# **FCC REPORT**

Applicant: Shenzhen Contel Electronics Technology Co., LTD

Address of Applicant:

Room 306, Unit A4, Kexing Science Park, No.15 Keyuan Road,

SHIP, Nanshan District, Shenzhen, China

**Equipment Under Test (EUT)** 

Product Name: Bluetooth Speaker

Model No.: BT-200

Trade mark: DIGIX

FCC ID: YAPBT200

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 04 Sep., 2014

**Date of Test:** 04 Sep., to 26 Sep., 2014

Date of report issued: 26 Sep., 2014

Test Result: PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

#### Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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#### 2 **Version**

Version No.	Date	Description
00	26 Sep., 2014	Original

Luna Gan Report Clerk Prepared by: 26 Sep., 2014 Date:

Reviewed by: 26 Sep., 2014 Date:

**Project Engineer** 



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### 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(1)	Pass
Dwell Time	15.247 (a)(1)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

Pass: The EUT complies with the essential requirements in the standard.



### 5 General Information

### 5.1 Client Information

Applicant:	Shenzhen Contel Electronics Technology Co., LTD					
Address of Applicant:	Room 306,Unit A4, Kexing Science Park, No.15 Keyuan Road, SHIP, Nanshan District, Shenzhen, China					
Manufacturer:	Dongguan Contel Cloud Terminal System CO.,LTD					
Address of Manufacturer:	Waijing Industrial Park, Gaolong road, Gaobu Town, Dongguan, GuangDong, China					

### 5.2 General Description of E.U.T.

<del>_</del>	
Product Name:	Bluetooth Speaker
Model No.:	BT-200
Operation Frequency:	2402MHz~2480MHz
Transfer rate:	1/2/3 Mbits/s
Number of channel:	79
Modulation type:	GFSK, π/4-DQPSK, 8DPSK
Modulation technology:	FHSS
Antenna Type:	Internal Antenna
Antenna gain:	0 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-600mAh



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



#### 5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting mode with worst case data rate.
Remark	GFSK (1 Mbps) is the worst case mode.

The sample was placed 0.8m above the ground plane of 3m chamber\*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working with a fresh battery, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

#### 5.4 Laboratory Facility

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

#### ● FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

#### ● IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

#### ● CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

### 5.5 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282 Fax: +86-755-23116366



### 5.6 Test Instruments list

Radiated Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	Aug. 23 2014	Aug. 22 2017		
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	Apr. 19 2014	Apr. 19 2015		
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	Apr. 19 2014	Apr. 19 2015		
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2014	Mar. 31 2015		
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2014	Mar. 31 2015		
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2014	Mar. 31 2015		
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2014	Mar. 31 2015		
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2014	Mar. 31 2015		
10	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2014	Mar. 31 2015		
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2014	June 08 2015		
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2014	Mar. 31 2015		
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2014	Mar. 29 2015		
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A		
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A		
16	Spectrum analyzer 9k-30GHz  Rohde & Schwarz		FSP	CCIS0023	Apr. 19 2014	Apr. 19 2015		
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr. 01 2014	Mar. 31 2015		
18	Loop antenna	Laplace instrument	RF300	EMC0701	Apr. 01 2014	Mar. 31 2015		
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	May. 29 2014	May. 28 2015		
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	Apr. 19 2014	Apr. 19 2015		

Conducted Emission:										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)				
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	Oct. 10 2011	Oct. 09 2014				
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	Apr. 10 2014	Apr. 09 2015				
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 10 2014	Apr. 10 2015				
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2014	Mar. 31 2015				
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A				



#### 6 Test results and Measurement Data

### 6.1 Antenna requirement

#### Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

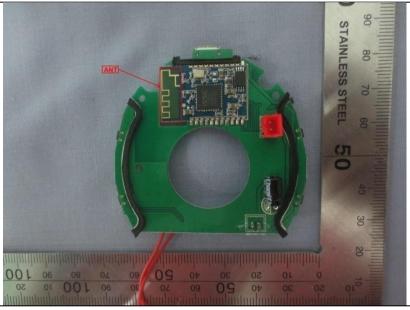
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

### E.U.T Antenna:

The Bluetooth antenna is an integral antenna which permanently attached, and the best case gain of the antenna is 0 dBi.





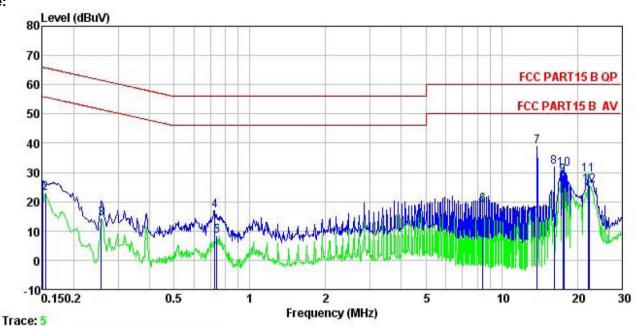
### 6.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.4:2003						
Test Frequency Range:	150 kHz to 30 MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto						
Limit:	Limit (dBuV)						
	Frequency range (MHz)  Quasi-peak  Average						
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30						
	* Decreases with the logarithm of	* Decreases with the logarithm of the frequency.					
Test setup:	Reference Plane						
	AUX Filter AC power  Equipment E.U.T  Test table/Insulation plane  Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m						
Test procedure:	<ol> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.</li> </ol>						
Test Instruments:	Refer to section 5.7 for details						
Test mode:	Bluetooth (Continuous transmittin	ng) mode					
Test results:	Pass	-					

#### **Measurement Data**



#### Line:



Site

: CCIS Shielding Room : FCC PART15 B QP LISN LINE : 746RF Condition

Job. no

EUT : Bluetooth Speaker

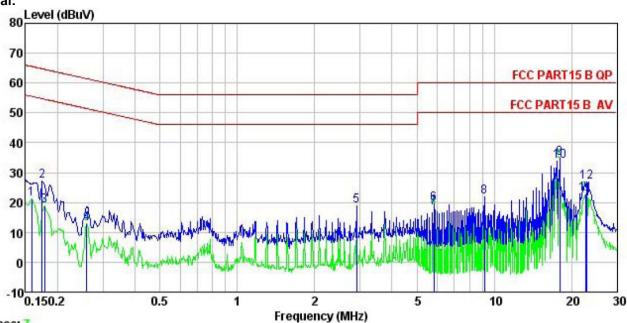
: BT-200 Mode Test Mode : BT mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 C Huni:56% Atmos:101KPa

Test Engineer: MT

300,77,107	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>	<u>d</u> B	dBu∜	dBu∜	<u>ab</u>	
1	0.150	27.01	0.27	0.00	27.28	66.00	-38.72	QP
2	0.154	22.65	0.27	0.00	22.92	55.78	-32.86	Average
3	0.258	14.09	0.27	0.00	14.36			Average
4	0.727	16.56	0.22	0.00	16.78	56.00	-39.22	QP
1 2 3 4 5 6 7 8 9	0.739	8.12	0.22	0.00	8.34	46.00	-37.66	Average
6	8.412	18.45	0.31	0.00	18.76	50.00	-31.24	Average
7	13.841	38.61	0.32	0.00	38.93	60.00	-21.07	QP
8	16.140	31.36	0.33	0.00	31.69	60.00	-28.31	QP
9	17.475	28.42	0.33	0.00	28.75	50.00	-21.25	Average
10	17.661	30.71	0.33	0.00	31.04	60.00	-28.96	QP
11	22.180	28.78	0.42	0.00	29.20	60.00	-30.80	QP
12	22.298	25.19	0.42	0.00	25.61	50.00	-24.39	Average







Trace: 7

Site

CCIS Shielding Room FCC PART15 B QP LISN NEUTRAL Condition

Job. no 746RF

EUT Bluetooth Speaker

: BT-200 : BT mode Mode Test Mode Power Rating : AC 120V/60Hz

Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: MT

	6	D1	ITCM	C-11-		Toront	A	
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>		dBu∀	dBu∜	<u>dB</u>	
1	0.158	21.04	0.25	0.00	21.29	55.56	-34.27	Average
2	0.174	27.01	0.25	0.00	27.26	64.77	-37.51	QP
3	0.178	18.50	0.25	0.00	18.75	54.59	-35.84	Average
4	0.259	12.81	0.26	0.00	13.07	51.47	-38.40	Average
1 2 3 4 5 6 7	2.915	18.48	0.29	0.00	18.77	56.00	-37.23	QP
6	5.836	19.30	0.27	0.00	19.57	60.00	-40.43	QP
7	5.836	18.01	0.27	0.00	18.28	50.00	-31.72	Average
8	9.156	21.48	0.25	0.00	21.73	60.00	-38.27	QP
8	17.944	34.55	0.26	0.00	34.81	60.00	-25.19	QP
10	17.944	33.70	0.26	0.00	33.96	50.00	-16.04	Average
11	22.655	22.43	0.38	0.00	22.81	50.00	-27.19	Average
12	22.896	26.40	0.40	0.00	26.80	60.00	-33.20	QP

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss



### 6.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and DA00-705
Receiver setup:	RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤1 MHz) RBW=3MHz, VBW=10MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)
Limit:	125 mW(21 dBm)
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

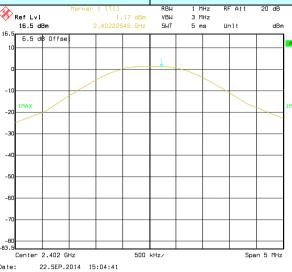
#### **Measurement Data**

Measurement Data					
GFSK mode					
Test channel	Peak Output Power (dBm)	Peak Output Power (dBm) Limit (dBm)			
Lowest	1.17	21.00	Pass		
Middle	1.16	21.00	Pass		
Highest	0.81	21.00	Pass		
	π/4-DQPSK ι	mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	0.33	21.00	Pass		
Middle	0.33	21.00	Pass		
Highest	0.09 21.00		Pass		
	8DPSK mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	0.21	21.00	Pass		
Middle	0.33 21.00		Pass		
Highest	-0.03	21.00	Pass		

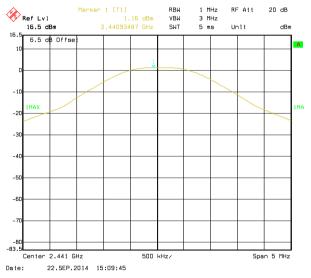


Test plot as follows:





#### Lowest channel



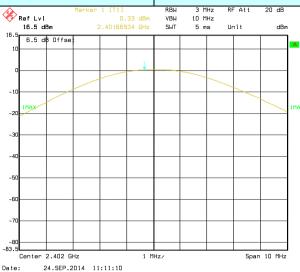
#### Middle channel



Highest channel



Modulation mode: π/4-DQPSK



#### Lowest channel



#### Middle channel



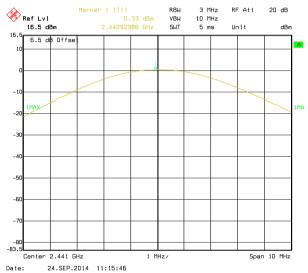
Highest channel



Modulation mode: 8DPSK



#### Lowest channel



#### Middle channel



Highest channel



### 6.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2003 and DA00-705
Receiver setup:	RBW=30 kHz, VBW=100 kHz, detector=Peak
Limit:	NA
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

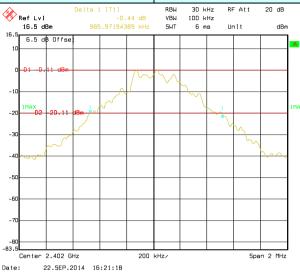
#### **Measurement Data**

Took ob annal	20dB Occupy Bandwidth (kHz)		
Test channel	GFSK	π/4-DQPSK	8DPSK
Lowest	985.97	1254.51	1222.44
Middle	965.93	1258.52	1226.45
Highest	989.98	1254.51	1226.45

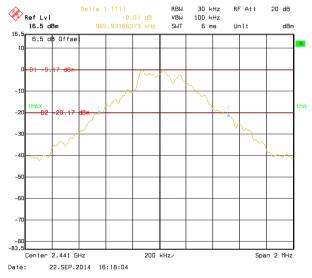
### Test plot as follows:



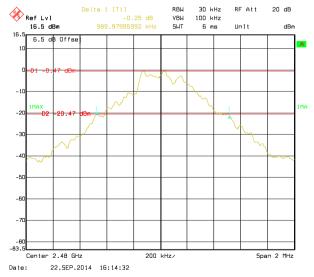
Modulation mode: GFSK



#### Lowest channel



#### Middle channel



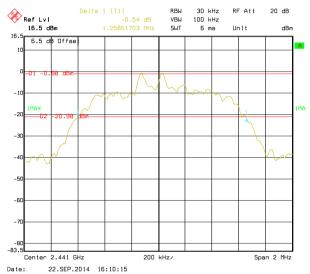
Highest channel



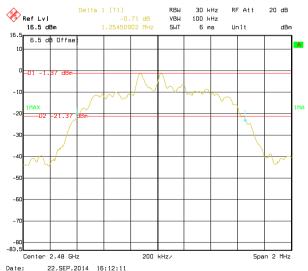
Modulation mode: π/4-DQPSK



#### Lowest channel



#### Middle channel



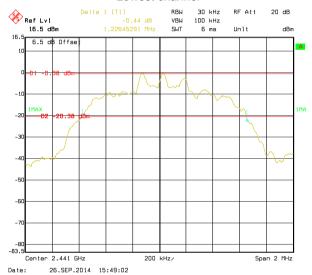
Highest channel



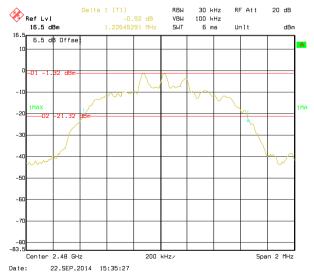
Modulation mode: 8DPSK



#### Lowest channel



#### Middle channel



Highest channel



### 6.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2003 and DA00-705
Receiver setup:	RBW=100 kHz, VBW=300 kHz, detector=Peak
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane
Test Instruments:	Refer to section 5.7 for details
Test mode:	Hopping mode
Test results:	Pass

#### **Measurement Data**



GFSK mode				
Test channel	Carrier Frequencies Separation (kHz) Limit (kHz)		Result	
Lowest	1002	659.99	Pass	
Middle	1002	659.99	Pass	
Highest	1002	659.99	Pass	
	π/4-DQPSK mod	le		
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result	
Lowest	1002	839.01	Pass	
Middle	1002	839.01	Pass	
Highest	1002	839.01	Pass	
	8DPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result	
Lowest	1002	817.63	Pass	
Middle	1006	817.63	Pass	
Highest	1002	817.63	Pass	

Note: According to section 6.4

Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	989.98	659.99
π/4-DQPSK	1258.52	839.01
8DPSK	1226.45	817.63

### Test plot as follows:



Modulation mode:

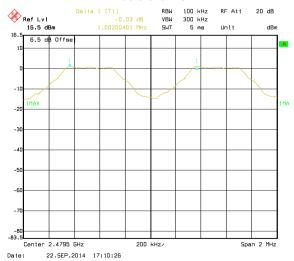
GFSK



#### Lowest channel



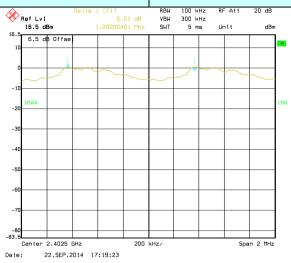
#### Middle channel



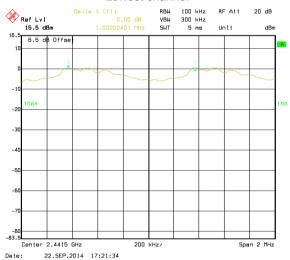
Highest channel



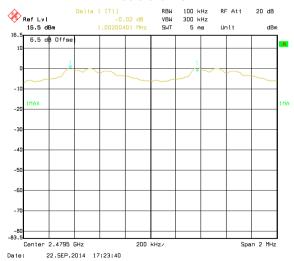
Modulation mode: π/4-DQPSK



#### Lowest channel



#### Middle channel



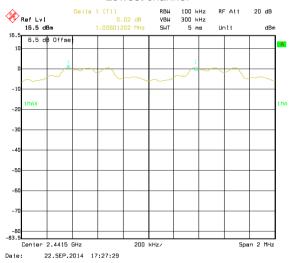
Highest channel



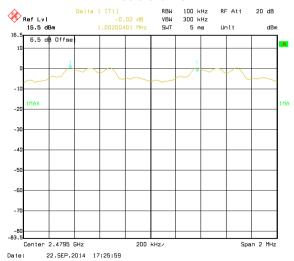
Modulation mode: 8DPSK



#### Lowest channel



#### Middle channel



Highest channel



### 6.6 Hopping Channel Number

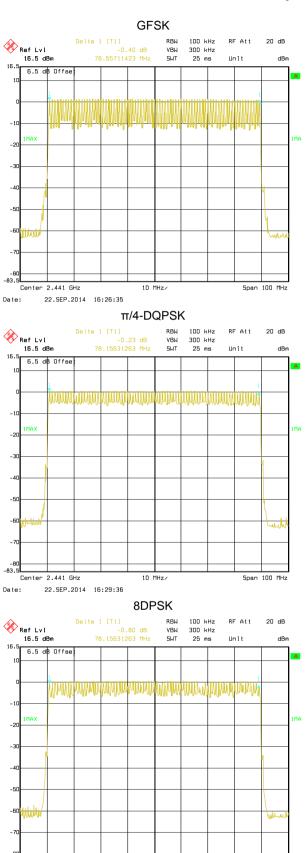
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2003 and DA00-705
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane
Test Instruments:	Refer to section 5.7 for details
Test mode:	Hopping mode
Test results:	Pass

#### **Measurement Data:**

Mode	Hopping channel numbers	Limit	Result
GFSK, π/4-DQPSK, 8DPSK	79	15	Pass







Span 100 MHz

22.SEP.2014 16:32:18



#### 6.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Receiver setup:	RBW=1 MHz, VBW=1 MHz, Span=0 Hz, Detector=Peak
Limit:	0.4 Second
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane
Test Instruments:	Refer to section 5.7 for details
Test mode:	Hopping mode
Test results:	Pass

#### Measurement Data (Worse case)

Mode	Packet	Dwell time (second)	Limit (second)	Result
	DH1	0.13472		
GFSK	DH3	0.26928	0.4	Pass
	DH5	0.31552		
	2-DH1	0.13664		
π /4-DQPSK	2-DH3	0.27120	0.4	Pass
	2-DH5	0.31467		
	3-DH1	0.13536		
8DPSK	3-DH3	0.27120	0.4	Pass
	3-DH5	0.31552		

For GFSK, π/4-DQPSK and 8DPSK:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

DH1 time slot=0.421\*(1600/ (2\*79))\*31.6=134.72ms DH3 time slot=1.683\*(1600/ (4\*79))\*31.6=269.28ms DH5 time slot=2.958(1600/ (6\*79))\*31.6=315.52ms

2-DH1 time slot=0.427\*(1600/ (2\*79))\*31.6=136.64ms

2-DH3 time slot=1.695\*(1600/ (4\*79))\*31.6=271.20ms 2-DH5 time slot=2.950\*(1600/ (6\*79))\*31.6=314.67ms

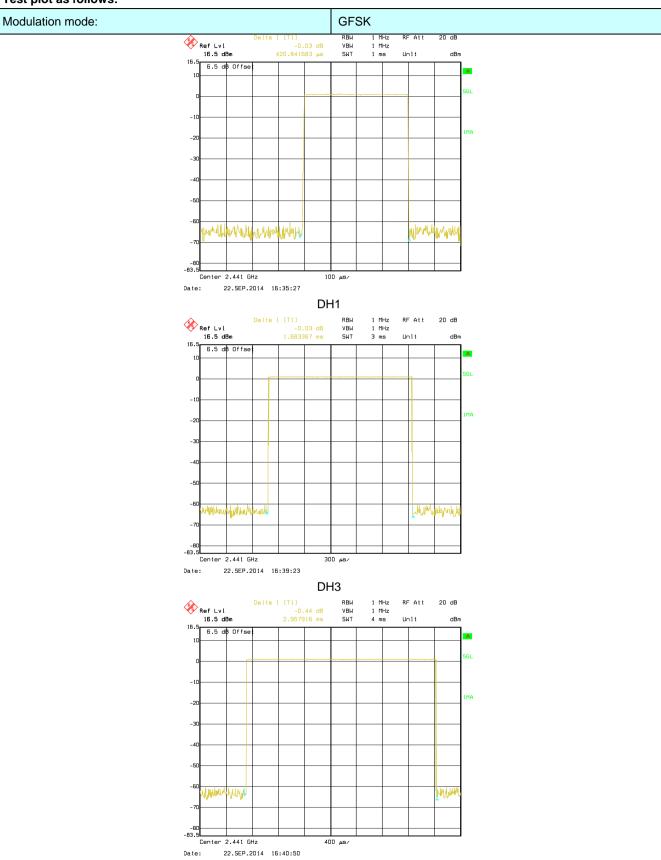
3-DH1 time slot=0.423\*(1600/ (2\*79))\*31.6=135.36ms

3-DH3 time slot=1.695\*(1600/ (4\*79))\*31.6=271.20ms

3-DH5 time slot=2.958\*(1600/ (6\*79))\*31.6=315.52ms



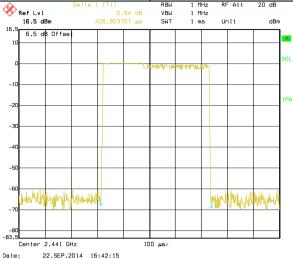
#### Test plot as follows:



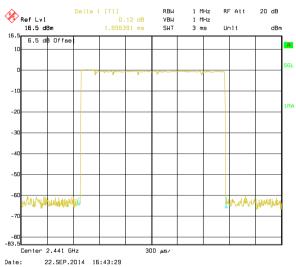
DH5



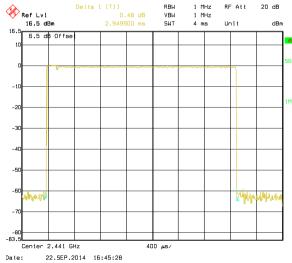
Modulation mode: π/4-DQPSK



2-DH1



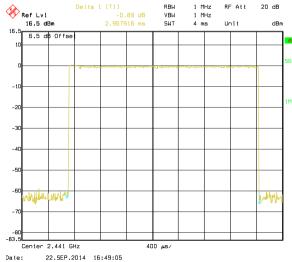
2-DH3



2-DH5



8DPSK Modulation mode: Ref Lvl 16.5 dBm VBW SWT 1 MHz 1 ms Unit Center 2.441 GHz 100 μs/ 22.SEP.2014 16:46:34 Date: 3-DH1 Delta 1 [T1] 0.08 dB 1.695391 ms RBW VBW SWT 1 MHz 1 MHz 3 ms Ref Lvl 16.5 dBm RF Att 20 dB 6.5 dB Offse MUM Center 2.441 GHz 300 μs/ 22.SEP.2014 16:48:04 3-DH3 Ref Lvl 16.5 dBm Delta 1 [T1] RBW 1 MHz RF Att 20 dB -0.89 dB 2.957916 ms VBW SWT 1 MHz 4 ms Unit dBm 6.5 dB Offs



3-DH5