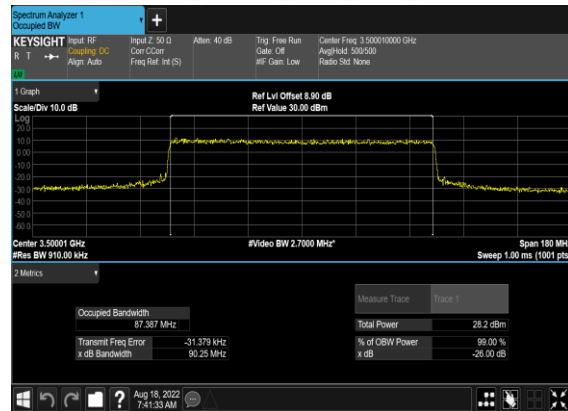
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OFDM_QPSK_Outer_Full_Mid_CH



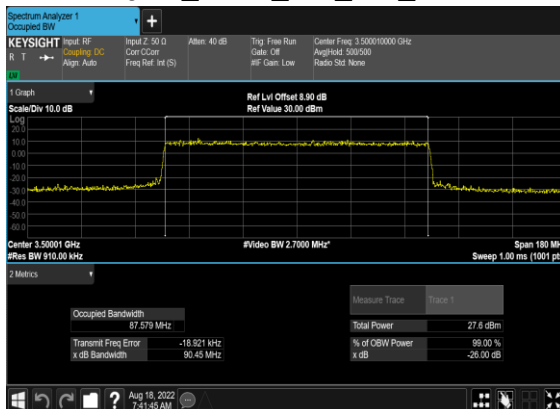
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OFDM_QPSK_Outer_Full_Mid_CH



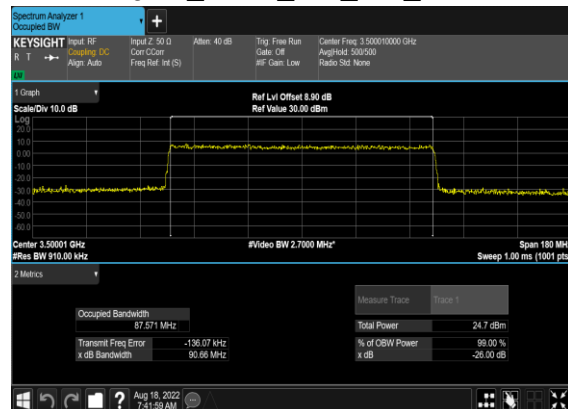
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QAM_Outer_Full_Mid_CH



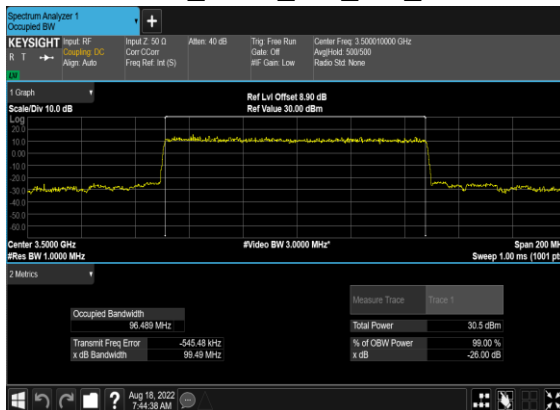
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QAM_Outer_Full_Mid_CH



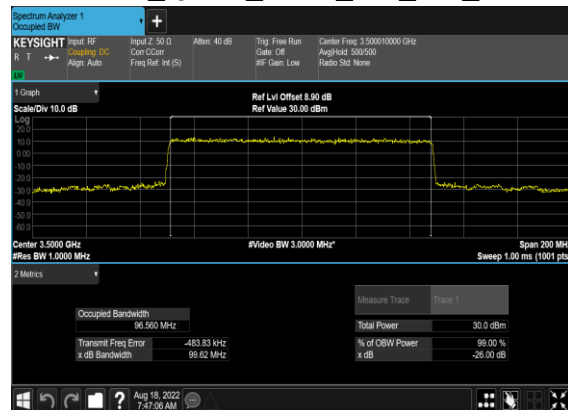
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QAM_Outer_Full_Mid_CH



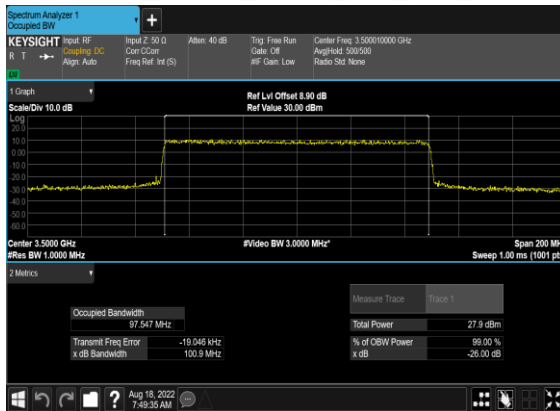
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BPSK_Outer_Full_Mid_CH



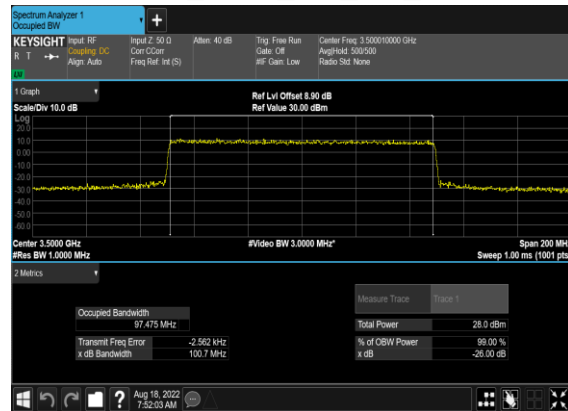
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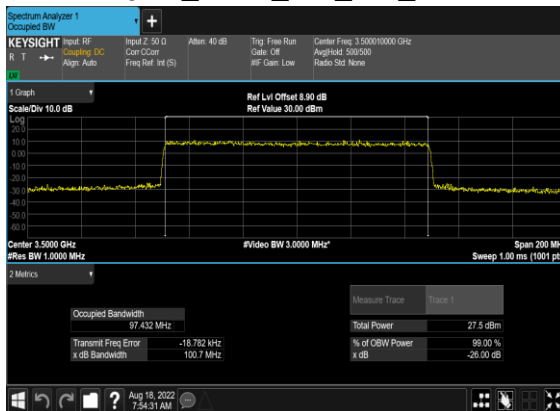
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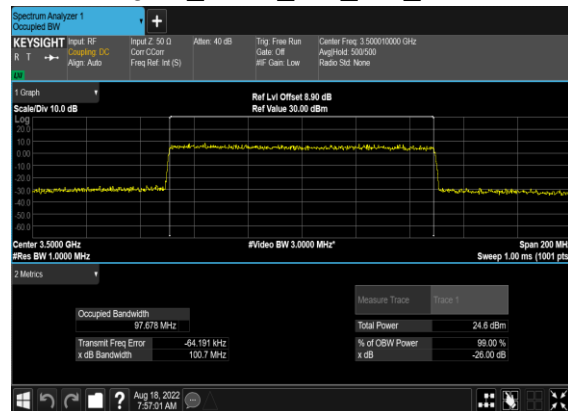
N78(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



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QAM_Outer_Full_Mid_CH



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QAM_Outer_Full_Mid_CH

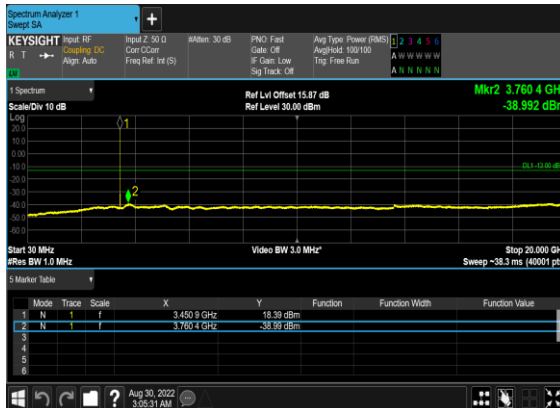


Conducted Spurious Emissions

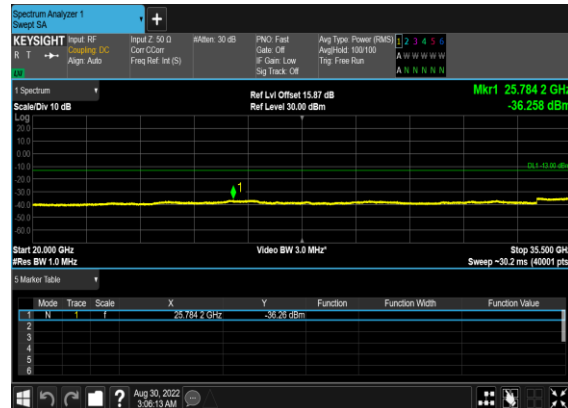
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	---

78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS

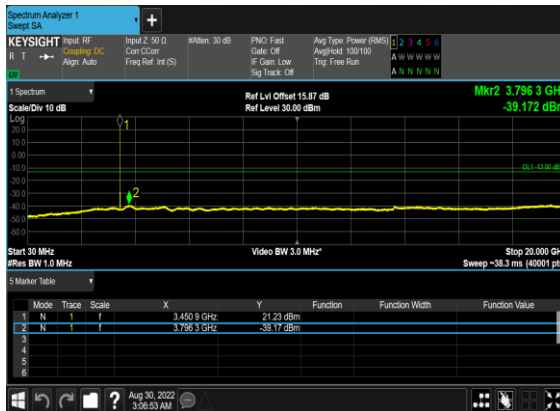
N78(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Low_CH



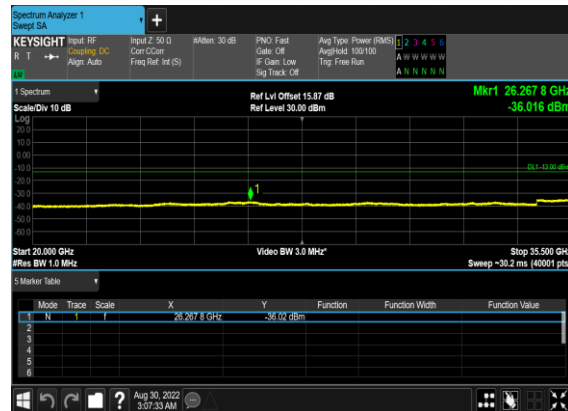
N78(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



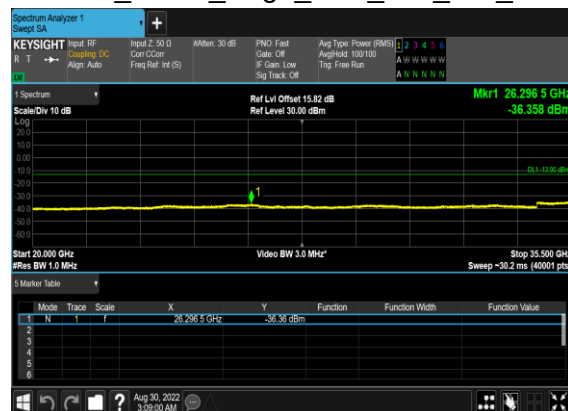
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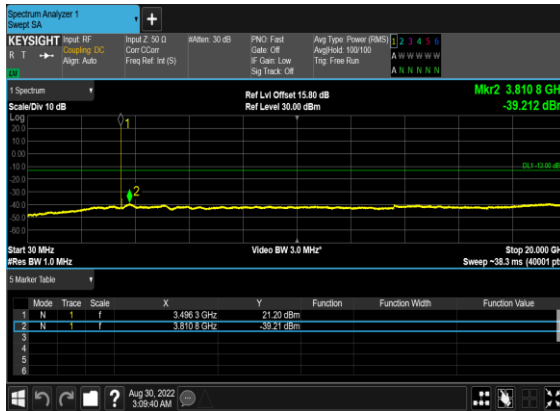
N78(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Mid_CH



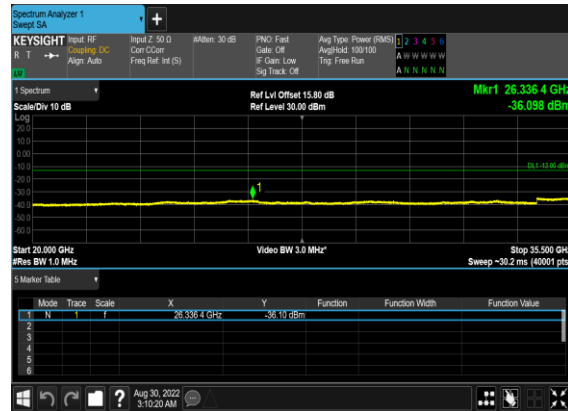
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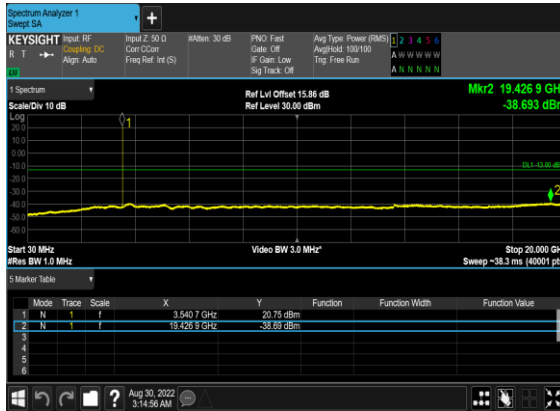
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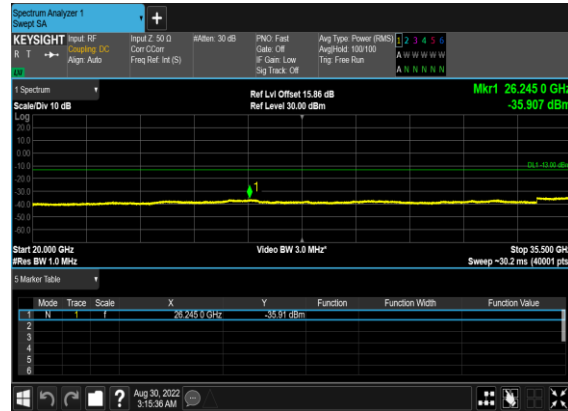
N78(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



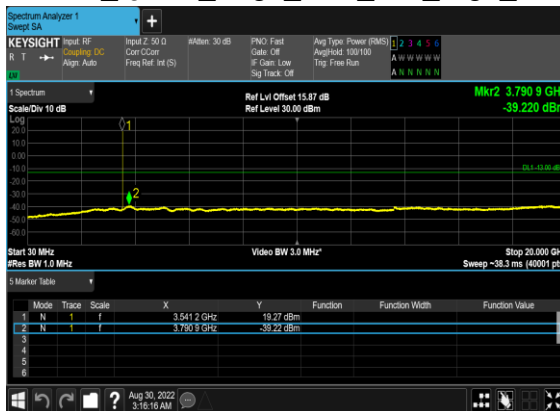
N78(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



N78(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



N78(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



N78(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH

