



Report No. : FG461108

FCC RADIO TEST REPORT

FCC ID : N7NHL78A

Equipment : Radio Module

Brand Name : AirPrime Model Name : HL7810

Applicant : Sierra Wireless, ULC

13811 Wireless Way, Richmond, BC V6V 3A4 Canada

Manufacturer : Sierra Wireless, ULC

13811 Wireless Way, Richmond, BC V6V 3A4 Canada

Standard : FCC 47 CFR Part 2, and 25

The product was received on Jun. 11, 2024 and testing was performed from Jun. 20, 2024 to Jan. 03, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures 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.

Approved by: Louis Wu

Lunis Wu

Sporton International Inc. Wensan Laboratory

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

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Appendix A. Test Results of Conducted Test

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History of this test report

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Report No.	Version	Description	Issue Date
FG461108	01	Initial issue of report	Jan. 13, 2025

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Summary of Test Result

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Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046(a)	RF Output Power	40dBW(max)	PASS	-
3.1	§25.204(a)	NF Output Fower	400BW(max)	FA00	
3.2	§2.1055	Frequency Stability	within 0.001 percent of the	PASS	
3.2	§25.202(d)	Frequency Stability	reference frequency.	PASS	-
3.3	§2.1049	Occupied Bandwidth	-	PASS	-
3.4	§2.1051	Conducted Emissions Mask	§25.202(f)	PASS	-
	§25.202(f)		0 ()		
3.5	§2.1051	Conducted Spurious	§25.202(f)	Pass	-
0.0	§25.202(f)	Emission	320.202(1)	1 400	
3.6	§2.1053	Field Strength of Spurious	\$25 202/f)	PASS	
3.0	§25.202(f)	Radiation	§25.202(f)	PASS	-
		Additional Limits on		PASS	
3.7	§25.216(c)(e)(h)(i)	Emissions from Mobile Earth	§25.216(c)(e)(h)(i)		-
		Station			

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: Steve Chen Report Producer: Ming Chen

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1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature					
General Specs					
LTE and NTN					
Antenna Type WWAN: Fixed External Ante NTN: Fixed External Antenn					
Antenna Gain	NTN Band 23: 8.5 dBi				
Antenna Gain	NTN Band 255: 8.5 dBi				

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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.

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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.			
rest site No.	TH05-HY	03CH16-HY		
Test Engineer	Alston Tsai	Jack Cheng, Tim Lee and Wilson Wu		
Temperature (°C)	23.5~24.7	20~25		
Relative Humidity (%)	50.1~53.2 50~60			

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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
- 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.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

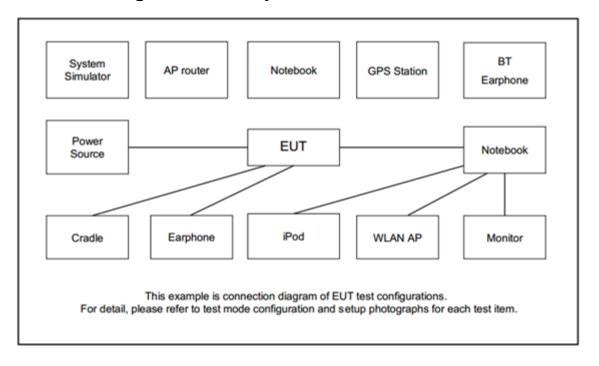
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in two degree (Degree 0 or Degree 90), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

Support band and evaluated information				
Supported band	B23, B255			
Evaluated and Tested band	B23, B255			

2.2 Connection Diagram of Test System



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2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	Fixture	Sierra Wireless	HL DevKit	N/A	N/A	N/A

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2.4 Measurement Results Explanation Example

For all conducted test items:

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

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)

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2.5 Frequency List of Low/Middle/High Channels

Band 23 Channel and Frequency List						
Channel/Frequency(MHz)	Lowest	Middle	Highest			
Channel	25501	25600	25699			
Frequency	2000.1	2010	2019.9			

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Band 255 Channel and Frequency List							
Channel/Frequency(MHz)	Lowest	Middle	Highest				
Channel	261505	261674	261843				
Frequency	1626.6	1643.5	1660.4				

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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:

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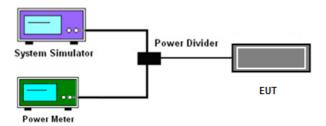
- + 40 dBW in any 4 kHz band for θ ≤0°
- $+40 + 3\theta$ dBW in any 4 kHz band for $0^{\circ} < \theta \le 5^{\circ}$

Where θ 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.

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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.

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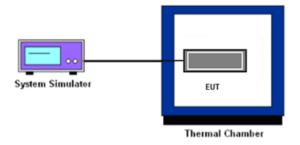
3.2.2 Test Procedures for Temperature Variation

- 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.
- 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.

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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.

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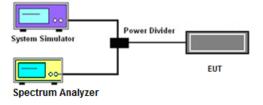
3.3.2 Measuring Instruments

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.

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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:

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- (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

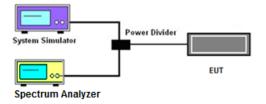
The measuring equipment is listed in the section 4 of this test report.

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)

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3.4.4 Test Setup



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3.4.5 Test Result

Please refer to Appendix A.

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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:

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(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

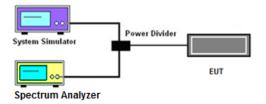
The measuring equipment is listed in the section 4 of this test report.

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)

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3.5.4 Test Setup



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3.5.5 Test Result

Please refer to Appendix A.

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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:

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(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.

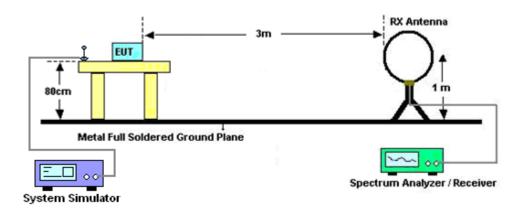
3.6.3 Test Procedures

- 1. The testing follows ANSI C63.26-2015.
- 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.
- 8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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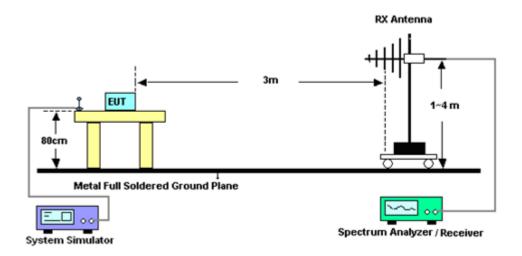
3.6.4 Test Setup

For radiated emissions from 10KHz to 30MHz.



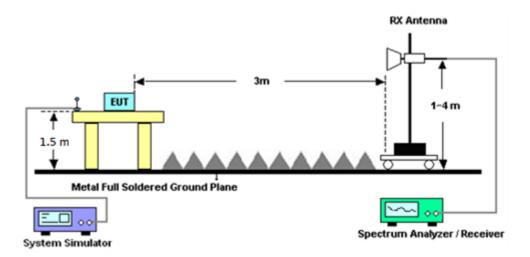
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For radiated emissions from 30MHz to 1GHz



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For radiated emissions above 1GHz



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3.6.5 Test Results

Please refer to Appendix B.

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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.

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.

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(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.

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(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.

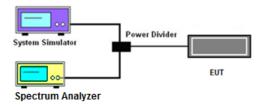
For Radiated test:

- 1. The testing follows ANSI C63.26-2015.
- 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.
- 6. 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.

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3.7.4 Test Setup

For conducted test



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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.

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4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration	Test Date	Due Date	Remark
mstrument		Wiodel No.	Serial No.	Cilaracteristics	Date		Due Date	
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 23, 2024	Dec. 27, 2024~ Dec. 28, 2024	Feb. 22, 2025	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 27, 2024	Dec. 27, 2024~ Dec. 28, 2024	Nov. 26, 2025	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Jul. 11, 2024	Dec. 27, 2024~ Dec. 28, 2024	Jul. 10, 2025	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18G-5 6-01-A70	EC1900269	1GHz-18GHz	Dec. 19, 2024	Dec. 27, 2024~ Dec. 28, 2024	Dec. 18, 2025	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Aug. 09, 2024	Dec. 27, 2024~ Dec. 28, 2024	Aug. 08, 2025	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	Sep. 09, 2024	Dec. 27, 2024~ Dec. 28, 2024	Sep. 08, 2025	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1223	18GHz-40GHz	Jun. 24, 2024	Dec. 27, 2024~ Dec. 28, 2024	Jun. 23, 2025	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 02, 2024	Dec. 27, 2024~ Dec. 28, 2024	Dec. 01, 2025	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-2700-30 00-18000-60ST	SN2	3GHz High Pass Filter	Mar. 13, 2024	Dec. 27, 2024~ Dec. 28, 2024	Mar. 12, 2025	Radiation (03CH12-HY)
Notch Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass Filter	Mar. 13, 2024	Dec. 27, 2024~ Dec. 28, 2024	Mar. 12, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 06, 2024	Dec. 27, 2024~ Dec. 28, 2024	Mar. 05, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 19, 2024	Dec. 27, 2024~ Dec. 28, 2024	Dec. 18, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803955/2	30MHz~40GHz	Nov. 01, 2024	Dec. 27, 2024~ Dec. 28, 2024	Oct. 31, 2025	Radiation (03CH12-HY)
RF Cable	EMCI	EMC101Y-KM-KM -100	240907	30MHz~40GHz	Nov. 14, 2024	Dec. 27, 2024~ Dec. 28, 2024	Dec. 13, 2025	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210090	N/A	Aug. 29, 2024	Dec. 27, 2024~ Dec. 28, 2024	Aug. 28, 2025	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Dec. 27, 2024~ Dec. 28, 2024	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Dec. 27, 2024~ Dec. 28, 2024	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Dec. 27, 2024~ Dec. 28, 2024	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Dec. 27, 2024~ Dec. 28, 2024	N/A	Radiation (03CH12-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101907	10Hz - 40GHz	Aug. 15, 2023	Jun. 20, 2024~ Aug. 13, 2024	Aug. 14, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101907	10Hz - 40GHz	Aug. 21, 2024	Aug. 21, 2024~ Jan. 03, 2025	Aug. 20, 2025	Conducted (TH05-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6272278356	LTE FDD/TDD DLCA/ULCA	Aug. 24, 2023	Jun. 20, 2024~ Aug. 19, 2024	Aug. 23, 2024	Conducted (TH05-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6272278356	LTE FDD/TDD DLCA/ULCA	Aug. 19, 2024	Aug. 19, 2024~ Jan. 03, 2025	Aug. 18, 2025	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GET861546	0V~64V ; 0A~6A	Jun. 05, 2024	Jun. 20, 2024~ Jan. 03, 2025	Jun. 04, 2025	Conducted (TH05-HY)
Temperature & Humidity Cabinet Chamber	ESPEC	LHU-113	1012005860	-20°C~85°C	Dec. 13, 2023	Jun. 20, 2024~ Dec. 10, 2024	Dec. 12, 2024	Conducted (TH05-HY)
Temperature & Humidity Cabinet Chamber	ESPEC	LHU-113	1012005860	-20°C~85°C	Dec. 10, 2024	Dec. 10, 2024~ Jan. 03, 2025	Dec. 09, 2025	Conducted (TH05-HY)
Coupler	MVE	MVE4816	A400014	0.5~18GHz	Mar. 12, 2024	Jun. 20, 2024~ Jan. 03, 2025	Mar. 11, 2025	Conducted (TH05-HY)

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5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of	6.30 dB
Confidence of 95% (U = 2Uc(y))	6.30 dB

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<u>Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)</u>

Measuring Uncertainty for a Level of	4.70 dB
Confidence of 95% (U = 2Uc(y))	

<u>Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)</u>

Measuring Uncertainty for a Level of	5.00 dB
Confidence of 95% (U = 2Uc(y))	5.00 dB

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

Measuring Uncertainty for a Level of	5.10 dB
Confidence of 95% (U = 2Uc(y))	0.10 dB

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Appendix A. Test Results of Conducted Test

Band 23

Conducted Output Power (Average power) and EIRP

Band 23 SCS 3.75kHz								
Test Frequency (MHz)	SC Size	Conducted Power (dBm)		Antenna Gain (dBi)	EIRP Power (dBm)		Result	
		BPSK	QPSK	, ,	BPSK	QPSK		
2000.1	1SC0	24.49	24.50	8.50	32.99	33.00		
2000.1	1SC47	24.48	24.46	8.50	32.98	32.96		
2010	1SC0	24.43	24.46	8.50	32.93	32.96	PASS	
2010	1SC47	24.41	24.44	8.50	32.91	32.94	PASS	
2019.9	1SC0	24.38	24.42	8.50	32.88	32.92		
	1SC47	24.40	24.46	8.50	32.90	32.96		

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	Band 23 SCS 15kHz							
Test Frequency (MHz)	SC Size	Conducted Power (dBm)		Antenna Gain (dBi)	EIRP Power (dBm)		Result	
	4000	BPSK	QPSK	0.50	BPSK	QPSK		
	1SC0	24.26	23.74	8.50	32.76	32.24		
	1SC11	24.19	24.13	8.50	32.69	32.63		
	3SC0		23.67	8.50	-	32.17		
2000.1	3SC9		23.56	8.50	-	32.06		
	6SC0		22.94	8.50	-	31.44		
	6SC6	-	23.16	8.50	-	31.66		
	12SC0	-	22.18	8.50	-	30.68		
	1SC0	24.12	24.14	8.50	32.62	32.64		
	1SC11	24.16	24.11	8.50	32.66	32.61		
	3SC0	-	23.46	8.50	-	31.96		
2010	3SC9	-	23.52	8.50	-	32.02	PASS	
	6SC0	-	22.94	8.50	-	31.44		
	6SC6	-	23.03	8.50	-	31.53		
	12SC0	-	22.02	8.50	-	30.52		
	1SC0	24.20	24.16	8.50	32.70	32.66		
	1SC11	24.28	24.14	8.50	32.78	32.64		
	3SC0	-	23.44	8.50	-	31.94		
2019.9	3SC9	-	23.33	8.50	-	31.83		
	6SC0	-	22.89	8.50	-	31.39		
	6SC6	-	23.13	8.50	-	31.63		
	12SC0	-	22.09	8.50	-	30.59		

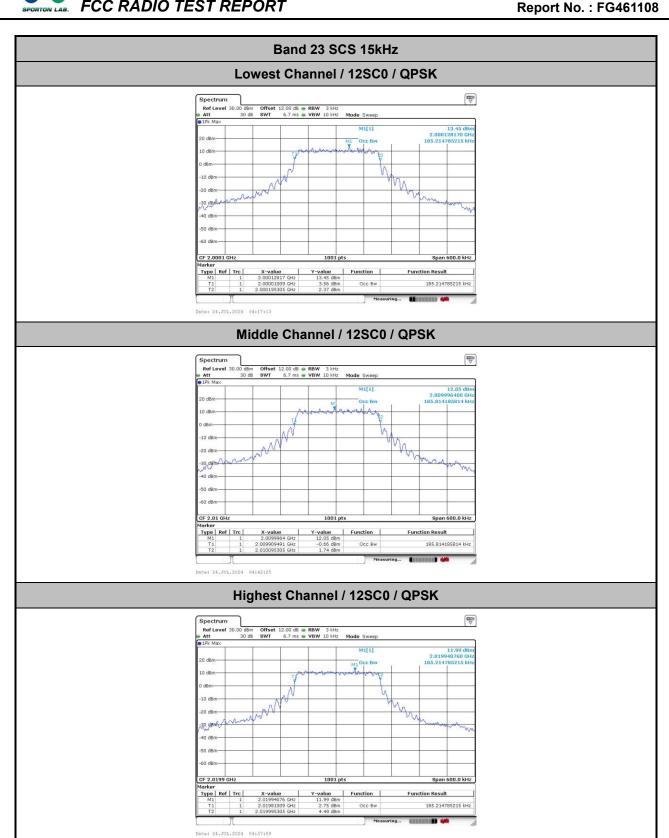
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Occupied Bandwidth

Mode	Band 23 : 99%OBW(kHz)
scs	15kHz
Mod.	QPSK
SC Size	12SC0
Lowest CH	185.215
Middle CH	185.814
Highest CH	185.215

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Conducted Emissions Mask

	B23 L CH 2000.1 MHz										
SCS (kHz)	Modulation	SC config	Measured Value (dBm / 3 kHz)	Measured Value (dBm / 4 kHz)	Verified Value (dBm / 4 kHz)	Limit (dBm / 4 kHz)	Δlimit (dB)	Result			
3.75	BPSK	1SC0	-13.84	-12.59	-	-2.36	-10.23	Pass			
3.75	BPSK	1SC47	-7.92	-6.67	-	-2.64	-4.03	Pass			
3.75	QPSK	1SC0	-13.74	-12.49	-	-1.97	-10.52	Pass			
3.75	QPSK	1SC47	-9.29	-8.04	-	-3.91	-4.13	Pass			
15	BPSK	1SC0	-6.41	-5.16	-	-2.46	-2.70	Pass			
15	BPSK	1SC11	-4.53	-3.28	-	-2.73	-0.55	Pass			
15	QPSK	1SC0	-6.77	-5.52	-	-2.61	-2.91	Pass			
15	QPSK	1SC11	-4.31	-3.06	-	-2.48	-0.58	Pass			
15	QPSK	3SC0	-11.50	-10.25	-	-2.74	-7.51	Pass			
15	QPSK	3SC9	-5.74	-4.49	-	-3.03	-1.46	Pass			
15	QPSK	6SC0	-14.58	-13.33	-	-4.07	-9.26	Pass			
15	QPSK	6SC6	-9.04	-7.79	-	-4.04	-3.75	Pass			
15	QPSK	12SC0	-15.03	-13.78	-	-5.15	-8.63	Pass			

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	B23 M CH 2010 MHz										
SCS (kHz)	Modulation	SC config	Measured Value (dBm / 3 kHz)	Measured Value (dBm / 4 kHz)	Verified Value (dBm / 4 kHz)	Limit (dBm / 4 kHz)	Δlimit (dB)	Result			
3.75	BPSK	1SC0	-13.03	-11.78	-	-4.33	-7.45	Pass			
3.75	BPSK	1SC47	-7.87	-6.62	-	-2.07	-4.55	Pass			
3.75	QPSK	1SC0	-12.18	-10.93	-	-3.82	-7.11	Pass			
3.75	QPSK	1SC47	-8.47	-7.22	-	-2.59	-4.63	Pass			
15	BPSK	1SC0	-6.12	-4.87	-	-2.91	-1.96	Pass			
15	BPSK	1SC11	-5.83	-4.58	-	-3.68	-0.90	Pass			
15	QPSK	1SC0	-4.04	-2.79	-	-1.79	-1.00	Pass			
15	QPSK	1SC11	-4.90	-3.65	-	-2.91	-0.74	Pass			
15	QPSK	3SC0	-8.32	-7.07	-	-3.15	-3.92	Pass			
15	QPSK	3SC9	-6.37	-5.12	-	-3.11	-2.01	Pass			
15	QPSK	6SC0	-11.68	-10.43	-	-4.02	-6.41	Pass			
15	QPSK	6SC6	-9.86	-8.61	-	-4.17	-4.44	Pass			
15	QPSK	12SC0	-14.52	-13.27	-	-5.44	-7.83	Pass			

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	B23 H CH 2019.9 MHz										
SCS (kHz)	Modulation	SC config	Measured Value (dBm / 3 kHz)	Measured Value (dBm / 4 kHz)	Verified Value (dBm / 4 kHz)	Limit (dBm / 4 kHz)	Δlimit (dB)	Result			
3.75	BPSK	1SC0	-11.92	-10.67	-	-3.90	-6.77	Pass			
3.75	BPSK	1SC47	-13.79	-12.54	-	-3.89	-8.65	Pass			
3.75	QPSK	1SC0	-11.98	-10.73	-	-3.95	-6.78	Pass			
3.75	QPSK	1SC47	-13.51	-12.26	-	-3.67	-8.59	Pass			
15	BPSK	1SC0	-5.19	-3.94	-	-2.99	-0.95	Pass			
15	BPSK	1SC11	-6.49	-5.24	-	-3.56	-1.68	Pass			
15	QPSK	1SC0	-5.19	-3.94	-	-2.61	-1.33	Pass			
15	QPSK	1SC11	-6.74	-5.49	-	-3.53	-1.96	Pass			
15	QPSK	3SC0	-7.68	-6.43	-	-3.91	-2.52	Pass			
15	QPSK	3SC9	-10.27	-9.02	-	-2.67	-6.35	Pass			
15	QPSK	6SC0	-12.53	-11.28	-	-5.2	-6.08	Pass			
15	QPSK	6SC6	-13.02	-11.77	-	-4.03	-7.74	Pass			
15	QPSK	12SC0	-18.31	-17.06	-	-4.86	-12.2	Pass			

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Remark: The above results of RBW 3kHz should be added a factor of 10log(4kHz/3kHz) = 1.25dB.

If the result of the Mask method with factor fails, then the Channel Power method will be used.

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Band 23 SCS 3.75kHz Lowest Channel / 1SC0 / BPSK - CP Lowest Channel / 1SC0 / BPSK Spectrum 20 d8m2 10 dBm--10 dBm -20 dBm--30 dBm 40 dBm N/A -50 dBm-Standard: None Tx Bandwidth 230.000 kHz Middle Channel / 1SC0 / BPSK - CP Middle Channel / 1SC0 / BPSK Ref Level 30.00 dBm SGL Count 100/100 • 1Rm AvgPwr Limit ¢heck -10 dBm--30 dBm 40 dBm N/A 1334 pts

Standard: None
andwidth 230.000 kHz

Frequency Power
2.00942 GHz -544. Highest Channel / 1SC0 / BPSK - CP Highest Channel / 1SC0 / BPSK Spectrum Ref Level 30.00 dBr SGL Count 100/100 •1Rm AvgPwr Limit check 20 dBm 200 10 dBm-N/A

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FAX: 886-3-327-0855

Date: 23.JUL.2024 10:00:19

Band 23 SCS 3.75kHz Lowest Channel / 1SC47 / BPSK-CP Lowest Channel / 1SC47 / BPSK Spectrum 20 d8m2 -10 dBm -20 dBm--30 dBm 40 dBm N/A -50 dBm Standard: None Tx Bandwidth 230.000 kHz Middle Channel / 1SC47 / BPSK-CP Middle Channel / 1SC47 / BPSK Ref Level 30.00 dBr SGL Count 100/100 •1Rm AvgPwr Limit ¢heck -10 dBm -30 dBm 40 dBm N/A -60 dBm-1334 pts

Standard: None
andwidth 230,000 kHz

Frequency Power Abs
2,00942 GHz -55,74 dBn
20077 GHz -48,35 dBn
20077 GHz -49,36 dBn Highest Channel / 1SC47 / BPSK Highest Channel / 1SC47 / BPSK-CP Spectrum Ref Level 30 20 dBm20 10 dBm-N/A

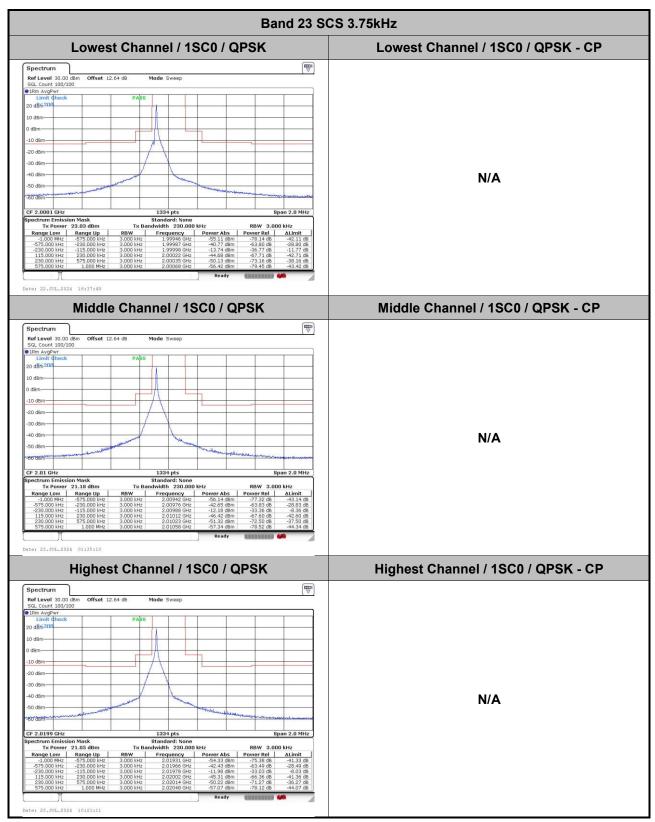
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FAX: 886-3-327-0855

Date: 23.JUL.2024 10:13:54

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Band 23 SCS 3.75kHz Lowest Channel / 1SC47 / QPSK-CP Lowest Channel / 1SC47 / QPSK Spectrum 20 d8m2 -10 dBm -20 dBm--30 dBm N/A -50 dBm-Standard: None Tx Bandwidth 230.000 kHz Middle Channel / 1SC47 / QPSK Middle Channel / 1SC47 / QPSK-CP Ref Level 30.00 d8 SGL Count 100/100 -10 dBm--30 dBm 40 dBm N/A 1334 pts

Standard: None
andwidth 230.000 kHz

Frequency Power Abs
2.00939 GHz -55.57 dBr
2.00977 GHz -49.05 dBr
-2.04 dBr Highest Channel / 1SC47 / QPSK Highest Channel / 1SC47 / QPSK-CP Spectrum Ref Level 30 20 dBm20 N/A

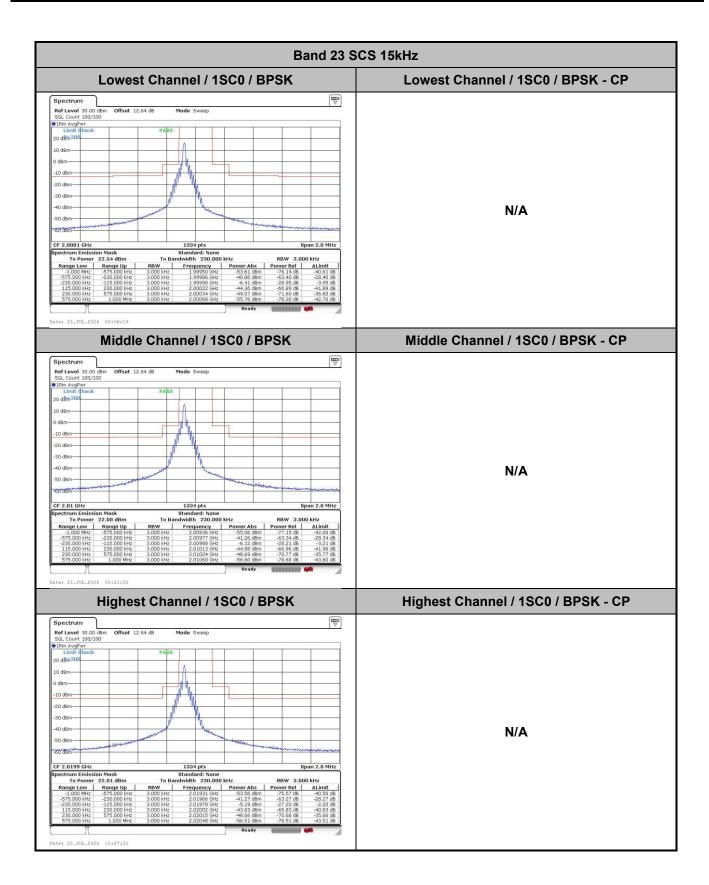
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FAX: 886-3-327-0855

Date: 23.JUL.2024 10:24:24

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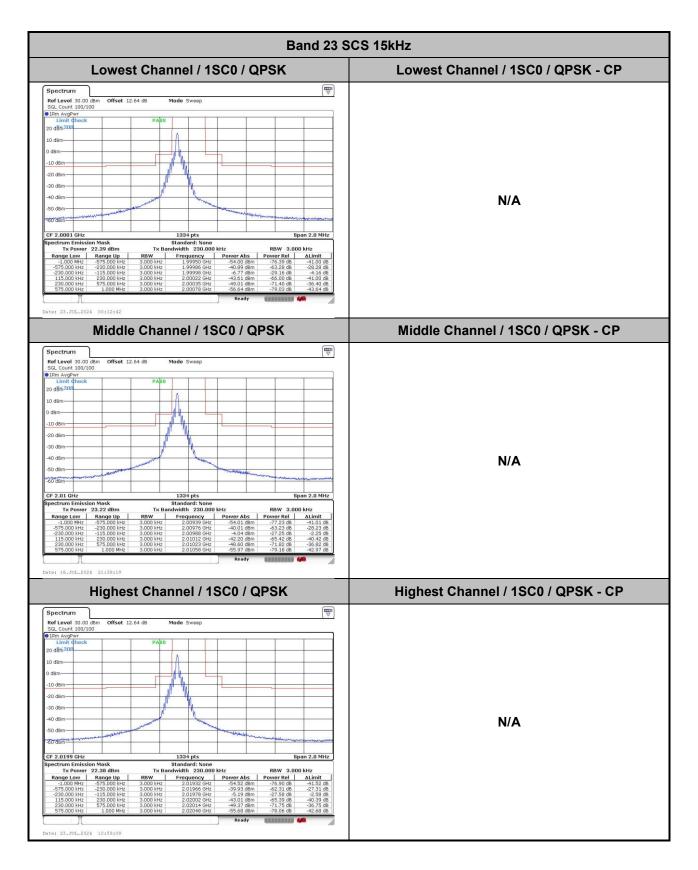
Band 23 SCS 15kHz Lowest Channel / 1SC11 / BPSK Lowest Channel / 1SC11 / BPSK-CP 20 dBm 21 10 dBm--10 dBm-N/A Middle Channel / 1SC11 / BPSK - CP Middle Channel / 1SC11 / BPSK Spectrum 10 dBm--10 dBm -20 dBm--30 dBm--40 dBm N/A 50 dBm-1334 pts Standard: None Tx Bandwidth 230,000 kHz Frequency Highest Channel / 1SC11 / BPSK Highest Channel / 1SC11 / BPSK-CP Spectrum

Ref Level 30.00 dBm Offset 12.64 dB -10 dBm-N/A

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FCC RADIO TEST REPORT Report No. : FG461108



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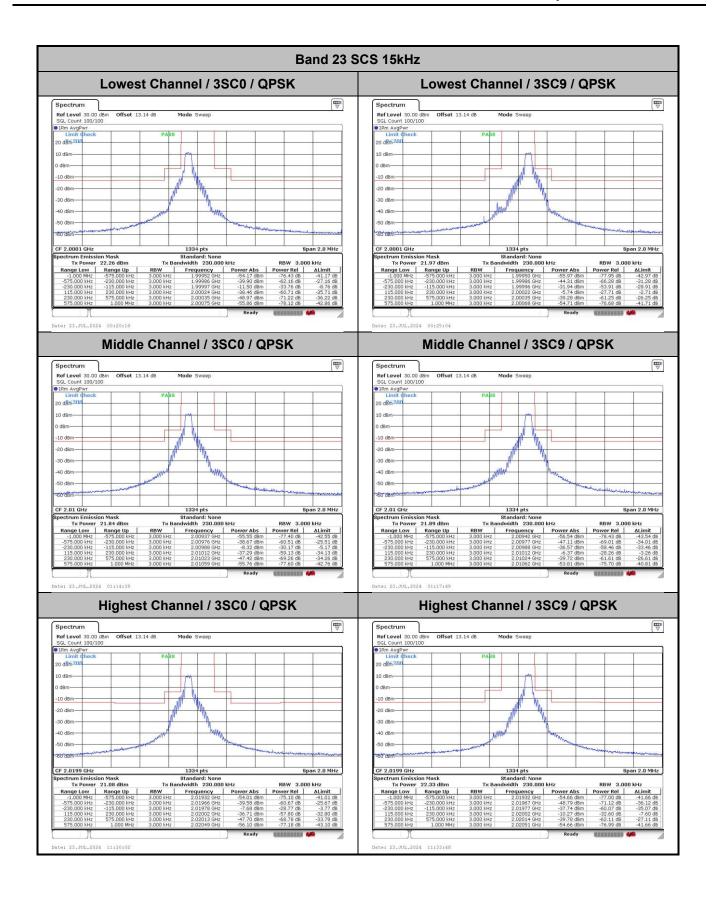
Band 23 SCS 15kHz Lowest Channel / 1SC11 / QPSK Lowest Channel / 1SC11 / QPSK - CP 20 dBm 21 10 dBm--10 dBm-N/A Middle Channel / 1SC11 / QPSK - CP Middle Channel / 1SC11 / QPSK Spectrum 10 dBm--10 dBm -20 dBm--30 dBm--40 dBm N/A 50 dBm-1334 pts Standard: None Tx Bandwidth 230,000 kHz Frequency 2,00929 GH Highest Channel / 1SC11 / QPSK Highest Channel / 1SC11 / QPSK - CP Spectrum

Ref Level 30.00 dBm Offset 12.64 dB -10 dBm-N/A

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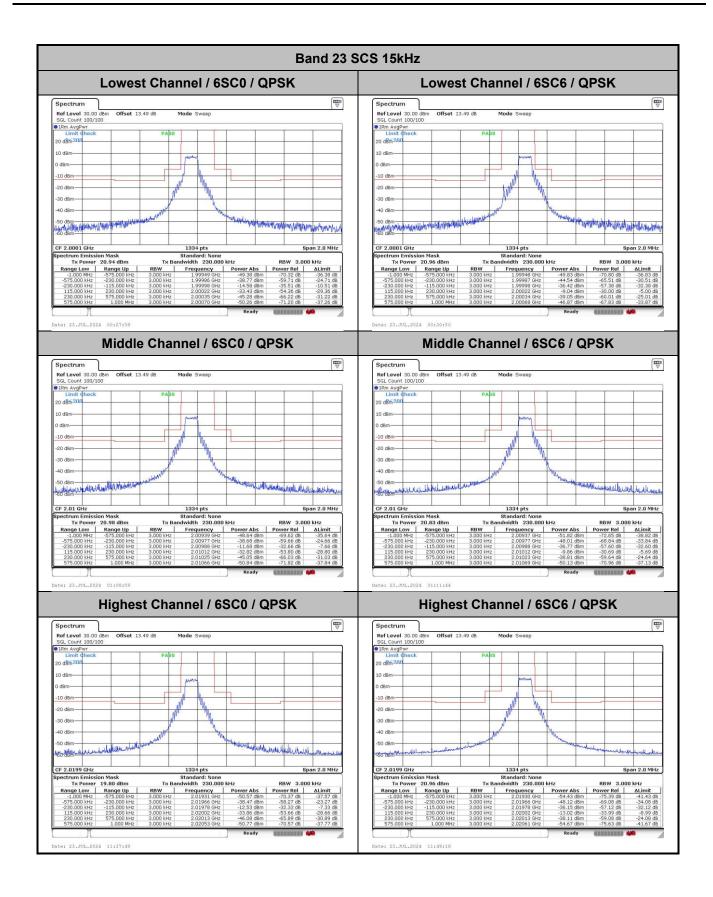
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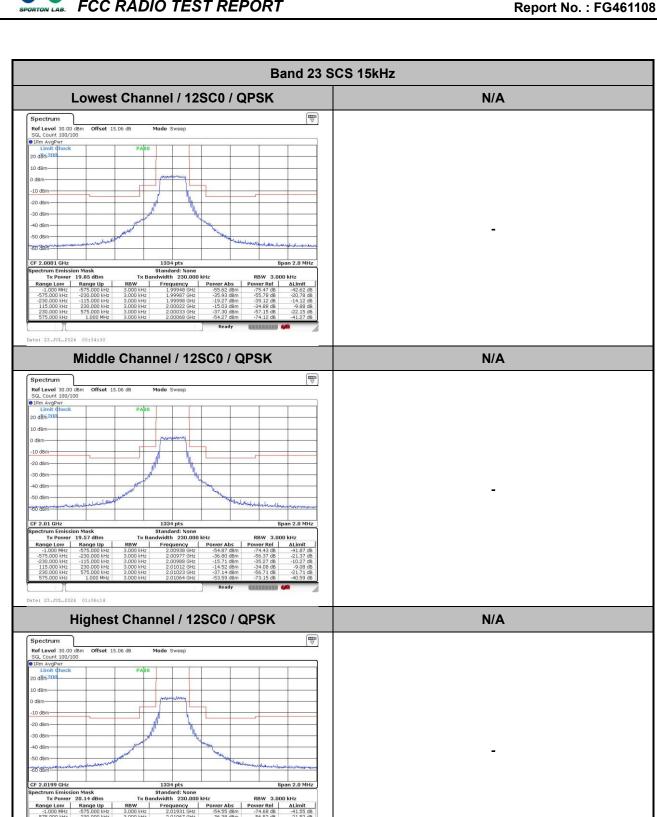


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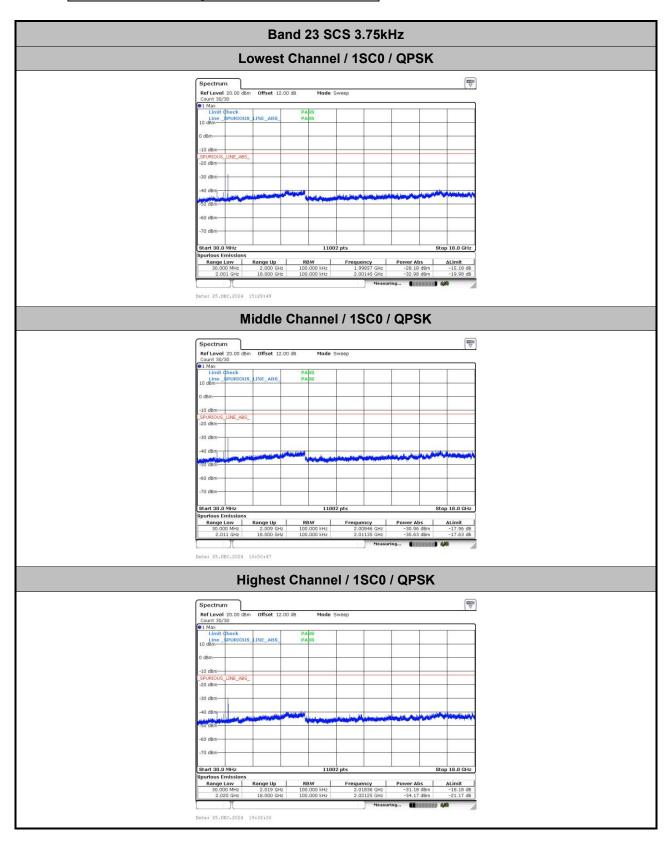


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Conducted Spurious Emission

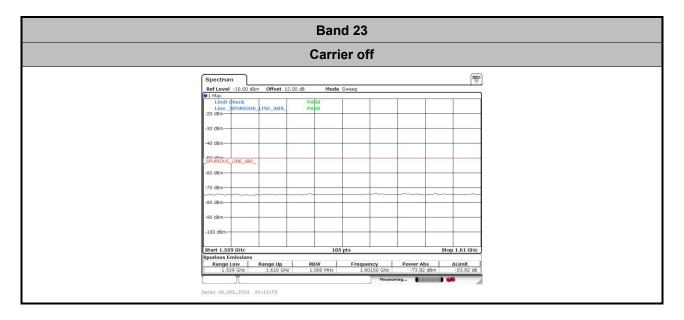


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Emission limits for protection of aeronautical service

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B23 L CH 2000.1MHz Broadband									
SCS (kHz)	Modulation	SC Setting	Measured Conducted Value (dBm/MHz)	Gain (dBi)	Measured EIRP Value (dBm/MHz)	Limt (dBm/MHz)	ΔLimit (dB)	Test Result	
3.75	BPSK	1SC0	-51.42	8.50	-42.92	-40.00	-2.92	Pass	
3.75	BPSK	1SC47	-51.22	8.50	-42.72	-40.00	-2.72	Pass	
3.75	QPSK	1SC0	-51.43	8.50	-42.93	-40.00	-2.93	Pass	
3.75	QPSK	1SC47	-51.33	8.50	-42.83	-40.00	-2.83	Pass	
15	BPSK	1SC0	-51.17	8.50	-42.67	-40.00	-2.67	Pass	
15	BPSK	1SC11	-51.29	8.50	-42.79	-40.00	-2.79	Pass	
15	QPSK	1SC0	-51.40	8.50	-42.90	-40.00	-2.90	Pass	
15	QPSK	1SC11	-50.63	8.50	-42.13	-40.00	-2.13	Pass	
15	QPSK	3SC0	-51.28	8.50	-42.78	-40.00	-2.78	Pass	
15	QPSK	3SC9	-51.53	8.50	-43.03	-40.00	-3.03	Pass	
15	QPSK	6SC0	-51.64	8.50	-43.14	-40.00	-3.14	Pass	
15	QPSK	6SC6	-51.31	8.50	-42.81	-40.00	-2.81	Pass	
15	QPSK	12SC0	-51.88	8.50	-43.38	-40.00	-3.38	Pass	

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B23 M CH 2010MHz Broadband									
SCS (kHz)	Modulation	SC Setting	Measured Conducted Value (dBm/MHz)	Gain (dBi)	Measured EIRP Value (dBm/MHz)	Limt (dBm/MHz)	ΔLimit (dB)	Test Result	
3.75	BPSK	1SC0	-50.98	8.50	-42.48	-40.00	-2.48	Pass	
3.75	BPSK	1SC47	-51.40	8.50	-42.90	-40.00	-2.90	Pass	
3.75	QPSK	1SC0	-51.17	8.50	-42.67	-40.00	-2.67	Pass	
3.75	QPSK	1SC47	-51.25	8.50	-42.75	-40.00	-2.75	Pass	
15	BPSK	1SC0	-51.00	8.50	-42.50	-40.00	-2.50	Pass	
15	BPSK	1SC11	-51.17	8.50	-42.67	-40.00	-2.67	Pass	
15	QPSK	1SC0	-52.67	8.50	-44.17	-40.00	-4.17	Pass	
15	QPSK	1SC11	-51.11	8.50	-42.61	-40.00	-2.61	Pass	
15	QPSK	3SC0	-51.40	8.50	-42.90	-40.00	-2.90	Pass	
15	QPSK	3SC9	-51.30	8.50	-42.80	-40.00	-2.80	Pass	
15	QPSK	6SC0	-51.57	8.50	-43.07	-40.00	-3.07	Pass	
15	QPSK	6SC6	-50.92	8.50	-42.42	-40.00	-2.42	Pass	
15	QPSK	12SC0	-51.44	8.50	-42.94	-40.00	-2.94	Pass	

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B23 H CH 2019.9MHz Broadband									
SCS (kHz)	Modulation	SC Setting	Measured Conducted Value (dBm/MHz)	Gain (dBi)	Measured EIRP Value (dBm/MHz)	Limt (dBm/MHz)	ΔLimit (dB)	Test Result	
3.75	BPSK	1SC0	-51.25	8.50	-42.75	-40.00	-2.75	Pass	
3.75	BPSK	1SC47	-50.99	8.50	-42.49	-40.00	-2.49	Pass	
3.75	QPSK	1SC0	-50.86	8.50	-42.36	-40.00	-2.36	Pass	
3.75	QPSK	1SC47	-50.86	8.50	-42.36	-40.00	-2.36	Pass	
15	BPSK	1SC0	-51.01	8.50	-42.51	-40.00	-2.51	Pass	
15	BPSK	1SC11	-51.08	8.50	-42.58	-40.00	-2.58	Pass	
15	QPSK	1SC0	-50.52	8.50	-42.02	-40.00	-2.02	Pass	
15	QPSK	1SC11	-50.90	8.50	-42.40	-40.00	-2.40	Pass	
15	QPSK	3SC0	-50.98	8.50	-42.48	-40.00	-2.48	Pass	
15	QPSK	3SC9	-50.79	8.50	-42.29	-40.00	-2.29	Pass	
15	QPSK	6SC0	-50.75	8.50	-42.25	-40.00	-2.25	Pass	
15	QPSK	6SC6	-50.92	8.50	-42.42	-40.00	-2.42	Pass	
15	QPSK	12SC0	-51.40	8.50	-42.90	-40.00	-2.90	Pass	

Report No. : FG461108

Remark: The max hold trace is used initially. If the result of the max hold trace fails, then the plot will be zoomed in on the frequency with the worst signal, and the average trace will be used.

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B23 L CH 2000.1MHz Discrete Measured Measured SCS Conducted Gain **EIRP** Limt ΔLimit Modulation SC Setting Test Result (kHz) Value (dBi) Value (dBm/kHz) (dB) (dBm/30kHz) (dBm/30kHz) 3.75 **BPSK** 1SC0 -56.49 8.50 -47.99 -50.00 2.01 Fail **BPSK** 1SC47 -56.64 3.75 8.50 -48.14 -50.00 1.86 Fail **QPSK** 3.75 1SC0 -56.13 8.50 -47.63 -50.00 2.37 Fail 3.75 **QPSK** 1SC47 -56.40 8.50 -47.90 -50.00 2.10 Fail 15 **BPSK** 1SC0 -57.37 8.50 -48.87 -50.00 1.13 Fail **BPSK** 15 1SC11 -56.72 8.50 -48.22-50.00 1.78 Fail 15 **QPSK** 1SC0 -57.63 8.50 -49.13 -50.00 0.87 Fail 15 **QPSK** 1SC11 -56.91 8.50 -48.41 -50.00 1.59 Fail 3SC0 15 **QPSK** -57.25 8.50 -48.75 -50.00 1.25 Fail 15 **QPSK** 3SC9 -57.53 8.50 -49.03 -50.00 0.97 Fail 15 **QPSK** 6SC0 -57.86 8.50 -49.36 -50.00 0.64 Fail 15 **QPSK** 6SC6 -56.94 8.50 -48.44 -50.00 1.56 Fail -49.48 15 **QPSK** 12SC0 -57.98 8.50 -50.00 0.52 Fail Zoom in - RBW 1kHz Verify Measured Measured SCS Conducted Gain **EIRP** ΔLimit Limt Modulation SC Setting Test Result (kHz) Value (dBi) Value (dBm/kHz) (dB) (dBm/kHz) (dBm/kHz) **BPSK** 1SC0 Pass 3.75 -64.258.50 -55.75 -50.00 -5.753.75 **BPSK** 1SC47 -64.94 8.50 -56.44 -50.00 -6.44**Pass** 3.75 **QPSK** 1SC0 -64.32 8.50 -55.82 -50.00 -5.82 **Pass** 3.75 **QPSK** 1SC47 -64.16 -55.66 -50.00 -5.66 Pass 8.50 **BPSK** -66.57 15 1SC0 8.50 -58.07 -50.00 -8.07 **Pass BPSK** 1SC11 -65.77 -57.27 -50.00 -7.27 Pass 15 8.50 15 **QPSK** 1SC0 -65.88 -57.38 -50.00 -7.388.50 Pass 15 **QPSK** 1SC11 -66.21 8.50 -57.71 -50.00 -7.71 Pass **QPSK** -67.36 -50.00 15 3SC0 8.50 -58.86 -8.86 **Pass** -57.50 -7.50 15 **QPSK** 3SC9 -66.00 8.50 -50.00 Pass 15 **QPSK** 6SC0 -66.30 8.50 -57.80 -50.00 -7.80 **Pass** 6SC6 15 **QPSK** -66.22 8.50 -57.72 -50.00 -7.72 Pass -58.73 -8.73

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8.50

-50.00

Pass

FAX: 886-3-327-0855

15

QPSK

12SC0

-67.23



B23 M CH 2010MHz Discrete Measured Measured SCS Conducted Gain **EIRP** Limt ΔLimit Modulation SC Setting Test Result (kHz) Value (dBi) Value (dBm/kHz) (dB) (dBm/30kHz) (dBm/30kHz) 3.75 **BPSK** 1SC0 -57.41 8.50 -48.91 -50.00 1.09 Fail **BPSK** 1SC47 -56.17 -47.67 3.75 8.50 -50.00 2.33 Fail **QPSK** 3.75 1SC0 -56.97 8.50 -48.47 -50.00 1.53 Fail 3.75 **QPSK** 1SC47 -56.21 8.50 -47.71 -50.00 2.29 Fail 15 **BPSK** 1SC0 -56.89 8.50 -48.39 -50.00 1.61 Fail **BPSK** 15 1SC11 -56.758.50 -48.25-50.00 1.75 Fail 15 **QPSK** 1SC0 -57.43 8.50 -48.93 -50.00 1.07 Fail 15 **QPSK** 1SC11 -56.14 8.50 -47.64 -50.00 2.36 Fail 3SC0 15 **QPSK** -57.42 8.50 -48.92 -50.00 1.08 Fail 15 **QPSK** 3SC9 -56.93 8.50 -48.43 -50.00 1.57 Fail 15 **QPSK** 6SC0 -58.14 8.50 -49.64 -50.00 0.36 Fail 15 **QPSK** 6SC6 -57.63 8.50 -49.13 -50.00 0.87 Fail 15 **QPSK** 12SC0 -58.92 8.50 -50.42 -50.00 -0.42Pass Zoom in - RBW 1kHz Verify Measured Measured SCS Conducted Gain **EIRP** ΔLimit Limt Modulation SC Setting Test Result (kHz) Value (dBi) Value (dBm/kHz) (dB) (dBm/kHz) (dBm/kHz) **BPSK** 1SC0 -55.59 3.75 -64.098.50 -50.00 -5.59Pass 3.75 **BPSK** 1SC47 -64.43 8.50 -55.93 -50.00 -5.93 **Pass** 3.75 **QPSK** 1SC0 -63.68 8.50 -55.18 -50.00 -5.18**Pass** 3.75 **QPSK** 1SC47 -64.31 -55.81 -50.00 -5.81 Pass 8.50 **BPSK** -64.55 -56.05 15 1SC0 8.50 -50.00 -6.05 **Pass BPSK** 1SC11 -65.00 -56.50 -50.00 -6.50 Pass 15 8.50 15 **QPSK** 1SC0 -64.81 -50.00 -6.318.50 -56.31 Pass 15 **QPSK** 1SC11 -64.54 8.50 -56.04 -50.00 -6.04 Pass **QPSK** -57.95 -7.95 15 3SC0 -66.458.50 -50.00 **Pass** 3SC9 -57.53 -7.53 15 **QPSK** -66.03 8.50 -50.00 Pass 15 **QPSK** 6SC0 -65.62 8.50 -57.12 -50.00 -7.12 **Pass**

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8.50

8.50

-58.08

_

-50.00

-8.08

Pass

Pass

FAX: 886-3-327-0855

15

15

QPSK

QPSK

6SC6

12SC0

-66.58



							•		
B23 H CH 2019.9MHz Discrete									
SCS (kHz)	Modulation	SC Setting	Measured Conducted Value (dBm/30kHz)	Gain (dBi)	Measured EIRP Value (dBm/30kHz)	Limt (dBm/kHz)	ΔLimit (dB)	Test Result	
3.75	BPSK	1SC0	-56.99	8.50	-48.49	-50.00	1.51	Fail	
3.75	BPSK	1SC47	-56.75	8.50	-48.25	-50.00	1.75	Fail	
3.75	QPSK	1SC0	-56.77	8.50	-48.27	-50.00	1.73	Fail	
3.75	QPSK	1SC47	-55.62	8.50	-47.12	-50.00	2.88	Fail	
15	BPSK	1SC0	-55.87	8.50	-47.37	-50.00	2.63	Fail	
15	BPSK	1SC11	-56.38	8.50	-47.88	-50.00	2.12	Fail	
15	QPSK	1SC0	-56.00	8.50	-47.50	-50.00	2.50	Fail	
15	QPSK	1SC11	-55.91	8.50	-47.41	-50.00	2.59	Fail	
15	QPSK	3SC0	-57.28	8.50	-48.78	-50.00	1.22	Fail	
15	QPSK	3SC9	-57.86	8.50	-49.36	-50.00	0.64	Fail	
15	QPSK	6SC0	-56.99	8.50	-48.49	-50.00	1.51	Fail	
15	QPSK	6SC6	-56.90	8.50	-48.40	-50.00	1.60	Fail	
15	QPSK	12SC0	-57.34	8.50	-48.84	-50.00	1.16	Fail	
			Zoom ii	n - RBW 1k	Hz Verify				
SCS (kHz)	Modulation	SC Setting	Measured Conducted Value (dBm/kHz)	Gain (dBi)	Measured EIRP Value (dBm/kHz)	Limt (dBm/kHz)	ΔLimit (dB)	Test Result	
3.75	BPSK	1SC0	-63.42	8.50	-54.92	-50.00	-4.92	Pass	
3.75	BPSK	1SC47	-63.83	8.50	-55.33	-50.00	-5.33	Pass	
3.75	QPSK	1SC0	-64.19	8.50	-55.69	-50.00	-5.69	Pass	
3.75	QPSK	1SC47	-63.42	8.50	-54.92	-50.00	-4.92	Pass	
15	BPSK	1SC0	-65.52	8.50	-57.02	-50.00	-7.02	Pass	
15	BPSK	1SC11	-64.77	8.50	-56.27	-50.00	-6.27	Pass	
15	QPSK	1SC0	-65.34	8.50	-56.84	-50.00	-6.84	Pass	
15	QPSK	1SC11	-65.19	8.50	-56.69	-50.00	-6.69	Pass	
15	QPSK	3SC0	-66.26	8.50	-57.76	-50.00	-7.76	Pass	
15	QPSK	3SC9	-66.08	8.50	-57.58	-50.00	-7.58	Pass	
15	QPSK	6SC0	-65.97	8.50	-57.47	-50.00	-7.47	Pass	
15	QPSK	6SC6	-66.35	8.50	-57.85	-50.00	-7.85	Pass	

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Remark: The RBW is set to 30 kHz initially. If the result of the RBW 30 kHz fails, then the plot will be zoomed in on the frequency with the worst signal, and the RBW will be set to 1 kHz.

8.50

-59.14

-50.00

-9.14

Pass

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FAX: 886-3-327-0855

15

QPSK

12SC0

-67.64

Band 23 SCS 3.75kHz **BPSK** Lowest Channel / 1SC0 Broadband Lowest Channel / 1SC0 Broadband - Zoom in Verify Ref Level 0.00 d8m Offset 12.00 d8

1 Max
Limit check
Line_spurious_LINE_ABS_
-10 d8m Mode Sweep SPURIOUS -50 dBm-60 dBm 70 dBm 80 dBm 90 dBm-Middle Channel / 1SC0 Broadband Middle Channel / 1SC0 Broadband - Zoom in Verify Spectrum Ref Level 0.00 dBm Offset 12.00 dB -20 dBm--30 dBm-SPURIOUS_LINE_ABS_ -50 dBm--60 dBm -70 dBm
 RBW
 Frequency
 Power Abs
 ΔLimit

 1.000 MHz
 1.88153 GHz
 -50.98 dBm
 -10.98 dB
 Highest Channel / 1SC0 Broadband Highest Channel / 1SC0 Broadband - Zoom in Verify Spectrum -20 dBm -50 dBm-103 pts

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Lowest Channel / 1SC47 Broadband Lowest Channel / 1SC47 Broadband - Zoom in Verify Spectrum -30 dBm-SPURIOUS LINE ABS -50 dBm-
 Spurious Emissions
 Range Low
 Range Up
 RBW
 Frequency
 Power Abs
 ∆Limit

 1.559 GHz
 1.610 GHz
 1.000 MHz
 1.58648 GHz
 -51.22 dbm
 -11.22 dB
 Date: 25.DEC.2024 15:18:55 Middle Channel / 1SC47 Broadband Middle Channel / 1SC47 Broadband - Zoom in Verify Spectrum
Ref Level 0.00 dBm Offset 12.00 dB Mode Sweep 1 Max
Limit check
Line SPURIOUS LINE ABS SPURIOUS_LINE_ABS_ -70 dBm -80 dBm-Highest Channel / 1SC47 Broadband Highest Channel / 1SC47 Broadband - Zoom in Verify Spectrum
Ref Level 0.00 dBm Offset 12.00 dB Mode Sweep Limit Check
Line SPURIOUS LINE_ABS_
-10 dBm -20 dBm--30 dBm-SPURIOUS_LINE_ABS_ -50 dBm -60 dBm-70 dBm-80 dBm-90 d8m-
 Range Lov
 Range Up
 RBW
 Frequency
 Power Abs
 ALImit

 1.559 GHz
 1.610 GHz
 1.000 MHz
 1.59391 GHz
 -50.99 dBm
 -10.99 dB

Report No.: FG461108

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FAX: 886-3-327-0855

Date: 25.DEC.2024 19:15:52

Date: 25.DEC.2024 19:09:31

FAX: 886-3-327-0855

Lowest Channel / 1SC0 Discrete Lowest Channel / 1SC0 Discrete - Zoom in Verify Spectrum Ref Level 0.00 d8m Offset 12.00 d8

1 Max
Limit Check
Line_SPURIOUS_LINE_ABS_
-10 d8m Ref Level 0.00 dBm Offset 12.00 dB Mode Sweep liggle in the many was springered an dam-Frequency 1.59110 G Power Abs ALimit Date: 25.DEC.2024 15:12:50 Date: 25.DEC.2024 15:14:27 Middle Channel / 1SC0 Discrete Middle Channel / 1SC0 Discrete - Zoom in Verify Spectrum Spectrum Ref Level 0.00 d8m Offset 12.00 d8 Mode Sweep Ref Level 0.00 dBm Offset 12.00 dB Mode Sweep 1 Max
Limit check
Line _SPURIOUS_LINE_ABS_ 1 Max
Limit check
Line spurious LINE_ABS_
-10 dBm M1[1] M1[1] 20 dBm--20 dBm--30 dBm--30 dBm--40 dBm--40 dBm--60 dBm-50 damme 70 dBm Angle of the property of the p 80 dBm 90 dBm-90 dBm-Date: 25.DEC.2024 10:10:13 Date: 25.DEC.2024 10:11:36 **Highest Channel / 1SC0 Discrete** Highest Channel / 1SC0 Discrete - Zoom in Verify Spectrum -20 dBm-20 dBm -30 dBm-40 dBm-40 dBm-SPURIOUS_LINE_ABS_ -80 dBm 1701 pts Stop 1.61 GHz CF 1.571428 GHz 1001 pts
 RBW
 Frequency
 Power Abs
 ALimit

 30.000 kHz
 1.57143 GHz
 -56.99 dBm
 -6.99 dB

 Range Low
 Range Up
 RBW
 Frequency
 Power Abs
 ALimit

 1.571 GHz
 1.572 GHz
 1.000 kHz
 1.57144 GHz
 -63.42 dBm
 -13.42 dB

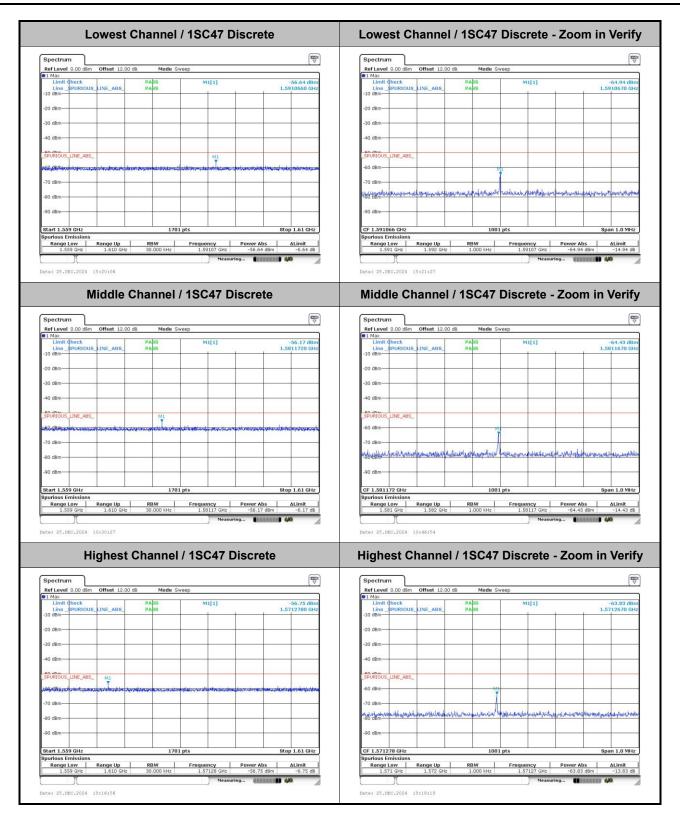
 Range Low
 Range Up

 1.559 GHz
 1.610 GHz

Report No.: FG461108

Date: 25.DEC.2024 19:12:17

FAX: 886-3-327-0855



Report No.: FG461108

Band 23 SCS 3.75kHz **QPSK** Lowest Channel / 1SC0 Broadband Lowest Channel / 1SC0 Broadband - Zoom in Verify Ref Level 0.00 d8m Offset 12.00 d8

1 Max
Limit check
Line_spurious_LINE_ABS_
-10 d8m Mode Sweep SPURIOUS -50 dBm-80 dBm 90 dBm-Middle Channel / 1SC0 Broadband Middle Channel / 1SC0 Broadband - Zoom in Verify Spectrum Ref Level 0.00 dBm Offset 12.00 dB -20 dBm--30 dBm-SPURIOUS_LINE_ABS_ -50 dBm--60 dBm -70 dBm
 RBW
 Frequency
 Power Abs
 ∆Limit

 1.000 MHz
 1.56469 GHz
 -51.17 dBm
 -11.17 dB
 Highest Channel / 1SC0 Broadband Highest Channel / 1SC0 Broadband - Zoom in Verify Spectrum -50 dBm-103 pts
 RBW
 Frequency
 Power Abs
 ∆Limit

 1.000 MHz
 1.57212 GHz
 −50.86 dBm
 −10.86 dB

 Neasuring...

Report No.: FG461108

TEL: 886-3-327-0868 Page Number : A1-28 of 50

Lowest Channel / 1SC47 Broadband Lowest Channel / 1SC47 Broadband - Zoom in Verify Spectrum -30 dBm-SPURIOUS LINE ABS -50 dBm-
 Spurious Emissions
 Range Lyw
 Range Up
 RBW
 Frequency
 Power Abs
 ALimik

 1.559 Otz
 1.610 GHz
 1.000 MHz
 1.59094 GHz
 -51.33 dBm
 -11.33 dB
 Date: 25.DEC.2024 15:32:51 Middle Channel / 1SC47 Broadband Middle Channel / 1SC47 Broadband - Zoom in Verify Spectrum
Ref Level 0.00 dBm Offset 12.00 dB Mode Sweep 1 Max
Limit check
Line SPURIOUS LINE ABS SPURIOUS_LINE_ABS_ -70 dBm -80 dBm-Highest Channel / 1SC47 Broadband Highest Channel / 1SC47 Broadband - Zoom in Verify Spectrum
Ref Level 0.00 dBm Offset 12.00 dB Mode Sweep Limit Check
Line SPURIOUS LINE_ABS_
-10 dBm -20 dBm--30 dBm-SPURIOUS_LINE_ABS_ -50 dBm -60 dBm-70 dBm-80 dBm-90 d8m-
 purious Emissions

 Range Low
 Range Up
 RBW
 Frequency
 Power Abs
 ALimit

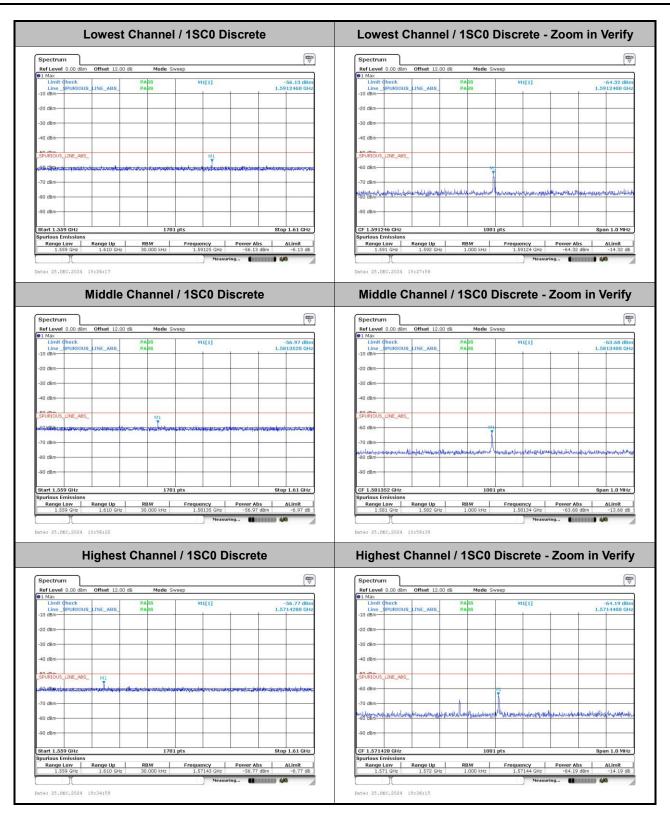
 1.559 fdt
 1.610 GHz
 1.000 MHz
 1.60678 GHz
 -50.86 dBm
 -10.86 dB

Report No.: FG461108

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FAX: 886-3-327-0855

Date: 25.DEC.2024 19:38:34



Report No.: FG461108

Lowest Channel / 1SC47 Discrete Lowest Channel / 1SC47 Discrete - Zoom in Verify Ref Level 0.00 d8m Offset 12.00 d8

1 Max
Limit check
Line _SPURIOUS_LINE_ABS_
-10 d8m Ref Level 0.00 dBm Offset 12.00 dB Mode Sweep Mode Sweep Carles of the state of the stat an dam-90 dBm purious Emissions
Range Low Range Up RBW Date: 25.DEC.2024 15:34:28 Date: 25.DEC.2024 15:36:10 Middle Channel / 1SC47 Discrete Middle Channel / 1SC47 Discrete - Zoom in Verify Spectrum Spectrum Ref Level 0.00 dBm Offset 12.00 dB Mode Sweep Ref Level 0.00 dBm Offset 12.00 dB Mode Sweep 1 Max
Limit check
Line _SPURIOUS_LINE_ABS_ 1 Max
Limit check
Line spurious LINE_ABS_
-10 dBm M1[1] M1[1] 20 dBm--20 dBm--30 dBm--30 dBm--40 dBm--40 dBm-SPURIOUS_LINE_ABS_ -60 dBmsa deman 70 dBm Application of the property of the second of 80 dBm -90 dBm-90 dBm-Date: 25.DEC.2024 11:08:10 **Highest Channel / 1SC47 Discrete** Highest Channel / 1SC47 Discrete - Zoom in Verify Spectrum 1 Max
Limit Check
Line SPURIOUS LINE ABS 20 dBm-20 dBm -30 dBm--30 dBm 40 dBm-40 dBm-SPURIOUS_LINE_ABS_ SPURIOUS_LINE_ABS_ ABU dBm 1701 pts Stop 1.61 GHz CF 1.571278 GHz 1001 pts
 RBW
 Frequency
 Power Abs
 ALimit

 30.000 kHz
 1.57128 GHz
 -55.62 dBm
 -5.62 dB

 Range Low
 Range Up
 RBW
 Frequency
 Power Abs
 ALimit

 1.571 GHz
 1.572 GHz
 1.000 kHz
 1.57127 GHz
 -63.42 dBm
 -13.42 dB

Report No.: FG461108

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Date: 25.DEC.2024 19:41:52

FAX: 886-3-327-0855

Date: 25.DEC.2024 19:39:53

Band 23 SCS 15kHz **BPSK** Lowest Channel / 1SC0 Broadband Lowest Channel / 1SC0 Broadband - Zoom in Verify Ref Level 0.00 d8m Offset 12.00 d8

1 Max
Limit check
Line_spurious_LINE_ABS_
-10 d8m Mode Sweep SPURIOUS -50 dBm-70 dBm 80 dBm 90 dBm-Middle Channel / 1SC0 Broadband Middle Channel / 1SC0 Broadband - Zoom in Verify Spectrum Ref Level 0.00 dBm Offset 12.00 dB -20 dBm--30 dBm-SPURIOUS_LINE_ABS_ -50 dBm--60 dBm -70 dBm
 RBW
 Frequency
 Power Abs
 ΔLimit

 1.000 MHz
 1.56420 GHz
 -51.00 dBm
 -11.00 dB
 Highest Channel / 1SC0 Broadband Highest Channel / 1SC0 Broadband - Zoom in Verify Spectrum -20 dBm -50 dBm-103 pts

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Lowest Channel / 1SC11 Broadband Lowest Channel / 1SC11 Broadband -Verify Spectrum -30 dBm SPURIOUS LINE ABS -50 dBm-
 Spurious Emissions
 Range Low
 Range Up
 RBW
 Frequency
 Power Abs
 ∆Limit

 1.559 GHz
 1.610 GHz
 1.000 MHz
 1.59985 GHz
 -51.29 dBm
 -11.29 dB
 Date: 25.DEC.2024 15:49:36 Middle Channel / 1SC11 Broadband Middle Channel / 1SC11 Broadband -Verify Ref Level 0.00 dBm Offset 12.00 dB Mode Sweep 1 Max
Limit check
Line SPURIOUS LINE ABS SPURIOUS_LINE_ABS_ -70 dBm -80 dBm-Highest Channel / 1SC11 Broadband Highest Channel / 1SC11 Broadband -Verify Spectrum
Ref Level 0.00 dBm Offset 12.00 dB Mode Sweep Limit Check
Line SPURIOUS LINE_ABS_
-10 dBm -20 dBm--30 dBm-SPURIOUS_LINE_ABS_ -50 dBm -60 dBm 70 dBm-80 dBm-90 d8m-
 Range Lov
 Range Up
 RBW
 Frequency
 Power Abs
 ALImik

 1.559 GHz
 1.610 GHz
 1.000 MHz
 1.57113 GHz
 -51.06 dBm
 -11.08 dB

Report No.: FG461108

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FAX: 886-3-327-0855

Date: 25.DEC.2024 19:51:14