



Report No.: FG3N2326B

FCC RADIO TEST REPORT

FCC ID : A4RGGX8B

Equipment : Phone Model Name : GGX8B

Applicant : Google LLC

1600 Amphitheatre Parkway,

Mountain View, California, 94043 USA

Standard : FCC 47 CFR Part 2, 96

The product was received on Jan. 29, 2024 and testing was performed from Feb. 20, 2024 to Apr. 02, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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Report No.: FG3N2326B

Report Version : 01

History of this test report

Report No.: FG3N2326B

Report No.	Version	Description	Issue Date
FG3N2326B	01	Initial issue of report	Apr. 10, 2024

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
3.3	§96.41	Peak-to-Average Ratio	Pass	-
3.4	§96.41	Effective Isotropic Radiated Power	Pass	-
3.5	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	-
3.8	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	6.55 dB under limit at 7363.00 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.
- 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.

Reviewed by: William Chen Report Producer: Clio Lo

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1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature

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General Specs

GSM/WCDMA/LTE/5G NR, Bluetooth, BLE, BLE channel sounding, Thread, Wi-Fi 802.11be, UWB, NFC, WPT, NTN and GNSS

Antenna Type

WWAN:

<Ant. 1>: PIFA Antenna <Ant. 5>: PIFA Antenna <Ant. 6>: PIFA Antenna <Ant. 7>: PIFA Antenna

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

	Antenna information						
Band	Ant1	Ant5	Ant6	Ant7	Main Ant. #	Sub Ant. #	
n48			-0.1	-0.9	6	7	
MIMO Sub n48	-4.6	-4.3			1	5	

Remark:

- 1. For Test Items, Main Ant. means Tx0 and Sub Ant. means Tx1.
- 2. After preliminary scan, the main antenna Ant 6 for Low band and main antenna Ant 1 for Mid/high band are selected as the worst mode to be reported for conducted test.

EUT Information List				
S/N Performed Test Item				
41121FDAS000D8	Conducted Measurement			
41121FDAS000EC	EIRP			
41031FDAS000AV	Radiated Spurious Emission			

1.2 Modification of EUT

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

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1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory		
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sporton Site No.		
rest site No.	TH03-HY		
Test Engineer	Sherry Wu and Luffy Lin		
Temperature (°C)	20~24		
Relative Humidity (%)	43~58		

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Test Site Sporton International Inc. Wensan Laboratory		
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
rest site No.	03CH21-HY (TAF Code: 3786)	
Test Engineer	Jack Cheng, Ray Lung and Sky Chang	
Temperature (°C)	18~26	
Relative Humidity (%)	50~70	
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.	

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

1.4 Applied Standards

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

- + ANSI C63.26-2015
- ◆ ANSI / TIA-603-E
- FCC 47 CFR Part 2, 96
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.

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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.

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For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and accessory (Adapter or Earphone) and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find Z plane with Adapter as worst plane.

Modulation Type	Modulation	Modulation Type	Modulation
Α	DFT-s-OFDM pi/2 BPSK	N/A	N/A
В	DFT-s-OFDM QPSK	F	CP-OFDM QPSK
С	DFT-s-OFDM 16QAM	G	CP-OFDM 16QAM
D	DFT-s-OFDM 64QAM	Н	CP-OFDM 64QAM
E	DFT-s-OFDM 256QAM	I	CP-OFDM 256QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D, E	All	1, Half, Full	L, M, H
EIRP	A, B, C, D, E	All	1, Half, Full	L, M, H
PAR	A, B, C, D, E	20 MHz or less	Outer_Full	М
Bandwidth	A, F, G, H, I	All	Outer_Full	M
ACLR, Mask	A, B, C, D, E, F	10 / 40 MHz	Outer_1RB	L, M, H
(Part 96)	А, В, С, В, Е, Р	All	Outer_Full	∟, IVI, IT
CSE	В	Minimum	Inner_1RB	L, M, H
Frequency Stability	А	20 MHz or less	Outer_Full	М
RSE	A or B	20 MHz or less	Inner_1RB	L, M, H

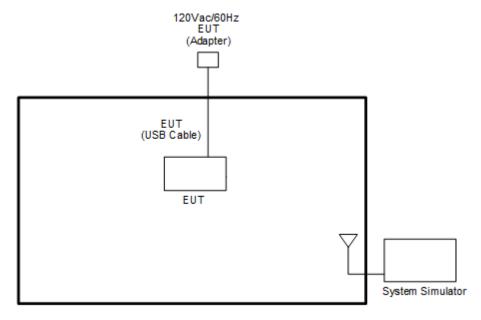
Remark:

- Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
- 2. 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.
- 3. During the RSE preliminary test, the standalone mode and charging modes (Adapter mode and WPT mode) were verified. It is determined that the adapter mode is the worst case for the official test.
- 4. All the radiated test cases were performed with AC Adapter 1 and USB Cable 2.

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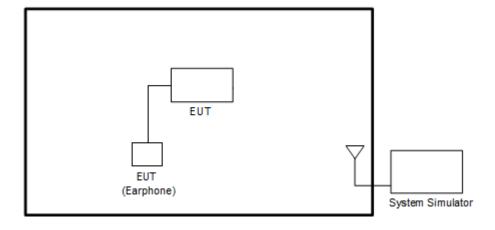
2.2 Connection Diagram of Test System

<EUT with Adapter>



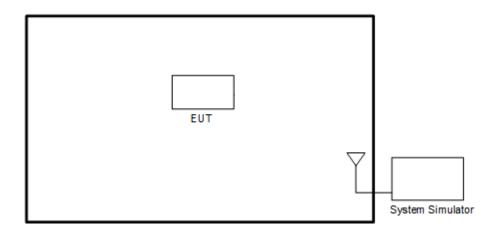
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<EUT with Earphone>



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<EUT without Accessory>



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2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	5G Wireless Test Platform	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

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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.

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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 4.2 dB and 10dB attenuator.

Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 4.2 + 10 = 14.2 (dB)

2.5 Frequency List of Low/Middle/High Channels

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

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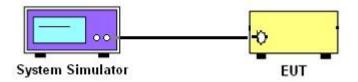
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

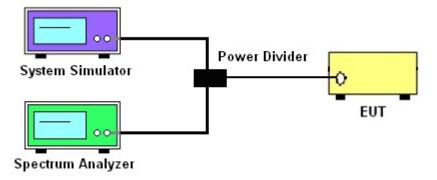
3.1.1 Test Setup

3.1.2 Conducted Output Power

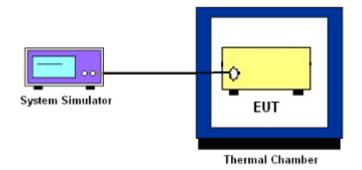


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3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band Edge and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

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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.

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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.

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3.3 Peak-to-Average Ratio

3.3.1 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.

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3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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

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3.4 EIRP

3.4.1 Description of the EIRP Measurement

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for 5G NR n48.

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The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

EIRP = PT + GT - LC, where

PT = transmitter output power in dBm

GT = gain of the transmitting antenna in dBi

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

Device	Maximum EIRP	Maximum PSD	
201100	(dBm/10 MHz)	(dBm/MHz)	
End User Device	23	n/a	

Remark:

- 1. Total channel power is complied with EIRP limit 23dBm/10MHz.
- For MIMO mode, the directional gain calculation is following F)2)d) of KDB 662911 D01 v02r01.
 - d) Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi
 - (ii) If all transmit signals are completely uncorrelated, then $\text{Directional gain} = 10 \ \log[(10^{G_I/10} + 10^{G_2/10} + \ldots + 10^{G_N/10})/N_{ANT}] \ dBi$

					MIMO Mode
					Uncorrelated
5G NR	Ant 6	Ant 1	Ant 7	Ant 5	NSS = 2
n48	(dBi)	(dBi)	(dBi)	(dBi)	(dBi)
Ant. 6 + 1	-0.10	-4.60	-0.90	-4.30	-1.79
Ant. 7 + 5	-0.10	-4.60	-0.90	-4.30	-2.27

Directional gain for Ant. 6+1 uncorrelated of MIMO mode derived from formula which is

 $10 \times \log \{ [10^{\circ} (0.6 \text{ dBi} / 10) + 10^{\circ} (-3.8 \text{ dBi} / 10)] / 2 \}$

= -1.06 dBi

3.4.2 Test Procedures

- 1. The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS Eqpt v03 Section 3.2(b)(2) and 3.2(b)(3)
- Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

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3.5 Occupied Bandwidth

3.5.1 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

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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.

3.5.2 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.

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3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

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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 band edges of low and high channels for the highest RF powers were measured.
- 3. Set RBW >= 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. Set spectrum analyzer with RMS detector.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

For Adjacent Channel Leakage Ratio (ACLR) measurement,

- 7. The Adjacent Channel Leakage Ratio (ACLR) is the ratio of the average power in the assigned aggregated channel bandwidth to the average power over the equivalent adjacent channel bandwidth.
- 8. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
- 9. The measured ACLR ratio shall be at least 30 dB.

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3.7 Conducted Spurious Emission

3.7.1 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.

3.7.2 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.
- 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.

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- 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.

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3.8 Frequency Stability

3.8.1 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.

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3.8.2 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.
- 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.

3.8.3 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±5° 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.

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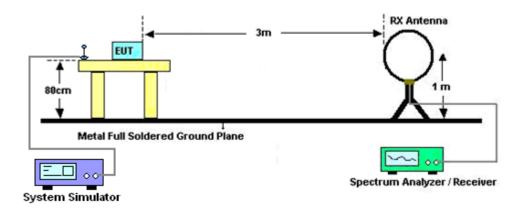
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

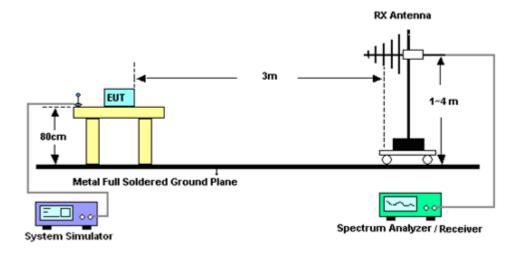
4.2 Test Setup

For radiated emissions below 30MHz



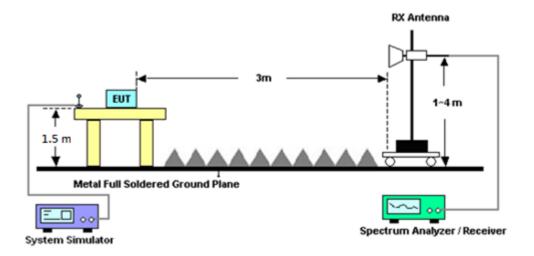
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For radiated emissions from 30MHz to 1GHz



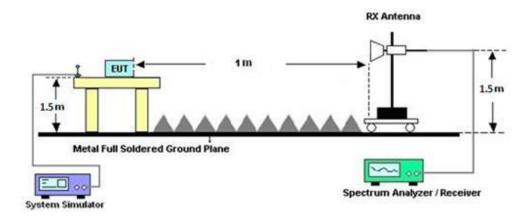
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For radiated emissions from 1GHz to 18GHz



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For radiated emissions above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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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 / TIA-603-E.

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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

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

- 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. To convert spectrum reading E(dBuV/m) to EIRP(dBm) EIRP(dBm) = Level (dBuV/m) + 20log(d) -104.77, where d is the distance at which filed strength limit is specified in the rules
- 8. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level Preamp Factor.
- ERP (dBm) = EIRP 2.15
 The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Mar. 07, 2024~ Mar. 16, 2024	Sep. 11, 2024	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Oct. 15, 2023	Mar. 07, 2024~ Mar. 16, 2024	Oct. 14, 2024	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18 EN	1GHz~18GHz	Jul. 12, 2023	Mar. 07, 2024~ Mar. 16, 2024	Jul. 11, 2024	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1223	18GHz~40GHz	Jul. 10, 2023	Mar. 07, 2024~ Mar. 16, 2024	Jul. 09, 2024	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 15, 2023	Mar. 07, 2024~ Mar. 16, 2024	Jul. 14, 2024	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 28, 2023	Mar. 07, 2024~ Mar. 16, 2024	Sep. 27, 2024	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060871	18GHz~40GHz	Aug. 30, 2023	Mar. 07, 2024~ Mar. 16, 2024	Aug. 29, 2024	Radiation (03CH21-HY)
Spectrum Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Aug. 28, 2023	Mar. 07, 2024~ Mar. 16, 2024	Aug. 27, 2024	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Mar. 07, 2024~ Mar. 16, 2024	Mar. 05, 2025	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,80 4612/2,8046 14/2	30MHz~40GHz	Oct. 24, 2023	Mar. 07, 2024~ Mar. 16, 2024	Oct. 23, 2024	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 30, 2023	Mar. 07, 2024~ Mar. 16, 2024	Oct. 29, 2024	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 07, 2024~ Mar. 16, 2024	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Mar. 07, 2024~ Mar. 16, 2024	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 07, 2024~ Mar. 16, 2024	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Mar. 07, 2024~ Mar. 16, 2024	N/A	Radiation (03CH21-HY)
DC Power Supply	GW Instek	GPE2323	GET910884	0V~64V ;0A~6A	Nov. 16, 2023	Feb. 20, 2024~ Apr. 02, 2024	Nov. 15, 2024	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	May 03, 2023	Feb. 20, 2024~ Apr. 02, 2024	May 02, 2024	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SH-241	92003713	-30℃ ~90℃	May 17, 2023	Feb. 20, 2024~ Apr. 02, 2024	May 16, 2024	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262116730	LTE	Jul. 10, 2023	Feb. 20, 2024~ Apr. 02, 2024	Jul. 09, 2024	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262134933	FR1	Jul. 10, 2023	Feb. 20, 2024~ Apr. 02, 2024	Jul. 09, 2024	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSW43	101456	RBW 50MHz	Feb. 19, 2024	Feb. 20, 2024~ Apr. 02, 2024	Feb. 18, 2025	Conducted (TH03-HY)

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6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of	3.04 dB
Confidence of 95% (U = 2Uc(y))	0.0 1 4.2

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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

	4
Measuring Uncertainty for a Level of	3.33 dB
Confidence of 95% (U = 2Uc(y))	3.33 UB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	3.68 dB
Confidence of 95% (U = 2Uc(y))	3.00 dB

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and EIRP

<MIMO Mode>

			Par	t96 NR r	148 Maxi	imum A	verage P	ower [d	Bm], DG	i = -1.79	dBi			
BW	RB	RB	Mod	A	ntenna	6	A	ntenna	1	Combine			EIRP	EIRP
(MHz)	Size	Offset	IVIOU	Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1		19.74	19.93	19.65	19.02	19.67	19.42	22.41	22.81	22.55		
10	1	22		19.87	19.89	19.58	18.87	19.63	19.52	22.41	22.77	22.56		
10	12	6	QPSK	19.74	19.95	19.57	19.01	19.54	19.50	22.40	22.76	22.55	21.02	0.1265
10	1	0	QPSK	18.28	18.46	18.02	17.44	18.11	17.86	20.89	21.30	20.95	21.02	0.1203
10	1	23		18.22	18.38	18.03	17.44	18.11	17.96	20.86	21.26	21.01		
10	24	0		18.27	18.42	18.09	17.52	18.14	17.97	20.92	21.29	21.04		
10	1	1	16-QAM	19.20	19.37	19.02	18.75	19.06	18.73	21.99	22.23	21.89		
10	1	1	64-QAM	18.47	17.79	17.62	17.36	17.76	17.57	20.96	20.79	20.61	20.44	0.1107
10	1	1	256-QAM	14.68	14.80	14.30	14.14	14.38	14.41	17.43	17.61	17.37		
Limit	EIRP <	23dBm	10MHz	Iz Result								Pa	ass	

			Par	t96 NR r	148 Max	imum A	verage P	ower [d	Bm], DG	= -1.79	dBi			
BW	RB	RB	Mod	Mod Ar		6	A	ntenna	1	Combine			EIRP	EIRP
(MHz)	Size	Offset	IVIOU	Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1		15.30	19.86	19.60	14.56	19.58	19.44	17.96	22.73	22.53		
15	1	36		19.77	19.75	15.03	19.13	19.49	14.92	22.47	22.63	17.99		
15	19	9	QPSK	19.77	19.90	19.59	19.03	19.58	19.38	22.43	22.75	22.50	20.96	0.1247
15	1	0	QPSK	15.28	18.43	18.14	14.57	18.06	18.01	17.95	21.26	21.09	20.90	0.1247
15	1	37		18.33	18.19	15.02	17.66	17.99	14.92	21.02	21.10	17.98		
15	38	0		15.33	18.35	15.02	14.54	18.08	14.89	17.96	21.23	17.97		
15	1	1	16-QAM	15.08	19.47	19.13	14.47	19.10	18.95	17.80	22.30	22.05		
15	1	1	64-QAM	15.51	18.03	17.31	14.64	17.47	17.48	18.11	20.77	20.41	20.51	0.1125
15	1	1	256-QAM	14.84	14.95	14.96	14.09	14.69	14.41	17.49	17.83	17.70		
Limit	EIRP <	23dBm	10MHz		Result							Pa	ass	

			Par	t96 NR r	148 Max	imum A	erage P	ower [d	Bm], DG	s = -1.79	dBi			
BW	RB	RB	Mod	Mod		6	A	ntenna	1	Combine			EIRP	EIRP
(MHz)	Size	Offset	IVIOU	Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1		15.25	19.80	19.68	14.55	19.50	19.45	17.92	22.66	22.58		
20	1	49		19.86	19.93	15.00	19.16	19.54	14.78	22.53	22.75	17.90		
20	25	12	QPSK	19.85	19.94	19.49	19.06	19.48	19.37	22.48	22.73	22.44	20.96	0.1247
20	1	0	QFSK	15.33	18.37	18.07	14.54	18.04	17.79	17.96	21.22	20.94	20.90	0.1247
20	1	50		18.33	18.39	15.03	17.61	17.95	14.78	21.00	21.19	17.92		
20	51	0		15.33	18.37	14.99	14.57	18.07	14.85	17.98	21.23	17.93		
20	1	1	16-QAM	15.72	19.32	19.22	14.63	19.14	18.96	18.22	22.24	22.10		
20	1	1	64-QAM	15.61	18.19	17.96	14.56	17.62	17.56	18.13	20.92	20.77	20.45	0.1109
20	1	1	256-QAM	14.78	14.98	14.58	14.21	14.31	14.57	17.51	17.67	17.59		
Limit	Limit EIRP < 23dBm/10MHz Result						Pa	ass						

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			Par	t96 NR r	148 Max	imum A	verage F	ower [d	Bm], DG	i = -1.79	dBi			
BW	RB	RB	Mod	A	Antenna 6		A	ntenna	1	Combine			EIRP	EIRP
(MHz)	Size	Offset	WIOG	Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1		8.70	17.39	8.65	7.88	16.93	8.37	11.32	20.18	11.52		
30	1	76		8.78	17.34	8.45	8.09	17.01	8.33	11.46	20.19	11.40		
30	39	19	QPSK	8.75	19.91	8.55	8.00	19.55	8.46	11.40	22.74	11.52	20.95	0.1245
30	1	0	QFSK	8.70	17.47	8.65	7.97	16.98	8.34	11.36	20.24	11.51	20.93	0.1243
30	1	77		8.80	17.24	8.50	7.99	17.02	8.37	11.42	20.14	11.45		
30	78	0		8.86	17.39	8.56	8.07	17.09	8.44	11.49	20.25	11.51		
30	1	1	16-QAM	8.82	17.67	8.80	8.42	16.95	8.59	11.63	20.34	11.71		
30	1	1	64-QAM	8.93	17.55	8.79	8.05	17.00	8.70	11.52	20.29	11.76	18.55	0.0716
30	1	1	256-QAM	9.00	15.06	8.64	7.48	14.58	8.42	11.32	17.84	11.54		
Limit	EIRP <	: 23dBm	/10MHz		Result						Pa	ass		

			Par	t96 NR r	148 Max	imum A	erage P	ower [d	Bm], DG	s = -1.79	dBi			
BW	RB	RB	Mod	A	ntenna	6	A	ntenna	1	Combine			EIRP	EIRP
(MHz)	Size	Offset	IVIOU	Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1		8.90	17.60	8.79	8.10	16.76	8.40	11.53	20.21	11.61		
40	1	104		8.74	17.28	8.42	8.15	16.96	8.42	11.47	20.13	11.43		
40	53	26	QPSK	8.83	19.99	8.60	8.05	19.50	8.41	11.47	22.76	11.52	20.97	0.125
40	1	0	QPSK	8.83	17.49	8.62	7.98	16.68	8.41	11.44	20.11	11.53	20.97	0.123
40	1	105		8.67	17.21	8.63	8.14	17.09	8.31	11.42	20.16	11.48		
40	106	0		8.87	16.88	8.55	8.17	16.59	8.43	11.54	19.75	11.50		
40	1	1	16-QAM	8.75	17.55	8.55	7.86	16.96	8.29	11.34	20.28	11.43		
40	1	1	64-QAM	8.77	17.33	8.72	8.19	17.26	8.59	11.50	20.31	11.67	18.52	0.0711
40	1	1	256-QAM	8.43	14.55	8.85	8.59	14.30	8.39	11.52	17.44	11.64		
Limit	Limit EIRP < 23dBm/10MHz Result						Pa	ass						

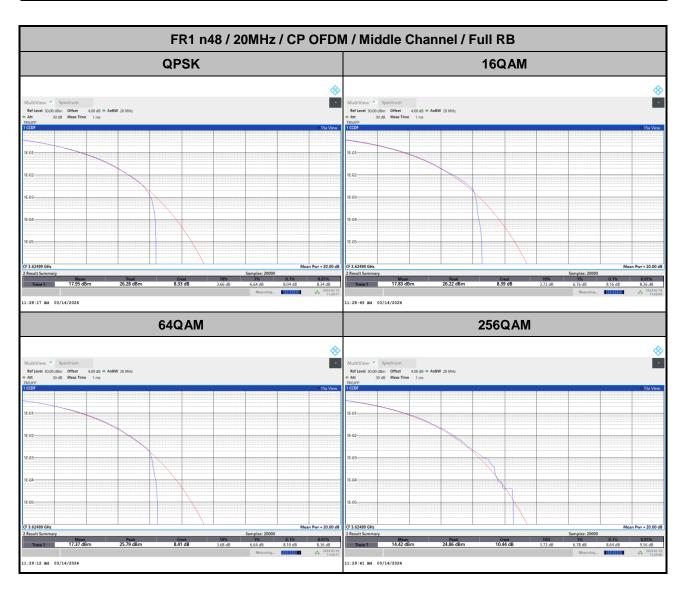
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<MIMO Mode>

Peak-to-Average Ratio

Mode									
Mod.	QPSK	QPSK 16QAM 64QAM 256QAM							
RB Size	Full RB	Full RB	Full RB	Full RB	Result				
Middle CH	8.04	8.16	8.10	8.64	PASS				

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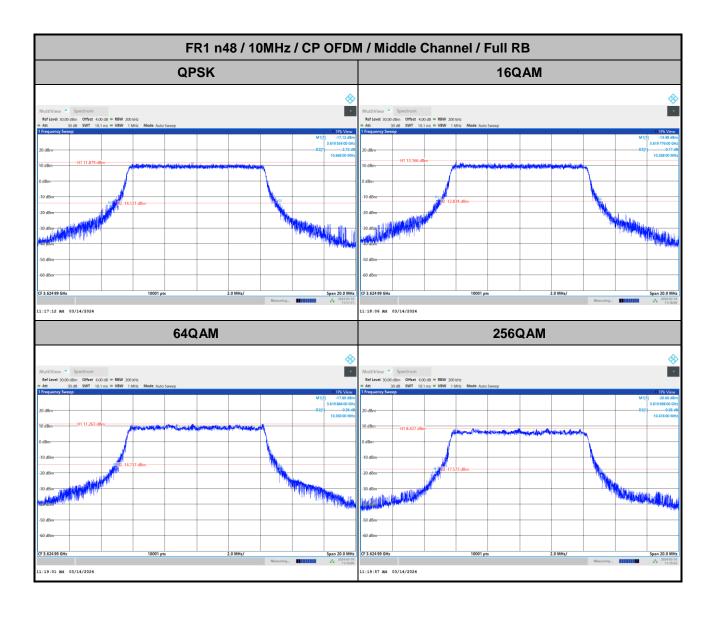
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26dB Bandwidth

Mode			FR1 n	48 : 26dB BV	V(MHz) / CP	OFDM		
BW	101	ИHz	15N	ЛHz	201	ИHz	251	ИHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.67	10.27	15.65	15.61	20.57	20.57	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10.33	10.42	15.67	15.66	21.44	20.84	-	-
BW	301	ИНz	401	ЛНz	50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	31.31	31.11	42.60	42.86	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	30.96	31.12	42.55	42.83	-	-	-	-
BW	701	ИНz	801	ЛНz	901	ИНz	100	MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	-	-	-	-

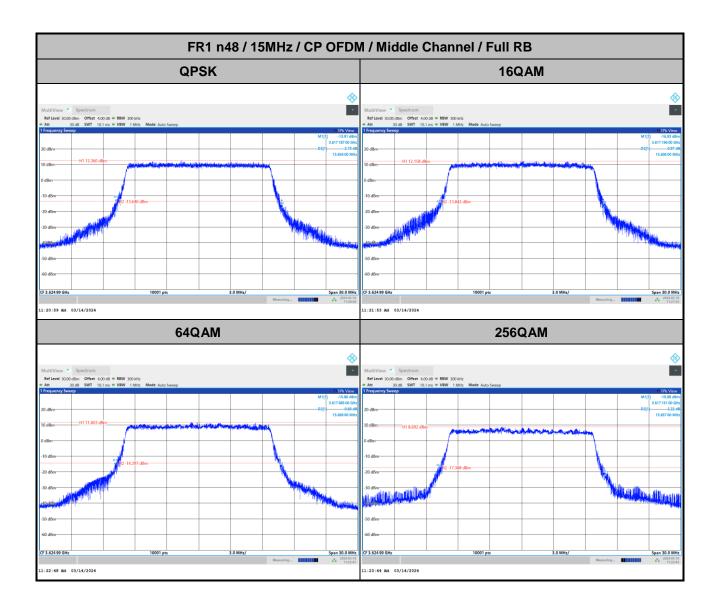
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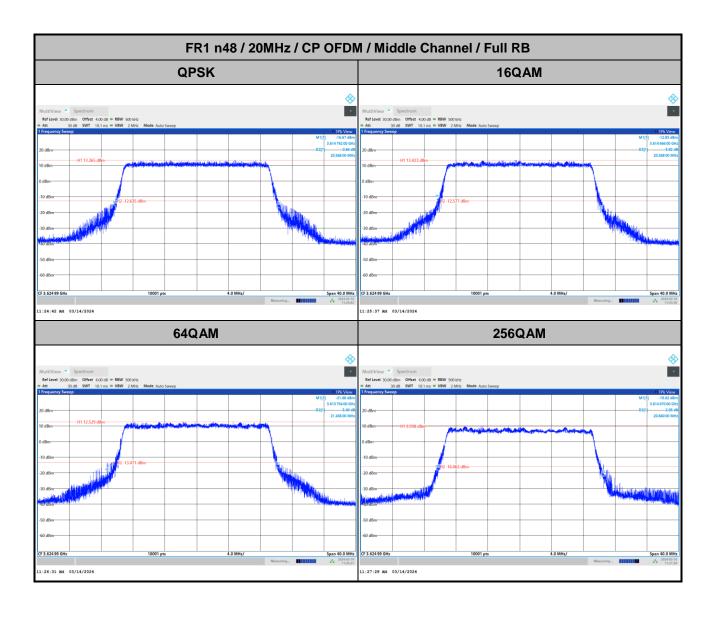


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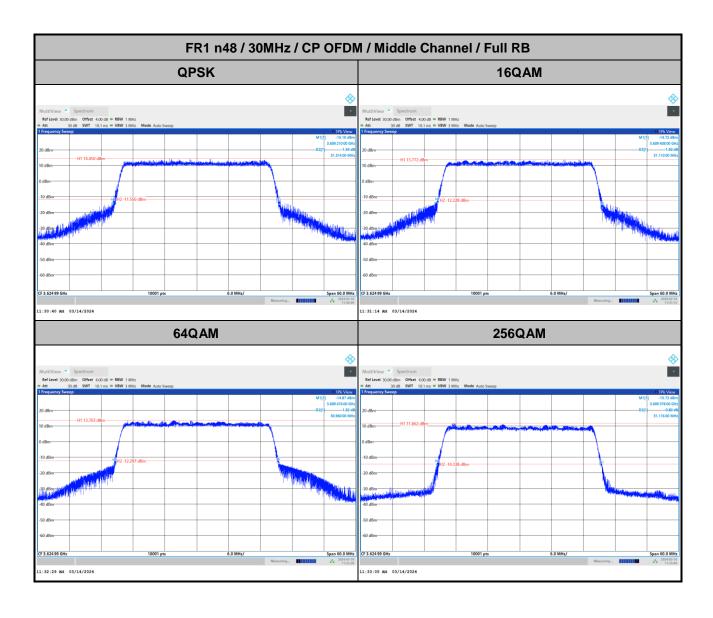


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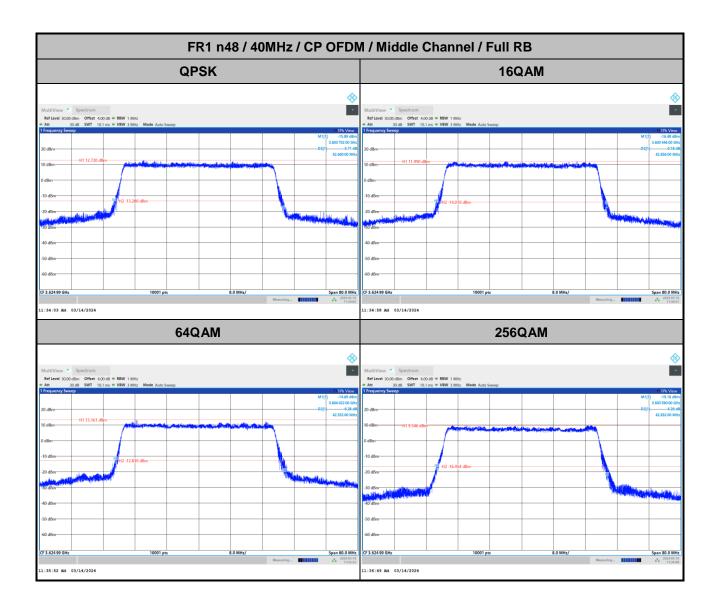
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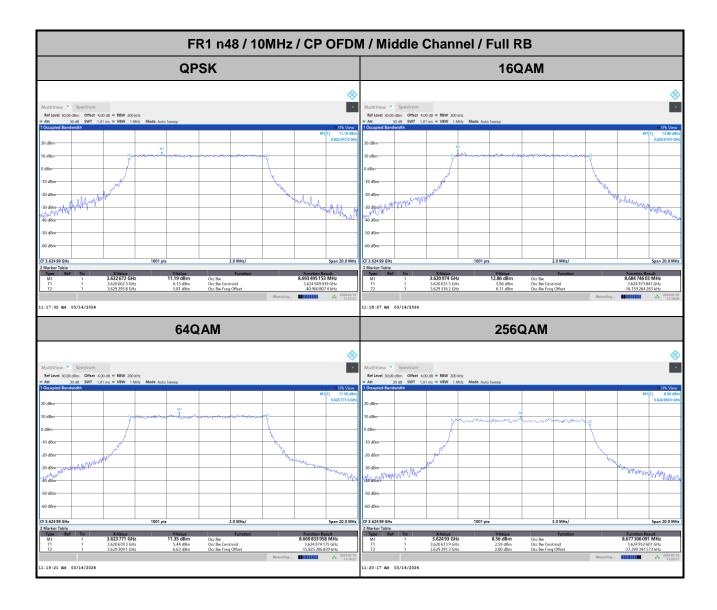
Occupied Bandwidth

Mode	FR1 n48 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.69	8.68	13.66	13.70	18.32	18.40	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.66	8.67	13.66	13.63	18.39	18.43	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	28.22	28.19	38.14	38.21	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	28.17	28.20	38.25	38.22	-	-	-	-
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	-	-	-	-

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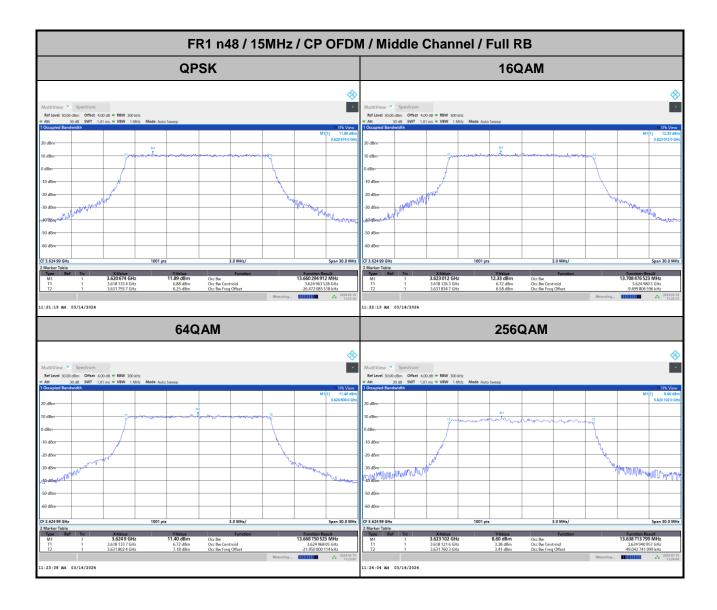
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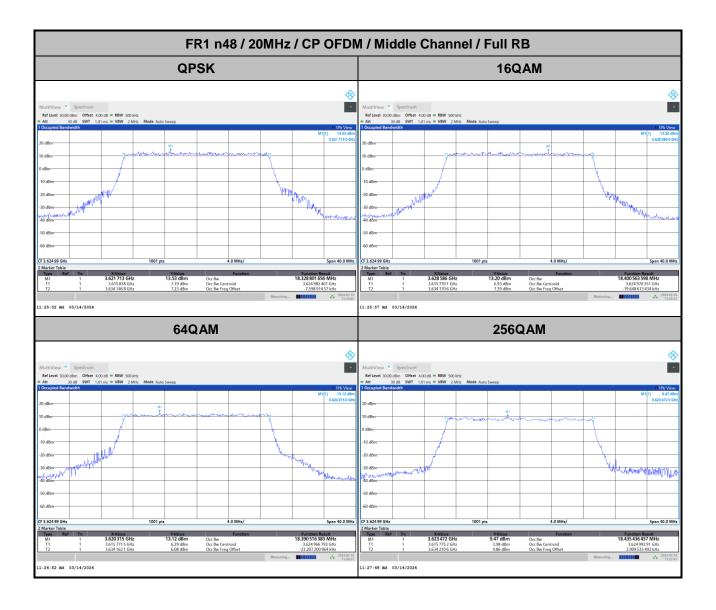
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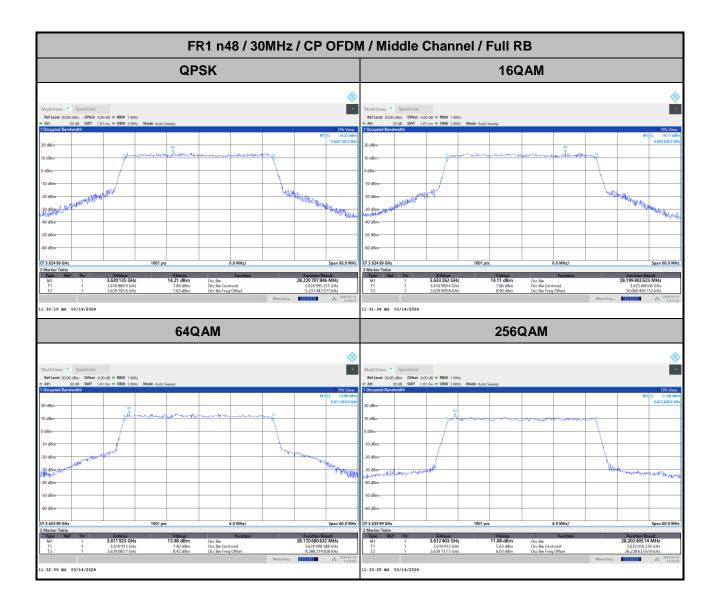
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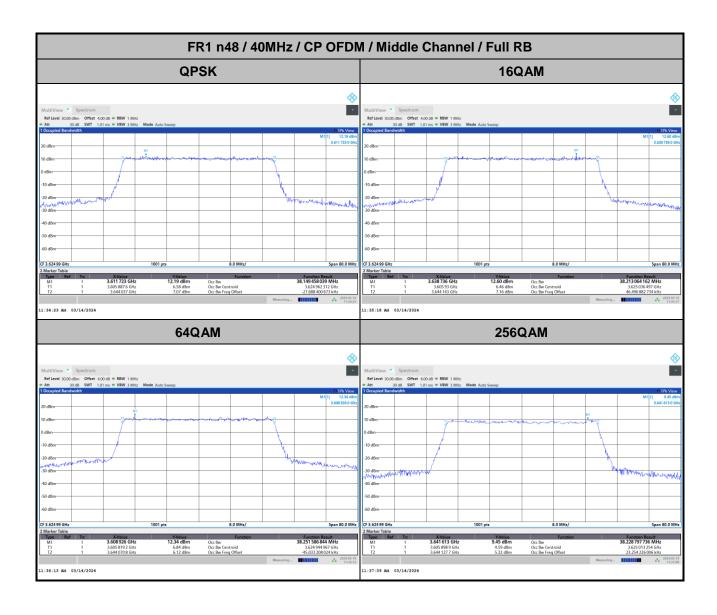
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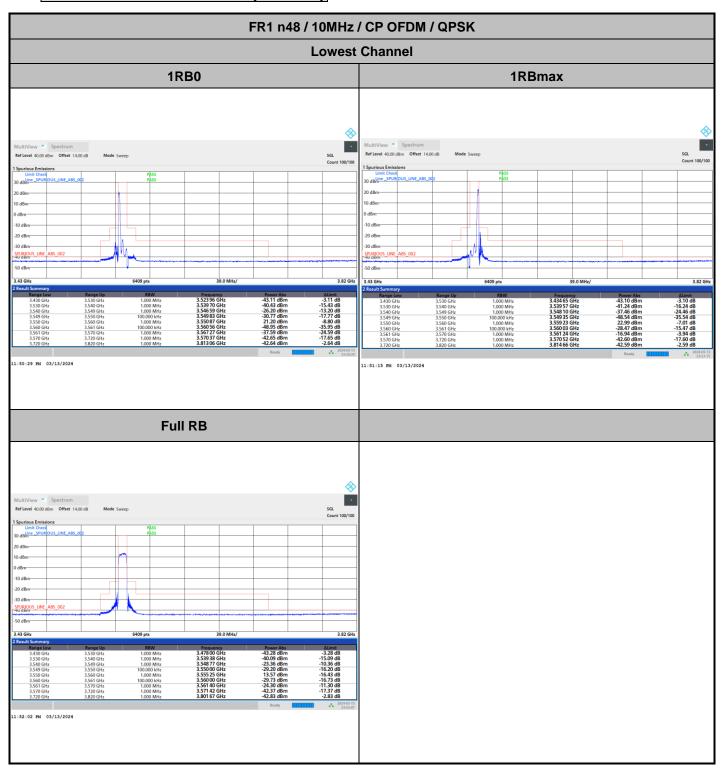
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Unwanted Emission (MASK)



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FR1 n48 / 10MHz / CP OFDM / QPSK **Middle Channel 1RB0** 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 14.00 dB 10 dBm -10 dBm -10 dBm 20 dBm -20 dBn 6409 pt 3.82 GHz 3.43 GHz 3.43 GHz 3.82 GH Power Abs -43.14 dBm -42.30 dBm -37.89 dBm -47.50 dBm 22.92 dBm -29.62 dBm -23.50 dBm -42.39 dBm -42.83 dBm 1:59:56 PM 03/13/2024 Full RB SPURIOUS LINE ABS 002 3.82 GH

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2:01:29 AM 03/14/2024

FR1 n48 / 10MHz / CP OFDM / QPSK **Highest Channel 1RB0** 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 14.00 dB 10 dBm -10 dBm -10 dBm 20 dBm 3.82 GHz 3.43 GHz 3.43 GHz 3.82 GH L2:09:25 AM 03/14/2024 Full RB SPURIOUS LINE ABS 002

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2:10:58 AM 03/14/2024

1:54:22 PM 03/13/2024

FAX: 886-3-328-4978

FR1 n48 / 10MHz / CP OFDM / 16QAM **Lowest Channel 1RB0** 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 14.00 dB 10 dBm -10 dBm -10 dBm 20 dBm -20 dBn 39.0 MHz/ 3.82 GHz 3.43 GHz 3.43 GHz 3.82 GH 1:52:49 PM 03/13/2024 Full RB SPURIOUS LINE ABS 002 3.82 GH Power Abs -43.13 dBm -40.32 dBm -24.55 dBm -28.21 dBm 13.27 dBm -28.99 dBm -23.47 dBm -41.62 dBm -42.66 dBm

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FR1 n48 / 10MHz / CP OFDM / 16QAM **Middle Channel 1RB0** 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 14.00 dB 10 dBm -10 dBm -10 dBm 20 dBm -20 dBn 39.0 MHz/ 3.82 GHz 3.43 GHz 3.43 GHz 3.82 GH L2:02:16 AM 03/14/2024 Full RB SPURIOUS LINE ABS 002 3.82 GH 2:03:49 AM 03/14/2024

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FR1 n48 / 10MHz / CP OFDM / 16QAM **Highest Channel 1RB0** 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 14.00 dB -10 dBm -10 dBm 20 dBm 3.82 GH: 3.43 GHz 3.43 GHz 3.82 GH L2:11:45 AM 03/14/2024 Full RB SPURIOUS LINE ABS 002 3.82 GH

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2:13:19 AM 03/14/2024

FR1 n48 / 10MHz / CP OFDM / 64QAM **Lowest Channel 1RB0** 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 14.00 dB 10 dBm -10 dBm -10 dBm 20 dBm -20 dBn 39.0 MHz/ 3.82 GHz 3.43 GHz 3.43 GHz 3.82 GH 1:55:09 PM 03/13/2024 Full RB 3.82 GH

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L:56:43 PM 03/13/2024

FR1 n48 / 10MHz / CP OFDM / 64QAM **Middle Channel 1RB0** 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 14.00 dB 10 dBm -10 dBm -10 dBm 20 dBm -20 dBn 39.0 MHz/ 3.82 GHz 3.43 GHz 3.43 GHz 3.82 GH L2:04:38 AM 03/14/2024 Full RB SPURIOUS LINE ABS 002 3.82 GH

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2:06:11 AM 03/14/2024

FR1 n48 / 10MHz / CP OFDM / 64QAM **Highest Channel 1RB0** 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 14.00 dB 10 dBm -10 dBm -10 dBm 20 dBm 3.82 GH: 3.43 GHz 3.43 GHz 3.82 GH L2:14:06 AM 03/14/2024 Full RB SPURIOUS LINE ABS 002

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2:15:40 AM 03/14/2024

FR1 n48 / 10MHz / CP OFDM / 256QAM **Lowest Channel 1RB0** 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 14.00 dB 10 dBm -10 dBm -10 dBm 20 dBm -20 dBn 39.0 MHz/ 3.82 GHz 3.43 GHz 3.43 GHz 3.82 GH 1:57:32 PM 03/13/2024 Full RB SPURIOUS LINE ABS 002 3.82 GH Frequency 3.441 84 GHz 3.539 60 GHz 3.548 91 GHz 3.549 93 GHz 3.555 20 GHz 3.560 02 GHz 3.561 04 GHz 3.588 66 GHz 3.816 65 GHz Power Abs -42.74 dBm -41.40 dBm -28.31 dBm -32.44 dBm 10.32 dBm -32.58 dBm -31.05 dBm -43.29 dBm -42.78 dBm L:59:06 PM 03/13/2024

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FR1 n48 / 10MHz / CP OFDM / 256QAM **Middle Channel 1RB0** 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 14.00 dB 10 dBm -10 dBm -10 dBm 20 dBm -20 dBn 39.0 MHz/ 3.82 GHz 3.43 GHz 3.43 GHz 3.82 GH L2:07:00 AM 03/14/2024 Full RB SPURIOUS LINE ABS 002 3.82 GH 744 94 GHz 3.609 80 GHz 3.618 92 GHz 3.618 92 GHz 3.619 90 GHz 3.625 55 GHz 3.630 11 GHz 3.631 07 GHz 3.641 08 GHz 3.749 12 GHz Power Abs -43.04 dBm -42.32 dBm -29.19 dBm -32.42 dBm 10.26 dBm -32.45 dBm -28.48 dBm -42.24 dBm -42.75 dBm 2:08:34 AM 03/14/2024

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