



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2515-1, XT2515-2, XT2515-3, XT2515V
FCC ID : IHDT56AU5
STANDARD : 47 CFR Part 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Sep. 17, 2024 ~ Oct. 08, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

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

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	-	Peak-to-Average Ratio	—	Report Only	
3.6	§27.50 (a)(3)	EIRP	EIRP < 250mW/5MHz	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	Refer standard	PASS	-
3.9	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	< 70+10log ₁₀ (P[Watts])	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	< 70+10log ₁₀ (P[Watts])	PASS	Under limit 12.50 dB at 9222.00 MHz

Conformity Assessment Condition:

- 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.
- The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

Disclaimer:

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



1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2515-1, XT2515-2, XT2515-3, XT2515V
FCC ID	IHDT56AU5
IMEI Code	Conducted: 350213730022436/350213730022444 Radiation: 350213730021792/350213730021800
HW Version	DVT2
SW Version	VVE35.35
EUT Stage	Identical Prototype

Remark: There are four models, the four models are for different markets and no other difference.

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx Frequency	5G NR n30 : 2305 MHz ~ 2315 MHz
Rx Frequency	5G NR n30 : 2350 MHz ~ 2360 MHz
SCS / Bandwidth	15kHz : 5MHz / 10MHz
Antenna Gain	<Ant.1> : -6.5 dBi
Type of Modulation	DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM)

Note: 5G NR n30 supports SA mode only.

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

5G NR n30		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2307.5 ~ 2312.5	0.0505	4M47G7D	0.0431	4M47W7D
10	2310.0	0.0515	9M26G7D	0.0437	9M28W7D

Note: All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Site

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	Part2224_Ver5.0 200330	5.0
2.	03CH04-KS	AUDIX	E3	210616

1.9 Applied Standards

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

- ♦ 47 CFR Part 27(D)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 Power Meas License Digital Systems D01 v03r01

- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦

Remark:

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

1.10 Specification of Accessory

Accessories Information				
AC Adapter	Brand Name	Motorola(Aohai)	Model Name	MC-201L
Battery	Brand Name	Motorola(NVT)	Model Name	RW50
USB Cable 1	Brand Name	Motorola(Saibao)	Model Name	S928E42856
USB Cable 2	Brand Name	Motorola(Naiyi)	Model Name	S928E42857
USB Cable 3	Brand Name	Motorola(Saibao)	Model Name	S928E44701
USB Cable 4	Brand Name	Motorola(Naiyi)	Model Name	S928E44702

2 Test Configuration of Equipment Under Test

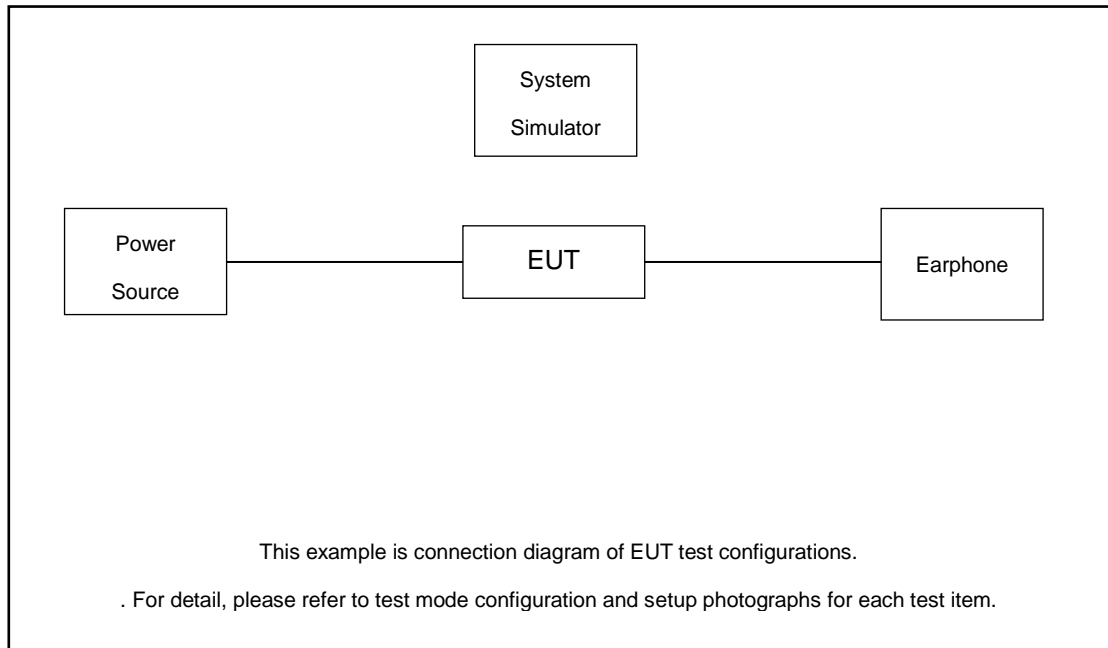
2.1 Test Mode

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

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

Conducted Test Cases	Band	Bandwidth (MHz)						Modulation					RB #			Test Channel			
		1.4	3	5	10	15	20	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H	
Max. Output Power	n30	-	-	V		-	-	V	V	V	V	V	V	V	V	V	V	V	V
		-	-		V	-	-	V	V	V	V	V	V	V	V		V		
Peak-to-Average Ratio	n30	-	-		V	-	-	V	V						V	V			
E.I.R.P	n30	-	-	V		-	-	V	V	V	V	V	V	V	V	V	V	V	V
		-	-		V	-	-	V	V	V	V	V	V	V	V		V		
26dB and 99% Bandwidth	n30	-	-	V		-	-		V	V	V	V			V		V		
		-	-		V	-	-		V	V	V	V			V	V			
Conducted Band Edge	n30	-	-	V		-	-	V	V				V		V	V		V	
		-	-		V	-	-	V	V				V		V	V			
Conducted Spurious Emission	n30	-	-	V		-	-	V	V				V			V	V	V	
		-	-		V	-	-	V	V				V			V			
Frequency Stability	n30	-	-		V	-	-		V						V		V		
Radiated Spurious Emission	n30	Worst case														V	V	V	
Note	<ol style="list-style-type: none"> The mark "v " means that this configuration is chosen for testing The mark "- " means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. Frequency Stability : Normal Voltage = 3.8V ; Low Voltage =3.6V. ; High Voltage =4.2V 																		

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	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 and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 6.0 dB and 20dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 6.0 + 20 = 26.0 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G NR n30 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	462000	-
	Frequency	-	2310	-
5	Channel	461500	462000	462500
	Frequency	2307.5	2310	2312.5

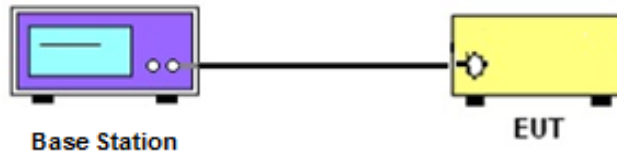
3 Conducted Test Items

3.1 Measuring Instruments

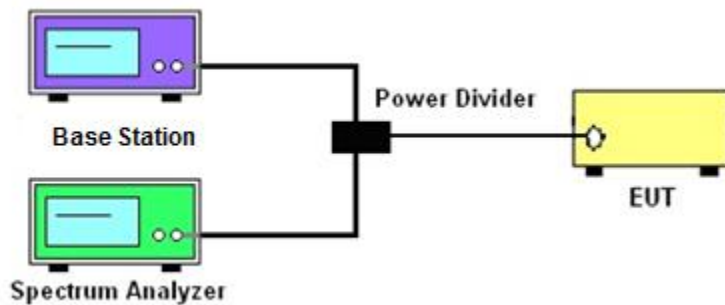
See list of measuring instruments of this test report.

3.2 Test Setup

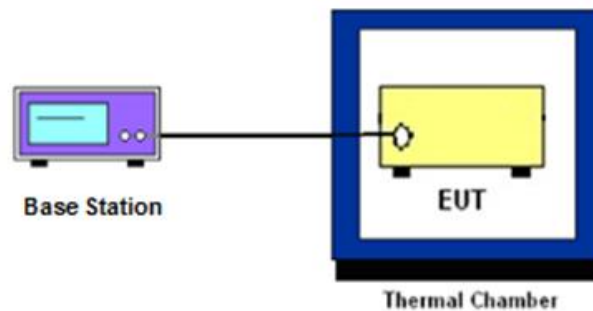
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 EIRP

3.6.1 Description of EIRP

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. $EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.7 Occupied Bandwidth

3.7.1 Description of Occupied Bandwidth Measurement

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

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

3.7.2 Test Procedures

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

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

27.53 (a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

- (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;
- (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

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

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

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

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $70 + 10 \log (P)$ dB.

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

3.9.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $70 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [70 + 10\log(P)]$ (dB)
= $[30 + 10\log(P)]$ (dBm) - $[70 + 10\log(P)]$ (dB)
= -40dBm

3.10 Frequency Stability Measurement

3.10.1 Description of Frequency Stability Measurement

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

3.10.2 Test Procedures for Temperature Variation

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

3.10.3 Test Procedures for Voltage Variation

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

4 Radiated Test Items

4.1 Measuring Instruments

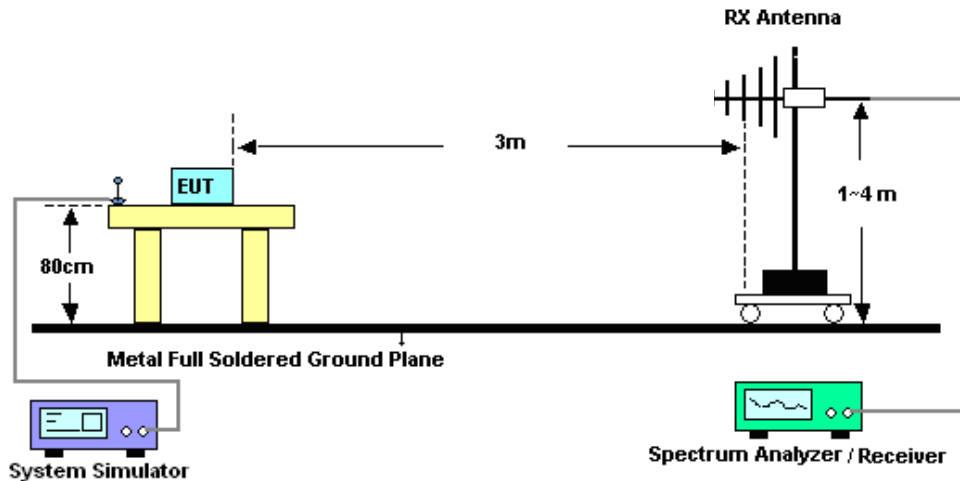
See list of measuring instruments of this test report.

4.2 Test Setup

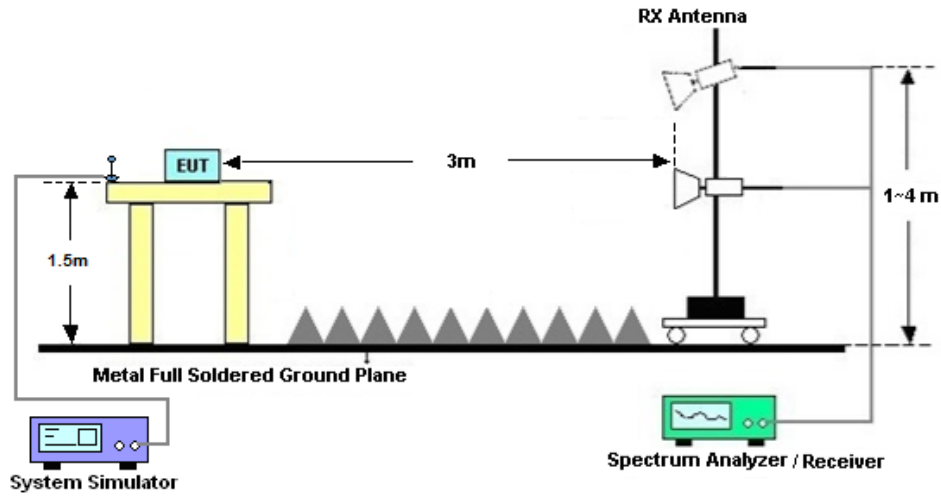
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $70 + 10 \log(P)$ dB.

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.

$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$

$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$

10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $70 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [70 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [70 + 10\log(P)] \text{ (dB)}$$

$$= -40\text{dBm.}$$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Sep. 17, 2024~ Oct. 05, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Sep. 17, 2024~ Oct. 05, 2024	NCR	Conducted (TH01-KS)
Temperature & humidity	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Sep. 17, 2024~ Oct. 05, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 11, 2023	Oct. 08, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Oct. 08, 2024	Sep. 07, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 06, 2023	Oct. 08, 2024	Dec. 05, 2024	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 23, 2023	Oct. 08, 2024	Oct. 22, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Oct. 08, 2024	Jan. 26, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 03, 2024	Oct. 08, 2024	Jan. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060728	18~40GHz	Jan. 02, 2024	Oct. 08, 2024	Jan. 01, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 11, 2023	Oct. 08, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz-18Ghz	Oct. 11, 2023	Oct. 08, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Oct. 08, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Oct. 08, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Oct. 08, 2024	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.50 dB
Frequency Stability	±0.04 ppm

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.30 dB
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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))	2.83 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.82 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

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

Software Version: 23.06.1602

Transmitter Conducted Output Power and EIRP, (G_T - L_c)=-6.5dB

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
30	15	10	462000	2310	DFT-s-OFDM PI/2 BPSK	25@12	23.57	17.07	0.0509
30	15	10	462000	2310	DFT-s-OFDM PI/2 BPSK	1@1	23.56	17.06	0.0508
30	15	10	462000	2310	DFT-s-OFDM PI/2 BPSK	1@50	23.54	17.04	0.0506
30	15	10	462000	2310	DFT-s-OFDM QPSK	25@12	23.61	17.11	0.0514
30	15	10	462000	2310	DFT-s-OFDM QPSK	1@1	23.42	16.92	0.0492
30	15	10	462000	2310	DFT-s-OFDM QPSK	1@50	23.46	16.96	0.0497
30	15	10	462000	2310	DFT-s-OFDM 16 QAM	25@12	22.63	16.13	0.0410
30	15	10	462000	2310	DFT-s-OFDM 16 QAM	1@1	22.90	16.40	0.0437
30	15	10	462000	2310	DFT-s-OFDM 16 QAM	1@50	22.83	16.33	0.0430
30	15	10	462000	2310	DFT-s-OFDM 64 QAM	25@12	21.14	14.64	0.0291
30	15	10	462000	2310	DFT-s-OFDM 64 QAM	1@1	20.20	13.70	0.0234
30	15	10	462000	2310	DFT-s-OFDM 64 QAM	1@50	20.13	13.63	0.0231
30	15	10	462000	2310	DFT-s-OFDM 256 QAM	25@12	19.00	12.50	0.0178
30	15	10	462000	2310	DFT-s-OFDM 256 QAM	1@1	19.07	12.57	0.0181
30	15	10	462000	2310	DFT-s-OFDM 256 QAM	1@50	19.04	12.54	0.0179
30	15	10	462000	2310	CP-OFDM QPSK	26@13	22.02	15.52	0.0356
30	15	10	462000	2310	CP-OFDM QPSK	1@1	22.03	15.53	0.0357
30	15	10	462000	2310	CP-OFDM QPSK	1@50	22.02	15.52	0.0356
30	15	10	462000	2310	DFT-s-OFDM PI/2 BPSK	25@12	23.56	17.06	0.0508
30	15	10	462000	2310	DFT-s-OFDM PI/2 BPSK	1@1	23.51	17.01	0.0502
30	15	10	462000	2310	DFT-s-OFDM PI/2 BPSK	1@50	23.53	17.03	0.0505
30	15	10	462000	2310	DFT-s-OFDM QPSK	25@12	23.61	17.11	0.0514
30	15	10	462000	2310	DFT-s-OFDM QPSK	1@1	23.41	16.91	0.0491
30	15	10	462000	2310	DFT-s-OFDM QPSK	1@50	23.47	16.97	0.0498
30	15	10	462000	2310	DFT-s-OFDM 16 QAM	25@12	22.62	16.12	0.0409
30	15	10	462000	2310	DFT-s-OFDM 16 QAM	1@1	22.86	16.36	0.0433
30	15	10	462000	2310	DFT-s-OFDM 16 QAM	1@50	22.86	16.36	0.0433
30	15	10	462000	2310	DFT-s-OFDM 64 QAM	25@12	21.12	14.62	0.0290
30	15	10	462000	2310	DFT-s-OFDM 64 QAM	1@1	21.38	14.88	0.0308
30	15	10	462000	2310	DFT-s-OFDM 64 QAM	1@50	21.33	14.83	0.0304
30	15	10	462000	2310	DFT-s-OFDM 256 QAM	25@12	19.00	12.50	0.0178
30	15	10	462000	2310	DFT-s-OFDM 256 QAM	1@1	19.06	12.56	0.0180
30	15	10	462000	2310	DFT-s-OFDM 256 QAM	1@50	19.04	12.54	0.0179
30	15	10	462000	2310	CP-OFDM QPSK	26@13	21.99	15.49	0.0354
30	15	10	462000	2310	CP-OFDM QPSK	1@1	22.04	15.54	0.0358
30	15	10	462000	2310	CP-OFDM QPSK	1@50	22.00	15.50	0.0355
30	15	10	462000	2310	DFT-s-OFDM PI/2 BPSK	25@12	23.55	17.05	0.0507



30	15	10	462000	2310	DFT-s-OFDM PI/2 BPSK	1@1	23.56	17.06	0.0508
30	15	10	462000	2310	DFT-s-OFDM PI/2 BPSK	1@50	23.53	17.03	0.0505
30	15	10	462000	2310	DFT-s-OFDM QPSK	25@12	23.62	17.12	0.0515
30	15	10	462000	2310	DFT-s-OFDM QPSK	1@1	23.42	16.92	0.0492
30	15	10	462000	2310	DFT-s-OFDM QPSK	1@50	23.43	16.93	0.0493
30	15	10	462000	2310	DFT-s-OFDM 16 QAM	25@12	22.60	16.10	0.0407
30	15	10	462000	2310	DFT-s-OFDM 16 QAM	1@1	22.87	16.37	0.0434
30	15	10	462000	2310	DFT-s-OFDM 16 QAM	1@50	22.86	16.36	0.0433
30	15	10	462000	2310	DFT-s-OFDM 64 QAM	25@12	21.15	14.65	0.0292
30	15	10	462000	2310	DFT-s-OFDM 64 QAM	1@1	21.22	14.72	0.0296
30	15	10	462000	2310	DFT-s-OFDM 64 QAM	1@50	21.28	14.78	0.0301
30	15	10	462000	2310	DFT-s-OFDM 256 QAM	25@12	18.99	12.49	0.0177
30	15	10	462000	2310	DFT-s-OFDM 256 QAM	1@1	19.06	12.56	0.0180
30	15	10	462000	2310	DFT-s-OFDM 256 QAM	1@50	19.03	12.53	0.0179
30	15	10	462000	2310	CP-OFDM QPSK	26@13	22.00	15.50	0.0355
30	15	10	462000	2310	CP-OFDM QPSK	1@1	22.07	15.57	0.0361
30	15	10	462000	2310	CP-OFDM QPSK	1@50	22.01	15.51	0.0356
30	15	5	461500	2307.5	DFT-s-OFDM PI/2 BPSK	1@1	23.41	16.91	0.0491
30	15	5	461500	2307.5	DFT-s-OFDM QPSK	1@1	23.34	16.84	0.0483
30	15	5	461500	2307.5	DFT-s-OFDM 16 QAM	1@1	22.79	16.29	0.0426
30	15	5	462000	2310	DFT-s-OFDM PI/2 BPSK	1@1	23.50	17.00	0.0501
30	15	5	462000	2310	DFT-s-OFDM QPSK	1@1	23.41	16.91	0.0491
30	15	5	462000	2310	DFT-s-OFDM 16 QAM	1@1	22.80	16.30	0.0427
30	15	5	462500	2312.5	DFT-s-OFDM PI/2 BPSK	1@1	23.52	17.02	0.0504
30	15	5	462500	2312.5	DFT-s-OFDM QPSK	1@1	23.53	17.03	0.0505
30	15	5	462500	2312.5	DFT-s-OFDM 16 QAM	1@1	22.84	16.34	0.0431



Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	100@0	0.0062	PASS	NV
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	100@0	-0.0048	PASS	LV
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	100@0	-0.0068	PASS	HV
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	100@0	0.0024	PASS	-30°C
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	100@0	0.0036	PASS	-20°C
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	100@0	-0.0027	PASS	-10°C
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	100@0	0.0020	PASS	0°C
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	100@0	-0.0052	PASS	10°C
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	100@0	-0.0043	PASS	20°C
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	100@0	0.0029	PASS	30°C
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	100@0	0.0037	PASS	40°C
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	100@0	-0.0052	PASS	50°C



Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
30	15	10	462000	2310.0	DFT-s-OFDM PI/2 BPSK	50@0	4.41	13	PASS
30	15	10	462000	2310.0	DFT-s-OFDM PI/2 BPSK	1@0	4.19	13	PASS
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	50@0	8.37	13	PASS
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	1@0	5.63	13	PASS



Occupied Bandwidth

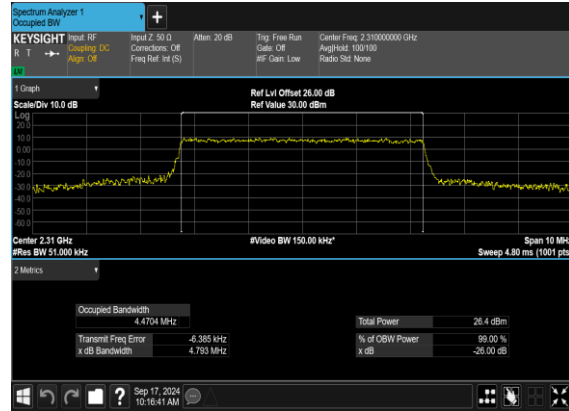
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
30	15	5	462000	2310.0	CP-OFDM QPSK	25@0	4.4665	4.797
30	15	5	462000	2310.0	CP-OFDM 16 QAM	25@0	4.4704	4.793
30	15	5	462000	2310.0	CP-OFDM 64 QAM	25@0	4.4651	4.753
30	15	5	462000	2310.0	CP-OFDM 256 QAM	25@0	4.4656	4.816
30	15	10	462000	2310.0	CP-OFDM QPSK	52@0	9.2649	9.725
30	15	10	462000	2310.0	CP-OFDM 16 QAM	52@0	9.2694	9.738
30	15	10	462000	2310.0	CP-OFDM 64 QAM	52@0	9.2804	9.69
30	15	10	462000	2310.0	CP-OFDM 256 QAM	52@0	9.2664	9.714



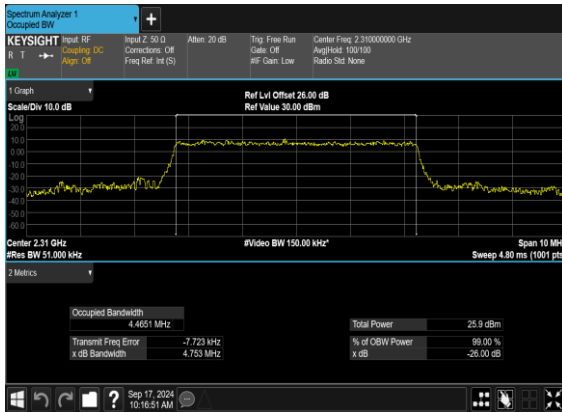
N30(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



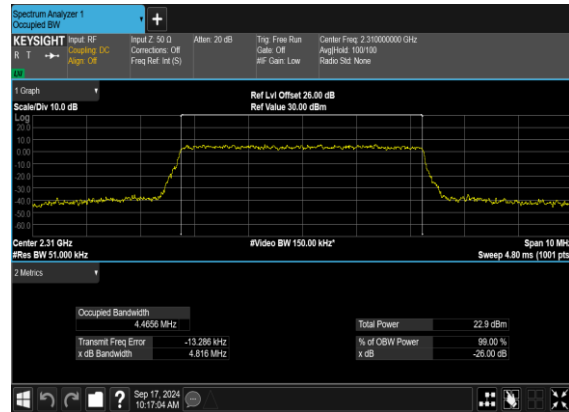
N30(5M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



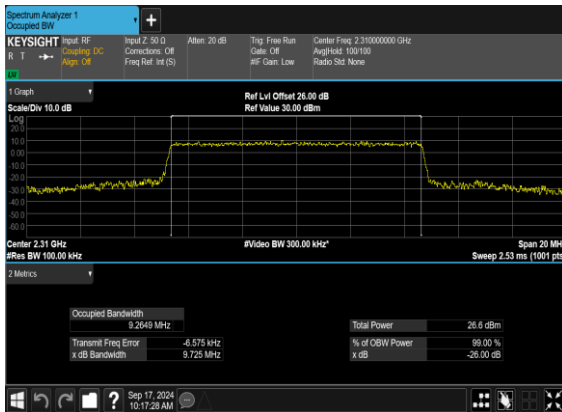
N30(5M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



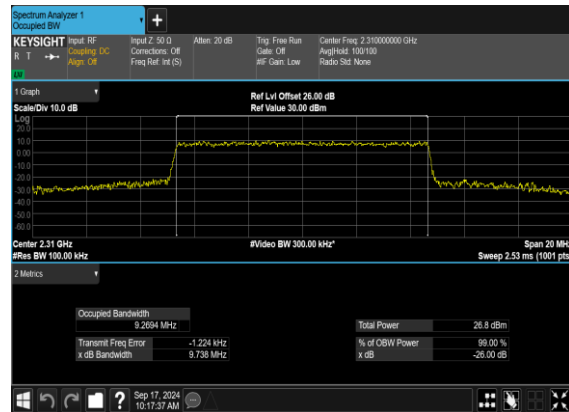
N30(5M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



N30(10M)_CP-OFDM_QPSK_Outer_Full_Low_CH



N30(10M)_CP-OFDM_16QAM_Outer_Full_Low_CH

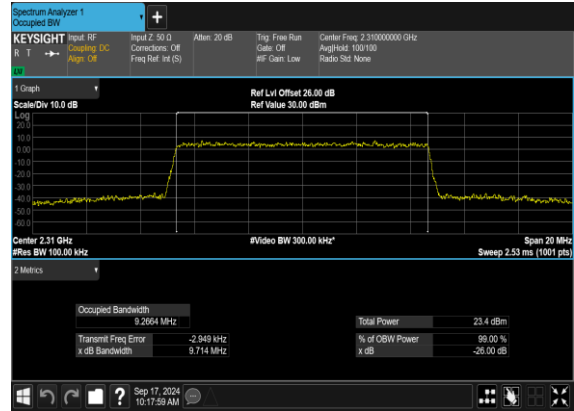




N30(10M)_CP-OFDM_64
QAM_Outer_Full_Low_CH



N30(10M)_CP-OFDM_256
QAM_Outer_Full_Low_CH





Conducted Spurious Emissions

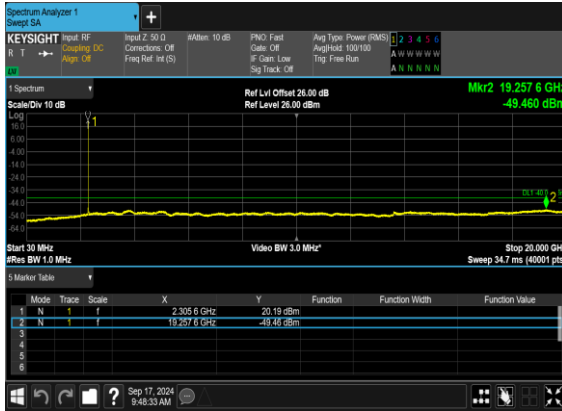
Table with 9 columns: NR Band, SCS (kHz), Bandwidth (MHz), Arfcn, Freq (MHz), Modulation, RB, Result, Verdict. It contains 40 rows of test data with various modulation types like DFT-s-OFDM BPSK and QPSK.



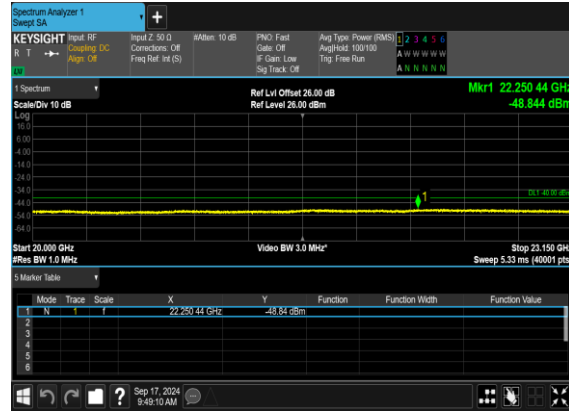
30	15	10	462000	2310.0	DFT-s-OFDM BPSK	1@0	see graph	---
30	15	10	462000	2310.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	---
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



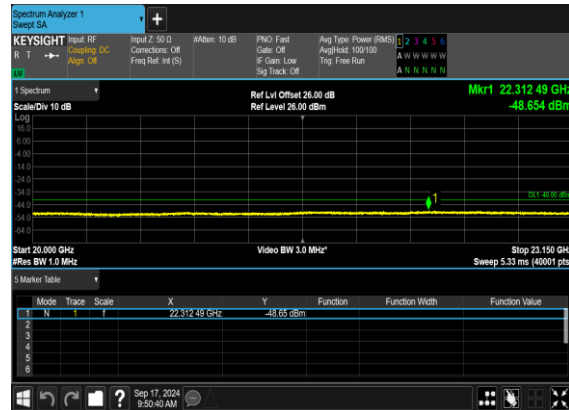
N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



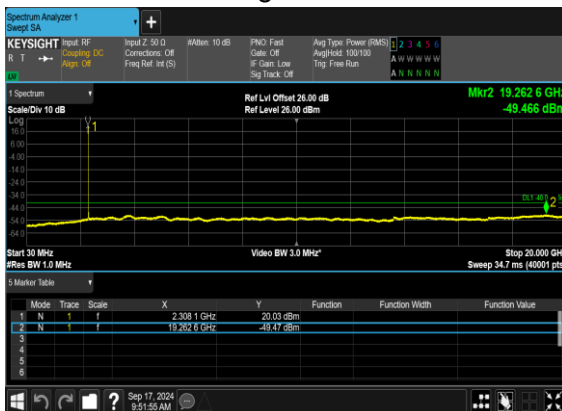
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



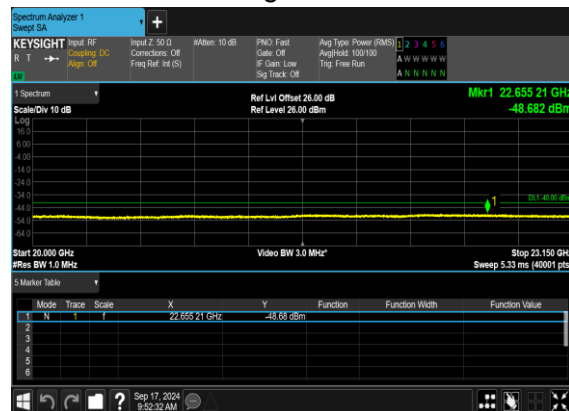
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N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

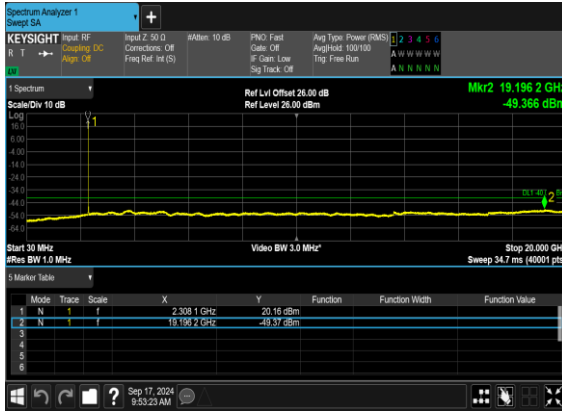


N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

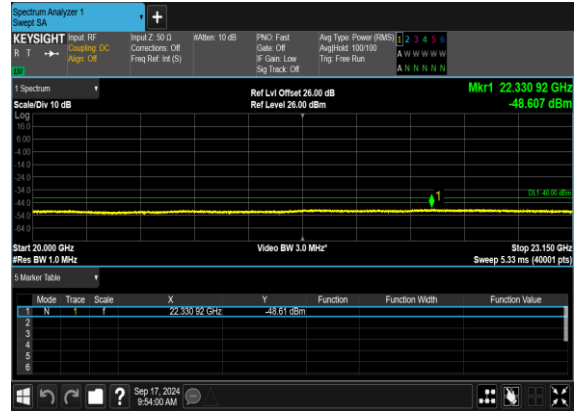




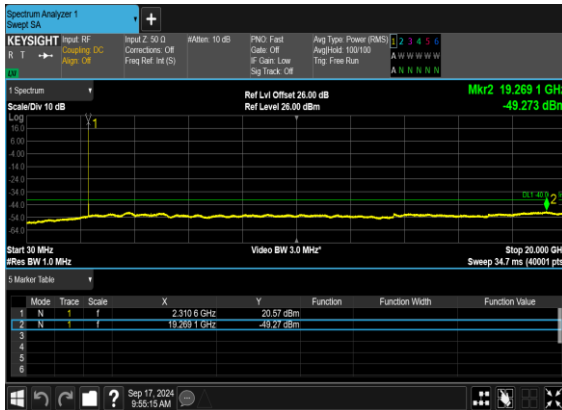
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



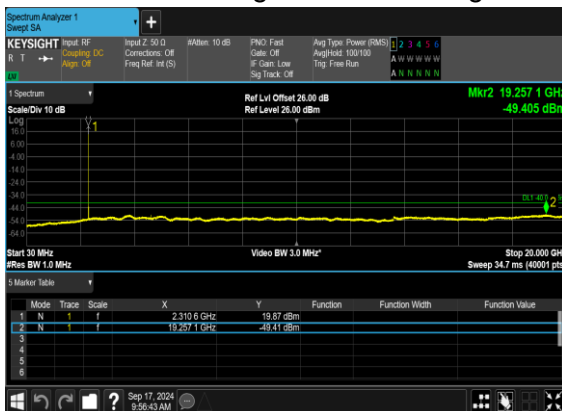
N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

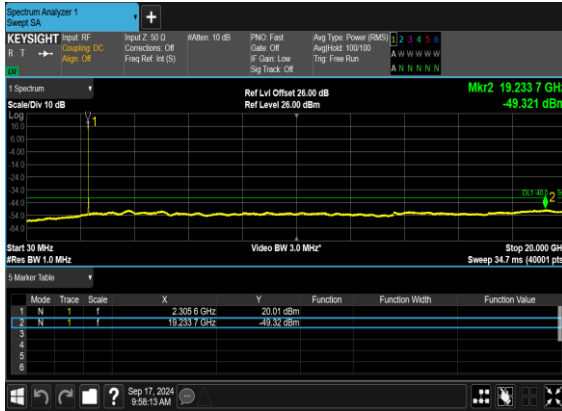


N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

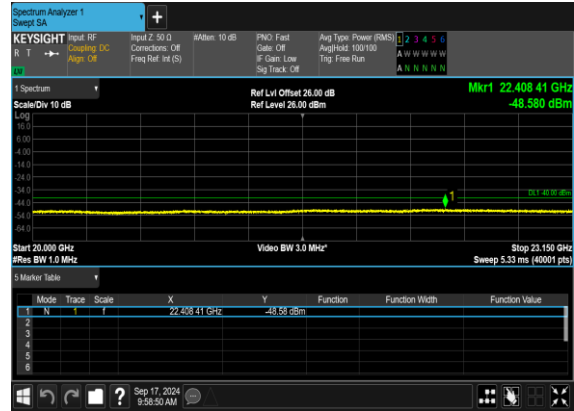




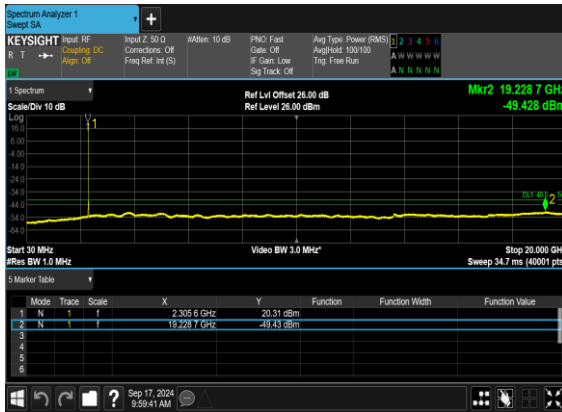
N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



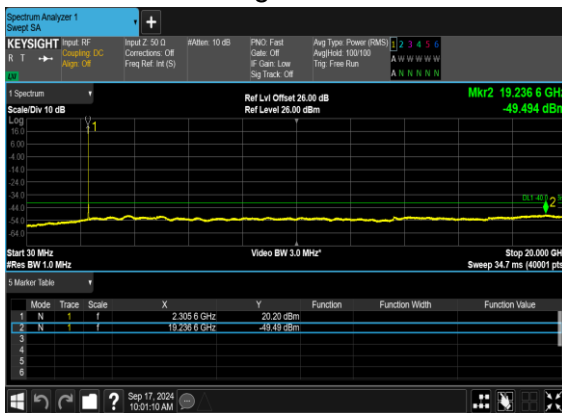
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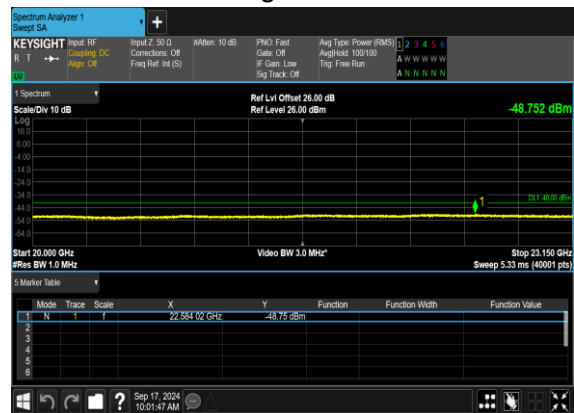
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N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

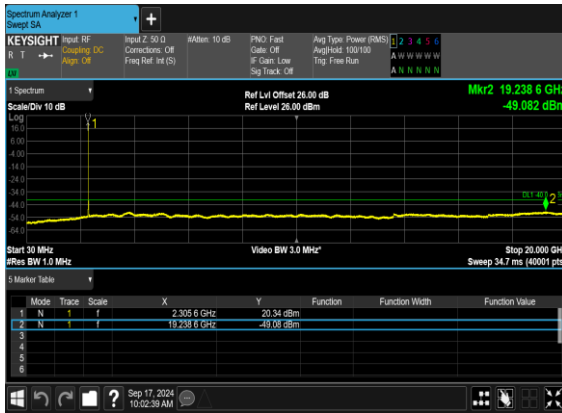


N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

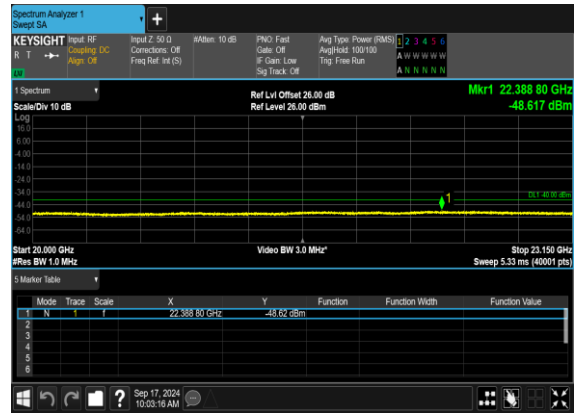




N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



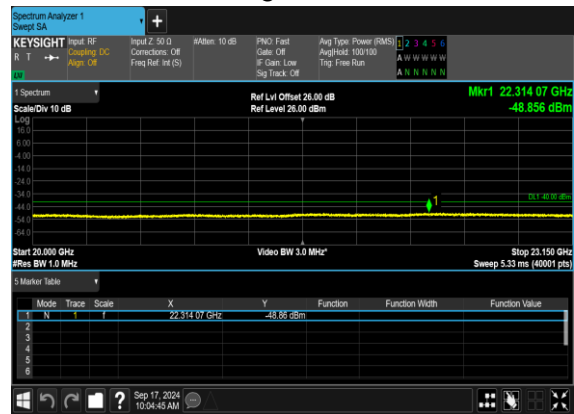
N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



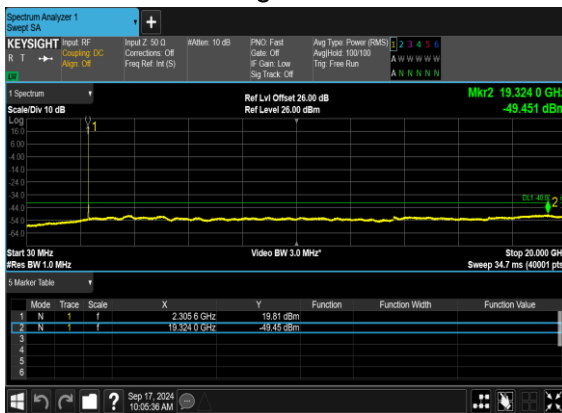
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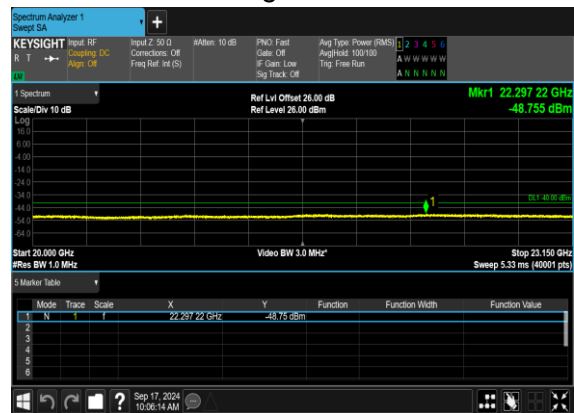
N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



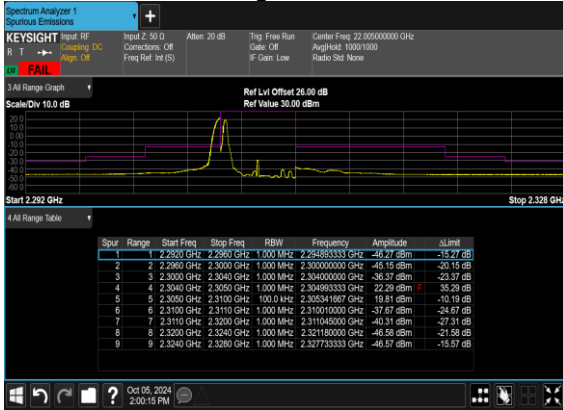


Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
30	15	5	461500	2307.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	5	461500	2307.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	5	461500	2307.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
30	15	5	461500	2307.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
30	15	5	462500	2312.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
30	15	5	462500	2312.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
30	15	5	462500	2312.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
30	15	5	462500	2312.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
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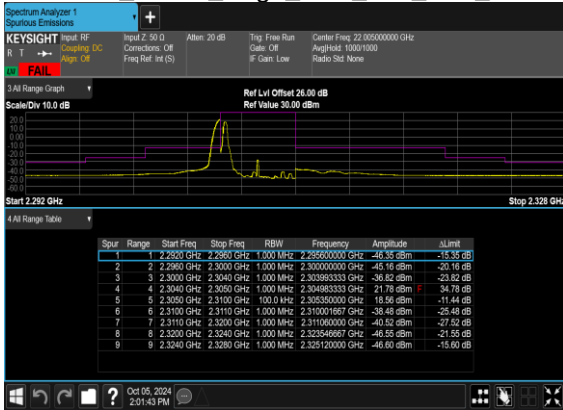
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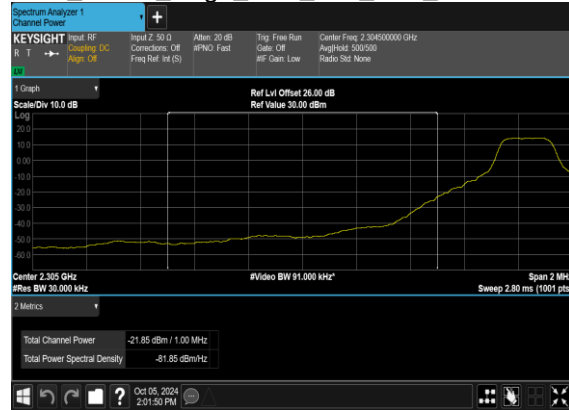
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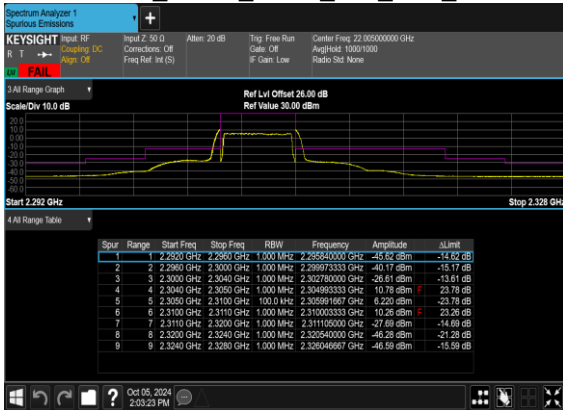
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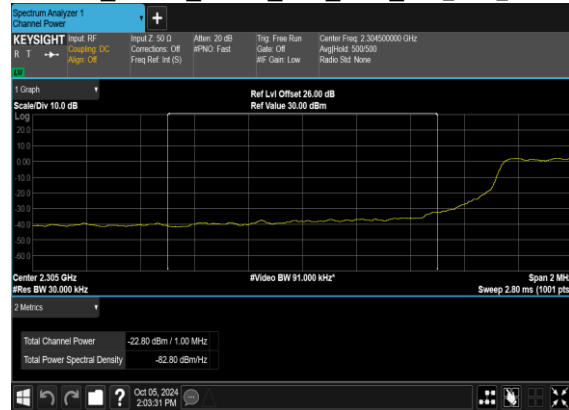
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N30(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

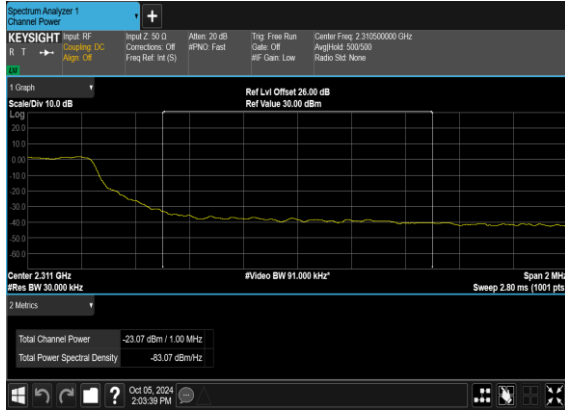


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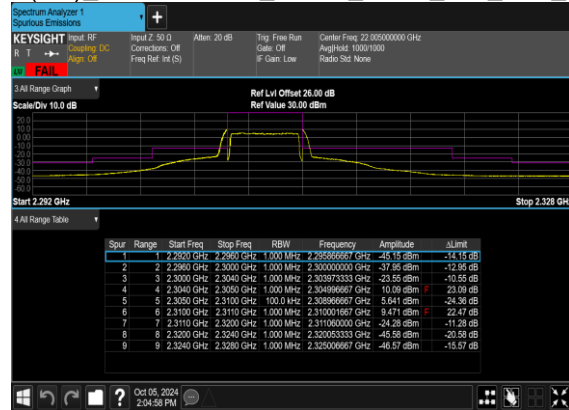




N30(5M)_DFT-s-OFDM BPSK Outer_Full_Low_CH CHP_PASS



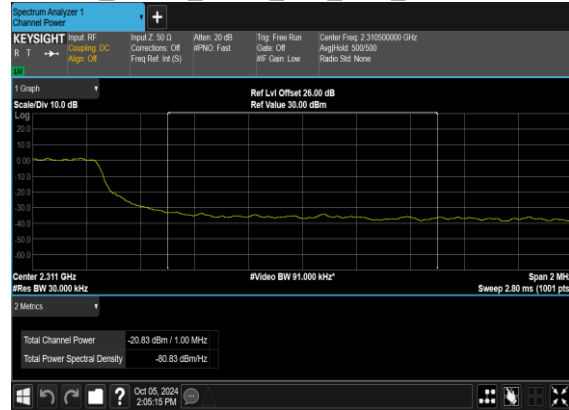
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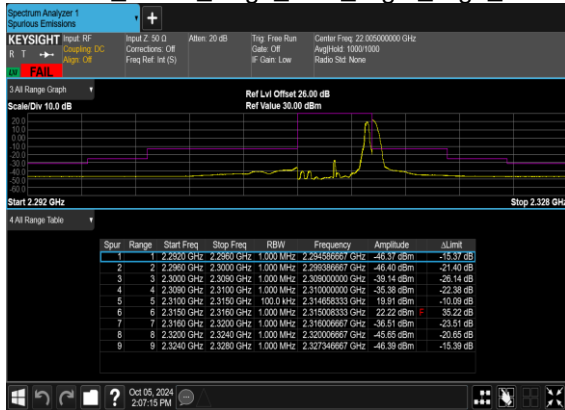
N30(5M)_DFT-s-OFDM_QPSK Outer_Full_Low_CH CHP_PASS



N30(5M)_DFT-s-OFDM_QPSK Outer_Full_Low_CH CHP_PASS



N30(5M)_DFT-s-OFDM BPSK Edge_1RB_Right_High_CH



N30(5M)_DFT-s-OFDM BPSK Edge_1RB_Right_High_CH CHP_PASS

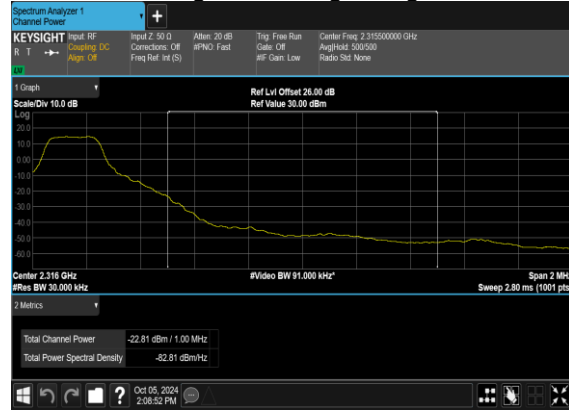




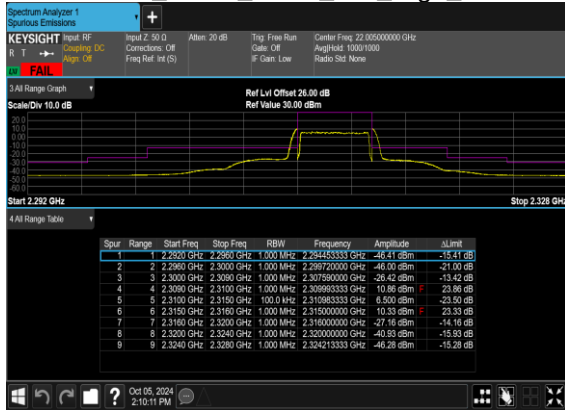
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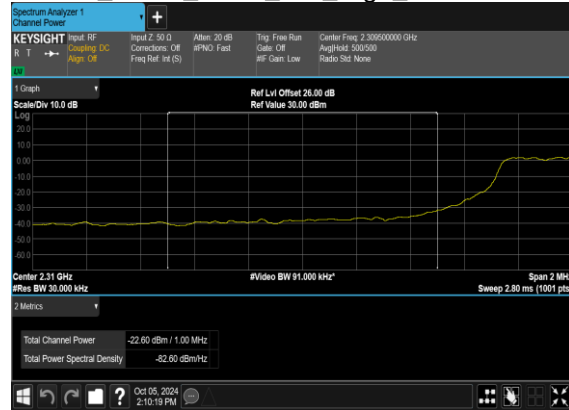
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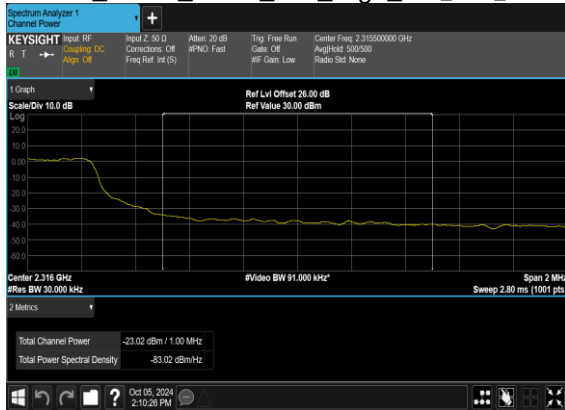
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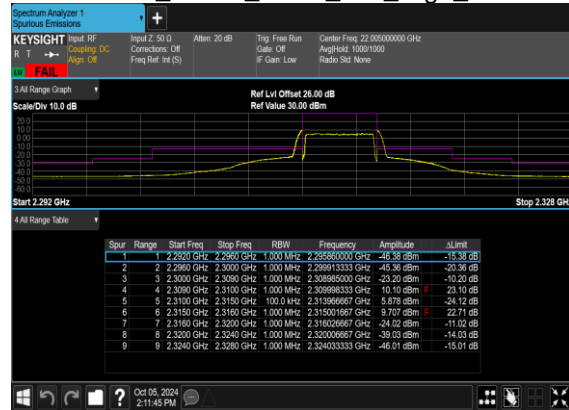
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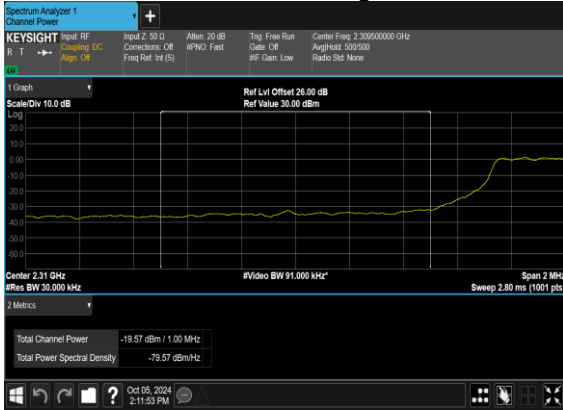


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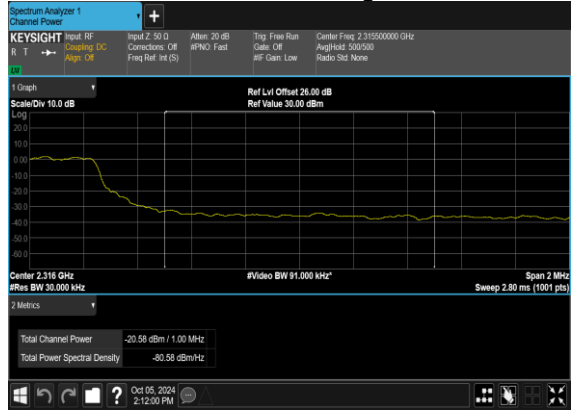




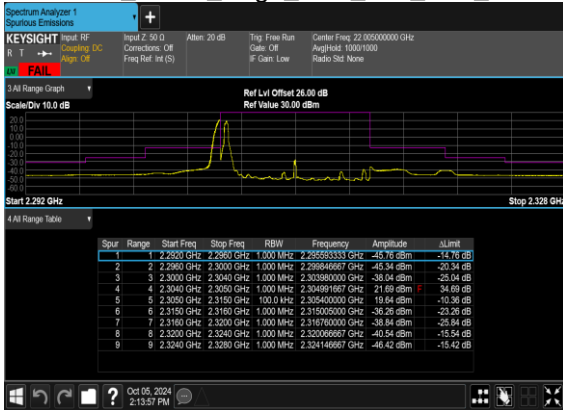
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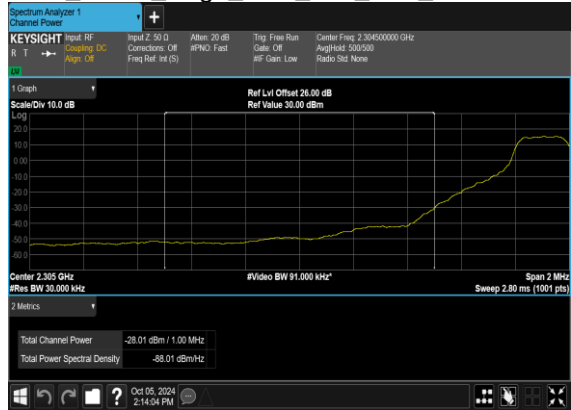
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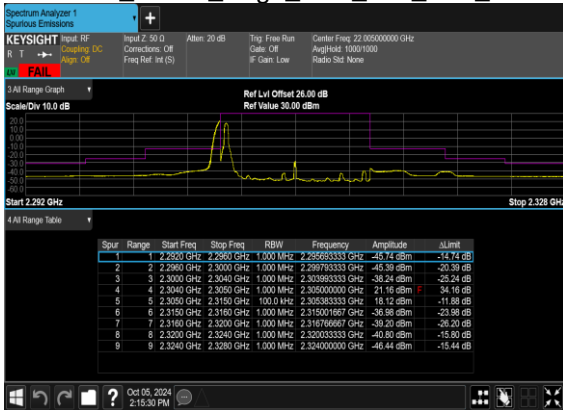
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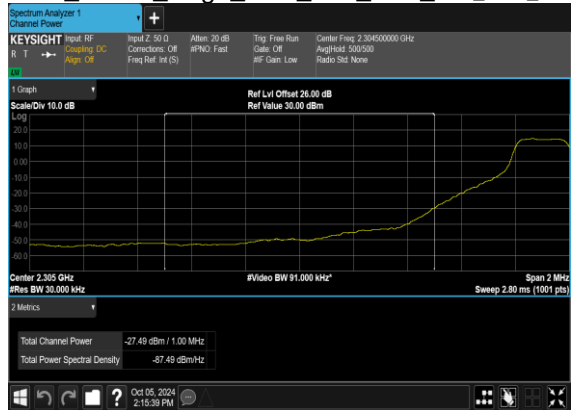
N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PASS



N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

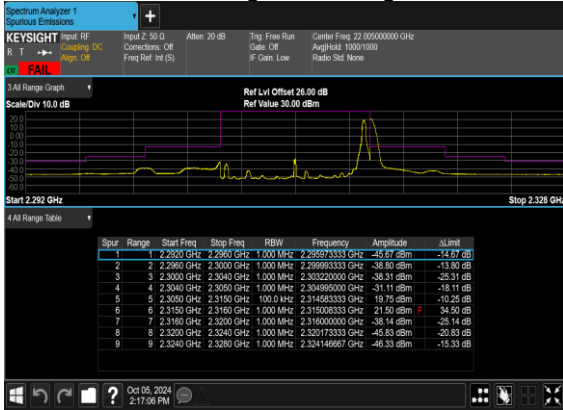


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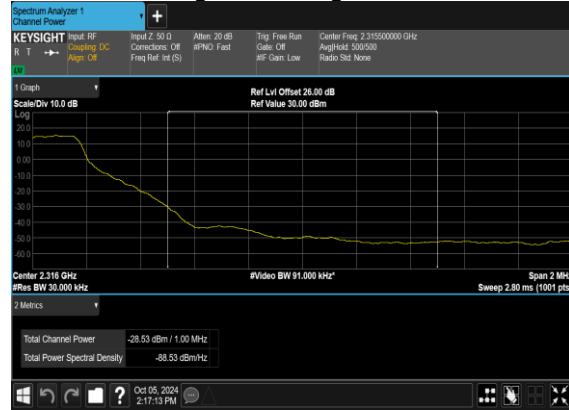




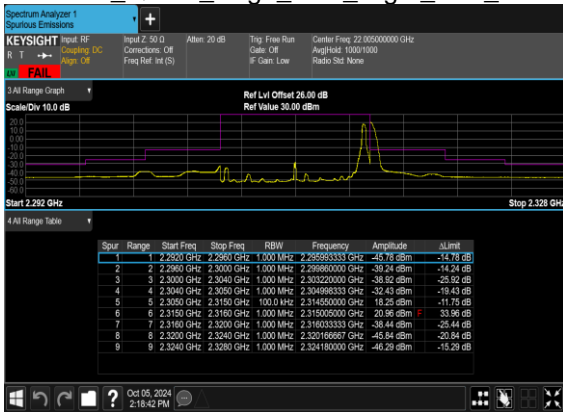
N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH_CHP_PASS



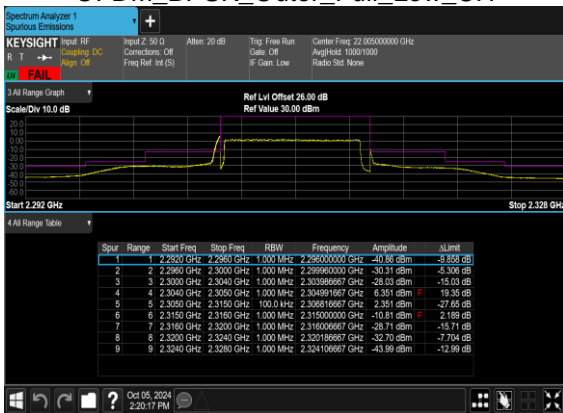
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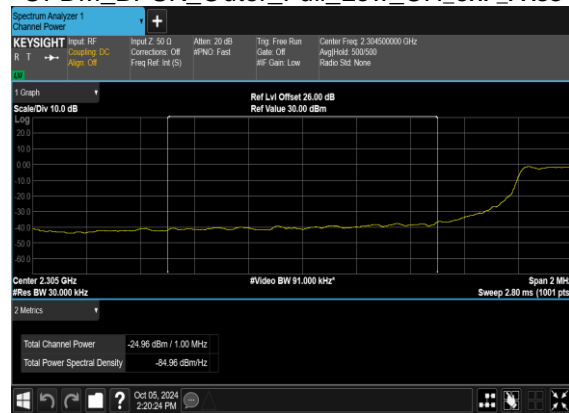
N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH_CHP_PASS



N30(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

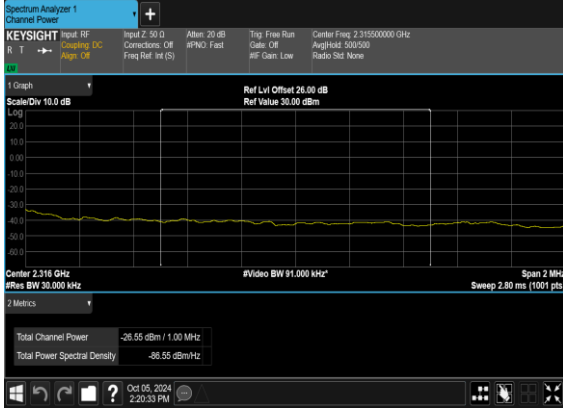


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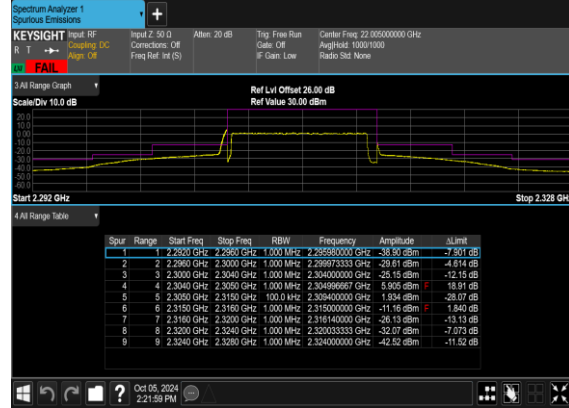




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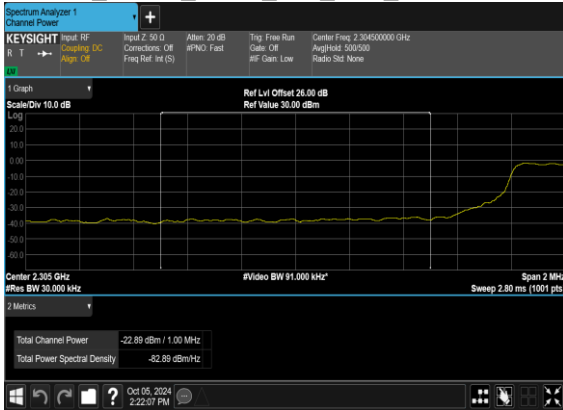


N30(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

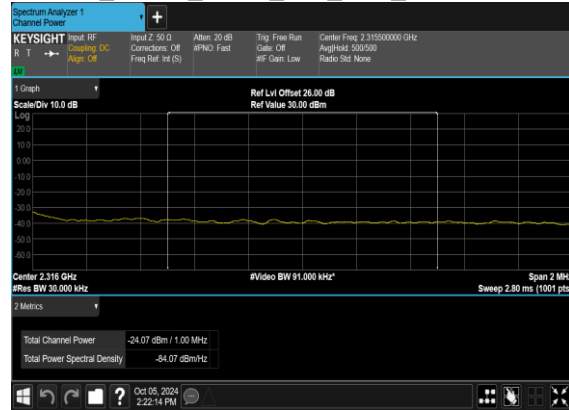


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.2900 GHz	2.2900 GHz	1000 MHz	2.295830000 GHz	-38.30 dBm	-7.201 dB
2	2	2.2960 GHz	2.3000 GHz	1000 MHz	2.299733333 GHz	-29.61 dBm	-4.614 dB
3	3	2.3000 GHz	2.3040 GHz	1000 MHz	2.304000000 GHz	-25.15 dBm	-12.15 dB
4	4	2.3040 GHz	2.3050 GHz	1000 MHz	2.304966667 GHz	5.805 dBm	-18.91 dB
5	5	2.3050 GHz	2.3150 GHz	100.0 MHz	2.309000000 GHz	1.934 dBm	-29.07 dB
6	6	2.3150 GHz	2.3160 GHz	1000 MHz	2.315000000 GHz	-11.16 dBm	-1.840 dB
7	7	2.3160 GHz	2.3200 GHz	1000 MHz	2.316140000 GHz	-26.13 dBm	-13.13 dB
8	8	2.3200 GHz	2.3240 GHz	1000 MHz	2.320033333 GHz	-32.07 dBm	-7.579 dB
9	9	2.3240 GHz	2.3280 GHz	1000 MHz	2.324000000 GHz	-42.52 dBm	-11.52 dB

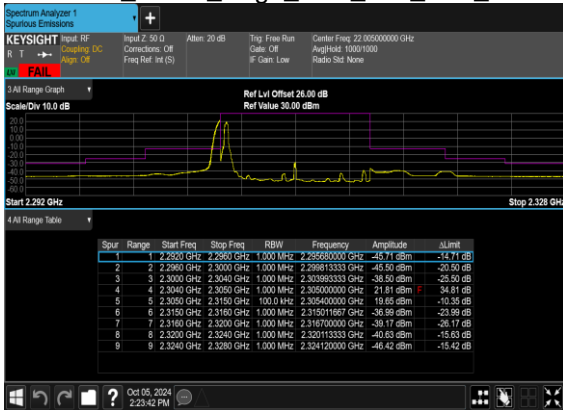
N30(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH_CHP_PASS



N30(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH_CHP_PASS



N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

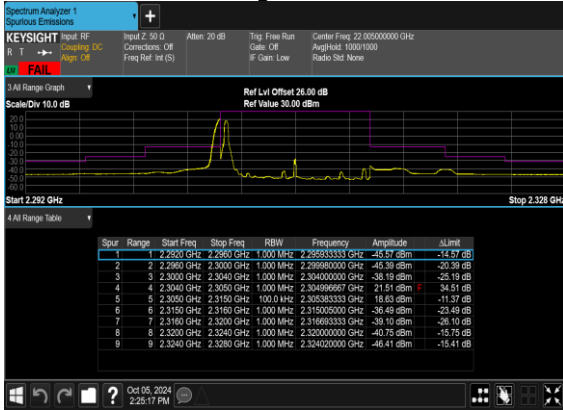


N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PASS





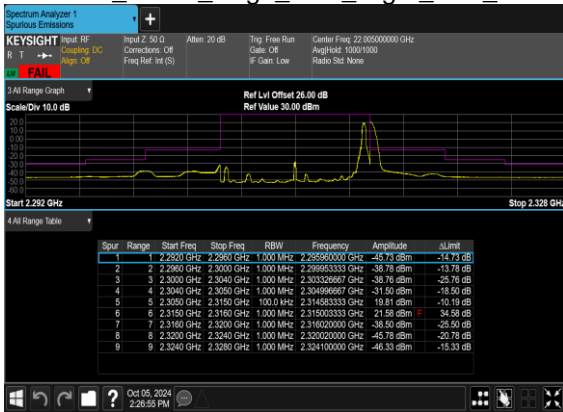
N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PASS



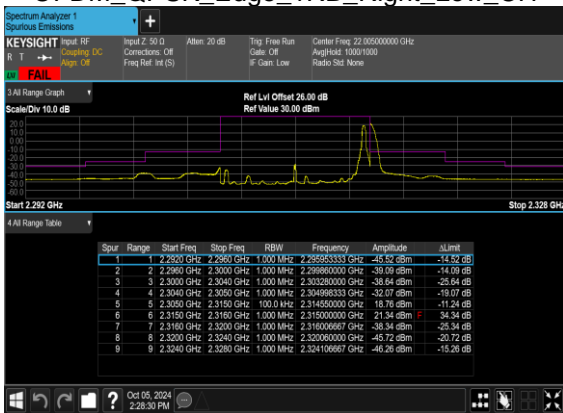
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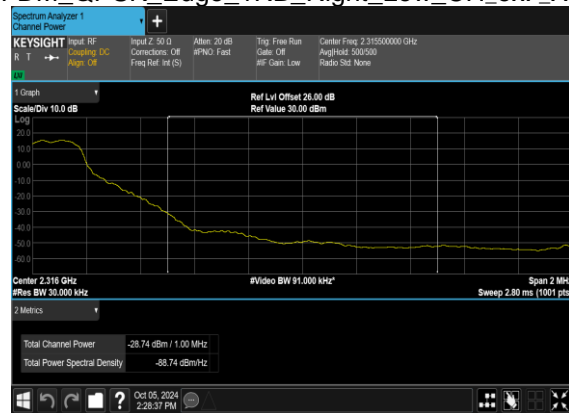
N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH_CHP_PASS



N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH

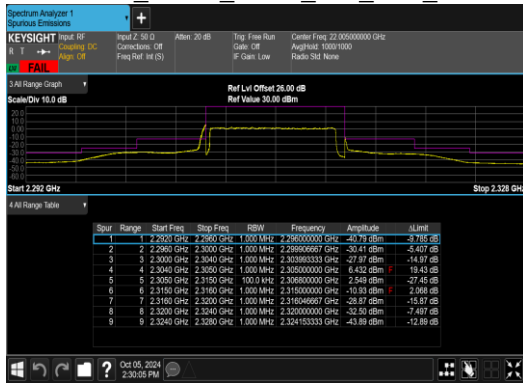


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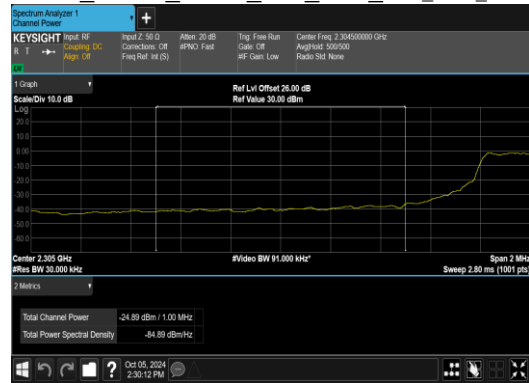




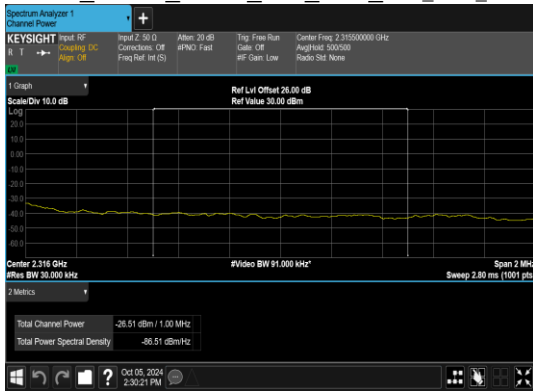
N30(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



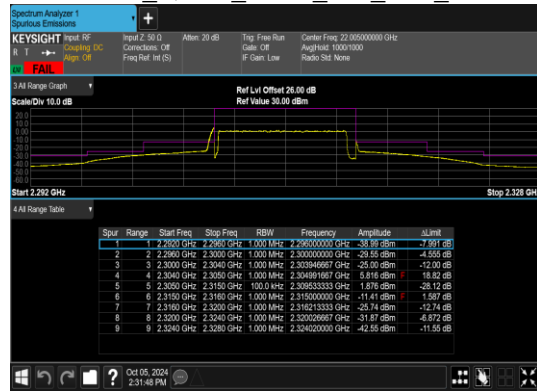
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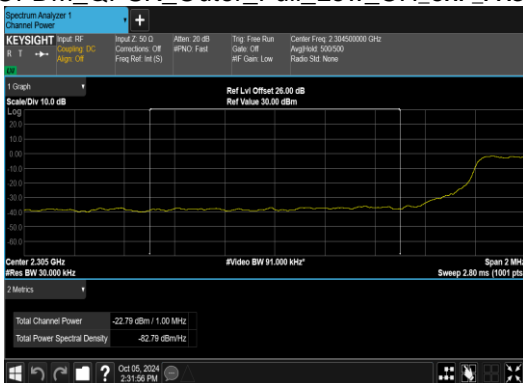
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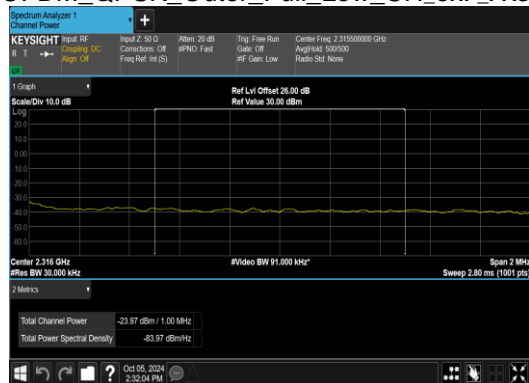
N30(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N30(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH_CHP_PASS



N30(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH_CHP_PASS



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Bruce	Temperature :	23~25°C
		Relative Humidity :	41~42%

5G NR n30 / 5MHz / QPSK / Ant. 1								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4611	-64.07	-40	-24.07	-75.53	2.84	14.30	H
	6916.02	-64.51	-40	-24.51	-74.45	3.49	13.43	H
	9222	-62.99	-40	-22.99	-73.23	3.85	14.09	H
	4611	-64.79	-40	-24.79	-76.25	2.84	14.30	V
	6916.02	-64.49	-40	-24.49	-74.43	3.49	13.43	V
	9221	-57.82	-40	-17.82	-68.06	3.85	14.09	V
Middle	4615	-64.04	-40	-24.04	-75.50	2.84	14.30	H
	6926	-64.06	-40	-24.06	-74.00	3.49	13.43	H
	9236	-58.44	-40	-18.44	-68.68	3.85	14.09	H
	4616	-64.21	-40	-24.21	-75.67	2.84	14.30	V
	6923	-64.08	-40	-24.08	-74.02	3.49	13.43	V
	9231	-62.75	-40	-22.75	-72.99	3.85	14.09	V
Highest	4616	-64.58	-40	-24.58	-76.04	2.84	14.30	H
	6931	-64.40	-40	-24.40	-74.34	3.49	13.43	H
	9241	-58.70	-40	-18.70	-68.94	3.85	14.09	H
	4620	-64.30	-40	-24.30	-75.76	2.84	14.30	V
	6931	-64.25	-40	-24.25	-74.19	3.49	13.43	V
	9241	-62.99	-40	-22.99	-73.23	3.85	14.09	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

5G NR n30 / 10MHz / QPSK / Ant. 1								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4616	-64.55	-40	-24.55	-76.01	2.84	14.30	H
	6916	-64.45	-40	-24.45	-74.39	3.49	13.43	H
	9222	-52.50	-40	-12.50	-62.74	3.85	14.09	H
	4611	-60.81	-40	-20.81	-72.27	2.84	14.30	V
	6916	-63.77	-40	-23.77	-73.71	3.49	13.43	V
	9222	-60.02	-40	-20.02	-70.26	3.85	14.09	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.