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TEST REPORT For WiFi-2.4GHz Band				
Report No	CHTEW22090024 SHT2208180705EW	Report Verification:		
FCC ID	2A77C-B8U			
Applicant's name:	Sichuan Changhong Elect	ric Co.,Ltd.		
Address	35 Mianxing East Road, HI-T City	Fech Development Zone, Mianyang		
Product Name:	Laser Theater Projector			
Trade Mark:	CHIQ			
Model No	B8U			
Listed Model(s)	-			
Standard:	FCC CFR Title 47 Part 15 Subpart C Section 15.247			
Date of receipt of test sample	Aug.16, 2022			
Date of testing	Aug.16, 2022- Sep.08, 2022			
Date of issue	Sep.09, 2022			
Result	PASS			
Compiled by (Position+Printed name+Signature):	File administrator Echo Wei	Echo Wei		
Supervised by (Position+Printed name+Signature):	Project Engineer Kiki Kong	page kong		
Approved by (Position+Printed name+Signature):	RF Manager Hans Hu	Hamsty		
Testing Laboratory Name: :	Shenzhen Huatongwei International Inspection Co., Ltd.			
Address	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China			
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The test report merely correspond to the test sample.				

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Date of issue:

<u>1.</u>

2022-09-09

1.1. Test Standards

The tests were performed according to following standards:

- FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- <u>ANSI C63.10:2013</u>: American National Standard for Testing Unlicensed Wireless Devices
- <u>KDB 558074 D01 15.247 Meas Guidance v05r02</u>: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules
- <u>KDB662911 D01 Multiple Transmitter Output v02r01</u>: Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
- KDB662911 D02 MIMO with Cross-Polarized Antennas v01: MIMO with Cross-Polarized Antenna

1.2. Report version

Revision No.	Date of issue	Description
N/A	2022-09-09	Change the appearance material of the EUT(replace the aluminum sheet pasted on the plastic plate with a metal film), update Conducted Emission, Radiated Spurious Emission, test setup photos and external photos of the EUT based on the report CHTEW22080206(2022-08-10)

2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result	Test Engineer
5.1	Antenna Requirement	15.203/15.247(c)	PASS	Xiaoxiao Li
5.2	AC Conducted Emission	15.207	PASS	Junman Wang
5.3	Peak Output Power	15.247(b)(3)	PASS	Xiaoxiao Li
5.4	Power Spectral Density	15.247(e)	PASS	Xiaoxiao Li
5.5	6dB Bandwidth	15.247(a)(2)	PASS	Xiaoxiao Li
5.6	99% Occupied Bandwidth	-	PASS ^{*1}	Xiaoxiao Li
5.7	Duty cycle	-	PASS ^{*1}	Xiaoxiao Li
5.8	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS	Xiaoxiao Li
5.9	Radiated Band Edge Emission	15.205/15.209	PASS	Xiaoxiao Li
5.10	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS	Chuanfeng Li

Note:

- The measurement uncertainty is not included in the test result.

- *1: No requirement on standard, only report these test data.

3.1. Client Information

Applicant:	Sichuan Changhong Electric Co.,Ltd.	
Address:	35 Mianxing East Road, HI-Tech Development Zone, Mianyang City	
Manufacturer:	Sichuan Changhong Electric Co.,Ltd.	
Address:	35 Mianxing East Road, HI-Tech Development Zone, Mianyang City	

3.2. Product Description

Main unit information:		
Product Name:	Laser Theater Projector	
Trade Mark:	CHIQ	
Model No.:	B8U	
Listed Model(s):	-	
Power supply:	AC 120V form AC power	
Hardware version:	JUN7.820.5426	
Software version:	V1.00001	

3.3. Radio Specification Description

Support type ^{*2} :	🖾 802.11b	🖾 802.11g	🛛 802.11n
Support bandwidth:	🛛 20MHz	🖾 40MHz	
Modulation:	802.11b:	DBPSK, DQPSK, BPSK, QPSK	
	802.11g/n:	BPSK, QPSK, 16QAM, 64QAM	
Operation frequency:	802.11b/g/n(HT20):	2412MHz~2462MHz	
Operation frequency.	802.11n(HT40)	2422MHz~2452MHz	
Channel number:	802.11b/g/n(HT20):	11	
Channel humber.	802.11n(HT40)	7	
Channel separation:	5MHz		
Antenna technology:			
Antenna Delivery: 1*TX+1*RX		🛛 2*TX+2*RX	□ 3*TX+3*RX
Antenna type:	Internal Antenna		
Antonno goin:	ANT0:3.21dBi		
Antenna gain:	ANT1:3.04dBi		

Note:

*2: only show the RF function associated with this report.

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.		
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China		
Connect information:	Phone: 86-755-26715499 E-mail: <u>cs@szhtw.com.cn</u> <u>http://www.szhtw.com.cn</u>		
Qualificationa	Туре	Accreditation Number	
Qualifications	FCC	762235	

4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

802.11b/802.11g/802.11n(HT20)		802.11n(HT40)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	03	2422
02	2417	04	2427
· :	• :	· :	· :
06	2437	06	2437
· :	• :	• :	• :
10	2457	08	2447
11	2462	09	2452

4.2. Descriptions of Test mode

Preliminary tests were performed in different data rates, final test modes are considering the modulation and worse data rates as below table.

Modulation	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0

4.3. Test mode

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

4.4. Test sample information

Test item	HTW sample no.	
RF Conducted test items	Please refer to the description in the appendix report	
RF Radiated test items	YPHT22060506003	
EMI test items	YPHT22081807001	

Note:

RF Conducted test items: Peak Output Power, Power Spectral Density, 6dB Bandwidth, 99% Occupied Bandwidth, Duty cycle, Conducted Band Edge and Spurious Emission

RF Radiated test items: Radiated Band Edge Emission, Radiated Spurious Emission EMI test items: AC Conducted Emission

4.5. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?			
✓ No			
Item	Equipment	Trade Name	Model No.
1			
2			

4.6. Testing environmental condition

Туре	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.7. Statement of the measurement uncertainty

Test Item	Measurement Uncertainty
AC Conducted Emission (150kHz~30MHz)	3.00 dB
Radiated Emission (30MHz~1000MHz	4.36 dB
Radiated Emissions (1GHz~25GHz)	5.10 dB
Peak Output Power	0.77dB
Power Spectral Density	0.77dB
Conducted Spurious Emission	0.77dB
6dB Bandwidth	70Hz for <1GHz 130Hz for >1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

•	Conducted E	mission					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27
•	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2021/09/14	2022/09/13
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2021/09/17	2022/09/16
•	Pulse Limiter	R&S	HTWE0193	ESH3-Z2	101447	2021/09/16	2022/09/15
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2021/09/17	2022/09/16
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emi	ssion-6th test sit	te				
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2022/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2021/09/14	2022/09/13
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/06	2024/04/05
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/06	2024/04/05
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2021/11/05	2022/11/04
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2022/02/25	2023/02/24
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated em	ission-7th test s	ite				
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2018/09/27	2022/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2021/09/13	2022/09/12
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2020/04/27	2023/04/26
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2021/11/05	2022/11/04
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2022/02/28	2023/02/27
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0119-05	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

•	RF Conducted Method					
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	FSV40	100048	2021/09/13	2022/09/12
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2021/09/13	2022/09/12
•	Power Meter	Anritsu	ML249A	N/A	2021/09/13	2022/09/12
0	Radio communication tester	R&S	CMW500	137688-Lv	2021/09/13	2022/09/12

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

<u>Requirement</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responseble 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.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(b) (4):

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST RESULT

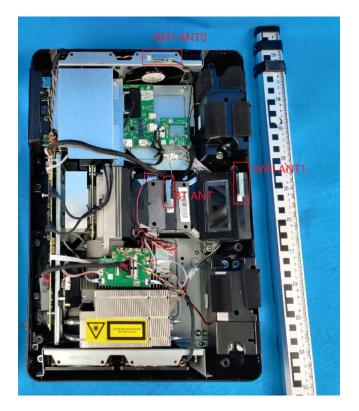
☑ Passed □ Not Applicable

The product has two Internal antennas, antenna 0 with 3.21dBi max gain and antenna 1 with 3.04 dBi max gain, since these two antennas is correlated, according to KDB 662911 D01 section F 2) d) (i),

the Directional gain=10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2 / N_{ANT}$] dBi

=6.14 dBi

please refer to the below antenna photo.



5.2. AC Conducted Emission

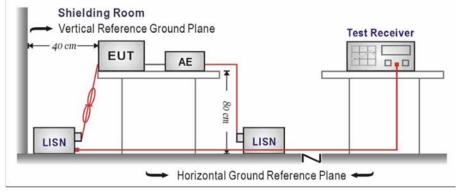
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

	Limit (dBuV)					
Frequency range (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.

TEST CONFIGURATION



TEST PROCEDURE

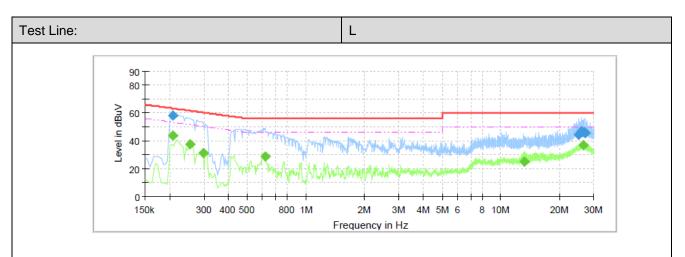
- 1. The EUT was setup according to ANSI C63.10 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

Please refer to the clause 4.2

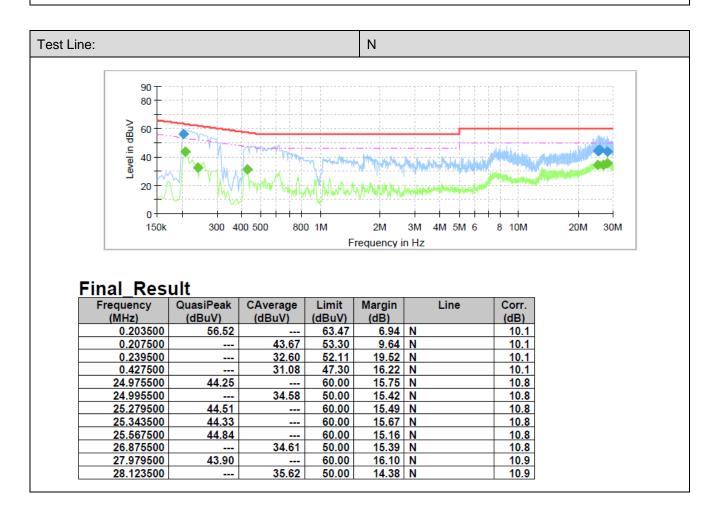
TEST RESULT

☑ Passed □ Not Applicable



Final_Result

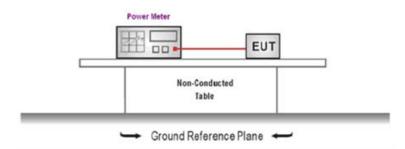
Frequency	QuasiPeak	CAverage	Limit	Margin	Line	Corr.
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dB)		(dB)
0.207500		44.04	53.30	9.27	L1	10.1
0.207500	58.20		63.30	5.11	L1	10.1
0.255500		37.29	51.58	14.29	L1	10.1
0.299500		30.97	50.26	19.29	L1	10.1
0.619500		28.86	46.00	17.14	L1	10.1
13.223500		25.01	50.00	24.99	L1	10.6
25.003500	44.23		60.00	15.77	L1	11.0
25.823500	46.58		60.00	13.42	L1	11.0
26.119500	46.48		60.00	13.52	L1	11.0
26.587500		36.98	50.00	13.02	L1	11.0
26.707500	46.41		60.00	13.59	L1	11.0
26.983500	45.86		60.00	14.14	L1	11.0



5.3. Peak Output Power

LIMIT FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
- 3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
- 4. Record the measurement data.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

TEST DATA

Please refer to appendix A on the appendix report

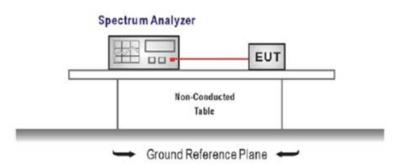
5.4. Power Spectral Density

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input,
- Configure the spectrum analyzer as shown below: Center frequency=DTS channel center frequency Span =1.5 times the DTS bandwidth RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW Sweep time = auto couple Detector = peak Trace mode = max hold
 Place the radio in continuous transmit mode, allow the
- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

TEST DATA

Please refer to appendix B on the appendix report

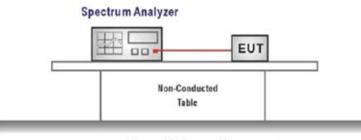
5.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



Ground Reference Plane

TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth

 $RBW = 100 kHz, VBW \ge 3 \times RBW$

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

TEST DATA

Please refer to appendix C on the appendix report

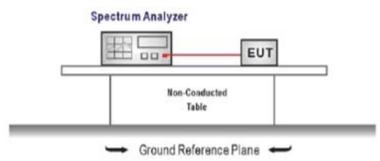
2022-09-09

5.6. 99% Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =channel center frequency Span≥1.5 x OBW RBW = 1%~5%OBW VBW ≥ 3 × RBW Sweep time= auto couple Detector = Peak Trace mode = max hold

3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

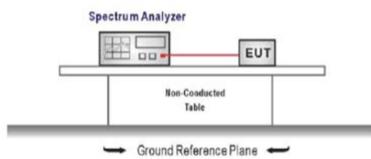
☑ Passed □ Not Applicable

TEST DATA

Please refer to appendix D on the appendix report

2022-09-09

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- 3. Use the following spectrum analyzer settings:

Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW ≥ RBW Sweep=as necessary to capture the entire dwell time,

Detector function = peak, Trigger mode

4. Measure and record the duty cycle data

TEST MODE:

Please refer to the clause 4.2

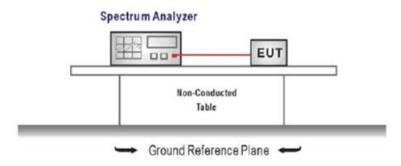
TEST DATA

Please refer to appendix E on the appendix report

5.8. Conducted Band edge and Spurious Emission LIMIT

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):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 CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- Establish a reference level by using the following procedure Center frequency=DTS channel center frequency The span = 1.5 times the DTS bandwidth. RBW = 100 kHz, VBW ≥ 3 x RBW Detector = peak, Sweep time = auto couple, Trace mode = max hold
 - Allow trace to fully stabilize

Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

3. Emission level measurement

Set the center frequency and span to encompass frequency range to be measured RBW = 100 kHz, VBW \ge 3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum amplitude level.

- 4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

<u>TEST DATA</u>

Please refer to appendix F on the appendix report

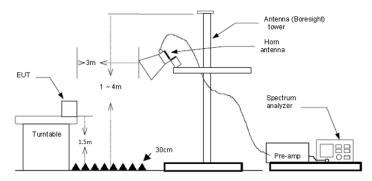
5.9. Radiated Band edge Emission

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
- 5. Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, 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, so refer to this clasue 5.6 duty cycle.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

Note:

- 1) Level= Reading + Factor; Factor = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).
- 4) Pre-scan all modulation mode and antenna. 802.11b/g/n in the report only displays the worst antenna information. The worst antenna is antenna 1.

Date of issue:

Туре		802.1	1b	Test channel		CH0 ²	CH01		Polarity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2310.00	40.52	27.96	5.95	37.56	20.00	56.87	74.00	-17.13	Peak	
	2	2390.01	36.88	27.72	6.19	37.45	20.00	53.34	74.00	-20.66	Peak	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2310.00	30.80	27.96	5.95	37.56	20.00	47.15	54.00	-6.85	Average	
	2	2390.01	30.45	27.72	6.19	37.45	20.00	46.91	54.00	-7.09	Average	

Туре		802.1	1b	Test channel		CH0	CH01		Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	
	1	2310.00 2390.01	35.96 36.88	27.96 27.72	5.95 6.19	37.56 37.45	20.00 20.00	52.31 53.34	74.00 74.00	-21.69 -20.66	Peak Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	30.24	27.96	5.95	37.56	20.00	46.59	54.00	-7.41	Average
	2	2390.01	30.68	27.72	6.19	37.45	20.00	47.14	54.00	-6.86	Average

Туре	802.1		1b	Test ch	Test channel		CH11		arity		Horizontal	
	Mark 1 2	Frequency MHz 2483.49 2500.00	Reading dBuV/m 37.13 37.19	Antenna dB 27.43 27.40	Cable dB 6.16 6.15	Preamp dB 37.26 37.26	Aux dB 20.00 20.00	Level dBuV/m 53.46 53.48	Limit dBuV/m 74.00 74.00	-20.5	t 4 Peak	
	- Mark 1	Frequency MHz 2483.49	Reading dBuV/m 30.29	Antenna dB 27.43	Cable dB 6.16	Preamp dB 37.26	Aux dB 20.00	Level dBuV/m 46.62	Limit dBuV/m 54.00	Over limit -7.38	Remark	
	2	2500.00	29.44	27.40	6.15	37.26	20.00	45.73	54.00	-8.27	Average	

Туре		802.11	1b	Test ch	annel	CH1	1	Pol	arity		Vertical
Mar		requency Hz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	483.49	37.89	27.43	6.16	37.26	20.00	54.22	74.00	-19.78	Peak
	2 2	500.00	36.83	27.40	6.15	37.26	20.00	53.12	74.00	-20.88	Peak
Mar		requency Hz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	483.49	29.68	27.43	6.16	37.26	20.00	46.01	54.00	-7.99	Average
	2 2	500.00	28.82	27.40	6.15	37.26	20.00	45.11	54.00	-8.89	Average

Date of issue:

Туре		802.11	lg	Test channel		CH0	CH01		arity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	39.33	27.96	5.95	37.56	20.00	55.68	74.00	-18.32	Peak
	2	2390.01	37.22	27.72	6.19	37.45	20.00	53.68	74.00	-20.32	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	26.09	27.96	5.95	37.56	20.00	42.44	54.00	-11.56	Average
	2	2390.01	25.94	27.72	6.19	37.45	20.00	42.40	54.00	-11.60	Average

Туре	802.11g			Test ch	Test channel			Pola	Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	37.34	27.96	5.95	37.56	20.00	53.69	74.00	-20.31	Peak
	2	2390.01	36.51	27.72	6.19	37.45	20.00	52.97	74.00	-21.03	9 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	25.89	27.96	5.95	37.56	20.00	42.24	54.00	-11.76	Average
	2	2390.01	25.94	27.72	6.19	37.45	20.00	42.40	54.00	-11.60	Average

Туре	802.11g			Test channel		CH11		Polarity			Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	36.19	27.43	6.16	37.26	20.00	52.52	74.00	-21.48	Peak
	2	2500.00	37.11	27.40	6.15	37.26	20.00	53.40	74.00	-20.60	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	25.34	27.43	6.16	37.26	20.00	41.67	54.00	-12.33	Average
	2	2500.00	25.43	27.40	6.15	37.26	20.00	41.72	54.00	-12.28	Average

Туре	802.11		g	Test channel		CH1 ²	CH11		arity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m		t
	1 2	2483.49 2500.00	37.44 36.72	27.43 27.40	6.16 6.15	37.26 37.26	20.00 20.00	53.77 53.01	74.00 74.00		
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483.49 2500.00	25.98 25.59	27.43 27.40	6.16 6.15	37.26 37.26	20.00 20.00	42.31 41.88		-11.69 -12.12	Average Average

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Туре	802.11n(HT20)			Test ch	annel	CH01		Pol	arity	I	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	
	1	2310.00	36.79	27.96	5.95	37.56	20.00	53.14	74.00	-20.8	5 Peak
	2	2390.01	37.03	27.72	6.19	37.45	20.00	53.49	74.00	-20.5	1 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	26.29	27.96	5.95	37.56	20.00	42.64	54.00	-11.36	Average
	2	2390.01	25.93	27.72	6.19	37.45	20.00	42.39	54.00	-11.61	Average

Туре		802.11	In(HT20)	Test ch	annel	CH0 ⁻	1	Pol	arity		Vertical
Mari		requency Hz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	
1	1 2	310.00	37.10	27.96	5.95	37.56	20.00	53.45	74.00	-20.5	5 Peak
:	2 2	390.01	37.50	27.72	6.19	37.45	20.00	53.96	74.00	-20.0)4 Peak
Mark		requency Iz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	23	310.00	25.83	27.96	5.95	37.56	20.00	42.18	54.00	-11.82	Average
2	23	90.01	26.21	27.72	6.19	37.45	20.00	42.67	54.00	-11.33	Average

Туре	802.11		n(HT20)	Test channel		CH11	I	Pola	arity	H	lorizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	37.37	27.43	6.16	37.26	20.00	53.70	74.00	-20.30	Peak
	2	2484.13	40.91	27.43	6.16	37.26	20.00	57.24	74.00	-16.76	Peak
	3	2500.00	36.93	27.40	6.15	37.26	20.00	53.22	74.00	-20.78	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	25.67	27.43	6.16	37.26	20.00	42.00	54.00	-12.00	Average
	2	2500.00	25.44	27.40	6.15	37.26	20.00	41.73	54.00	-12.27	Average

Туре		802.11n(HT20)		Test ch	Test channel		1	Pol	arity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	39.38	27.43	6.16	37.26	20.00	55.71	74.00	-18.29	Peak
	2	2483.92	45.44	27.43	6.16	37.26	20.00	61.77	74.00	-12.23	Peak
	3	2500.00	36.48	27.40	6.15	37.26	20.00	52.77	74.00	-21.23	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	26.59	27.43	6.16	37.26	20.00	42.92	54.00	-11.08	Average
	2	2500.00	25.68	27.40	6.15	37.26	20.00	41.97	54.00	-12.03	Average

Туре		802.1	1n(HT40)	Test channel		CH03		Po	arity		Horizontal
	Mark 1	Frequency MHz 2310.00	Reading dBuV/m 37.72	Antenna dB 27.96	Cable dB 5.95	Preamp dB 37.56	Aux dB 20.00	Level dBuV/m 54.07	Limit dBuV/m 74.00	Over limit -19.93	
	2	2389.99	38.81	27.72	6.19	37.45	20.00	55.27	74.00		
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	26.88	27.96	5.95	37.56	20.00	43.23	54.00	-10.77	Average
	2	2389.99	26.83	27.72	6.19	37.45	20.00	43.29	54.00	-10.71	Average

Туре	8	02.11n(HT40)	Test ch	annel	CH03	3	Pol	arity	١	/ertical
Mar	Freque MHz	ency Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	
1	2310.0	30 37.14	27.96	5.95	37.56	20.00	53.49	74.00	-20.5	1 Peak
1	2389.9	37.67	27.72	6.19	37.45	20.00	54.13	74.00	-19.8	7 Peak
Mari	Freque MHz	ency Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.0	26.39	27.96	5.95	37.56	20.00	42.74	54.00	-11.26	Average
	2389.9	9 27.88	27.72	6.19	37.45	20.00	44.34	54.00	-9.66	Average

Туре		802.11n(HT40)		Test channel		CHOS)	Polarity		1	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.50	38.14	27.43	6.16	37.26	20.00	54.47	74.00	-19.53	Peak
	2	2487.76	42.60	27.42	6.16	37.26	20.00	58.92	74.00	-15.08	8 Peak
	3	2500.00	37.61	27.40	6.15	37.26	20.00	53.90	74.00	-20.10) Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.50	27.05	27.43	6.16	37.26	20.00	43.38	54.00	-10.62	Average
	2	2500.00	25.94	27.40	6.15	37.26	20.00	42.23	54.00	-11.77	Average

Туре		802.11		Test channel		CHO	CH09		arity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.50	40.68	27.43	6.16	37.26	20.00	57.01	74.00	-16.99	9 Peak
	2	2488.30	43.37	27.42	6.16	37.26	20.00	59.69	74.00	-14.31	Peak
	3	2500.00	37.61	27.40	6.15	37.26	20.00	53.90	74.00	-20.10) Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.50	28.75	27.43	6.16	37.26	20.00	45.08	54.00	-8.92	Average
	2	2500.00	26.06	27.40	6.15	37.26	20.00	42.35	54.00	-11.65	Average

5.10. Radiated Spurious Emission

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

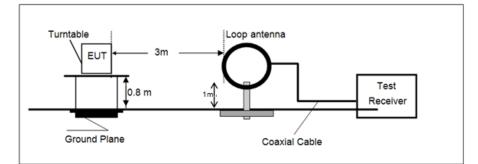
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

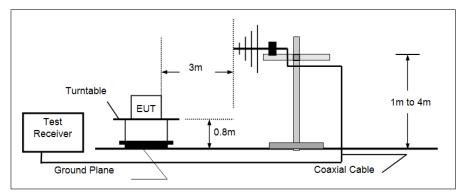
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

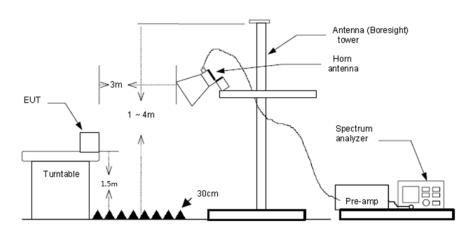
9 kHz ~ 30 MHz



> 30 MHz ~ 1 GHz



Above 1 GHz



Page:

TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, 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, so refer to this clasue 5.6 duty cycle.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

Note:

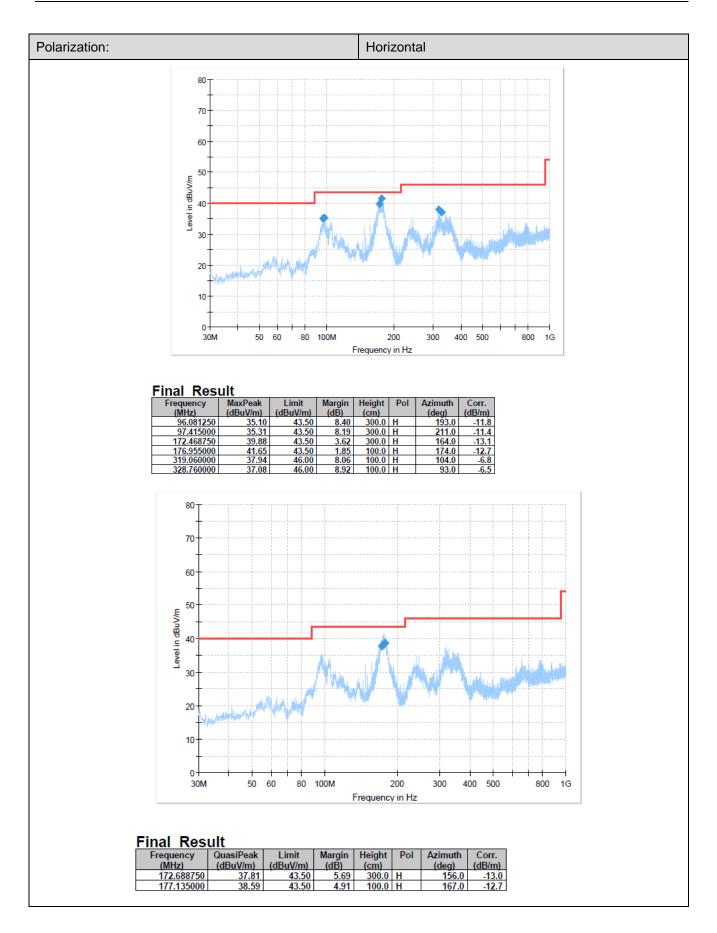
- 1) Level= Reading + Factor/Transd; Factor/Transd = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

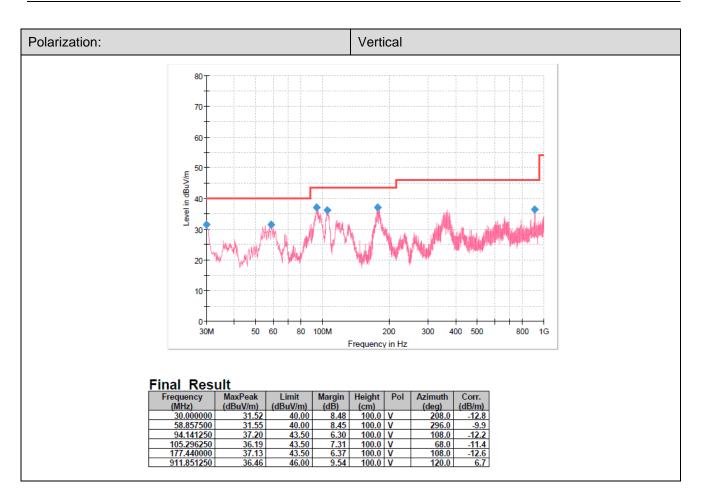
FOR 9 kHz ~ 30 MHz

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

FOR 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH06 of 802.11B which it was worst case, so only show the worst case's data on this report.





FOR 1 GHz ~ 25 GHz

The EUT was pre-scanned all modulation mode and antenna. 802.11b/g/n in the report only displays the worst antenna information. The worst antenna is antenna 1.

Туре		802.11b		Test channe	el C	CH01		Polarity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/r		Cable dB	Preamp dB	Leve dBuV/		Ove limi		
	1	3200.50	48.70	28.90	7.04	36.98	47.66	74.00	-26.3	4 Peak	
	2	4797.27	44.27	31.40	8.98	35.32	49.33	74.00	-24.6		
	3	6379.86	37.97	33.28	10.54	34.65	47.14	74.00	-26.8		
	4	7961.43	32.49	36.95	12.09	33.32	48.21	74.00	-25.7	9 Peak	
Туре		802.11b		Test channe	el C	CH01		Polarity		Vertical	
	Mark	Frequency MHz	Reading dBuV/r		Cable dB	Preamp dB	Leve dBuV/		Over limit		
	1	3200.50	46.28	28.90	7.04	36.98	45.24	74.00	-28.76	5 Peak	
	2	4797.27	44.34	31.40	8.98	35.32	49.40	74.00	-24.60	0 Peak	
	3	6396.13	37.25	33.38	10.56	34.67	46.52	74.00	-27.48	8 Peak	
	4	8002.06	32.83	37.10	12.22	33.31	48.84	74.00	-25.16	5 Peak	
Туре		802.11b		Test channe	el C	CH06		Polarity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/	-	Cable dB	Preamp dB	Leve dBuV/		Over limit		
	1	3168.08	48.95	28.96	7.04	37.12	47.83	74.00	-26.17		
	2	4760.78	45.53	31.40	9.16	35.47	50.62	74.00	-23.38		
	3	6396.13	36.30	33.38	10.56	34.67	45.57	74.00	-28.43	3 Peak	
	4	7921.00	30.03	36.84	11.96	33.33	45.50	74.00	-28.50) Peak	
Туре		802.11b		Test channe	el C	CH06		Polarity		Vertical	
	Mark	Frequency	Readin	g Antenna	Cable	Preamp	Leve	l Limit	0ver	r Remark	
		MHz	dBuV/	m dB	dB	dB	dBuV/	′m dBuV∕m	limit	t	
	1	3200.50	45 04	28.90	7.04		44.77	74.00	20.23	2 Deek	
			45.81			36.98			-29.23		
	2	4785.08	43.28	31.40	9.04	35.36	48.36	74.00	-25.64	4 Peak	
	3	4785.08 6396.13	43.28 37.46	31.40 33.38	9.04 10.56	35.36 34.67	48.36 46.73	74.00 74.00	-25.64	4 Peak 7 Peak	
		4785.08	43.28	31.40	9.04	35.36	48.36	74.00	-25.64	4 Peak 7 Peak	
Туре	3	4785.08 6396.13	43.28 37.46	31.40 33.38	9.04 10.56 12.16	35.36 34.67	48.36 46.73	74.00 74.00	-25.64	4 Peak 7 Peak	
Туре	3	4785.08 6396.13 7981.72 802.11b Frequency	43.28 37.46 32.28 Reading	31.40 33.38 37.03 Test channe	9.04 10.56 12.16	35.36 34.67 33.31 2H11 Preamp	48.36 46.73 48.16	74.00 74.00 74.00 Polarity	-25.64 -27.27 -25.84 Over	4 Peak 7 Peak 4 Peak Horizontal	
Туре	3 4	4785.08 6396.13 7981.72 802.11b Frequency MHz	43.28 37.46 32.28 Reading dBuV/m	31.40 33.38 37.03 Test channe Antenna dB	9.04 10.56 12.16	35.36 34.67 33.31	48.36 46.73 48.16	74.00 74.00 74.00 Polarity	-25.64 -27.27 -25.84	4 Peak 7 Peak 4 Peak Horizontal	
Туре	3 4 Mark	4785.08 6396.13 7981.72 802.11b Frequency	43.28 37.46 32.28 Reading	31.40 33.38 37.03 Test channe	9.04 10.56 12.16	35.36 34.67 33.31 2H11 Preamp dB	48.36 46.73 48.16 Leve dBuV/r	74.00 74.00 74.00 Polarity 1 Limit m dBuV/m	-25.64 -27.27 -25.84 Over limit	4 Peak 7 Peak 4 Peak Horizontal • Remark • Peak	
Туре	3 4 Mark 1	4785.08 6396.13 7981.72 802.11b Frequency MHz 3168.08	43.28 37.46 32.28 Reading dBuV/m 49.88	31.40 33.38 37.03 Test channe Antenna dB 28.96	9.04 10.56 12.16 Cable dB 7.04	35.36 34.67 33.31 CH11 Preamp dB 37.12	48.36 46.73 48.16 Leve dBuV/r 48.76	74.00 74.00 74.00 Polarity 1 Limit m dBuV/m 74.00	-25.64 -27.27 -25.84 Over limit -25.24	4 Peak 7 Peak 4 Peak Horizontal • Remark • Peak 2 Peak	
Туре	3 4 Mark 1 2	4785.08 6396.13 7981.72 802.11b Frequency MHz 3168.08 4772.91	43.28 37.46 32.28 Reading dBuV/m 49.88 40.89	31.40 33.38 37.03 Test channe Antenna dB 28.96 31.40	9.04 10.56 12.16 Cable dB 7.04 9.10	35.36 34.67 33.31 CH11 Preamp dB 37.12 35.41	48.36 46.73 48.16 Leve dBuV/r 48.76 45.98	74.00 74.00 74.00 Polarity 1 Limit m dBuV/m 74.00 74.00	-25.64 -27.23 -25.84 Over limit -25.24 -28.02	4 Peak 7 Peak 4 Peak Horizontal • Remark • Peak 2 Peak 7 Peak	
Туре	3 4 Mark 1 2 3	4785.08 6396.13 7981.72 802.11b Frequency MHz 3168.08 4772.91 6331.33	43.28 37.46 32.28 Reading dBuV/m 49.88 40.89 39.08	31.40 33.38 37.03 Test channe dB 28.96 31.40 33.06	9.04 10.56 12.16 Cable dB 7.04 9.10 10.48 12.16	35.36 34.67 33.31 CH11 Preamp dB 37.12 35.41 34.59	48.36 46.73 48.16 Leve dBuV/r 48.76 45.98 48.03	74.00 74.00 74.00 Polarity 1 Limit m dBuV/m 74.00 74.00 74.00	-25.64 -27.22 -25.84 Over limit -25.24 -28.02 -25.97 -25.69	4 Peak 7 Peak 4 Peak Horizontal • Remark • Peak 2 Peak 7 Peak	
	3 4 Mark 1 2 3	4785.08 6396.13 7981.72 802.11b Frequency MHz 3168.08 4772.91 6331.33 7981.72 802.11b Frequency	43.28 37.46 32.28 Reading dBuV/m 49.88 40.89 39.08 32.43 Reading	31.40 33.38 37.03 Test channe dB 28.96 31.40 33.06 37.03 Test channe	9.04 10.56 12.16 Cable dB 7.04 9.10 10.48 12.16 I. C Cable	35.36 34.67 33.31 CH11 Preamp dB 37.12 35.41 34.59 33.31 CH11 Preamp	48.36 46.73 48.16 Leve dBuV/r 48.76 45.98 48.03 48.31 Leve	74.00 74.00 74.00 Polarity 1 Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00	-25.64 -27.22 -25.84 Over limit -25.24 -28.02 -25.97 -25.69 Over	4 Peak 7 Peak 4 Peak 4 Peak 4 Peak 6 Peak 7 Peak 7 Peak 7 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak	
	3 4 Mark 1 2 3 4 Mark	4785.08 6396.13 7981.72 802.11b Frequency MHz 3168.08 4772.91 6331.33 7981.72 802.11b Frequency MHz	43.28 37.46 32.28 Reading dBuV/m 49.88 40.89 39.08 32.43	31.40 33.38 37.03 Test channe dB 28.96 31.40 33.06 37.03 Test channe g Antenna dB	9.04 10.56 12.16 Cable dB 7.04 9.10 10.48 12.16 I. C Cable dB	35.36 34.67 33.31 2H11 Preamp dB 37.12 35.41 34.59 33.31 2H11 Preamp dB	48.36 46.73 48.16 Leve dBuV/r 48.76 45.98 48.03 48.31 Leve dBuV/r	74.00 74.00 74.00 Polarity 1 Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00	-25.64 -27.22 -25.84 Over limit -25.24 -28.02 -25.97 -25.69 Over limit	4 Peak 7 Peak 4 Peak 4 Peak 4 Peak 6 Peak 7 Peak 7 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak	
	3 4 Mark 1 2 3 4	4785.08 6396.13 7981.72 802.11b Frequency MHz 3168.08 4772.91 6331.33 7981.72 802.11b Frequency	43.28 37.46 32.28 Reading dBuV/m 49.88 40.89 39.08 32.43 Reading dBuV/m	31.40 33.38 37.03 Test channe dB 28.96 31.40 33.06 37.03 Test channe	9.04 10.56 12.16 Cable dB 7.04 9.10 10.48 12.16 I. C Cable	35.36 34.67 33.31 CH11 Preamp dB 37.12 35.41 34.59 33.31 CH11 Preamp	48.36 46.73 48.16 Leve dBuV/r 48.76 45.98 48.03 48.31 Leve	74.00 74.00 74.00 Polarity 1 Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00	-25.64 -27.22 -25.84 Over limit -25.24 -28.02 -25.97 -25.69 Over	4 Peak 7 Peak 4 Peak 4 Peak 4 Peak 7 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak	
	3 4 Mark 1 2 3 4 Mark 1	4785.08 6396.13 7981.72 802.11b Frequency MHz 3168.08 4772.91 6331.33 7981.72 802.11b Frequency MHz 3192.37	43.28 37.46 32.28 Reading dBuV/m 49.88 40.89 39.08 32.43 Reading dBuV/m 50.52	31.40 33.38 37.03 Test channe dB 28.96 31.40 33.06 37.03 Test channe g Antenna dB 28.92	9.04 10.56 12.16 Cable dB 7.04 9.10 10.48 12.16 I. C Cable dB 7.04	35.36 34.67 33.31 CH11 Preamp dB 37.12 35.41 34.59 33.31 CH11 Preamp dB 37.01	48.36 46.73 48.16 Leve dBuV/r 48.76 45.98 48.03 48.31 Leve dBuV/r 49.47	74.00 74.00 74.00 Polarity 1 Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	-25.64 -27.22 -25.84 Over limit -25.24 -28.02 -25.97 -25.69 Over limit -24.53	4 Peak 7 Peak 4 Peak Horizontal 7 Remark 9 Peak 9 Peak 9 Peak 9 Peak 9 Vertical 1 Remark 1 Peak 9 Peak 9 Peak	

Туре		802.11g		Test channe	. 	CH01		Polarity		Horizontal	
Ma	ark	Frequency MHz	Readin dBuV/	0	Cabl dB	e Preamp dB	Leve dBuV/		Ove limi		
	1	3184.25	50.67	28.93	7.04	37.05	49.59	74.00	-24.4	1 Peak	
	2	4748.67	45.58	31.40	9.22		50.68	74.00	-23.3		
	3	6347.47	41.24	33.09	10.50		50.22	74.00	-23.7		
	4	7981.72	33.72	37.03	12.16	33.31	49.60	74.00	-24.4	0 Peak	
Туре		802.11g		Test channe	:I	CH01		Polarity		Vertical	
Ma	ark	Frequency MHz	Reading dBuV/m		Cable dB	e Preamp dB	Leve dBuV/r		Over limit		
	1	3168.08	49.86	28.96	7.04	37.12	48.74	74.00	-25.26		
	2	4983.99	44.58	31.77	9.30	35.22	50.43	74.00	-23.57	7 Peak	
	3	6363.65	40.70	33.18	10.52	34.63	49.77	74.00	-24.23	8 Peak	
	4	7941.19	34.57	36.88	12.03	33.32	50.16	74.00	-23.84	4 Peak	
Туре		802.11g		Test channe		CH06		Polarity		Horizontal	
Ma	ark	Frequency	Reading	g Antenna	Cable	Preamp	Leve]	Limit	Over	Remark	
	unk	MHz	dBuV/n		dB	dB	dBuV/n		limit		
	1	3192.37	50.61	28.92	7.04	37.01	49.56	74.00	-24.44		
	2	4797.27	44.63	31.40	8.98	35.32	49.69	74.00	-24.31		
	3	6396.13	38.35	33.38	10.56	34.67	47.62	74.00	-26.38		
	4	7961.43	33.86	36.95	12.09	33.32	49.58	74.00	-24.42		
Туре		802.11g		Test channe		CH06		Polarity		Vertical	
Ma	ark	Frequency	Readin	g Antenna	Cabl	e Preamp	Leve	l Limit	Over	r Remark	
		MHz	dBuV/		dB	dB	dBuV/		limit		
	1	3200.50	50.84	28.90	7.04	36.98	49.80	74.00	-24.20	0 Peak	
	2	4983.99	44.52	31.77	9.30	35.22	50.37	74.00	-23.6	3 Peak	
	3	6992.14	37.11	35.35	11.14	34.06	49.54	74.00	-24.4	6 Peak	
	4	7981.72	34.52	37.03	12.16	33.31	50.40	74.00	-23.60	0 Peak	
Туре		802.11g		Test channe		CH11		Polarity		Horizontal	
M	lark	Frequency	Readin		Cabl				Over		
		MHz	dBuV/		dB	dB	dBuV/		limi		
	1	3200.50	50.12	28.90	7.04		49.08	74.00	-24.9		
	2	4772.91	45.24	31.40	9.10		50.33	74.00	-23.6		
							50.01	74.00	-23.99	9 Peak	
	3	6347.47	41.03	33.09	10.50						
				33.09 37.10	10.50 12.22		49.68	74.00	-24.3		
Туре	3	6347.47	41.03		12.22						
	3	6347.47 8002.06 802.11g Frequency	41.03 33.67 Reading	37.10 Test channe g Antenna	12.22 Cable	33.31 CH11 e Preamp	49.68 Leve	74.00 Polarity 1 Limit	-24.32	2 Peak Vertical r Remark	
	3 4 ark	6347.47 8002.06 802.11g Frequency MHz	41.03 33.67 Reading dBuV/r	37.10 Test channe g Antenna m dB	12.22 Cable dB	33.31 CH11 Preamp dB	49.68 Leve dBuV/r	74.00 Polarity 1 Limit m dBuV/m	-24.32 Over limit	2 Peak Vertical r Remark	
	3 4 ark 1	6347.47 8002.06 802.11g Frequency MHz 3184.25	41.03 33.67 Reading dBuV/r 50.36	37.10 Test channe g Antenna dB 28.93	12.22 Cable dB 7.04	33.31 CH11 e Preamp dB 37.05	49.68 Leve dBuV/ 49.28	74.00 Polarity l Limit m dBuV/m 74.00	-24.32 Over limit -24.72	2 Peak Vertical r Remark t 2 Peak	
	3 4 ark 1 2	6347.47 8002.06 802.11g Frequency MHz 3184.25 4760.78	41.03 33.67 Reading dBuV/r 50.36 44.94	37.10 Test channe g Antenna dB 28.93 31.40	12.22 Cable dB 7.04 9.16	33.31 CH11 e Preamp dB 37.05 35.47	49.68 Leve dBuV/ 49.28 50.03	74.00 Polarity 1 Limit m dBuV/m 74.00 74.00	-24.3 Over limit -24.72 -23.97	2 Peak Vertical r Remark t 2 Peak 7 Peak	
	3 4 ark 1	6347.47 8002.06 802.11g Frequency MHz 3184.25	41.03 33.67 Reading dBuV/r 50.36	37.10 Test channe g Antenna dB 28.93	12.22 Cable dB 7.04	33.31 CH11 e Preamp dB 37.05 35.47	49.68 Leve dBuV/ 49.28	74.00 Polarity l Limit m dBuV/m 74.00	-24.32 Over limit -24.72	2 Peak Vertical r Remark t 2 Peak 7 Peak 4 Peak	

Туре		802.11n(H	IT20)	Test channe	el (CH01		Polarity		Horizontal	
	Mark	Frequency MHz	Readin dBuV/		Cable dB	Preamp dB	Leve dBuV/r		Over limit		
	1	3168.08	50.07	28.96	7.04	37.12	48.95	74.00	-25.05	6 Peak	
	2	4785.08	45.10	31.40	9.04	35.36	50.18	74.00	-23.82		
	3	6363.65	39.72	33.18	10.52	34.63	48.79	74.00	-25.21		
	4	7921.00	34.63	36.84	11.96	33.33	50.10	74.00	-23.90) Peak	
Туре		802.11n(H	IT20)	Test channe	el (CH01		Polarity		Vertical	
	Mark	Frequency MHz	Readin dBuV/		Cable dB	Preamp dB	Leve dBuV/r		Over limit		
	1	3184.25	49.76	28.93	7.04	37.05	48.68	74.00	-25.32	Peak	
	2	4785.08	44.37	31.40	9.04	35.36	49.45	74.00	-24.55	Peak	
	3	6396.13	40.01	33.38	10.56	34.67	49.28	74.00	-24.72		
	4	7921.00	34.40	36.84	11.96	33.33	49.87	74.00	-24.13	Peak	
Туре		802.11n(H	IT20)	Test channe	el (CH06		Polarity		Horizontal	
	Mark	Frequency MHz	Readin dBuV/	<u> </u>	Cable dB	Preamp dB	Leve dBuV/r		Over limit		
	1	3192.37	49.33	28.92	7.04	37.01	48.28	74.00	-25.72	2 Peak	
	2	4772.91	43.67	31.40	9.10	35.41	48.76	74.00	-25.24	4 Peak	
	3	6396.13	40.38	33.38	10.56	34.67	49.65	74.00	-24.35	5 Peak	
	4	7961.43	32.86	36.95	12.09	33.32	48.58	74.00	-25.42	2 Peak	
Туре		802.11n(H	IT20)	Test channe	el (CH06		Polarity		Vertical	
	Mark	Frequency	Readin	g Antenna	Cable	Preamp	Leve	l Limit	Over	r Remark	
		MHz	dBuV/	m dB	dB	dB	dBuV/	m dBuV/m	limit	t	
	1	3168.08	50.81	28.96	7.04	37.12	49.69	74.00	-24.31	1 Peak	
	2	4772.91	44.84	31.40	9.10	35,41	49.93	74.00	-24.07	7 Peak	
			44.04	51140	9.10	22141					
	3	6363.65	39.16	33.18	10.52	34.63	48.23	74.00	-25.77		
	3 4						48.23 49.89	74.00 74.00	-25.77 -24.11		
Туре		6363.65	39.16 34.42	33.18	10.52 11.96	34.63					
Туре		6363.65 7921.00	39.16 34.42	33.18 36.84 Test channe	10.52 11.96	34.63 33.33 CH11		74.00 Polarity		1 Peak Horizontal	
Туре	4	6363.65 7921.00 802.11n(H	39.16 34.42 HT20)	33.18 36.84 Test channe g Antenna	10.52 11.96	34.63 33.33 CH11	49.89	74.00 Polarity	-24.1	1 Peak Horizontal Remark	
Туре	4	6363.65 7921.00 802.11n(H	39.16 34.42 HT2O) Readin	33.18 36.84 Test channe g Antenna	10.52 11.96	34.63 33.33 CH11 Preamp	49.89 Level	74.00 Polarity	-24.11	1 Peak Horizontal Remark	
Туре	4 Mark 1 2	6363.65 7921.00 802.11n(H Frequency MHz 3184.25 4748.67	39.16 34.42 HT2O) Readin dBuV/ 50.14 45.63	33.18 36.84 Test channe g Antenna m dB 28.93 31.40	10.52 11.96 Cable dB 7.04 9.22	34.63 33.33 CH11 Preamp dB 37.05 35.52	49.89 Level dBuV/m 49.06 50.73	74.00 Polarity L Limit dBuV/m 74.00 74.00	-24.12 Over limit -24.94 -23.27	1 Peak Horizontal Remark Peak Peak	
Туре	4 Mark 1 2 3	6363.65 7921.00 802.11n(H Frequency MHz 3184.25 4748.67 6396.13	39.16 34.42 HT20) Readin dBuV/ 50.14 45.63 39.68	33.18 36.84 Test channe g Antenna m dB 28.93	10.52 11.96 cable dB 7.04	34.63 33.33 CH11 Preamp dB 37.05 35.52 34.67	49.89 Level dBuV/m 49.06	74.00 Polarity L Limit n dBuV/m 74.00 74.00 74.00	-24.12 Over limit -24.94 -23.27 -25.05	1 Peak Horizontal Remark Peak Peak Peak	
Туре	4 Mark 1 2	6363.65 7921.00 802.11n(H Frequency MHz 3184.25 4748.67	39.16 34.42 HT2O) Readin dBuV/ 50.14 45.63	33.18 36.84 Test channe g Antenna m dB 28.93 31.40	10.52 11.96 Cable dB 7.04 9.22	34.63 33.33 CH11 Preamp dB 37.05 35.52	49.89 Level dBuV/m 49.06 50.73	74.00 Polarity L Limit dBuV/m 74.00 74.00	-24.12 Over limit -24.94 -23.27	1 Peak Horizontal Remark Peak Peak Peak	
Туре	4 Mark 1 2 3	6363.65 7921.00 802.11n(H Frequency MHz 3184.25 4748.67 6396.13	39.16 34.42 HT20) Readin dBuV/ 50.14 45.63 39.68 33.98	33.18 36.84 Test channe g Antenna m dB 28.93 31.40 33.38	10.52 11.96 Cable dB 7.04 9.22 10.56 12.16	34.63 33.33 CH11 Preamp dB 37.05 35.52 34.67	49.89 Level dBuV/n 49.06 50.73 48.95	74.00 Polarity L Limit n dBuV/m 74.00 74.00 74.00	-24.12 Over limit -24.94 -23.27 -25.05	1 Peak Horizontal Remark Peak Peak Peak	
	4 Mark 1 2 3	6363.65 7921.00 802.11n(H Frequency MHz 3184.25 4748.67 6396.13 7981.72 802.11n(H Frequency	39.16 34.42 HT20) Readin dBuV/ 50.14 45.63 39.68 33.98 HT20) Readin	33.18 36.84 Test channe g Antenna m dB 28.93 31.40 33.38 37.03 Test channe g Antenna	10.52 11.96 Cable dB 7.04 9.22 10.56 12.16 Cable Cable	34.63 33.33 CH11 Preamp dB 37.05 35.52 34.67 33.31 CH11 Preamp	49.89 Level dBuV/m 49.06 50.73 48.95 49.86 Level	74.00 Polarity L Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity L Limit	-24.11 Over limit -24.94 -23.27 -25.05 -24.14 Over	l Peak Horizontal Remark Peak Peak Peak Peak Vertical	
	4 Mark 1 2 3 4 Mark	6363.65 7921.00 802.11n(H Frequency MHz 3184.25 4748.67 6396.13 7981.72 802.11n(H Frequency MHz	39.16 34.42 HT20) Readin dBuV/ 50.14 45.63 39.68 33.98 HT20) Readin dBuV/	33.18 36.84 Test channe g Antenna m dB 28.93 31.40 33.38 37.03 Test channe g Antenna m dB	10.52 11.96 Cable dB 7.04 9.22 10.56 12.16 Cable dB Cable	34.63 33.33 CH11 Preamp dB 37.05 35.52 34.67 33.31 CH11 Preamp dB	49.89 Level dBuV/m 49.06 50.73 48.95 49.86 Level dBuV/m	74.00 Polarity L Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Polarity L Limit dBuV/m	-24.11 Over limit -24.94 -23.27 -25.05 -24.14 Over limit	I Peak Horizontal Remark Peak Peak Peak Peak Vertical	
	4 Mark 1 2 3 4 Mark 1	6363.65 7921.00 802.11n(H Frequency MHz 3184.25 4748.67 6396.13 7981.72 802.11n(H Frequency MHz 3200.50	39.16 34.42 HT20) Readin dBuV/ 50.14 45.63 39.68 33.98 HT20) Readin dBuV/ 50.78	33.18 36.84 Test channe g Antenna m dB 28.93 31.40 33.38 37.03 Test channe g Antenna m dB 28.90	10.52 11.96 Cable dB 7.04 9.22 10.56 12.16 Cable dB 7.04	34.63 33.33 CH11 Preamp dB 37.05 35.52 34.67 33.31 CH11 Preamp dB 36.98	49.89 Level dBuV/m 49.06 50.73 48.95 49.86 Level dBuV/m 49.74	74.00 Polarity L Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity L Limit n dBuV/m 74.00	-24.11 Over limit -24.94 -23.27 -25.05 -24.14 Over limit -24.26	l Peak Horizontal Remark Peak Peak Peak Vertical Remark	
	4 Mark 1 2 3 4 Mark 1 2	6363.65 7921.00 802.11n(H Frequency MHz 3184.25 4748.67 6396.13 7981.72 802.11n(H Frequency MHz 3200.50 4772.91	39.16 34.42 HT20) Readin dBuV/ 50.14 45.63 39.68 33.98 HT20) Readin dBuV/ 50.78 45.18	33.18 36.84 Test channe g Antenna m dB 28.93 31.40 33.38 37.03 Test channe g Antenna m dB 28.90 31.40	10.52 11.96 Cable dB 7.04 9.22 10.56 12.16 Cable dB 7.04 9.10	34.63 33.33 CH11 Preamp dB 37.05 35.52 34.67 33.31 CH11 Preamp dB 36.98 35.41	49.89 Level dBuV/m 49.06 50.73 48.95 49.86 Level dBuV/n 49.74 50.27	74.00 Polarity L Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity L Limit n dBuV/m 74.00	-24.11 Over limit -24.94 -23.27 -25.05 -24.14 Over limit -24.26 -23.73	Peak Peak Peak Peak Peak Peak Vertical Remark	
	4 Mark 1 2 3 4 Mark 1	6363.65 7921.00 802.11n(H Frequency MHz 3184.25 4748.67 6396.13 7981.72 802.11n(H Frequency MHz 3200.50	39.16 34.42 HT20) Readin dBuV/ 50.14 45.63 39.68 33.98 HT20) Readin dBuV/ 50.78	33.18 36.84 Test channe g Antenna m dB 28.93 31.40 33.38 37.03 Test channe g Antenna m dB 28.90	10.52 11.96 Cable dB 7.04 9.22 10.56 12.16 Cable dB 7.04	34.63 33.33 CH11 Preamp dB 37.05 35.52 34.67 33.31 CH11 Preamp dB 36.98	49.89 Level dBuV/m 49.06 50.73 48.95 49.86 Level dBuV/m 49.74	74.00 Polarity L Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity L Limit n dBuV/m 74.00	-24.11 Over limit -24.94 -23.27 -25.05 -24.14 Over limit -24.26	l Peak Horizontal Remark Peak Peak Peak Vertical Remark	

Туре		802.11n(H	IT40)	Test channe	el C	CH03		Polarity		Horizontal	
	Mark	Frequency MHz	Readin dBuV/		Cable dB	Preamp dB	Level dBuV/n		Over limit		
	1	3168.08	51.01	28.96	7.04	37.12	49.89	74.00	-24.11	Peak	
	2	4772.91	43.98	31.40	9.10	35.41	49.07	74.00	-24.93	Peak	
	3	6363.65	39.94	33.18	10.52	34.63	49.01	74.00	-24.99	Peak	
	4	7961.43	34.95	36.95	12.09	33.32	50.67	74.00	-23.33	Peak	
Туре		802.11n(H	HT40)	Test channe	el C	CH03		Polarity		Vertical	
	Mark	Frequency MHz	Readin dBuV/		Cable dB	Preamp dB	b Leve dBuV/		Over limi		
	1	3168.08	50.01	28.96	7.04	37.12	48.89	74.00	-25.1		
	2	4772.91	42.98	31.40	9.10	35.41	48.07	74.00	-25.9	3 Peak	
	3	6363.65	38.94	33.18	10.52	34.63	48.01	74.00	-25.9		
	4	9809.40	32.44	39.58	13.91	36.19	49.74	74.00	-24.2	6 Peak	
Туре		802.11n(H	HT40)	Test channe	el C	CH06		Polarity		Horizontal	
	Mark	Frequency	Readin	g Antenna	Cable	Preamp			0ve	r Remark	
		MHz	dBuV/	m dB	dB	dB	dBuV/	m dBuV/m	limi	t	
	1	3184.25	50.06	28.93	7.04	37.05	48.98	74.00	-25.0	2 Peak	
	2	4760.78	44.26	31.40	9.16	35.47	49.35	74.00	-24.6	5 Peak	
	3	6396.13	41.03	33.38	10.56	34.67	50.30	74.00	-23.7	0 Peak	
	4	7981.72	34.07	37.03	12.16	33.31	49.95	74.00	-24.0	5 Peak	
Туре		802.11n(H	HT40)	Test channe	el C	CH06		Polarity		Vertical	
	Mark	Frequency	Readin	g Antenna	Cable	Preamp	Leve	l Limit	Ove	r Remark	
		MHz	dBuV/	m dB	dB	dB	dBuV/	m dBuV/m	limi	t	
	1	3200.50	51.03	28.90	7.04	36.98	49.99	74.00	-24.0	1 Peak	
	2	4797.27	44.53	31.40	8.98	35.32	49.59	74.00	-24.4	1 Peak	
	3	6363.65	39.13	33.18	10.52	34.63	48.20	74.00	-25.8	0 Peak	
	4	8063.40	33.46	37.20	12.19	33.32	49.53	74.00	-24.4	7 Peak	
Туре		802.11n(H	HT40)	Test channe	el (CH09		Polarity		Horizontal	
	Mark	Frequency	Readin	g Antenna	Cable	Preamp	Leve	l Limit	Over	- Remark	
		MHz	dBuV/	-	dB	dB	dBuV/		limit		
	1	2995.54	51.99	28.70	6.87	37.47	50.09	74.00	-23.91		
	2	4748.67	44.59	31.40	9.22	35.52	49.69	74.00	-24.31		
	3	6363.65	40.22	33.18	10.52	34.63	49.29	74.00	-24.71		
	4	7981.72	33.97	37.03	12.16	33.31	49.85	74.00	-24.15	5 Peak	
		802.11n(H	HT40)	Test channe	el C	CH09		Polarity		Vertical	
Туре		-	Readin	g Antenna	Cable	Preamp			Over limit		
Туре	Mark	Frequency			10						
Туре		MHz	dBuV/		dB	dB	dBuV/n				
Туре	1	MHz 3192.37	dBuV/ 50.47	28.92	7.04	37.01	49.42	74.00	-24.58	Peak	
Туре	1 2	MHz 3192.37 4748.67	dBuV/ 50.47 44.99	28.92 31.40	7.04 9.22	37.01 35.52	49.42 50.09	74.00 74.00	-24.58 -23.91	Peak Peak	
Туре	1	MHz 3192.37	dBuV/ 50.47	28.92	7.04	37.01	49.42	74.00	-24.58	Peak Peak Peak	

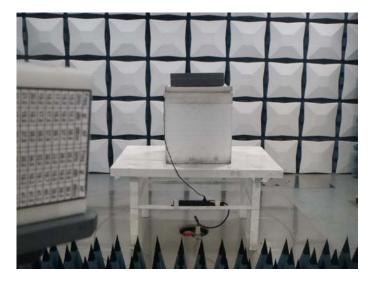
6. TEST SETUP PHOTOS

Radiated Emission









AC Conducted Emission



7. EXTERNAL AND INTERNAL PHOTOS

External Photos







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