FCC RF Test Report

APPLICANT CT Asia

EQUIPMENT Mobile phone

BRAND NAME BLU

MODEL NAME Dash 3.5 Ce

FCC ID YHLBLUDASH35CE

STANDARD FCC Part 15 Subpart C §15.247

CLASSIFICATION (DTS) Digital Transmission System

The product was received on Jan. 09, 2015 and testing was completed on Jan. 17, 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

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Testing Laboratory 2353

Report No.: FR510904C

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR510904C	Rev. 01	Initial issue of report	Jan. 26, 2015

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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)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges 15.247(d) < 20dBc		Pass	-
3.4		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated 15.209(a) & Pass Spurious Emission 15.247(d)		Pass	Under limit 2.32 dB at 2389.650 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 11.87 dB at 4.550 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

Tinno Mobile Technology Corp.

4/F, H-3 Building, OCT Eastern industrial Park, No.1 XiangShan East Road., Nan Shan District, Shenzhen, P. R. China

1.3 Product Feature of Equipment Under Test

P	Product Feature							
Equipment	Mobile phone							
Brand Name	BLU							
Model Name	Dash 3.5 Ce							
FCC ID	YHLBLUDASH35CE							
	GSM/GPRS/							
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40/							
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE							
HW Version	V1.0							
SW Version	S3510BP_PR_KK_BLU_US_09_03							
EUT Stage	Identical Prototype							

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 Channel Frequency Range	2412 MHz ~ 2462 MHz						
	802.11b : 18.60 dBm (0.0724 W)						
Maximum (Peak) Output Power to	802.11g : 23.69 dBm (0.2339 W)						
Antenna	802.11n HT20 : 23.18 dBm (0.2080 W)						
	802.11n HT40 : 20.52 dBm (0.1127 W)						
Antenna Type / Gain	IFA Antenna with gain 0.75 dBi						
Type of Modulation	802.11b: DSSS (DBPSK / DQPSK / CCK)						
Type of Modulation	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)						

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

Test Site	SPORTON INTERNATIONAL (SHEN	ZHEN) INC.			
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China				
	TEL: +86-755-3320-2398				
Took Cita No	Sporton Site No.	FCC Registration No.			
Test Site No.	03CH01-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 C63.10-2013

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 above 1 GHz 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

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: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	1	2412	7	2442
	2	2417	8	2447
0400 0400 F MU-	3	2422	9	2452
2400-2483.5 MHz	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-

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2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test shown in the following tables.

	2.4GHz 802.11b RF Output Power (dBm)									
Pow	er vs. Chan	nel	Power vs. Data Rate							
Channel	Frequency	Data Rate	Channel	2Mbps	5.5Mbps	11Mbps				
	(MHz)	1Mbps		•	·	·				
CH 01	2412 MHz	18.49		15.58						
CH 06	2437 MHz	18.54	CH 11		18.54	18.51				
CH 11	2462 MHz	<mark>18.60</mark>								

	2.4GHz 802.11g RF Output Power (dBm)										
Power vs. Channel			Power vs. Data Rate								
Channel	Frequency		Channel	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps	
	(MHz)	6Mbps									
CH 01	2412 MHz	23.14		23.63	23.63 23.65	23.58	23.58 23.61			23.65	
CH 06	2437 MHz	23.62	CH 11					23.63	23.55		
CH 11	2462 MHz	23.69									

	2.4GHz 802.11n HT20 RF Output Power (dBm)										
Power vs. Channel				Power vs. MCS Index							
Channel	Frequency		Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
	(MHz)	MCS0									
CH 01	2412 MHz	22.72			22.87 22.83			71 22.67	22.71	22.54	
CH 06	2437 MHz	22.87	CH 11	22.87		22.84	22.84 22.71				
CH 11	2462 MHz	<mark>23.18</mark>									

	2.4GHz 802.11n HT40 RF Output Power (dBm)										
Power vs. Channel				Power vs. MCS Index							
Channel	Frequency (MHz)		Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
		MCS0									
CH 03	2422 MHz	20.31			19.62 19.52				19.15		
CH 06	2437 MHz	20.40	CH 09	19.62		19.45	9.45 19.42	19.20		18.64	
CH 09	2452 MHz	<mark>20.52</mark>									

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2.3 Test Mode

Final results of test modes, data rates and test channels are shown as following table.

	·	Test Cases						
	Test Items	Mode	Data Rate	Test Channel				
		802.11b	1 Mbps	1/6/11				
	6dB BW	802.11g	6 Mbps	1/6/11				
	Power Spectral	802.11n HT20	MCS0	1/6/11				
	Density	802.11n HT40	MCS0	3/6/9				
		802.11b	1 Mbps	1/6/11				
		802.11g	6 Mbps	1/6/11				
	Output Power	802.11n HT20	MCS0	1/6/11				
Conducted		802.11n HT40	MCS0	3/6/9				
TCs		802.11b	1 Mbps	1/11				
	Conducted Band	802.11g	6 Mbps	1/11				
	Edge	802.11n HT20	MCS0	1/11				
		802.11n HT40	MCS0	3/9				
		802.11b	1 Mbps	1/6/11				
	Conducted Spurious	802.11g	6 Mbps	1/6/11				
	Emission	802.11n HT20	MCS0	1/6/11				
		802.11n HT40	MCS0	3/6/9				
		802.11b	1 Mbps	1/11				
	Dadiated David Edge	802.11g	6 Mbps	1/11				
	Radiated Band Edge	802.11n HT20	MCS0	1/11				
Radiated		802.11n HT40	MCS0	3/9				
TCs		802.11b	1 Mbps	1/6/11				
	Radiated Spurious	802.11g	6 Mbps	1/6/11				
	Emission	802.11n HT20	MCS0	1/6/11				
		802.11n HT40	MCS0	3/6/9				
AC Conducted	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable (Charging from Adapter) + SIM1							
Emission	7.135,10.7							
Remark: For radiated TCs, the tests were performed with adapter, earphone and USB cable.								

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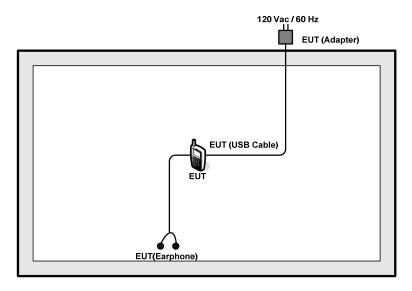
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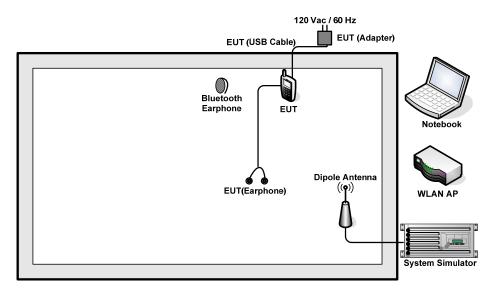
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2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



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2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
						AC I/P:
3.		1	E540	500 D-0	NI/A	Unshielded, 1.2 m
3.	Notebook	Lenovo	E540	FCC DoC	N/A	DC O/P:
						Shielded, 1.8 m
1	Bluetooth	Nokia	BH-108	PYAHS-107W	N/A	N/A
4.	Earphone			PTANS-107W	IN/A	IN/A

2.6 EUT Operation Test Setup

For WLAN RF test items, an 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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2.7 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 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 measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r02.
- 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) = 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



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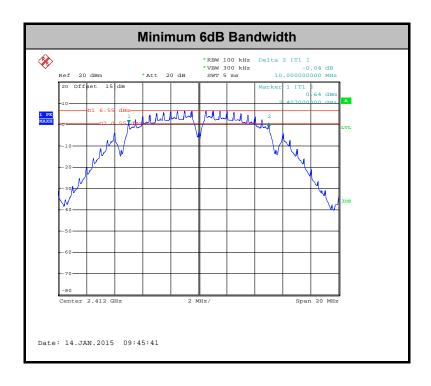
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3.1.5 Test Result of 6dB Bandwidth

Test Band :	2.4GHz	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
11b	1Mbps	1	1	2412	10.00	0.5	Pass
11b	1Mbps	1	6	2437	10.00	0.5	Pass
11b	1Mbps	1	11	2462	10.00	0.5	Pass
11g	6Mbps	1	1	2412	16.36	0.5	Pass
11g	6Mbps	1	6	2437	16.32	0.5	Pass
11g	6Mbps	1	11	2462	16.36	0.5	Pass
HT20	MCS0	1	1	2412	17.56	0.5	Pass
HT20	MCS0	1	6	2437	17.60	0.5	Pass
HT20	MCS0	1	11	2462	17.56	0.5	Pass
HT40	MCS0	1	3	2422	36.24	0.5	Pass
HT40	MCS0	1	6	2437	36.24	0.5	Pass
HT40	MCS0	1	9	2452	36.24	0.5	Pass



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3.2 Output Power Measurement

3.2.1 Limit of 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 are 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.

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

- 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 :	2.4GHz	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	RF Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	18.49	30	0.75	Pass
11b	1Mbps	1	6	2437	18.54	30	0.75	Pass
11b	1Mbps	1	11	2462	18.60	30	0.75	Pass
11g	6Mbps	1	1	2412	23.14	30	0.75	Pass
11g	6Mbps	1	6	2437	23.62	30	0.75	Pass
11g	6Mbps	1	11	2462	23.69	30	0.75	Pass
HT20	MCS0	1	1	2412	22.72	30	0.75	Pass
HT20	MCS0	1	6	2437	22.87	30	0.75	Pass
HT20	MCS0	1	11	2462	23.18	30	0.75	Pass
HT40	MCS0	1	3	2422	20.31	30	0.75	Pass
HT40	MCS0	1	6	2437	20.40	30	0.75	Pass
HT40	MCS0	1	9	2452	20.52	30	0.75	Pass

Note: Measured power (dBm) has offset with cable loss.

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3.2.6 Test Result of Average output Power (Reporting Only)

Test Mode :	2.4GHz	Temperature :	24~26℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	Duty Factor (dB)	Average Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	0.08	15.49	30	0.75	Pass
11b	1Mbps	1	6	2437	0.08	15.56	30	0.75	Pass
11b	1Mbps	1	11	2462	0.08	15.65	30	0.75	Pass
11g	6Mbps	1	1	2412	0.48	12.60	30	0.75	Pass
11g	6Mbps	1	6	2437	0.48	12.80	30	0.75	Pass
11g	6Mbps	1	11	2462	0.48	12.84	30	0.75	Pass
HT20	MCS0	1	1	2412	0.50	11.64	30	0.75	Pass
HT20	MCS0	1	6	2437	0.50	11.71	30	0.75	Pass
HT20	MCS0	1	11	2462	0.50	11.95	30	0.75	Pass
HT40	MCS0	1	3	2422	0.99	8.78	30	0.75	Pass
HT40	MCS0	1	6	2437	0.99	8.85	30	0.75	Pass
HT40	MCS0	1	9	2452	0.99	8.94	30	0.75	Pass

Note: Measured power (dBm) has offset with cable loss and duty factor.

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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.

3.3.2 Measuring Instruments

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

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 analyser'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.

3.3.4 Test Setup



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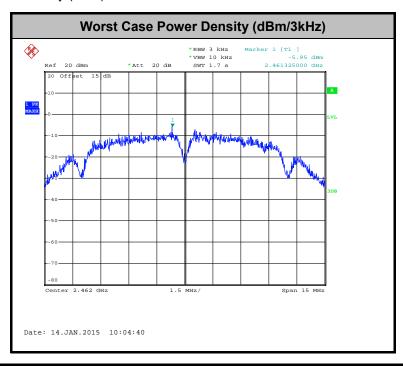
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3.3.5 Test Result of Power Spectral Density

Test Mode :	2.4GHz	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	Peak Power Density (dBm/3kHz)	Max. Limits (dBm/3kHz)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	-8.21	8	0.75	Pass
11b	1Mbps	1	6	2437	-7.75	8	0.75	Pass
11b	1Mbps	1	11	2462	-5.95	8	0.75	Pass
11g	6Mbps	1	1	2412	-12.13	8	0.75	Pass
11g	6Mbps	1	6	2437	-13.28	8	0.75	Pass
11g	6Mbps	1	11	2462	-12.38	8	0.75	Pass
HT20	MCS0	1	1	2412	-14.73	8	0.75	Pass
HT20	MCS0	1	6	2437	-13.29	8	0.75	Pass
HT20	MCS0	1	11	2462	-13.75	8	0.75	Pass
HT40	MCS0	1	3	2422	-21.12	8	0.75	Pass
HT40	MCS0	1	6	2437	-20.88	8	0.75	Pass
HT40	MCS0	1	9	2452	-20.23	8	0.75	Pass

Note: Measured power density (dBm) has offset with cable loss.



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3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

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 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



SPORTON INTERNATIONAL (SHENZHEN) INC.

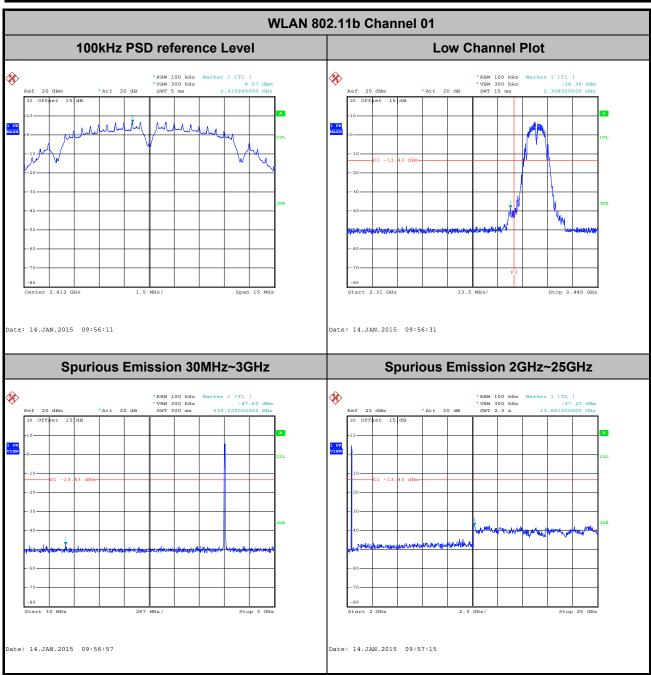
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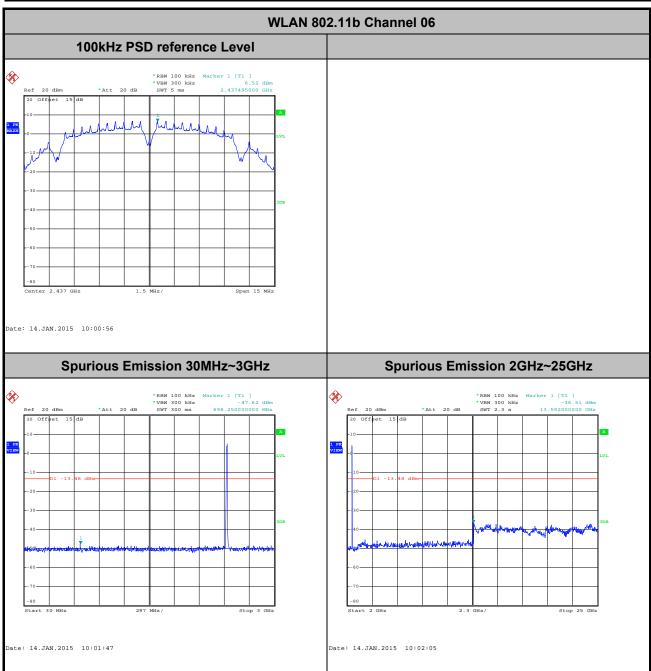
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Mode :	802.11b	Temperature :	24~26 ℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Fly Liang



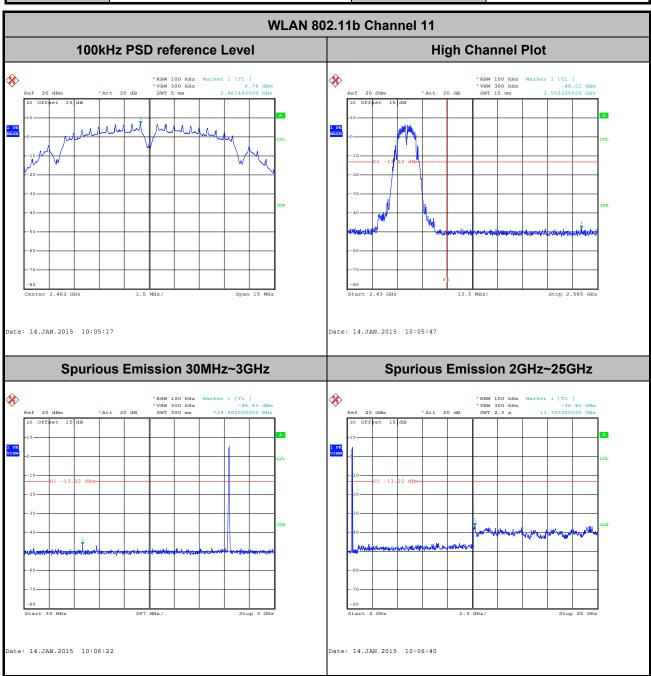
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Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Fly Liang



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Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Fly Liang

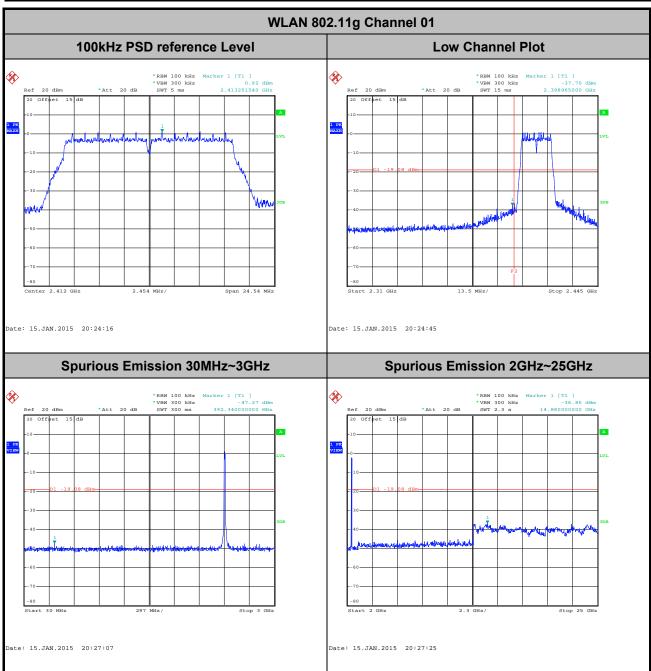


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 Test Mode :
 802.11g
 Temperature :
 24~26 ℃

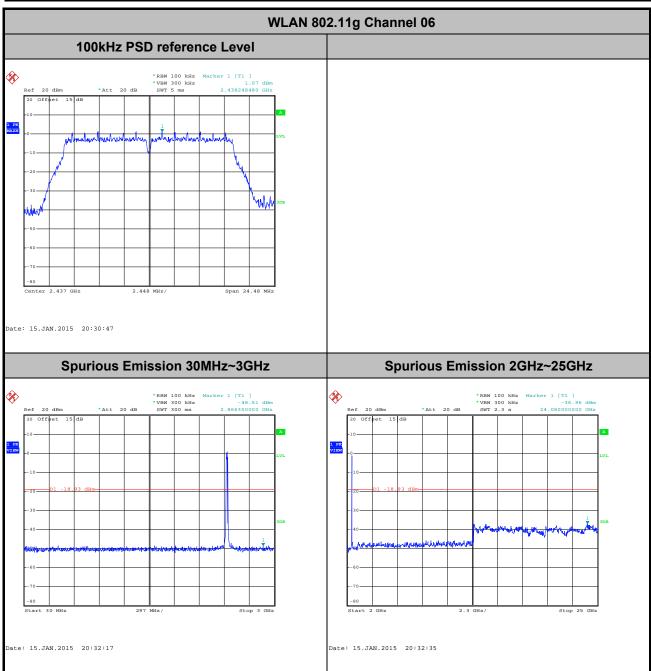
 Test Band :
 2.4GHz Low
 Relative Humidity :
 50~53%

 Test Channel :
 01
 Test Engineer :
 Fly Liang



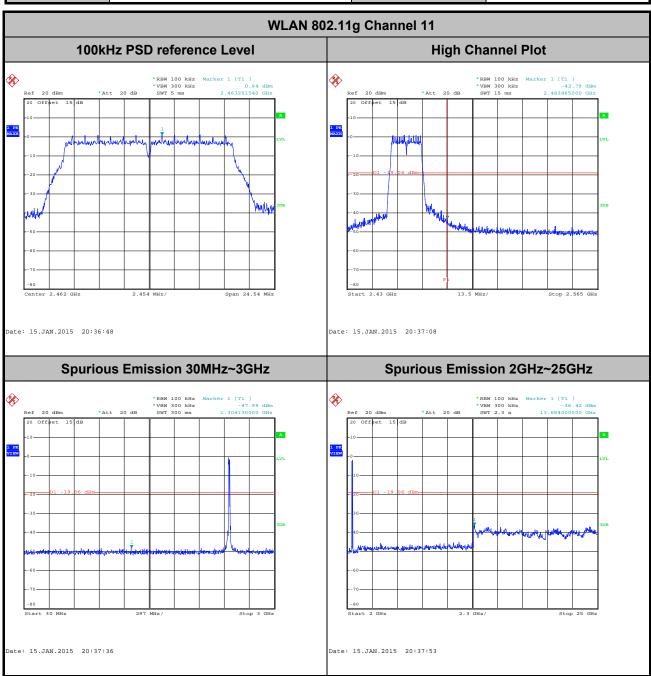
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Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Fly Liang



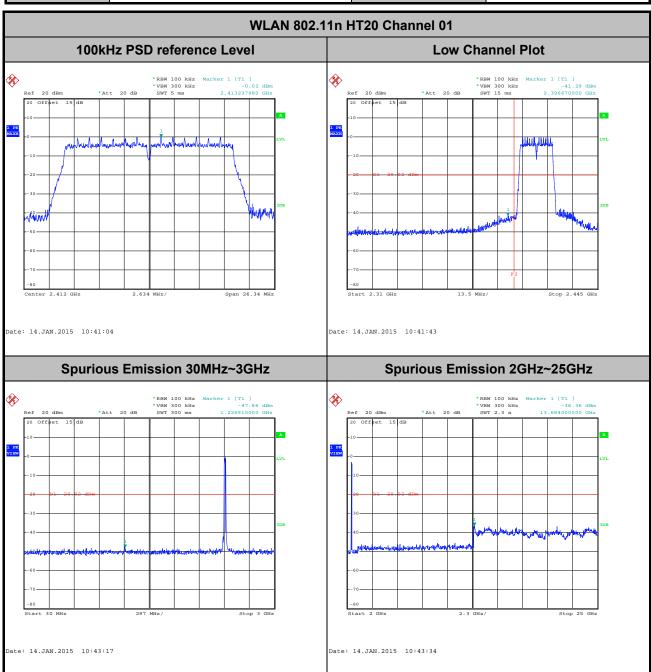
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Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Fly Liang



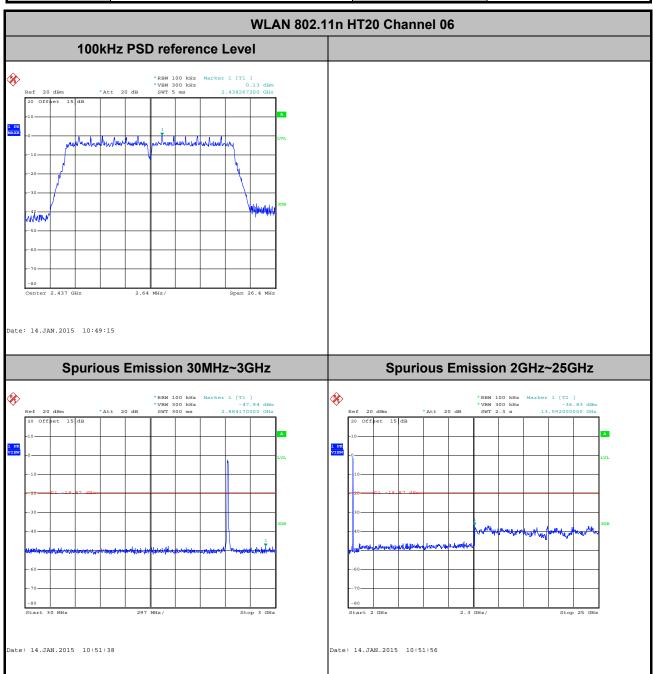
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Fly Liang



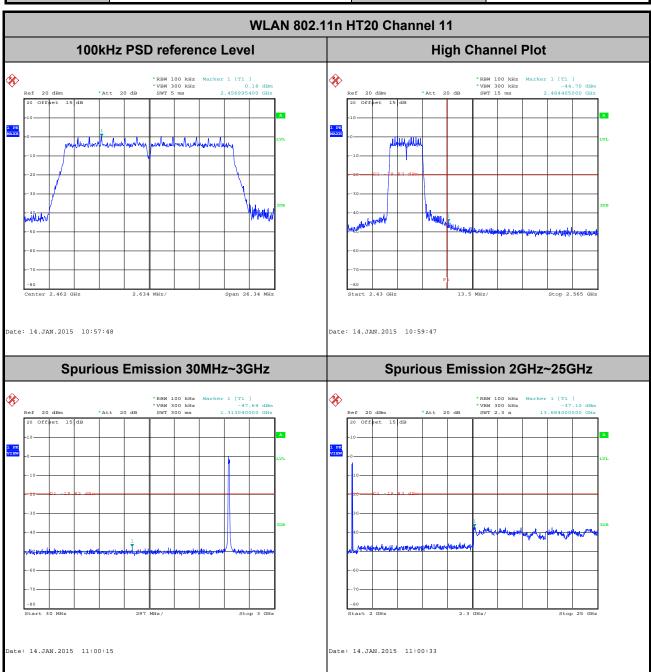
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Fly Liang



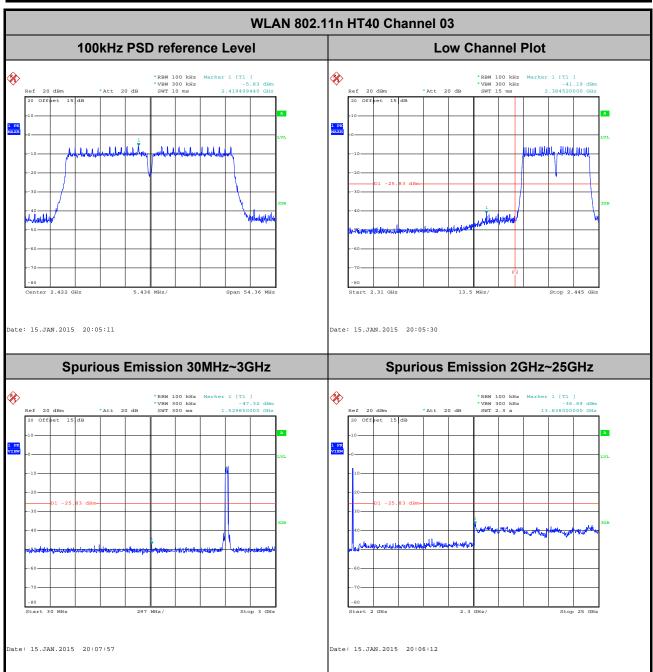
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Test Mode :	802.11n HT20	Temperature :	24~26 ℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Fly Liang



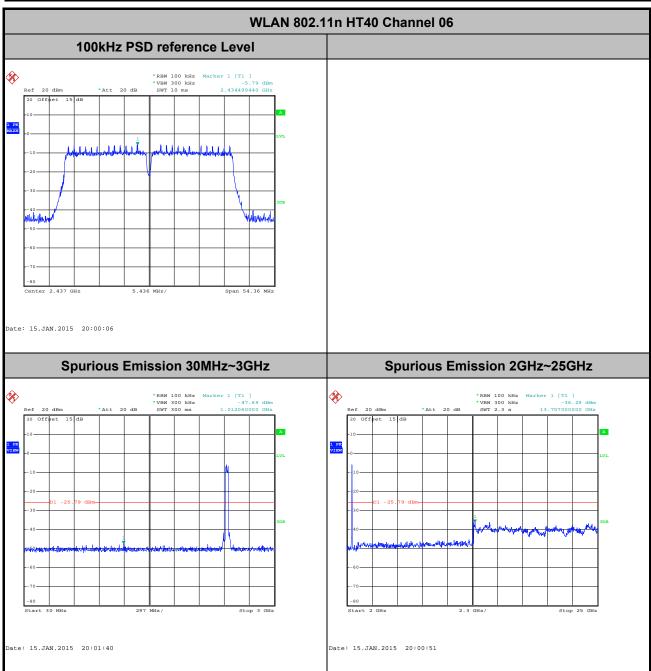
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Test Mode :	802.11n HT40	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	03	Test Engineer :	Fly Liang



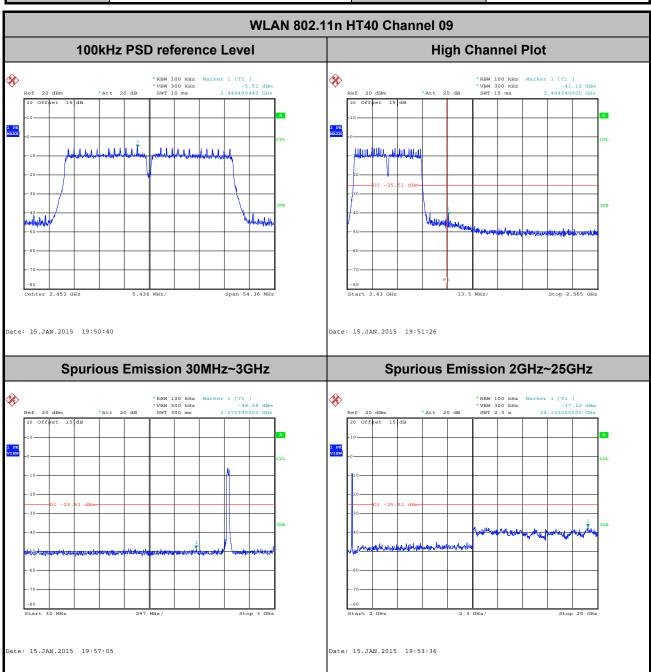
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Test Mode :	802.11n HT40	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Fly Liang



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Test Mode :	802.11n HT40	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	09	Test Engineer :	Fly Liang



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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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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.
- 3. 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.
- 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
802.11b	98.26	-	-	10Hz
802.11g	89.51	1.40	0.71	1kHz
2.4GHz 802.11n HT20	89.04	1.32	0.76	1kHz
2.4GHz 802.11n HT40	79.61	0.66	1.52	3kHz

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3.5.4 Test Setup

For radiated emissions below 30MHz

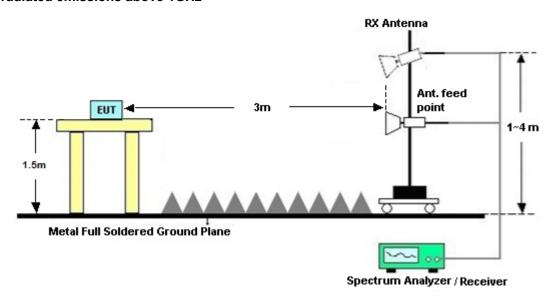


For radiated emissions from 30MHz to 1GHz



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For radiated emissions above 1GHz



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

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.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

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

Please refer to Appendix A.

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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	Conducted	Limit (dΒμV)
(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 measuring equipment is listed in the section 4 of this test report.

3.6.3 **Test Procedures**

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it 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.

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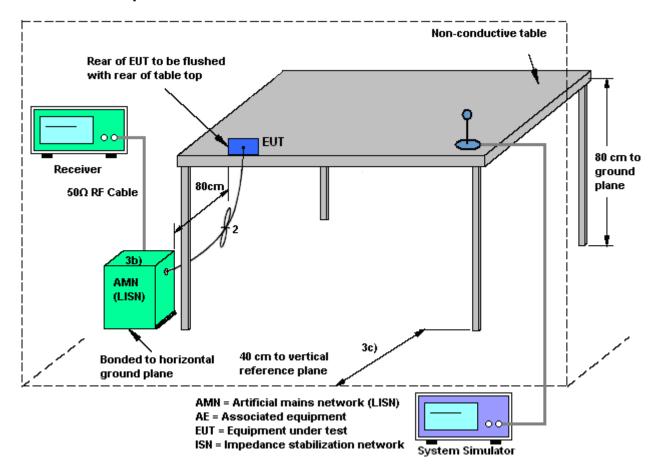
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3.6.4 Test Setup

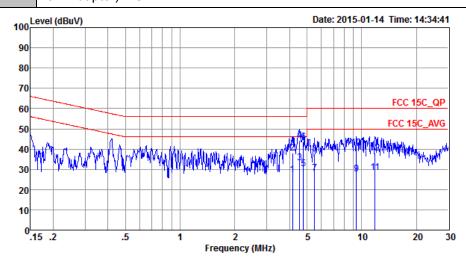


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3.6.5 **Test Result of AC Conducted Emission**

Test Mode :	Mode 1	Temperature :	21~22 ℃
Test Engineer :	Jack Tian	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + Bluetooth Li	ink + WLAN Link + Ea	rphone + USB Cable (Charging

from Adapter) + SIM1



: CO01-SZ

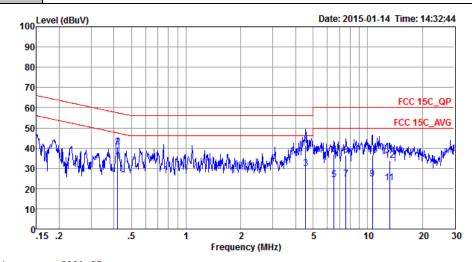
Condition: FCC 15C_QP LISN_L_20140304 LINE

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBu₹	dBuV	dB	dB	
1	4.16	27.21	-18.79	46.00	16.60	0.38	10.23	Average
2	4.16	38.01	-17.99	56.00	27.40	0.38	10.23	QP
3	4.55	33.23	-12.77	46.00	22.60	0.40	10.23	Average
4 *	4.55	44.13	-11.87	56.00	33.50	0.40	10.23	QP
5	4.77	30.35	-15.65	46.00	19.70	0.41	10.24	Average
6	4.77	43.55	-12.45	56.00	32.90	0.41	10.24	QP
7	5.51	28.16	-21.84	50.00	17.50	0.41	10.25	Average
8	5.51	37.76	-22.24	60.00	27.10	0.41	10.25	QP
9	9.35	27.61	-22.39	50.00	16.71	0.59	10.31	Average
10	9.35	40.61	-19.39	60.00	29.71	0.59	10.31	QP
11	11.87	28.49	-21.51	50.00	17.09	0.99	10.41	Average
12	11.87	38.09	-21.91	60.00	26.69	0.99	10.41	QP

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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 Tune	GSM850 Idle + Bluetooth Li	nk + WLAN Link + Ea	rphone + USB Cable (Charging
Function Type :	from Adapter) + SIM1		



Site : C001-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 dBuV dBuV dB dB dB

1 * 0.42 33.56 -13.90 47.46 23.00 0.39 10.17 Average
2 0.42 40.66 -16.80 57.46 30.10 0.39 10.17 QP
3 4.55 29.71 -16.29 46.00 19.00 0.48 10.23 Average
4 4.55 41.21 -14.79 56.00 30.50 0.48 10.23 QP
5 6.52 24.22 -25.78 50.00 13.50 0.45 10.27 Average
6 6.52 36.82 -23.18 60.00 26.10 0.45 10.27 QP

6.52 36.82 -23.18 60.00 26.10 6 0.45 10.27 QP 7.61 24.89 -25.11 50.00 14.10 7.61 36.39 -23.61 60.00 25.60 10.62 24.70 -25.30 50.00 13.50 0.50 10.29 Average 0.50 10.29 QP 7 8 0.85 10.35 Average 9 10.62 36.50 -23.50 60.00 25.30 0.85 10.35 QP 10 13.20 22.80 -27.20 50.00 11.01 13.20 34.10 -25.90 60.00 22.31 11 1.33 10.46 Average 1.33 10.46 QP 12

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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. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 Analyzer	R&S	FSV40	101078	10Hz~40GHz	May 08, 2014	Jan. 14, 2015~ Jan. 15, 2015	May 07, 2015	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	13dBm ~-20dBm	Mar. 03, 2014	Jan. 14, 2015~ Jan. 15, 2015	Mar. 02, 2015	Conducted (TH01-SZ)
Power Sensor	Dare	RPR3006W	TH01SZ00 019	0.3GHz~6GHz	Mar. 14, 2014	Jan. 14, 2015~ Jan. 15, 2015	Mar. 13, 2015	Conducted (TH01-SZ)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Jan. 17, 2015	Feb. 20, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY522601 85	20Hz~26.5GHz	May 26, 2014	Jan. 17, 2015	May 25, 2015	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 09, 2014	Jan. 17, 2015	May 08, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	37877	30MHz~2GHz	Oct. 15, 2014	Jan. 17, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Jan. 17, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Double Ridged Horn Antenna	COM-POWER	AH-840	101073	18GHz~40GHz	Jun. 09, 2014	Jan. 17, 2015	Jun. 08, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	Jan. 17, 2015	Feb. 20, 2015	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	Jan. 17, 2015	May 07, 2015	Radiation (03CH01-SZ)
AC Source(AVR)	Chroma	61601	616010001 985	100Vac~250Vac	Mar. 25, 2014	Jan. 17, 2015	Mar. 24, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Jan. 17, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Jan. 17, 2015	NCR	Radiation (03CH01-SZ)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Jan. 14, 2015	Feb. 20, 2015	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 04, 2014	Jan. 14, 2015	Mar. 03, 2015	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 04, 2014	Jan. 14, 2015	Mar. 03, 2015	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Sep. 29, 2014	Jan. 14, 2015	Sep. 28, 2015	Conduction (CO01-SZ)

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Uncertainty of Evaluation 5

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

Measuring Uncertainty for a Level of	2.3 dB
Confidence of 95% (U = 2Uc(y))	2.3 UB

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

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

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Appendix A. Radiated Spurious Emission

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

		Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
WIFI	Note	(BALL-)	(dD.:\//rrc \	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	(1100
		(MHz) 2386.5	(dBµV/m) 52.55	(dB)	(dBµV/m) 74	(dBµV) 40.61	(dB/m) 32.6	(dB) 8.6	(dB) 29.26	(cm)	(deg) 181	(P/A)	(n/v) H
			41.29	-12.71	54	29.35	32.6	8.6	29.26	177	181	-	Н
	*	2389.92			54							Α	
802.11b		2412	104.35	-	-	92.38	32.61	8.6	29.24	177	181	Р	Н
CH 01	*	2412	102.16	-	-	90.19	32.61	8.6	29.24	177	181	Α	Н
2412MHz		2380.02	50.63	-23.37	74	38.76	32.58	8.51	29.22	183	24	Р	V
241211112		2386.05	39.33	-14.67	54	27.39	32.6	8.6	29.26	183	24	Α	V
	*	2412	100.79	-	-	88.82	32.61	8.6	29.24	183	24	Р	V
	*	2412	98.6	-	-	86.63	32.61	8.6	29.24	183	24	Α	V
		2389.02	51.24	-22.76	74	39.3	32.6	8.6	29.26	175	182	Р	Н
		2385.51	40.1	-13.9	54	28.16	32.6	8.6	29.26	175	182	Α	Н
	*	2437	104.22	-	1	92.08	32.65	8.69	29.2	175	182	Р	Н
	*	2437	102.02	-	-	89.88	32.65	8.69	29.2	175	182	Α	Н
		2491.64	51.76	-22.24	74	39.42	32.7	8.78	29.14	175	182	Р	Н
802.11b		2488.4	39.92	-14.08	54	27.58	32.7	8.78	29.14	175	182	Α	Н
CH 06 2437MHz		2363.46	50.84	-23.16	74	38.95	32.56	8.51	29.18	154	360	Р	V
2437141112		2385.69	39.29	-14.71	54	27.35	32.6	8.6	29.26	154	360	Α	V
	*	2437	102.93	-	-	90.79	32.65	8.69	29.2	154	360	Р	V
	*	2437	100.73	-	-	88.59	32.65	8.69	29.2	154	360	Α	V
		2491.92	50.98	-23.02	74	38.64	32.7	8.78	29.14	154	360	Р	V
		2488.32	39.57	-14.43	54	27.23	32.7	8.78	29.14	154	360	Α	V

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105.32 32.67 29.18 Р 2462 93.14 8.69 173 183 Н * 2462 103.15 90.97 32.67 8.69 29.18 173 183 Н Α 2486.36 53.33 -20.67 74 41.03 32.68 8.78 29.16 173 183 Ρ Н 802.11b 2493.16 41.82 -12.18 54 29.48 32.7 8.78 29.14 173 183 Α Н CH 11 2462 104.73 92.55 32.67 8.69 29.18 189 69 Ρ ٧ 2462MHz 2462 102.6 90.42 32.67 29.18 189 ٧ 8.69 69 Α -21.08 Р ٧ 2495.12 52.92 74 40.58 32.7 8.78 29.14 189 69 ٧ 2493.2 41.82 -12.18 54 29.48 Α 32.7 8.78 29.14 189 69 No other spurious found. Remark

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

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

		F		0	1 ! !4	Darad	A 4	0-51-	D	A 4	Table	Da ala	D-L
		Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
WIFI	Note			Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	i
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		4824	41	-33	74	44.48	34.4	12.86	50.74	110	360	Р	Н
CH 01													
2412MHz		4824	42.35	-31.65	74	45.83	34.4	12.86	50.74	110	360	Р	>
		4874	41.6	-32.4	74	44.83	34.43	12.92	50.58	100	360	Р	Н
802.11b		7311	40.96	-33.04	74	40.91	36.22	14.71	50.88	174	100	Р	Н
CH 06 2437MHz		4874	39.77	-34.23	74	43	34.43	12.92	50.58	100	360	Р	٧
2437 WH 12		7311	41.08	-32.92	74	41.03	36.22	14.71	50.88	174	100	Р	٧
000 441		4924	39.66	-34.34	74	42.58	34.46	13.04	50.42	146	347	Р	Н
802.11b		7386	39.7	-34.3	74	39.57	36.26	14.75	50.88	145	274	Р	Н
CH 11 2462MHz		4924	40.96	-33.04	74	43.88	34.46	13.04	50.42	146	347	Р	٧
2702IVII IZ		7386	40.33	-33.67	74	40.2	36.26	14.75	50.88	145	274	Р	٧
Remark	No other spurious found.												
	2. Al	I results are PA	SS against F	Peak and	Average lim	it line.							

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15C 2.4GHz 2400~2483.5MHz WIFI 802.11g (Band Edge @ 3m)

		Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant		Peak	
WIFI	Note	(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	
		2388.03	64.17	-9.83	74	52.23	32.6	8.6	29.26	181	156	Р	Н
		2389.65	51.68	-2.32	54	39.74	32.6	8.6	29.26	181	156	Α	Н
	*	2412	104.31	-	-	92.34	32.61	8.6	29.24	181	156	Р	Н
802.11g	*	2412	96.51	-	-	84.54	32.61	8.6	29.24	181	156	Α	Н
CH 01 2412MHz		2387.49	64.8	-9.2	74	52.86	32.6	8.6	29.26	198	60	Р	٧
2412111112		2389.92	50.45	-3.55	54	38.51	32.6	8.6	29.26	198	60	Α	٧
	*	2412	104.3	-	-	92.33	32.61	8.6	29.24	198	60	Р	٧
	*	2412	96.4	-	-	84.43	32.61	8.6	29.24	198	60	Α	٧
		2389.65	57.18	-16.82	74	45.24	32.6	8.6	29.26	177	173	Р	Н
		2388.12	45.09	-8.91	54	33.15	32.6	8.6	29.26	177	173	Α	Н
	*	2437	109.29	ı	-	97.15	32.65	8.69	29.2	177	173	Р	Н
	*	2437	101.31	-	-	89.17	32.65	8.69	29.2	177	173	Α	Н
000 44		2488.48	55.83	-18.17	74	43.49	32.7	8.78	29.14	177	173	Р	Н
802.11g CH 06		2492.92	44.68	-9.32	54	32.34	32.7	8.78	29.14	177	173	Α	Н
2437MHz		2374.8	51.91	-22.09	74	40.04	32.58	8.51	29.22	155	331	Р	V
2437111112		2389.83	41.59	-12.41	54	29.65	32.6	8.6	29.26	155	331	Α	V
	*	2437	105.11	-	-	92.97	32.65	8.69	29.2	155	331	Р	V
	*	2437	97.25	-	-	85.11	32.65	8.69	29.2	155	331	Α	V
		2499.96	52.12	-21.88	74	39.78	32.7	8.78	29.14	155	331	Р	V
		2493.64	41.57	-12.43	54	29.23	32.7	8.78	29.14	155	331	Α	V

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2461.707 32.67 Р 106.34 94.16 8.69 29.18 177 39 Н 2460.955 98.9 86.72 32.67 8.69 29.18 177 Н 39 Α 2484.08 70.29 -3.71 74 57.99 32.68 8.78 29.16 177 Ρ Н 39 802.11g 2483.8 51.12 -2.88 54 38.82 32.68 8.78 29.16 177 Α Н 39 **CH 11** 2463.71 98.66 86.39 32.67 8.78 29.18 132 315 Ρ ٧ 2462MHz 2462.792 90.75 78.48 32.67 29.18 132 ٧ 8.78 315 Α Р ٧ 2486.76 62.6 -11.4 74 50.3 32.68 8.78 29.16 132 315 ٧ 2483.72 44.68 -9.32 54 32.38 32.68 8.78 29.16 132 315 Α No other spurious found. Remark

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

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15C 2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

	ì						<u> </u>			1			
		Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
WIFI	Note			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)
802.11g		4824	35.42	-38.58	74	38.9	34.4	12.86	50.74	110	360	Р	Н
CH 01													
2412MHz		4824	36.84	-37.16	74	40.32	34.4	12.86	50.74	110	360	Р	V
000 44		4874	37.61	-36.39	74	40.84	34.43	12.92	50.58	100	360	Р	Н
802.11g CH 06		7311	40.05	-33.95	74	40	36.22	14.71	50.88	174	100	Р	Н
2437MHz		4874	36.37	-37.63	74	39.6	34.43	12.92	50.58	100	360	Р	V
240711112		7311	40.22	-33.78	74	40.17	36.22	14.71	50.88	174	100	Р	V
000 44		4924	37.46	-36.54	74	40.38	34.46	13.04	50.42	146	347	Р	Н
802.11g CH 11		7386	39.78	-34.22	74	39.65	36.26	14.75	50.88	145	274	Р	Н
2462MHz		4924	37.79	-36.21	74	40.71	34.46	13.04	50.42	146	347	Р	V
240211112		7386	39.84	-34.16	74	39.71	36.26	14.75	50.88	145	274	Р	V
Remark	1. No	o other spurious	s found.										
	2. Al	l results are PA	SS against F	Peak and	Average lim	it line.							

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15C 2.4GHz 2400~2483.5MHz WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
	11010	(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)		(P/A)	(H/V)
		2389.92	64.68	-9.32	74	52.74	32.6	8.6	29.26	181	34	Р	Н
		2389.92	51.59	-2.41	54	39.65	32.6	8.6	29.26	181	34	Α	Н
802.11n	*	2412	105.02	-	-	93.05	32.61	8.6	29.24	181	34	Р	Н
HT20	*	2412	96.76	-	-	84.79	32.61	8.6	29.24	181	34	Α	Н
CH 01		2389.92	53.78	-20.22	74	41.84	32.6	8.6	29.26	100	158	Р	٧
2412MHz		2389.83	42.64	-11.36	54	30.7	32.6	8.6	29.26	100	158	Α	V
	*	2412	95.87	-	-	83.9	32.61	8.6	29.24	100	158	Р	٧
	*	2412	88.04	-	-	76.07	32.61	8.6	29.24	100	158	Α	٧
		2386.41	53.2	-20.8	74	41.26	32.6	8.6	29.26	175	15	Р	Н
		2388.21	42.59	-11.41	54	30.65	32.6	8.6	29.26	175	15	Α	Н
	*	2437	104.89	-	-	92.75	32.65	8.69	29.2	175	15	Р	Н
	*	2437	96.86	-	-	84.72	32.65	8.69	29.2	175	15	Α	Н
802.11n		2493.92	54.79	-19.21	74	42.45	32.7	8.78	29.14	175	15	Р	Н
HT20		2484.8	44.06	-9.94	54	31.76	32.68	8.78	29.16	175	15	Α	Н
CH 06		2382.63	51.73	-22.27	74	39.86	32.58	8.51	29.22	200	73	Р	٧
2437MHz		2381.91	41.35	-12.65	54	29.48	32.58	8.51	29.22	200	73	Α	٧
	*	2437	100.06	-	-	87.92	32.65	8.69	29.2	200	73	Р	٧
	*	2437	91.5	-	-	79.36	32.65	8.69	29.2	200	73	Α	V
		2486.76	53.08	-20.92	74	40.78	32.68	8.78	29.16	200	73	Р	V
		2486.68	41.41	-12.59	54	29.11	32.68	8.78	29.16	200	73	Α	٧

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	*	2462	104.6	-	-	92.42	32.67	8.69	29.18	176	150	Р	Н
	*	2462	96.25	-	-	84.07	32.67	8.69	29.18	176	150	Α	Н
802.11n		2484.4	62.48	-11.52	74	50.18	32.68	8.78	29.16	176	150	Р	Н
HT20		2483.68	47.5	-6.5	54	35.2	32.68	8.78	29.16	176	150	Α	Н
CH 11	*	2462	104.23	-	-	92.05	32.67	8.69	29.18	167	56	Р	٧
2462MHz	*	2462	96.24	-	-	84.06	32.67	8.69	29.18	167	56	Α	٧
		2484.4	64.21	-9.79	74	51.91	32.68	8.78	29.16	167	56	Р	٧
		2483.68	47.45	-6.55	54	35.15	32.68	8.78	29.16	167	56	Α	٧
Domoule	1. No	o other spurious	s found.						•			_	_
Remark	2 ΔΙ	l regulte are PA	SS anainst F	Deak and	Average lim	it line							

All results are PASS against Peak and Average limit line.

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15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

		Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
WIFI	Note			Limit	Line	Level	Factor	Loss	Factor	Pos		Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		4824	34.34	-39.66	74	37.82	34.4	12.86	50.74	110	360	P	Н
HT20		4024	04.04	00.00	/	07.02	04.4	12.00	00.74	110	000	'	
CH 01		1001	00.40	40.00	7.4	00.00	04.4	40.00	50.74	440	000)	.,
2412MHz		4824	33.18	-40.82	74	36.66	34.4	12.86	50.74	110	360	Р	V
802.11n		4874	34.52	-39.48	74	37.75	34.43	12.92	50.58	100	360	Р	Н
HT20		7311	39.46	-34.54	74	39.41	36.22	14.71	50.88	174	100	Р	Н
CH 06		4874	34.91	-39.09	74	38.14	34.43	12.92	50.58	100	360	Р	V
2437MHz		7311	37.95	-36.05	74	37.9	36.22	14.71	50.88	174	100	Р	V
802.11n		4924	35.62	-38.38	74	38.54	34.46	13.04	50.42	146	347	Р	Н
HT20		7386	39.18	-34.82	74	39.05	36.26	14.75	50.88	145	274	Р	Н
CH 11		4924	34.94	-39.06	74	37.86	34.46	13.04	50.42	146	347	Р	V
2462MHz		7386	38.99	-35.01	74	38.86	36.26	14.75	50.88	145	274	Р	V
Remark	1. No	other spurious	s found.										

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

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15C 2.4GHz 2400~2483.5MHz WIFI 802.11n HT40 (Band Edge @ 3m)

		Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
WIFI	Note	,		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	
		2385.51	61.91	-12.09	74	49.97	32.6	8.6	29.26	179	182	Р	Н
		2389.29	50.79	-3.21	54	38.85	32.6	8.6	29.26	179	182	Α	Н
	*	2422	96.83	-	-	84.82	32.63	8.6	29.22	179	182	Р	Н
	*	2422	88.53	-	-	76.52	32.63	8.6	29.22	179	182	Α	Н
802.11n		2492.44	51.06	-22.94	74	38.72	32.7	8.78	29.14	179	182	Р	Н
HT40		2493.16	40.99	-13.01	54	28.65	32.7	8.78	29.14	179	182	Α	Н
CH 03		2389.65	58.72	-15.28	74	46.78	32.6	8.6	29.26	160	328	Р	V
2422MHz		2389.11	48.7	-5.3	54	36.76	32.6	8.6	29.26	160	328	Α	V
	*	2422	94.51	-	-	82.5	32.63	8.6	29.22	160	328	Р	٧
	*	2422	86.89	-	-	74.88	32.63	8.6	29.22	160	328	Α	٧
		2499.76	51.01	-22.99	74	38.67	32.7	8.78	29.14	160	328	Р	٧
		2486.72	40.57	-13.43	54	28.27	32.68	8.78	29.16	160	328	Α	V
		2388.93	57.28	-16.72	74	45.34	32.6	8.6	29.26	142	180	Р	Н
		2389.92	44.7	-9.3	54	32.76	32.6	8.6	29.26	142	180	Α	Н
	*	2437	96.64	-	-	84.5	32.65	8.69	29.2	142	180	Р	Н
	*	2437	88.69	1	-	76.55	32.65	8.69	29.2	142	180	Α	Н
802.11n		2487.52	53.89	-20.11	74	41.55	32.7	8.78	29.14	142	180	Р	Н
HT40		2483.56	42.83	-11.17	54	30.53	32.68	8.78	29.16	142	180	Α	Н
CH 06		2389.38	54.15	-19.85	74	42.21	32.6	8.6	29.26	159	360	Р	V
2437MHz		2389.65	43.06	-10.94	54	31.12	32.6	8.6	29.26	159	360	Α	V
	*	2437	96.29	-	-	84.15	32.65	8.69	29.2	159	360	Р	V
	*	2437	87.57	-	-	75.43	32.65	8.69	29.2	159	360	Α	V
		2486.24	52.18	-21.82	74	39.88	32.68	8.78	29.16	159	360	Р	V
		2483.84	41.84	-12.16	54	29.54	32.68	8.78	29.16	159	360	Α	V

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29.26 Р 2388.48 52.31 -21.69 74 40.37 32.6 8.6 177 18 Н 2389.83 42.28 -11.72 30.34 32.6 29.26 177 54 8.6 18 Α Н 2452 99.95 87.81 32.65 8.69 29.2 177 Р 18 Н 2452 92.7 80.56 32.65 8.69 29.2 177 Α Н 18 2485.08 61.93 -12.07 74 49.63 32.68 8.78 29.16 177 18 Ρ Н 802.11n 2488.24 32.7 29.14 **HT40** 51.65 -2.3554 39.31 8.78 177 18 Α Н **CH 09** -22.99 Р 2380.74 51.01 74 39.14 32.58 8.51 29.22 178 73 V 2452MHz 2379.21 32.58 73 ٧ 40.62 -13.38 54 28.75 8.51 29.22 178 Α 2452 96.44 32.65 8.69 29.2 178 73 Ρ ٧ 84.3 2452 88.25 76.11 32.65 8.69 29.2 178 73 ٧ _ _ Α 2483.92 57.35 32.68 Р -16.65 74 45.05 8.78 29.16 178 73 V 2485 46.46 -7.54 54 34.16 32.68 8.78 29.16 178 73 Α ٧ No other spurious found. Remark All results are PASS against Peak and Average limit line.

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15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

		Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol	
WIFI	Note	Frequency	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
AAILI	Note	(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)		
		, ,			, ,		,			,				
802.11n		4844	36.42	-37.58	74	39.78	34.41	12.92	50.69	100	360	Р	Н	
HT40		7266	40.54	-33.46	74	40.51	36.21	14.7	50.88	200	360	Р	Н	
CH 03		4844	36.89	-37.11	74	40.25	34.41	12.92	50.69	100	360	Р	V	
2422MHz		7266	39.96	-34.04	74	39.93	36.21	14.7	50.88	200	360	Р	V	
802.11n		4874	35.61	-38.39	74	38.84	34.43	12.92	50.58	100	163	Р	Н	
HT40		7311	40.02	-33.98	74	39.97	36.22	14.71	50.88	120	360	Р	Н	
CH 06		4874	36.94	-37.06	74	40.17	34.43	12.92	50.58	100	163	Р	V	
2437MHz		7311	39.88	-34.12	74	39.83	36.22	14.71	50.88	120	360	Р	V	
802.11n		4904	36.94	-37.06	74	39.98	34.45	12.98	50.47	129	360	Р	Н	
HT40		7356	41.78	-32.22	74	41.69	36.24	14.73	50.88	121	320	Р	Н	
CH 09		4904	36.95	-37.05	74	39.99	34.45	12.98	50.47	129	360	Р	V	
2452MHz		7356	41.87	-32.13	74	41.78	36.24	14.73	50.88	121	320	Р	V	
	1. No	o other spurious	s found.											
Remark	2. AI	l results are PA	·											

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15C Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

WIFI	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	l .	Peak Avg.	
	Itoto	(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	i e	(P/A)	
		45.52	26.39	-13.61	40	44.13	11.99	1.03	30.76	100	20	Р	Н
		123.12	20.18	-23.32	43.5	34.72	14.49	1.71	30.74	-	-	Р	Н
		245.34	20.84	-25.16	46	36.64	12.32	2.45	30.57	-	-	Р	Н
		526.64	26.41	-19.59	46	33.15	19.48	3.71	29.93	-	-	Р	Н
		668.26	27.46	-18.54	46	32.54	20.11	4.18	29.37	-	-	Р	Н
2.4GHz		844.8	30.26	-15.74	46	32.55	22.1	4.75	29.14	-	-	Р	Н
802.11g LF		31.94	30.99	-9.01	40	42.28	18.58	0.87	30.74	125	80	Р	V
Lr		134.76	19.27	-24.23	43.5	34.14	14.07	1.79	30.73	-	-	Р	V
		222.06	20.95	-25.05	46	37.3	11.95	2.32	30.62	-	-	Р	V
		495.6	26.05	-19.95	46	33.32	19.21	3.57	30.05	-	-	Р	V
		768.17	29.17	-16.83	46	32.38	21.8	4.51	29.52	-	-	Р	٧
		821.52	31.6	-14.4	46	33.79	22.31	4.74	29.24	-	-	Р	V
Demort	1. N	o other spurious	s found.										
Remark	2. A	I results are PA	SS against li	mit line.									

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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								

SPORTON INTERNATIONAL (SHENZHEN) INC.

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

		Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
WIFI	Note			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)
802.11b		2386.5	52.55	-21.45	74	40.61	32.6	8.6	29.26	177	181	Р	Н
CH 01													
2412MHz		2389.92	41.29	-12.71	54	29.35	32.6	8.6	29.26	177	181	Α	Н

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

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

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

For Peak Limit @ 2386.5MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.6 (dB/m) + 8.6 (dB) + 40.61 (dB\mu V) -29.26 (dB)$
- $= 52.55 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 52.55 (dB\mu V/m) 74(dB\mu V/m)$
- = -21.45 (dB)

For Average Limit @ 2389.92MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.6 (dB/m) + 8.6 (dB) + 29.35 (dB\mu V) -29.26 (dB)$
- $= 41.29 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 41.29(dB\mu V/m) 54(dB\mu V/m)$
- = -12.71 (dB)

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

 ${\it SPORTON\ INTERNATIONAL\ (SHENZHEN)\ INC.}$

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