





# TEST REPORT

For WiFi-2.4GHz Band

**Report No.** .....: **CHTW24100001** Report Verification:   
**Project No.**.....: **SHT2408069802W**  
**FCC ID**.....: **2BKUV-3A0800V17**  
**Applicant's name**.....: **OXON AG**  
**Address** .....: Waldeggsstrasse 47 CH-3097 Liebefeld Switzerland  
**Product Name**.....: **Oxocard Connect**  
**Trade Mark**.....:   
OXON  
**Model No.**.....: Oxocard Connect  
**Listed Model(s)**.....: Innovator Kit, Innovator Kit Make: Edition, Synthesizer-Combo, Pixelmatrix-Combo,  
**Standard**.....: **FCC CFR Title 47 Part 15 Subpart C § 15.247**  
**Date of receipt of test sample**.....: Sep. 02, 2024  
**Date of testing**.....: Sep. 03, 2024 - Sep. 26, 2024  
**Date of issue**.....: Oct. 08, 2024  
**Result**.....: **PASS**

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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

## 1.2. Report version

Revision No.	Date of issue	Description
N/A	2024-10-08	Original

## 2. TEST DESCRIPTION

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

Note:


- The measurement uncertainty is not included in the test result.
- \*1: No requirement on standard, only report these test data.

### 3. SUMMARY

#### 3.1. Client Information

Applicant:	OXON AG
Address:	Waldeggstrasse 47 CH-3097 Liebefeld Switzerland
Manufacturer:	OXON AG
Address:	Waldeggstrasse 47 CH-3097 Liebefeld Switzerland

#### 3.2. Product Description

Main unit information:	
Product Name:	Oxocard Connect
Trade Mark:	
Model No.:	Oxocard Connect
Listed Model(s):	Innovator Kit, Innovator Kit Make: Edition, Synthesizer-Combo, Pixelmatrix-Combo
Power supply:	DC 5V
Hardware version:	V1.7
Software version:	ESP V4.7

#### 3.3. Radio Specification Description

Support type:	<input checked="" type="checkbox"/> 802.11b	<input checked="" type="checkbox"/> 802.11g	<input checked="" type="checkbox"/> 802.11n
Support bandwidth:	<input checked="" type="checkbox"/> 20MHz	<input checked="" type="checkbox"/> 40MHz	
Modulation:	802.11b: 802.11g/n:	DBPSK, DQPSK, BPSK, QPSK BPSK, QPSK, 16QAM, 64QAM	
Operation frequency:	802.11b/g/n(HT20): 802.11n(HT40)	2412MHz~2462MHz 2422MHz~2452MHz	
Channel number:	802.11b/g/n(HT20): 802.11n(HT40)	11 7	
Channel separation:	5MHz		
Antenna technology:	<input checked="" type="checkbox"/> SISO	<input type="checkbox"/> MIMO	
Antenna type:	PCB Antenna		
Antenna gain:	3.71dBi		

### 3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China	
Contact information:	Phone: 86-755-26715499 E-mail: <a href="mailto:cs@szhtw.com.cn">cs@szhtw.com.cn</a> <a href="http://www.szhtw.com.cn">http://www.szhtw.com.cn</a>	
Qualifications	Type	Accreditation Number
	FCC Registration Number	762235
	FCC Designation Number	CN1181

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

### 4.2. Test mode

For RF test items

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

For Radiated spurious emissions

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

### 4.3. 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	YPHT24080698002
EMI test items	-

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

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

### 4.5. Testing environmental condition

Type	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	Peak Output Power	1.07
3	Power Spectral Density	1.07
4	6dB Bandwidth	0.002%
5	99% Occupied Bandwidth	0.002%
6	Duty cycle	-
7	Conducted Band Edge and Spurious Emission	1.68dB
8	Radiated Band Edge Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz
9	Radiated Spurious Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz

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

## 4.7. Equipment Used during the Test

● RF Conducted test item							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2024/08/27	2025/08/26
●	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2024/08/21	2025/08/20
●	Vector signal generator	R&S	HTWE0244	SMBV100A	260790	2024/5/25	2025/5/24
●	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

● Radiated emission- 9kHz~30MHz							
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	2023/04/06	2026/04/05
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2024/08/12	2025/08/11
●	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2024/04/08	2027/04/07
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated emission- 30MHz~1GHz							
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	2023/04/06	2026/04/05
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2024/08/12	2025/08/11
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2023/02/22	2026/02/21
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	/	2024/5/24	2025/5/23
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated emission- Above 1GHz							
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	2023/04/17	2026/04/16
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2024/08/12	2025/08/11
●	Spectrum Analyzer	R&S	HTWE0385	N9020A	MY54486658	2024/08/12	2025/08/11
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2023/02/14	2026/02/13
●	Pre-Amplifier	CD	HTWE0071	PAP-0102	12004	2024/06/06	2025/06/05
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0551	SCU18F	100855	2024/06/06	2025/06/05
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A

## 5. TEST CONDITIONS AND RESULTS

### 5.1. Antenna Requirement

#### REQUIREMENT

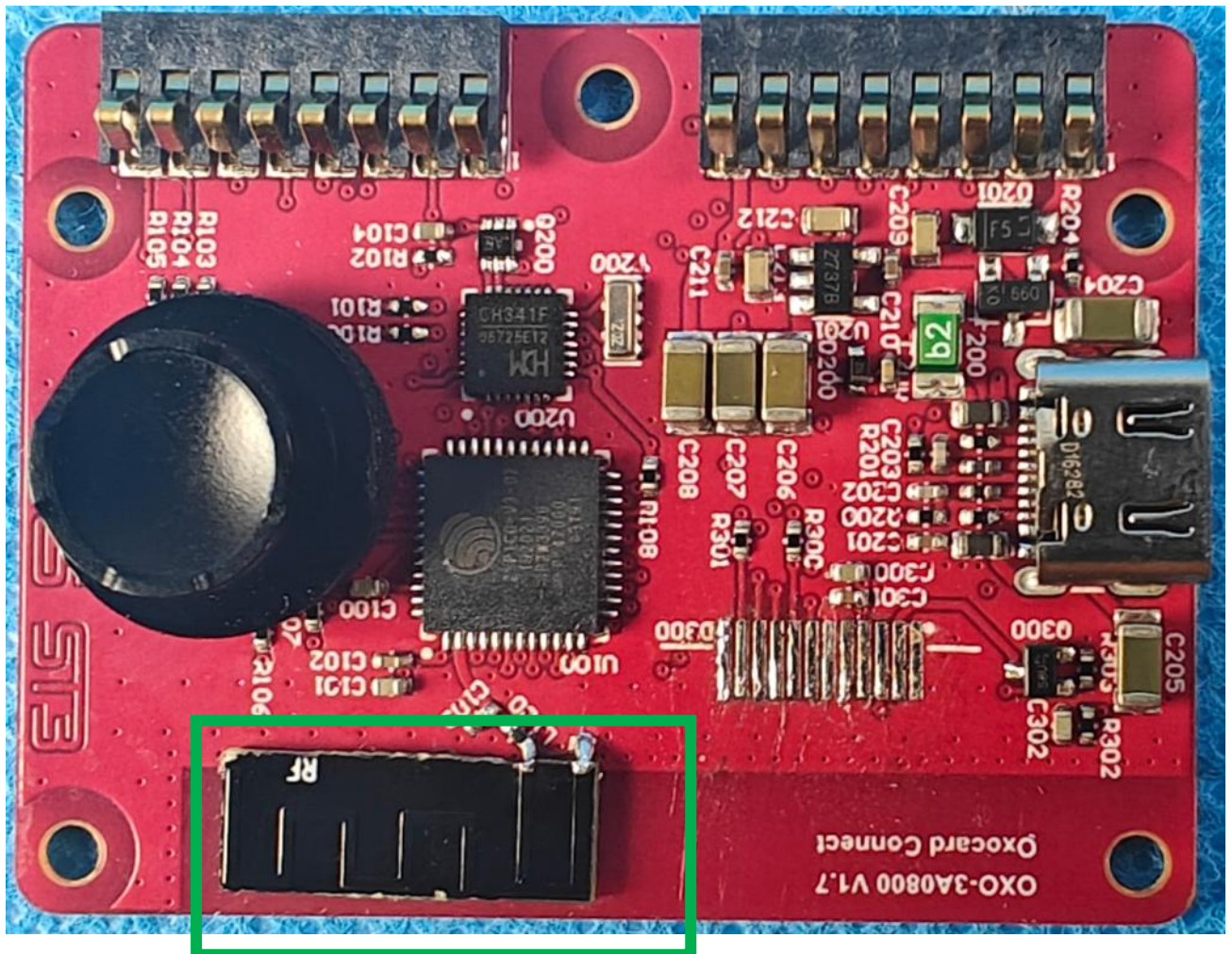
FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### TEST RESULT

Passed       Not Applicable

The antenna type is a PCB antenna, please refer to the below antenna photo.



ANT

## 5.2. AC Conducted Emission

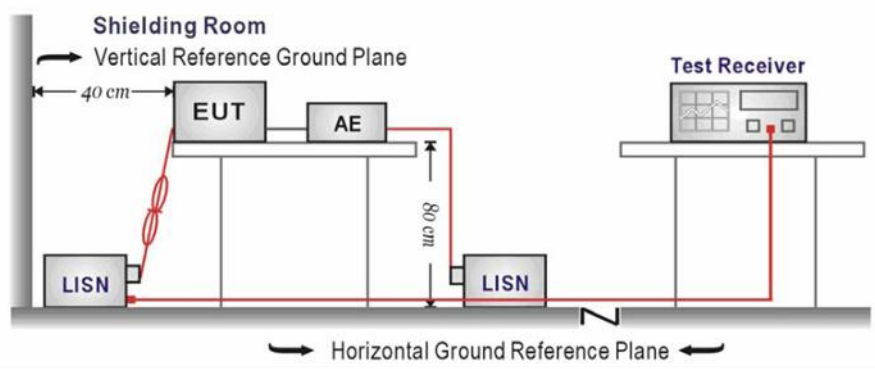
### LIMIT

#### FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\* 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

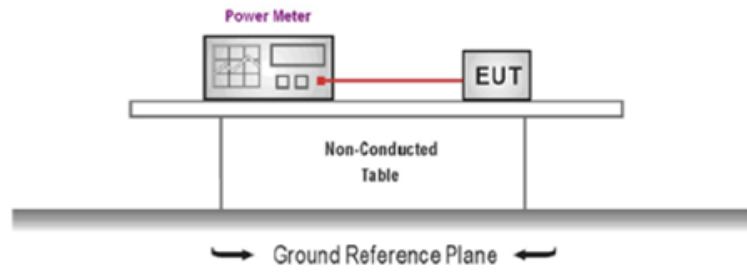
Passed  Not Applicable

### 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

Refer to the clause 4.2

#### TEST RESULT

Passed       Not Applicable

#### TEST DATA

Refer to the appendix report

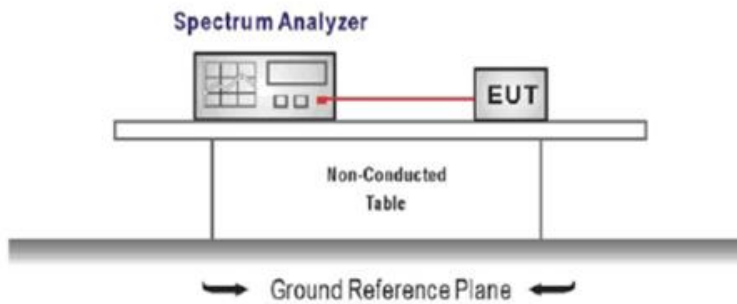
## 5.4. Power Spectral Density

### 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,
2. 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

Passed       Not Applicable

### TEST DATA

Refer to the appendix report

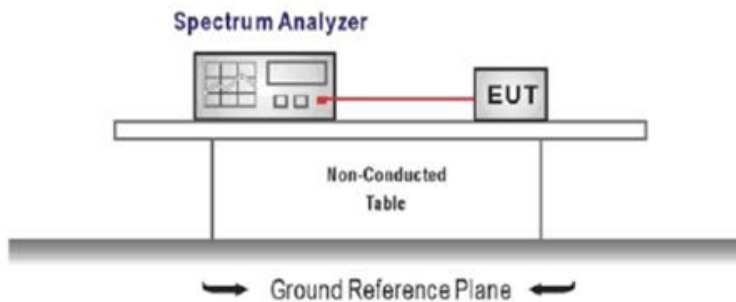
## 5.5. 6dB bandwidth

### 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



### 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  $\geq 3 \times$  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

Refer to the clause 4.2

### TEST RESULT

Passed       Not Applicable

### TEST DATA

Refer to the appendix report

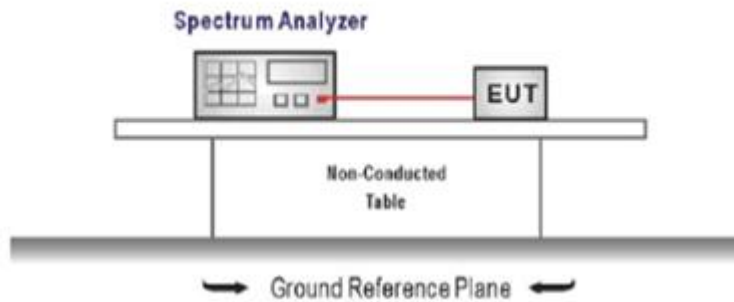


## 5.6. 99% Occupied Bandwidth

### 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  $\geq 1.5 \times$  OBW  
RBW = 1%~5%OBW  
VBW  $\geq 3 \times$  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.

### TEST MODE

Refer to the clause 4.2

### TEST RESULT

Passed       Not Applicable

### TEST DATA

Refer to the appendix report

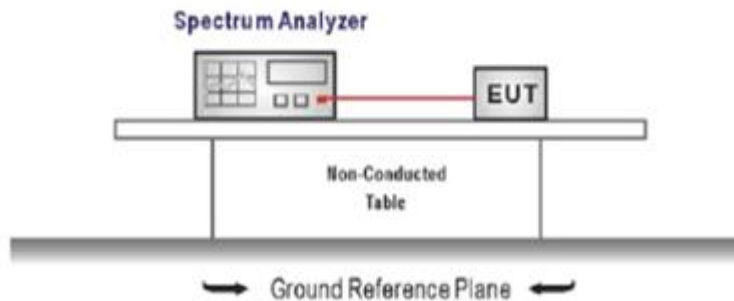


## 5.7. Duty Cycle

### LIMIT

N/A

### 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  $\geq$  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

Refer to the clause 4.2

### TEST DATA

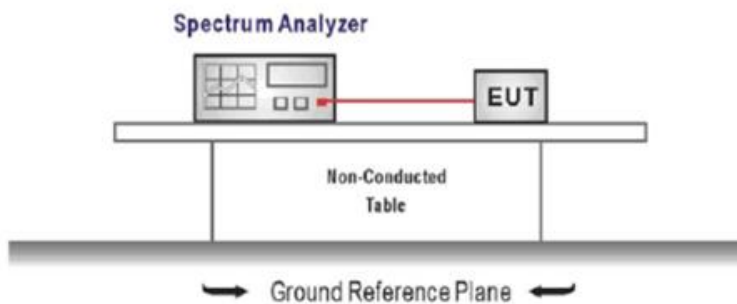
Refer to the appendix report

## 5.8. Conducted Band edge and Spurious 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 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  $\geq 3 \times$  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  $\geq 3 \times$  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.
5. 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

**TEST RESULT**

**Passed**       **Not Applicable**

**TEST DATA**

Refer to the appendix report

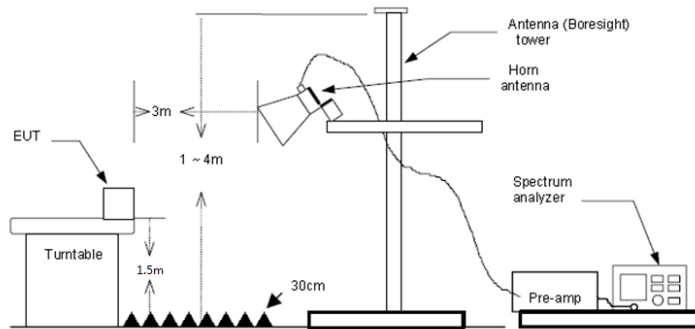
## 5.9. Radiated Band edge Emission

### 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

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 was positioned 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 the maximum 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 $\geq 1/T$ , 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 clause 5.7 duty cycle.

### TEST MODE

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).

Type	802.11b		Test channel	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	44.34	27.86	3.95	41.18	20.00	54.97	74.00	-19.03	Peak
2	2390.01	43.38	27.54	4.08	41.11	20.00	53.89	74.00	-20.11	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	33.49	27.86	3.95	41.18	20.00	44.12	54.00	-9.88	Average
2	2390.01	33.24	27.54	4.08	41.11	20.00	43.75	54.00	-10.25	Average
Type	802.11b		Test channel	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	Remark
1	2310.00	43.63	27.86	3.95	41.18	20.00	54.26	74.00	-19.74	Peak
2	2390.01	42.59	27.54	4.08	41.11	20.00	53.10	74.00	-20.90	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	33.45	27.86	3.95	41.18	20.00	44.08	54.00	-9.92	Average
2	2390.01	33.39	27.54	4.08	41.11	20.00	43.90	54.00	-10.10	Average

Type	802.11b		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	43.27	27.33	4.18	41.04	20.00	53.74	74.00	-20.26	Peak
2	2500.00	43.75	27.30	4.20	41.02	20.00	54.23	74.00	-19.77	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	33.25	27.33	4.18	41.04	20.00	43.72	54.00	-10.28	Average
2	2500.00	33.58	27.30	4.20	41.02	20.00	44.06	54.00	-9.94	Average
Type	802.11b		Test channel	CH11	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	2483.49	42.82	27.33	4.18	41.04	20.00	53.29	74.00	-20.71	Peak
2	2500.00	43.82	27.30	4.20	41.02	20.00	54.30	74.00	-19.70	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	33.12	27.33	4.18	41.04	20.00	43.59	54.00	-10.41	Average
2	2500.00	33.29	27.30	4.20	41.02	20.00	43.77	54.00	-10.23	Average

Type	802.11g		Test channel		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	43.51	27.86	3.95	41.18	20.00	54.14	74.00	-19.86	Peak
2	2390.01	44.13	27.54	4.08	41.11	20.00	54.64	74.00	-19.36	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	33.50	27.86	3.95	41.18	20.00	44.13	54.00	-9.87	Average
2	2390.01	34.42	27.54	4.08	41.11	20.00	44.93	54.00	-9.07	Average

Type	802.11g		Test channel		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	Remark
1	2310.00	44.16	27.86	3.95	41.18	20.00	54.79	74.00	-19.21	Peak
2	2390.01	43.49	27.54	4.08	41.11	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 dBuV/m	Over limit	Remark
1	2310.00	33.84	27.86	3.95	41.18	20.00	44.47	54.00	-9.53	Average
2	2390.01	33.21	27.54	4.08	41.11	20.00	43.72	54.00	-10.28	Average

Type	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	43.51	27.33	4.18	41.04	20.00	53.98	74.00	-20.02	Peak
2	2500.00	44.03	27.30	4.20	41.02	20.00	54.51	74.00	-19.49	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	33.28	27.33	4.18	41.04	20.00	43.75	54.00	-10.25	Average
2	2500.00	33.39	27.30	4.20	41.02	20.00	43.87	54.00	-10.13	Average

Type	802.11g		Test channel		CH11		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	2483.49	42.86	27.33	4.18	41.04	20.00	53.33	74.00	-20.67	Peak
2	2500.00	43.15	27.30	4.20	41.02	20.00	53.63	74.00	-20.37	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	32.86	27.33	4.18	41.04	20.00	43.33	54.00	-10.67	Average
2	2500.00	33.09	27.30	4.20	41.02	20.00	43.57	54.00	-10.43	Average



Type	802.11n(HT20)		Test channel	CH01	Polarity			Horizontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2310.00	43.62	27.86	3.95	41.18	20.00	54.25	74.00	-19.75	Peak
2	2390.01	43.59	27.54	4.08	41.11	20.00	54.10	74.00	-19.90	Peak
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2310.00	33.38	27.86	3.95	41.18	20.00	44.01	54.00	-9.99	Average
2	2390.01	33.91	27.54	4.08	41.11	20.00	44.42	54.00	-9.58	Average
Type	802.11n(HT20)		Test channel	CH01	Polarity			Vertical		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2310.00	43.62	27.86	3.95	41.18	20.00	54.25	74.00	-19.75	Peak
2	2390.01	43.21	27.54	4.08	41.11	20.00	53.72	74.00	-20.28	Peak
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2310.00	33.51	27.86	3.95	41.18	20.00	44.14	54.00	-9.86	Average
2	2390.01	33.02	27.54	4.08	41.11	20.00	43.53	54.00	-10.47	Average

Type	802.11n(HT20)		Test channel	CH11	Polarity			Horizontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2483.49	42.99	27.33	4.18	41.04	20.00	53.46	74.00	-20.54	Peak
2	2500.00	44.24	27.30	4.20	41.02	20.00	54.72	74.00	-19.28	Peak
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2483.49	33.34	27.33	4.18	41.04	20.00	43.81	54.00	-10.19	Average
2	2500.00	33.25	27.30	4.20	41.02	20.00	43.73	54.00	-10.27	Average
Type	802.11n(HT20)		Test channel	CH11	Polarity			Vertical		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2483.49	43.47	27.33	4.18	41.04	20.00	53.94	74.00	-20.06	Peak
2	2500.00	44.60	27.30	4.20	41.02	20.00	55.08	74.00	-18.92	Peak
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2483.49	33.07	27.33	4.18	41.04	20.00	43.54	54.00	-10.46	Average
2	2500.00	33.31	27.30	4.20	41.02	20.00	43.79	54.00	-10.21	Average

Type	802.11n(HT40)		Test channel	CH03	Polarity		Horizontal			
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2310.00	42.33	27.86	3.95	41.18	20.00	52.96	74.00	-21.04	Peak
2	2389.99	43.24	27.54	4.08	41.11	20.00	53.75	74.00	-20.25	Peak
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2310.00	33.24	27.86	3.95	41.18	20.00	43.87	54.00	-10.13	Average
2	2389.99	35.89	27.54	4.08	41.11	20.00	46.40	54.00	-7.60	Average

Type	802.11n(HT40)		Test channel	CH09	Polarity		Horizontal			
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2483.50	43.07	27.33	4.18	41.04	20.00	53.54	74.00	-20.46	Peak
2	2500.00	44.07	27.30	4.20	41.02	20.00	54.55	74.00	-19.45	Peak
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2483.50	33.77	27.33	4.18	41.04	20.00	44.24	54.00	-9.76	Average
2	2500.00	33.16	27.30	4.20	41.02	20.00	43.64	54.00	-10.36	Average

Type	802.11n(HT40)		Test channel	CH09	Polarity		Vertical			
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2483.50	43.66	27.33	4.18	41.04	20.00	54.13	74.00	-19.87	Peak
2	2500.00	43.90	27.30	4.20	41.02	20.00	54.38	74.00	-19.62	Peak
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	2483.50	33.05	27.33	4.18	41.04	20.00	43.52	54.00	-10.48	Average
2	2500.00	33.20	27.30	4.20	41.02	20.00	43.68	54.00	-10.32	Average



### 5.10. 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

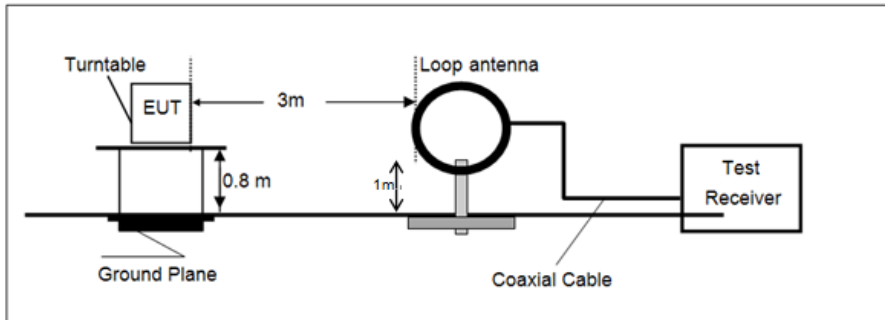
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40\*log(300/3)= Limit dBuV/m @300m +80,

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

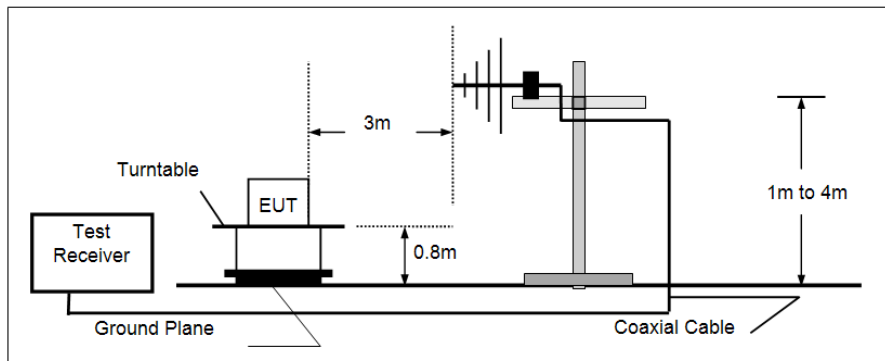
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

**TEST CONFIGURATION**

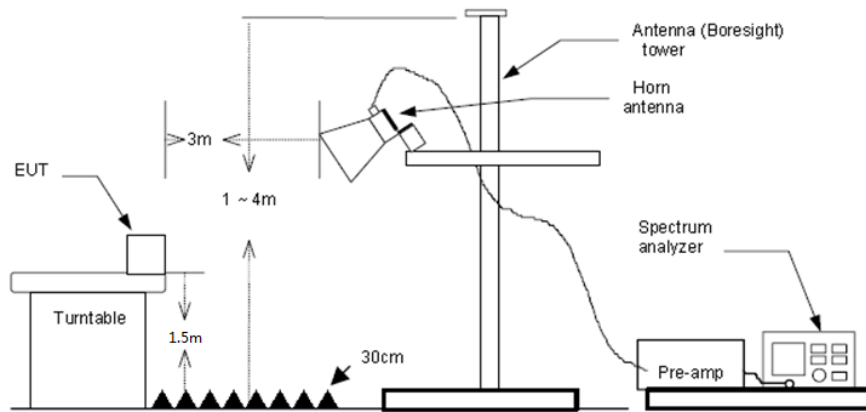
- 9 kHz ~ 30 MHz



- 30 MHz ~ 1 GHz



- Above 1 GHz



## **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
      - $VBW \geq 1/T$ , 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 clause 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.

**For 9 kHz ~ 30 MHz**

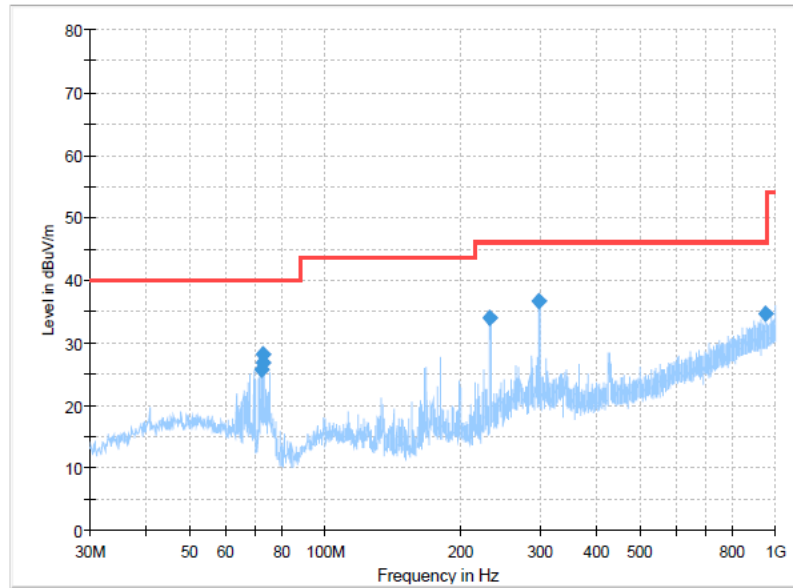
The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

**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.

Polarization:

Horizontal

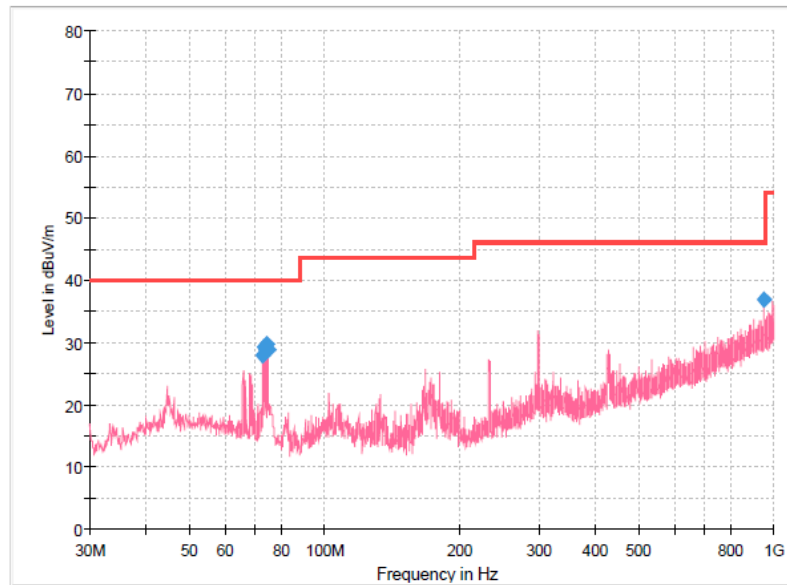


**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
72.0738	25.62	40.00	14.38	100.0	H	41.0	-13.7
72.5588	26.75	40.00	13.25	100.0	H	41.0	-14.0
72.9225	28.10	40.00	11.90	100.0	H	41.0	-14.1
232.6088	33.91	46.00	12.09	100.0	H	108.0	-9.0
298.9325	36.60	46.00	9.40	100.0	H	258.0	-6.9
948.4688	34.61	46.00	11.39	100.0	H	12.0	7.5

Polarization:

Vertical



**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
72.9225	27.86	40.00	12.14	100.0	V	155.0	-14.1
73.4075	29.37	40.00	10.63	100.0	V	155.0	-14.3
73.8925	28.94	40.00	11.06	100.0	V	155.0	-14.5
74.2563	29.82	40.00	10.18	100.0	V	155.0	-14.7
74.7413	28.75	40.00	11.25	100.0	V	155.0	-14.8
948.4688	36.92	46.00	9.08	100.0	V	30.0	7.5

**For 1 GHz ~ 25 GHz**

Type	802.11b	Test channel	CH01	Polarity	Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	54.30	28.50	4.53	40.95	46.38	74.00	-27.62	Peak
2	4821.76	47.40	31.26	5.89	40.28	44.27	74.00	-29.73	Peak
3	6001.77	50.71	32.40	6.70	39.23	50.58	74.00	-23.42	Peak
4	10321.74	41.17	39.67	8.86	40.09	49.61	74.00	-24.39	Peak
Type	802.11b	Test channel	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	2995.54	54.98	28.50	4.53	40.95	47.06	74.00	-26.94	Peak
2	3983.75	54.96	29.77	5.41	40.33	49.81	74.00	-24.19	Peak
3	4821.76	47.20	31.26	5.89	40.28	44.07	74.00	-29.93	Peak
4	6001.77	50.05	32.40	6.70	39.23	49.92	74.00	-24.08	Peak
Type	802.11b	Test channel	CH06	Polarity	Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	54.76	28.50	4.53	40.95	46.84	74.00	-27.16	Peak
2	3249.76	53.08	28.60	4.82	40.80	45.70	74.00	-28.30	Peak
3	4871.10	44.14	31.20	5.92	40.26	41.00	74.00	-33.00	Peak
4	6001.77	49.63	32.40	6.70	39.23	49.50	74.00	-24.50	Peak
Type	802.11b	Test channel	CH06	Polarity	Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	53.99	28.50	4.53	40.95	46.07	74.00	-27.93	Peak
2	3993.90	52.94	29.79	5.43	40.32	47.84	74.00	-26.16	Peak
3	6001.77	50.22	32.40	6.70	39.23	50.09	74.00	-23.91	Peak
4	10916.26	40.58	40.50	8.83	40.62	49.29	74.00	-24.71	Peak
Type	802.11b	Test channel	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	3003.17	53.79	28.51	4.54	40.95	45.89	74.00	-28.11	Peak
2	3283.02	53.38	28.40	4.83	40.80	45.81	74.00	-28.19	Peak
3	4920.96	47.67	31.20	5.95	40.23	44.59	74.00	-29.41	Peak
4	6001.77	48.63	32.40	6.70	39.23	48.50	74.00	-25.50	Peak
Type	802.11b	Test channel	CH11	Polarity	Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3003.17	54.82	28.51	4.54	40.95	46.92	74.00	-27.08	Peak
2	4920.96	46.11	31.20	5.95	40.23	43.03	74.00	-30.97	Peak
3	6001.77	48.52	32.40	6.70	39.23	48.39	74.00	-25.61	Peak
4	9393.97	41.56	39.11	8.56	39.84	49.39	74.00	-24.61	Peak



Type	802.11g		Test channel	CH01			Polarity	Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3003.17	54.35	28.51	4.54	40.95	46.45	74.00	-27.55	Peak
2	3216.84	53.23	28.80	4.81	40.81	46.03	74.00	-27.97	Peak
3	4821.76	44.00	31.26	5.89	40.28	40.87	74.00	-33.13	Peak
4	6001.77	47.75	32.40	6.70	39.23	47.62	74.00	-26.38	Peak
Type	802.11g		Test channel	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	2995.54	54.99	28.50	4.53	40.95	47.07	74.00	-26.93	Peak
2	3445.70	48.75	28.67	4.97	40.87	41.52	74.00	-32.48	Peak
3	6001.77	49.41	32.40	6.70	39.23	49.28	74.00	-24.72	Peak
4	9985.76	42.76	39.23	8.60	39.90	50.69	74.00	-23.31	Peak
Type	802.11g		Test channel	CH06			Polarity	Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	54.14	28.50	4.53	40.95	46.22	74.00	-27.78	Peak
2	3249.76	53.67	28.60	4.82	40.80	46.29	74.00	-27.71	Peak
3	4004.08	46.18	29.81	5.44	40.31	41.12	74.00	-32.88	Peak
4	6001.77	48.67	32.40	6.70	39.23	48.54	74.00	-25.46	Peak
Type	802.11g		Test channel	CH06			Polarity	Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	55.27	28.50	4.53	40.95	47.35	74.00	-26.65	Peak
2	3983.75	52.07	29.77	5.41	40.33	46.92	74.00	-27.08	Peak
3	6001.77	49.38	32.40	6.70	39.23	49.25	74.00	-24.75	Peak
4	10321.74	41.01	39.67	8.86	40.09	49.45	74.00	-24.55	Peak
Type	802.11g		Test channel	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	2995.54	53.73	28.50	4.53	40.95	45.81	74.00	-28.19	Peak
2	3283.02	54.24	28.40	4.83	40.80	46.67	74.00	-27.33	Peak
3	6001.77	49.29	32.40	6.70	39.23	49.16	74.00	-24.84	Peak
4	10916.26	41.10	40.50	8.83	40.62	49.81	74.00	-24.19	Peak
Type	802.11g		Test channel	CH11			Polarity	Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	55.29	28.50	4.53	40.95	47.37	74.00	-26.63	Peak
2	3993.90	46.87	29.79	5.43	40.32	41.77	74.00	-32.23	Peak
3	6001.77	50.87	32.40	6.70	39.23	50.74	74.00	-23.26	Peak
4	10011.21	41.86	39.20	8.61	39.91	49.76	74.00	-24.24	Peak

Type	802.11n(HT20)		Test channel	CH01			Polarity	Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2995.54	54.38	28.50	4.53	40.95	46.46	74.00	-27.54	Peak	
2	3216.84	53.16	28.80	4.81	40.81	45.96	74.00	-28.04	Peak	
3	5462.30	42.03	31.80	6.37	39.74	40.46	74.00	-33.54	Peak	
4	6001.77	48.56	32.40	6.70	39.23	48.43	74.00	-25.57	Peak	
Type	802.11n(HT20)		Test channel	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	3003.17	54.68	28.51	4.54	40.95	46.78	74.00	-27.22	Peak	
2	3216.84	49.97	28.80	4.81	40.81	42.77	74.00	-31.23	Peak	
3	5986.51	52.26	32.37	6.70	39.23	52.10	74.00	-21.90	Peak	
4	9809.40	40.70	39.32	8.60	39.86	48.76	74.00	-25.24	Peak	
Type	802.11n(HT20)		Test channel	CH06			Polarity	Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2995.54	54.79	28.50	4.53	40.95	46.87	74.00	-27.13	Peak	
2	3249.76	53.18	28.60	4.82	40.80	45.80	74.00	-28.20	Peak	
3	6001.77	49.32	32.40	6.70	39.23	49.19	74.00	-24.81	Peak	
4	10507.31	40.97	40.00	9.00	40.21	49.76	74.00	-24.24	Peak	
Type	802.11n(HT20)		Test channel	CH06			Polarity	Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2987.92	54.32	28.50	4.53	40.96	46.39	74.00	-27.61	Peak	
2	3249.76	53.73	28.60	4.82	40.80	46.35	74.00	-27.65	Peak	
3	6001.77	49.14	32.40	6.70	39.23	49.01	74.00	-24.99	Peak	
4	10507.31	41.25	40.00	9.00	40.21	50.04	74.00	-23.96	Peak	
Type	802.11n(HT20)		Test channel	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	2995.54	54.84	28.50	4.53	40.95	46.92	74.00	-27.08	Peak	
2	3283.02	53.17	28.40	4.83	40.80	45.60	74.00	-28.40	Peak	
3	6001.77	47.78	32.40	6.70	39.23	47.65	74.00	-26.35	Peak	
4	10139.45	41.51	39.24	8.71	39.98	49.48	74.00	-24.52	Peak	
Type	802.11n(HT20)		Test channel	CH11			Polarity	Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2995.54	54.81	28.50	4.53	40.95	46.89	74.00	-27.11	Peak	
2	3283.02	53.36	28.40	4.83	40.80	45.79	74.00	-28.21	Peak	
3	6001.77	48.61	32.40	6.70	39.23	48.48	74.00	-25.52	Peak	
4	10944.09	41.37	40.50	8.82	40.64	50.05	74.00	-23.95	Peak	

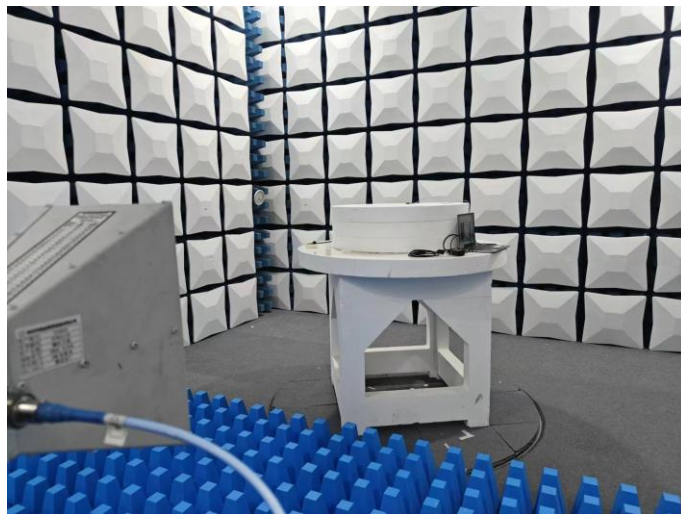
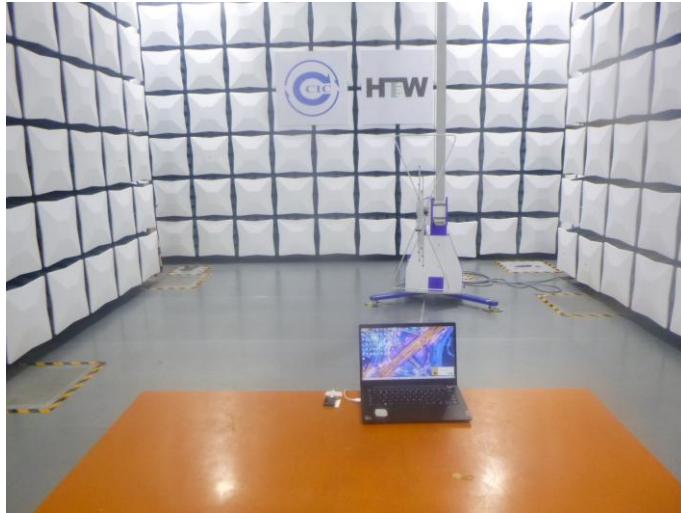
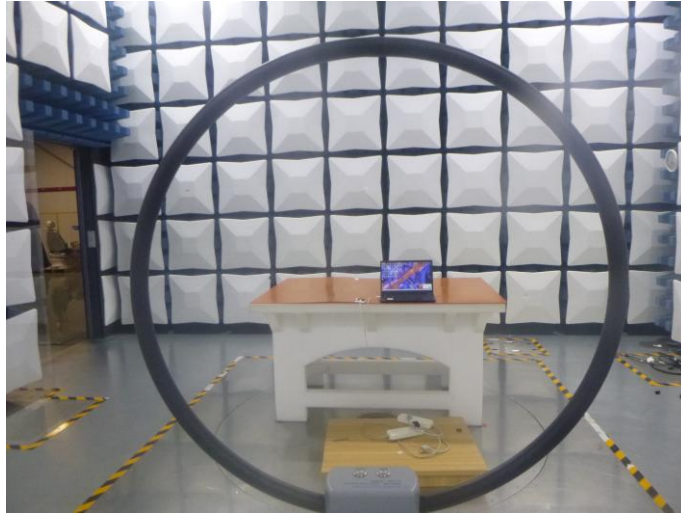


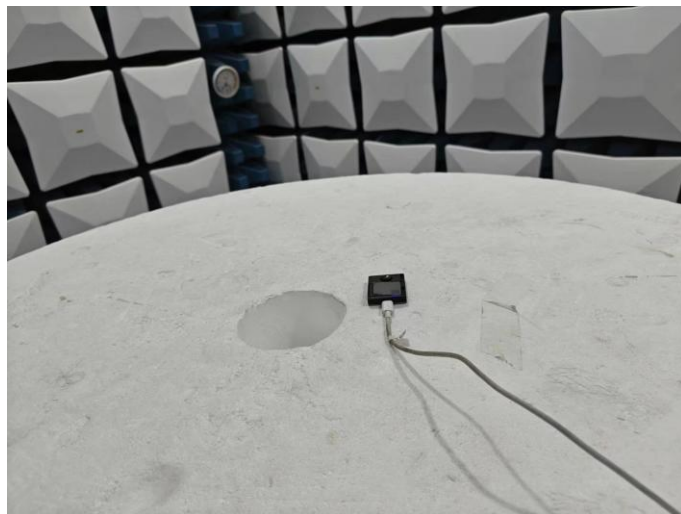
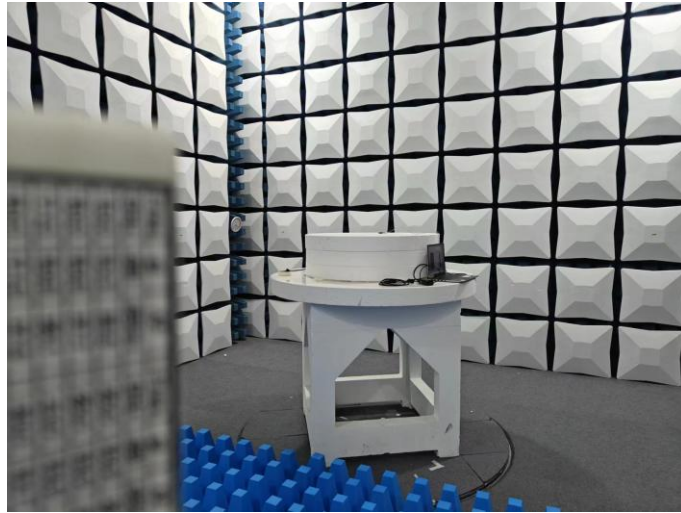
Type	802.11n(HT40)		Test channel	CH03	Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	55.05	28.50	4.53	40.95	47.13	74.00	-26.87	Peak
2	3216.84	53.47	28.80	4.81	40.81	46.27	74.00	-27.73	Peak
3	4834.05	44.87	31.23	5.90	40.27	41.73	74.00	-32.27	Peak
4	6001.77	48.88	32.40	6.70	39.23	48.75	74.00	-25.25	Peak
Type	802.11n(HT40)		Test channel	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	2995.54	54.79	28.50	4.53	40.95	46.87	74.00	-27.13	Peak
2	3216.84	50.47	28.80	4.81	40.81	43.27	74.00	-30.73	Peak
3	6001.77	49.77	32.40	6.70	39.23	49.64	74.00	-24.36	Peak
4	11515.68	40.29	40.47	9.22	40.22	49.76	74.00	-24.24	Peak
Type	802.11n(HT40)		Test channel	CH06	Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	55.62	28.50	4.53	40.95	47.70	74.00	-26.30	Peak
2	6001.77	49.86	32.40	6.70	39.23	49.73	74.00	-24.27	Peak
3	8002.06	45.28	37.00	8.04	39.94	50.38	74.00	-23.62	Peak
4	9985.76	42.46	39.23	8.60	39.90	50.39	74.00	-23.61	Peak
Type	802.11n(HT40)		Test channel	CH06	Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	55.62	28.50	4.53	40.95	47.70	74.00	-26.30	Peak
2	3445.70	48.91	28.67	4.97	40.87	41.68	74.00	-32.32	Peak
3	6001.77	49.86	32.40	6.70	39.23	49.73	74.00	-24.27	Peak
4	8002.06	45.28	37.00	8.04	39.94	50.38	74.00	-23.62	Peak
Type	802.11n(HT40)		Test channel	CH09	Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	55.29	28.50	4.53	40.95	47.37	74.00	-26.63	Peak
2	3283.02	53.51	28.40	4.83	40.80	45.94	74.00	-28.06	Peak
3	6001.77	48.68	32.40	6.70	39.23	48.55	74.00	-25.45	Peak
4	8002.06	42.60	37.00	8.04	39.94	47.70	74.00	-26.30	Peak
Type	802.11n(HT40)		Test channel	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	2995.54	55.39	28.50	4.53	40.95	47.47	74.00	-26.53	Peak
2	3993.90	55.29	29.79	5.43	40.32	50.19	74.00	-23.81	Peak
3	6001.77	50.46	32.40	6.70	39.23	50.33	74.00	-23.67	Peak
4	9985.76	43.04	39.23	8.60	39.90	50.97	74.00	-23.03	Peak



## 6. TEST SETUP PHOTOS

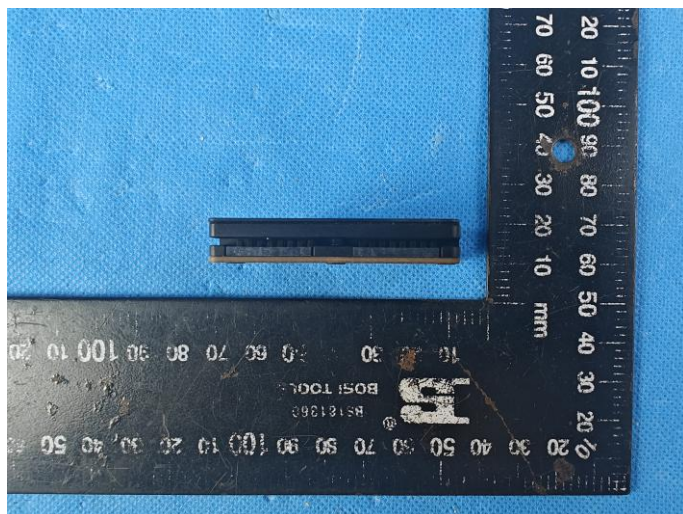
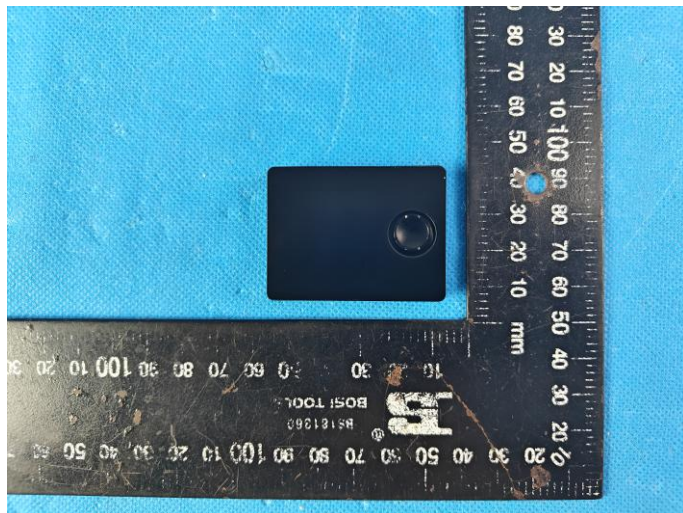
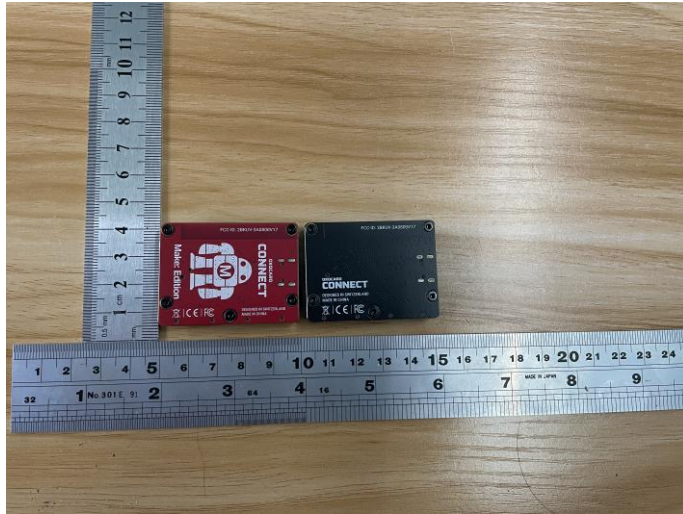
Radiated Emission



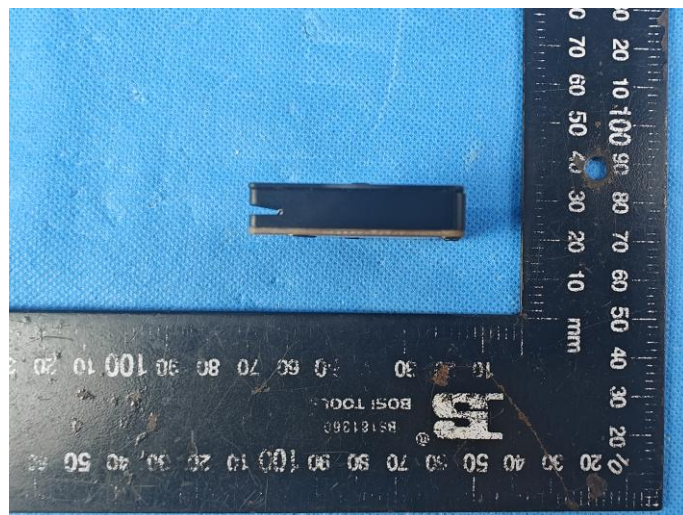
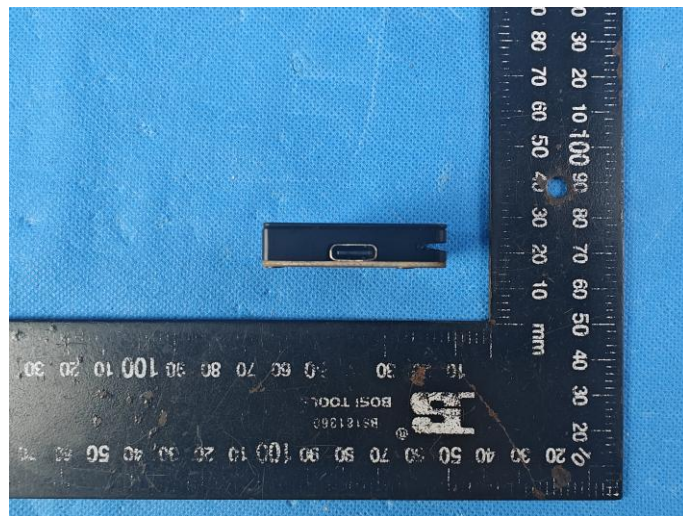
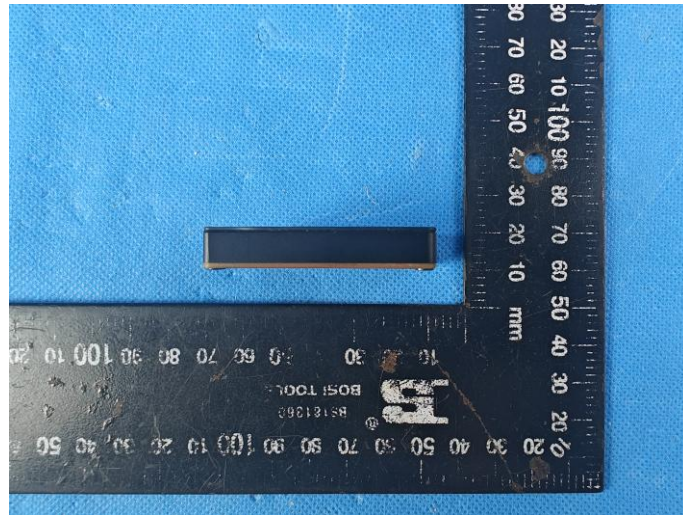


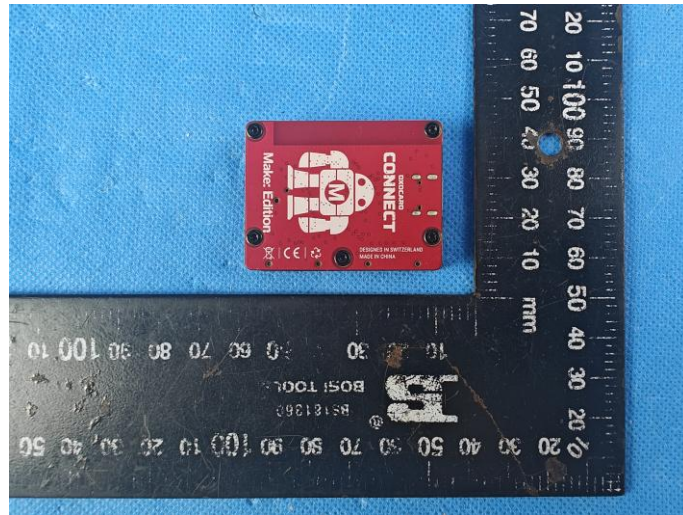
## 7. EXTERNAL AND INTERNAL PHOTOS

### 7.1. External Photos



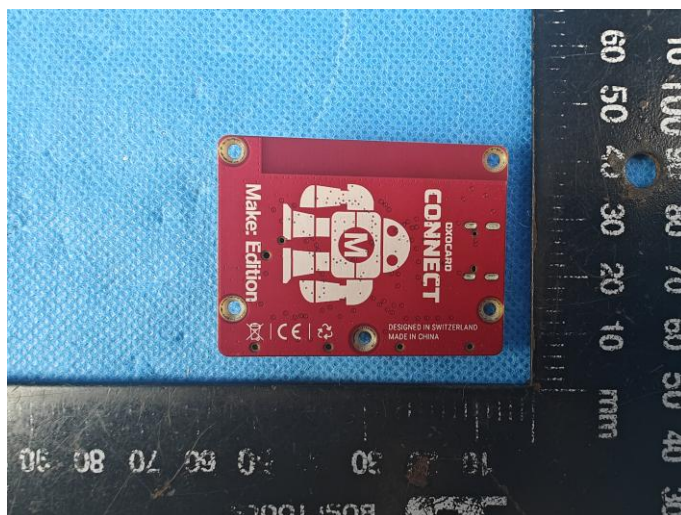
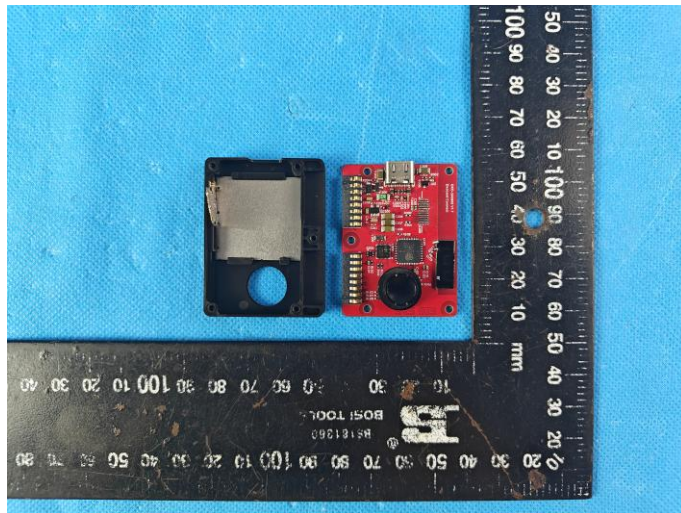








## 7.2. Internal Photos





# APPENDIX REPORT

Project No.	SHT2408069802W	Radio Specification	WIFI 2.4G
Test sample No.	YPHT24080698002	Model No.	Oxocard Connect
Start test date	2024-09-05	Finish date	2024-09-11
Temperature	26.4℃	Humidity	48%
Test Engineer	Chenxin Ling	Auditor	Xiaodong Zheo

Appendix clause	Test item	Result
A	Conducted Peak Output Power	Pass
B	Power Spectral Density	Pass
C	6 dB Bandwidth	Pass
D	99% Occupied Bandwidth	Pass
E	Duty Cycle	Pass
F	Band edge and Spurious Emissions (conducted)	Pass

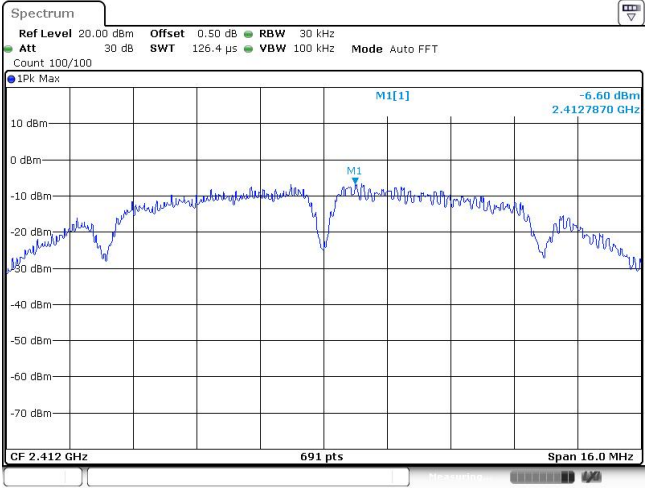
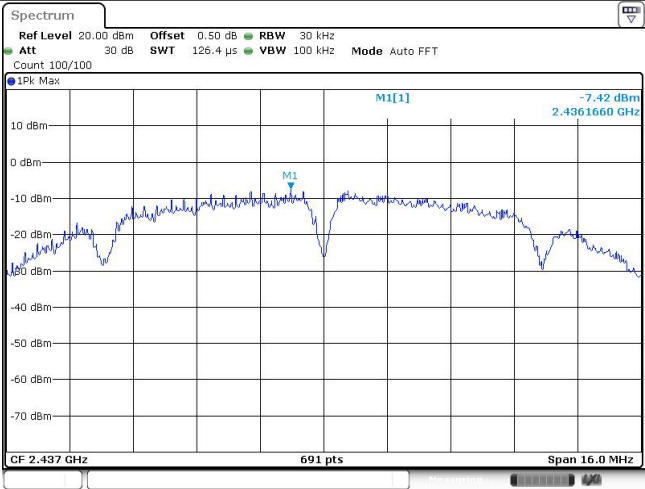
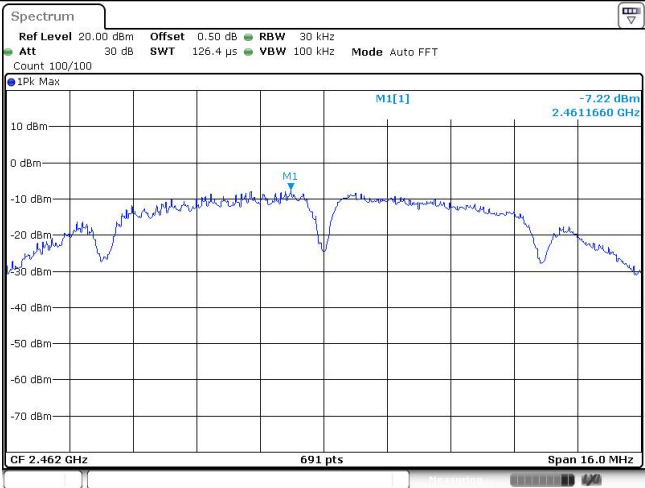


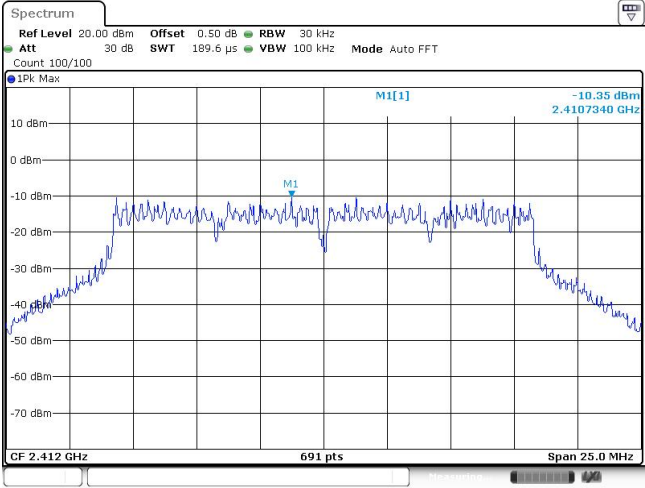
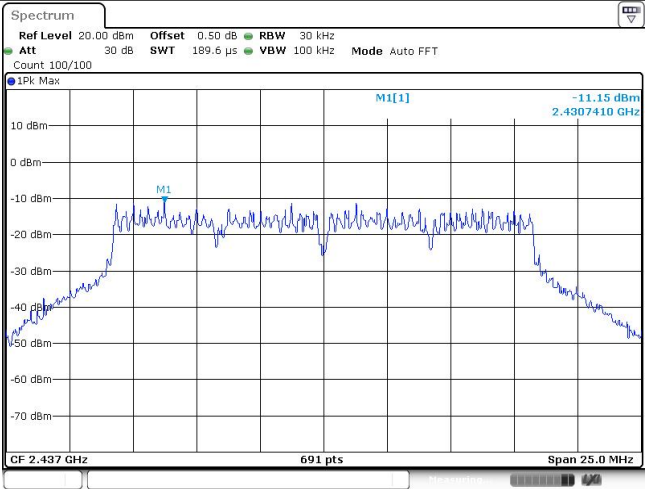
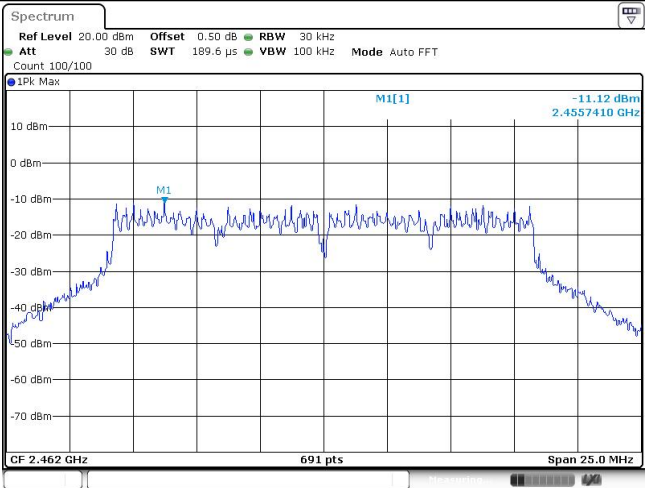
**Appendix A: Conducted Peak Output Power**

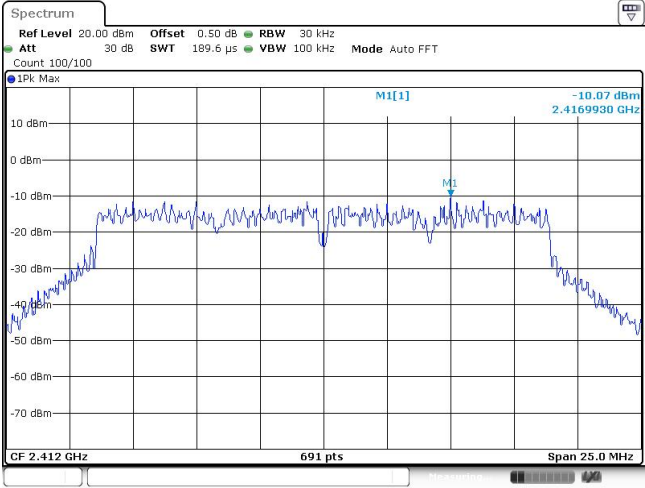
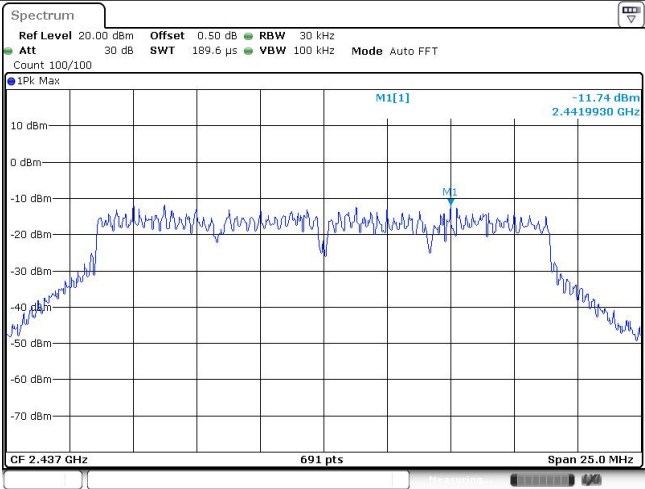
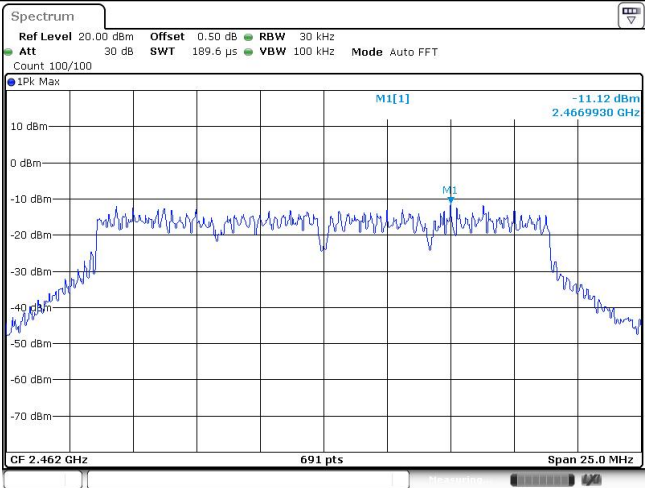
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	10.51	9.86	≤ 30.00	Pass
	06	9.71	9.25		
	11	10.20	9.63		
802.11g	01	12.77	11.92	≤ 30.00	Pass
	06	11.81	10.96		
	11	12.38	11.68		
802.11n (HT20)	01	12.81	12.02	≤ 30.00	Pass
	06	11.72	11.00		
	11	12.31	11.64		
802.11n(HT40)	03	12.41	11.75	≤ 30.00	Pass
	06	11.53	10.86		
	09	11.97	11.28		

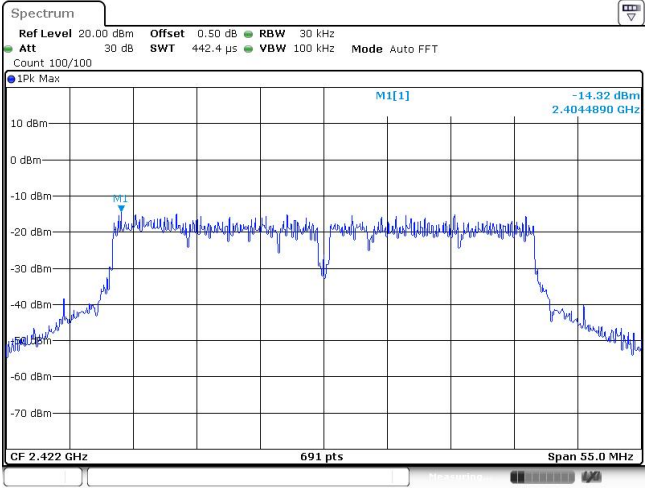
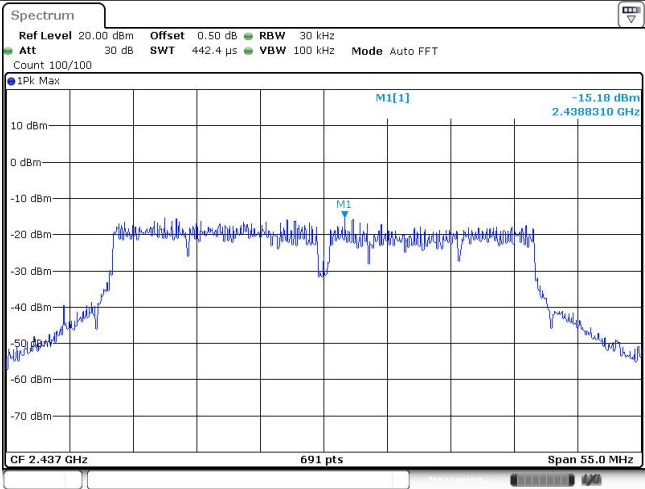
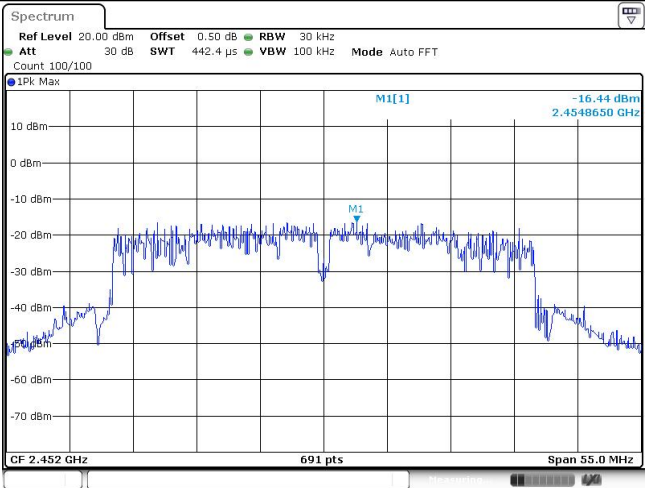
**Appendix B: Power Spectral Density**

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-6.60	≤8.00	Pass
	06	-7.42		
	11	-7.22		
802.11g	01	-10.35	≤8.00	Pass
	06	-11.15		
	11	-11.12		
802.11n(HT20)	01	-10.07	≤8.00	Pass
	06	-11.74		
	11	-11.12		
802.11n(HT40)	03	-14.32	≤8.00	Pass
	06	-15.18		
	09	-16.44		

Type:		802.11 b
CH01	 <p>Spectrum</p> <p>Ref Level 20.00 dBm    Offset 0.50 dB    RBW 30 kHz Att 30 dB    SWT 126.4 μs    VBW 100 kHz    Mode Auto FFT Count 100/100</p> <p>1PK Max</p> <p>M1[1] -6.60 dBm 2.4127870 GHz</p> <p>CF 2.412 GHz    691 pts    Span 16.0 MHz</p> <p>Date: 6.SEP.2024 13:42:48</p>	
CH06	 <p>Spectrum</p> <p>Ref Level 20.00 dBm    Offset 0.50 dB    RBW 30 kHz Att 30 dB    SWT 126.4 μs    VBW 100 kHz    Mode Auto FFT Count 100/100</p> <p>1PK Max</p> <p>M1[1] -7.42 dBm 2.4361660 GHz</p> <p>CF 2.437 GHz    691 pts    Span 16.0 MHz</p> <p>Date: 6.SEP.2024 13:44:37</p>	
CH11	 <p>Spectrum</p> <p>Ref Level 20.00 dBm    Offset 0.50 dB    RBW 30 kHz Att 30 dB    SWT 126.4 μs    VBW 100 kHz    Mode Auto FFT Count 100/100</p> <p>1PK Max</p> <p>M1[1] -7.22 dBm 2.4611660 GHz</p> <p>CF 2.462 GHz    691 pts    Span 16.0 MHz</p> <p>Date: 6.SEP.2024 13:46:27</p>	

Type:		802.11 g
CH01	 <p>Date: 6.SEP.2024 13:48:10</p>	
CH06	 <p>Date: 6.SEP.2024 13:49:59</p>	
CH11	 <p>Date: 6.SEP.2024 13:51:24</p>	

Type:		802.11n(HT20)
CH01	 <p>Ref Level 20.00 dBm Att 30 dB Offset 0.50 dB RBW 30 kHz SWT 189.6 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>1PK Max</p> <p>M1[1] -10.07 dBm 2.4169930 GHz</p> <p>CF 2.412 GHz 691 pts Span 25.0 MHz</p> <p>Date: 6.SEP.2024 13:53:03</p>	
CH06	 <p>Ref Level 20.00 dBm Att 30 dB Offset 0.50 dB RBW 30 kHz SWT 189.6 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>1PK Max</p> <p>M1[1] -11.74 dBm 2.4419930 GHz</p> <p>CF 2.437 GHz 691 pts Span 25.0 MHz</p> <p>Date: 6.SEP.2024 13:54:46</p>	
CH11	 <p>Ref Level 20.00 dBm Att 30 dB Offset 0.50 dB RBW 30 kHz SWT 189.6 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>1PK Max</p> <p>M1[1] -11.12 dBm 2.4669930 GHz</p> <p>CF 2.462 GHz 691 pts Span 25.0 MHz</p> <p>Date: 6.SEP.2024 13:56:13</p>	

Type:		802.11n(HT40)
CH03	 <p>Spectrum</p> <p>Ref Level 20.00 dBm    Offset 0.50 dB    RBW 30 kHz Att 30 dB    SWT 442.4 μs    VBW 100 kHz    Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] -14.32 dBm 2.4044890 GHz</p> <p>CF 2.422 GHz    691 pts    Span 55.0 MHz</p> <p>Date: 6.SEP.2024 13:57:49</p>	
CH06	 <p>Spectrum</p> <p>Ref Level 20.00 dBm    Offset 0.50 dB    RBW 30 kHz Att 30 dB    SWT 442.4 μs    VBW 100 kHz    Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] -15.18 dBm 2.4388310 GHz</p> <p>CF 2.437 GHz    691 pts    Span 55.0 MHz</p> <p>Date: 6.SEP.2024 14:08:33</p>	
CH09	 <p>Spectrum</p> <p>Ref Level 20.00 dBm    Offset 0.50 dB    RBW 30 kHz Att 30 dB    SWT 442.4 μs    VBW 100 kHz    Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] -16.44 dBm 2.4548650 GHz</p> <p>CF 2.452 GHz    691 pts    Span 55.0 MHz</p> <p>Date: 6.SEP.2024 14:00:54</p>	

**Appendix C: 6dB bandwidth**

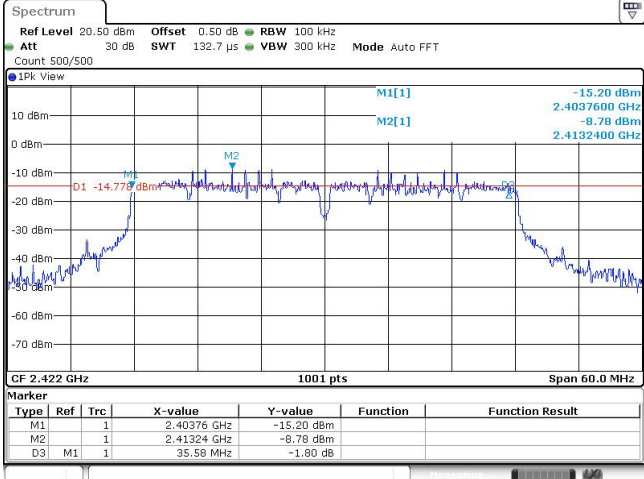
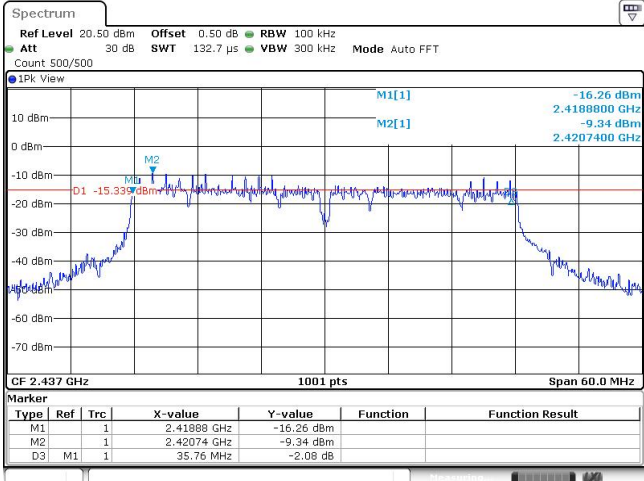
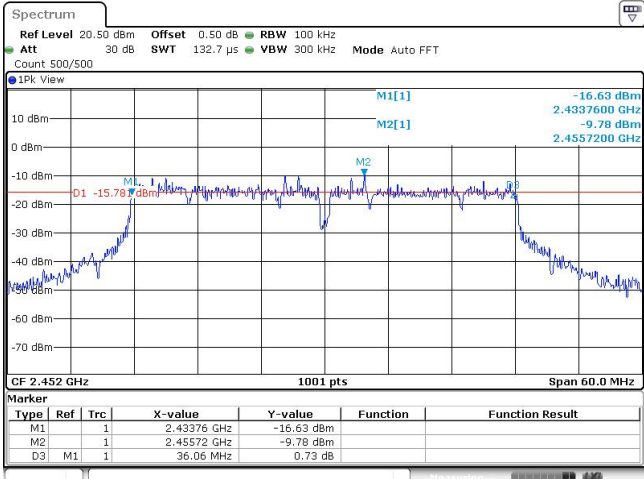
Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.18	≥0.5	Pass
	06	9.66		
	11	9.36		
802.11g	01	16.44	≥0.5	Pass
	06	16.41		
	11	16.59		
802.11n(HT20)	01	17.64	≥0.5	Pass
	06	17.88		
	11	17.64		
802.11n(HT40)	03	35.58	≥0.5	Pass
	06	35.76		
	09	36.06		

Type:	802.11 b																												
CH01	<p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz          Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT          Count 500/500</p> <p>1PK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40738 GHz</td> <td>-9.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.41149 GHz</td> <td>-2.43 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>9.18 MHz</td> <td>0.53 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6.SEP.2024 13:42:29</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40738 GHz	-9.35 dBm			M2		1	2.41149 GHz	-2.43 dBm			D3	M1	1	9.18 MHz	0.53 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.40738 GHz	-9.35 dBm																									
M2		1	2.41149 GHz	-2.43 dBm																									
D3	M1	1	9.18 MHz	0.53 dB																									
CH06	<p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz          Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT          Count 500/500</p> <p>1PK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.43238 GHz</td> <td>-9.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.43748 GHz</td> <td>-3.40 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>9.66 MHz</td> <td>-0.84 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6.SEP.2024 13:44:19</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.43238 GHz	-9.60 dBm			M2		1	2.43748 GHz	-3.40 dBm			D3	M1	1	9.66 MHz	-0.84 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.43238 GHz	-9.60 dBm																									
M2		1	2.43748 GHz	-3.40 dBm																									
D3	M1	1	9.66 MHz	-0.84 dB																									
CH11	<p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz          Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT          Count 500/500</p> <p>1PK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.45741 GHz</td> <td>-10.78 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.46254 GHz</td> <td>-3.39 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>9.36 MHz</td> <td>1.10 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6.SEP.2024 13:46:08</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.45741 GHz	-10.78 dBm			M2		1	2.46254 GHz	-3.39 dBm			D3	M1	1	9.36 MHz	1.10 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.45741 GHz	-10.78 dBm																									
M2		1	2.46254 GHz	-3.39 dBm																									
D3	M1	1	9.36 MHz	1.10 dB																									



Type:	802.11 g																												
CH01	<p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz          Att 30 dB SWT 75.9 <math>\mu</math>s VBW 300 kHz Mode Auto FFT          Count 500/500</p> <p>1PK View</p> <p>M1[1] -13.30 dBm          2.4037500 GHz          M2[1] -6.92 dBm          2.4169800 GHz</p> <p>D1 -12.915 dBm</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40375 GHz</td> <td>-13.30 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.41698 GHz</td> <td>-6.92 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.44 MHz</td> <td>-0.26 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6.SEP.2024 13:47:52</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40375 GHz	-13.30 dBm			M2		1	2.41698 GHz	-6.92 dBm			D3	M1	1	16.44 MHz	-0.26 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.40375 GHz	-13.30 dBm																									
M2		1	2.41698 GHz	-6.92 dBm																									
D3	M1	1	16.44 MHz	-0.26 dB																									
CH06	<p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz          Att 30 dB SWT 75.9 <math>\mu</math>s VBW 300 kHz Mode Auto FFT          Count 500/500</p> <p>1PK View</p> <p>M1[1] -13.13 dBm          2.4287800 GHz          M2[1] -6.92 dBm          2.4382600 GHz</p> <p>D1 -12.922 dBm</p> <p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.42878 GHz</td> <td>-13.13 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.43826 GHz</td> <td>-6.92 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.41 MHz</td> <td>-1.39 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6.SEP.2024 13:49:41</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.42878 GHz	-13.13 dBm			M2		1	2.43826 GHz	-6.92 dBm			D3	M1	1	16.41 MHz	-1.39 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.42878 GHz	-13.13 dBm																									
M2		1	2.43826 GHz	-6.92 dBm																									
D3	M1	1	16.41 MHz	-1.39 dB																									
CH11	<p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz          Att 30 dB SWT 75.9 <math>\mu</math>s VBW 300 kHz Mode Auto FFT          Count 500/500</p> <p>1PK View</p> <p>M1[1] -16.21 dBm          2.4536600 GHz          M2[1] -9.26 dBm          2.4563600 GHz</p> <p>D1 -15.261 dBm</p> <p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.45366 GHz</td> <td>-16.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.45636 GHz</td> <td>-9.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.59 MHz</td> <td>0.42 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6.SEP.2024 13:51:06</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.45366 GHz	-16.21 dBm			M2		1	2.45636 GHz	-9.26 dBm			D3	M1	1	16.59 MHz	0.42 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.45366 GHz	-16.21 dBm																									
M2		1	2.45636 GHz	-9.26 dBm																									
D3	M1	1	16.59 MHz	0.42 dB																									

Type:	802.11n(HT20)																												
CH01	<p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz          Att 30 dB SWT 75.9 <math>\mu</math>s VBW 300 kHz Mode Auto FFT          Count 500/500</p> <p>1PK View</p> <p>M1[1] -12.74 dBm          2.4031500 GHz          M2[1] -6.05 dBm          2.4132600 GHz</p> <p>D1 -12.050 dBm</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40315 GHz</td> <td>-12.74 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.41326 GHz</td> <td>-6.05 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>17.64 MHz</td> <td>0.03 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6.SEP.2024 13:52:45</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40315 GHz	-12.74 dBm			M2		1	2.41326 GHz	-6.05 dBm			D3	M1	1	17.64 MHz	0.03 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.40315 GHz	-12.74 dBm																									
M2		1	2.41326 GHz	-6.05 dBm																									
D3	M1	1	17.64 MHz	0.03 dB																									
CH06	<p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz          Att 30 dB SWT 75.9 <math>\mu</math>s VBW 300 kHz Mode Auto FFT          Count 500/500</p> <p>1PK View</p> <p>M1[1] -17.23 dBm          2.4280300 GHz          M2[1] -10.46 dBm          2.4288400 GHz</p> <p>D1 -16.457 dBm</p> <p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.42803 GHz</td> <td>-17.23 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.42884 GHz</td> <td>-10.46 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>17.88 MHz</td> <td>-0.14 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6.SEP.2024 13:54:27</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.42803 GHz	-17.23 dBm			M2		1	2.42884 GHz	-10.46 dBm			D3	M1	1	17.88 MHz	-0.14 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.42803 GHz	-17.23 dBm																									
M2		1	2.42884 GHz	-10.46 dBm																									
D3	M1	1	17.88 MHz	-0.14 dB																									
CH11	<p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz          Att 30 dB SWT 75.9 <math>\mu</math>s VBW 300 kHz Mode Auto FFT          Count 500/500</p> <p>1PK View</p> <p>M1[1] -13.79 dBm          2.4531500 GHz          M2[1] -6.27 dBm          2.4632600 GHz</p> <p>D1 -12.268 dBm</p> <p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.45315 GHz</td> <td>-13.79 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.46326 GHz</td> <td>-6.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>17.64 MHz</td> <td>0.11 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6.SEP.2024 13:55:55</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.45315 GHz	-13.79 dBm			M2		1	2.46326 GHz	-6.27 dBm			D3	M1	1	17.64 MHz	0.11 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.45315 GHz	-13.79 dBm																									
M2		1	2.46326 GHz	-6.27 dBm																									
D3	M1	1	17.64 MHz	0.11 dB																									

Type:	802.11n(HT40)																												
CH03	 <p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz          Att 30 dB SWT 132.7 μs VBW 300 kHz Mode Auto FFT          Count 500/500</p> <p>1PK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] -15.20 dBm 2.4037600 GHz M2[1] -9.78 dBm 2.4132400 GHz</p> <p>D1 -14.779 dBm</p> <p>CF 2.422 GHz 1001 pts Span 60.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40376 GHz</td> <td>-15.20 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.41324 GHz</td> <td>-9.78 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>35.58 MHz</td> <td>-1.80 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6.SEP.2024 13:57:31</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40376 GHz	-15.20 dBm			M2		1	2.41324 GHz	-9.78 dBm			D3	M1	1	35.58 MHz	-1.80 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.40376 GHz	-15.20 dBm																									
M2		1	2.41324 GHz	-9.78 dBm																									
D3	M1	1	35.58 MHz	-1.80 dB																									
CH06	 <p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz          Att 30 dB SWT 132.7 μs VBW 300 kHz Mode Auto FFT          Count 500/500</p> <p>1PK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] -16.26 dBm 2.4188800 GHz M2[1] -9.34 dBm 2.4207400 GHz</p> <p>D1 -15.339 dBm</p> <p>CF 2.437 GHz 1001 pts Span 60.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.41888 GHz</td> <td>-16.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.42074 GHz</td> <td>-9.34 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>35.76 MHz</td> <td>-2.08 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6.SEP.2024 14:08:15</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.41888 GHz	-16.26 dBm			M2		1	2.42074 GHz	-9.34 dBm			D3	M1	1	35.76 MHz	-2.08 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.41888 GHz	-16.26 dBm																									
M2		1	2.42074 GHz	-9.34 dBm																									
D3	M1	1	35.76 MHz	-2.08 dB																									
CH09	 <p><b>Spectrum</b>          Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz          Att 30 dB SWT 132.7 μs VBW 300 kHz Mode Auto FFT          Count 500/500</p> <p>1PK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] -16.63 dBm 2.4337600 GHz M2[1] -9.78 dBm 2.4557200 GHz</p> <p>D1 -15.787 dBm</p> <p>CF 2.452 GHz 1001 pts Span 60.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.43376 GHz</td> <td>-16.63 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.45572 GHz</td> <td>-9.78 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>36.06 MHz</td> <td>0.73 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 6.SEP.2024 14:00:35</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.43376 GHz	-16.63 dBm			M2		1	2.45572 GHz	-9.78 dBm			D3	M1	1	36.06 MHz	0.73 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.43376 GHz	-16.63 dBm																									
M2		1	2.45572 GHz	-9.78 dBm																									
D3	M1	1	36.06 MHz	0.73 dB																									