



JAPAN Radio Test Report

WLAN 5GHz Band

APPLICANT : Lenovo(Shanghai) Electronics Technology Co., Ltd.

PRODUCT NAME : Portable Tablet Computer

BRAND NAME : Lenovo

MODEL NAME : Lenovo TB-X505F

TYPE EMISSIONS : 17M2G1D/D1D (OFDM_W52_802.11a) ;
18M3G1D/D1D (OFDM_W52_802.11n-HT20) ;
36M0G1D/D1D (OFDM_W52_802.11n-HT40) ;
74M4G1D/D1D (OFDM_W52_802.11ac-VHT80) ;
16M9G1D/D1D (OFDM_W53_802.11a) ;
18M0G1D/D1D (OFDM_W53_802.11n-HT20) ;
36M2G1D/D1D (OFDM_W53_802.11n-HT40) ;
75M0G1D/D1D (OFDM_W53_802.11ac-VHT80) ;
16M9G1D/D1D (OFDM_W56_802.11a) ;
18M2G1D/D1D (OFDM_W56_802.11n-HT20) ;
36M2G1D/D1D (OFDM_W56_802.11n-HT40) ;
75M0G1D/D1D (OFDM_W56_802.11ac-VHT80)

DECLARATION : 2.60 mW/MHz (OFDM_W52_802.11a) ;
OUTPUT POWER : 2.80 mW/MHz (OFDM_W52_802.11n-HT20) ;
1.30 mW/MHz (OFDM_W52_802.11n-HT40) ;
0.70 mW/MHz (OFDM_W52_802.11ac-VHT80) ;
2.80 mW/MHz (OFDM_W53_802.11a) ;
2.80 mW/MHz (OFDM_W53_802.11n-HT20) ;
1.40 mW/MHz (OFDM_W53_802.11n-HT40) ;
0.70 mW/MHz (OFDM_W53_802.11ac-VHT80) ;
2.70 mW/MHz (OFDM_W56_802.11a) ;
2.70 mW/MHz (OFDM_W56_802.11n-HT20) ;



**1.40 mW/MHz (OFDM_W56_802.11n-HT40) ;
0.70 mW/MHz (OFDM_W56_802.11ac-VHT80)**

STANDARD : Article 49-20, the relevant articles and MIC Notice No. 48 of the Ordinance Regulating Radio Equipment.

TEST PROCEDURE : MIC Notice No.88 Appendix No.45

The product sample received on Jan. 26, 2019 and completely tested on Apr. 01, 2019. We, Sporton International Inc. (KunShan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in MIC Notice No.88 Appendix No.45 and shown to be compliant with the applicable technical standards. Article 2 Paragraph 1 Item 19-3 and Item 19-3-2 of the Certificate Ordinance of the Radio Law indicates the classification of the specified radio equipment.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (KunShan), the test report shall not be reproduced except in full.

James Huang

Prepared by: James Huang / Manager

Jones Tsai

Approved by: Jones Tsai / Manager



Sporton International Inc. (KunShan)

No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China

Sporton International Inc. (KunShan)

TEL : 86-0512-5790-0158

FAX : 86-0512-5790-0958

Page Number : 2 of 35

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Report Version : Rev. 01

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
JR912606C	Rev. 01	Initial issue of report	Apr. 12, 2019

**SUMMARY OF TEST RESULT**

Report Section	Description	Result
3.1	Frequency Tolerance	Pass
3.2	Occupied Bandwidth	Pass
3.3	RF Output Power / Tolerance	Pass
3.4	EIRP Antenna Power	Pass
3.5	Unwanted Emission Strength	Pass
3.6	Out-Band Leakage Power	Pass
3.7	Adjacent Channel Leakage Power	Pass
3.8	Secondarily Emitted Radio Wave Strength	Pass
3.9	Carrier Sensing Function	Pass
3.10	Link be controlled by Master device	Pass
3.11	Burst Length of Transmitted Signals	Pass
3.12	Interference Prevention Capability	Pass
3.13	Construction Protection Confirmation	Pass

Note 1: MIC Ordinance Regulating Radio Equipment Section 3.17 of Article 49.20.



1 General Description

1.1 Applicant

Lenovo(Shanghai) Electronics Technology Co., Ltd.

NO.68 BUILDING, 199 FENJU RD, China (Shanghai) Pilot Free Trade Zone, 200131, CHINA

1.2 Manufacturer

Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong

1.3 Feature of Equipment Under Test


Product Feature & Specification			
Product Name	Portable Tablet Computer		
Brand Name	Lenovo		
Model Name	Lenovo TB-X505F		
Tx/Rx Frequency Range	<input checked="" type="checkbox"/> 5150MHz ~ 5250MHz (W52 Band) <input checked="" type="checkbox"/> 5250MHz ~ 5350MHz (W53 Band) <input checked="" type="checkbox"/> 5470MHz ~ 5725MHz (W56 Band)		
WLAN Type of Modulation	<input type="checkbox"/> Direct Spreading (DS) <input checked="" type="checkbox"/> Orthogonal frequency-division multiplexing (OFDM) <input type="checkbox"/> Frequency Hopping (FH)		
RF Technology	<input checked="" type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11n-HT20 <input checked="" type="checkbox"/> 802.11n-HT40 <input checked="" type="checkbox"/> 802.11ac-VHT80 <input type="checkbox"/> 802.11ac-80+80MHz System <input checked="" type="checkbox"/> 802.11ac-VHT20 <input checked="" type="checkbox"/> 802.11ac-VHT40 <input type="checkbox"/> 802.11ac-VHT160		
Number of Channels		W52+W53 Band	W56 Band
	20MHz System	8	11
	40MHz System	4	5
	80MHz System	2	2
Channel Spacing	20MHz System	20MHz	
	40MHz System	40MHz	
	80MHz System	80MHz	



Declaration RF Output Power	2.60 mW/MHz (OFDM_W52_802.11a mode) 2.80 mW/MHz (OFDM_W52_802.11n-HT20 mode) 1.30 mW/MHz (OFDM_W52_802.11n-HT40 mode) 0.70 mW/MHz (OFDM_W52_802.11ac-VHT80 mode)	
	2.80 mW/MHz (OFDM_W53_802.11a mode) 2.80 mW/MHz (OFDM_W53_802.11n-HT20 mode) 1.40 mW/MHz (OFDM_W53_802.11n-HT40 mode) 0.70 mW/MHz (OFDM_W53_802.11ac-VHT80 mode)	
	2.70 mW/MHz (OFDM_W56_802.11a mode) 2.70 mW/MHz (OFDM_W56_802.11n-HT20 mode) 1.40 mW/MHz (OFDM_W56_802.11n-HT40 mode) 0.70 mW/MHz (OFDM_W56_802.11ac-VHT80 mode)	
Antenna Power (E.I.R.P)	5.580 dBm/MHz (OFDM_W52_802.11a mode) 5.902 dBm/MHz (OFDM_W52_802.11n-HT20 mode) 2.569 dBm/MHz (OFDM_W52_802.11n-HT40 mode) -0.119 dBm/MHz (OFDM_W52_802.11ac_VHT80 mode)	
	5.632 dBm/MHz (OFDM_W53_802.11a mode) 5.632 dBm/MHz (OFDM_W53_802.11n-HT20 mode) 2.621 dBm/MHz (OFDM_W53_802.11n-HT40 mode) -0.389 dBm/MHz (OFDM_W53_802.11ac_VHT80 mode)	
	5.704 dBm/MHz (OFDM_W56_802.11a mode) 5.704 dBm/MHz (OFDM_W56_802.11n-HT20 mode) 2.851 dBm/MHz (OFDM_W56_802.11n-HT40 mode) -0.159 dBm/MHz (OFDM_W56_802.11ac_VHT80 mode)	
Type of Modulation	<input checked="" type="checkbox"/> BPSK <input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM <input checked="" type="checkbox"/> 64QAM <input checked="" type="checkbox"/> 256QAM	
Power Source ^{NOTE}	<input checked="" type="checkbox"/> Commercial power	AC 100 ~ 240V
	<input checked="" type="checkbox"/> External Power Source	DC 5V, 2A
	<input checked="" type="checkbox"/> Lithium battery	DC 3.85V, 4850mAh
	<input type="checkbox"/> UM battery	DC 1.2V

NOTE: When EUT be operated at $\pm 10\%$ from the normal supply voltage, the supply voltage of RF part was varied within $\pm 1\%$. All test cases were done under the normal supply voltage.



Power Supply voltage 3.850 V dc (Nominal)	Power Supply voltage 4.235 Vdc (+10%)	Power Supply voltage 3.465 V dc (-10%)
1.92	1.92	1.92
Measurement point		
		

Antenna Information	
Brand Name : N/A	Model Name : N/A
Antenna Type : FPC	Antenna Gain : 1.43 dBi (W52) 1.16 dBi (W53) 1.39 dBi (W56)

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 Modification of EUT

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

1.5 Testing Site

Test Lab.	Sporton International Inc. (KunShan) Mobile Communications Laboratory
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu province, China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958
Test Site No.	Sporton Site No.: TH01-KS

Test Items	Uncertainty	Remark
Occupied Channel Bandwidth	± 101.1 kHz	Confidence 95%
RF output power, conducted	± 0.68 dB	Confidence 95%
Frequency Tolerance	± 101.1 kHz	Confidence 95%
Power density, conducted	± 0.46 dB	Confidence 95%
Temperature	± 0.8 °C	Confidence 95%
Humidity	± 3 %	Confidence 95%
Time	± 0.33 %	Confidence 95%

1.6 Applied Standards

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

- Article 49-20 and the relevant articles of the Ordinance Regulating Radio Equipment
- MIC Notice No. 48 to Article 49-20 of the Ordinance

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The measurement was implemented in accordance with MIC Notice No. 88 Appendix No. 45.



1.7 Ancillary Equipment List

None.



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Support Band	Channel	Frequency (MHz)	Support Band	Channel	Frequency (MHz)
W52	36	5180	W56	100	5500
	38 ¹	5190		102 ¹	5510
	40	5200		104	5520
	42 ²	5210		106 ²	5530
	44	5220		108	5540
	46 ¹	5230		110 ¹	5550
	48	5240		112	5560
W53	52	5260		116	5580
	54 ¹	5270		118 ¹	5590
	56	5280		120	5600
	58 ²	5290		122 ²	5610
	60	5300		124	5620
	62 ¹	5310		126 ¹	5630
	64	5320		128	5640
Note : 1. Only for Bandwidth = 40MHz 2. Only for Bandwidth = 80MHz				132	5660
				134 ¹	5670
				136	5680
				140	5700

2.2 EUT Operation Test Setup

During testing, RF test program provided by the customer was used to control the operating channel as well as the output power level.



3 Test Result

3.1 Frequency Tolerance Measurement

3.1.1 Limit

Item	Limits
Frequency Tolerance	$\leq 20\text{ppm}$

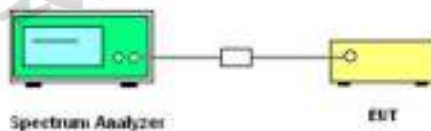
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

- Frequency accuracy of instrument shall be less than 10% of limits tolerance (2ppm).
- Two methods for the item
 - CW Tone method
 - Setting of SA is following as: RBW:1kHz / VBW:30kHz.
 - Maker Max. level to get measuring frequency f.
 - 10dB down method
 - Setting of SA is following as: RBW:100kHz / VBW: 100kHz / Trace: MaxHold
 - Display line Level = Max. level – 10dB to place two markers, highest(fH) and lowest(fL) frequency
 - Determine measuring frequency $f = (fH + fL) / 2$
- The frequency tolerance test case is directly measured using spectrum analyzer. Then the frequency error formula is $(f - f_c) / f_c \times 10^6$ ppm and the limit is less than $\pm 20\text{ppm}$.

3.1.4 Test Setup



3.1.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.1.6 Test Result of Frequency Tolerance

Please refer to Appendix B.



3.2 Occupied Bandwidth Measurement

3.2.1 Limit

Item	Support Band	Limits
Occupied Bandwidth	W52 / W53	$\leq 18\text{MHz}$ (Others, Bandwidth = 20MHz)
		$\leq 19\text{MHz}$ (OFDM, Bandwidth = 20MHz)
		$\leq 38\text{MHz}$ (OFDM, Bandwidth = 40MHz)
		$\leq 78\text{MHz}$ (OFDM, Bandwidth = 80MHz)
	W56	$\leq 19.7\text{MHz}$ (Others, Bandwidth = 20MHz)
		$\leq 38\text{MHz}$ (OFDM, Bandwidth = 40MHz)
		$\leq 78\text{MHz}$ (OFDM, Bandwidth = 80MHz)

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

- Setting of SA is following as: RBW: 300kHz / VBW: 300kHz / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
- EUT have transmitted each modulation signal and fixed channelize (For OFDM or Others Device). SA set to 99% of occupied bandwidth to measure occupied bandwidth.

3.2.4 Test Setup



3.2.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.2.6 Test Result of Occupied Bandwidth Measurement

Please refer to Appendix B.



3.3 RF Output Power / Tolerance

3.3.1 Limit

Item	Support Band	Limits
Output Power Density	W52	$\leq 10\text{mW}$ (Others,Bandwidth = 20MHz)
		$\leq 10\text{mW/MHz}$ (OFDM/DS, Bandwidth = 20MHz)
		$\leq 5\text{mW/MHz}$ (OFDM, Bandwidth = 40MHz)
		$\leq 2.5\text{mW/MHz}$ (OFDM, Bandwidth = 80MHz)
	W53	$\leq 10\text{mW}$ (Others,Bandwidth = 20MHz)
		$\leq 10\text{mW/MHz}$ (OFDM/DS, Bandwidth = 20MHz)
		$\leq 5\text{mW/MHz}$ (OFDM, Bandwidth = 40MHz)
		$\leq 2.5\text{mW/MHz}$ (OFDM, Bandwidth = 80MHz)
	W56	$\leq 10\text{mW}$ (Others,Bandwidth = 20MHz)
		$\leq 10\text{mW/MHz}$ (OFDM/DS, Bandwidth = 20MHz)
		$\leq 5\text{mW/MHz}$ (OFDM, Bandwidth = 40MHz)
		$\leq 2.5\text{mW/MHz}$ (OFDM, Bandwidth = 80MHz)
Output Power Error	W52 / W53	+20% ~ -80% (Base on manufacturer declare output power)
	W56	+50% ~ -50% (Base on manufacturer declare output power)



3.3.2 Measuring Instruments

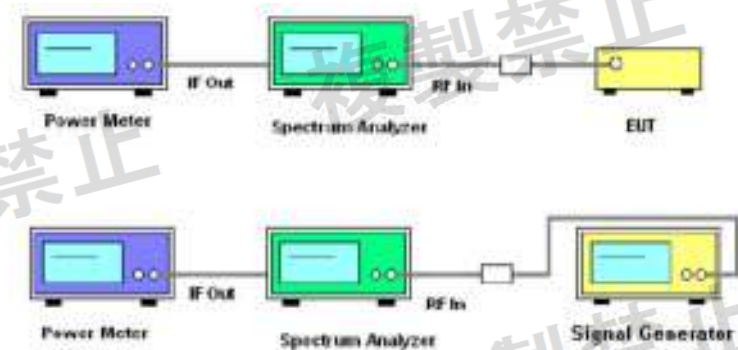
See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. A power meter is connected on the IF output port of the spectrum analyzer.
2. Adjust the spectrum analyzer to have the center frequency the same with the measured carrier. RBW=VBW=1MHz, detector mode is positive peak. Turn off the averaging function and use zero span.
3. The calibrating signal power shall be reduced to 0 dBm and it shall be verified that the power meter reading also reduces by 10 dB.
4. Connect the equipment to be measured. Using the following settings of the spectrum analyzer in combination with "max hold" function, find the frequency of highest power output in the power envelope: center frequency equal to operating frequency; RBW & VBW: 1 MHz; detector mode: positive peak; averaging: off; span: 3 times the spectrum width; amplitude: adjust for middle of the instrument's range. The frequency found shall be recorded.
5. Set the center frequency of the spectrum analyzer to the found frequency and switch to zero span. The power meter indicates the measured power density "E".
6. Remove the EUT and put the replacing standard signal generator (SSG). Set the standard signal generator (SSG) at same frequency and transmit on, then set SSG output power at P_t to give the equivalent output level of "E".
7. Calculate antenna power density by the formula below $PD = P_t + 10 \cdot \log(1/x)$.
x: The duty cycle of the EUT in continuously transmitting mode
 P_t : Output power of the SSG
8. Antenna Power Error is definition that actual measure antenna power tolerance between power range that base on manufacturer declare the conducted power density.



3.3.4 Test Setup



3.3.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.3.6 Test Result of RF Output Power / Tolerance

Please refer to Appendix B.



3.4 Transmission Antenna Gain (EIRP Antenna Power) Measurement

3.4.1 Limit

Item	Support Band	Limits
E.I.R.P	W52	$\leq 10\text{mW/MHz}$ (Bandwidth = 20MHz)
		$\leq 5\text{mW/MHz}$ (Bandwidth = 40MHz)
		$\leq 2.5\text{mW/MHz}$ (Bandwidth = 80MHz)
	W53	With TPC function
		$\leq 10\text{mW/MHz}$ (Bandwidth = 20MHz)
		$\leq 5\text{mW/MHz}$ (Bandwidth = 40MHz)
		$\leq 2.5\text{mW/MHz}$ (Bandwidth = 80MHz)
		Without TPC function
		$\leq 5\text{mW/MHz}$ (Bandwidth = 20MHz)
	W56	$\leq 2.5\text{mW/MHz}$ (Bandwidth = 40MHz)
		$\leq 1.25\text{mW/MHz}$ (Bandwidth = 80MHz)
		With TPC function
		$\leq 50\text{mW/MHz}$ (Bandwidth = 20MHz)
		$\leq 25\text{mW/MHz}$ (Bandwidth = 40MHz)
		$\leq 12.5\text{mW/MHz}$ (Bandwidth = 80MHz)
		Without TPC function
		$\leq 25\text{mW/MHz}$ (Bandwidth = 20MHz)
		$\leq 12.5\text{mW/MHz}$ (Bandwidth = 40MHz)
		$\leq 6.25\text{mW/MHz}$ (Bandwidth = 80MHz)



3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

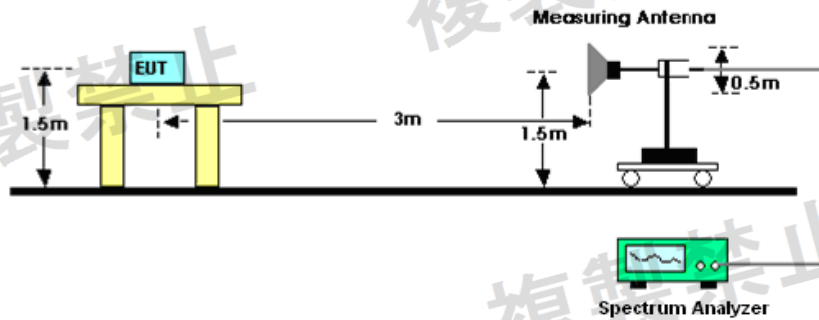
3.4.3 Test Procedures

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of the measuring antenna. The output level at the spectrum analyzer is read as "E".
3. Remove the EUT from the turn table and put the replacing antenna facing to measuring antenna at same height. Set the standard signal generator (SSG) at same frequency and transmit on then receive the signal.
4. Swing the replacing antenna give a maximum receiving level.
5. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of replacing antenna height and swing it to find the maximum receiving level.
6. Set SSG output power at P_t to give the equivalent output level of "E" or calculate P_t with SSG output which gives the nearest of "E" and difference ($\pm 1\text{dB}$). Record the P_t .
7. Calculate EIRP by the formula below $\text{EIRP} = G_t - L + P_t$.
Gt: gain of replacing antenna (dBi)
L: feeder loss between SSG and replacing antenna
Pt: Output power of the SSG
8. If the antenna for the EUT has circular polarization, sum of V-field and H-field will be result if measuring antenna is linear polarization.

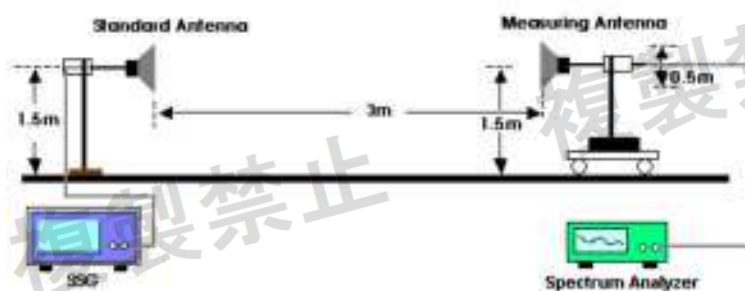


3.4.4 Test Setup

<For EUT radiation measurement>



<For standard antenna measurement>



3.4.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.4.6 Test Result of Transmission Antenna Gain (EIRP Antenna Power)

Please refer to Appendix B.

For the antenna gain, please refer to antenna test report.



3.5 Unwanted Emission Strength Measurement

3.5.1 Limit

Item	Support Band	Limits
Tx Spurious Emission	W52 / W53	Bandwidth \leq 18MHz \leq 2.5 μ W/MHz : f < 5140MHz, f > 5360MHz 18MHz < Bandwidth \leq 19MHz \leq 2.5 μ W/MHz : f < 5135MHz, f > 5365MHz Bandwidth \leq 38MHz \leq 2.5 μ W/MHz : f < 5100MHz, f > 5400MHz Bandwidth \leq 78MHz \leq 2.5 μ W/MHz : f < 5020MHz, f > 5480MHz
	W56	Bandwidth \leq 19.7MHz (Others) \leq 2.5 μ W/MHz : f < 5460MHz, f > 5740MHz Bandwidth \leq 19.7MHz (OFDM) \leq 2.5 μ W/MHz : f < 5455MHz, f > 5745MHz Bandwidth \leq 38MHz \leq 2.5 μ W/MHz : f < 5420MHz, f > 5760MHz Bandwidth \leq 78MHz \leq 2.5 μ W/MHz : f < 5340MHz, f > 5860MHz

3.5.2 Measuring Instruments

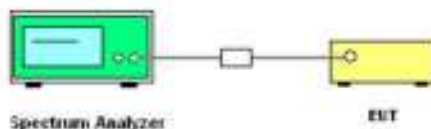
See list of measuring instruments of this test report.



3.5.3 Test Procedures

1. EUT have transmitted the maximum power and fixed channelize.
2. Setting of SA is following as: RBW:1MHz / VBW:1MHz above 1GHz, Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
3. Setting of SA is following as: RBW:100kHz / VBW:100kHz under 1GHz, Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
4. Setting of SA is following as 30MHz and stop specific frequency. Then to mark peak reading value + cable loss shall be less than 2.5 μ W.
5. SA adjusted to start specific frequency and stop frequency 26000MHz. Then to mark peak reading value + cable loss shall be less than 2.5 μ W.
6. If the Result_Value is over the requirement, we need to measurement as below steps.
7. Span 1~10MHz to find the frequency that have maximum value.
8. Setting of SA is following as: Span: Zero / RBW:100kHz(1MHz) ,VBW:100kHz(1MHz) under(above) 1GHz/ Sweep time: Auto / Sweep Mode: Singled sweep / Detect mode: Sample.
9. Calculated the mean power value, add all value of test point and division sample point number.
10. Report the mean power.

3.5.4 Test Setup



3.5.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.5.6 Test Result of Unwanted Emission Strength

Please refer to Appendix B.



3.6 Out-Band Leakage Power Measurement

3.6.1 Limit

Item	Support Band	Limits
Out-Band Spurious Emission (E.I.R.P)	W52	Bandwidth \leq 18MHz
		5140MHz ~ 5142MHz : \leq 2.5 μ W/MHz
		5142MHz ~ 5150MHz : \leq 15 μ W/MHz
		5250MHz ~ 5251MHz : \leq $10^{1-(f-5240-9)}$ mW/MHz
		5251MHz ~ 5260MHz : \leq $10^{-1-(8/90)(f-5240-11)}$ mW/MHz
		5260MHz ~ 5266.7MHz : \leq $10^{-1.8-(6/50)(f-5240-20)}$ mW/MHz
		5266.7MHz ~ 5360MHz : \leq 2.5 μ W/MHz
		18MHz < Bandwidth \leq 19MHz
		5135MHz ~ 5142MHz : \leq 2.5 μ W/MHz
		5142MHz ~ 5150MHz : \leq 15 μ W/MHz
		5250MHz ~ 5251MHz : \leq $10^{1-(f-5240-9)}$ mW/MHz
		5251MHz ~ 5260MHz : \leq $10^{-1-(8/90)(f-5240-11)}$ mW/MHz
		5260MHz ~ 5266.7MHz : \leq $10^{-1.8-(6/50)(f-5240-20)}$ mW/MHz
		5266.7MHz ~ 5365MHz : \leq 2.5 μ W/MHz
		Bandwidth \leq 38MHz
		5100MHz ~ 5141.6MHz : \leq 2.5 μ W/MHz
		5141.6MHz ~ 5150MHz : \leq 15 μ W/MHz
		5250MHz ~ 5251MHz : \leq $10^{-(f-5230-20)+\text{Log}(1/2)}$ mW/MHz
		5251MHz ~ 5270MHz : \leq $10^{-(8/190)(f-5230-21)-1+\text{Log}(1/2)}$ mW/MHz
		5270MHz ~ 5278.4MHz : \leq $10^{-(3/50)(f-5230-40)-1.8+\text{Log}(1/2)}$ mW/MHz
		5278.4MHz ~ 5400MHz : \leq 2.5 μ W/MHz
		Bandwidth \leq 78MHz
		5020MHz ~ 5123.2MHz : \leq 2.5 μ W/MHz
		5123.2MHz ~ 5150MHz : \leq 15 μ W/MHz
		5250MHz ~ 5251MHz : \leq $10^{-(f-5210-40)+\text{Log}(1/4)}$ mW/MHz
		5251MHz ~ 5290MHz : \leq $10^{-(8/390)(f-5210-41)-1+\text{Log}(1/4)}$ mW/MHz
		5290MHz ~ 5296.7MHz : \leq $10^{-(3/100)(f-5210-80)-1.8+\text{Log}(1/4)}$ mW/MHz
		5296.7MHz ~ 5480MHz : \leq 2.5 μ W/MHz



Out-Band Spurious Emission (E.I.R.P)	W53	Bandwidth \leq 18MHz 5140MHz ~ 5233.3MHz : \leq 2.5 μ W/MHz 5233.3MHz ~ 5240MHz : \leq $10^{-1.8-(6/50)(f-5260-20)}$ mW/MHz 5240MHz ~ 5249MHz : \leq $10^{-1-(8/90)(f-5260-11)}$ mW/MHz 5249MHz ~ 5250MHz : \leq $10^{1-(f-5260-9)}$ mW/MHz 5350MHz ~ 5360MHz : \leq 2.5 μ W/MHz 18MHz < Bandwidth \leq 19MHz 5135MHz ~ 5233.3MHz : \leq 2.5 μ W/MHz 5233.3MHz ~ 5240MHz : \leq $10^{-1.8-(6/50)(f-5260-20)}$ mW/MHz 5240MHz ~ 5249MHz : \leq $10^{-1-(8/90)(f-5260-11)}$ mW/MHz 5249MHz ~ 5250MHz : \leq $10^{1-(f-5260-9)}$ mW/MHz 5350MHz ~ 5365MHz : \leq 2.5 μ W/MHz
		Bandwidth \leq 38MHz 5100MHz ~ 5221.6MHz : \leq 2.5 μ W/MHz 5221.6MHz ~ 5230MHz : \leq $10^{-(3/50)(f-5270-40)-1.8+\text{Log}(1/2)}$ mW/MHz 5230MHz ~ 5249MHz : \leq $10^{-(8/190)(f-5270-21)-1+\text{Log}(1/2)}$ mW/MHz 5249MHz ~ 5250MHz : \leq $10^{-(f-5270-20)+\text{Log}(1/2)}$ mW/MHz 5350MHz ~ 5358.4MHz : \leq 15 μ W/MHz 5358.4MHz ~ 5400MHz : \leq 2.5 μ W/MHz Bandwidth \leq 78MHz 5020MHz ~ 5203.3MHz : \leq 2.5 μ W/MHz 5203.3MHz ~ 5210MHz : \leq $10^{-(3/100)(f-5290-80)-1.8+\text{Log}(1/4)}$ mW/MHz 5230MHz ~ 5249MHz : \leq $10^{-(8/390)(f-5290-41)-1+\text{Log}(1/4)}$ mW/MHz 5249MHz ~ 5250MHz : \leq $10^{-(f-5290-40)+\text{Log}(1/4)}$ mW/MHz 5350MHz ~ 5376.8MHz : \leq 15 μ W/MHz 5376.8MHz ~ 5480MHz : \leq 2.5 μ W/MHz



Out-Band Spurious Emission (E.I.R.P)	W56	Bandwidth \leq 19.7MHz (Others)
		5460MHz ~ 5470MHz : \leq 12.5 μ W/MHz
		5725MHz ~ 5740MHz : \leq 12.5 μ W/MHz
		Bandwidth \leq 19.7MHz (OFDM)
		5455MHz ~ 5460MHz : \leq 2.5 μ W/MHz
		5460MHz ~ 5470MHz : \leq 12.5 μ W/MHz
		5725MHz ~ 5740MHz : \leq 12.5 μ W/MHz
		5740MHz ~ 5745MHz : \leq 2.5 μ W/MHz
		Bandwidth \leq 38MHz
		5420MHz ~ 5460MHz : \leq 12.5 μ W/MHz
		5460MHz ~ 5470MHz : \leq 50 μ W/MHz
		5725MHz ~ 5760MHz : \leq 12.5 μ W/MHz
		Bandwidth \leq 78MHz
		5340MHz ~ 5460MHz : \leq 12.5 μ W/MHz
		5460MHz ~ 5469.5MHz : \leq 50 μ W/MHz
		5469.5MHz ~ 5470MHz : \leq 51.2 μ W/MHz
		5725MHz ~ 5860MHz : \leq 12.5 μ W/MHz



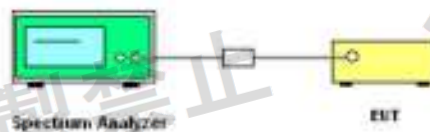
3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

3.6.3 Test Procedures

1. EUT have transmitted the maximum power and fixed channelize.
2. Setting of SA is following as: RBW:1MHz / VBW:1MHz above 1GHz, Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
3. Setting of SA is following as: RBW:100kHz / VBW:100kHz under 1GHz, Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
4. Setting of SA is following as 30MHz and stop specific frequency. Then to mark peak reading value + cable loss shall be less than 2.5μW.
5. SA adjusted to start specific frequency and stop frequency 26000MHz. Then to mark peak reading value + cable loss shall be less than 2.5μW.
6. If the Result_Value is over the requirement, we need to measurement as below steps.
7. Span 1~10MHz to find the frequency that have maximum value.
8. Setting of SA is following as: Span: Zero / RBW:100KHz(1MHz) ,VBW:100KHz(1MHz) under(above) 1GHz/ Sweep time: Auto / Sweep Mode: Singled sweep / Detect mode: Sample.
9. Calculated the mean power value, add all value of test point and division sample point number.
10. Report the Result = the mean power + antenna gain.

3.6.4 Test Setup



3.6.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.6.6 Test Result of Out-Band Leakage Power

Please refer to Appendix B.



3.7 Adjacent Channel Leakage Power Measurement

3.7.1 Limit

Item	Support Band	Limits
Adjacent Channel Leakage Power	W52 +W53	Bandwidth \leq 18MHz (Measuring BW=18MHz) $\pm 20\text{MHz}$: \geq 25dBc $\pm 40\text{MHz}$: \geq 40dBc 18MHz < Bandwidth \leq 19MHz (Measuring BW=19MHz) $\pm 20\text{MHz}$: \geq 25dBc $\pm 40\text{MHz}$: \geq 40dBc Bandwidth \leq 38MHz (Measuring BW=38MHz) $\pm 40\text{MHz}$: \geq 25dBc $\pm 80\text{MHz}$: \geq 40dBc Bandwidth \leq 78MHz (Measuring BW=78MHz) $\pm 80\text{MHz}$: \geq 25dBc
	W56	Bandwidth \leq 19.7MHz (Measuring BW=19MHz) $\pm 20\text{MHz}$: \geq 25dBc $\pm 40\text{MHz}$: \geq 40dBc Bandwidth \leq 38MHz (Measuring BW=38MHz) $\pm 40\text{MHz}$: \geq 25dBc $\pm 80\text{MHz}$: \geq 40dBc Bandwidth \leq 78MHz (Measuring BW=78MHz) $\pm 80\text{MHz}$: \geq 25dBc

3.7.2 Measuring Instruments

See list of measuring instruments of this test report.



3.7.3 Test Procedures

1. EUT have transmitted the maximum power and fixed channelize.
2. Setting of SA is following as: RBW:300kHz / VBW:300kHz, Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Sample / Trace mode: Max hold.
3. Use ACP function and setting measuring bandwidth = specific bandwidth / correct measuring rang.
4. Recode the test result and it should be less than specific limit.

3.7.4 Test Setup



3.7.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.7.6 Test Result of Adjacent Channel Leakage Power

Please refer to Appendix B.



3.8 Secondly Emitted Radio Wave Strength Measurement

3.8.1 Limit

Item	Limits
Rx Spurious Emission	$\leq 4\text{nW}$ ($f < 1\text{GHz}$)
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$)

3.8.2 Measuring Instruments

See list of measuring instruments of this test report.

3.8.3 Test Procedures

1. EUT have the continuous reception mode and fixed only one channelize.
2. SA set RBW: 100kHz and VBW: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW.
3. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 26000MHz. Search to mark peak reading value + cable loss shall be less than 20nW.
4. If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

3.8.4 Test Setup



3.8.5 EUT Operation during Test

The EUT was programmed to be in continuously reception mode.

3.8.6 Test Result of Secondly Emitted Radio Wave Strength

Please refer to Appendix B.



3.9 Carrier Sense Function Measurement

3.9.1 Limit

When the device receives the emissions radiated from the radio equipment of a radio station other than that of the party on the other end of communication, and the electric field intensity in the direction of the maximum gain of the receiving antenna exceeds 100 mV/m, the carrier sensing device shall not radiate emissions of the same frequency.

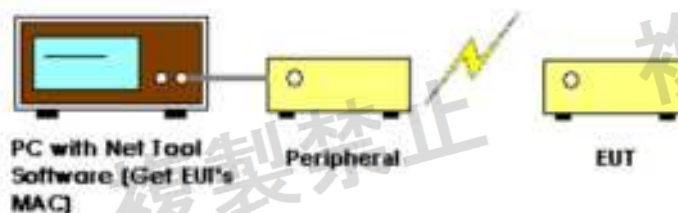
3.9.2 Measuring Instruments

See list of measuring instruments of this test report.

3.9.3 Test Procedures

1. Set the EUT link with a peripheral, access point.
2. Set a signal generator (simulate a radio device which co-exists with EUT) at same frequency channel with a proper signal level (exceeding 100mV/m) output to act as interference signal.
3. Monitor the signal transmission between the EUT and peripheral, while the interference signal presents. The EUT would stop transmitting once it detects interference signal over the air, then record it pass, otherwise, the result is fail.

3.9.4 Test Setup



3.9.5 EUT Operation during Test

The EUT was programmed to be in normal transmitting mode.

3.9.6 Test Result of Carrier Sense Function

Please refer to Appendix B.



3.10DFS Function Measurement

3.10.1 Limit

Follow MIC Notice No.48

1. For Master Station

Support Band	Item	Limits
W53/W56	Non-occupancy Period	≥ 30 min
	Channel Availability Check Time	≥ 60 sec
	Channel Move Time	≤ 10 sec
	Channel Closing Transmission Time	≤ 260 msec

2. For Slave Station

The EUT is able to be controlled by a master station to select the transmitting frequency, to transmit and to stop automatically.

3.10.2 Measuring Instruments

See list of measuring instruments of this test report.

3.10.3 Test Procedures

Follow MIC Notice No.88 Appendix No.45

E.I.R.P (EUT)	Level of radar radio wave in 0 dBi
< 0.2 W	-62 dBm
≥ 0.2 W	-64 dBm

1. For W53 Band

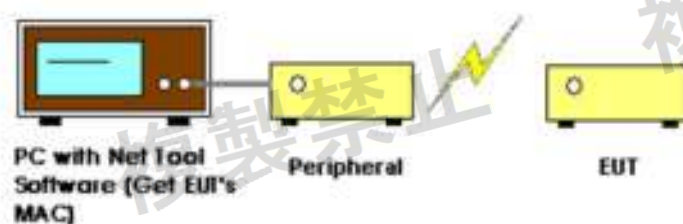
Radar Radio waves (MIC Notice No.48 Appendix No.1)				Radar Detection Probability
Radar Type	Pulse Width (usec.)	Pulse Repetition Frequency (Hz)	Number of Pulses	
I	1	700	18	60% or more
II	2.5	260	18	60% or more

**2. For W56 Band**

Radar Radio waves (MIC Notice No.48 Appendix No.2)				Radar Detection Probability
Radar Type	Pulse Width (usec.)	Pulse Repetition Frequency (Hz)	Number of Pulses	
I	0.5	720	18	60% or more
II	1.0	700	18	60% or more
III	2.0	250	18	60% or more
IV	1.0 ~ 5.0	4347 ~ 6667	23 ~ 29	60% or more
V	6.0 ~ 10.0	2000 ~ 5000	16 ~ 18	60% or more
VI	11.0 ~ 20.0	2000 ~ 5000	12 ~ 16	60% or more

Radar Radio waves (MIC Notice No.48 Appendix No.3)				Radar Detection Probability
Radar Type	Pulse Width (usec.)	Pulse Repetition Frequency (Hz)	Number of Pulses	
I	50 ~ 100	500 ~ 1000	1 ~ 3	80% or more

Radar Radio waves (MIC Notice No.48 Appendix No.4)				Radar Detection Probability
Radar Type	Pulse Width (usec.)	Pulse Repetition Frequency (Hz)	Number of Pulses	
I	1	3000	9	70% or more

3.10.4 Test Setup**3.10.5 EUT Operation during Test**

The EUT was programmed to be in normal transmitting mode.

3.10.6 Test Result of DFS Function

Please refer to Appendix B.



3.11 Burst Length of Transmitted Signals Measurement

3.11.1 Limit

Item	Limits
Burst Length	$\leq 4\text{msec}$

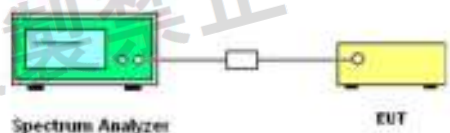
3.11.2 Measuring Instruments

See list of measuring instruments of this test report.

3.11.3 Test Procedures

1. EUT have transmitted the maximum power and fixed channelize.
2. Setting of SA is following as: RBW: 10MHz / VBW: 10MHz / Zero Span / Detect mode: Positive peak / Trace mode: Clear Write / Single sweep
3. Use marker function to fine maximum burst length, and the length should be less than 4msec.

3.11.4 Test Setup



3.11.5 EUT Operation during Test

The EUT was programmed to be in normal transmitting mode.

3.11.6 Test Result of Burst Length of Transmitted Signals

Please refer to Appendix B.



3.12 Interference Prevention Capability Measurement

3.12.1 Limit

Item	Limits
Identification code	≥ 48 bits

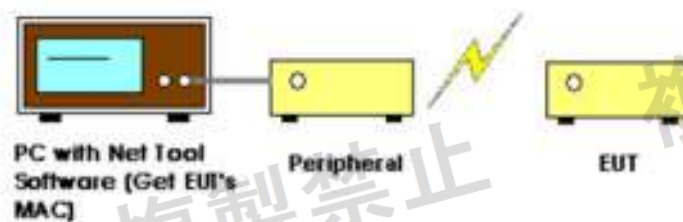
3.12.2 Measuring Instruments

See list of measuring instruments of this test report.

3.12.3 Test Procedures

1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes from the counterpart. d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

3.12.4 Test Setup



3.12.5 EUT Operation during Test

The EUT was programmed to be in normal transmitting mode.

3.12.6 Test Result of Radio Interference Prevention Capability

Please refer to Appendix B.



3.13 Construction Protection Confirmation Method

3.13.1 Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

3.13.2 Confirmation Method

<input type="checkbox"/>	Sealed with special screws.
<input type="checkbox"/>	Plastic chassis is being welded using ultrasonic waves.
<input type="checkbox"/>	Chassis is glued using a special adhesive.
<input type="checkbox"/>	Metal covers are spot-fused.
<input type="checkbox"/>	Cover is specially interlocked.
<input type="checkbox"/>	RF and Modulation components are covered with shielding case and this shielding case is soldered.
<input checked="" type="checkbox"/>	Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
<input type="checkbox"/>	Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
<input type="checkbox"/>	Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
<input type="checkbox"/>	Other :

3.13.3 The Photos of Construction Protection





4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Periods of Test	Due Date	Calibration Body	Calibration Method
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 07, 2018	Feb. 26, 2019~ Apr. 01, 2019	Aug. 06, 2019	CEPREI Calibration and Testing Center	C
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Oct. 11, 2018	Feb. 26, 2019~ Apr. 01, 2019	Oct. 10, 2019	CEPREI Calibration and Testing Center	C
Pulse Power Sensor	Anritsu	ML2495A	1339163	300MHz~40GHz	Nov. 19, 2018	Feb. 26, 2019~ Apr. 01, 2019	Nov. 18, 2019	CEPREI Calibration and Testing Center	C
Power Meter	Anritsu	ML2495A	1435004	50MHz Bandwidth	Nov. 19, 2018	Feb. 26, 2019~ Apr. 01, 2019	Nov. 18, 2019	CEPREI Calibration and Testing Center	C
Signal Generator	R&S	SMR20	101787	10MHz~20GHz	Apr. 18, 2018	Feb. 26, 2019~ Apr. 01, 2019	Apr. 17, 2019	CEPREI Calibration and Testing Center	C
Multi-meter	YFE	YF-303	YF-303-01	-	Apr. 18, 2018	Feb. 26, 2019~ Apr. 01, 2019	Apr. 17, 2019	CEPREI Calibration and Testing Center	C
DC Power Supply	GW INSTEK	GPD-2303S	GEO861339	Max 31	Oct. 12, 2018	Feb. 26, 2019~ Apr. 01, 2019	Oct. 11, 2019	CEPREI Calibration and Testing Center	C

Note: Above test equipment was used and kept valid calibration period during test.

Calibration Method :

a) : Calibration conducted by the National Institute of Information and Communications Technology~
NICT~ or a designated calibration agency under Article 102-18 paragraph

(1) TELEC Engineering Center, Intertek Japan K.K., Keysight Technologies, Inc~.

b) : Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement
Law (Law No. 51 of 1992)~Japan Calibration Service System~

c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by
the NICT or a designated calibration agency under Article 102-18 paragraph

(1)~ TELEC Engineering Center, Intertek Japan K.K., Keysight Technologies, Inc~.



Appendix A. Setup Photographs

Front View



Near View





Appendix B. Test Results

Please refer to the following pages for test results.

1. TEST RESULTS DATA WLAN W52 Band - 802.11a

Environment of Test Room	Temperature	21-25 °C
	Humidity	49-51 %
Test Engineer	Orion Li	

Modulatoin Type:	OFDM
Type Emissions:	17M2G1D/D1D

Peak Antenna Gain	1.43	dBi
Declaration Output Power	2.60	mW/MHz
Declaration Output Power	4.150	dBm/MHz
E.I.R.P	5.580	dBm/MHz
Input Power Voltage	3.850	VDC

Antenna System	SISO Nss=1
----------------	-----------------------------

Antenna	No.	Type	Gain
	1	FPC	1.43
	2	---	---
	3	---	---

Tested Circuit Insertion Loss	6.8	dB
Burst	ON TIME	1.370 msec
	OFF TIME	0.196 msec
	Ratio	87.50 %
Packet Type (Mode)	6Mbps	mode

Test Category :	5GHz Band Low-Power Data Communication System
Comprehensive operation test	
Use the DC Power Supply to adjust Voltate.	

1.1. TEST Results (Normal Voltage)

Measurement Frequency	MHz	5180	5200	5220	5240	Result
Channel Number	Ch.	36	40	44	48	----
Reading Frequency (TX1)	MHz	5180.008	5200.013	5220.013	5240.013	----
Frequency Tolerance (TX1)	ppm	1.5077	2.4212	2.4119	2.4027	PASS
Reading Frequency (TX2)	MHz	----	----	----	----	----
Frequency Tolerance (TX2)	ppm	----	----	----	----	----
Reading Frequency (TX3)	MHz	----	----	----	----	----
Frequency Tolerance (TX3)	ppm	----	----	----	----	----
Occupied Bandwidth (TX1)	MHz	17.15	17.22	16.79	17.22	PASS
Occupied Bandwidth (TX2)	MHz	----	----	----	----	----
Occupied Bandwidth (TX3)	MHz	----	----	----	----	----
RF Output Power (TX 1)	mW/MHz	2.410	2.393	2.350	2.344	----
RF Output Power (TX 2)	mW/MHz	----	----	----	----	----
RF Output Power (TX 3)	mW/MHz	----	----	----	----	----
RF Output Power (Max)	mW/MHz	2.410	2.393	2.350	2.344	PASS
RF Output Power Tolerance Max(TX1,TX2,TX3)	%	-7.31	-7.95	-9.63	-9.84	PASS
Real Total Output Power (TX 1)	dBm	14.96	15.36	14.94	14.97	<Reference>
Real Total Output Power (TX 2)	dBm	----	----	----	----	<Reference>
Real Total Output Power (TX 3)	dBm	----	----	----	----	<Reference>
Real Total Output Power (Max)	dBm	14.96	15.36	14.94	14.97	<Reference>

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1.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5180	5200	5220	5240	Result
Channel Number		Ch.	36	40	44	48	----
Unwanted Emission Strength (TX 1)	30MHz - 5140MHz	μW/MHz	0.0340	0.0231	0.0209	0.0090	PASS
		MHz	5128.100	5061.880	5041.180	834.535	----
	5360MHz - 26GHz	μW/MHz	0.0472	0.0443	0.0619	0.0399	PASS
		MHz	6856.010	6909.670	6785.140	6974.340	----
Unwanted Emission Strength (TX 2)	30MHz - 5140MHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5360MHz - 26GHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
Unwanted Emission Strength (TX 3)	30MHz - 5140MHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5360MHz - 26GHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
Unwanted Emission Strength (TX 1+2) or (TX 1+2+3)	30MHz - 5140MHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5360MHz - 26GHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.						
	Adjacent Channel Leakage Power (TX1)	CF -40MHz	dB	-59.44	-59.34	-59.30	-59.13
CF -20MHz		dB	-38.91	-39.98	-39.35	-39.79	PASS
CF +20MHz		dB	-39.96	-39.75	-39.60	-39.02	PASS
CF +40MHz		dB	-59.48	-59.29	-59.12	-59.28	PASS
Adjacent Channel Leakage Power (TX2)	CF -40MHz	dB	----	----	----	----	----
	CF -20MHz	dB	----	----	----	----	----
	CF +20MHz	dB	----	----	----	----	----
	CF +40MHz	dB	----	----	----	----	----
Adjacent Channel Leakage Power (TX3)	CF -40MHz	dB	----	----	----	----	----
	CF -20MHz	dB	----	----	----	----	----
	CF +20MHz	dB	----	----	----	----	----
	CF +40MHz	dB	----	----	----	----	----

1.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5180	5200	5220	5240	Result
Channel Number		Ch.	36	40	44	48	----
Out-Band Leakage Power (TX 1)	5140 - 5142MHz	$\mu\text{W}/\text{MHz}$	0.076	0.048	0.049	0.010	PASS
		MHz	5140.740	5141.580	5141.960	5140.980	----
	5142 - 5150MHz	$\mu\text{W}/\text{MHz}$	0.097	0.106	0.047	0.010	PASS
		MHz	5148.830	5147.850	5148.970	5142.480	----
	5250 - 5251MHz	$\mu\text{W}/\text{MHz}$	0.058	0.066	0.174	39.537	PASS
		MHz	5250.830	5250.990	5250.020	5250.000	----
	Limit	$\mu\text{W}/\text{MHz}$	147.911	102.329	954.993	1000.000	----
	5251 - 5260MHz	$\mu\text{W}/\text{MHz}$	0.055	0.089	0.061	10.617	PASS
		MHz	5259.500	5252.290	5252.670	5251.020	----
	Limit	$\mu\text{W}/\text{MHz}$	17.557	76.795	71.049	99.591	----
	5260 - 5266.7MHz	$\mu\text{W}/\text{MHz}$	0.047	0.052	0.057	0.964	PASS
		MHz	5260.690	5262.680	5262.420	5260.850	----
	Limit	$\mu\text{W}/\text{MHz}$	13.098	7.558	8.121	12.531	----
	5266.7 - 5360MHz	$\mu\text{W}/\text{MHz}$	0.056	0.053	0.077	0.585	PASS
		MHz	5274.080	5277.650	5272.540	5266.970	----
Out-Band Leakage Power (TX 2)	5140 - 5142MHz	$\mu\text{W}/\text{MHz}$	----	----	----	----	----
		MHz	----	----	----	----	----
	5142 - 5150MHz	$\mu\text{W}/\text{MHz}$	----	----	----	----	----
		MHz	----	----	----	----	----
	5250 - 5251MHz	$\mu\text{W}/\text{MHz}$	----	----	----	----	----
		MHz	----	----	----	----	----
	Limit	$\mu\text{W}/\text{MHz}$	----	----	----	----	----
	5251 - 5260MHz	$\mu\text{W}/\text{MHz}$	----	----	----	----	----
		MHz	----	----	----	----	----
	Limit	$\mu\text{W}/\text{MHz}$	----	----	----	----	----
	5260 - 5266.7MHz	$\mu\text{W}/\text{MHz}$	----	----	----	----	----
		MHz	----	----	----	----	----
	Limit	$\mu\text{W}/\text{MHz}$	----	----	----	----	----
	5266.7 - 5360MHz	$\mu\text{W}/\text{MHz}$	----	----	----	----	----
		MHz	----	----	----	----	----

1.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5180	5200	5220	5240	Result
Channel Number		Ch.	36	40	44	48	-----
Secondarily emitted radio wave strength (RX 1)	Under 1GHz	nW	0.066681	0.066681	0.062661	0.069663	PASS
		MHz	838.818	901.988	867.796	903.412	-----
	1 - 26GHz	nW	1.086426	1.306171	1.191242	1.119438	PASS
		MHz	19881.830	17417.070	20156.820	15384.320	-----
Secondarily emitted radio wave strength (RX 2)	Under 1GHz	nW	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	1 - 26GHz	nW	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
Secondarily emitted radio wave strength (RX 3)	Under 1GHz	nW	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	1 - 26GHz	nW	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
Secondarily emitted radio wave strength (RX 1+2) or (RX 1+2+3)	Under 1GHz	nW	-----	-----	-----	-----	-----

	1 - 26GHz	nW	-----	-----	-----	-----	-----

	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.						
	Carrier Sensing Function		dBm	-51.00			PASS
Burst Length of Transmitted Signals		mSec	good			PASS	
Interference Prevention Function		-----	good			PASS	

2. TEST RESULTS DATA

WLAN W52 Band - 802.11n-HT20

Environment of Test Room	Temperature	21-25 °C
	Humidity	49-51 %
Test Engineer	Orion Li	

Modulatoion Type:	OFDM
Type Emissions:	18M3G1D/D1D

Peak Antenna Gain	1.43	dBi
Declaration Output Power	2.80	mW/MHz
Declaration Output Power	4.472	dBm/MHz
E.I.R.P	5.902	dBm/MHz
Input Power Voltage	3.850	VDC

Antenna System	SISO Nss=1
----------------	-----------------------------

Antenna	No.	Type	Gain
	1	FPC	1.43
	2	---	---
	3	---	---

Tested Circuit Insertion Loss	6.8	dB
Burst	ON TIME	1.275 msec
	OFF TIME	0.203 msec
	Ratio	86.27 %
Packet Type (Mode)	MCS0	mode

Test Category :	5GHz Band Low-Power Data Communication System
Comprehensive operation test	
Use the DC Power Supply to adjust Voltate.	

2.1. TEST Results (Normal Voltage)

Measurement Frequency	MHz	5180	5200	5220	5240	Result
Channel Number	Ch.	36	40	44	48	----
Reading Frequency (TX1)	MHz	5180.013	5200.013	5220.013	5240.013	----
Frequency Tolerance (TX1)	ppm	2.5985	2.5038	2.4943	2.4847	PASS
Reading Frequency (TX2)	MHz	----	----	----	----	----
Frequency Tolerance (TX2)	ppm	----	----	----	----	----
Reading Frequency (TX3)	MHz	----	----	----	----	----
Frequency Tolerance (TX3)	ppm	----	----	----	----	----
Occupied Bandwidth (TX1)	MHz	18.31	18.09	18.09	18.16	PASS
Occupied Bandwidth (TX2)	MHz	----	----	----	----	----
Occupied Bandwidth (TX3)	MHz	----	----	----	----	----
RF Output Power (TX 1)	mW/MHz	2.350	2.350	2.297	2.281	----
RF Output Power (TX 2)	mW/MHz	----	----	----	----	----
RF Output Power (TX 3)	mW/MHz	----	----	----	----	----
RF Output Power (Max)	mW/MHz	2.350	2.350	2.297	2.281	PASS
RF Output Power Tolerance Max(TX1,TX2,TX3)	%	-16.06	-16.06	-17.97	-18.54	PASS
Real Total Output Power (TX 1)	dBm	15.02	15.25	14.98	14.97	<Reference>
Real Total Output Power (TX 2)	dBm	----	----	----	----	<Reference>
Real Total Output Power (TX 3)	dBm	----	----	----	----	<Reference>
Real Total Output Power (Max)	dBm	15.02	15.25	14.98	14.97	<Reference>

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2.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5180	5200	5220	5240	Result
Channel Number		Ch.	36	40	44	48	----
Unwanted Emission Strength (TX 1)	30MHz - 5135MHz	μW/MHz	0.0347	0.0209	0.0212	0.0094	PASS
		MHz	5126.030	5022.560	5072.220	972.483	----
	5365MHz - 26GHz	μW/MHz	0.0390	0.0478	0.0446	0.0394	PASS
		MHz	15545.840	6916.550	6977.780	6994.980	----
Unwanted Emission Strength (TX 2)	30MHz - 5135MHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5365MHz - 26GHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
Unwanted Emission Strength (TX 3)	30MHz - 5135MHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5365MHz - 26GHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
Unwanted Emission Strength (TX 1+2) or (TX 1+2+3)	30MHz - 5135MHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5365MHz - 26GHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.						
Adjacent Channel Leakage Power (TX1)	CF -40MHz	dB	-59.42	-59.33	-59.21	-59.12	PASS
	CF -20MHz	dB	-38.41	-37.94	-39.02	-38.16	PASS
	CF +20MHz	dB	-38.51	-38.54	-38.40	-38.41	PASS
	CF +40MHz	dB	-59.39	-59.19	-59.29	-59.08	PASS
Adjacent Channel Leakage Power (TX2)	CF -40MHz	dB	----	----	----	----	----
	CF -20MHz	dB	----	----	----	----	----
	CF +20MHz	dB	----	----	----	----	----
	CF +40MHz	dB	----	----	----	----	----
Adjacent Channel Leakage Power (TX3)	CF -40MHz	dB	----	----	----	----	----
	CF -20MHz	dB	----	----	----	----	----
	CF +20MHz	dB	----	----	----	----	----
	CF +40MHz	dB	----	----	----	----	----

2.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5180	5200	5220	5240	Result
Channel Number		Ch.	36	40	44	48	----
Out-Band Leakage Power (TX 1)	5135 - 5142MHz	μ W/MHz	0.051	0.050	0.053	0.010	PASS
		MHz	5141.930	5140.420	5141.130	5141.170	----
	5142 - 5150MHz	μ W/MHz	0.106	0.143	0.049	0.010	PASS
		MHz	5149.800	5148.240	5142.720	5142.590	----
	5250 - 5251MHz	μ W/MHz	0.061	0.074	0.166	87.498	PASS
		MHz	5250.180	5250.930	5250.480	5250.010	----
	Limit	μ W/MHz	660.693	117.490	331.131	977.237	----
	5251 - 5260MHz	μ W/MHz	0.050	0.099	0.110	13.274	PASS
		MHz	5256.850	5251.900	5251.300	5251.030	----
	Limit	μ W/MHz	30.200	83.176	94.044	99.388	----
	5260 - 5266.7MHz	μ W/MHz	0.050	0.059	0.052	7.551	PASS
		MHz	5262.170	5262.020	5265.360	5260.160	----
	Limit	μ W/MHz	8.702	9.070	3.604	15.164	----
	5266.7 - 5365MHz	μ W/MHz	0.052	0.054	0.116	0.881	PASS
		MHz	5289.310	5281.540	5271.770	5267.080	----
Out-Band Leakage Power (TX 2)	5135 - 5142MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5142 - 5150MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5250 - 5251MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	Limit	μ W/MHz	----	----	----	----	----
	5251 - 5260MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	Limit	μ W/MHz	----	----	----	----	----
	5260 - 5266.7MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	Limit	μ W/MHz	----	----	----	----	----
	5266.7 - 5365MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----

2.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5180	5200	5220	5240	Result
Channel Number		Ch.	36	40	44	48	-----
Secondarily emitted radio wave strength (RX 1)	Under 1GHz	nW	0.068391	0.060674	0.066222	0.071945	PASS
		MHz	888.438	924.418	922.842	900.896	-----
	1 - 26GHz	nW	1.137627	1.119438	0.995405	1.191242	PASS
		MHz	16657.710	19888.860	15707.740	25423.850	-----
Secondarily emitted radio wave strength (RX 2)	Under 1GHz	nW	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	1 - 26GHz	nW	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
Secondarily emitted radio wave strength (RX 3)	Under 1GHz	nW	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	1 - 26GHz	nW	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
Secondarily emitted radio wave strength (RX 1+2) or (RX 1+2+3)	Under 1GHz	nW	-----	-----	-----	-----	-----

	1 - 26GHz	nW	-----	-----	-----	-----	-----

	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.						
	Carrier Sensing Function		dBm	-51.00			PASS
Burst Length of Transmitted Signals		mSec	good			PASS	
Interference Prevention Function		-----	good			PASS	

3. TEST RESULTS DATA

WLAN W52 Band - 802.11n-HT40

Environment of Test Room	Temperature	21-25 °C
	Humidity	49-51 %
Test Engineer	Orion Li	

Modulatoion Type:	OFDM
Type Emissions:	36M0G1D/D1D

Peak Antenna Gain	1.43	dBi
Declaration Output Power	1.30	mW/MHz
Declaration Output Power	1.139	dBm/MHz
E.I.R.P	2.569	dBm/MHz
Input Power Voltage	3.850	VDC

Antenna System	SISO Nss=1
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Antenna	No.	Type	Gain
	1	FPC	1.43
	2	---	---
	3	---	---

Tested Circuit Insertion Loss		6.8	dB
Burst	ON TIME	1.232	msec
	OFF TIME	0.196	msec
	Ratio	86.29	%
Packet Type (Mode)		MCS0	mode

Test Category :	5GHz Band Low-Power Data Communication System
Comprehensive operation test	
Use the DC Power Supply to adjust Voltate.	

3.1. TEST Results (Normal Voltage)

Measurement Frequency	MHz	5190	----	----	5230	Result
Channel Number	Ch.	38	----	----	46	----
Reading Frequency (TX1)	MHz	5190.013	----	----	5230.013	----
Frequency Tolerance (TX1)	ppm	2.4258	----	----	2.4073	PASS
Reading Frequency (TX2)	MHz	----	----	----	----	----
Frequency Tolerance (TX2)	ppm	----	----	----	----	----
Reading Frequency (TX3)	MHz	----	----	----	----	----
Frequency Tolerance (TX3)	ppm	----	----	----	----	----
Occupied Bandwidth (TX1)	MHz	36.03	----	----	35.89	PASS
Occupied Bandwidth (TX2)	MHz	----	----	----	----	----
Occupied Bandwidth (TX3)	MHz	----	----	----	----	----
RF Output Power (TX 1)	mW/MHz	1.167	----	----	1.230	----
RF Output Power (TX 2)	mW/MHz	----	----	----	----	----
RF Output Power (TX 3)	mW/MHz	----	----	----	----	----
RF Output Power (Max)	mW/MHz	1.167	----	----	1.230	PASS
RF Output Power Tolerance Max(TX1,TX2,TX3)	%	-10.24	----	----	-5.36	PASS
Real Total Output Power (TX 1)	dBm	15.18	----	----	15.25	<Reference>
Real Total Output Power (TX 2)	dBm	----	----	----	----	<Reference>
Real Total Output Power (TX 3)	dBm	----	----	----	----	<Reference>
Real Total Output Power (Max)	dBm	15.18	----	----	15.25	<Reference>

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3.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5190	----	----	5230	Result
Channel Number		Ch.	38	----	----	46	----
Unwanted Emission Strength (TX 1)	30MHz - 5100MHz	μW/MHz	0.0212	----	----	0.0071	PASS
		MHz	3941.530	----	----	5085.140	----
	5400MHz - 26GHz	μW/MHz	0.0409	----	----	0.0436	PASS
		MHz	6665.140	----	----	6689.170	----
Unwanted Emission Strength (TX 2)	30MHz - 5100MHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5400MHz - 26GHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
Unwanted Emission Strength (TX 3)	30MHz - 5100MHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5400MHz - 26GHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
Unwanted Emission Strength (TX 1+2) or (TX 1+2+3)	30MHz - 5100MHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5400MHz - 26GHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.						
	Adjacent Channel Leakage Power (TX1)	CF -80MHz	dB	-56.40	----	----	-56.72
CF -40MHz		dB	-38.35	----	----	-38.03	PASS
CF +40MHz		dB	-39.10	----	----	-39.21	PASS
CF +80MHz		dB	-56.74	----	----	-57.06	PASS
Adjacent Channel Leakage Power (TX2)	CF -80MHz	dB	----	----	----	----	----
	CF -40MHz	dB	----	----	----	----	----
	CF +40MHz	dB	----	----	----	----	----
	CF +80MHz	dB	----	----	----	----	----
Adjacent Channel Leakage Power (TX3)	CF -80MHz	dB	----	----	----	----	----
	CF -40MHz	dB	----	----	----	----	----
	CF +40MHz	dB	----	----	----	----	----
	CF +80MHz	dB	----	----	----	----	----

3.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5190	----	----	5230	Result
Channel Number		Ch.	38	----	----	46	----
Out-Band Leakage Power (TX 1)	5100 - 5141.6MHz	μ W/MHz	0.169	----	----	0.014	PASS
		MHz	5137.210	----	----	5126.630	----
	5141.6 - 5150MHz	μ W/MHz	0.668	----	----	0.011	PASS
		MHz	5148.510	----	----	5149.720	----
	5250 - 5251MHz	μ W/MHz	0.104	----	----	10.023	PASS
		MHz	5250.270	----	----	5250.040	----
	Limit	μ W/MHz	268.516	----	----	456.005	----
	5251 - 5270MHz	μ W/MHz	0.055	----	----	4.355	PASS
		MHz	5251.100	----	----	5251.030	----
	Limit	μ W/MHz	49.518	----	----	49.855	----
	5270 - 5278.4MHz	μ W/MHz	0.058	----	----	0.430	PASS
		MHz	5278.080	----	----	5271.140	----
	Limit	μ W/MHz	2.595	----	----	6.770	----
	5278.4 - 5400MHz	μ W/MHz	0.060	----	----	0.110	PASS
		MHz	5294.160	----	----	5278.510	----
Out-Band Leakage Power (TX 2)	5100 - 5141.6MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5141.6 - 5150MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5250 - 5251MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	Limit	μ W/MHz	----	----	----	----	----
	5251 - 5270MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	Limit	μ W/MHz	----	----	----	----	----
	5270 - 5278.4MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	Limit	μ W/MHz	----	----	----	----	----
	5278.4 - 5400MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----

3.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5190	----	----	5230	Result
Channel Number		Ch.	38	----	----	46	----
Secondarily emitted radio wave strength (RX 1)	Under 1GHz	nW	0.071285	----	----	0.083176	PASS
		MHz	916.113	----	----	681.259	----
	1 - 26GHz	nW	1.054387	----	----	1.104079	PASS
		MHz	16646.78	----	----	16613.97	----
Secondarily emitted radio wave strength (RX 2)	Under 1GHz	nW	----	----	----	----	----
		MHz	----	----	----	----	----
	1 - 26GHz	nW	----	----	----	----	----
		MHz	----	----	----	----	----
Secondarily emitted radio wave strength (RX 3)	Under 1GHz	nW	----	----	----	----	----
		MHz	----	----	----	----	----
	1 - 26GHz	nW	----	----	----	----	----
		MHz	----	----	----	----	----
Secondarily emitted radio wave strength (RX 1+2) or (RX 1+2+3)	Under 1GHz	nW	----	----	----	----	----
				----	----	----	----
	1 - 26GHz	nW	----	----	----	----	----
				----	----	----	----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.						
	Carrier Sensing Function		dBm	-51.00			PASS
Burst Length of Transmitted Signals		mSec	good			PASS	
Interference Prevention Function		----	good			PASS	

4. TEST RESULTS DATA

WLAN W52 Band - 802.11ac-VHT80

Environment of Test Room	Temperature	21-25 °C
	Humidity	49-51 %
Test Engineer	Orion Li	

Modulatoion Type:	OFDM
Type Emissions:	74M4G1D/D1D

Peak Antenna Gain	1.43	dBi
Declaration Output Power	0.70	mW/MHz
Declaration Output Power	-1.549	dBm/MHz
E.I.R.P	-0.119	dBm/MHz
Input Power Voltage	3.850	VDC

Antenna System	SISO Nss=1
----------------	-----------------------------

Antenna	No.	Type	Gain
	1	FPC	1.43
	2	---	---
	3	---	---

Tested Circuit Insertion Loss		6.8	dB
Burst	ON TIME	0.249	msec
	OFF TIME	0.199	msec
	Ratio	55.66	%
Packet Type (Mode)		MCS0	mode

Test Category :	5GHz Band Low-Power Data Communication System
Comprehensive operation test	
Use the DC Power Supply to adjust Voltate.	

4.1. TEST Results (Normal Voltage)

Measurement Frequency	MHz	5210	----	Result
Channel Number	Ch.	42	----	----
Reading Frequency (TX1)	MHz	5210.015	----	----
Frequency Tolerance (TX1)	ppm	2.8330	----	PASS
Reading Frequency (TX2)	MHz	----	----	----
Frequency Tolerance (TX2)	ppm	----	----	----
Reading Frequency (TX3)	MHz	----	----	----
Frequency Tolerance (TX3)	ppm	----	----	----
Occupied Bandwidth (TX1)	MHz	74.38	----	PASS
Occupied Bandwidth (TX2)	MHz	----	----	----
Occupied Bandwidth (TX3)	MHz	----	----	----
RF Output Power (TX 1)	mW/MHz	0.588	----	----
RF Output Power (TX 2)	mW/MHz	----	----	----
RF Output Power (TX 3)	mW/MHz	----	----	----
RF Output Power (Max)	mW/MHz	0.588	----	PASS
RF Output Power Tolerance Max(TX1,TX2,TX3)	%	-15.99	----	PASS
Real Total Output Power (TX 1)	dBm	15.06	----	<Reference>
Real Total Output Power (TX 2)	dBm	----	----	<Reference>
Real Total Output Power (TX 3)	dBm	----	----	<Reference>
Real Total Output Power (Max)	dBm	15.06	----	<Reference>

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4.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5210	----	Result
Channel Number		Ch.	42	----	----
Unwanted Emission Strength (TX 1)	30MHz - 5020MHz	μW/MHz	0.0237	-----	PASS
		MHz	3957.480	-----	-----
	5480MHz - 26GHz	μW/MHz	0.0383	-----	PASS
		MHz	6922.850	-----	-----
Unwanted Emission Strength (TX 2)	30MHz - 5020MHz	μW/MHz	-----	-----	-----
		MHz	-----	-----	-----
	5480MHz - 26GHz	μW/MHz	-----	-----	-----
		MHz	-----	-----	-----
Unwanted Emission Strength (TX 3)	30MHz - 5020MHz	μW/MHz	-----	-----	-----
		MHz	-----	-----	-----
	5480MHz - 26GHz	μW/MHz	-----	-----	-----
		MHz	-----	-----	-----
Unwanted Emission Strength (TX 1+2) or (TX 1+2+3)	30MHz - 5020MHz	μW/MHz	-----	-----	-----
		MHz	-----	-----	-----
	5480MHz - 26GHz	μW/MHz	-----	-----	-----
		MHz	-----	-----	-----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.				
ACLR (TX1)	CF -80MHz	dB	-43.51	-----	PASS
	CF +80MHz	dB	-40.73	-----	PASS
ACLR (TX2)	CF -80MHz	dB	-----	-----	-----
	CF +80MHz	dB	-----	-----	-----
ACLR (TX3)	CF -80MHz	dB	-----	-----	-----
	CF +80MHz	dB	-----	-----	-----

4.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5210	----	Result
Channel Number		Ch.	42	----	----
Out-Band Leakage Power (TX 1)	5020 - 5123.2MHz	μ W/MHz	0.073	----	PASS
		MHz	5100.440	----	----
	5123.2 - 5150MHz	μ W/MHz	0.270	----	PASS
		MHz	5147.890	----	----
	5250 - 5251MHz	μ W/MHz	33.574	----	PASS
		MHz	5250.010	----	----
	Limit	μ W/MHz	244.309	----	----
	5251 - 5290MHz	μ W/MHz	13.305	----	PASS
		MHz	5251.040	----	----
	Limit	μ W/MHz	24.953	----	----
	5290 - 5296.7MHz	μ W/MHz	0.605	----	PASS
		MHz	5294.300	----	----
	Limit	μ W/MHz	2.944	----	----
	5296.7 - 5480MHz	μ W/MHz	0.480	----	PASS
		MHz	5301.350	----	----
Out-Band Leakage Power (TX 2)	5020 - 5123.2MHz	μ W/MHz	----	----	PASS
		MHz	----	----	----
	5123.2 - 5150MHz	μ W/MHz	----	----	PASS
		MHz	----	----	----
	5250 - 5251MHz	μ W/MHz	----	----	PASS
		MHz	----	----	----
	Limit	μ W/MHz	----	----	----
	5251 - 5290MHz	μ W/MHz	----	----	PASS
		MHz	----	----	----
	Limit	μ W/MHz	----	----	----
	5290 - 5296.7MHz	μ W/MHz	----	----	PASS
		MHz	----	----	----
	Limit	μ W/MHz	----	----	----
	5296.7 - 5480MHz	μ W/MHz	----	----	PASS
		MHz	----	----	----

4.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5210	----	Result
Channel Number		Ch.	42	----	----
Secondarily emitted radio wave strength (RX 1)	Under 1GHz	nW	0.059979	----	PASS
		MHz	321.370	----	----
	1 - 26GHz	nW	1.267652	----	PASS
		MHz	16596.000	----	----
Secondarily emitted radio wave strength (RX 2)	Under 1GHz	nW	----	----	=====
		MHz	----	----	----
	1 - 26GHz	nW	----	----	=====
		MHz	----	----	----
Secondarily emitted radio wave strength (RX 3)	Under 1GHz	nW	----	----	=====
		MHz	----	----	----
	1 - 26GHz	nW	----	----	=====
		MHz	----	----	----
Secondarily emitted radio wave strength (RX 1+2) or (RX 1+2+3)	Under 1GHz	nW	----	----	=====
				----	----
	1 - 26GHz	nW	----	----	=====
				----	----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.				
Carrier Sensing Function		dBm	-51.00		PASS
Burst Length of Transmitted Signals		mSec	good		PASS
Interference Prevention Function		----	good		PASS

5. TEST RESULTS DATA

WLAN W53 Band - 802.11a

Environment of Test Room	Temperature	21-25 °C
	Humidity	49-51 %
Test Engineer	Orion Li	

Modulatoin Type:	OFDM
Type Emissions:	16M9G1D/D1D

Peak Antenna Gain	1.16	dBi
Declaration Output Power	2.80	mW/MHz
Declaration Output Power	4.472	dBm/MHz
E.I.R.P	5.632	dBm/MHz
Input Power Voltage	3.850	VDC

Antenna System	SISO Nss=1
----------------	-----------------------------

Antenna	No.	Type	Gain
	1	FPC	1.16
	2	---	---
	3	---	---

Tested Circuit Insertion Loss		6.8	dB
Burst	ON TIME	1.370	msec
	OFF TIME	0.196	msec
	Ratio	87.50	%
Packet Type (Mode)		6Mbps	mode

Equipment Type	Slave without TPC function
----------------	-------------------------------

Test Category : 5GHz Band Low-Power Data Communication System			
Comprehensive operation test			
Use the DC Power Supply to adjust Voltate.			

5.1. TEST Results (Normal Voltage)

Measurement Frequency	MHz	5260	5280	5300	5320	Result
Channel Number	Ch.	52	56	60	64	----
Reading Frequency (TX1)	MHz	5260.013	5280.013	5300.013	5320.013	----
Frequency Tolerance (TX1)	ppm	2.4753	2.3845	2.4566	2.3665	PASS
Reading Frequency (TX2)	MHz	----	----	----	----	----
Frequency Tolerance (TX2)	ppm	----	----	----	----	----
Reading Frequency (TX3)	MHz	----	----	----	----	----
Frequency Tolerance (TX3)	ppm	----	----	----	----	----
Occupied Bandwidth (TX1)	MHz	16.93	16.86	16.93	16.71	PASS
Occupied Bandwidth (TX2)	MHz	----	----	----	----	----
Occupied Bandwidth (TX3)	MHz	----	----	----	----	----
RF Output Power (TX 1)	mW/MHz	2.427	2.360	2.371	2.570	----
RF Output Power (TX 2)	mW/MHz	----	----	----	----	----
RF Output Power (TX 3)	mW/MHz	----	----	----	----	----
RF Output Power (Max)	mW/MHz	2.427	2.360	2.371	2.570	PASS
RF Output Power Tolerance Max(TX1,TX2,TX3)	%	-13.34	-15.70	-15.31	-8.20	PASS
Real Total Output Power (TX 1)	dBm	14.91	15.27	14.86	14.82	<Reference>
Real Total Output Power (TX 2)	dBm	----	----	----	----	<Reference>
Real Total Output Power (TX 3)	dBm	----	----	----	----	<Reference>
Real Total Output Power (Max)	dBm	14.91	15.27	14.86	14.82	<Reference>

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5.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5260	5280	5300	5320	Result
Channel Number		Ch.	52	56	60	64	-----
Unwanted Emission Strength (TX 1)	30MHz - 5140MHz	μW/MHz	0.0080	0.0229	0.0226	0.0229	PASS
		MHz	913.813	5042.220	5054.630	4883.900	-----
	5360MHz - 26GHz	μW/MHz	0.0394	0.0399	0.0428	0.0449	PASS
		MHz	5921.050	6501.700	6906.230	6562.240	-----
Unwanted Emission Strength (TX 2)	30MHz - 5140MHz	μW/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	5360MHz - 26GHz	μW/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
Unwanted Emission Strength (TX 3)	30MHz - 5140MHz	μW/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	5360MHz - 26GHz	μW/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
Unwanted Emission Strength (TX 1+2) or (TX 1+2+3)	30MHz - 5140MHz	μW/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	5360MHz - 26GHz	μW/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.						
	Adjacent Channel Leakage Power (TX1)	CF -40MHz	dB	-59.41	-59.21	-59.17	-59.45
CF -20MHz		dB	-38.91	-38.72	-38.54	-38.62	PASS
CF +20MHz		dB	-39.42	-38.91	-39.60	-39.20	PASS
CF +40MHz		dB	-59.53	-59.63	-59.86	-60.02	PASS
Adjacent Channel Leakage Power (TX2)	CF -40MHz	dB	-----	-----	-----	-----	-----
	CF -20MHz	dB	-----	-----	-----	-----	-----
	CF +20MHz	dB	-----	-----	-----	-----	-----
	CF +40MHz	dB	-----	-----	-----	-----	-----
Adjacent Channel Leakage Power (TX3)	CF -40MHz	dB	-----	-----	-----	-----	-----
	CF -20MHz	dB	-----	-----	-----	-----	-----
	CF +20MHz	dB	-----	-----	-----	-----	-----
	CF +40MHz	dB	-----	-----	-----	-----	-----

5.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5260	5280	5300	5320	Result
Channel Number		Ch.	52	56	60	64	-----
Out-Band Leakage Power (TX 1)	5140 - 5233.3MHz	μ W/MHz	0.030	0.080	0.050	0.045	PASS
		MHz	5232.590	5226.970	5154.770	5189.470	-----
	5233.3 - 5240MHz	μ W/MHz	0.298	0.053	0.070	0.046	PASS
		MHz	5238.950	5237.340	5234.020	5234.800	-----
	Limit	μ W/MHz	11.858	7.600	3.037	3.767	-----
		MHz	5248.930	5246.790	5247.280	5246.090	-----
	5240 - 5249MHz	μ W/MHz	9.572	0.060	0.117	0.045	PASS
		MHz	5248.930	5246.790	5247.280	5246.090	-----
	Limit	μ W/MHz	98.577	63.614	70.325	55.123	-----
		MHz	5249.820	5249.700	5249.150	5249.360	-----
	5249 - 5250MHz	μ W/MHz	42.560	0.081	0.064	0.051	PASS
		MHz	5249.820	5249.700	5249.150	5249.360	-----
	Limit	μ W/MHz	660.693	501.187	141.254	229.087	-----
		MHz	5359.070	5352.120	5354.490	5350.550	-----
	5350 - 5360MHz	μ W/MHz	0.009	0.047	0.087	0.092	PASS
		MHz	5359.070	5352.120	5354.490	5350.550	-----
Out-Band Leakage Power (TX 2)	5140 - 5233.3MHz	μ W/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	5233.3 - 5240MHz	μ W/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	Limit	μ W/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	5240 - 5249MHz	μ W/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	Limit	μ W/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	5249 - 5250MHz	μ W/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	Limit	μ W/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	5350 - 5360MHz	μ W/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----

5.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5260	5280	5300	5320	Result
Channel Number		Ch.	52	56	60	64	----
Secondarily emitted radio wave strength (RX 1)	Under 1GHz	nW	0.065464	0.070795	0.060117	0.062230	PASS
		MHz	913.051	886.953	948.152	838.273	-----
	1 - 26GHz	nW	1.042317	1.188502	1.207814	1.158777	PASS
		MHz	20169.32	19878.71	16545.22	20147.45	-----
Secondarily emitted radio wave strength (RX 2)	Under 1GHz	nW	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	1 - 26GHz	nW	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
Secondarily emitted radio wave strength (RX 3)	Under 1GHz	nW	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	1 - 26GHz	nW	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
Secondarily emitted radio wave strength (RX 1+2) or (RX 1+2+3)	Under 1GHz	nW	-----	-----	-----	-----	-----
		1 - 26GHz	nW	-----	-----	-----	-----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.						
	Carrier Sensing Function		dBm	-51.00			
Link be controlled by Master device		Slave	Complies				PASS
Burst Length of Transmitted Signals		mSec	good				PASS
Interference Prevention Function		-----	good				PASS

6. TEST RESULTS DATA

WLAN W53 Band - 802.11n-HT20

Environment of Test Room	Temperature	21-25 °C
	Humidity	49-51 %
Test Engineer	Orion Li	

Modulatoin Type:	OFDM
Type Emissions:	18M0G1D/D1D

Peak Antenna Gain	1.16	dBi
Declaration Output Power	2.80	mW/MHz
Declaration Output Power	4.472	dBm/MHz
E.I.R.P	5.632	dBm/MHz
Input Power Voltage	3.850	VDC

Antenna System	SISO Nss=1
----------------	-----------------------------

Antenna	No.	Type	Gain
	1	FPC	1.16
	2	---	---
	3	---	---

Tested Circuit Insertion Loss	6.8	dB
Burst	ON TIME	1.275 msec
	OFF TIME	0.196 msec
	Ratio	86.70 %
Packet Type (Mode)	MCS0	mode

Equipment Type	Slave without TPC function
----------------	-------------------------------

Test Category :	5GHz Band Low-Power Data Communication System
Comprehensive operation test	
Use the DC Power Supply to adjust Voltate.	

6.1. TEST Results (Normal Voltage)

Measurement Frequency	MHz	5260	5280	5300	5320	Result
Channel Number	Ch.	52	56	60	64	----
Reading Frequency (TX1)	MHz	5260.013	5280.013	5300.013	5320.013	----
Frequency Tolerance (TX1)	ppm	2.3935	2.5492	2.4566	2.4474	PASS
Reading Frequency (TX2)	MHz	----	----	----	----	----
Frequency Tolerance (TX2)	ppm	----	----	----	----	----
Reading Frequency (TX3)	MHz	----	----	----	----	----
Frequency Tolerance (TX3)	ppm	----	----	----	----	----
Occupied Bandwidth (TX1)	MHz	18.02	17.87	17.95	18.02	PASS
Occupied Bandwidth (TX2)	MHz	----	----	----	----	----
Occupied Bandwidth (TX3)	MHz	----	----	----	----	----
RF Output Power (TX 1)	mW/MHz	2.323	2.344	2.333	2.371	----
RF Output Power (TX 2)	mW/MHz	----	----	----	----	----
RF Output Power (TX 3)	mW/MHz	----	----	----	----	----
RF Output Power (Max)	mW/MHz	2.323	2.344	2.333	2.371	PASS
RF Output Power Tolerance Max(TX1,TX2,TX3)	%	-17.05	-16.28	-16.67	-15.31	PASS
Real Total Output Power (TX 1)	dBm	15.04	15.24	14.93	14.91	<Reference>
Real Total Output Power (TX 2)	dBm	----	----	----	----	<Reference>
Real Total Output Power (TX 3)	dBm	----	----	----	----	<Reference>
Real Total Output Power (Max)	dBm	15.04	15.24	14.93	14.91	<Reference>

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6.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5260	5280	5300	5320	Result
Channel Number		Ch.	52	56	60	64	-----
Unwanted Emission Strength (TX 1)	30MHz - 5135MHz	μW/MHz	0.0173	0.0236	0.0242	0.0215	PASS
		MHz	4573.480	4982.200	4099.570	5055.670	-----
	5365MHz - 26GHz	μW/MHz	0.0249	0.0451	0.0483	0.0406	PASS
		MHz	6990.160	6941.320	6927.560	6909.670	-----
Unwanted Emission Strength (TX 2)	30MHz - 5135MHz	μW/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	5365MHz - 26GHz	μW/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
Unwanted Emission Strength (TX 3)	30MHz - 5135MHz	μW/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	5365MHz - 26GHz	μW/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
Unwanted Emission Strength (TX 1+2) or (TX 1+2+3)	30MHz - 5135MHz	μW/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	5365MHz - 26GHz	μW/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.						
Adjacent Channel Leakage Power (TX1)	CF -40MHz	dB	-59.53	-59.08	-59.22	-59.56	PASS
	CF -20MHz	dB	-38.59	-38.09	-37.99	-38.94	PASS
	CF +20MHz	dB	-38.61	-38.14	-37.78	-38.49	PASS
	CF +40MHz	dB	-59.37	-59.54	-59.55	-60.10	PASS
Adjacent Channel Leakage Power (TX2)	CF -40MHz	dB	-----	-----	-----	-----	-----
	CF -20MHz	dB	-----	-----	-----	-----	-----
	CF +20MHz	dB	-----	-----	-----	-----	-----
	CF +40MHz	dB	-----	-----	-----	-----	-----
Adjacent Channel Leakage Power (TX3)	CF -40MHz	dB	-----	-----	-----	-----	-----
	CF -20MHz	dB	-----	-----	-----	-----	-----
	CF +20MHz	dB	-----	-----	-----	-----	-----
	CF +40MHz	dB	-----	-----	-----	-----	-----

6.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5260	5280	5300	5320	Result
Channel Number		Ch.	52	56	60	64	-----
Out-Band Leakage Power (TX 1)	5135 - 5233.3MHz	μ W/MHz	0.044	0.107	0.054	0.051	PASS
		MHz	5207.940	5228.200	5231.240	5229.350	-----
	5233.3 - 5240MHz	μ W/MHz	0.558	0.054	0.052	0.044	PASS
		MHz	5238.870	5238.860	5235.760	5234.060	-----
	Limit	μ W/MHz	11.598	11.566	4.911	3.070	-----
	5240 - 5249MHz	μ W/MHz	45.604	0.081	0.134	0.059	PASS
		MHz	5248.670	5246.640	5248.400	5247.610	-----
	Limit	μ W/MHz	93.469	61.691	88.444	75.239	-----
	5249 - 5250MHz	μ W/MHz	258.226	0.239	0.079	0.061	PASS
		MHz	5249.970	5249.430	5249.370	5249.530	-----
	Limit	μ W/MHz	933.254	269.153	234.423	338.844	-----
	5350 - 5365MHz	μ W/MHz	0.033	0.041	0.105	0.116	PASS
		MHz	5351.330	5357.800	5351.580	5350.030	-----
Out-Band Leakage Power (TX 2)	5135 - 5233.3MHz	μ W/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	5233.3 - 5240MHz	μ W/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	Limit	μ W/MHz	-----	-----	-----	-----	-----
	5240 - 5249MHz	μ W/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	Limit	μ W/MHz	-----	-----	-----	-----	-----
	5249 - 5250MHz	μ W/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----
	Limit	μ W/MHz	-----	-----	-----	-----	-----
	5350 - 5365MHz	μ W/MHz	-----	-----	-----	-----	-----
		MHz	-----	-----	-----	-----	-----

6.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5260	5280	5300	5320	Result
Channel Number		Ch.	52	56	60	64	----
Secondarily emitted radio wave strength (RX 1)	Under 1GHz	nW	0.076384	0.062806	0.070146	0.067453	PASS
		MHz	876.011	972.704	875.950	894.076	----
	1 - 26GHz	nW	0.944061	1.261828	0.944061	1.016249	PASS
		MHz	17372.54	16678.03	20001.36	16604.59	----
Secondarily emitted radio wave strength (RX 2)	Under 1GHz	nW	----	----	----	----	----
		MHz	----	----	----	----	----
	1 - 26GHz	nW	----	----	----	----	----
		MHz	----	----	----	----	----
Secondarily emitted radio wave strength (RX 3)	Under 1GHz	nW	----	----	----	----	----
		MHz	----	----	----	----	----
	1 - 26GHz	nW	----	----	----	----	----
		MHz	----	----	----	----	----
Secondarily emitted radio wave strength (RX 1+2) or (RX 1+2+3)	Under 1GHz	nW	----	----	----	----	----
		1 - 26GHz	nW	----	----	----	----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.						
	Carrier Sensing Function		dBm	-51.00			
Link be controlled by Master device		Slave	Complies				PASS
Burst Length of Transmitted Signals		mSec	good				PASS
Interference Prevention Function		----	good				PASS

7. TEST RESULTS DATA

WLAN W53 Band - 802.11n-HT40

Environment of Test Room	Temperature	21-25 °C
	Humidity	49-51 %
Test Engineer	Orion Li	

Modulatoion Type:	OFDM
Type Emissions:	36M2G1D/D1D

Peak Antenna Gain	1.16	dBi
Declaration Output Power	1.40	mW/MHz
Declaration Output Power	1.461	dBm/MHz
E.I.R.P	2.621	dBm/MHz
Input Power Voltage	3.850	VDC

Antenna System	SISO Nss=1
----------------	-----------------------------

Antenna	No.	Type	Gain
	1	FPC	1.16
	2	---	---
	3	---	---

Tested Circuit Insertion Loss		6.8	dB
Burst	ON TIME	1.232	msec
	OFF TIME	0.196	msec
	Ratio	86.29	%
Packet Type (Mode)		MCS0	mode

Equipment Type	Slave without TPC function
----------------	-------------------------------

Test Category : 5GHz Band Low-Power Data Communication System			
Comprehensive operation test			
Use the DC Power Supply to adjust Voltate.			

7.1. TEST Results (Normal Voltage)

Measurement Frequency	MHz	5270	----	----	5310	Result
Channel Number	Ch.	54	----	----	62	----
Reading Frequency (TX1)	MHz	5270.013	----	----	5310.012	----
Frequency Tolerance (TX1)	ppm	2.4706	----	----	2.2072	PASS
Reading Frequency (TX2)	MHz	----	----	----	----	----
Frequency Tolerance (TX2)	ppm	----	----	----	----	----
Reading Frequency (TX3)	MHz	----	----	----	----	----
Frequency Tolerance (TX3)	ppm	----	----	----	----	----
Occupied Bandwidth (TX1)	MHz	36.18	----	----	36.18	PASS
Occupied Bandwidth (TX2)	MHz	----	----	----	----	----
Occupied Bandwidth (TX3)	MHz	----	----	----	----	----
RF Output Power (TX 1)	mW/MHz	1.117	----	----	1.164	----
RF Output Power (TX 2)	mW/MHz	----	----	----	----	----
RF Output Power (TX 3)	mW/MHz	----	----	----	----	----
RF Output Power (Max)	mW/MHz	1.117	----	----	1.164	PASS
RF Output Power Tolerance Max(TX1,TX2,TX3)	%	-20.22	----	----	-16.84	PASS
Real Total Output Power (TX 1)	dBm	15.23	----	----	14.89	<Reference>
Real Total Output Power (TX 2)	dBm	----	----	----	----	<Reference>
Real Total Output Power (TX 3)	dBm	----	----	----	----	<Reference>
Real Total Output Power (Max)	dBm	15.23	----	----	14.89	<Reference>

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7.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5270	----	----	5310	Result
Channel Number		Ch.	54	----	----	62	----
Unwanted Emission Strength (TX 1)	30MHz - 5100MHz	μW/MHz	0.0087	----	----	0.0206	PASS
		MHz	927.632	----	----	3942.550	----
	5400MHz - 26GHz	μW/MHz	0.0415	----	----	0.0370	PASS
		MHz	6965.89	----	----	6938.43	----
Unwanted Emission Strength (TX 2)	30MHz - 5100MHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5400MHz - 26GHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
Unwanted Emission Strength (TX 3)	30MHz - 5100MHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5400MHz - 26GHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
Unwanted Emission Strength (TX 1+2) or (TX 1+2+3)	30MHz - 5100MHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5400MHz - 26GHz	μW/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.						
	Adjacent Channel Leakage Power (TX1)	CF -80MHz	dB	-56.77	----	----	-56.92
CF -40MHz		dB	-39.40	----	----	-38.04	PASS
CF +40MHz		dB	-39.08	----	----	-38.84	PASS
CF +80MHz		dB	-57.18	----	----	-57.21	PASS
Adjacent Channel Leakage Power (TX2)	CF -80MHz	dB	----	----	----	----	----
	CF -40MHz	dB	----	----	----	----	----
	CF +40MHz	dB	----	----	----	----	----
	CF +80MHz	dB	----	----	----	----	----
Adjacent Channel Leakage Power (TX3)	CF -80MHz	dB	----	----	----	----	----
	CF -40MHz	dB	----	----	----	----	----
	CF +40MHz	dB	----	----	----	----	----
	CF +80MHz	dB	----	----	----	----	----

7.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5270	----	----	5310	Result
Channel Number		Ch.	54	----	----	62	----
Out-Band Leakage Power (TX 1)	5100 - 5221.6MHz	μ W/MHz	0.053	----	----	0.059	PASS
		MHz	5221.430	----	----	5206.210	----
	5221.6 - 5230MHz	μ W/MHz	0.274	----	----	0.047	PASS
		MHz	5228.670	----	----	5226.780	----
	Limit	μ W/MHz	7.780	----	----	7.580	----
	5230 - 5249MHz	μ W/MHz	4.634	----	----	0.113	PASS
		MHz	5248.930	----	----	5248.860	----
	Limit	μ W/MHz	49.662	----	----	49.326	----
	5249 - 5250MHz	μ W/MHz	13.092	----	----	0.059	PASS
		MHz	5249.880	----	----	5249.710	----
	Limit	μ W/MHz	379.289	----	----	256.431	----
	5350 - 5358.4MHz	μ W/MHz	0.011	----	----	1.104	PASS
		MHz	5350.290	----	----	5352.550	----
	5358.4 - 5400MHz	μ W/MHz	0.014	----	----	0.147	PASS
		MHz	5373.870	----	----	5361.150	----
Out-Band Leakage Power (TX 2)	5100 - 5221.6MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5221.6 - 5230MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	Limit	μ W/MHz	----	----	----	----	----
	5230 - 5249MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	Limit	μ W/MHz	----	----	----	----	----
	5249 - 5250MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	Limit	μ W/MHz	----	----	----	----	----
	5350 - 5358.4MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----
	5358.4 - 5400MHz	μ W/MHz	----	----	----	----	----
		MHz	----	----	----	----	----

7.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5270	----	----	5310	Result
Channel Number		Ch.	54	----	----	62	----
Secondarily emitted radio wave strength (RX 1)	Under 1GHz	nW	0.061660	----	----	0.070632	PASS
		MHz	263.081	----	----	866.493	----
	1 - 26GHz	nW	1.013911	----	----	0.974990	PASS
		MHz	15730.40	----	----	15354.63	----
Secondarily emitted radio wave strength (RX 2)	Under 1GHz	nW	----	----	----	----	----
		MHz	----	----	----	----	----
	1 - 26GHz	nW	----	----	----	----	----
		MHz	----	----	----	----	----
Secondarily emitted radio wave strength (RX 3)	Under 1GHz	nW	----	----	----	----	----
		MHz	----	----	----	----	----
	1 - 26GHz	nW	----	----	----	----	----
		MHz	----	----	----	----	----
Secondarily emitted radio wave strength (RX 1+2) or (RX 1+2+3)	Under 1GHz	nW	----	----	----	----	----
			----	----	----	----	----
	1 - 26GHz	nW	----	----	----	----	----
			----	----	----	----	----
It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.							
Carrier Sensing Function		dBm	-51.00				PASS
Link be controlled by Master device		Slave	Complies				PASS
Burst Length of Transmitted Signals		mSec	good				PASS
Interference Prevention Function		----	good				PASS

8. TEST RESULTS DATA

WLAN W53 Band - 802.11ac-VHT80

Environment of Test Room	Temperature	21-25 °C
	Humidity	49-51 %
Test Engineer	Orion Li	

Modulatoion Type:	OFDM
Type Emissions:	75M0G1D/D1D

Peak Antenna Gain	1.16	dBi
Declaration Output Power	0.70	mW/MHz
Declaration Output Power	-1.549	dBm/MHz
E.I.R.P	-0.389	dBm/MHz
Input Power Voltage	3.850	VDC

Antenna System	SISO Nss=1
----------------	-----------------------------

Antenna	No.	Type	Gain
	1	FPC	1.16
	2	---	---
	3	---	---

Tested Circuit Insertion Loss		6.8	dB
Burst	ON TIME	0.249	msec
	OFF TIME	0.199	msec
	Ratio	55.66	%
Packet Type (Mode)		MCS0	mode

Equipment Type	Slave without TPC function
----------------	-------------------------------

Test Category : 5GHz Band Low-Power Data Communication System			
Comprehensive operation test			
Use the DC Power Supply to adjust Voltate.			

8.1. TEST Results (Normal Voltage)

Measurement Frequency	MHz	5290	----	Result
Channel Number	Ch.	58	----	----
Reading Frequency (TX1)	MHz	5290.013	----	----
Frequency Tolerance (TX1)	ppm	2.5444	----	PASS
Reading Frequency (TX2)	MHz	----	----	----
Frequency Tolerance (TX2)	ppm	----	----	----
Reading Frequency (TX3)	MHz	----	----	----
Frequency Tolerance (TX3)	ppm	----	----	----
Occupied Bandwidth (TX1)	MHz	74.96	----	PASS
Occupied Bandwidth (TX2)	MHz	----	----	----
Occupied Bandwidth (TX3)	MHz	----	----	----
RF Output Power (TX 1)	mW/MHz	0.599	----	----
RF Output Power (TX 2)	mW/MHz	----	----	----
RF Output Power (TX 3)	mW/MHz	----	----	----
RF Output Power (Max)	mW/MHz	0.599	----	PASS
RF Output Power Tolerance Max(TX1,TX2,TX3)	%	-14.43	----	PASS
Real Total Output Power (TX 1)	dBm	14.84	----	<Reference>
Real Total Output Power (TX 2)	dBm	----	----	<Reference>
Real Total Output Power (TX 3)	dBm	----	----	<Reference>
Real Total Output Power (Max)	dBm	14.84	----	<Reference>

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8.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5290	----	Result
Channel Number		Ch.	58	----	----
Unwanted Emission Strength (TX 1)	30MHz - 5020MHz	μW/MHz	0.0198	-----	PASS
		MHz	4133.310	-----	-----
	5480MHz - 26GHz	μW/MHz	0.0375	-----	PASS
		MHz	6965.94	-----	-----
Unwanted Emission Strength (TX 2)	30MHz - 5020MHz	μW/MHz	-----	-----	-----
		MHz	-----	-----	-----
	5480MHz - 26GHz	μW/MHz	-----	-----	-----
		MHz	-----	-----	-----
Unwanted Emission Strength (TX 3)	30MHz - 5020MHz	μW/MHz	-----	-----	-----
		MHz	-----	-----	-----
	5480MHz - 26GHz	μW/MHz	-----	-----	-----
		MHz	-----	-----	-----
Unwanted Emission Strength (TX 1+2) or (TX 1+2+3)	30MHz - 5020MHz	μW/MHz	-----	-----	-----
		MHz	-----	-----	-----
	5480MHz - 26GHz	μW/MHz	-----	-----	-----
		MHz	-----	-----	-----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.				
ACLR (TX1)	CF -80MHz	dB	-43.36	-----	PASS
	CF +80MHz	dB	-41.66	-----	PASS
ACLR (TX2)	CF -80MHz	dB	-----	-----	-----
	CF +80MHz	dB	-----	-----	-----
ACLR (TX3)	CF -80MHz	dB	-----	-----	-----
	CF +80MHz	dB	-----	-----	-----

8.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5290	----	Result
Channel Number		Ch.	58	----	----
Out-Band Leakage Power (TX 1)	5020 - 5203.3MHz	μ W/MHz	0.077	----	PASS
		MHz	5200.070	----	----
	5203.3 - 5210MHz	μ W/MHz	0.078	----	PASS
		MHz	5207.100	----	----
	Limit	μ W/MHz	3.243	----	----
	5210 - 5249MHz	μ W/MHz	10.789	----	PASS
		MHz	5248.980	----	----
	Limit	μ W/MHz	24.976	----	----
	5249 - 5250MHz	μ W/MHz	24.660	----	PASS
		MHz	5249.960	----	----
	Limit	μ W/MHz	228.003	----	----
	5350 - 5376.8MHz	μ W/MHz	0.405	----	PASS
		MHz	5363.960	----	----
	5376.8 - 5480MHz	μ W/MHz	0.285	----	PASS
		MHz	5379.260	----	----
Out-Band Leakage Power (TX 2)	5020 - 5203.3MHz	μ W/MHz	----	----	PASS
		MHz	----	----	----
	5203.3 - 5210MHz	μ W/MHz	----	----	PASS
		MHz	----	----	----
	Limit	μ W/MHz	----	----	----
	5210 - 5249MHz	μ W/MHz	----	----	PASS
		MHz	----	----	----
	Limit	μ W/MHz	----	----	----
	5249 - 5250MHz	μ W/MHz	----	----	PASS
		MHz	----	----	----
	Limit	μ W/MHz	----	----	----
	5350 - 5376.8MHz	μ W/MHz	----	----	PASS
		MHz	----	----	----
	5376.8 - 5480MHz	μ W/MHz	----	----	PASS
		MHz	----	----	----

8.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5290	----	Result
Channel Number		Ch.	58	----	----
Secondarily emitted radio wave strength (RX 1)	Under 1GHz	nW	0.070469	----	PASS
		MHz	837.272	----	----
	1 - 26GHz	nW	1.039920	----	PASS
		MHz	15699.93	----	----
Secondarily emitted radio wave strength (RX 2)	Under 1GHz	nW	----	----	----
		MHz	----	----	----
	1 - 26GHz	nW	----	----	----
		MHz	----	----	----
Secondarily emitted radio wave strength (RX 3)	Under 1GHz	nW	----	----	----
		MHz	----	----	----
	1 - 26GHz	nW	----	----	----
		MHz	----	----	----
Secondarily emitted radio wave strength (RX 1+2) or (RX 1+2+3)	Under 1GHz	nW	----	----	----
			----	----	----
	1 - 26GHz	nW	----	----	----
			----	----	----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.				
Carrier Sensing Function		dBm	-51.00		PASS
Link be controlled by Master device		Slave	Complies		PASS
Burst Length of Transmitted Signals		mSec	good		PASS
Interference Prevention Function		----	good		PASS

9. TEST RESULTS DATA

WLAN W56 Band - 802.11a

Environment of Test Room	Temperature	21-25 °C
	Humidity	49-51 %
Test Engineer	Orion Li	

Modulatoion Type:	OFDM
Type Emissions:	16M9G1D/D1D

Peak Antenna Gain	1.39	dBi
Declaration Output Power	2.70	mW/MHz
Declaration Output Power	4.314	dBm/MHz
E.I.R.P	5.704	dBm/MHz
Input Power Voltage	3.850	VDC

Antenna System	SISO Nss=1
----------------	-----------------------------

Antenna	No.	Type	Gain
	1	FPC	1.39
	2	---	---
	3	---	---

Tested Circuit Insertion Loss		6.8	dB
Burst	ON TIME	1.362	msec
	OFF TIME	0.196	msec
	Ratio	87.44	%
Packet Type (Mode)		6Mbps	mode

Equipment Type	Slave without TPC function
----------------	-------------------------------

Test Category : 5GHz Band Low-Power Data Communication System			
Comprehensive operation test			
Use the DC Power Supply to adjust Voltate.			

9.1. TEST Results (Normal Voltage)

Measurement Frequency	MHz	5500	5580	5700	Result
Channel Number	Ch.	100	116	140	----
Reading Frequency (TX1)	MHz	5500.013	5580.013	5700.014	----
Frequency Tolerance (TX1)	ppm	2.4473	2.4122	2.4368	PASS
Reading Frequency (TX2)	MHz	----	----	----	----
Frequency Tolerance (TX2)	ppm	----	----	----	----
Reading Frequency (TX3)	MHz	----	----	----	----
Frequency Tolerance (TX3)	ppm	----	----	----	----
Occupied Bandwidth (TX1)	MHz	16.93	16.93	16.64	PASS
Occupied Bandwidth (TX2)	MHz	----	----	----	----
Occupied Bandwidth (TX3)	MHz	----	----	----	----
RF Output Power (TX 1)	mW/MHz	2.490	2.554	2.662	----
RF Output Power (TX 2)	mW/MHz	----	----	----	----
RF Output Power (TX 3)	mW/MHz	----	----	----	----
RF Output Power (Max)	mW/MHz	2.490	2.554	2.662	PASS
RF Output Power Tolerance Max(TX1,TX2,TX3)	%	-7.76	-5.39	-1.39	PASS
Real Total Output Power (TX 1)	dBm	15.09	15.07	15.34	<Reference>
Real Total Output Power (TX 2)	dBm	----	----	----	<Reference>
Real Total Output Power (TX 3)	dBm	----	----	----	<Reference>
Real Total Output Power (Max)	dBm	15.09	15.07	15.34	<Reference>

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9.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5500	5580	5700	Result
Channel Number		Ch.	100	116	140	-----
Unwanted Emission Strength (TX 1)	30MHz - 5455MHz	μW/MHz	0.0261	0.0214	0.0219	PASS
		MHz	5447.760	4995.690	5052.480	-----
	5745MHz - 26GHz	μW/MHz	0.0458	0.0652	0.0444	PASS
		MHz	6919.41	6989.63	6839.07	-----
Unwanted Emission Strength (TX 2)	30MHz - 5455MHz	μW/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5745MHz - 26GHz	μW/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
Unwanted Emission Strength (TX 3)	30MHz - 5455MHz	μW/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5745MHz - 26GHz	μW/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
Unwanted Emission Strength (TX 1+2) or (TX 1+2+3)	30MHz - 5455MHz	μW/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5745MHz - 26GHz	μW/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.						
Adjacent Channel Leakage Power (TX1)	CF -40MHz	dB	-59.53	-59.13	-58.96	PASS
	CF -20MHz	dB	-35.76	-36.11	-35.77	PASS
	CF +20MHz	dB	-36.22	-35.99	-36.75	PASS
	CF +40MHz	dB	-59.51	-59.08	-58.92	PASS
Adjacent Channel Leakage Power (TX2)	CF -40MHz	dB	-----	-----	-----	-----
	CF -20MHz	dB	-----	-----	-----	-----
	CF +20MHz	dB	-----	-----	-----	-----
	CF +40MHz	dB	-----	-----	-----	-----
Adjacent Channel Leakage Power (TX3)	CF -40MHz	dB	-----	-----	-----	-----
	CF -20MHz	dB	-----	-----	-----	-----
	CF +20MHz	dB	-----	-----	-----	-----
	CF +40MHz	dB	-----	-----	-----	-----

9.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5500	5580	5700	Result
Channel Number		Ch.	100	116	140	-----
Out-Band Leakage Power (TX 1)	5455 - 5460MHz	μ W/MHz	0.051	0.046	0.053	PASS
		MHz	5458.400	5456.260	5455.530	-----
	5460 - 5470MHz	μ W/MHz	0.048	0.046	0.045	PASS
		MHz	5463.360	5466.500	5466.020	-----
	5725 - 5740MHz	μ W/MHz	0.054	0.083	0.340	PASS
		MHz	5733.610	5725.940	5729.370	-----
	5740 - 5745MHz	μ W/MHz	0.059	0.060	0.060	PASS
		MHz	5743.800	5744.290	5742.280	-----
Out-Band Leakage Power (TX 2)	5455 - 5460MHz	μ W/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5460 - 5470MHz	μ W/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5725 - 5740MHz	μ W/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5740 - 5745MHz	μ W/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
Out-Band Leakage Power (TX 3)	5455 - 5460MHz	μ W/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5460 - 5470MHz	μ W/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5725 - 5740MHz	μ W/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5740 - 5745MHz	μ W/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
Out-Band Leakage Power (TX 1+2) or (TX 1+2+3)	5455 - 5460MHz	μ W/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5460 - 5470MHz	μ W/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5725 - 5740MHz	μ W/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5740 - 5745MHz	μ W/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.					

9.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5500	5580	5700	Result
Channel Number		Ch.	100	116	140	----
Secondarily emitted radio wave strength (RX 1)	Under 1GHz	nW	0.067608	0.064417	0.065615	PASS
		MHz	876.496	923.175	732.637	----
	1 - 26GHz	nW	1.122018	1.099006	1.064143	PASS
		MHz	24244.20	16590.53	16558.50	----
Secondarily emitted radio wave strength (RX 2)	Under 1GHz	nW	----	----	----	----
		MHz	----	----	----	----
	1 - 26GHz	nW	----	----	----	----
		MHz	----	----	----	----
Secondarily emitted radio wave strength (RX 3)	Under 1GHz	nW	----	----	----	----
		MHz	----	----	----	----
	1 - 26GHz	nW	----	----	----	----
		MHz	----	----	----	----
Secondarily emitted radio wave strength (RX 1+2) or (RX 1+2+3)	Under 1GHz	nW	----	----	----	----
			----	----	----	----
	1 - 26GHz	nW	----	----	----	----
			----	----	----	----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.					
Carrier Sensing Function		dBm	-51.00			PASS
Link be controlled by Master device		Slave	Complies			PASS
Burst Length of Transmitted Signals		mSec	good			PASS
Interference Prevention Function		----	good			PASS

10. TEST RESULTS DATA

WLAN W56 Band - 802.11n-HT20

Environment of Test Room	Temperature	21-25 °C
	Humidity	49-51 %
Test Engineer	Orion Li	

Modulatoion Type:	OFDM
Type Emissions:	18M2G1D/D1D

Peak Antenna Gain	1.39	dBi
Declaration Output Power	2.70	mW/MHz
Declaration Output Power	4.314	dBm/MHz
E.I.R.P	5.704	dBm/MHz
Input Power Voltage	3.850	VDC

Antenna System	SISO Nss=1
----------------	-----------------------------

Antenna	No.	Type	Gain
	1	FPC	1.39
	2	---	---
	3	---	---

Tested Circuit Insertion Loss		6.8	dB
Burst	ON TIME	1.275	msec
	OFF TIME	0.196	msec
	Ratio	86.70	%
Packet Type (Mode)		MCS0	mode

Equipment Type	Slave without TPC function
----------------	-------------------------------

Test Category :	5GHz Band Low-Power Data Communication System
Comprehensive operation test	
Use the DC Power Supply to adjust Voltate.	

10.1. TEST Results (Normal Voltage)

Measurement Frequency	MHz	5500	5580	5700	Result
Channel Number	Ch.	100	116	140	----
Reading Frequency (TX1)	MHz	5500.014	5580.014	5700.013	----
Frequency Tolerance (TX1)	ppm	2.5255	2.4892	2.3614	PASS
Reading Frequency (TX2)	MHz	----	----	----	----
Frequency Tolerance (TX2)	ppm	----	----	----	----
Reading Frequency (TX3)	MHz	----	----	----	----
Frequency Tolerance (TX3)	ppm	----	----	----	----
Occupied Bandwidth (TX1)	MHz	18.16	18.02	18.16	PASS
Occupied Bandwidth (TX2)	MHz	----	----	----	----
Occupied Bandwidth (TX3)	MHz	----	----	----	----
RF Output Power (TX 1)	mW/MHz	2.312	2.301	2.506	----
RF Output Power (TX 2)	mW/MHz	----	----	----	----
RF Output Power (TX 3)	mW/MHz	----	----	----	----
RF Output Power (Max)	mW/MHz	2.312	2.301	2.506	PASS
RF Output Power Tolerance Max(TX1,TX2,TX3)	%	-14.37	-14.76	-7.18	PASS
Real Total Output Power (TX 1)	dBm	15.20	15.11	15.23	<Reference>
Real Total Output Power (TX 2)	dBm	----	----	----	<Reference>
Real Total Output Power (TX 3)	dBm	----	----	----	<Reference>
Real Total Output Power (Max)	dBm	15.20	15.11	15.23	<Reference>

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10.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5500	5580	5700	Result
Channel Number		Ch.	100	116	140	-----
Unwanted Emission Strength (TX 1)	30MHz - 5455MHz	μW/MHz	0.0391	0.0216	0.0206	PASS
		MHz	5448.880	5233.980	5081.430	-----
	5745MHz - 26GHz	μW/MHz	0.0402	0.0414	0.0438	PASS
		MHz	6440.06	6240.22	6677.71	-----
Unwanted Emission Strength (TX 2)	30MHz - 5455MHz	μW/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5745MHz - 26GHz	μW/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
Unwanted Emission Strength (TX 3)	30MHz - 5455MHz	μW/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5745MHz - 26GHz	μW/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
Unwanted Emission Strength (TX 1+2) or (TX 1+2+3)	30MHz - 5455MHz	μW/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5745MHz - 26GHz	μW/MHz	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.					
	Adjacent Channel Leakage Power (TX1)	CF -40MHz	dB	-59.10	-59.09	-58.97
CF -20MHz		dB	-34.81	-35.21	-34.68	PASS
CF +20MHz		dB	-35.46	-35.95	-35.06	PASS
CF +40MHz		dB	-59.32	-59.06	-58.61	PASS
Adjacent Channel Leakage Power (TX2)	CF -40MHz	dB	-----	-----	-----	-----
	CF -20MHz	dB	-----	-----	-----	-----
	CF +20MHz	dB	-----	-----	-----	-----
	CF +40MHz	dB	-----	-----	-----	-----
Adjacent Channel Leakage Power (TX3)	CF -40MHz	dB	-----	-----	-----	-----
	CF -20MHz	dB	-----	-----	-----	-----
	CF +20MHz	dB	-----	-----	-----	-----
	CF +40MHz	dB	-----	-----	-----	-----

10.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5500	5580	5700	Result
Channel Number		Ch.	100	116	140	-----
Out-Band Leakage Power (TX 1)	5455 - 5460MHz	$\mu\text{W}/\text{MHz}$	0.056	0.044	0.045	PASS
		MHz	5459.520	5459.670	5457.090	-----
	5460 - 5470MHz	$\mu\text{W}/\text{MHz}$	0.060	0.048	0.062	PASS
		MHz	5465.210	5468.890	5465.780	-----
	5725 - 5740MHz	$\mu\text{W}/\text{MHz}$	0.062	0.064	0.280	PASS
		MHz	5735.710	5735.840	5726.170	-----
	5740 - 5745MHz	$\mu\text{W}/\text{MHz}$	0.065	0.058	0.067	PASS
		MHz	5740.880	5740.650	5741.310	-----
Out-Band Leakage Power (TX 2)	5455 - 5460MHz	$\mu\text{W}/\text{MHz}$	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5460 - 5470MHz	$\mu\text{W}/\text{MHz}$	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5725 - 5740MHz	$\mu\text{W}/\text{MHz}$	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5740 - 5745MHz	$\mu\text{W}/\text{MHz}$	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
Out-Band Leakage Power (TX 3)	5455 - 5460MHz	$\mu\text{W}/\text{MHz}$	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5460 - 5470MHz	$\mu\text{W}/\text{MHz}$	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5725 - 5740MHz	$\mu\text{W}/\text{MHz}$	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5740 - 5745MHz	$\mu\text{W}/\text{MHz}$	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
Out-Band Leakage Power (TX 1+2) or (TX 1+2+3)	5455 - 5460MHz	$\mu\text{W}/\text{MHz}$	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5460 - 5470MHz	$\mu\text{W}/\text{MHz}$	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5725 - 5740MHz	$\mu\text{W}/\text{MHz}$	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	5740 - 5745MHz	$\mu\text{W}/\text{MHz}$	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.					

10.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5500	5580	5700	Result
Channel Number		Ch.	100	116	140	-----
Secondarily emitted radio wave strength (RX 1)	Under 1GHz	nW	0.068549	0.067298	0.059293	PASS
		MHz	832.514	568.985	947.697	-----
	1 - 26GHz	nW	1.247384	1.233105	1.076465	PASS
		MHz	20145.89	15794.46	17093.64	-----
Secondarily emitted radio wave strength (RX 2)	Under 1GHz	nW	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	1 - 26GHz	nW	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
Secondarily emitted radio wave strength (RX 3)	Under 1GHz	nW	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
	1 - 26GHz	nW	-----	-----	-----	-----
		MHz	-----	-----	-----	-----
Secondarily emitted radio wave strength (RX 1+2) or (RX 1+2+3)	Under 1GHz	nW	-----	-----	-----	-----
			-----	-----	-----	-----
	1 - 26GHz	nW	-----	-----	-----	-----
			-----	-----	-----	-----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.					
Carrier Sensing Function		dBm	-51.00			PASS
Link be controlled by Master device		Slave	Complies			PASS
Burst Length of Transmitted Signals		mSec	good			PASS
Interference Prevention Function		-----	good			PASS

11. TEST RESULTS DATA

WLAN W56 Band - 802.11n-HT40

Environment of Test Room	Temperature	21-25 °C
	Humidity	49-51 %
Test Engineer	Orion Li	

Modulatoion Type:	OFDM
Type Emissions:	36M2G1D/D1D

Peak Antenna Gain	1.39	dBi
Declaration Output Power	1.40	mW/MHz
Declaration Output Power	1.461	dBm/MHz
E.I.R.P	2.851	dBm/MHz
Input Power Voltage	3.850	VDC

Antenna System	SISO Nss=1
----------------	-----------------------------

Antenna	No.	Type	Gain
	1	FPC	1.39
	2	---	---
	3	---	---

Tested Circuit Insertion Loss		6.8	dB
Burst	ON TIME	1.232	msec
	OFF TIME	0.196	msec
	Ratio	86.29	%
Packet Type (Mode)		MCS0	mode

Equipment Type	Slave without TPC function
----------------	-------------------------------

Test Category : 5GHz Band Low-Power Data Communication System			
Comprehensive operation test			
Use the DC Power Supply to adjust Voltate.			

11.1. TEST Results (Normal Voltage)

Measurement Frequency	MHz	5510	5550	5670	Result
Channel Number	Ch.	102	110	134	-----
Reading Frequency (TX1)	MHz	5510.014	5550.015	5670.014	-----
Frequency Tolerance (TX1)	ppm	2.5209	2.7387	2.4497	PASS
Reading Frequency (TX2)	MHz	-----	-----	-----	-----
Frequency Tolerance (TX2)	ppm	-----	-----	-----	-----
Reading Frequency (TX3)	MHz	-----	-----	-----	-----
Frequency Tolerance (TX3)	ppm	-----	-----	-----	-----
Occupied Bandwidth (TX1)	MHz	36.03	36.18	36.18	PASS
Occupied Bandwidth (TX2)	MHz	-----	-----	-----	-----
Occupied Bandwidth (TX3)	MHz	-----	-----	-----	-----
RF Output Power (TX 1)	mW/MHz	1.250	1.300	1.200	-----
RF Output Power (TX 2)	mW/MHz	-----	-----	-----	-----
RF Output Power (TX 3)	mW/MHz	-----	-----	-----	-----
RF Output Power (Max)	mW/MHz	1.250	1.300	1.200	PASS
RF Output Power Tolerance Max(TX1,TX2,TX3)	%	-10.69	-7.13	-14.32	PASS
Real Total Output Power (TX 1)	dBm	15.08	14.90	15.18	<Reference>
Real Total Output Power (TX 2)	dBm	-----	-----	-----	<Reference>
Real Total Output Power (TX 3)	dBm	-----	-----	-----	<Reference>
Real Total Output Power (Max)	dBm	15.08	14.90	15.18	<Reference>

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11.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5510	5550	5670	Result
Channel Number		Ch.	102	110	134	----
Unwanted Emission Strength (TX 1)	30MHz - 5420MHz	μW/MHz	0.0231	0.0221	0.0204	PASS
		MHz	5303.450	5080.300	5107.920	----
	5760MHz - 26GHz	μW/MHz	0.0463	0.0389	0.0408	PASS
		MHz	6913.30	6917.35	6980.09	----
Unwanted Emission Strength (TX 2)	30MHz - 5420MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
	5760MHz - 26GHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
Unwanted Emission Strength (TX 3)	30MHz - 5420MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
	5760MHz - 26GHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
Unwanted Emission Strength (TX 1+2) or (TX 1+2+3)	30MHz - 5420MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
	5760MHz - 26GHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.						
Adjacent Channel Leakage Power (TX1)	CF -80MHz	dB	-56.57	-56.82	-56.54	PASS
	CF -40MHz	dB	-38.22	-38.42	-39.01	PASS
	CF +40MHz	dB	-38.88	-39.85	-39.02	PASS
	CF +80MHz	dB	-57.00	-57.08	-56.68	PASS
Adjacent Channel Leakage Power (TX2)	CF -80MHz	dB	----	----	----	----
	CF -40MHz	dB	----	----	----	----
	CF +40MHz	dB	----	----	----	----
	CF +80MHz	dB	----	----	----	----
Adjacent Channel Leakage Power (TX3)	CF -80MHz	dB	----	----	----	----
	CF -40MHz	dB	----	----	----	----
	CF +40MHz	dB	----	----	----	----
	CF +80MHz	dB	----	----	----	----

11.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5510	5550	5670	Result
Channel Number		Ch.	102	110	134	----
Out-Band Leakage Power (TX 1)	5420 - 5460MHz	μW/MHz	0.083	0.077	0.055	PASS
		MHz	5454.730	5446.290	5441.010	----
	5460 - 5470MHz	μW/MHz	0.582	0.054	0.057	PASS
		MHz	5468.920	5463.290	5468.370	----
	5725 - 5760MHz	μW/MHz	0.063	0.068	0.178	PASS
		MHz	5729.840	5750.060	5729.290	----
Out-Band Leakage Power (TX 2)	5420 - 5460MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
	5460 - 5470MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
	5725 - 5760MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
Out-Band Leakage Power (TX 3)	5420 - 5460MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
	5460 - 5470MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
	5725 - 5760MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
Out-Band Leakage Power (TX 1+2) or (TX 1+2+3)	5420 - 5460MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
	5460 - 5470MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
	5725 - 5760MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.					

11.1. TEST Results (Normal Voltage)

Measurement Frequency		MHz	5510	5550	5670	Result
Channel Number		Ch.	102	110	134	----
Secondarily emitted radio wave strength (RX 1)	Under 1GHz	nW	0.060395	0.065464	0.081283	PASS
		MHz	522.881	346.528	978.070	----
	1 - 26GHz	nW	1.482518	1.114295	1.086426	PASS
		MHz	16146.79	20027.14	16881.14	----
Secondarily emitted radio wave strength (RX 2)	Under 1GHz	nW	----	----	----	----
		MHz	----	----	----	----
	1 - 26GHz	nW	----	----	----	----
		MHz	----	----	----	----
Secondarily emitted radio wave strength (RX 3)	Under 1GHz	nW	----	----	----	----
		MHz	----	----	----	----
	1 - 26GHz	nW	----	----	----	----
		MHz	----	----	----	----
Secondarily emitted radio wave strength (RX 1+2) or (RX 1+2+3)	Under 1GHz	nW	----	----	----	----
			----	----	----	----
	1 - 26GHz	nW	----	----	----	----
			----	----	----	----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.					
Carrier Sensing Function		dBm	-51.00			PASS
Link be controlled by Master device		Slave	Complies			PASS
Burst Length of Transmitted Signals		mSec	good			PASS
Interference Prevention Function		----	good			PASS

12. TEST RESULTS DATA

WLAN W56 Band - 802.11ac-VHT80

Environment of Test Room	Temperature	21-25 °C
	Humidity	49-51 %
Test Engineer	Orion Li	

Modulatoion Type:	OFDM
Type Emissions:	75M0G1D/D1D

Peak Antenna Gain	1.39	dBi
Declaration Output Power	0.70	mW/MHz
Declaration Output Power	-1.549	dBm/MHz
E.I.R.P	-0.159	dBm/MHz
Input Power Voltage	3.850	VDC

Antenna System	SISO Nss=1
----------------	-----------------------------

Antenna	No.	Type	Gain
	1	FPC	1.39
	2	---	---
	3	---	---

Tested Circuit Insertion Loss		6.8	dB
Burst	ON TIME	0.249	msec
	OFF TIME	0.199	msec
	Ratio	55.66	%
Packet Type (Mode)		MCS0	mode

Equipment Type	Slave without TPC function
----------------	-------------------------------

Test Category : 5GHz Band Low-Power Data Communication System			
Comprehensive operation test			
Use the DC Power Supply to adjust Voltate.			

12.1. TEST Results (Noraml Voltage)

Measurement Frequency	MHz	5530	----	5610	Result
Channel Number	Ch.	106	----	122	----
Reading Frequency (TX1)	MHz	5530.015	----	5610.010	----
Frequency Tolerance (TX1)	ppm	2.7486	----	1.7807	PASS
Reading Frequency (TX2)	MHz	----	----	----	----
Frequency Tolerance (TX2)	ppm	----	----	----	----
Reading Frequency (TX3)	MHz	----	----	----	----
Frequency Tolerance (TX3)	ppm	----	----	----	----
Occupied Bandwidth (TX1)	MHz	74.96	----	74.96	PASS
Occupied Bandwidth (TX2)	MHz	----	----	----	----
Occupied Bandwidth (TX3)	MHz	----	----	----	----
RF Output Power (TX 1)	mW/MHz	0.678	----	0.686	----
RF Output Power (TX 2)	mW/MHz	----	----	----	----
RF Output Power (TX 3)	mW/MHz	----	----	----	----
RF Output Power (Max)	mW/MHz	0.678	----	0.686	PASS
RF Output Power Tolerance Max(TX1,TX2,TX3)	%	-3.10	----	-1.98	PASS
Real Total Output Power (TX 1)	dBm	15.16	----	14.96	<Reference>
Real Total Output Power (TX 2)	dBm	----	----	----	<Reference>
Real Total Output Power (TX 3)	dBm	----	----	----	<Reference>
Real Total Output Power (Max)	dBm	15.16	----	14.96	<Reference>

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12.1. TEST Results (Noraml Voltage)

Measurement Frequency		MHz	5530	----	5610	Result
Channel Number		Ch.	106	----	122	----
Unwanted Emission Strength (TX 1)	30MHz - 5340MHz	μW/MHz	0.0238	----	0.0163	PASS
		MHz	4163.610	----	5317.760	----
	5860MHz - 26GHz	μW/MHz	0.0504	----	0.0369	PASS
		MHz	6630.33	----	6839.11	----
Unwanted Emission Strength (TX 2)	30MHz - 5340MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
	5860MHz - 26GHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
Unwanted Emission Strength (TX 3)	30MHz - 5340MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
	5860MHz - 26GHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
Unwanted Emission Strength (TX 1+2) or (TX 1+2+3)	30MHz - 5340MHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
	5860MHz - 26GHz	μW/MHz	----	----	----	----
		MHz	----	----	----	----
It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.						
ACLR (TX1)	CF -80MHz	dB	-41.57	----	-39.10	PASS
	CF +80MHz	dB	-41.02	----	-38.64	PASS
ACLR (TX2)	CF -80MHz	dB	----	----	----	----
	CF +80MHz	dB	----	----	----	----
ACLR (TX3)	CF -80MHz	dB	----	----	----	----
	CF +80MHz	dB	----	----	----	----

12.1. TEST Results (Noraml Voltage)

Measurement Frequency		MHz	5530	----	5690	Result
Channel Number		Ch.	106	----	138	----
Out-Band Leakage Power (TX 1)	5340 - 5460MHz	μ W/MHz	0.167	----	0.039	PASS
		MHz	5459.900	----	5398.620	----
	5460 - 5469.5MHz	μ W/MHz	0.416	----	0.052	PASS
		MHz	5468.360	----	5464.410	----
	5469.5 - 5470MHz	μ W/MHz	0.462	----	0.056	PASS
		MHz	5469.910	----	5469.900	----
	5725 - 5860MHz	μ W/MHz	0.071	----	0.060	PASS
		MHz	5832.380	----	5812.070	----
Out-Band Leakage Power (TX 2)	5340 - 5460MHz	μ W/MHz	----	----	----	----
		MHz	----	----	----	----
	5460 - 5469.5MHz	μ W/MHz	----	----	----	----
		MHz	----	----	----	----
	5469.5 - 5470MHz	μ W/MHz	----	----	----	----
		MHz	----	----	----	----
	5725 - 5860MHz	μ W/MHz	----	----	----	----
		MHz	----	----	----	----
Out-Band Leakage Power (TX 3)	5340 - 5460MHz	μ W/MHz	----	----	----	----
		MHz	----	----	----	----
	5460 - 5469.5MHz	μ W/MHz	----	----	----	----
		MHz	----	----	----	----
	5469.5 - 5470MHz	μ W/MHz	----	----	----	----
		MHz	----	----	----	----
	5725 - 5860MHz	μ W/MHz	----	----	----	----
		MHz	----	----	----	----
Out-Band Leakage Power (TX 1+2) or (TX 1+2+3)	5340 - 5460MHz	μ W/MHz	----	----	----	----
		MHz	----	----	----	----
	5460 - 5469.5MHz	μ W/MHz	----	----	----	----
		MHz	----	----	----	----
	5469.5 - 5470MHz	μ W/MHz	----	----	----	----
		MHz	----	----	----	----
	5725 - 5860MHz	μ W/MHz	----	----	----	----
		MHz	----	----	----	----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.					

12.1. TEST Results (Noraml Voltage)

Measurement Frequency		MHz	5530	----	5610	Result
Channel Number		Ch.	106	----	122	----
Secondarily emitted radio wave strength (RX 1)	Under 1GHz	nW	0.059429	----	0.061944	PASS
		MHz	961.398	----	855.611	----
	1 - 26GHz	nW	1.230269	----	0.827942	PASS
		MHz	19970.89	----	19905.27	----
Secondarily emitted radio wave strength (RX 2)	Under 1GHz	nW	----	----	----	----
		MHz	----	----	----	----
	1 - 26GHz	nW	----	----	----	----
		MHz	----	----	----	----
Secondarily emitted radio wave strength (RX 3)	Under 1GHz	nW	----	----	----	----
		MHz	----	----	----	----
	1 - 26GHz	nW	----	----	----	----
		MHz	----	----	----	----
Secondarily emitted radio wave strength (RX 1+2) or (RX 1+2+3)	Under 1GHz	nW	----	----	----	----
			----	----	----	----
	1 - 26GHz	nW	----	----	----	----
			----	----	----	----
	It should be added up all spurious measurement values within "Reference Bandwidth(=1MHz)" of the same frequency.					
Carrier Sensing Function		dBm	-51			PASS
Link be controlled by Master device		Slave	Complies			PASS
Burst Length of Transmitted Signals		mSec	good			PASS
Interference Prevention Function		----	good			PASS

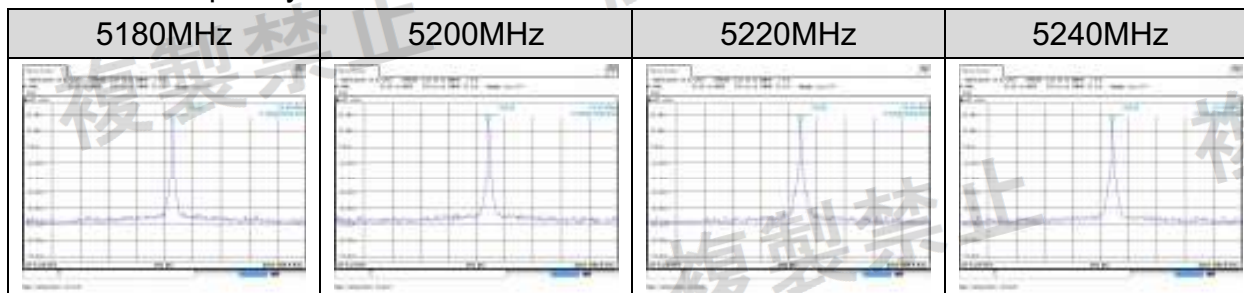


Appendix C. Test Plots

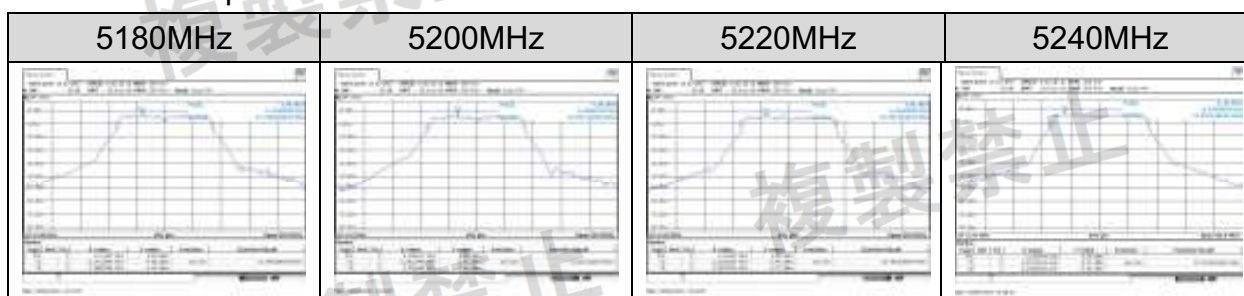
C.1. W52 Band_NV

C.1.1. 802.11a

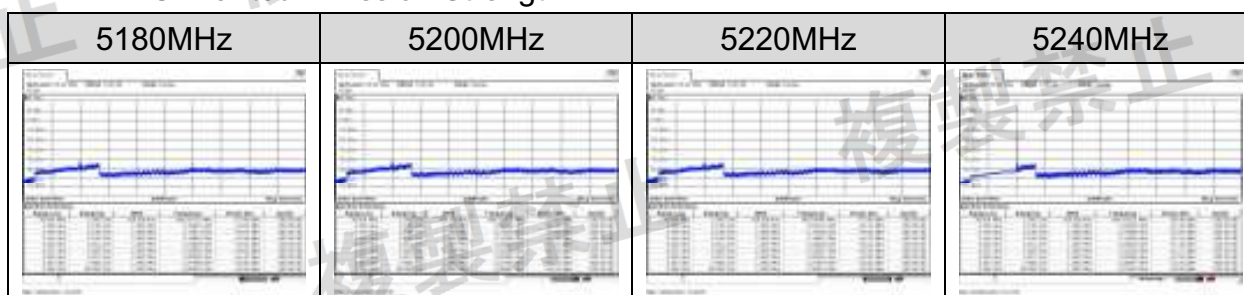
i. Frequency Tolerance



ii. Occupied Bandwidth



iii. Unwanted Emission Strength

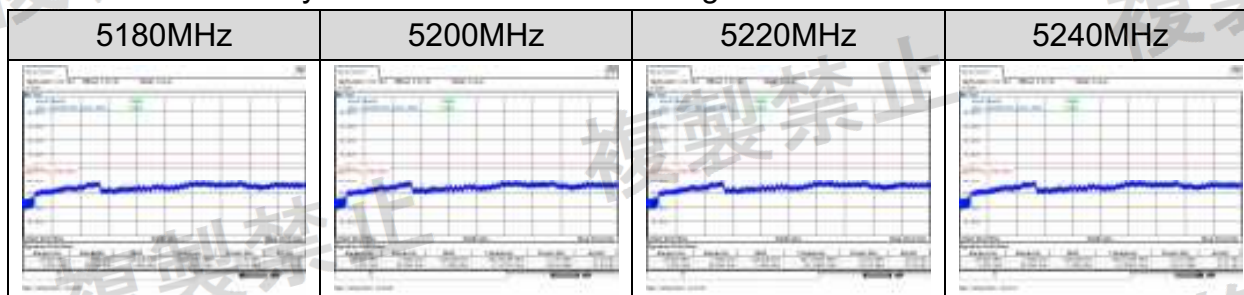


iv. Adjacent Channel Leakage Power

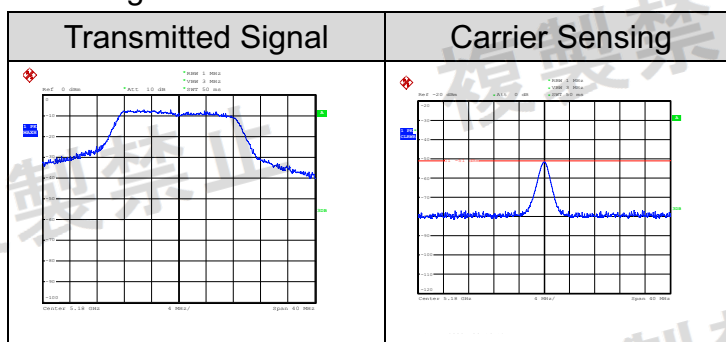




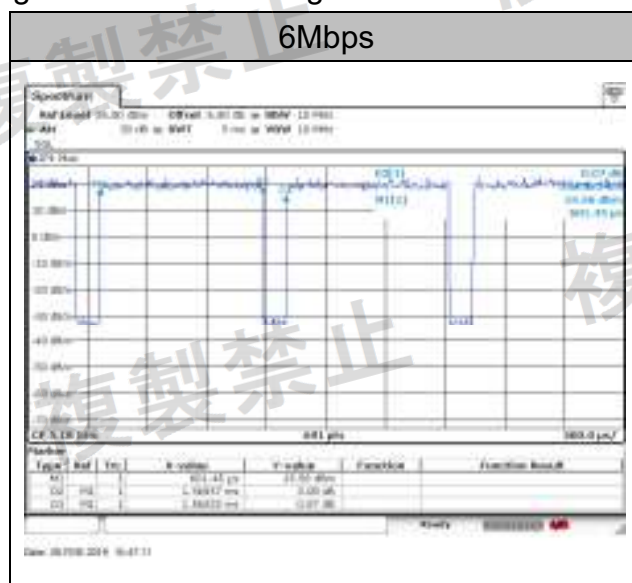
v. Secondly Emitted Radio Wave Strength



i. Carrier Sensing



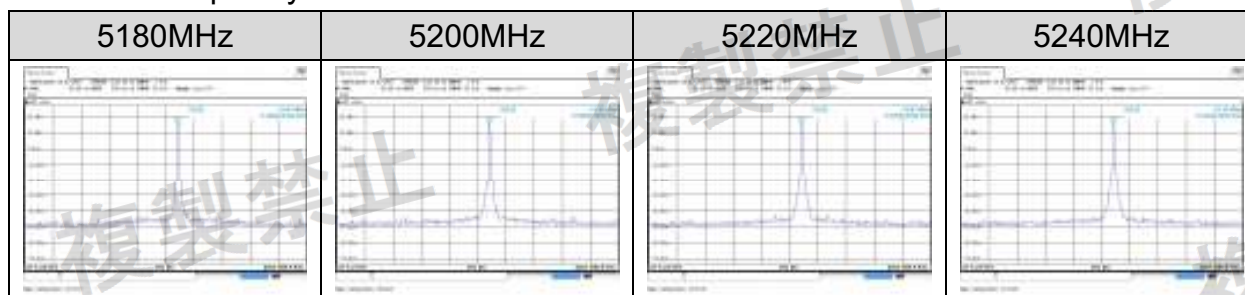
ii. Burst Length of Transmitted Signals



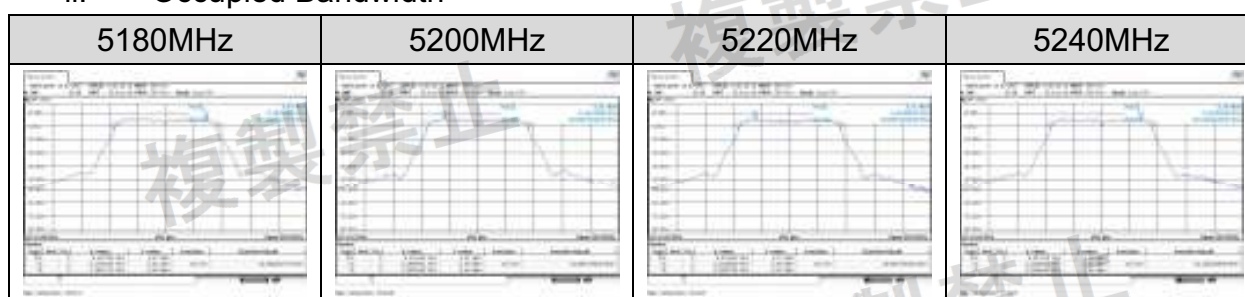


C.1.2. 802.11n-HT20

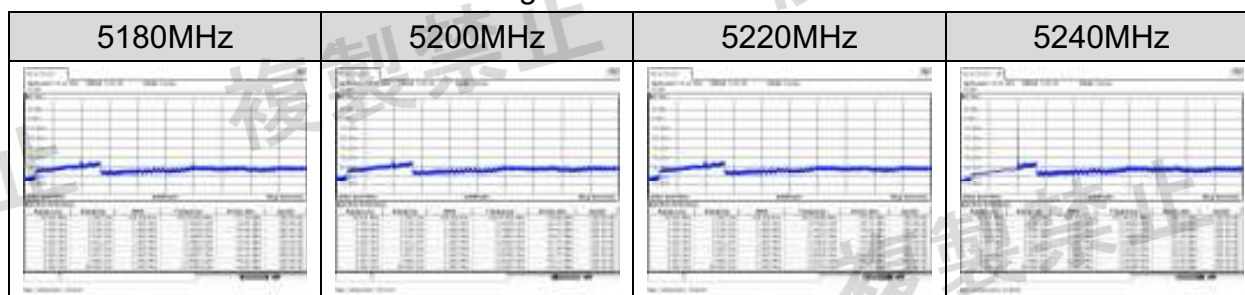
i. Frequency Tolerance



ii. Occupied Bandwidth

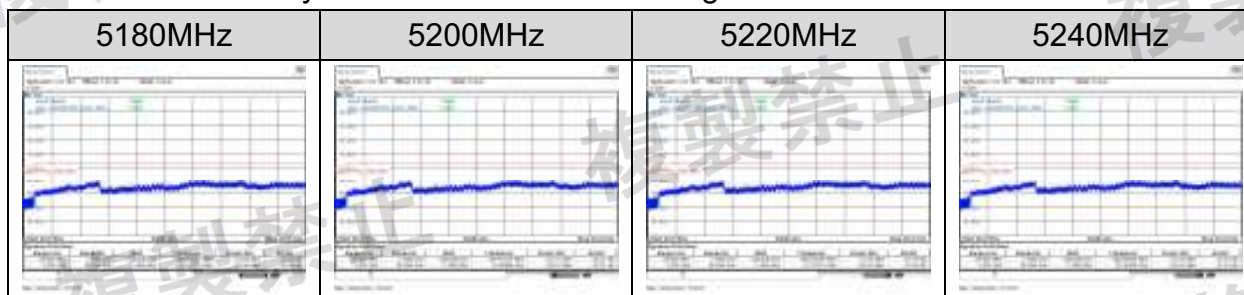
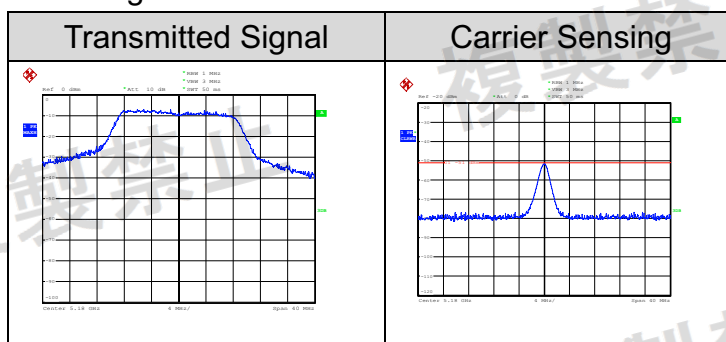


iii. Unwanted Emission Strength



iv. Adjacent Channel Leakage Power

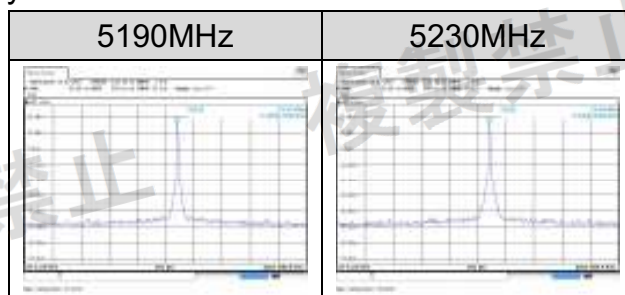


v. Secondly Emitted Radio Wave Strength

i. Carrier Sensing

ii. Burst Length of Transmitted Signals

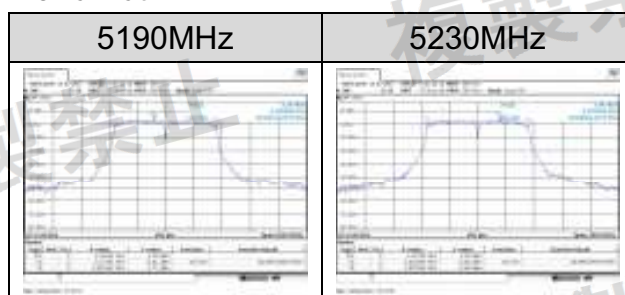



C.1.3. 802.11n-HT40

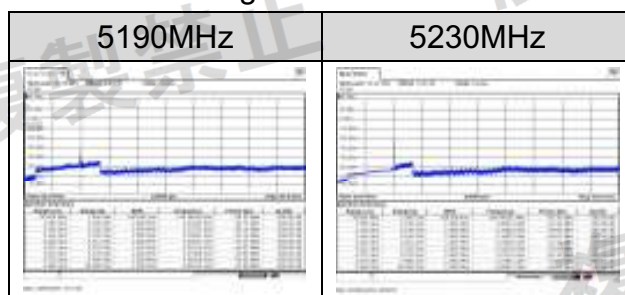
i. Frequency Tolerance



ii. Occupied Bandwidth



iii. Unwanted Emission Strength

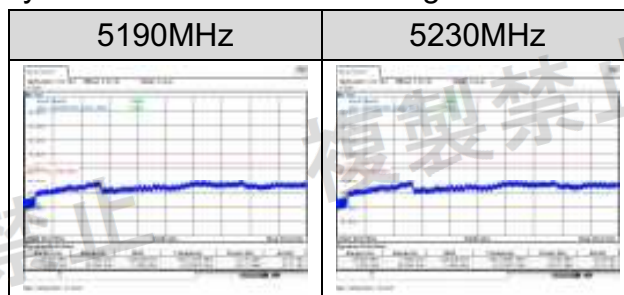


iv. Adjacent Channel Leakage Power

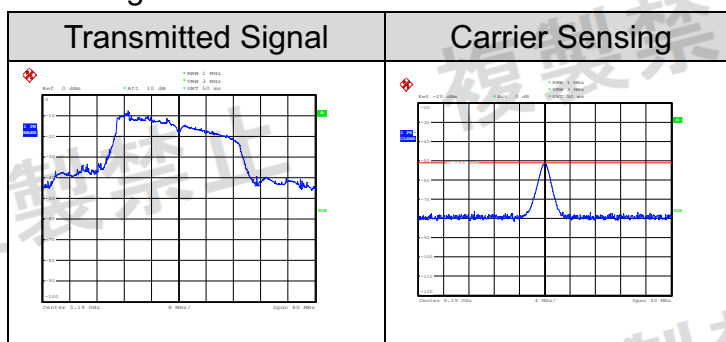




v. Secondly Emitted Radio Wave Strength



i. Carrier Sensing



ii. Burst Length of Transmitted Signals

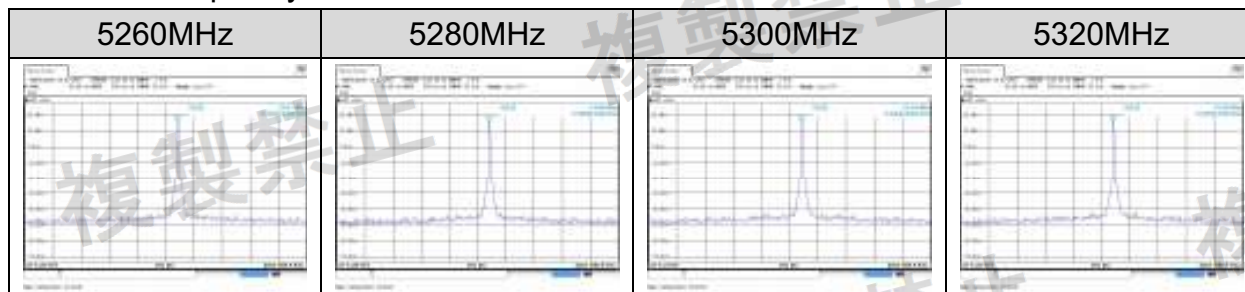




C.2. W53 Band_NV

C.2.1. 802.11a

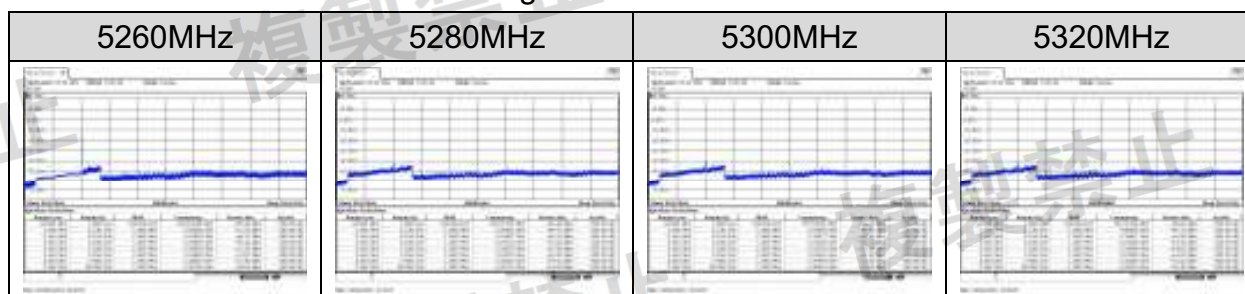
i. Frequency Tolerance



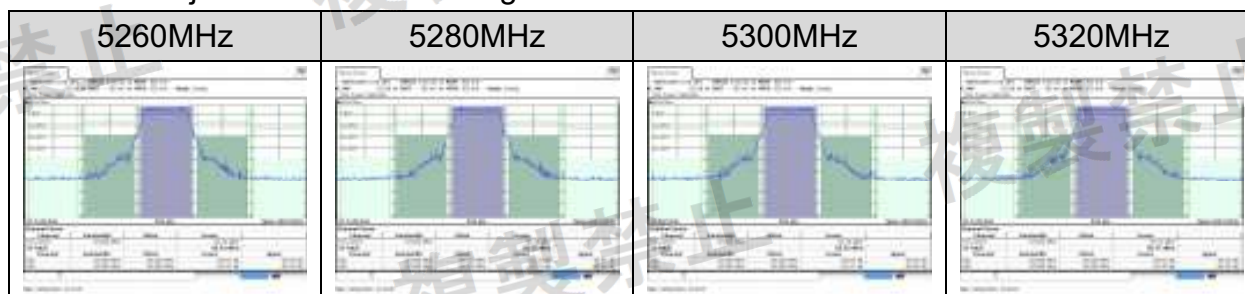
ii. Occupied Bandwidth

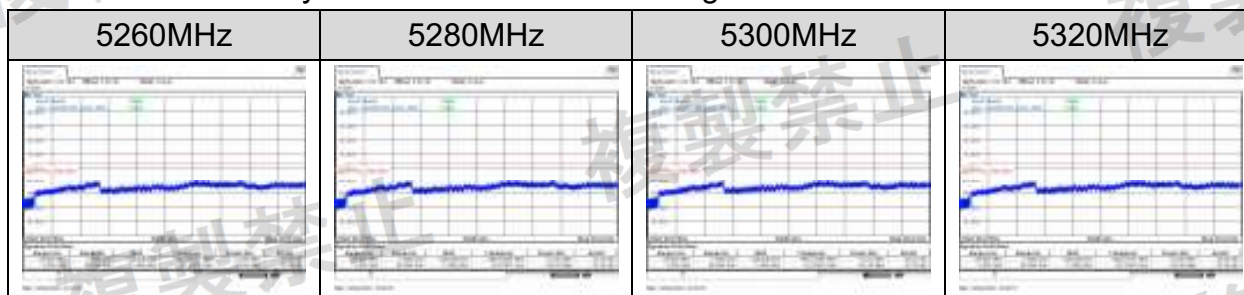
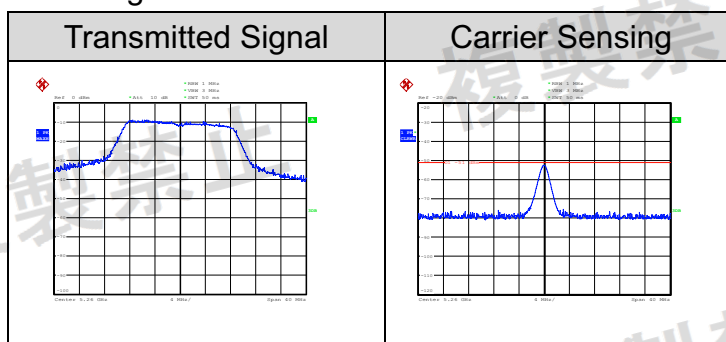


iii. Unwanted Emission Strength



iv. Adjacent Channel Leakage Power

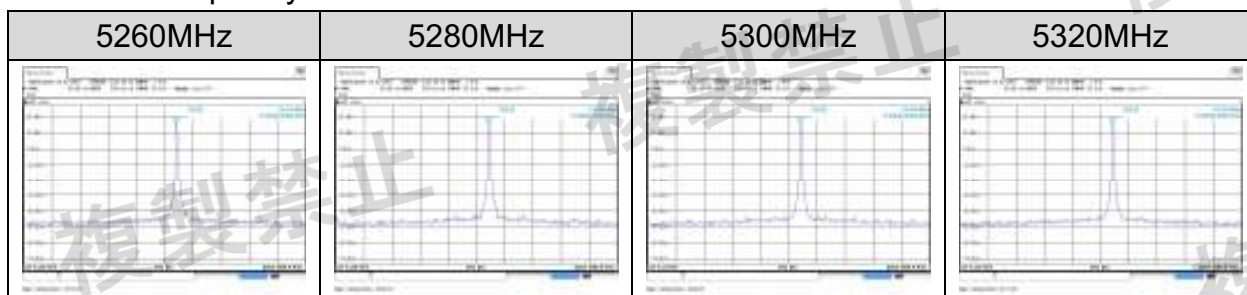


v. Secondly Emitted Radio Wave Strength

i. Carrier Sensing

ii. Burst Length of Transmitted Signals

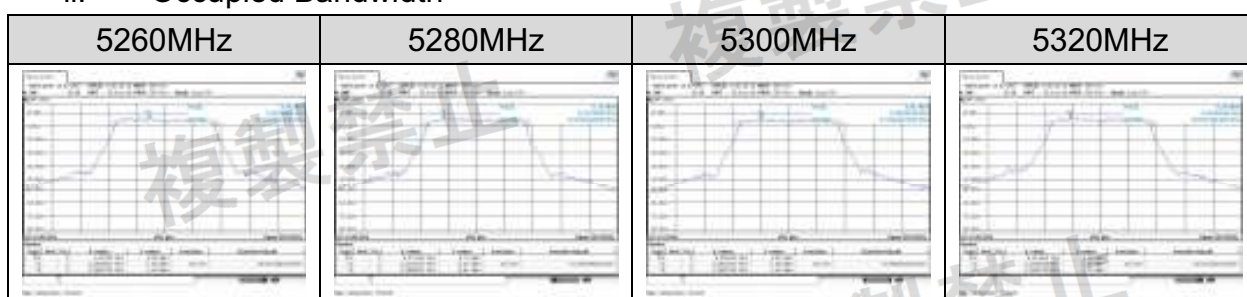



C.2.2. 802.11n-HT20

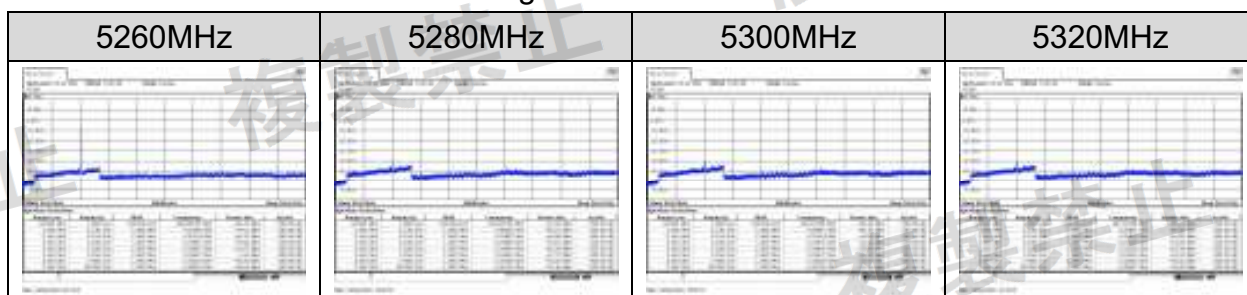
i. Frequency Tolerance



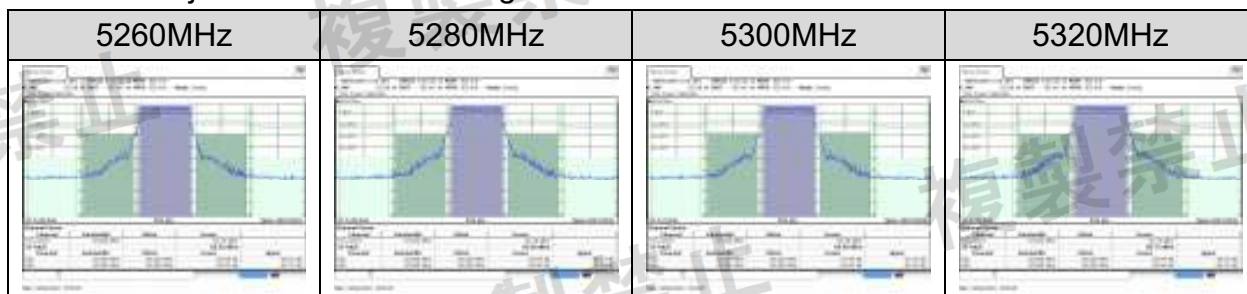
ii. Occupied Bandwidth

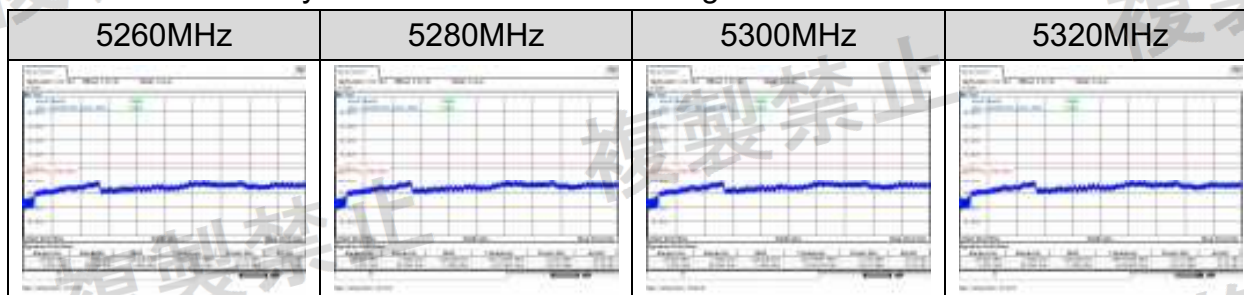
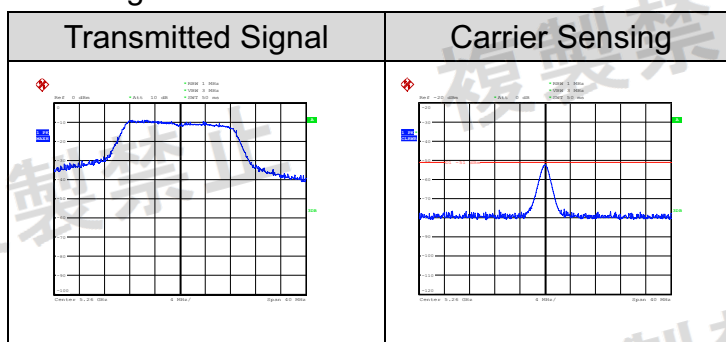


iii. Unwanted Emission Strength



iv. Adjacent Channel Leakage Power



v. Secondly Emitted Radio Wave Strength

i. Carrier Sensing

ii. Burst Length of Transmitted Signals

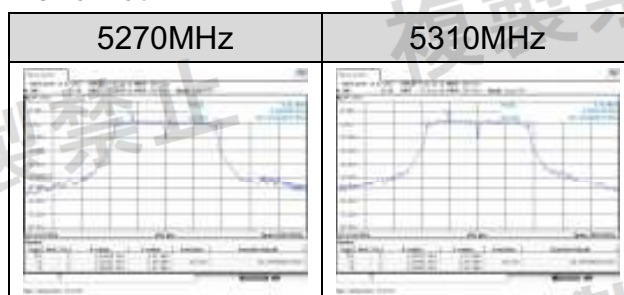



C.2.3. 802.11n-HT40

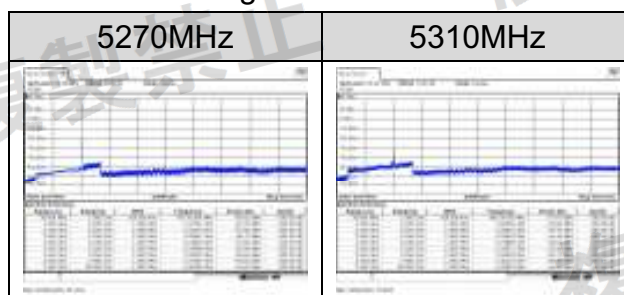
i. Frequency Tolerance



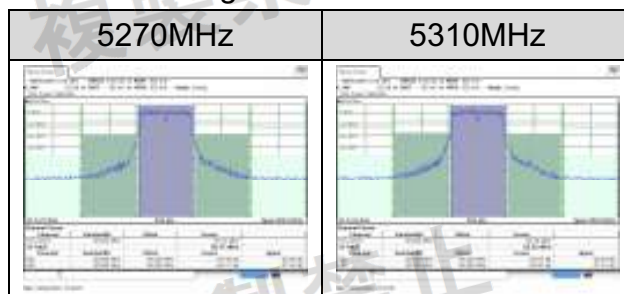
ii. Occupied Bandwidth



iii. Unwanted Emission Strength

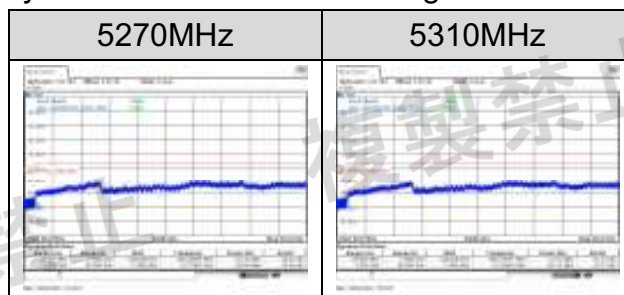


iv. Adjacent Channel Leakage Power

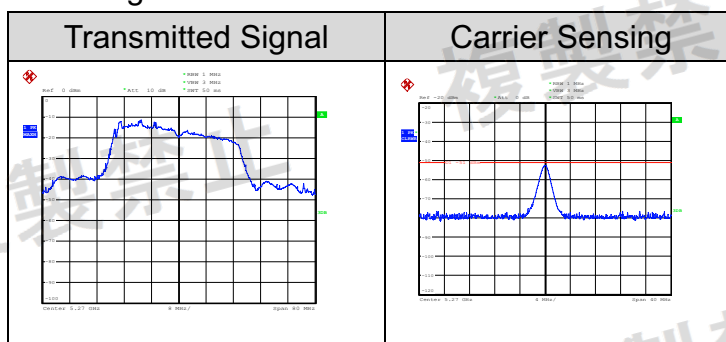




v. Secondly Emitted Radio Wave Strength



i. Carrier Sensing



ii. Burst Length of Transmitted Signals





C.3. W52 & W53 Band_NV

C.3.1. 802.11ac-VHT80

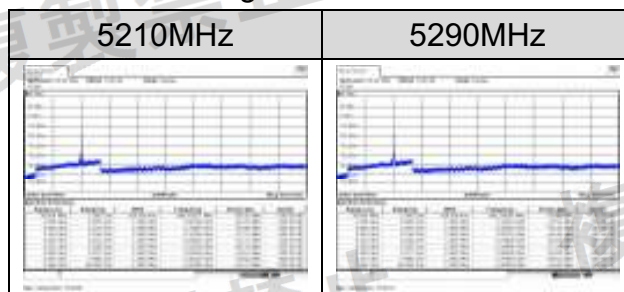
i. Frequency Tolerance



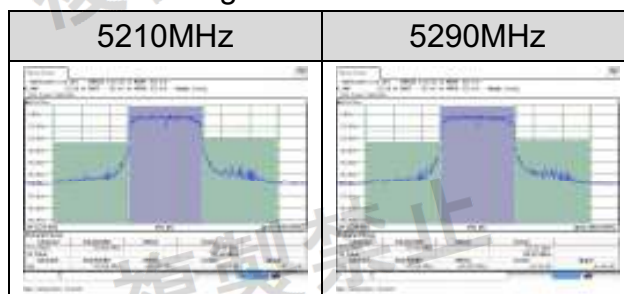
ii. Occupied Bandwidth



iii. Unwanted Emission Strength

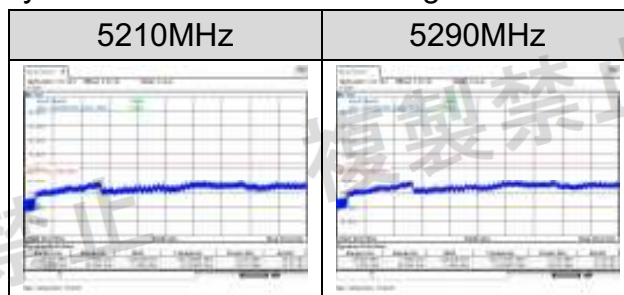


iv. Adjacent Channel Leakage Power

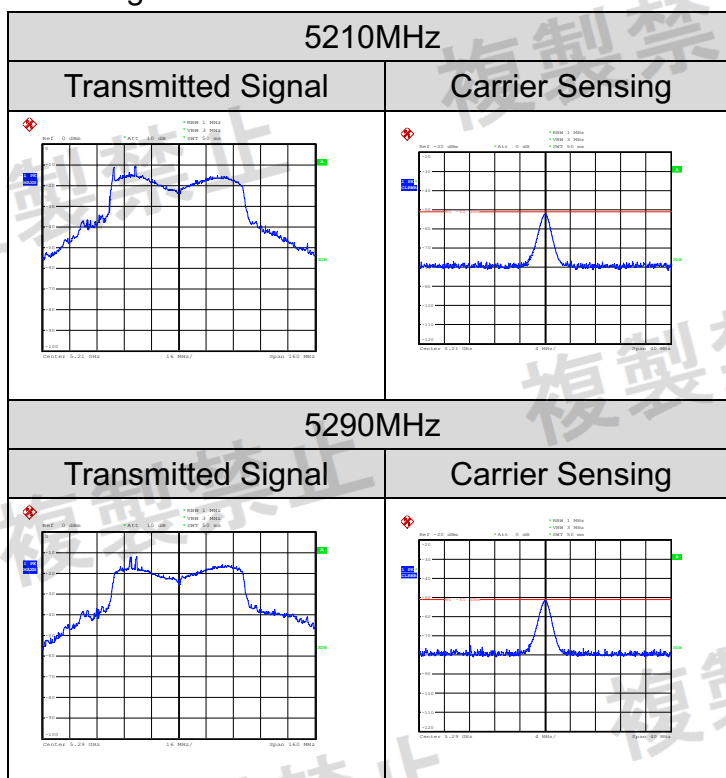




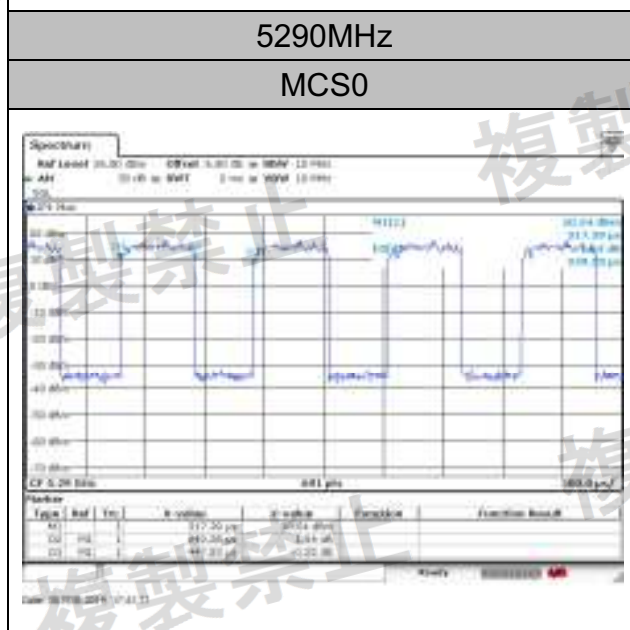
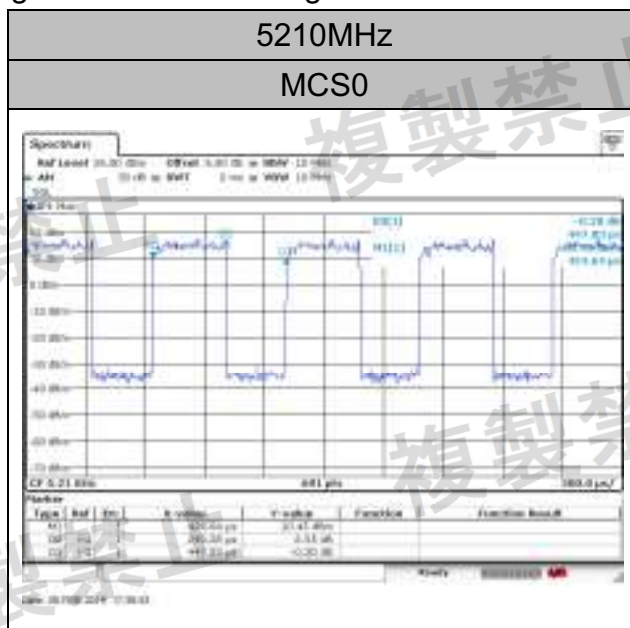
v. Secondly Emitted Radio Wave Strength



i. Carrier Sensing



ii. Burst Length of Transmitted Signals

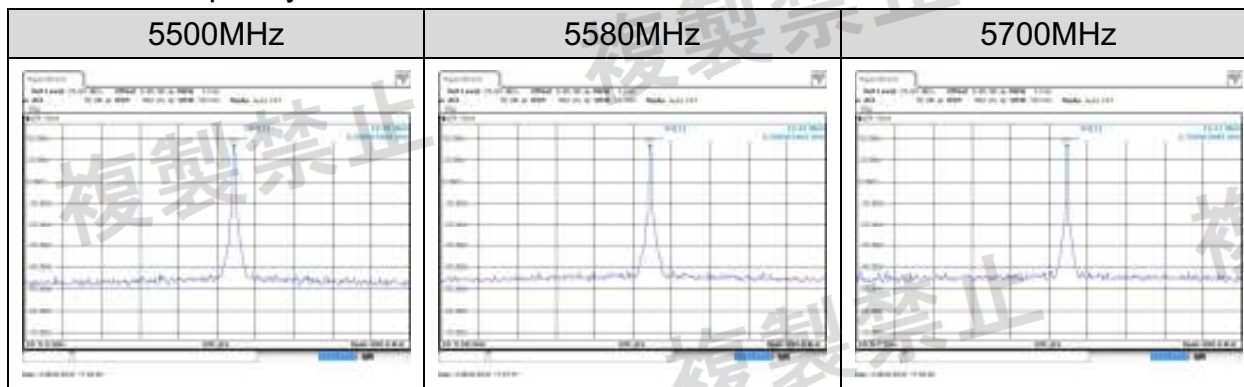




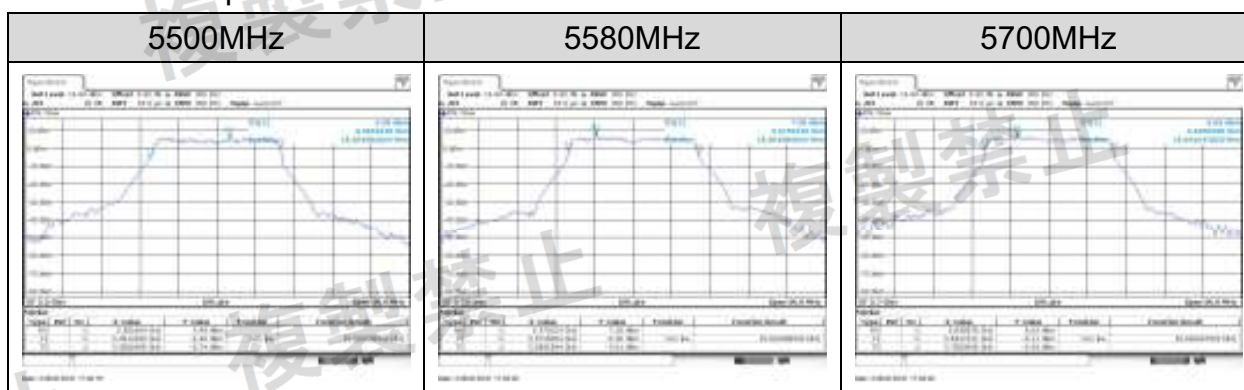
C.4. W56 Band_NV

C.4.1. 802.11a

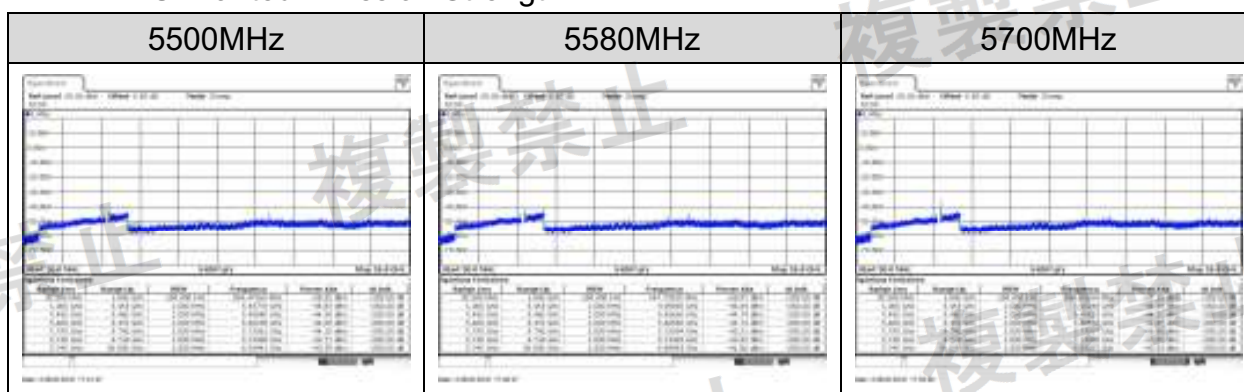
i. Frequency Tolerance



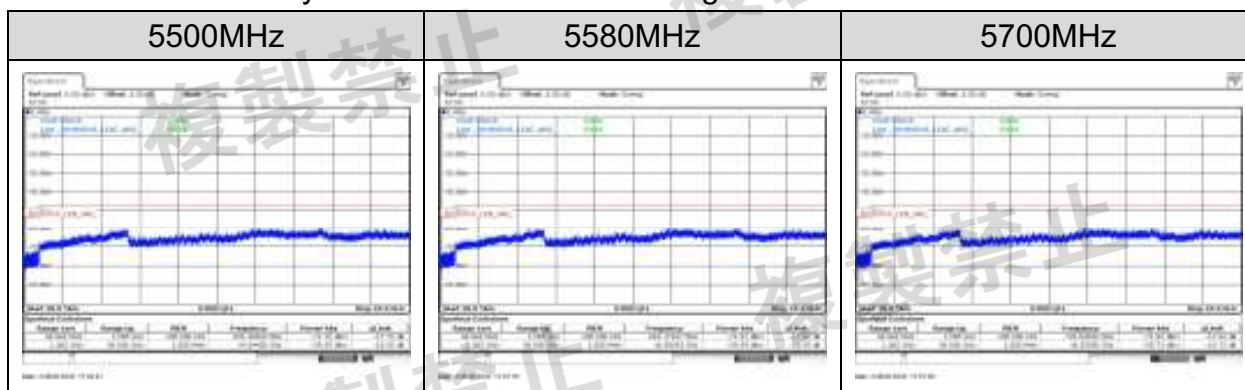
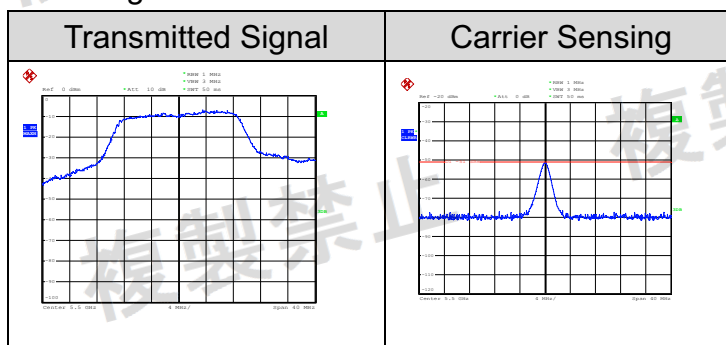
ii. Occupied Bandwidth



iii. Unwanted Emission Strength

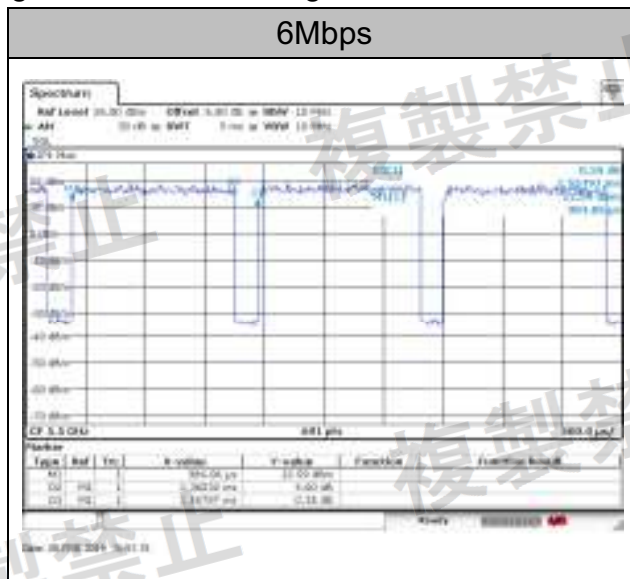


iv. Adjacent Channel Leakage Power

v. Secondly Emitted Radio Wave Strength

i. Carrier Sensing


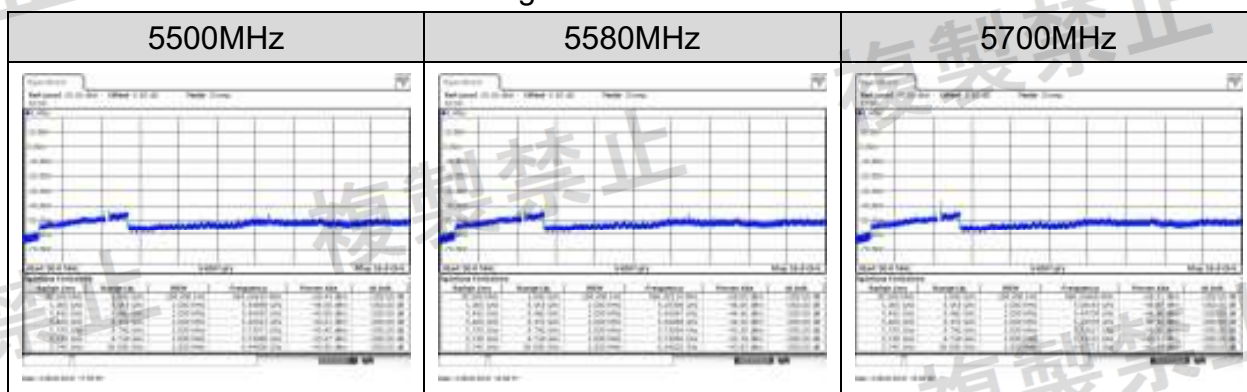


ii. Burst Length of Transmitted Signals

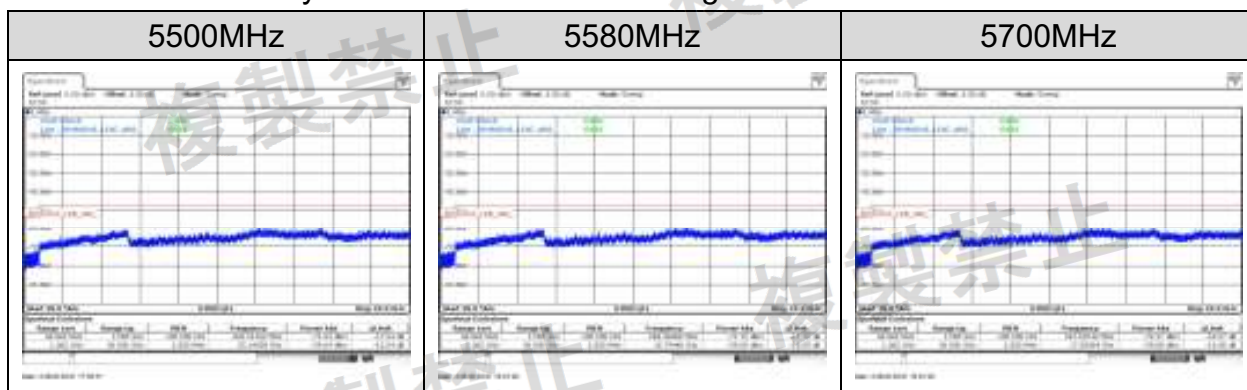
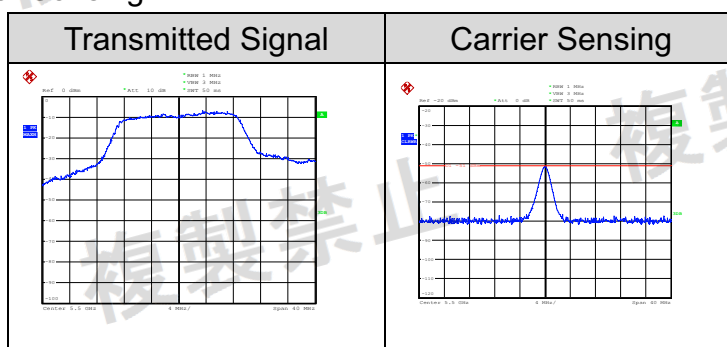


C.4.2. 802.11n-HT20
i. Frequency Tolerance

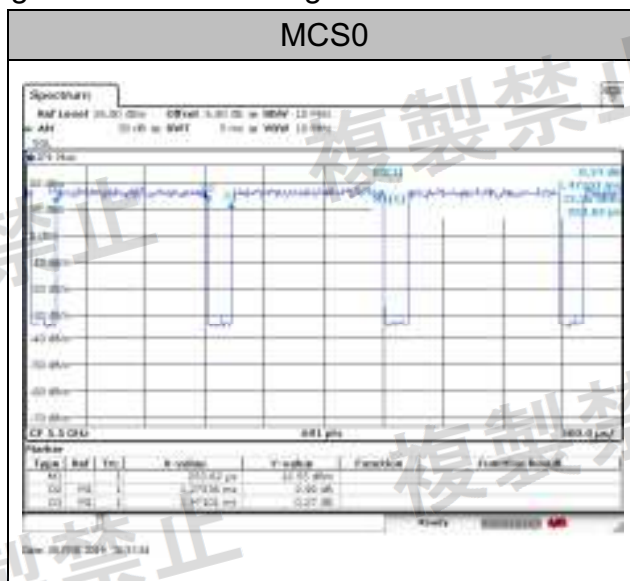
ii. Occupied Bandwidth

iii. Unwanted Emission Strength


iv. Adjacent Channel Leakage Power

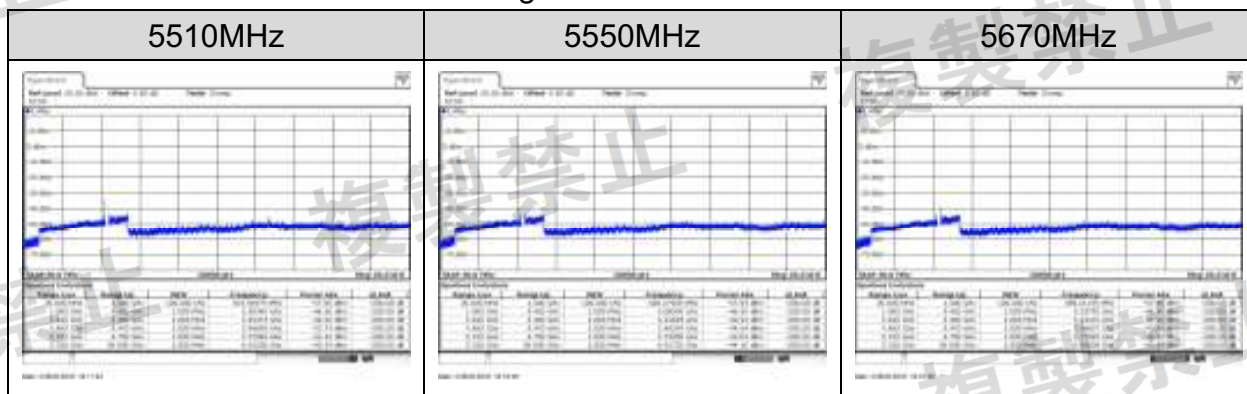
v. Secondly Emitted Radio Wave Strength

i. Carrier Sensing


ii. Burst Length of Transmitted Signals

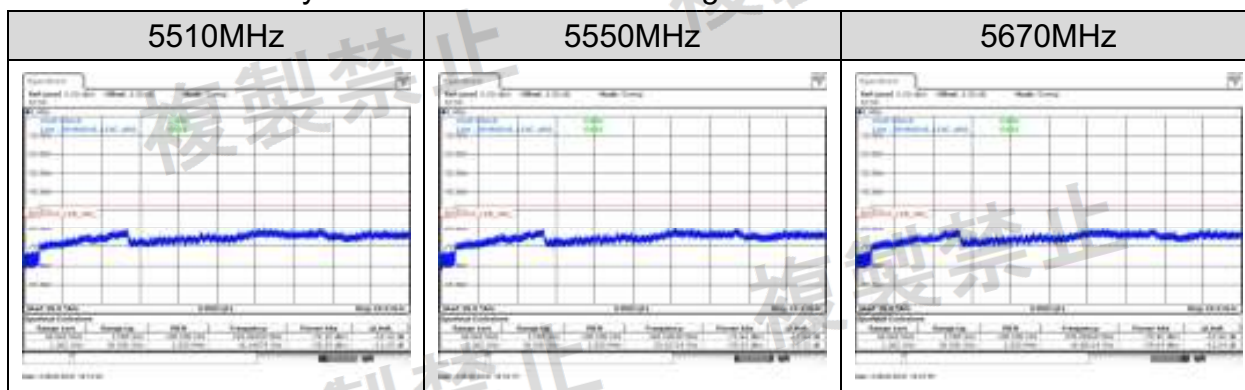
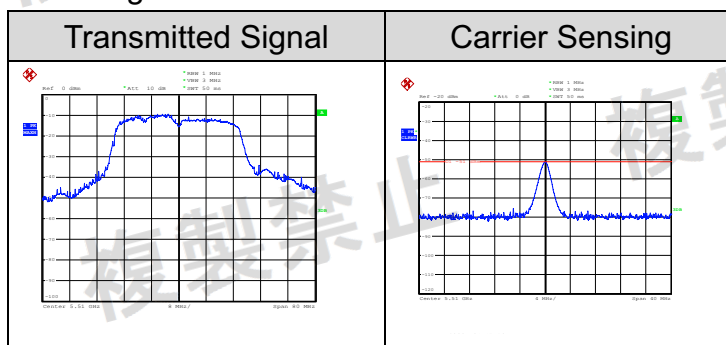


C.4.3. 802.11n-HT40
i. Frequency Tolerance

ii. Occupied Bandwidth

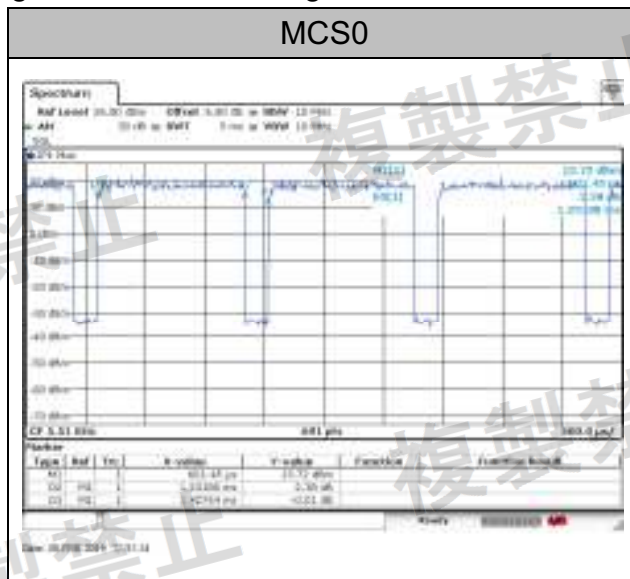
iii. Unwanted Emission Strength


iv. Adjacent Channel Leakage Power

v. Secondly Emitted Radio Wave Strength

i. Carrier Sensing




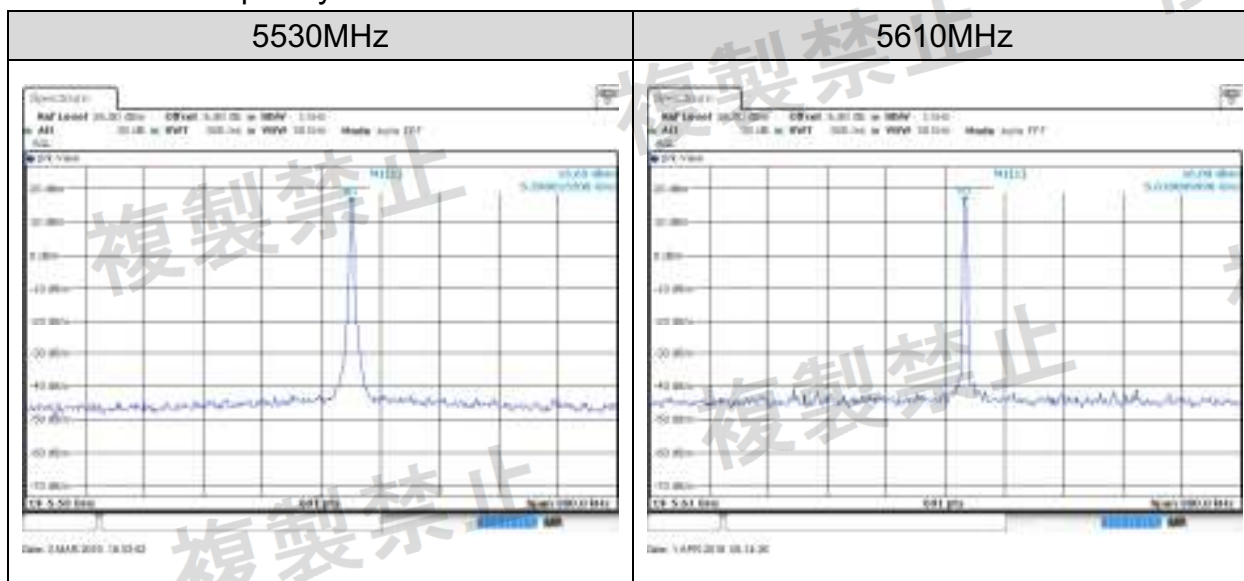
ii. Burst Length of Transmitted Signals



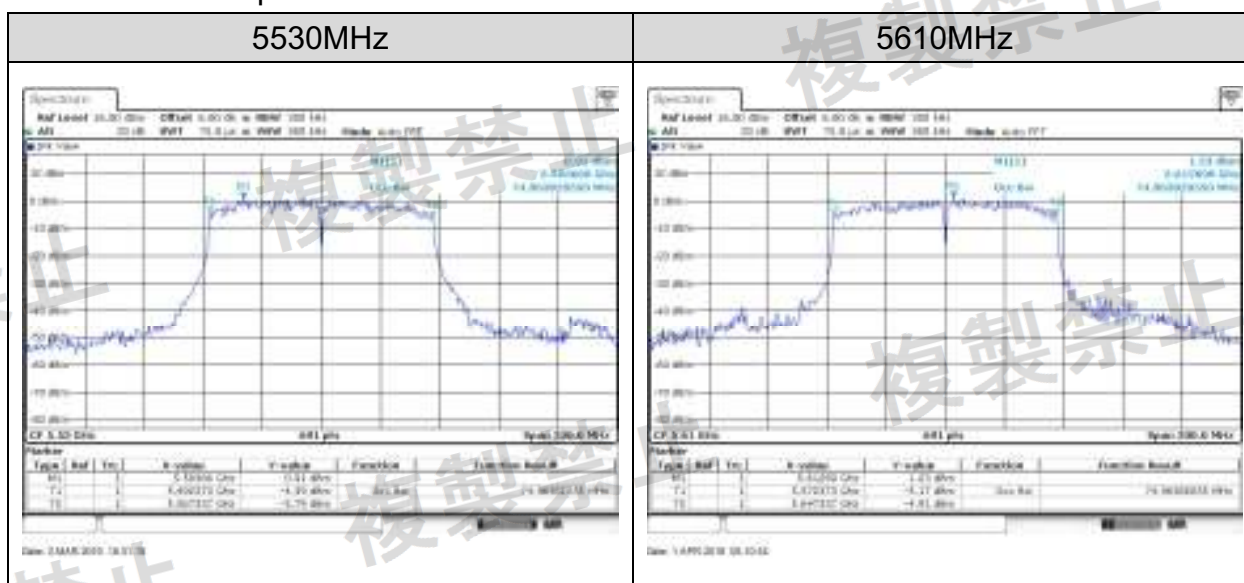


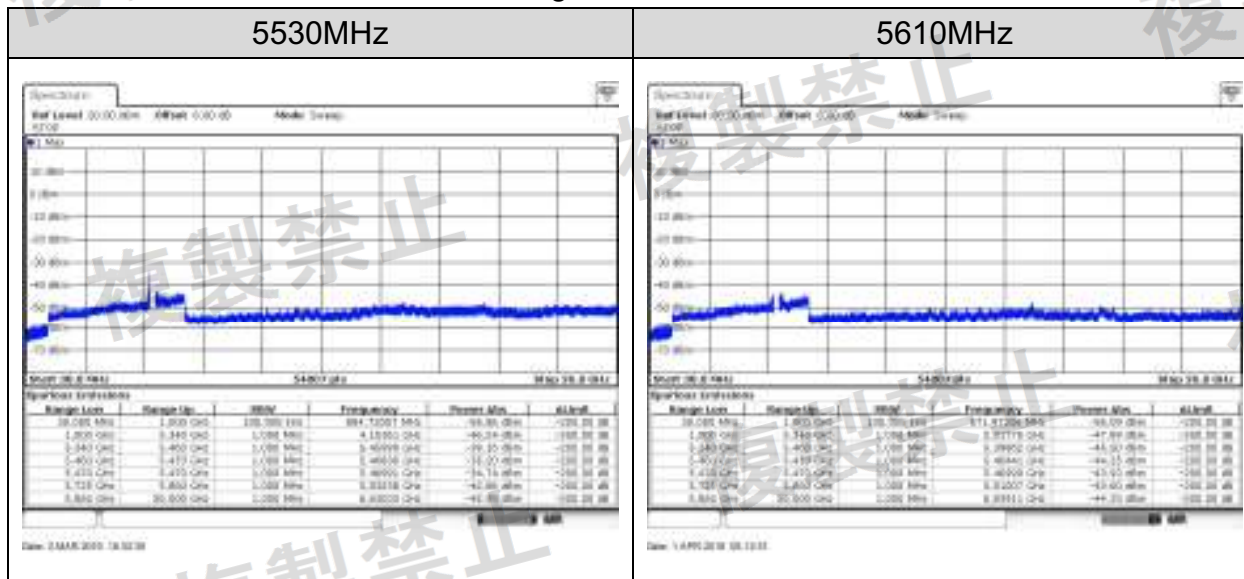
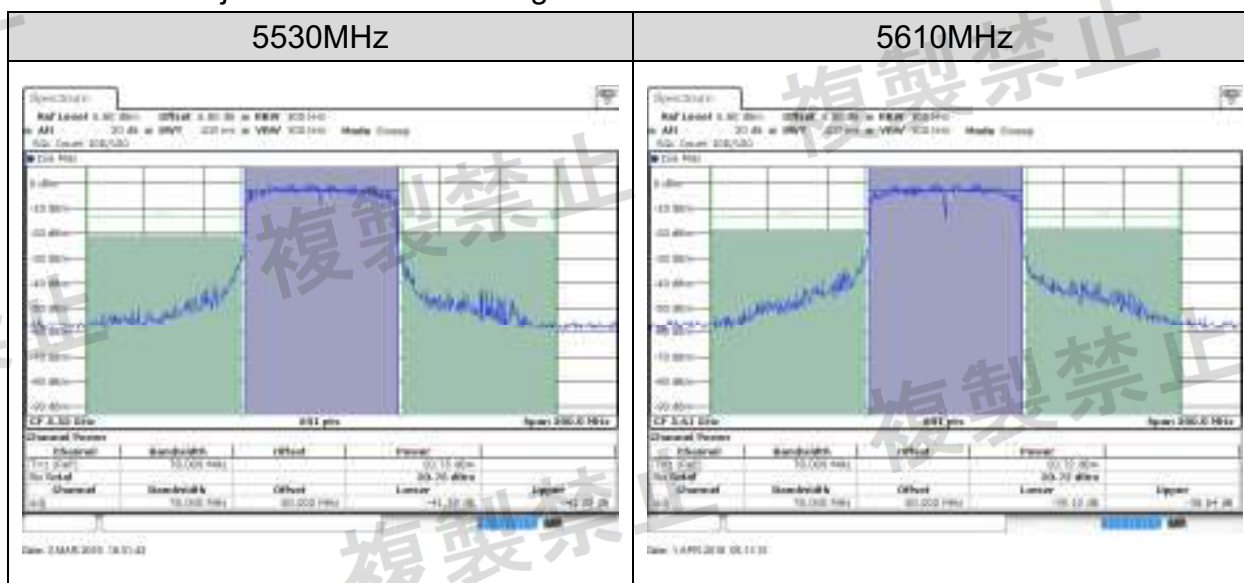
C.4.4. 802.11ac-VHT80

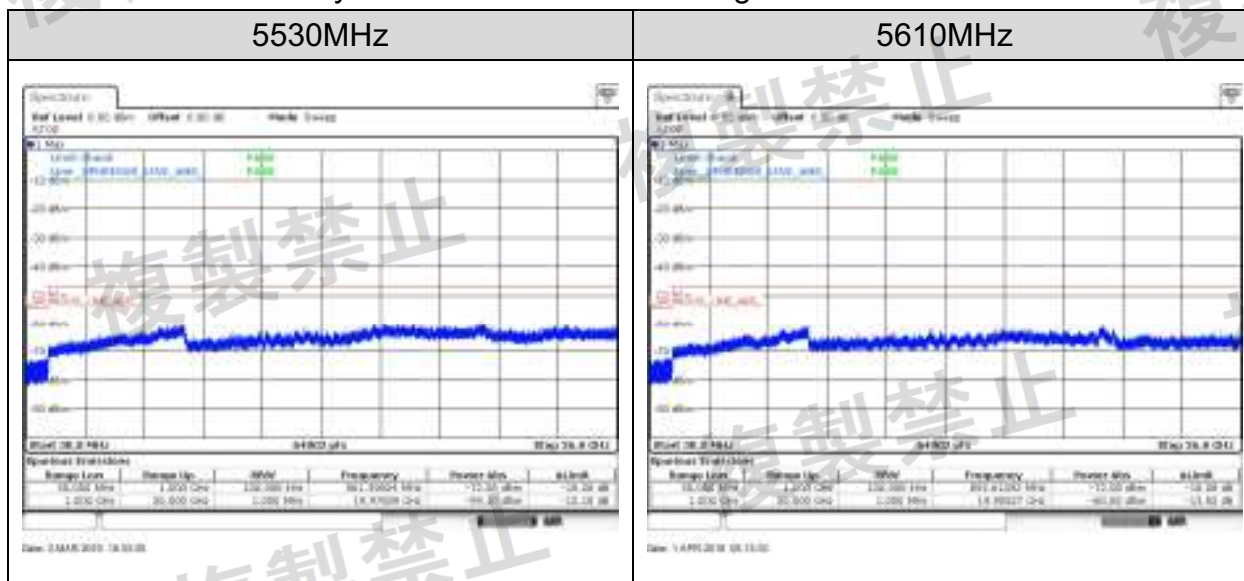
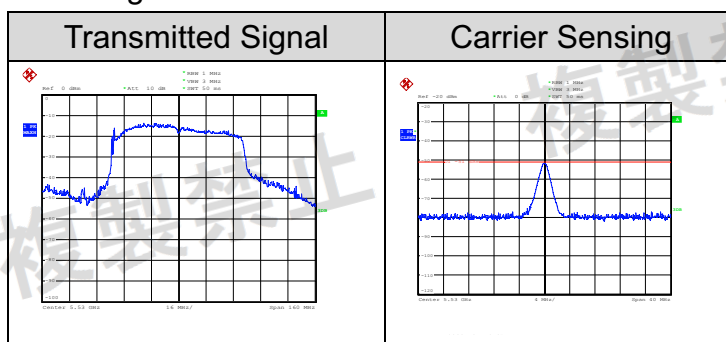
i. Frequency Tolerance



ii. Occupied Bandwidth



iii. Unwanted Emission Strength

iv. Adjacent Channel Leakage Power


v. Secondly Emitted Radio Wave Strength

i. Carrier Sensing




ii. Burst Length of Transmitted Signals

