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Report No.: 170615002RFC-2

TEST REPORT

Product Name: WIFI+BT Module

Trade Mark: GSD

Model No.: WCT6LA2701

Report Number: 170615002RFC-2

Test Standards: FCC 47 CFR Part 15 Subpart C

RSS-247 Issue 2 RSS-Gen Issue 4

FCC ID: 2AC23-WCT6LA2701

IC: 12290A-WCT6LA2701

Test Result: PASS

Date of Issue: July 10, 2017

Prepared for:

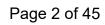
Hui Zhou Gaoshengda Technology Co.,LTD NO.75 Zhongkai Development Area, Huizhou, Guangdong, China

Prepared by:

Shenzhen UnionTrust Quality and Technology Co., Ltd. 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

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Tested by:	Kevin Liang	Reviewed by:	Jim Long
	Senior Engineer		Senior Supervisor
Approved by:		Date:	July 10, 2017
	Billy Li Technical Director		





Version

Version No.	Date	Description
V1.0	July 10, 2017	Original





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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant: Hui Zhou Gaoshengda Technology Co.,LTD	
Address of Applicant: NO.75 Zhongkai Development Area, Huizhou, Guangdong, China	
Manufacturer:	Hui Zhou Gaoshengda Technology Co.,LTD
Address of Manufacturer:	NO.75 Zhongkai Development Area, Huizhou, Guangdong, China

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Cheral Description of Lot						
Product Name:	WIFI+BT Module					
Model No.:	WCT6LA2701	WCT6LA2701				
Add. Model No.:	N/A					
Trade Mark:	GSD					
DUT Stage:	Identical Prototype					
	2.4 GHz ISM Band:	IEEE 802.11b/g/n				
	2.4 GHZ ISIVI Daliu.	Bluetooth: V3.0+EDR & V4.1 LE				
EUT Supports Function:	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac			
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac			
Software Version:	N/A					
Hardware Version:	94V-0					
Sample Received Date:	June 20, 2017					
Sample Tested Date:	June 20, 2017 to July 10, 2017					

1.2.2 Description of Accessories

None.

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Range:	2400 MHz to 2483.5 MHz
Bluetooth Version:	Bluetooth V3.0+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:	PIFA Antenna
Antenna Gain:	1.72 dBi
Maximum Peak Power:	8.07 dBm
Normal Test Voltage:	3.3 Vdc

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1.4 OTHER INFORMATION

Operation Frequency Each of Channel							
Channal							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402 MHz	20	2422 MHz	40	2442 MHz	60	2462 MHz
1	2403 MHz	21	2423 MHz	41	2443 MHz	61	2463 MHz
2	2404 MHz	22	2424 MHz	42	2444 MHz	62	2464 MHz
3	2405 MHz	23	2425 MHz	43	2445 MHz	63	2465 MHz
4	2406 MHz	24	2426 MHz	44	2446 MHz	64	2466 MHz
5	2407 MHz	25	2427 MHz	45	2447 MHz	65	2467 MHz
6	2408 MHz	26	2428 MHz	46	2448 MHz	66	2468 MHz
7	2409 MHz	27	2429 MHz	47	2449 MHz	67	2469 MHz
8	2410 MHz	28	2430 MHz	48	2450 MHz	68	2470 MHz
9	2411 MHz	29	2431 MHz	49	2451 MHz	69	2471 MHz
10	2412 MHz	30	2432 MHz	50	2452 MHz	70	2472 MHz
11	2413 MHz	31	2433 MHz	51	2453 MHz	71	2473 MHz
12	2414 MHz	32	2434 MHz	52	2454 MHz	72	2474 MHz
13	2415 MHz	33	2435 MHz	53	2455 MHz	73	2475 MHz
14	2416 MHz	34	2436 MHz	54	2456 MHz	74	2476 MHz
15	2417 MHz	35	2437 MHz	55	2457 MHz	75	2477 MHz
16	2418 MHz	36	2438 MHz	56	2458 MHz	76	2478 MHz
17	2419 MHz	37	2439 MHz	57	2459 MHz	77	2479 MHz
18	2420 MHz	38	2440 MHz	58	2460 MHz	78	2480 MHz
19	2421 MHz	39	2441 MHz	59	2461 MHz	N	l/A

Modulation Configure					
Modulation	Packet	Packet Type	Packet Size		
	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		

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	E450	SL10G10780	UnionTrust
		-	-	

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable * 2	SMA	0.30 Meter	UnionTrust
2	USB Cable	USB	0.80 Meter	UnionTrust

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1.6 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua

New District, Shenzhen, China 518109 Telephone: +86 (0) 755 2823 0888 Fax: +86 (0) 755 2823 0886

Tests were sub-contracted.

Compliance Certification Services (Shenzhen) Inc.

Address: No.10-1 Mingkeda Logistics Park, No.18 Huanguan South RD. Guan Ian Town, Baoan Distr,

Shenzhen, Guangdong, China.

Telephone: +86 (0) 755 28055000 Fax: +86 (0) 755 29055221

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/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

IC-Registration No.: 21600-1

The 3m Semi-anechoic chamber of Shenzhen UnionTrust Quality and Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 21600-1.

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: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Compliance Certification Services (Shenzhen) Inc.

FCC Registration Number is 441872. IC Registration Number is 2324I-2.

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

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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	±3.2878 dB
2	Conducted emission 150KHz-30MHz	±3.2878 dB
3	Radiated emission 30MHz-200Hz	±3.8928 dB
4	Radiated emission 200MHz-1GHz	±3.8753 dB
5	Radiated emission 1GHz-8GHz	±5.3112 dB
6	Radiated emission Above 8GHz	±5.3493 dB



2. TEST SUMMARY

	FCC 47 CFR Part 15 Subpart C Test Cases					
Test Item	Test Requirement	Test Method	Result			
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203/15.247 (c) ANSI C63.10-2013 RSS-Gen Issue 4, Section 8.3		PASS			
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart C Section 15.207 RSS-Gen Issue 4, Section 8.8	ANSI C63.10-2013	N/A NOTE 2			
Conducted Peak Output Power	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(1) RSS-247 Issue 2, Section 5.4(b)	DA 00-705	PASS			
20 dB Bandwidth	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1) RSS-247 Issue 2, Section 5.1(a)	DA 00-705	PASS			
Occupied Bandwidth	RSS-Gen section 6.6	RSS-Gen section 6.6	PASS			
Carrier Frequencies Separation	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1) RSS-247 Issue 2, Section 5.1(b)	DA 00-705	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)	DA 00-705	PASS			
Dwell Time	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1) RSS-247 Issue 2, Section 5.1(d)	DA 00-705	PASS			
Pseudorandom Frequency Hopping Sequence	FCC 47 CFR Part 15 Subpart C Section 15.247(a)(1)(g)(h) RSS-247 Issue 2, Section 5.1	DA 00-705	PASS			
Conducted Out of Band Emission	Conducted Out of FCC 47 CFR Part 15 Subpart C Section		PASS			
Radiated Emissions	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209 RSS-Gen Issue 4, Section 6.13/8.9/8.10	DA 00-705	PASS*			
Band Edge Measurement	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209 RSS-247 Issue 2, Section 5.5	DA 00-705	PASS*			

Note:

- 1) N/A: In this whole report not application.
- 2) This EUT is powered by DC.
- 3) "*": In this whole report "*" means tests were sub-contracted Item.



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)			
>	PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	Feb. 17, 2017	Feb. 16, 2018			
>	High Noise Amplifier	Agilent	8449B	3008A01838	Feb. 11, 2017	Feb. 10, 2018			
>	Amplifier	HP	8447D	2944A08999	Feb. 12, 2017	Feb. 11, 2018			
~	Antenna	SCHAFFNER	CBL6143	5082	Feb. 12, 2017	Feb. 11, 2018			
>	Horn Antenna	SCHWARZBEC K	BBHA9120	D286	Feb. 12, 2017	Feb. 11, 2018			
>	Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	Feb. 11, 2017	Feb. 10, 2018			
>	Turn Table	N/A	N/A	N/A	N.C.R	N.C.R			
~	Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R			
~	Controller	СТ	N/A	N/A	N.C.R	N.C.R			
~	Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R			
>	Temp. / Humidity Meter	Anymetre	JR913	N/A	Feb. 15, 2017	Feb. 14, 2018			

		Conducted RF test Equipment List								
1	Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)			
	<u><</u>	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	Dec. 22, 2016	Dec. 22, 2017			
		Receiver	R&S	ESR7	1316.3003K07 -101181-K3	Dec. 22, 2016	Dec. 22, 2017			
	>	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	Dec. 22, 2016	Dec. 22, 2017			
		USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430023	Dec. 22, 2016	Dec. 22, 2017			

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4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 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	3.3	20 to 75				
Remark: 1) NV: Normal Voltage; N	200.0						

4.1.2 Record of Normal Environment

11.2 Rosera of Roman Environment								
Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (Kpa)	Tested by				
AC Power Line Conducted Emission	N/A	N/A	N/A	N/A				
Conducted Peak Output Power	24.7	49	100.3	Tiny You				
20 dB Bandwidth & Occupied Bandwidth	25.5	46	100.2	Tiny You				
Carrier Frequencies Separation	25.5	46	100.2	Tiny You				
Number of Hopping Channel	25.5	46	100.2	Tiny You				
Dwell Time	25.5	46	100.2	Tiny You				
Conducted Out of Band Emission	25.5	46	100.2	Tiny You				
Radiated Emissions	25.2	54	99.94	Tiny You				
Band Edge Measurement	25.2	54	99.94	Tiny You				

4.2TEST CHANNELS

THE ST STIPLINE		T/	est RF Channel Lis	te		
Mode	Tx/Rx Frequency	Test RF Channel Lists				
Mode	12/10x 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 IVITZ (0 2400 IVITZ	2402 MHz	2441 MHz	2480 MHz		

4.3 EUT TEST STATUS

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

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4.4 PRE-SCAN

4.4.1 Pre-scan under all packets at middle channel

Conducted Average Power (dBm) for packets									
Type of Modulation	GFSK			π/4DQPSK			8DPSK		
Packets	1-DH1	1-DH3	1-DH5	2-DH1	2-DH3	2-DH5	3-DH1	3-DH3	3-DH5
Power (dBm)	6.75	6.72	6.79	7.65	7.75	7.91	7.58	7.29	7.65

4.4.2 Worst-case data packets

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

4.4.3 Tested channel detail

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.

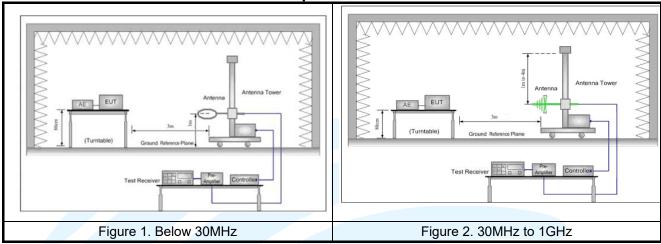
Type of Modulation		GFSK			r/4DQPS	K		8DPSK	
Data Packets	1- DH1	1- DH3	1- DH5	2- DH1	2- DH3	2- DH5	3- DH1	3- DH3	3- DH5
Available Channel					0 to 78				
Test Item			Test cha	nnel and	d choose	of data	packets	i	
AC Power Line Conducted			Frequ	uency Ho	opping Cl	nannel 0	to 78		
Emission					Link				
Conducted Peak Output				Chanr	nel 0 & 39	9 & 78			
Power			>			>			V
20 dB Bandwidth				Chanr	nel 0 & 39	9 & 78			
20 db Baildwidtii			>			>			~
Carrier Frequencies		Frequency Hopping Channel 0 to 78							
Separation			<			>			~
Number of Henring Channel	Frequency Hopping Channel 0 to 78								
Number of Hopping Channel			<						~
Dwell Time	Channel 0 & 39 & 78								
Dwell Time	V	<u><</u>	<	V	~	>	>	<	~
Conducted Out of Band				Chanr	nel 0 & 39	9 & 78			
Emission			<			<			~
Dedicted Emissions				Chanr	nel 0 & 39	9 & 78			
Radiated Emissions						>			
Band Edge Measurements				Cha	annel 0 &	78			
(Radiated)						~			
Remark:									
1. The mark " means is cho		_							
2. The mark " neans is not chosen for testing.									

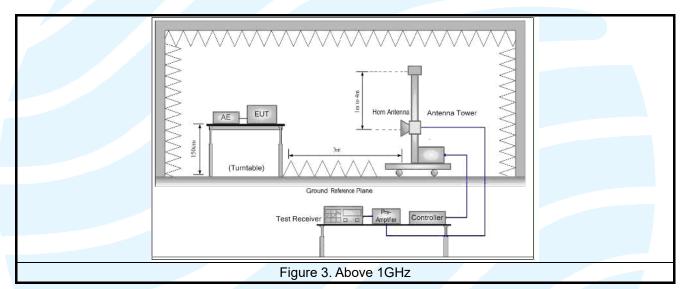
Shenzhen UnionTrust Quality and Technology Co., Ltd.



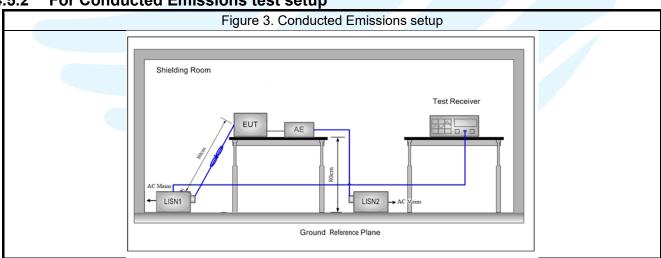
4.5 TEST SETUP

4.5.1 For Radiated Emissions test setup



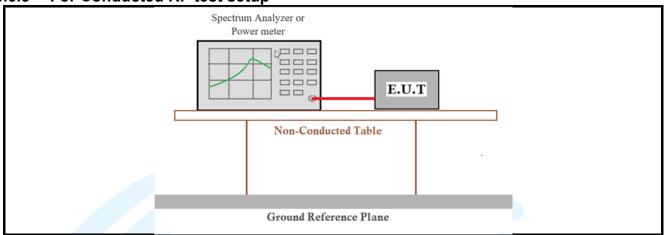


4.5.2 For Conducted Emissions test setup



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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. It was powered by a 3.3Vdc. 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	Z 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.

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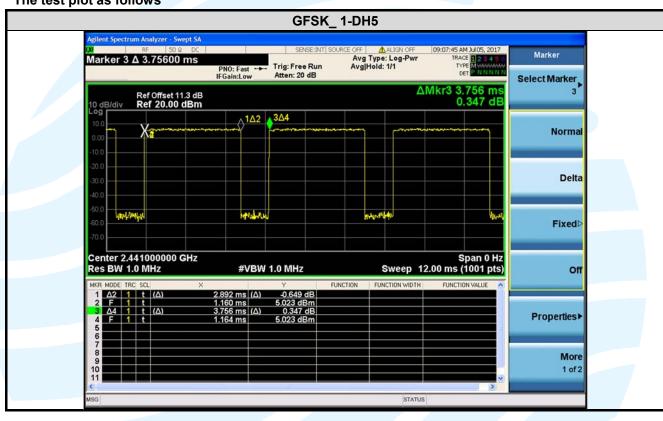
4.7 DUTY CYCLE

Type of Modulation	Packets	On Time (msec)	Period (msec)	Duty Cycle (linear)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/ T Minimum VBW (kHz)	Average Factor (dB)
GFSK	1-DH5	2.892	3.766	0.77	76.79	1.15	0.35	-2.29

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 4	General Requirements for Compliance of Radio Apparatus
5	ANSI C63.10-2013	American National Standard for Testing Unlicesed Wireless Devices
6	FCC Public Notice DA 00-705	Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems

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 4, Section 8.3 requirement:

According to RSS-Gen Issue 4, section 8.3, 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 1.72 dBi.



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5.3 PSEUDORANDOM FREQUENCY HOPPING SEQUENCE

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

RSS-247 Issue 2, Section 5.1

Test Method: DA 00-705 **Frequency Hopping System:**

This transmitter device is frequency hopping device, and complies with FCC part 15.247 and RSS-247 Issue 2 rule.

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

EUT Pseudorandom Frequency Hopping Sequence:

Pseudorandom Frequency Hopping Sequence Table as below:

Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45 etc.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.



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5.4 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: DA 00-705

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:**a) Remove the antenna from the second secon

a) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

b) Measure out each test modes' peak or average output power, record the power

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: Transmitter mode

Test Results: Pass

Test Data:

For maximum peak conducted output power

Type of	Peak Output Power (dBm)			Peak Output Power (mW)		
Modulation	Channel 0	Channel 39	Channel 78	Channel 0	Channel 39	Channel 78
GFSK	6.05	6.79	7.00	4.03	4.78	5.01
π/4 DQPSK	7.17	7.91	8.07	5.21	6.18	6.41
8DPSK	6.63	7.43	7.65	4.60	5.53	5.82
Limit (mW)	1000					
Pass/Fail			Pa	ss		

Note: The antenna gain of 1.72 dBi less than 6dBi maximum permission antenna gain value based on 1 watt peak output power limit.

For maximum e.i.r.p.

Type of	e.i.r.p (dBm)			e.i.r.p (mW)		
Modulation	Channel 0	Channel 39	Channel 78	Channel 0	Channel 39	Channel 78
GFSK	7.77	8.51	8.72	5.98	7.10	7.45
π/4 DQPSK	8.89	9.63	9.79	7.74	9.18	9.53
8DPSK	8.35	9.15	9.37	6.84	8.22	8.65
Limit (mW)	4000					
Pass/Fail			Pa	ss		

Note: e.i.r.p = maximum peak conducted output power + antenna gain



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5.520 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 6.6

Test Method: DA 00-705

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 3 times the 20 dB bandwidth, centered on a hopping channel

- b) RBW ≥ 1% of the 20 dB bandwidth
- c) VBW ≥ 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 Mode: Transmitter mode

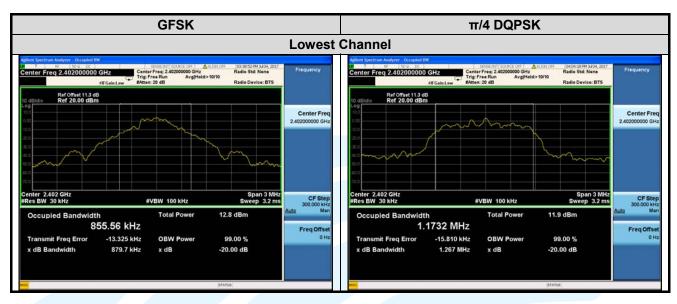
Test Results: Pass

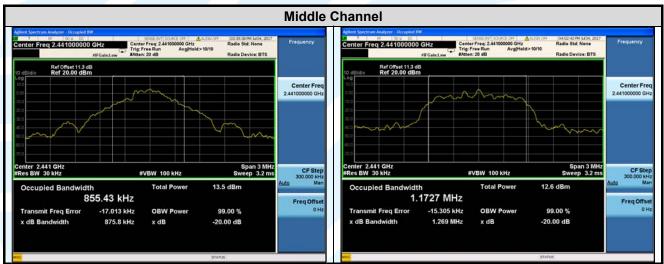
Test Data:

Type of	20 dB Bandwidth (MHz)			Occupied Bandwidth (MHz)		
Modulation	Channel 0	Channel 39	Channel 78	Channel 0	Channel 39	Channel 78
GFSK	0.8797	0.8758	0.8760	0.85556	0.85543	0.86021
π/4 DQPSK	1.267	1.269	1.273	1.1732	1.1727	1.1747
8DPSK	1.226	1.225	1.224	1.1492	1.1511	1.1508



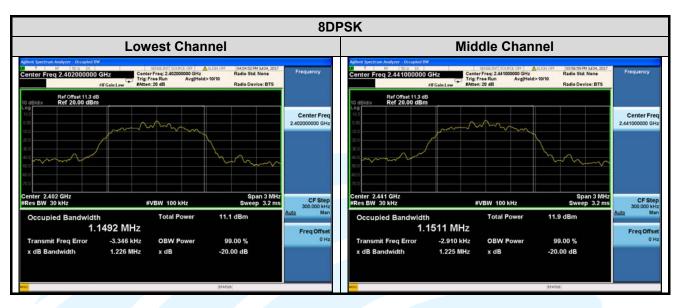
The test plot as follows:















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5.6 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: DA 00-705

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) Set span = wide enough to capture the peaks of two adjacent channels

b) Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span

c) Video (or Average) Bandwidth (VBW) ≥ RBW

d) Sweep = auto;

e) Detector function = peak;

f) Trace = max hold

g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section. Submit this plot.

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

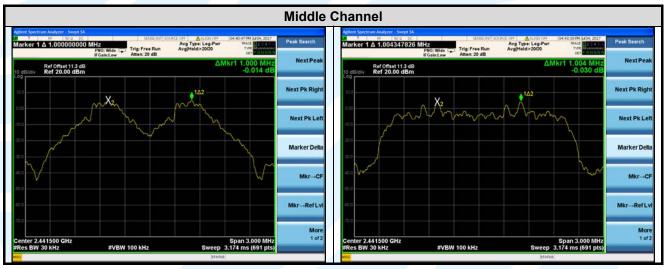
Test Data:

Type of	Adjacent Channel Separation (MHz)			Minimum Limit (MHz)			
Modulation	Channel 0	Channel 39	Channel 78	Channel 0	Channel 39	Channel 78	
GFSK	0.996	1.000	1.000	0.5865	0.5839	0.5840	
π/4 DQPSK	1.000	1.004	0.996	0.8447	0.8460	0.8487	
8DPSK 1.004 1.004 1.000 0.8173 0.8167 0.8160						0.8160	
Note: The mir	Note: The minimum limit is two-third 20 dB bandwidth.						



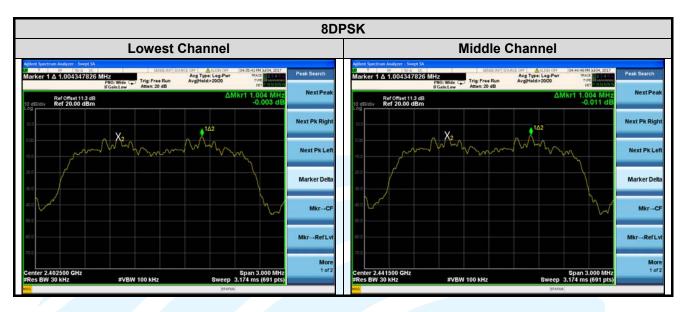
The test plot as follows:















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5.7 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:
DA 00-705

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

b) RBW ≥ 1% of the span

c) VBW ≥ RBW

d) Sweep = auto

e) Detector function = peak

f) Trace mode = max hold

g) Allow the trace to stabilize, observed the band of 2400MHz to 2483.5MHz, than

count it out the number of channels for comparing with the FCC rules.

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

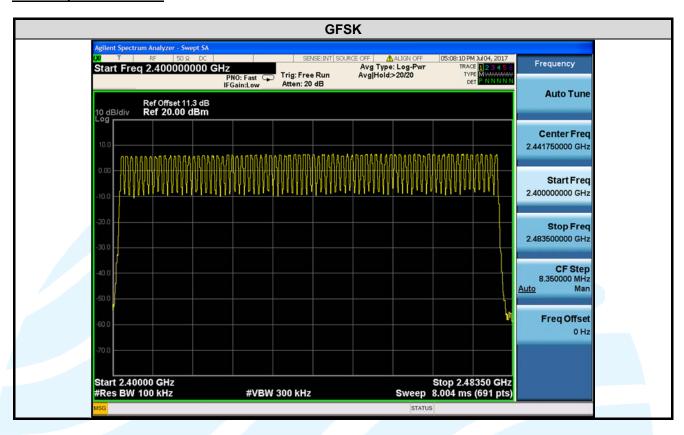
Test Results: Pass

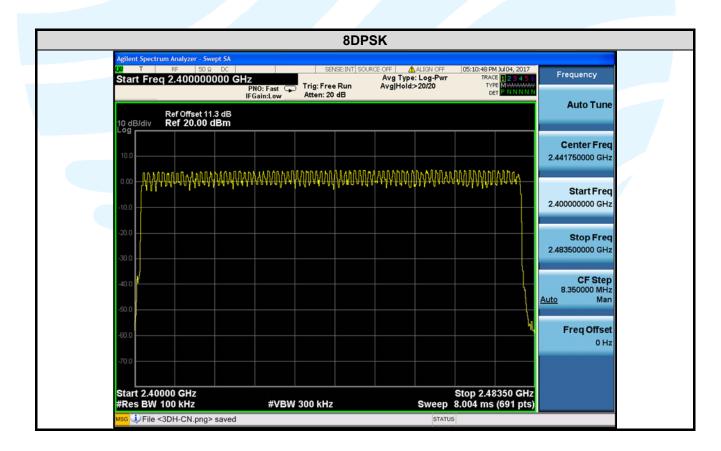
Test Data:

Type of Modulation	Number of Hopping Channel		
GFSK	79		
8DPSK	79		



The test plot as follows:







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5.8 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: DA 00-705

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 = 1 MHz

c) VBW ≥ RBW

d) Sweep = as necessary to capture the entire dwell time per hopping channel

e) Detector function = peak

f) Trace = max hold

g) 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 Mode: Hopping Frequencies Transmitter mode

Test Results: Pass

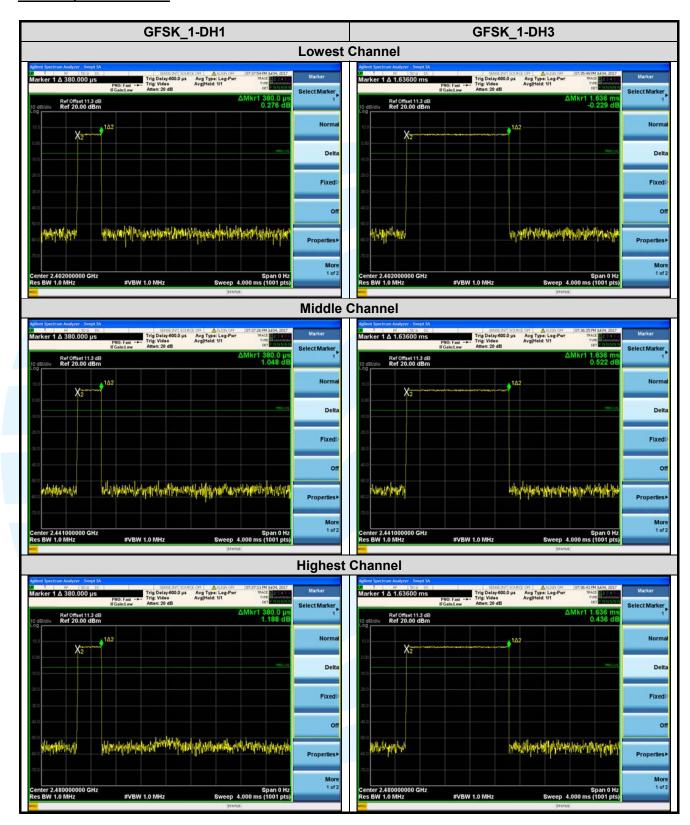
Test Data:



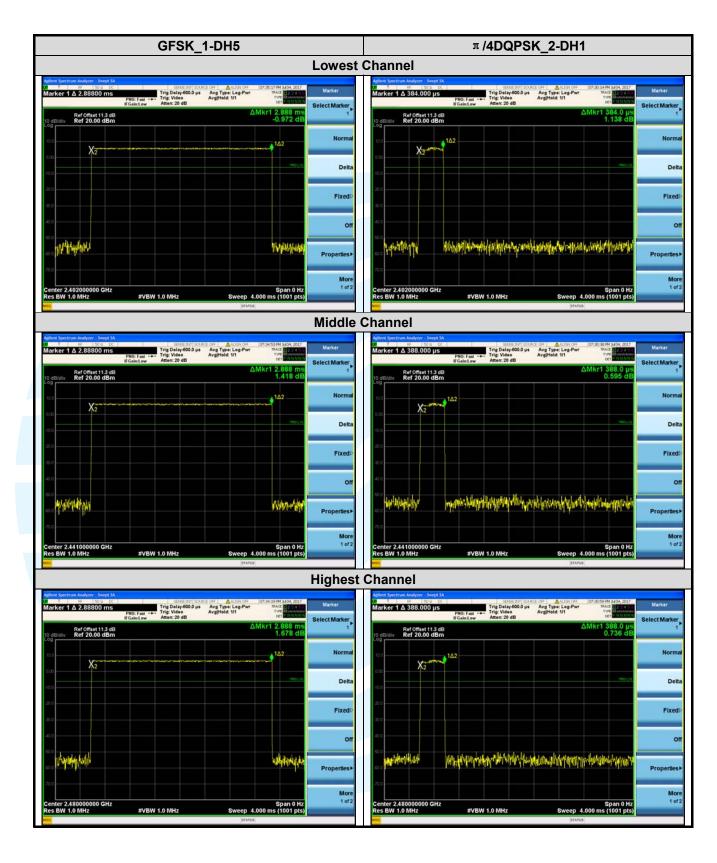
Towns of Mandadation	T4 F	Dooloof	Time Slot Length	Dwell Time	Limit
Type of Modulation	rest Frequency	Packet	ms	ms	ms
		1-DH1	0.380	121.60	< 400
	2402MHz	1-DH3	0.380	121.60	< 400
		1-DH5	0.380	121.60	< 400
		1-DH1	1.636	261.76	< 400
GFSK	2441MHz	1-DH3	1.636	261.76	< 400
		1-DH5	1.636	261.76	< 400
		1-DH1	2.888	308.05	< 400
	2480MHz	1-DH3	2.888	308.05	< 400
		1-DH5	2.888	308.05	< 400
Type of Modulation	Test Frequency	Packet	Time Slot Length	Dwell Time	Limit
Type of Modulation	restriequency	racket	ms	ms	ms
		3-DH1	0.388	124.16	< 400
	2402MHz	3-DH3	0.388	124.16	< 400
		3-DH5	0.388	124.16	< 400
	2441MHz	3-DH1	1.640	262.40	< 400
π/4DQPSK		3-DH3	1.636	261.76	< 400
		3-DH5	1.636	261.76	< 400
	2480MHz	3-DH1	2.888	308.05	< 400
		3-DH3	2.888	308.05	< 400
		3-DH5	2.888	308.05	< 400
Type of Modulation	Test Frequency	Packet	Time Slot Length	Dwell Time	Limit
Type of Modulation	rest Frequency	Facket	ms	ms	ms
		3-DH1	0.388	124.16	< 400
	2402MHz	3-DH3	0.388	124.16	< 400
8DPSK		3-DH5	0.388	124.16	< 400
		3-DH1	1.640	262.40	< 400
	2441MHz	3-DH3	1.636	261.76	< 400
		3-DH5	1.636	261.76	< 400
		3-DH1	2.888	308.05	< 400
	2480MHz	3-DH3	2.888	308.05	< 400
		3-DH5	2.888	308.05	< 400



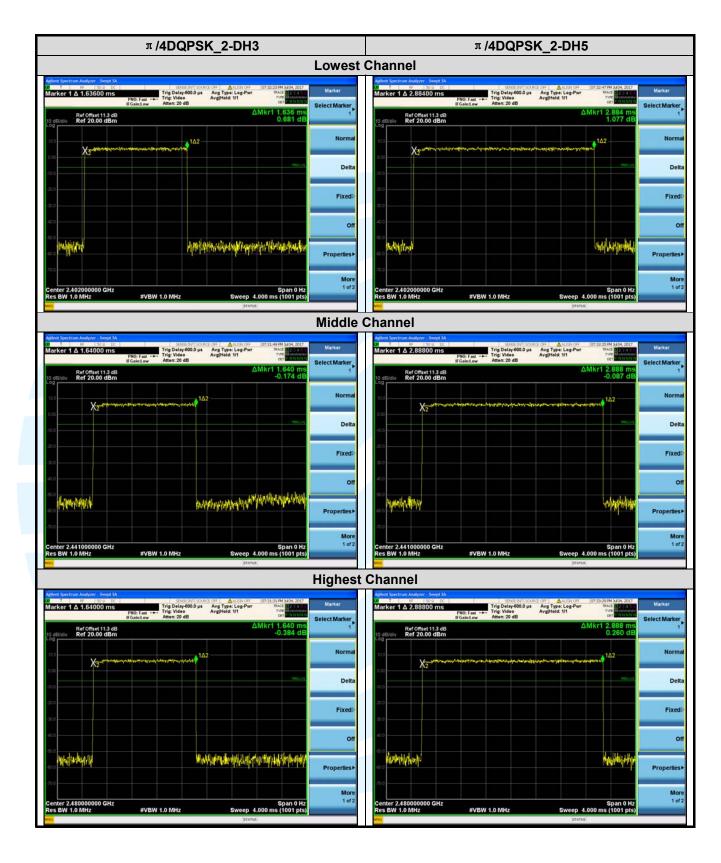
The test plot as follows:



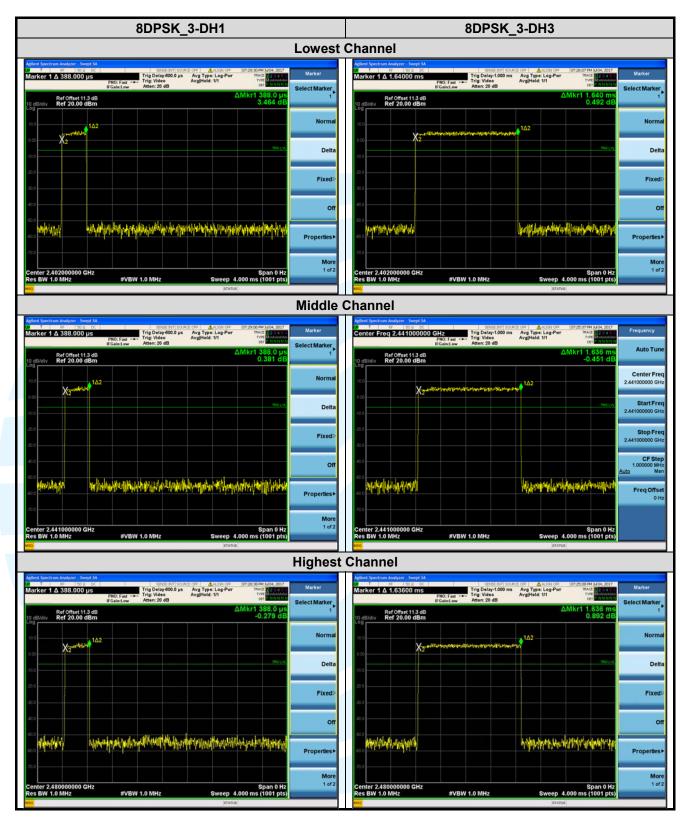




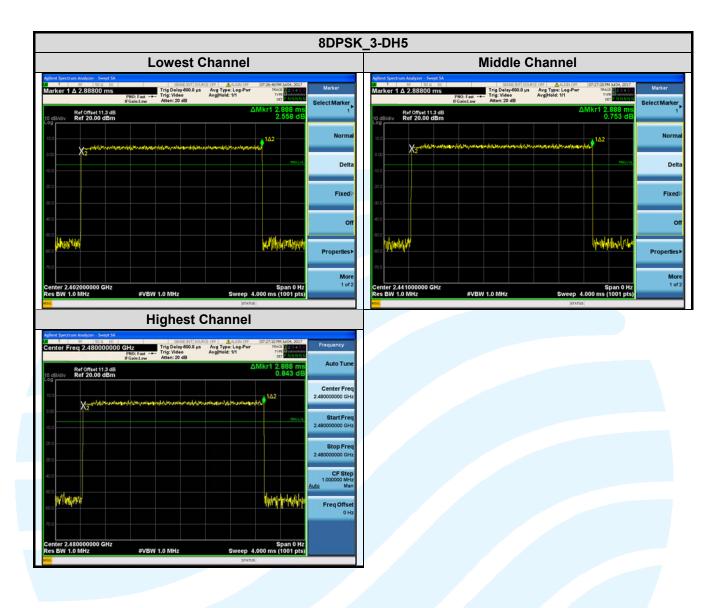














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5.9 CONDUCTED OUT OF BAND EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247(d) RSS-247 Issue 2, Section 5.5

Test Method: DA 00-705

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.

Step 1: Reference level measurement

h) Set instrument center frequency to DTS channel center frequency.

i) Set the span to ≥ 1.5 times the DTS bandwidth.

j) Set the RBW = 100 kHz.

k) Set the VBW \geq 3 x RBW.

I) Detector = peak.

m) Sweep time = auto couple.

n) Trace mode = max hold.

o) Allow trace to fully stabilize.

p) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Step 2: Emission level measurement

a) Set RBW = 1 MHz.

b) Set VBW ≥ 3 MHz.

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

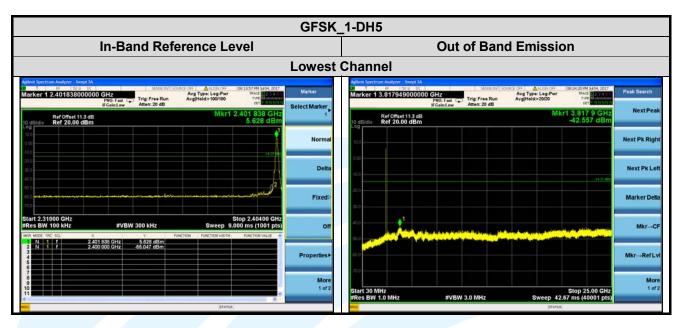
Test Mode: Hopping Frequencies Transmitter mode

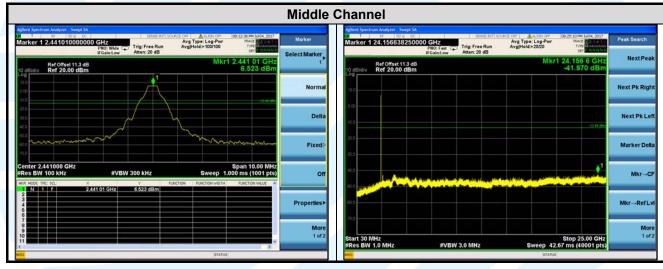
Test Results: Pass

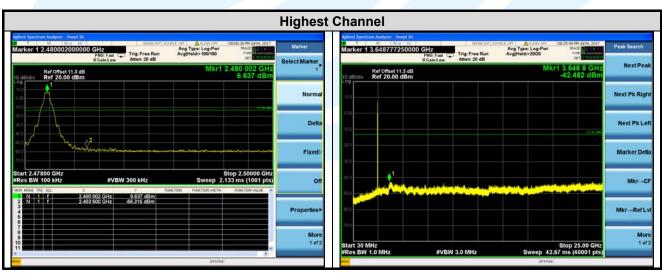
Test Data:



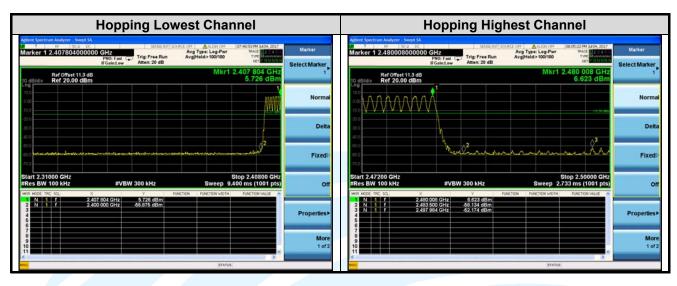
The test plot as follows:

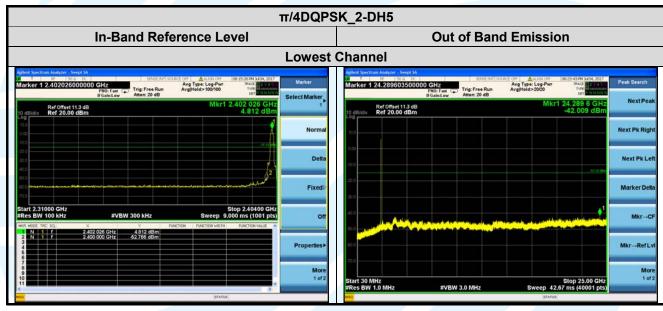


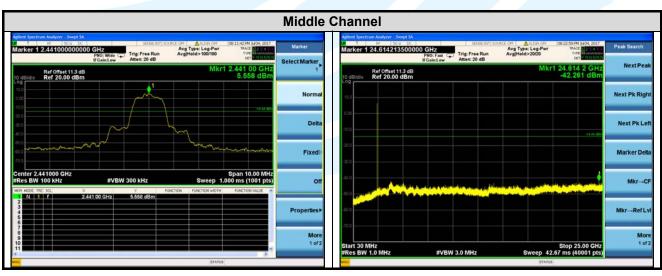




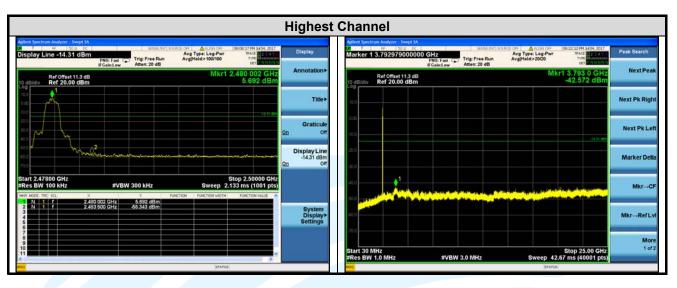


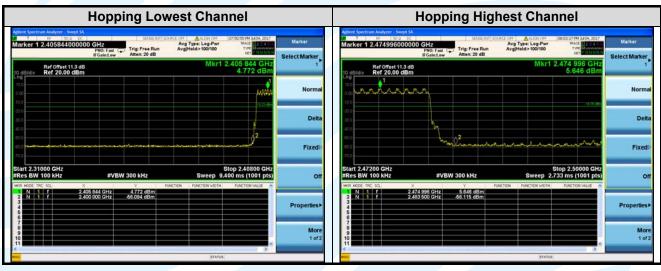


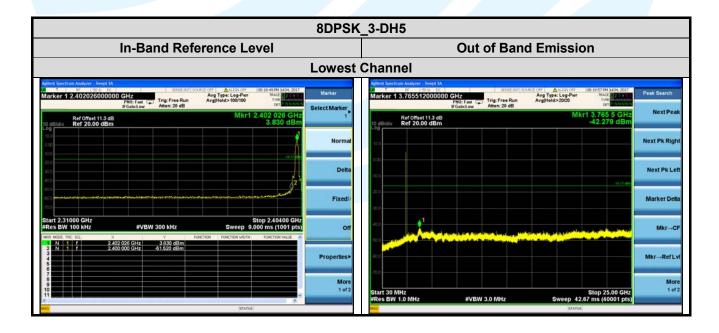




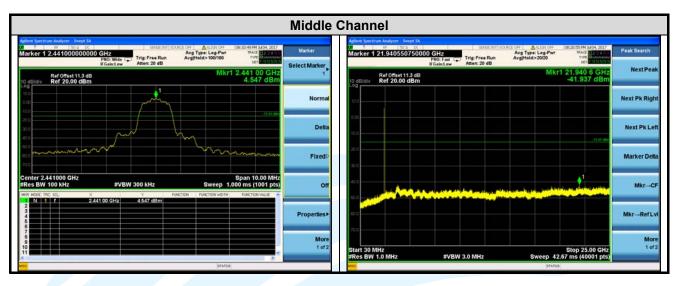


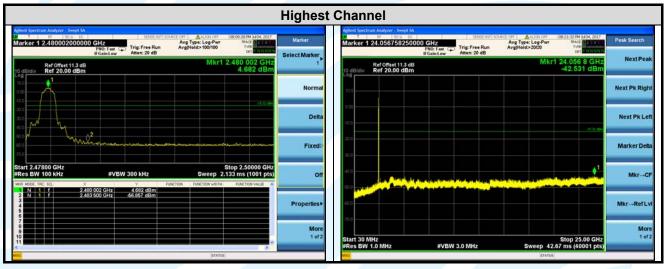


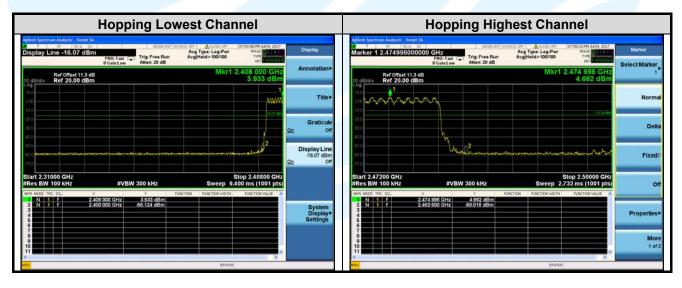














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5.10 RADIATED SPURIOUS EMISSIONS

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

RSS-Gen Issue 4, Section 6.13/8.9/8.10

Test Method: ANSI C63.10-2013

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009 MHz-0.090 MHz	Peak	10 kHz	30 KHz	Peak
0.009 MHz-0.090 MHz	Average	10 kHz	30 KHz	Average
0.090 MHz-0.110 MHz	Quasi-peak	10 kHz	30 KHz	Quasi-peak
0.110 MHz-0.490 MHz	Peak	10 kHz	30 KHz	Peak
0.110 MHz-0.490 MHz	Average	10 kHz	30 KHz	Average
0.490 MHz -30 MHz	Quasi-peak	10 kHz	30 kHz	Quasi-peak
30 MHz-1 GHz	Quasi-peak	100 kHz	300 KHz	Quasi-peak
Above 1 GHz	Peak	1 MHz	3 MHz	Peak
Above I Gnz	Peak	1 MHz	10 Hz	Average

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

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Remark:

- 1. The lower limit shall apply at the transition frequencies.
- 2. 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:

- From 30 MHz to 1GHz test procedure as below:
- 1) 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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

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

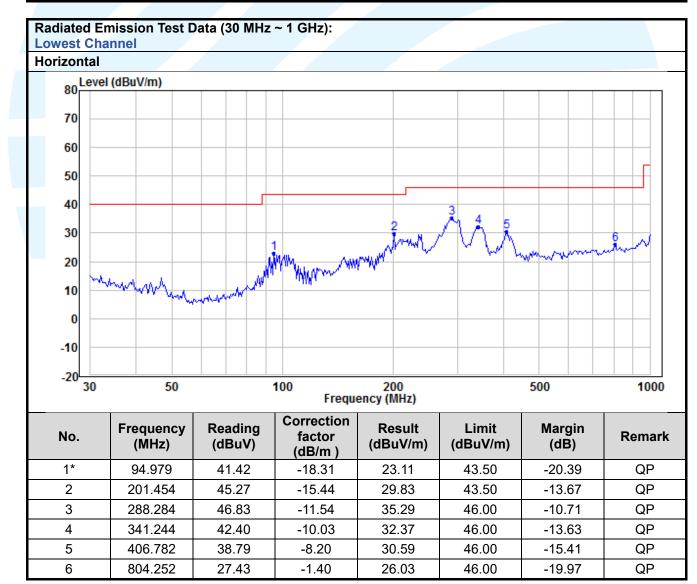
Equipment Used: Refer to section 3 for details.

Test Result: Pass

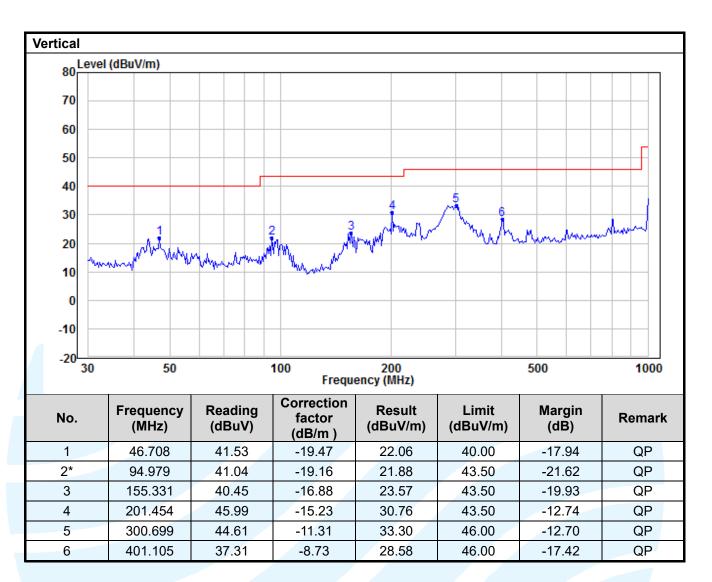
The measurement data as follows:

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.







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Radiated Emission Test Data (Above 1GHz):

Lowest Channel:

No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark
1	4804.00	41.54	74.00	-32.46	Peak	Horizontal
2	7206.00	44.88	74.00	-29.12	Peak	Horizontal
3	4804.00	39.17	74.00	-34.83	Peak	Vertical
4	7206.00	43.84	74.00	-30.16	Peak	Vertical

Middle Chann	iel:					
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark
1	4882.00	39.87	74.00	-34.13	Peak	Horizontal
2	7323.00	44.59	74.00	-29.41	Peak	Horizontal
3	4882.00	39.07	74.00	-34.93	Peak	Vertical
4	7323.00	43.06	74.00	-30.94	Peak	Vertical

Highest Chan	inel:					
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark
1	4960.00	41.03	74.00	-32.97	Peak	Horizontal
2	7440.00	44.70	74.00	-29.30	Peak	Horizontal
3	4960.00	39.61	74.00	-34.39	Peak	Vertical
4	7440.00	43.47	74.00	-30.53	Peak	Vertical

Remark:

As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. 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. So, only the peak measurements were shown in the report.



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5.11 BAND EDGE MEASUREMENTS (RADIATED)

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

RSS-247 Issue 2. Section 5.5

Test Method: DA 00-705

Limits:

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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
ADOVE I GHZ	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).

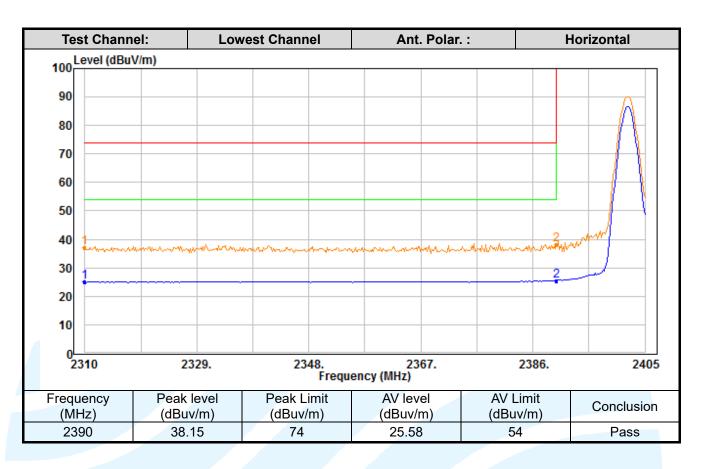
- 1. Use radiated spurious emission test procedure described in clause 5.10. The transmitter output (antenna port) was connected to the test receiver.
- 2. Set the PK and AV limit line.
- 3. Record the fundamental emission and emissions out of the band-edge.
- 4. Determine band-edge compliance as required.

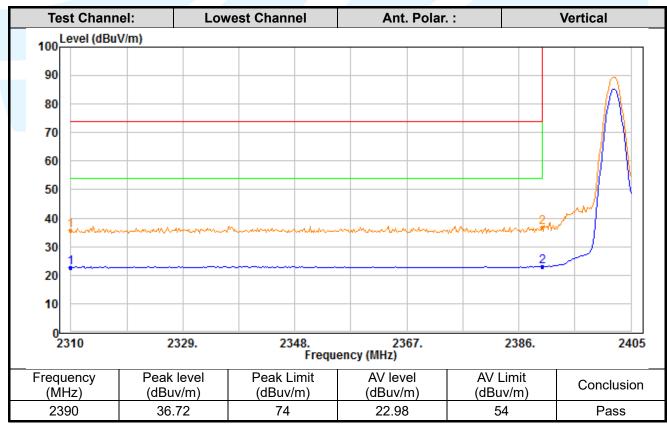
Equipment Used: Refer to section 3 for details.

Test Result: Pass

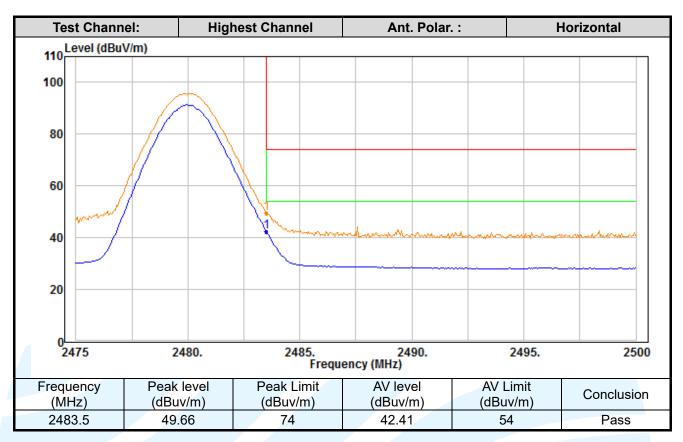
The measurement data as follows:

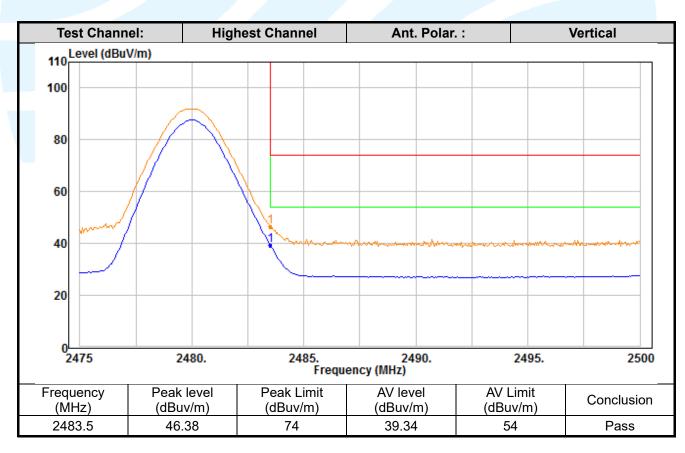














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APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

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

