



TEST REPORT

Product Name: IP Phone

Trade Mark: GRANDSTREAM

Model No. / HVIN: GRP2670

Report Number: 210821025RFC-2

Test Standards: FCC 47 CFR Part 15 Subpart C

RSS-247 Issue 2 RSS-Gen Issue 5

FCC ID: YZZGRP2670

IC: 11964A-GRP2670

Test Result: PASS

Date of Issue: October 18, 2021

Prepared for:

Grandstream Networks, Inc.

126 Brookline Ave., 3rd Floor Boston, MA 02215, USA

Prepared by:

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October 18, 2021

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Version

Version No.	Date	Description
V1.0	October 18, 2021	Original





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1. GENERAL INFORMATION 1.1 CLIENT INFORMATION

Applicant:	Grandstream Networks, Inc.	
Address of Applicant:	126 Brookline Ave., 3rd Floor Boston, MA 02215, USA	
Manufacturer:	Grandstream Networks, Inc.	
Address of Manufacturer:	126 Brookline Ave., 3rd Floor Boston, MA 02215, USA	

1.2 EUT INFORMATION

General Description of EUT

1.2.1 Scholar Beschption of Lot			
Product Name:	IP Phone		
Model No. / HVIN:	GRP2670		
Trade Mark:	GRANDSTREAM		
DUT Stage:	Identical Prototype		
	2.4 GHz ISM Band:	IEEE 802.11b/g/n	
		Bluetooth 5.0	
EUT Supports Function:	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac
EOT Supports Function.		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac
		5 470 MHz to 5 725 MHz	IEEE 802.11a/n/ac
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac
Sample Received Date:	August 21, 2021		
Sample Tested Date:	August 21, 2021 to September 25, 2021		

Description of Accessories

Adapter(1)			
Model No.:	GQ12-120100-AU		
Input:	100-240 V~50/60 Hz 0.4A Max		
Output:	12 V == 1.0 A		
DC Cable:	2.5 Meter, Unshielded without ferrite		

	Adapter(2)
Model No.:	DSA-12PFU-12 FUS 120100
Input:	100-240 V~50/60 Hz 0.5A
Output:	12 V== 1.0 A 12.0W
DC Cable:	2.5 Meter, Unshielded without ferrite

Adapter(3)		
Model No.:	F12US1200100A	
Input:	100-240 V~50/60 Hz 0.5A max	
Output:	12 V == 1.0 A	
DC Cable:	2.5 Meter, Unshielded without ferrite	



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Cable(1)		
Connector:	Ethernet Cable	
Cable Type:	Unshielded without ferrite	
Length:	1.5 Meter	

Cable(2)		
Connector:	Phone Cord	
Cable Type:	Unshielded without ferrite	
Length:	3.5 Meter	

Others	
1x Handset, 1x Phone Stand	

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth BR + EDR
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, π/4DQPSK, 8DPSK
Number of Channels:	79
Channel Separation:	1 MHz
Hopping Channel Type:	Adaptive Frequency Hopping Systems
Antenna Type:	Dipole Antenna
Antenna Gain:	4.5 dBi
Maximum Peak Power:	5.758 dBm
Normal Test Voltage:	120V~60Hz

1.4 OTHER INFORMATION

Operation Frequency Each of Channel		
f = 2402 + k MHz, k = 0,,78		
lator		
lote:		
is the operating frequency (MHz);		
is the operating channel.		

Modulation Configure					
Modulation	Packet	Packet Packet Type Packet S			
	1-DH1	4	27		
GFSK	1-DH3	11	183		
	1-DH5	15	339		
	2-DH1	20	54		
π/4 DQPSK	2-DH3	26	367		
	2-DH5	30	679		
	3-DH1	24	83		
8DPSK	3-DH3	27	552		
	3-DH5	31	1021		



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1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
Notebook	Lenovo	B40-80	MP12NEQ6	UnionTrust
USB disk	Kingston	DTSE9	N/A	UnionTrust
Mouse	DELL	MS111	CN-011D3V-738	UnionTrust
Headset	YEY	VE120-MV	N/A	UnionTrust
IP Phone	GRANDSTREAM	GRP2615	N/A	Applicant

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Ethernet Cable	RJ45	1.5 Unshielded without ferrite	UnionTrust
2	Ethernet Cable	RJ45	2.0 Unshielded without ferrite	UnionTrust
3	Ethernet Cable	RJ45	5.0 Unshielded without ferrite	UnionTrust
4	Antenna Cable	SMA	0.3 Meter	UnionTrust

1.6 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district,

Shenzhen, China

Telephone: +86 (0) 755 2823 0888 Fax: +86 (0) 755 2823 0886

1.7 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032



FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None

1.11 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted emission 9kHz-150kHz	±3.2 dB
2	Conducted emission 150kHz-30MHz	±2.7 dB
3	Radiated emission 9kHz-30MHz	± 4.7 dB
4	Radiated emission 30MHz-1GHz	± 4.9 dB
5	Radiated emission 1GHz-18GHz	± 4.8 dB
6	Radiated emission 18GHz-26GHz	± 5.1 dB
7	Radiated emission 26GHz-40GHz	± 5.1 dB
8	Conducted spurious emissions	± 2.7 dB
9	RF Power, Conducted	± 0.9 dB
10	Occupied Bandwidth	± 1.86 %
11	Radio Frequency	2.4 GHz: ± 6.5 x 10-8
12	Transmission Time	± 0.19 %



2. TEST SUMMARY

TEST SOMMANT	FCC 47 CFR Part 15 Subpart C Tes	t Caene	
Test Item	Test Requirement	Result	
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203/15.247 (c) RSS-Gen Issue 5, Section 6.8	Test Method N/A	PASS
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart C Section 15.207 RSS-Gen Issue 5, Section 8.8	ANSI C63.10-2013 Section 6.2	PASS
Conducted Peak Output Power	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(1) ANSI C63.10-20 Section 7.8.5		PASS
20 dB Bandwidth	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1) RSS-247 Issue 2, Section 5.1(a)	ANSI C63.10-2013 Section 6.9.2	PASS
Occupied Bandwidth	RSS-Gen section 6.7	RSS-Gen section 6.7	PASS
Carrier Frequencies Separation	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1) RSS-247 Issue 2, Section 5.1(b)	ANSI C63.10-2013 Section 7.8.2	PASS
Number of Hopping Channel	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(1) RSS-247 Issue 2, Section 5.1(d)	ANSI C63.10-2013 Section 7.8.3	PASS
Dwell Time	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1) RSS-247 Issue 2, Section 5.1(d)	ANSI C63.10-2013 Section 7.8,4	PASS
Conducted Out of Band Emission	FCC 47 CFR Part 15 Subpart C Section 15.247(d) RSS-247 Issue 2, Section 5.5	ANSI C63.10-2013 Section 6.10.4 & Section 7.8.8	PASS
Radiated Emissions	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209 RSS-Gen Issue 5, Section 6.13/8.9/8.10	ANSI C63.10-2013 Section 6.3 & 6.5 & 6.6	PASS
Band Edge Measurement	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209 RSS-247 Issue 2, Section 5.5	ANSI C63.10-2013 Section 6.10.5	PASS



3. EQUIPMENT LIST

	Radiated Emission Test Equipment List					
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
\boxtimes	3m SAC	ETS-LINDGREN	3m	N/A	Jan. 22, 2021	Jan. 21, 2024
\boxtimes	Receiver	R&S	ESIB26	100114	Nov. 18, 2020	Nov. 17, 2021
×	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	Apr. 22, 2021	Apr. 21, 2022
\boxtimes	Loop Antenna	ETS-LINDGREN	6502	00202525	Nov. 14, 2020	Nov. 13, 2021
\boxtimes	Broadband Antenna	ETS-LINDGREN	3142E	00201566	Nov. 14, 2020	Nov. 13, 2021
\boxtimes	6dB Attenuator	Talent	RA6A5-N- 18	18103001	Nov. 14, 2020	Nov.13, 2021
\boxtimes	Preamplifier	HP	8447F	2805A02960	Nov. 10, 2020	Nov. 9, 2021
	Band Rejection Filter (2400MHz~2500MHz)	Micro-Tronics	BRM50702	G248	Nov. 16, 2020	Nov. 15, 2021
×	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	Apr. 30, 2021	Apr. 29, 2023
\boxtimes	Pre-amplifier	ETS-Lindgren	00118385	00201874	Nov. 10, 2020	Nov. 9, 2021
	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	Nov. 14, 2020	Nov. 13, 2022
	Pre-amplifier	ETS-Lindgren	00118384	00202652	Nov. 17, 2020	Nov. 16, 2022
×	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
\boxtimes	Test Software	Audix	e3	Sof	tware Version: 9.160	0323

	Conducted Emission Test Equipment List					
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
	Receiver	R&S	ESR7	1316.3003K07 -101181-K3	Nov. 18, 2020	Nov.17, 2021
\boxtimes	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	Nov. 18, 2020	Nov.17, 2021
\boxtimes	LISN	R&S	ESH2-Z5	860014/024	Nov. 18, 2020	Nov.17, 2021
\boxtimes	LISN	ETS-Lindgren	3816/2SH	00201088	Nov. 18, 2020	Nov.17, 2021
\boxtimes	Test Software	Audix	e3	Sof	tware Version: 9.160	0323

	Conducted RF test Equipment List					
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
\boxtimes	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	Apr. 22, 2021	Apr. 21, 2022
\boxtimes	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	Nov. 10, 2020	Nov. 9, 2021
	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430023	Nov. 10, 2020	Nov. 9, 2021
	Wideband Radio Communication Tester	R&S	CMW500	120932	Nov. 10, 2020	Nov. 9, 2021



4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests				
Test Condition	Ambient				
Test Condition	Temperature (°C)	Voltage (V)	Relative Humidity (%)		
NT/NV	+15 to +35	120V~60Hz	20 to 75		
Remark: 1) NV: Normal Voltage; NT: Normal Temperature					

4.1.2 **Record of Normal Environment**

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)	Tested by
AC Power Line Conducted Emission	25.5	53	99.71	Niko Su
Conducted Peak Output Power	24.5	49	99.80	Bert Xiong
20 dB Bandwidth & Occupied Bandwidth	24.5	49	99.80	Bert Xiong
Carrier Frequencies Separation	24.5	49	99.80	Bert Xiong
Number of Hopping Channel	24.5	49	99.80	Bert Xiong
Dwell Time	24.5	49	99.80	Bert Xiong
Conducted Out of Band Emission	24.5	49	99.80	Bert Xiong
Radiated Emissions	25.2	52	100.02	Asia Yan
Band Edge Measurement	25.2	52	100.02	Asia Yan

4.2 TEST CHANNELS

Mode	Tx/Rx Frequency	To	est RF Channel List	ts
iviode	TX/KX Frequency	Lowest(L)	Middle(M)	Highest(H)
GFSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78
(DH1, DH3, DH5)	2402 WITZ 10 2400 WITZ	2402 MHz	2441 MHz	2480 MHz
π/4DQPSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78
(DH1, DH3, DH5)	2402 WITZ 10 2400 WITZ	2402 MHz	2441 MHz	2480 MHz
8DPSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78
(DH1, DH3, DH5)	2402 IVIDZ (0 2480 IVIDZ	2402 MHz	2441 MHz	2480 MHz

4.3 EUT TEST STATUS

Type of Modulation	Tx Function	Description
CECKI—MDODCKI		1. Keep the EUT in continuously transmitting with Modulation
GFSK/π/4DQPSK/ 8DPSK	1Tx	test single 2. Keep the EUT in continuously transmitting with Modulation
		test Hopping Frequency.

Power Setting
Power Setting: not applicable, test used software default power level.



	Test Software
Test software name: Putty commands;	

4.4 PRE-SCAN

Worst-case data packets

Type of Modulation	Worst-case data rates		
GFSK	1-DH5		
π/4DQPSK	2-DH5		
8DPSK	3-DH5		

Tested channel detail 4.4.2

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data packets and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Type of Modulation	GF:	SK	П	r/4DQPS	K		8DPSK	
Data Packets	1-DH 1-E 1 3		2-DH 1	2-DH 3	2-DH 5	3-DH 1	3-DH 3	3-DH 5
Available Channel	0 to 78							
Test Item	Test channel and choose of data packets							
AC Power Line Conducted Emission		Fred	uency Ho	opping Cl Link	nannel 0	to 78		
Conducted Peak Output	7//		Chani	nel 0 & 3	9 & 78			
Power					\boxtimes			\boxtimes
20 dB Bandwidth			Chanı	nel 0 & 3	9 & 78			
20 db baildwidth					\boxtimes			
Carrier Frequencies	Frequency Hopping Channel 0 to 78							
Separation					\boxtimes			\boxtimes
Number of Hopping Channel	Frequency Hopping Channel 0 to 78							
rtainer et riepping enamer								\boxtimes
Dwell Time	Channel 39							
Biren Time								\boxtimes
Conducted Out of Band	Channel 0 & 39 & 78							
Emission					×			\boxtimes
Radiated Emissions			Chanı	nel 0 & 3	9 & 78			
Table 2 Zillione 10								
Band Edge Measurements			Ch	annel 0 8	78		T T	
(Radiated)								
Remark: 1. The mark "⊠" means is chosen for testing:								

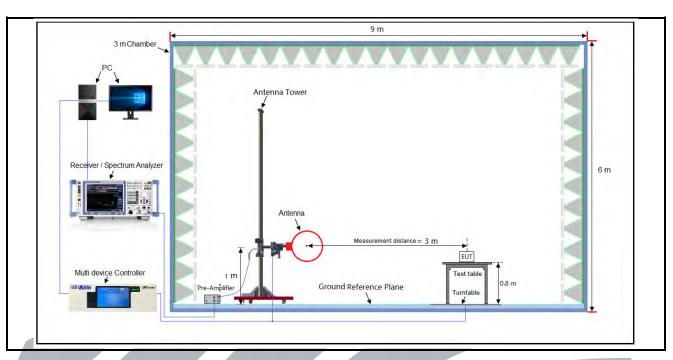
- 1. The mark "⊠" means is chosen for testing;
- 2. The mark "□" means is not chosen for testing.

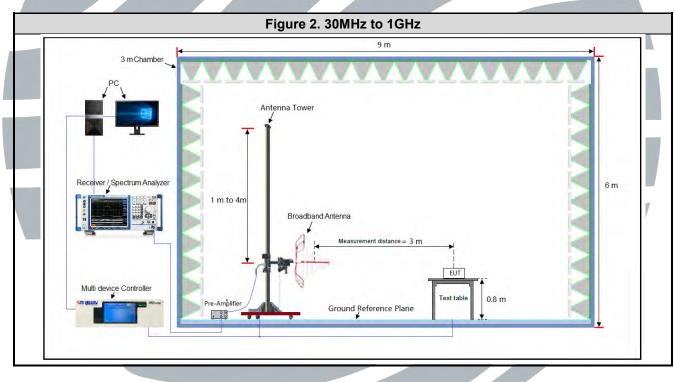
4.5 TEST SETUP

4.5.1 For Radiated Emissions test setup

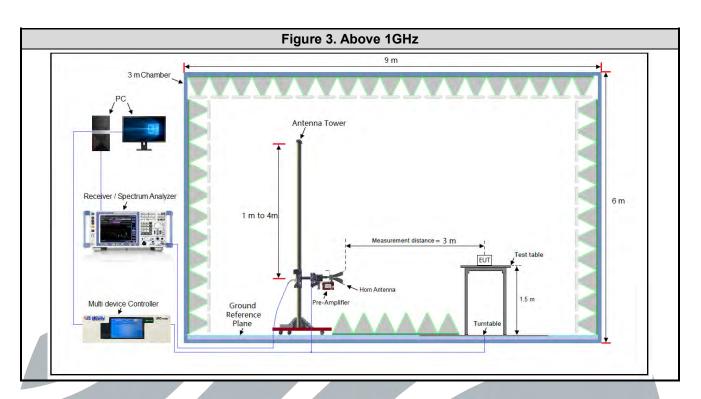
Figure 1. Below 30MHz



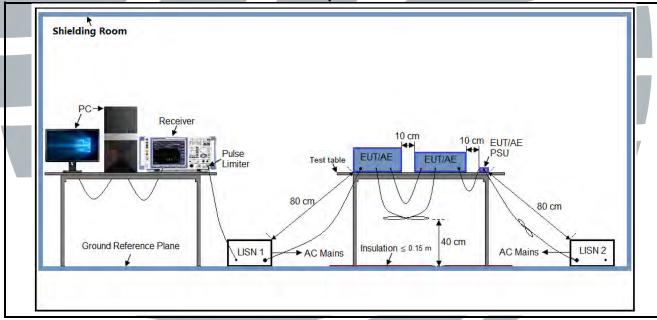






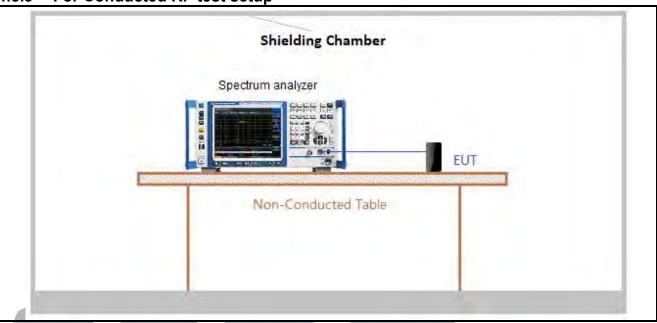


4.5.2 For Conducted Emissions test setup





4.5.3 For Conducted RF test setup



4.6 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. Only the worst case data were recorded in this test report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Therefore, all final radiated testing was performed with the EUT in (see table below) orientation.

Frequency	Mode	Antenna Port	Worst-case axis positioning
Above 1GHz	1TX	Chain 0	Y axis

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.



4.7 DUTY CYCLE

Test Procedure: ANSI C63.10-2013 Clause 11.6.

Test Results

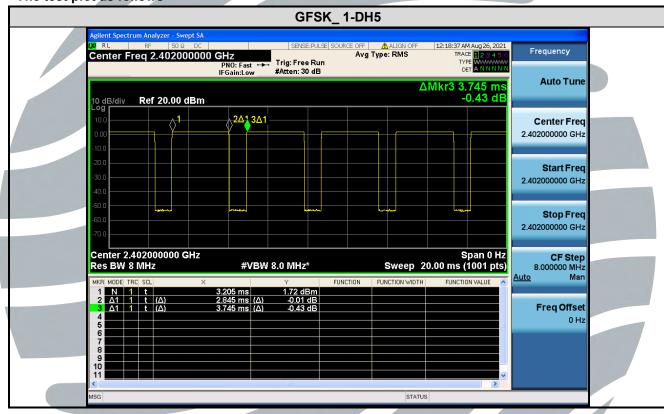
Type of Modulation	Packets	On Time (msec)	Period (msec)	Duty Cycle (linear)		Duty Cycle Factor (dB)	1/ T Minimum VBW (kHz)	Average Factor (dB)
GFSK	1-DH5	2.8450	3.7450	0.76	75.97	1.19	0.35	-2.39

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Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = 10 * log(1/ Duty cycle); 3) Average factor = 20 log₁₀ Duty Cycle.

The test plot as follows



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5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION 5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title					
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations					
2	FCC 47 CFR Part 15	Radio Frequency Devices					
3	RSS-247 Issue 2	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices					
4	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus					
5	ANSI C63.10-2013	American National Standard for Testing Unlicesed Wireless Devices					
6	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules					

5.2 ANTENNA REQUIREMENT

Standard Requirement

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-Gen Issue 5, Section 6.8 requirement:

According to RSS-Gen Issue 5, section 6.8, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns.

EUT Antenna:

Antenna in the interior of the equipment and no consideration of replacement. The gain of the antenna is 4.5



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5.3 CONDUCTED PEAK OUTPUT POWER

Test Requirement: FCC 47 CFR Part 15 Subpart C Section15.247 (b)(1)

RSS-247 Issue 2, Section 5.4(b) **Test Method:**ANSI C63.10-2013 Section 7.8.5

Limit: For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels;

the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W, except as

provided in section 5.4(e).

FHSs shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, FHSs operating in the band 2400-2483.5 MHz may have hopping channel carrier frequencies that are separated by 25 kHz or two thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided that the systems operate with an

output power no greater than 0.125 W.

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

a) Use the following spectrum analyzer settings:

1) Span: Approximately 5 x 20 dB bandwidth, centered on a hopping channel.

2) RBW > 20 dB bandwidth of the emission being measured.

3) VBW ≥ RBW.

4) Sweep: Auto.

5) Detector function: Peak.

6) Trace: Max hold.

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power, after any corrections for external attenuators and cables.

e) A plot of the test results and setup description shall be included in the test report.

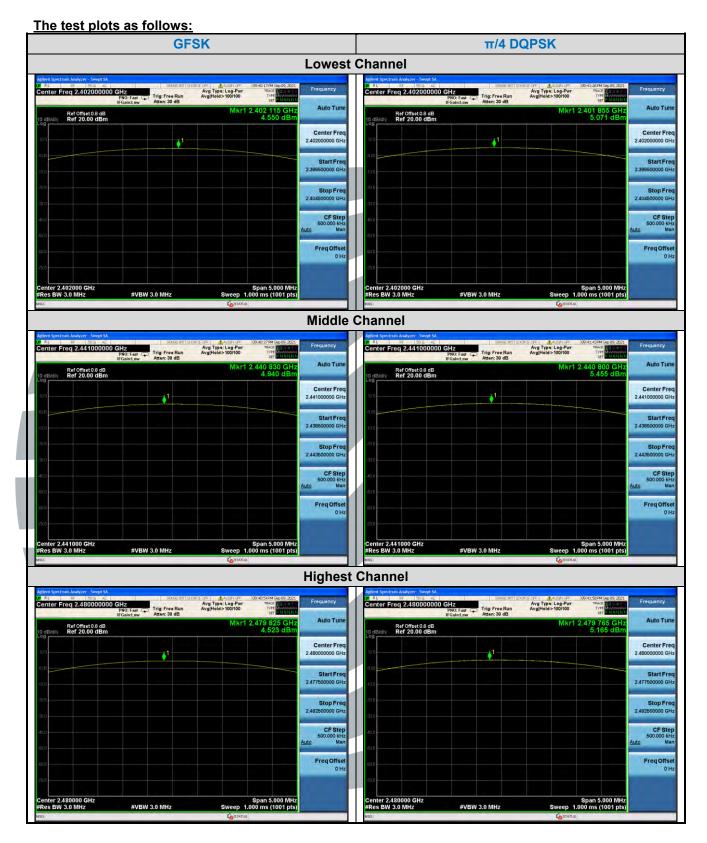
Test Setup: Refer to section 4.5.3 for details. **Instruments Used:** Refer to section 3 for details

Test Results: Pass

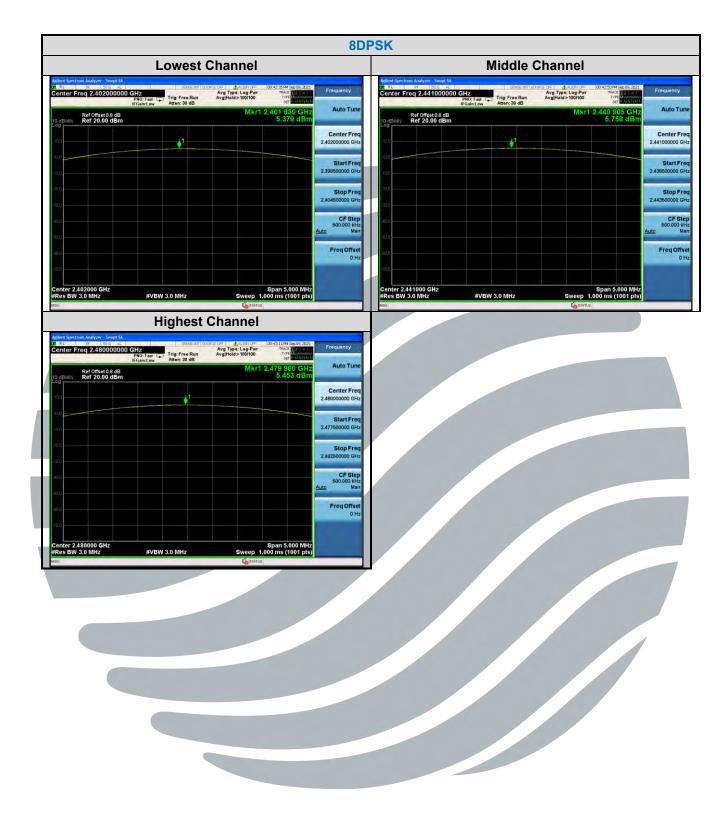
Type of	Peak	Output Power (dBm)	Peak Output Power (mW)			
Modulation	Channel 0	Channel 39	Channel 78	Channel 0	Channel 39	Channel 78	
GFSK	4.550	4.940	4.523	2.85	3.12	2.83	
π/4 DQPSK	5.071	5.455	5.165	3.21	3.51	3.28	
8DPSK	5.379	5.758	5.453	3.45	3.77	3.51	

Note: The antenna gain of 4.5 dBi less than 6dBi maximum permission antenna gain value based on 125 mW peak output power limit.











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5.420 DB BANDWIDTH & OCCUPIED BANDWIDTH

FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1)

Test Requirement: RSS-247 Issue 2, Section 5.1(a)

RSS-Gen section 6.7

ANSI C63.10-2013 Section 6.9.2

Test Method: ANSI Cos. 10-2013 Se RSS-Gen section 6.7

Limit: None; for reporting purposes only.

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the

antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

a) Span = approximately 2 to 5 times the OBW, centered on a hopping channel.

b) RBW = 1% to 5% of the OBW.

c) VBW ≥ 3 x RBW

d) Sweep = auto;

e) Detector function = peak

f) Trace = max hold

g) All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down bandwidth of the emission.

Note: The cable loss and attenuator loss were offset into measure device as an

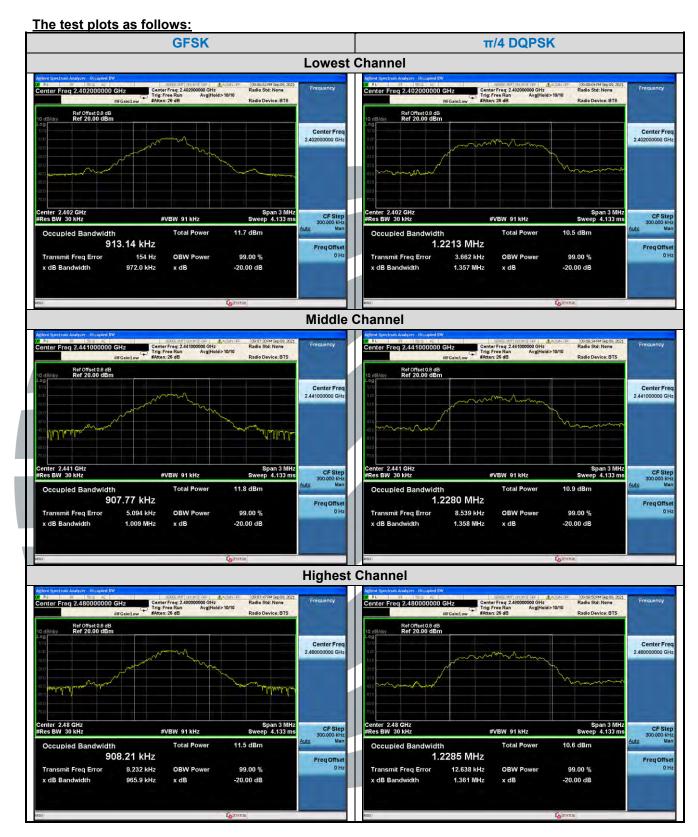
amplitude offset.

Test Setup: Refer to section 4.5.3 for details. **Instruments Used:** Refer to section 3 for details

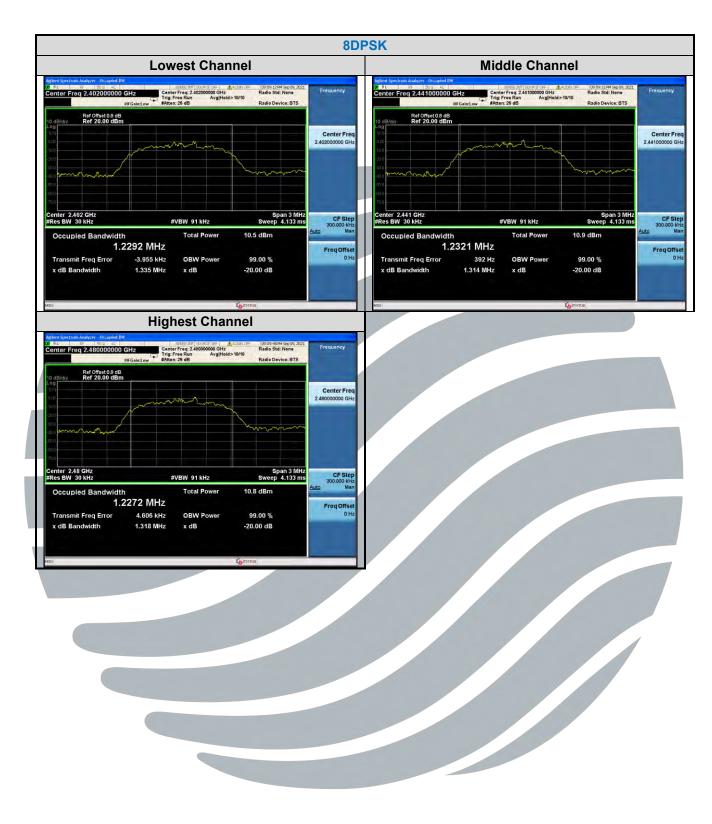
Test Results: Pass

Type of	20 dB Bandwidth (MHz)			Occupied Bandwidth (MHz)			
Modulation	Channel 0	Channel 39	Channel 78	Channel 0	Channel 39	Channel 78	
GFSK	0.972	1.009	0.9659	0.91314	0.90777	0.90821	
π/4 DQPSK	1.357	1.358	1.361	1.2213	1.2280	1.2285	
8DPSK	1.335	1.314	1.318	1.2292	1.2321	1.2272	











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5.5 CARRIER FREQUENCIES SEPARATION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1)

RSS-247 Issue 2, Section 5.1(b) **Test Method:**ANSI C63.10-2013 Section 7.8.2

Limit: Frequency hopping systems operating in the 2400-2483.5 MHz band may have

hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the

20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the

systems operate with an output power no greater than 125 mW.

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the

antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

a) Span: Wide enough to capture the peaks of two adjacent channels.

b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

c) Video (or average) bandwidth (VBW) ≥ RBW.

d) Sweep: Auto.

e) Detector function: Peak.

f) Trace: Max hold.

g) Allow the trace to stabilize.

h) Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

Note: The cable loss and attenuator loss were offset into measure device as an

amplitude offset.

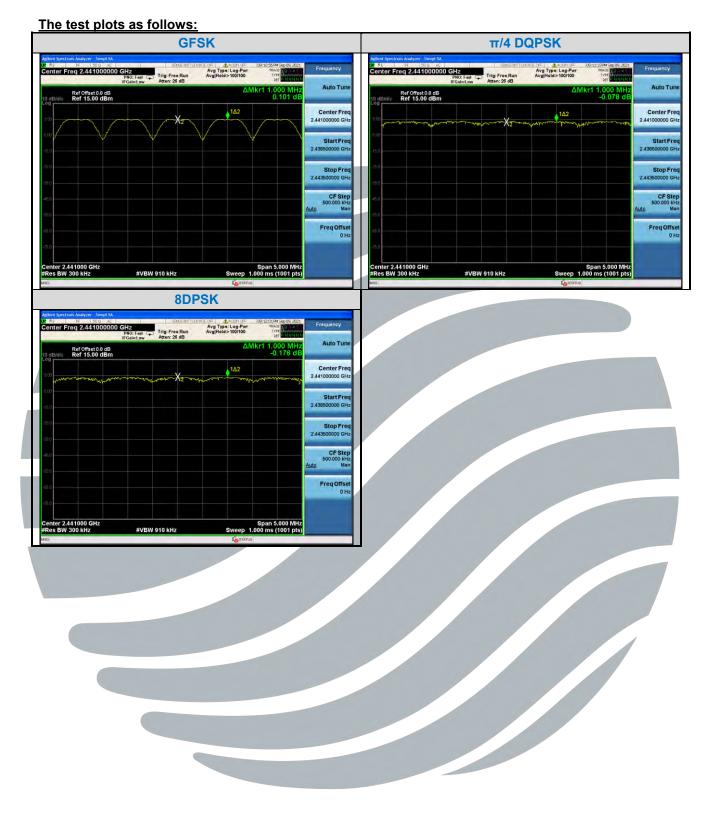
Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Results: Pass

Type of Medulation	Adjacent Channel Separation (MHz)	Minimum Limit (MHz)		
Type of Modulation	Channel 39	Channel 39		
GFSK	1.000	0.673		
π/4 DQPSK	1.000	0.905		
8DPSK	1.000	0.876		
Note: The minimum limit is two-th	ird 20 dB bandwidth.			







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5.6 NUMBER OF HOPPING CHANNEL

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247(b)(1)

RSS-247 Issue 2, Section 5.1(d) **Test Method:**ANSI C63.10-2013 Section 7.8.3

Limit: Frequency hopping systems in the 2400 - 2483.5 MHz band shall use at least 15

non-overlapping channels.

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the

antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.

b) RBW < 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

c) VBW ≥ RBW.

d) Sweep: Auto.

e) Detector function: Peak.

f) Trace: Max hold.

g) Allow the trace to stabilize.

Note: The cable loss and attenuator loss were offset into measure device as an

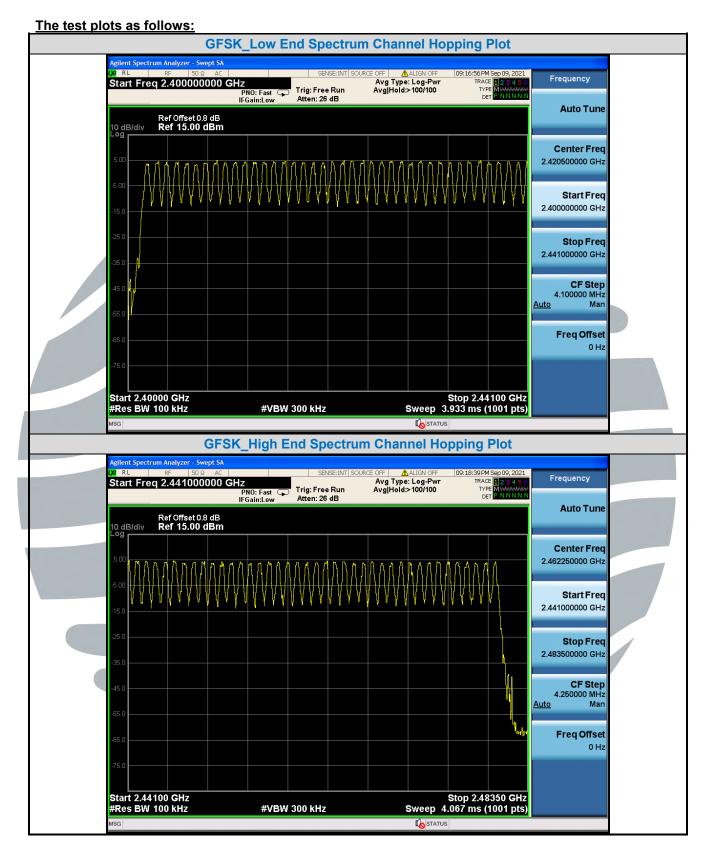
amplitude offset.

Test Setup: Refer to section 4.5.3 for details. **Instruments Used:** Refer to section 3 for details

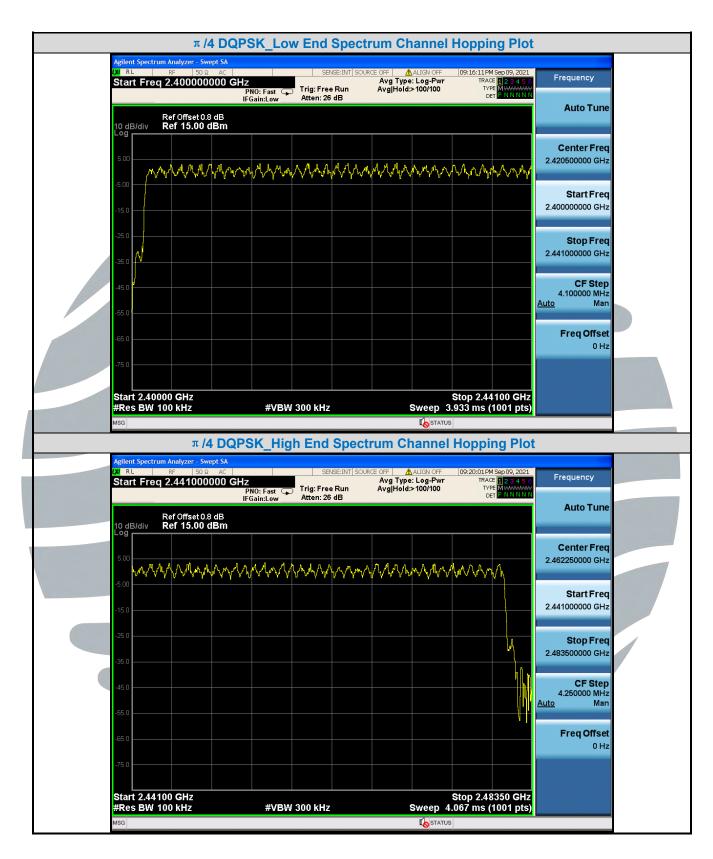
Test Results: Pass

ı	Type of Modulation	Number of Hopping Channel
	GFSK	79
	π /4 DQPSK	79
	8DPSK	79

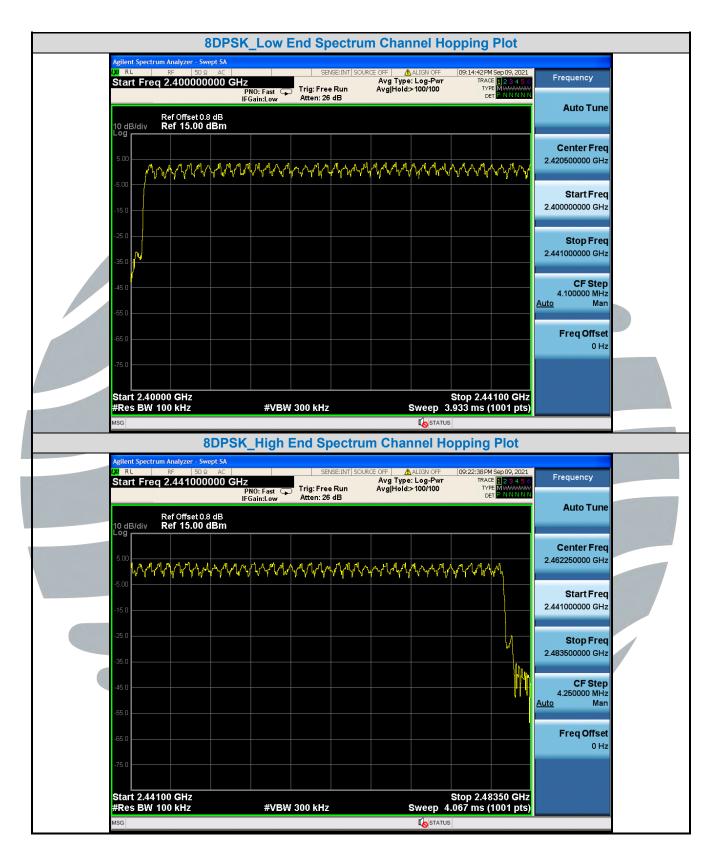












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5.7 DWELL TIME

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247(a)(1)

RSS-247 Issue 2, Section 5.1(d) **Test Method:**ANSI C63.10-2013 Section 7.8.4

Limit: Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15

channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels

employed.

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the

antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

a) Span = zero span, centered on a hopping channel

b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.

- c) Sweep = As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- d) Detector function = peak
- e) Trace = max hold
- f) Use the marker-delta function to determine the dwell time

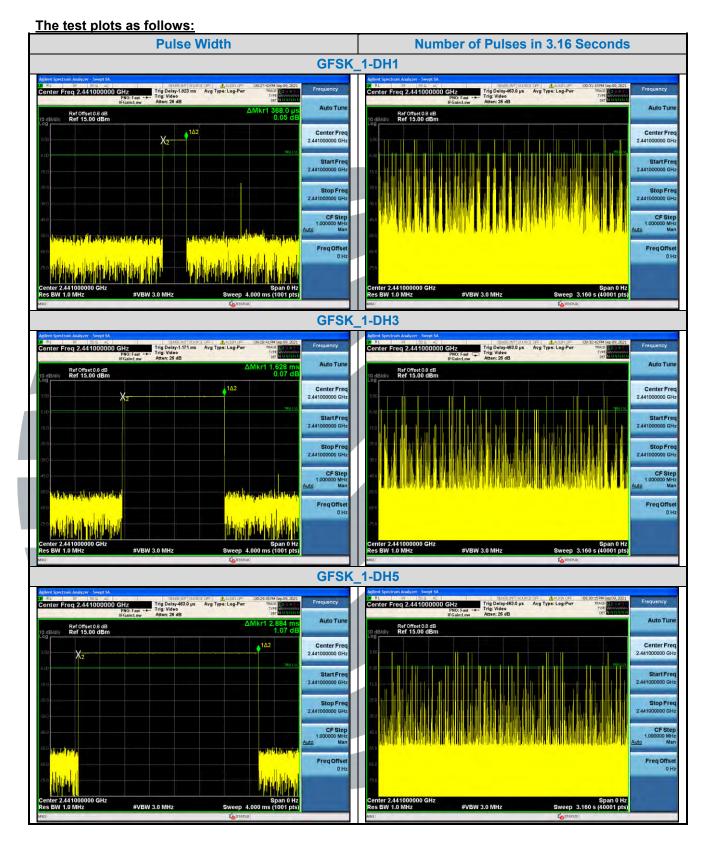
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details. **Instruments Used:** Refer to section 3 for details

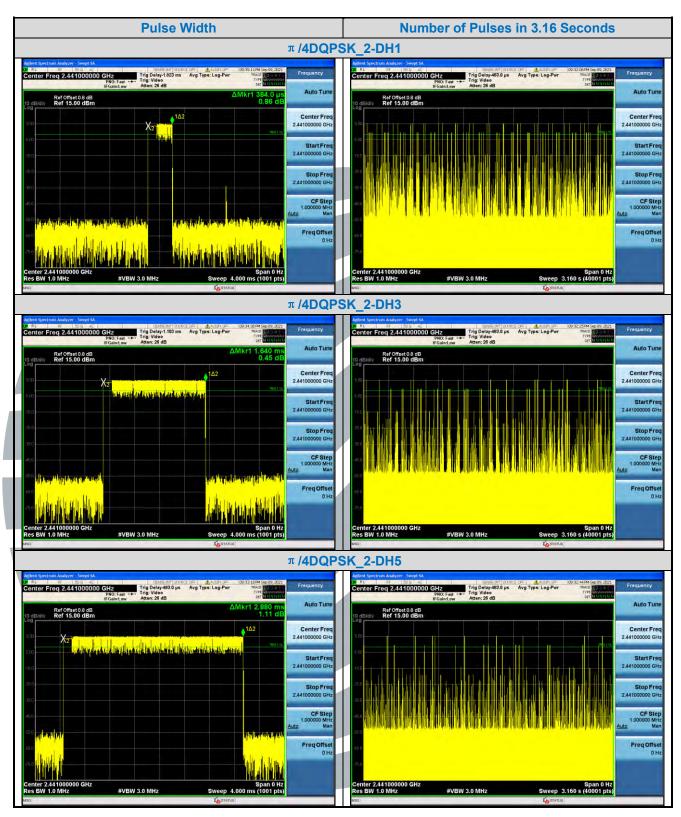
Test Results: Pass

Type of	Test	Packet	Pulse Width	Number of	Dwell Time	Limit
Modulation	Frequency	Packet	ms	Pulses in 3.16 seconds	ms	ms
		1-DH1	0.368	32.000	117.76	< 400
GFSK	2441MHz	1-DH3	1.628	15.000	244.20	< 400
		1-DH5	2.884	13.000	374.92	< 400
	2441MHz	2-DH1	0.384	32.000	122.88	< 400
π/4 DQPSK		2-DH3	1.640	16.000	262.40	< 400
		2-DH5	2.880	9.000	259.20	< 400
		3-DH1	0.384	32.000	122.88	< 400
8DPSK	2441MHz	3-DH3	1.632	16.000	261.12	< 400
		3-DH5	2.888	13.000	375.44	< 400

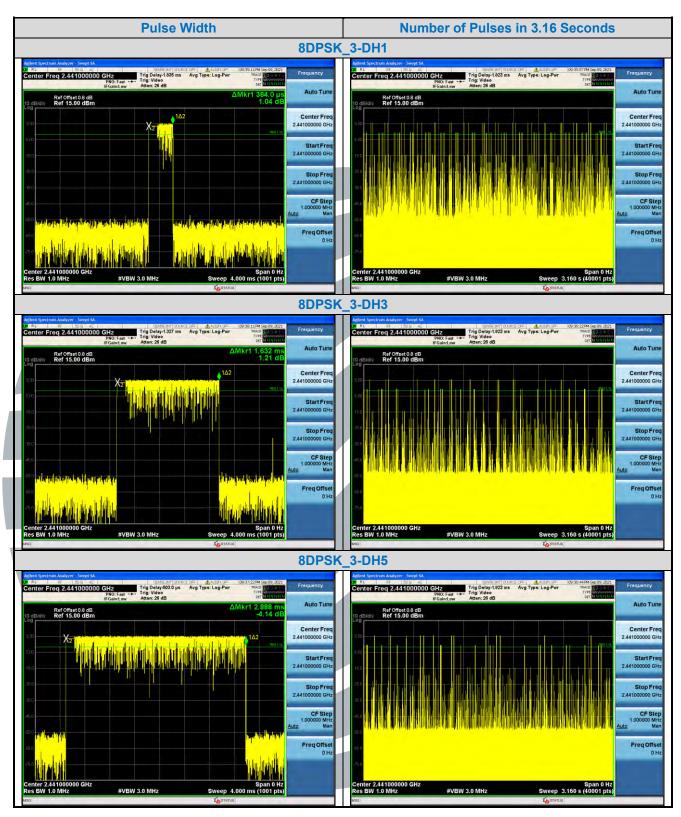














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5.8 CONDUCTED OUT OF BAND EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247(d)

RSS-247 Issue 2, Section 5.5

Test Method: ANSI C63.10-2013 Section 6.10.4 & Section 7.8.8

Limit: In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the

band that contains the highest level of the desired power.

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the

antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

Step 1: Measurement Procedure REF

a) Set instrument center frequency to 2400 MHz or 2483.5 MHz.

- b) Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
- c) Set the RBW = 100 kHz.
- d) Set the VBW $\geq 3 \times RBW$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Sweep points ≥ 2 x Span/RBW
- h) Trace mode = max hold.
- i) Allow the trace to stabilize.
- j) Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission.

Step 2:Measurement Procedure OOBE

- a) Set RBW = 100 kHz.
- b) Set VBW ≥ 300 kHz.
- c) Detector = peak.
- d) Sweep = auto couple.
- e) Trace Mode = max hold.
- f) Allow trace to fully stabilize.
- g) Use the peak marker function to determine the maximum amplitude level.

Note: The cable loss and attenuator loss were offset into measure device as an

amplitude offset.

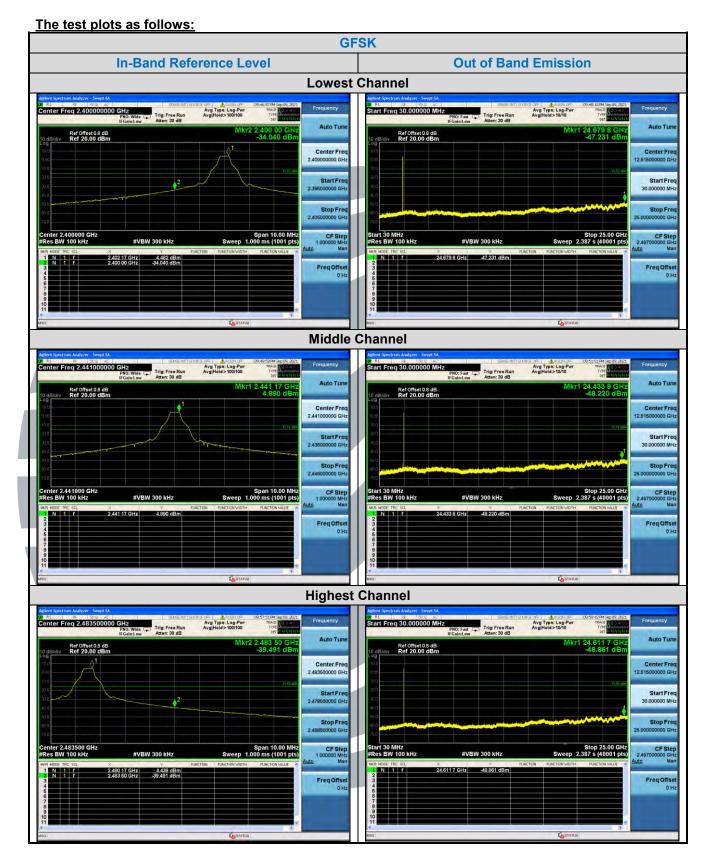
Test Setup: Refer to section 4.5.3 for details. **Instruments Used:** Refer to section 3 for details

Test Mode: Hopping Frequencies Transmitter mode

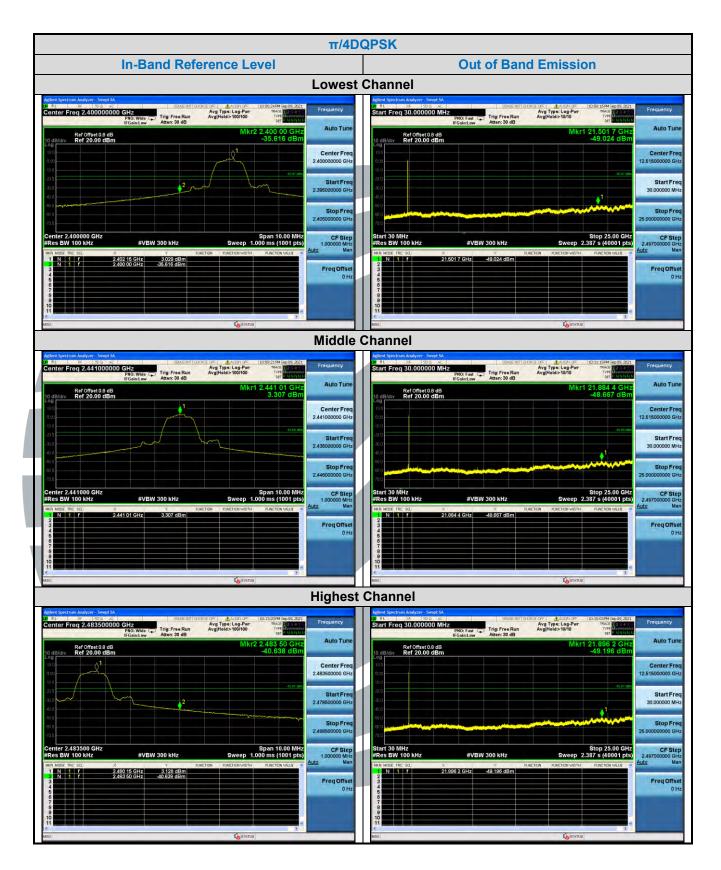
Test Results: Pass

Test Data:

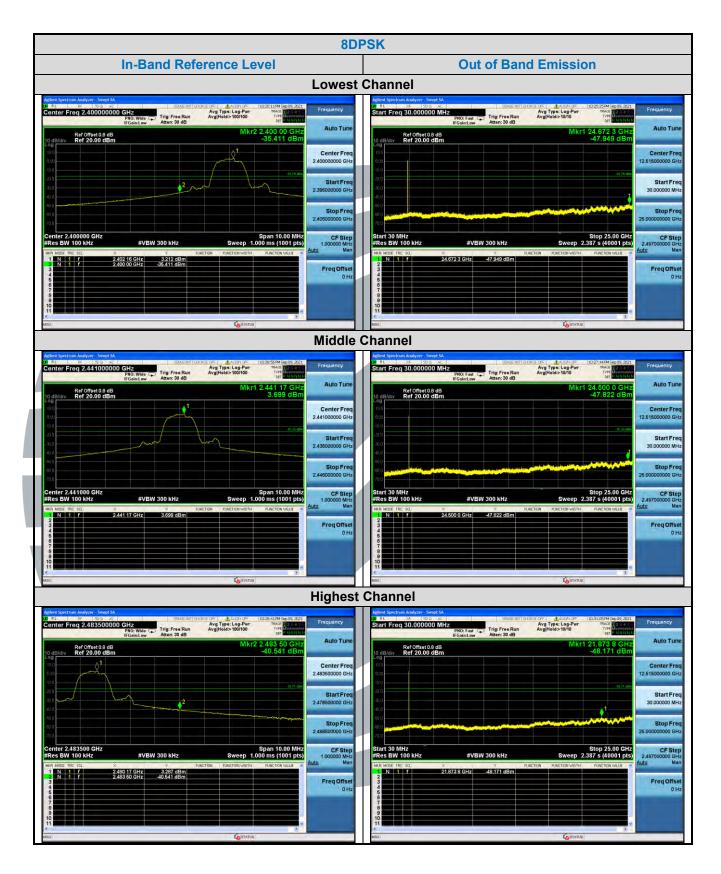


















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5.9 RADIATED SPURIOUS EMISSIONS

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.205/15.209

RSS-Gen Issue 5, Section 6.13/8.9/8.10 **Test Method:** ANSI C63.10-2013 Section 6.3 & 6.5 & 6.6

Receiver Setup:

Frequency	RBW
0.009 MHz-0.150 MHz	200/300 kHz
0.150 MHz -30 MHz	9/10 kHz
30 MHz-1 GHz	100/120 kHz
Above 1 GHz	1 MHz

Limits:

Spurious Emissions

Frequency	Field strength (microvolt/meter)	Limit (dBµV/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	-	-	300
0.490 MHz-1.705 MHz	24000/F(kHz)		-	30
1.705 MHz-30 MHz	30	-	-	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

- 1. The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

- 1. From 30 MHz to 1GHz test procedure as below:
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode
- 6) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- 2. Above 1GHz test procedure as below:
- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).

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- Test the EUT in the lowest channel ,middle channel, the Highest channel
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Y axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.

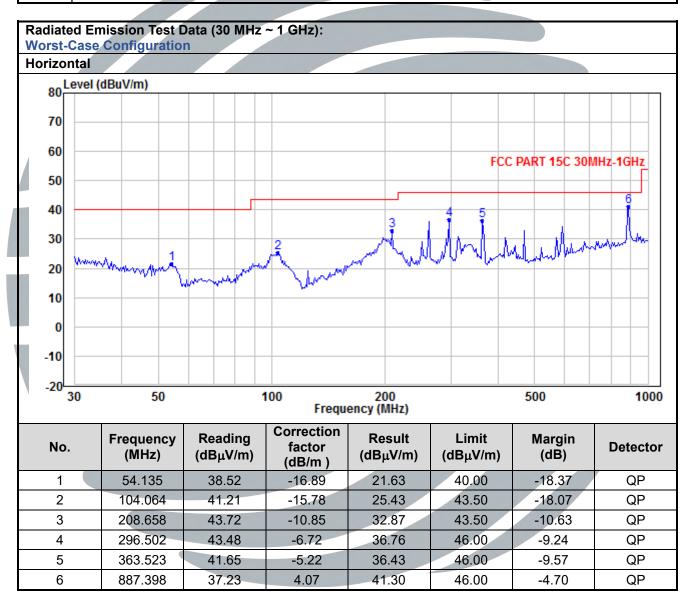
Refer to section 3 for details. **Equipment Used:**

Test Result: Pass

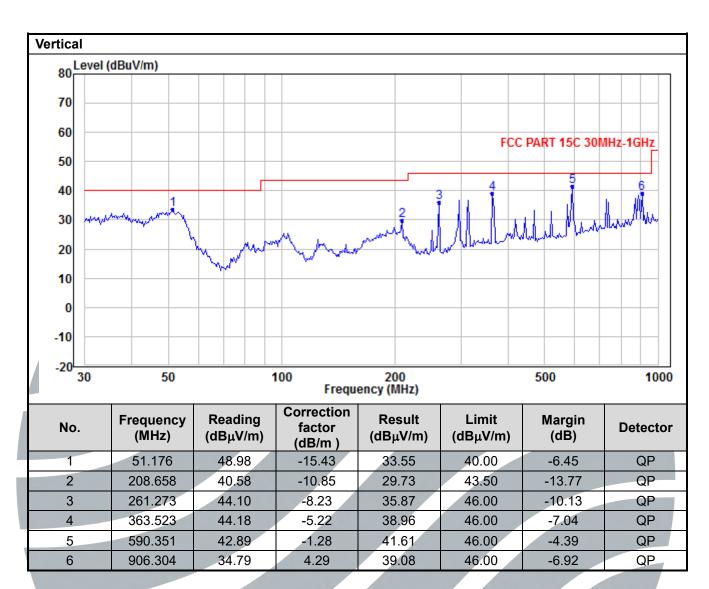
The measurement data as follows:

Radiated Emission Test Data (9 KHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.









Radiated Emission Test Data (Above 1GHz):

Lowest Channel:

No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4804.00	41.60	-2.34	39.26	74.00	-34.74	Peak	Horizontal
2	4804.00	28.99	-2.34	26.65	54.00	-27.35	Average	Horizontal
3	7206.00	41.55	1.43	42.98	74.00	-31.02	Peak	Horizontal
4	7206.00	29.14	1.43	30.57	54.00	-23.43	Average	Horizontal
5	4804.00	41.08	-2.34	38.74	74.00	-35.26	Peak	Vertical
6	4804.00	29.09	-2.34	26.75	54.00	-27.25	Average	Vertical
7	7206.00	43.46	1.43	44.89	74.00	-29.11	Peak	Vertical
8	7206.00	29.14	1.43	30.57	54.00	-23.43	Average	Vertical

Middle Channel:

ᆫ									
	No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
	1	4882.00	41.46	-2.30	39.16	74.00	-34.84	Peak	Horizontal
	2	4882.00	28.42	-2.30	26.12	54.00	-27.88	Average	Horizontal
	3	7323.00	41.66	1.61	43.27	74.00	-30.73	Peak	Horizontal
	4	7323.00	29.37	1.61	30.98	54.00	-23.02	Average	Horizontal
1	5	4882.00	40.89	-2.30	38.59	74.00	-35.41	Peak	Vertical
	6	4882.00	28.42	-2.30	26.12	54.00	-27.88	Average	Vertical
	7	7323.00	41.88	1.61	43.49	74.00	-30.51	Peak	Vertical
	8	7323.00	29.22	1.61	30.83	54.00	-23.17	Average	Vertical

Highest Channel:

	3								
	No.	Frequency (MHz)	Reading (dBµV/m)	Correction factor (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
	1	4960.00	39.48	-2.25	37.23	74.00	-36.77	Peak	Horizontal
\[2	4960.00	26.23	-2.25	23.98	54.00	-30.02	Average	Horizontal
	3	7440.00	41.31	1.81	43.12	74.00	-30.88	Peak	Horizontal
	4	7440.00	28.31	1.81	30.12	54.00	-23.88	Average	Horizontal
	5	4960.00	39.70	-2.25	37.45	74.00	-36.55	Peak	Vertical
	6	4960.00	26.44	-2.25	24.19	54.00	-29.81	Average	Vertical
	7	7440.00	42.90	1.81	44.71	74.00	-29.29	Peak	Vertical
	8	7440.00	28.37	1.81	30.18	54.00	-23.82	Average	Vertical

Remark:

- 1. Correct Factor = Antenna Factor + Cable Loss Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
- 2. Result = Reading + Correct Factor.
- 3. Margin = Result Limit



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5.10 BAND EDGE MEASUREMENTS (RADIATED)

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.205/15.209

RSS-247 Issue 2, Section 5.5 **Test Method:**ANSI C63.10-2013 Section 6.10.5

Limits:

Radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a)

Frequency	Limit (dBµV/m @3m)	Remark	
30 MHz-88 MHz	40.0	Quasi-peak Value	
88 MHz-216 MHz	43.5	Quasi-peak Value	
216 MHz-960 MHz	46.0	Quasi-peak Value	
960 MHz-1 GHz	54.0	Quasi-peak Value	
Above 1 GHz	54.0	Average Value	
	74.0	Peak Value	

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

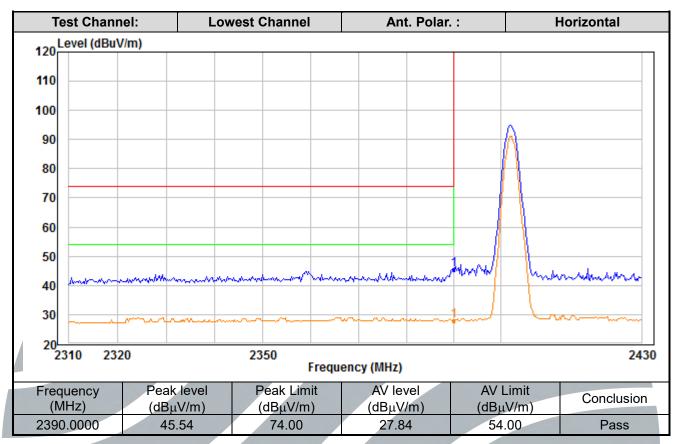
Radiated band edge measurements at 2390 MHz and 2483.5 MHz were made with the unit transmitting in the low end of the channel range and the high end closest to the restricted bands respectively. The emissions were made on the 966 Semi-Chamber. Use (resolution bandwidth (RBW) = 1 MHz, video bandwidth (VBW) = 3 MHz for peak levels and RBW = 1 MHz and VBW = 10 Hz or 1/T for average levels).

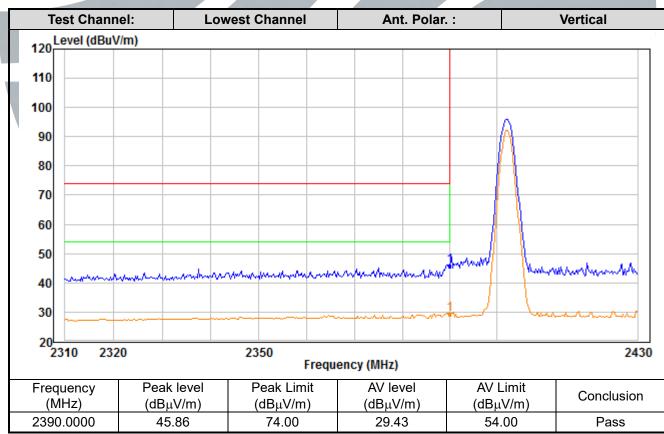
- 1. Use radiated spurious emission test procedure described in clause 5.10. The transmitter output (antenna port) was connected to the test receiver.
- 2. Set the PK and AV limit line.
- 3. Record the fundamental emission and emissions out of the band-edge.
- 4. Determine band-edge compliance as required. **Equipment Used:** Refer to section 3 for details.

Test Result: Pass

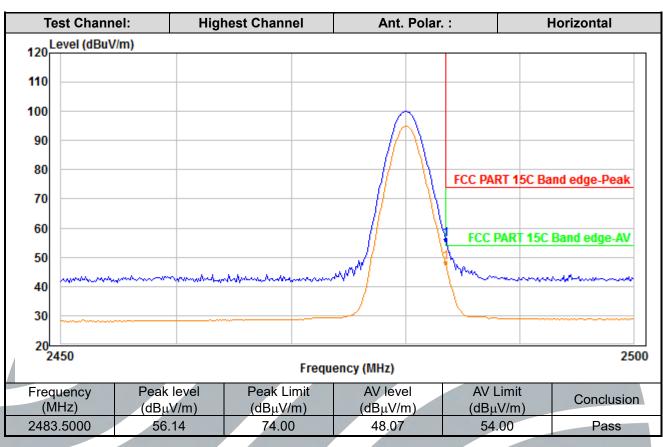
The measurement data as follows:

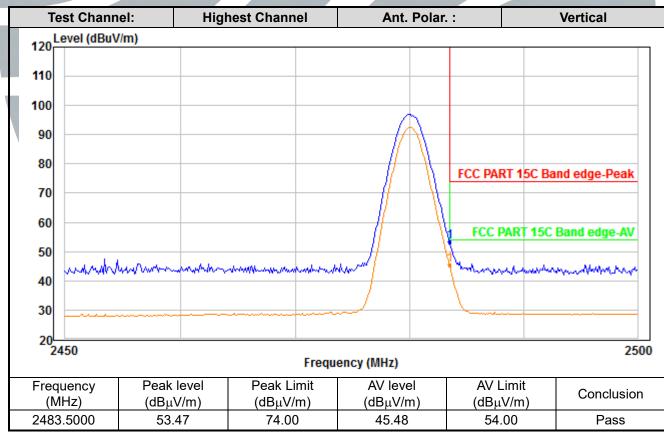














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5.11 CONDUCTED EMISSION

Test Requirement: 47 CFR Part 15C Section 15.207 RSS-Gen Issue 5, Section 8.8 ANSI C63.10-2013 Section 6.2

Limits:

Frequency range	Limits (dB(μV)				
(MHz)	Quasi-peak	Average			
0,15 to 0,50	66 to 56	56 to 46			
0,50 to 5	56	46			
5 to 30	60	50			

Remark:

- The lower limit shall apply at the transition frequencies.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

Test Setup: Refer to section 4.5.2 for details.

Test Procedures:

Test frequency range: 150KHz-30MHz

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Equipment Used: Refer to section 3 for details.

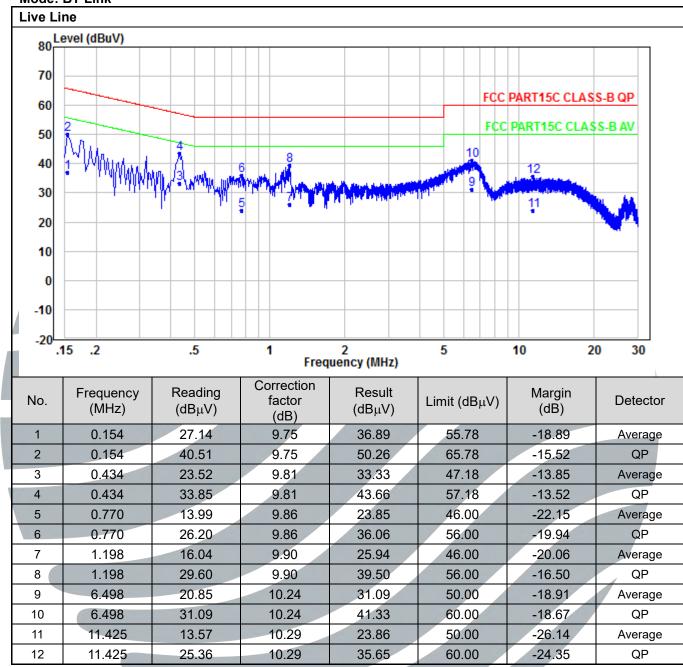
Test Result: Pass



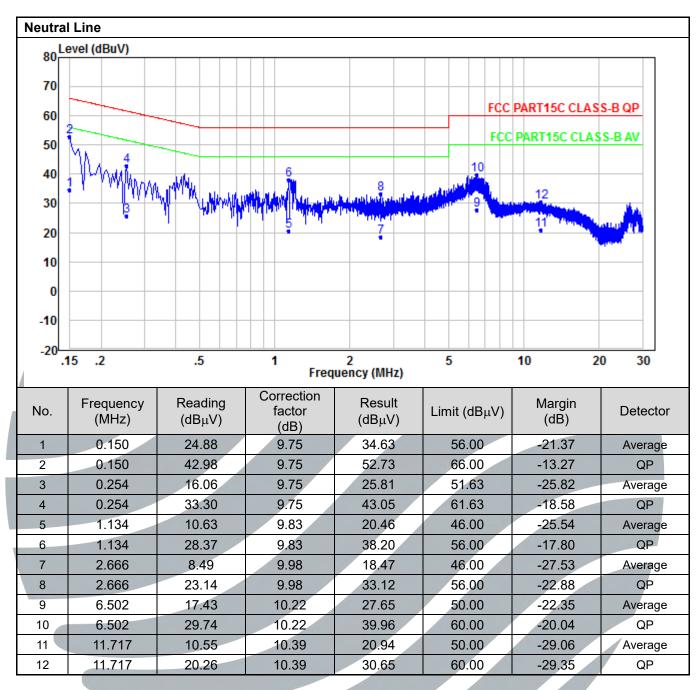
The measurement data as follows:

Quasi Peak and Average:

Mode: BT Link







Remark:

- 1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
- 2. Result = Reading + Correct Factor.
- 3. Margin = Result Limit
- 4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.
- 5. All possible modes of operation were investigated, and testing at two nominal voltages of 240V/50Hz and 120V/60Hz, only the worst case emissions reported.



APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

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APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

