



FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : POCO
MODEL NAME : 2311DRK48G
FCC ID : 2AFZZK48G
STANDARD : 47 CFR Part 2, 96
CLASSIFICATION : Citizens Band End User Devices (CBE)
EQUIPMENT TYPE : End User Equipment
TEST DATE(S) : Oct. 07, 2023 ~ Oct. 13, 2023

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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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 12.76 dB at 14425.600 MHz

Conformity Assessment Condition:

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

Disclaimer:

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



1 General Description

1.1 Applicant

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 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	POCO
Model Name	2311DRK48G
FCC ID	2AFZZK48G
Tx Frequency	5G NR n48: 3550 MHz ~ 3700 MHz
Rx Frequency	5G NR n48: 3550 MHz ~ 3700 MHz
Bandwidth	10MHz / 15MHz / 20MHz / 30MHz / 40MHz
SCS	15kHz; 30kHz
Antenna Gain	<Ant.5>: -1.80 dBi <Ant.6>: -1.80 dBi <Ant.7>: -0.35 dBi <Ant.8>: -1.50 dBi
Type of Modulation	DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM)
IMEI Code	Conducted : 863478060034729 Radiation : 863478060040627/863478060040635
HW Version	1351N11A
SW Version	Xiaomi HyperOS 1.0
EUT Stage	Identical Prototype

Remark:

1. The maximum EIRP is calculated from max output power and antenna gain, only the maximum EIRP of Ant.5 is shown in the report.
2. 5G NR n48 only support SA mode for SCS 15kHz and 30kHz. According to the maximum power, SCS 15kHz covers 30kHz.
3. The device supports n48(1T4R) SRS resources on ant.5/6/7/8, only the test data of worst Ant.5 is showed in the report according to the maximum power.
4. The EN-DC mode combination could be referred to the product spec.

1.4 Modification of EUT

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

1.5 Maximum EIRP and Emission Designator

5G NR n48 - SCS 15kHz		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3555.00~3694.98	0.1219	9M27G7D	0.0982	9M29W7D
15	3557.52~3692.49	0.1230	14M1G7D	0.0998	14M1W7D
20	3560.01~3690.00	0.1233	19M0G7D	0.1009	19M0W7D
30	3565.02~3684.99	0.1230	28M5G7D	0.1005	28M6W7D
40	3570.00~3679.98	0.1256	38M5G7D	0.0995	38M6W7D

Note: All modulations have been tested, and only the worst test results are shown in the report.

1.6 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 China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-SZ	CN1256	421272

1.7 Test Software

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



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



2 Test Configuration of Equipment Under Test

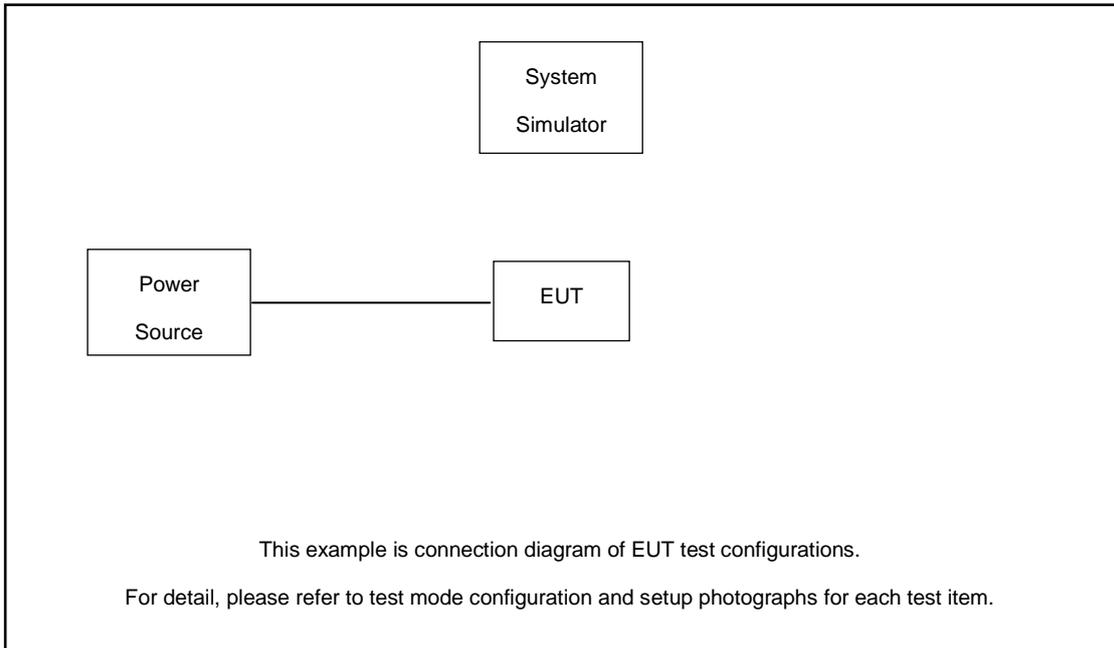
2.1 Test Mode

Antenna port conducted and radiated test items 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 (Y plane) were recorded in this report.

Test Items	Band	Bandwidth (MHz)												Modulation					RB #		Test Channel		
		10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	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
Peak to Average Ratio	n48			v	-			-	-	-	-	-	-	v	v				v	v			v
26dB and 99% Bandwidth	n48	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
Conducted Band Edge	n48	v		v	-		v	-	-	-	-	-	-	v	v				v	v	v	v	v
Conducted Spurious Emission	n48	v		v	-		v	-	-	-	-	-	-	v	v				v			v	v
E.I.R.P	n48	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
Remark	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. All the radiated test cases were performed with Adapter 1 and USB Cable 1. Frequency Stability : Normal Voltage = 3.89V ; Low Voltage =3.45V. ; High Voltage =4.45V 																						

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.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.89 dB and 10dB attenuator.

Example :

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

$$= 5.89 + 10 = 15.89 \text{ (dB)}$$



2.5 Frequency List of Low/Middle/High Channels

5G NR n48 Channel and Frequency List –SCS 15KHz / 30KHz				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	638000	641666	645332
	Frequency	3570.00	3624.99	3679.98
30	Channel	637667	641666	645666
	Frequency	3565.005	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	3555.0	3624.99	3694.98

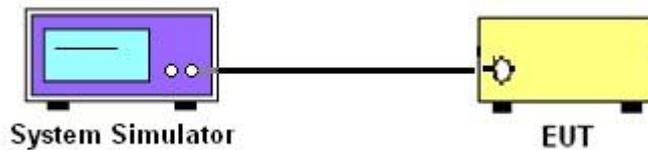
3 Conducted Test Items

3.1 Measuring Instruments

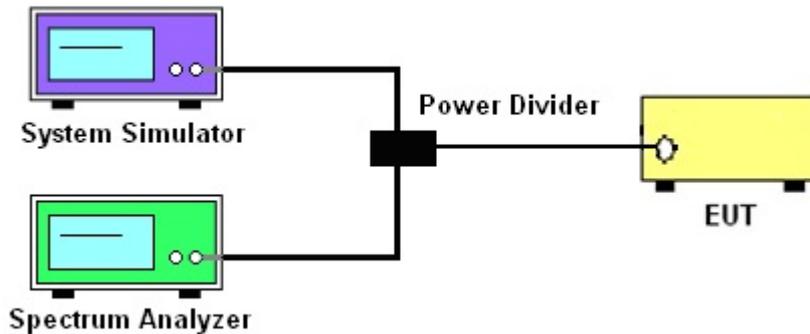
See list of measuring instruments of this test report.

3.1.1 Test Setup

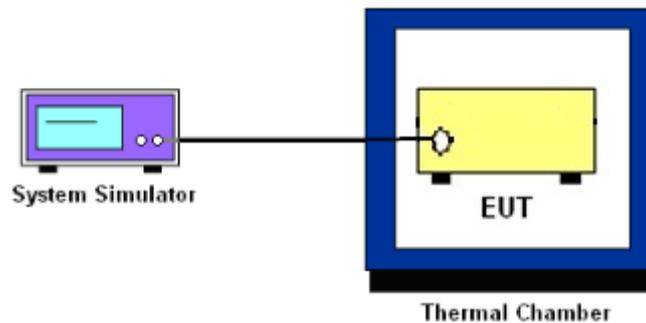
3.1.2 Conducted Output Power



3.1.3 PSD, Peak-to-Average Ratio, 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
<input type="checkbox"/>	Category A CBSD	30	20
<input type="checkbox"/>	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 (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. 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.

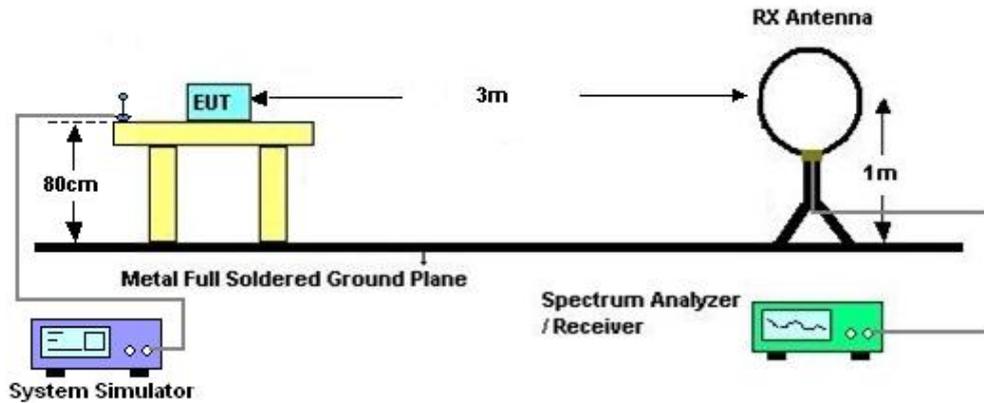
4 Radiated Test Items

4.1 Measuring Instruments

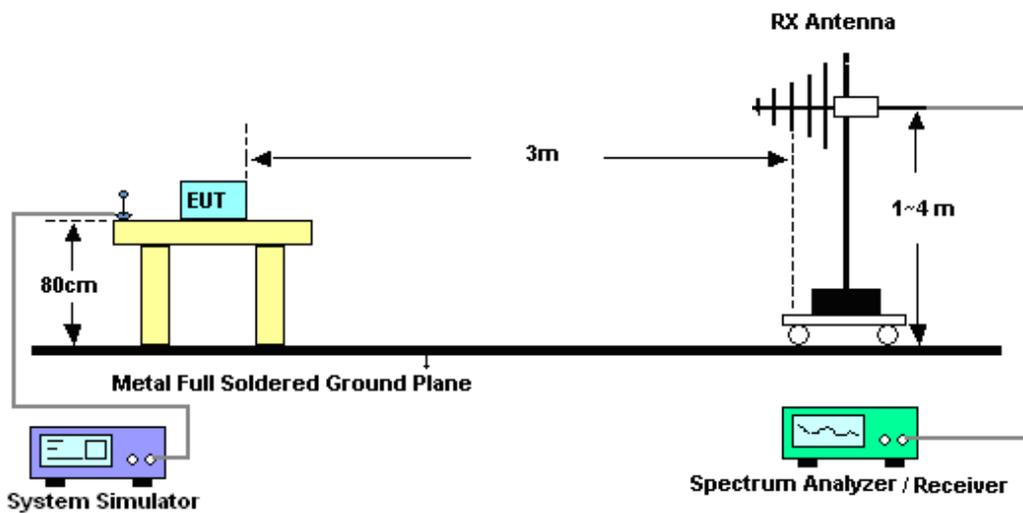
See list of measuring instruments of this test report.

4.2 Test Setup

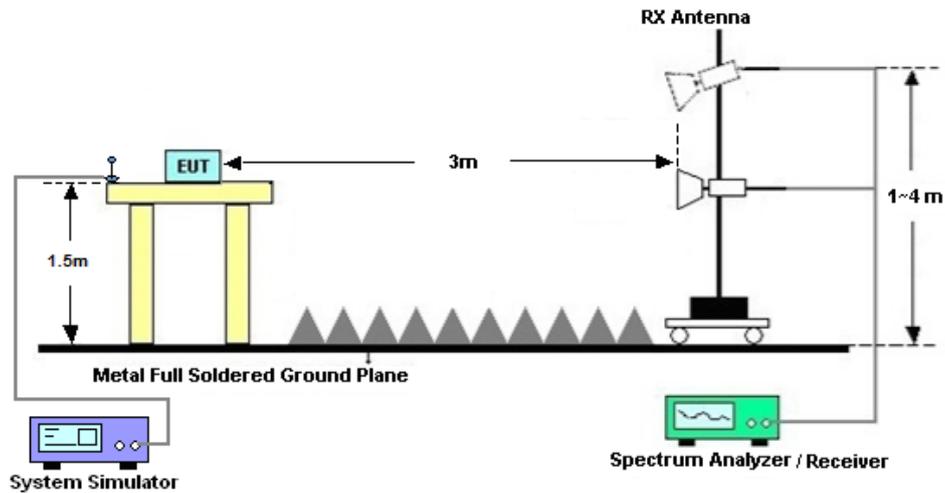
4.2.1 For radiated test below 30MHz



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.
EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
ERP (dBm) = 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. 06, 2023	Oct. 07, 2023~ Oct. 13, 2023	Apr. 05, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2022	Oct. 07, 2023~ Oct. 13, 2023	Dec. 24, 2023	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	Oct. 07, 2023~ Oct. 13, 2023	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Oct. 11, 2023	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 14, 2023	Oct. 11, 2023	May 13, 2024	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	Oct. 11, 2023	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	Oct. 11, 2023	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Nov. 10, 2022	Oct. 11, 2023	Nov. 09, 2023	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 11, 2023	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required.



6 Uncertainty of Evaluation

Uncertainty of Conducted Measurement

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.1dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

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

FR1 N48 (ANT5) – SCS15kHz

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=-1.8dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@1	22.63	20.83	0.1211
48	15	10	637000	3555.0	DFT-s-OFDM 16 QAM	1@1	21.72	19.92	0.0982
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@1	22.61	20.81	0.1205
48	15	10	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	21.71	19.91	0.0979
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@1	22.66	20.86	0.1219
48	15	10	646332	3694.98	DFT-s-OFDM 16 QAM	1@1	21.71	19.91	0.0979
48	15	15	637168	3557.52	DFT-s-OFDM QPSK	1@1	22.66	20.86	0.1219
48	15	15	637168	3557.52	DFT-s-OFDM 16 QAM	1@1	21.76	19.96	0.0991
48	15	15	641666	3624.99	DFT-s-OFDM QPSK	1@1	22.66	20.86	0.1219
48	15	15	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	21.73	19.93	0.0984
48	15	15	646166	3692.49	DFT-s-OFDM QPSK	1@1	22.7	20.9	0.1230
48	15	15	646166	3692.49	DFT-s-OFDM 16 QAM	1@1	21.79	19.99	0.0998
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@1	22.68	20.88	0.1225
48	15	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@1	21.76	19.96	0.0991
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@1	22.68	20.88	0.1225
48	15	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	21.78	19.98	0.0995
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@1	22.71	20.91	0.1233
48	15	20	646000	3690.0	DFT-s-OFDM 16 QAM	1@1	21.84	20.04	0.1009
48	15	30	637667	3565.005	DFT-s-OFDM QPSK	1@1	22.69	20.89	0.1227
48	15	30	637667	3565.005	DFT-s-OFDM 16 QAM	1@1	21.82	20.02	0.1005
48	15	30	641666	3624.99	DFT-s-OFDM QPSK	1@1	22.7	20.9	0.1230
48	15	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	21.79	19.99	0.0998
48	15	30	645666	3684.99	DFT-s-OFDM QPSK	1@1	22.66	20.86	0.1219
48	15	30	645666	3684.99	DFT-s-OFDM 16 QAM	1@1	21.8	20	0.1000
48	15	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	108@54	22.53	20.73	0.1183
48	15	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@1	22.59	20.79	0.1199

48	15	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@214	22.39	20.59	0.1146
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	108@54	22.5	20.7	0.1175
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@1	22.67	20.87	0.1222
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@214	22.48	20.68	0.1169
48	15	40	638000	3570.0	DFT-s-OFDM 16 QAM	108@54	21.52	19.72	0.0938
48	15	40	638000	3570.0	DFT-s-OFDM 16 QAM	1@1	21.78	19.98	0.0995
48	15	40	638000	3570.0	DFT-s-OFDM 16 QAM	1@214	21.52	19.72	0.0938
48	15	40	638000	3570.0	DFT-s-OFDM 64 QAM	108@54	20.03	18.23	0.0665
48	15	40	638000	3570.0	DFT-s-OFDM 64 QAM	1@1	19.91	18.11	0.0647
48	15	40	638000	3570.0	DFT-s-OFDM 64 QAM	1@214	19.66	17.86	0.0611
48	15	40	638000	3570.0	DFT-s-OFDM 256 QAM	108@54	18.03	16.23	0.0420
48	15	40	638000	3570.0	DFT-s-OFDM 256 QAM	1@1	18.1	16.3	0.0427
48	15	40	638000	3570.0	DFT-s-OFDM 256 QAM	1@214	17.83	16.03	0.0401
48	15	40	638000	3570.0	CP-OFDM QPSK	108@54	21.04	19.24	0.0839
48	15	40	638000	3570.0	CP-OFDM QPSK	1@1	21.15	19.35	0.0861
48	15	40	638000	3570.0	CP-OFDM QPSK	1@214	20.96	19.16	0.0824
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	108@54	22.56	20.76	0.1191
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	22.79	20.99	0.1256
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@214	22.49	20.69	0.1172
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	108@54	22.57	20.77	0.1194
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@1	22.68	20.88	0.1225
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@214	22.58	20.78	0.1197
48	15	40	641666	3624.99	DFT-s-OFDM 16 QAM	108@54	21.6	19.8	0.0955
48	15	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	21.77	19.97	0.0993
48	15	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@214	21.66	19.86	0.0968
48	15	40	641666	3624.99	DFT-s-OFDM 64 QAM	108@54	20.08	18.28	0.0673
48	15	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	19.93	18.13	0.0650
48	15	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@214	19.91	18.11	0.0647
48	15	40	641666	3624.99	DFT-s-OFDM 256 QAM	108@54	18.1	16.3	0.0427
48	15	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	18.1	16.3	0.0427
48	15	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@214	18.02	16.22	0.0419

48	15	40	641666	3624.99	CP-OFDM QPSK	108@54	21.06	19.26	0.0843
48	15	40	641666	3624.99	CP-OFDM QPSK	1@1	21.16	19.36	0.0863
48	15	40	641666	3624.99	CP-OFDM QPSK	1@214	21.09	19.29	0.0849
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	108@54	22.65	20.85	0.1216
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@1	22.49	20.69	0.1172
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@214	22.49	20.69	0.1172
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	108@54	22.65	20.85	0.1216
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@1	22.58	20.78	0.1197
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@214	22.57	20.77	0.1194
48	15	40	645332	3679.98	DFT-s-OFDM 16 QAM	108@54	21.67	19.87	0.0971
48	15	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@1	21.66	19.86	0.0968
48	15	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@214	21.62	19.82	0.0959
48	15	40	645332	3679.98	DFT-s-OFDM 64 QAM	108@54	20.14	18.34	0.0682
48	15	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@1	19.83	18.03	0.0635
48	15	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@214	19.82	18.02	0.0634
48	15	40	645332	3679.98	DFT-s-OFDM 256 QAM	108@54	18.19	16.39	0.0436
48	15	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@1	17.93	16.13	0.0410
48	15	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@214	17.99	16.19	0.0416
48	15	40	645332	3679.98	CP-OFDM QPSK	108@54	21.16	19.36	0.0863
48	15	40	645332	3679.98	CP-OFDM QPSK	1@1	21.1	19.3	0.0851
48	15	40	645332	3679.98	CP-OFDM QPSK	1@214	21.09	19.29	0.0849

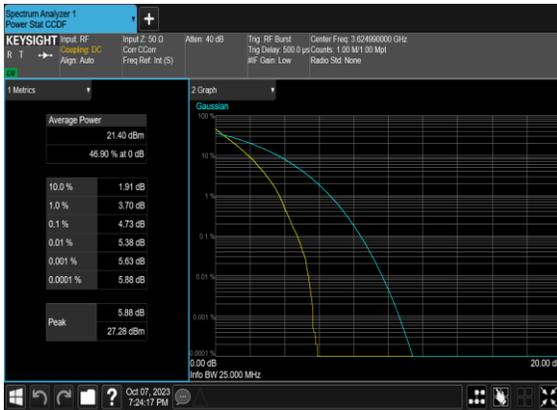
Frequency Stability

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	0.0022	PASS	LV
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0032	PASS	HV
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0048	PASS	-30°C
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0027	PASS	-20°C
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0022	PASS	-10°C
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0031	PASS	0°C
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0067	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	0.0026	PASS	30°C
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0046	PASS	40°C
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.0057	PASS	50°C

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	100@0	4.73	13	PASS
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	4.43	13	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	5.85	13	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	5.4	13	PASS

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



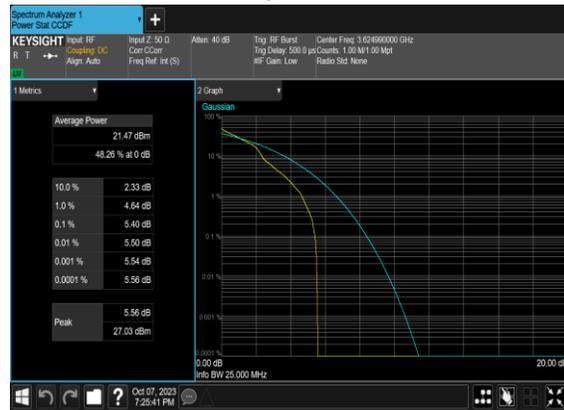
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



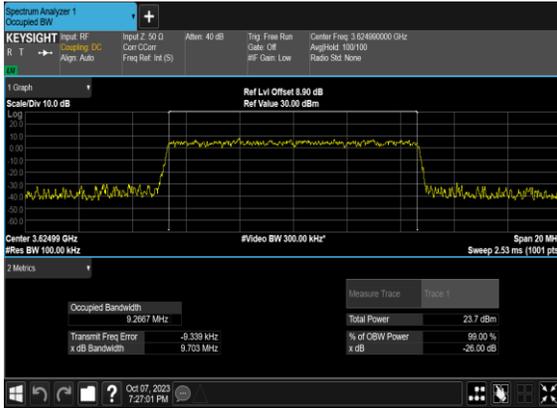
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
48	15	10	641666	3624.99	CP-OFDM QPSK	52@0	9.2667	9.703
48	15	10	641666	3624.99	CP-OFDM 16 QAM	52@0	9.2894	9.608
48	15	10	641666	3624.99	CP-OFDM 64 QAM	52@0	9.2772	9.677
48	15	10	641666	3624.99	CP-OFDM 256 QAM	52@0	9.2774	9.697
48	15	15	641666	3624.99	CP-OFDM QPSK	79@0	14.072	14.6
48	15	15	641666	3624.99	CP-OFDM 16 QAM	79@0	14.114	14.59
48	15	15	641666	3624.99	CP-OFDM 64 QAM	79@0	14.071	14.68
48	15	15	641666	3624.99	CP-OFDM 256 QAM	79@0	14.075	14.63
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	18.962	19.59
48	15	20	641666	3624.99	CP-OFDM 16 QAM	106@0	18.901	19.61
48	15	20	641666	3624.99	CP-OFDM 64 QAM	106@0	18.959	19.6
48	15	20	641666	3624.99	CP-OFDM 256 QAM	106@0	18.901	19.61
48	15	30	641666	3624.99	CP-OFDM QPSK	160@0	28.54	29.47
48	15	30	641666	3624.99	CP-OFDM 16 QAM	160@0	28.604	29.46
48	15	30	641666	3624.99	CP-OFDM 64 QAM	160@0	28.587	29.51
48	15	30	641666	3624.99	CP-OFDM 256 QAM	160@0	28.599	29.48
48	15	40	641666	3624.99	CP-OFDM QPSK	216@0	38.52	39.86
48	15	40	641666	3624.99	CP-OFDM 16 QAM	216@0	38.59	39.93
48	15	40	641666	3624.99	CP-OFDM 64 QAM	216@0	38.526	39.87
48	15	40	641666	3624.99	CP-OFDM 256 QAM	216@0	38.56	39.77

N48(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N48(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N48(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N48(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



N48(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N48(15M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



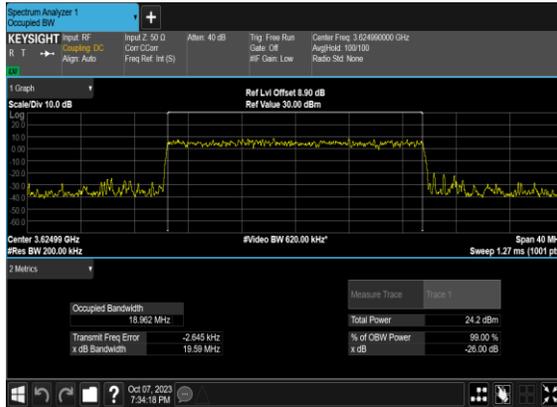
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N48(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



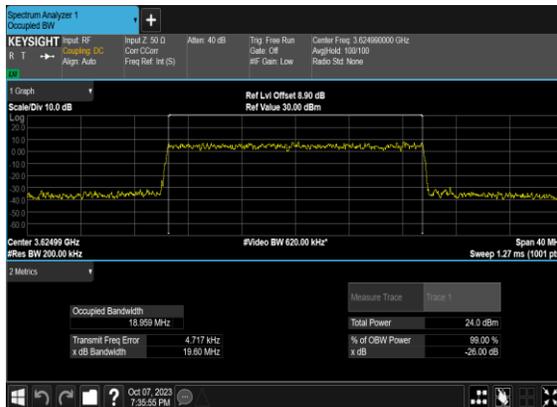
N48(20M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



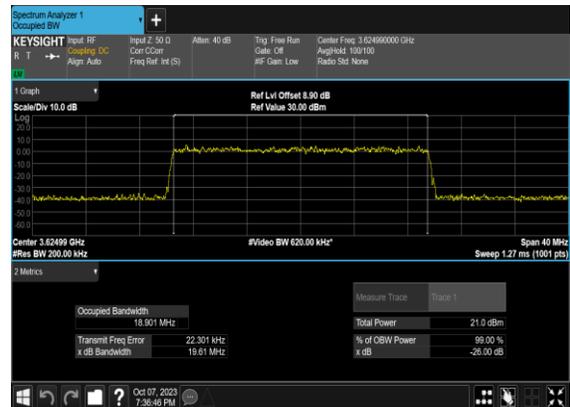
N48(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N48(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



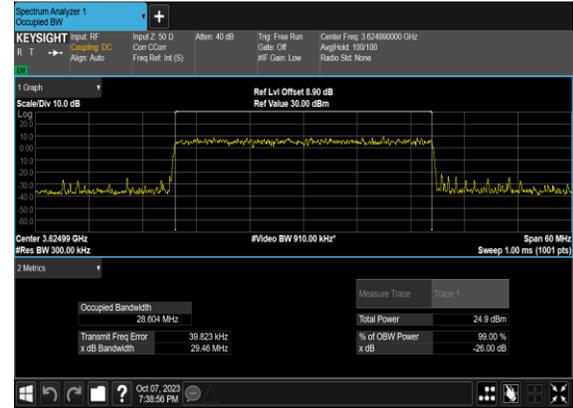
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N48(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N48(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



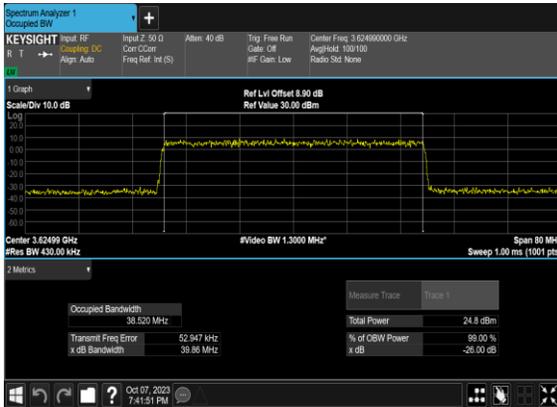
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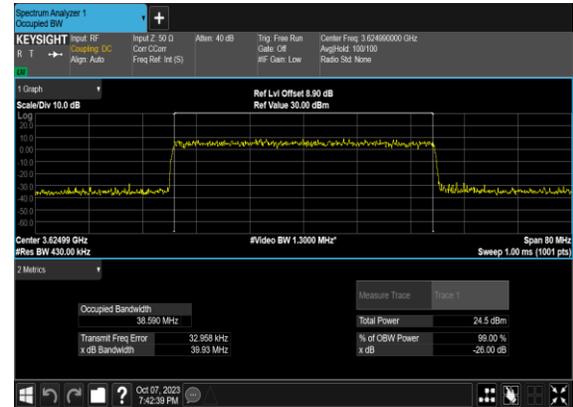
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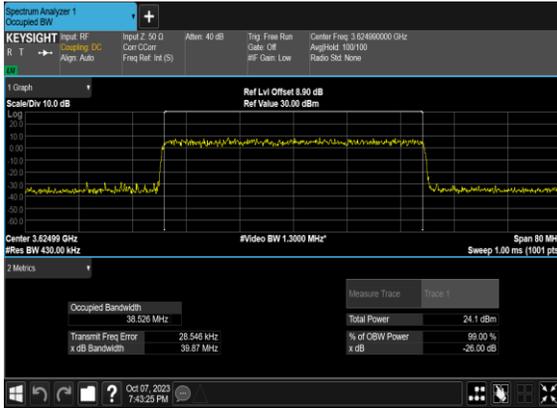
N48(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



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



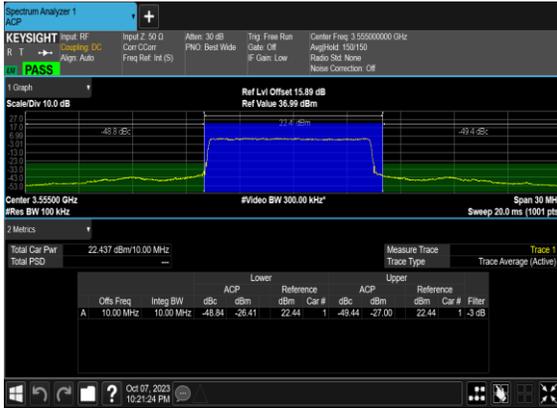
Adjacent Channel Leakage Ratio

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	-18.84	-19.44	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@0	-16.07	-23.67	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@51	-23.59	-18.34	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	50@0	-20.56	-20.97	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	-17.52	-23.33	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@51	-23.15	-18.44	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@0	-17.08	-17.51	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-14.66	-21.19	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@51	-20.75	-17.29	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	50@0	-18.74	-18.95	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	-16.88	-21.98	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@51	-21.12	-18.13	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	50@0	-17.97	-18.3	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@0	-15.81	-20.3	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@51	-21.09	-17.44	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	50@0	-19.21	-19.29	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	-16.63	-20.69	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@51	-20.75	-17.52	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	100@0	-15.31	-15.26	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@0	-17.5	-21.11	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@105	-22.33	-19.38	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	100@0	-19.49	-20.04	see graph	PASS

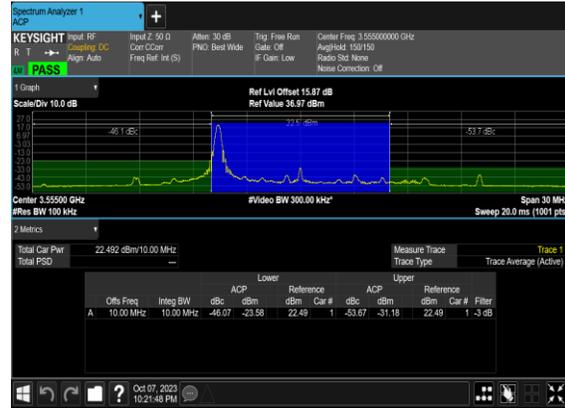
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	-18.52	-21.94	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@105	-22.17	-19.5	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	100@0	-14.57	-15.08	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-14.61	-15.7	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@105	-17.77	-16.36	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	-17.22	-17.62	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	-16.68	-19.63	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@105	-17.76	-16.35	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	100@0	-15.89	-16.9	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@0	-16.14	-18.19	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@105	-19.02	-17.08	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	100@0	-16.9	-17.11	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	-16.58	-18.11	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@105	-18.42	-16.79	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	216@0	-15.75	-15.98	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@0	-13.92	-17.65	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@215	-16.7	-14.12	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	216@0	-15.92	-15.77	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	-12.72	-16.27	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@215	-16.59	-14.28	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	216@0	-15.58	-15.6	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-13.49	-17.02	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@215	-17.63	-13.88	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	216@0	-14.82	-14.59	see graph	PASS

48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	-13.25	-16.9	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@215	-15.56	-13.52	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	216@0	-15.31	-15.31	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@0	-13.28	-15.94	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@215	-16.97	-13.75	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	216@0	-14.86	-14.61	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	-14.32	-16.32	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@215	-16.82	-13.87	see graph	PASS

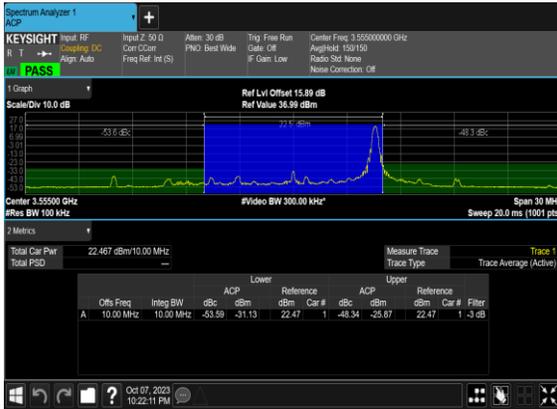
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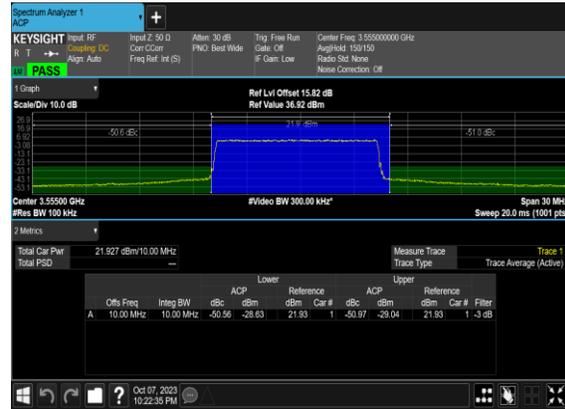
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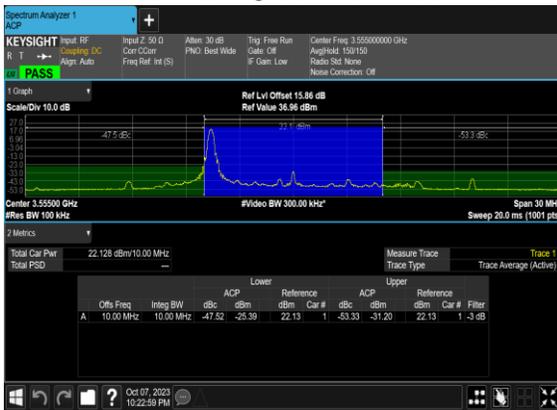
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N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



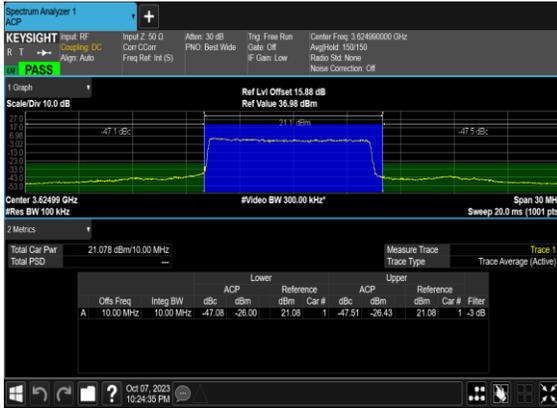
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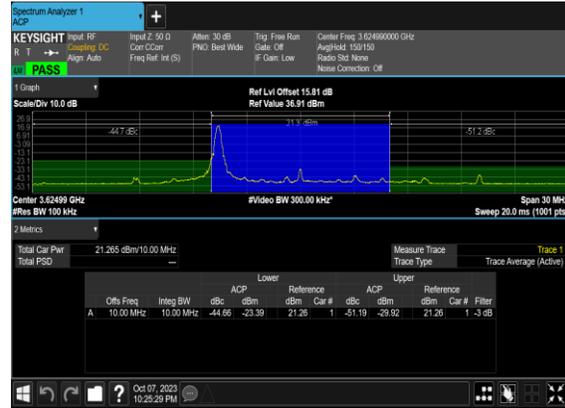
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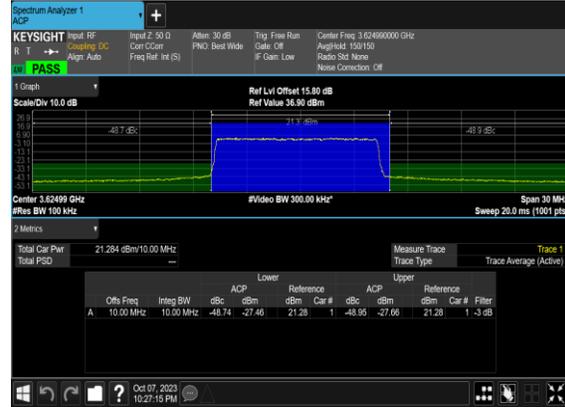
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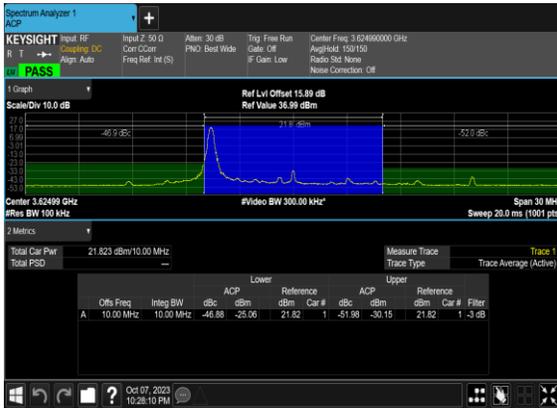
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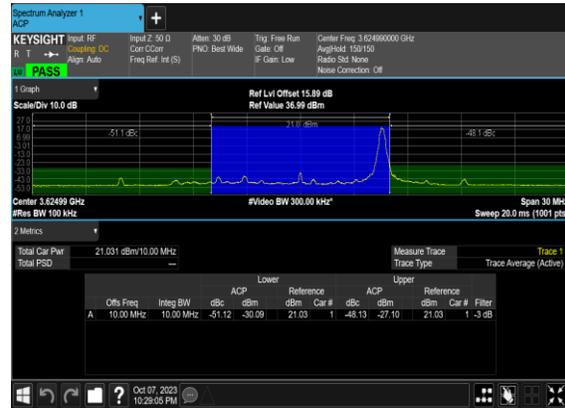
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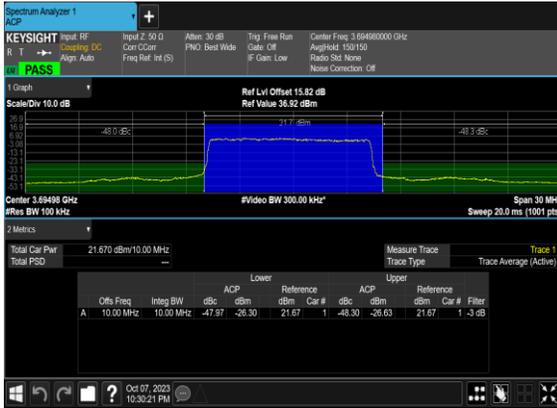
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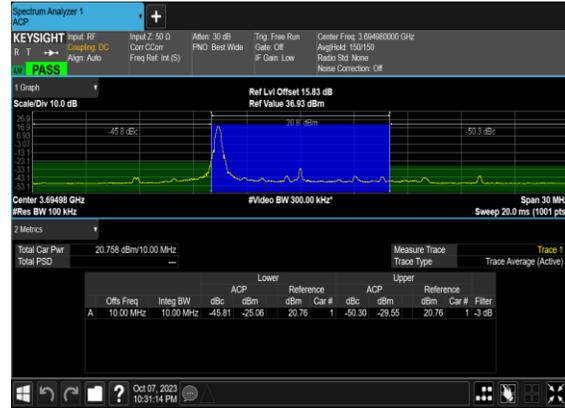
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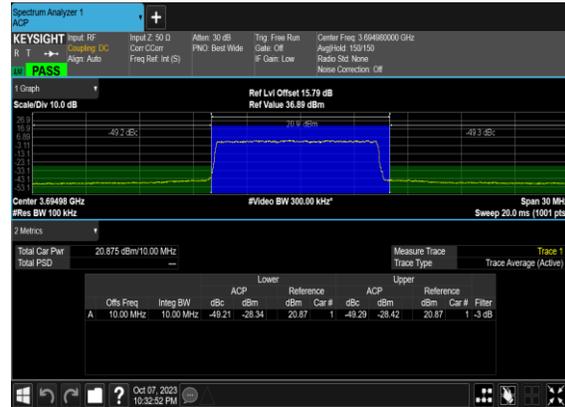
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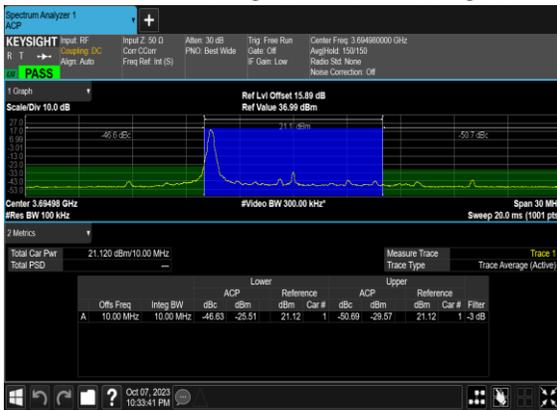
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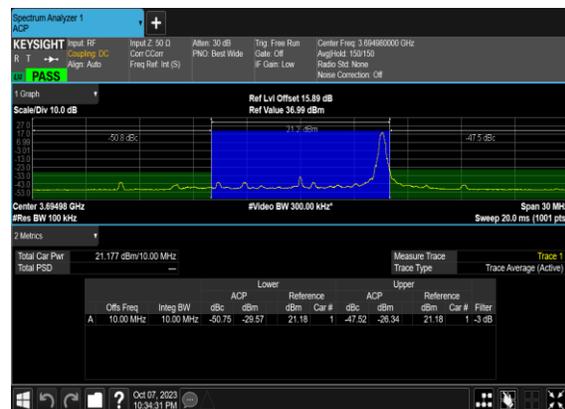
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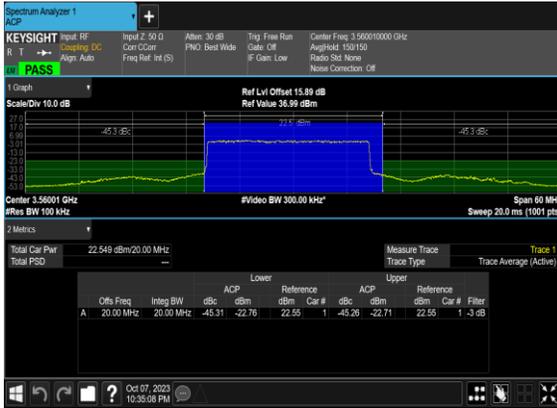
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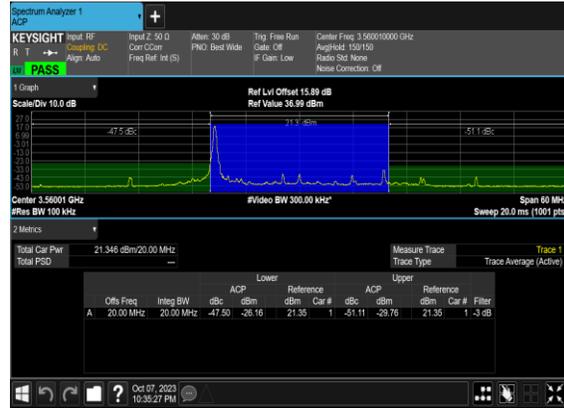
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_C
H



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



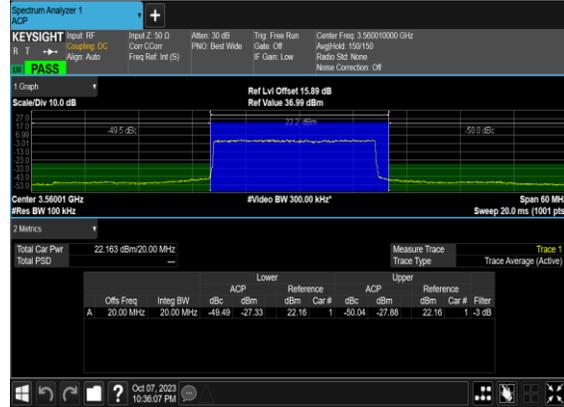
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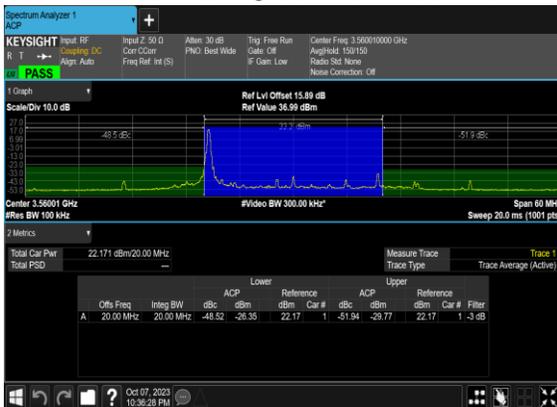
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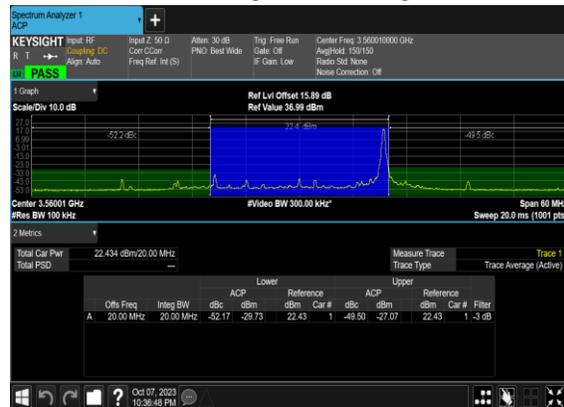
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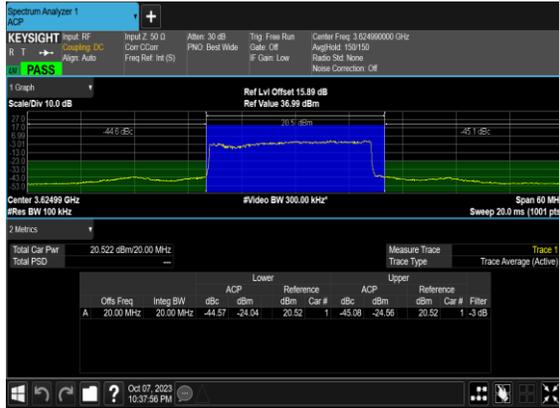
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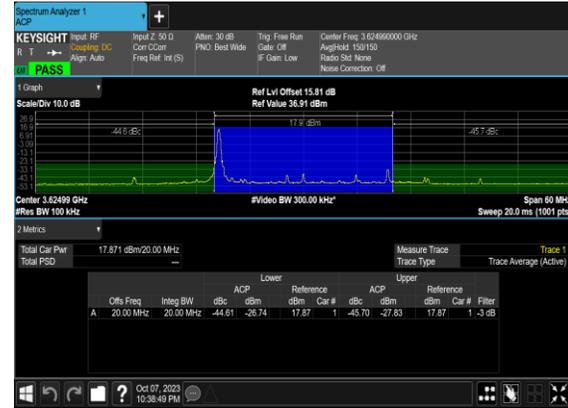
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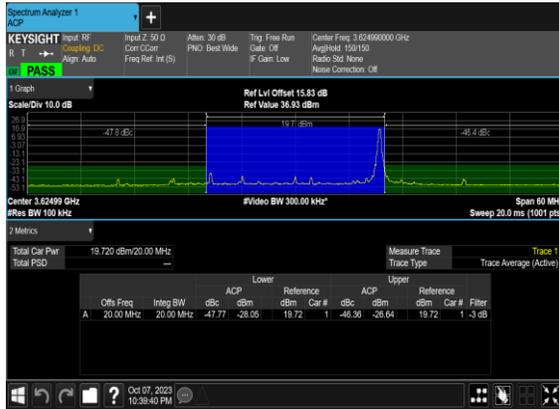
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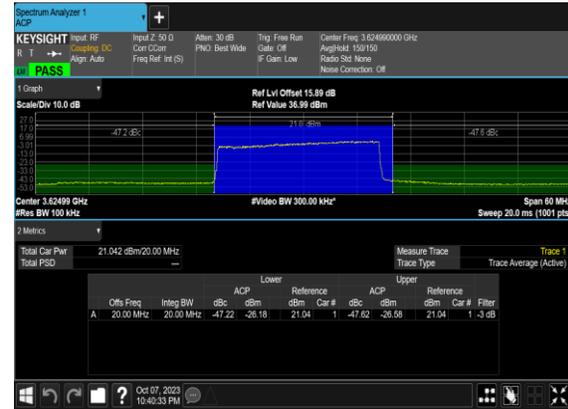
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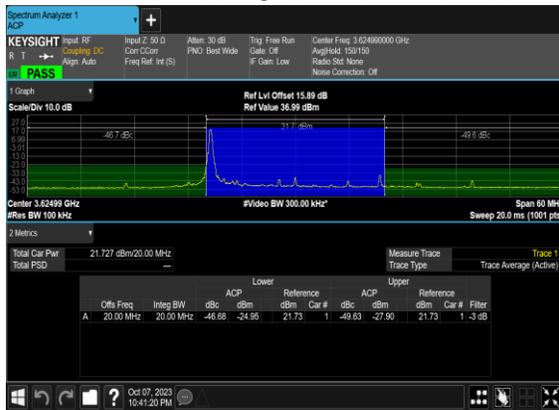
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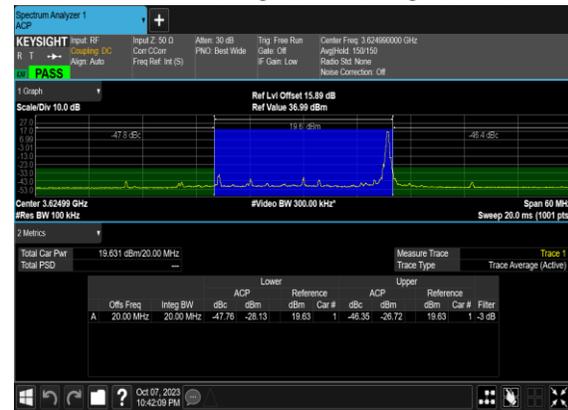
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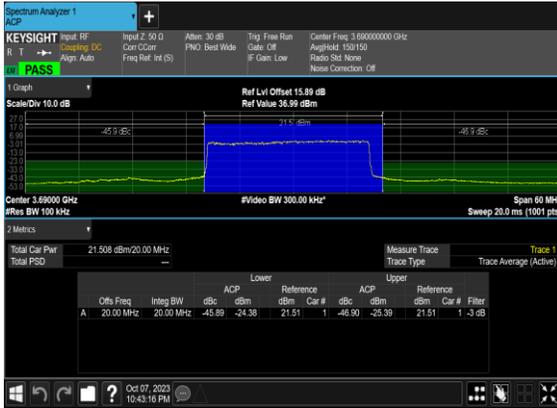
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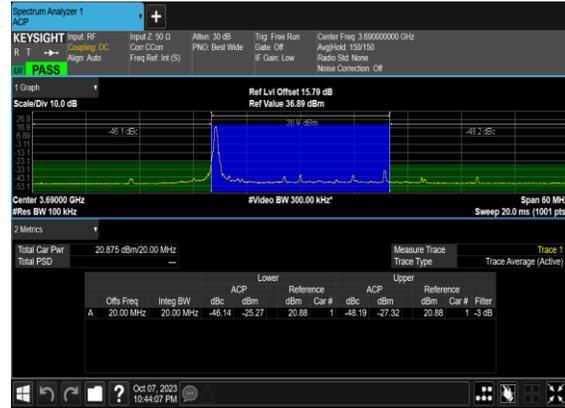
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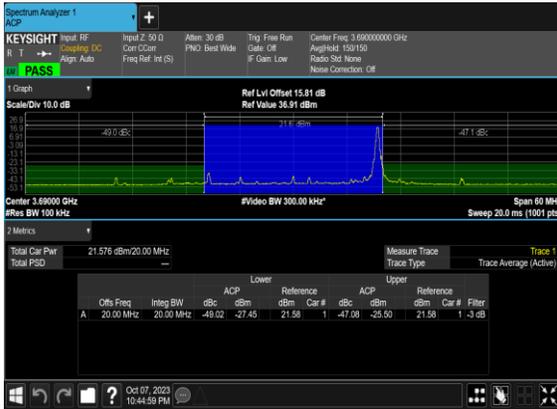
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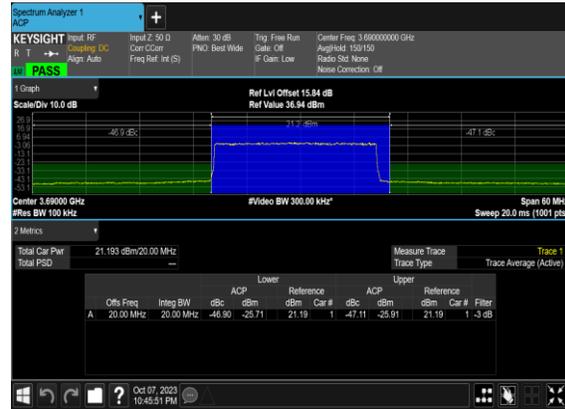
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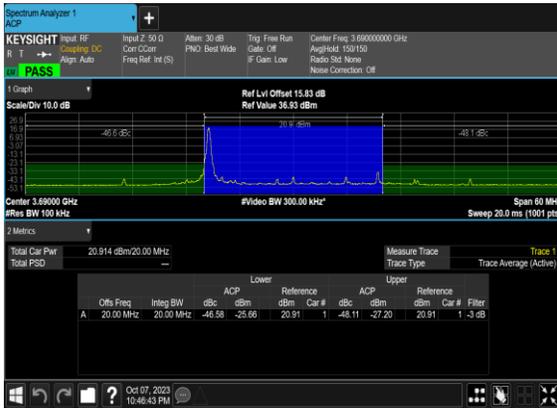
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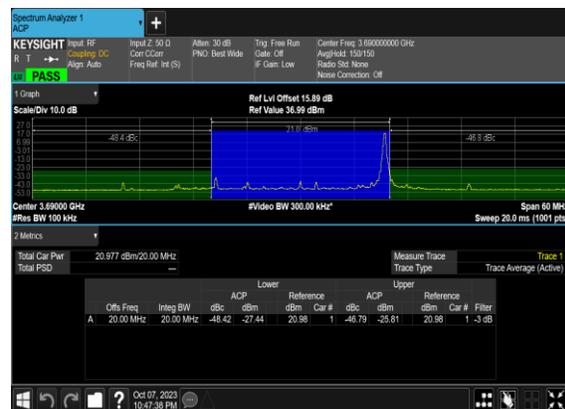
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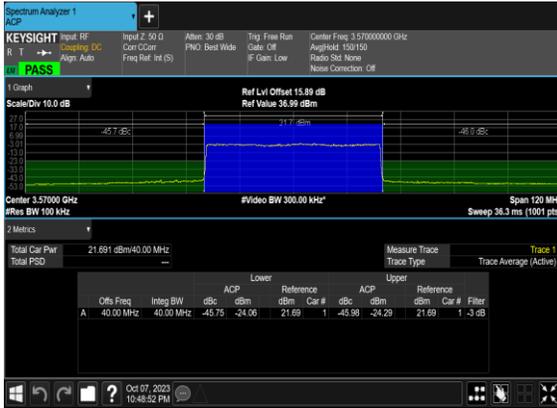
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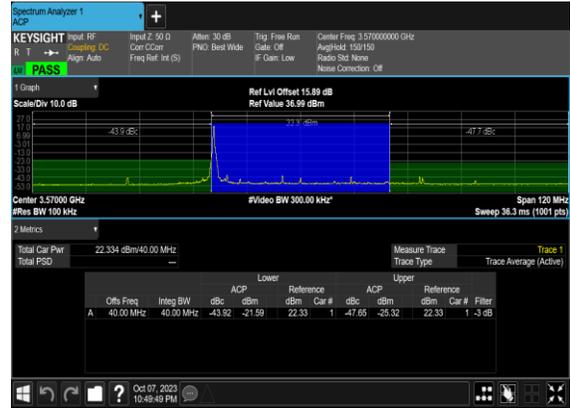
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_C
H



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



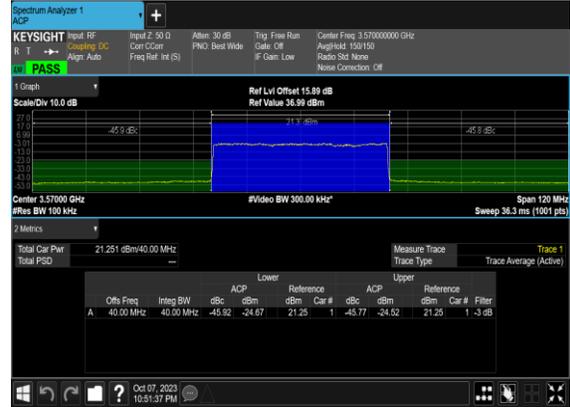
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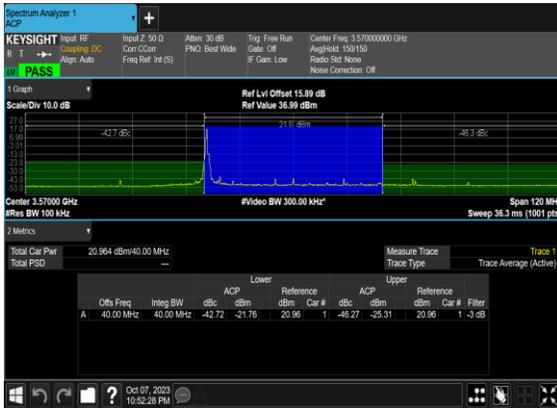
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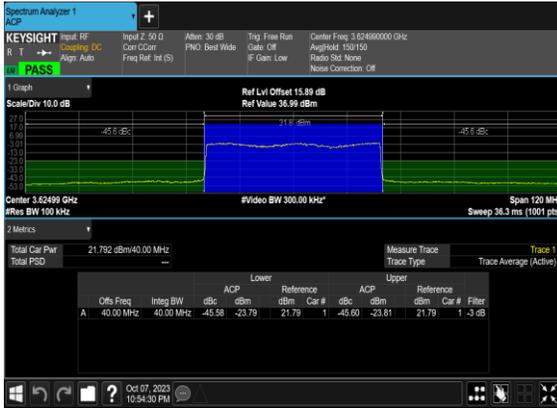
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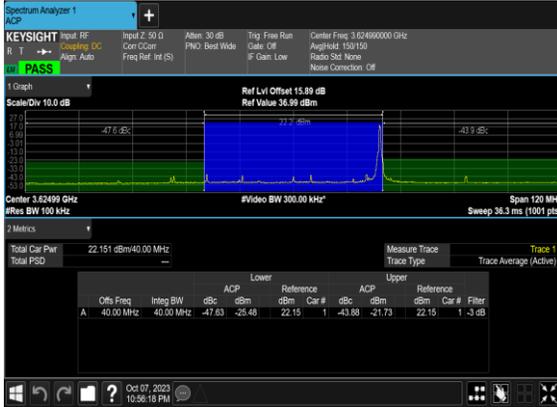
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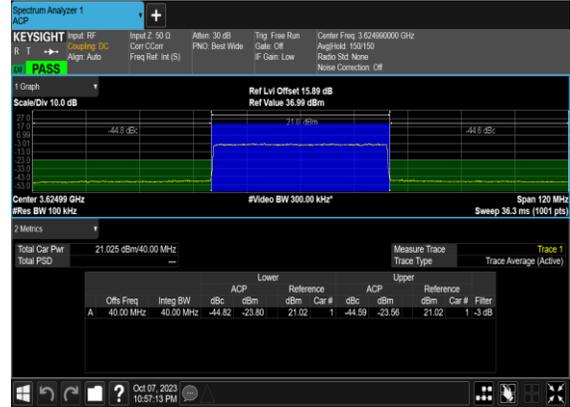
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N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



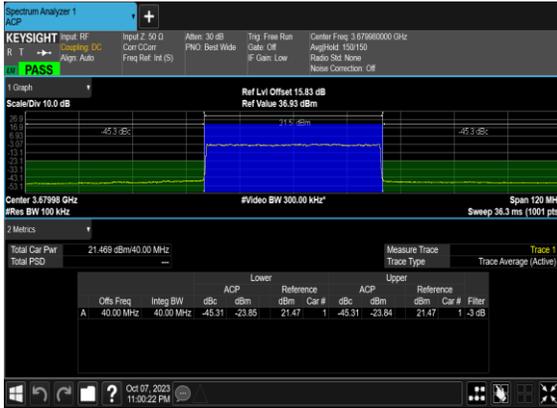
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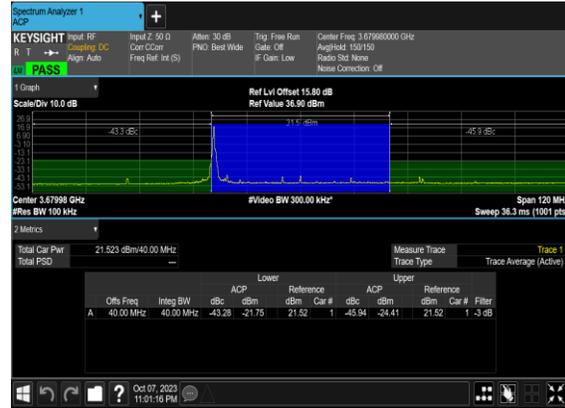
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N48(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



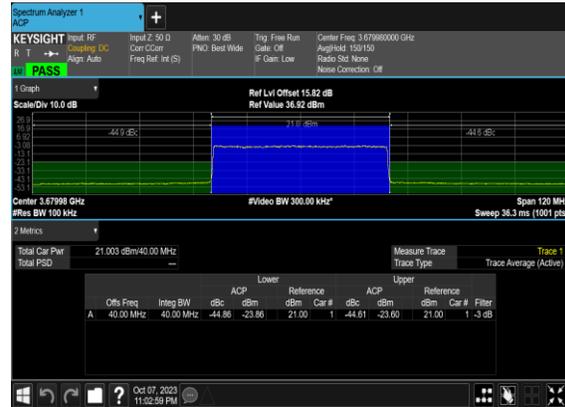
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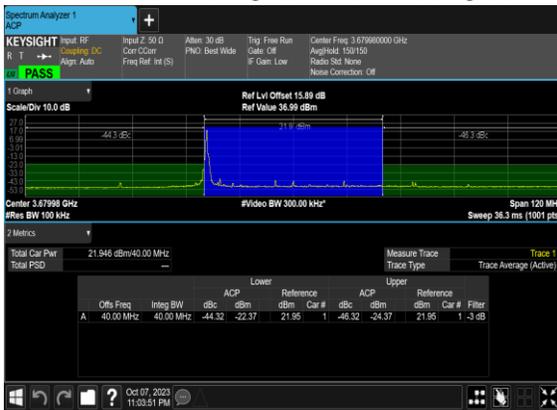
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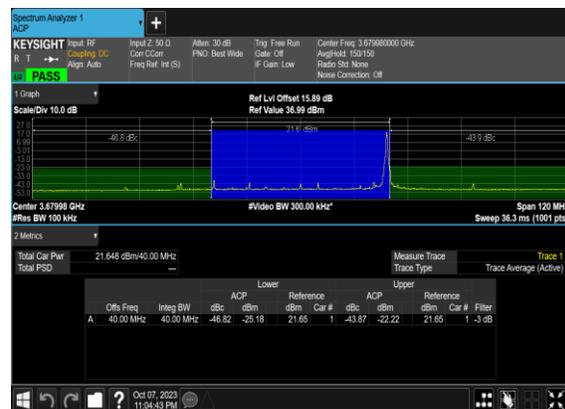
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N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_C
H



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



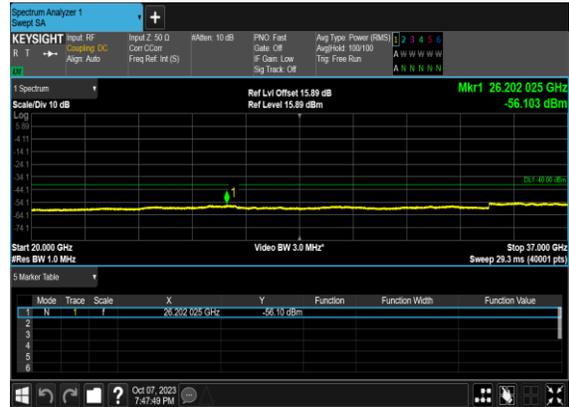
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



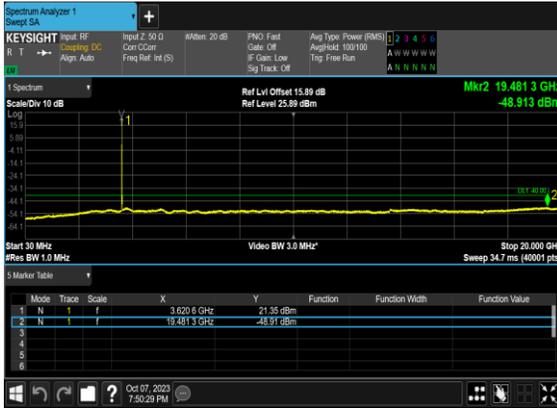
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



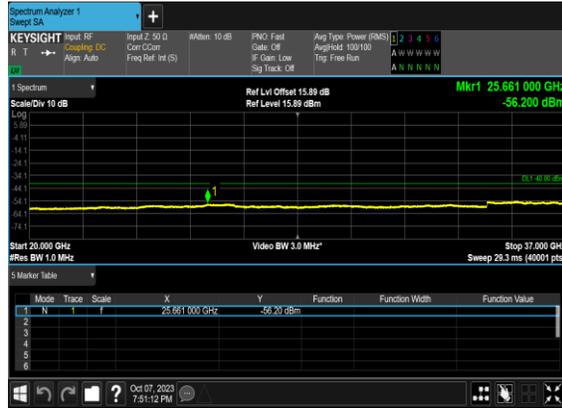
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



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

