



Report No.: FG3N2325I

# FCC RADIO TEST REPORT

FCC ID : A4RGR83Y

Equipment : Phone Model Name : GR83Y

Applicant : Google LLC

1600 Amphitheatre Parkway,

Mountain View, California, 94043 USA

Standard : FCC 47 CFR Part 2, and 25

The product was received on Jan. 19, 2024 and testing was performed from Feb. 08, 2024 to May 03, 2024. We, Sporton International Inc. Wensan 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Lunis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C)

TEL: 886-3-327-0868 Page Number : 1 of 23
FAX: 886-3-327-0855 Issue Date : May 06, 2024

# **Table of Contents**

Report No. : FG3N2325I

His	story	of This Test Report	3
Su	mmar	y of Test Result	4
1	Gen	eral Description	5
	1.1	Product Feature of Equipment Under Test	5
	1.2	Modification of EUT	
	1.3	Testing Location	
	1.4	Applied Standards	6
2	Test	Configuration of Equipment Under Test	7
	2.1	Test Mode	7
	2.2	Connection Diagram of Test System	7
	2.3	Support Unit used in test configuration and system	7
	2.4	Measurement Results Explanation Example	8
3	Test	Result	9
	3.1	RF Output Power	9
	3.2	Frequency Stability	10
	3.3	Occupied Bandwidth	11
	3.4	Conducted Emissions Mask	12
	3.5	Conducted Spurious Emission	14
	3.6	Field Strength of Spurious Radiation	
	3.7	Additional Limits on Emissions from Mobile Earth Station	19
4	List	of Measuring Equipment	22
5	Mea	surement Uncertainty	23
Αp	pendi	ix A. Test Results of Conducted Test	
Αp	pendi	ix B. Test Results of Radiated Test	
Αp	pendi	ix C. Test Setup Photographs	

TEL: 886-3-327-0868 Page Number : 2 of 23 FAX: 886-3-327-0855 Issue Date : May 06, 2024

# History of this test report

Report No. : FG3N2325I

Report No.	Version	Description	Issue Date
FG3N2325I	01	Initial issue of report	Apr. 24, 2024
FG3N2325I	02	Revise Test Results of Conducted Test This report is an updated version, replacing the report issued on Apr. 24, 2024.	May 06, 2024

TEL: 886-3-327-0868 Page Number : 3 of 23 FAX: 886-3-327-0855 Issue Date : May 06, 2024

# **Summary of Test Result**

Report No.: FG3N2325I

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046(a) §25.204(a)	RF Output Power	40dBW(max)	PASS	-
3.2	§2.1055 §25.202(d)	Frequency Stability	within 0.001 percent of the reference frequency.	PASS	-
3.3	§2.1049	Occupied Bandwidth	-	PASS	-
3.4	§2.1051 §25.202(f)	Conducted Emissions Mask	§25.202(f)	PASS	-
3.5	§2.1051 §25.202(f)	Conducted Spurious Emission	§25.202(f)	Pass	-
3.6	§2.1053 Field Strength of Spurious 825.202(f) Radiation		§25.202(f)	PASS	43.18 dB under the limit at 8080.00 MHz
3.7	§25.216(c)(e)(h)(i)	Additional Limits on Emissions from Mobile Earth Station	§25.216(c)(e)(h)(i)	PASS	-

#### **Conformity Assessment Condition:**

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

#### Disclaimer:

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

Reviewed by: William Chen Report Producer: Lucy Wu

TEL: 886-3-327-0868 Page Number : 4 of 23 FAX: 886-3-327-0855 Issue Date : May 06, 2024

# 1 General Description

# 1.1 Product Feature of Equipment Under Test

#### **Product Feature**

Report No.: FG3N2325I

#### **General Specs**

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

#### **Antenna Type**

NTN:

<ant. 1>: ILA Antenna<ant. 5>: IFA Antenna

EUT Information List				
S/N	Performed Test Item			
41101FDAP0002K	Conducted Measurement EIRP			
41051FDAP00020	Radiated Spurious Emission			

Antenna information									
Band	Band Ant1 Ant5 Main Ant. # Sub Ant. #								
B23	-4.7		-	-					
B255		-4.3	-	-					

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

## 1.2 Modification of EUT

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

TEL: 886-3-327-0868 Page Number : 5 of 23
FAX: 886-3-327-0855 Issue Date : May 06, 2024

# 1.3 Testing Location

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.				
Test Site No.	TH05-HY	03CH21-HY			
Test Engineer	Alston Tsai	Jack Cheng, Ray Lung and Sky Chang			
Temperature (°C)	24~26 18~26				
Relative Humidity (%)	50~53	50~70			

Report No.: FG3N2325I

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

FCC Designation No.: TW3786

# 1.4 Applied Standards

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

- FCC 47 CFR Part 2, 25
- ANSI C63.26-2015
- ANSI/TIA-603-E
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

#### Remark:

- 1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.

TEL: 886-3-327-0868 Page Number : 6 of 23
FAX: 886-3-327-0855 Issue Date : May 06, 2024

# 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.

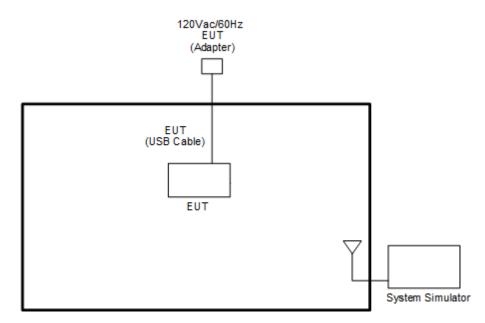
Report No.: FG3N2325I

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 Y plane with Adapter as worst plane.

#### Remark:

- 1. All the radiated test cases were performed with Adapter 1 and USB Cable 2.
- During the preliminary test, both charging modes (Adapter mode and WPT mode) and standalone mode were verified. It is determined that the adaptor mode is the worst case for official test.

# 2.2 Connection Diagram of Test System



# 2.3 Support Unit used in test configuration and system

Ite	m Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMW 500	N/A	N/A	Unshielded, 1.8 m

TEL: 886-3-327-0868 Page Number : 7 of 23
FAX: 886-3-327-0855 Issue Date : May 06, 2024

# 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.: FG3N2325I

### Example:

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.

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

TEL: 886-3-327-0868 Page Number : 8 of 23
FAX: 886-3-327-0855 Issue Date : May 06, 2024

## 3 Test Result

# 3.1 RF Output Power

### 3.1.1 Description of the Conducted Output Power Measurement

### FCC Part 25.204 (a)

In bands shared coequally with terrestrial radio communication services, the equivalent isotropically radiated power transmitted in any direction towards the horizon by an earth station, other than an ESV, operating in frequency bands between 1 and 15 GHz, shall not exceed the following limits except as provided for in paragraph (c) of this section:

Report No.: FG3N2325I

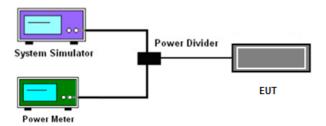
- + 40 dBW in any 4 kHz band for θ ≤0°
- $+40 + 3\theta$  dBW in any 4 kHz band for  $0^{\circ} < \theta \le 5^{\circ}$

Where  $\theta$  is the angle of elevation of the horizon viewed from the center of radiation of the antenna of the earth station and measured in degrees as positive above the horizontal plane and negative below it.

#### 3.1.2 Test Procedures

The output power is measured by using power meter when the transmitter is operating at the manufacturer's rated power and modulated with signals. The maximum antenna gain of EUT for the test range will then be added to the measured conducted power to calculate the EIRP. Since the power meter can only measure the overall power, the measured result will be worse than the one measured in 4 kHz RBW. The test result will be compared to the most restricted limit: +40 dBW.

#### 3.1.3 Test Setup



### 3.1.4 Test Results

Please refer to Appendix A.

TEL: 886-3-327-0868 Page Number : 9 of 23
FAX: 886-3-327-0855 Issue Date : May 06, 2024

# 3.2 Frequency Stability

### 3.2.1 Description of the Frequency Stability Measurement

FCC Part 25.202 (d) Frequency tolerance, Earth stations. The carrier frequency of each earth station transmitter authorized in these services shall be maintained within 0.001 percent of the reference frequency.

Report No.: FG3N2325I

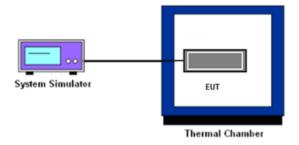
### 3.2.2 Test Procedures for Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 v03r01 Section 9.
- 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 steps 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.

## 3.2.3 Test Procedures for Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 Section 9.
- 2. The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from the lowermost voltage to the uppermost voltage. The range is specified by manufacturer.
- 4. The variation in frequency was measured for the worst case.

#### 3.2.4 Test Setup



#### 3.2.5 Test Results

Please refer to Appendix A.

TEL: 886-3-327-0868 Page Number : 10 of 23
FAX: 886-3-327-0855 Issue Date : May 06, 2024

# 3.3 Occupied Bandwidth

### 3.3.1 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.

Report No.: FG3N2325I

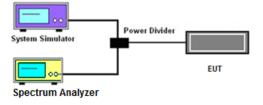
## 3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.3.3 Test Procedures

- 1. The testing follows FCC KDB 971168 D01 v03r01 Section 4.2.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 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. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

### 3.3.4 Test Setup



#### 3.3.5 Test Result

Please refer to Appendix A.

TEL: 886-3-327-0868 Page Number : 11 of 23
FAX: 886-3-327-0855 Issue Date : May 06, 2024

## 3.4 Conducted Emissions Mask

### 3.4.1 Description of Conducted Spurious Emission Measurement

**FCC Part 25.202(f) Emissions Limitations** The mean power of the emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

Report No.: FG3N2325I

- (1) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 50% up to and including 100% of the authorized bandwidth: 25 decibels:
- (2) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 100% up to and including 250% of the authorized bandwidth: 35 decibels;

### 3.4.2 Measuring Instruments

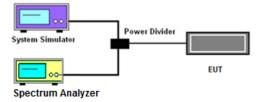
The measuring equipment is listed in the section 4 of this test report.

#### 3.4.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v03r01 D01 Section 6.1.
- 2. The EUT was connected to the spectrum analyzer.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 4. The highest RF power within the transmitting frequency was measured.
- 5. Make the measurement with the spectrum analyzer's RBW = 5kHz, VBW = 20kHz, taking the record of the worst unwanted emission.
- 6. If the test result in Step 5 exceed the limit, the following procedure will be used:
  - 6.1. Make the measurement with the spectrum analyzer's RBW = 1kHz, VBW = 3kHz.
  - 6.2. Record all measured worst frequencies.
  - 6.3. Use the Channel Power Function of the Spectrum Analyzer.
  - 6.4. Measure the powers of 4kHz bandwidth center the worst frequencies.
- 7. The limit line is derived from FCC 25.202 (f) below the transmitter power P(Watts)

TEL: 886-3-327-0868 Page Number : 12 of 23
FAX: 886-3-327-0855 Issue Date : May 06, 2024

# 3.4.4 Test Setup



Report No. : FG3N2325I

## 3.4.5 Test Result

Please refer to Appendix A.

TEL: 886-3-327-0868 Page Number : 13 of 23 FAX: 886-3-327-0855 Issue Date : May 06, 2024

# 3.5 Conducted Spurious Emission

## 3.5.1 Description of Conducted Spurious Emission Measurement

**FCC Part 25.202(f) Emissions Limitations** The mean power of the emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

Report No.: FG3N2325I

(3) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250% of the authorized bandwidth: an amount equal to 43 decibels plus 10 times Logarithm (to the base 10) of the transmitter power in watts.

## 3.5.2 Measuring Instruments

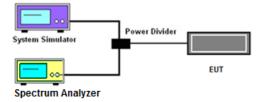
The measuring equipment is listed in the section 4 of this test report.

#### 3.5.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v03r01 D01 Section 6.1.
- 2. The EUT was connected to the spectrum analyzer.
- 3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 4. The highest RF power within the transmitting frequency was measured.
- Peak detector is used instead of RMS detector since the measured result of Peak detector is worse than the RMS one. If the test result of Peak detector exceed the limit, RMS detector will then be used.
- 6. Make the measurement with the spectrum analyzer's RBW = 100kHz, VBW = 300kHz, taking the record of the worst unwanted emission.
- 7. The conducted spurious emission for the whole frequency range was taken.
- 8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 9. The limit line is derived from FCC 25.202 (f) below the transmitter power P(Watts)

TEL: 886-3-327-0868 Page Number : 14 of 23
FAX: 886-3-327-0855 Issue Date : May 06, 2024

# 3.5.4 Test Setup



Report No. : FG3N2325I

## 3.5.5 Test Result

Please refer to Appendix A.

TEL: 886-3-327-0868 Page Number : 15 of 23 FAX: 886-3-327-0855 Issue Date : May 06, 2024

# 3.6 Field Strength of Spurious Radiation

## 3.6.1 Description of Radiated Spurious Emission

**FCC Part 25.202(f) Emissions Limitations** The mean power of the emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

Report No.: FG3N2325I

(3) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250% of the authorized bandwidth: an amount equal to 43 decibels plus 10 times Logarithm (to the base 10) of the transmitter power in watts

## 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

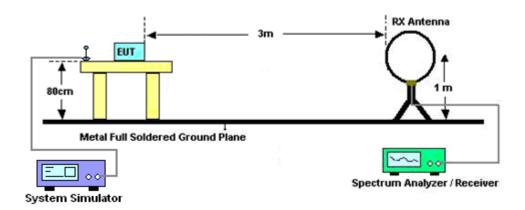
#### 3.6.3 Test Procedures

- 1. The testing follows ANSI/TIA-603-E.
- 2. The EUT was placed on a rotatable table with:
  - 0.8 meter above ground for emissions under 1 GHz
  - 1.5 meter above ground for emissions above 1 GHz
- 3. The EUT was set 3 meters from the receiving antenna, which was 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 one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- Peak detector is used instead of RMS detector since the measured result of Peak detector is worse than the RMS one. If the test result of Peak detector exceed the limit, RMS detector will then be used.
- 7. Make the measurement with the spectrum analyzer's RBW = 100kHz, VBW = 300kHz, taking the record of maximum spurious emission.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

TEL: 886-3-327-0868 Page Number : 16 of 23
FAX: 886-3-327-0855 Issue Date : May 06, 2024

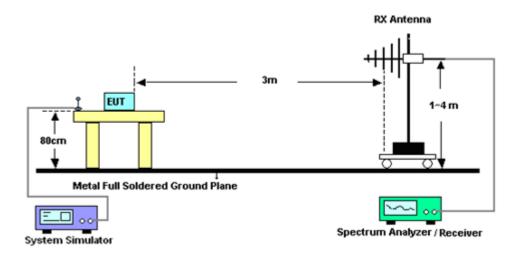
# 3.6.4 Test Setup

For radiated emissions from 10KHz to 30MHz.



Report No. : FG3N2325I

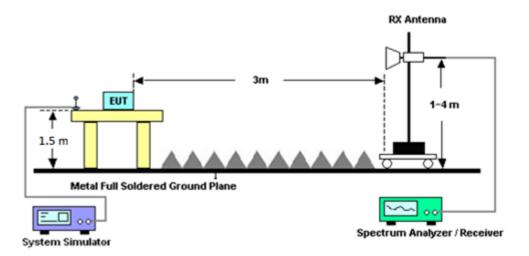
#### For radiated emissions from 30MHz to 1GHz



TEL: 886-3-327-0868 Page Number : 17 of 23 FAX: 886-3-327-0855 Issue Date : May 06, 2024

C RADIO TEST REPORT Report No. : FG3N2325I

### For radiated emissions above 1GHz



### 3.6.5 Test Results

Please refer to Appendix B.

 TEL: 886-3-327-0868
 Page Number
 : 18 of 23

 FAX: 886-3-327-0855
 Issue Date
 : May 06, 2024

## 3.7 Additional Limits on Emissions from Mobile Earth Station

Additional Limits on emissions from mobile earth stations for protection of aeronautical radionavigation-satellite service and Special requirements for ancillary terrestrial components operating in the 1626.5-1660.5 MHz and 2000-2020 MHz bands.

Report No.: FG3N2325I

# 3.7.1 Description of Additional Limits on Emissions from Mobile Earth Station

FCC Part 25.216 Emissions Limitations:

(c) The e.i.r.p. density of emissions from mobile earth stations placed in service after July 21, 2002 with assigned uplink frequencies between 1610 MHz and 1660.5 MHz shall not exceed -70 dBW/MHz, averaged over any 2 millisecond active transmission interval, in the band 1559-1605 MHz. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed -80 dBW, averaged over any 2 millisecond active transmission interval, in the 1559-1605 MHz band.

(e) The e.i.r.p density of emissions from mobile earth stations with assigned uplink frequencies between 1990 MHz and 2025 MHz shall not exceed -70 dBW/MHz, averaged over any 2 millisecond active transmission interval, in frequencies between 1559 MHz and 1610 MHz. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations between 1559 MHz and 1605 MHz shall not exceed -80 dBW, averaged over any 2 millisecond active transmission interval. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations between 1605 MHz and 1610 MHz manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 shall not exceed -80 dBW, averaged over any 2 millisecond active transmission interval.

(h) Mobile earth stations manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies in the 1626.5-1660.5 MHz band shall suppress the power density of emissions in the 1605-1610 MHz band-segment to an extent determined by linear interpolation from −70 dBW/MHz at 1605 MHz to −46 dBW/MHz at 1610 MHz, averaged over any 2 millisecond active transmission interval. The e.i.r.p of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed a level determined by linear interpolation from −80 dBW at 1605 MHz to −56 dBW at 1610 MHz, averaged over any 2 millisecond active transmission interval.

TEL: 886-3-327-0868 Page Number : 19 of 23
FAX: 886-3-327-0855 Issue Date : May 06, 2024

(i) The e.i.r.p density of carrier-off state emissions from mobile earth stations manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies between 1 and 3 GHz shall not exceed −80 dBW/MHz in the 1559-1610 MHz band averaged over any two millisecond interval.

Report No.: FG3N2325I

(j) A Root-Mean-Square detector shall be used for all power density measurements.

### 3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.7.3 Test Procedures

#### For Conducted test:

- 1. The testing follows FCC KDB 971168 v03r01 D01 Section 6.1.
- 2. The EUT was connected to the spectrum analyzer.
- 3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 4. The highest RF power within the transmitting frequency was measured.
- Make the measurement with the spectrum analyzer's RBW = 1kHz for discrete emissions,
   RBW = 1MHz for broadband emissions, and VBW = 3 x RBW Taking the record of maximum spurious emission.

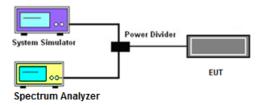
#### For Radiated test:

- 1. The testing follows ANSI/TIA-603-E.
- 2. The EUT was placed on a rotatable table with 1.5 meter above ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was 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 one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- Make the measurement with the spectrum analyzer's RBW = 1kHz for discrete emissions,
   RBW = 1MHz for broadband emissions, and VBW = 3 x RBW Taking the record of maximum spurious emission.

TEL: 886-3-327-0868 Page Number : 20 of 23
FAX: 886-3-327-0855 Issue Date : May 06, 2024

## 3.7.4 Test Setup

For conducted test



Report No. : FG3N2325I

For Radiated test, please refer to clause 3.6.4 of this test report.

#### 3.7.5 Test Results

For test results of conducted test, please refer to Appendix A.

For test results of Radiated test, please refer to Appendix B.

TEL: 886-3-327-0868 Page Number : 21 of 23
FAX: 886-3-327-0855 Issue Date : May 06, 2024

# 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101907	10Hz~40GHz	Aug. 15, 2023	Feb. 08, 2024~ May 03, 2024	Aug. 14, 2024	Conducted (TH05-HY)
Rohde & Schwarz	R&S	CMW500	149637	GSM/GPRS/WC DMA/LTE(FDD/ TDD 42~44) /IP TPUT/ Volte(Audio)	Sep. 08, 2023	Feb. 08, 2024~ May 03, 2024	Sep. 07, 2024	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GET86154 6	0V~64V ; 0A~6A	Jun. 14, 2023	Feb. 08, 2024~ May 03, 2024	Jun. 13, 2024	Conducted (TH05-HY)
Temperature Chamber	ESPEC	LHU-113	101200586 0	-20℃~85℃	Dec. 13, 2023	Feb. 08, 2024~ May 03, 2024	Dec. 12, 2024	Conducted (TH05-HY)
Coupler	MVE	MVE4816	A400014	0.5~18GHz	Mar. 16, 2023	Feb. 08, 2024~ Mar. 12, 2024	Mar. 15, 2024	Conducted (TH05-HY)
Coupler	MVE	MVE4816	A400014	0.5~18GHz	Mar. 12, 2024	Mar. 12, 2024~ May 03, 2024	Mar. 11, 2025	Conducted (TH05-HY)
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Mar. 12, 2024~ Mar. 13, 2024	Sep. 11, 2024	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Oct. 15, 2023	Mar. 12, 2024~ Mar. 13, 2024	Oct. 14, 2024	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A1 8EN	1GHz~18GHz	Jul. 12, 2023	Mar. 12, 2024~ Mar. 13, 2024	Jul. 11, 2024	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1223	18GHz~40GHz	Jul. 10, 2023	Mar. 12, 2024~ Mar. 13, 2024	Jul. 09, 2024	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 15, 2023	Mar. 12, 2024~ Mar. 13, 2024	Jul. 14, 2024	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 28, 2023	Mar. 12, 2024~ Mar. 13, 2024	Sep. 27, 2024	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060871	18GHz~40GHz	Aug. 30, 2023	Mar. 12, 2024~ Mar. 13, 2024	Aug. 29, 2024	Radiation (03CH21-HY)
Spectrum Analyzer	Keysight	N9010B	MY621703 58	10Hz~44GHz	Aug. 28, 2023	Mar. 12, 2024~ Mar. 13, 2024	Aug. 27, 2024	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Mar. 12, 2024~ Mar. 13, 2024	Mar. 05, 2025	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,8 04612/2,80 4614/2	30MHz~40GHz	Oct. 24, 2023	Mar. 12, 2024~ Mar. 13, 2024	Oct. 23, 2024	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 30, 2023	Mar. 12, 2024~ Mar. 13, 2024	Oct. 29, 2024	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 12, 2024~ Mar. 13, 2024	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Mar. 12, 2024~ Mar. 13, 2024	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 12, 2024~ Mar. 13, 2024	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-00105 3	N/A	N/A	Mar. 12, 2024~ Mar. 13, 2024	N/A	Radiation (03CH21-HY)

Report No. : FG3N2325I

 TEL: 886-3-327-0868
 Page Number
 : 22 of 23

 FAX: 886-3-327-0855
 Issue Date
 : May 06, 2024

# 5 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))	0.04 dB

Report No.: FG3N2325I

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.33 dB
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### <u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of	3 CO 4D
Confidence of 95% (U = 2Uc(y))	3.68 dB

TEL: 886-3-327-0868 Page Number : 23 of 23 FAX: 886-3-327-0855 Issue Date : May 06, 2024

# **Appendix A. Test Results of Conducted Test**

# Band 23

# Conducted Output Power (Average power) and EIRP

Band 23 SCS 3.75kHz								
Test Frequency	SC Size	Pov	ucted wer Bm)	Antenna Gain (dBi)	EIRP Power (dBm)		Result	
(MHz)		BPSK	QPSK	` ,	BPSK	QPSK		
2000.1	1SC0	20.96	22.15	-4.7	16.26	17.45		
2000.1	1SC47	20.77	22.21	-4.7	16.07	17.51		
2010	1SC0	20.88	22.28	-4.7	16.18	17.58	PASS	
2010	1SC47	20.61	22.33	-4.7	15.91	17.63	PASS	
2019.9	1SC0	20.73	22.12	-4.7	16.03	17.42		
2019.9	1SC47	21.04	22.21	-4.7	16.34	17.51		

Report No.: FG3N2325I

Band 23 SCS 15kHz							Limit
Test Frequency (MHz)	SC Size	Conducted Power (dBm) BPSK QPSK		Antenna Gain (dBi)	EIRP Power (dBm) BPSK QPSK		Result
	1SC0	22.91	23.49	-4.7	18.21	18.79	
	1SC11	22.52	23.52	-4.7	17.82	18.82	
2000.1	3SC0	NA	21.34	-4.7	NA	16.64	PASS
	3SC9	NA	21.22	-4.7	NA	16.52	
	6SC0	NA	21.38	-4.7	NA	16.68	
	6SC6	NA	21.45	-4.7	NA	16.75	
	12SC0	NA	20.63	-4.7	NA	15.93	
2010	1SC0	22.92	23.27	-4.7	18.22	18.57	
	1SC11	22.38	23.33	-4.7	17.86	18.63	
	3SC0	NA	21.22	-4.7	NA	16.52	
	3SC9	NA	21.15	-4.7	NA	16.45	
	6SC0	NA	21.23	-4.7	NA	16.53	
	6SC6	NA	21.19	-4.7	NA	16.49	
	12SC0	NA	20.79	-4.7	NA	16.09	
2019.9	1SC0	22.56	22.08	-4.7	17.86	17.83	
	1SC11	22.89	21.98	-4.7	18.19	17.28	
	3SC0	NA	21.37	-4.7	NA	16.67	
	3SC9	NA	21.30	-4.7	NA	16.60	
	6SC0	NA	21.30	-4.7	NA	16.60	
	6SC6	NA	21.27	-4.7	NA	16.57	
	12SC0	NA	20.45	-4.7	NA	15.75	

TEL: 886-3-327-0868 Page Number : A1 of A42

# **Occupied Bandwidth**

Mode	Band 23 : 99%OBW(kHz)
SCS	15kHz
Mod.	QPSK
SC Size	12SC0
Lowest CH	182.82
Middle CH	182.82
Highest CH	182.82

Report No. : FG3N2325I

TEL: 886-3-327-0868 Page Number : A2 of A42

Band 23 SCS 15kHz Lowest Channel / 12SC0 / QPSK Spectrum Ref Level 30.00 Att 1Pk Max 12.71 dBr 2.000142560 GH 182.817182817 kH 20 dBm 0 dBm--10 dBm MANNAM -30 dgm 50 dBm Y-value Function

12.71 dBm

1.64 dBm Occ Bw

1.52 dBm Function Result 182.817182817 kHz Datu: 9.MAR.2024 00:38:40 Middle Channel / 12SC0 / QPSK ∀ Ref Level 30.00 dBm • Att 30 dB • 1Pk Max 10 dBm--10 dBm -20 dBm mymm 30 dgm 60 dBm 182.817182817 kHz Highest Channel / 12SC0 / QPSK ∀ 20 dBm-10 dBm-0 dBm--20 dBm -50 dBm CF 2.0199 GHz Span 600.0 kHz 
 X-value
 Y-value
 Function

 2.01994196 GHz
 12.75 dBm
 Cc 8w

 2.019911289 GHz
 1.85 dBm
 Occ 8w

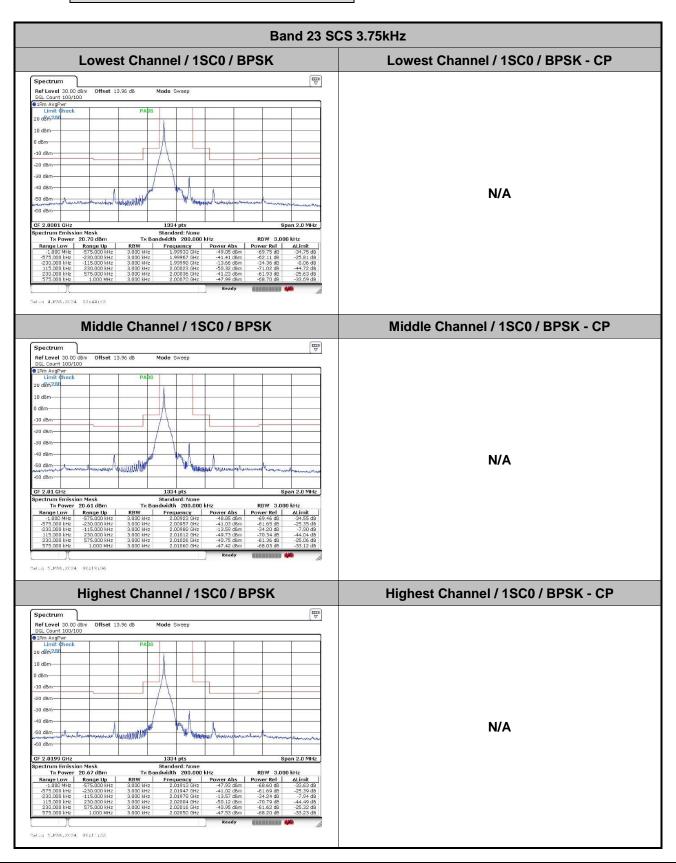
 2.0199194106 GHz
 0.92 dBm
 Type Ref Trc Function Result 182.817182817 kHz

Report No.: FG3N2325I

TEL: 886-3-327-0868 Page Number : A3 of A42

Datu: 9.MAR.2024 00:39:22

# **Conducted Emissions Mask**



Report No.: FG3N2325I

TEL: 886-3-327-0868 Page Number : A4 of A42

Report No.: FG3N2325I Band 23 SCS 3.75kHz Lowest Channel / 1SC47 / BPSK Lowest Channel / 1SC47 / BPSK-CP 7 Ref Level 30.00 vr heck N/A Call: 4.MAR.2024 23:43:44 Middle Channel / 1SC47 / BPSK-CP Middle Channel / 1SC47 / BPSK **□** Ref Level 30.00 dBm Offset 13.96 dB SGL Count 100/100 Mode Sweep 1Rm AvgPwr Limit Check N/A Manument Dalbi: 9.MAR.2024 00:20:21 Highest Channel / 1SC47 / BPSK Highest Channel / 1SC47 / BPSK-CP Spectrum Offset 13.96 dB 10 dBmdBm--10 dBm -30 dBm 40 dBm N/A Militaria Standard: None ndwidth 200.000 kHz

Remark: The above results of RBW 1kHz corrected by 10log(4kHz/1kHz) is passed.

TEL: 886-3-327-0868 Page Number : A5 of A42

FAX: 886-3-327-0855

Datu: 5.MAR.2024 00:15:50

Band 23 SCS 3.75kHz Lowest Channel / 1SC0 / QPSK Lowest Channel / 1SC0 / QPSK - CP Spectrum Ref Level 30.0 SGL Count 100/ N/A -50 dBm Date: 30.APR.2024 21:57:33 Middle Channel / 1SC0 / QPSK - CP Middle Channel / 1SC0 / QPSK **□** Ref Level 30.00 dBm Offset 13.96 dB SGL Count 100/100 1Rm AvgPwr Mode Sweep -20 dBm N/A -50 dBm-CF 2.01 GF Date: 30.APR.2024 22:07:22 Highest Channel / 1SC0 / QPSK Highest Channel / 1SC0 / QPSK - CP Spectrum Offset 13.96 dB 0 dBm<sup>2</sup> -10 dBm--30 dBm-N/A

Report No.: FG3N2325I

TEL: 886-3-327-0868 Page Number : A6 of A42

FAX: 886-3-327-0855

Date: 30.APR.2024 21:52:41

Report No.: FG3N2325I Band 23 SCS 3.75kHz Lowest Channel / 1SC47 / QPSK Lowest Channel / 1SC47 / QPSK -CP Ref Level 30. SGL Count 100 N/A Date: 30.APR.2024 21:59:16 Middle Channel / 1SC47 / QPSK Middle Channel / 1SC47 / QPSK -CP **□** Ref Level 30.00 dBm Offset 13.96 dB SGL Count 100/100 1Rm AvgPwr N/A CF 2.01 G Date: 30.APR.2024 22:31:37 Highest Channel / 1SC47 / QPSK Highest Channel / 1SC47 / QPSK CP Spectrum -10 dBm N/A

Remark: The above results of RBW 1kHz corrected by 10log(4kHz/1kHz) is passed.

TEL: 886-3-327-0868 Page Number : A7 of A42 FAX: 886-3-327-0855

Band 23 SCS 15kHz Lowest Channel / 1SC0 / BPSK Lowest Channel / 1SC0 / BPSK - CP Ref Level 30.00 dBr SGL Count 100/100 91Rm AvgPwr Limit Check Offset 13.96 dB N/A Date: 30.APR.2024 22:00:39 Middle Channel / 1SC0 / BPSK - CP Middle Channel / 1SC0 / BPSK Spectrum N/A Highest Channel / 1SC0 / BPSK Highest Channel / 1SC0 / BPSK - CP N/A Date: 30.APR.2024 21:45:52

Report No.: FG3N2325I

TEL: 886-3-327-0868 Page Number : A8 of A42

Band 23 SCS 15kHz Lowest Channel / 1SC11 / BPSK Lowest Channel / 1SC11 / BPSK - CP N/A Date: 30.APR.2024 22:01:59 Middle Channel / 1SC11 / BPSK - CP Middle Channel / 1SC11 / BPSK Spectrum N/A Highest Channel / 1SC11 / BPSK Highest Channel / 1SC11 / BPSK - CP N/A

Report No.: FG3N2325I

Remark: The above results of RBW 1kHz corrected by 10log(4kHz/1kHz) is passed.

TEL: 886-3-327-0868 Page Number : A9 of A42

FAX: 886-3-327-0855

Date: 30.APR.2024 21:50:54

Band 23 SCS 15kHz Lowest Channel / 1SC0 / QPSK Lowest Channel / 1SC0 / QPSK - CP Spectrum Ref Level 30.0 SGL Count 100y 1Rm AvgPwr Limit Check -10 dBm N/A 50 dBm -60 dBm-CF 2.0001 GHz Middle Channel / 1SC0 / QPSK - CP Middle Channel / 1SC0 / QPSK Spectrum 10 dBm-N/A 50 dBm RBW Frequency Power Abs 3,000 Hz 2,00920 GHz 48,16 Gm 3,000 Hz 2,009720 GHz 49,16 Gm 3,000 Hz 2,009720 GHz 49,20 dBm 3,000 Hz 2,00990 GHz 4,40 dBm 3,000 Hz 2,01012 GHz 45,47 dBm Highest Channel / 1SC0 / QPSK Highest Channel / 1SC0 / QPSK - CP Spectrum 10 dBm-0 dBm-N/A THE DESCRIPTION OF THE DESCRIPTI Datu: 11.MAR.2024 | 6:27:93

Report No.: FG3N2325I

TEL: 886-3-327-0868 Page Number : A10 of A42

Report No.: FG3N2325I Band 23 SCS 15kHz Lowest Channel / 1SC11 / QPSK Lowest Channel / 1SC11 / QPSK - CP Spectrum Ref Level 30. SGL Count 100 1Rm AvgPwr Limit ¢heck -10 dBm N/A Middle Channel / 1SC11 / QPSK - CP Middle Channel / 1SC11 / QPSK Spectrum N/A Highest Channel / 1SC11 / QPSK Highest Channel / 1SC11 / QPSK - CP 10 dBm-N/A Frequency Power Abs 2.01927 GHz -48.34 dBn

Remark: The above results of RBW 1kHz corrected by 10log(4kHz/1kHz) is passed.

Dalu: 11.MAR.2024 | 6:29:05

FAX: 886-3-327-0855

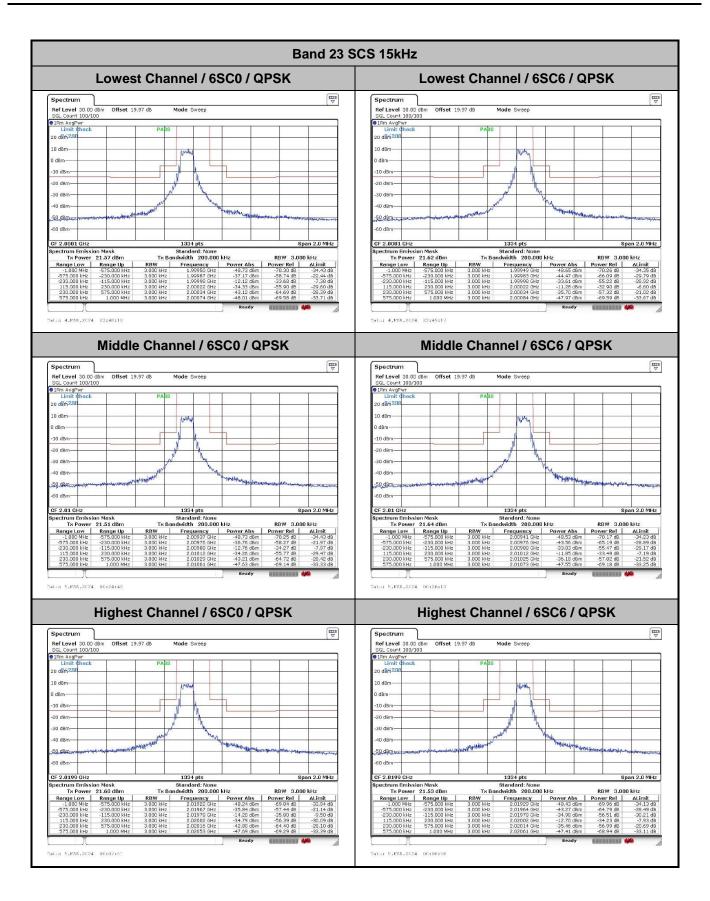
TEL: 886-3-327-0868 Page Number : A11 of A42

Band 23 SCS 15kHz Lowest Channel / 3SC0 / QPSK Lowest Channel / 3SC9 / QPSK Spectrum Spectrum Ref Level 30.00 dBr SGL Count 100/100 @ 1Rm AvgPwr Limit Check Ref Level 30. SGL Count 100 Mode Sweep Mode Sweep 1Rm AvgPwr Limit Check 20 dR620 10 dBm--10 dBm -10 dBm-20 dBn 20 dBm--30 dBm--30 dBm 40 dBm -50 dBm-50 dBm--60 dBm--60 dBm-CF 2.0001 GHz CF 2.0001 GHz 1334 pts 1334 pts 3.000 kHz 3.000 kHz 3.000 kHz -35.27 dB -30.19 dB -39.67 dB -5.25 dB -26.41 dB -34.27 dB -575.000 kHz -230.000 kHz -230.000 kHz -115.000 kHz -230.000 kHz -125.000 kHz -49.57 dBm -45.18 dBm -44.66 dBm -230,000 kHz -115,000 kHz 230.000 kHz 575.000 kHz Calo: 4.MAR.2024 23:46:00 Dato: 4.MAR.2024 23:47:07 Middle Channel / 3SC0 / QPSK Middle Channel / 3SC9 / QPSK Spectrum Spectrum Ref Level 30.00 dBm Offset 16.96 dB SGL Count 100/100 18m AvgFwr Limit check Ref Level 30.00 30.00 dBm Offset 16.96 dB 100/100 ● 1Rm AvgPwr Limit Check 10 dBm-10 dBm-0 dBm--10 dBr -10 dBm -20 dBm -20 dBm-30 dBm 30 dBm 40 dBm-40 dBm-50 dBm -50 dBm-60 dBm--60 dBm-CF 2.01 G | Example | Proceedings | Procede | Proceedings | Proceedings | Proceedings | Proceedings | Procede | Procede | Procede | Procede | Procede | Proceedings | Procede | Proc Standard: None Tx Bandwidth 200.000 kHz RBW 3.000 kHz Tribumber | Tribu Frequency Power Abs 2.00941 GHz -49.52 dBm RBW 3.000 kHz Highest Channel / 3SC0 / QPSK Highest Channel / 3SC9 / QPSK Spectrum Spectrum Ref Level 30.00 dBm Offset 16.96 dB SGL Count 100/100

Firm AvgPwr
Limit check Ref Level 30.0D dBm Offset 16.96 dB SGL Count 100/10D 20 dBm<sup>2</sup> 20 dBm<sup>21</sup> 10 dBm-10 dBm-0 dBm-0 dBm--10 dBm on dam-30 dBm 30 dBm-40 dBm 40 dBm 50 dBm-CF 2.0199 Standard: None Tx Bandwidth 200.000 kHz Standard: None Tx Bandwidth 200.000 kHz RBW 3.000 kHz RBW 3,000 kHz | The state of the Datu: 9.MAR.2024 00:04:29 Calu: 9.MAR.2024 00:05:28

Report No.: FG3N2325I

TEL: 886-3-327-0868 Page Number : A12 of A42



Report No.: FG3N2325I

TEL: 886-3-327-0868 Page Number : A13 of A42

Band 23 SCS 15kHz Lowest Channel / 12SC0 / QPSK N/A Spectrum Ref Level 30.0 SGL Count 100/ Offset 22,98 dB Mode Sweep 1Rm AvgPwr Limit Check propertylan -10 dBm -30 dBm | 1334 pts | Standard: None | Tx Bondwidth 200,000 kHz | W | Frequency | Power Abs | D0 kHz | 1,99943 GHz | 46,57 Gbm | O0 kHz | 1,99943 GHz | -1,167 Gbm | -1,17 CF 2.0001 GHz RBW 3.4UV kriz Power Rel ALimit n -67.40 db -32.27 dB n -51.96 db -15.66 dB n -30.49 db -12.19 dB n -36.91 db -10.61 dB m -51.73 db -15.43 dB n -65.66 db -30.53 dB RBW 3.000 kHz 3.000 kHz 3.000 kHz Datu: 4.MAR.2024 23:50:23 Middle Channel / 12SC0 / QPSK N/A Spectrum Ref Level 30.00 dBm Offset 22.98 dB SGL Count 100/100 Mode Sweep e 18m AvgPwr Limit Check 10 dBmproperty -10 dBn | Example | Exam 
 TRB workship with 20,000 bits
 FRRW Frequency Power Abs
 Frequency All Minit

 3,000 bits
 2,00094 bits
 45,74 dim
 -57,61 dis
 -32,44 dis

 3,000 bits
 2,00095 bits
 -30,09 dim
 -51,82 dis
 -15,52 dis

 3,000 bits
 2,00096 bits
 1,59,90 dim
 -37,97 dis
 -11,57 dis

 3,000 bits
 2,01012 bits
 1,00,90 dim
 -53,97 dis
 -15,22 dis

 3,000 bits
 2,01012 bits
 -30,55 dim
 -51,52 dis
 -15,22 dis

 3,000 bits
 2,01012 bits
 -30,55 dim
 -51,52 dis
 -15,22 dis

 3,000 bits
 2,01012 bits
 -30,55 dim
 -51,52 dis
 -51,52 dis

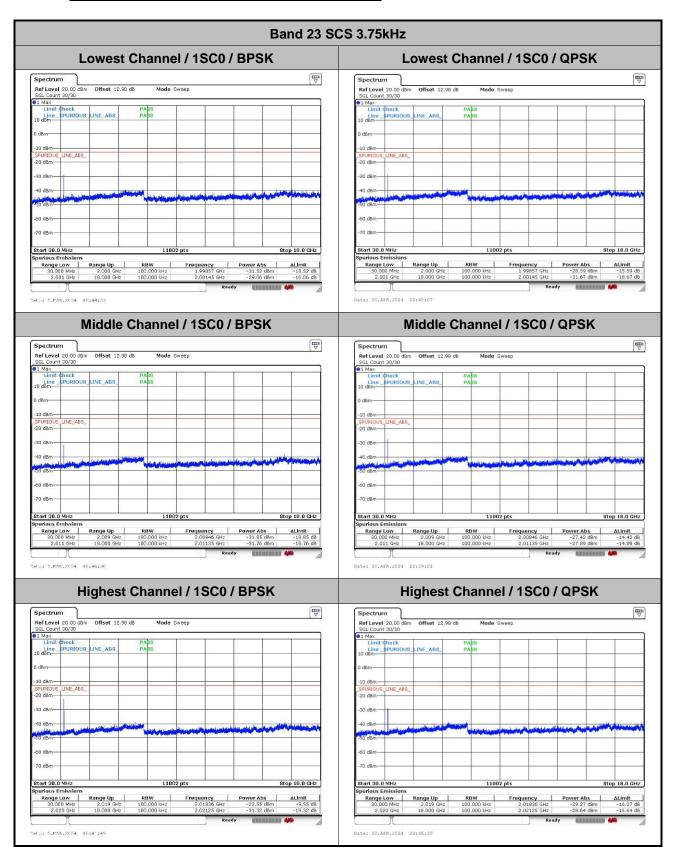
 3,000 bits
 2,01012 bits
 -30,55 dis
 -51,52 dis
 -51,52 dis

 3,000 bits
 2,0105 bits
 -30,55 dis
 -51,52 dis
 -51,52 dis
 Highest Channel / 12SC0 / QPSK N/A 20 dBm<sup>2</sup> 10 dBm-0 dBm-وإدراليومالاروا Standard: None Tx Bandwidth 200.000 kHz RBW 3.000 kHz Datu: 9.MAR.2024 00:01:21

Report No.: FG3N2325I

TEL: 886-3-327-0868 Page Number : A14 of A42

# **Conducted Spurious Emission**



Report No.: FG3N2325I

TEL: 886-3-327-0868 Page Number : A15 of A42 FAX: 886-3-327-0855

Band 23 SCS 15kHz Lowest Channel / 1SC0 / BPSK Lowest Channel / 1SC0 / QPSK **₩** Ref Level 20.00 dBm Offset 12.98 dB Mode Sweep SGL Count 30/30 1 Max Limit ¢heck Line SPURIOUS LINE\_ABS\_ Line SPURIOUS LINE ABS 0 dBm-LINE\_ABS\_ \_LINE\_ABS\_ -30 dBm-40 dBm--70 dBm-Start 30.0 MHz Spurious Emissions Start 30.0 MHz Date: 30.APR.2024 22:44:08 Middle Channel / 1SC0 / BPSK Middle Channel / 1SC0 / QPSK Spectrum

Ref Level 20.00 dBm Offset 12.98 dB
SGL Count 30/30 Spectrum Spectrum Ref Level 20.00 dBm Offset 12.98 dB SGL Count 30/30 Mode Sweep SGL Count 30/30

1 Max
Limit Check
Line\_SPURIOUS\_LINE\_ABS
10 dBm-●1 Max Limit Check Line \_SPURIOUS\_LINE\_ABS\_ 0 dBm-SPURIOUS\_LINE\_ABS\_ -20 dBm OUS\_LINE\_ABS\_ 40 dBm--60 dBm-| Start 30.0 MHz | Spurious Emissions | Range Low | Range Up | 30.000 MHz | 2.009 GHz | 2.011 GHz | 18.000 GHz | Stop 18.0 GHz Stop 18.0 GHz Highest Channel / 1SC0 / BPSK Highest Channel / 1SC0 / QPSK spectrum

Ref Lavel 20.00 dbm Offset 12.98 db
SGL Count 30/39 dbm
1 Mst
Limit Linet Limit peck
10 dbm—
10 dbm— Spectrum
Ref Level 20.00 dBm Offset 12.96 dB
SGL Count 30/30

1 Max
Limit chack
Line SPURIOUS LINE ABS
10 dBm Line SPURIOUS LINE ABS 0 dBm-LINE\_ABS\_ -20 dBm-60 dBm-70 dBm-| Range Low | Range Up | RBW | Frequency | Power Abs | ALImit | Range Low | Range Up | RBW | Frequency | Power Abs | ALImit | Range Low | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up | RBW | Frequency | Power Abs | ALImit | Range Up 
 purious Emissions

 Range Low
 Range Up
 RBW
 Frequency
 Power Abs
 ALImit

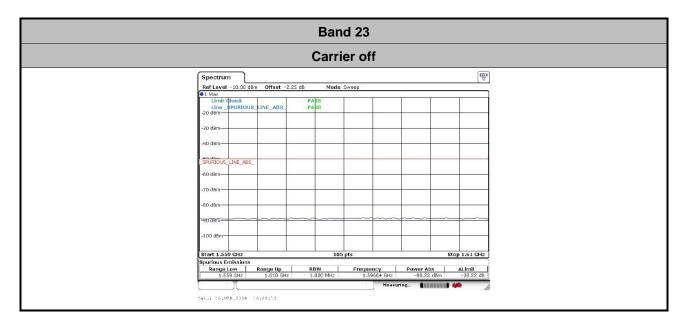
 30.000 MHz
 2.019 GHz
 100.000 kHz
 2.01936 GHz
 -30.27 dBm
 -17.27 dB

 2.020 GHz
 18.000 GHz
 100.000 kHz
 2.02125 GHz
 -28.18 dBm
 -15.18 dB
 Date: 30.APR.2024 22:47:25 Datu: 22.MAR.2024 17:09:94

Report No.: FG3N2325I

# Emission limits for protection of aeronautical service

Report No. : FG3N2325I



TEL: 886-3-327-0868 Page Number : A17 of A42

Band 23 SCS 3.75kHz **BPSK** Lowest Channel / 1SC0 Carrier on **Lowest Channel / 1SC0 Discrete** Spectrum \vec{\vec{\vec{v}}} Middle Channel / 1SC0 Discrete Middle Channel / 1SC0 Carrier on Ref Level 0.00 dBn Ref Level 0.00 dBm SPURIOUS\_LINE\_ABS\_ -60 dBm-Highest Channel / 1SC0 Carrier on **Highest Channel / 1SC0 Discrete** SPURIOUS LINE ABS Datu: 6.MAR.2024 21:00:46

Report No.: FG3N2325I

TEL: 886-3-327-0868 Page Number : A18 of A42 FAX: 886-3-327-0855

Band 23 SCS 3.75kHz **QPSK** Lowest Channel / 1SC0 Carrier on Lowest Channel / 1SC0 Discrete Ref Level 0.00 dBm Offset 8.2

1 Max
Linit theck
Line SPURIOUS LINE ABS Spectrum | Note | 1.550 of | 1. Date: 1.MAY.2024 01:28:13 Middle Channel / 1SC0 Carrier on Middle Channel / 1SC0 Discrete **□** Ref Level 0.00 dBm Offset 8.28 dB Mode Sweep -40 dBm--60 dBm-60 dBm-Hoderson bildeland 80 dBm- 
 purious Emissions
 Range Low
 Range Up
 RBW
 Frequency
 Power Abs
 ALlimit

 1.559 61z
 1.610 GHz
 1.000 MHz
 1.59202 GHz
 -56.86 dbm
 -16.86

 Range Low
 Range Up
 RBW
 Frequency
 Power Abs
 ALimit

 1.559 GHz
 1.610 GHz
 30.000 kHz
 1.55381 GHz
 -63.64 dBm
 -13.64 dB
 Highest Channel / 1SC0 Carrier on **Highest Channel / 1SC0 Discrete □** Spectrum -40 dBm-LINE\_ABS\_ 
 Spurfous Emissions

 Renge Ly
 RBW
 Frequency
 Power Abs
 ALimit

 1.559 GHz
 1.610 GHz
 1.000 MHz
 1.56073 GHz
 -57.07 dBm
 -17.07
 Date: 30.APR.2024 22:52:34 Date: 1.MAY.2024 01:27:07

Report No.: FG3N2325I

TEL: 886-3-327-0868 Page Number : A19 of A42 FAX: 886-3-327-0855

Band 23 SCS 15kHz **BPSK** Lowest Channel / 1SC0 Carrier on Lowest Channel / 1SC0 Discrete Ref Level 0.00 dBm Offset 8.2

1 Max
Linit check
Line SPURIOUS LINE ABS
10 dBm Spectrum | Note | 1.550 of | 1. Date: 1.MAY.2024 01:27:49 Middle Channel / 1SC0 Carrier on Middle Channel / 1SC0 Discrete Ref Level 0.00 dBm Offset 8.28 dB

1 Max
Limit check
Line \_spurious\_LINE\_ABS

10 dBm Ref Level 0.00 dBm Offset 8.28 dB -40 dBm--60 dBm-60 dBm-70 dBm 80 dBm- 
 purious Emissions
 Range Low
 Range Up
 RBW
 Frequency
 Power Abs
 ALlimit

 1.559 6tz
 1.610 GHz
 1.000 MHz
 1.57806 GHz
 -56.76 dBm
 -16.76
 Highest Channel / 1SC0 Carrier on **Highest Channel / 1SC0 Discrete □** Spectrum -40 dBm LINE\_ABS\_ SHARRY! Range Low Ronge Up RBW Frequency Power Abs ALimit
1.559 Ote 1.010 GHz 1.000 MHz 1.55123 GHz -55.83 dBm -16.81 Date: 30.APR.2024 22:51:56 Date: 1.MAY.2024 01:26:23

Report No.: FG3N2325I

TEL: 886-3-327-0868 Page Number : A20 of A42 FAX: 886-3-327-0855