

# FCC TEST REPORT No. 161101315SHA-001

Applicant : NINGBO DONGXING ELECTRIC CO.,LTD.

Fenglin Industrial Development Zone, Qiaotou

Town, Cixi, Ningbo, Zhejiang, China

Manufacturer site : NINGBO DONGXING ELECTRIC CO.,LTD.

Fenglin Industrial Development Zone, Qiaotou

Town, Cixi, Ningbo, Zhejiang, China

Product Name : BLE module

Type/Model: T8267T

**TEST RESULT: PASS** 

#### **SUMMARY**

The equipment complies with the requirements according to the following standard(s) or specification:

**47CFR Part 15 (2015):** Radio Frequency Devices

**ANSI C63.10 (2013):** American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

RSS-247 Issue 1 (May 2015): Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

**RSS-Gen Issue 4 (December 2014):** General Requirements for Compliance of Radio Apparatus

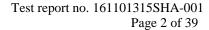
Date of issue: December 18, 2016

Prepared by: Reviewed by:

Nemo Li (*Project Engineer*) Daniel Zhao (*Reviewer*)

FCC ID: 2AKEQ-T8267T IC: 22176-T8267T

Nem li





# **Description of Test Facility**

Name: Intertek Testing Service Limited Shanghai

Address: Building No.86, 1198 Qinzhou Road(North), Shanghai 200233, P.R.

China

FCC Registration Number: 236597

IC Assigned Code: 2402B-1

Name of contact: Jonny Jing

Tel: 86 21 61278271 Fax: 86 21 54262353



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#### 1 GENERAL INFORMATION

## 1.1 Description of Client

Applicant : NINGBO DONGXING ELECTRIC CO.,LTD.

Fenglin Industrial Development Zone, Qiaotou Town,

Cixi, Ningbo, Zhejiang, China

Manufacturer site : Ningbo Dongxing Electric Co., Ltd.

Fenglin Industrial Development Zone, Qiaotou Town,

Cixi, Ningbo, Zhejiang

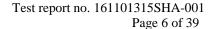
#### 1.2 Identification of the EUT

Product Name : BLE module

Type/model: T8267T

FCC ID : 2AKEQ-T8267T

IC : 22176-T8267T





## 1.3 Technical Specification

Operation Frequency : 2402 - 2480 MHz

Band

Protocol: Bluetooth BLE

Type of Modulation : GFSK

Channel Number : 40 channels

Description of EUT : EUT is a wireless module, and has only one model.

Antenna PCB antenna, 0dBi max

Rating 3.3V DC

Floor standing

Sample received date : November 22, 2016

Date of test : November 22, 2016 ~ December 16, 2016



## 2 TEST SPECIFICATIONS

## 2.1 Standards or specification

47CFR Part 15 (2015) RSS-247 Issue 1 (May 2015) RSS-Gen Issue 4 (December 2014) ANSI C63.10 (2013) KDB 558074 (v03r05)

## 2.2 Mode of operation during the test

While testing transmitting mode of EUT, the internal modulation and continuously transmission was applied.

The lowest, middle and highest channel were tested as representatives.

Freq. Band (MHz)	Modulation	Lowest (MHz)	Middle (MHz)	Highest (MHz)
2400-2483.5	GFSK	2402	2440	2480

## 2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

## 2.4 Test peripherals list

Item No.	Name	Band and Model	Description
1	Laptop computer	HP, EliteBook 2530P	-



## 2.5 Instrument list

Selected	Instrument	EC no.	Model	Valid until date
	Shielded room	EC 2838	GB88	2017-1-8
	EMI test receiver	EC 2107	ESCS 30	2017-10-19
	A.M.N.	EC 3119	ESH2-Z5	2016-12-16
	A.M.N.	EC 3394	ENV 216	2017-8-1
	Semi anechoic chamber	EC 3048	-	2017-5-11
$\boxtimes$	EMI test receiver	EC 3045	ESIB26	2017-10-19
$\boxtimes$	Broadband antenna	EC 4206	CBL 6112D	2017-4-27
$\boxtimes$	Horn antenna	EC 3049	HF906	2017-4-27
	Horn antenna	EC 4792-1	3117	2017-4-21
	Horn antenna	EC 4792-3	HAP18-26W	2017-6-11
$\boxtimes$	Pre-amplifier	EC 5262	pre-amp 18	2017-5-25
	Pre-amplifier	EC 4792-2	TPA0118-40	2017-4-10
	Test Receiver	EC 4501	ESCI 7	2017-1-13
$\boxtimes$	PXA Signal Analyzer	EC5338	N9030A	2017-11-17
$\boxtimes$	Power sensor/Power met	ter EC4318	N1911A/N1921	A 2017-4-8
	Power sensor	EC5338-1	U2021XA	2017-3-5
	MXG Analog Signal Ge	nerator EC53	38-2 N5181A	2017-3-5
	MXG Vector Signal Ger	nerator EC51	75 N51812B	2017-1-8



#### 2.6 Test Summary

This report applies to tested sample only. The test results have been compared directly with the limits, and the measurement uncertainty is recorded. This report shall not be reproduced in part without written approval of Intertek Testing Service Shanghai Limited.

TEST ITEM	FCC REFERANCE	IC REFERANCE	RESULT
Minimum 6dB Bandwidth	15.247(a)(2)	RSS-247 Issue 1 Annex 5.2	Pass
Maximum peak output power	15.247(b)	RSS-247 Issue 1 Annex 5.4	Pass
Power spectrum density	15.247(e)	RSS-247 Issue 1 Annex 5.2	Pass
Radiated Emissions in restricted frequency bands	15.205 & 15.209	RSS-Gen Issue 4 Clause 8.9	Pass
Emission outside the frequency band	1 15 247(d)		Pass
Power line conducted emission	15.207		NA
Antenna requirement	Antenna requirement 15.203		Pass
Occupied bandwidth -		RSS-Gen Issue 4 Clause 6.6	Tested

Notes: 1: NA =Not Applicable

2: This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



## 2.7 Measurement uncertainty

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

TEST ITEM	MEASUREMENT UNCERTAINTY
Maximum peak output power	± 0.74dB
Radiated Emissions in restricted frequency bands below 1GHz	± 4.90dB
Radiated Emissions in restricted frequency bands above 1GHz	± 5.02dB
Emission outside the frequency band	± 2.89dB
Power line conducted emission	± 3.19dB



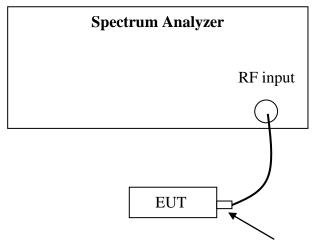
### 3 Minimum 6dB Bandwidth

Test result: Pass

#### 3.1 Limit

For systems using digital modulation techniques that may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands, the minimum 6 dB bandwidth shall be at least 500 kHz.

### 3.2 Test Configuration



Antenna connector

#### 3.3 Test Procedure and test setup

The minimum 6dB bandwidth per FCC §15.247(a)(2) is measured using the Spectrum Analyzer according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance" for compliance to FCC 47CFR 15.247 requirements(clause 8.2).

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\geq 3 \times RBW$ .
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



#### 3.4 Test Protocol

Temperature: 22°C Relative Humidity: 54%

Mode	Mode Channel Minimum 6dB Ban (MHz)		Limits (MHz)
	L	0.7962	≥ 0.5
-	M	0.7982	≥ 0.5
	Н	0.8032	≥ 0.5

## Channel L









### Channel H





## 4 Maximum Conducted Output power

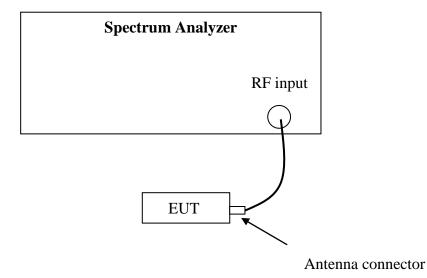
**Test result:** Pass

## 4.1 Test limit

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
For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt (EIRP: 4 watt).

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. If there have a beam forming type, the limit should be the minimum of 30dBm and 30+ (6—antenna gain-beam forming gain).

## **4.2** Test Configuration





## 4.3 Test procedure and test setup

The EUT was tested according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance" for compliance to FCC 47CFR 15.247 requirements.

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.



## 4.4 Test protocol

Temperature: 22 °C Relative Humidity: 54 %

Mode	Channel	Conducted Power (dBm)	Limit (dBm)
	L	6.022	30
-	M	5.875	30
	Н	5.467	30

The maximum EIRP of the EUT = 6.022dBm + 0dBi = 6.022dBm = 4.00mW which is lower than the EIRP limit of RSS-247.



## 5 Power spectrum density

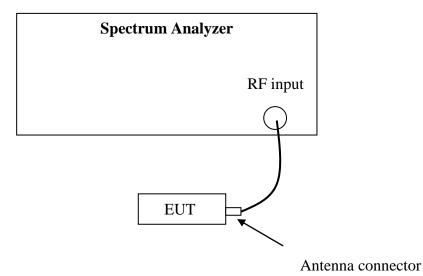
**Test result:** Pass

#### 5.1 Test limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. If there have a beam forming type, the limit should be the minimum of 8dBm/MHz and 8+ (6 –antenna gain-beam forming gain).

## **5.2** Test Configuration





## 5.3 Test procedure and test setup

The power output per FCC §15.247(e) was tested according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance" (clause 10.2) for compliance to FCC 47CFR 15.247 requirements.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to:  $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$ .
- d) Set the VBW  $\geq$  3 × RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



#### 5.4 Test Protocol

Temperature: 22°C Relative Humidity: 54%

Mode	Channel	PSD (dBm)	RBW (kHz)	Limit (dBm)
	L	5.747	100	8
-	М	5.713	100	8
	Н	5.394	100	8











#### Channel H





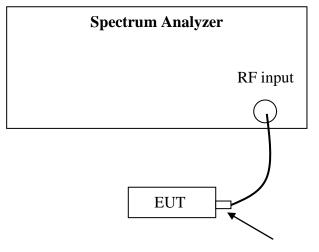
## 6 Emission outside the frequency band

**Test result:** Pass

#### 6.1 Test limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

#### **6.2** Test Configuration



Antenna connector

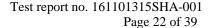
#### 6.3 Test procedure and test setup

The EUT was tested according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance" (clause 11.0) for compliance to FCC 47CFR 15.247 requirements.

#### Reference level measurement

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to  $\geq 1.5$  times the *DTS bandwidth*.
- c) Set the RBW = 100 kHz.
- d) Set the VBW  $\geq$  3 x RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.





- h) Allow trace to fully stabilize.
- i) 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.

#### **Emission level measurement**

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW  $\geq$  3 x RBW.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

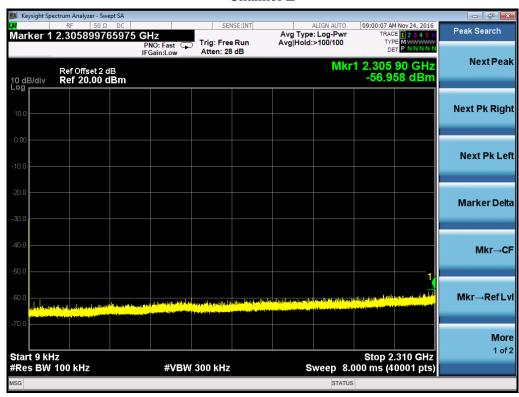


#### 6.4 Test Protocol

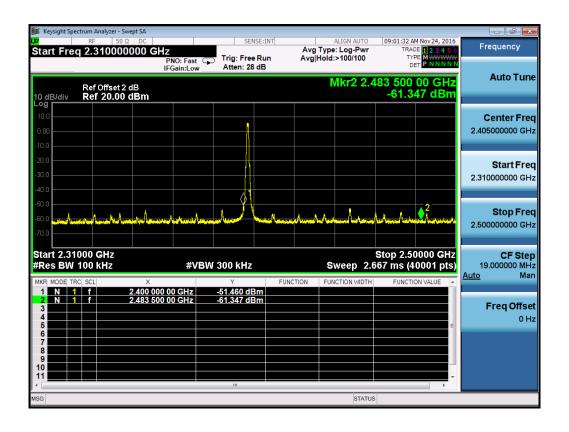
Temperature: 22°C Relative Humidity: 54%

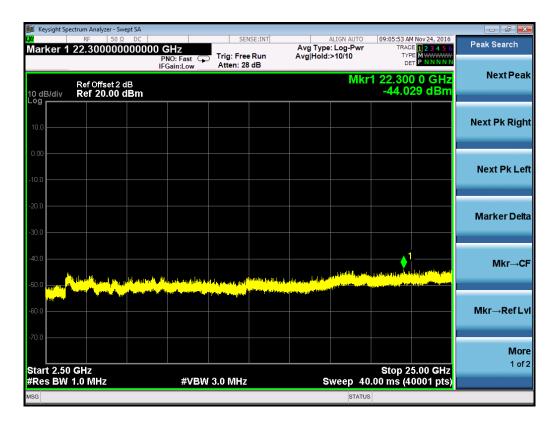
Mode	Channel	Reference Level (dBm)	Emission Level (dBm)	Limit (dBm)	Result
	L	5.747	-44.029	≥20	Pass
-	M	5.713	-43.979	≥20	Pass
	Н	5.394	-43.761	≥20	Pass

## Channel L



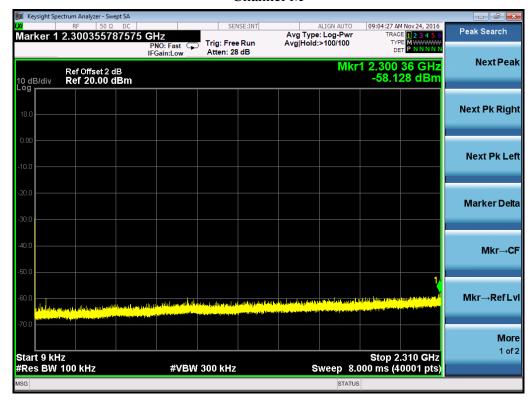


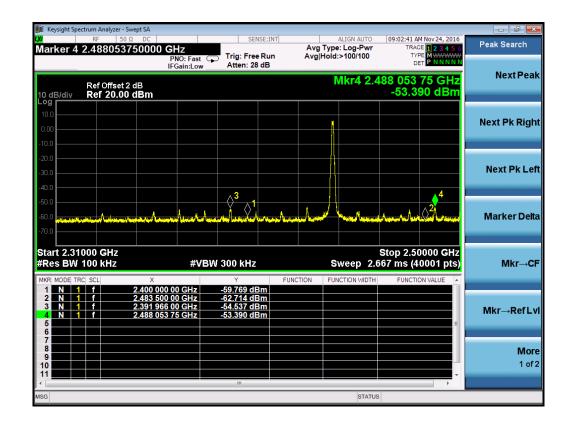




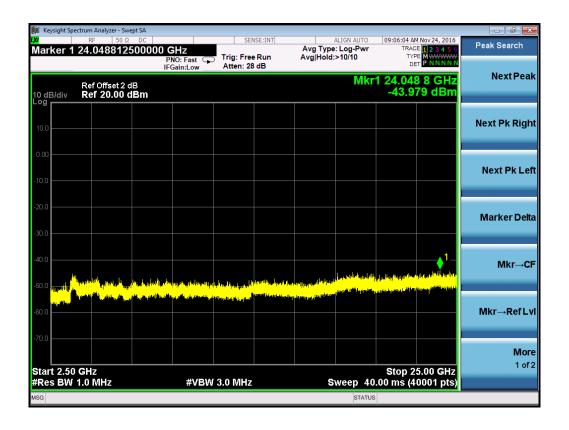


#### Channel M





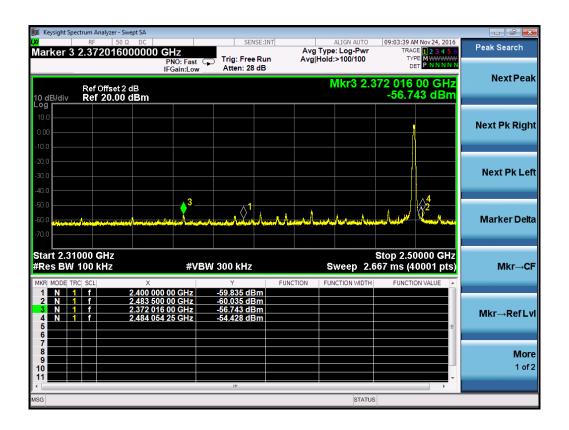


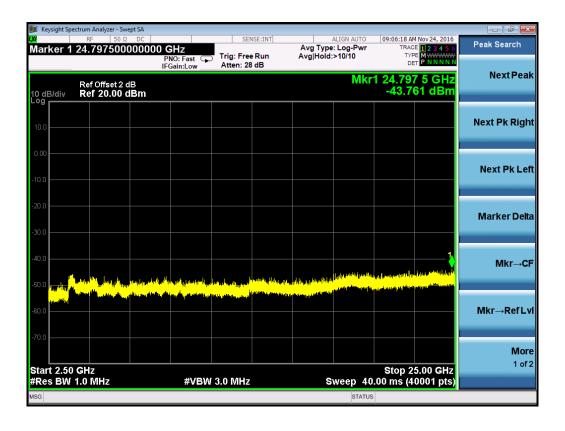


#### Channel H











## 7 Radiated Emissions in restricted frequency bands

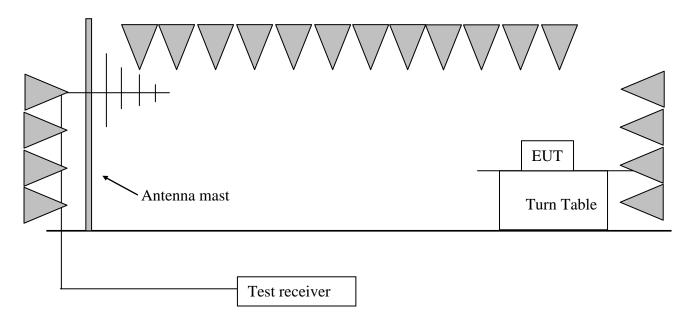
**Test result:** Pass

#### 7.1 Test limit

The 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) showed as below:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

## 7.2 Test Configuration





#### 7.3 Test procedure and test setup

The measurement was applied in a semi-anechoic chamber. While testing for spurious emission higher than 1GHz, if applied, the pre-amplifier would be equipped just at the output terminal of the antenna.

Tabletop devices shall be placed on a nonconducting platform with nominal top surface dimensions 1 m by 1.5 m. For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m.

The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mast. The antenna moved up and down between from 1meter to 4 meters to find out the maximum emission level.

The EUT was tested according to DTS test procedure of KDB558074 D01 DTS "Meas Guidance" for compliance to FCC 47CFR 15.247 requirements.

The radiated emission was measured using the Spectrum Analyzer with the resolutions bandwidth set as:

```
RBW = 300 Hz, VBW = 1 kHz (9 kHz~150 kHz);

RBW = 10 kHz, VBW = 30 kHz (150 kHz~30MHz);

RBW = 100 kHz, VBW = 300 kHz (30MHz~1GHz for PK)

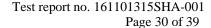
RBW = 1MHz, VBW = 3MHz (>1GHz for PK);
```

#### Remark:

- 1. Factor= Antenna Factor + Cable Loss (-Amplifier, is employed)
- 2. Measured level= Original Receiver Reading + Factor
- 3. Margin = Limit Measured level
- 4. If the PK measured level is lower than AV limit, the AV test can be elided.

#### Example:

```
Assuming Antenna Factor = 30.20 dB/m, Cable Loss = 2.00 dB, Gain of Preamplifier = 32.00 dB, Original Receiver Reading = 10 dBuV. Then Factor = 30.20 + 2.00 - 32.00 = 0.20 dB/m; Measured level = 10 dBuV + 0.20 dB/m = 10.20 dBuV/m Assuming limit = 54 dBuV/m, Measured level = 10.20 dBuV/m, then Margin = 54 - 10.20 = 43.80 dBuV/m.
```





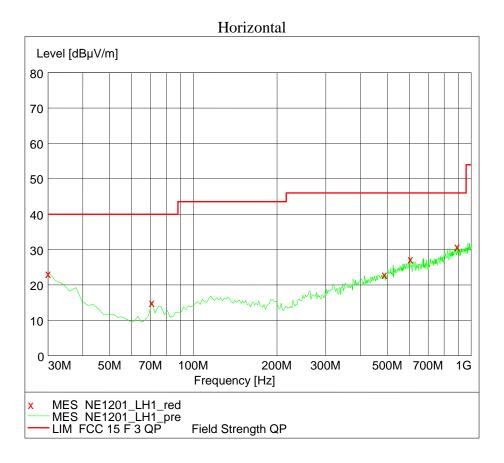
#### 7.4 Test Protocol

Temperature: 22°C Relative Humidity: 54%

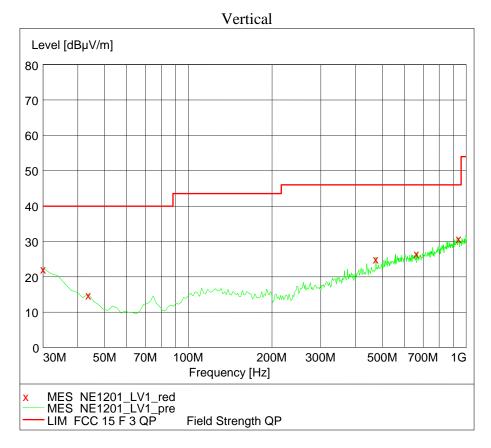
All the two models of product were tested and the worst data was listed in the report.

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

The worst waveform from 30MHz to 1000MHz is listed as below:







Note: The worst test result (30MHz to 1GHz) of channel L (2402MHz) chosen to list in the report as representative.

## Test result from 30MHz to 1000MHz:

Polarization	Frequency	Corrected	Correct	Limit	Margin	Detector
	(MHz)	Reading	Factor	(dBuV/m)	(dB)	
		(dBuV/m)	(dB/m)			
	30.00	23.50	21.0	40.0	16.50	PK
Н	603.45	27.50	21.8	46.0	18.50	PK
	889.20	31.00	24.7	46.0	15.00	PK
	30.00	22.30	21.0	40.0	17.70	PK
V	661.76	26.80	22.2	46.0	19.20	PK
	937.80	31.00	25.2	46.0	15.0	PK



#### Test result above 1GHz:

Channel	Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
	Н	2402.20	99.80	34.34	Fundamental	/	PK
	Н	2390.00	49.50	34.29	74.00	24.50	PK
L	Н	4804.21	56.50	2.10	74.00	34.20	PK
L	Н	4804.21	52.00	2.10	54.00	2.00	AV
	Н	9607.44	58.30	13.4	74.00	15.70	PK
	Н	9607.44	48.00	13.4	54.00	6.00	AV
	Н	2440.28	99.70	34.48	Fundamental	/	PK
M	Н	4880.73	51.60	2.10	74.00	22.40	PK
	Н	9760.53	52.80	13.5	54.00	1.20	AV
	Н	2479.98	98.90	34.62	Fundamental	/	PK
Н	Н	2483.50	46.00	34.63	74.00	20.05	PK
	Н	9920.83	49.90	13.7	74.00	24.10	PK

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (-Amplifier, is employed)

- 2. Corrected Reading = Original Receiver Reading + Correct Factor
- 3. Margin = limit Corrected Reading
- 4. EUT was set and tested with 100% duty cycle.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB, Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10dBuV.

Then Correct Factor = 30.20 + 2.00 - 32.00 = 0.20dB/m; Corrected Reading

= 10 dBuV + 0.20 dB/m = 10.20 dBuV/m

Assuming limit = 54dBuV/m, Corrected Reading = 10.20dBuV/m, then

Margin = 54 - 10.20 = 43.80 dBuV/m



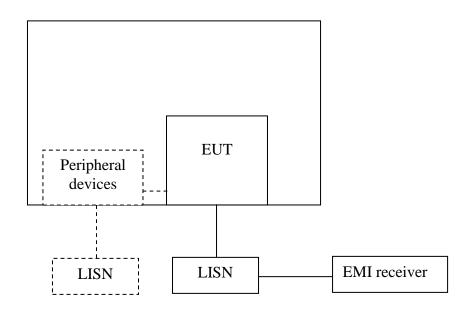
## 8 Power line conducted emission

Test result: NA

## **8.1** Limit

Frequency of Emission (MHz)	Conducted Limit (dBuV)		
	QP	AV	
0.15-0.5	66 to 56*	56 to 46 *	
0.5-5	56	46	
5-30	60	50	
* Decreases with the logarithm of the frequency.			

## 8.2 Test configuration



For table top equipment, wooden support is 0.8m height table

For floor standing equipment, wooden support is 0.1m height rack.

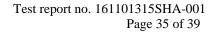


#### 8.3 Test procedure and test set up

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50  $\Omega$  LISN port (to which the EUT is connected), where permitted, terminated into a 50  $\Omega$  measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50  $\Omega$  measuring port is terminated by a measuring instrument having 50  $\Omega$  input impedance. All other ports are terminated in 50  $\Omega$  loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.





## 8.4 Test protocol

N line:

Temperature:	$^{\circ}\mathrm{C}$
Relative Humidity:	%
L line:	



## 9 Antenna 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 shall be considered sufficient to comply with the provisions of this section.

#### Result:

EUT uses permanently attached antenna to the intentional radiator, so it can comply with the provisions of this section.



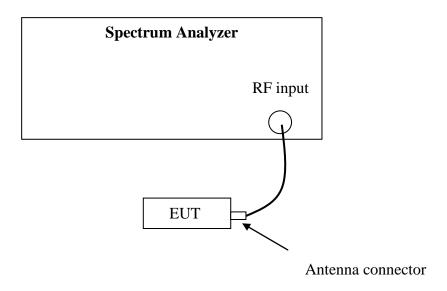
## 10 Occupied Bandwidth

**Test Status: Tested** 

## 10.1 Test limit

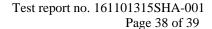
None

## **10.2 Test Configuration**



## 10.3 Test procedure and test setup

The occupied bandwidth per RSS-Gen Issue 4 Clause 6.6 was measured using the Spectrum Analyzer.



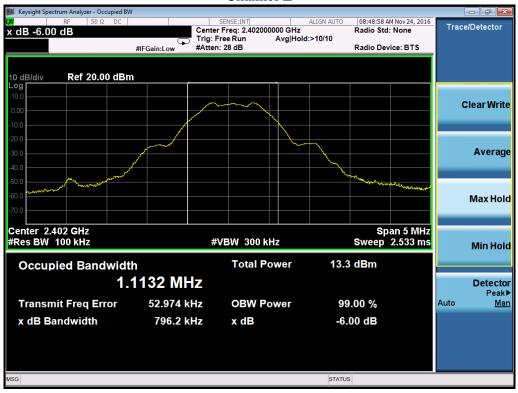


## 10.4 Test protocol

Temperature : 22 °C Relative Humidity : 54 %

Mode	Mode	99% Bandwidth (MHz)
	L	1.1132
-	M	1.1240
	Н	1.1174

## Channel L









### Channel H

