TEST REPORT

For WiFi-2.4GHz Band

SENTRY CS LTD

eport No::	CHTEW23110047	Report Verification:

Project No.....: SHT2310045701EW

FCC ID.....:: 2BCINEC2

Applicant's name.....: Address....: 5 Derech Hashalom, Tel Aviv, Israel

Product Name **Eclipse II (Drone tracking system)**

Trade Mark:

Model No.: CVX-EC2-BU (Antenna model: CVX-EC2-D-ANT)

Listed Model(s)

Standard: FCC CFR Title 47 Part 15 Subpart C § 15.247

Date of receipt of test sample.....: Apr.06, 2023

Date of testing..... Apr.06, 2023-May.15, 2023

Date of issue....: Nov. 14, 2023

Result..... **PASS**

Compiled by

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Approved by

Supervised by

(Position+Printed name+Signature): RF Manager Xu Yang

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- FCC CFR Title 47 Part 15 Subpart C § 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- ANSI C63.10:2020: American National Standard for Testing Unlicensed Wireless Devices
- KDB 558074 D01 15.247 Meas Guidance v05r02: 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
- KDB662911 D01 Multiple Transmitter Output v02r01: 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	2023-11-14	Original

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2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result	Test Engineer
5.1	Antenna Requirement	15.203/15.247(c)	PASS	Xiaoqin Li
5.2	AC Conducted Emission	15.207	PASS	Quanhai Deng
5.3	Peak Output Power	15.247(b)(3)	PASS*	-
5.4	Power Spectral Density	15.247(e)	PASS*	-
5.5	6dB Bandwidth	15.247(a)(2)	PASS*	-
5.6	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS*	-
5.7	Radiated Band Edge Emission	15.205/15.209	PASS	Yifang Wang
5.8	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS	Yifang Wang

Note:

- The measurement uncertainty is not included in the test result.
- *: Refer to the module report which FCC ID is 2AG87NM-DB-3-R2.
- This device has installed the certified modular which model number is NM-DB-2U, so these conducted test data directly reference the modular data, The EUT has blocked 802.11b mode through software.

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3. **SUMMARY**

3.1. Client Information

Applicant:	SENTRY CS LTD
Address:	5 Derech Hashalom, Tel Aviv, Israel
Manufacturer:	SENTRY CS LTD
Address:	5 Derech Hashalom, Tel Aviv, Israel

3.2. Product Description

Main unit information:		
Product Name:	Eclipse II (Drone tracking system)	
Trade Mark:	-	
Model No.:	CVX-EC2-BU (Antenna model: CVX-EC2-D-ANT)	
Listed Model(s):	-	
Power supply:	AC 100-240V 50Hz/60Hz	
Test voltage:	AC 120V 60Hz	
Hardware version:	Eclipse II	
Software version:	Eclipse II	

3.3. Radio Specification Description

Support type:	☐ 802.11b	⊠ 802.11g	⊠ 802.11n
Support bandwidth:	⊠ 20MHz	⊠ 40MHz	
Modulation:	802.11g/n:	BPSK, QPSK, 16QAM, 64QAM	
Operation frequency	802.11g/n(HT20):	2412MHz~2462MHz	
Operation frequency:	802.11n(HT40)	2422MHz~2452MHz	
Channel number:	802.11g/n(HT20):	11	
Channel number.	802.11n(HT40)	7	
Channel separation:	5MHz		
Antenna technology:	SISO	⊠ MIMO	
Antenna Delivery:	☐ 1*TX+1*RX	☑ 2*TX+2*RX	☐ 3*TX+3*RX
Antenna type:	FRP Antenna (Model No.: AOA-2458-79AM)		
Antenna gain:	6.5dBi		

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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		
Contact information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn		
Type Accreditation Number		Accreditation Number	
Qualifications FCC 762235		762235	

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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.

802.11802.11g/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. Test mode

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.

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
802.11g	6Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0

4.3. Test sample information

Test item	HTW sample no.	
RF Radiated test items	YPHT23040066001	
EMI test items	YPHT23040066001	

Note:

RF Radiated test items: Radiated Band Edge Emission, Radiated Spurious Emission

EMI test items: AC Conducted Emission

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

4.5. Testing environmental condition

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

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	3.21dB
2	Padiated Pand Edge Emission	4.54dB for 30MHz-1GHz
2	Radiated Band Edge Emission	5.10dB for above 1GHz
2	Dedicted Couries Emission	4.54dB for 30MHz-1GHz
3	Radiated Spurious Emission	5.10dB for above 1GHz

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

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4.7. Equipment Used during the Test

•	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	2022/08/30	2023/08/29
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2022/08/29	2023/08/28
•	Pulse Limiter	R&S	HTWE0193	ESH3-Z2	101447	2022/08/29	2023/08/28
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2022/09/17	2023/09/16
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emi	ssion- Below 1G	Hz				
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	2023/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2022/08/30	2023/08/29
•	Loop Antenna	R&S	HTWE0546	HFH2-Z2E	101073	2021/05/25	2024/05/24
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0547	VULB9163	945	2022/05/23	2025/05/22
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2022/11/04	2023/11/03
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2023/02/24	2024/02/23
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2023/02/24	2024/02/23
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated em	ission- Above 10	GHz				
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	2023/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2022/08/25	2023/08/24
•	Horn Antenna	ETS	HTWE0548	3117	240120	2022/05/20	2025/05/19
•	Horn Antenna	STEATITE	HTWE0549	QMS-00880	25661	2022/05/20	2025/05/19
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2022/11/04	2023/11/03
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2023/02/27	2024/02/26
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2023/02/24	2024/02/23
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2023/02/24	2024/02/23
•	RF Connection Cable	HUBER+SUHNER	HTWE0119-05	6m 3GHz RG Serisa	N/A	2023/02/24	2024/02/23
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2023/02/24	2024/02/23
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

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5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

Requirement

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.

TEST RESULT	
⊠ Passed	☐ Not Applicable
The antenna type is	s FRP Antenna, please refer to Appendix A for antenna photos.

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5.2. AC Conducted Emission

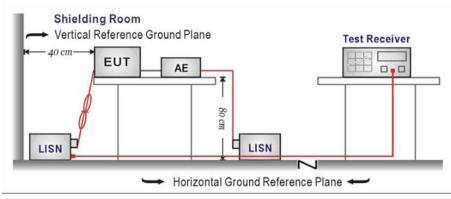
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fraguesey range (MHz)	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



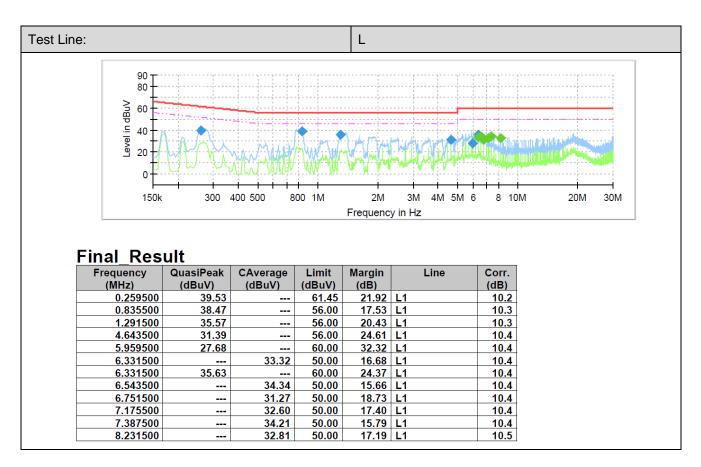
TEST PROCEDURE

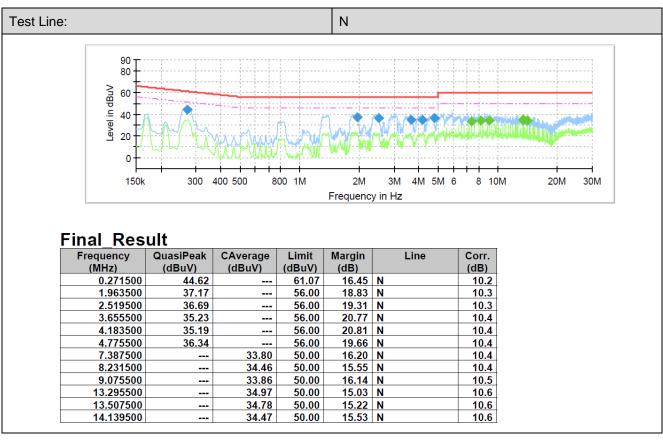
- 1. The EUT was setup according to ANSI C63.10 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from 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:

Refer to the clause 4.2

TEST RESULT





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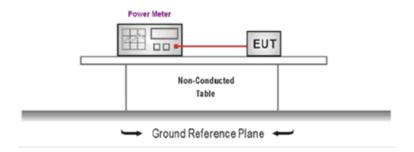
5.3. Peak Output Power

LIMIT

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

Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi 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 6 dBi.

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:

Refer to the clause 4.2

TEST RESULT

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:

For power measurements on IEEE 802.11 devices,

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

Array Gain = 0 dB (i.e., no array gain) for channel widths \geq 40 MHz for any N_{ANT} ;

Array Gain = 5 log (N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \ge 5$.

Directional gain = Gant + Array Gain = 6.5dBi, so limit of conducted output power is 30-((6.5-6) /3) =29.83dBm

The transmit power of ANT0+ANT1 in the module report all meet the present value requirements of FCC.

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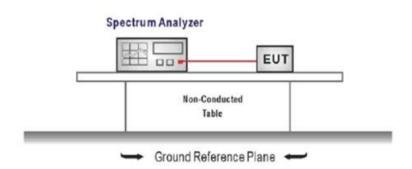
5.4. Power Spectral Density

LIMIT

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

- 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:

Refer to the clause 4.2

TEST RESULT

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01: For power spectral density (PSD) measurements on all devices,

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

Directional gain = Gant + Array Gain = 9.51dBi, so limit of power spectral density is 8-(9.51-6) =4.49

The Power Spectral Density of ANT0+ANT1 in the module report all meet the present value requirements of FCC.

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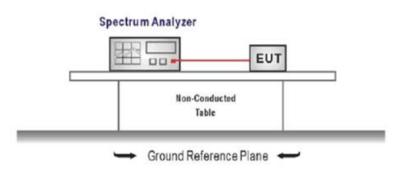
5.5. 6dB bandwidth

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



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 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 ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

- 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:

Refer to the clause 4.2

TEST RESULT

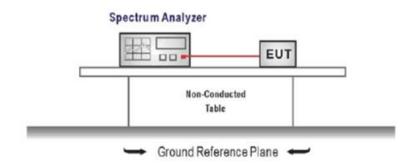
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5.6. Conducted Band edge and Spurious Emission

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.
- 2. 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 \geq 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:

Refer to the clause 4.2

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TEST	RESULT
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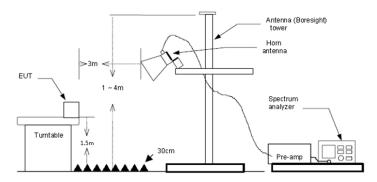
5.7. Radiated Band edge Emission

LIMIT

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

- 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. Thisis 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 5.7 duty cycle.

TEST MODE:

Refer to the clause 4.2

TEST RESULT

Note:

- 1) Level= Reading + Factor; Factor = 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).
- 4) Pre-scan all modulation mode and antenna. 802.11g/n in the report only displays the worst antenna information. The worst result is the simultaneous transmission of two antennas.

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Туре		802.1	1g	Test cl	hannel	CHO)1	Po	olarity		Horizontal
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	0ve	r Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	lim:	it
	1	2310.00	40.64	27.96	3.89	37.56	20.00	54.93	74.00	-19.0	97 Peak
	2	2389.79	47.75	27.72	3.99	37.45	20.00	62.01	74.00	-11.9	99 Peak
	3	2390.01	44.39	27.72	3.99	37.45	20.00	58.65	74.00	-15.	35 Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit 0)ver	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m 1	imit	
	1	2310.00	29.34	27.96	3.89	37.56	20.00	43.63	54.00 -1	0.37	Average
	2	2390.01	31.73	27.72	3.99	37.45	20.00	45.99	54.00 -	8.01	Average
Туре		802.1	1g	Test cl	hannel	СНО)1	Po	olarity		Vertical
Туре	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
Type		Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	limit	Remark
Туре	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit dBuV/m 74.00		Remark Peak
Туре	1	Frequency MHz 2310.00 2390.01 Frequency	Reading dBuV/m 40.18 42.19	Antenna dB 27.96 27.72	Cable dB 3.89 3.99	Preamp dB 37.56 37.45	Aux dB 20.00 20.00	Level dBuV/m 54.47 56.45 Level	Limit dBuV/m 74.00 - 74.00 -	limit -19.53 -17.55 Over	Remark Peak
Туре	1 2	Frequency MHz 2310.00 2390.01	Reading dBuV/m 40.18 42.19	Antenna dB 27.96 27.72	Cable dB 3.89 3.99	Preamp dB 37.56 37.45	Aux dB 20.00 20.00	Level dBuV/m 54.47 56.45	Limit dBuV/m 74.00 - 74.00 -	limit -19.53 -17.55	Remark Peak Peak
Туре	1 2	Frequency MHz 2310.00 2390.01 Frequency	Reading dBuV/m 40.18 42.19	Antenna dB 27.96 27.72	Cable dB 3.89 3.99	Preamp dB 37.56 37.45	Aux dB 20.00 20.00	Level dBuV/m 54.47 56.45 Level	Limit dBuV/m 74.00 - 74.00 - Limit dBuV/m	limit -19.53 -17.55 Over	Remark Peak Peak

Туре		802.1	1g	Test c	hannel	СН	11	P	olarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Ove dBuV/m lim	
	1	2483.49	44.80	27.43	4.03	37.26	20.00	59.00	74.00 -15.	00 Peak
	2	2500.00	40.79	27.40	4.04	37.26	20.00	54.97	74.00 -19.	03 Peak
ı	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1	2483.49	30.61	27.43	4.03	37.26	20.00	44.81	54.00 -9.19	Average
	2	2500.00	28.98	27.40	4.04	37.26	20.00	43.16	54.00 -10.84	Average
Туре	802.11g		1g	Test channel		CH11		Polarity		Vertical
1	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Ove	
	1	2483.49	43.85	27.43	4.03	37.26	20.00	58.05	74.00 -15.	95 Peak
	2	2500.00	39.82	27.40	4.04	37.26	20.00	54.00	74.00 -20.	00 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1	2483.49	32.65	27.43	4.03	37.26	20.00	46.85	54.00 -7.15	Average
	2	2500.00	29.04	27.40	4.04	37.26	20.00	43.22	54.00 -10.78	_

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Туре		802.1	1n(HT20)	Test ch	nannel	CHC)1	Р	olarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Ove dBuV/m lin	
	1	2310.00	40.68	27.96	3.89	37.56	20.00	54.97	74.00 -19.	.03 Peak
	2	2390.01	45.62	27.72	3.99	37.45	20.00	59.88	74.00 -14.	12 Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limi	t
	1	2310.00	29.47	27.96	3.89	37.56	20.00	43.70	5 54.00 -10.24	4 Average
	2	2390.01	33.99	27.72	3.99	37.45	20.00	48.2	5 54.00 -5.7	5 Average
Туре		802.1	1n(HT20)	Test ch	nannel	CHC)1	Р	olarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Ove dBuV/m lim	
	1	2310.00	40.17	27.96	3.89	37.56	20.00	54.46	74.00 -19.	54 Peak
	2	2390.01	44.24	27.72	3.99	37.45	20.00	58.50	74.00 -15.	50 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1	2310.00	29.42	27.96	3.89	37.56	20.00	43.71	54.00 -10.29) Average
	2	2390.01	31.70	27.72	3.99	37.45	20.00	45.96	5 54.00 -8.04	4 Average

Туре			802.1	1n(HT20)	Test cl	hannel	CH1	1	Po	larity		Horizontal
	Mark	Fred	uency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	0ver	Remark
		MHz		dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limi	t
	1	2483	.49	50.24	27.43	4.03	37.26	20.00	64.44	74.00	-9.5	6 Peak
	2	2500	.00	40.93	27.40	4.04	37.26	20.00	55.11	74.00	-18.8	9 Peak
	Mark	Freq	uency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	0ver	Remark
		MHz		dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2483	.49	33.45	27.43	4.03	37.26	20.00	47.65	54.00	-6.35	Average
	2	2500	.00	29.02	27.40	4.04	37.26	20.00	43.20	54.00	-10.80	Average
Туре			802.1	1n(HT20)	Test cl	hannel	CH1	1	Po	larity		Vertical
	Mark	Free	quency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHz		dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	t
	1	2483	3.49	45.04	27.43	4.03	37.26	20.00	59.24	74.00	-14.70	6 Peak
	2	2500	0.00	40.40	27.40	4.04	37.26	20.00	54.58	74.00	-19.42	2 Peak
	Mark	Freq	uency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	0ver	Remark
		MHz		dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2483	.49	31.20	27.43	4.03	37.26	20.00	45.40	54.00	-8.60	Average
	2	2500	.00	29.07	27.40	4.04	37.26	20.00	43.25	54.00	-10.75	Average

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Type		802.	11n(HT40)	Test c	hannel	CHO)3	P	olarity		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	41.14	31.62	3.92	42.24	20.00	54.44	74.00	-19.56	Peak
	2	2321.10	50.03	31.64	3.92	42.24	20.00	63.35	74.00	-10.65	Peak
	3	2389.99	52.99	32.02	3.97	42.21	20.00	66.77	74.00	-7.23	Peak
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	30.39	31.62	3.92	42.24	20.00	43.69	54.00	-10.31	Average
	2	2389.99	35.33	32.02	3.97	42.21	20.00	49.11	54.00	-4.89	Average

Туре		802.1	1n(HT40)	(40) Test channel		CHO	CH03 Pc			olarity		
1	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	42.01	31.62	3.92	42.24	20.00	55.31	74.00	-18.69) Peak	
	2	2338.94	50.27	31.68	3.94	42.23	20.00	63.66	74.00	-10.34	Peak	
	3	2389.99	43.31	32.02	3.97	42.21	20.00	57.09	74.00	-16.91	L Peak	
P	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	29.66	31.62	3.92	42.24	20.00	42.96	54.00	-11.04	Average	
	2	2389.99	31.93	32.02	3.97	42.21	20.00	45.71	54.00	-8.29	Average	

Гуре		802.1	1n(HT40)	Test c	hannel	CHO	09	P	olarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over	
	1	2483.50	54.23	32.70	4.04	42.14	20.00	68.83	74.00	-5.1	7 Peak
	2	2499.20	51.92	32.80	4.05	42.12	20.00	66.65	74.00	-7.3	5 Peak
	3	2500.00	44.75	32.80	4.05	42.12	20.00	59.48	74.00	-14.5	2 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	2482.17	36.21	32.69	4.04	42.14	20.00	50.80	54.00	-3.20	Average
	2	2500.00	33.78	32.80	4.05	42.12	20.00	48.51	54.00	-5.49	Average

Гуре	802.11n(HT40)			Test c	Test channel CH09					Polarity		
M	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	42.44	32.70	4.04	42.14	20.00	57.04	74.00	-16.96	Peak	
	2	2494.86	48.75	32.77	4.05	42.13	20.00	63.44	74.00	-10.56	Peak	
	3	2500.00	43.10	32.80	4.05	42.12	20.00	57.83	74.00	-16.17	Peak	
1	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	31.73	32.70	4.04	42.14	20.00	46.3	3 54.00	-7.67	Average	
	2	2500.00	29.77	32.80	4.05	42.12	20.00	44.5	9 54.00	-9.50	Average	

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5.8. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

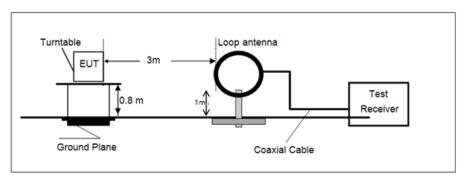
Frequency	Limit (dBuV/m)	Value	
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak	
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak	
1.705 MHz ~30 MHz	30 @30m	Quasi-peak	

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.

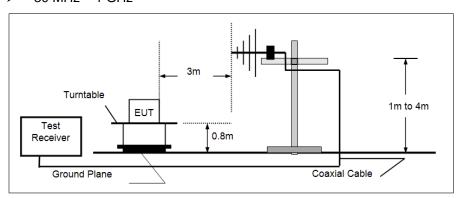
Frequency	Limit (dBuV/m @3m)	Value				
30MHz~88MHz	40.00	Quasi-peak				
88MHz~216MHz	43.50 Quasi-peak					
216MHz~960MHz	46.00	Quasi-peak				
960MHz~1GHz	54.00	Quasi-peak				
Above 1GHz	54.00	Average				
Above IGHZ	74.00	Peak				

TEST CONFIGURATION

▶ 9 kHz ~ 30 MHz

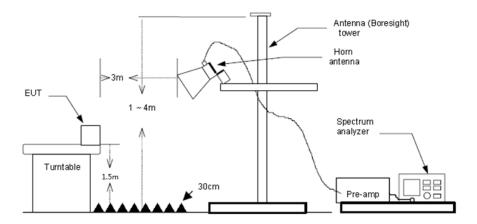


> 30 MHz ~ 1 GHz



Above 1 GHz

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TEST PROCEDURE

- 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.
- 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.

 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 5.7 duty cycle.

TEST MODE:

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
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

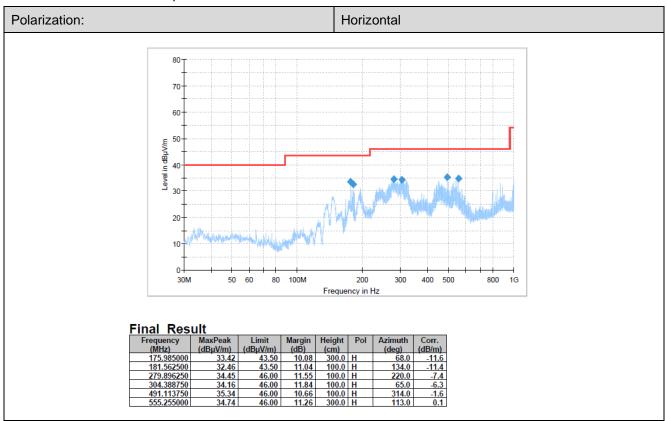
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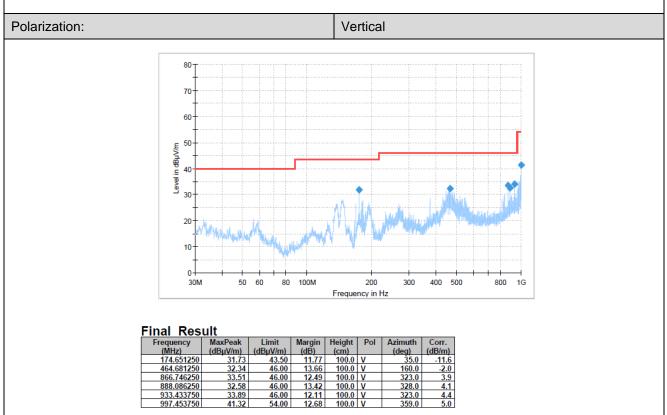
FOR 9 kHz ~ 30 MHz

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 802.11n(HT40) which it was worst case, so only show the worst case's data on this report.





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FOR 1 GHz ~ 25 GHz

The EUT was pre-scanned all modulation mode and antenna. 802.11g/n in the report only displays the worst antenna information. The worst result is the simultaneous transmission of two antennas.

Туре		802.11g		Test channe	el	CH01		Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	•	Cable dB	e Preamp dB	Level dBuV/m		Over limit	Remark
	1	1254.27	39.51	25.91	2.81	36.48	31.75	74.00	-42.25	Peak
	2	4821.76	39.13	31.40	5.74	35.24	41.03	74.00	-32.97	Peak
	3	7432.62	35.83	36.60	7.33	33.98	45.78	74.00	-28.22	Peak
	4	10888.51	34.97	40.57	9.10	36.76	47.88	74.00	-26.12	Peak
Туре		802.11g		Test channe	el	CH01		Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m		Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	1303.09	39.15	26.02	2.85	36.30	31.72	74.00	-42.28	Peak
	2	5099.49	37.94	32.20	5.91	35.48	40.57	74.00	-33.43	Peak
	3	7508.69	34.97	36.58	7.39	33.87	45.07	74.00	-28.93	Peak
	4	10860.83	34.66	40.48	9.09	36.78	47.45	74.00	-26.55	Peak
Туре		802.11g		Test channe	el	CH06		Polarity		Horizontal
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	0ver	Remark
		MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	1192.01	40.90	25.57	2.77	36.65	32.59	74.00	-41.41	Peak
	2	3672.11	41.25	29.40	4.95	37.03	38.57	74.00	-35.43	Peak
	3	5099.49	37.35	32.20	5.91	35.48	39.98	74.00	-34.02	Peak
	4	8063.40	35.17	37.20	7.65	33.32	46.70	74.00	-27.30	Peak
Туре		802.11g		Test channe	el	CH06		Polarity		Vertical
Туре	Mark	802.11g Frequency MHz	Reading dBuV/m	Antenna	Cable dB		Level dBuV/m	Polarity Limit dBuV/m	Over limit	Vertical Remark
Type	Mark 1	Frequency	_	Antenna	Cable	Preamp		Limit		
Type		Frequency MHz	dBuV/m	Antenna dB	Cable dB	Preamp dB	dBuV/m	Limit dBuV/m	limit	Remark
Type	1	Frequency MHz 1251.08	dBuV/m 40.21	Antenna dB 25.90	Cable dB 2.81	Preamp dB 36.50	dBuV/m 32.42	Limit dBuV/m 74.00	limit -41.58	Remark Peak
Туре	1 2	Frequency MHz 1251.08 5112.49	dBuV/m 40.21 37.10	Antenna dB 25.90 32.15	Cable dB 2.81 5.92	Preamp dB 36.50 35.47	dBuV/m 32.42 39.70	Limit dBuV/m 74.00 74.00	limit -41.58 -34.30	Remark Peak Peak
Туре	1 2 3	Frequency MHz 1251.08 5112.49 8125.22	dBuV/m 40.21 37.10 34.48	Antenna dB 25.90 32.15 37.10	Cable dB 2.81 5.92 7.69 9.10	Preamp dB 36.50 35.47 33.36	dBuV/m 32.42 39.70 45.91	Limit dBuV/m 74.00 74.00 74.00	limit -41.58 -34.30 -28.09	Remark Peak Peak Peak
	1 2 3	Frequency MHz 1251.08 5112.49 8125.22 10888.51	dBuV/m 40.21 37.10 34.48	Antenna dB 25.90 32.15 37.10 40.57	Cable dB 2.81 5.92 7.69 9.10	Preamp dB 36.50 35.47 33.36 36.76	dBuV/m 32.42 39.70 45.91 48.83	Limit dBuV/m 74.00 74.00 74.00 74.00	limit -41.58 -34.30 -28.09	Remark Peak Peak Peak Peak
	1 2 3 4	Frequency MHz 1251.08 5112.49 8125.22 10888.51	dBuV/m 40.21 37.10 34.48 35.92	Antenna dB 25.90 32.15 37.10 40.57 Test channe	Cable dB 2.81 5.92 7.69 9.10	Preamp dB 36.50 35.47 33.36 36.76	dBuV/m 32.42 39.70 45.91 48.83	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity	limit -41.58 -34.30 -28.09 -25.17	Remark Peak Peak Peak Peak Horizontal
	1 2 3 4 Mark	Frequency MHz 1251.08 5112.49 8125.22 10888.51 802.11g	dBuV/m 40.21 37.10 34.48 35.92	Antenna dB 25.90 32.15 37.10 40.57 Test channe	Cable dB 2.81 5.92 7.69 9.10	Preamp dB 36.50 35.47 33.36 36.76 CH11	dBuV/m 32.42 39.70 45.91 48.83	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity	limit -41.58 -34.30 -28.09 -25.17	Remark Peak Peak Peak Peak Horizontal
	1 2 3 4 Mark	Frequency MHz 1251.08 5112.49 8125.22 10888.51 802.11g Frequency MHz	dBuV/m 40.21 37.10 34.48 35.92 Reading dBuV/m	Antenna dB 25.90 32.15 37.10 40.57 Test channo dB	Cable dB 2.81 5.92 7.69 9.10 el	Preamp dB 36.50 35.47 33.36 36.76 CH11	dBuV/m 32.42 39.70 45.91 48.83 Level dBuV/m 32.06 41.04	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity	limit -41.58 -34.30 -28.09 -25.17 Over limit	Remark Peak Peak Peak Peak Horizontal
	1 2 3 4 Mark 1 2 3	Frequency MHz 1251.08 5112.49 8125.22 10888.51 802.11g Frequency MHz 1207.28 4920.96 7489.60	dBuV/m 40.21 37.10 34.48 35.92 Reading dBuV/m 40.28 38.96 35.07	Antenna dB 25.90 32.15 37.10 40.57 Test channe Antenna dB 25.64 31.44 36.60	Cable dB 2.81 5.92 7.69 9.10 el Cable dB 2.78 5.85 7.37	Preamp dB 36.50 35.47 33.36 36.76 CH11 Preamp dB 36.64 35.21 33.94	dBuV/m 32.42 39.70 45.91 48.83 Level dBuV/m 32.06 41.04 45.10	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00	limit -41.58 -34.30 -28.09 -25.17 Over limit -41.94 -32.96 -28.90	Remark Peak Peak Peak Horizontal Remark Peak Peak Peak
	1 2 3 4 Mark	Frequency MHz 1251.08 5112.49 8125.22 10888.51 802.11g Frequency MHz 1207.28 4920.96	dBuV/m 40.21 37.10 34.48 35.92 Reading dBuV/m 40.28 38.96	Antenna dB 25.90 32.15 37.10 40.57 Test channo dB 25.64 31.44	Cable dB 2.81 5.92 7.69 9.10 el Cable dB 2.78 5.85	Preamp dB 36.50 35.47 33.36 36.76 CH11 Preamp dB 36.64 35.21	dBuV/m 32.42 39.70 45.91 48.83 Level dBuV/m 32.06 41.04	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00	limit -41.58 -34.30 -28.09 -25.17 Over limit -41.94 -32.96	Remark Peak Peak Peak Horizontal Remark Peak Peak
	1 2 3 4 Mark 1 2 3	Frequency MHz 1251.08 5112.49 8125.22 10888.51 802.11g Frequency MHz 1207.28 4920.96 7489.60	dBuV/m 40.21 37.10 34.48 35.92 Reading dBuV/m 40.28 38.96 35.07	Antenna dB 25.90 32.15 37.10 40.57 Test channe Antenna dB 25.64 31.44 36.60	Cable dB 2.81 5.92 7.69 9.10 el Cable dB 2.78 5.85 7.37 8.38	Preamp dB 36.50 35.47 33.36 36.76 CH11 Preamp dB 36.64 35.21 33.94	dBuV/m 32.42 39.70 45.91 48.83 Level dBuV/m 32.06 41.04 45.10	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00	limit -41.58 -34.30 -28.09 -25.17 Over limit -41.94 -32.96 -28.90	Remark Peak Peak Peak Horizontal Remark Peak Peak Peak
Туре	1 2 3 4 Mark 1 2 3	Frequency MHz 1251.08 5112.49 8125.22 10888.51 802.11g Frequency MHz 1207.28 4920.96 7489.60 9228.06 802.11g Frequency	dBuV/m 40.21 37.10 34.48 35.92 Reading dBuV/m 40.28 38.96 35.07 36.71	Antenna dB 25.90 32.15 37.10 40.57 Test channe Antenna dB 25.64 31.44 36.60 38.91 Test channe	Cable dB 2.81 5.92 7.69 9.10 el Cable dB 2.78 5.85 7.37 8.38 el	Preamp dB 36.50 35.47 33.36 36.76 CH11 Preamp dB 36.64 35.21 33.94 36.04 CH11 Preamp	dBuV/m 32.42 39.70 45.91 48.83 Level dBuV/m 32.06 41.04 45.10 47.96	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit	limit -41.58 -34.30 -28.09 -25.17 Over limit -41.94 -32.96 -28.90 -26.04	Remark Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1251.08 5112.49 8125.22 10888.51 802.11g Frequency MHz 1207.28 4920.96 7489.60 9228.06 802.11g Frequency MHz	dBuV/m 40.21 37.10 34.48 35.92 Reading dBuV/m 40.28 38.96 35.07 36.71	Antenna dB 25.90 32.15 37.10 40.57 Test channe dB 25.64 31.44 36.60 38.91 Test channe Antenna dB	Cable dB 2.81 5.92 7.69 9.10 el Cable dB 2.78 5.85 7.37 8.38 el Cable dB	Preamp dB 36.50 35.47 33.36 36.76 CH11 Preamp dB 36.64 35.21 33.94 36.04 CH11 Preamp dB	dBuV/m 32.42 39.70 45.91 48.83 Level dBuV/m 32.06 41.04 45.10 47.96	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m	limit -41.58 -34.30 -28.09 -25.17 Over limit -41.94 -32.96 -28.90 -26.04	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pe
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1251.08 5112.49 8125.22 10888.51 802.11g Frequency MHz 1207.28 4920.96 7489.60 9228.06 802.11g Frequency MHz 1207.28	dBuV/m 40.21 37.10 34.48 35.92 Reading dBuV/m 40.28 38.96 35.07 36.71 Reading dBuV/m 39.08	Antenna dB 25.90 32.15 37.10 40.57 Test channe Antenna dB 25.64 31.44 36.60 38.91 Test channe Antenna dB 25.99	Cable dB 2.81 5.92 7.69 9.10 el Cable dB 2.78 5.85 7.37 8.38 el Cable dB 2.84	Preamp dB 36.50 35.47 33.36 36.76 CH11 Preamp dB 36.64 35.21 33.94 36.04 CH11 Preamp dB 36.32	dBuV/m 32.42 39.70 45.91 48.83 Level dBuV/m 32.06 41.04 45.10 47.96 Level dBuV/m 31.59	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 Folarity	1imit -41.58 -34.30 -28.09 -25.17 Over limit -41.94 -32.96 -28.90 -26.04 Over limit -42.41	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pe
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1251.08 5112.49 8125.22 10888.51 802.11g Frequency MHz 1207.28 4920.96 7489.60 9228.06 802.11g Frequency MHz	dBuV/m 40.21 37.10 34.48 35.92 Reading dBuV/m 40.28 38.96 35.07 36.71 Reading dBuV/m 39.08 41.11	Antenna dB 25.90 32.15 37.10 40.57 Test channe dB 25.64 31.44 36.60 38.91 Test channe Antenna dB	Cable dB 2.81 5.92 7.69 9.10 el Cable dB 2.78 5.85 7.37 8.38 el Cable dB	Preamp dB 36.50 35.47 33.36 36.76 CH11 Preamp dB 36.64 35.21 33.94 36.04 CH11 Preamp dB	dBuV/m 32.42 39.70 45.91 48.83 Level dBuV/m 32.06 41.04 45.10 47.96	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m	limit -41.58 -34.30 -28.09 -25.17 Over limit -41.94 -32.96 -28.90 -26.04	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pe
Туре	1 2 3 4 Mark 1 2 3 4 Mark 1 2 2 3 4 Mark 1 2 2 3 4 Mark 1 2 2 Mark	Frequency MHz 1251.08 5112.49 8125.22 10888.51 802.11g Frequency MHz 1207.28 4920.96 7489.60 9228.06 802.11g Frequency MHz 1293.17 3168.08	dBuV/m 40.21 37.10 34.48 35.92 Reading dBuV/m 40.28 38.96 35.07 36.71 Reading dBuV/m 39.08	Antenna dB 25.90 32.15 37.10 40.57 Test channe (Antenna dB 25.64 31.44 36.60 38.91 Test channe Antenna dB 25.99 28.96	Cable dB 2.81 5.92 7.69 9.10 el Cable dB 2.78 5.85 7.37 8.38 el Cable dB 2.84 4.63	Preamp dB 36.50 35.47 33.36 36.76 CH11 Preamp dB 36.64 35.21 33.94 36.04 CH11 Preamp dB 36.32 37.12	dBuV/m 32.42 39.70 45.91 48.83 Level dBuV/m 32.06 41.04 45.10 47.96 Level dBuV/m 31.59 37.58	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity	1imit -41.58 -34.30 -28.09 -25.17 Over limit -41.94 -32.96 -28.90 -26.04 Over limit -42.41 -36.42	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pe

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Туре		802.11n(HT20)	Test channe	el	CH01		Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	dB	Cable dB	e Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	1260.67	39.56	25.92	2.82	36.46	31.84	74.00	-42.16	Peak
	2	5112.49	38.22	32.15	5.92	35.47	40.82	74.00	-33.18	Peak
	3	7245.81	35.70	36.41	7.26	34.06	45.31	74.00	-28.69	Peak
	4	10723.47	35.29	40.15	9.05	36.90	47.59	74.00	-26.41	Peak
Туре		802.11n(HT20)	Test channe	el	CH01		Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	1329.89	38.74	26.18	2.90	36.37	31.45	74.00	-42.55	Peak
	2	5125.52	37.33	32.10	5.94	35.46	39.91	74.00	-34.09	Peak
	3	7432.62	35.45	36.60	7.33	33.98	45.40	74.00	-28.60	Peak
	4	11486.41	34.52	40.86	9.45	36.38	48.45	74.00	-25.55	Peak
Туре		802.11n(HT20)	Test channe	el	CH06		Polarity		Horizontal
	Mark	Frequency	Reading	Antenna	Cable		Level	Limit	0ver	Remark
		MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	1254.27	39.79	25.91	2.81	36.48	32.03	74.00	-41.97	Peak
	2	4883.52	39.87	31.40	5.84	35.18	41.93	74.00	-32.07	Peak
	3	7981.72	35.75	37.03	7.60	33.31	47.07	74.00	-26.93	Peak
	4	9784.47	35.91	39.60	8.44	36.17	47.78	74.00	-26.22	Peak
Туре		802.11n(HT20)	Test channe	el	CH06		Polarity		Vertical
	Mark	Frequency	Reading	Antenna	Cable			Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	1228.98	39.33	25.78	2.80	36.58	31.33	74.00	-42.67	Peak
	2	4034.78	40.33	29.97	5.26	36.30	39.26	74.00	-34.74	Peak
	3	5762.24	36.44	31.92	6.63	34.86	40.13	74.00	-33.87	Peak
	4	11515.68	34.37	40.85	9.47	36.37	48.32	74.00	-25.68	Peak
Туре		802.11n(HT20)	Test channe	el	CH11		Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	1263.88	39.00	25.93	2.82	36.44	31.31	74.00	-42.69	Peak
	2	5125.52	38.95	32.10	5.94	35.46	41.53	74.00	-32.47	Peak
	3	8042.90	35.37	37.19	7.64	33.31	46.89	74.00	-27.11	Peak
		0000 40	36.33	39.58	8.46	36.19	48.18	74.00	-25.82	Peak
	4	9809.40	50.55							
Туре	4	802.11n(-	Test channe	el	CH11	_	Polarity		Vertical
Туре	4 Mark	802.11n(HT20) Reading	Antenna	Cable	e Preamp		Limit	Over limit	Remark
Туре	Mark	802.11n(Frequency MHz	HT20) Reading dBuV/m	Antenna dB	Cable dB	e Preamp dB	dBuV/m	Limit dBuV/m	limit	Remark
Туре	Mark 1	802.11n(HT20) Reading dBuV/m 40.35	Antenna dB 25.56	Cable dB 2.77	e Preamp dB 36.66	dBuV/m 32.02	Limit dBuV/m 74.00	limit -41.98	Remark Peak
Type	Mark	802.11n(Frequency MHz 1188.98	HT20) Reading dBuV/m	Antenna dB	Cable dB	e Preamp dB 36.66 36.37	dBuV/m	Limit dBuV/m	limit	Remark Peak Peak

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Туре		802.11n(l	HT40)	Test channe	el	CH03		Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	ALBOY TO THE PROPERTY AND ADDRESS.	Cable dB	e Pream	np Level			
	1	2957.65	54.64	32.50	4.43	41.98	49.59	74.00		Peak
	2	4983.99	50.80	34.07	5.73	40.91	49.69	74.00	-24.31	Peak
	3	7489.60	49.75	36.00	7.28	40.97	52.06	74.00	-21.94	Peak
	4	10480.59	36.83	37.49	8.52	39.76	43.08	74.00	-30.92	Peak
Туре		802.11n(l	HT40)	Test channe	el	CH03		Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	3200.50	48.68	34.39	4.59	41.87	45.79	74.00	-28,21	Peak
	2	4983.99	50.76	34.07	5.73	40.91	49.65	74.00	-24.35	Peak
	3	7921.00	38.24	35.80	7.50	40.45	41.09	74.00	-32.91	Peak
	4	10400.86	36.52	37.44	8.51	39.50	42.97	74.00	-31.03	Peak
Туре		802.11n(l	HT40)	Test channe	el	CH06		Polarity		Horizontal
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	3192.37	41.80	34.19	4.58	41.88	38.69	74.00	-35.31	Peak
	2	5191.17	38.94	34.28	5.87	40.75	38.34	74.00	-35.66	Peak
	3	5910.80	38.77	34.94	6.31	40.01	40.01	74.00	-33.99	Peak
	4	11663.19	35.30	38.37	9.03	40.24	42.46	74.00	-31.54	Peak
Туре		802.11n(l	HT40)	Test channe	el	CH06		Polarity		Vertical
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	3700.26	41.33	33.30	5.01	41.72	37.92	74.00	-36.08	Peak
	2	4996.69	47.65	34.09	5.74	40.90	46.58	74.00	-27.42	Peak
	3	6445.16	38.33	35.45	6.80	40.76	39.82	74.00	-34.18	Peak
	4	10400.86	35.47	37.44	8.51	39.50	41.92	74.00	-32.08	Peak
Туре		802.11n(l	HT40)	Test channe	el	CH09		Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m		Cable dB	Pream dB	p Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	4014.29	40.91	33.43	5.15	41.55	37.94	74.00	-36.06	Peak
	2	4996.69	47.04	34.09	5.74	40.90	45.97	74.00	-28.03	Peak
	3	7451.57	38.36	36.00	7.26	40.98	40.64	74.00	-33.36	Peak
	4	10453.95	35.69	37.47	8.52	39.67	42.01	74.00	-31.99	Peak
Туре		802.11n(l	HT40)	Test channe	el	CH09		Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	3728.63	41.19	33.30	5.03	41.70	37.82	74.00	-36.18	Peak
	2	4996.69	47.79	34.09	5.74	40.90	46.72	74.00	-27.28	Peak
	3	7009.96	38.45	35.91	6.99	41.09	40.26	74.00	-33.74	Peak
	4	10534.09	35.62	37.52	8.53	39.93	41.74	74.00	-32.26	Peak
	-	10334.03	33.02	21.32	0.33	22.22		77.00	32.20	Lun

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6. TEST SETUP PHOTOS

Please refer to Appendix B

7. EXTERNAL AND INTERNAL PHOTOS

Please refer to Appendix C
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