

FCC RF Test Report

APPLICANT : Rolling Wireless S.a r.l.
EQUIPMENT : 5G module
BRAND NAME : Rolling Wireless
MODEL NAME : RW350R-GL
FCC ID : 2AX2URW350RGL
STANDARD : 47 CFR Part 2, 96
CLASSIFICATION : Citizens Band End User Devices (CBE)
EQUIPMENT TYPE : End User Equipment
TEST DATE(S) : Mar. 30, 2024 ~ Jun. 07, 2024

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26 and shown compliance with the applicable technical standards.

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

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



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History of this test report

Report No.	Version	Description	Issued Date
FG430728Q	01	Initial issue of report	Jun. 13, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
-	§96.41	Peak-to-Average Ratio	Not Applicable	Not applicable for End User Devices
3.3	§96.41	Maximum E.I.R.P	Pass	-
		Maximum Power Spectral Density	Not Applicable	Not applicable for End User Devices
3.4	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §96.41	Conducted Band Edge Measurement Adjacent Channel Leakage Ratio	Pass	-
3.6	§2.1051 §96.41	Conducted Spurious Emission	Pass	
3.7	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 11.52 dB at 10728.520 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

Rolling Wireless S.a r.l.
8-10, rue Mathias Hardt 1717, Luxembourg

1.2 Manufacturer

Rolling Wireless S.a r.l.
8-10, rue Mathias Hardt 1717, Luxembourg

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	5G module
Brand Name	Rolling Wireless
Model Name	RW350R-GL
FCC ID	2AX2URW350RGL
Tx Frequency	5G NR n48: 3550 MHz ~ 3700 MHz
Rx Frequency	5G NR n48: 3550 MHz ~ 3700 MHz
SCS	15kHz,30kHz
Bandwidth	SCS 15kHz: 5MHz / 10MHz / 15MHz / 20MHz / 30MHz / 40MHz SCS 30kHz: 10MHz / 15MHz / 20MHz / 30MHz / 40MHz
Antenn Type	External Monopole Antenna or External PIFA Antenna
Antenna Gain	5G NR n48: 1.0 dBi
Type of Modulation	DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM)
IMEI Code	Conducted: 356413950001763 Radiation:356413950000872
HW Version	V1.1
SW Version	81601.0000.00.29.24.13
EUT Stage	Identical Prototype

Remark:

1. The device has two optional antennas, they are same antenna gain, RSE pretest the two antennas, choose worst antenna to perform final test and recorded in the report.
2. There are two samples under test, sample 1 is 1st source and sample 2 is 2nd source, the detailed differences could be referred to the RW350R-GL_Operational Description of Product Equality Declaration which is exhibit separately. According to the differences, sample 1 perform full test, sample 2 verify conducted power and found less than sample 1, and sample 2 additional verify the worst case of RSE.
3. 5G NR n48 support SCS 15kHz and 30kHz. According to the maximum power, SCS 15kHz was full test to cover SCS 30kHz.
4. 5G NR n48 support SA and NSA mode. The whole testing has assessed SA mode by referring to the higher conducted power, and full test NSA for 5M BW due to 5M BW only supported by NSA mode.
5. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
6. The EN-DC mode combination could be referred to the product spec.

1.4 Maximum Conducted Power and Emission Designator

5G NR n48 for SCS 15kHz SA		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
10	3555.00~3694.98	0.1253	9M25G7D	0.0933	9M29W7D
15	3557.52~3692.50	0.1303	14M1G7D	0.0979	14M2W7D
20	3560.01~3690.00	0.1282	18M9G7D	0.0951	18M9W7D
30	3564.99~3684.99	0.1247	28M6G7D	0.0933	28M6W7D
40	3570.00~3679.98	0.1306	38M5G7D	0.1035	38M6W7D

5G NR n48 for SCS 15kHz NSA		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5	3552.51~3697.50	0.1178	4M46G7D	0.0946	4M47W7D

1.5 Testing Site

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	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 Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH03-SZ	CN1256	421272

1.6 Test Software

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

1.7 Applied Standards

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

- ♦ ANSI C63.26-2015
- ♦ 47 CFR Part 2, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS v03
- ♦ 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

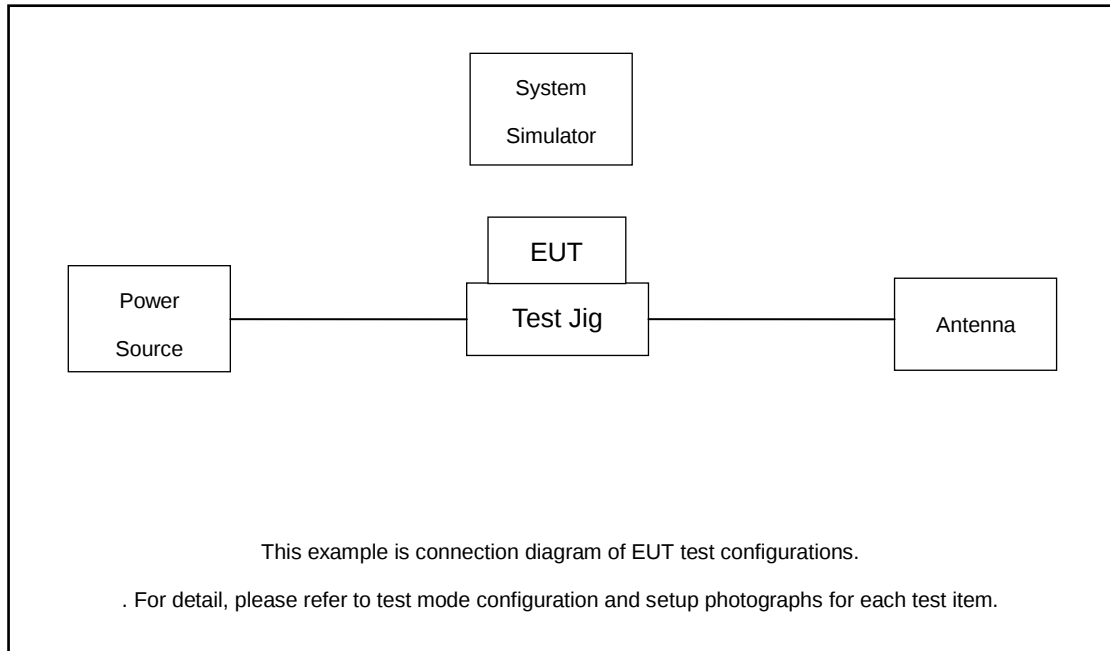
2.1 Test Mode

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.

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

Test Items	Band	Bandwidth (MHz)						Modulation					RB #		Test Channel		
		5	10	15	20	30	40	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H
Max. Output Power	n48	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	n48	v	v	v	v	v	v		v	v	v	v		v		v	
Adjacent Channel Leakage Ratio	n48	v	v	-	v	-	v	v	v				v	v	v	v	v
Conducted Band Edge	n48	v	v	-	v	-	v	v	v				v	v	v	v	v
Conducted Spurious Emission	n48	v	v	-	v	-	v	v	v				v		v	v	v
E.R.P / E.I.R.P	n48	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Frequency Stability	n48			-	v				v					v		v	
Radiated Spurious Emission	n48	Worst Case													v	v	v
Remark	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. All test items are based on engineering evaluation. 5. Frequency Stability: Normal Voltage = 3.30V ; Low Voltage =3.14V; High Voltage =4.40V																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW INSTEK	GPD-3030D	N/A	N/A	Unshielded, 1.8 m
2.	Base Station	Anritsu	MT8821C	Fcc DoC	N/A	Shielded, 1.5m
3.	Base Station	Anritsu	MT8000A	Fcc DoC	N/A	Shielded, 1.5m
4.	Antenna	N/A	N/A	N/A	N/A	N/A
5.	Adapter	N/A	N/A	N/A	N/A	N/A
6.	Test Jig	N/A	N/A	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 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.

Offset = RF cable loss.

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

Example :

Offset(dB) = RF cable loss(dB)= 8.9(dB)

2.5 Frequency List of Low/Middle/High Channels

5G NR n48 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	638000	641666	645332
	Frequency	3570	3624.99	3679.98
30	Channel	637666	641666	645666
	Frequency	3564.99	3624.99	3684.99
20	Channel	637334	641666	646000
	Frequency	3560.01	3624.99	3690
15	Channel	637168	641666	646166
	Frequency	3557.52	3624.99	3692.49
10	Channel	637000	641666	646332
	Frequency	3555	3624.99	3694.98
5	Channel	636834	641666	646500
	Frequency	3552.51	3624.99	3697.5

Note: Only SCS 15K NSA mode supports BW 5MHz.

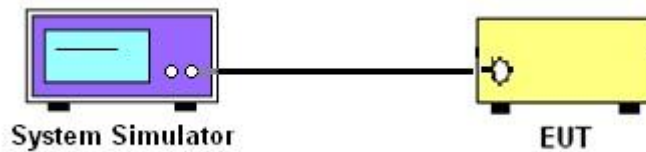
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power / ACLR



3.1.3 Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power 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.

3.2.2 Test Procedures

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

3.3 EIRP

3.3.1 Description of the EIRP Measurement

EIRP limits for CBRS equipment as below table:

Device		Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
Applied	End User Device	23	n/a
☐	Category A CBSD	30	20
☐	Category B CBSD	47	37

Remark: The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for LTE Band 48 (i.e. 5, 10, 15, 20MHz)

3.3.2 Test Procedures for EIRP

1. Establishing a communications link with the call box (Base station) to measure the Maximum conducted power, the parameters were set to force the EUT transmitting at maximum output power level. Use the average power measurement function to measure total channel power of each channel bandwidth (per ANSI C63.26-2015 Section 5.2.1)
2. Determining ERP and/or EIRP from conducted RF output power measurements (Per ANSI C63.26-2015 Section 5.2.5.5)

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, 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 Occupied Bandwidth

3.4.1 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.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

Part 96.41 (e) (1) (ii)

For End User Devices the emission limits outside the fundamental are as follows:

Within 0 MHz to B MHz above and below the assigned channel ≤ -13 dBm/MHz

Greater than B MHz above and below the assigned channel ≤ -25 dBm/MHz

where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device.

Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

Part 96.41 (e) (2)

For CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
5. Offset has included the duty factor for LTE Band 48. Duty factor $=10 \log (1/x)$, where x is the measured duty cycle.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is -40dBm/MHz.

3.7 Frequency Stability

3.7.1 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

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. 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.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

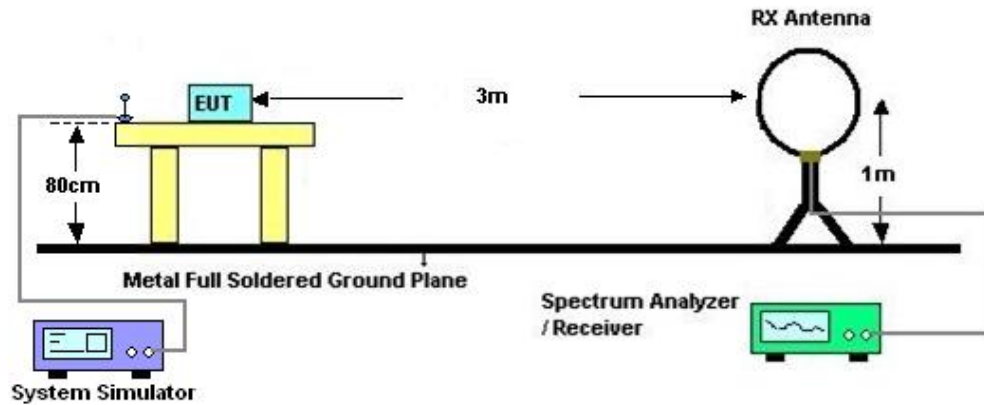
4 Radiated Test Items

4.1 Measuring Instruments

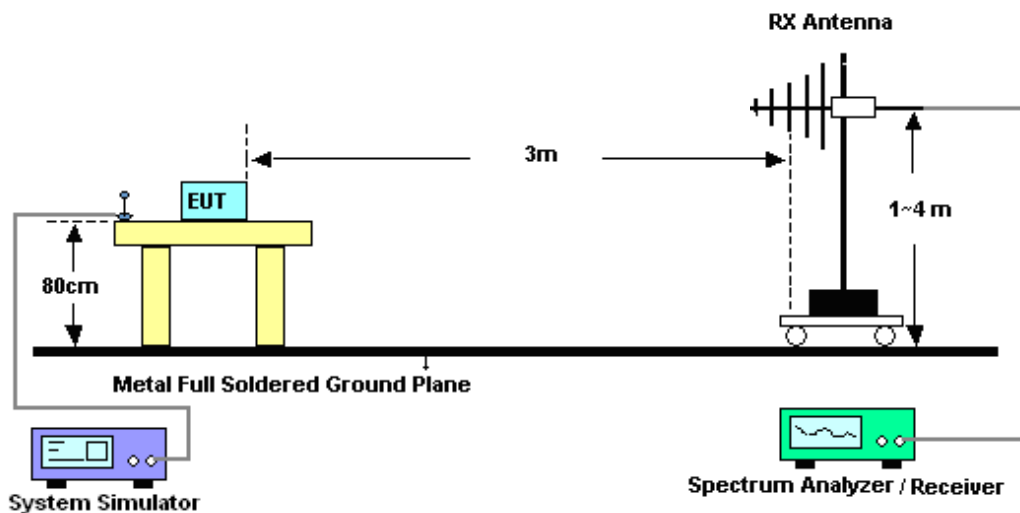
See list of measuring instruments of this test report.

4.2 Test Setup

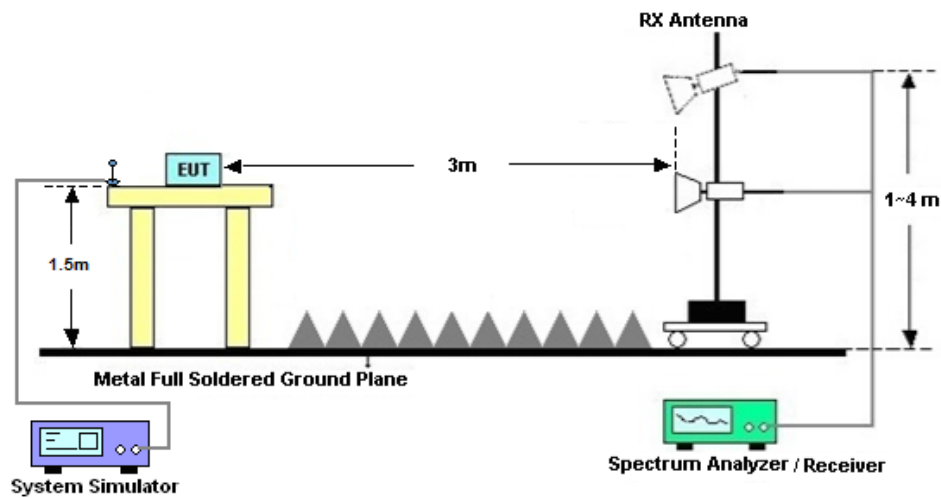
4.2.1 For radiated test below 30MHz



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 Measurement

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 -40dBm / MHz.

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

4.4.2 Test Procedures

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

The limit line is -40dBm/MHz



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 10, 2023	Mar. 30, 2024~ Jun. 07, 2024	Apr. 09, 2024	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024		Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-042 65	60.06.020. 0077	0.4GHz~26.5G Hz	Dec. 25, 2023	Mar. 30, 2024~ Jun. 07, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081 803	-40~+150°C	Jul. 05, 2023	Mar. 30, 2024~ Jun. 07, 2024	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY544500 83	20Hz~8.4GHz	Apr. 09, 2024	Apr. 29, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY551502 46	10Hz~44GHz;	Apr. 09, 2024	Apr. 29, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Apr. 29, 2024	Jun. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 20, 2023	Apr. 29, 2024	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBEC K	BBHA9120D	9120D-135 5	1GHz~18GHz	Apr. 09, 2024	Apr. 29, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 09, 2024	Apr. 29, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Apr. 29, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz	Jul. 07, 2023	Apr. 29, 2024	Jul.06, 2024	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY395013 02	500MHz~26.5G Hz	Dec. 27, 2023	Apr. 29, 2024	Dec. 26, 2024	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002 729	N/A	Oct. 18, 2023	Apr. 29, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 29, 2024	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 29, 2024	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Conducted Power Density	± 1.32 dB
Peak to Average Ratio	± 1.34 dB
Frequency Stability	± 1.3 Hz

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.0dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.6dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

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



Appendix A. Test Results of Conducted Test

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

FR1 N48-SCS15K

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=1dBi

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
48	15	10	637000	3555	DFT-s-OFDM QPSK	1@1	20.98	21.98	0.1578
48	15	10	637000	3555	DFT-s-OFDM 16 QAM	1@1	19.7	20.7	0.1175
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.66	21.66	0.1466
48	15	10	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.45	20.45	0.1109
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@1	20.84	21.84	0.1528
48	15	10	646332	3694.98	DFT-s-OFDM 16 QAM	1@1	19.67	20.67	0.1167
48	15	15	637168	3557.52	DFT-s-OFDM QPSK	1@1	21.15	22.15	0.1641
48	15	15	637168	3557.52	DFT-s-OFDM 16 QAM	1@1	19.91	20.91	0.1233
48	15	15	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.77	21.77	0.1503
48	15	15	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.57	20.57	0.1140
48	15	15	646166	3692.49	DFT-s-OFDM QPSK	1@1	20.96	21.96	0.1570
48	15	15	646166	3692.49	DFT-s-OFDM 16 QAM	1@1	19.71	20.71	0.1178
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@1	21.08	22.08	0.1614
48	15	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@1	19.78	20.78	0.1197
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.77	21.77	0.1503
48	15	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.47	20.47	0.1114
48	15	20	646000	3690	DFT-s-OFDM QPSK	1@1	20.89	21.89	0.1545
48	15	20	646000	3690	DFT-s-OFDM 16 QAM	1@1	19.58	20.58	0.1143
48	15	30	637668	3565.02	DFT-s-OFDM QPSK	1@1	20.96	21.96	0.1570
48	15	30	637668	3565.02	DFT-s-OFDM 16 QAM	1@1	19.7	20.7	0.1175
48	15	30	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.77	21.77	0.1503
48	15	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.46	20.46	0.1112
48	15	30	645666	3684.99	DFT-s-OFDM QPSK	1@1	20.85	21.85	0.1531
48	15	30	645666	3684.99	DFT-s-OFDM 16 QAM	1@1	19.6	20.6	0.1148
48	15	40	638000	3570	DFT-s-OFDM PI/2 BPSK	108@54	21.12	22.12	0.1629
48	15	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@1	21.13	22.13	0.1633
48	15	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@214	20.93	21.93	0.1560
48	15	40	638000	3570	DFT-s-OFDM QPSK	108@54	21.16	22.16	0.1644
48	15	40	638000	3570	DFT-s-OFDM QPSK	1@1	21.13	22.13	0.1633
48	15	40	638000	3570	DFT-s-OFDM QPSK	1@214	20.95	21.95	0.1567
48	15	40	638000	3570	DFT-s-OFDM 16 QAM	108@54	20.15	21.15	0.1303
48	15	40	638000	3570	DFT-s-OFDM 16 QAM	1@1	19.94	20.94	0.1242
48	15	40	638000	3570	DFT-s-OFDM 16 QAM	1@214	19.78	20.78	0.1197
48	15	40	638000	3570	DFT-s-OFDM 64 QAM	108@54	18.64	19.64	0.0920
48	15	40	638000	3570	DFT-s-OFDM 64 QAM	1@1	18.63	19.63	0.0918
48	15	40	638000	3570	DFT-s-OFDM 64 QAM	1@214	18.42	19.42	0.0875
48	15	40	638000	3570	DFT-s-OFDM 256 QAM	108@54	16.59	17.59	0.0574

48	15	40	638000	3570	DFT-s-OFDM 256 QAM	1@1	16.27	17.27	0.0533
48	15	40	638000	3570	DFT-s-OFDM 256 QAM	1@214	16.03	17.03	0.0505
48	15	40	638000	3570	CP-OFDM QPSK	108@54	19.64	20.64	0.1159
48	15	40	638000	3570	CP-OFDM QPSK	1@1	19.68	20.68	0.1169
48	15	40	638000	3570	CP-OFDM QPSK	1@214	19.43	20.43	0.1104
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	108@54	21.06	22.06	0.1607
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	21.05	22.05	0.1603
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@214	20.7	21.7	0.1479
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	108@54	21.08	22.08	0.1614
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@1	21.06	22.06	0.1607
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@214	20.72	21.72	0.1486
48	15	40	641666	3624.99	DFT-s-OFDM 16 QAM	108@54	20.09	21.09	0.1285
48	15	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.87	20.87	0.1222
48	15	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@214	19.53	20.53	0.1130
48	15	40	641666	3624.99	DFT-s-OFDM 64 QAM	108@54	18.53	19.53	0.0897
48	15	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	18.49	19.49	0.0889
48	15	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@214	18.11	19.11	0.0815
48	15	40	641666	3624.99	DFT-s-OFDM 256 QAM	108@54	16.52	17.52	0.0565
48	15	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	16.15	17.15	0.0519
48	15	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@214	15.81	16.81	0.0480
48	15	40	641666	3624.99	CP-OFDM QPSK	108@54	19.56	20.56	0.1138
48	15	40	641666	3624.99	CP-OFDM QPSK	1@1	19.54	20.54	0.1132
48	15	40	641666	3624.99	CP-OFDM QPSK	1@214	19.28	20.28	0.1067
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	108@54	21.04	22.04	0.1600
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@1	20.85	21.85	0.1531
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@214	20.87	21.87	0.1538
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	108@54	21.08	22.08	0.1614
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@1	20.93	21.93	0.1560
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@214	20.94	21.94	0.1563
48	15	40	645332	3679.98	DFT-s-OFDM 16 QAM	108@54	20.09	21.09	0.1285
48	15	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@1	19.81	20.81	0.1205
48	15	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@214	19.74	20.74	0.1186
48	15	40	645332	3679.98	DFT-s-OFDM 64 QAM	108@54	18.54	19.54	0.0899
48	15	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@1	18.32	19.32	0.0855
48	15	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@214	18.21	19.21	0.0834
48	15	40	645332	3679.98	DFT-s-OFDM 256 QAM	108@54	16.49	17.49	0.0561
48	15	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@1	16.05	17.05	0.0507
48	15	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@214	15.97	16.97	0.0498
48	15	40	645332	3679.98	CP-OFDM QPSK	108@54	19.54	20.54	0.1132
48	15	40	645332	3679.98	CP-OFDM QPSK	1@1	19.51	20.51	0.1125
48	15	40	645332	3679.98	CP-OFDM QPSK	1@214	19.43	20.43	0.1104

FR1 N48-SCS30K

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=1dBi

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
48	30	10	637000	3555	DFT-s-OFDM QPSK	1@1	20.77	21.77	0.1503
48	30	10	637000	3555	DFT-s-OFDM 16 QAM	1@1	19.7	20.7	0.1175
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.81	21.81	0.1517
48	30	10	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.68	20.68	0.1169
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@1	20.76	21.76	0.1500
48	30	10	646332	3694.98	DFT-s-OFDM 16 QAM	1@1	19.59	20.59	0.1146
48	30	15	637168	3557.52	DFT-s-OFDM QPSK	1@1	20.78	21.78	0.1507
48	30	15	637168	3557.52	DFT-s-OFDM 16 QAM	1@1	19.77	20.77	0.1194
48	30	15	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.79	21.79	0.1510
48	30	15	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.75	20.75	0.1189
48	30	15	646166	3692.49	DFT-s-OFDM QPSK	1@1	20.67	21.67	0.1469
48	30	15	646166	3692.49	DFT-s-OFDM 16 QAM	1@1	19.64	20.64	0.1159
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@1	20.72	21.72	0.1486
48	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@1	19.72	20.72	0.1180
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.74	21.74	0.1493
48	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.59	20.59	0.1146
48	30	20	646000	3690	DFT-s-OFDM QPSK	1@1	20.61	21.61	0.1449
48	30	20	646000	3690	DFT-s-OFDM 16 QAM	1@1	19.51	20.51	0.1125
48	30	30	637668	3565.02	DFT-s-OFDM QPSK	1@1	20.73	21.73	0.1489
48	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	1@1	19.64	20.64	0.1159
48	30	30	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.69	21.69	0.1476
48	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.6	20.6	0.1148
48	30	30	645666	3684.99	DFT-s-OFDM QPSK	1@1	20.62	21.62	0.1452
48	30	30	645666	3684.99	DFT-s-OFDM 16 QAM	1@1	19.54	20.54	0.1132
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	50@25	20.99	21.99	0.1581
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@1	20.66	21.66	0.1466
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@104	20.21	21.21	0.1321
48	30	40	638000	3570	DFT-s-OFDM QPSK	50@25	21	22	0.1585
48	30	40	638000	3570	DFT-s-OFDM QPSK	1@1	20.67	21.67	0.1469
48	30	40	638000	3570	DFT-s-OFDM QPSK	1@104	20.23	21.23	0.1327
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	50@25	20.01	21.01	0.1262
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@1	19.61	20.61	0.1151
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@104	19.18	20.18	0.1042
48	30	40	638000	3570	DFT-s-OFDM 64 QAM	50@25	18.5	19.5	0.0891
48	30	40	638000	3570	DFT-s-OFDM 64 QAM	1@1	18.37	19.37	0.0865
48	30	40	638000	3570	DFT-s-OFDM 64 QAM	1@104	17.95	18.95	0.0785
48	30	40	638000	3570	DFT-s-OFDM 256 QAM	50@25	16.47	17.47	0.0558

48	30	40	638000	3570	DFT-s-OFDM 256 QAM	1@1	16.23	17.23	0.0528
48	30	40	638000	3570	DFT-s-OFDM 256 QAM	1@104	15.76	16.76	0.0474
48	30	40	638000	3570	CP-OFDM QPSK	53@26	19.48	20.48	0.1117
48	30	40	638000	3570	CP-OFDM QPSK	1@1	19.23	20.23	0.1054
48	30	40	638000	3570	CP-OFDM QPSK	1@104	18.8	19.8	0.0955
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@25	20.98	21.98	0.1578
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	20.57	21.57	0.1435
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@104	20.17	21.17	0.1309
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	50@25	20.99	21.99	0.1581
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.58	21.58	0.1439
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@104	20.18	21.18	0.1312
48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	50@25	19.96	20.96	0.1247
48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.46	20.46	0.1112
48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@104	19.11	20.11	0.1026
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	50@25	18.42	19.42	0.0875
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	18.31	19.31	0.0853
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@104	17.81	18.81	0.0760
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	50@25	16.38	17.38	0.0547
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	16.07	17.07	0.0509
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@104	15.66	16.66	0.0463
48	30	40	641666	3624.99	CP-OFDM QPSK	53@26	19.4	20.4	0.1096
48	30	40	641666	3624.99	CP-OFDM QPSK	1@1	19.13	20.13	0.1030
48	30	40	641666	3624.99	CP-OFDM QPSK	1@104	18.75	19.75	0.0944
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	50@25	20.97	21.97	0.1574
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@1	20.79	21.79	0.1510
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@104	20.31	21.31	0.1352
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	50@25	20.99	21.99	0.1581
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@1	20.79	21.79	0.1510
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@104	20.3	21.3	0.1349
48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	50@25	19.98	20.98	0.1253
48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@1	19.67	20.67	0.1167
48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@104	19.26	20.26	0.1062
48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	50@25	18.44	19.44	0.0879
48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@1	18.51	19.51	0.0893
48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@104	18.01	19.01	0.0796
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	50@25	16.43	17.43	0.0553
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@1	16.27	17.27	0.0533
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@104	15.82	16.82	0.0481
48	30	40	645332	3679.98	CP-OFDM QPSK	53@26	19.43	20.43	0.1104
48	30	40	645332	3679.98	CP-OFDM QPSK	1@1	19.32	20.32	0.1076
48	30	40	645332	3679.98	CP-OFDM QPSK	1@104	18.85	19.85	0.0966

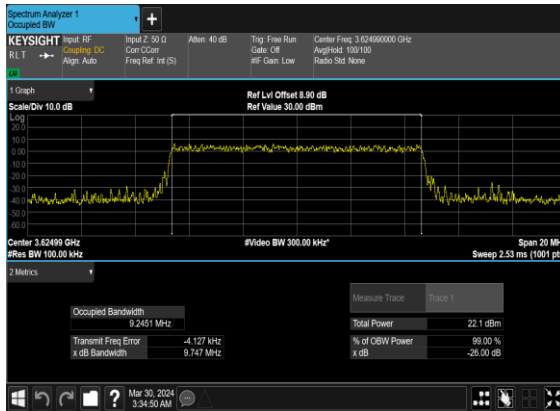
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0047	PASS	NV
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0066	PASS	LV
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0069	PASS	HV
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0025	PASS	-30°C
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0039	PASS	-20°C
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0050	PASS	-10°C
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0021	PASS	0°C
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0054	PASS	10°C
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0047	PASS	20°C
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0032	PASS	30°C
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0048	PASS	40°C
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0028	PASS	50°C

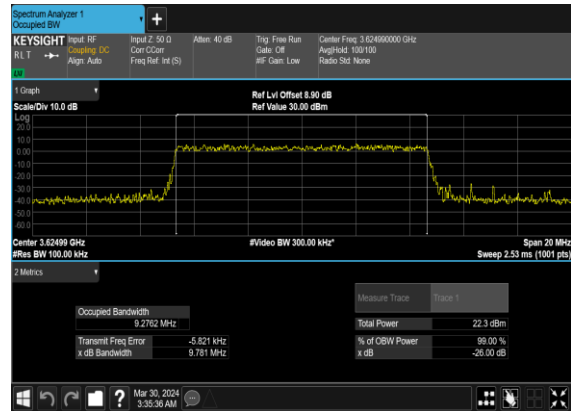
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
48	15	10	641666	3624.99	CP-OFDM QPSK	52@0	9.2451	9.747
48	15	10	641666	3624.99	CP-OFDM 16 QAM	52@0	9.2762	9.781
48	15	10	641666	3624.99	CP-OFDM 64 QAM	52@0	9.2753	9.709
48	15	10	641666	3624.99	CP-OFDM 256 QAM	52@0	9.2941	9.595
48	15	15	641666	3624.99	CP-OFDM QPSK	79@0	14.108	14.64
48	15	15	641666	3624.99	CP-OFDM 16 QAM	79@0	14.082	14.79
48	15	15	641666	3624.99	CP-OFDM 64 QAM	79@0	14.092	14.69
48	15	15	641666	3624.99	CP-OFDM 256 QAM	79@0	14.152	14.66
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	18.925	19.7
48	15	20	641666	3624.99	CP-OFDM 16 QAM	106@0	18.89	19.51
48	15	20	641666	3624.99	CP-OFDM 64 QAM	106@0	18.892	19.77
48	15	20	641666	3624.99	CP-OFDM 256 QAM	106@0	18.866	19.53
48	15	30	641666	3624.99	CP-OFDM QPSK	160@0	28.588	29.48
48	15	30	641666	3624.99	CP-OFDM 16 QAM	160@0	28.585	29.48
48	15	30	641666	3624.99	CP-OFDM 64 QAM	160@0	28.564	29.56
48	15	30	641666	3624.99	CP-OFDM 256 QAM	160@0	28.516	29.47
48	15	40	641666	3624.99	CP-OFDM QPSK	216@0	38.513	39.82
48	15	40	641666	3624.99	CP-OFDM 16 QAM	216@0	38.488	39.85
48	15	40	641666	3624.99	CP-OFDM 64 QAM	216@0	38.616	39.86
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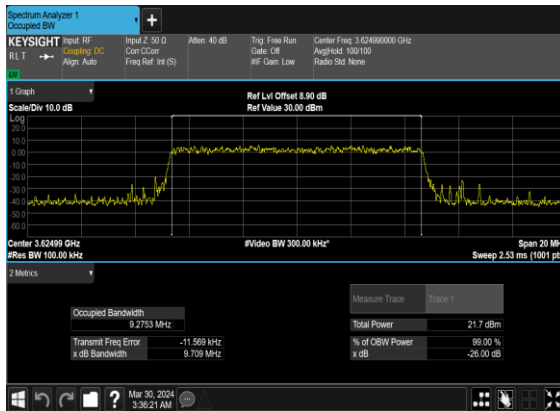
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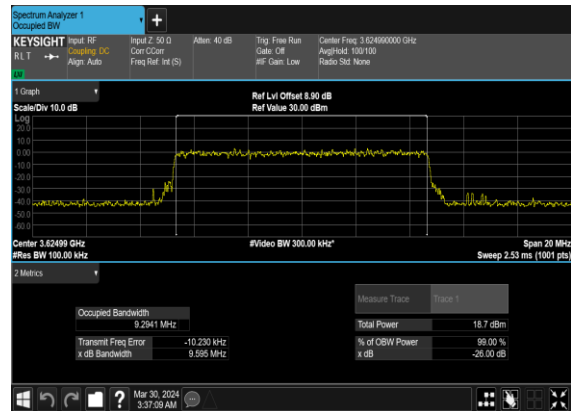
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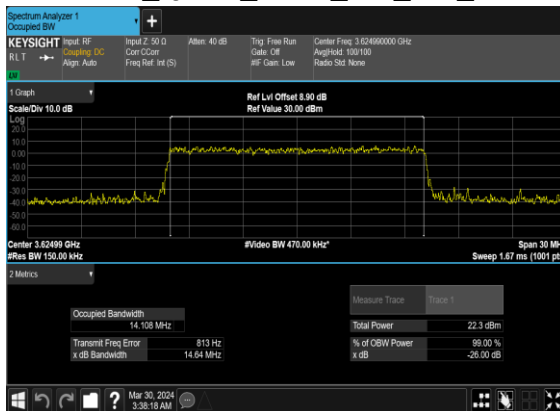
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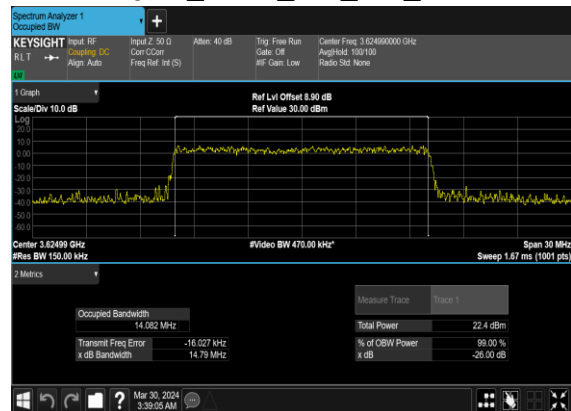
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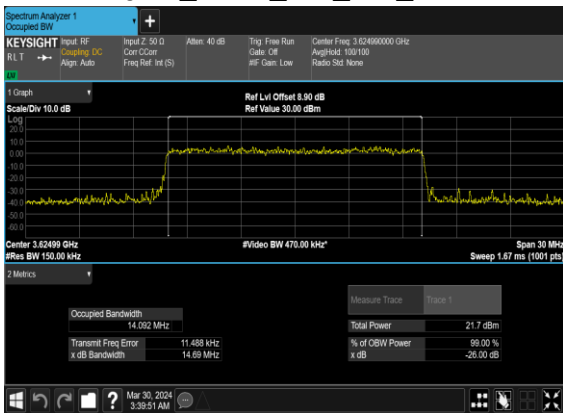
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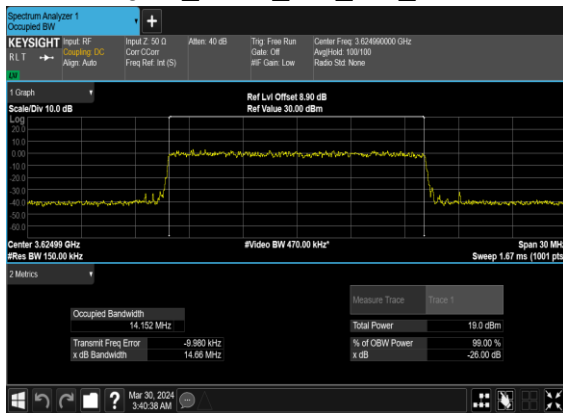
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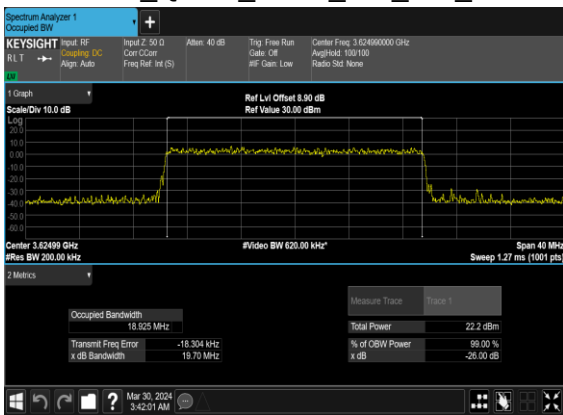
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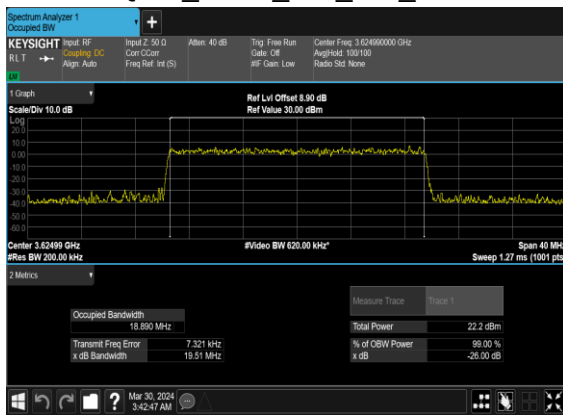
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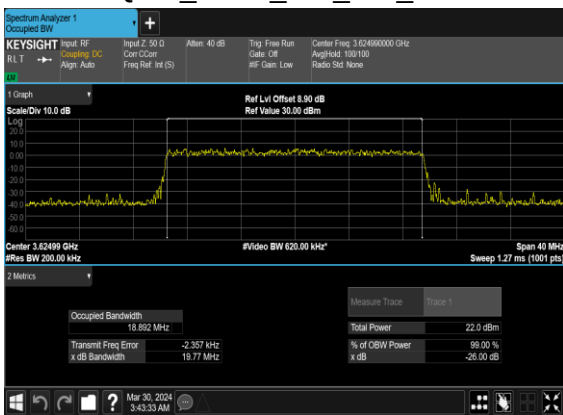
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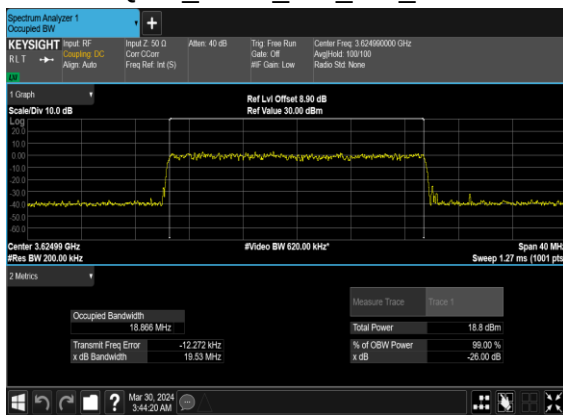
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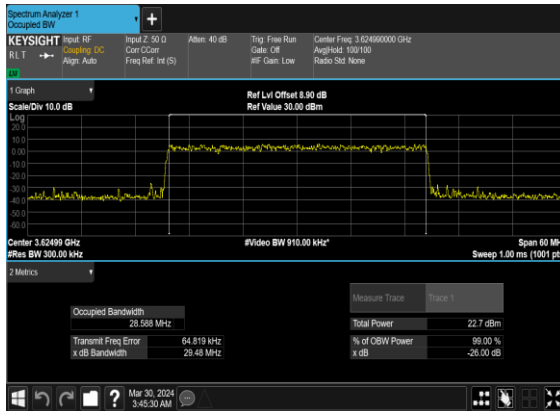
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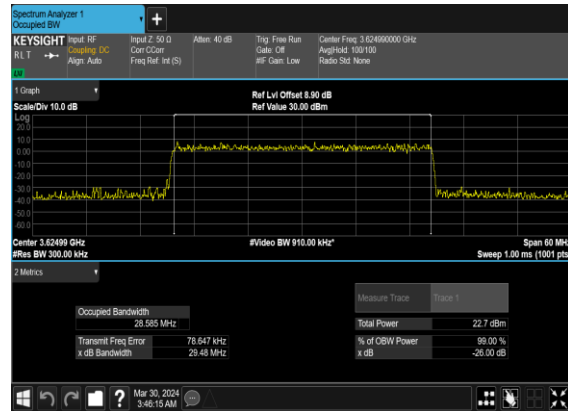
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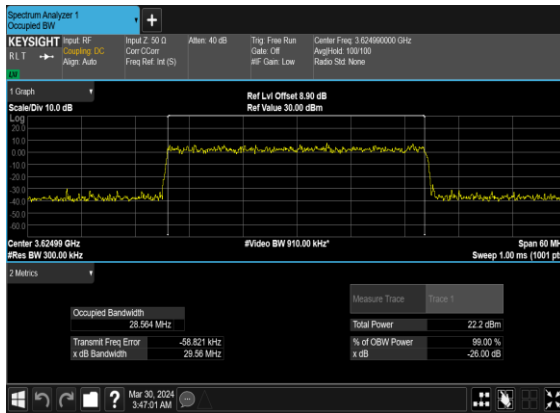
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OFDM_QPSK_Outer_Full_Mid_CH



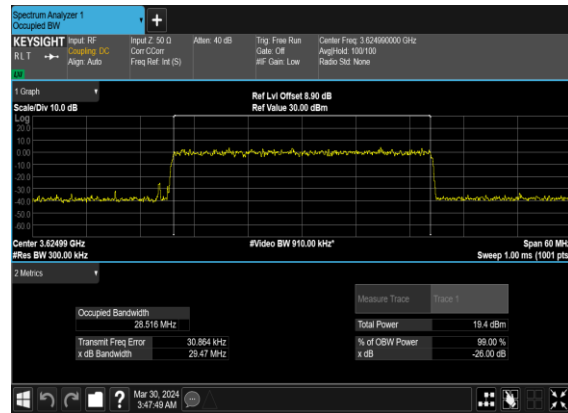
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QAM_Outer_Full_Mid_CH



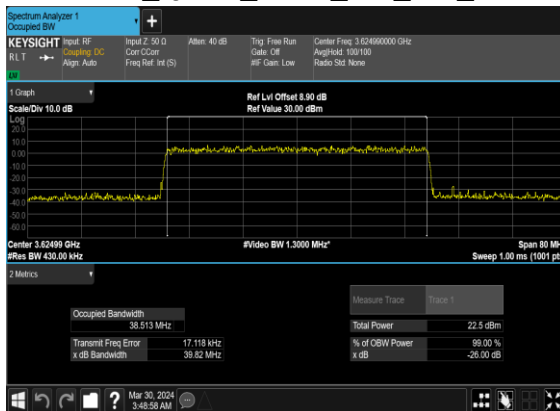
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QAM_Outer_Full_Mid_CH



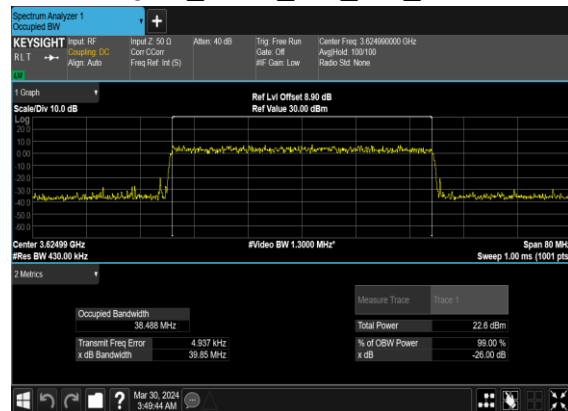
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QAM_Outer_Full_Mid_CH



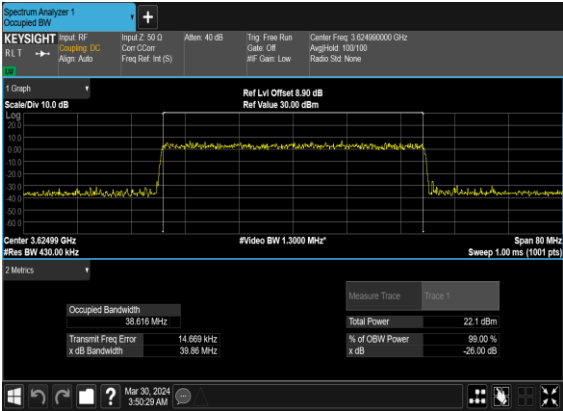
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OFDM_QPSK_Outer_Full_Mid_CH



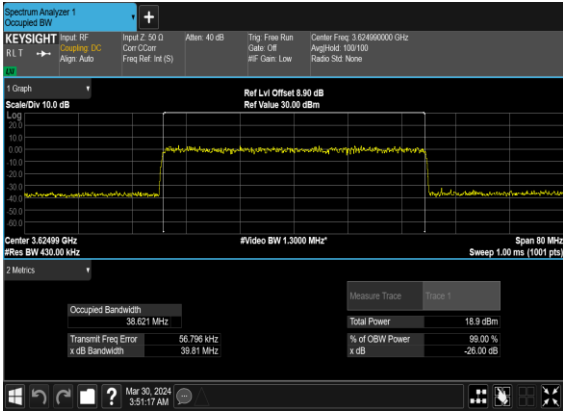
N48(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

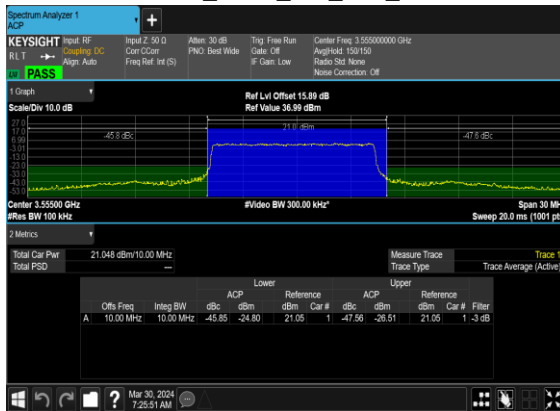


Adjacent Channel Leakage Ratio

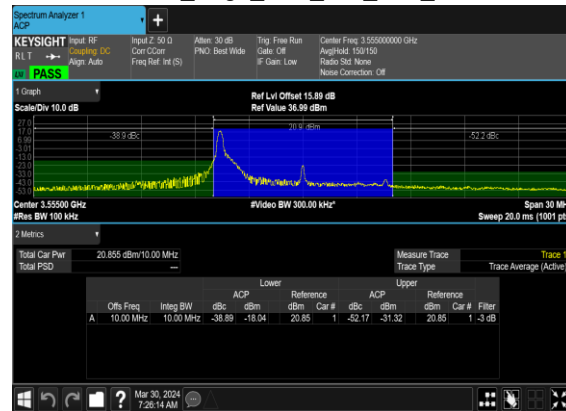
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Lower Margin	Upper Margin	Result	Verdict
48	15	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	50@0	-15.85	-17.56	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@0	-8.89	-22.17	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@51	-22.21	-8.85	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	50@0	-14.63	-16.19	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	-7.73	-21.83	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@51	-21.73	-8.85	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@0	-16.26	-18.42	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-9.46	-19.7	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@51	-20.92	-9.98	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	50@0	-16.99	-18.35	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	-7.58	-21.55	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@51	-22.88	-9.75	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	50@0	-14.66	-16.13	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@0	-8.88	-19.67	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@51	-20.49	-9.33	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	50@0	-14.25	-15.55	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	-8.02	-20.04	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@51	-19.91	-8.93	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	100@0	-16.59	-18.05	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@0	-6.81	-21.36	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@105	-21.79	-10.45	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	100@0	-15.46	-16.93	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	-7.68	-21.22	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@105	-21.25	-8.63	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	100@0	-15.77	-17.02	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-9.23	-19.92	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@105	-17.94	-9.24	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	-16.9	-17.48	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	-8.33	-17.85	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@105	-19.51	-9.43	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	100@0	-14.81	-16.26	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@0	-8.22	-17.39	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@105	-17.33	-7.89	see graph	PASS

48	15	20	646000	3690.0	DFT-s-OFDM QPSK	100@0	-14.95	-16.3	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	-7.82	-17.83	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@105	-17.53	-8.8	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	216@0	-15.17	-15.15	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@0	-10.67	-16.72	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@215	-17.63	-10.39	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	216@0	-14.11	-14.16	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	-9.53	-16.13	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@215	-16.94	-10.74	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	216@0	-15.42	-14.87	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-10.21	-16.88	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@215	-16.8	-10.99	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	216@0	-15.27	-14.52	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	-9.32	-16.61	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@215	-14.87	-8.77	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	216@0	-13.57	-14.13	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@0	-8.72	-14.88	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@215	-16.14	-9.2	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	216@0	-12.66	-13.22	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	-9.85	-15.61	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@215	-15.47	-9.8	see graph	PASS

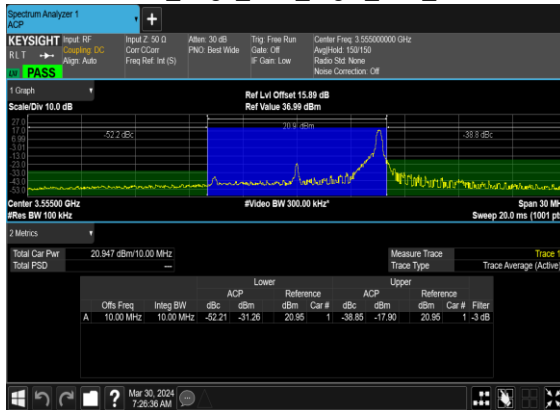
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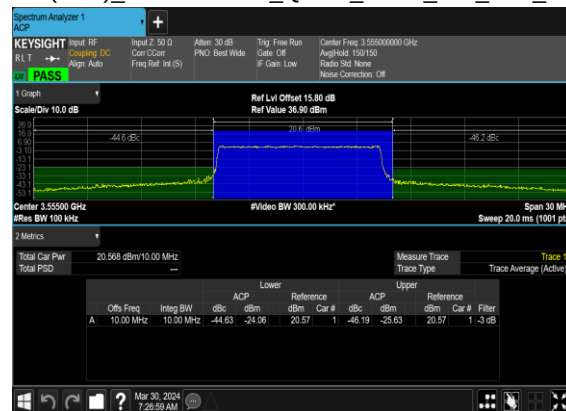
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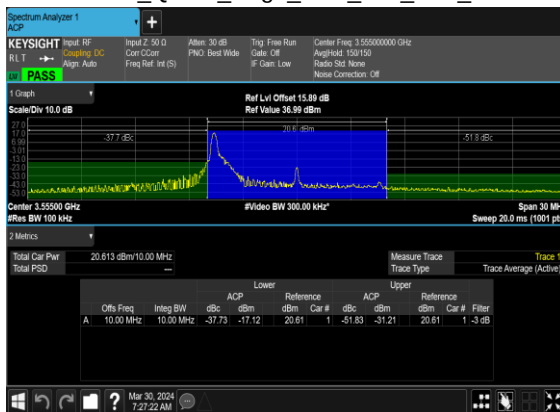
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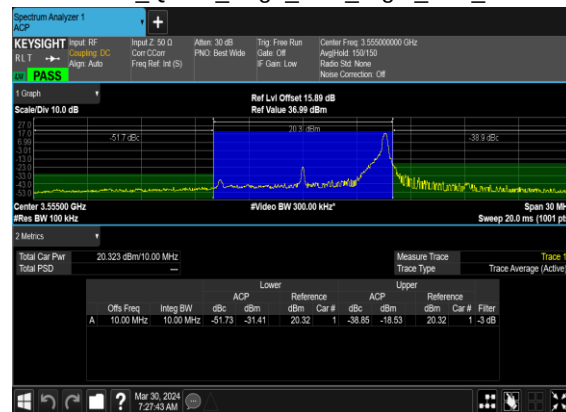
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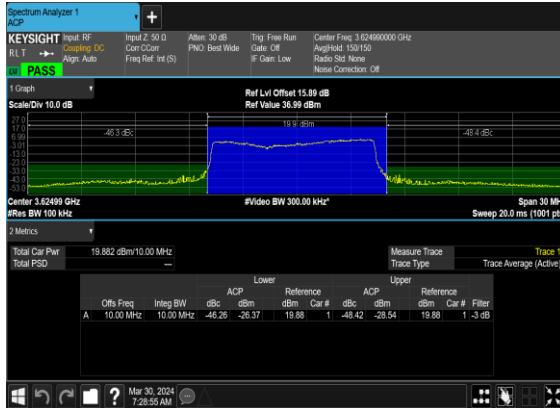
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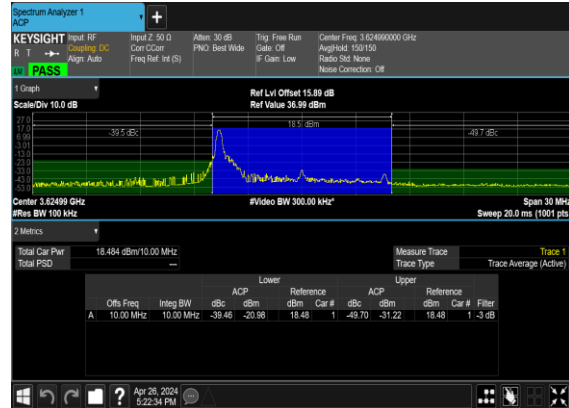
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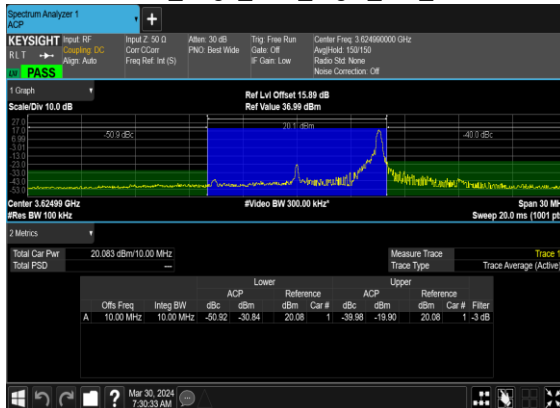
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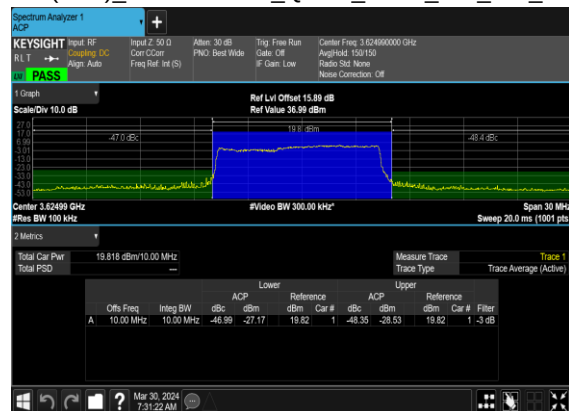
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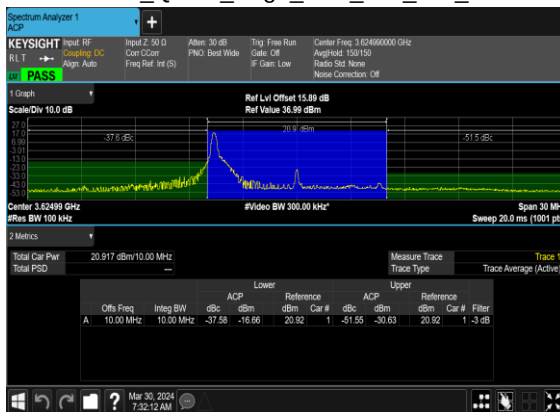
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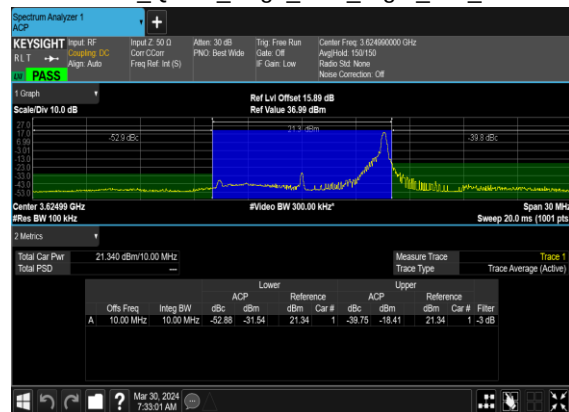
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N48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



The screenshot displays the Keysight Spectrum Analyzer 1 ACP interface. The main display shows a spectrum plot with a central peak at 3.69486 GHz. The plot has a scale of Div 10 dB and a bandwidth of BW 100 kHz. The peak level is approximately -19.669 dBm.

Parameters:

- Center Freq: 3.69486000 GHz
- Ref Level Offset: 15.59 dBm
- Ref Value: 36.39 dBm
- #Video BW: 300.00 kHz*
- Span: 30 MHz
- Sweep: 20.0 ms (1001 pts)

Measurement Data:

Offs Freq	Integ BW	dBc	ACP dBrn	Reference dBrn	Car #	ACP dBrn	Reference dBrn	Car #	Filter	
A	10.00 MHz	10.00 MHz	-44.66	-24.99	19.67	1	-46.13	-26.46	19.67	1 -3 dB

Spectrum Analyzer 1
AC/PC

KEYSIGHT Input Ref: **Keying DC** Input 2: 50.0 Corr C: Off
R.L.T. **Align Auto** Freq Ref: 10.0

dBm PASS

1 Graph
Scale Div: 10.0 dB

Ref Level Offset: 15.89 dBm
Ref Value: 38.99 dBm

Center Freq: 3.694980 GHz
#Res BW 100 kHz

Span 30 MHz
Sweep 20.0 ms (1001 pts)

2 Metrics

Total Cal Peak: 19.175 dBm/10.00 MHz
Total PSD: —

Lower				Upper							
Offs Freq	Integ BW	ACP	Reference	ACP	Reference						
dB	dBm	dBm	dBm	dBm	dBm	Car #	Filter				
A	10.00 MHz	10.00 MHz	-38.88	-19.70	19.15	1	-49.67	-30.49	19.16	1	-3 dB

Measure Trace: Trace 1
Trace Type: Trace Average (Active)

Mar 30, 2024 7:35:01 AM

Spectrum Analyzer 1 ACP

KEYSIGHT Input RF: **Channel OC** Input Z: 50 Ω PNO: Best Wide Trig Freq Run Gate: Off Center Freq: 3.69480000 GHz Arg/Len: 150110 Auto Auto Ratio/Sel: None Noise Correction: Off

1 Graph Scale/Div: 10.0 dB Ref Lev Offset: 15.59 dBm Ref Value: 36.59 dBm

Span 30 MHz Res BW 100 kHz Sweep 20.0 ms (1000 pts)

Offs Freq	Integ BW	dBc	ACP	Reference	Car #	ACP	Reference	Car #	Filter
A 10.00 MHz	10.00 MHz	-50.49	-30.53	19.96	1	-39.33	-19.37	19.96	1 -3 dB

Spectrum Analyzer 1
ACP

KEYSIGHT Input: RF **Input Z: 50 Ω** **Att: 30 dB** **Trig: Free Run** **Center Freq: 3.69486000 GHz**
 R.L.T. **Coupling: DC** **Con: C-Flat** **PHD: Best Wide** **Gate: Off** **Avg: 150150**
Aggr: Auto **Freq Ref: Int (S)** **IF Gain: Low** **Radio Set Name** **Noise Correction: Off**

Use: PASS

1 Graph
 Scale/Div: 10.0 dB
 Ref Lvl Offset: 15.59 dB
 Ref Value: 36.59 dBm

27.0
 17.0
 7.0
 -3.0
 -13.0
 -23.0
 -33.0
 -43.0
 -53.0

-44.3 dBc
 19.8 dBm
 -45.5 dBc

Center: 3.69486 GHz
 Span: 30 MHz
 RBW: 100 kHz
 Sweep: 20.0 ms (1001 pts)

3 Metrics

Total Car Power: 19.557 dBm/10.0 MHz
 Total PSD: ---

Measure Trace: Trace 1
 Trace Type: Trace Average (Active)

Lower				Upper			
Offs Freq	Integ BW	ACP dBc	ACP dBm	Reference dBm	ACP dBm	Reference dBm	Filter
A	10.00 MHz	10.00 MHz	-44.25	-24.69	19.56	1	-45.55 -26.00 19.56 1 -3 dB

Mar 30, 2024 7:36:39 AM

Spectrum Analyzer 1
ACP

KEYSIGHT Input RF: 10.00 MHz, 0.00 Vrms
 RLT: **Clipping DC**
 Align: Auto

10 PASS

Center Freq: 3.694800000 GHz
 ArgHold: 150/150
 ResBW: 100 kHz
 Noise Correction: Off

1 Graph
 Scale/Div: 10.0 dB

Ref Lvl Offset: 15.89 dBm
 Ref Value: 36.89 dBm

38.0 dBc
 16.8 dBm
 50.0 dBc

Center: 3.69480 GHz
 Res BW: 100 kHz
 Span: 30 MHz
 Sweep: 20.0 ms (1001 pts)

2 Metrics

Total Car Power: 19.645 dBm/10.00 MHz
 Total PSD: --

Lower				Upper			
Offs Freq	Integ BW	dBc	dBm	ACP	Reference	ACP	Reference
A				dBm	Car #	dBm	Car #
10.00 MHz	10.00 MHz	-38.02	-18.38	19.64	1	-50.04	-30.40
						19.64	1 -3 dB

Measure Trace: Trace Type: Trace Average (Active)

Spectrum Analyzer 1
ACP

KEYSIGHT Input: RF
RLT: Coupling: DC
Align: Auto

Alt: 30 dB
PNO: Best Wd
Trig: Free Run
Gate: Off
IF Gain: Low
Center Freq: 3.69450000 GHz
Avalchld: 150150
Radio Set: None
Noise Correction: Off

1 Graph
Scale/Dn: 10.0 dB

Ref Lvl Offset: 15.00 dB
Ref Value: 36.90 dBm

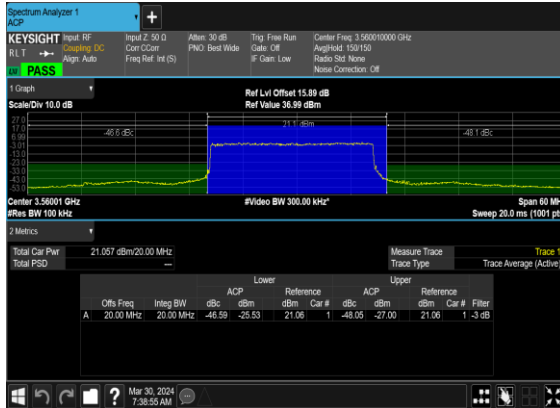
Center: 3.69450 GHz
Sweep BW: 100 kHz
#Video BW: 300.00 MHz

Span: 30 MHz
Sweep: 20.0 ms (1001 pts)

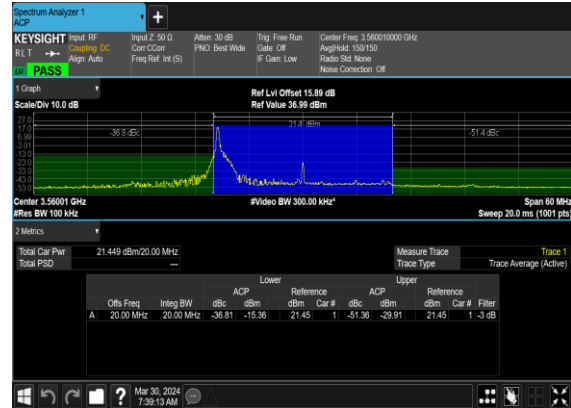
3 Metrics

Total Car Pwr		19.133 dBm/10.0 MHz		Measure Trace		Trace Type		Trace Average (Active)		
Total PSD		---		Lower		Reference		Upper		
Offs Freq	Integ BW	dBc	dBm	dBm	Car #	dBc	dBm	dBm	Car #	Filter
A	10.00 MHz	10.00 MHz	-49.91	-30.78	19.13	1	-39.93	-19.60	19.13	1 -3 dB

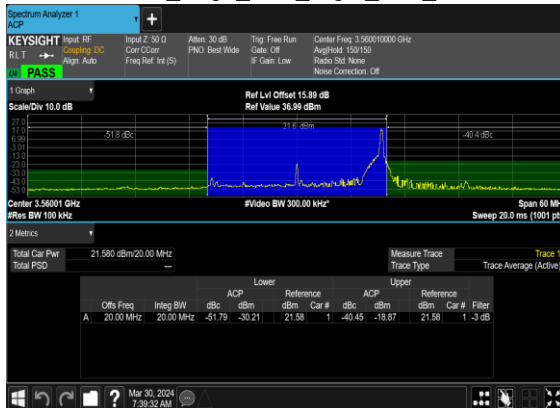
N48(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Low_CH



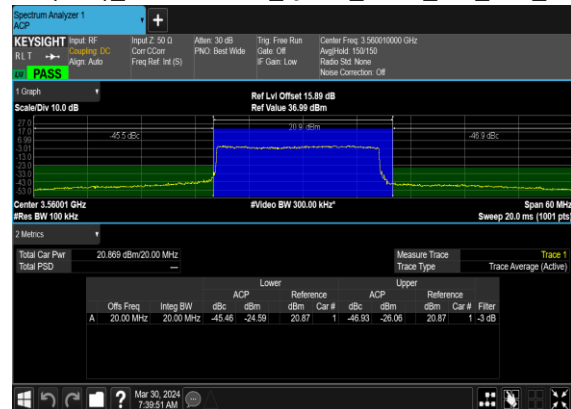
N48(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Low_CH



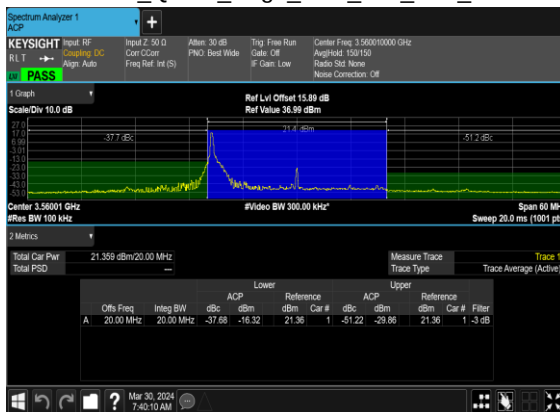
N48(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Right_Low_CH



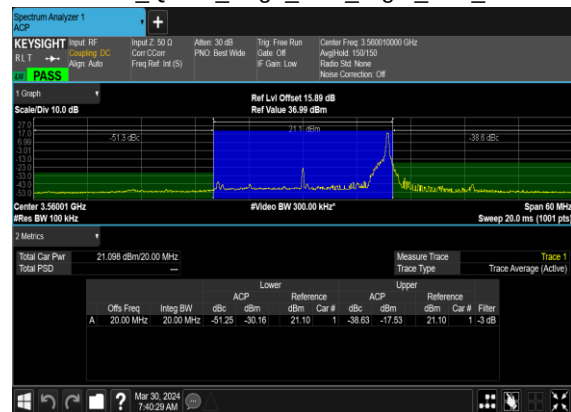
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



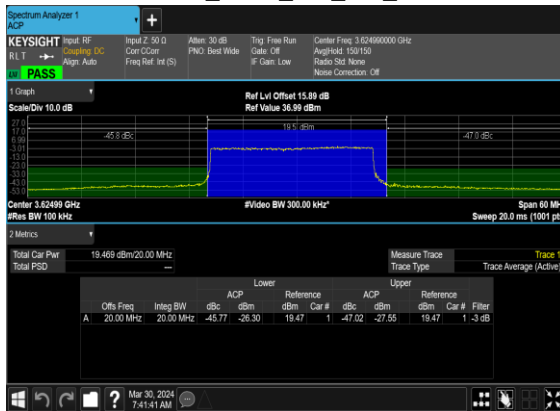
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OFDM_QPSK_Edge_1RB_Left_Low_CH



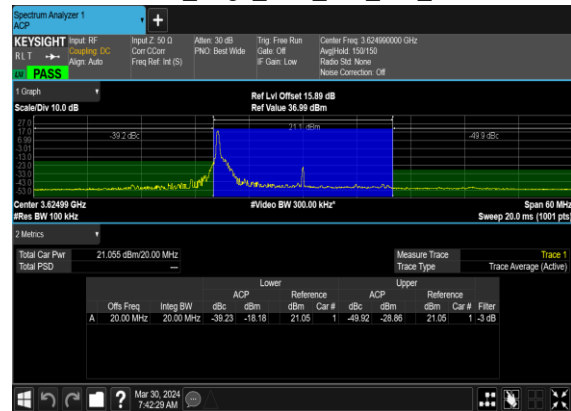
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OFDM_QPSK_Edge_1RB_Right_Low_CH



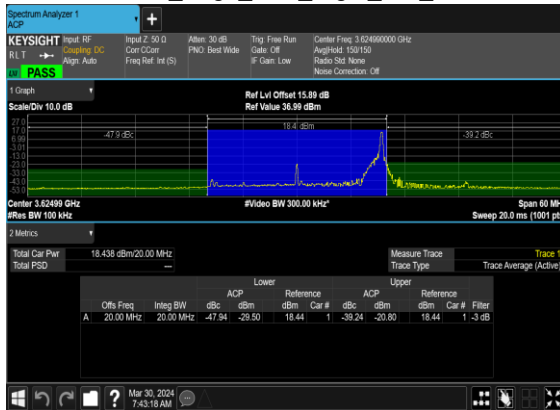
N48(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



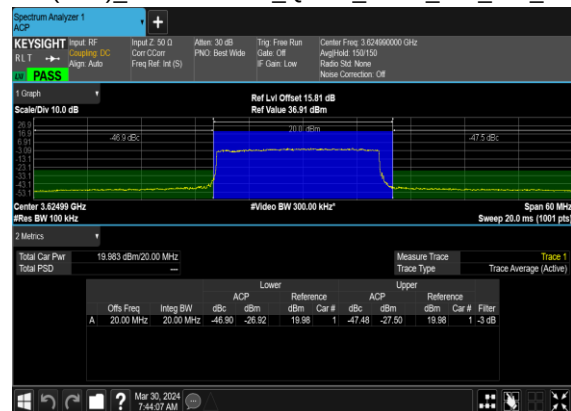
N48(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Mid_CH



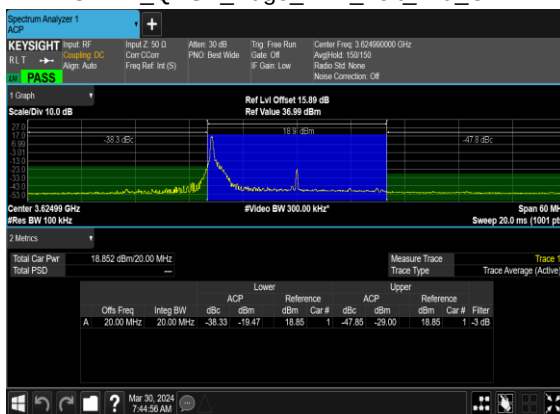
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BPSK_Edge_1RB_Right_Mid_CH



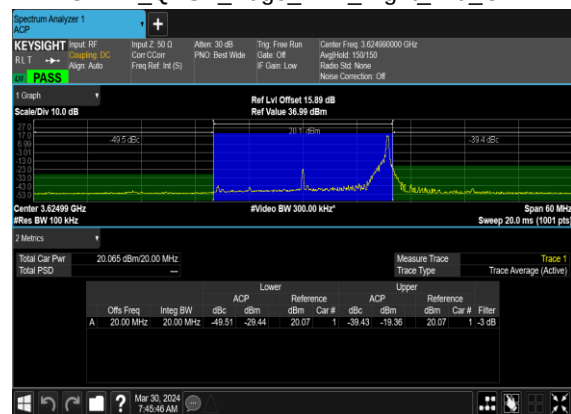
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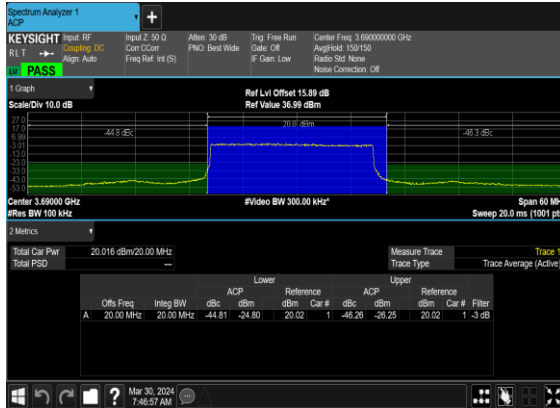
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OFDM_QPSK_Edge_1RB_Left_Mid_CH



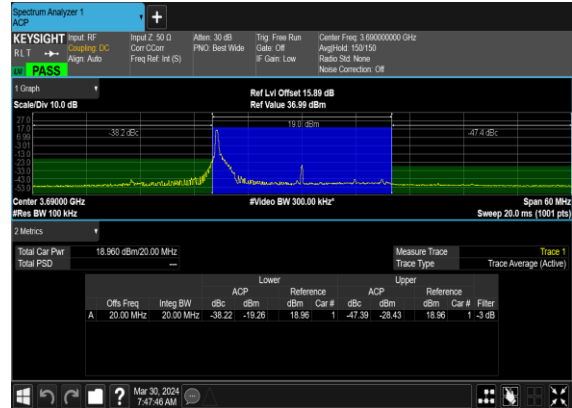
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OFDM_QPSK_Edge_1RB_Right_Mid_CH



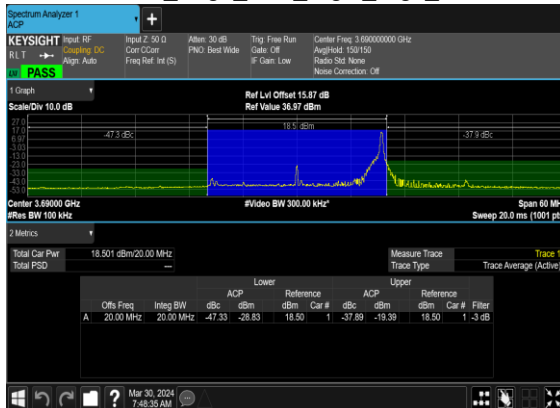
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BPSK_Outer_Full_High_CH



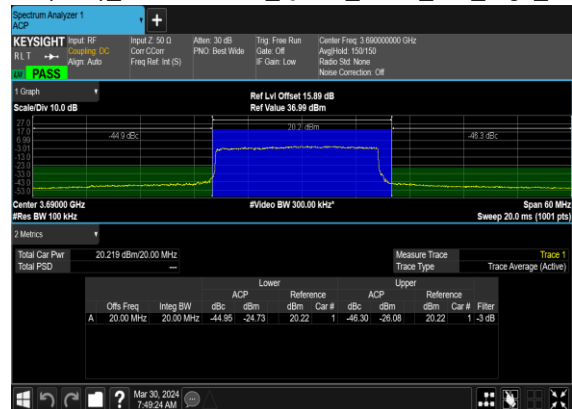
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BPSK_Edge_1RB_Left_High_CH



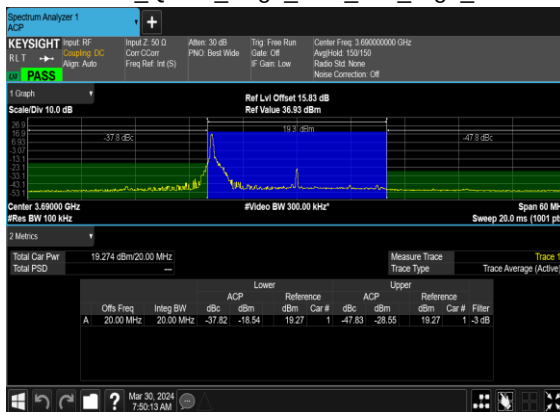
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BPSK_Edge_1RB_Right_High_CH



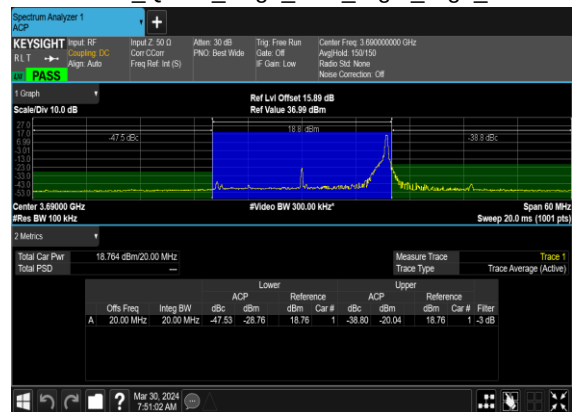
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



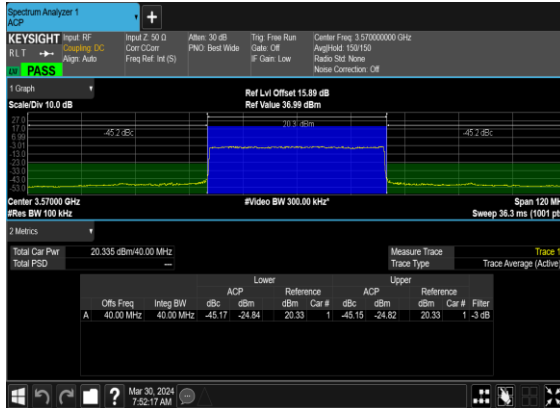
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



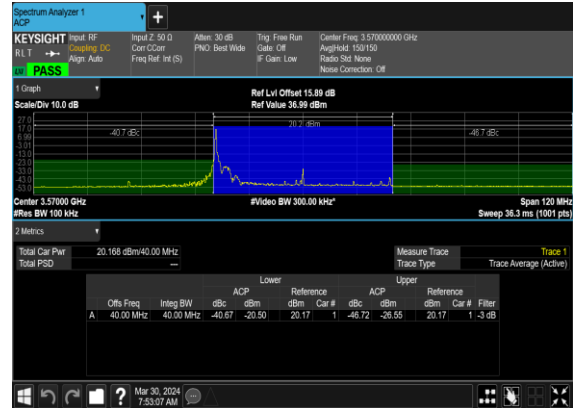
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



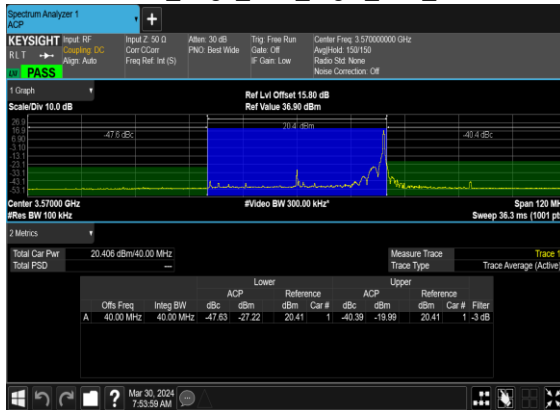
N48(40M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Low_CH



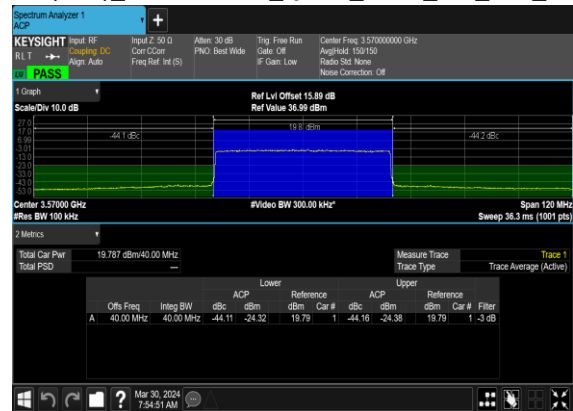
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BPSK_Edge_1RB_Left_Low_CH



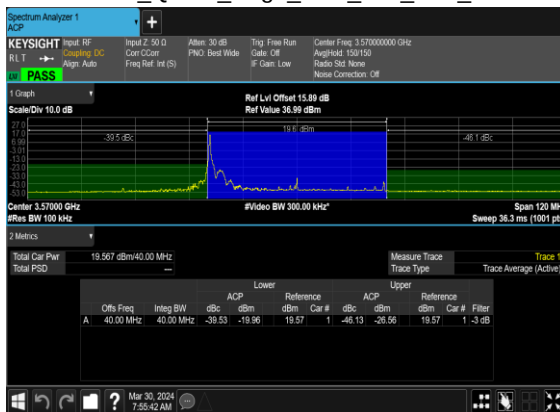
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BPSK_Edge_1RB_Right_Low_CH



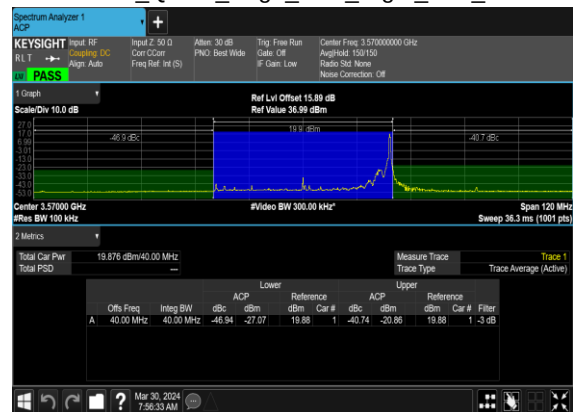
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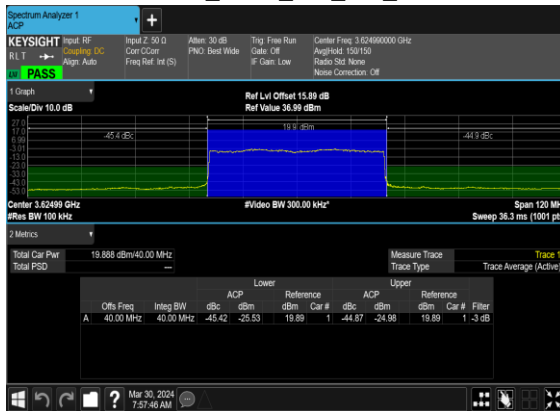
N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



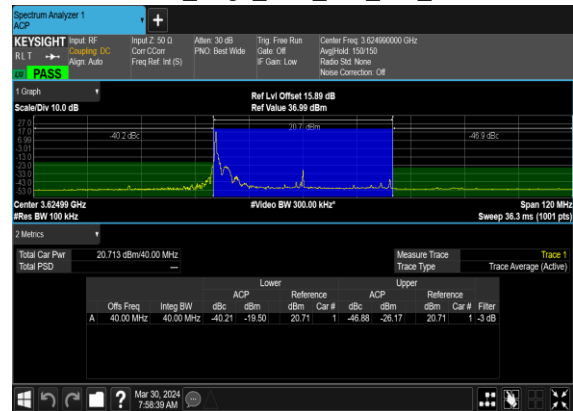
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OFDM_QPSK_Edge_1RB_Right_Low_CH



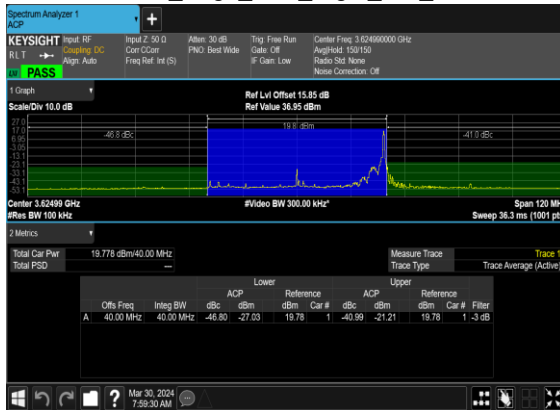
N48(40M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



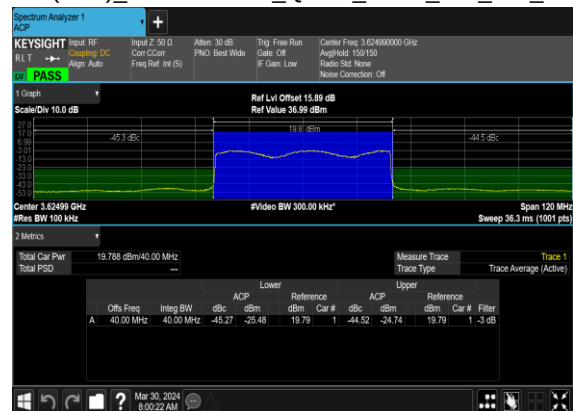
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BPSK_Edge_1RB_Left_Mid_CH



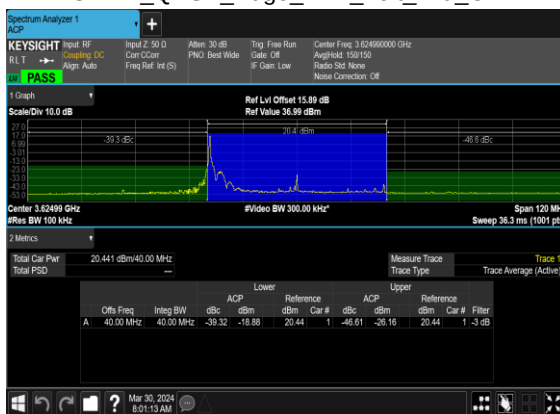
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BPSK_Edge_1RB_Right_Mid_CH



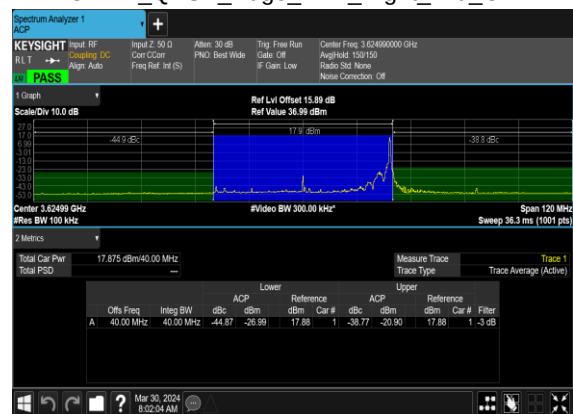
N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



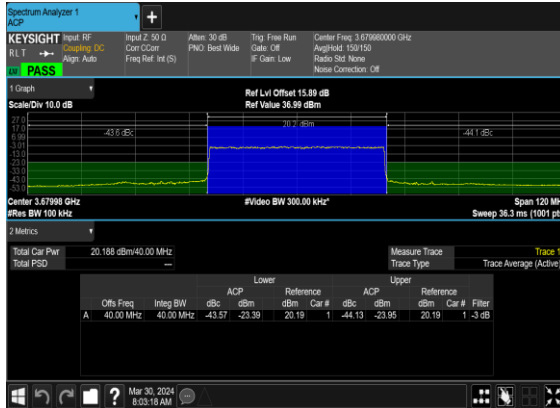
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OFDM_QPSK_Edge_1RB_Left_Mid_CH



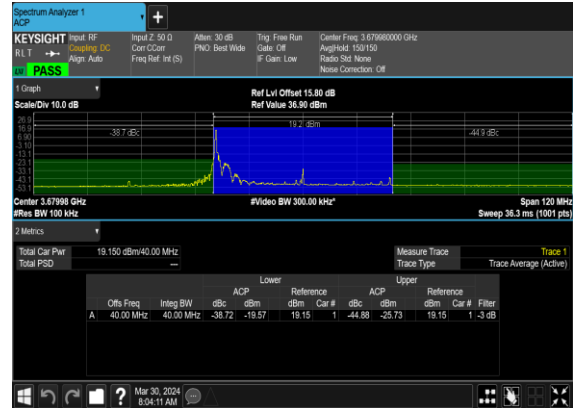
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OFDM_QPSK_Edge_1RB_Right_Mid_CH



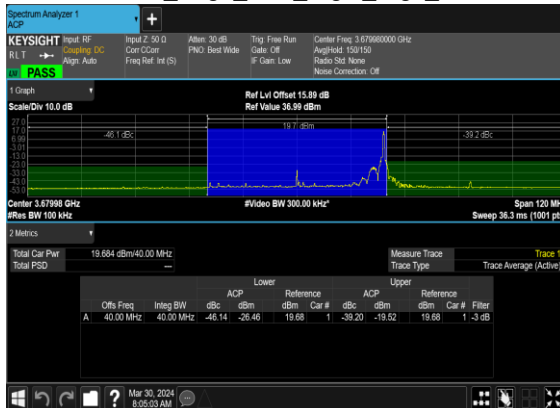
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BPSK_Outer_Full_High_CH



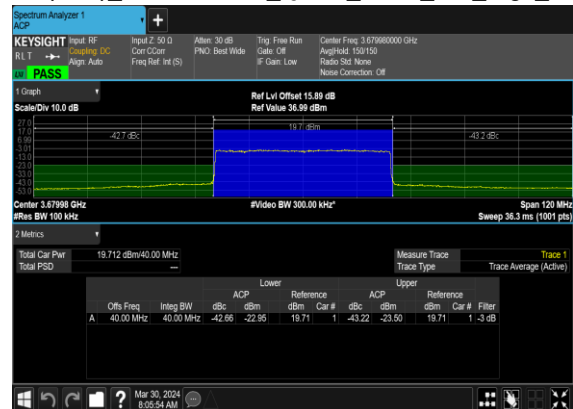
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BPSK_Edge_1RB_Left_High_CH



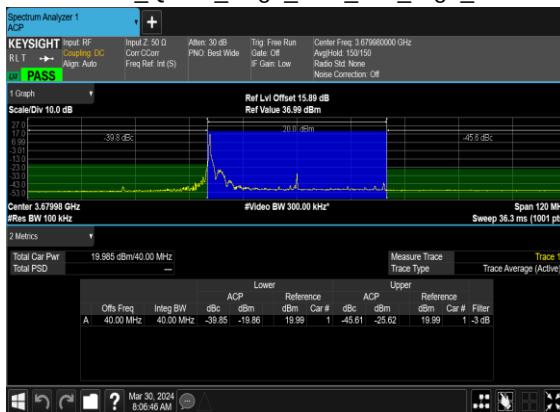
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BPSK_Edge_1RB_Right_High_CH



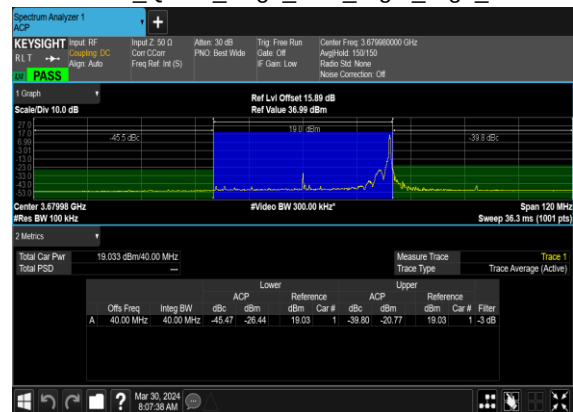
N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	---
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	---
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	---
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	---
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	---
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	---
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	---
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	---
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	---
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	---
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	---
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	---
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	---
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	---

48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	---
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	---
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	---
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	---
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	PASS

N48(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N48(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



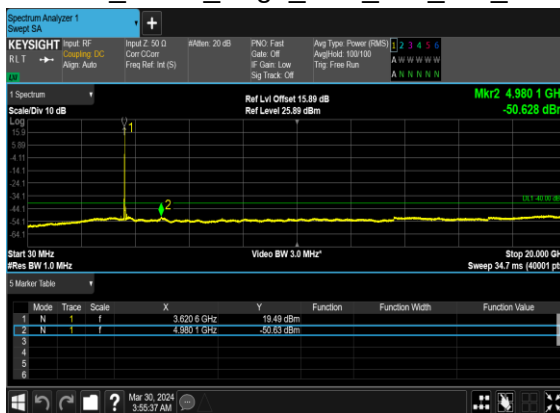
N48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



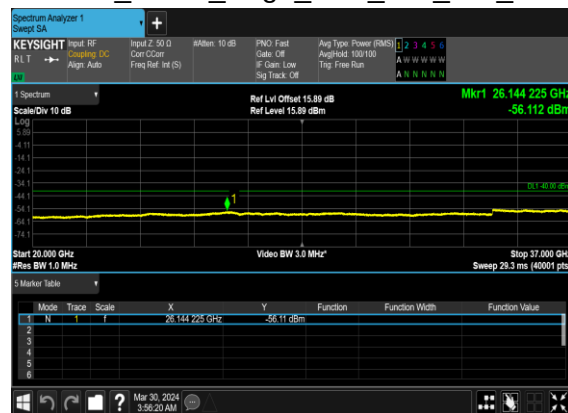
N48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N48(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



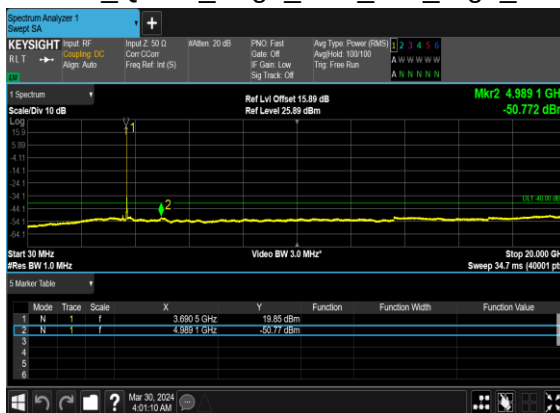
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

