

TEST REPORT

For

Applicant: ShenZhen congli Technology Co., Limited

Address: 3/F, No.7 Building, the second road zhuangbian

industrial, xixiang street, Baoan District, Shenzhen

Product Name: Bluetooth keyboard

Model Name: CL-868

Brand Name: N/A

FCC ID: 2ADJ4CL-868

Report No.: MTE/DYY/A15111481

Date of Issue: Nov. 04, 2015

Issued by: Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Address:

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. GENERAL INFORMATION	5
2.1 Product Information	5
2.2 Objective	5
2.3 Test Standards and Results	
2.4 Environmental Conditions	
3. TEST METHODOLOGY	
3. 1TEST FACILITY	
3.2 GENERAL TEST PROCEDURES	
4. SETUP OF EQUIPMENT UNDER TEST	
4.1 SETUP CONFIGURATION OF EUT	
4.2 SUPPORT EQUIPMENT	
4.3 TEST EQUIPMENT LIST	
5. 47 CFR Part 15 C Requirements	
5. 47 GFR Part 15 G Requirements	10
5.1 RF EXPOSURE	
5.1.1 Applicable Standard	10
5.1.2 Measurement Result	
5.2 ANTENNA REQUIREMENT	
5.2.1 Applicable Standard	
5.2.2 Evaluation Criteria	
5.2.3 Result: Compliance.	
5.3 AC Power Line Conducted Emission	
5.3.1Requirement	
5.3.2 Block Diagram of Test Setup	
5.3.3 Test procedure	
5.3.4 Test Result	
5.4 Radiated Emission	
5.4.1Requirement	
5.4.2 Test Configuration	
5.4.3 Test Procedure:	
5.4.4 Test Result	
5.5 Conducted Peak Output Power	
5.5.1 Requirement	
5.5.2 Block Diagram of Test Setup	
5.5.3 Test Procedure	
5.5.4 Test Result	
5.6 20dB Emission Bandwidth	
5.6.1 Test Requirement	
5.6.2 Test Procedure	
5.6.3 Test Result	
5.7 Carrier Frequency Separation	
5.7.1 Test Requirement	
5.7.2 Test Procedure	
5.7.3 Test Result	
5.8 Number of Hopping Channel	
5.8.1 Test Requirement	
5.8.2 Test Procedure	
5.8.3 Test Result	
5.9 Dwell Time	
5.9.1 Test Requirement	

5.9.2 Test Procedure	38
5.9.3 Test Result	38
5.9 Band Edge and Conducted Spurious Emissions	42
5.9.1 Test Requirement	42
5.9.2 Test Procedure	42
5.9.3 Test Result	42
5.10 Restricted Frequency Bands	47
5.10.1 Test Requirement	47
5.10.2 Test Configuration	47
5.10.3 Test Procedure:	47
5.10.4 Test Result	47

1. VERIFICATION OF CONFORMITY

Equipment Under Test: Bluetooth keyboard

Brand Name: N/A

Model Number: CL-868

FCC ID: 2ADJ4CL-868

Applicant: ShenZhen congli Technology Co., Limited.

3/F, No.7 Building, the second road zhuangbian industrial, xixiang

street, Baoan District, Shenzhen

Manufacturer: ShenZhen congli Technology Co., Limited.

3/F, No.7 Building, the second road zhuangbian industrial, xixiang

street, Baoan District, Shenzhen

Technical Standards: 47 CFR Part 15 Subpart C

 File Number:
 MTE/DYY/A15111481

 Date of test:
 Oct. 30 - Nov. 03, 2015

Deviation: None
Condition of Test Normal

Sample:

Test Result: PASS

The above equipment was tested by Most Technology Service Co., Ltd. for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Prepared by (+ signature):

Daisy Yu
Oct. 30 - Nov. 03, 2015

Review by (+ signature):

Henry Chen
Nov. 04, 2015

Approved by (+ signature):

Yvette Zhou (Manager)
Nov. 04, 2015

2. GENERAL INFORMATION

2.1 Product Information

Product	Bluetooth keyboard
Brand Name	N/A
Model Number	CL-868
Series Model Name:	N/A
Series Model Difference description:	N/A
Power Supply	1. DC 5V by USB Port 2. DC 3.7V by Battery
Frequency Range	2402MHz -2480MHz
Modulation Type:	GFSK, π /4-DQPSK, 8DPSK
Modulation Technique	FHSS
Channel Number	79
Antenna Type	Internal PCB Antenna, 0 dBi
Temperature Range	-10°C ~ +45°C

NOTE:

2.2 Objective

The objective of the report is to perform tests according to FCC Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices
2	DA00-705	Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

^{1.} For a more detailed features description about the EUT, please refer to User's Manual.

2.3 Test Standards and Results

No.	Section	Test Items	Result	Date of Test
1	FCC 15.247 (i)	RF EXPOSURE	PASS	2015-11-03
2	FCC 15.203	Antenna Requirement	PASS	2015-11-03
3	FCC15.207 (a)	AC Power Line Conducted Emission	PASS	2015-10-30
4	FCC15.209, 15.247(d)	Radiated Emission	PASS	2015-11-03
5	FCC 15.247 (b)(1)	Conducted Peak Output Power	PASS	2015-11-02
6	FCC 15.247 (a)(1)	20dB Emission Bandwidth	PASS	2015-10-30
7	FCC 15.247 (a)(1)	Carrier Frequency Separation	PASS	2015-10-30
8	FCC 15.247 (a)(1)(iii)	Number of Hopping Channel	PASS	2015-10-30
9	FCC 15.247 (a)(1) (iii)	Dwell Time	PASS	2015-11-02
10	FCC15.247(d)	Band Edge and Conducted Spurious Emissions	PASS	2015-11-02
11	FCC15.247(d)	Restricted Frequency Bands	PASS	2015-11-03
Rema	rk: N/A means not applicable	le	•	

Note: 1. The test result judgment is decided by the limit of measurement standard

2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C - Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

3. TEST METHODOLOGY

3. 1TEST FACILITY

Test Site: Most Technology Service Co., Ltd

Location: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen,

Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009 and CISPR

16 requirements.

The FCC Registration Number is 490827. The IC Registration Number is 7103A-1.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument All measuring equipment is in accord with ANSI C63.4:2009 and CISPR 16

Tolerance: requirements that meet industry regulatory agency and accreditation agency

requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted

Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire

area between the EUT and the antenna.

3.2 GENERAL TEST PROCEDURES

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 8.3.1 of ANSI C63.4:2009.

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.3 of ANSI C63.4:2009, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

4. SETUP OF EQUIPMENT UNDER TEST

4.1 SETUP CONFIGURATION OF EUT

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

4.2 SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Input	Output
Adapter		STC-A515A-Z		100-240V~ 50/60Hz	dc 5.0V 1500 mA

Remark:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.3 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration Interval
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2015/03/10	1 Year
2	Spectrum Analyzer	Agilent	E7405A	US44210471	2015/03/14	1 Year
3	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2015/03/10	1 Year
4	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015/03/07	1 Year
5	Terminator	Hubersuhner	50Ω	No.1	2015/03/07	1 Year
6	RF Cable	SchwarzBeck	N/A	No.1	2015/03/07	1 Year
7	Test Receiver	Rohde & Schwarz	ESPI	101202	2015/03/10	1 Year
8	Bilog Antenna	Sunol	JB3	A121206	2015/03/14	1 Year
9	Horn Antenna	SCHWARZBECK	BBHA9120D	756	2015/03/14	1 Year
10	Horn Antenna	Penn Engineering	9034	8376	2015/03/14	1 Year
11	Cable	Resenberger	N/A	NO.1	2015/03/07	1 Year
12	Cable	SchwarzBeck	N/A	NO.2	2015/03/07	1 Year
13	Cable	SchwarzBeck	N/A	NO.3	2015/03/07	1 Year
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2015/03/07	1 Year
15	Test Receiver	Rohde & Schwarz	ESCI	100492	2015/03/10	1 Year
16	Loop antenna	ARA	PLA-1030/B	1039	2015/03/14	1 Year

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15 C Requirements

5.1 RF EXPOSURE

5.1.1 Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v05r02:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

5.1.2 Measurement Result

The maximum conducted output power= 3.254 dBm (2.1154 mW) at 2480 MHz [(max. power of channel, mW)/(min. test separation distance, mm)] [\sqrt{f} (GHz)]

 $=2.1154/5*(\sqrt{2.480}) = 0.67 < 3.0$

So the stand-alone SAR evaluation is not necessary.

5.2 ANTENNA REQUIREMENT

5.2.1 Applicable Standard

According to FCC § 15.203, 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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

5.2.2 Evaluation Criteria

- (a) Antenna must be permanently attached to the unit.
- (b) Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, Installer shall be responsible for verifying that the correct antenna is employed with the unit.

5.2.3 Result: Compliance.

The EUT has one integral antenna arrangement, which was permanently attached and the antenna gain is 0 dBi, fulfill the requirement of this section.

5.3 AC Power Line Conducted Emission

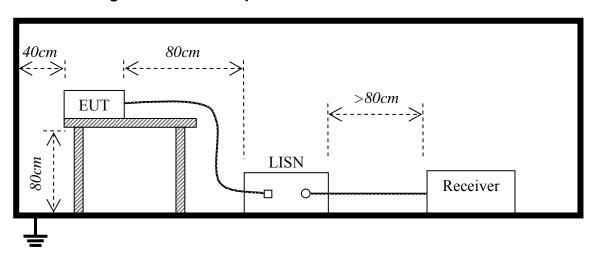
5.3.1Requirement

A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the and 150 kHz-30 MHz, shall not exceed the limits in the following table:

Frequency	Maximum RF Line Voltage					
requency	Q.P.(dBuV)	Average(dBuV)				
150kHz-500kHz	66-56	56-46				
500kHz-5MHz	56	46				
5MHz-30MHz	60	50				

^{**}Note: 1. the lower limit shall apply at the band edges.

5.3.2 Block Diagram of Test Setup



5.3.3 Test procedure

- 1. 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.
- 2. Exploratory measurements were made to identify the frequency of the emission that has the highest amplitude relative to the limit;
- 3. 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).
- 4. 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: 2009 on conducted measurement.
- 5. The bandwidth of test receiver (ESCI) set at 9 KHz.
- 6. All data was recorded in the Quasi-peak and average detection mode.

5.3.4 Test Result

Pass

Note: All test modes are performed, only the worst case is recorded in this report.

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

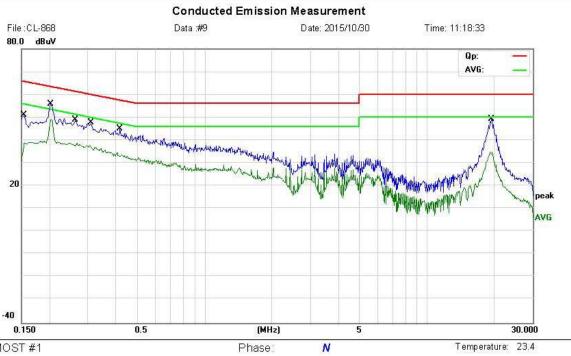
Humidity: 52.7 %

Please refer the following pages.



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong, China

Tel: 0755-86026850 Fax: 0755-26013350



Power: DC5VbyUSB port

Site MOST #1

Limit: FCC Part15 B Class B QP

EUT: Bluetooth Keyboard

M/N: CL-868 Mode: GFSK

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∀	dBu∨	dB	Detector	Comment
1		0.1548	40.88	9.29	50.17	65.74	-15.57	QP	
2		0.1548	29.46	9.29	38.75	55.74	-16.99	AVG	
3		0.2040	43.40	11.97	55.37	63.45	-8.08	QP	
4	*	0.2040	37.00	11.97	48.97	53.45	-4.48	AVG	
5		0.2630	36.86	11.58	48.44	61.34	-12.90	QP	
6		0.2630	26.25	11.58	37.83	51.34	-13.51	AVG	
7		0.3067	35.54	11.29	46.83	60.06	-13.23	QP	
8		0.3067	26.31	11.29	37.60	50.06	-12.46	AVG	
9		0.4193	33.01	10.54	43.55	57.46	-13.91	QP	
10		0.4193	22.59	10.54	33.13	47.46	-14.33	AVG	
11	-	19.5020	38.78	9.00	47.78	60.00	-12.22	QР	
12	1	19.5020	25.29	9.00	34.29	50.00	-15.71	AVG	

^{*:}Maximum data x:Overlimit I:overmargin

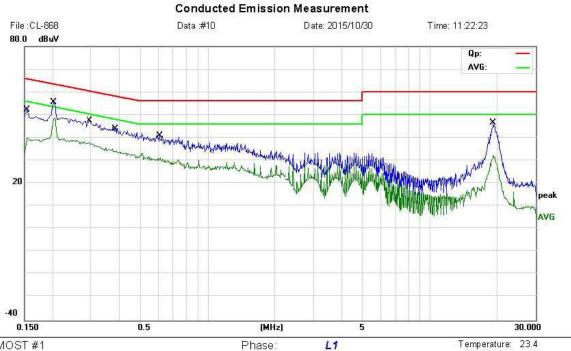
Engineer Signature: huzongyu

Humidity: 52.7 %



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350



Power: DC5VbyUSB port

Site MOST #1

Limit: FCC Part15 B Class B QP

EUT: Bluetooth Keyboard

M/N: CL-868 Mode: GFSK

Note:

No. M	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∀	dBu∀	dB	Detector	Comment
1	á	0.1556	41.25	9.34	50.59	65.70	-15.11	QP	
2	8	0.1556	30.29	9.34	39.63	55.70	-16.07	AVG	
3 *		0.2007	34.12	12.00	46.12	53.58	-7.46	AVG	
4	8	0.2030	43.27	11.98	55.25	63.49	-8.24	QP	
5	1	0.2940	35.96	11.37	47.33	60.41	-13.08	QP	
6	š	0.2940	26.54	11.37	37.91	50.41	-12.50	AVG	
7	ĝ	0.3860	32.99	10.76	43.75	58.15	-14.40	QP	
8	3	0.3860	23.19	10.76	33.95	48.15	-14.20	AVG	
9	á	0.6108	29.89	10.00	39.89	56.00	-16.11	QP	
10	ş	0.6108	20.81	10.00	30.81	46.00	-15.19	AVG	
11	1	9.3980	37.62	9.00	46.62	60.00	-13.38	QР	
12	1	9.5020	22.64	9.00	31.64	50.00	-18.36	AVG	

^{*:}Maximum data x:Over limit Lover margin

Engineer Signature: huzongyu

5.4 Radiated Emission

5.4.1Requirement

According to FCC section 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC section 15.209(a), Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (µV/m at 3-meter)	Test Distance (m)	Field Strength (dBµV/m at 3-meter)
0.009 - 0.490	2400/F(kHz)	300	
0.490 - 1.705	24000/F(kHz)	30	
1.705-30	30	30	
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Note:

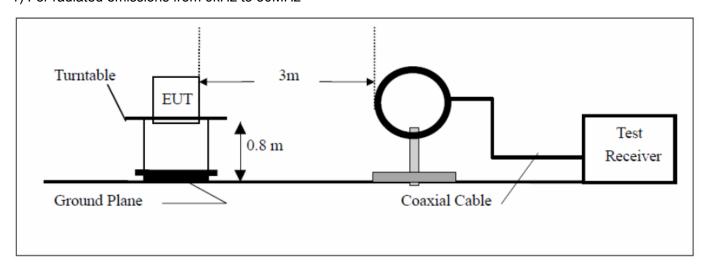
- 1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
- 2. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in RSS-Gen Cl.8.10, also should comply with the radiated emission limits specified in RSS-Gen Cl.8.9 (above table)

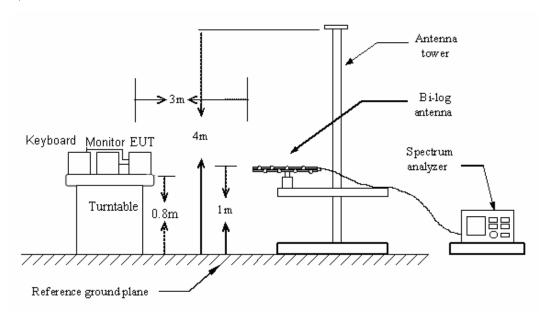
5.4.2 Test Configuration

Test Setup:

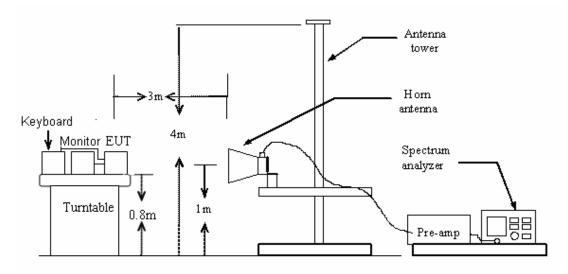
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



5.4.3 Test Procedure:

- 1. For frequencies above 1GHz, the frequencies of maximum emission was recorded by manually positioning the antenna close to the EUT and by moving the antenna over all sides of the EUT while observing a spectral display.
- 2. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 3. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 4. 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.
- 5. 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 and the rote table was turned from 0 degrees to 360 degrees to find the maximum reading.

- 6. For frequencies above 1GHz, horn antenna mouth should face to the EUT all the time when rise or fall.
- 7. Set the spectrum analyzer in the following setting as:

Below 1GHz: PEAK: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO QP: RBW=120 kHz / Sweep=AUTO

Above 1GHz: (a)PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b)AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

8. 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.

5.4.4 Test Result

Pass

Remark:

- 1. During the test, pre-scan the GFSK, $\pi/4$ -QPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case in above 1GHz and the GFSK Low channel modulation which it is worse case in below 1GHz.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Please refer the following pages.



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement File: CL-868 Data:#7 Date: 2015-11-3 Time: 14:30:42 70.0 dBuV/m Limit: Margin: 60 50 40 30 20 10 0

Site Chamber #1

30.000

-10.0

Limit: FCC Part15 B 3M Radiation

40

50

60

70 80

EUT: Bluetooth keyboard

M/N: CL-868 Mode: GFSK mode

Note:

Polarization: Vertical
Power: DC 3.7V by Battery

300

Humidity: 50.5 %

600 700

1000.000

Temperature: 24

Distance: 3m

400

500

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	41.1320	18.60	15.35	33.95	40.00	-6.05	QP			
2		46.1779	4.80	12.48	17.28	40.00	-22.72	QP			
3		47.4918	8.80	11.73	20.53	40.00	-19.47	QP			
4		57.3923	17.65	10.67	28.32	40.00	-11.68	QP			
5)	663.4729	5.58	24.30	29.88	46.00	-16.12	QP			
6		827.4934	6.02	26.87	32.89	46.00	-13.11	QP			

(MHz)

Engineer Signature: Deft

^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement File: CL-868 Data:#8 Date: 2015-11-3 Time: 14:39:13 70.0 dBuV/m Limit: Margin: 60 50 40 30 20 10 0

Site Chamber #1

30.000

-10.0

Limit: FCC Part15 B 3M Radiation

40

50

60

70 80

EUT: Bluetooth keyboard

M/N: CL-868 Mode: GFSK mode

Note:

Polarization: Horizontal
Power: DC 3.7V by Battery

300

Temperature: 24
Battery Humidity: 50.5 %

600 700

1000.000

500

Distance: 3m

400

No.	Mk	t. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		35.2511	5.20	18.53	23.73	40.00	-16.27	QP			
2		122.8338	4.03	17.56	21.59	43.50	-21.91	QP			
3		240.8303	9.50	17.22	26.72	46.00	-19.28	QP			
4		383.9318	6.46	18.18	24.64	46.00	-21.36	QP			
5		552.8832	6.73	22.56	29.29	46.00	-16.71	QP			
6	*	774.1584	6.45	26.02	32.47	46.00	-13.53	QP			

(MHz)

Engineer Signature:

Deft

^{*:}Maximum data x:Over limit I:over margin

51.3 %

Above 1GHz:



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement Data:#7 Date: 2015-10-30 File:CL-868 Time: 17:27:46 96.9 dBuV/m Limit: AVG: 87 77 67 57 47 37 27 16.9 1000.000 2100.00 3200.00 4300.00 5400.00 6500.00 7600.00 8700.00 9800.00 12000.00 MHz

Site site #1

Limit: FCC 1-12G PEAK

EUT: Bluetooth keyboard

M/N: CL-868 Mode: GFSK-CH0

Note:

Polarization: Horizontal Temperature: 24.2 Humidity. Power: DC 3.7V by Battery

Distance: 3m

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu√	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	Χ	2402.000	90.76	-8.43	82.33	74.00	8.33	peak			
2	*	2402.000	80.51	-8.43	72.08	54.00	18.08	AVG			
3		4804.000	47.29	-6.15	41.14	74.00	-32.86	peak			
4		4804.000	34.97	-6.15	28.82	54.00	-25.18	AVG			

Engineer Signature:

lidegan

^{*:}Maximum data | x:Over limit | 1:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement Time: 17:46:07 File:CL-868 Data:#9 Date: 2015-10-30 96.9 dBuV/m Limit: AVG: 87 77 67 57 47 37 27 16.9

18500.00

Site site #1

Limit: FCC 12-25G PEAK

12000.00013300.00

14600.00

15900.00

17200.00

EUT: Bluetooth keyboard

M/N: CL-868 Mode: GFSK-CH0

Note:

Polarization: Horizontal Power: DC 3.7V by Battery

19800.00

rizontal Temperature: 24.2 Battery Humidity. 51.3 %

25000.00 MHz

22400.00

Distance: 3m

21100.00

No. MI	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu√	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	17005.00	38.14	6,90	45.04	74.00	-28.96	peak			
2		17005.00	31.43	6.90	38.33	74.00	-35.67	peak			

Engineer Signature:

lidegan

^{*:}Maximum data | x:Over limit | 1:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement File:CL-868 Data:#8 Date: 2015-10-30 Time: 17:35:40 96.9 dBuV/m Limit: AVG: 87 77 67 57 47 37 27 16.9

6500.00

Site site #1

Limit: FCC 1-12G PEAK

1000.000 2100.00

3200.00

4300.00

5400.00

EUT: Bluetooth keyboard

M/N: CL-868 Mode: GFSK-CH0

Note:

7600.00 Polarization: Vertical

Power: DC 3.7V by Battery Humidity: 51.3 %

9800.00

12000.00 MHz Temperature: 24.2

Distance: 3m

8700.00

No. I	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu√	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	Х	2402.500	91.36	-8.43	82.93	74.00	8.93	peak			
2	*	2402.500	80.22	-8.43	71.79	54.00	17.79	AVG			
3		4804.000	51.86	-6.15	45.71	74.00	-28.29	peak			
4		4804.000	40.42	-6.15	34.27	54.00	-19.73	AVG			

Engineer Signature: lidegan

^{*:}Maximum data | x:Over limit | 1:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement File:CL-868 Data:#10 Date: 2015-10-30 Time: 17:55:27 96.9 dBuV/m Limit: AVG: 87 77 67 57 47 37 27 16.9

18500.00

Site site #1

Limit: FCC 12-25G PEAK

12000.00013300.00

14600.00

15900.00

17200.00

EUT: Bluetooth keyboard

M/N: CL-868 Mode: GFSK-CH0

Note:

Polarization: Vertical Power: DC 3.7V by Battery

19800.00

21100.00

22400.00

Temperature: 24.2

25000.00 MHz

51.3 %

Humidity:

Distance: 3m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu√	dB	dBu∨/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	16615.00	39.98	5,65	45.63	74.00	-28.37	peak			
2	8	16615.00	33.54	5.65	39.19	74.00	-34.81	peak			

Engineer Signature:

lidegan

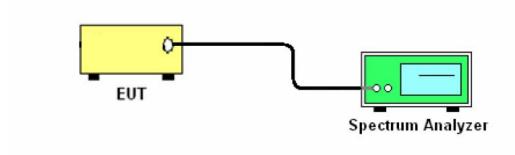
^{*:}Maximum data | x:Over limit | 1:over margin

5.5 Conducted Peak Output Power

5.5.1 Requirement

According to FCC Section 15.247(b)(1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725- 5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts

5.5.2 Block Diagram of Test Setup



5.5.3 Test Procedure

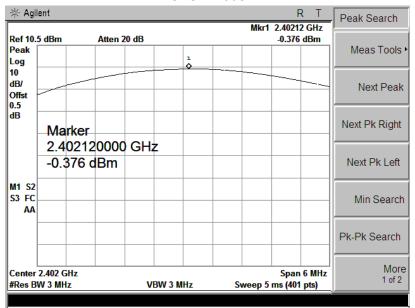
- 1. Place the EUT on a bench and set in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI test receiver.
- 3. Add a correction factor to the display.

5.5.4 Test Result

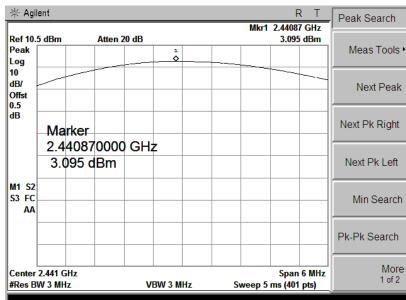
Test Item:	Peak Output Power	Temperature :	21°C
Test Engineer:	Kang	Relative Humidity :	59%

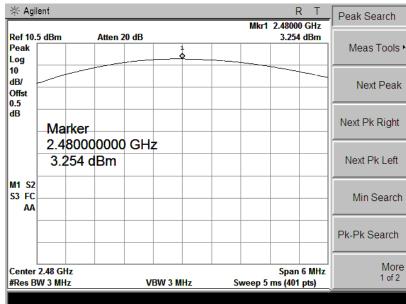
Mode	Channel	Frequency	Peak Output	Liı	mit	Pass/Fail
mode	5 11 0 111151	(MHz)	Power(dBm)	(mW)	(dBm)	1 400/1 411
	Low	2402	-0.376	125	20.97	Pass
BDR (GFSK)	Middle	2441	3.095	125	20.97	Pass
(3.3.1)	High	2480	3.254	125	20.97	Pass
	Low	2402	-3.684	125	20.97	Pass
EDR (π/4-DQPSK)	Middle	2441	-0.059	125	20.97	Pass
	High	2480	0.035	125	20.97	Pass
	Low	2402	-3.091	125	20.97	Pass
EDR (8DPSK)	Middle	2441	0.405	125	20.97	Pass
(32: 31)	High	2480	0.487	125	20.97	Pass

GFSK Mode

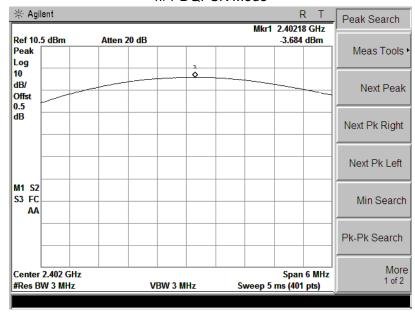


Ch₀

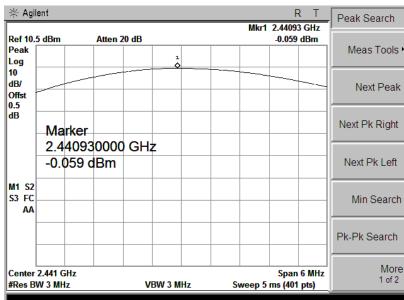


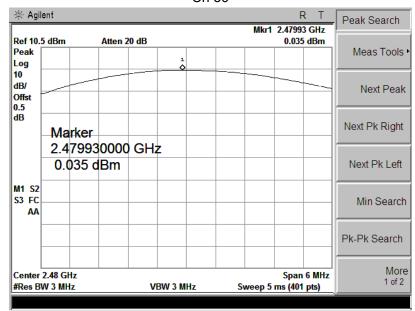


π/4-DQPSK Mode

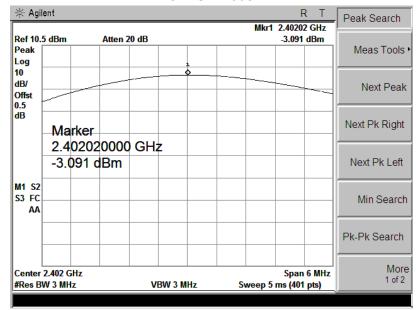


Ch₀

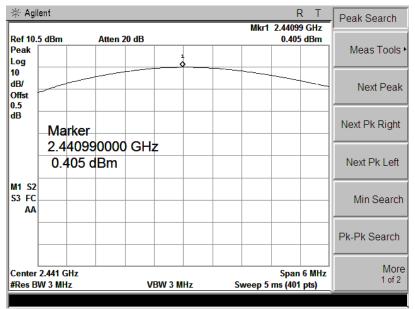


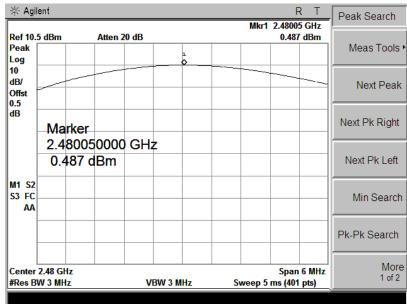


8DPSK Mode



Ch₀





5.6 20dB Emission Bandwidth

5.6.1 Test Requirement

The bandwidth of a frequency hopping channel is the -20 dB emission bandwidth, measured with the hopping stopped.

5.6.2 Test Procedure

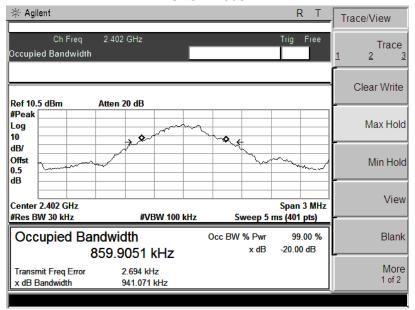
- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

5.6.3 Test Result

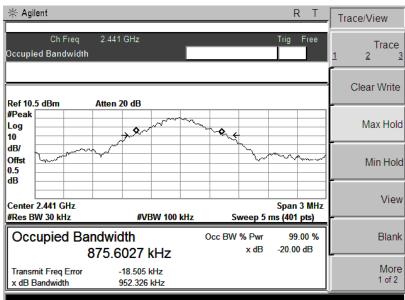
Test Item:	20dB Emission Bandwidth	Temperature :	23°C
Test Engineer:	Kang	Relative Humidity :	65%

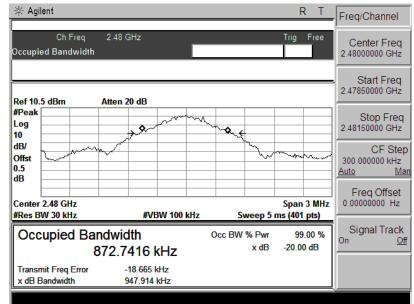
Mode	Channel	Frequency (MHz)	20dB Bandwidth(MHz)
DDD	Low	2402	0.941
BDR (GFSK)	Middle	2441	0.952
(Of Oit)	High	2480	0.947
EDD	Low	2402	1.256
EDR (π/4-DQPSK)	Middle	2441	1.228
	High	2480	1.226
EDD	Low	2402	1.266
EDR (8DPSK)	Middle	2441	1.264
(ODPSK)	High	2480	1.262

GFSK Mode

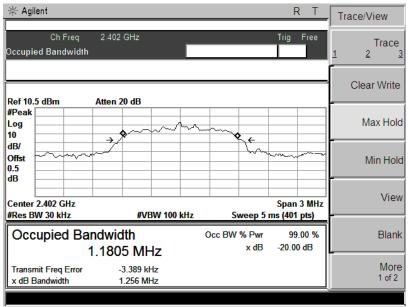


Ch₀

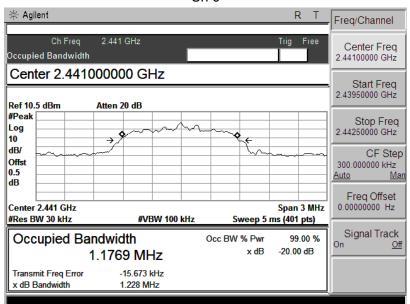


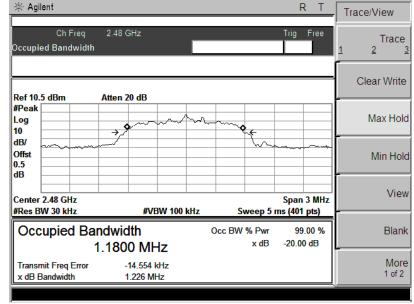


π/4-DQPSK Mode

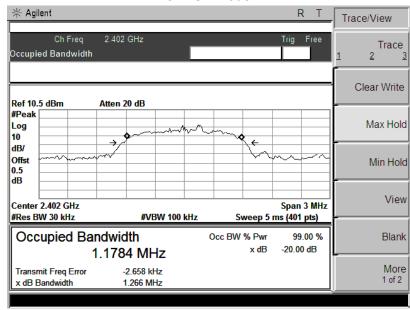


Ch₀

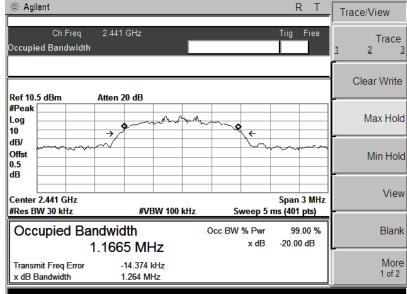


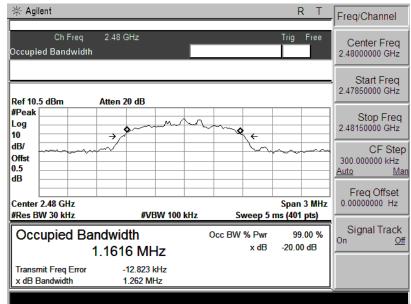


8DPSK Mode









5.7 Carrier Frequency Separation

5.7.1 Test Requirement

Frequency hopping systems shall have hoping channel carrier frequencies separated by a minimum of 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.50 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

5.7.2 Test Procedure

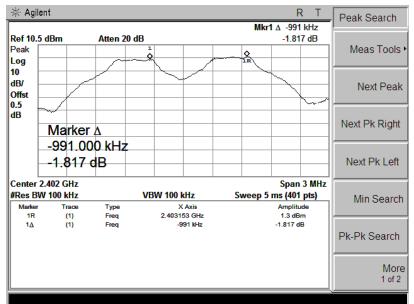
- 1.Set the EUT in transmitting mode, spectrum Bandwidth was set at 30 kHz, maxhold the channel.
- 2.Set the adjacent channel of the EUT maxhold another trace
- 3. Measure the channel separation.

5.7.3 Test Result

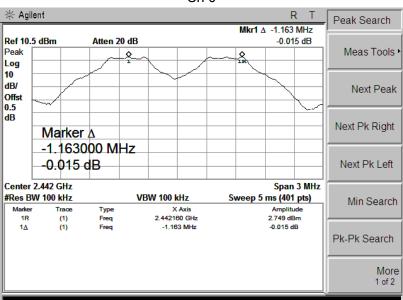
Test Item:	Carrier Frequency Separation	Temperature :	23°C	
Test Engineer:	Kang	Relative Humidity :	65%	

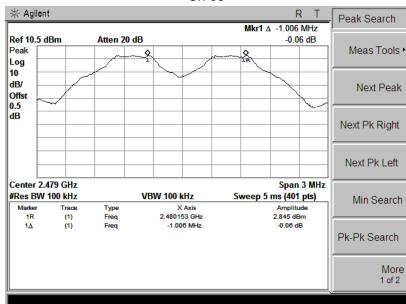
Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
DDD	Low	2402	0.991	0.627	Pass
BDR (GFSK)	Middle	2441	1.163	0.635	Pass
(01 011)	High	2480	1.006	0.631	Pass
EDD	Low	2402	0.991	0.837	Pass
EDR (π/4-DQPSK)	Middle	2441	0.998	0.819	Pass
(1.74-DQI 3IX)	High	2480	0.991	0.817	Pass
EDD	Low	2402	1.013	0.844	Pass
EDR (8DPSK)	Middle	2441	1.013	0.843	Pass
(001-314)	High	2480	1.005	0.841	Pass

GFSK Mode

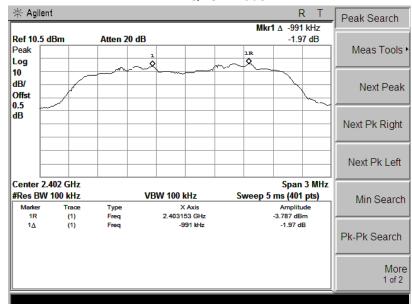


Ch₀

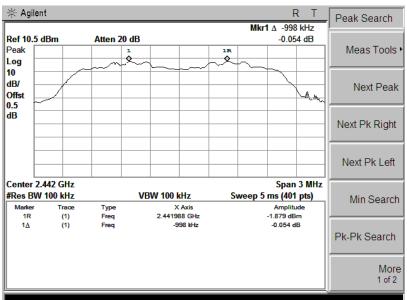


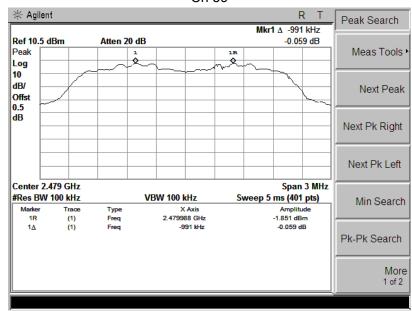


π/4-DQPSK Mode

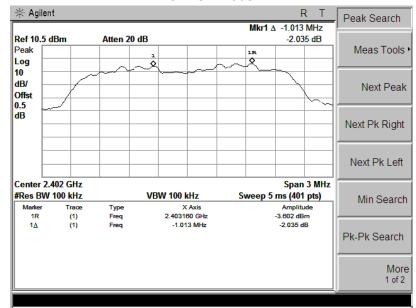


Ch₀

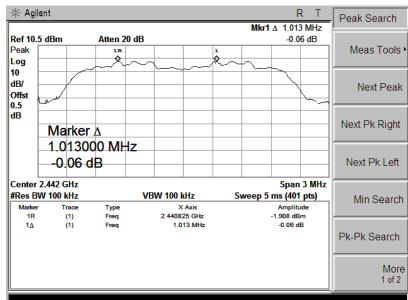


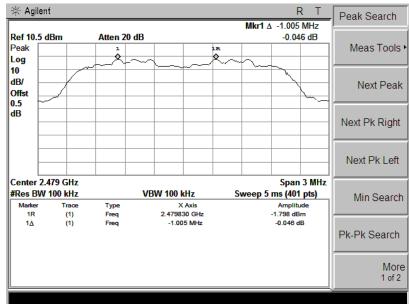


8DPSK Mode



Ch₀





5.8 Number of Hopping Channel

5.8.1 Test Requirement

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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

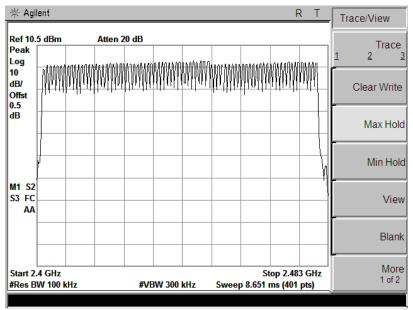
5.8.2 Test Procedure

- 1.Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- 2. Set the EUT in hopping mode from first channel to last.
- 3. By using the Max-Hold function record the Quantity of the channel.

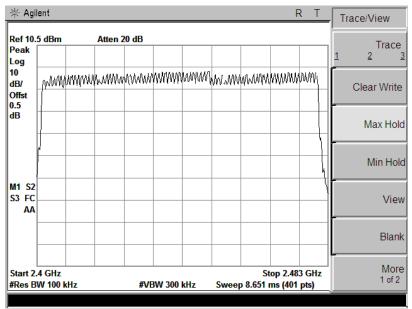
5.8.3 Test Result

Test Item:	Number of Hopping Channel	Temperature :	23°C
Test Engineer:	Kang	Relative Humidity :	65%

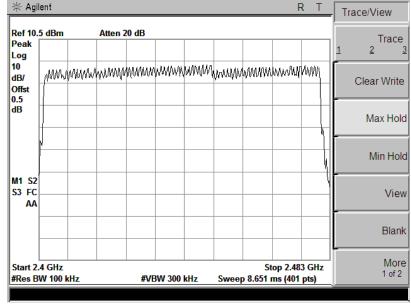
Mode	Frequency Range (MHz)	Number of Hopping Channel	Limit
GFSK	2400-2483.5	79	≥15
π /4-DQPSK	2400-2483.5	79	≥15
8DPSK	2400-2483.5	79	≥15



GFSK Mode



π/4-DQPSK



8DPSK Mode

5.9 Dwell Time

5.9.1 Test Requirement

Frequency hopping systems in the 2400-2483.5 MHz 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.9.2 Test Procedure

The EUT was worked in channel hopping; Spectrum SPAN was set as 0. Sweep was set as 0.4 * channel no. (s), the quantity of pulse was get from single sweep. In addition, the time of single pulses was tested.

Dwell Time= time slot length * hope rate/ number of hopping channels * 31.6s Hop rate=1600/s

5.9.3 Test Result

Test Item:	Dwell Time	Temperature :	25°C
Test Engineer:	Henry	Relative Humidity :	65%

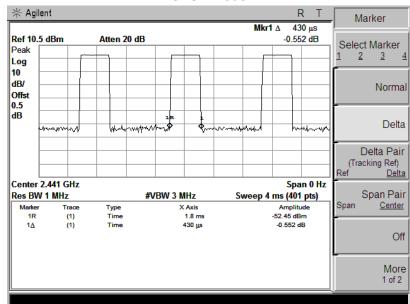
Mode	Packet	Pulse Time (ms)	Dwell Time(ms)	Limit(ms)	Result
	DH1	0.43	137.6	400	Pass
GFSK	DH3	1.69	270.4	400	Pass
	DH5	2.94	313.6	400	Pass
	2DH1	0.45	144.0	400	Pass
π /4DQPSK	2DH3	1.69	270.4	400	Pass
	2DH5	2.95	314.7	400	Pass
	3DH1	0.44	140.8	400	Pass
8DPSK	3DH3	1.70	272.0	400	Pass
	3DH5	2.95	314.7	400	Pass

Note: DH1/2DH1/3DH1: Dwell Time=Pulse Time(ms)X[(1600/2/79)X31.6]

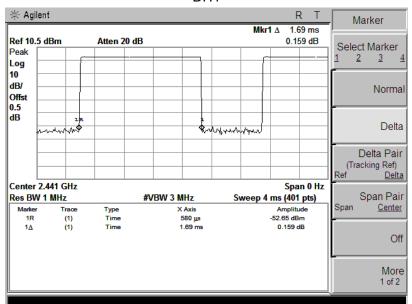
DH3/2DH3/3DH3: Dwell Time= Pulse Time(ms)X[(1600/4/79)X31.6]

DH5/2DH5/3DH5: Dwell Time= Pulse Time(ms)X[(1600/6/79)X31.6]

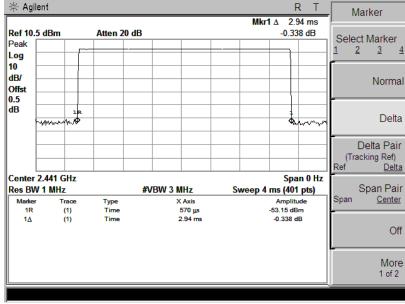
GFSK Mode



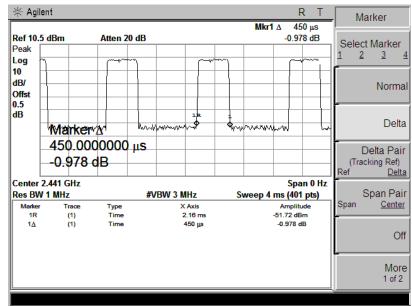
DH1



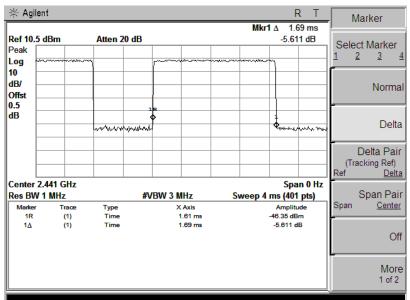
DH3



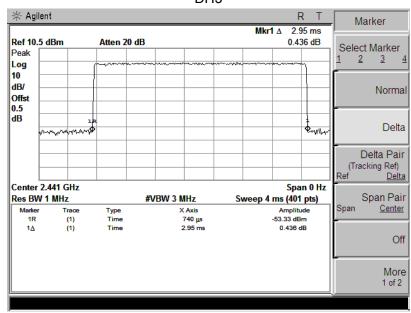
π/4-DQPSK Mode



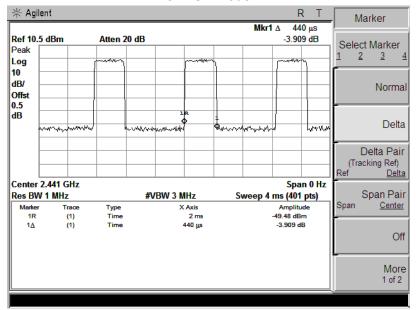
DH1



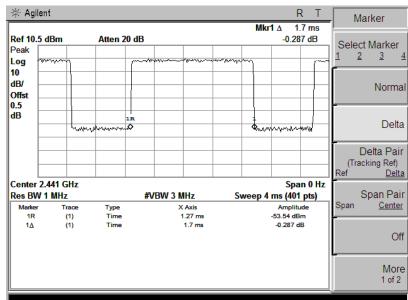
DH3



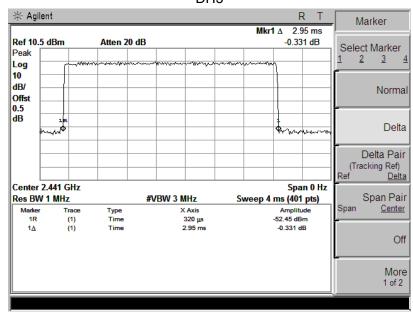
8DPSK Mode



DH1



DH3



5.9 Band Edge and Conducted Spurious Emissions 5.9.1 Test Requirement

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

5.9.2 Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

5.9.3 Test Result

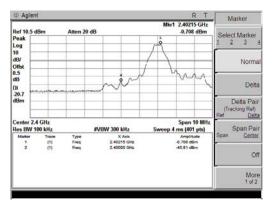
Pass

Remark:

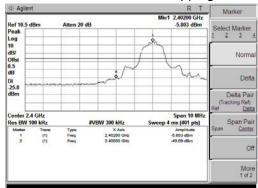
During the Conducted Spurious Emissions test, pre-scan the GFSK, $\pi/4$ -QPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case.

Test Item:	Band Edge	Temperature :	23°C
Test Engineer:	Kang	Relative Humidity :	65%

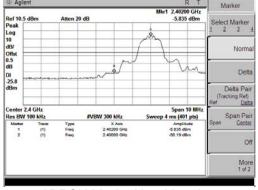
Band Edge, Left Side



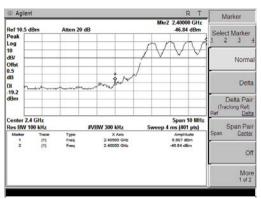
GFSK Mode, Non-Hopping



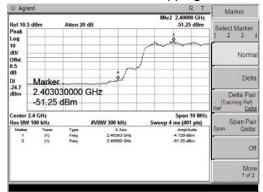
$\pi/4$ -DQPSK Mode, Non-Hopping



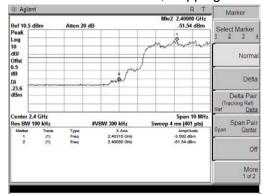
8DPSK Mode, Non-Hopping



GFSK Mode, Hopping

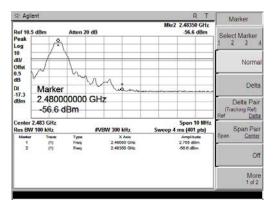


π/4-DQPSK Mode, Hopping

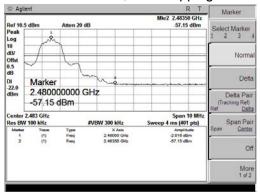


8DPSK Mode, Hopping

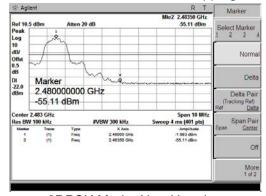
Band Edge, Right Side



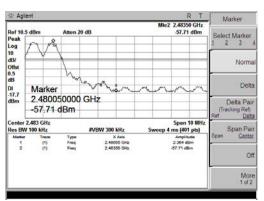
GFSK Mode, Non-Hopping



 $\pi/4$ -DQPSK Mode, Non-Hopping



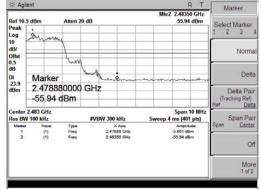
8DPSK Mode, Non-Hopping



GFSK Mode, Hopping

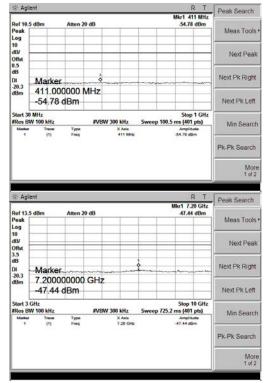


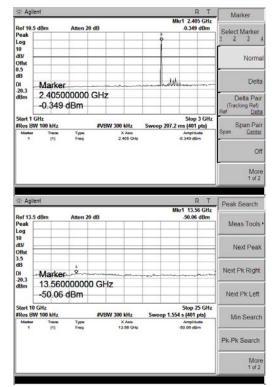
π/4-DQPSK Mode, Hopping



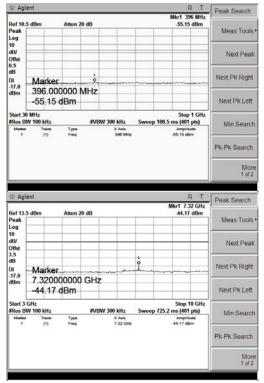
8DPSK Mode, Hopping

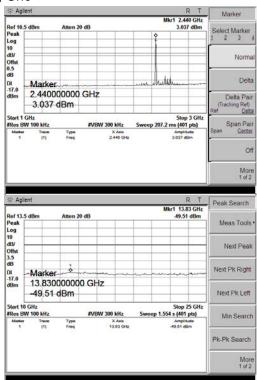
Conducted Spurious Emissions





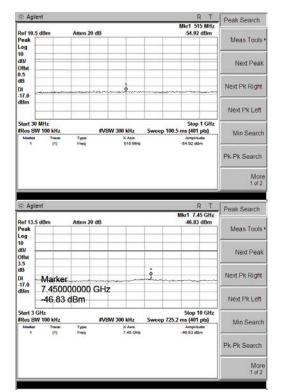
GFSK Mode, Ch0

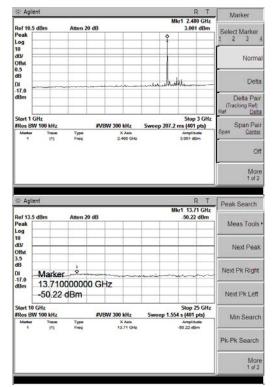




GFSK Mode, Ch39

Conducted Spurious Emissions





GFSK Mode, Ch78

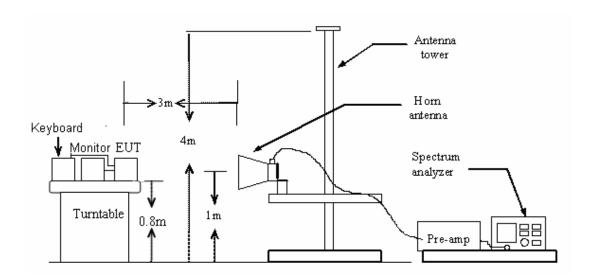
5.10 Restricted Frequency Bands

5.10.1 Test Requirement

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.10.2 Test Configuration

Test Setup:



5.10.3 Test Procedure:

- 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. 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 and the table was turned from 0 degrees to 360 degrees to find the maximum reading.

5.10.4 Test Result

Pass

Note: All test modes are performed, only the worst case is recorded in this report.

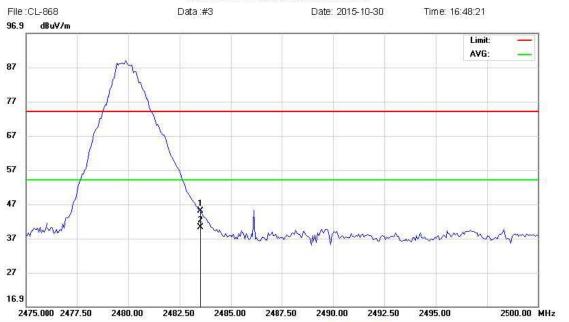
Please refer the following plots.



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement



Site site #1

Limit: FCC RF LIMIT PEAK

EUT: Bluetooth keyboard

M/N: CL-868 Mode: GFSK-CH78

Note:

Polarization: Horizontal
Power: DC 3.7V by Battery

Temperature: 24
Humidity: 54 %

Distance: 3m

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	2483,500	53.38	-8.29	45.09	74.00	-28.91	peak			
2 *	2483.500	48.52	-8.29	40.23	54.00	-13.77	AVG			

Engineer Signature:

lidegan

^{*:}Maximum data | x:Over limit | 1:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement File:CL-868 Data:#4 Date: 2015-10-30 Time: 16:59:35 96.9 dBuV/m Limit: AVG: 87 77 67 57 47 37 27

Site site #1

16.9

Limit: FCC RF LIMIT PEAK

2475.000 2477.50

2480.00

2482.50

2485.00

EUT: Bluetooth keyboard

M/N: CL-868 Mode: GFSK-CH78

Note:

Polarization: Vertical Power: DC 3.7V by Battery

2487.50

2492.50

2490.00

Temperature: 24

Humidity.

54 %

2500.00 MHz

Distance: 3m

2495.00

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBu∨/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	59.14	-8.29	50.85	74.00	-23,15	peak			
2	*	2483.500	54.55	-8.29	46.26	54.00	-7.74	AVG			

Engineer Signature:

lidegan

^{*:}Maximum data x:Over limit I:over margin

54 %



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement File:CL-868 Data:#5 Date: 2015-10-30 Time: 17:07:03 96.9 dBuV/m Limit: AVG: 87 77 67 57 47 37 27 16.9 2310.000 2320.00 2330.00 2340.00 2350.00 2360.00 2370.00 2380.00 2390.00 2410.00 MHz

Site site #1

Limit: FCC RF LIMIT PEAK

EUT: Bluetooth keyboard

M/N: CL-868 Mode: GFSK-CH0

Note:

Temperature: 24 Polarization: Vertical Power: DC 3.7V by Battery Humidity:

Distance: 3m

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu√	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	2390,000	45.24	-8.43	36.81	74.00	-37.19	peak			
2 *	2390.000	40.37	-8.43	31.94	54.00	-22.06	AVG			

Engineer Signature:

lidegan

^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement File:CL-868 Data:#6 Date: 2015-10-30 Time: 17:19:35 96.9 dBuV/m Limit: AVG: 87 77 67 57 47 37 27 16.9 2310.000 2320.00 2330.00 2340.00 2350.00 2360.00 2370.00 2380.00 2390.00 2410.00 MHz

Site site #1

Limit: FCC RF LIMIT PEAK

EUT: Bluetooth keyboard

M/N: CL-868 Mode: GFSK-CH0

Note:

Polarization: Horizontal
Power: DC 3.7V by Battery

y Humidity. 54 %

Temperature: 24

Distance: 3m

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu√	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	45.10	-8.43	36.67	74.00	-37.33	peak			
2	*	2390.000	40.38	-8.43	31.95	54.00	-22.05	AVG			

Engineer Signature: lide gan

^{*:}Maximum data x:Over limit !:over margin