



Report No.: FG380306G

FCC RADIO TEST REPORT

FCC ID : A4RG8HHN

Equipment : Phone **Model Name** : G8HHN

Applicant : Google LLC

1600 Amphitheatre Parkway,

Mountain View, California, 94043 USA

Standard : FCC 47 CFR Part 2, 96

The product was received on Aug. 25, 2023 and testing was performed from Aug. 25, 2023 to Dec. 09, 2023. 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.)

TEL: 886-3-327-3456 : 1 of 24 Page Number FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023 : 03

Table of Contents

His	story o	of this test report	3
Su	mmary	y of Test Result	4
1	Gene	eral Description	5
	1.1 1.2 1.3 1.4	Product Feature of Equipment Under Test	5 5
2	Test	Configuration of Equipment Under Test	7
	2.1 2.2 2.3 2.4 2.5	Test Mode Connection Diagram of Test System Support Unit used in test configuration Measurement Results Explanation Example Frequency List of Low/Middle/High Channels	9 10
3	Cond	lucted Test Items	11
	3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8	Measuring Instruments Conducted Output Power Peak-to-Average Ratio EIRP Occupied Bandwidth Conducted Band Edge Conducted Spurious Emission Frequency Stability	12 13 14 15 16
4		ated Test Items	
- T	4.1 4.2 4.3 4.4	Measuring Instruments Test Setup Test Result of Radiated Test Radiated Spurious Emission	19 19 20
5	List o	of Measuring Equipment	22
6	Meas	surement Uncertainty	24
Аp	pendi:	x A. Test Results of Conducted Test x B. Test Results of Radiated Test x C. Test Setup Photographs	

TEL: 886-3-327-3456 FAX: 886-3-328-4978

Report Template No.: BU5-FGLTE96 Version 2.4

Page Number : 2 of 24

Issue Date : Dec. 11, 2023

Report No.: FG380306G

Report Version : 03

History of this test report

Report No.: FG380306G

Report No.	Version	Description	Issue Date
FG380306G	01	Initial issue of report	Nov. 02, 2023
FG380306G	02	Revise Section 2.1, List of Measuring Equipment and Appendix A This report is an updated version, replacing the report issued on Dec. 01, 2023.	Dec. 07, 2023
FG380306G	03	Add Radiated Spurious Emission test data This report is an updated version, replacing the report issued on Dec. 07, 2023.	Dec. 11, 2023

TEL: 886-3-327-3456 Page Number : 3 of 24
FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

Summary of Test Result

Report No.: FG380306G

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	9.06 dB under limit at 10653.00 MHz for Tx0 3.16 dB under limit at 7362.00 MHz for Tx1

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: Michelle Chen

TEL: 886-3-327-3456 Page Number : 4 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature

Report No.: FG380306G

General Specs

GSM/WCDMA/LTE/5G NR, Bluetooth, BLE, BLE channel sounding, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11a/ax, NFC, WPC Rx and GNSS Rx.

Antenna Type

WWAN:

<Ant. 0>: ILA Antenna <Ant. 1>: ILA Antenna <Ant. 2>: IFA Antenna <Ant. 5>: IFA Antenna <Ant. 6>: IFA Antenna

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

TDD band Power Class							
	PC3 PC2						
n48	V						

	Antenna information									
Band Ant0 Ant1 Ant2 Ant5 Ant6 Main Ant. # Sub A										
n48			-3.5		-2.5	6	2			

Remark:

- 1. For Test Items, Main Ant. means Tx0 and Sub Ant. means Tx1.
- 2. After preliminary scan, the main antenna Ant6 is selected as the worst mode to be reported for conducted test" in the test report.

EUT Information List				
S/N	Performed Test Item			
38011JEKB00251	Conducted Measurement EIRP			
38031JEKB01525	Radiated Spurious Emission			

1.2 Modification of EUT

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

TEL: 886-3-327-3456 Page Number : 5 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

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
Temperature (°C)	20~24
Relative Humidity (%)	43~58

Report No.: FG380306G

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.	03CH12-HY (TAF Code: 3786)	
Test Engineer	Wilson Wu, Jesse Fan and Tim Lee	
Temperature (°C)	20~25	
Relative Humidity (%)	50~60	
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.

TEL: 886-3-327-3456 Page Number : 6 of 24
FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

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.

Report No.: FG380306G

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 **<Tx0 Antenna>:** Y plane with Earphone for 5G NR n48 and EN-DC 66A-n48A; **<Tx1 Antenna>:** X plane without Accessory for 5G NR n48, Z plane with Adapter for EN-DC 66A-n48A 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		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	M
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, Б, С, D, Е, Г	All	Outer_Full	∟, IVI, ⊓
CSE	В	Minimum	Inner_1RB	L, M, H
Frequency Stability	Α	20 MHz or less	Outer_Full	М
RSE	A or B	20 MHz or less	Inner_1RB	L, M, H

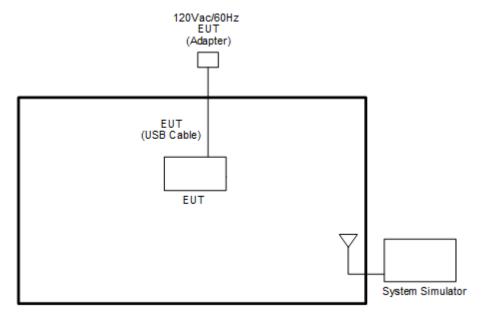
Remark

- 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. For 5G NR test combination is EN-DC 66A_n48A.
- 4. During the RSE preliminary test, the standalone mode and charging modes (Adapter mode and WPC Rx mode) were verified. It is determined that the adapter mode is the worst case for the official test.
- 5. All the radiated test cases were performed with Adapter 1 and USB Cable 3.

TEL: 886-3-327-3456 Page Number : 7 of 24
FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

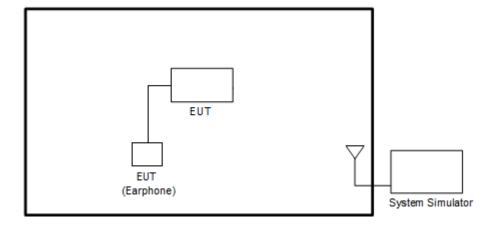
2.2 Connection Diagram of Test System

<EUT with Adapter>



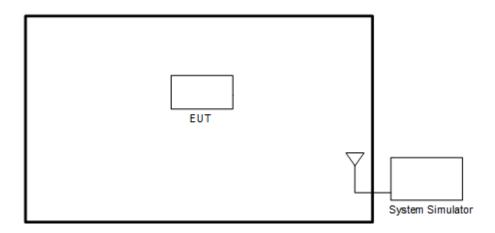
Report No.: FG380306G

<EUT with Earphone>



TEL: 886-3-327-3456 Page Number : 8 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

<EUT without Accessory>



Report No.: FG380306G

2.3 Support Unit used in test configuration

l	tem	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

TEL: 886-3-327-3456 Page Number : 9 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

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.

Report No.: FG380306G

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]	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			

TEL: 886-3-327-3456 Page Number : 10 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

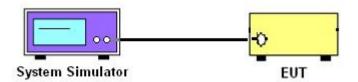
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

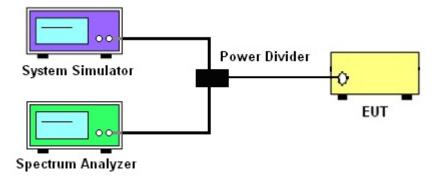
3.1.1 Test Setup

3.1.2 Conducted Output Power

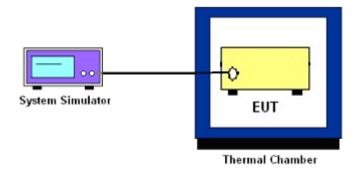


Report No.: FG380306G

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.

TEL: 886-3-327-3456 Page Number : 11 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

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.

Report No.: FG380306G

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.

TEL: 886-3-327-3456 Page Number : 12 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

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.

Report No.: FG380306G

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

TEL: 886-3-327-3456 Page Number : 13 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

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.

Report No.: FG380306G

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

3.4.2 Test Procedures

- 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)
- 2. Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

TEL: 886-3-327-3456 Page Number : 14 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

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

Report No.: FG380306G

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.

TEL: 886-3-327-3456 Page Number : 15 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

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.

Report No.: FG380306G

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.

TEL: 886-3-327-3456 Page Number : 16 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

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.

Report No.: FG380306G

- 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.

TEL: 886-3-327-3456 Page Number : 17 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

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.

Report No.: FG380306G

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.
- 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.

TEL: 886-3-327-3456 Page Number : 18 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

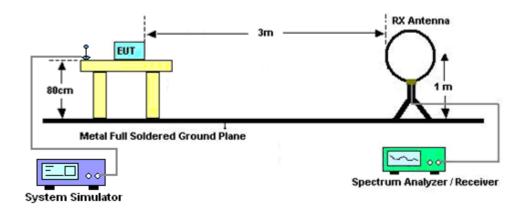
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

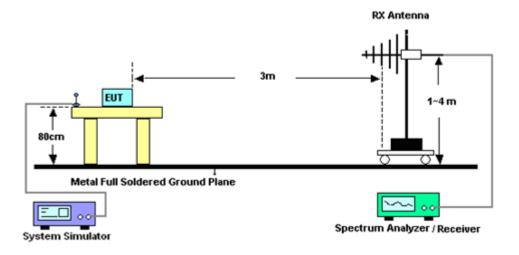
4.2 Test Setup

For radiated emissions below 30MHz



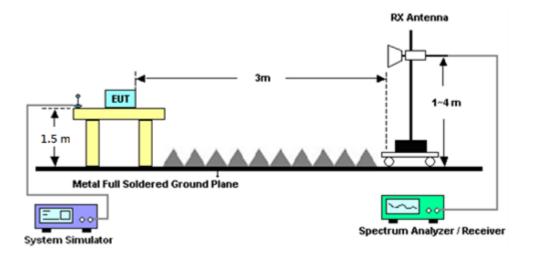
Report No.: FG380306G

For radiated emissions from 30MHz to 1GHz



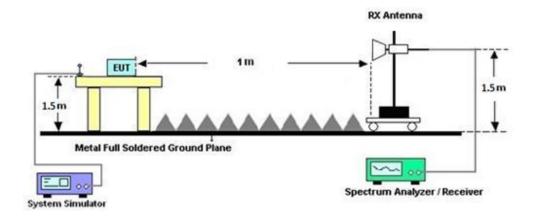
TEL: 886-3-327-3456 Page Number : 19 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

For radiated emissions from 1GHz to 18GHz



Report No.: FG380306G

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.

TEL: 886-3-327-3456 Page Number : 20 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

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.

Report No.: FG380306G

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.
- 9. ERP (dBm) = EIRP 2.15
- 10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

TEL: 886-3-327-3456 Page Number : 21 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

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	100315	9 kHz~30 MHz	Feb. 28, 2023	Aug. 29, 2023~ Dec. 09, 2023	Feb. 27, 2024	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Nov. 10, 2022	Aug. 29, 2023~ Nov. 01, 2023	Nov. 09, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Nov. 03, 2023	Nov. 03, 2023~ Dec. 09, 2023	Nov. 02, 2024	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1241	1GHz~18GHz	Jul. 31, 2023	Aug. 29, 2023~ Dec. 09, 2023	Jul. 30, 2024	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz-40GHz	Nov. 24, 2022	Aug. 29, 2023~ Nov. 22, 2023	Nov. 23, 2023	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	1224	18GHz-40GHz	Jul. 10, 2023	Nov. 23, 2023~ Dec. 09, 2023	Jul. 09, 2024	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PAM-103	161075	10MHz~1GHz	Mar. 21, 2023	Aug. 29, 2023~ Dec. 09, 2023	Mar. 20, 2024	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 23, 2023	Aug. 29, 2023~ Dec. 09, 2023	May 22, 2024	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz-18GHz	Dec. 21, 2022	Aug. 29, 2023~ Dec. 09, 2023	Dec. 20, 2023	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2022	Aug. 29, 2023~ Dec. 05, 2023	Dec. 06, 2023	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 27, 2023	Dec. 06, 2023~ Dec. 09, 2023	Jun. 26, 2024	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 10, 2023	Aug. 29, 2023~ Dec. 09, 2023	Jan. 09, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 14, 2023	Aug. 29, 2023~ Dec. 09, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 07, 2023	Aug. 29, 2023~ Dec. 09, 2023	Mar. 06, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 20, 2022	Aug. 29, 2023~ Dec. 09, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 20, 2022	Aug. 29, 2023~ Dec. 09, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 20, 2022	Aug. 29, 2023~ Dec. 09, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP161250	N/A	Jul. 26, 2023	Aug. 29, 2023~ Dec. 09, 2023	Jul. 25, 2024	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 29, 2023~ Dec. 09, 2023	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Aug. 29, 2023~ Dec. 09, 2023	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Aug. 29, 2023~ Dec. 09, 2023	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Aug. 29, 2023~ Dec. 09, 2023	N/A	Radiation (03CH12-HY)

Report No.: FG380306G

TEL: 886-3-327-3456 Page Number : 22 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Programmable Power Supply	GW Instek	GPE-2323	GET910884	0V~64V ;0A~6A	Dec. 21, 2022	Aug. 25, 2023~ Dec. 05, 2023	Dec. 20, 2023	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	May 03, 2023	Aug. 25, 2023~ Dec. 05, 2023	May 02, 2024	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SH-241	92003713	-30℃ ~90℃	May 17, 2023	Aug. 25, 2023~ Dec. 05, 2023	May 16, 2024	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262116730	LTE	Jul. 10, 2023	Aug. 25, 2023~ Dec. 05, 2023	Jul. 09, 2024	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262134933	FR1	Jul. 10, 2023	Aug. 25, 2023~ Dec. 05, 2023	Jul. 09, 2024	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSW43	101456	RBW 50MHz	Feb. 23, 2023	Aug. 25, 2023~ Dec. 05, 2023	Feb. 22, 2024	Conducted (TH03-HY)

Report No.: FG380306G

TEL: 886-3-327-3456 Page Number : 23 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of	3.07 dB
Confidence of 95% (U = 2Uc(y))	3.07 db

Report No.: FG380306G

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.63 dB
Confidence of 95% (U = $2UC(y)$)	

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

Measuring Uncertainty for a Level of	4.14 dB
Confidence of 95% (U = 2Uc(y))	4.14 UB

TEL: 886-3-327-3456 Page Number : 24 of 24 FAX: 886-3-328-4978 Issue Date : Dec. 11, 2023

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and EIRP

<Tx0 Antenna>

TIXO 7 (II	NR n48 Maximum Average Power [dBm] (GT - LC = -2.5 dB)									
		NR n48 Ma	aximum Aver	age Power	[dBm] (G	T - LC = -2	.5 dB)			
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1		23.98	24.48	24.47				
10	1	22		24.05	24.37	24.40				
10	12	6	PI/2 BPSK	24.06	24.40	24.41				
10	1	0	FIIZ BF3K	23.55	23.95	23.96				
10	1	23		23.59	23.82	23.93		0.1578		
10	24	0		23.57	23.95	23.91	21.98			
10	1	1		23.04	24.43	24.42				
10	1	22		24.11	24.32	24.35				
10	12	6	QPSK	24.07	24.42	24.43				
10	1	0	QFSK	23.08	23.45	23.42				
10	1	23		23.11	23.33	23.35				
10	24	0		23.07	23.41	23.41				
10	1	1	16-QAM	23.07	23.47	23.20				
10	1	1	64-QAM	21.53	21.71	22.09	20.97	0.1250		
10	1	1	256-QAM	19.63	19.93	19.96				
Limit	EIR	o < 23dBm/	10MHz		Result			iss		

		NR n48 Ma	aximum Aver	age Power	· [dBm] (G	T - LC = -2	.5 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1		20.16	24.50	24.45		
15	1	36		24.03	24.30	20.31		
15	18	9	PI/2 BPSK	24.19	24.45	24.35		
15	1	0	FIIZ BF3K	20.12	24.00	23.95		
15	1	37		23.60	23.80	20.32		0.1585
15	36	0		20.17	23.93	20.34	22.00	
15	1	1		20.11	24.43	24.42		
15	1	36		24.04	24.23	20.26		
15	18	9	QPSK	24.17	24.41	24.35		
15	1	0	QFSK	20.13	23.46	23.46		
15	1	37		23.06	23.26	20.31		
15	36	0		20.18	23.43	20.37		
15	1	1	16-QAM	19.25	23.57	23.44		
15	1	1	64-QAM	19.08	22.01	21.92	21.07	0.1279
15	1	1	256-QAM	19.63	20.02	19.89		
Limit EIRP < 23dBm/10MHz		Result			Pa	iss		

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



	ı	NR n48 Ma	aximum Aver	age Power	r [dBm] (G	T - LC = -2.	.5 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1		20.28	24.47	24.50		
20	1	49		24.11	24.21	20.29		
20	25	12	PI/2 BPSK	24.15	24.43	24.34		
20	1	0	FIIZ BF3K	20.17	24.01	24.04		
20	1	50		23.66	23.72	20.29		0.1592
20	50	0		20.19	23.93	20.32	22.02	
20	1	1		20.18	24.52	24.42		
20	1	49		24.06	24.21	20.19		
20	25	12	QPSK	24.22	24.43	24.32		
20	1	0	QFSK	20.21	23.51	23.36		
20	1	50		23.09	23.21	20.25		
20	50	0		20.22	23.40	20.33		
20	1	1	16-QAM	19.38	23.43	23.49		
20	1	1	64-QAM	19.26	21.89	21.83	20.99	0.1256
20	1	1	256-QAM	19.69	19.87	19.97		
Limit	EIR	< 23dBm/	10MHz		Result		Pa	ss

	NR n48 Maximum Average Power [dBm] (GT - LC = -2.5 dB)									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1		13.84	20.49	14.09				
40	1	104		13.40	19.96	13.80				
40	50	25	PI/2 BPSK	13.72	24.42	14.12				
40	1	0	FIIZ BF3K	13.82	20.45	14.04				
40	1	105		13.41	19.91	13.82		0.1556		
40	100	0		13.66	19.91	14.00	21.92			
40	1	1		10.36	20.48	10.52				
40	1	104		9.88	19.90	10.25				
40	50	25	QPSK	10.21	24.42	10.56				
40	1	0	QFSK	10.42	20.55	10.54				
40	1	105		9.88	19.93	10.27				
40	100	0		10.15	19.90	10.53				
40	1	1	16-QAM	10.41	20.69	10.67				
40	1	1	64-QAM	10.39	20.48	10.65	18.19	0.0659		
40	1	1	256-QAM	10.26	20.07	10.52				
Limit	EIR	< 23dBm/	10MHz		Result		Pa	ss		

<Tx1 Antenna>

	NR n48 Maximum Average Power [dBm] (GT - LC = -3.5 dB)									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1		24.03	24.34	24.31				
10	1	22		24.06	24.10	24.16				
10	12	6	PI/2 BPSK	24.08	24.15	24.26				
10	1	0	PI/2 BP3K	23.56	23.79	23.80				
10	1	23		23.60	23.62	23.66		0.1213		
10	24	0		23.60	23.63	23.72	20.84			
10	1	1		24.08	24.26	24.27				
10	1	22		24.07	24.16	24.16				
10	12	6	QPSK	24.15	24.22	24.26				
10	1	0	QFSK	23.07	23.34	23.20				
10	1	23		23.04	23.18	23.15				
10	24	0		23.14	23.13	23.25				
10	1	1	16-QAM	23.20	23.44	23.25				
10	1	1	64-QAM	21.61	21.81	21.91	19.94	0.0986		
10	1	1	256-QAM	19.62	19.69	19.66				
Limit	EIR	o < 23dBm/	10MHz		Result		Pa	iss		

		NR n48 Ma	aximum Aver	age Power	· [dBm] (G	T - LC = -3.	.5 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1		20.09	24.33	24.18		
15	1	36		23.96	24.15	20.06		
15	18	9	PI/2 BPSK	24.15	24.13	24.12		
15	1	0	PI/Z BP3K	20.14	23.79	23.71		
15	1	37		23.42	23.60	20.06		0.1211
15	36	0		20.16	23.63	20.17	20.83	
15	1	1		20.11	24.28	24.16		
15	1	36		23.94	24.06	20.04		
15	18	9	QPSK	24.12	24.14	24.16		
15	1	0	QFSK	20.08	23.28	23.12		
15	1	37		22.91	23.04	20.03		
15	36	0		20.15	23.12	20.14		
15	1	1	16-QAM	19.24	23.29	23.07		
15	1	1	64-QAM	19.17	21.92	21.87	19.79	0.0953
15	1	1	256-QAM	19.52	19.89	19.71]	
Limit	EIR	< 23dBm/	10MHz	Result			Pa	iss

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



SPORTON LAB. FCC RADIO TEST REPORT

	ı	NR n48 Ma	aximum Aver	age Power	[dBm] (G	T - LC = -3.	.5 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1		20.18	24.30	24.06		0.1202
20	1	49		23.92	24.13	20.00		
20	25	12	PI/2 BPSK	24.07	24.14	24.07		
20	1	0	T WZ BI OK	20.19	23.82	23.61	20.80	
20	1	50		23.44	23.61	20.00		
20	50	0		20.13	23.63	20.12		
20	1	1	QPSK	20.14	24.26	24.13		
20	1	49		23.95	24.09	19.98		
20	25	12		24.18	24.15	24.08		
20	1	0	QFSK	20.17	23.28	23.57		
20	1	50		22.92	23.15	19.97		
20	50	0		20.11	23.11	20.09		
20	1	1	16-QAM	19.14	23.45	23.17		
20	1	1	64-QAM	19.22	21.88	21.82	19.95	0.0989
20	1	1	256-QAM	19.79	19.76	19.70		
Limit	EIRF	< 23dBm/	10MHz	_	Result		Pa	iss

	NR n48 Maximum Average Power [dBm] (GT - LC = -3.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)			
40	1	1		13.73	20.37	13.66		0.1191			
40	1	104		13.45	20.08	13.47	20.76				
40	50	25	DI/2 DDEK	13.52	24.23	13.60					
40	1	0	PI/2 BPSK	13.77	20.41	13.72					
40	1	105		13.49	20.08	13.46					
40	100	0		13.51	19.73	13.62					
40	1	1	QPSK	10.27	20.41	10.20					
40	1	104		9.94	20.10	10.04					
40	50	25		10.03	24.26	10.14					
40	1	0	QFSK	10.23	20.38	10.18					
40	1	105		9.92	20.08	10.02					
40	100	0		10.04	19.75	10.15					
40	1	1	16-QAM	10.33	20.39	10.11					
40	1	1	64-QAM	10.25	20.48	10.01	16.98	0.0499			
40	1	1	256-QAM	10.22	19.86	10.07					
Limit	EIRI	< 23dBm/	10MHz		Result	-	Pa	ISS			

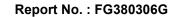
FR1 n48

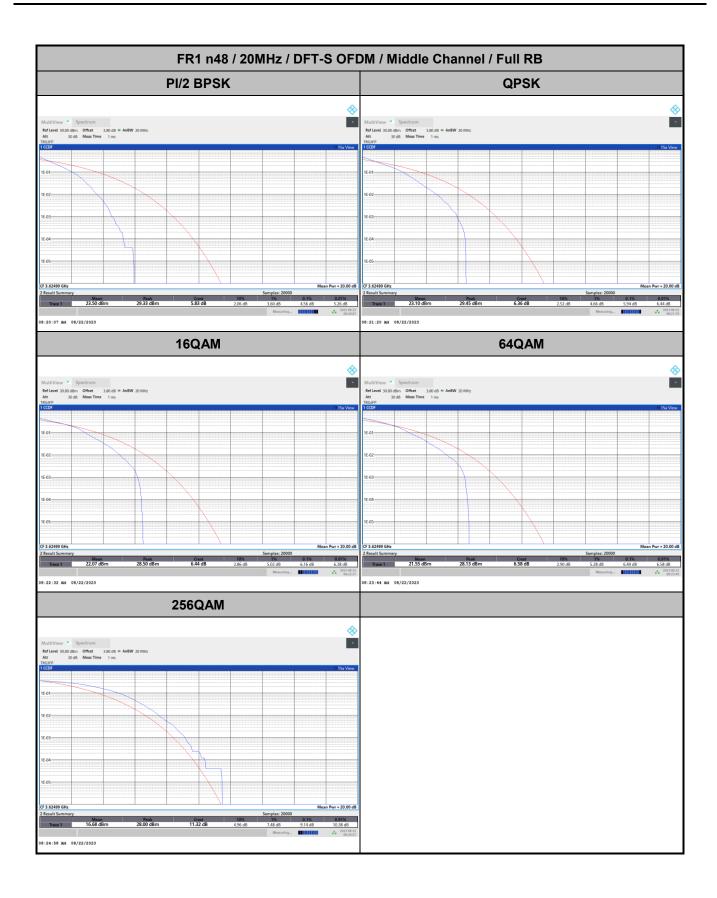
Peak-to-Average Ratio

Mode					
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.56	5.94	6.16	6.40	PASS
Mode		FR1 n48 / 20MH	z / DFT-S OFDM		
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	9.14				PASS

Report No. : FG380306G

TEL: 886-3-327-3456 Page Number : A2-1 of 145





TEL: 886-3-327-3456 Page Number : A2-2 of 145

26dB Bandwidth

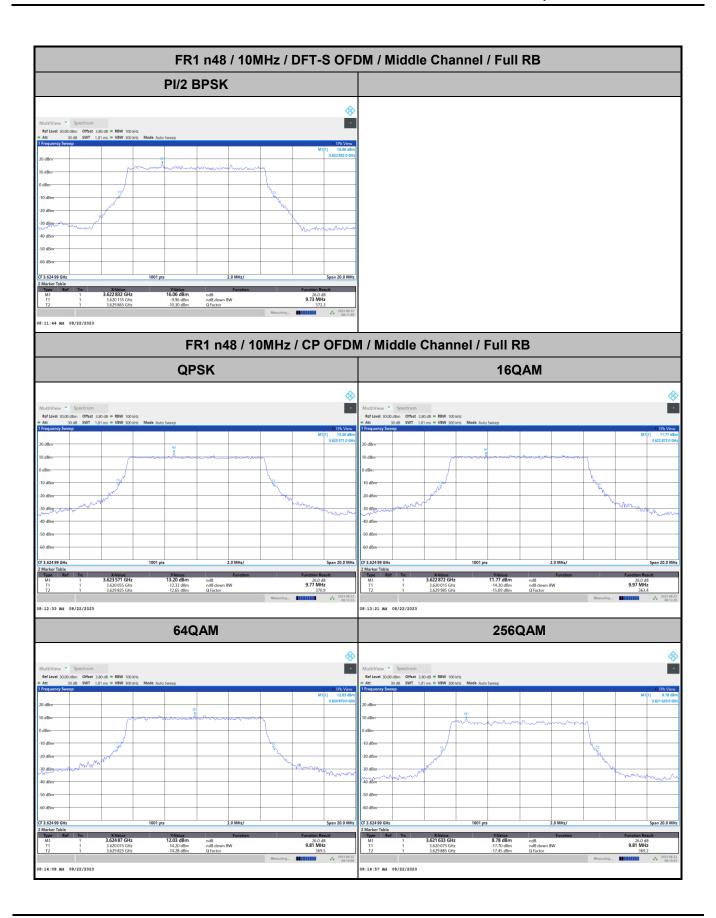
Mode		FR1 n48 : 26dB BW(MHz) / DFT-S OFDM								
BW	10MHz	15MHz	20MHz	30MHz	40MHz	50MHz	60MHz	70MHz		
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK		
Middle CH	9.73	14.71	19.94	-	38.84	-	-	-		
BW	80MHz	90MHz	100MHz							
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK							
Middle CH	-	-	-							

Report No. : FG380306G

Mode			FR1 n	48 : 26dB BV	V(MHz) / CP	OFDM		
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.77	9.97	15.49	15.64	20.38	20.38	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.81	9.81	15.46	15.61	20.30	20.26	-	-
BW	40MHz		50MHz		60MHz		70MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	42.44	42.52	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	42.20	43.16	-	-	-	-	-	-
BW	801	ИHz	90MHz		100MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	-	-	-	-	-	-		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	-	-	-	-	-	-		

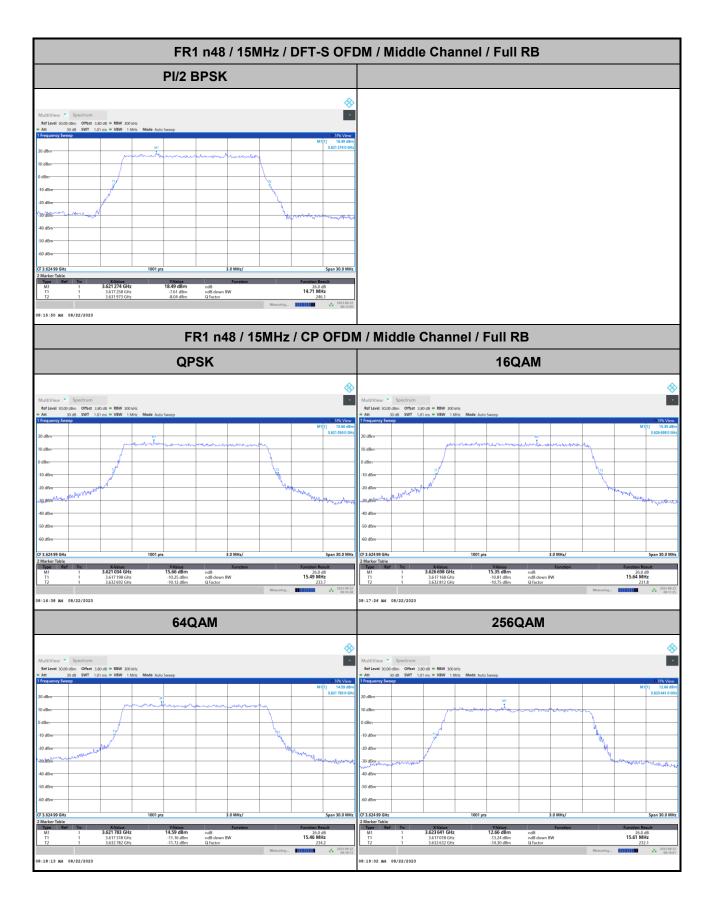
TEL: 886-3-327-3456 Page Number : A2-3 of 145

Report No.: FG380306G



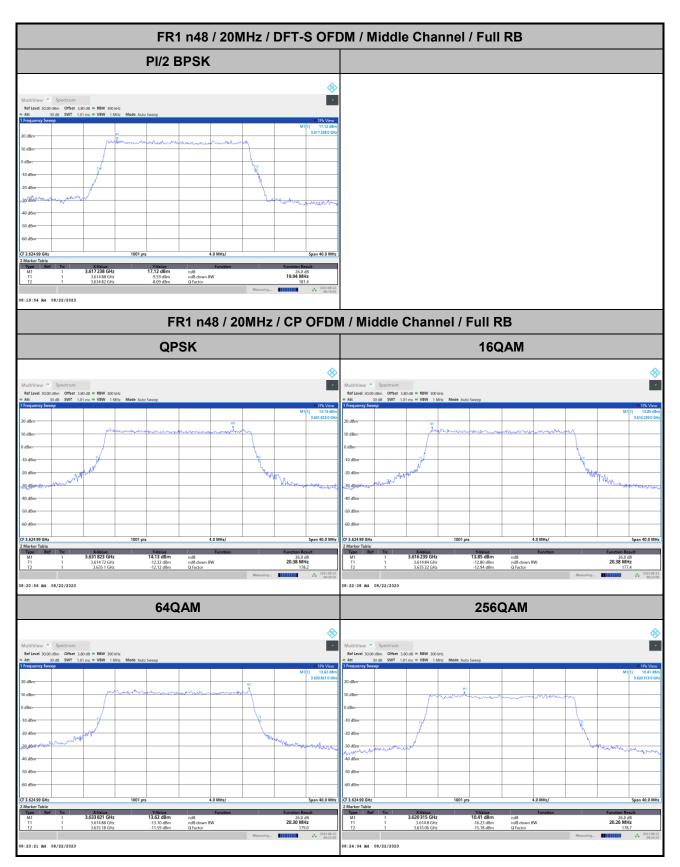
TEL: 886-3-327-3456 Page Number : A2-4 of 145



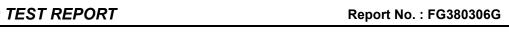


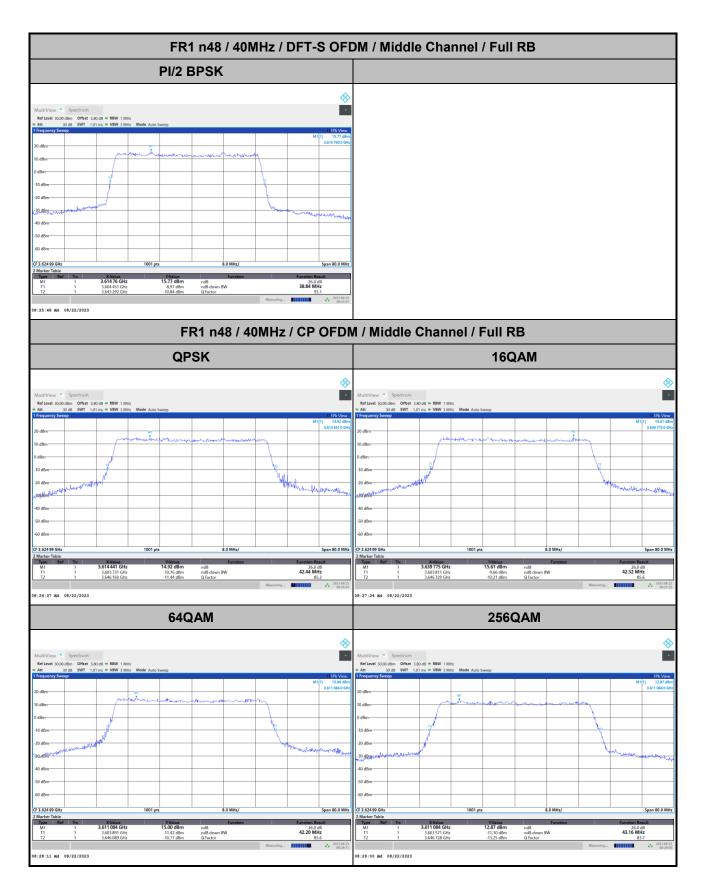
TEL: 886-3-327-3456 Page Number : A2-5 of 145

CC RADIO TEST REPORT Report No. : FG380306G



TEL: 886-3-327-3456 Page Number: A2-6 of 145





TEL: 886-3-327-3456 Page Number : A2-7 of 145

Occupied Bandwidth

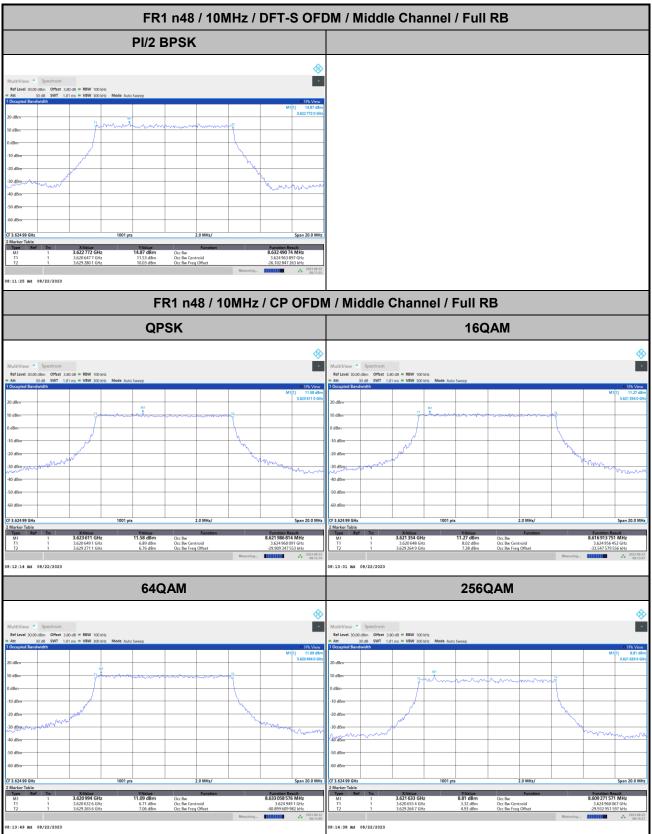
Mode		FR1 n48 : OB BW(MHz) / DFT-S OFDM								
BW	10MHz	10MHz 15MHz 20MHz 30MHz 40MHz 50MHz 60MHz 70MHz								
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK		
Middle CH	8.63	13.04	17.99	-	36.17	-	-	-		
BW	80MHz	90MHz	100MHz							
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK							
Middle CH	-	-	-							

Report No. : FG380306G

Mode			FR1	n48 : OB BW	(MHz) / CP (OFDM		
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.62	8.61	13.73	13.66	18.33	18.33	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.63	8.60	13.76	13.78	18.29	18.30	-	-
BW	40MHz		50MHz		60MHz		70MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	38.19	38.17	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	38.25	38.46	-	-	-	-	-	-
BW	801	ИHz	90MHz		100MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	-	-	-	-	-	-		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	_	
Middle CH	-	-	-	-	-	-		

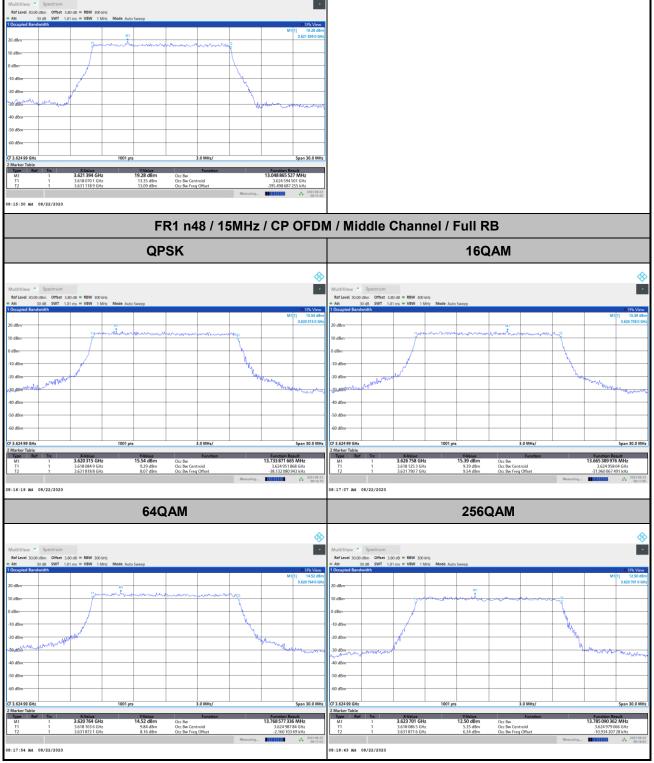
TEL: 886-3-327-3456 Page Number : A2-8 of 145

CC RADIO TEST REPORT Report No. : FG380306G



TEL: 886-3-327-3456 Page Number: A2-9 of 145

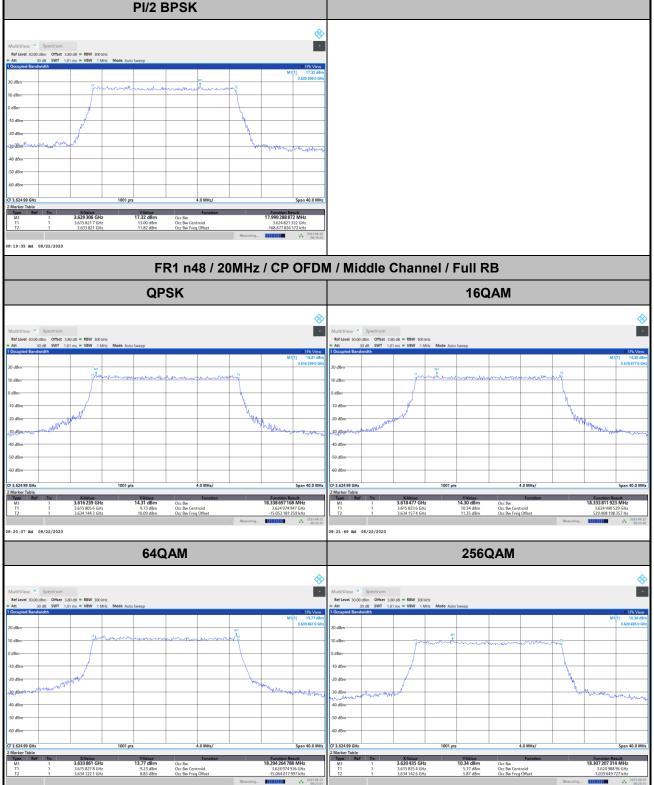
Report No.: FG380306G FR1 n48 / 15MHz / DFT-S OFDM / Middle Channel / Full RB PI/2 BPSK F 3.624 99 GH: Span 30.0 MHz FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB **QPSK 16QAM** 64QAM **256QAM**



8:23:01 AM 08/22/2023

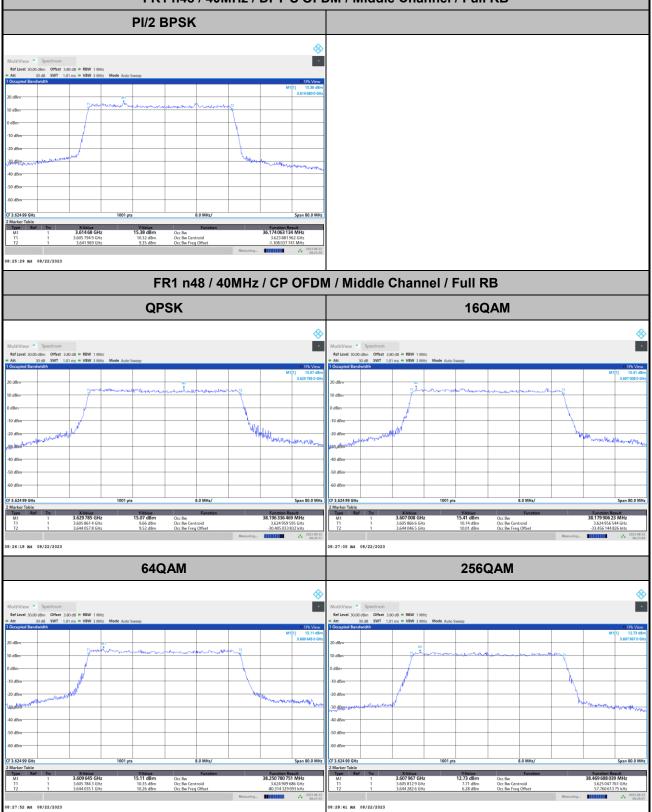
FR1 n48 / 20MHz / DFT-S OFDM / Middle Channel / Full RB PI/2 BPSK F 3.624 99 GH: Span 40.0 MH: FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB **QPSK 16QAM** 64QAM **256QAM**

Report No.: FG380306G



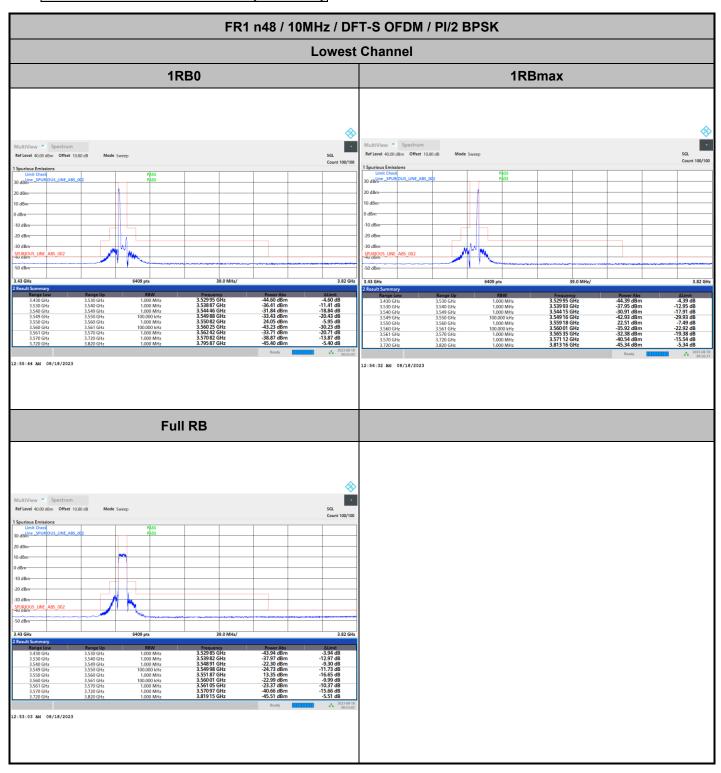
08:24:15 AM 08/22/2023

Report No.: FG380306G FR1 n48 / 40MHz / DFT-S OFDM / Middle Channel / Full RB PI/2 BPSK F 3.624 99 GH: 1001 pts Span 80.0 MH: FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB **QPSK 16QAM** 64QAM **256QAM**



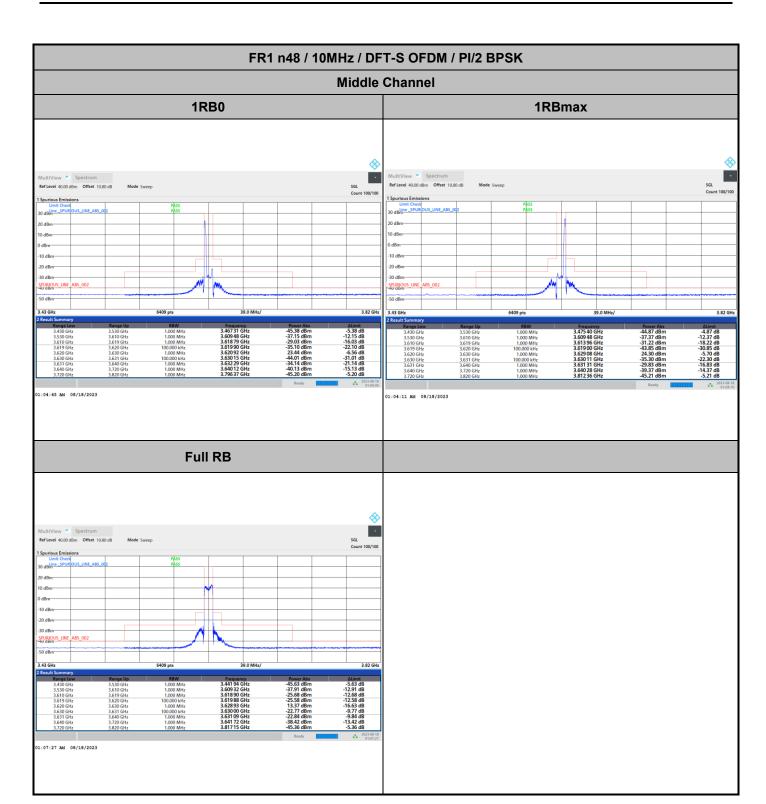
TEL: 886-3-327-3456 Page Number : A2-12 of 145 FAX: 886-3-328-4978

Unwanted Emission (MASK)



Report No.: FG380306G

TEL: 886-3-327-3456 Page Number: A2-13 of 145



Report No.: FG380306G

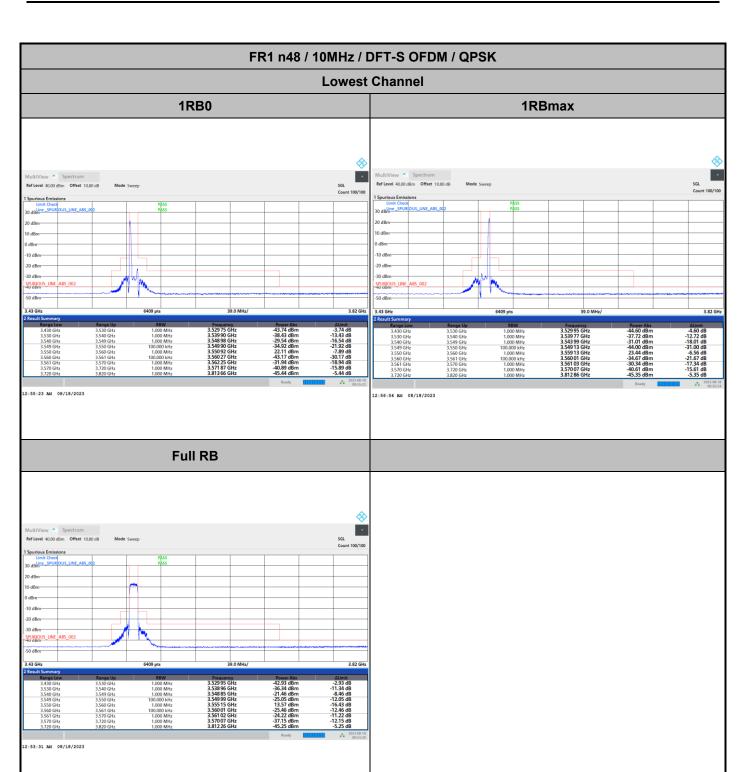
TEL: 886-3-327-3456 Page Number: A2-14 of 145

FR1 n48 / 10MHz / DFT-S OFDM / PI/2 BPSK **Highest Channel** 1RB0 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 10.80 dB -10 dBm -10 dBm 20 dBm SPURIOUS LINE ABS 002 SPURIOUS_LINE_ABS_002 3.82 GHz 3.43 GHz 3.43 GHz 3.82 GH 1:10:54 AM 08/18/2023 Full RB SPURIOUS LINE ABS 002 3.82 GH :08:10 AM 08/18/2023

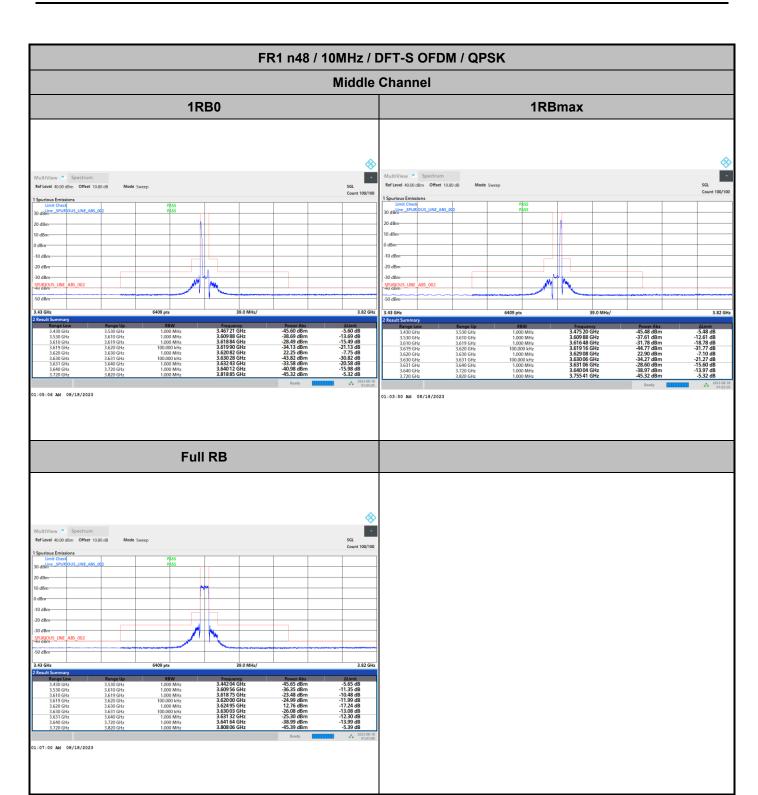
Report No.: FG380306G

TEL: 886-3-327-3456 Page Number: A2-15 of 145



Report No.: FG380306G

TEL: 886-3-327-3456 Page Number: A2-16 of 145



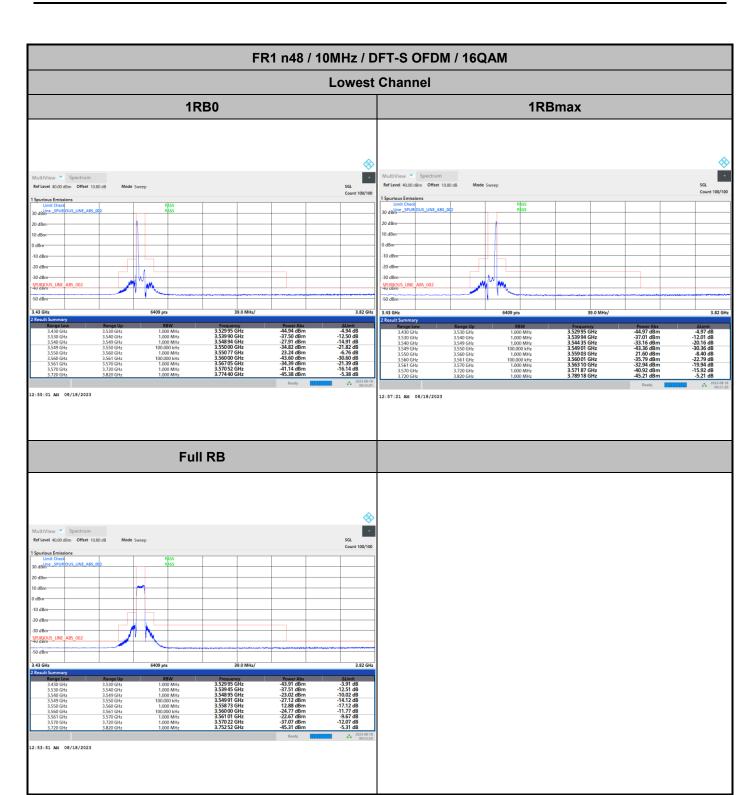
Report No.: FG380306G

TEL: 886-3-327-3456 Page Number : A2-17 of 145

FR1 n48 / 10MHz / DFT-S OFDM / QPSK **Highest Channel** 1RB0 1RBmax -10 dBm -10 dBm 20 dBm SPURIOUS LINE ABS 002 SPURIOUS LINE ABS 002 3.82 GHz 3.43 GHz 3.43 GHz 1:10:33 AM 08/18/2023 Full RB SPURIOUS_LINE_ABS_002 3.82 GH :08:32 AM 08/18/2023

Report No.: FG380306G

TEL: 886-3-327-3456 Page Number : A2-18 of 145



Report No.: FG380306G

TEL: 886-3-327-3456 Page Number: A2-19 of 145