FCC RF Test Report

APPLICANT : CT Asia (HK) Ltd.

EQUIPMENT : Smartphone

BRAND NAME : BLU

MODEL NAME : LIFE XL L0050UU FCC ID : YHLBLULIFEXL

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Oct. 15, 2015 and testing was completed on Nov. 20, 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.

Prepared by: Andy Yeh / Manager

Andy Jeh

Approved by: Jones Tsai / Manager

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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Testing Laboratory

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE		
FR5O1502C	Rev. 01	Initial issue of report	Dec. 02, 2015		

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	RSS-247 5.2(1)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	RSS-Gen 6.6	99% Bandwidth	-	Pass	-
3.2	15.247(b)	RSS-247 A5.4(4)	Power Output Measurement ≤ 30dBm Pass		Pass	-
3.3	15.247(e)	RSS-247 5.2(2)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	45.045(1)	RSS-247	Conducted Band Edges	- ≤ 20dBc	Pass	-
3.4	15.247(d)	5.5	Conducted Spurious Emission	≤ 20ubc	Pass	-
3.5	15.247(d)	RSS-247 5.5	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.34 dB at 42.610 MHz
3.6	15.207	RSS-GEN 8.8	AC Conducted Emission	15.207(a) Pass		Under limit 12.38 dB at 0.510 MHz
3.7	15.203 & 15.247(b)	N/A	Antenna Requirement	N/A	Pass	-

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1 General Description

1.1 Applicant

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.2 Manufacturer

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	Smartphone
Brand Name	BLU
Model Name	LIFE XL L0050UU
FCC ID	YHLBLULIFEXL
	GSM/GPRS/EGPRS/WCDMA/HSPA/ HSPA+(16QAM uplink is not supported)/LTE/
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0+EDR/Bluetooth v4.0 LE
IMEI Code	Conducted: 353919027415813/353919027515810 Conduction: 353919027415953/353919027515950 Radiation: 353919027415912/353919027515919
HW Version	V1.0
SW Version	BLU_L5263_V01_GENERIC
EUT Stage	Pre-Production

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

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1.4 Product Specification subjective to this standard

Product Specific	cation subjective to this standard
Tx/Rx Channel Frequency Range	802.11b/g/n : 2412 MHz ~ 2462 MHz
	802.11b : 17.42 dBm (0.0552 W)
Maximum (Peak) Output Power to	802.11g : 22.87 dBm (0.1936 W)
Antenna	802.11n HT20 : 21.91 dBm (0.1552 W)
	802.11n HT40 : 21.86 dBm (0.1535 W)
	802.11b : 12.50MHz
90% Occupied Bandwidth	802.11g : 18.50MHz
99% Occupied Bandwidth	802.11n HT20 : 19.35MHz
	802.11n HT40 : 36.60MHz
Antenna Type/Gain	802.11b/g/n: PIFA Antenna with gain 0.00 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,				
Test Site Location	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 (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				
Toot Site No.	Sporton Site No.	FCC/IC Registration No.			
Test Site No.	03CH01-SZ	831040/4086F			

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

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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 v03r03
- ANSI C63.10-2009
- IC RSS-247 Issue 1
- IC RSS-Gen Issue 4

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

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 (X 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
2400 2402 F MI I-	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)									
Po	wer vs. Chan	inel	Power vs. Data Rate							
Channel	Channel Frequency MHz) Data Rate 1Mbps		Channel 2Mbps		5.5Mbps	11Mbps				
CH 01	2412 MHz	16.89			17.39					
CH 06	2437 MHz	<mark>17.42</mark>	CH 06	17.38		17.41				
CH 11	2462 MHz	16.59								

	2.4GHz 802.11g RF Output Power (dBm)										
Power vs. Channel				Power vs. Data Rate							
Channel	Frequency (MHz)	Data Rate 6Mbps	Channel	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps	
CH 01	2412 MHz	22.42									
CH 06	2437 MHz	<mark>22.87</mark>	CH 06	22.62	22.72	22.66	22.68	22.64	22.67	22.62	
CH 11	2462 MHz	21.93									

	2.4GHz 802.11n HT20 RF Output Power (dBm)										
Power vs. Channel				Power vs. MCS Index							
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
CH 01	2412 MHz	21.58									
CH 06	2437 MHz	<mark>21.91</mark>	CH 06	21.85	21.83	21.80	21.85	21.83	21.82	21.84	
CH 11	2462 MHz	21.24									

	2.4GHz 802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs. MCS Index								
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
CH 03	2422 MHz	20.14									
CH 06	2437 MHz	21.53	CH 09	21.66	21.52	21.56	21.58	21.51	21.53	21.50	
CH 09	2452 MHz	<mark>21.86</mark>									

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2.3 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

<2.4GHz>

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

Test Cases			
AC Conducted	Mode 1:		
Emission		from Adapter) + SIM 1	

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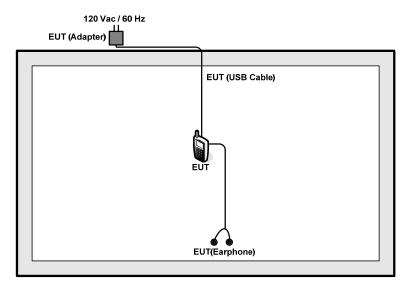
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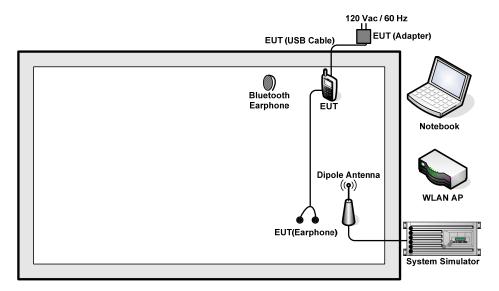
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2.4 Connection Diagram of Test System

<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
3.	Notebook	Lenovo	E540	FCC DoC		shielded cable DC O/P 1.8 m unshielded AC I/P cable1.2 m
4.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A

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2.6 EUT Operation Test Setup

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

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

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 5.0 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 5.0 + 10 = 15.0 (dB)

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% 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 v03r03.
- 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. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1MHz and set the Video bandwidth (VBW) = 3MHz.
- 6. Measure and record the results in the test report.

3.1.4 Test Setup



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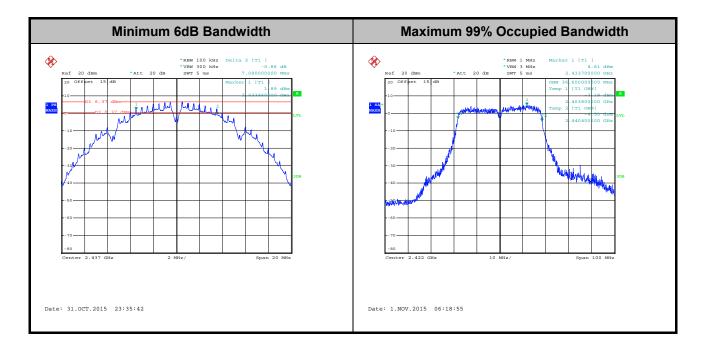
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3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A of this test report.



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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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 v03r03 section 9.1.2 PKPM1 Peak power meter method.
- 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

Please refer to Appendix A of this test report.

3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A of this test report.

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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 v03r03
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 6. Measure and record the results in the test report.

3.3.4 Test Setup

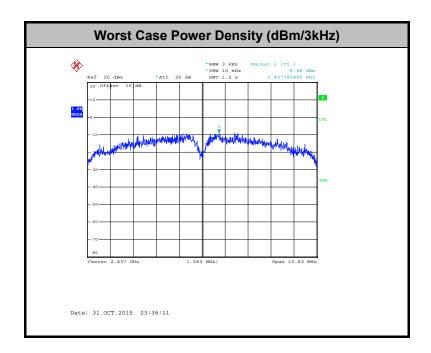


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3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A of this test report.



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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 v03r03.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



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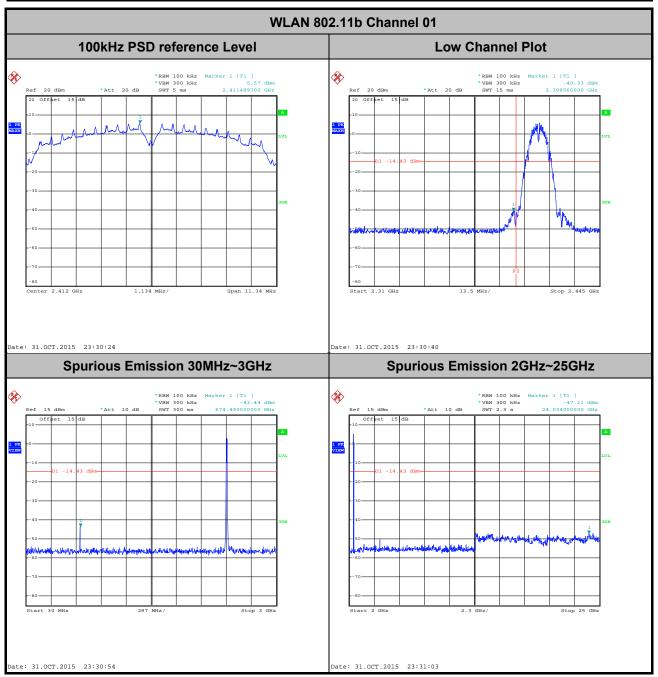
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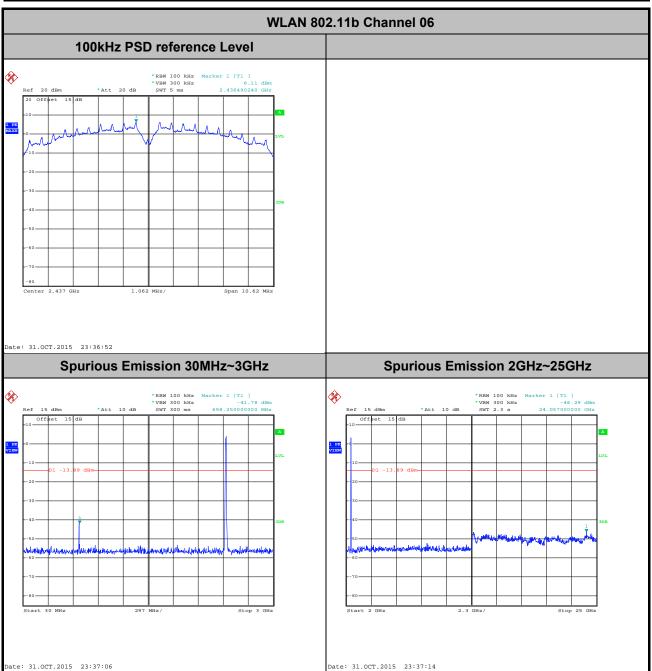
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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



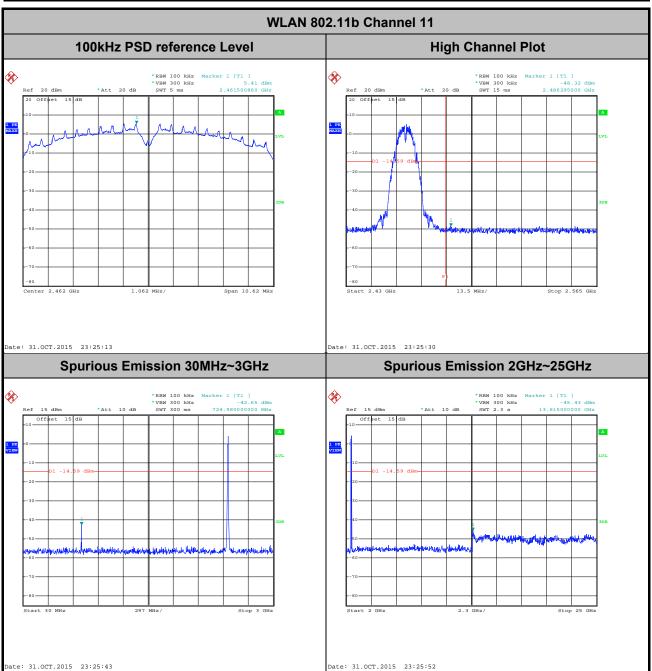
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Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Bruce Huang



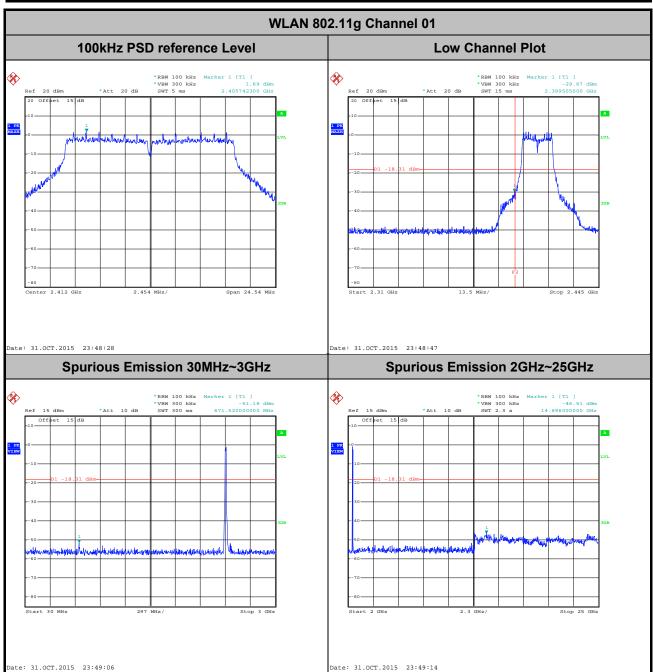
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Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Bruce Huang



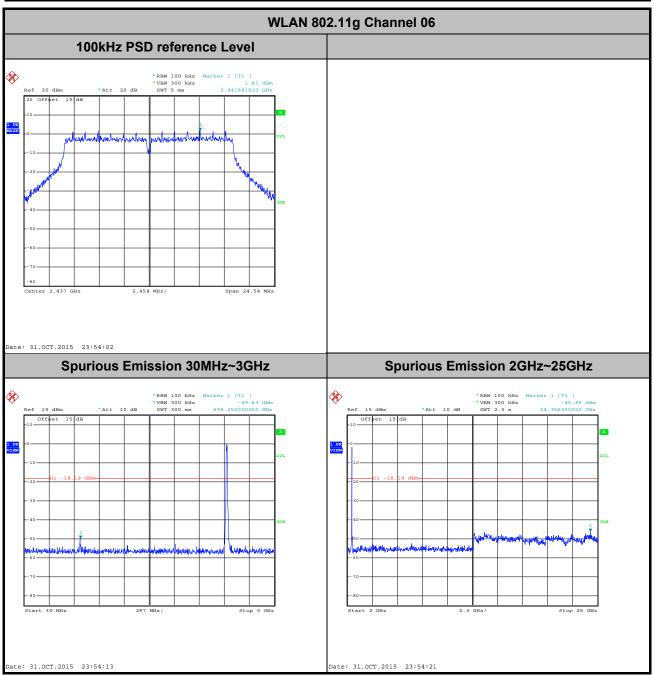
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Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Bruce Huang



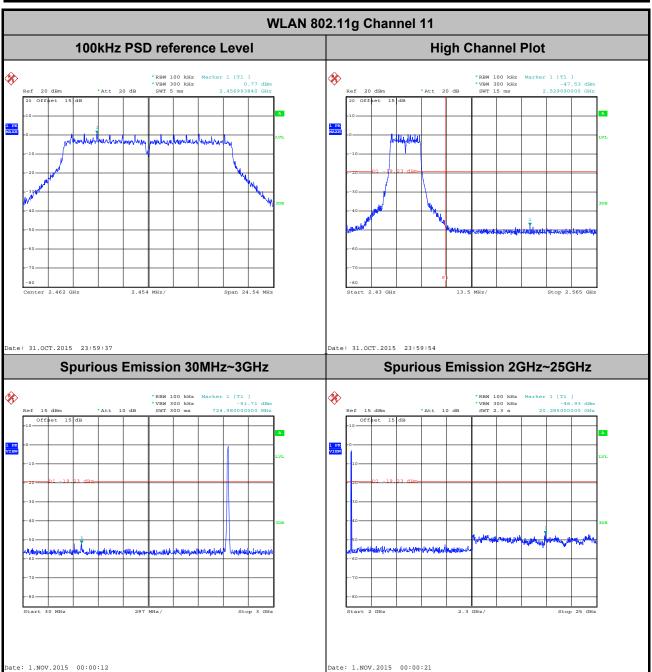
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Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Bruce Huang



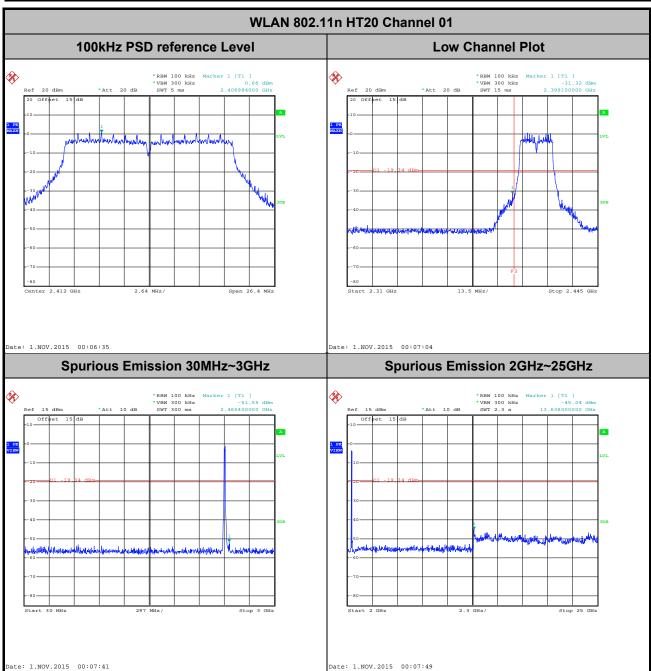
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Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Bruce Huang



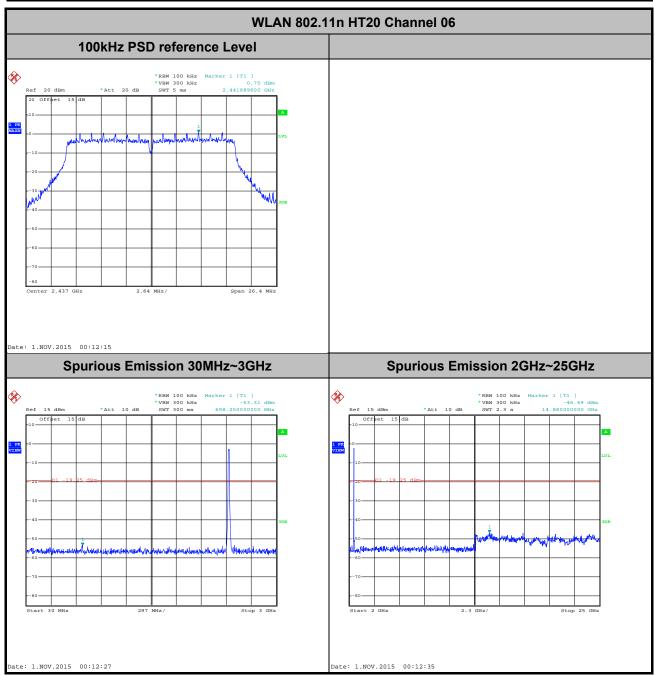
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Bruce Huang



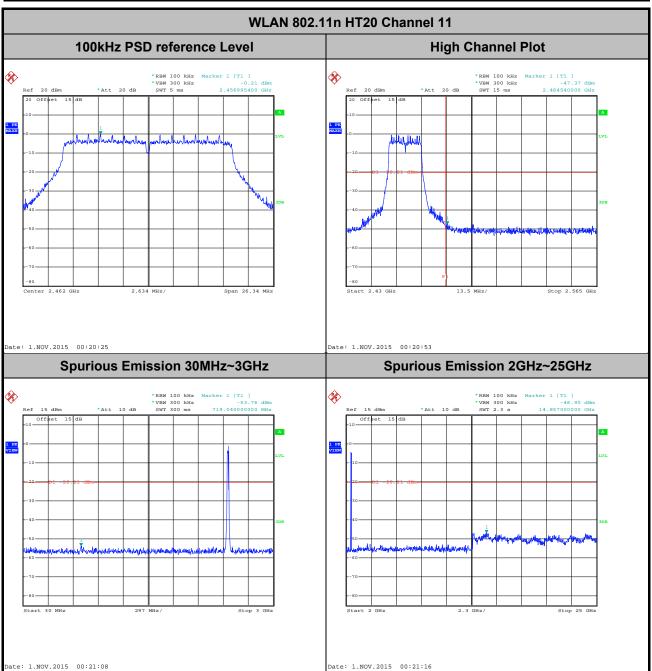
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Bruce Huang



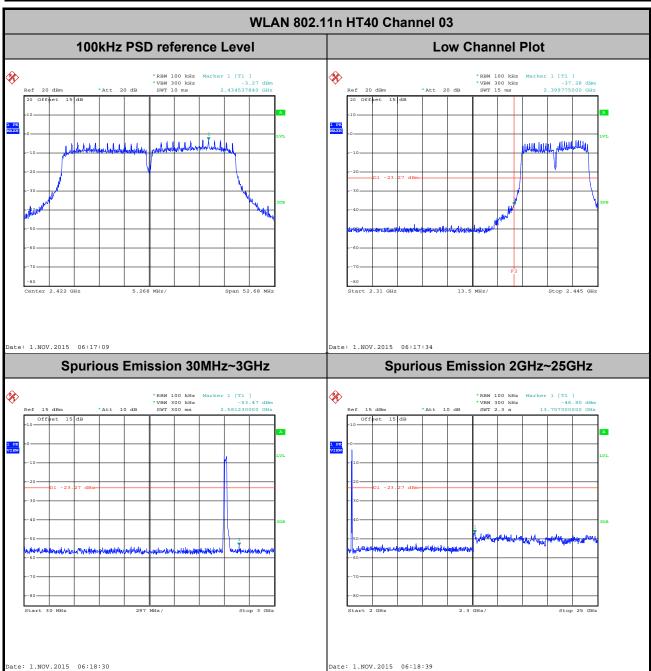
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Bruce Huang



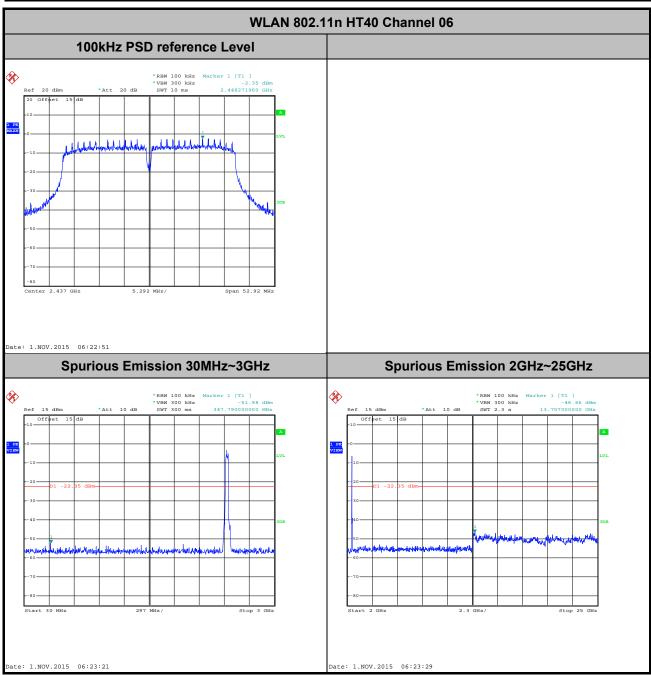
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Test Mode :	802.11n HT40	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	03	Test Engineer :	Bruce Huang



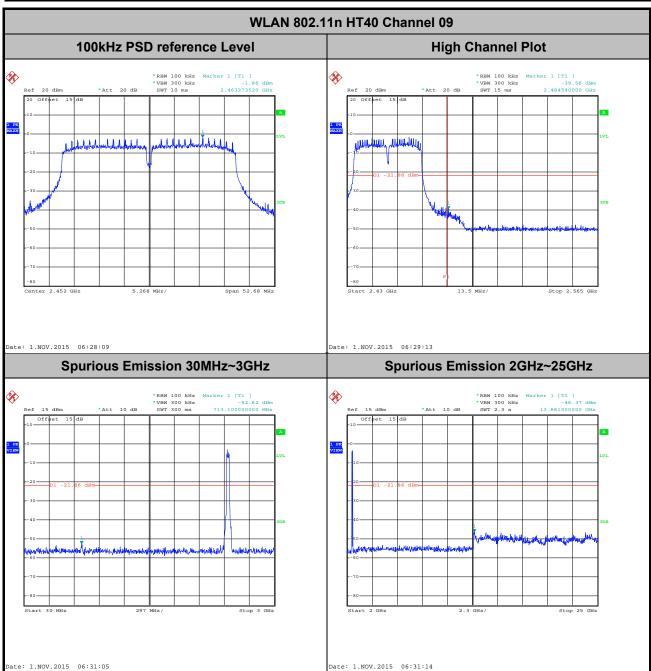
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Test Mode :	802.11n HT40	Temperature :	24~26°ℂ
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Bruce Huang



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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 :	Bruce Huang



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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 v03r03.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.

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- 3. The EUT was placed on a turntable with 0.8 meter 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	97.63	8.25	0.12	300Hz
802.11g	87.24	1.37	0.73	1kHz
2.4GHz 802.11n HT20	86.56	1.28	0.78	1kHz
2.4GHz 802.11n HT40	75.54	0.63	1.59	3kHz

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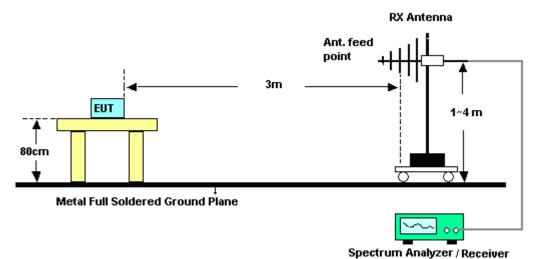
FCC ID: YHLBLULIFEXL

3.5.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz

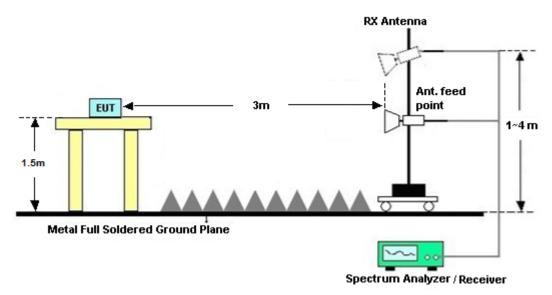


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For radiated emissions above 1GHz



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 B.

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

Please refer to Appendix B.

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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 (dBμV)					
(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.

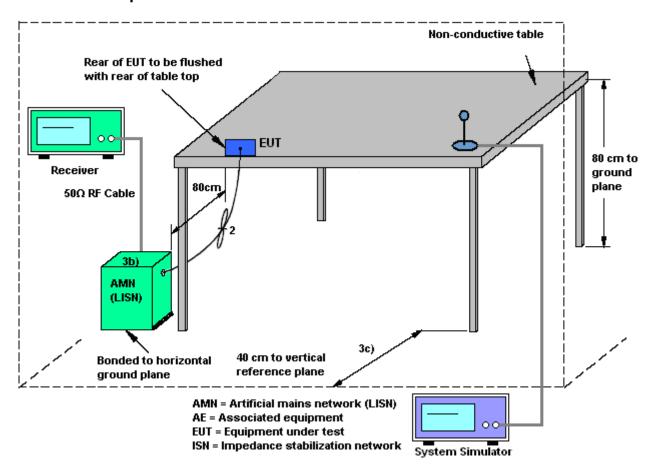
3.6.3 Test Procedures

- 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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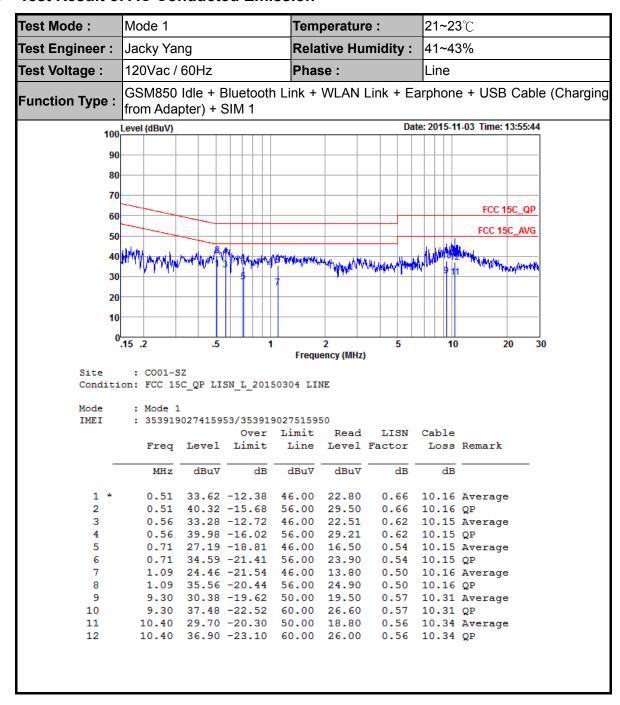


3.6.4 Test Setup



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3.6.5 Test Result of AC Conducted Emission

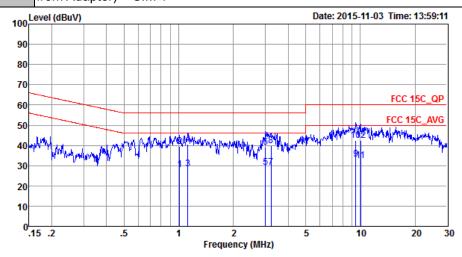


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Test Mode :	Mode 1	Temperature :	21~23℃						
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%						
Test Voltage :	120Vac / 60Hz	Phase :	Neutral						
Function Type:	GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable (Charging								

Function Type: GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable (Charging from Adapter) + SIM 1



Site : CO01-SZ

Condition: FCC 15C_QP LISN_N_20150304 NEUTRAL

Mode : Mode 1

IMEI : 353919027415953/353919027515950

	. 000511	, o z , 1 z o s	00,00051.	002,0103	-			
			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
_	MHz	dBuV	dB	dBu∇	dBu∇	dB	dB	
1	1.01	28.21	-17.79	46.00	17.50	0.56	10.15	Average
2	1.01	39.61	-16.39	56.00	28.90	0.56	10.15	QP
3	1.12	28.42	-17.58	46.00	17.70	0.56	10.16	Average
4 *	1.12	40.72	-15.28	56.00	30.00	0.56	10.16	QP
5	3.01	29.02	-16.98	46.00	18.20	0.61	10.21	Average
6	3.01	39.12	-16.88	56.00	28.30	0.61	10.21	QP
7	3.22	29.23	-16.77	46.00	18.40	0.61	10.22	Average
8	3.22	39.73	-16.27	56.00	28.90	0.61	10.22	QP
9	9.45	33.31	-16.69	50.00	22.30	0.70	10.31	Average
10	9.45	42.51	-17.49	60.00	31.50	0.70	10.31	QP
11	10.02	32.62	-17.38	50.00	21.60	0.70	10.32	Average
12	10.02	42.42	-17.58	60.00	31.40	0.70	10.32	QP

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3.7 Antenna Requirements

3.7.1 **Standard Applicable**

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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	FSP30	101400	9kHz~30GHz	Jan. 28, 2015	Oct. 31, 2015~ Nov. 01, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1207253	30MHz~40GHz	Jan. 28, 2015	Oct. 31, 2015~ Nov. 01, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Jan. 28, 2015	Oct. 31, 2015~ Nov. 01, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY522601 85	20Hz~26.5GHz	May 26, 2015	Nov. 20, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	KEYSIGHT	N9010A	MY551502 13	10Hz~44GHz;M ax 30dBm	Jun. 07, 2015	Nov. 20, 2015	Jun. 06, 2016	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 06, 2015	Nov. 20, 2015	May 05, 2016	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz-2GHz	Oct. 17, 2015	Nov. 20, 2015	Oct. 16, 2016	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 17, 2015	Nov. 20, 2015	Oct. 16, 2016	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Aug.19, 2015	Nov. 20, 2015	Aug. 18, 2016	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Nov. 20, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 05, 2015	Nov. 20, 2015	May 04, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY395013 02	500MHz~26.5G Hz	Jan. 28, 2015	Nov. 20, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001 985	N/A	NCR	Nov. 20, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 20, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 20, 2015	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan 28, 2015	Nov. 03, 2015	Jan 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Nov. 03, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Nov. 03, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Aug. 07, 2015	Nov. 03, 2015	Aug. 06, 2016	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 20, 2015	Nov. 03, 2015	Oct. 19, 2016	Conduction (CO01-SZ)

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5 Uncertainty of Evaluation

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	4.8 dB
Confidence of 95% (U = 2Uc(y))	4.0 UD

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Appendix A. Conducted Test Results

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A1 - DTS Part

Test Engineer:	Bruce Huang	Temperature:	24~26	С
Test Date:	2015/10/31 - 2015/11/01	Relative Humidity:	50~53	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

	2.4GHz Band											
Mod.	Data Rate	Nтх СН.		H. Freq. Occupied BW (MHz) 6dB BW (MHz)		6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail				
11b	1Mbps	1	1	2412	12.50	7.56	0.50	Pass				
11b	1Mbps	1	6	2437	12.30	7.08	0.50	Pass				
11b	1Mbps	1	11	2462	12.15	7.08	0.50	Pass				
11g	6Mbps	1	1	2412	18.50	16.36	0.50	Pass				
11g	6Mbps	1	6	2437	18.45	16.36	0.50	Pass				
11g	6Mbps	1	11	2462	18.40	16.36	0.50	Pass				
HT20	MCS0	1	1	2412	19.20	17.60	0.50	Pass				
HT20	MCS0	1	6	2437	19.35	17.60	0.50	Pass				
HT20	MCS0	1	11	2462	19.20	17.56	0.50	Pass				
HT40	MCS0	1	3	2422	36.60	35.12	0.50	Pass				
HT40	MCS0	1	6	2437	36.50	35.28	0.50	Pass				
HT40	MCS0	1	9	2452	36.50	35.12	0.50	Pass				

TEST RESULTS DATA Peak Power Table

	2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail			
11b	1Mbps	1	1	2412	16.89	30.00	0.00	16.89	36.00	Pass			
11b	1Mbps	1	6	2437	17.42	30.00	0.00	17.42	36.00	Pass			
11b	1Mbps	1	11	2462	16.59	30.00	0.00	16.59	36.00	Pass			
11g	6Mbps	1	1	2412	22.42	30.00	0.00	22.42	36.00	Pass			
11g	6Mbps	1	6	2437	22.87	30.00	0.00	22.87	36.00	Pass			
11g	6Mbps	1	11	2462	21.93	30.00	0.00	21.93	36.00	Pass			
HT20	MCS0	1	1	2412	21.58	30.00	0.00	21.58	36.00	Pass			
HT20	MCS0	1	6	2437	21.91	30.00	0.00	21.91	36.00	Pass			
HT20	MCS0	1	11	2462	21.24	30.00	0.00	21.24	36.00	Pass			
HT40	MCS0	1	3	2422	20.14	30.00	0.00	20.14	36.00	Pass			
HT40	MCS0	1	6	2437	21.53	30.00	0.00	21.53	36.00	Pass			
HT40	MCS0	1	9	2452	21.86	30.00	0.00	21.86	36.00	Pass			

TEST RESULTS DATA Average Power Table (Reporting Only)

	2.4GHz Band											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)						
11b	1Mbps	1	1	2412	0.10	13.81						
11b	1Mbps	1	6	2437	0.10	14.26						
11b	1Mbps	1	11	2462	0.10	13.32						
11g	6Mbps	1	1	2412	0.59	13.26						
11g	6Mbps	1	6	2437	0.59	13.41						
11g	6Mbps	1	11	2462	0.59	12.45						
HT20	MCS0	1	1	2412	0.63	12.22						
HT20	MCS0	1	6	2437	0.63	12.48						
HT20	MCS0	1	11	2462	0.63	11.50						
HT40	MCS0	1	3	2422	1.22	9.65						
HT40	MCS0	1	6	2437	1.22	10.74						
HT40	MCS0	1	9	2452	1.22	11.24						

TEST RESULTS DATA Peak Power Density

2.4GHz Band											
Mod.	Data Rate NTX CH.		CH.	Freq. (MHz) Peak PSD (dBm /3kHz)		DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail			
11b	1Mbps	1	1	2412	-8.92	0.00	8.00	Pass			
11b	1Mbps	1	6	2437	-8.48	0.00	8.00	Pass			
11b	1Mbps	1	11	2462	-9.54	0.00	8.00	Pass			
11g	6Mbps	1	1	2412	-11.94	0.00	8.00	Pass			
11g	6Mbps	1	6	2437	-11.21	0.00	8.00	Pass			
11g	6Mbps	1	11	2462	-13.60	0.00	8.00	Pass			
HT20	MCS0	1	1	2412	-13.75	0.00	8.00	Pass			
HT20	MCS0	1	6	2437	-13.69	0.00	8.00	Pass			
HT20	MCS0	1	11	2462	-14.64	0.00	8.00	Pass			
HT40	MCS0	1	3	2422	-18.23	0.00	8.00	Pass			
HT40	MCS0	1	6	2437	-16.12	0.00	8.00	Pass			
HT40	MCS0	1	9	2452	-15.48	0.00	8.00	Pass			

Appendix B. Radiated Spurious Emission

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

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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2377.95	50.16	-23.84	74	53.2	27.19	4.79	35.02	168	276	Р	Н
802.11b CH 01 2412MHz		2389.47	39.78	-14.22	54	42.76	27.25	4.79	35.02	168	276	Α	Н
	*	2412	101.68	-	-	104.55	27.31	4.82	35	168	276	Р	Н
	*	2412	99.1	-	-	101.97	27.31	4.82	35	168	276	Α	Н
		2355.45	50.02	-23.98	74	53.2	27.13	4.74	35.05	150	249	Р	V
241211112		2380.65	39.66	-14.34	54	42.7	27.19	4.79	35.02	150	249	Α	V
	*	2412	95.82	-	-	98.69	27.31	4.82	35	150	249	Р	V
	*	2412	93.18	-	-	96.05	27.31	4.82	35	150	249	Α	V
		2348.7	50.71	-23.29	74	53.95	27.07	4.74	35.05	158	310	Р	Н
		2378.58	39.44	-14.56	54	42.48	27.19	4.79	35.02	158	310	Α	Н
	*	2437	103.9	-	-	106.63	27.42	4.82	34.97	158	310	Р	Н
	*	2437	101.38	-	-	104.11	27.42	4.82	34.97	158	310	Α	Н
		2484.76	51.75	-22.25	74	54.28	27.54	4.85	34.92	158	310	Р	Н
802.11b		2486.68	40.35	-13.65	54	42.88	27.54	4.85	34.92	158	310	Α	Н
CH 06 2437MHz		2384.7	50.72	-23.28	74	53.76	27.19	4.79	35.02	250	287	Р	٧
2437 WII 12		2380.74	39.51	-14.49	54	42.55	27.19	4.79	35.02	250	287	Α	V
	*	2437	99.69	-	-	102.42	27.42	4.82	34.97	250	287	Р	V
	*	2437	97.18	-	-	99.91	27.42	4.82	34.97	250	287	Α	V
		2490.8	51.51	-22.49	74	53.94	27.6	4.89	34.92	250	287	Р	V
		2490.52	40.64	-13.36	54	43.07	27.6	4.89	34.92	250	287	Α	V

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	*	2462	103.16	1	-	105.78	27.48	4.85	34.95	180	252	Р	Н
	*	2462	100.57	-	-	103.19	27.48	4.85	34.95	180	252	Α	Н
		2489.68	51.06	-22.94	74	53.49	27.6	4.89	34.92	180	252	Р	Н
802.11b		2483.8	40.71	-13.29	54	43.24	27.54	4.85	34.92	180	252	Α	Н
CH 11 2462MHz	*	2462	97.63	-	ı	100.25	27.48	4.85	34.95	243	287	Р	V
2402WII IZ	*	2462	95.1	ı	ı	97.72	27.48	4.85	34.95	243	287	Α	V
		2489.32	52.5	-21.5	74	54.93	27.6	4.89	34.92	243	287	Р	٧
		2489.12	40.76	-13.24	54	43.19	27.6	4.89	34.92	243	287	Α	٧
	1 N	o other spurio	formed									•	

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Remark

1. No other spurious iound.
2. All results are PASS against Peak and Average limit line.

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		4824	41.76	-32.24	74	62.13	31.05	6.97	58.39	250	0	Р	Н
CH 01 2412MHz		4824	40.99	-33.01	74	61.36	31.05	6.97	58.39	250	0	Р	V
000 444		4874	40.16	-33.84	74	60.71	31.12	6.99	58.66	250	0	Р	Н
802.11b		7311	45.52	-28.48	74	59.96	35.96	8.22	58.62	150	0	Р	Н
CH 06 2437MHz		4874	38.74	-35.26	74	59.29	31.12	6.99	58.66	250	0	Р	V
243710112		7311	44.95	-29.05	74	59.39	35.96	8.22	58.62	150	0	Р	V
000 441-		4924	40.54	-33.46	74	60.87	31.19	7	58.52	250	0	Р	Н
802.11b CH 11		7386	45.17	-28.83	74	59.36	36.08	8.27	58.54	150	0	Р	Н
2462MHz		4924	41.19	-32.81	74	61.52	31.19	7	58.52	250	0	Р	V
2-102141112		7386	46.19	-27.81	74	60.38	36.08	8.27	58.54	150	0	Р	V

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^{1.} No other spurious found.

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

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

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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2389.92	59.5	-14.5	74	62.46	27.25	4.79	35	227	256	Р	Н
		2389.9	46.64	-7.36	54	49.6	27.25	4.79	35	227	256	Α	Н
000 44 =	*	2412	100.72	ı	-	103.59	27.31	4.82	35	227	256	Р	Н
802.11g CH 01	*	2412	93.31	ı	-	96.18	27.31	4.82	35	227	256	Α	Н
2412MHz		2389.92	53.78	-20.22	74	56.74	27.25	4.79	35	156	293	Р	٧
2412111112		2389.9	42.98	-11.02	54	45.94	27.25	4.79	35	156	293	Α	٧
	*	2412	95.91	1	-	98.78	27.31	4.82	35	156	293	Р	٧
	*	2412	88.32	-	-	91.19	27.31	4.82	35	156	293	Α	V
		2379.66	50.83	-23.17	74	53.87	27.19	4.79	35.02	250	255	Р	Н
		2381.73	40.32	-13.68	54	43.36	27.19	4.79	35.02	250	255	Α	Η
	*	2437	104.03	-	-	106.76	27.42	4.82	34.97	250	255	Р	Н
	*	2437	96.61	-	-	99.34	27.42	4.82	34.97	250	255	Α	Н
		2488.36	52.09	-21.91	74	54.52	27.6	4.89	34.92	250	255	Р	Н
802.11g		2489.28	42.7	-11.3	54	45.13	27.6	4.89	34.92	250	255	Α	Н
CH 06 2437MHz		2364	50.52	-23.48	74	53.7	27.13	4.74	35.05	150	290	Р	٧
2437 WIFIZ		2378.58	40.18	-13.82	54	43.22	27.19	4.79	35.02	150	290	Α	٧
	*	2437	99.96	-	-	102.69	27.42	4.82	34.97	150	290	Р	V
	*	2437	92.32	-	-	95.05	27.42	4.82	34.97	150	290	Α	V
		2494.32	51.8	-22.2	74	54.21	27.6	4.89	34.9	150	290	Р	V
		2489.4	42.15	-11.85	54	44.58	27.6	4.89	34.92	150	290	Α	V

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	*	2462	102.43	-	-	105.05	27.48	4.85	34.95	243	256	Р	Н
	*	2462	94.15	-	-	96.77	27.48	4.85	34.95	243	256	Α	Н
		2483.72	64.3	-9.7	74	66.83	27.54	4.85	34.92	243	256	Р	Н
802.11g		2483.56	49.24	-4.76	54	51.77	27.54	4.85	34.92	243	256	Α	Н
CH 11 2462MHz	*	2462	98.04	-	ı	100.66	27.48	4.85	34.95	228	300	Р	٧
2402IVII IZ	*	2462	90.03	-	ı	92.65	27.48	4.85	34.95	228	300	Α	V
		2483.76	62.03	-11.97	74	64.56	27.54	4.85	34.92	228	300	Р	٧
		2483.56	45.92	-8.08	54	48.45	27.54	4.85	34.92	228	300	Α	٧
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Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g		4824	38.53	-35.47	74	58.9	31.05	6.97	58.39	250	0	Р	Н
CH 01 2412MHz		4824	38.04	-35.96	74	58.41	31.05	6.97	58.39	250	0	Р	V
		4874	37.57	-36.43	74	58.12	31.12	6.99	58.66	250	0	Р	Н
802.11g		7311	46.43	-27.57	74	60.87	35.96	8.22	58.62	150	0	Р	Н
CH 06 2437MHz		4874	39.42	-34.58	74	59.97	31.12	6.99	58.66	250	0	Р	٧
2457 WII 12		7311	45.59	-28.41	74	60.03	35.96	8.22	58.62	150	0	Р	V
000 44		4924	38.97	-35.03	74	59.3	31.19	7	58.52	250	0	Р	Н
802.11g		7386	45.2	-28.8	74	59.39	36.08	8.27	58.54	150	0	Р	Н
CH 11 2462MHz		4924	38.65	-35.35	74	58.98	31.19	7	58.52	250	0	Р	V
2702191112		7386	45.41	-28.59	74	59.6	36.08	8.27	58.54	150	0	Р	V

Remark

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^{1.} No other spurious found.

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

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

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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2389.92	60.21	-13.79	74	63.17	27.25	4.79	35	230	255	Р	Н
		2389.92	46.09	-7.91	54	49.05	27.25	4.79	35	230	255	Α	Н
802.11n	*	2412	99.61	-	-	102.48	27.31	4.82	35	230	255	Р	Н
HT20	*	2412	91.91	-	-	94.78	27.31	4.82	35	230	255	Α	Н
CH 01		2389.92	60.06	-13.94	74	63.02	27.25	4.79	35	153	291	Р	V
2412MHz		2389.92	43.46	-10.54	54	46.42	27.25	4.79	35	153	291	Α	V
	*	2412	95.54	-	1	98.41	27.31	4.82	35	153	291	Р	V
	*	2412	87.35	-	-	90.22	27.31	4.82	35	153	291	Α	V
		2368.95	50.42	-23.58	74	53.46	27.19	4.79	35.02	250	256	Р	Н
		2386.05	40.06	-13.94	54	43.04	27.25	4.79	35.02	250	256	Α	Н
	*	2437	102.82	-	-	105.55	27.42	4.82	34.97	250	256	Р	Н
	*	2437	95.42	-	1	98.15	27.42	4.82	34.97	250	256	Α	Н
802.11n		2488.52	51.47	-22.53	74	53.9	27.6	4.89	34.92	250	256	Р	Н
HT20		2488.96	42.82	-11.18	54	45.25	27.6	4.89	34.92	250	256	Α	Н
CH 06		2369.67	50.43	-23.57	74	53.47	27.19	4.79	35.02	150	293	Р	V
2437MHz		2389.11	39.98	-14.02	54	42.96	27.25	4.79	35.02	150	293	Α	V
	*	2437	98.17	-	-	100.9	27.42	4.82	34.97	150	293	Р	V
	*	2437	90.84	-	-	93.57	27.42	4.82	34.97	150	293	Α	V
		2491.64	52.13	-21.87	74	54.56	27.6	4.89	34.92	150	293	Р	V
		2488.88	41.75	-12.25	54	44.18	27.6	4.89	34.92	150	293	Α	V

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	*	2462	100.78	-	-	103.4	27.48	4.85	34.95	243	256	Р	Н
	*	2462	93.19	-	-	95.81	27.48	4.85	34.95	243	256	Α	Н
802.11n		2483.6	65.52	-8.48	74	68.05	27.54	4.85	34.92	243	256	Р	Н
HT20		2483.52	48	-6	54	50.53	27.54	4.85	34.92	243	256	Α	Н
CH 11	*	2462	96.8	-	1	99.42	27.48	4.85	34.95	226	305	Р	V
2462MHz	*	2462	88.87	-	-	91.49	27.48	4.85	34.95	226	305	Α	V
		2483.56	60.99	-13.01	74	63.52	27.54	4.85	34.92	226	305	Р	V
		2483.64	45.64	-8.36	54	48.17	27.54	4.85	34.92	226	305	Α	V

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No other spurious found.

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

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		4824	39.03	-34.97	74	59.4	31.05	6.97	58.39	250	0	P	Н
HT20		4024	00.00	04.07	, -	00.4	01.00	0.07	00.00	200		'	''
CH 01		4004	20.00	25.74	74	50.00	24.05	0.07	50.00	050	_)	
2412MHz		4824	38.26	-35.74	74	58.63	31.05	6.97	58.39	250	0	Р	V
802.11n		4874	37.83	-36.17	74	58.38	31.12	6.99	58.66	250	0	Р	Н
HT20		7311	45.58	-28.42	74	60.02	35.96	8.22	58.62	150	0	Р	Н
CH 06		4874	37.48	-36.52	74	58.03	31.12	6.99	58.66	250	0	Р	V
2437MHz		7311	45.73	-28.27	74	60.17	35.96	8.22	58.62	150	0	Р	V
802.11n		4924	38.68	-35.32	74	59.01	31.19	7	58.52	250	0	Р	Н
HT20		7386	45.85	-28.15	74	60.04	36.08	8.27	58.54	150	0	Р	Н
CH 11		4924	39.25	-34.75	74	59.58	31.19	7	58.52	250	0	Р	V
2462MHz		7386	45.89	-28.11	74	60.08	36.08	8.27	58.54	150	0	Р	V
		I.	1	1		ı	1		1				

Remark

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No other spurious found.

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

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

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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2389.93	53.49	-20.51	74	56.45	27.25	4.79	35	162	227	Р	Н
		2389.96	43.62	-10.38	54	46.58	27.25	4.79	35	162	227	Α	Н
802.11n	*	2422	98.73	ı	-	101.51	27.37	4.82	34.97	162	227	Р	Н
HT40	*	2422	90.58	ı	1	93.36	27.37	4.82	34.97	162	227	Α	Н
CH 03		2375.7	49.77	-24.23	74	52.81	27.19	4.79	35.02	245	206	Р	V
2422MHz		2389.65	40.6	-13.4	54	43.58	27.25	4.79	35.02	245	206	Α	V
	*	2422	91.35	-	-	94.13	27.37	4.82	34.97	245	206	Р	V
	*	2422	83.45	-	-	86.23	27.37	4.82	34.97	245	206	Α	V
		2367.24	50.33	-23.67	74	53.48	27.13	4.74	35.02	161	227	Р	Н
		2389.91	40.39	-13.61	54	43.35	27.25	4.79	35	161	227	Α	Н
	*	2437	97.96	-	-	100.69	27.42	4.82	34.97	161	227	Р	Н
	*	2437	90.04	-	-	92.77	27.42	4.82	34.97	161	227	Α	Н
802.11n		2484.8	51.82	-22.18	74	54.35	27.54	4.85	34.92	161	227	Р	Н
HT40		2484.44	42.09	-11.91	54	44.62	27.54	4.85	34.92	161	227	Α	Н
CH 06		2334.03	49.87	-24.13	74	53.19	27.01	4.74	35.07	241	282	Р	V
2437MHz		2380.65	40.33	-13.67	54	43.37	27.19	4.79	35.02	241	282	Α	٧
	*	2437	91.45	-	-	94.23	27.37	4.82	34.97	241	282	Р	V
	*	2437	83.31	-	-	86.09	27.37	4.82	34.97	241	282	Α	٧
		2495.24	51.35	-22.65	74	53.76	27.6	4.89	34.9	241	282	Р	٧
		2496.44	41.33	-12.67	54	43.74	27.6	4.89	34.9	241	282	Α	V

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	*	2452	99.71	-	-	102.39	27.42	4.85	34.95	245	257	Р	Н
	*	2452	91.33	-	-	94.01	27.42	4.85	34.95	245	257	Α	Н
802.11n		2485.12	64.8	-9.2	74	67.33	27.54	4.85	34.92	245	257	Р	Н
HT40		2484.28	50.4	-3.6	54	52.93	27.54	4.85	34.92	245	257	Α	Н
CH 09	*	2452	94.22	-	-	96.9	27.42	4.85	34.95	162	295	Р	٧
2452MHz	*	2452	87.02	-	-	89.7	27.42	4.85	34.95	162	295	Α	٧
		2484.04	61.18	-12.82	74	63.71	27.54	4.85	34.92	162	295	Р	V
		2484.56	47.05	-6.95	54	49.58	27.54	4.85	34.92	162	295	Α	V

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No other spurious found.

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

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

						•		-					
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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		4844	39.25	-34.75	74	59.69	31.07	6.97	58.48	250	0	Р	Н
HT40		7266	45.11	-28.89	74	59.54	35.91	8.19	58.53	150	0	Р	Н
CH 03		4844	36.82	-37.18	74	57.26	31.07	6.97	58.48	250	0	Р	٧
2422MHz		7266	45.84	-28.16	74	60.27	35.91	8.19	58.53	150	0	Р	٧
802.11n		4874	37.64	-36.36	74	58.19	31.12	6.99	58.66	250	0	Р	Н
HT40		7311	44.71	-29.29	74	59.15	35.96	8.22	58.62	150	0	Р	Н
CH 06		4874	39	-35	74	59.55	31.12	6.99	58.66	250	0	Р	٧
2437MHz		7311	45.75	-28.25	74	60.19	35.96	8.22	58.62	150	0	Р	٧
802.11n		4904	38.86	-35.14	74	59.33	31.17	7	58.64	250	0	Р	Н
HT40		7356	45.27	-28.73	74	59.56	36.03	8.25	58.57	150	0	Р	Н
CH 09		4904	39.34	-34.66	74	59.81	31.17	7	58.64	250	0	Р	٧
2452MHz		7356	45.57	-28.43	74	59.86	36.03	8.25	58.57	150	0	Р	٧

Remark

1. No other spurious found.

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

15C Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

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		(MHz)	(dBµV/m)	(dB)	$(dB\mu V/m)$	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		40.67	23.96	-16.04	40	43.81	12.54	1	33.39	-	-	Р	Н
		103.72	20.47	-23.03	43.5	40.23	12.21	1.38	33.35	ı	-	Р	Н
		152.22	16.21	-27.29	43.5	36.77	11.15	1.53	33.24	ı	-	Р	Н
		230.79	14.77	-31.23	46	34.84	11.25	1.8	33.12	ı	-	Р	Н
2.4GHz		307.42	24.67	-21.33	46	41.74	14.01	1.94	33.02	-	-	Р	Н
802.11n		888.45	39.61	-6.39	46	46.87	21	3.03	31.29	100	360	Р	Н
HT40		42.61	36.66	-3.34	40	57.24	11.81	1	33.39	100	0	Р	V
LF		102.75	22.67	-20.83	43.5	42.41	12.24	1.38	33.36	-	-	Р	V
		355.92	18.37	-27.63	46	33.9	15.32	2.04	32.89	-	-	Р	V
		460.68	19.27	-26.73	46	32.21	17.35	2.31	32.6	-	-	Р	٧
		705.12	34.56	-11.44	46	44.16	19.53	2.75	31.88	-	-	Р	V
		710.94	40.55	-5.45	46	50.09	19.57	2.75	31.86	-	-	Р	٧
Remark	1. No	o other spurio	us found.										

Remark

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^{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:

- 1. 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(dBμV/m) Limit Line(dBμV/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)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. 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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