FCC RF Test Report

APPLICANT: TCL Communication Ltd.

EQUIPMENT: Tablet PC

BRAND NAME : ALCATEL ONETOUCH

MODEL NAME : 9007T

MARKETING NAME : ONETOUCH PIXI 3 (7)

FCC ID : 2ACCJB010

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DSS) Spread Spectrum Transmitter

The product was received on Apr. 24, 2015 and testing was completed on May 12, 2015. 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

(InnexTsur)

SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

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Report Issued Date : Aug. 04, 2015

Testing Laboratory 2353

Report No.: FR542408A

Report Version : Rev. 01

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR542408A	Rev. 01	Initial issue of report	Aug. 04, 2015

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(1)	Number of Channels	≥ 15Chs	Pass	-
3.2	15.247(a)(1)	Hopping Channel Separation	≥ 2/3 of 20dB BW	Pass	-
3.3	15.247(a)(1)	Dwell Time of Each Channel	≤ 0.4sec in 31.6sec period	Pass	-
3.4	15.247(a)(1)	20dB Bandwidth	NA	Pass	-
3.4	-	99% Bandwidth	-	Pass	-
3.5	15.247(b)(1)	Peak Output Power	≤ 125 mW	Pass	-
3.6	15.247(d)	Conducted Band Edges	≤ 20dBc	Pass	-
3.7	15.247(d)	Conducted Spurious Emission	≤ 20dBc	Pass	-
3.8	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 6.62 dB at 83.350 MHz
3.9	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 6.15 dB at 0.520 MHz
3.10	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

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General Description

1.1. Applicant

TCL Communication Ltd.

5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. 201203

1.2. Manufacturer

TCL Communication Ltd.

5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. 201203

1.3. Product Feature of Equipment Under Test

Product Feature				
Equipment	Tablet PC			
Brand Name	ALCATEL ONETOUCH			
Model Name	9007T			
Marketing Name	ONETOUCH PIXI 3 (7)			
FCC ID	2ACCJB010			
EUT supports Radios application	LTE/WLAN2.4GHz 802.11b/g/n HT20			
EUT Supports Radios application	Bluetooth v3.0+EDR/Bluetooth v4.1 LE			
HW Version	V05			
SW Version	A2J			
EUT Stage	Production Unit			

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. Accessories and Support Equipment

Specification of Accessory					
	Brand Name	ALCATELONETOUCH	Model Name	UC13US	
AC Adapter	Power Rating	I/P: 100-240Vac, 0.5A, O/P: 5Vdc, 2A			
	P/N	CBA0059AG1C1			
	Brand Name	ALCATEL ONETOUCH	Model Name	TLp040D2	
Battery	Power Rating	3.8V 4000mAh			
	P/N	C400000C2Y2Z77K			
USB Cable	Brand Name	NA	Model Name	NA	
Cable	Signal Line Type	1.0meter, shielded cable, without ferrite core			

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1.5. Product Specification subjective to this standard

Product Specification subjective to this standard				
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz			
Number of Channels	79			
Carrier Frequency of Each Channel	2402+n*1 MHz; n=0~78			
Maximum Output Power to Antenna	Bluetooth BR(1Mbps) : 6.85 dBm (0.00484 W) Bluetooth EDR (2Mbps) : 7.58 dBm (0.00573 W) Bluetooth EDR (3Mbps) : 8.05 dBm (0.00638 W)			
Antenna Type	PIFA Antenna with gain 1.90 dBi			
Type of Modulation	Bluetooth BR (1Mbps) : GFSK Bluetooth EDR (2Mbps) : π /4-DQPSK Bluetooth EDR (3Mbps) : 8-DPSK			

1.6. Modification of EUT

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

1.7. Testing Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.			
	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili			
Took Cita Lagation	Town, Nanshan District, Shenzhen, Guangdong, P. R. China			
Test Site Location	TEL: +86-755-8637-9589			
	FAX: +86-755-8637-9595			
Took Cita No	Sportor	n Site No.		
Test Site No.	TH01-SZ	CO01-SZ		

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

Note: The test site complies with ANSI C63.4 2009 requirement.

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1.8. 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 Public Notice DA 00-705
- ANSI C63.10-2013

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. FCC permits the use of the 1.5 meter table as an alternative in C63.10-2013 through inquiry tracking number 961829.
- 3. 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

Preliminary tests were performed in different data rates and recorded the RF output power in the following table:

		Bluetooth RF Output Power			
Channel		Data Rate / Modulation			
Chamilei	Frequency	GFSK	π/4-DQPSK	8-DPSK	
		1Mbps	2Mbps	3Mbps	
Ch00	2402MHz	6.00 dBm	6.42 dBm	6.82 dBm	
Ch39	2441MHz	6.85 dBm	7.58 dBm	<mark>8.05</mark> dBm	
Ch78	2480MHz	5.93 dBm	7.52 dBm	7.01 dBm	

Remark:

- 1. All the test data for each data rate were verified, but only the worst case was reported.
- 2. The data rate was set in 3Mbps for all the test items due to the highest RF output power.
- 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, and different data rates were conducted to determine the final configuration (X plane as worst plane) from all possible combinations, and the worst mode of radiated spurious emissions is Bluetooth 3Mbps mode, and recorded in this report.
- 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					
	Data Rate / Modulation					
Test Item	Bluetooth BR 1Mbps	Bluetooth EDR 2Mbps	Bluetooth EDR 3Mbps			
	GFSK	π/4-DQPSK	8-DPSK			
Conducted	Mode 1: CH00_2402 MHz	Mode 4: CH00_2402 MHz	Mode 7: CH00_2402 MHz			
	Mode 2: CH39_2441 MHz	Mode 5: CH39_2441 MHz	Mode 8: CH39_2441 MHz			
Test Cases	Mode 3: CH78_2480 MHz	Mode 6: CH78_2480 MHz	Mode 9: CH78_2480 MHz			
	Bluetooth EDR 3Mbps 8-DPSK					
	В	luetooth EDR 3Mbps 8-DPS	K			
Radiated	В	luetooth EDR 3Mbps 8-DPS Mode 1: CH00_2402 MHz	K			
Radiated Test Cases	В		K			
	В	Mode 1: CH00_2402 MHz	K			
		Mode 1: CH00_2402 MHz Mode 2: CH39_2441 MHz Mode 3: CH78_2480 MHz				
Test Cases		Mode 1: CH00_2402 MHz Mode 2: CH39_2441 MHz Mode 3: CH78_2480 MHz + Bluetooth Link + WLAN Line				

Remark:

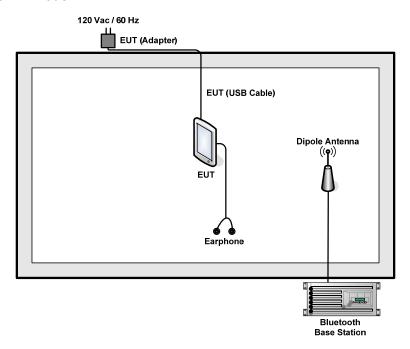
- 1. For radiated test cases, the worst mode data rate 3Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.
- 2. For Radiated Test Cases, The tests were performance with Adapter, Earphone and USB Cable.

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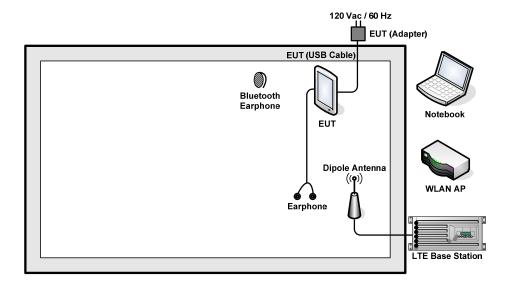
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2.3 Connection Diagram of Test System

<Bluetooth 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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	BT Base Station	R&S	CBT	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P:
4.						Unshielded, 1.2 m
٦.						DC O/P:
						Shielded, 1.8 m
5.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
6.	Earphone	Lenovo	LBH301	FCC DoC	Shielded, 1.0 m	N/A
7.	iPod Earphone	Apple	MC690ZP/A	FCC DoC	Unshielded, 1.6 m	N/A

2.5 EUT Operation Test Setup

For Bluetooth function, the engineering test program was provided and enabled to make EUT connect with Bluetooth base station to 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 5 dB and 10dB attenuator.

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

= 5 + 10 = 15 (dB)

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3 Test Result

3.1 Number of Channel Measurement

3.1.1 Limits of Number of Hopping Frequency

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

- 1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 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. Enable the EUT hopping function.
- 5. Use the following spectrum analyzer settings: Span = the frequency band of operation; RBW ≥ 1% of the span; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
- 6. The number of hopping frequency used is defined as the number of total channel.
- 7. Record the measurement data derived from spectrum analyzer.

3.1.4 Test Setup



3.1.5 Test Result of Number of Hopping Frequency

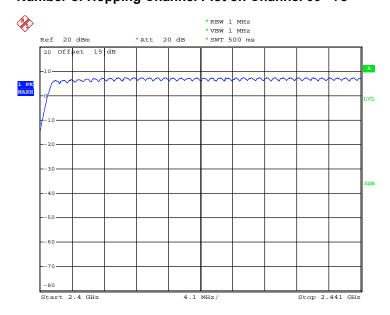
Test Mode :	3Mbps	Temperature :	24~26 ℃
Test Engineer :	Mygai Mo	Relative Humidity :	50~53%

Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
79	20	> 15	Pass

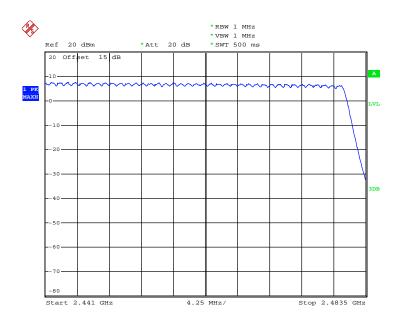
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Number of Hopping Channel Plot on Channel 00 - 78



Date: 5.MAY.2015 20:31:33



Date: 5.MAY.2015 20:41:42

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3.2 Hopping Channel Separation Measurement

3.2.1 Limit of Hopping Channel Separation

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

- 1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 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. Enable the EUT hopping function.
- Use the following spectrum analyzer settings:
 Span = wide enough to capture the peaks of two adjacent channels; RBW ≥ 1% of the span;
 VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
- 6. Measure and record the results in the test report.

3.2.4 Test Setup



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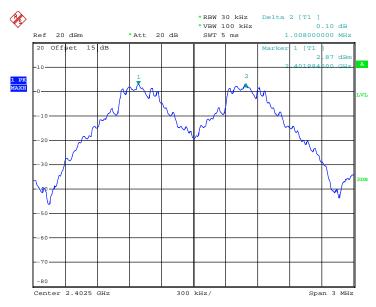
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3.2.5 Test Result of Hopping Channel Separation

Test Mode :	1Mbps	Temperature :	24~26℃
Test Engineer :	Mygai Mo	Relative Humidity :	50~53%

Channel	Frequency (MHz)	Frequency Separation (MHz)	(2/3 of 20dB BW) Limits (MHz)	Pass/Fail
00	2402	1.008	0.6080	Pass
39	2441	1.002	0.6053	Pass
78	2480	1.002	0.6053	Pass

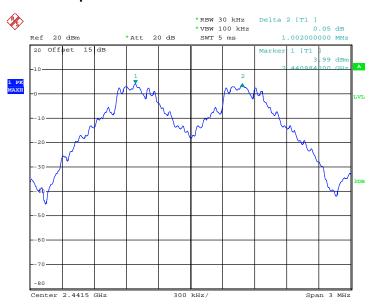
Channel Separation Plot on Channel 00 - 01



Date: 5.MAY.2015 21:11:51

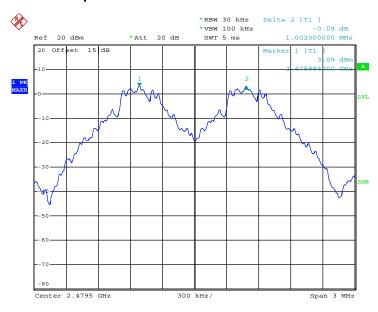
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Channel Separation Plot on Channel 39 - 40



Date: 5.MAY.2015 20:00:45

Channel Separation Plot on Channel 77 - 78



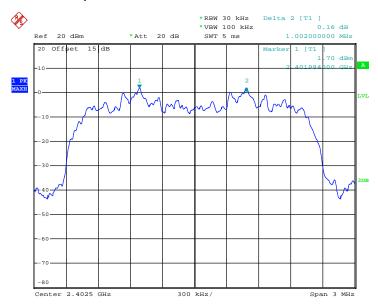
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Test Mode :	2Mbps	Temperature :	24~26℃
Test Engineer :	Mygai Mo	Relative Humidity :	50~53%

Channel	Frequency (MHz)	Frequency Separation (MHz)	(2/3 of 20dB BW) Limits (MHz)	Pass/Fail
00	2402	1.002	0.8440	Pass
39	2441	1.002	0.8480	Pass
78	2480	1.002	0.8480	Pass

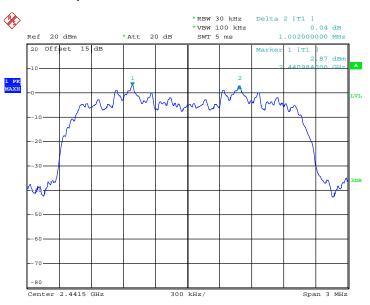
Channel Separation Plot on Channel 00 - 01



Date: 5.MAY.2015 21:08:31

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Channel Separation Plot on Channel 39 - 40



Date: 5.MAY.2015 20:04:15

Channel Separation Plot on Channel 77 - 78



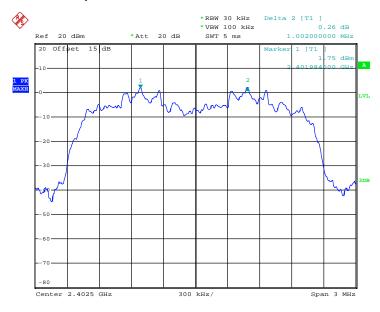
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Test Mode :	3Mbps	Temperature :	24~26℃
Test Engineer :	Mygai Mo	Relative Humidity :	50~53%

Channel	Frequency (MHz)	Frequency Separation (MHz)	(2/3 of 20dB BW) Limits (MHz)	Pass/Fail
00	2402	1.002	0.8240	Pass
39	2441	1.002	0.8280	Pass
78	2480	1.002	0.8240	Pass

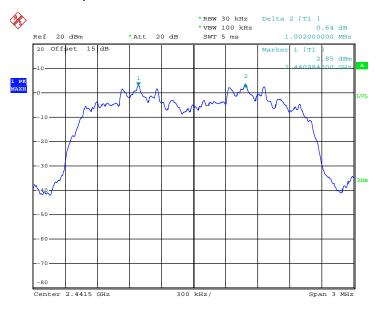
Channel Separation Plot on Channel 00 - 01



Date: 5.MAY.2015 20:06:02

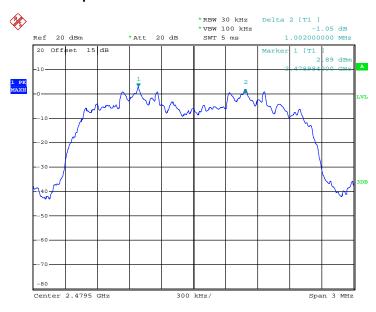
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Channel Separation Plot on Channel 39 - 40



Date: 5.MAY.2015 20:06:59

Channel Separation Plot on Channel 77 - 78



Date: 5.MAY.2015 20:08:06

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3.3 Dwell Time Measurement

3.3.1 Limit of Dwell Time

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.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

- 1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 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. Enable the EUT hopping function.
- 5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW ≥ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.
- 6. Measure and record the results in the test report.

3.3.4 Test Setup



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3.3.5 Test Result of Dwell Time

Test Mode :	3DH5	Temperature :	24~26 ℃
Test Engineer :	Mygai Mo	Relative Humidity :	50~53%

Mode	Channel	Hops Over Occupancy Time(hops)	IIMA	Dwell Time (sec)	Limits (sec)	Pass/Fail
Normal	79	106.67	2.886	0.31	0.4	Pass
AFH	20	53.33	2.886	0.15	0.4	Pass

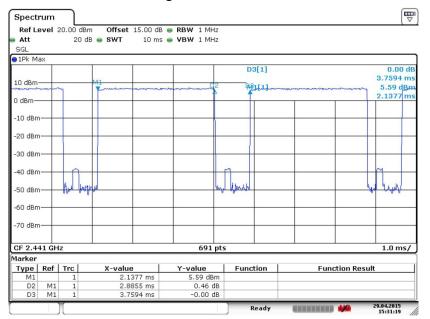
Remark:

- In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.
 With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s),
 Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops.
- 2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels.
 With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s),
 Hops Over Occupancy Time comes to (800 / 6 / 20) x (0.4 x 20) = 53.33 hops.
- 3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

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Package Transfer Time Plot



Date: 29.APR.2015 15:31:19

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3.4 20dB Bandwidth Measurement

3.4.1 Limit of 20dB Bandwidth

Reporting only

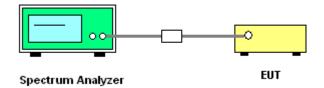
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

- 1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 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. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.
 Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel;
 RBW ≥ 1% of the 20 dB bandwidth; VBW ≥ RBW; Sweep = auto; Detector function = peak;
 Trace = max hold.
- 5. Measure and record the results in the test report.

3.4.4 Test Setup



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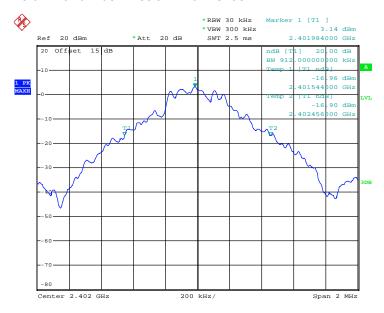
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3.4.5 Test Result of 20dB Bandwidth

Test Mode :	1Mbps	Temperature :	24~26 ℃
Test Engineer :	Mygai Mo	Relative Humidity :	50~53%

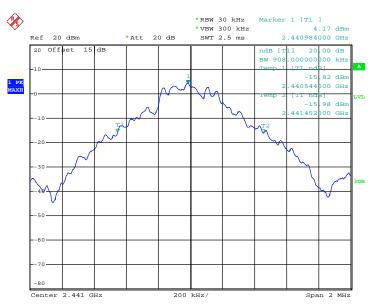
Channel	Frequency (MHz)	20dB Bandwidth (MHz)
00	2402	0.912
39	2441	0.908
78	2480	0.908

20 dB Bandwidth Plot on Channel 00



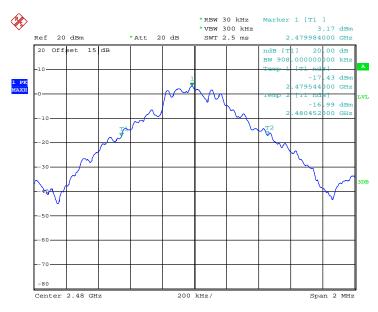
Date: 5.MAY.2015 20:09:04

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Date: 5.MAY.2015 20:10:32

20 dB Bandwidth Plot on Channel 78

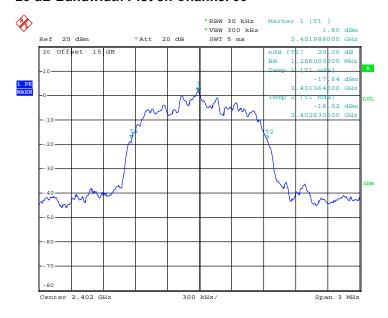


Date: 5.MAY.2015 20:11:52

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB010 Page Number : 27 of 63
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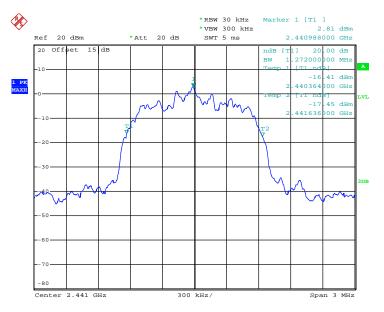
Test Mode :	2Mbps	Temperature :	24~26℃
Test Engineer :	Mygai Mo	Relative Humidity :	50~53%

Channel	Frequency (MHz)	20dB Bandwidth (MHz)
00	2402	1.266
39	2441	1.272
78	2480	1.272



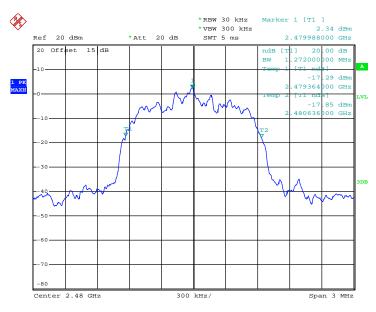
Date: 5.MAY.2015 20:12:40

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB010 Page Number : 28 of 63
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Date: 5.MAY.2015 20:13:28

20 dB Bandwidth Plot on Channel 78

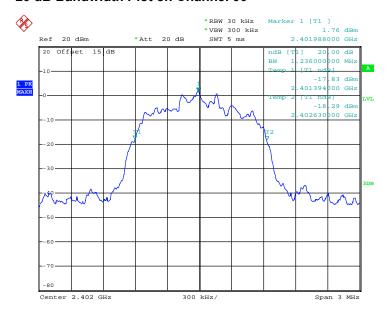


Date: 5.MAY.2015 20:14:16

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Test Mode :	3Mbps	Temperature :	24~26 ℃
Test Engineer :	Mygai Mo	Relative Humidity :	50~53%

Channel	Frequency (MHz)	20dB Bandwidth (MHz)
00	2402	1.236
39	2441	1.242
78	2480	1.236



Date: 5.MAY.2015 20:14:41

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Date: 5.MAY.2015 20:15:19

20 dB Bandwidth Plot on Channel 78



Date: 5.MAY.2015 20:15:44

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3.5 Peak Output Power Measurement

3.5.1 Limit of Peak Output Power

Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (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.

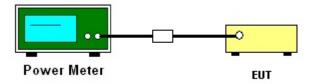
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

- 1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 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 with cable loss and record the results in the test report.
- 5. Measure and record the results in the test report.

3.5.4 Test Setup



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3.5.5 Test Result of Peak Output Power

Test Mode :	1Mbps	Temperature :	24~26℃
Test Engineer :	Mygai Mo	Relative Humidity :	50~53%

Evenuency		RF Power (dBm)			
Channel	nannel Frequency GF		Max. Limits	Pass/Fail	
	(WITZ)	1 Mbps	(dBm)	Pass/Faii	
00	2402	6.00	20.97	Pass	
39	2441	6.85	20.97	Pass	
78	2480	5.93	20.97	Pass	

Test Mode :	2Mbps	Temperature :	24~26℃
Test Engineer :	Mygai Mo	Relative Humidity :	50~53%

		RF Power (dBm)		
Channel	Frequency	π/4-DQPSK	Max. Limits	Pass/Fail
	(MHz)	2 Mbps	(dBm)	Pass/Faii
00	2402	6.42	20.97	Pass
39	2441	7.58	20.97	Pass
78	2480	7.52	20.97	Pass

Test Mode :	3Mbps	Temperature :	24~26 ℃
Test Engineer :	Mygai Mo	Relative Humidity :	50~53%

Fraguency		RF Power (dBm)		
Channel	el Frequency 8-DPS (MHz)		Max. Limits	Pass/Fail
	(IVITIZ)	3 Mbps	(dBm)	Pass/Faii
00	2402	6.82	20.97	Pass
39	2441	8.05	20.97	Pass
78	2480	7.01	20.97	Pass

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3.6 Conducted Band Edges Measurement

3.6.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

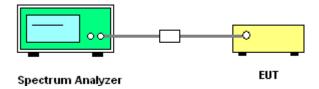
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

- The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of FCC Public Notice DA 00-705 Measurement Guidelines.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Set RBW = 100kHz (≥ 1% span=10MHz), VBW = 300kHz (≥ RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.
- 4. Enable hopping function of the EUT and then repeat step 2. and 3.
- 5. Measure and record the results in the test report.

3.6.4 Test Setup

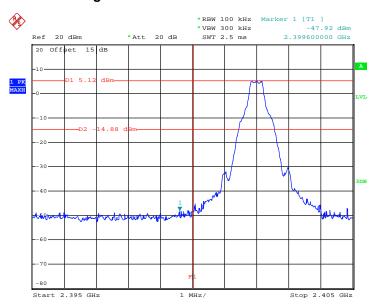


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3.6.5 Test Result of Conducted Band Edges

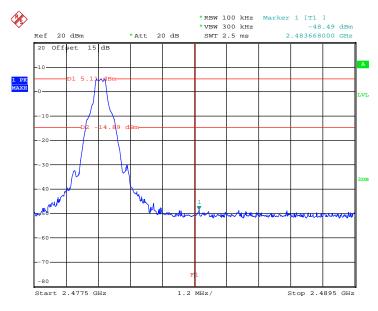
Test Mode :	1Mbps	Temperature :	24~26 ℃
Test Channel :	00 and 78	Relative Humidity :	50~53%
		Test Engineer :	Mygai Mo

Low Band Edge Plot on Channel 00



Date: 5.MAY.2015 21:18:30

High Band Edge Plot on Channel 78

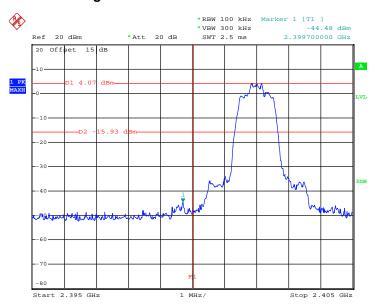


Date: 5.MAY.2015 21:21:22

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB010 Page Number : 35 of 63
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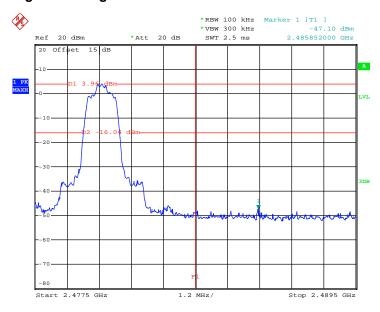
Test Mode :	2Mbps	Temperature :	24~26 ℃
Test Channel :	00 and 78	Relative Humidity :	50~53%
		Test Engineer :	Mygai Mo

Low Band Edge Plot on Channel 00



Date: 5.MAY.2015 20:43:31

High Band Edge Plot on Channel 78

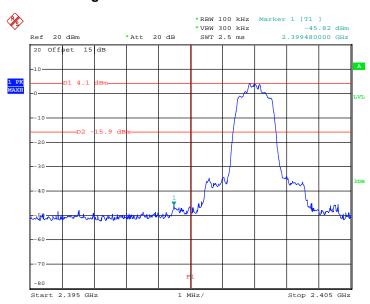


Date: 5.MAY.2015 20:47:22

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB010 Page Number : 36 of 63
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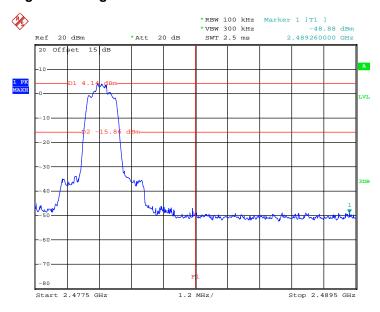
Test Mode :	3Mbps	Temperature :	24~26℃
Test Channel :	00 and 78	Relative Humidity :	50~53%
		Test Engineer :	Mygai Mo

Low Band Edge Plot on Channel 00



Date: 5.MAY.2015 20:25:00

High Band Edge Plot on Channel 78



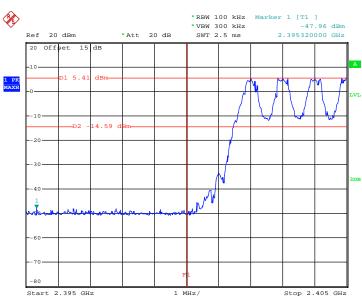
Date: 5.MAY.2015 20:21:50

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3.6.6 Test Result of Conducted Hopping Mode Band Edges

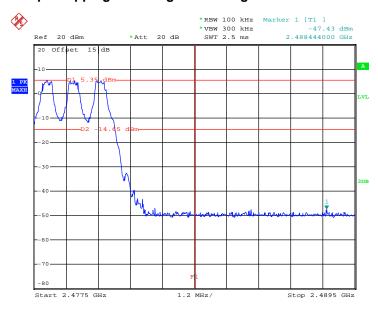
Test Mode:	1Mbps	Temperature :	24~26 ℃
Test Engineer :	Mygai Mo	Relative Humidity :	50~53%

1Mbps Hopping Mode Low Band Edge Plot



Date: 5.MAY.2015 21:20:58

1Mbps Hopping Mode High Band Edge Plot



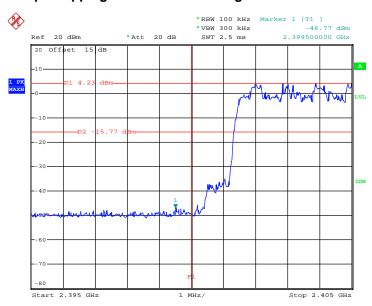
Date: 5.MAY.2015 21:23:41

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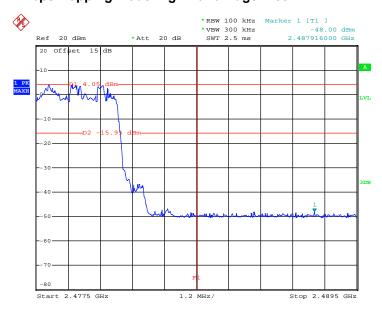
Test Mode :	2Mbps	Temperature :	24~26 ℃
Test Engineer :	Mygai Mo	Relative Humidity :	50~53%

2Mbps Hopping Mode Low Band Edge Plot



Date: 5.MAY.2015 20:46:58

2Mbps Hopping Mode High Band Edge Plot

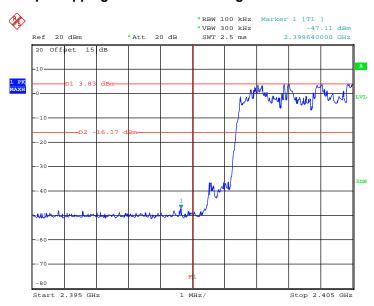


Date: 5.MAY.2015 20:50:26

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB010 Page Number : 39 of 63
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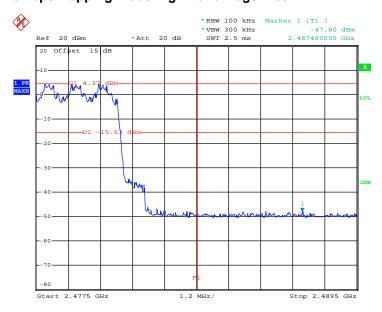
Test Mode :	3Mbps	Temperature :	24~26 ℃
Test Engineer :	Mygai Mo	Relative Humidity :	50~53%

3Mbps Hopping Mode Low Band Edge Plot



Date: 5.MAY.2015 20:26:45

3Mbps Hopping Mode High Band Edge Plot



Date: 5.MAY.2015 20:24:37

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3.7 Conducted Spurious Emission Measurement

3.7.1 Limit of Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

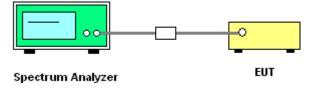
3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedure

- The testing follows the guidelines in Spurious RF Conducted Emissions of FCC Public Notice DA 00-705 Measurement Guidelines
- 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 = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
- 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.

3.7.4 Test Setup



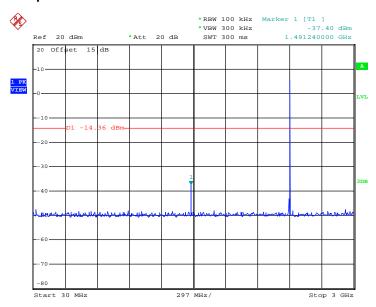
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3.7.5 Test Result of Conducted Spurious Emission

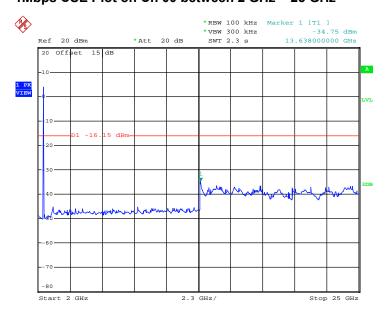
Test Mode :	1Mbps	Temperature :	24~26℃
Test Channel :	00	Relative Humidity :	50~53%
		Test Engineer :	Mygai Mo

1Mbps CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 5.MAY.2015 21:13:10

1Mbps CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



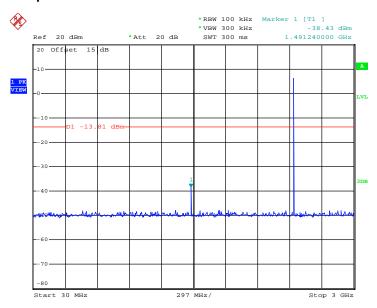
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SPORTON INTERNATIONAL (SHENZHEN) INC.

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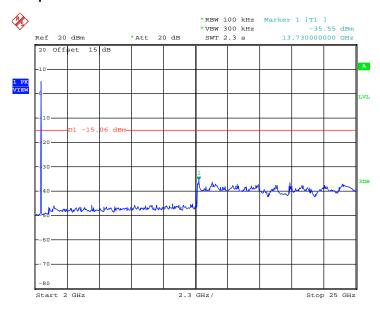
Test Mode :	1Mbps	Temperature :	24~26℃
Test Channel :	39	Relative Humidity :	50~53%
		Test Engineer :	Mygai Mo

1Mbps CSE Plot on Ch 39 between 30MHz ~ 3 GHz



Date: 5.MAY.2015 21:14:54

1Mbps CSE Plot on Ch 39 between 2 GHz ~ 25 GHz

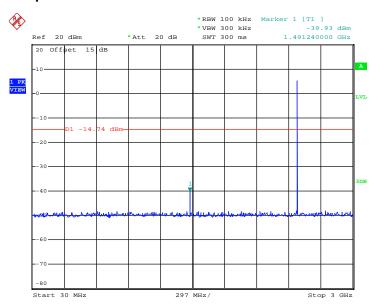


Date: 5.MAY.2015 21:15:46

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB010 Page Number : 43 of 63
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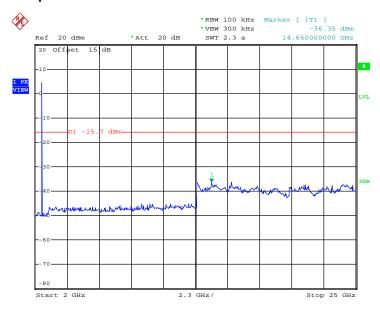
Test Mode :	1Mbps	Temperature :	24~26℃
Test Channel :	78	Relative Humidity :	50~53%
		Test Engineer :	Mygai Mo

1Mbps CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 5.MAY.2015 21:16:39

1Mbps CSE Plot on Ch 78 between 2 GHz ~ 25 GHz

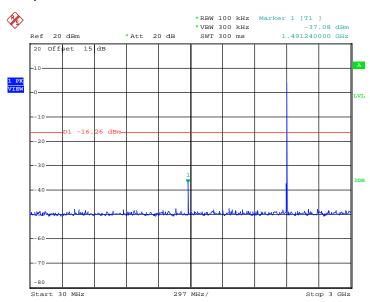


Date: 5.MAY.2015 21:17:30

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB010 Page Number : 44 of 63
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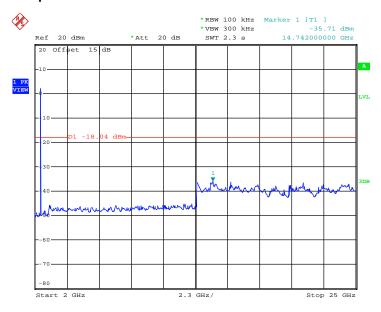
Test Mode :	2Mbps	Temperature :	24~26℃
Test Channel :	00	Relative Humidity :	50~53%
		Test Engineer :	Mygai Mo

2Mbps CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 5.MAY.2015 21:01:13

2Mbps CSE Plot on Ch 00 between 2 GHz ~ 25 GHz

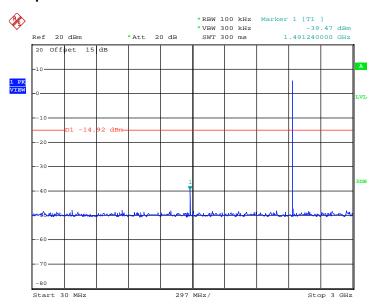


Date: 5.MAY.2015 21:02:05

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB010 Page Number : 45 of 63
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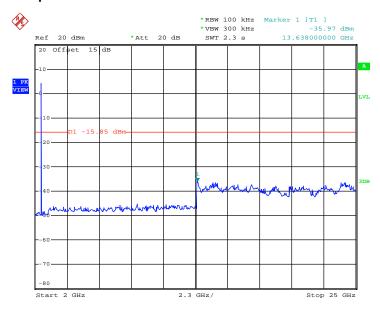
Test Mode :	2Mbps	Temperature :	24~26℃
Test Channel :	39	Relative Humidity :	50~53%
		Test Engineer :	Mygai Mo

2Mbps CSE Plot on Ch 39 between 30MHz ~ 3 GHz



Date: 5.MAY.2015 21:02:57

2Mbps CSE Plot on Ch 39 between 2 GHz ~ 25 GHz

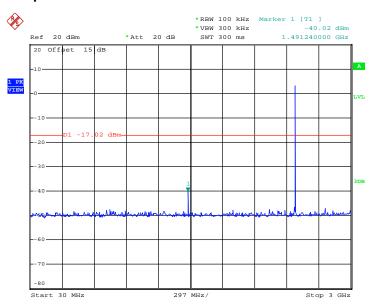


Date: 5.MAY.2015 21:03:49

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB010 Page Number : 46 of 63
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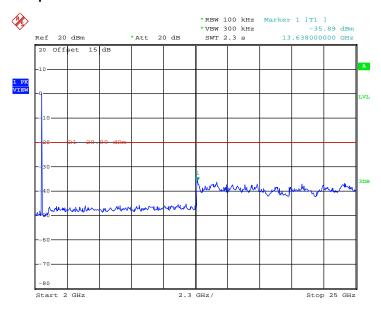
Test Mode :	2Mbps	Temperature :	24~26℃
Test Channel :	78	Relative Humidity :	50~53%
		Test Engineer :	Mygai Mo

2Mbps CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 5.MAY.2015 21:04:41

2Mbps CSE Plot on Ch 78 between 2 GHz ~ 25 GHz

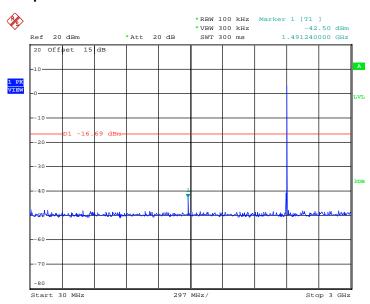


Date: 5.MAY.2015 21:05:33

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB010 Page Number : 47 of 63
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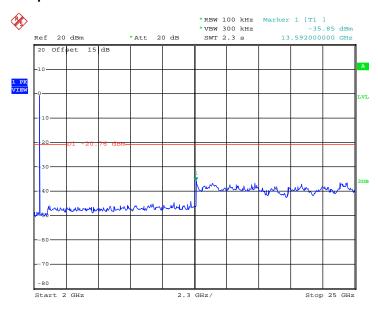
Test Mode :	3Mbps	Temperature :	24~26℃
Test Channel :	00	Relative Humidity :	50~53%
		Test Engineer :	Mygai Mo

3Mbps CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 5.MAY.2015 19:53:44

3Mbps CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



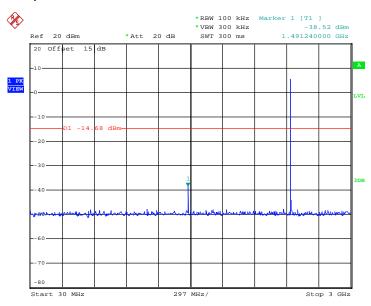
Date: 5.MAY.2015 19:54:36

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB010 Page Number : 48 of 63
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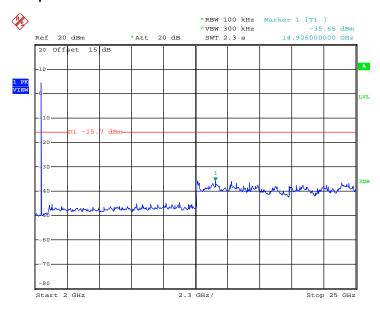
Test Mode :	3Mbps	Temperature :	24~26℃
Test Channel :	39	Relative Humidity :	50~53%
		Test Engineer :	Mygai Mo

3Mbps CSE Plot on Ch 39 between 30MHz ~ 3 GHz



Date: 5.MAY.2015 19:55:28

3Mbps CSE Plot on Ch 39 between 2 GHz ~ 25 GHz



Date: 5.MAY.2015 19:56:20

SPORTON INTERNATIONAL (SHENZHEN) INC.

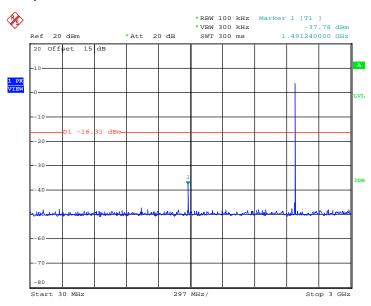
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2ACCJB010

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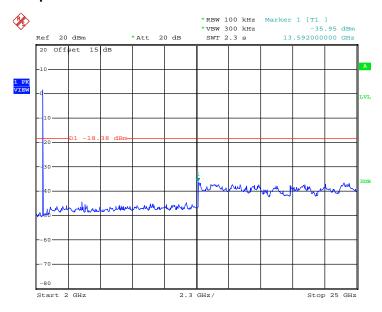
Test Mode :	3Mbps	Temperature :	24~26℃
Test Channel :	78	Relative Humidity :	50~53%
		Test Engineer :	Mygai Mo

3Mbps CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 5.MAY.2015 19:57:12

3Mbps CSE Plot on Ch 78 between 2 GHz ~ 25 GHz



Date: 5.MAY.2015 19:58:04

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3.8 Radiated Band Edges and Spurious Emission Measurement

3.8.1 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. 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

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.8.3 Test Procedures

- The testing follows the guidelines in Spurious Radiated Emissions of FCC Public Notice DA 00-705 Measurement Guidelines.
- 2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, 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 to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. 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, RBW=1MHz for f>1GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).

Duty cycle = On time/100 milliseconds

On time = $N_1*L_1+N_2*L_2+...+N_{n-1}*LN_{n-1}+N_n*L_n$

Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.

Average Emission Level = Peak Emission Level + 20*log(Duty cycle)

7. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.79dB) derived from 20log (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

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3.8.4 Test Setup

For radiated emissions below 30MHz

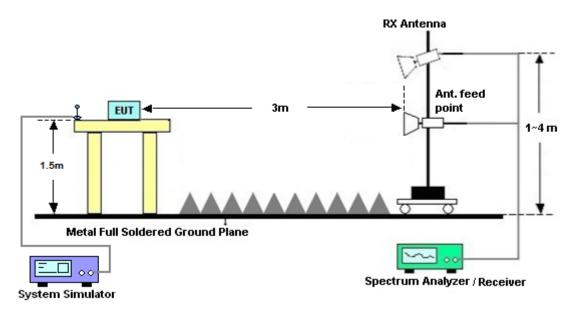


For radiated emissions from 30MHz to 1GHz



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For radiated emissions above 1GHz



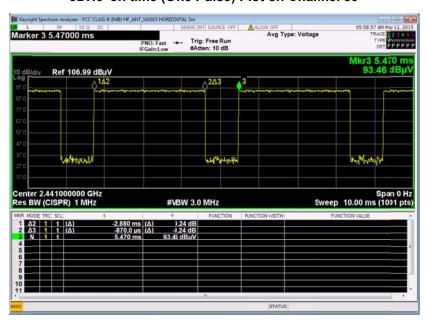
3.8.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

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.

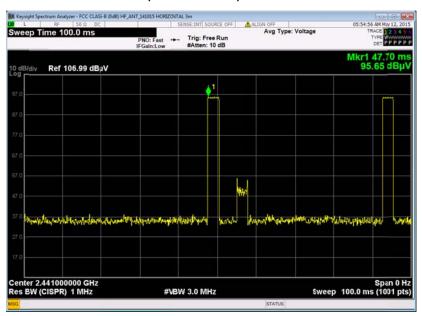
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Duty cycle correction factor for average measurement

3DH5 on time (One Pulse) Plot on Channel 39



3DH5 on time (Count Pulses) Plot on Channel 39



Note:

- 1. Worst case Duty cycle = on time/100 milliseconds = 2 * 2.88 / 100 = 5.76 %
- 2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -24.79 dB
- 3. 3DH5 has the highest duty cycle worst case and is reported.

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Duty Cycle Correction Factor Consideration for AFH mode:

Bluetooth normal hopping rate is 1600Hz and reduced to 800Hz in AFH mode; due to the reduced number of hopping frequencies, with the same packet configuration the dwell time in each channel frequency within 100msec period is longer in AFH mode than normal mode.

In AFH mode, the minimum hopping frequencies are 20, to get the longest dwell time DH5 packet is observed; the period to have DH5 packet completing one hopping sequence is

 $2.88 \text{ ms } \times 20 \text{ channels} = 57.6 \text{ ms}$

There cannot be 2 complete hopping sequences within 100ms period, considering the random hopping behavior, maximum 2 hops can be possibly observed within the period. [100ms / 57.6ms] = 2 hops

Thus, the maximum possible ON time:

2.88 ms x 2 = 5.76 ms

Worst case Duty Cycle Correction factor, which is derived from the maximum possible ON time,

 $20 \times log(5.76 \text{ ms}/100 \text{ms}) = -24.79 \text{ dB}$

3.8.7 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic) 3.8.8

Please refer to Appendix A.

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3.9 AC Conducted Emission Measurement

3.9.1 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.

Fraguency 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.

3.9.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

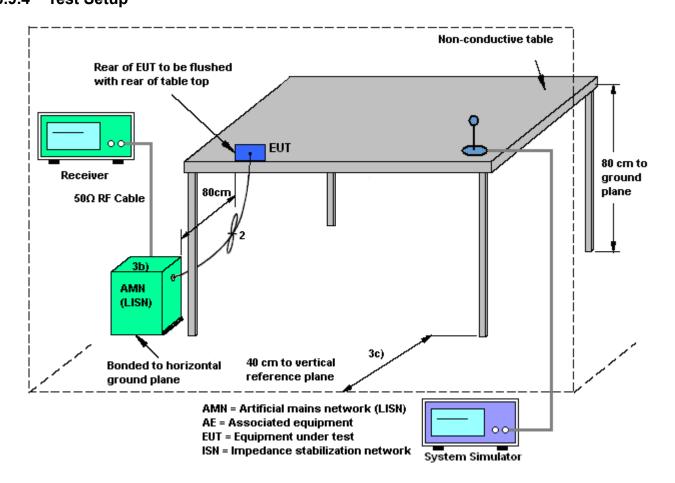
3.9.3 Test Procedures

- 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 (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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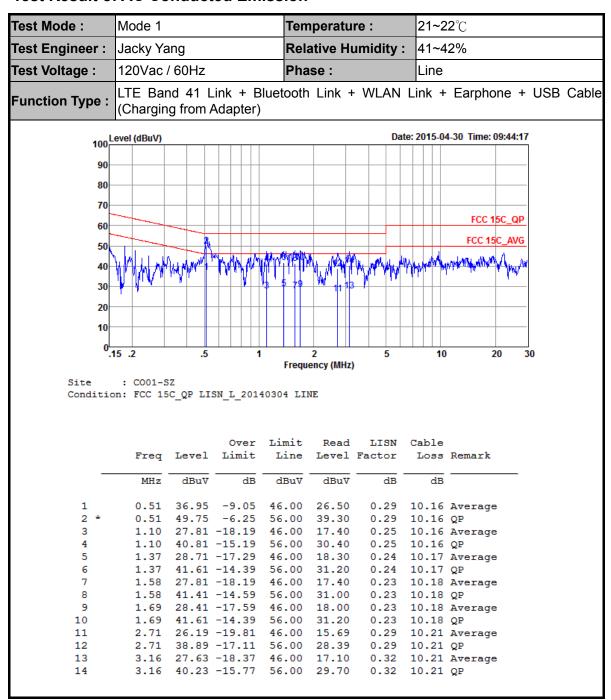


3.9.4 Test Setup



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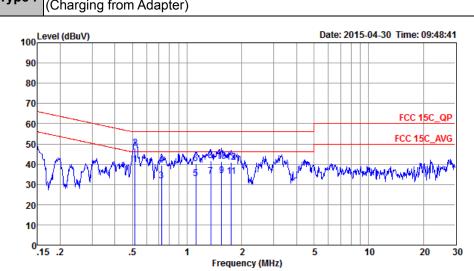
3.9.5 Test Result of AC Conducted Emission



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Test Mode :	Mode 1	Temperature :	21~22℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	LTE Band 41 Link + Bluet	ooth Link + WLAN L	ink + Earphone + USB Cable



Site : CO01-SZ Condition: FCC 15C_QP LISN_N_20140304 NEUTRAL

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBu∀	dBuV	dB	dB	
1 *	0.52	39.85	-6.15	46.00	29.30	0.39	10.16	Average
2	0.52	48.05	-7.95	56.00	37.50	0.39	10.16	QP
3	0.72	31.61	-14.39	46.00	21.20	0.26	10.15	Average
4	0.72	39.31	-16.69	56.00	28.90	0.26	10.15	QP
5	1.12	32.69	-13.31	46.00	22.19	0.34	10.16	Average
6	1.12	40.09	-15.91	56.00	29.59	0.34	10.16	QP
7	1.35	34.11	-11.89	46.00	23.59	0.35	10.17	Average
8	1.35	41.81	-14.19	56.00	31.29	0.35	10.17	QP
9	1.55	34.23	-11.77	46.00	23.70	0.36	10.17	Average
10	1.55	41.23	-14.77	56.00	30.70	0.36	10.17	QP
11	1.75	33.84	-12.16	46.00	23.30	0.36	10.18	Average
12	1.75	41.14	-14.86	56.00	30.60	0.36	10.18	QP

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3.10 Antenna Requirements

3.10.1 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.

3.10.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.10.3 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 Analyzer	R&S	FSV40	101078	9kHz~40GHz	May 05, 2015	Apr. 29, 2015~ May 05, 2015	May 04, 2016	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Jan. 28, 2015	Apr. 29, 2015~ May 05, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1207253	30MHz~40GHz	Jan. 28, 2015	Apr. 29, 2015~ May 05, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Jan. 28, 2015	Apr. 29, 2015~ May 05, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY522601 85	20Hz~26.5GHz	May 26, 2014	May 12, 2015	May 25, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Sep. 25, 2014	May 12, 2015	Sep. 24, 2015	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 06, 2015	May 12, 2015	May 05, 2016	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	May 12, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	May 12, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Sep. 04, 2014	May 12, 2015	Sep. 03, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	May 12, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 05, 2015	May 12, 2015	May 04, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY395013 02	500MHz~26.5G Hz	Jan. 28, 2015	May 12, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001 985	N/A	NCR	May 12, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 12, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 12, 2015	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan. 28, 2015	Apr. 30, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Apr. 30, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Apr. 30, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Sep. 29, 2014	Apr. 30, 2015	Sep. 28, 2015	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 24, 2014	Apr. 30, 2015	Oct. 23, 2015	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	2.3dB
Confidence of 95% (U = 2Uc(y))	2.3ub

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

-		
ı	Measuring Uncertainty for a Level of	3.9dB
ı	Confidence of 95% (U = $2Uc(y)$)	3.306

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Appendix A. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

ВТ	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2378.77	49.23	-24.77	74	37.48	32.58	8.51	29.34	250	311	Р	Н
		2378.77	24.44	-29.56	54	-	-	-	-	250	311	Α	Н
ВТ	*	2402	104.38	-	-	92.56	32.6	8.6	29.38	250	311	Р	Н
CH00	*	2402	79.59	-	-	-	-	-	-	250	311	Α	Н
2402MHz		2345.23	49.18	-24.82	74	37.52	32.54	8.43	29.31	250	5	Р	V
2-102111112		2345.23	24.39	-29.61	54	-	-	-	-	250	5	Α	V
	*	2402	96.4	-	-	84.58	32.6	8.6	29.38	250	5	Р	V
	*	2402	71.61	-	ı	-	ı	ı	-	250	5	Α	V
		2312.28	49.93	-24.07	74	38.22	32.51	8.43	29.23	250	305	Р	Н
		2312.28	25.14	-28.86	54	-	-	-	-	250	305	Α	Н
	*	2441	106.74	1	-	94.73	32.65	8.69	29.33	250	305	Р	Н
	*	2441	81.95	ı	1	-	1	1	-	250	305	Α	Н
		2488.03	49.57	-24.43	74	37.4	32.7	8.78	29.31	250	305	Р	Н
BT CH 39		2488.03	24.78	-29.22	54	-	-	-	-	250	305	Α	Н
2441MHz		2321.97	49.54	-24.46	74	37.85	32.53	8.43	29.27	250	5	Р	V
244 HVII 12		2321.97	24.75	-29.25	54	-	-	1	-	250	5	Α	V
	*	2441	99.07	-	-	87.06	32.65	8.69	29.33	250	5	Р	V
	*	2441	74.28	-	-	-	-	-	-	250	5	Α	V
		2483.85	49.59	-24.41	74	37.44	32.68	8.78	29.31	250	5	Р	V
		2483.85	24.8	-29.20	54	-	-	-	_	250	5	Α	V

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ВТ	*	2480	103.61	-	-	91.46	32.68	8.78	29.31	250	310	Р	Н
	*	2480	78.82	-	-	-	-	-	-	250	310	Α	Н
		2483.69	49.69	-24.31	74	37.54	32.68	8.78	29.31	250	310	Р	Н
		2483.69	24.9	-29.10	54	-	-	-	-	250	310	Α	Н
CH 78 2480MHz	*	2480	97.96	-	-	85.81	32.68	8.78	29.31	250	5	Р	٧
2400WITZ	*	2480	73.17	-	-	-	-	-	-	250	5	Α	V
		2497.55	50.19	-23.81	74	37.99	32.7	8.78	29.28	250	5	Р	٧
		2497.55	25.4	-28.60	54	-	-	-	-	250	5	Α	٧
Pemark	1. N	o other spurio	us found.										

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Remark | 2. All results are PASS against Peak and Average limit line.

2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

ВТ	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
рт		4804	44.31	-29.69	74	25.26	34.39	12.86	28.2	151	219	Р	Н
BT CH 00		4804	19.52	-34.48	54	ı	-	1	-	151	219	Α	Н
2402MHz		4804	45.1	-28.90	74	26.05	34.39	12.86	28.2	151	219	Р	V
2402111112		4804	20.31	-33.69	54	-	-	-	-	151	219	Α	V
		4882	45.04	-28.96	74	25.82	34.43	12.98	28.19	115	258	Р	Н
		4882	20.25	-33.75	54	ı	1	ı	1	115	258	Α	Н
5.7		7323	47.48	-26.52	74	23.42	36.23	14.71	26.88	152	309	Р	Н
BT CH 39		7323	22.69	-31.31	54	1	-	ı	1	152	309	Α	Н
2441MHz		4882	44.24	-29.76	74	25.02	34.43	12.98	28.19	115	258	Р	V
244 1141112		4882	19.45	-34.55	54	1	1	1	1	115	258	Α	V
		7323	48.48	-25.52	74	24.42	36.23	14.71	26.88	152	309	Р	V
		7323	23.69	-30.31	54	ı	1	ı	1	152	309	Α	V
		4960	45.94	-28.06	74	26.54	34.48	13.1	28.18	118	289	Р	Н
		4960	21.15	-32.85	54	-	-	-	-	118	289	Α	Н
		7440	47.97	-26.03	74	23.73	36.28	14.77	26.81	158	273	Р	Н
BT CH 70		7440	23.18	-30.82	54	-	-	-	-	158	273	Α	Н
CH 78 2480MHz		4960	46.03	-27.97	74	26.63	34.48	13.1	28.18	118	289	Р	V
ZHOUNINZ		4960	21.24	-32.76	54	-	-	-	-	118	289	Α	V
<u> </u>		7440	47.69	-26.31	74	23.45	36.28	14.77	26.81	158	273	Р	V
		7440	22.9	-31.10	54	-	-	-	-	158	273	Α	V

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Remark

1. No other spurious found.

2. All results are PASS against Peak and Average limit line.

Emission below 1GHz

2.4GHz BT (LF)

ВТ	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		83.35	33.38	-6.62	40	47.54	10.29	1.4	25.85	150	360	Р	Н
		169.68	33.5	-10.00	43.5	45.01	11.87	2.03	25.41	-	-	Р	Н
		357.86	24.67	-21.33	46	32.3	14.86	3	25.49	-	-	Р	Н
		522.76	27.78	-18.22	46	30.96	19.47	3.71	26.36	-	-	Р	Н
0.4011		739.07	36.3	-9.70	46	37	21.15	4.44	26.29	-	-	Р	Н
2.4GHz BT		877.78	30.56	-15.44	46	29.85	21.8	4.85	25.94	-	-	Р	Н
LF		82.38	31.92	-8.08	40	46.12	10.26	1.39	25.85	-	-	Р	V
		169.68	25.08	-18.42	43.5	36.59	11.87	2.03	25.41	-	-	Р	V
		358.83	22.8	-23.20	46	30.42	14.87	3.01	25.5	-	-	Р	V
		508.21	24.97	-21.03	46	28.3	19.42	3.6	26.35	-	-	Р	V
		742.95	39.13	-6.87	46	39.67	21.24	4.5	26.28	150	337	Р	V
		978.66	29.77	-24.23	54	28.64	21.29	5.11	25.27	-	-	Р	V
		978.66	29.77	-24.23	54	28.64	21.29	5.11	25.27	-	-	Р	V

Remark

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^{1.} No other spurious found.

^{2.} All results are PASS against limit line.

Note symbol

	Fundamental Frequency which can be ignored. However, the level of any						
*	unwanted emissions shall not exceed the level of the fundamental frequency per						
	15.209(c).						
!	Test result is over limit line.						
P/A	Peak or Average						
H/V	Horizontal or Vertical						

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A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level($dB\mu V/m$) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

SPORTON INTERNATIONAL (SHENZHEN) INC.

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