FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile Phone

BRAND NAME : BLU

MODEL NAME : Dash Jr TV

FCC ID : YHLBLUDASHJRTV

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Jun. 16, 2014 and testing was completed on Jul. 31, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

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Testing Laboratory 2353

Report No.: FR461607B

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR461607B	Rev. 01	Initial issue of report	Aug. 05, 2014

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.2	15.247(b)(1)	Peak Output Power	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	≤ 20dBc	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 16.98 dB at 2493.550 MHz
3.6 15.207		AC Conducted Emission	15.207(a)	Pass	Under limit 7.48 dB at 0.540 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

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1 General Description

1.1 Applicant

CT Asia

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

1.2 Manufacturer

Zechin Communications Co.,Ltd.

Unit804, 8th Floor Desay Tech Building Gaoxin Road South, Nanshan District Shenzhen, China

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1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Mobile Phone			
Brand Name	BLU			
Model Name	Dash Jr TV			
FCC ID	YHLBLUDASHJRTV			
	GSM/GPRS			
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/40			
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE			
HW Version	S1016-MB-V1.0			
SW Version	BLU_D140T_V14_GENERIC			
EUT Stage	Pre-Production			

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification subjective to this standard

Product Specification subjective to this standard			
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz		
Number of Channels	40		
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)		
Maximum Output Power to Antenna	0.44 dBm (0.00111 W)		
Antenna Type	PIFA Antenna type with gain 3 dBi		
Type of Modulation	Bluetooth LE : GFSK		

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1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.				
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C. TEL: +86-755-3320-2398				
Test Site No.		Sporton Site No	0.	FCC Registration No.	
rest Site No.	TH01-SZ	03CH01-SZ	CO01-SZ	831040	

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02
- ANSI C63.4-2003

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

The RF output power was recorded in the following table:

		Bluetooth v4.0 LE RF Output Power
Channal	Frequency	Data Rate / Modulation
Channel		GFSK
		1Mbps
Ch00	2402MHz	-0.07 dBm
Ch19	2440MHz	0.30 dBm
Ch39	2480MHz	<mark>0.44</mark> <mark>dBm</mark>

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Z plane as worst plane) from all possible combinations.
- b. AC power line Conducted Emission was tested under maximum output power.

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2.2 Test Mode

The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Summary table of Test Cases				
Test Item	Data Rate / Modulation				
rest item	Bluetooth v4.0 LE / GFSK				
Conducted	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps				
TCs	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps				
ics	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps				
Radiated	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps				
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps				
TCs	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps				
AC	Made 1. CCM050 Idle Diveteeth Link WI AND ink Formhone LICD				
Conducted	Mode 1: GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB				
Emission	Cable(Charging from Adapter)				
Remark: For	Radiated TCs, The tests were performance with Adapter, Earphone, and USB Cable .				

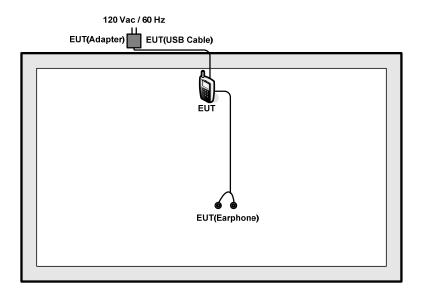
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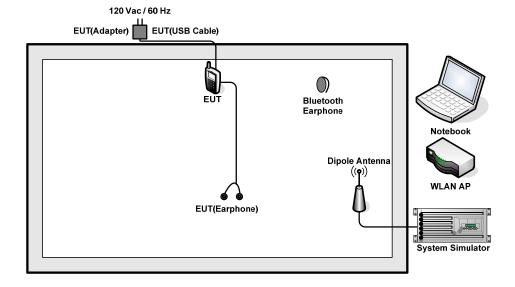
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2.3 Connection Diagram of Test System

<Bluetooth v4.0 LE Tx Mode>



<AC Conducted Emission Mode>



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2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station	R&S	CMW500	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
3.	Notebook	Lenovo	G480	PRC4	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Nokia	BH-108	PYAHS107W	N/A	N/A

2.5 EUT Operation Test Setup

For Bluetooth function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

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2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 7.5 dB and 10dB attenuator.

$$Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$$

= 7.5 + 10 = 17.5 (dB)

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Test Result 3

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

- The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02. 1.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

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- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 5. Measure and record the results in the test report.

3.1.4 Test Setup

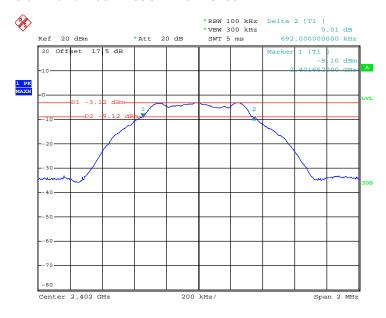


3.1.5 Test Result of 6dB Bandwidth

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
00	2402	0.692	0.5	Pass
19	2440	0.700	0.5	Pass
39	2480	0.696	0.5	Pass

6 dB Bandwidth Plot on Channel 00

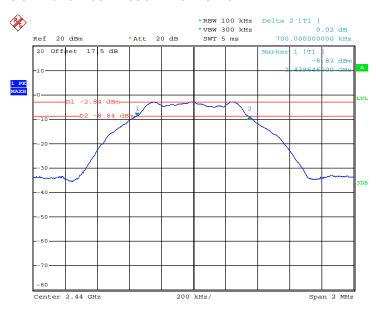


Date: 2.JUL.2014 07:30:53

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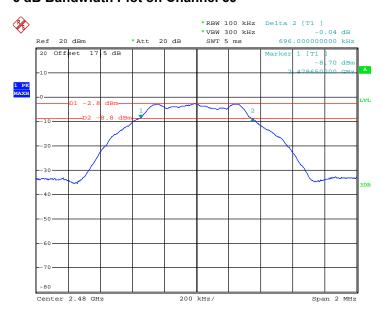
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6 dB Bandwidth Plot on Channel 19



Date: 2.JUL.2014 07:34:43

6 dB Bandwidth Plot on Channel 39



Date: 2.JUL.2014 07:38:32

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3.2 Peak Output Power Measurement

3.2.1 Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

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3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

- 1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r02.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



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3.2.5 Test Result of Peak Output Power

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

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		RF Power (dBm)					
Channel Frequency (MHz)		GFSK	Max. Limits	Dece/Feil			
	(WITZ)	1 Mbps	(dBm)	Pass/Fail			
00	2402	-0.07	30.00	Pass			
19	2440	0.30	30.00	Pass			
39	2480	0.44	30.00	Pass			

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3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

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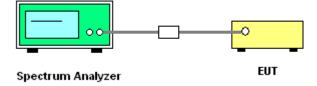
3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

- The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 6. Measure and record the results in the test report.
- 7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



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3.3.5 Test Result of Power Spectral Density

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26 ℃	
Test Engineer :	Fly Liang	Relative Humidity :	50~53%	

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Channal	Frequency	Power Density		quency Power Density Max. Lim		Max. Limits	Dage/Fail
Channel	(MHz) PSD/100kHz (dBm)		(MHz) PSD/100kHz (dBm) PSD/3kHz (dBm)		Pass/Fail		
00	2402	-3.13	-17.64	8	Pass		
19	2440	-2.85	-17.44	8	Pass		
39	2480	-2.81	-17.30	8	Pass		

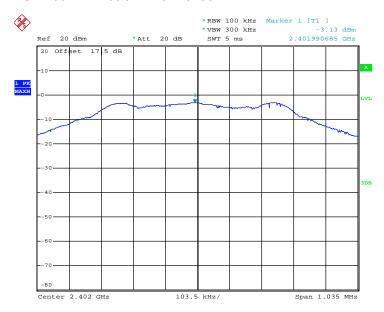
Note:

- 1. Measured power density (dBm) has offset with cable loss.
- 2. The Measured power density (dBm)/ 100kHz is reference level and used as 20dBc down for Conducted Band Edges and Conducted Spurious Emission limit line.

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3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on Channel 00

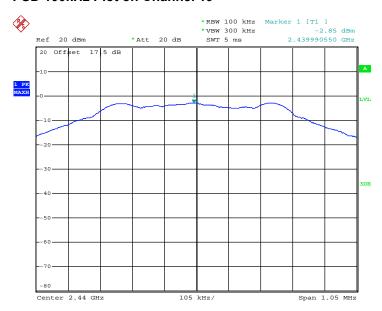


Date: 2.JUL.2014 07:31:22

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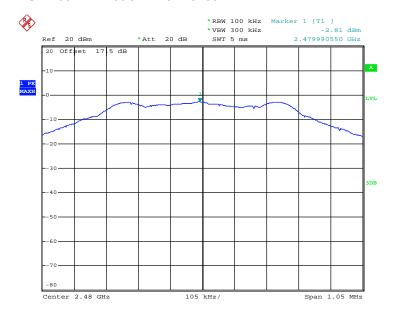
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PSD 100kHz Plot on Channel 19



Date: 2.JUL.2014 07:35:11

PSD 100kHz Plot on Channel 39



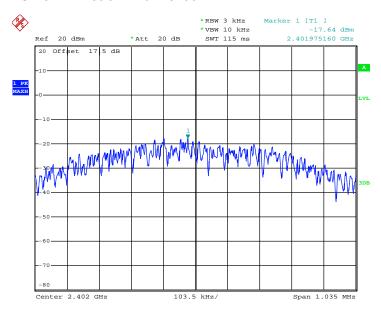
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3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on Channel 00

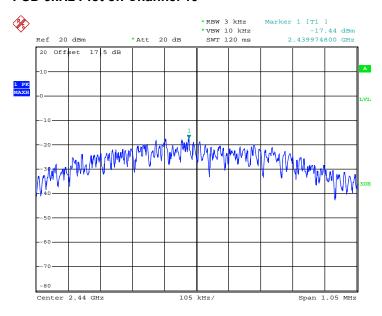


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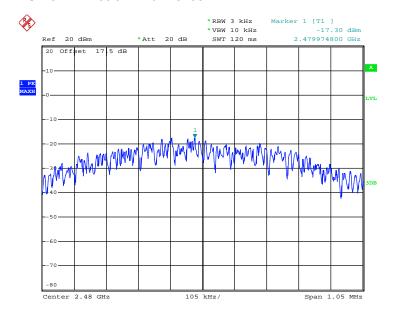
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PSD 3kHz Plot on Channel 19



Date: 2.JUL.2014 07:35:02

PSD 3kHz Plot on Channel 39



Date: 2.JUL.2014 07:38:52

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3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

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3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup

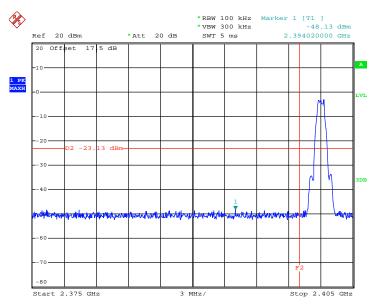


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3.4.5 Test Result of Conducted Band Edges

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26℃
Test Channel :	00 and 39	Relative Humidity :	50~53%
		Test Engineer :	Fly Liang

Low Band Edge Plot on Channel 00

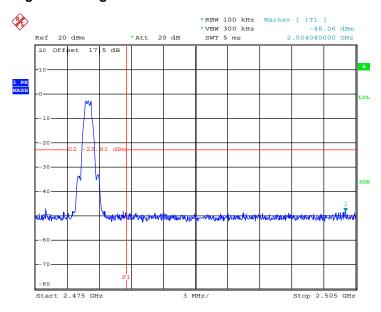


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High Band Edge Plot on Channel 39



Date: 2.JUL.2014 07:39:14

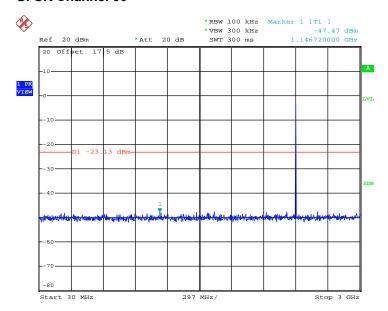
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3.4.6 Test Result of Conducted Spurious Emission

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26℃
Test Channel :	00	Relative Humidity :	50~53%
		Test Engineer :	Fly Liang

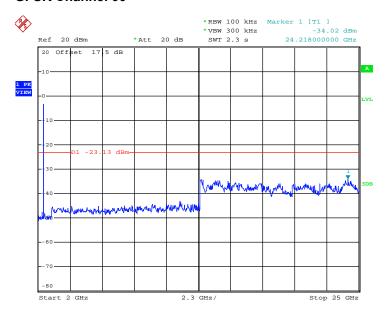
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



Date: 2.JUL.2014 07:31:55

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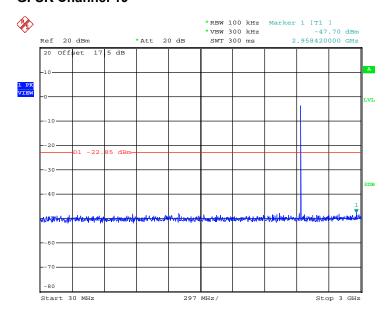


Date: 2.JUL.2014 07:32:13

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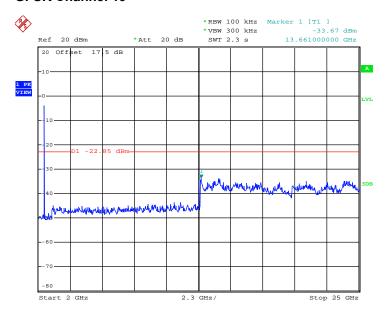
Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26℃
Test Channel :	19	Relative Humidity :	50~53%
		Test Engineer :	Fly Liang



Date: 2.JUL.2014 07:35:31

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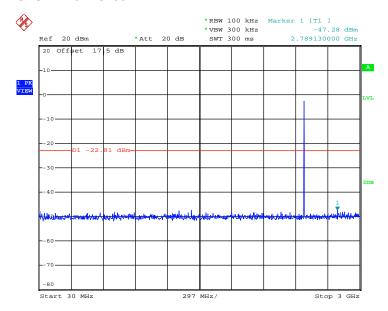


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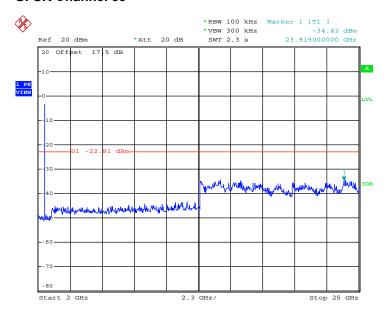
Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26℃
Test Channel :	39	Relative Humidity :	50~53%
		Test Engineer :	Fly Liang



Date: 2.JUL.2014 07:41:16

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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(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		

3.5.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

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3.5.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.

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- 3. The EUT was placed on a turntable with 0.8 meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement. For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting	
Bluetooth v4.0 LE	60.63	0.38	2.62	3kHz	

3.5.4 Test Setup

For radiated emissions below 30MHz



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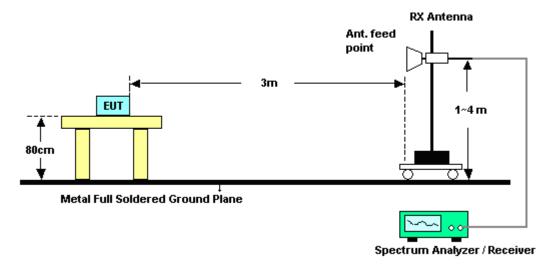
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

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.

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3.5.6 Test Result of Radiated Spurious at Band Edges

Test Mode :	Mode 1	Temperature :	23~25°C
Test Channel :	00	Relative Humidity :	48~52%
		Test Engineer :	Kear Huang

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	ANTENNA POLARITY : HORIZONTAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2386.14	46.31	-27.69	74	38.52	31.98	5.59	29.78	131	315	Peak
2375.97	36.36	-17.64	54	28.68	31.9	5.59	29.81	131	315	Average

	ANTENNA POLARITY: VERTICAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV /m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2313.33	46.54	-27.46	74	39.38	31.55	5.53	29.92	100	17	Peak
2362.47	36.16	-17.84	54	28.62	31.81	5.56	29.83	100	17	Average

Test Mode :	Mode 3	Temperature :	23~25°C
Test Channel :	39	Relative Humidity :	48~52%
		Test Engineer :	Kear Huang

	ANTENNA POLARITY : HORIZONTAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2487.94	47.17	-26.83	74	38.56	32.5	5.71	29.6	126	308	Peak
2493.55	37.02	-16.98	54	28.38	32.5	5.74	29.6	126	308	Average

	ANTENNA POLARITY: VERTICAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV /m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2490.82	47.28	-26.72	74	38.67	32.5	5.71	29.6	144	343	Peak
2484.13	36.99	-17.01	54	28.5	32.41	5.71	29.63	144	343	Average

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3.5.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Note: Pre-scanned all test modes and only choose the worst case mode recorded in the test report for radiated spurious emission below 1GHz.

Test Mode :	Mode 1		Temperature :	23~25°C			
Test Channel :	00		Relative Humidity :	48~52%			
Test Engineer :	Kea	r Huang	Polarization :	Horizontal			
	1.	2402 MHz is fundamental signal which can be ignored.					
Remark :	2.	Average measurement was not performed if peak level went lower than the					
		average limit.					

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2402	90.03	-	-	82.21	31.98	5.62	29.78	131	315	Peak
2402	89.13	-	-	81.31	31.98	5.62	29.78	131	315	Average
4804	45.87	-28.13	74	32.84	33.78	8.33	29.08	119	148	Peak

Note: Other harmonics are lower than background noise.

Test Mode :	Mode 1	Temperature :	23~25°C				
Test Channel :	00	Relative Humidity :	48~52%				
Test Engineer :	Kear Huang	Polarization :	Vertical				
	1. 2402 MHz is fundament	2402 MHz is fundamental signal which can be ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2402	75.83	-	-	68.01	31.98	5.62	29.78	100	17	Peak
2402	75.18	-	-	67.36	31.98	5.62	29.78	100	17	Average
4804	45.37	-28.63	74	32.34	33.78	8.33	29.08	119	148	Peak

Note: Other harmonics are lower than background noise.

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Test Mode :	Mode 2	Temperature :	23~25°C			
Test Channel :	19	Relative Humidity :	48~52%			
Test Engineer :	Kear Huang	Polarization :	Horizontal			
	1. 2440 MHz is fundament	al signal which can be	ignored.			
Remark :	2. Average measurement was not performed if peak level went lower that					
	average limit.	average limit.				

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2440	89.7	-	-	81.5	32.24	5.65	29.69	131	309	Peak
2440	88.87	-	-	80.67	32.24	5.65	29.69	131	309	Average
4880	48.17	-25.83	74	34.87	33.93	8.41	29.04	110	245	Peak
7320	33.36	-40.64	74	46.62	33.9	10	57.16	184	225	Peak

Note: Other harmonics are lower than background noise.

Test Mode :	Mode 2	Temperature :	23~25°C				
Test Channel :	19	Relative Humidity :	48~52%				
Test Engineer :	Kear Huang	Polarization :	Vertical				
	1. 2440 MHz is fundament	2440 MHz is fundamental signal which can be ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2440	89.78	-	-	81.58	32.24	5.65	29.69	152	342	Peak
2440	89.01	-	-	80.81	32.24	5.65	29.69	152	342	Average
4880	43.57	-30.43	74	30.27	33.93	8.41	29.04	110	245	Peak
7320	32.41	-41.59	74	45.67	33.9	10	57.16	184	225	Peak

Note: Other harmonics are lower than background noise.

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Test Mode :	Mode 3	Temperature :	23~25°C				
Test Channel :	39	Relative Humidity :	48~52%				
Test Engineer :	Kear Huang	Polarization :	Horizontal				
	2480 MHz is fundamental signal which can be ignored.						
Remark: 2. Average measurement was not performed if peak level went lower							
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
30.97	20.83	-19.17	40	31.59	18.4	0.77	29.93	100	209	Peak
169.68	17.78	-25.72	43.5	37.65	8.5	1.57	29.94	-	-	Peak
187.14	17.61	-25.89	43.5	37.48	8.43	1.64	29.94	-	-	Peak
203.63	17.74	-25.76	43.5	36.75	9.21	1.71	29.93	-	-	Peak
477.17	20.93	-25.07	46	31.07	17.31	2.47	29.92	-	-	Peak
867.11	25	-21	46	30.84	20.8	3.29	29.93	-	-	Peak
2480	90.86	-	-	82.37	32.41	5.71	29.63	126	308	Peak
2480	89.95	-	-	81.46	32.41	5.71	29.63	126	308	Average
4960	46.35	-27.65	74	32.74	34.12	8.49	29	150	135	Peak
7440	31.82	-42.18	74	44.85	33.97	10.04	57.04	175	260	Peak

Note: Other harmonics are lower than background noise.

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Test Mode :	Mode 3	Temperature :	23~25°C					
Test Channel :	39	Relative Humidity :	48~52%					
Test Engineer :	Kear Huang	Polarization :	Vertical					
	2480 MHz is fundamental signal which can be ignored.							
Remark :	2. Average measurement was not performed if peak level went lower than the							

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
31.94	22.54	-17.46	40	33.79	17.9	0.78	29.93	100	203	Peak
118.27	15.13	-28.37	43.5	31.81	11.92	1.34	29.94	-	-	Peak
407.33	19.67	-26.33	46	31.01	16.26	2.32	29.92	-	-	Peak
644.01	22.91	-23.09	46	31.4	18.6	2.84	29.93	-	-	Peak
750.71	24.66	-21.34	46	31	20.53	3.06	29.93	-	-	Peak
869.05	24.75	-21.25	46	30.59	20.8	3.29	29.93	-	-	Peak
2480	88.8	-	-	80.31	32.41	5.71	29.63	144	342	Peak
2480	88.15	-	-	79.66	32.41	5.71	29.63	144	342	Average
4960	46.51	-27.49	74	32.9	34.12	8.49	29	150	135	Peak
7440	32.88	-41.12	74	45.91	33.97	10.04	57.04	175	260	Peak

Note: Other harmonics are lower than background noise.

average limit.

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3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MUz)	Conducted limit (dBμV)					
Frequency of emission (MHz)	Quasi-peak	Average				
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.

3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.6.3 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

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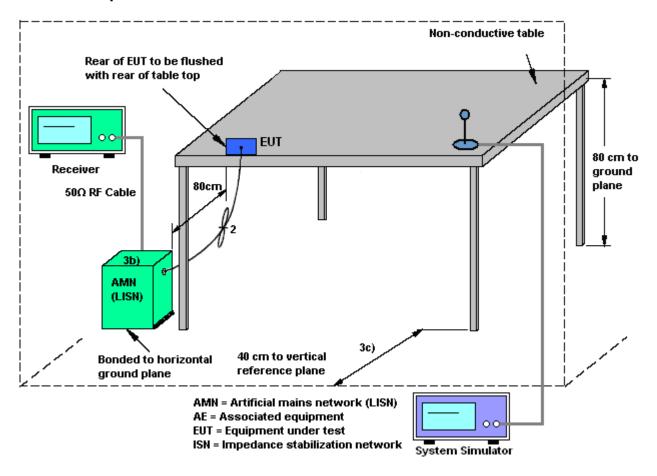
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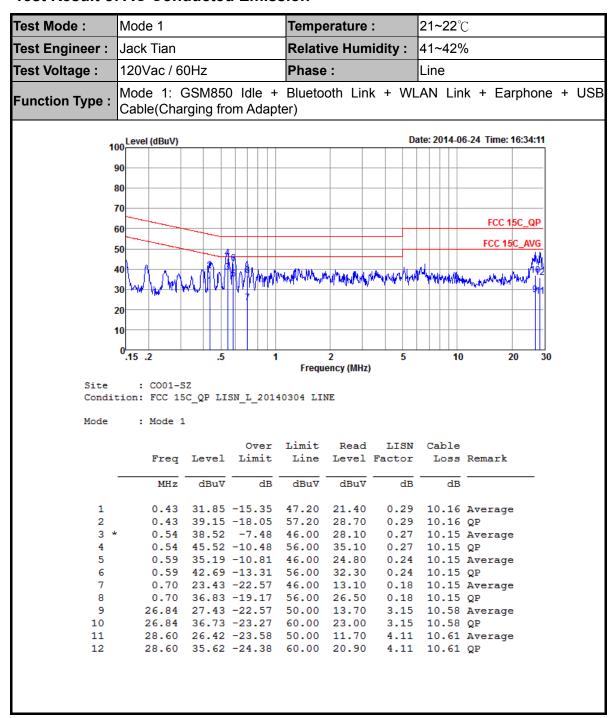
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3.6.4 Test Setup



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3.6.5 Test Result of AC Conducted Emission

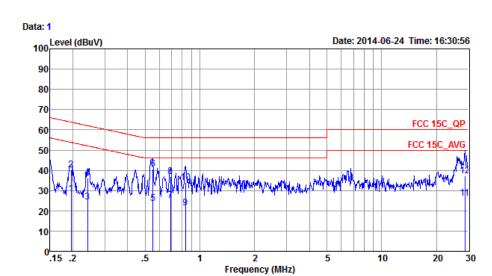


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Test Mode :	Mode 1	Temperature :	21~22℃
Test Engineer :	Jack Tian	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	Mode 1: GSM850 Idle + Cable(Charging from Adapte	Bluetooth Link + WL er)	AN Link + Earphone + USB



Site : CO01-SZ

Condition: FCC 15C_QP LISN_N_20140304 NEUTRAL

Mode : Mode 1

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.20	28.32	-25.48	53.80	17.70	0.32	10.30	Average
2	0.20	40.22	-23.58	63.80	29.60	0.32	10.30	QP
3	0.24	24.19	-27.85	52.04	13.60	0.34	10.25	Average
4	0.24	36.29	-25.75	62.04	25.70	0.34	10.25	QP
5	0.55	23.61	-22.39	46.00	13.10	0.36	10.15	Average
6 *	0.55	40.41	-15.59	56.00	29.90	0.36	10.15	QP
7	0.69	25.11	-20.89	46.00	14.70	0.26	10.15	Average
8	0.69	37.01	-18.99	56.00	26.60	0.26	10.15	QP
9	0.83	21.24	-24.76	46.00	10.80	0.29	10.15	Average
10	0.83	34.04	-21.96	56.00	23.60	0.29	10.15	QP
11	28.75	26.13	-23.87	50.00	11.20	4.32	10.61	Average
12	28.75	37.43	-22.57	60.00	22.50	4.32	10.61	QP

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3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 FCC rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum	DCC	FORCE	404400	0111- 00011	M 00 0041	Jul. 02, 2014~	M 00 0045	Conducted
Analyzer	R&S	FSP30	101400	9kHz~30GHz	Mar. 03, 2014	Jul. 08, 2014	Mar. 02, 2015	(TH01-SZ)
	1	DDDOOONA	TH01SZ00	0.0011 0.011		Jul. 02, 2014~	10 0045	Conducted
Power Sensor	Dare	RPR3006W	018	0.3GHz~6GHz	Mar. 14, 2014	Jul. 08, 2014	Mar. 13, 2015	(TH01-SZ)
D 0	1	DDDOOONA	TH01SZ00	0.0011 0.011		Jul. 02, 2014~	10 0045	Conducted
Power Sensor	Dare	RPR3006W	019	0.3GHz~6GHz	Mar. 14, 2014	Jul. 08, 2014	Mar. 13, 2015	(TH01-SZ)
ESCIO TEST	500	500 1	400704	011- 001-	F-1- 04 0044	Jul. 28, 2014~	F-1- 00 0045	Radiation
Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Jul. 31, 2014	Feb. 20, 2015	(03CH01-SZ)
Spectrum	Agilent	NOOGOA	MY522601	2011- 20 5011-		Jul. 28, 2014~	05 0045	Radiation
Analyzer	Technologies	N9038A	85	20Hz~26.5GHz	May 26, 2014	Jul. 31, 2014	May 25, 2015	(03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 09, 2014	Jul. 28, 2014~	May 08, 2015	Radiation
						Jul. 31, 2014		(03CH01-SZ) Radiation
Bilog Antenna	TESEQ	CBL 6112D	23188	30MHz~2GHz	Oct. 26, 2013	Jul. 28, 2014~ Jul. 31, 2014	Oct. 25, 2014	(03CH01-SZ)
Double Ridge	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Jul. 28, 2014~	Oct. 25, 2014	Radiation
Horn Antenna Double Ridged						Jul. 31, 2014 Jul. 28, 2014~		(03CH01-SZ) Radiation
Horn Antenna	COM-POWER	AH-840	101073	18GHz~40GHz	Jan. 27, 2014	Jul. 31, 2014	Jan. 26,2015	(03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	Jul. 28, 2014~ Jul. 31, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	Jul. 28, 2014~	May 07, 2015	Radiation
7 timpliner					Way 00, 2014	Jul. 31, 2014		(03CH01-SZ)
AC Source(AVR)	Chroma	61601	616010001 985	100Vac~250Vac	Mar. 25, 2014	Jul. 28, 2014~ Jul. 31, 2014	Mar. 24, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Jul. 28, 2014~ Jul. 31, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Jul. 28, 2014~	NCR	Radiation
ESCIO TEST	EW Electronics		14// (NOR	Jul. 31, 2014	HOIK	(03CH01-SZ) Conduction
Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Jun. 24, 2014	Feb. 20, 2015	(CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 04, 2014	Jun. 24, 2014	Mar. 03, 2015	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 04, 2014	Jun. 24, 2014	Mar. 03, 2015	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Dec. 17, 2013	Jun. 24, 2014	Dec. 16, 2014	Conduction (CO01-SZ)

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5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.2
of 95% (U = 2Uc(y))	2.5

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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	3.9
of 95% (U = 2Uc(y))	0.0

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