



FCC TEST REPORT

FCC ID: 2AMTVRH-1001

On Behalf of

Hydration Labs, Inc.

TABLET PC

Model No.: RH-1001, RH-1002

Prepared for : Hydration Labs, Inc.
Address : 28 Damrell Street, Suite B-04, Boston, MA 02127 USA

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.
Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
Shenzhen, Guangdong, China

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TEST REPORT DECLARATION

Applicant : Hydration Labs, Inc.
Address : 28 Damrell Street, Suite B-04, Boston, MA 02127 USA
Manufacturer : XIAMEN INNOLABS TECHNOLOGY CO., LTD.
Address : Unit 509, No.8 Gaodian Road, Xiamen Area of China (Fujian) Pilot Free Trade Zone
EUT Description : TABLET PC
(A) Model No. : RH-1001, RH-1002
(B) Trademark : N/A

Measurement Standard Used:

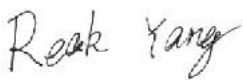
FCC Rules and Regulations Part 15 Subpart C Section 15.247: 2016,
ANSI C63.10-2013

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Reak Yang
Project Engineer


.....

Approved by (name + signature).....: Simple Guan
Project Manager


.....

Date of issue..... : July 06, 2018

Revision History

Revision	Issue Date	Revisions	Revised By
00	July 06, 2018	Initial released Issue	Simple Guan

1 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.10:2013.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	$\pm 4.34\text{dB}$	(1)
Radiated Emission	30MHz ~ 1000MHz	$\pm 4.24\text{dB}$	(1)
Radiated Emission	1GHz ~ 26.5GHz	$\pm 4.68\text{dB}$	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	$\pm 3.45\text{dB}$	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.			

2 General Information

2.1 General Description of EUT

Product Name:	TABLET PC
Model No.:	RH-1001, RH-1002
Test Model No:	RH-1001, RH-1002
<i>Remark:</i> 1. All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are appearance, model name, Antenna Type and 5G WIFI Antenna gain for commercial purpose. 2. The power tests of the two models is similar, so Conducted test only test RH-1001, the Radiated test RH-1001 and RH-1002.	
Sample(s) Status:	Engineer sample
Quantity of tested samples	1
Serial No.:	N/A
Tested Sample(s) ID:	N/A
Hardware Version:	X1562_MAIN_V1R3
Software Version:	Android 5.1.1, Kernel 3.10.0
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz (SISO)
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	RH-1001: External Antenna RH-1002: PIFA Antenna
Antenna gain:	RH-1001: 3dBi RH-1002: 3dBi
Power supply:	Input: DC 12V/2A

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)
	802.11b/802.11g/802.11n(HT20)
Lowest channel	2412MHz
Middle channel	2437MHz
Highest channel	2462MHz

Setting output power (Max)		
802.11b	802.11g	802.11n(HT20)
17dBm	20dBm	20dBm

2.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:			
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.			
Mode	802.11b	802.11g	802.11n(HT20)
Data rate	1Mbps	6Mbps	6.5Mbps

2.3 Description of Support Units

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
1	Adapter	--	--	--	--

2.4 Test Facility

Shenzhen Alpha Product Testing Co., Ltd

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission

Registration Number: 293961

July 25, 2017 Certificated by IC

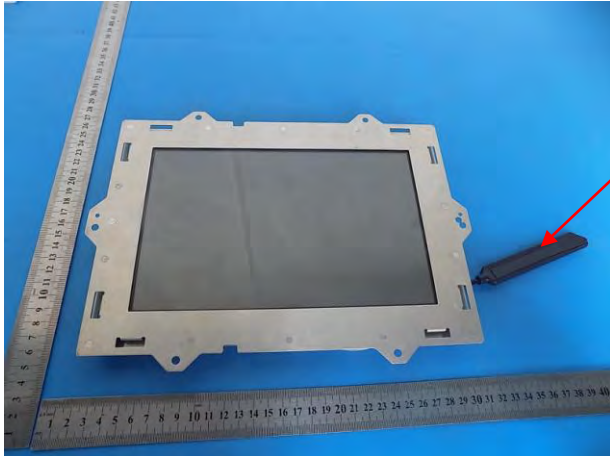
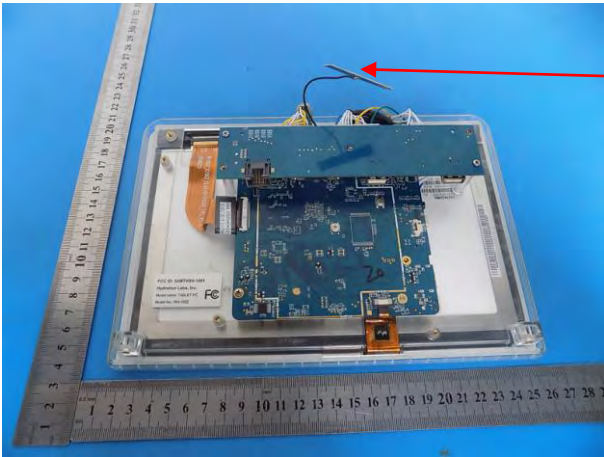
Registration Number: 12135A

3 Test Instruments list

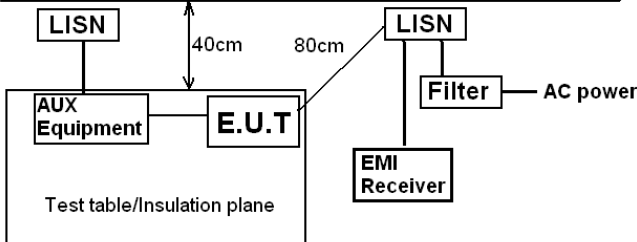
Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	2017.09.22	1Year
Spectrum analyzer	Agilent	E4407B	MY46185649	2017.09.22	1Year
Receiver	R&S	ESCI	1166.5950K03-1011	2017.09.22	1Year
Receiver	R&S	ESCI	101202	2017.09.22	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2016.09.30	2Year
Horn Antenna	EMCO	3115	640201028-06	2016.09.30	2Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2016.09.30	2Year
Cable	Resenberger	N/A	No.1	2017.09.22	1Year
Cable	SCHWARZBECK	N/A	No.2	2017.09.22	1Year
Cable	SCHWARZBECK	N/A	No.3	2017.09.22	1Year
Pre-amplifier	Schwarzbeck	BBV9743	9743-019	2017.09.22	1Year
Pre-amplifier	R&S	AFS33-18002650-30-8P-44	SEL0080	2017.09.22	1Year
Temperature controller	Terchy	MHQ	120	2017.09.22	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2017.09.22	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2017.09.22	1 Year
20db Attenuator	ICPROBING	IATS1	82347	2017.09.22	1 Year
18-40 Horn Antenna	18-40G antenna	Sas-574	571	2018-3-15	3 Year
Power Meter	Anritsu	ML2487A	6K00001491	2017.09.22	1 Year

4 Test results and Measurement Data

4.1 Antenna requirement

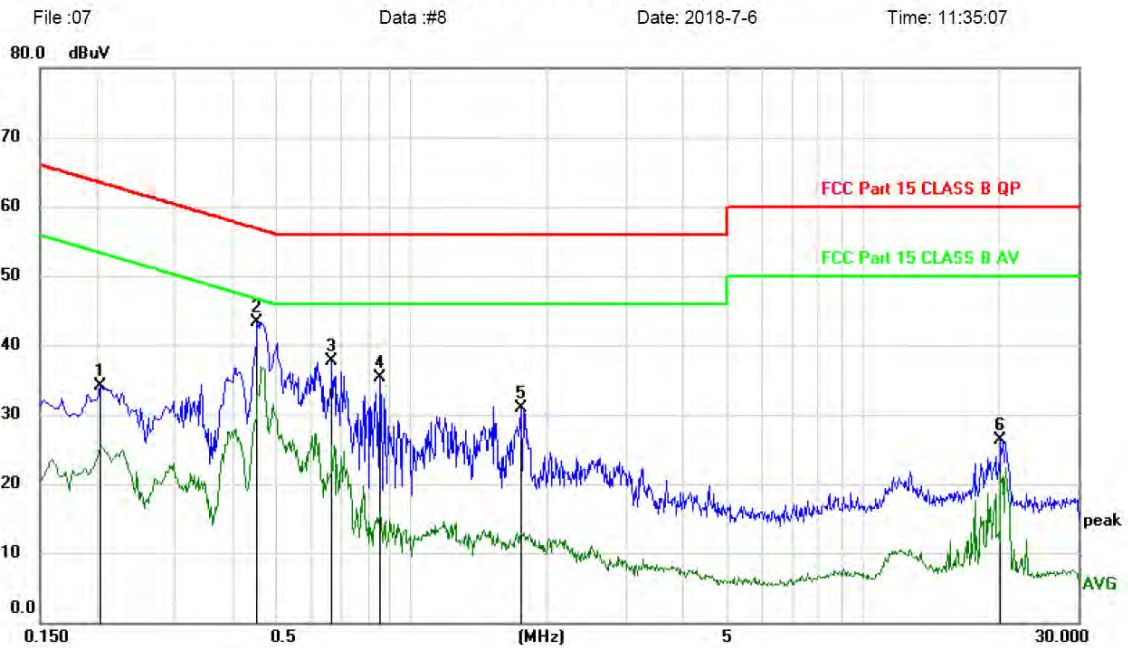
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
E.U.T Antenna:	
<i>RH-1001: The antenna is external antenna , the best case gain of the antenna is 3.0dBi</i> 	
<i>RH-1002: The antenna is PIFA antenna, the best case gain of the antenna is 3dBi</i> 	

4.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	ANSI C63.10:2013																
Test Frequency Range:	150KHz to 30MHz																
Class / Severity:	Class B																
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto																
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> * Decreases with the logarithm of the frequency.			Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
5-30	60	50															
Test setup:	Reference Plane  Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m																
Test procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.																
Test Instruments:	Refer to section 3.0 for details																
Test mode:	Refer to section 2.2 for details																
Test results:	Pass																

Measurement data**RH-1001:** Test result for 802.11g (Channel 2462MHz), AC 120V/ 60Hz

Line:

Conducted Emission Measurement

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2040	24.52	9.67	34.19	63.45	-29.26	peak	
2	*	0.4560	33.57	9.71	43.28	56.77	-13.49	peak	
3		0.6660	27.90	9.74	37.64	56.00	-18.36	peak	
4		0.8490	25.48	9.76	35.24	56.00	-20.76	peak	
5		1.7460	20.99	9.85	30.84	56.00	-25.16	peak	
6		20.2590	15.79	10.47	26.26	60.00	-33.74	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

RH-1001: Test result for 802.11g (Channel 2462MHz), AC 120V/ 60Hz

Neutral:

Conducted Emission Measurement

File :07

Data :#7

Date: 2018-7-6

Time: 11:32:56



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.3209	24.95	9.70	34.65	59.68	-25.03	peak	
2	*	0.4650	34.49	9.71	44.20	56.60	-12.40	peak	
3		0.7860	27.98	9.73	37.71	56.00	-18.29	peak	
4		1.2630	24.37	9.80	34.17	56.00	-21.83	peak	
5		1.7790	22.54	9.87	32.41	56.00	-23.59	peak	
6		20.3819	15.80	10.49	26.29	60.00	-33.71	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

RH-1002: Test result for 802.11g (Channel 2462MHz), AC 120V/ 60Hz

Line:

Conducted Emission Measurement

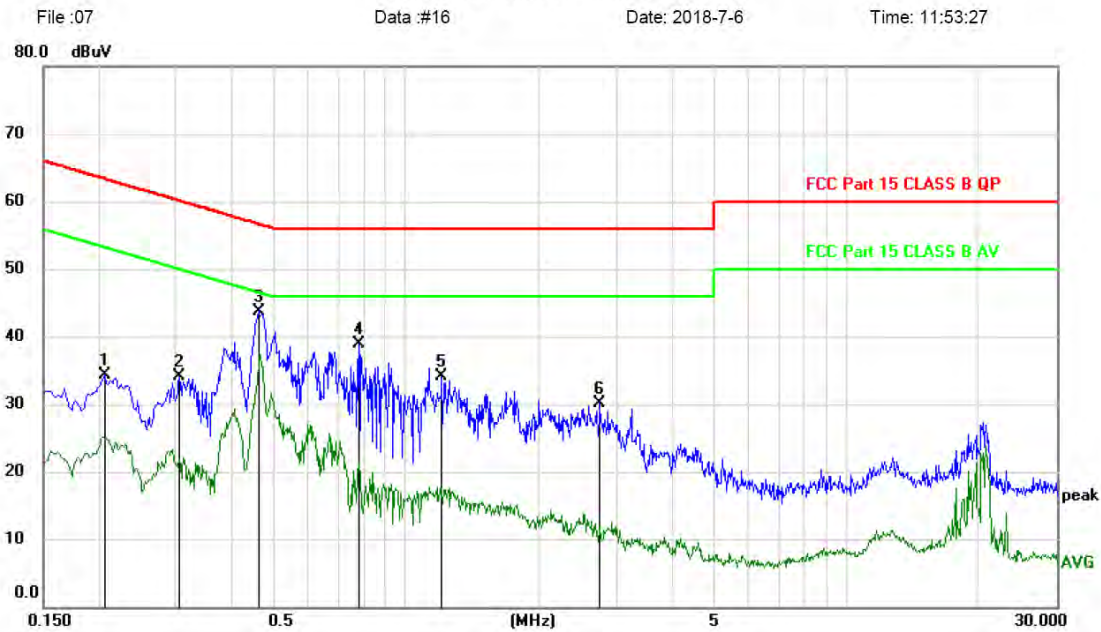
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2130	25.63	9.68	35.31	63.09	-27.78	peak	
2		0.3450	24.47	9.70	34.17	59.08	-24.91	peak	
3	*	0.4710	32.92	9.71	42.63	56.50	-13.87	peak	
4		0.8700	23.64	9.76	33.40	56.00	-22.60	peak	
5		1.5150	20.74	9.83	30.57	56.00	-25.43	peak	
6		20.8080	15.69	10.51	26.20	60.00	-33.80	peak	

*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

RH-1002: Test result for 802.11g (Channel 2462MHz), AC 120V/ 60Hz

Neutral:

Conducted Emission Measurement

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2070	24.63	9.67	34.30	63.32	-29.02	peak	
2		0.3060	24.46	9.69	34.15	60.08	-25.93	peak	
3	*	0.4620	34.09	9.71	43.80	56.66	-12.86	peak	
4		0.7830	29.27	9.73	39.00	56.00	-17.00	peak	
5		1.2090	24.40	9.79	34.19	56.00	-21.81	peak	
6		2.7600	20.06	9.97	30.03	56.00	-25.97	peak	

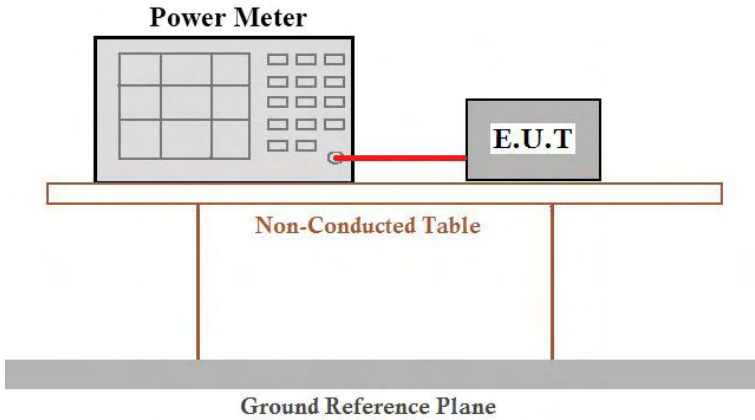
*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Notes:

- An initial pre-scan was performed on the line and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level =Receiver Read level + LISN Factor + Cable Loss
- If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

4.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V04
Limit:	30dBm
Test setup:	 The diagram illustrates the test setup. A Power Meter is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Power Meter and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Measurement Data

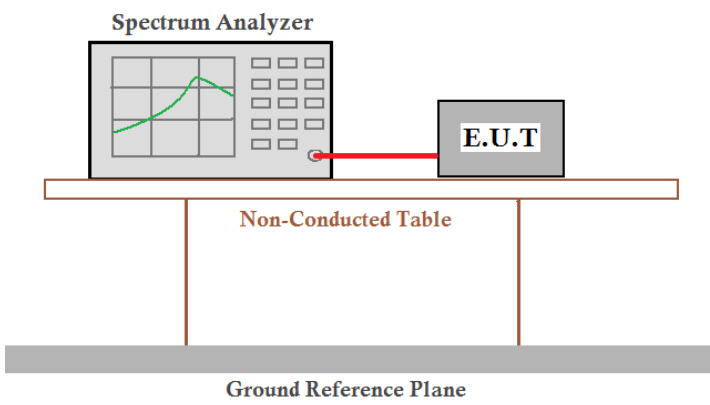
RH-1001:

Test CH	Peak Output Power (dBm)			Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)		
Lowest	15.12	19.60	19.43	30.00	Pass
Middle	15.17	19.69	19.32		
Highest	15.05	19.59	19.37		

RH-1002:

Test CH	Peak Output Power (dBm)			Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)		
Lowest	15.06	19.25	19.31	30.00	Pass
Middle	15.33	19.61	19.01		
Highest	15.10	19.35	19.25		

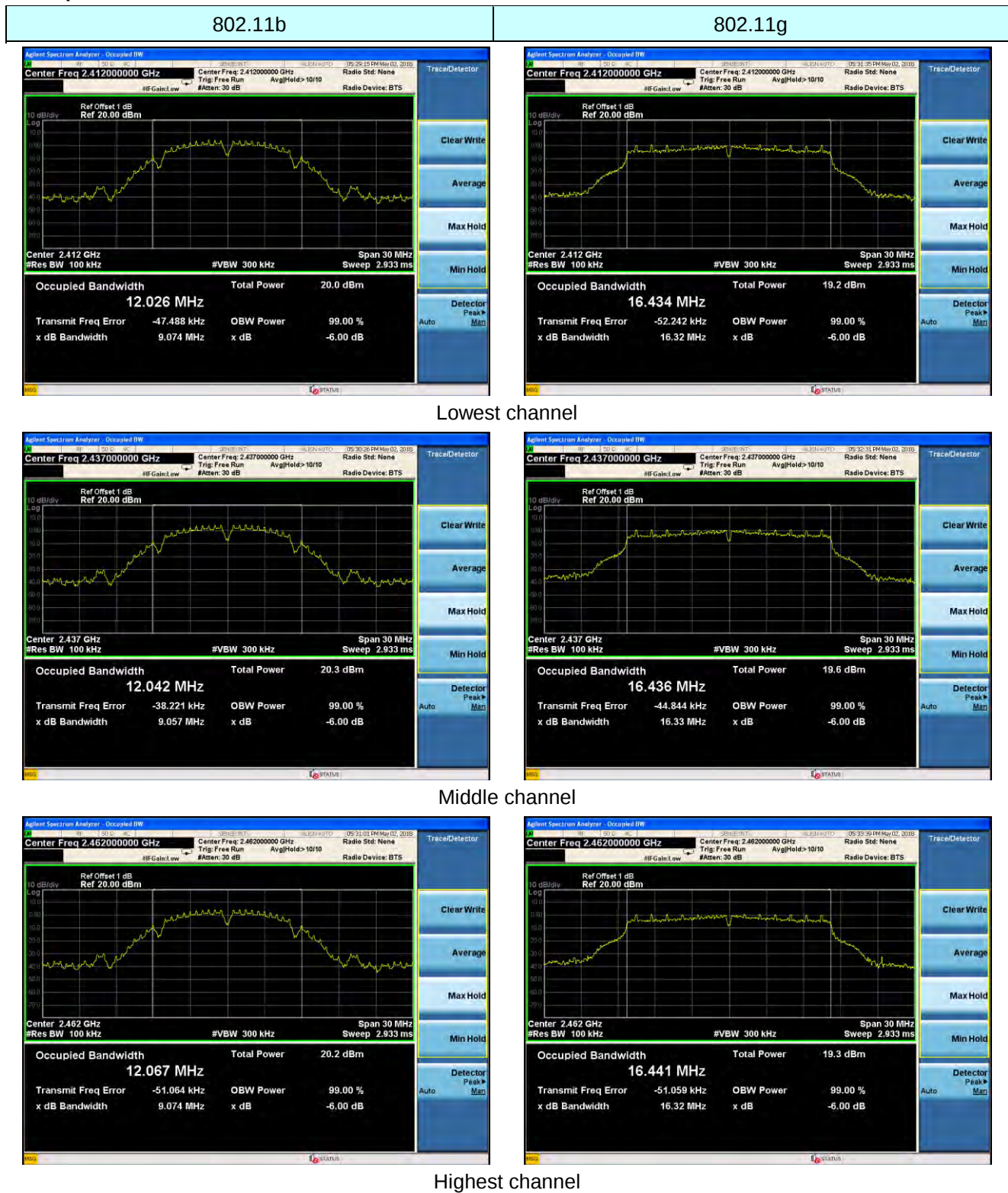
4.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V04
Limit:	>500KHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Measurement Data

Test CH	Channel Bandwidth (MHz)			Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)		
Lowest	9.074	16.32	17.10	>500	Pass
Middle	9.057	16.33	17.12		
Highest	9.074	16.32	17.31		

Test plot as follows:



802.11n(HT20)



Lowest channel

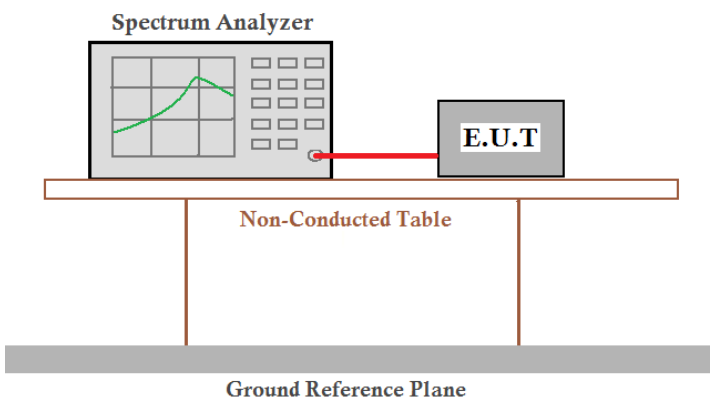


Middle channel



Highest channel

4.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V04
Limit:	8dBm/3KHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Measurement Data

Test CH	Power Spectral Density (dBm)			Limit(dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)		
Lowest	-8.311	-10.871	-10.888	8.00	Pass
Middle	-8.130	-10.616	-10.760		
Highest	-8.183	-10.990	-11.726		

Test plot as follows:

802.11b



802.11g



Lowest channel

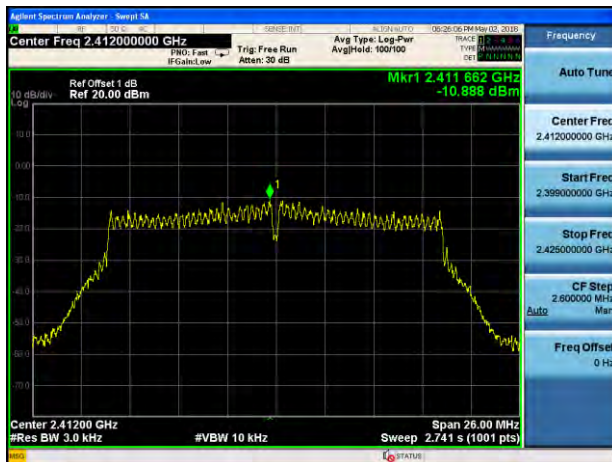


Middle channel



Highest channel

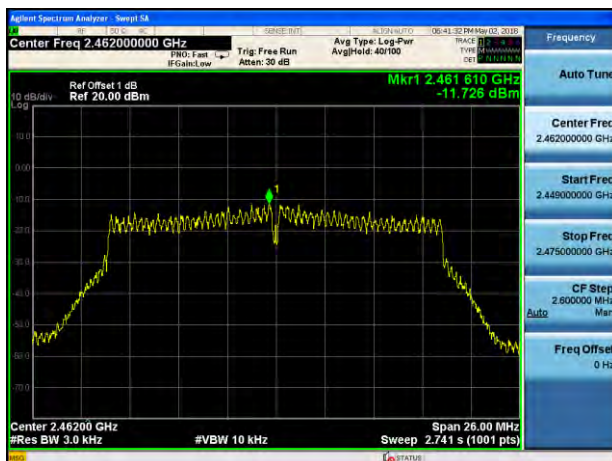
802.11n(HT20)



Lowest channel



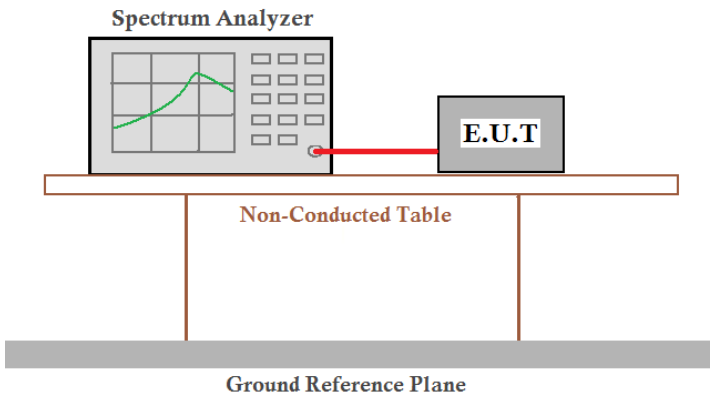
Middle channel



Highest channel

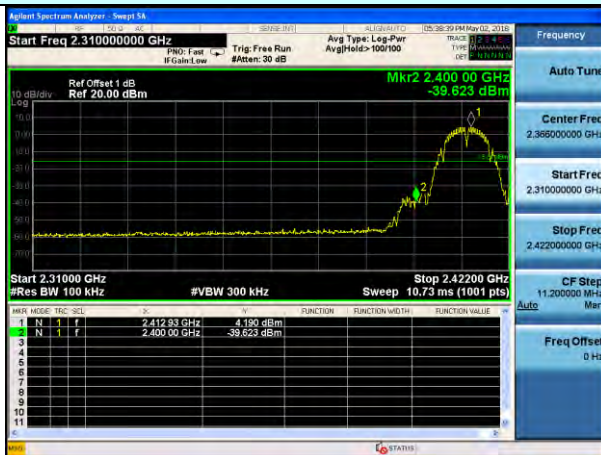
4.6 Band edges

4.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V04
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Test plot as follows:

Test mode: 802.11b



Lowest channel



Highest channel

Test mode: 802.11g

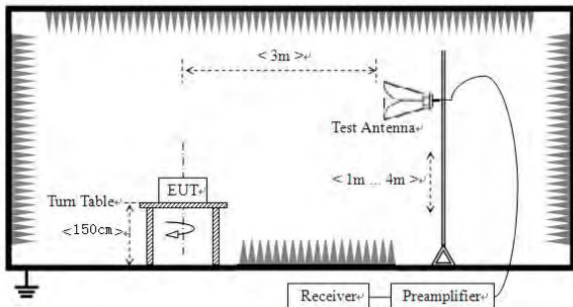


Lowest channel



Highest channel

4.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		RMS	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:					
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.				
Test Instruments:	Refer to section 3.0 for details				
Test mode:	Refer to section 2.2 for details				
Test results:	Pass				

Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

RH-1001:

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	47.51	27.59	5.38	34.01	46.47	74.00	-27.53	Horizontal
2400.00	52.48	27.58	5.39	34.01	51.44	74.00	-22.56	Horizontal
2390.00	47.74	27.59	5.38	34.01	46.70	74.00	-27.30	Vertical
2400.00	49.57	27.58	5.39	34.01	48.53	74.00	-25.47	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	39.62	27.59	5.38	34.01	38.58	54.00	-15.42	Horizontal
2400.00	34.10	27.58	5.39	34.01	33.06	54.00	-20.94	Horizontal
2390.00	39.47	27.59	5.38	34.01	38.43	54.00	-15.57	Vertical
2400.00	37.35	27.58	5.39	34.01	36.31	54.00	-17.69	Vertical

Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	47.32	27.53	5.47	33.92	46.40	74.00	-27.60	Horizontal
2500.00	50.78	27.55	5.49	29.93	53.89	74.00	-20.11	Horizontal
2483.50	47.33	27.53	5.47	33.92	46.41	74.00	-27.59	Vertical
2500.00	49.70	27.55	5.49	29.93	52.81	74.00	-21.19	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.58	27.53	5.47	33.92	35.66	54.00	-18.34	Horizontal
2500.00	36.11	27.55	5.49	29.93	39.22	54.00	-14.78	Horizontal
2483.50	41.87	27.53	5.47	33.92	40.95	54.00	-13.05	Vertical
2500.00	34.80	27.55	5.49	29.93	37.91	54.00	-16.09	Vertical

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	802.11g	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	45.98	27.59	5.38	34.01	44.94	74.00	-29.06	Horizontal
2400.00	50.21	27.58	5.39	34.01	49.17	74.00	-24.83	Horizontal
2390.00	47.96	27.59	5.38	34.01	46.92	74.00	-27.08	Vertical
2400.00	49.81	27.58	5.39	34.01	48.77	74.00	-25.23	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.36	27.59	5.38	34.01	35.32	54.00	-18.68	Horizontal
2400.00	37.14	27.58	5.39	34.01	36.10	54.00	-17.90	Horizontal
2390.00	37.71	27.59	5.38	34.01	36.67	54.00	-17.33	Vertical
2400.00	38.88	27.58	5.39	34.01	37.84	54.00	-16.16	Vertical

Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	45.77	27.53	5.47	33.92	44.85	74.00	-29.15	Horizontal
2500.00	50.49	27.55	5.49	29.93	53.60	74.00	-20.40	Horizontal
2483.50	45.79	27.53	5.47	33.92	44.87	74.00	-29.13	Vertical
2500.00	50.74	27.55	5.49	29.93	53.85	74.00	-20.15	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.52	27.53	5.47	33.92	35.60	54.00	-18.40	Horizontal
2500.00	36.67	27.55	5.49	29.93	39.78	54.00	-14.22	Horizontal
2483.50	35.01	27.53	5.47	33.92	34.09	54.00	-19.91	Vertical
2500.00	38.20	27.55	5.49	29.93	41.31	54.00	-12.69	Vertical

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	46.17	27.59	5.38	34.01	45.13	74.00	-28.87	Horizontal
2400.00	52.02	27.58	5.39	34.01	50.98	74.00	-23.02	Horizontal
2390.00	47.86	27.59	5.38	34.01	46.82	74.00	-27.18	Vertical
2400.00	51.65	27.58	5.39	34.01	50.61	74.00	-23.39	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	35.32	27.59	5.38	34.01	34.28	54.00	-19.72	Horizontal
2400.00	38.08	27.58	5.39	34.01	37.04	54.00	-16.96	Horizontal
2390.00	37.08	27.59	5.38	34.01	36.04	54.00	-17.96	Vertical
2400.00	40.26	27.58	5.39	34.01	39.22	54.00	-14.78	Vertical

Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	44.04	27.53	5.47	33.92	43.12	74.00	-30.88	Horizontal
2500.00	51.13	27.55	5.49	29.93	54.24	74.00	-19.76	Horizontal
2483.50	46.07	27.53	5.47	33.92	45.15	74.00	-28.85	Vertical
2500.00	51.86	27.55	5.49	29.93	54.97	74.00	-19.03	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	33.93	27.53	5.47	33.92	33.01	54.00	-20.99	Horizontal
2500.00	36.50	27.55	5.49	29.93	39.61	54.00	-14.39	Horizontal
2483.50	36.40	27.53	5.47	33.92	35.48	54.00	-18.52	Vertical
2500.00	37.06	27.55	5.49	29.93	40.17	54.00	-13.83	Vertical

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

RH-1002:

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	47.58	27.59	5.38	34.01	46.54	74.00	-27.46	Horizontal
2400.00	51.82	27.58	5.39	34.01	50.78	74.00	-23.22	Horizontal
2390.00	46.53	27.59	5.38	34.01	45.49	74.00	-28.51	Vertical
2400.00	50.99	27.58	5.39	34.01	49.95	74.00	-24.05	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	34.52	27.59	5.38	34.01	33.48	54.00	-20.52	Horizontal
2400.00	37.57	27.58	5.39	34.01	36.53	54.00	-17.47	Horizontal
2390.00	34.71	27.59	5.38	34.01	33.67	54.00	-20.33	Vertical
2400.00	39.77	27.58	5.39	34.01	38.73	54.00	-15.27	Vertical

Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	47.39	27.53	5.47	33.92	46.47	74.00	-27.53	Horizontal
2500.00	49.78	27.55	5.49	29.93	52.89	74.00	-21.11	Horizontal
2483.50	48.71	27.53	5.47	33.92	47.79	74.00	-26.21	Vertical
2500.00	51.37	27.55	5.49	29.93	54.48	74.00	-19.52	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	34.10	27.53	5.47	33.92	33.18	54.00	-20.82	Horizontal
2500.00	38.36	27.55	5.49	29.93	41.47	54.00	-12.53	Horizontal
2483.50	36.58	27.53	5.47	33.92	35.66	54.00	-18.34	Vertical
2500.00	37.74	27.55	5.49	29.93	40.85	54.00	-13.15	Vertical

Remark:

3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	802.11g	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	46.01	27.59	5.38	34.01	44.97	74.00	-29.03	Horizontal
2400.00	48.94	27.58	5.39	34.01	47.90	74.00	-26.10	Horizontal
2390.00	47.68	27.59	5.38	34.01	46.64	74.00	-27.36	Vertical
2400.00	51.41	27.58	5.39	34.01	50.37	74.00	-23.63	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	35.10	27.59	5.38	34.01	34.06	54.00	-19.94	Horizontal
2400.00	38.93	27.58	5.39	34.01	37.89	54.00	-16.11	Horizontal
2390.00	37.37	27.59	5.38	34.01	36.33	54.00	-17.67	Vertical
2400.00	37.55	27.58	5.39	34.01	36.51	54.00	-17.49	Vertical

Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	46.29	27.53	5.47	33.92	45.37	74.00	-28.63	Horizontal
2500.00	52.05	27.55	5.49	29.93	55.16	74.00	-18.84	Horizontal
2483.50	47.45	27.53	5.47	33.92	46.53	74.00	-27.47	Vertical
2500.00	51.63	27.55	5.49	29.93	54.74	74.00	-19.26	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.91	27.53	5.47	33.92	35.99	54.00	-18.01	Horizontal
2500.00	35.47	27.55	5.49	29.93	38.58	54.00	-15.42	Horizontal
2483.50	34.69	27.53	5.47	33.92	33.77	54.00	-20.23	Vertical
2500.00	37.84	27.55	5.49	29.93	40.95	54.00	-13.05	Vertical

Remark:

3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	46.37	27.59	5.38	34.01	45.33	74.00	-28.67	Horizontal
2400.00	51.99	27.58	5.39	34.01	50.95	74.00	-23.05	Horizontal
2390.00	48.24	27.59	5.38	34.01	47.20	74.00	-26.80	Vertical
2400.00	51.53	27.58	5.39	34.01	50.49	74.00	-23.51	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	33.66	27.59	5.38	34.01	32.62	54.00	-21.38	Horizontal
2400.00	38.84	27.58	5.39	34.01	37.80	54.00	-16.20	Horizontal
2390.00	36.95	27.59	5.38	34.01	35.91	54.00	-18.09	Vertical
2400.00	37.74	27.58	5.39	34.01	36.70	54.00	-17.30	Vertical

Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	44.97	27.53	5.47	33.92	44.05	74.00	-29.95	Horizontal
2500.00	51.55	27.55	5.49	29.93	54.66	74.00	-19.34	Horizontal
2483.50	47.02	27.53	5.47	33.92	46.10	74.00	-27.90	Vertical
2500.00	48.70	27.55	5.49	29.93	51.81	74.00	-22.19	Vertical

Average value:

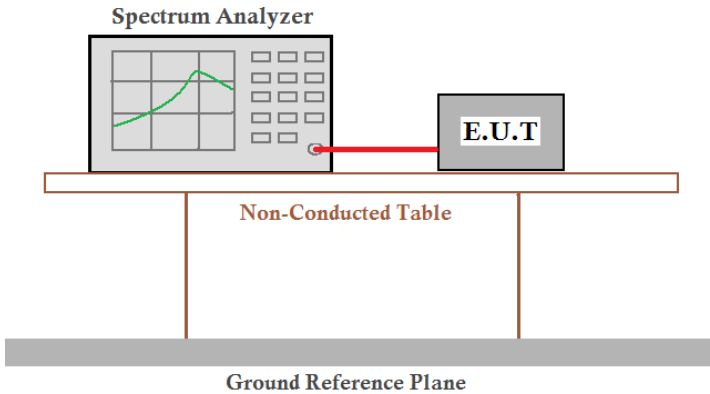
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	39.95	27.53	5.47	33.92	39.03	54.00	-14.97	Horizontal
2500.00	34.20	27.55	5.49	29.93	37.31	54.00	-16.69	Horizontal
2483.50	41.38	27.53	5.47	33.92	40.46	54.00	-13.54	Vertical
2500.00	37.43	27.55	5.49	29.93	40.54	54.00	-13.46	Vertical

Remark:

3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

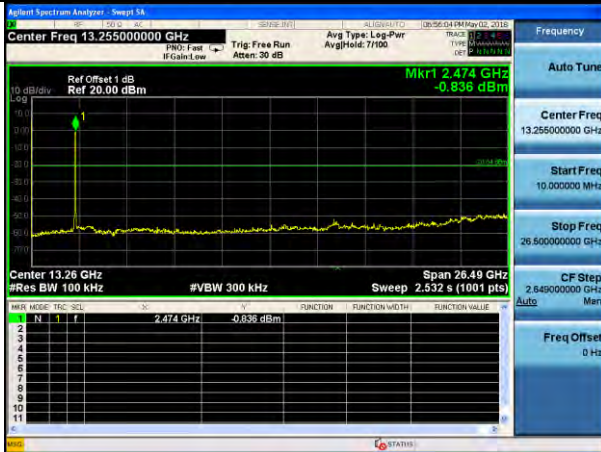
4.7 Spurious Emission

4.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V04
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

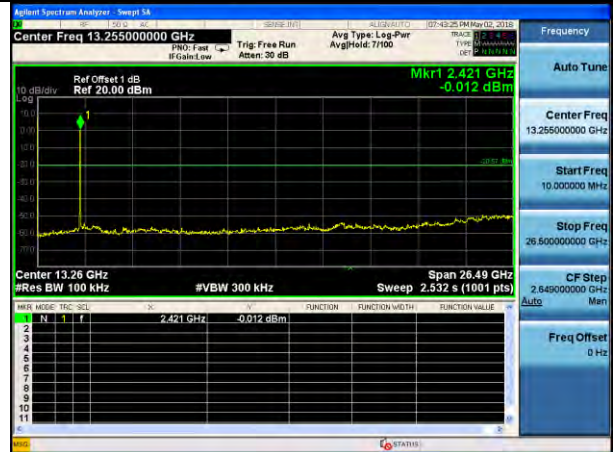
Test plot as follows:

802.11b

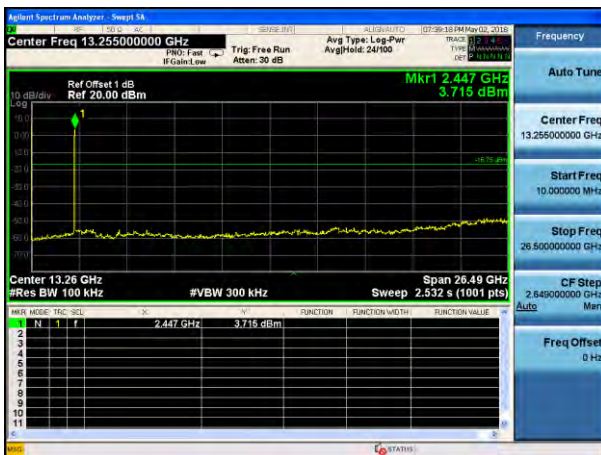


Lowest channel: 30MHz~25GHz

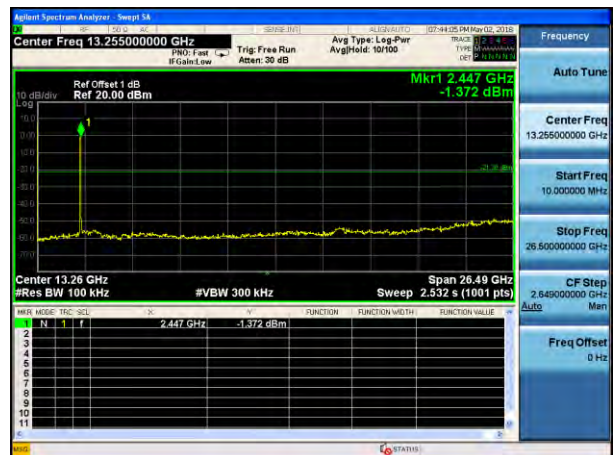
802.11g



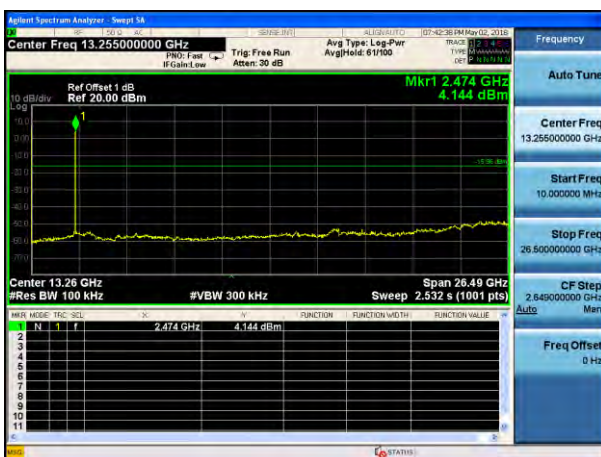
Lowest channel: 30MHz~25GHz



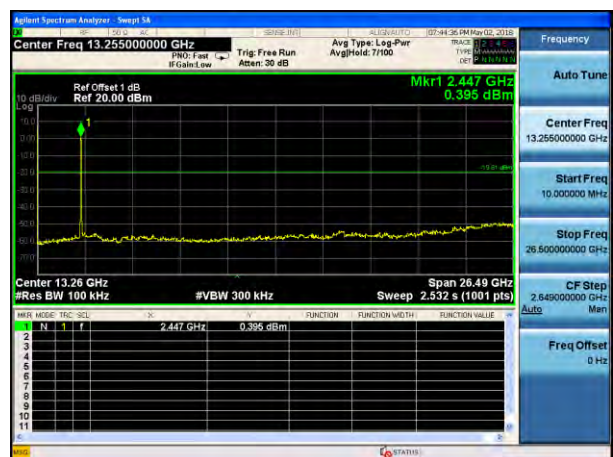
Middle channel: 30MHz~25GHz



Middle channel: 30MHz~25GHz

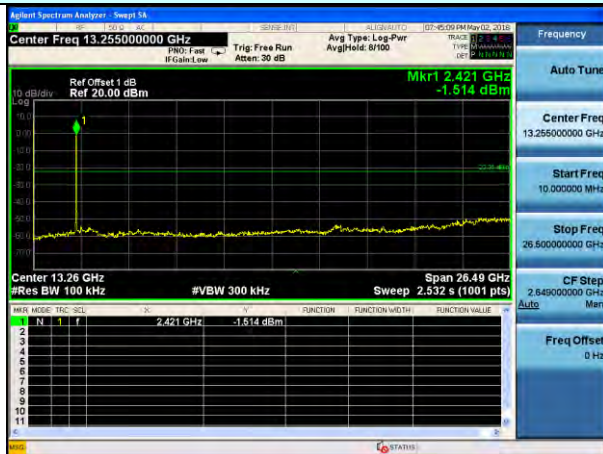


Highest channel: 30MHz~25GHz

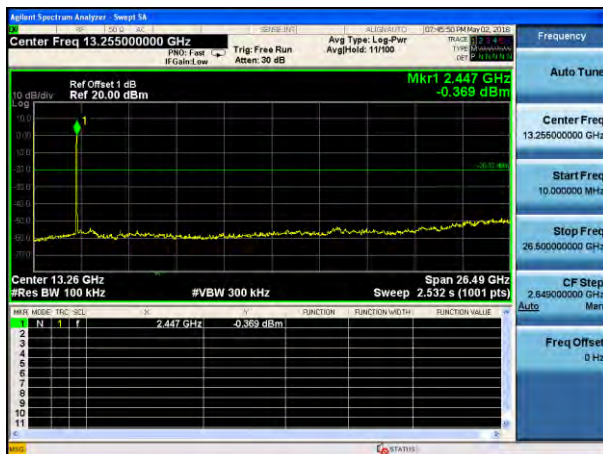


Highest channel: 30MHz~25GHz

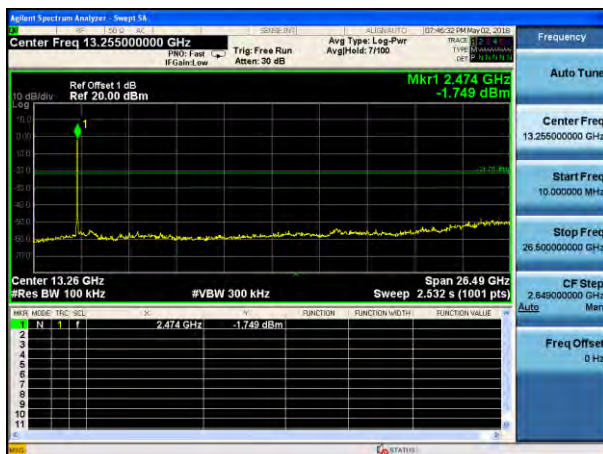
802.11n(HT20)



Lowest channel: 30MHz~25GHz

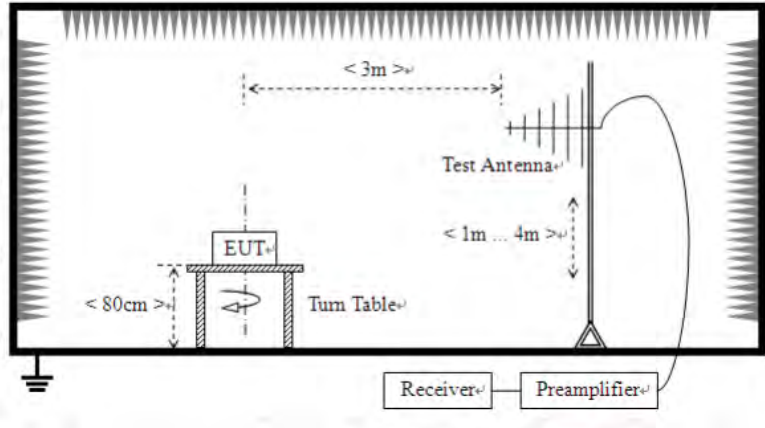


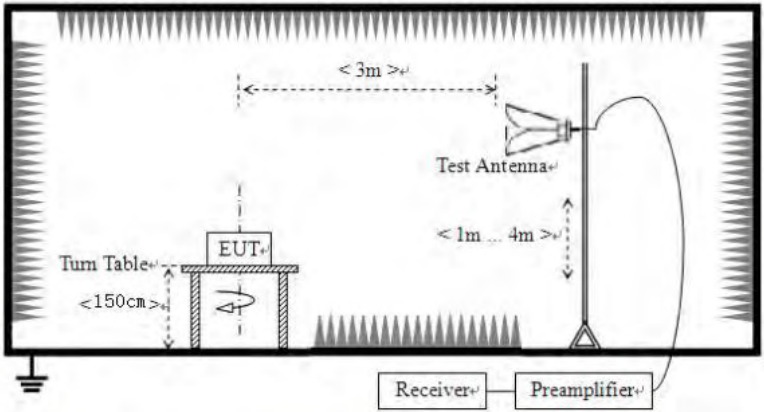
Middle channel: 30MHz~25GHz



Highest channel: 30MHz~25GHz

4.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		RMS	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	0.009-0.490MHz		2400/F(KHz)		300
	0.490-1.705MHz		24000/F(KHz)		30
	1.705-30MHz		30		30
	30MHz-88MHz		40.00		Quasi-peak
	88MHz-216MHz		43.50		Quasi-peak
	216MHz-960MHz		46.00		Quasi-peak
	960MHz-1GHz		54.00		Quasi-peak
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:	Below 1GHz				
					
	Above 1GHz				

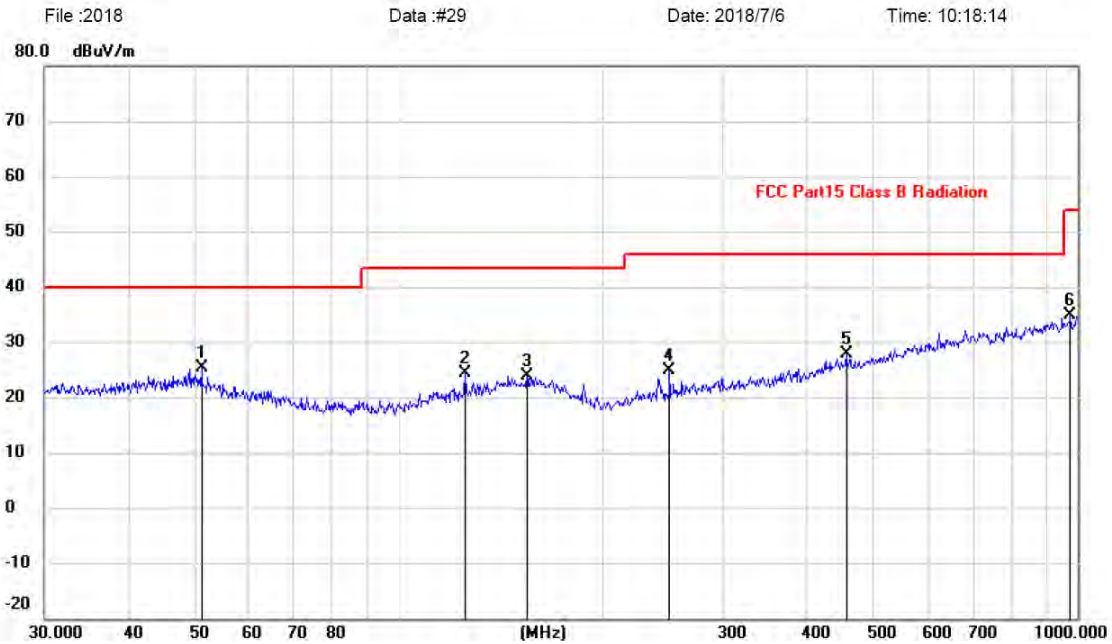
	
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8 meters below 1G and 1.5 meters above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Remark:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
2. The test data below 30MHz is too lower than the limit, so not show in this report.
3. This Report only show the test plots of the worst case.

Measurement Data**RH-1001:** Test result for 802.11g (Channel 2462MHz), AC 120V/ 60Hz

Vertical

Radiated Emission Measurement

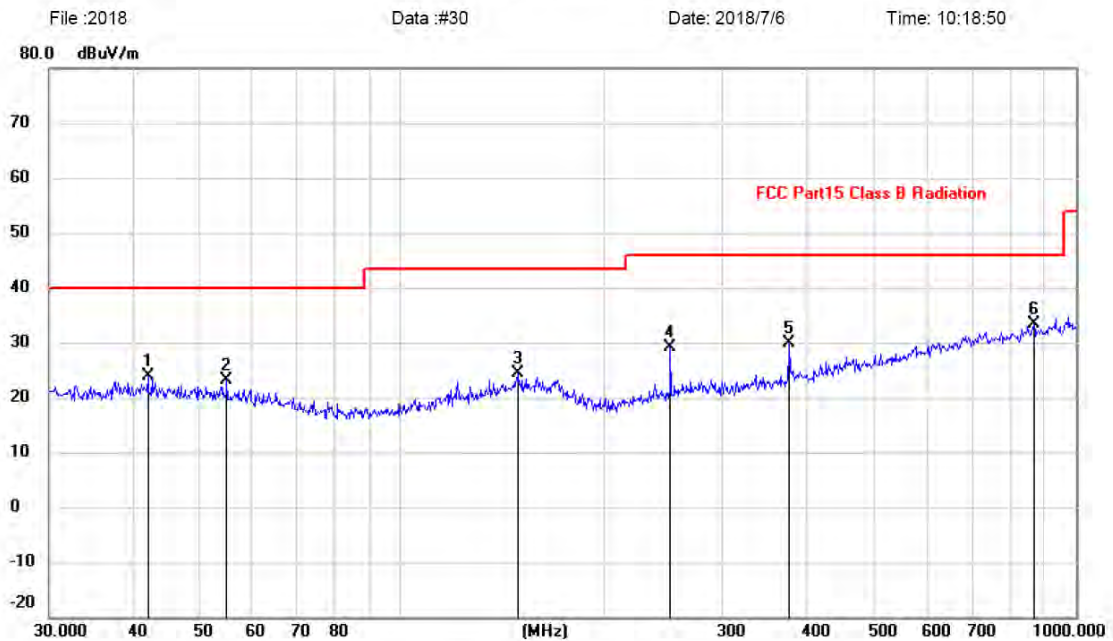
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	51.1209	11.63	13.63	25.26	40.00	-14.74	peak		
2		125.0066	11.50	12.92	24.42	43.50	-19.08	peak		
3		154.2786	9.29	14.56	23.85	43.50	-19.65	peak		
4		250.3012	12.92	12.06	24.98	46.00	-21.02	peak		
5		455.9058	10.85	17.07	27.92	46.00	-18.08	peak		
6		975.7529	11.25	23.65	34.90	54.00	-19.10	peak		

Note:1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

RH-1001: Test result for 802.11g (Channel 2462MHz), AC 120V/ 60Hz
Horizontal

Radiated Emission Measurement



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		42.0066	9.85	14.12	23.97	40.00	-16.03	peak		
2		55.0274	9.78	13.25	23.03	40.00	-16.97	peak		
3		148.9625	9.87	14.47	24.34	43.50	-19.16	peak		
4		250.3012	17.15	12.06	29.21	46.00	-16.79	peak		
5		375.9385	14.47	15.31	29.78	46.00	-16.22	peak		
6	*	866.0879	10.74	22.62	33.36	46.00	-12.64	peak		

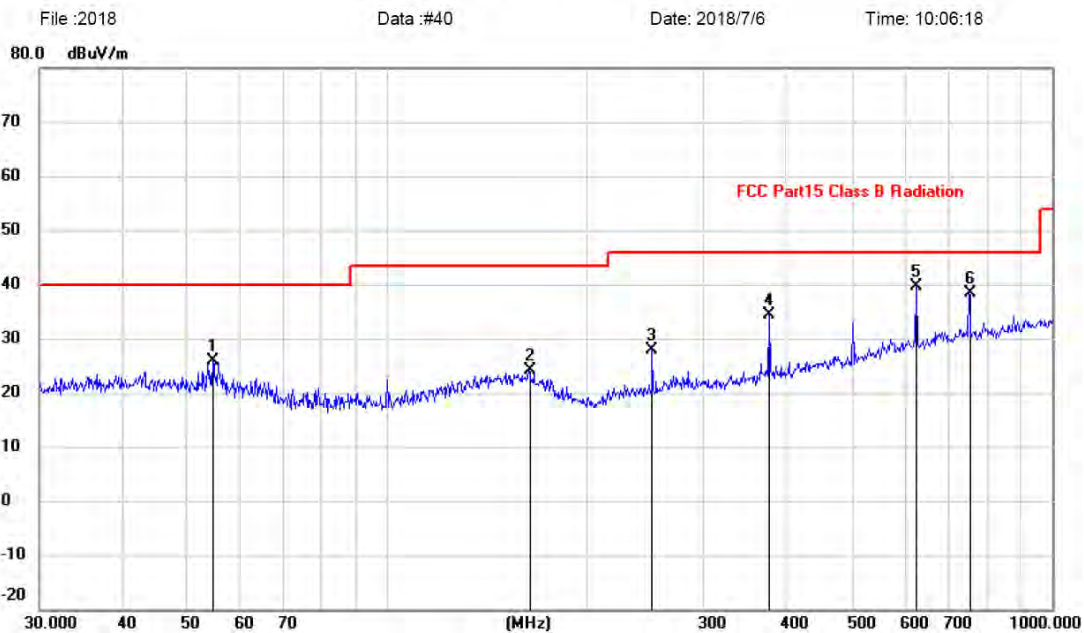
Note: 1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

RH-1002: Test result for 802.11g (Channel 2462MHz), AC 120V/ 60Hz

Vertical

Radiated Emission Measurement



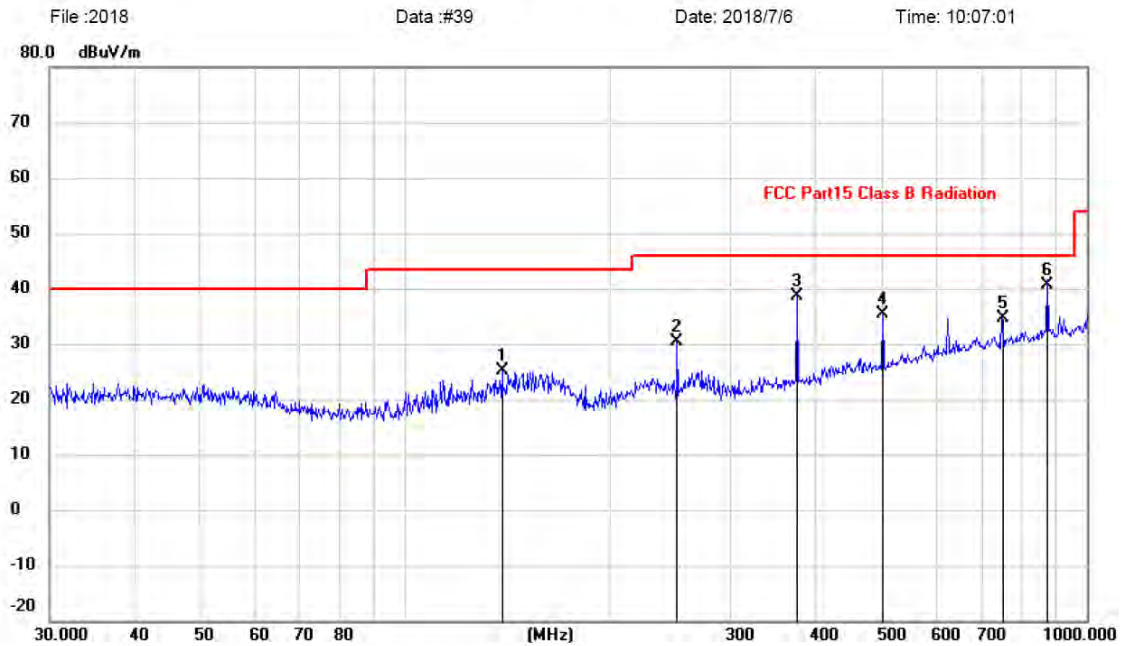
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		54.6429	12.60	13.31	25.91	40.00	-14.09	peak		
2		163.7550	9.88	14.28	24.16	43.50	-19.34	peak		
3		250.3012	15.92	12.06	27.98	46.00	-18.02	peak		
4		375.9385	19.11	15.31	34.42	46.00	-11.58	peak		
5	*	625.0780	19.80	19.74	39.54	46.00	-6.46	peak		
6		752.7432	16.96	21.45	38.41	46.00	-7.59	peak		

Note: 1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

RH-1002: Test result for 802.11g (Channel 2462MHz), AC 120V/ 60Hz
Horizontal

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		138.3873	11.44	13.73	25.17	43.50	-18.33	peak		
2		250.3012	18.32	12.06	30.38	46.00	-15.62	peak		
3		375.9385	23.34	15.31	38.65	46.00	-7.35	peak		
4		501.1790	18.14	17.22	35.36	46.00	-10.64	peak		
5		752.7432	13.28	21.45	34.73	46.00	-11.27	peak		
6	*	875.2470	17.87	22.83	40.70	46.00	-5.30	QP		

Note:1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

■ Above 1GHz

■ RH-1001:

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	38.91	31.79	8.62	32.1	47.22	74.00	-26.78	Vertical
7236.00	31.34	36.19	11.68	31.97	47.24	74.00	-26.76	Vertical
9648.00	31.02	38.07	14.16	31.56	51.69	74.00	-22.31	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	40.90	31.79	8.62	32.1	49.21	74.00	-24.79	Horizontal
7236.00	34.18	36.19	11.68	31.97	50.08	74.00	-23.92	Horizontal
9648.00	30.11	38.07	14.16	31.56	50.78	74.00	-23.22	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	25.84	31.79	8.62	32.1	34.15	54.00	-19.85	Vertical
7236.00	20.93	36.19	11.68	31.97	36.83	54.00	-17.17	Vertical
9648.00	19.00	38.07	14.16	31.56	39.67	54.00	-14.33	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	30.29	31.79	8.62	32.1	38.60	54.00	-15.40	Horizontal
7236.00	21.65	36.19	11.68	31.97	37.55	54.00	-16.45	Horizontal
9648.00	20.20	38.07	14.16	31.56	40.87	54.00	-13.13	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11b	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	37.59	31.85	8.66	32.12	45.98	74.00	-28.02	Vertical
7311.00	32.77	36.37	11.71	31.91	48.94	74.00	-25.06	Vertical
9748.00	32.25	38.27	14.25	31.56	53.21	74.00	-20.79	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	42.08	31.85	8.66	32.12	50.47	74.00	-23.53	Horizontal
7311.00	35.85	36.37	11.71	31.91	52.02	74.00	-21.98	Horizontal
9748.00	31.05	38.27	14.25	31.56	52.01	74.00	-21.99	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	27.60	31.85	8.66	32.12	35.99	54.00	-18.01	Vertical
7311.00	21.69	36.37	11.71	31.91	37.86	54.00	-16.14	Vertical
9748.00	21.07	38.27	14.25	31.56	42.03	54.00	-11.97	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.09	31.85	8.66	32.12	37.48	54.00	-16.52	Horizontal
7311.00	20.89	36.37	11.71	31.91	37.06	54.00	-16.94	Horizontal
9748.00	19.33	38.27	14.25	31.56	40.29	54.00	-13.71	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	43.72	31.9	8.7	32.15	52.17	74.00	-21.83	Vertical
7386.00	32.36	36.49	11.76	31.83	48.78	74.00	-25.22	Vertical
9848.00	34.37	38.62	14.31	31.77	55.53	74.00	-18.47	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.69	31.9	8.7	32.15	52.14	74.00	-21.86	Horizontal
7386.00	34.61	36.49	11.76	31.83	51.03	74.00	-22.97	Horizontal
9848.00	32.89	38.62	14.31	31.77	54.05	74.00	-19.95	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	32.18	31.9	8.7	32.15	40.63	54.00	-13.37	Vertical
7386.00	24.86	36.49	11.76	31.83	41.28	54.00	-12.72	Vertical
9848.00	24.52	38.62	14.31	31.77	45.68	54.00	-8.32	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.31	31.9	8.7	32.15	42.76	54.00	-11.24	Horizontal
7386.00	22.88	36.49	11.76	31.83	39.30	54.00	-14.70	Horizontal
9848.00	20.15	38.62	14.31	31.77	41.31	54.00	-12.69	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*”, means this data is the too weak instrument of signal is unable to test.*

Test mode:	802.11g	Test channel:	lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.84	31.79	8.62	32.1	48.15	74.00	-25.85	Vertical
7236.00	31.25	36.19	11.68	31.97	47.15	74.00	-26.85	Vertical
9648.00	32.87	38.07	14.16	31.56	53.54	74.00	-20.46	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	36.90	31.79	8.62	32.1	45.21	74.00	-28.79	Horizontal
7236.00	34.77	36.19	11.68	31.97	50.67	74.00	-23.33	Horizontal
9648.00	32.06	38.07	14.16	31.56	52.73	74.00	-21.27	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.33	31.79	8.62	32.1	36.64	54.00	-17.36	Vertical
7236.00	22.02	36.19	11.68	31.97	37.92	54.00	-16.08	Vertical
9648.00	22.68	38.07	14.16	31.56	43.35	54.00	-10.65	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.27	31.79	8.62	32.1	35.58	54.00	-18.42	Horizontal
7236.00	21.15	36.19	11.68	31.97	37.05	54.00	-16.95	Horizontal
9648.00	19.29	38.07	14.16	31.56	39.96	54.00	-14.04	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamp Factor*
2. *“*”, means this data is the too weak instrument of signal is unable to test.*

Test mode:	802.11g	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	36.83	31.85	8.66	32.12	45.22	74.00	-28.78	Vertical
7311.00	32.48	36.37	11.71	31.91	48.65	74.00	-25.35	Vertical
9748.00	32.52	38.27	14.25	31.56	53.48	74.00	-20.52	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.85	31.85	8.66	32.12	48.24	74.00	-25.76	Horizontal
7311.00	34.33	36.37	11.71	31.91	50.50	74.00	-23.50	Horizontal
9748.00	32.01	38.27	14.25	31.56	52.97	74.00	-21.03	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	28.24	31.85	8.66	32.12	36.63	54.00	-17.37	Vertical
7311.00	20.84	36.37	11.71	31.91	37.01	54.00	-16.99	Vertical
9748.00	23.60	38.27	14.25	31.56	44.56	54.00	-9.44	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	27.64	31.85	8.66	32.12	36.03	54.00	-17.97	Horizontal
7311.00	23.12	36.37	11.71	31.91	39.29	54.00	-14.71	Horizontal
9748.00	20.76	38.27	14.25	31.56	41.72	54.00	-12.28	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplicifier Factor*
2. *“*” , means this data is the too weak instrument of signal is unable to test.*

Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	43.10	31.9	8.7	32.15	51.55	74.00	-22.45	Vertical
7386.00	34.17	36.49	11.76	31.83	50.59	74.00	-23.41	Vertical
9848.00	37.65	38.62	14.31	31.77	58.81	74.00	-15.19	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.99	31.9	8.7	32.15	52.44	74.00	-21.56	Horizontal
7386.00	32.93	36.49	11.76	31.83	49.35	74.00	-24.65	Horizontal
9848.00	30.98	38.62	14.31	31.77	52.14	74.00	-21.86	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.77	31.9	8.7	32.15	44.22	54.00	-9.78	Vertical
7386.00	23.83	36.49	11.76	31.83	40.25	54.00	-13.75	Vertical
9848.00	24.94	38.62	14.31	31.77	46.10	54.00	-7.90	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.24	31.9	8.7	32.15	41.69	54.00	-12.31	Horizontal
7386.00	22.45	36.49	11.76	31.83	38.87	54.00	-15.13	Horizontal
9848.00	23.22	38.62	14.31	31.77	44.38	54.00	-9.62	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*”, means this data is the too weak instrument of signal is unable to test.*

Test mode:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	43.11	31.79	8.62	32.1	51.42	74.00	-22.58	Vertical
7236.00	32.84	36.19	11.68	31.97	48.74	74.00	-25.26	Vertical
9648.00	36.57	38.07	14.16	31.56	57.24	74.00	-16.76	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	45.18	31.79	8.62	32.1	53.49	74.00	-20.51	Horizontal
7236.00	32.41	36.19	11.68	31.97	48.31	74.00	-25.69	Horizontal
9648.00	33.26	38.07	14.16	31.56	53.93	74.00	-20.07	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	33.36	31.79	8.62	32.1	41.67	54.00	-12.33	Vertical
7236.00	24.88	36.19	11.68	31.97	40.78	54.00	-13.22	Vertical
9648.00	26.56	38.07	14.16	31.56	47.23	54.00	-6.77	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	32.23	31.79	8.62	32.1	40.54	54.00	-13.46	Horizontal
7236.00	23.05	36.19	11.68	31.97	38.95	54.00	-15.05	Horizontal
9648.00	23.36	38.07	14.16	31.56	44.03	54.00	-9.97	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*” , means this data is the too weak instrument of signal is unable to test.*

Test mode:	802.11n(HT20)	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	43.36	31.85	8.66	32.12	51.75	74.00	-22.25	Vertical
7311.00	31.47	36.37	11.71	31.91	47.64	74.00	-26.36	Vertical
9748.00	38.19	38.27	14.25	31.56	59.15	74.00	-14.85	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	43.00	31.85	8.66	32.12	51.39	74.00	-22.61	Horizontal
7311.00	33.02	36.37	11.71	31.91	49.19	74.00	-24.81	Horizontal
9748.00	33.46	38.27	14.25	31.56	54.42	74.00	-19.58	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	32.77	31.85	8.66	32.12	41.16	54.00	-12.84	Vertical
7311.00	24.52	36.37	11.71	31.91	40.69	54.00	-13.31	Vertical
9748.00	25.95	38.27	14.25	31.56	46.91	54.00	-7.09	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	33.86	31.85	8.66	32.12	42.25	54.00	-11.75	Horizontal
7311.00	22.27	36.37	11.71	31.91	38.44	54.00	-15.56	Horizontal
9748.00	21.30	38.27	14.25	31.56	42.26	54.00	-11.74	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	41.62	31.9	8.7	32.15	50.07	74.00	-23.93	4924.00
7386.00	34.83	36.49	11.76	31.83	51.25	74.00	-22.75	7386.00
9848.00	38.18	38.62	14.31	31.77	59.34	74.00	-14.66	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.38	31.9	8.7	32.15	51.83	74.00	-22.17	Horizontal
7386.00	31.04	36.49	11.76	31.83	47.46	74.00	-26.54	Horizontal
9848.00	34.03	38.62	14.31	31.77	55.19	74.00	-18.81	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	33.00	31.9	8.7	32.15	41.45	54.00	-12.55	Vertical
7386.00	22.42	36.49	11.76	31.83	38.84	54.00	-15.16	Vertical
9848.00	23.14	38.62	14.31	31.77	44.30	54.00	-9.70	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.65	31.9	8.7	32.15	42.10	54.00	-11.90	Horizontal
7386.00	22.69	36.49	11.76	31.83	39.11	54.00	-14.89	Horizontal
9848.00	21.21	38.62	14.31	31.77	42.37	54.00	-11.63	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is the too weak instrument of signal is unable to test.

■ Above 1GHz

■ RH-1002:

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	38.68	31.79	8.62	32.1	46.99	74.00	-27.01	Vertical
7236.00	32.04	36.19	11.68	31.97	47.94	74.00	-26.06	Vertical
9648.00	31.19	38.07	14.16	31.56	51.86	74.00	-22.14	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.66	31.79	8.62	32.1	47.97	74.00	-26.03	Horizontal
7236.00	32.90	36.19	11.68	31.97	48.80	74.00	-25.20	Horizontal
9648.00	32.60	38.07	14.16	31.56	53.27	74.00	-20.73	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	24.56	31.79	8.62	32.1	32.87	54.00	-21.13	Vertical
7236.00	21.89	36.19	11.68	31.97	37.79	54.00	-16.21	Vertical
9648.00	20.24	38.07	14.16	31.56	40.91	54.00	-13.09	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	31.19	31.79	8.62	32.1	39.50	54.00	-14.50	Horizontal
7236.00	24.35	36.19	11.68	31.97	40.25	54.00	-13.75	Horizontal
9648.00	19.46	38.07	14.16	31.56	40.13	54.00	-13.87	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

3. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*

4. *“*”*, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11b	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.81	31.85	8.66	32.12	48.20	74.00	-25.80	Vertical
7311.00	32.13	36.37	11.71	31.91	48.30	74.00	-25.70	Vertical
9748.00	33.67	38.27	14.25	31.56	54.63	74.00	-19.37	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.52	31.85	8.66	32.12	45.91	74.00	-28.09	Horizontal
7311.00	31.36	36.37	11.71	31.91	47.53	74.00	-26.47	Horizontal
9748.00	34.00	38.27	14.25	31.56	54.96	74.00	-19.04	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	28.10	31.85	8.66	32.12	36.49	54.00	-17.51	Vertical
7311.00	20.70	36.37	11.71	31.91	36.87	54.00	-17.13	Vertical
9748.00	22.15	38.27	14.25	31.56	43.11	54.00	-10.89	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.17	31.85	8.66	32.12	37.56	54.00	-16.44	Horizontal
7311.00	20.64	36.37	11.71	31.91	36.81	54.00	-17.19	Horizontal
9748.00	24.26	38.27	14.25	31.56	45.22	54.00	-8.78	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

3. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*

4. *“*”*, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	42.91	31.9	8.7	32.15	51.36	74.00	-22.64	Vertical
7386.00	33.35	36.49	11.76	31.83	49.77	74.00	-24.23	Vertical
9848.00	36.99	38.62	14.31	31.77	58.15	74.00	-15.85	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.66	31.9	8.7	32.15	52.11	74.00	-21.89	Horizontal
7386.00	32.08	36.49	11.76	31.83	48.50	74.00	-25.50	Horizontal
9848.00	32.94	38.62	14.31	31.77	54.10	74.00	-19.90	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	32.50	31.9	8.7	32.15	40.95	54.00	-13.05	Vertical
7386.00	24.68	36.49	11.76	31.83	41.10	54.00	-12.90	Vertical
9848.00	25.59	38.62	14.31	31.77	46.75	54.00	-7.25	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	32.38	31.9	8.7	32.15	40.83	54.00	-13.17	Horizontal
7386.00	22.18	36.49	11.76	31.83	38.60	54.00	-15.40	Horizontal
9848.00	23.43	38.62	14.31	31.77	44.59	54.00	-9.41	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

3. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplicifier Factor*

4. *“*”, means this data is the too weak instrument of signal is unable to test.*

Test mode:	802.11g	Test channel:	lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.72	31.79	8.62	32.1	49.03	74.00	-24.97	Vertical
7236.00	34.13	36.19	11.68	31.97	50.03	74.00	-23.97	Vertical
9648.00	33.60	38.07	14.16	31.56	54.27	74.00	-19.73	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.79	31.79	8.62	32.1	48.10	74.00	-25.90	Horizontal
7236.00	33.28	36.19	11.68	31.97	49.18	74.00	-24.82	Horizontal
9648.00	31.39	38.07	14.16	31.56	52.06	74.00	-21.94	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.40	31.79	8.62	32.1	36.71	54.00	-17.29	Vertical
7236.00	23.31	36.19	11.68	31.97	39.21	54.00	-14.79	Vertical
9648.00	21.07	38.07	14.16	31.56	41.74	54.00	-12.26	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	25.85	31.79	8.62	32.1	34.16	54.00	-19.84	Horizontal
7236.00	23.48	36.19	11.68	31.97	39.38	54.00	-14.62	Horizontal
9648.00	22.04	38.07	14.16	31.56	42.71	54.00	-11.29	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

3. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamp Factor*

4. *“*”*, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11g	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.94	31.85	8.66	32.12	48.33	74.00	-25.67	Vertical
7311.00	34.34	36.37	11.71	31.91	50.51	74.00	-23.49	Vertical
9748.00	31.11	38.27	14.25	31.56	52.07	74.00	-21.93	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.46	31.85	8.66	32.12	47.85	74.00	-26.15	Horizontal
7311.00	33.16	36.37	11.71	31.91	49.33	74.00	-24.67	Horizontal
9748.00	32.57	38.27	14.25	31.56	53.53	74.00	-20.47	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	27.17	31.85	8.66	32.12	35.56	54.00	-18.44	Vertical
7311.00	21.65	36.37	11.71	31.91	37.82	54.00	-16.18	Vertical
9748.00	22.64	38.27	14.25	31.56	43.60	54.00	-10.40	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	26.11	31.85	8.66	32.12	34.50	54.00	-19.50	Horizontal
7311.00	22.22	36.37	11.71	31.91	38.39	54.00	-15.61	Horizontal
9748.00	21.90	38.27	14.25	31.56	42.86	54.00	-11.14	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

3. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplicifier Factor*

4. *“*”*, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	42.29	31.9	8.7	32.15	50.74	74.00	-23.26	Vertical
7386.00	34.82	36.49	11.76	31.83	51.24	74.00	-22.76	Vertical
9848.00	37.18	38.62	14.31	31.77	58.34	74.00	-15.66	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.88	31.9	8.7	32.15	51.33	74.00	-22.67	Horizontal
7386.00	34.16	36.49	11.76	31.83	50.58	74.00	-23.42	Horizontal
9848.00	30.95	38.62	14.31	31.77	52.11	74.00	-21.89	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	34.10	31.9	8.7	32.15	42.55	54.00	-11.45	Vertical
7386.00	23.69	36.49	11.76	31.83	40.11	54.00	-13.89	Vertical
9848.00	25.02	38.62	14.31	31.77	46.18	54.00	-7.82	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.09	31.9	8.7	32.15	41.54	54.00	-12.46	Horizontal
7386.00	21.21	36.49	11.76	31.83	37.63	54.00	-16.37	Horizontal
9848.00	20.89	38.62	14.31	31.77	42.05	54.00	-11.95	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

3. *Final Level* = Receiver Read level + Antenna Factor + Cable Loss – Preamplicifier Factor

4. “*”, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	42.28	31.79	8.62	32.1	50.59	74.00	-23.41	Vertical
7236.00	32.72	36.19	11.68	31.97	48.62	74.00	-25.38	Vertical
9648.00	35.93	38.07	14.16	31.56	56.60	74.00	-17.40	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	43.46	31.79	8.62	32.1	51.77	74.00	-22.23	Horizontal
7236.00	33.52	36.19	11.68	31.97	49.42	74.00	-24.58	Horizontal
9648.00	33.28	38.07	14.16	31.56	53.95	74.00	-20.05	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	35.54	31.79	8.62	32.1	43.85	54.00	-10.15	Vertical
7236.00	24.73	36.19	11.68	31.97	40.63	54.00	-13.37	Vertical
9648.00	26.46	38.07	14.16	31.56	47.13	54.00	-6.87	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	32.25	31.79	8.62	32.1	40.56	54.00	-13.44	Horizontal
7236.00	22.30	36.19	11.68	31.97	38.20	54.00	-15.80	Horizontal
9648.00	20.69	38.07	14.16	31.56	41.36	54.00	-12.64	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11n(HT20)	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	41.99	31.85	8.66	32.12	50.38	74.00	-23.62	Vertical
7311.00	34.85	36.37	11.71	31.91	51.02	74.00	-22.98	Vertical
9748.00	36.70	38.27	14.25	31.56	57.66	74.00	-16.34	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	41.87	31.85	8.66	32.12	50.26	74.00	-23.74	Horizontal
7311.00	30.84	36.37	11.71	31.91	47.01	74.00	-26.99	Horizontal
9748.00	31.32	38.27	14.25	31.56	52.28	74.00	-21.72	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	32.59	31.85	8.66	32.12	40.98	54.00	-13.02	Vertical
7311.00	23.41	36.37	11.71	31.91	39.58	54.00	-14.42	Vertical
9748.00	22.68	38.27	14.25	31.56	43.64	54.00	-10.36	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	31.47	31.85	8.66	32.12	39.86	54.00	-14.14	Horizontal
7311.00	23.05	36.37	11.71	31.91	39.22	54.00	-14.78	Horizontal
9748.00	20.49	38.27	14.25	31.56	41.45	54.00	-12.55	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*” , means this data is the too weak instrument of signal is unable to test.*

Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	43.22	31.9	8.7	32.15	51.67	74.00	-22.33	4924.00
7386.00	31.44	36.49	11.76	31.83	47.86	74.00	-26.14	7386.00
9848.00	37.97	38.62	14.31	31.77	59.13	74.00	-14.87	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.60	31.9	8.7	32.15	51.05	74.00	-22.95	Horizontal
7386.00	32.81	36.49	11.76	31.83	49.23	74.00	-24.77	Horizontal
9848.00	31.99	38.62	14.31	31.77	53.15	74.00	-20.85	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	36.06	31.9	8.7	32.15	44.51	54.00	-9.49	Vertical
7386.00	25.31	36.49	11.76	31.83	41.73	54.00	-12.27	Vertical
9848.00	23.09	38.62	14.31	31.77	44.25	54.00	-9.75	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	30.92	31.9	8.7	32.15	39.37	54.00	-14.63	Horizontal
7386.00	21.99	36.49	11.76	31.83	38.41	54.00	-15.59	Horizontal
9848.00	20.67	38.62	14.31	31.77	41.83	54.00	-12.17	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

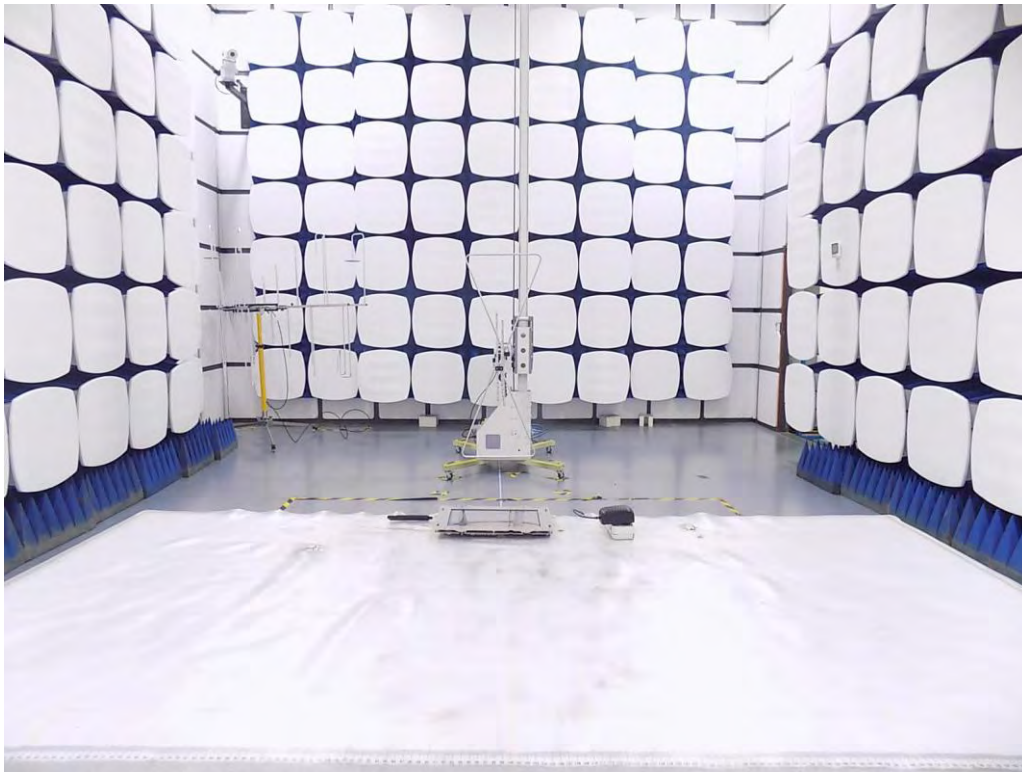
Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is the too weak instrument of signal is unable to test.

5 Test Setup Photo

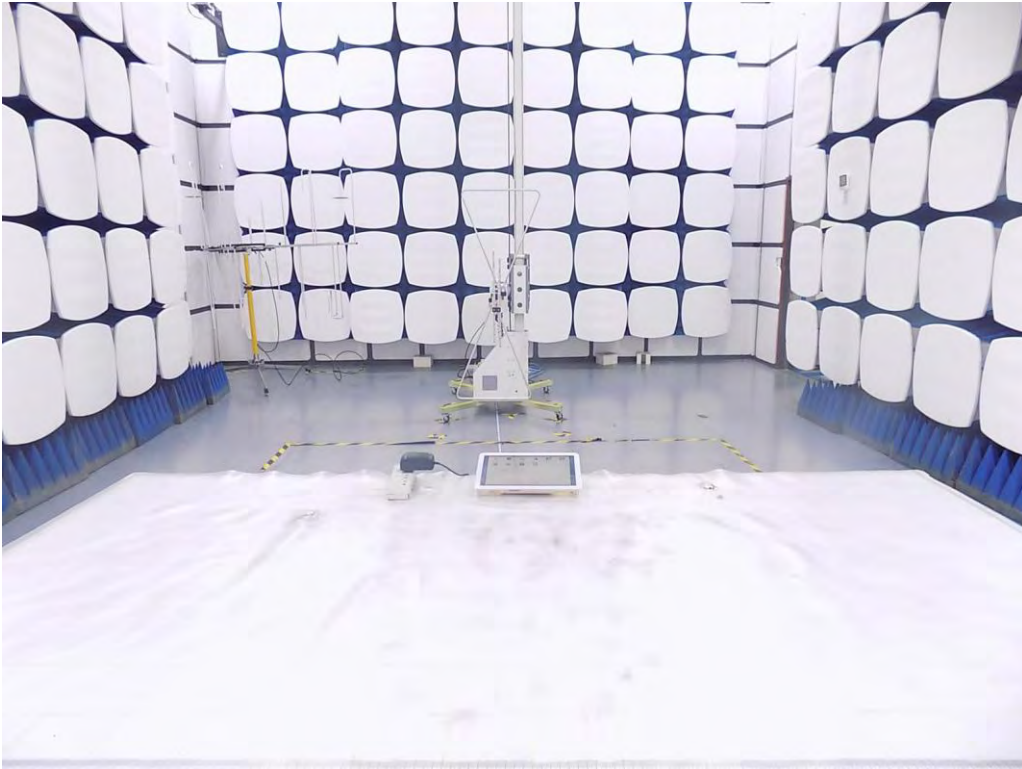
Radiated Emission

RH-1001



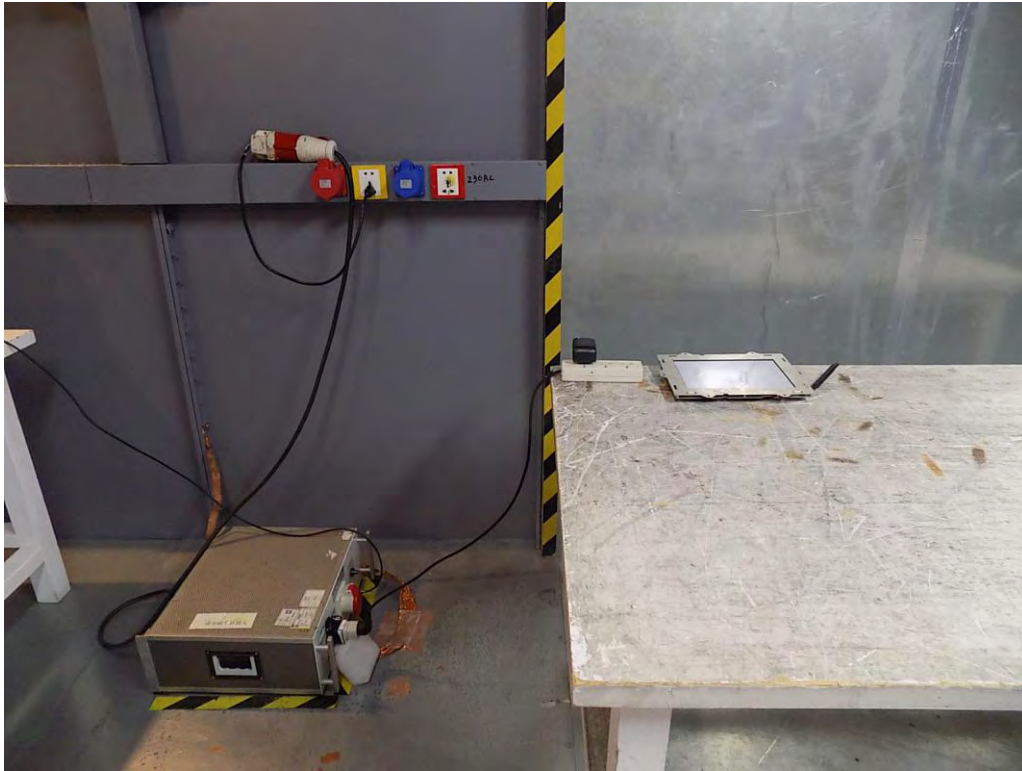
Radiated Emission

RH-1002

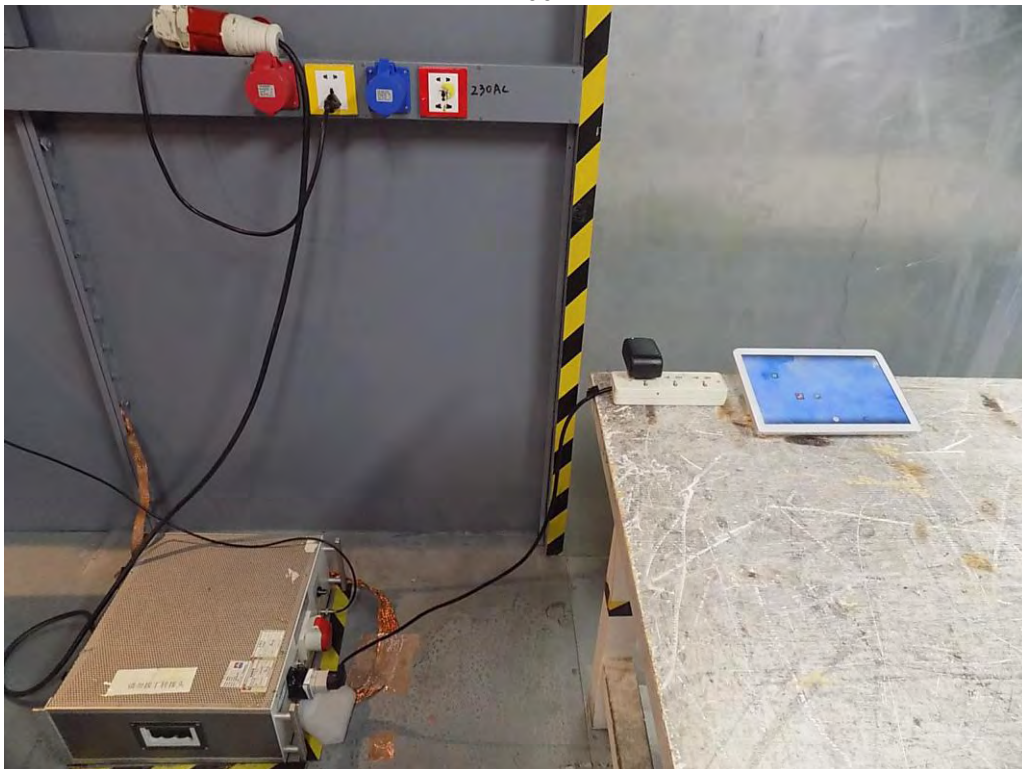


Conducted Emission

RH-1001



RH-1002



6 EUT Constructional Details

Please refer to report T1880643 01.

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