FCC RF Test Report

APPLICANT : Texas Instruments Incorporated

EQUIPMENT: WiFi and Bluetooth Module

BRAND NAME : Texas Instruments

MODEL NAME : WL18MODGI

FCC ID : Z64-WL18DBMOD

STANDARD : FCC Part 15 Subpart E §15.407

CLASSIFICATION: (NII) Unlicensed National Information Infrastructure

The product was received on Oct. 09, 2014 and testing was completed on Dec. 16, 2014. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR4O0971D	Rev. 01	Initial issue of report	Dec. 19, 2014

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 0.78 dB at 5470 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 15.20 dB at 0.150 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-

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1 General Description

1.1 Applicant

Texas Instruments Incorporated

12500 TI Boulevard, M/S 8751, Dallas, TX 75243, USA

1.2 Manufacturer

FAX: 886-3-328-4978

Jorjin Technologies Inc

17F, No. 239, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

1.3 Feature of Equipment Under Test

Product Feature			
Equipment	WiFi and Bluetooth Module		
Brand Name	Texas Instruments		
Model Name	WL18MODGI		
FCC ID	Z64-WL18DBMOD		
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40		
EOT Supports Radios application	Bluetooth v4.0 EDR/LE		
HW Version	WG7837-T0B		
EUT Stage	Identical Prototype		

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

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1.4 Product Specification of Equipment Under Test

Product Sp	ecification subjective to this standard
Tx/Rx Channel Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5580 MHz 5660 MHz ~ 5700 MHz
Maximum Output Power	<pre><ant. 1=""> <5180 MHz ~ 5240 MHz> 802.11a : 15.58 dBm / 0.0361 W 802.11n HT20 : 15.71 dBm / 0.0372 W 802.11n HT40 : 16.60 dBm / 0.0457 W <5260 MHz ~ 5320 MHz> 802.11a : 13.20 dBm / 0.0209 W 802.11n HT20 : 13.27 dBm / 0.0212 W 802.11n HT40 : 16.86 dBm / 0.0485 W <5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz > 802.11a : 17.50 dBm / 0.0562 W 802.11n HT20 : 17.24 dBm / 0.0530 W 802.11n HT40 : 15.78 dBm / 0.0378 W <ant. 2=""> <5180 MHz ~ 5240 MHz> 802.11a : 15.82 dBm / 0.0382 W 802.11n HT40 : 15.54 dBm / 0.0358 W 802.11n HT40 : 16.98 dBm / 0.0499 W <5260 MHz ~ 5320 MHz> 802.11a : 13.48 dBm / 0.0223 W 802.11n HT40 : 17.20 dBm / 0.0244 W 802.11n HT40 : 17.20 dBm / 0.0555 W <5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz > 802.11a : 18.44 dBm / 0.0698 W 802.11n HT20 : 17.52 dBm / 0.0565 W 802.11n HT40 : 16.74 dBm / 0.0472 W</ant.></ant.></pre>
99% Occupied Bandwidth	802.11a : 19.05 MHz 802.11n HT20 : 18.85 MHz 802.11n HT40 : 36.50 MHz
Type of Modulation	802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)

Antenna Information					
Antenna Type	Brand	2.4GHz~2.5GHz	4.9GHz~5.8GHz		
PCB	Ethertronics	-0.6	4.5		
Dipole	LSR	2	2		
PCB	Laird	2	4		
Chip	Pulse	3.2	4.2		
PIFA	LSR	2	3		
Chip	TDK	2.4	3.96		

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1.5 Modification of EUT

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

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.			
	No. 52, Hwa Ya 1 st Rd., F	lwa Ya Technology Park,		
Took Cita Lagation	Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.			
Test Site Location	TEL: +886-3-327-3456			
	FAX: +886-3-328-4978			
Took Site No		Sporton Site No.		
Test Site No.	TH02-HY	CO05-HY	03CH07-HY	

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

1.7 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v01
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2009

Remark:

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

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2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

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

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

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2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz	36	5180	44	5220
Band 1	38	5190	46	5230
(U-NII-1)	40	5200	48	5240

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz	52	5260	60	5300
Band 2	54	5270	62	5310
(U-NII-2A)	56	5280	64	5320

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	100	5500	116	5580
5470-5600 MHz	102	5510	132	5660
and	104	5520	134	5670
5650-5725 MHz Band 3	108	5540	136	5680
(U-NII-2C)	110	5550	140	5700
, ,	112	5560		

Note: The above Frequency and Channel in boldface were 802.11n HT40.

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2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test in the following tables. Final Output Power equals to Measured Output Power adds the duty factor.

<Ant. 1>

5GHz 802.11a mode					
Data Rate (MHz)		6M bps			
Channel	36	36 44 48			
Frequency (MHz)	5180	5220	5240		
Average Power (dBm)	15.54	<mark>15.58</mark>	15.40		
Channel	52	60	64		
Frequency (MHz)	5260	5300	5320		
Average Power (dBm)	<mark>13.20</mark>	12.94	12.98		
Channel	100	116	140		
Frequency (MHz)	5500	5580	5700		
Average Power (dBm)	14.30	<mark>17.50</mark>	11.82		

5GHz 802.11n HT20 mode					
Data Rate (MHz)		MCS0			
Channel	36	36 44 48			
Frequency (MHz)	5180	5220	5240		
Average Power (dBm)	<mark>15.71</mark>	15.35	15.28		
Channel	52	64			
Frequency (MHz)	5260	5300	5320		
Average Power (dBm)	13.12	<mark>13.27</mark>	12.79		
Channel	100	116	140		
Frequency (MHz)	5500	5580	5700		
Average Power (dBm)	14.06	<mark>17.24</mark>	11.76		

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5GHz 802.11n HT40 mode					
Data Rate (MHz)		МС	:S0		
Channel	38			46	
Frequency (MHz)	5190 5230			5230	
Average Power (dBm)	11.48		<mark>16.60</mark>		
Channel	54		62		
Frequency (MHz)	5270			5310	
Average Power (dBm)	<mark>16.86</mark>		11.80		
Channel	102		10	134	
Frequency (MHz)	5510 55		50	5670	
Average Power (dBm)	11.52	<mark>15</mark> .	. <mark>78</mark>	12.56	

<Ant. 2>

5GHz 802.11a mode						
Data Rate (MHz)		6M bps				
Channel	36 44 48					
Frequency (MHz)	5180	5220	5240			
Average Power (dBm)	15.71	<mark>15.82</mark>	15.56			
Channel	52	60	64			
Frequency (MHz)	5260	5300	5320			
Average Power (dBm)	13.30	<mark>13.48</mark>	13.28			
Channel	100	116	140			
Frequency (MHz)	5500 5580 5700					
Average Power (dBm)	14.52	<mark>18.44</mark>	11.94			

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5GHz 802.11n HT20 mode						
Data Rate (MHz)		MCS0				
Channel	36	36 44 48				
Frequency (MHz)	5180	5220	5240			
Average Power (dBm)	<mark>15.54</mark>	15.53	15.48			
Channel	52	60	64			
Frequency (MHz)	5260	5300	5320			
Average Power (dBm)	13.44	<mark>13.87</mark>	13.37			
Channel	100	116	140			
Frequency (MHz)	5500 5580 5700					
Average Power (dBm)	14.93	<mark>17.52</mark>	12.19			

5GHz 802.11n HT40 mode					
Data Rate (MHz)		МС	S0		
Channel	38			46	
Frequency (MHz)	5190			5230	
Average Power (dBm)	11.76		<mark>16.98</mark>		
Channel	54		62		
Frequency (MHz)	5270			5310	
Average Power (dBm)	<mark>17.20</mark>			12.22	
Channel	102 11		10	134	
Frequency (MHz)	5510 55		50	5670	
Average Power (dBm)	11.28	<mark>16</mark> .	<mark>.74</mark>	12.83	

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2.3 Test Mode

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

	Test Cases						
	Test Items	Mode	Data rate	Test Channel			
	00 dD and 000/ DW	802.11a	6 Mbps	L/M/H			
	26dB and 99% BW	802.11n HT20	MCS0	L/M/H			
	Power Spectral Density	802.11n HT40	MCS0	L/M/H			
Conducted	Output Power	802.11a	6 Mbps	L/M/H			
TCs		802.11n HT20	MCS0	L/M/H			
		802.11n HT40	MCS0	L/M/H			
	Frequency Stability	802.11a	6 Mbps	L/M/H			
		802.11n HT20	MCS0	L/M/H			
		802.11n HT40	MCS0	L/M/H			
	Radiated Band Edge	802.11a	6 Mbps	L/M/H			
Radiated TCs	Radiated Spurious Emission	802.11a	6 Mbps	L/M/H			
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Adapter						

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	Ch. #	Band I:5150-5250 MHz	Band II:5250-5350 MHz	Band III:5470-5600 MHz and 5650-5725MHz	
		802.11a	802.11a	802.11a	
L	Low	36	52	100	
M	Middle	44	60	116	
Н	High	48	64	140	

Ch. #		Band I:5150-5250 MHz	Band II:5250-5350 MHz	Band III:5470-5600 MHz and 5650-5725MHz	
		802.11n HT20	802.11n HT20	802.11n HT20	
L	Low	36	52	100	
М	Middle	44	60	116	
Н	High	48	64	140	

	Ch. #	Band I:5150-5250 MHz	Band II:5250-5350 MHz	Band III:5470-5600 MHz and 5650-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
Н	High	46	62	134

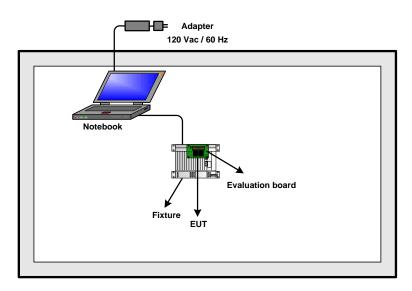
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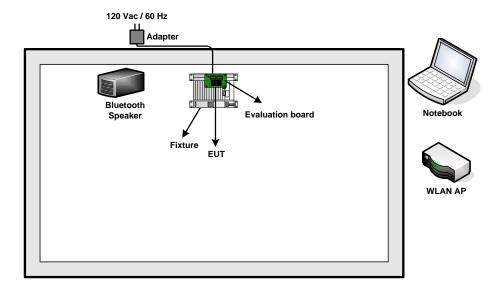
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2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



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2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	Lenovo	M490S	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Speaker	MI	MDZ-03-AC	N/A	N/A	N/A
5.	Fixture	N/A	N/A	N/A	N/A	N/A
6.	Evaluation board	N/A	WG1300BE00	N/A	N/A	N/A

2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, "RTTT Tool" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

2.7 Measurement Results Explanation Example

For all conducted test items:

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

Example:

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ = 4.2 + 10 = 14.2 (dB)

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3 Test Result

3.1 26dB & 99% Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

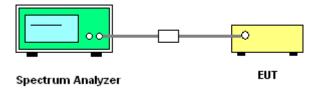
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
 Section C) Emission bandwidth
- 2. Set RBW = approximately 1% of the emission bandwidth.
- 3. Set the VBW > RBW.
- 4. Detector = Peak.
- 5. Trace mode = max hold
- 6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- 7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) ≥ 3 * RBW.
- 8. Measure and record the results in the test report.

3.1.4 Test Setup



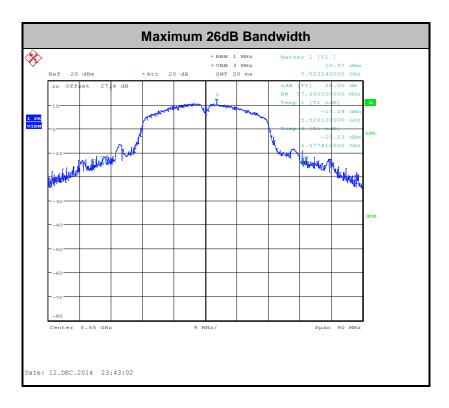
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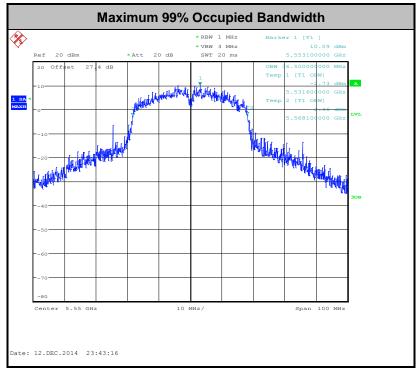
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3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.





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3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

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

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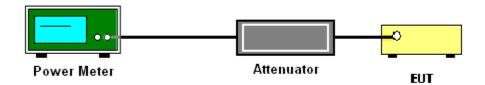
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

Method PM (Measurement using an RF average power meter):

- 1. Measurement is performed using a wideband RF power meter.
- 2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
- 3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

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3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

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

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3.3.3 Test Procedures

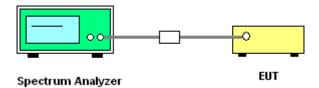
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01. Section F) Maximum power spectral density.

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
 - Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW ≥ 3 MHz.
 - Number of points in sweep ≥ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the
 average power during the actual transmission times. For example, add 10 log(1/0.25) = 6
 dB if the duty cycle is 25 percent.
- 2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
- 3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



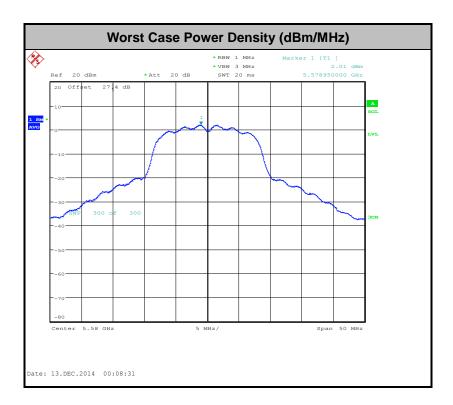
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3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



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3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of –27dBm/MHz.
 - For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.
 - For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.
- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{2}$$
 µV/m, where P is the eirp (Watts)

EIRP (dBm)	Field Strength at 3m (dBµV/m)
-17	78.3
- 27	68.3

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(3) KDB789033 v01 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW ≥ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	93.01	3413.46	0.29	300Hz
1	802.11an20	92.92	3157.05	0.32	1kHz
1	802.11an40	86.61	1554.49	0.64	1kHz
2	802.11a	93.42	3413.46	0.29	300Hz
2	802.11an20	93.4	3173.08	0.32	1kHz
2	802.11an40	86.1	1538.46	0.65	1kHz

- 2. The EUT was placed on a rotatable table top 0.8 meter above ground.
- 3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- 4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- 7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

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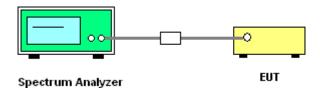
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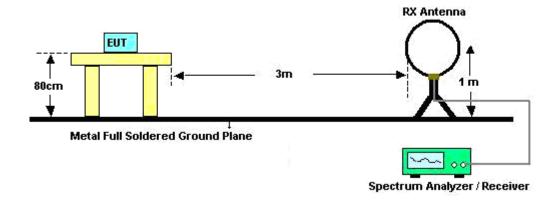
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3.4.4 Test Setup

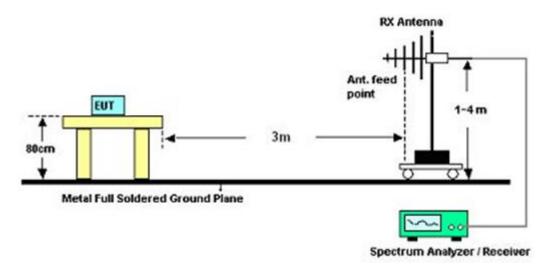
For Conducted Measurement Setup:



For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz

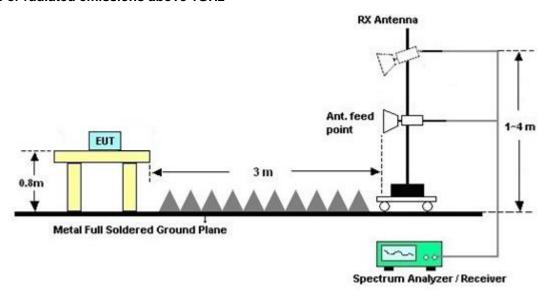


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For radiated emissions above 1GHz



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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

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3.4.6 Test Result of Conducted Spurious at Band Edges in the Restricted Band

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15E 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI 802.11a (Band Edge @ 3m)										
WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
802.11a		5150	-22.86	-1.66	-21.2	-29.86	4.5	2.5	0	Р
CH 36		5147.3	-43.02	-1.82	-41.2	-50.02	4.5	2.5	0	Α
5180MHz	*	5181	11.75	-	-	4.75	4.5	2.5	0	P
	*	5181	1.31	-	-	-5.69	4.5	2.5	0	Α
		5115.2	-40.16	-18.96	-21.2	-47.16	4.5	2.5	0	Р
000 44 -		5117	-50.4	-9.2	-41.2	-57.4	4.5	2.5	0	Α
802.11a CH 44	*	5219	16.2	-	-	9.2	4.5	2.5	0	Р
5220MHz	*	5219	7.74	-	-	0.74	4.5	2.5	0	Α
3220WII 12		5367.6	-47.19	-25.99	-21.2	-54.19	4.5	2.5	0	Р
		5426.67	-58.07	-16.87	-41.2	-65.07	4.5	2.5	0	Α
		5135	-41.39	-20.19	-21.2	-48.39	4.5	2.5	0	Р
802.11a		5135.3	-50.69	-9.49	-41.2	-57.69	4.5	2.5	0	Α
CH 48 5240MHz	*	5239	16.5	-	-	9.5	4.5	2.5	0	Р
3240WITIZ	*	5239	7.4	-	-	0.4	4.5	2.5	0	Α
2										
802.11a		5150	-30.54	-9.34	-21.2	-37.54	4.5	2.5	0	Р
CH 36		5148.2	-48.68	-7.48	-41.2	-55.68	4.5	2.5	0	Α
5180MHz	*	5178	16.18	-	-	9.18	4.5	2.5	0	Р
010011112	*	5178	7.44	-	-	0.44	4.5	2.5	0	Α
		5114.9	-41.27	-20.07	-21.2	-48.27	4.5	2.5	0	Р
000 44		5114.9	-51.08	-9.88	-41.2	-58.08	4.5	2.5	0	Α
802.11a	*	5222	15.99	-	-	8.99	4.5	2.5	0	Р
CH 44 5220MHz	*	5222	7.87	-	-	0.87	4.5	2.5	0	А
3220WITZ		5425.46	-46.6	-25.4	-21.2	-53.6	4.5	2.5	0	Р
		5426.67	-58.48	-17.28	-41.2	-65.48	4.5	2.5	0	А
		5134.85	-40.72	-19.52	-21.2	-47.72	4.5	2.5	0	Р
802.11a		5134.4	-50.49	-9.29	-41.2	-57.49	4.5	2.5	0	Α
CH 48	*	5241	16.46	-	-	9.46	4.5	2.5	0	Р
5240MHz	*	5241	7.62	-	-	0.62	4.5	2.5	0	Α

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15E 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

	WIFI 802.11n HT20 (Band Edge @ 3m)											
WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak		
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg		
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)		
802.11n		5143.55	-26.36	-5.16	-21.2	-33.36	4.5	2.5	0	Р		
HT20		5150	-48.08	-6.88	-41.2	-55.08	4.5	2.5	0	Α		
CH 36	*	5181	16.16	-	-	9.16	4.5	2.5	0	Р		
5180MHz	*	5181	7.16	-	-	0.16	4.5	2.5	0	Α		
		5147.9	-39.59	-18.39	-21.2	-46.59	4.5	2.5	0	Р		
802.11n		5116.85	-50.58	-9.38	-41.2	-57.58	4.5	2.5	0	Α		
HT20	*	5221	15.81	-	-	8.81	4.5	2.5	0	Р		
CH 44	*	5221	7.35	-	-	0.35	4.5	2.5	0	Α		
5220MHz		5350.22	-47.13	-25.93	-21.2	-54.13	4.5	2.5	0	Р		
		5424.8	-58.34	-17.14	-41.2	-65.34	4.5	2.5	0	Α		
802.11n		5134.4	-40.46	-19.26	-21.2	-47.46	4.5	2.5	0	Р		
HT20		5136.95	-50.71	-9.51	-41.2	-57.71	4.5	2.5	0	Α		
CH 48	*	5241	16.5	-	-	9.5	4.5	2.5	0	Р		
5240MHz	*	5241	7.44	-	-	0.44	4.5	2.5	0	А		
2												
802.11n		5147.45	-30.13	-8.93	-21.2	-37.13	4.5	2.5	0	Р		
HT20		5149.55	-48.75	-7.55	-41.2	-55.75	4.5	2.5	0	Α		
CH 36	*	5178	16.22	-	-	9.22	4.5	2.5	0	Р		
5180MHz	*	5178	7.58	-	-	0.58	4.5	2.5	0	Α		
		5112.95	-39.83	-18.63	-21.2	-46.83	4.5	2.5	0	Р		
802.11n		5114.75	-50.85	-9.65	-41.2	-57.85	4.5	2.5	0	Α		
HT20	*	5218	15.39	-	-	8.39	4.5	2.5	0	Р		
CH 44	*	5218	7.71	-	-	0.71	4.5	2.5	0	Α		
5220MHz		5379.37	-46.82	-25.62	-21.2	-53.82	4.5	2.5	0	Р		
_		5431.07	-57.97	-16.77	-41.2	-64.97	4.5	2.5	0	А		
802.11n		5134.25	-41.01	-19.81	-21.2	-48.01	4.5	2.5	0	Р		
HT20		5133.65	-50.74	-9.54	-41.2	-57.74	4.5	2.5	0	Α		
CH 48	*	5242	16.74	-	-	9.74	4.5	2.5	0	Р		
5240MHz	*	5242	7.82	-	-	0.82	4.5	2.5	0	А		

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15E 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

VA/IEI	Mata	F			In H140 (Ba			Oalda	0	Deele
WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant. 1		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Gain (dBi)	Loss (dB)	Factor (dB)	Avg (P/A)
•		5149.7	-32.02	-10.82	-21.2	-39.02	4.5	2.5	0	P
802.11n		5149.85	-48.54	-7.34	-41.2	-55.54	4.5	2.5	0	A
HT40	*	5193	7.77	-	-	0.77	4.5	2.5	0	P
CH 38	*	5193	-0.82	-	-	-7.82	4.5	2.5	0	A
5190MHz		5400.05	-48.6	-27.4	-21.2	-55.6	4.5	2.5	0	P
		5395.65	-60.13	-18.93	-41.2	-67.13	4.5	2.5	0	Α
		5136.8	-31.73	-10.53	-21.2	-38.73	4.5	2.5	0	Р
802.11n		5137.4	-50.33	-9.13	-41.2	-57.33	4.5	2.5	0	Α
HT40	*	5232	14.33	-	-	7.33	4.5	2.5	0	Р
CH 46	*	5232	5.35	-	-	-1.65	4.5	2.5	0	Α
5230MHz		5352.53	-43.77	-22.57	-21.2	-50.77	4.5	2.5	0	Р
		5350.11	-55.65	-14.45	-41.2	-62.65	4.5	2.5	0	А
2										
		5149.1	-34.44	-13.24	-21.2	-41.44	4.5	2.5	0	Р
802.11n		5149.55	-47.7	-6.5	-41.2	-54.7	4.5	2.5	0	Α
HT40	*	5191	8.14	-	-	1.14	4.5	2.5	0	Р
CH 38	*	5191	-0.32	-	-	-7.32	4.5	2.5	0	Α
5190MHz		5353.08	-48.72	-27.52	-21.2	-55.72	4.5	2.5	0	Р
		5396.75	-59.64	-18.44	-41.2	-66.64	4.5	2.5	0	Α
		5136.8	-33.07	-11.87	-21.2	-40.07	4.5	2.5	0	Р
802.11n		5137.4	-50.8	-9.6	-41.2	-57.8	4.5	2.5	0	Α
HT40	*	5232	14.63	-	-	7.63	4.5	2.5	0	Р
CH 46	*	5232	5.68	-	-	-1.32	4.5	2.5	0	Α
5230MHz		5354.07	-41.9	-20.7	-21.2	-48.9	4.5	2.5	0	Р
		5350	-55.13	-13.93	-41.2	-62.13	4.5	2.5	0	Α

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15E 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

	WIFI 802.11a (Band Edge @ 3m)											
WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak		
Ant.		/ 	(ID)//)	Limit	Line	Level	Gain	Loss	Factor	Avg		
1	*	(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)		
802.11a		5261	12.79	-	-	5.79	4.5	2.5	0	Р		
CH 52	*	5261	4.31	-	-	-2.69	4.5	2.5	0	A		
5260MHz		5367.16	-40.55	-19.35	-21.2	-47.55	4.5	2.5	0	Р		
		5364.85	-51.46	-10.26	-41.2	-58.46	4.5	2.5	0	Α		
		5029.1	-45.84	-24.64	-21.2	-52.84	4.5	2.5	0	Р		
000 44 -		5028.05	-56.18	-14.98	-41.2	-63.18	4.5	2.5	0	Α		
802.11a CH 60	*	5302	13.13	-	-	6.13	4.5	2.5	0	Р		
5300MHz	*	5302	4.51	-	-	-2.49	4.5	2.5	0	Α		
3300WII 12		5405.11	-42.31	-21.11	-21.2	-49.31	4.5	2.5	0	Р		
		5405.99	-52.71	-11.51	-41.2	-59.71	4.5	2.5	0	Α		
	*	5322	13.27	-	-	6.27	4.5	2.5	0	Р		
802.11a	*	5322	4.81	-	-	-2.19	4.5	2.5	0	Α		
CH 64 5320MHz		5354.07	-38.38	-17.18	-21.2	-45.38	4.5	2.5	0	Р		
3320WIF12		5350.99	-50.78	-9.58	-41.2	-57.78	4.5	2.5	0	Α		
2												
802.11a	*	5262	13.78	-	-	6.78	4.5	2.5	0	Р		
CH 52	*	5262	4.91	-	-	-2.09	4.5	2.5	0	Α		
5260MHz		5363.31	-40.8	-19.6	-21.2	-47.8	4.5	2.5	0	Р		
020011112		5366.06	-50.79	-9.59	-41.2	-57.79	4.5	2.5	0	Α		
		5028.5	-45.21	-24.01	-21.2	-52.21	4.5	2.5	0	Р		
000 11		5029.4	-56.38	-15.18	-41.2	-63.38	4.5	2.5	0	Α		
802.11a	*	5298	14.32	-	-	7.32	4.5	2.5	0	Р		
CH 60 5300MHz	*	5298	5	-	-	-2	4.5	2.5	0	А		
3300WII 12		5406.1	-41.62	-20.42	-21.2	-48.62	4.5	2.5	0	Р		
		5405.44	-51.65	-10.45	-41.2	-58.65	4.5	2.5	0	А		
	*	5319	13.74	-	-	6.74	4.5	2.5	0	Р		
802.11a	*	5319	5.21	-	-	-1.79	4.5	2.5	0	Α		
CH 64		5352.09	-37.08	-15.88	-21.2	-44.08	4.5	2.5	0	Р		
5320MHz		5424.69	-51.35	-10.15	-41.2	-58.35	4.5	2.5	0	А		

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15E 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Noto	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.	Note	Frequency	Levei	Limit	Limit	Level	Gain	Loss	Factor	Avg
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
802.11n	*	5260	12.64	-	-	5.64	4.5	2.5	0	Р
HT20	*	5260	4.3	-	-	-2.7	4.5	2.5	0	Α
CH 52		5365.84	-41.27	-20.07	-21.2	-48.27	4.5	2.5	0	Р
5260MHz		5365.62	-51.45	-10.25	-41.2	-58.45	4.5	2.5	0	Α
		5029.55	-46.21	-25.01	-21.2	-53.21	4.5	2.5	0	Р
802.11n		5027.75	-56.31	-15.11	-41.2	-63.31	4.5	2.5	0	Α
HT20	*	5301	12.7	-	-	5.7	4.5	2.5	0	Р
CH 60	*	5301	4.61	-	-	-2.39	4.5	2.5	0	Α
5300MHz		5400.71	-41.54	-20.34	-21.2	-48.54	4.5	2.5	0	Р
		5403.13	-52.6	-11.4	-41.2	-59.6	4.5	2.5	0	Α
802.11n	*	5318	12.92	-	-	5.92	4.5	2.5	0	Р
HT20	*	5318	4.5	-	-	-2.5	4.5	2.5	0	Α
CH 64		5354.51	-38.1	-16.9	-21.2	-45.1	4.5	2.5	0	Р
5320MHz		5427.22	-51.76	-10.56	-41.2	-58.76	4.5	2.5	0	А
2										
802.11n	*	5258	13.95	-	-	6.95	4.5	2.5	0	Р
HT20	*	5258	4.87	-	-	-2.13	4.5	2.5	0	Α
CH 52		5364.96	-40.57	-19.37	-21.2	-47.57	4.5	2.5	0	Р
5260MHz		5363.2	-51.21	-10.01	-41.2	-58.21	4.5	2.5	0	Α
		5030	-45.97	-24.77	-21.2	-52.97	4.5	2.5	0	Р
802.11n		5027.15	-55.98	-14.78	-41.2	-62.98	4.5	2.5	0	Α
HT20	*	5298	13.53	-	-	6.53	4.5	2.5	0	Р
CH 60	*	5298	5.02	-	-	-1.98	4.5	2.5	0	Α
5300MHz		5355.28	-40.18	-18.98	-21.2	-47.18	4.5	2.5	0	Р
		5405.44	-52	-10.8	-41.2	-59	4.5	2.5	0	Α
802.11n	*	5322	13.41	-	-	6.41	4.5	2.5	0	Р
HT20	*	5322	4.96	-	-	-2.04	4.5	2.5	0	Α
CH 64		5352.31	-34.37	-13.17	-21.2	-41.37	4.5	2.5	0	Р
5320MHz		5425.57	-51.28	-10.08	-41.2	-58.28	4.5	2.5	0	Α

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15E 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		5146.4	-43.55	-22.35	-21.2	-50.55	4.5	2.5	0	Р
802.11n		5150	-55.16	-13.96	-41.2	-62.16	4.5	2.5	0	Α
HT40	*	5268	14.02	-	-	7.02	4.5	2.5	0	Р
CH 54	*	5268	5.29	-	-	-1.71	4.5	2.5	0	Α
5270MHz		5350.66	-33.26	-12.06	-21.2	-40.26	4.5	2.5	0	Р
		5365.29	-50.67	-9.47	-41.2	-57.67	4.5	2.5	0	Α
		5114.15	-49.55	-28.35	-21.2	-56.55	4.5	2.5	0	Р
802.11n		5042.3	-60.8	-19.6	-41.2	-67.8	4.5	2.5	0	Α
HT40	*	5308	8.17	-	-	1.17	4.5	2.5	0	Р
CH 62	*	5308	-0.25	-	-	-7.25	4.5	2.5	0	Α
5310MHz		5350.88	-30.5	-9.3	-21.2	-37.5	4.5	2.5	0	Р
		5350	-47.44	-6.24	-41.2	-54.44	4.5	2.5	0	Α
2										
		5150	-43.58	-22.38	-21.2	-50.58	4.5	2.5	0	Р
802.11n		5149.85	-55.39	-14.19	-41.2	-62.39	4.5	2.5	0	Α
HT40	*	5272	15.32	-	-	8.32	4.5	2.5	0	Р
CH 54	*	5272	5.84	-	-	-1.16	4.5	2.5	0	Α
5270MHz		5350.77	-32.84	-11.64	-21.2	-39.84	4.5	2.5	0	Р
		5376.18	-50.18	-8.98	-41.2	-57.18	4.5	2.5	0	Α
		5126.6	-50.05	-28.85	-21.2	-57.05	4.5	2.5	0	Р
802.11n		5134.85	-60.88	-19.68	-41.2	-67.88	4.5	2.5	0	Α
HT40	*	5312	8.64	-	-	1.64	4.5	2.5	0	Р
CH 62	*	5312	0.28	-	-	-6.72	4.5	2.5	0	Α
5310MHz		5350.99	-29.84	-8.64	-21.2	-36.84	4.5	2.5	0	Р
		5351.1	-45.6	-4.4	-41.2	-52.6	4.5	2.5	0	Α

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15E 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI 802.11a (Band Edge @ 3m)											
WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak	
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)	
802.11a		5466.64	-32.17	-10.97	-21.2	-39.17	4.5	2.5	0	P .	
CH 100		5469.84	-48.39	-7.19	-41.2	-55.39	4.5	2.5	0	A	
5500MHz	*	5499	14.06	-	-	7.06	4.5	2.5	0	Р	
	*	5499	5.62	-	-	-1.38	4.5	2.5	0	Α	
		5467.76	-36.47	-15.27	-21.2	-43.47	4.5	2.5	0	Р	
000 44 -		5469.84	-50.69	-9.49	-41.2	-57.69	4.5	2.5	0	Α	
802.11a CH 116	*	5579	17.2	-	-	10.2	4.5	2.5	0	Р	
5580MHz	*	5579	9.81	-	-	2.81	4.5	2.5	0	Α	
3300WII 12		5726.84	-45.71	-24.51	-21.2	-52.71	4.5	2.5	0	Р	
		5726.68	-58.82	-17.62	-41.2	-65.82	4.5	2.5	0	Α	
	*	5699	12.59	-	-	5.59	4.5	2.5	0	Р	
802.11a	*	5699	3.87	-	-	-3.13	4.5	2.5	0	А	
CH 140		5725.32	-32.89	-11.69	-21.2	-39.89	4.5	2.5	0	Р	
5700MHz		5725.08	-49.8	-8.6	-41.2	-56.8	4.5	2.5	0	Α	
2											
000.44		5469.52	-30.55	-9.35	-21.2	-37.55	4.5	2.5	0	Р	
802.11a		5470	-48.08	-6.88	-41.2	-55.08	4.5	2.5	0	Α	
CH 100 5500MHz	*	5499	14.68	-	-	7.68	4.5	2.5	0	Р	
3300WIF12	*	5499	6.49	-	-	-0.51	4.5	2.5	0	Α	
		5469.36	-39.51	-18.31	-21.2	-46.51	4.5	2.5	0	Р	
		5469.68	-49.17	-7.97	-41.2	-56.17	4.5	2.5	0	Α	
802.11a	*	5581	18.61	-	-	11.61	4.5	2.5	0	Р	
CH 116 5580MHz	*	5581	10.2	-	-	3.2	4.5	2.5	0	А	
3360WITI2		5731.24	-46.36	-25.16	-21.2	-53.36	4.5	2.5	0	Р	
		5729.8	-59.1	-17.9	-41.2	-66.1	4.5	2.5	0	Α	
	*	5701	13.56	-	-	6.56	4.5	2.5	0	Р	
802.11a	*	5701	3.81	-	-	-3.19	4.5	2.5	0	А	
CH 140		5726.92	-31.34	-10.14	-21.2	-38.34	4.5	2.5	0	Р	
5700MHz		5725.24	-50.02	-8.82	-41.2	-57.02	4.5	2.5	0	Α	

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WIFI 802.11n HT20 (Band Edge @ 3m)

				VVII 1 002.1	1n HT20 (Ba	and Luge &	g 3111)			
WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.		(8411)	(15)(()	Limit	Line	Level	Gain	Loss	Factor	Avg
1		(MHz)	(dBµV/m) -29.82	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A) P
802.11n		5468.88		-8.62	-21.2	-36.82	4.5	2.5	0	
HT20		5470	-49.06	-7.86	-41.2	-56.06	4.5	2.5	0	A
CH 100	*	5499	13.85	-	-	6.85	4.5	2.5	0	Р
5500MHz	*	5499	5.15	-	-	-1.85	4.5	2.5	0	Α
		5469.2	-40.57	-19.37	-21.2	-47.57	4.5	2.5	0	Р
802.11n		5470	-50.78	-9.58	-41.2	-57.78	4.5	2.5	0	Α
HT20	*	5581	17.57	-	-	10.57	4.5	2.5	0	Р
CH 116	*	5581	9.1	-	-	2.1	4.5	2.5	0	Α
5580MHz		5725.64	-45.13	-23.93	-21.2	-52.13	4.5	2.5	0	Р
		5730.12	-58.78	-17.58	-41.2	-65.78	4.5	2.5	0	Α
802.11n	*	5699	12.03	-	-	5.03	4.5	2.5	0	Р
HT20	*	5699	3.59	-	-	-3.41	4.5	2.5	0	Α
CH 140		5727.32	-31.92	-10.72	-21.2	-38.92	4.5	2.5	0	Р
5700MHz		5725.08	-49.41	-8.21	-41.2	-56.41	4.5	2.5	0	Α
2										
802.11n		5469.84	-28.85	-7.65	-21.2	-35.85	4.5	2.5	0	Р
HT20		5469.84	-46.83	-5.63	-41.2	-53.83	4.5	2.5	0	Α
CH 100	*	5502	14.73	-	-	7.73	4.5	2.5	0	Р
5500MHz	*	5502	6.39	-	-	-0.61	4.5	2.5	0	Α
		5470	-40.38	-19.18	-21.2	-47.38	4.5	2.5	0	Р
802.11n		5469.04	-49.95	-8.75	-41.2	-56.95	4.5	2.5	0	Α
HT20	*	5578	17.98	-	-	10.98	4.5	2.5	0	Р
CH 116	*	5578	9.78	-	-	2.78	4.5	2.5	0	Α
5580MHz		5730.76	-45.81	-24.61	-21.2	-52.81	4.5	2.5	0	Р
		5728.36	-58.89	-17.69	-41.2	-65.89	4.5	2.5	0	Α
802.11n	*	5698	12.82	-	-	5.82	4.5	2.5	0	Р
HT20	*	5698	4.13	-	-	-2.87	4.5	2.5	0	А
CH 140		5729.96	-32.75	-11.55	-21.2	-39.75	4.5	2.5	0	Р
5700MHz		5725.16	-49.56	-8.36	-41.2	-56.56	4.5	2.5	0	Α

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WIFI 802.11n HT40 (Band Edge @ 3m)

				VVII 1 002.1	1n HT40 (Ba	and Luge &	g 3111)			
WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.		(8411)	(ID)(()	Limit	Line	Level	Gain	Loss	Factor	Avg
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A) P
802.11n		5469.82	-24.71	-3.51	-21.2	-31.71	4.5	2.5	0	
HT40		5470	-44.25	-3.05	-41.2	-51.25	4.5	2.5	0	A
CH 102	*	5512	6.92	-	-	-0.08	4.5	2.5	0	Р
5510MHz	*	5512	-1.57	-	-	-8.57	4.5	2.5	0	Α
		5467.44	-26.45	-5.25	-21.2	-33.45	4.5	2.5	0	Р
802.11n		5469.84	-43.86	-2.66	-41.2	-50.86	4.5	2.5	0	Α
HT40	*	5552	13.6	-	-	6.6	4.5	2.5	0	Р
CH 110	*	5552	4.72	-	-	-2.28	4.5	2.5	0	Α
5550MHz		5727.8	-46.65	-25.45	-21.2	-53.65	4.5	2.5	0	Р
		5751.08	-58.79	-17.59	-41.2	-65.79	4.5	2.5	0	Α
802.11n	*	5675	9.84	-	-	2.84	4.5	2.5	0	Р
HT40	*	5675	1.33	-	-	-5.67	4.5	2.5	0	Α
CH 134		5733.08	-36.55	-15.35	-21.2	-43.55	4.5	2.5	0	Р
5670MHz		5746.12	-53.04	-11.84	-41.2	-60.04	4.5	2.5	0	Α
2										
802.11n		5469.82	-22.81	-1.61	-21.2	-29.81	4.5	2.5	0	Р
HT40		5470	-41.98	<mark>-0.78</mark>	-41.2	-48.98	4.5	2.5	0	Α
CH 102	*	5512	8.22	-	-	1.22	4.5	2.5	0	Р
5510MHz	*	5512	-0.54	-	-	-7.54	4.5	2.5	0	Α
		5469.68	-26.14	-4.94	-21.2	-33.14	4.5	2.5	0	Р
802.11n		5470	-45.08	-3.88	-41.2	-52.08	4.5	2.5	0	Α
HT40	*	5548	13.9	-	-	6.9	4.5	2.5	0	Р
CH 110	*	5548	5.53	-	-	-1.47	4.5	2.5	0	Α
5550MHz		5729.8	-47.74	-26.54	-21.2	-54.74	4.5	2.5	0	Р
		5753.48	-58.88	-17.68	-41.2	-65.88	4.5	2.5	0	Α
802.11n	*	5668	10.56	-	-	3.56	4.5	2.5	0	Р
HT40	*	5668	1.36	-	-	-5.64	4.5	2.5	0	Α
CH 134		5733.08	-32.66	-11.46	-21.2	-39.66	4.5	2.5	0	Р
5670MHz		5751.24	-52.43	-11.23	-41.2	-59.43	4.5	2.5	0	А

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3.4.7 Test Result of Conducted Spurious Emission in the Restricted Band

15E 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		120.45	-60.63	-8.93	-51.7	-72.33	4.5	2.5	4.7	Р
		161.76	-60.39	-8.69	-51.7	-72.09	4.5	2.5	4.7	Р
000.44		220.08	-60.65	-11.45	-49.2	-72.35	4.5	2.5	4.7	Р
802.11a CH 36		533.1	-60.47	-11.27	-49.2	-72.17	4.5	2.5	4.7	Р
5180MHz		694.1	-59.79	-10.59	-49.2	-71.49	4.5	2.5	4.7	Р
3100WI112		839.7	-59.66	-10.46	-49.2	-71.36	4.5	2.5	4.7	Р
		10360	-66.68	-45.48	-21.2	-73.68	4.5	2.5	0	Р
		15540	-54.34	-33.14	-21.2	-61.34	4.5	2.5	0	Р
		113.7	-59.25	-7.55	-51.7	-70.95	4.5	2.5	4.7	Р
		180.39	-60.99	-9.29	-51.7	-72.69	4.5	2.5	4.7	Р
		232.23	-60.84	-11.64	-49.2	-72.54	4.5	2.5	4.7	Р
802.11a		419	-60.73	-11.53	-49.2	-72.43	4.5	2.5	4.7	Р
CH 44 5220MHz		602.4	-59.93	-10.73	-49.2	-71.63	4.5	2.5	4.7	Р
JZZOWII IZ		794.9	-60.29	-11.09	-49.2	-71.99	4.5	2.5	4.7	Р
		10440	-64.26	-43.06	-21.2	-71.26	4.5	2.5	0	Р
		15660	-55.17	-33.97	-21.2	-62.17	4.5	2.5	0	Р
		91.02	-59.55	-7.85	-51.7	-71.25	4.5	2.5	4.7	Р
		209.28	-60.95	-9.25	-51.7	-72.65	4.5	2.5	4.7	Р
		255.45	-60.02	-10.82	-49.2	-71.72	4.5	2.5	4.7	Р
802.11a		435.1	-60.7	-11.5	-49.2	-72.4	4.5	2.5	4.7	Р
CH 48 5240MHz		630.4	-61.43	-12.23	-49.2	-73.13	4.5	2.5	4.7	Р
5240WII12		853.7	-60.57	-11.37	-49.2	-72.27	4.5	2.5	4.7	Р
		10480	-63.69	-42.49	-21.2	-70.69	4.5	2.5	0	Р
		15720	-54.96	-33.76	-21.2	-61.96	4.5	2.5	0	Р

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WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		67.8	-60.37	-5.17	-55.2	-72.07	4.5	2.5	4.7	Р
		163.92	-60.63	-8.93	-51.7	-72.33	4.5	2.5	4.7	Р
000 44 -		262.2	-61.25	-12.05	-49.2	-72.95	4.5	2.5	4.7	Р
802.11a CH 36		442.8	-60.32	-11.12	-49.2	-72.02	4.5	2.5	4.7	Р
5180MHz		554.8	-60.2	-11	-49.2	-71.9	4.5	2.5	4.7	Р
310011112		829.2	-60.51	-11.31	-49.2	-72.21	4.5	2.5	4.7	Р
		10360	-66.19	-44.99	-21.2	-73.19	4.5	2.5	0	Р
		15540	-53.86	-32.66	-21.2	-60.86	4.5	2.5	0	Р
		140.7	-60.37	-8.67	-51.7	-72.07	4.5	2.5	4.7	Р
		196.32	-60.91	-9.21	-51.7	-72.61	4.5	2.5	4.7	Р
		251.94	-60.54	-11.34	-49.2	-72.24	4.5	2.5	4.7	Р
802.11a		603.8	-60.39	-11.19	-49.2	-72.09	4.5	2.5	4.7	Р
CH 44 5220MHz		706.7	-60.43	-11.23	-49.2	-72.13	4.5	2.5	4.7	Р
3220WITZ		947.5	-59.42	-10.22	-49.2	-71.12	4.5	2.5	4.7	Р
		10440	-64.85	-43.65	-21.2	-71.85	4.5	2.5	0	Р
		15660	-53.5	-32.3	-21.2	-60.5	4.5	2.5	0	Р
		100.47	-60.97	-9.27	-51.7	-72.67	4.5	2.5	4.7	Р
		154.47	-61.78	-10.08	-51.7	-73.48	4.5	2.5	4.7	Р
		255.99	-61.39	-12.19	-49.2	-73.09	4.5	2.5	4.7	Р
802.11a		419.7	-60.3	-11.1	-49.2	-72	4.5	2.5	4.7	Р
CH 48		601.7	-59.58	-10.38	-49.2	-71.28	4.5	2.5	4.7	Р
5240MHz		879.6	-60.57	-11.37	-49.2	-72.27	4.5	2.5	4.7	Р
		10480	-64.44	-43.24	-21.2	-71.44	4.5	2.5	0	Р
		15720	-55.75	-34.55	-21.2	-62.75	4.5	2.5	0	Р

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WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		57.54	-62.05	-6.85	-55.2	-73.75	4.5	2.5	4.7	Р
		147.18	-62.36	-10.66	-51.7	-74.06	4.5	2.5	4.7	Р
802.11n		238.44	-63.2	-14	-49.2	-74.9	4.5	2.5	4.7	Р
HT20		518.4	-61.66	-12.46	-49.2	-73.36	4.5	2.5	4.7	Р
CH 36		700.4	-60.64	-11.44	-49.2	-72.34	4.5	2.5	4.7	Р
5180MHz		839	-61.98	-12.78	-49.2	-73.68	4.5	2.5	4.7	Р
		10360	-66.26	-45.06	-21.2	-73.26	4.5	2.5	0	Р
		15540	-54.03	-32.83	-21.2	-61.03	4.5	2.5	0	Р
		97.5	-60.87	-9.17	-51.7	-72.57	4.5	2.5	4.7	Р
		162.3	-60.7	-9	-51.7	-72.4	4.5	2.5	4.7	Р
802.11n		227.64	-60.75	-11.55	-49.2	-72.45	4.5	2.5	4.7	Р
HT20		435.1	-61.06	-11.86	-49.2	-72.76	4.5	2.5	4.7	Р
CH 44		654.9	-60.74	-11.54	-49.2	-72.44	4.5	2.5	4.7	Р
5220MHz		750.1	-60.79	-11.59	-49.2	-72.49	4.5	2.5	4.7	Р
		10440	-63.84	-42.64	-21.2	-70.84	4.5	2.5	0	Р
		15660	-54.57	-33.37	-21.2	-61.57	4.5	2.5	0	Р
		110.46	-61	-9.3	-51.7	-72.7	4.5	2.5	4.7	Р
		176.61	-61.14	-9.44	-51.7	-72.84	4.5	2.5	4.7	Р
802.11n		225.75	-60.81	-11.61	-49.2	-72.51	4.5	2.5	4.7	Р
HT20		471.5	-59.69	-10.49	-49.2	-71.39	4.5	2.5	4.7	Р
CH 48		675.2	-58.89	-9.69	-49.2	-70.59	4.5	2.5	4.7	Р
5240MHz		947.5	-59.23	-10.03	-49.2	-70.93	4.5	2.5	4.7	Р
		10480	-63.84	-42.64	-21.2	-70.84	4.5	2.5	0	Р
		15720	-54.92	-33.72	-21.2	-61.92	4.5	2.5	0	Р

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WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		91.02	-60.37	-8.67	-51.7	-72.07	4.5	2.5	4.7	Р
		168.78	-60.78	-9.08	-51.7	-72.48	4.5	2.5	4.7	Р
802.11n		248.97	-61.02	-11.82	-49.2	-72.72	4.5	2.5	4.7	Р
HT20		430.9	-60.7	-11.5	-49.2	-72.4	4.5	2.5	4.7	Р
CH 36		638.8	-60.74	-11.54	-49.2	-72.44	4.5	2.5	4.7	Р
5180MHz		869.1	-59.35	-10.15	-49.2	-71.05	4.5	2.5	4.7	Р
		10360	-66.27	-45.07	-21.2	-73.27	4.5	2.5	0	Р
		15540	-54.46	-33.26	-21.2	-61.46	4.5	2.5	0	Р
		121.26	-60.99	-9.29	-51.7	-72.69	4.5	2.5	4.7	Р
		159.6	-60.63	-8.93	-51.7	-72.33	4.5	2.5	4.7	Р
802.11n		259.77	-61.36	-12.16	-49.2	-73.06	4.5	2.5	4.7	Р
HT20		668.2	-60.96	-11.76	-49.2	-72.66	4.5	2.5	4.7	Р
CH 44		724.9	-59.05	-9.85	-49.2	-70.75	4.5	2.5	4.7	Р
5220MHz		773.2	-63.36	-14.16	-49.2	-75.06	4.5	2.5	4.7	Р
		10440	-64.49	-43.29	-21.2	-71.49	4.5	2.5	0	Р
		15660	-54.85	-33.65	-21.2	-61.85	4.5	2.5	0	Р
		140.7	-60.83	-9.13	-51.7	-72.53	4.5	2.5	4.7	Р
		237.9	-60.03	-10.83	-49.2	-71.73	4.5	2.5	4.7	Р
802.11n		265.44	-59.73	-10.53	-49.2	-71.43	4.5	2.5	4.7	Р
HT20		595.4	-60.61	-11.41	-49.2	-72.31	4.5	2.5	4.7	Р
CH 48		673.1	-60.19	-10.99	-49.2	-71.89	4.5	2.5	4.7	Р
5240MHz		874	-58.81	-9.61	-49.2	-70.51	4.5	2.5	4.7	Р
		10480	-64.29	-43.09	-21.2	-71.29	4.5	2.5	0	Р
		15720	-55.71	-34.51	-21.2	-62.71	4.5	2.5	0	Р

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WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		153.66	-60.92	-9.22	-51.7	-72.62	4.5	2.5	4.7	Р
		177.42	-60.76	-9.06	-51.7	-72.46	4.5	2.5	4.7	Р
802.11n		238.17	-60.55	-11.35	-49.2	-72.25	4.5	2.5	4.7	Р
HT40		487.6	-58.92	-9.72	-49.2	-70.62	4.5	2.5	4.7	Р
CH 38		679.4	-60.39	-11.19	-49.2	-72.09	4.5	2.5	4.7	Р
5190MHz		904.8	-59.98	-10.78	-49.2	-71.68	4.5	2.5	4.7	Р
		10380	-64.74	-43.54	-21.2	-71.74	4.5	2.5	0	Р
		15570	-53.64	-32.44	-21.2	-60.64	4.5	2.5	0	Р
		85.89	-60.24	-5.04	-55.2	-71.94	4.5	2.5	4.7	Р
		121.26	-60.58	-8.88	-51.7	-72.28	4.5	2.5	4.7	Р
802.11n		176.88	-60.02	-8.32	-51.7	-71.72	4.5	2.5	4.7	Р
HT40		414.1	-60.76	-11.56	-49.2	-72.46	4.5	2.5	4.7	Р
CH 46		540.8	-60.71	-11.51	-49.2	-72.41	4.5	2.5	4.7	Р
5230MHz		649.3	-60.93	-11.73	-49.2	-72.63	4.5	2.5	4.7	Р
		10460	-64.48	-43.28	-21.2	-71.48	4.5	2.5	0	Р
		15690	-53.7	-32.5	-21.2	-60.7	4.5	2.5	0	Р

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WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		85.89	-60.24	-5.04	-55.2	-71.94	4.5	2.5	4.7	Р
		121.26	-60.58	-8.88	-51.7	-72.28	4.5	2.5	4.7	Р
802.11n		176.88	-60.02	-8.32	-51.7	-71.72	4.5	2.5	4.7	Р
HT40		414.1	-60.76	-11.56	-49.2	-72.46	4.5	2.5	4.7	Р
CH 38		540.8	-60.71	-11.51	-49.2	-72.41	4.5	2.5	4.7	Р
5190MHz		649.3	-60.93	-11.73	-49.2	-72.63	4.5	2.5	4.7	Р
		10460	-64.48	-43.28	-21.2	-71.48	4.5	2.5	0	Р
		15690	-53.7	-32.5	-21.2	-60.7	4.5	2.5	0	Р
		78.33	-59.69	-4.49	-55.2	-71.39	4.5	2.5	4.7	Р
		163.11	-60.6	-8.9	-51.7	-72.3	4.5	2.5	4.7	Р
802.11n		209.82	-60.92	-9.22	-51.7	-72.62	4.5	2.5	4.7	Р
HT40		410.6	-60.47	-11.27	-49.2	-72.17	4.5	2.5	4.7	Р
CH 46		640.2	-63.01	-13.81	-49.2	-74.71	4.5	2.5	4.7	Р
5230MHz		869.1	-59.79	-10.59	-49.2	-71.49	4.5	2.5	4.7	Р
		10460	-64.47	-43.27	-21.2	-71.47	4.5	2.5	0	Р
		15690	-54.72	-33.52	-21.2	-61.72	4.5	2.5	0	Р

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WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		71.85	-60.23	-5.03	-55.2	-71.93	4.5	2.5	4.7	Р
		136.65	-61.03	-9.33	-51.7	-72.73	4.5	2.5	4.7	Р
000 44 -		230.61	-60.11	-10.91	-49.2	-71.81	4.5	2.5	4.7	Р
802.11a CH 52		510	-60.23	-11.03	-49.2	-71.93	4.5	2.5	4.7	Р
5260MHz		664	-60.88	-11.68	-49.2	-72.58	4.5	2.5	4.7	Р
0200M112		825	-60.41	-11.21	-49.2	-72.11	4.5	2.5	4.7	Р
		10520	-64.74	-43.54	-21.2	-71.74	4.5	2.5	0	Р
		15780	-55.92	-34.72	-21.2	-62.92	4.5	2.5	0	Р
		72.12	-60.57	-5.37	-55.2	-72.27	4.5	2.5	4.7	Р
		123.42	-60.4	-8.7	-51.7	-72.1	4.5	2.5	4.7	Р
		230.88	-60.67	-11.47	-49.2	-72.37	4.5	2.5	4.7	Р
802.11a		365.8	-60.19	-10.99	-49.2	-71.89	4.5	2.5	4.7	Р
CH 60 5300MHz		600.3	-60.93	-11.73	-49.2	-72.63	4.5	2.5	4.7	Р
3300WII 12		755.7	-59.75	-10.55	-49.2	-71.45	4.5	2.5	4.7	Р
		10600	-63.46	-42.26	-21.2	-70.46	4.5	2.5	0	Р
		15900	-56.75	-35.55	-21.2	-63.75	4.5	2.5	0	Р
		94.53	-60.12	-8.42	-51.7	-71.82	4.5	2.5	4.7	Р
		146.64	-60.97	-9.27	-51.7	-72.67	4.5	2.5	4.7	Р
		267.06	-60.4	-11.2	-49.2	-72.1	4.5	2.5	4.7	Р
802.11a		479.9	-60.51	-11.31	-49.2	-72.21	4.5	2.5	4.7	Р
CH 64 5320MHz		658.4	-60.2	-11	-49.2	-71.9	4.5	2.5	4.7	Р
JOZUIVITIZ		896.4	-60.51	-11.31	-49.2	-72.21	4.5	2.5	4.7	Р
		10640	-63.81	-42.61	-21.2	-70.81	4.5	2.5	0	Р
		15960	-55.04	-33.84	-21.2	-62.04	4.5	2.5	0	Р

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WIFI 802.11a (Harmonic @ 3m)

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WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Gain (dBi)	Loss (dB)	Factor (dB)	Avg (P/A)
		145.02	-61.02	-9.32	-51.7	-72.72	4.5	2.5	4.7	P
		176.88	-59.5	-7.8	-51.7	-71.2	4.5	2.5	4.7	Р
		234.93	-60.58	-11.38	-49.2	-72.28	4.5	2.5	4.7	Р
802.11a		510.7	-60.44	-11.24	-49.2	-72.14	4.5	2.5	4.7	Р
CH 52 5260MHz		722.8	-59.03	-9.83	-49.2	-70.73	4.5	2.5	4.7	Р
3200WITZ		912.5	-59.98	-10.78	-49.2	-71.68	4.5	2.5	4.7	Р
		10520	-63.62	-42.42	-21.2	-70.62	4.5	2.5	0	Р
		15780	-55.5	-34.3	-21.2	-62.5	4.5	2.5	0	Р
		142.86	-60.1	-8.4	-51.7	-71.8	4.5	2.5	4.7	Р
		198.75	-60.73	-9.03	-51.7	-72.43	4.5	2.5	4.7	Р
000 44		253.83	-61.06	-11.86	-49.2	-72.76	4.5	2.5	4.7	Р
802.11a CH 60		398.7	-61.27	-12.07	-49.2	-72.97	4.5	2.5	4.7	Р
5300MHz		603.1	-60.67	-11.47	-49.2	-72.37	4.5	2.5	4.7	Р
330011112		776.7	-60.45	-11.25	-49.2	-72.15	4.5	2.5	4.7	Р
		10600	-64.29	-43.09	-21.2	-71.29	4.5	2.5	0	Р
		15900	-56.6	-35.4	-21.2	-63.6	4.5	2.5	0	Р
		86.7	-60.28	-5.08	-55.2	-71.98	4.5	2.5	4.7	Р
		160.68	-60.75	-9.05	-51.7	-72.45	4.5	2.5	4.7	Р
000 44 -		214.95	-60.23	-8.53	-51.7	-71.93	4.5	2.5	4.7	Р
802.11a CH 64		482.7	-60.57	-11.37	-49.2	-72.27	4.5	2.5	4.7	Р
5320MHz		679.4	-60.61	-11.41	-49.2	-72.31	4.5	2.5	4.7	Р
3020HII IZ		791.4	-60.73	-11.53	-49.2	-72.43	4.5	2.5	4.7	Р
		10640	-64.86	-43.66	-21.2	-71.86	4.5	2.5	0	Р
		15960	-55.33	-34.13	-21.2	-62.33	4.5	2.5	0	Р

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WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		144.48	-60.13	-8.43	-51.7	-71.83	4.5	2.5	4.7	Р
		186.33	-60.27	-8.57	-51.7	-71.97	4.5	2.5	4.7	Р
802.11n		295.68	-60.41	-11.21	-49.2	-72.11	4.5	2.5	4.7	Р
HT20		571.6	-60.85	-11.65	-49.2	-72.55	4.5	2.5	4.7	Р
CH 52		810.3	-59.54	-10.34	-49.2	-71.24	4.5	2.5	4.7	Р
5260MHz		988.8	-60.45	-19.25	-41.2	-72.15	4.5	2.5	4.7	Р
		10520	-63.53	-42.33	-21.2	-70.53	4.5	2.5	0	Р
		15780	-55.7	-34.5	-21.2	-62.7	4.5	2.5	0	Р
		116.94	-60.39	-8.69	-51.7	-72.09	4.5	2.5	4.7	Р
		174.18	-60.24	-8.54	-51.7	-71.94	4.5	2.5	4.7	Р
802.11n		261.66	-59.48	-10.28	-49.2	-71.18	4.5	2.5	4.7	Р
HT20		432.3	-59.57	-10.37	-49.2	-71.27	4.5	2.5	4.7	Р
CH 60		497.4	-60.47	-11.27	-49.2	-72.17	4.5	2.5	4.7	Р
5300MHz		690.6	-59.57	-10.37	-49.2	-71.27	4.5	2.5	4.7	Р
		10600	-65.42	-44.22	-21.2	-72.42	4.5	2.5	0	Р
		15900	-56.36	-35.16	-21.2	-63.36	4.5	2.5	0	Р
		151.5	-60.57	-8.87	-51.7	-72.27	4.5	2.5	4.7	Р
		193.08	-60.3	-8.6	-51.7	-72	4.5	2.5	4.7	Р
802.11n		277.32	-59.95	-10.75	-49.2	-71.65	4.5	2.5	4.7	Р
HT20		426.7	-60.91	-11.71	-49.2	-72.61	4.5	2.5	4.7	Р
CH 64		731.2	-60.53	-11.33	-49.2	-72.23	4.5	2.5	4.7	Р
5320MHz		951	-60.39	-11.19	-49.2	-72.09	4.5	2.5	4.7	Р
		10640	-64.94	-43.74	-21.2	-71.94	4.5	2.5	0	Р
		15960	-55.48	-34.28	-21.2	-62.48	4.5	2.5	0	Р

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WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		88.05	-61.56	-9.86	-51.7	-73.26	4.5	2.5	4.7	Р
		162.03	-61.14	-9.44	-51.7	-72.84	4.5	2.5	4.7	Р
802.11n		203.61	-60.84	-9.14	-51.7	-72.54	4.5	2.5	4.7	Р
HT20		399.4	-61.14	-11.94	-49.2	-72.84	4.5	2.5	4.7	Р
CH 52		533.1	-60.88	-11.68	-49.2	-72.58	4.5	2.5	4.7	Р
5260MHz		766.9	-60.19	-10.99	-49.2	-71.89	4.5	2.5	4.7	Р
		10520	-65.87	-44.67	-21.2	-72.87	4.5	2.5	0	Р
		15780	-56.99	-35.79	-21.2	-63.99	4.5	2.5	0	Р
		113.7	-60.37	-8.67	-51.7	-72.07	4.5	2.5	4.7	Р
		184.17	-60.3	-8.6	-51.7	-72	4.5	2.5	4.7	Р
802.11n		263.82	-61.1	-11.9	-49.2	-72.8	4.5	2.5	4.7	Р
HT20		521.9	-60.57	-11.37	-49.2	-72.27	4.5	2.5	4.7	Р
CH 60		603.8	-60.73	-11.53	-49.2	-72.43	4.5	2.5	4.7	Р
5300MHz		854.4	-60.65	-11.45	-49.2	-72.35	4.5	2.5	4.7	Р
		10600	-65.6	-44.4	-21.2	-72.6	4.5	2.5	0	Р
		15900	-55.59	-34.39	-21.2	-62.59	4.5	2.5	0	Р
		140.7	-60.41	-8.71	-51.7	-72.11	4.5	2.5	4.7	Р
		179.31	-60.4	-8.7	-51.7	-72.1	4.5	2.5	4.7	Р
802.11n		262.2	-60.67	-11.47	-49.2	-72.37	4.5	2.5	4.7	Р
HT20		488.3	-60.76	-11.56	-49.2	-72.46	4.5	2.5	4.7	Р
CH 64		685.7	-60.54	-11.34	-49.2	-72.24	4.5	2.5	4.7	Р
5320MHz		792.1	-60.17	-10.97	-49.2	-71.87	4.5	2.5	4.7	Р
		10640	-63.82	-42.62	-21.2	-70.82	4.5	2.5	0	Р
		15960	-54.74	-33.54	-21.2	-61.74	4.5	2.5	0	Р

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WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		80.76	-60.46	-5.26	-55.2	-72.16	4.5	2.5	4.7	Р
		156.9	-60.52	-8.82	-51.7	-72.22	4.5	2.5	4.7	Р
802.11n		268.14	-60.33	-11.13	-49.2	-72.03	4.5	2.5	4.7	Р
HT40		490.4	-60.77	-11.57	-49.2	-72.47	4.5	2.5	4.7	Р
CH 54		779.5	-60.53	-11.33	-49.2	-72.23	4.5	2.5	4.7	Р
5270MHz		902	-60.54	-11.34	-49.2	-72.24	4.5	2.5	4.7	Р
		10540	-64.45	-43.25	-21.2	-71.45	4.5	2.5	0	Р
		15810	-54.88	-33.68	-21.2	-61.88	4.5	2.5	0	Р
		64.56	-60.05	-4.85	-55.2	-71.75	4.5	2.5	4.7	Р
		129.09	-60.7	-9	-51.7	-72.4	4.5	2.5	4.7	Р
802.11n		187.14	-59.69	-7.99	-51.7	-71.39	4.5	2.5	4.7	Р
HT40		420.4	-60.74	-11.54	-49.2	-72.44	4.5	2.5	4.7	Р
CH 62		555.5	-60.53	-11.33	-49.2	-72.23	4.5	2.5	4.7	Р
5310MHz		745.9	-59.25	-10.05	-49.2	-70.95	4.5	2.5	4.7	Р
		10620	-63.05	-41.85	-21.2	-70.05	4.5	2.5	0	Р
		15930	-54.7	-33.5	-21.2	-61.7	4.5	2.5	0	Р

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WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		131.25	-59.29	-7.59	-51.7	-70.99	4.5	2.5	4.7	Р
		168.78	-60.57	-8.87	-51.7	-72.27	4.5	2.5	4.7	Р
802.11n		244.65	-60.83	-11.63	-49.2	-72.53	4.5	2.5	4.7	Р
HT40		565.3	-60.5	-11.3	-49.2	-72.2	4.5	2.5	4.7	Р
CH 54		694.8	-60.98	-11.78	-49.2	-72.68	4.5	2.5	4.7	Р
5270MHz		909	-60.48	-11.28	-49.2	-72.18	4.5	2.5	4.7	Р
		10540	-65.06	-43.86	-21.2	-72.06	4.5	2.5	0	Р
		15810	-56.86	-35.66	-21.2	-63.86	4.5	2.5	0	Р
		96.15	-60.64	-8.94	-51.7	-72.34	4.5	2.5	4.7	Р
		186.06	-60.24	-8.54	-51.7	-71.94	4.5	2.5	4.7	Р
802.11n		268.14	-60.46	-11.26	-49.2	-72.16	4.5	2.5	4.7	Р
HT40		471.5	-59.96	-10.76	-49.2	-71.66	4.5	2.5	4.7	Р
CH 62		638.8	-60.61	-11.41	-49.2	-72.31	4.5	2.5	4.7	Р
5310MHz		919.5	-60.01	-10.81	-49.2	-71.71	4.5	2.5	4.7	Р
		10620	-65	-43.8	-21.2	-72	4.5	2.5	0	Р
		15930	-54.53	-33.33	-21.2	-61.53	4.5	2.5	0	Р

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WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		54.84	-61.34	-6.14	-55.2	-73.04	4.5	2.5	4.7	Р
		142.05	-60.87	-9.17	-51.7	-72.57	4.5	2.5	4.7	Р
000 44 -		233.04	-60.95	-11.75	-49.2	-72.65	4.5	2.5	4.7	Р
802.11a CH 100		480.6	-60	-10.8	-49.2	-71.7	4.5	2.5	4.7	Р
5500MHz		623.4	-60.87	-11.67	-49.2	-72.57	4.5	2.5	4.7	Р
0000111112		900.6	-60.3	-11.1	-49.2	-72	4.5	2.5	4.7	Р
		11000	-64.8	-43.6	-21.2	-71.8	4.5	2.5	0	Р
		16500	-55.05	-33.85	-21.2	-62.05	4.5	2.5	0	Р
		62.67	-61.26	-6.06	-55.2	-72.96	4.5	2.5	4.7	Р
		156.9	-61.13	-9.43	-51.7	-72.83	4.5	2.5	4.7	Р
		216.3	-59.94	-10.74	-49.2	-71.64	4.5	2.5	4.7	Р
802.11a		524.7	-60.43	-11.23	-49.2	-72.13	4.5	2.5	4.7	Р
CH 116 5580MHz		671	-60.19	-10.99	-49.2	-71.89	4.5	2.5	4.7	Р
3300WII 12		808.9	-60.39	-11.19	-49.2	-72.09	4.5	2.5	4.7	Р
		11160	-66.01	-44.81	-21.2	-73.01	4.5	2.5	0	Р
		16740	-55.37	-34.17	-21.2	-62.37	4.5	2.5	0	Р
		85.62	-61	-5.8	-55.2	-72.7	4.5	2.5	4.7	Р
		147.99	-61.25	-9.55	-51.7	-72.95	4.5	2.5	4.7	Р
		226.02	-60.91	-11.71	-49.2	-72.61	4.5	2.5	4.7	Р
802.11a		450.5	-60.28	-11.08	-49.2	-71.98	4.5	2.5	4.7	Р
CH 140 5700MHz		630.4	-59.86	-10.66	-49.2	-71.56	4.5	2.5	4.7	Р
37 OUIVITIZ		844.6	-59.46	-10.26	-49.2	-71.16	4.5	2.5	4.7	Р
		11400	-64.5	-43.3	-21.2	-71.5	4.5	2.5	0	Р
		17100	-54.62	-33.42	-21.2	-61.62	4.5	2.5	0	Р

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WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		51.6	-60.2	-5	-55.2	-71.9	4.5	2.5	4.7	Р
		71.85	-61.06	-5.86	-55.2	-72.76	4.5	2.5	4.7	Р
000 44 5		82.38	-61.23	-6.03	-55.2	-72.93	4.5	2.5	4.7	Р
802.11a CH 100		437.2	-60.38	-11.18	-49.2	-72.08	4.5	2.5	4.7	Р
5500MHz		533.1	-61.14	-11.94	-49.2	-72.84	4.5	2.5	4.7	Р
000011112		700.4	-60.76	-11.56	-49.2	-72.46	4.5	2.5	4.7	Р
		11000	-65.62	-44.42	-21.2	-72.62	4.5	2.5	0	Р
		16500	-54.13	-32.93	-21.2	-61.13	4.5	2.5	0	Р
		152.85	-60.33	-8.63	-51.7	-72.03	4.5	2.5	4.7	Р
		214.68	-60.44	-8.74	-51.7	-72.14	4.5	2.5	4.7	Р
		247.35	-59.34	-10.14	-49.2	-71.04	4.5	2.5	4.7	Р
802.11a CH 116		491.1	-60.33	-11.13	-49.2	-72.03	4.5	2.5	4.7	Р
5580MHz		654.9	-60.36	-11.16	-49.2	-72.06	4.5	2.5	4.7	Р
3300WII 12		869.8	-61.29	-12.09	-49.2	-72.99	4.5	2.5	4.7	Р
		11160	-61.39	-40.19	-21.2	-68.39	4.5	2.5	0	Р
		16740	-54.9	-33.7	-21.2	-61.9	4.5	2.5	0	Р
		226.56	-61.46	-12.26	-49.2	-73.16	4.5	2.5	4.7	Р
		256.53	-60.67	-11.47	-49.2	-72.37	4.5	2.5	4.7	Р
		296.22	-60.83	-11.63	-49.2	-72.53	4.5	2.5	4.7	Р
802.11a		351.1	-62.93	-13.73	-49.2	-74.63	4.5	2.5	4.7	Р
CH 140 5700MHz		569.5	-61.39	-12.19	-49.2	-73.09	4.5	2.5	4.7	Р
37 OUIVITIZ		988.1	-59.9	-18.7	-41.2	-71.6	4.5	2.5	4.7	Р
		11400	-66.67	-45.47	-21.2	-73.67	4.5	2.5	0	Р
		17100	-54.68	-33.48	-21.2	-61.68	4.5	2.5	0	Р

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WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		169.59	-61.03	-9.33	-51.7	-72.73	4.5	2.5	4.7	Р
		226.29	-61.37	-12.17	-49.2	-73.07	4.5	2.5	4.7	Р
802.11n		276.24	-60.58	-11.38	-49.2	-72.28	4.5	2.5	4.7	Р
HT20		437.9	-60.84	-11.64	-49.2	-72.54	4.5	2.5	4.7	Р
CH 100		713	-61.01	-11.81	-49.2	-72.71	4.5	2.5	4.7	Р
5500MHz		902.7	-61.27	-12.07	-49.2	-72.97	4.5	2.5	4.7	Р
		11000	-63.12	-41.92	-21.2	-70.12	4.5	2.5	0	Р
		16500	-54.17	-32.97	-21.2	-61.17	4.5	2.5	0	Р
		67.53	-58.85	-3.65	-55.2	-70.55	4.5	2.5	4.7	Р
		150.15	-58.94	-7.24	-51.7	-70.64	4.5	2.5	4.7	Р
802.11n		228.99	-60.49	-11.29	-49.2	-72.19	4.5	2.5	4.7	Р
HT20		440.7	-60.26	-11.06	-49.2	-71.96	4.5	2.5	4.7	Р
CH 116		787.9	-60.5	-11.3	-49.2	-72.2	4.5	2.5	4.7	Р
5580MHz		948.2	-59.62	-10.42	-49.2	-71.32	4.5	2.5	4.7	Р
		11160	-62.65	-41.45	-21.2	-69.65	4.5	2.5	0	Р
		16740	-56.53	-35.33	-21.2	-63.53	4.5	2.5	0	Р
		146.64	-61.43	-9.73	-51.7	-73.13	4.5	2.5	4.7	Р
		193.35	-60.69	-8.99	-51.7	-72.39	4.5	2.5	4.7	Р
802.11n		251.4	-61.43	-12.23	-49.2	-73.13	4.5	2.5	4.7	Р
HT20		470.8	-60.57	-11.37	-49.2	-72.27	4.5	2.5	4.7	Р
CH 140		660.5	-60.17	-10.97	-49.2	-71.87	4.5	2.5	4.7	Р
5700MHz		871.9	-61.04	-11.84	-49.2	-72.74	4.5	2.5	4.7	Р
		11400	-64.93	-43.73	-21.2	-71.93	4.5	2.5	0	Р
		17100	-55.18	-33.98	-21.2	-62.18	4.5	2.5	0	Р

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WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		62.67	-61.43	-6.23	-55.2	-73.13	4.5	2.5	4.7	Р
		128.28	-61.36	-9.66	-51.7	-73.06	4.5	2.5	4.7	Р
802.11n		209.01	-61.48	-9.78	-51.7	-73.18	4.5	2.5	4.7	Р
HT20		494.6	-61.11	-11.91	-49.2	-72.81	4.5	2.5	4.7	Р
CH 100		607.3	-61.19	-11.99	-49.2	-72.89	4.5	2.5	4.7	Р
5500MHz		759.9	-61.11	-11.91	-49.2	-72.81	4.5	2.5	4.7	Р
		11000	-62.63	-41.43	-21.2	-69.63	4.5	2.5	0	Р
		16500	-54.22	-33.02	-21.2	-61.22	4.5	2.5	0	Р
		150.42	-60.39	-8.69	-51.7	-72.09	4.5	2.5	4.7	Р
		171.21	-60.91	-9.21	-51.7	-72.61	4.5	2.5	4.7	Р
802.11n		261.12	-59.91	-10.71	-49.2	-71.61	4.5	2.5	4.7	Р
HT20		559.7	-60.73	-11.53	-49.2	-72.43	4.5	2.5	4.7	Р
CH 116		792.1	-60.82	-11.62	-49.2	-72.52	4.5	2.5	4.7	Р
5580MHz		888	-61.32	-12.12	-49.2	-73.02	4.5	2.5	4.7	Р
		11160	-67.21	-46.01	-21.2	-74.21	4.5	2.5	0	Р
		16740	-54.8	-33.6	-21.2	-61.8	4.5	2.5	0	Р
		40.8	-61.46	-6.26	-55.2	-73.16	4.5	2.5	4.7	Р
		56.46	-61.54	-6.34	-55.2	-73.24	4.5	2.5	4.7	Р
802.11n		97.77	-61.14	-9.44	-51.7	-72.84	4.5	2.5	4.7	Р
HT20		392.4	-60.51	-11.31	-49.2	-72.21	4.5	2.5	4.7	Р
CH 140		617.1	-60.36	-11.16	-49.2	-72.06	4.5	2.5	4.7	Р
5700MHz		981.1	-61.18	-19.98	-41.2	-72.88	4.5	2.5	4.7	Р
		11400	-62.43	-41.23	-21.2	-69.43	4.5	2.5	0	Р
		17100	-53.64	-32.44	-21.2	-60.64	4.5	2.5	0	Р

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WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		60.24	-59.91	-4.71	-55.2	-71.61	4.5	2.5	4.7	Р
		165.54	-59.97	-8.27	-51.7	-71.67	4.5	2.5	4.7	Р
802.11n		237.09	-61.26	-12.06	-49.2	-72.96	4.5	2.5	4.7	Р
HT40		410.6	-60.13	-10.93	-49.2	-71.83	4.5	2.5	4.7	Р
CH 102		551.3	-61.16	-11.96	-49.2	-72.86	4.5	2.5	4.7	Р
5510MHz		825.7	-60.88	-11.68	-49.2	-72.58	4.5	2.5	4.7	Р
		11020	-63.95	-42.75	-21.2	-70.95	4.5	2.5	0	Р
		16530	-54	-32.8	-21.2	-61	4.5	2.5	0	Р
		110.46	-59.87	-8.17	-51.7	-71.57	4.5	2.5	4.7	Р
		217.38	-60.58	-11.38	-49.2	-72.28	4.5	2.5	4.7	Р
802.11n		288.12	-60.46	-11.26	-49.2	-72.16	4.5	2.5	4.7	Р
HT40		384	-61.19	-11.99	-49.2	-72.89	4.5	2.5	4.7	Р
CH 110		510	-60.61	-11.41	-49.2	-72.31	4.5	2.5	4.7	Р
5550MHz		731.9	-61.04	-11.84	-49.2	-72.74	4.5	2.5	4.7	Р
		11100	-67.16	-45.96	-21.2	-74.16	4.5	2.5	0	Р
		16650	-54.6	-33.4	-21.2	-61.6	4.5	2.5	0	Р
		66.99	-60.24	-5.04	-55.2	-71.94	4.5	2.5	4.7	Р
		185.79	-60.31	-8.61	-51.7	-72.01	4.5	2.5	4.7	Р
802.11n		256.26	-61.1	-11.9	-49.2	-72.8	4.5	2.5	4.7	Р
HT40		390.3	-60.68	-11.48	-49.2	-72.38	4.5	2.5	4.7	Р
CH 134		744.5	-60.76	-11.56	-49.2	-72.46	4.5	2.5	4.7	Р
5670MHz		949.6	-59.96	-10.76	-49.2	-71.66	4.5	2.5	4.7	Р
		11340	-66.15	-44.95	-21.2	-73.15	4.5	2.5	0	Р
		17010	-53.74	-32.54	-21.2	-60.74	4.5	2.5	0	Р

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WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Avg
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dBi)	(dB)	(dB)	(P/A)
		105.33	-60.89	-9.19	-51.7	-72.59	4.5	2.5	4.7	Р
		145.83	-59.62	-7.92	-51.7	-71.32	4.5	2.5	4.7	Р
802.11n		233.85	-62.57	-13.37	-49.2	-74.27	4.5	2.5	4.7	Р
HT40		464.5	-61.01	-11.81	-49.2	-72.71	4.5	2.5	4.7	Р
CH 102		617.8	-60.76	-11.56	-49.2	-72.46	4.5	2.5	4.7	Р
5510MHz		701.1	-60.38	-11.18	-49.2	-72.08	4.5	2.5	4.7	Р
		11020	-66.88	-45.68	-21.2	-73.88	4.5	2.5	0	Р
		16530	-55.07	-33.87	-21.2	-62.07	4.5	2.5	0	Р
		69.96	-60.13	-4.93	-55.2	-71.83	4.5	2.5	4.7	Р
		179.58	-59.95	-8.25	-51.7	-71.65	4.5	2.5	4.7	Р
802.11n		253.56	-60.91	-11.71	-49.2	-72.61	4.5	2.5	4.7	Р
HT40		416.9	-60.61	-11.41	-49.2	-72.31	4.5	2.5	4.7	Р
CH 110		573.7	-60.21	-11.01	-49.2	-71.91	4.5	2.5	4.7	Р
5550MHz		764.1	-61.21	-12.01	-49.2	-72.91	4.5	2.5	4.7	Р
		11100	-65.52	-44.32	-21.2	-72.52	4.5	2.5	0	Р
		16650	-56.22	-35.02	-21.2	-63.22	4.5	2.5	0	Р
		79.14	-60.23	-5.03	-55.2	-71.93	4.5	2.5	4.7	Р
		149.61	-60.65	-8.95	-51.7	-72.35	4.5	2.5	4.7	Р
802.11n		229.53	-60.44	-11.24	-49.2	-72.14	4.5	2.5	4.7	Р
HT40		411.3	-60.62	-11.42	-49.2	-72.32	4.5	2.5	4.7	Р
CH 134		646.5	-61.09	-11.89	-49.2	-72.79	4.5	2.5	4.7	Р
5670MHz		883.1	-60.44	-11.24	-49.2	-72.14	4.5	2.5	4.7	Р
		11340	-63.38	-42.18	-21.2	-70.38	4.5	2.5	0	Р
		17010	-55.33	-34.13	-21.2	-62.33	4.5	2.5	0	Р

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3.4.8 Test Result of Cabinet Radiated Spurious at Band Edges

Please refer to Appendix B of this report.

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

Please refer to Appendix B of this report.

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3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

Fraguency of amission (MUz)	Conducted limit (dBμV)					
Frequency of emission (MHz)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56	46				
5-30	60	50				

^{*}Decreases with the logarithm of the frequency.

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

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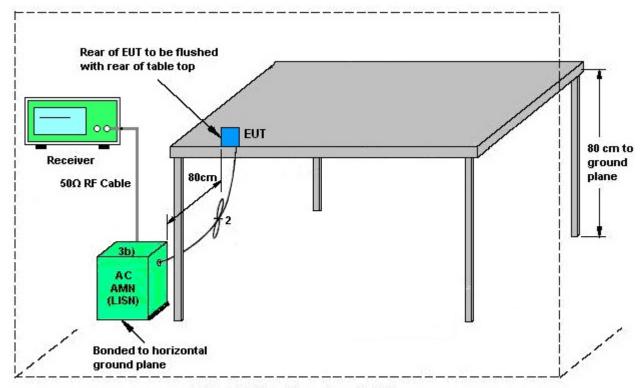
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3.5.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

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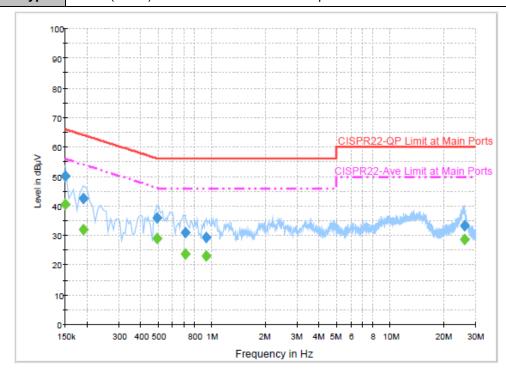
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3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	20~22 ℃
Test Engineer :	Kai-Chun CHu	Relative Humidity :	46~48%
Test Voltage :	120Vac / 60Hz	Phase :	Line

Function Type: WLAN (5GHz) Link + Bluetooth Link + Adapter



Final Result : QuasiPeak

Frequency	QuasiPeak	F:14	1 !	Corr.	Margin	Limit
(MHz)	(dBµV)	Filter	Line	(dB)	(dB)	(dBµV)
0.150000	50.3	Off	L1	19.5	15.7	66.0
0.190000	42.7	Off	L1	19.5	21.3	64.0
0.494000	36.0	Off	L1	19.4	20.1	56.1
0.710000	31.1	Off	L1	19.6	24.9	56.0
0.926000	29.5	Off	L1	19.5	26.5	56.0
26.030000	33.3	Off	L1	19.9	26.7	60.0

Final Result : Average

mai riocait						
Frequency	Average	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	1 iiiei	Lille	(dB)	(dB)	(dBµV)
0.150000	40.8	Off	L1	19.5	15.2	56.0
0.190000	31.9	Off	L1	19.5	22.1	54.0
0.494000	29.1	Off	L1	19.4	17.0	46.1
0.710000	23.6	Off	L1	19.6	22.4	46.0
0.926000	23.0	Off	L1	19.5	23.0	46.0
26.030000	28.8	Off	L1	19.9	21.2	50.0

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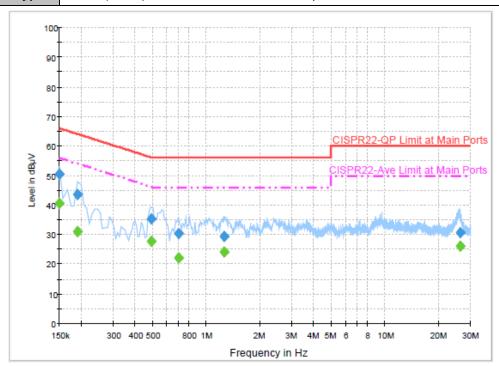
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Test Mode :	Mode 1	Temperature :	20~22℃
Test Engineer :	Kai-Chun CHu	Relative Humidity :	46~48%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral

Report No.: FR4O0971D

Function Type: WLAN (5GHz) Link + Bluetooth Link + Adapter



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	50.6	Off	N	19.5	15.4	66.0
0.190000	43.7	Off	N	19.5	20.3	64.0
0.494000	35.3	Off	N	19.4	20.8	56.1
0.702000	30.4	Off	N	19.6	25.6	56.0
1.254000	29.4	Off	N	19.6	26.6	56.0
26.366000	30.6	Off	N	20.1	29.4	60.0

Final Result : Average

Frequency	Average	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)			(dB)	(dB)	(dBµV)
0.150000	40.7	Off	N	19.5	15.3	56.0
0.190000	31.2	Off	N	19.5	22.8	54.0
0.494000	27.8	Off	N	19.4	18.3	46.1
0.702000	22.3	Off	N	19.6	23.7	46.0
1.254000	24.0	Off	N	19.6	22.0	46.0
26.366000	26.2	Off	N	20.1	23.8	50.0

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3.6 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

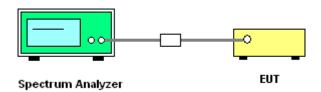
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

- To ensure emission at the band edge is maintained within the authorized band, those values shall
 be measured by radiation emissions at upper and lower frequency points, and finally
 compensated by frequency deviation as procedures below.
- 2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
- The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.

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3.7 Automatically Discontinue Transmission

Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.7.2 **Measuring Instruments**

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

3.7.3 **Test Result of Automatically Discontinue Transmission**

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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3.8 Antenna Requirements

3.8.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.8.2 Antenna Anti-Replacement Construction

Non-standard antenna connector is used.

3.8.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1) dB$.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \le 4$.

The EUT supports CDD mode.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	4.50	4.50	4.50	7.51	0.00	1.51
Band II	4.50	4.50	4.50	7.51	0.00	1.51
Band III	4.50	4.50	4.50	7.51	0.00	1.51

Power limit reduction = Composite gain - 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain - 6dBi, (min = 0)

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 09, 2014	Dec. 09, 2014 ~ Dec. 13, 2014	Jun. 08, 2015	Conducted (TH02-HY)
Power Meter	Anritsu	ML2495A	1036004	300MHz~40GHz	Aug. 09, 2014	Dec. 09, 2014 ~ Dec. 13, 2014	Aug. 08, 2015	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Aug. 09, 2014	Dec. 09, 2014 ~ Dec. 13, 2014	Aug. 08, 2015	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV30	101749	10Hz ~ 30GHz	Feb. 10, 2014	Dec. 15, 2014 ~ Dec. 16, 2014	Feb. 09, 2015	Radiation (03CH07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9 kHz~7 GHz	Aug. 30, 2014	Dec. 15, 2014 ~ Dec. 16, 2014	Aug. 29, 2015	Radiation (03CH07-HY)
Loop Antenna	R&S	HFH2-Z2	100315	9 kHz~30 MHz	Jul. 28, 2014	Dec. 15, 2014 ~ Dec. 16, 2014	Jul. 27, 2015	Radiation (03CH07-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Sep. 27, 2014	Dec. 15, 2014 ~ Dec. 16, 2014	Sep. 26, 2015	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	75962	1GHz~18GHz	Aug. 19, 2014	Dec. 15, 2014 ~ Dec. 16, 2014	Aug. 18, 2015	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170251	18GHz~40GHz	Oct. 02, 2014	Dec. 15, 2014 ~ Dec. 16, 2014	Oct. 01, 2015	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10 MHz ~ 1000MHz	Mar. 17, 2014	Dec. 15, 2014 ~ Dec. 16, 2014	Mar. 16, 2015	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1 GHz~26.5 GHz	Oct. 21, 2014	Dec. 15, 2014 ~ Dec. 16, 2014	Oct. 20, 2015	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	DC~18 GHz	Jul. 07, 2014	Dec. 15, 2014 ~ Dec. 16, 2014	Jul. 06, 2015	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	DC~18 GHz	Apr. 21, 2014	Dec. 15, 2014 ~ Dec. 16, 2014	Apr. 20, 2015	Radiation (03CH07-HY)
Turn Table	ChainTek	ChainTek 3000	N/A	0 ~ 360 degree	N/A	Dec. 15, 2014 ~ Dec. 16, 2014	N/A	Radiation (03CH07-HY)
Antenna Mast	ChainTek	ChainTek 3000	N/A	N/A	N/A	Dec. 15, 2014 ~ Dec. 16, 2014	N/A	Radiation (03CH07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz ~ 2.75GHz	Nov. 12, 2014	Dec. 10, 2014	Nov. 11, 2015	Conduction (CO05-HY)
LISN (for auxiliary equipment)	Rohde & Schwarz	ENV216	100081	9kHz ~ 30MHz	Dec. 08, 2014	Dec. 10, 2014	Dec. 07, 2015	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz ~ 30MHz	Dec. 02, 2014	Dec. 10, 2014	Dec. 01, 2015	Conduction (CO05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 10, 2014	N/A	Conduction (CO05-HY)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.26
of 95% (U = 2Uc(y))	2.20

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

Measuring Uncertainty for a Level of Confidence	4.50
of 95% (U = 2Uc(y))	

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Appendix A. Test Result of conducted Test Results

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