



# FCC Part 15C Test Report

## FCC ID: 2AV6Y-CP31M

Applicant: SHENZHEN PEICHENG TECHNOLOGY CO.,LTD

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Manufacturer: SHENZHEN PEICHENG TECHNOLOGY CO.,LTD

Address: 5th floor,B building,Yingxin factory,Baotian 3rd Rd., Xixiang,Bao'an District,Shenzhen, China

Product Name: Tablet

Trade Mark: N/A

Model Number: CP31M  
CP31, CP31MK

Date of Receipt: Sep. 03, 2025

Test Date: Sep. 03, 2025 - Sep. 12, 2025

Date of Report: Sep. 12, 2025

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC PART 15 C 15.247  
ANSI C63.10:2013

Test Result: Pass

Report Number: DLE-250903007R

Prepared (Test Engineer): Ken Tan

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang



*This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.*



| Table of Contents                                                            | Page     |
|------------------------------------------------------------------------------|----------|
| <b>1 . SUMMARY OF TEST RESULTS</b>                                           | <b>4</b> |
| 1.1 MEASUREMENT UNCERTAINTY                                                  | 4        |
| <b>2 . GENERAL INFORMATION</b>                                               | <b>5</b> |
| 2.1 GENERAL DESCRIPTION OF EUT                                               | 5        |
| 2.2 DESCRIPTION OF TEST MODES                                                | 6        |
| 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED                  | 6        |
| 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)                             | 7        |
| 2.5 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING                             | 7        |
| 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS                                       | 8        |
| <b>3 . EMC EMISSION TEST</b>                                                 | <b>9</b> |
| 3.1 CONDUCTED EMISSION MEASUREMENT                                           | 9        |
| 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS                                   | 9        |
| 3.1.2 TEST PROCEDURE                                                         | 9        |
| 3.1.3 DEVIATION FROM TEST STANDARD                                           | 9        |
| 3.1.4 TEST SETUP                                                             | 10       |
| 3.1.5 EUT OPERATING CONDITIONS                                               | 10       |
| 3.1.6 TEST RESULTS                                                           | 10       |
| 3.2 RADIATED EMISSION MEASUREMENT                                            | 13       |
| 3.2.1 RADIATED EMISSION LIMITS                                               | 13       |
| 3.2.2 TEST PROCEDURE                                                         | 14       |
| 3.2.3 DEVIATION FROM TEST STANDARD                                           | 14       |
| 3.2.4 TEST SETUP                                                             | 14       |
| 3.2.5 EUT OPERATING CONDITIONS                                               | 15       |
| 3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)                                   | 16       |
| 3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)                                    | 17       |
| 3.2.8 TEST RESULTS (1GHZ~25GHZ)                                              | 19       |
| 3.3 RADIATED BAND EMISSION MEASUREMENT                                       | 22       |
| 3.3.1 TEST REQUIREMENT:                                                      | 22       |
| 3.3.2 TEST PROCEDURE                                                         | 22       |
| 3.3.3 DEVIATION FROM TEST STANDARD                                           | 22       |
| 3.3.4 TEST SETUP                                                             | 23       |
| 3.3.5 EUT OPERATING CONDITIONS                                               | 23       |
| 3.4 CONDUCTED BAND EDGE EMISSION&CONDUCTED SPURIOUS EMISSIONS<br>MEASUREMENT | 26       |
| 3.4.1 APPLICABLE STANDARD                                                    | 27       |
| 3.4.2 TEST PROCEDURE                                                         | 27       |
| 3.4.3 DEVIATION FROM STANDARD                                                | 27       |



| Table of Contents               | Page |
|---------------------------------|------|
| 3.4.4 TEST SETUP                | 27   |
| 3.4.5 EUT OPERATION CONDITIONS  | 27   |
| 3.4.6 TEST RESULTS              | 27   |
| 4 . AVERAGE OUTPUT POWER        | 31   |
| 4.1 APPLIED PROCEDURES / LIMIT  | 31   |
| 4.1.1 TEST PROCEDURE            | 31   |
| 4.1.2 DEVIATION FROM STANDARD   | 31   |
| 4.1.3 TEST SETUP                | 31   |
| 4.1.4 EUT OPERATION CONDITIONS  | 31   |
| 4.1.5 TEST RESULTS              | 32   |
| 5 . POWER SPECTRAL DENSITY TEST | 35   |
| 5.1 APPLIED PROCEDURES / LIMIT  | 35   |
| 5.1.1 TEST PROCEDURE            | 35   |
| 5.1.2 DEVIATION FROM STANDARD   | 35   |
| 5.1.3 TEST SETUP                | 35   |
| 5.1.4 EUT OPERATION CONDITIONS  | 35   |
| 5.1.5 TEST RESULTS              | 36   |
| 6 . 6DB BANDWIDTH TEST          | 39   |
| 6.1 APPLIED PROCEDURES / LIMIT  | 39   |
| 6.1.1 TEST PROCEDURE            | 39   |
| 6.1.2 DEVIATION FROM STANDARD   | 39   |
| 6.1.3 TEST SETUP                | 39   |
| 6.1.4 EUT OPERATION CONDITIONS  | 39   |
| 6.1.5 TEST RESULTS              | 40   |
| 7 . ANTENNA REQUIREMENT         | 45   |
| 7.1 STANDARD REQUIREMENT        | 45   |
| 7.2 EUT ANTENNA                 | 45   |
| 8 . TEST SEUUP PHOTO            | 45   |
| 9 . EUT PHOTO                   | 45   |



## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 (15.247) , Subpart C |                              |          |        |
|---------------------------------|------------------------------|----------|--------|
| Standard Section                | Test Item                    | Judgment | Remark |
| 15.207                          | Conducted Emission           | PASS     |        |
| 15.205, 15.209, 15.247(d)       | Radiated Spurious Emission   | PASS     |        |
| 15.209, 15.205                  | Band Edge Emission           | PASS     |        |
| 15.247(d)                       | Conducted Spurious Emissions | PASS     |        |
| 15.247(b)                       | Average Output Power         | PASS     |        |
| 15.247(a)(2)                    | 6dB Bandwidth                | PASS     |        |
| 15.247(e)                       | Power Spectral Density       | PASS     |        |
| 15.203                          | Antenna Requirement          | PASS     |        |

### NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

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Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1  
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FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB ID.: CN0118

### 1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$  providing a level of confidence of approximately 95 %.

| No. | Item                         | Uncertainty               |
|-----|------------------------------|---------------------------|
| 1   | Conducted Emission Test      | $\pm 2.56\text{dB}$       |
| 2   | RF power,conducted           | $\pm 0.42\text{dB}$       |
| 3   | Spurious emissions,conducted | $\pm 2.76\text{dB}$       |
| 4   | All emissions,radiated(<1G)  | $\pm 3.65\text{dB}$       |
| 5   | All emissions,radiated(>1G)  | $\pm 4.89\text{dB}$       |
| 6   | Temperature                  | $\pm 0.5^{\circ}\text{C}$ |
| 7   | Humidity                     | $\pm 2\%$                 |
| 8   | 6dB Bandwidth                | $\pm 0.2\%$               |
| 9   | Power Spectral Density       | $\pm 2.45\text{dBm}$      |



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                        |                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------|
| Product Name:          | Tablet                                                                                          |
| Trade Mark:            | N/A                                                                                             |
| Model Number:          | CP31M<br>CP31, CP31MK                                                                           |
| Model Difference       | All models are same as the samples except model name, they have the same structure and circuit. |
| Operation Frequency:   | 2412~2462 MHz for 802.11b/g/nHT20                                                               |
| Channel numbers:       | 11 Channels for 802.11b/g/n(HT20)                                                               |
| Channel separation:    | 5MHz                                                                                            |
| Modulation technology: | 802.11b: DSSS (CCK, DQPSK, DBPSK)<br>802.11g/n(20): OFDM(QPSK, BPSK, 16-QAM, 64-QAM)            |
| Rate of Transmitter    | 802.11b: 11/5.5/2/1Mbps<br>802.11g: 54/48/36/24/18/12/9/6Mbps<br>802.11n: up to 150Mbps         |
| Antenna Type:          | Internal Antenna                                                                                |
| Antenna gain:          | 1.36dBi                                                                                         |
| Power Supply:          | DC 3.85V from battery<br>DC 5V from charger                                                     |

Note:

1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.The EUT's all information provided by client.

#### 2. Channel List(802.11b/g/nHT20)

| Channel | Frequency (GHz) | Channel | Frequency (GHz) |
|---------|-----------------|---------|-----------------|
| 01      | 2.412           | 07      | 2.442           |
| 02      | 2.417           | 08      | 2.447           |
| 03      | 2.422           | 09      | 2.452           |
| 04      | 2.427           | 10      | 2.457           |
| 05      | 2.432           | 11      | 2.462           |
| 06      | 2.437           |         |                 |



## 2.2 DESCRIPTION OF TEST MODES

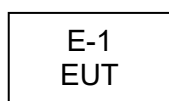
To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Modulation  | Channel |
|--------------|-------------|---------|
| Mode 1       | 802.11b     | CH01    |
| Mode 2       |             | CH06    |
| Mode 3       |             | CH11    |
| Mode 4       | 802.11g     | CH01    |
| Mode 5       |             | CH06    |
| Mode 6       |             | CH11    |
| Mode 7       | 802.11nHT20 | CH01    |
| Mode 8       |             | CH06    |
| Mode 9       |             | CH11    |

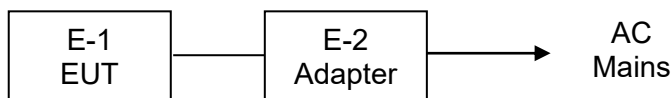
Note: (1) The measurements are performed at the highest, middle, lowest available channels.  
(2) During the test, the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.  
(3) For the two items of conducted disturbance at the power supply end and space radiation below 1GHz, all modes have undergone pre-tests. The report only shows the worst test results of mode 3.

## 2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

### Radiated Spurious Emission Test



### Power Line Conducted Emission Test





## 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Model/Type No. | Series No. | Note   |
|------|-----------|----------------|------------|--------|
| E-1  | Tablet    | CP31M          | N/A        | EUT    |
| E-2  | Adapter   | HW-0502000E    | N/A        | XIAOMI |
|      |           |                |            |        |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
|      |               |              |        |      |

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

## 2.5 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the end product.

| Max output power Setting  |                             |         |              |              |
|---------------------------|-----------------------------|---------|--------------|--------------|
| Test software Version     | Test program: Fcc_test_tool |         |              |              |
| Mode                      | 802.11b                     | 802.11g | 802.11n HT20 | 802.11n HT40 |
| Data Rate                 | 1Mbps                       | 6Mbps   | MSC0         | MSC0         |
| Power Setting of Softwave | 60                          | 60      | 60           | 66           |



## 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

### Radiation test, Band-edge test and 6db bandwidth test equipment

| Item | Equipment                        | Manufacturer    | Type No.  | Serial No. | Last calibration | Calibrated until |
|------|----------------------------------|-----------------|-----------|------------|------------------|------------------|
| 1    | Spectrum Analyzer (9kHz-26.5GHz) | Agilent         | E4408B    | MY50140780 | Nov. 01, 2024    | Oct. 31, 2025    |
| 2    | Test Receiver (9kHz-7GHz)        | R&S             | ESRP7     | 101393     | Nov. 01, 2024    | Oct. 31, 2025    |
| 3    | Bilog Antenna (30MHz-1GHz)       | R&S             | VULB9162  | 00306      | Nov. 01, 2024    | Oct. 31, 2025    |
| 4    | Horn Antenna (1GHz-18GHz)        | Schwarzbeck     | BBHA9120D | 02139      | Nov. 01, 2024    | Oct. 31, 2025    |
| 5    | Horn Antenna (18GHz-40GHz)       | A.H. Systems    | SAS-574   | 588        | Nov. 01, 2024    | Oct. 31, 2025    |
| 6    | Amplifier (9KHz-6GHz)            | Schwarzbeck     | BBV9743B  | 00153      | Nov. 01, 2024    | Oct. 31, 2025    |
| 7    | Amplifier (1GHz-18GHz)           | EMEC            | EM01G8GA  | 00270      | Nov. 01, 2024    | Oct. 31, 2025    |
| 8    | Amplifier (18GHz-40GHz)          | Quanjuda        | DLE-161   | 97         | Nov. 01, 2024    | Oct. 31, 2025    |
| 9    | Loop Antenna (9KHz-30MHz)        | Schwarzbeck     | FMZB1519B | 00014      | Nov. 01, 2024    | Oct. 31, 2025    |
| 10   | RF cables1 (9kHz-1GHz)           | ChengYu         | 966       | 004        | Nov. 01, 2024    | Oct. 31, 2025    |
| 11   | RF cables2 (1GHz-40GHz)          | ChengYu         | 966       | 003        | Nov. 01, 2024    | Oct. 31, 2025    |
| 12   | Antenna connector                | Florida RF Labs | N/A       | RF 01#     | Nov. 01, 2024    | Oct. 31, 2025    |
| 13   | Power probe                      | KEYSIGHT        | U2021XA   | MY55210018 | Nov. 01, 2024    | Oct. 31, 2025    |
| 14   | Signal Analyzer 9kHz-26.5GHz     | Agilent         | N9020A    | MY55370280 | Nov. 01, 2024    | Oct. 31, 2025    |
| 15   | Test Receiver 20kHz-40GHz        | R&S             | ESU 40    | 100376     | Nov. 01, 2024    | Oct. 31, 2025    |
| 16   | D.C. Power Supply                | LongWei         | PS-305D   | 010964729  | Nov. 01, 2024    | Oct. 31, 2025    |
| 17   | Power Meter                      | Ceyear          | 2438PA/PB | /          | Nov. 01, 2024    | Oct. 31, 2025    |
| 18   | Peak/continuous wave power probe | Ceyear          | 81702F    | /          | Nov. 01, 2024    | Oct. 31, 2025    |

### Conduction Test equipment

| Item | Equipment         | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|------------------|
| 1    | 843 Shielded Room | YIHENG       | 843 Room | 843        | Nov. 05, 2023    | Nov. 04, 2026    |
| 2    | EMI Receiver      | R&S          | ESR      | 101421     | Nov. 01, 2024    | Oct. 31, 2025    |
| 3    | LISN              | R&S          | ENV216   | 102417     | Nov. 01, 2024    | Oct. 31, 2025    |
| 4    | 843 Cable 1#      | ChengYu      | CE Cable | 001        | Nov. 01, 2024    | Oct. 31, 2025    |

### Other

| Item | Name                         | Manufacturer | Model   | Software version |
|------|------------------------------|--------------|---------|------------------|
| 1    | EMC Conduction Test System   | FALA         | EZ_EMCC | EMC-CON 3A1.1    |
| 2    | EMC radiation test system    | FALA         | EZ_EMCC | FA-03A2          |
| 3    | RF test system               | MAIWEI       | MTS8310 | 2.0.0.0          |
| 4    | RF communication test system | MAIWEI       | MTS8200 | 2.0.0.0          |





### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| FREQUENCY (MHz) | Limit (dBuV) |           | Standard |
|-----------------|--------------|-----------|----------|
|                 | Quasi-peak   | Average   |          |
| 0.15 -0.50      | 66 - 56 *    | 56 - 46 * | FCC      |
| 0.50 -5.0       | 56.00        | 46.00     | FCC      |
| 5.0 -30.0       | 60.00        | 50.00     | FCC      |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

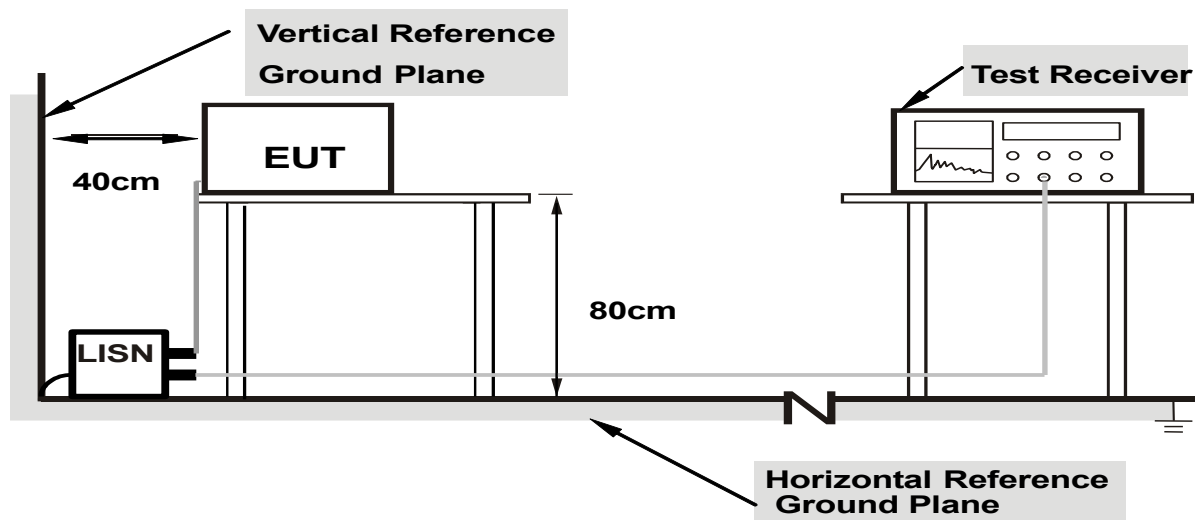
##### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

##### 3.1.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.1.4 TEST SETUP



**Note: 1.**Support units were connected to second LISN.

**2.**Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

### 3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

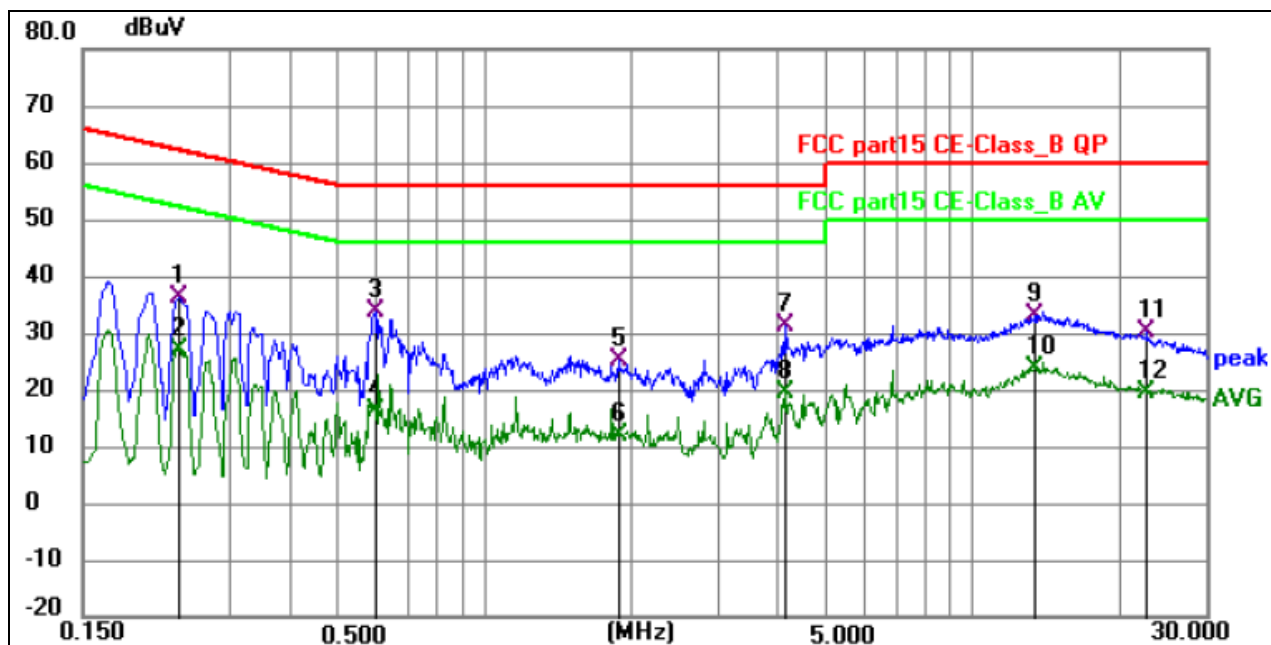
### 3.1.6 TEST RESULTS

PASS

Please refer to the following page.



|                |              |                    |        |
|----------------|--------------|--------------------|--------|
| Temperature:   | 25 °C        | Relative Humidity: | 54%    |
| Pressure:      | 1010hPa      | Phase :            | L      |
| Test Voltage : | AC 120V/60Hz | Test Mode:         | Mode 3 |



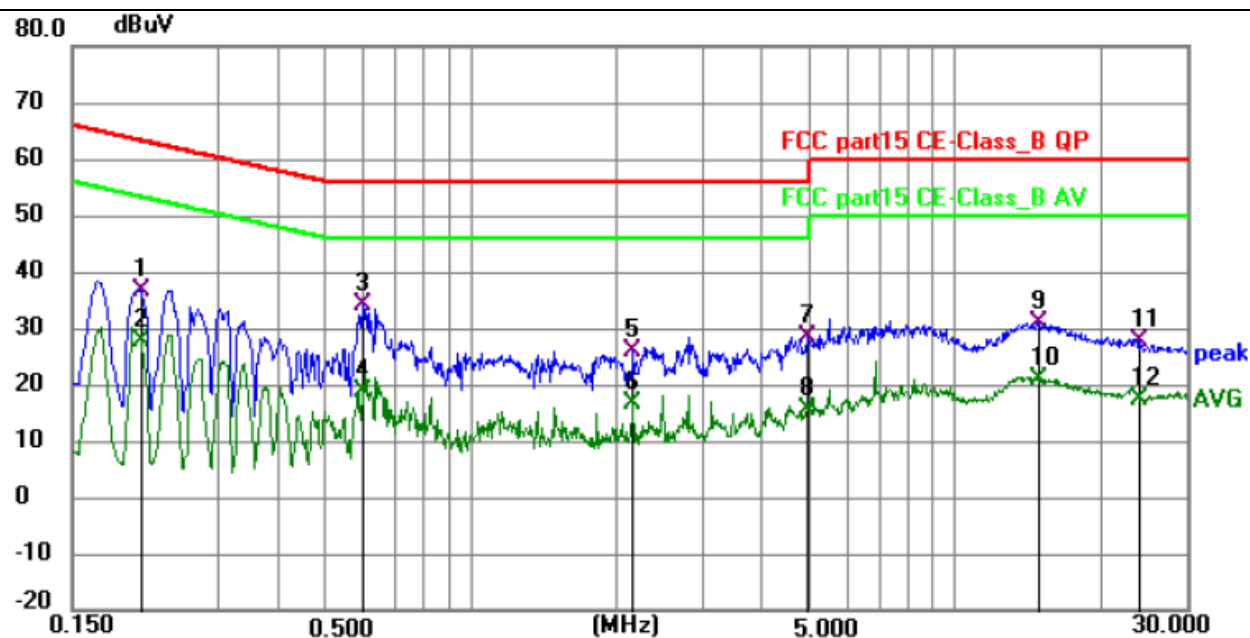
Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.2355          | 26.16          | 10.13       | 36.29        | 62.25        | -25.96      | QP       | P   |        |
| 2   | 0.2355          | 16.92          | 10.13       | 27.05        | 52.25        | -25.20      | AVG      | P   |        |
| 3 * | 0.5955          | 23.54          | 10.14       | 33.68        | 56.00        | -22.32      | QP       | P   |        |
| 4   | 0.5955          | 6.09           | 10.14       | 16.23        | 46.00        | -29.77      | AVG      | P   |        |
| 5   | 1.8780          | 15.01          | 10.07       | 25.08        | 56.00        | -30.92      | QP       | P   |        |
| 6   | 1.8780          | 1.97           | 10.07       | 12.04        | 46.00        | -33.96      | AVG      | P   |        |
| 7   | 4.1460          | 20.90          | 10.23       | 31.13        | 56.00        | -24.87      | QP       | P   |        |
| 8   | 4.1460          | 9.35           | 10.23       | 19.58        | 46.00        | -26.42      | AVG      | P   |        |
| 9   | 13.4250         | 21.48          | 11.53       | 33.01        | 60.00        | -26.99      | QP       | P   |        |
| 10  | 13.4250         | 12.35          | 11.53       | 23.88        | 50.00        | -26.12      | AVG      | P   |        |
| 11  | 22.7400         | 17.69          | 12.41       | 30.10        | 60.00        | -29.90      | QP       | P   |        |
| 12  | 22.7400         | 7.20           | 12.41       | 19.61        | 50.00        | -30.39      | AVG      | P   |        |



|                |              |                    |        |
|----------------|--------------|--------------------|--------|
| Temperature:   | 25 °C        | Relative Humidity: | 54%    |
| Pressure:      | 1010hPa      | Phase :            | N      |
| Test Voltage : | AC 120V/60Hz | Test Mode:         | Mode 3 |



Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.2085          | 26.52          | 10.17       | 36.69        | 63.26        | -26.57      | QP       | P   |        |
| 2   | 0.2085          | 17.49          | 10.17       | 27.66        | 53.26        | -25.60      | AVG      | P   |        |
| 3 * | 0.5955          | 23.95          | 10.17       | 34.12        | 56.00        | -21.88      | QP       | P   |        |
| 4   | 0.5955          | 8.64           | 10.17       | 18.81        | 46.00        | -27.19      | AVG      | P   |        |
| 5   | 2.1570          | 15.92          | 10.05       | 25.97        | 56.00        | -30.03      | QP       | P   |        |
| 6   | 2.1570          | 6.56           | 10.05       | 16.61        | 46.00        | -29.39      | AVG      | P   |        |
| 7   | 4.9560          | 18.24          | 10.31       | 28.55        | 56.00        | -27.45      | QP       | P   |        |
| 8   | 4.9560          | 5.08           | 10.31       | 15.39        | 46.00        | -30.61      | AVG      | P   |        |
| 9   | 14.9460         | 19.42          | 11.58       | 31.00        | 60.00        | -29.00      | QP       | P   |        |
| 10  | 14.9460         | 9.17           | 11.58       | 20.75        | 50.00        | -29.25      | AVG      | P   |        |
| 11  | 24.1035         | 15.23          | 12.43       | 27.66        | 60.00        | -32.34      | QP       | P   |        |
| 12  | 24.1035         | 4.98           | 12.43       | 17.41        | 50.00        | -32.59      | AVG      | P   |        |



### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies<br>(MHz) | Field Strength<br>(micorvolts/meter) | Measurement Distance<br>(meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009~0.490          | 2400/F(KHz)                          | 300                              |
| 0.490~1.705          | 24000/F(KHz)                         | 30                               |
| 1.705~30.0           | 30                                   | 30                               |
| 30~88                | 100                                  | 3                                |
| 88~216               | 150                                  | 3                                |
| 216~960              | 200                                  | 3                                |
| Above 960            | 500                                  | 3                                |

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Limit (dBuV/m) (at 3M) |         |
|-----------------|------------------------|---------|
|                 | PEAK                   | AVERAGE |
| Above 1000      | 74                     | 54      |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

| Spectrum Parameter                    | Setting                                          |
|---------------------------------------|--------------------------------------------------|
| Attenuation                           | Auto                                             |
| Start Frequency                       | 1000 MHz                                         |
| Stop Frequency                        | 25GHz                                            |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |



### 3.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre.
- Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

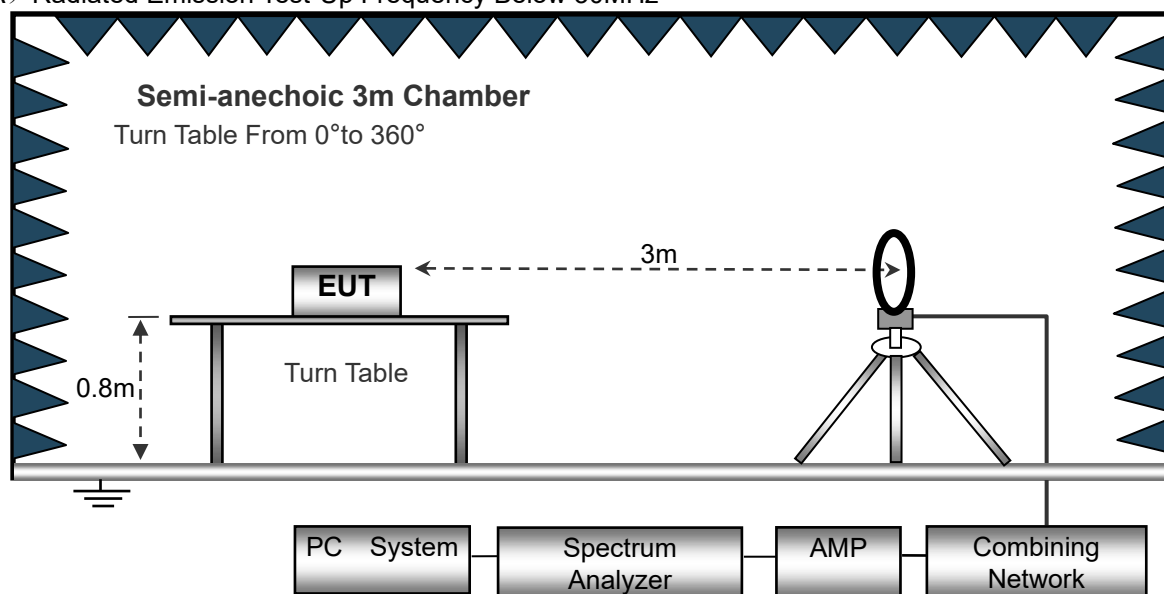
The horizontal and vertical polarities of the antenna were tested, and a pre-test was conducted on the EUT placement as three orthogonal axes X,Y,Z. The worst display of the test results was the Y-axis. The worst case emissions were reported.

### 3.2.3 DEVIATION FROM TEST STANDARD

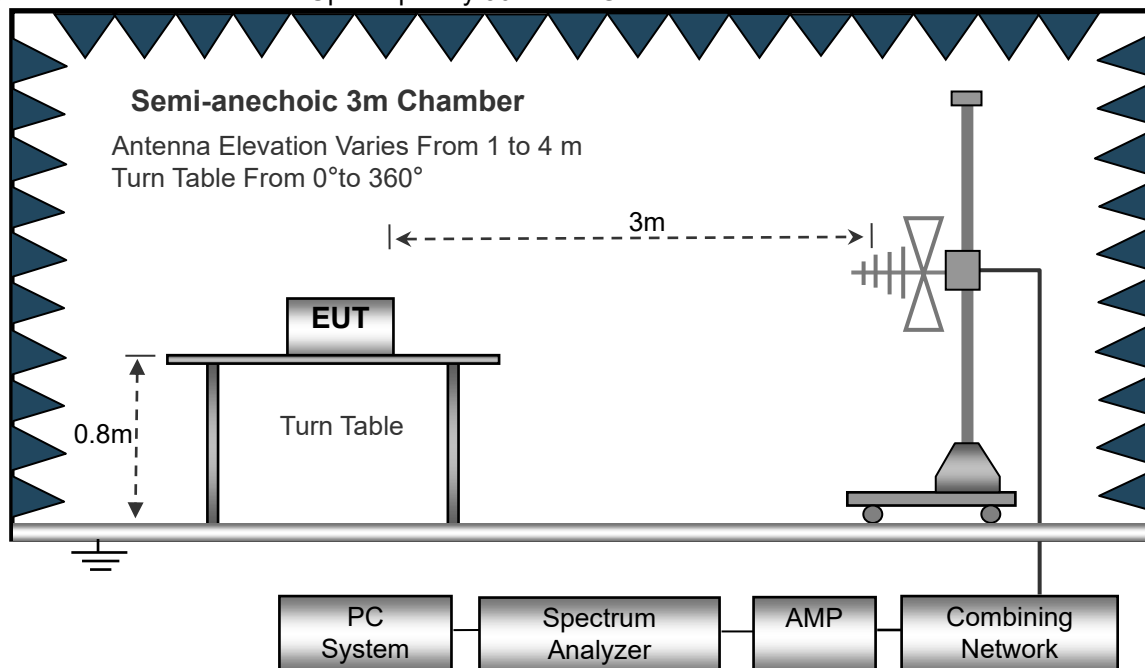
No deviation

### 3.2.4 TEST SETUP

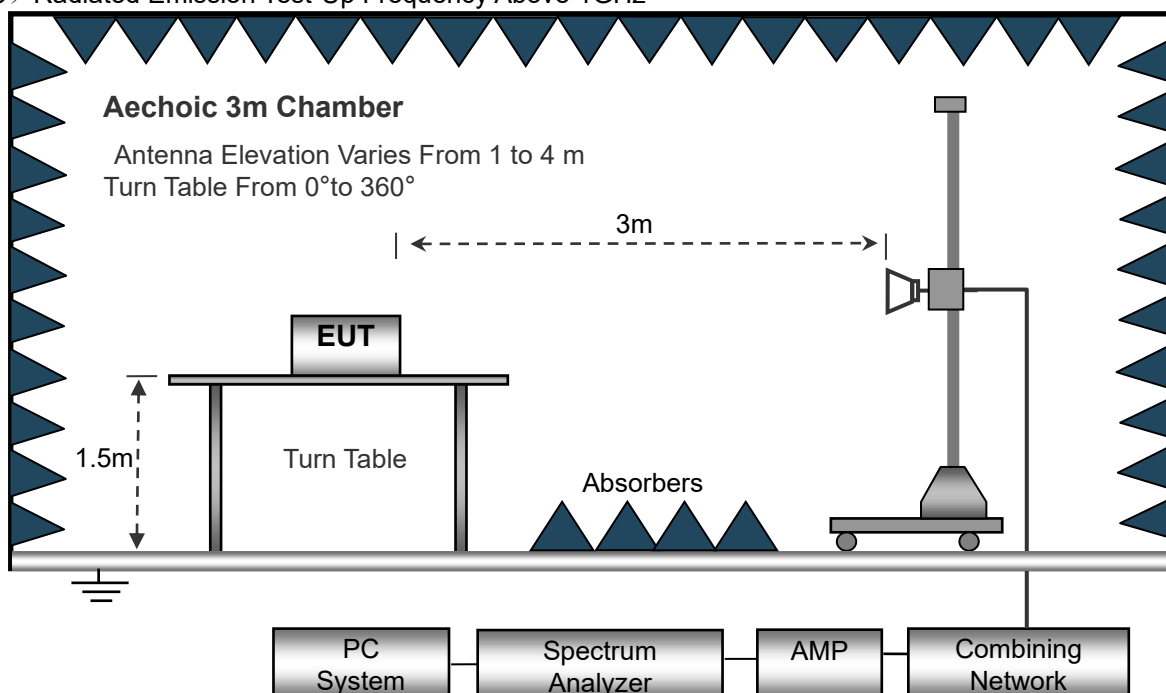
(A) Radiated Emission Test-Up Frequency Below 30MHz



### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



### (C) Radiated Emission Test-Up Frequency Above 1GHz



### 3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

**3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)**

|              |          |                    |          |
|--------------|----------|--------------------|----------|
| Temperature: | 20℃      | Relative Humidity: | 48%      |
| Pressure:    | 1010 hPa | Test Voltage :     | DC 3.85V |
| Test Mode :  | Mode 3   | Polarization :     | --       |

| Freq. | Reading  | Limit    | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB)   | P/F   |
| --    | --       | --       | --     | PASS  |
| --    | --       | --       | --     | PASS  |

**NOTE:**

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

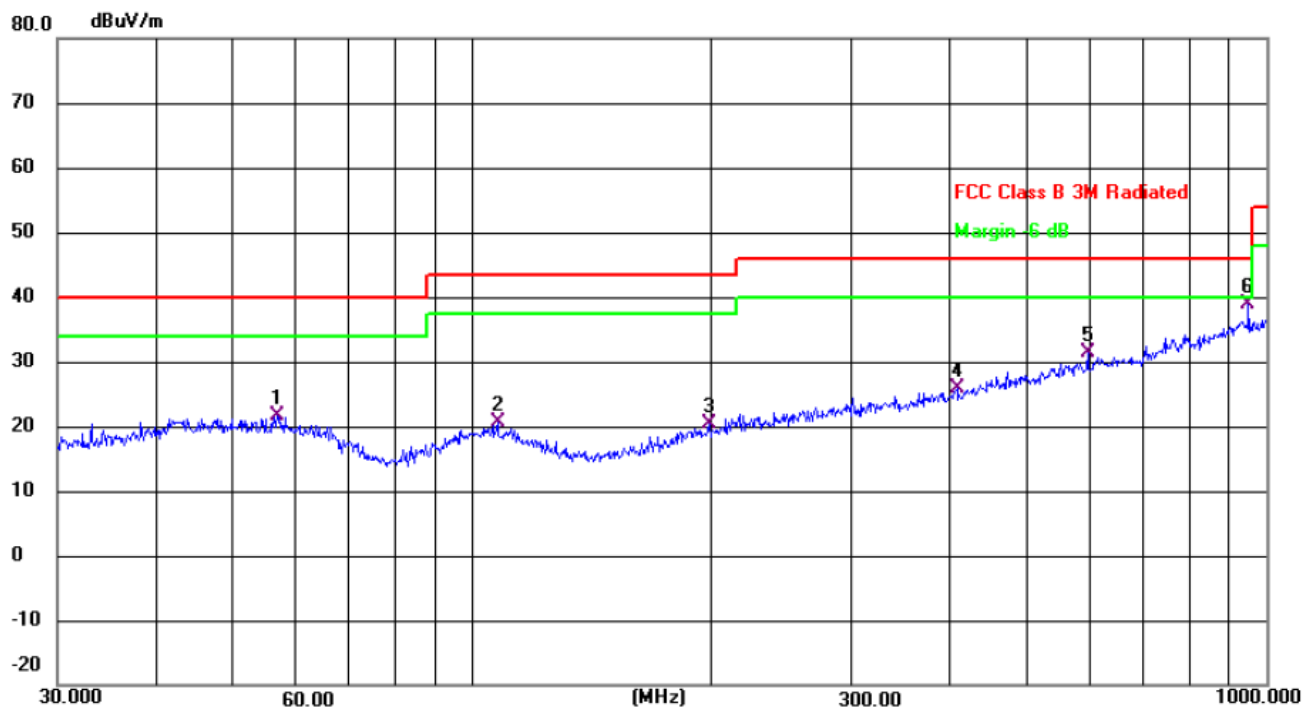
Distance extrapolation factor =  $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



**3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)**

|                |          |                    |            |
|----------------|----------|--------------------|------------|
| Temperature:   | 26℃      | Relative Humidity: | 54%        |
| Pressure:      | 1010 hPa | Polarization :     | Horizontal |
| Test Voltage : | DC 3.85V |                    |            |
| Test Mode :    | Mode 3   |                    |            |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Margin |          |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dB/m  | dB     | Detector |
| 1   |     | 56.7917  | 29.35         | -7.64          | 21.71       | 40.00 | -18.29 | QP       |
| 2   |     | 107.5101 | 29.34         | -8.83          | 20.51       | 43.50 | -22.99 | QP       |
| 3   |     | 198.5880 | 29.21         | -8.90          | 20.31       | 43.50 | -23.19 | QP       |
| 4   |     | 407.5145 | 29.62         | -3.77          | 25.85       | 46.00 | -20.15 | QP       |
| 5   |     | 595.1329 | 30.83         | 0.46           | 31.29       | 46.00 | -14.71 | QP       |
| 6   | *   | 948.7610 | 33.49         | 5.51           | 39.00       | 46.00 | -7.00  | QP       |

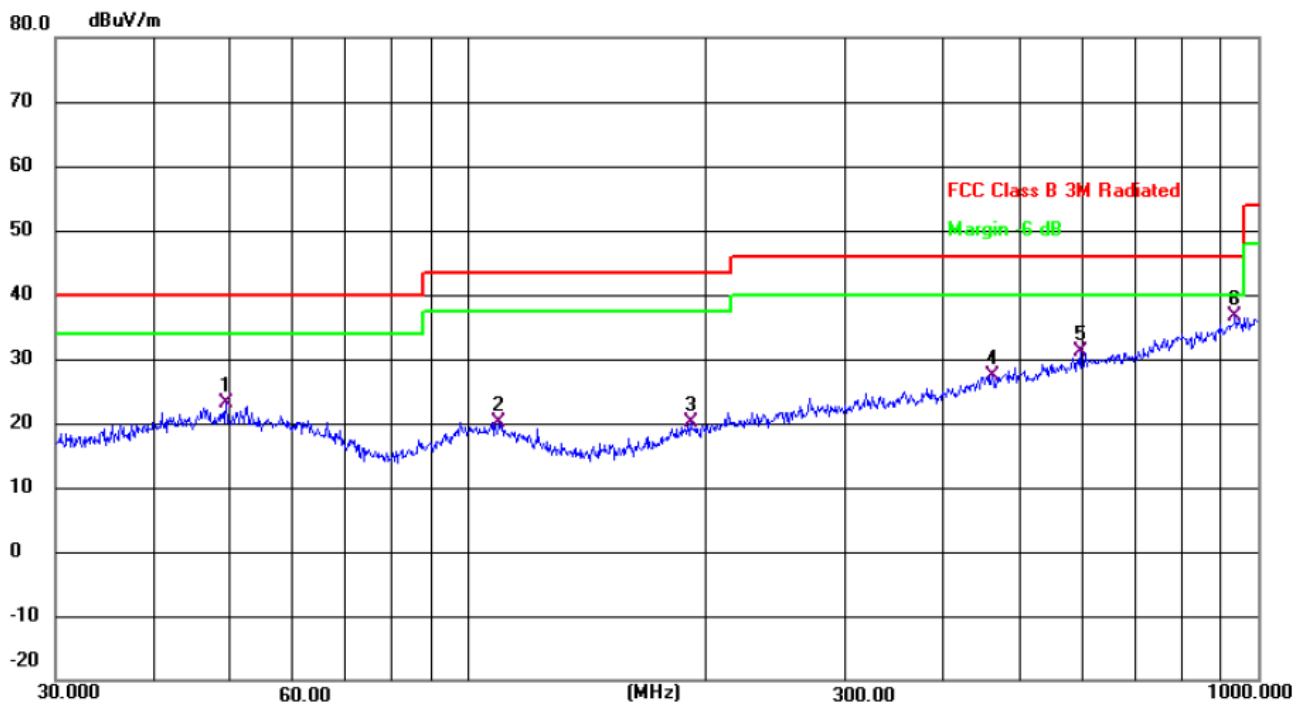
Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Limit – Level;



|                |          |                    |          |
|----------------|----------|--------------------|----------|
| Temperature:   | 26℃      | Relative Humidity: | 54%      |
| Pressure:      | 1010 hPa | Polarization :     | Vertical |
| Test Voltage : | DC 3.85V |                    |          |
| Test Mode :    | Mode 3   |                    |          |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Margin | Detector |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dB/m  | dB     |          |
| 1   |     | 49.3594  | 30.13         | -6.96          | 23.17       | 40.00 | -16.83 | QP       |
| 2   |     | 109.4116 | 29.00         | -8.81          | 20.19       | 43.50 | -23.31 | QP       |
| 3   |     | 191.0738 | 29.75         | -9.53          | 20.22       | 43.50 | -23.28 | QP       |
| 4   |     | 460.7271 | 29.62         | -2.26          | 27.36       | 46.00 | -18.64 | QP       |
| 5   |     | 595.1329 | 30.75         | 0.46           | 31.21       | 46.00 | -14.79 | QP       |
| 6   | *   | 935.5463 | 30.54         | 6.02           | 36.56       | 46.00 | -9.44  | QP       |

Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Limit – Level;

**3.2.8 TEST RESULTS (1GHZ~25GHZ)**

802.11b

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:2412 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 4824      | 67.84            | 50.65             | 6.88          | 31.29             | 55.36             | 74       | -18.64 | PK               |
| V                        | 4824      | 55.45            | 50.65             | 6.88          | 31.29             | 42.97             | 54       | -11.03 | AV               |
| V                        | 7236      | 66.52            | 49.98             | 7.16          | 36.63             | 60.33             | 74       | -13.67 | PK               |
| V                        | 7236      | 46.67            | 49.98             | 7.16          | 36.63             | 40.48             | 54       | -13.52 | AV               |
| V                        | 16087     | 48.83            | 51.53             | 11.34         | 41.52             | 50.16             | 74       | -23.84 | PK               |
| H                        | 4824      | 66.44            | 50.65             | 6.88          | 31.29             | 53.96             | 74       | -20.04 | PK               |
| H                        | 4824      | 56.02            | 50.65             | 6.88          | 31.29             | 43.54             | 54       | -10.46 | AV               |
| H                        | 7236      | 69.78            | 49.98             | 7.16          | 36.63             | 63.59             | 74       | -10.41 | PK               |
| H                        | 7236      | 46.12            | 49.98             | 7.16          | 36.63             | 39.93             | 54       | -14.07 | AV               |
| H                        | 16087     | 48.40            | 51.53             | 11.34         | 41.52             | 49.73             | 74       | -24.27 | PK               |
| operation frequency:2437 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 4874      | 68.17            | 50.67             | 6.89          | 31.38             | 55.77             | 74       | -18.23 | PK               |
| V                        | 4874      | 55.42            | 50.67             | 6.89          | 31.38             | 43.02             | 54       | -10.98 | AV               |
| V                        | 7311      | 69.73            | 50.02             | 7.24          | 36.63             | 63.58             | 74       | -10.42 | PK               |
| V                        | 7311      | 47.03            | 50.02             | 7.24          | 36.63             | 40.88             | 54       | -13.12 | AV               |
| V                        | 16087     | 48.78            | 51.53             | 11.34         | 41.52             | 50.11             | 74       | -23.89 | PK               |
| H                        | 4874      | 66.73            | 50.67             | 6.89          | 31.38             | 54.33             | 74       | -19.67 | PK               |
| H                        | 4874      | 55.31            | 50.67             | 6.89          | 31.38             | 42.91             | 54       | -11.09 | AV               |
| H                        | 7311      | 69.47            | 50.02             | 7.24          | 36.63             | 63.32             | 74       | -10.68 | PK               |
| H                        | 7311      | 48.00            | 50.02             | 7.24          | 36.63             | 41.85             | 54       | -12.15 | AV               |
| H                        | 16087     | 48.84            | 51.53             | 11.34         | 41.52             | 50.17             | 74       | -23.83 | PK               |
| operation frequency:2462 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 4924      | 67.56            | 50.79             | 6.83          | 31.36             | 54.96             | 74       | -19.04 | PK               |
| V                        | 4924      | 55.95            | 50.79             | 6.83          | 31.36             | 43.35             | 54       | -10.65 | AV               |
| V                        | 7386      | 70.03            | 50.11             | 7.25          | 36.58             | 63.75             | 74       | -10.25 | PK               |
| V                        | 7386      | 46.62            | 50.11             | 7.25          | 36.58             | 40.34             | 54       | -13.66 | AV               |
| V                        | 16087     | 48.44            | 51.53             | 11.34         | 41.52             | 49.77             | 74       | -24.23 | PK               |
| H                        | 4924      | 66.43            | 50.79             | 6.83          | 31.36             | 53.83             | 74       | -20.17 | PK               |
| H                        | 4924      | 55.76            | 50.79             | 6.83          | 31.36             | 43.16             | 54       | -10.84 | AV               |
| H                        | 7386      | 69.98            | 50.11             | 7.25          | 36.58             | 63.7              | 74       | -10.3  | PK               |
| H                        | 7386      | 47.68            | 50.11             | 7.25          | 36.58             | 41.4              | 54       | -12.6  | AV               |
| H                        | 16087     | 48.35            | 51.53             | 11.34         | 41.52             | 49.68             | 74       | -24.32 | PK               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11g

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:2412 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 4824      | 67.44            | 50.65             | 6.88          | 31.29             | 54.96             | 74       | -19.04 | PK               |
| V                        | 4824      | 55.32            | 50.65             | 6.88          | 31.29             | 42.84             | 54       | -11.16 | AV               |
| V                        | 7236      | 66.67            | 49.98             | 7.16          | 36.63             | 60.48             | 74       | -13.52 | PK               |
| V                        | 7236      | 46.17            | 49.98             | 7.16          | 36.63             | 39.98             | 54       | -14.02 | AV               |
| V                        | 16087     | 49.59            | 51.53             | 11.34         | 41.52             | 50.92             | 74       | -23.08 | PK               |
| H                        | 4824      | 69.76            | 50.65             | 6.88          | 31.29             | 57.28             | 74       | -16.72 | PK               |
| H                        | 4824      | 52.60            | 50.65             | 6.88          | 31.29             | 40.12             | 54       | -13.88 | AV               |
| H                        | 7236      | 66.51            | 49.98             | 7.16          | 36.63             | 60.32             | 74       | -13.68 | PK               |
| H                        | 7236      | 47.64            | 49.98             | 7.16          | 36.63             | 41.45             | 54       | -12.55 | AV               |
| H                        | 16087     | 47.62            | 51.53             | 11.34         | 41.52             | 48.95             | 74       | -25.05 | PK               |
| operation frequency:2437 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 4874      | 67.33            | 50.67             | 6.89          | 31.38             | 54.93             | 74       | -19.07 | PK               |
| V                        | 4874      | 55.90            | 50.67             | 6.89          | 31.38             | 43.5              | 54       | -10.5  | AV               |
| V                        | 7311      | 66.56            | 50.02             | 7.24          | 36.63             | 60.41             | 74       | -13.59 | PK               |
| V                        | 7311      | 46.32            | 50.02             | 7.24          | 36.63             | 40.17             | 54       | -13.83 | AV               |
| V                        | 16087     | 48.58            | 51.53             | 11.34         | 41.52             | 49.91             | 74       | -24.09 | PK               |
| H                        | 4874      | 66.91            | 50.67             | 6.89          | 31.38             | 54.51             | 74       | -19.49 | PK               |
| H                        | 4874      | 55.87            | 50.67             | 6.89          | 31.38             | 43.47             | 54       | -10.53 | AV               |
| H                        | 7311      | 65.59            | 50.02             | 7.24          | 36.63             | 59.44             | 74       | -14.56 | PK               |
| H                        | 7311      | 47.89            | 50.02             | 7.24          | 36.63             | 41.74             | 54       | -12.26 | AV               |
| H                        | 16087     | 48.93            | 51.53             | 11.34         | 41.52             | 50.26             | 74       | -23.74 | PK               |
| operation frequency:2462 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 4924      | 67.53            | 50.79             | 6.83          | 31.36             | 54.93             | 74       | -19.07 | PK               |
| V                        | 4924      | 55.54            | 50.79             | 6.83          | 31.36             | 42.94             | 54       | -11.06 | AV               |
| V                        | 7386      | 66.14            | 50.11             | 7.25          | 36.58             | 59.86             | 74       | -14.14 | PK               |
| V                        | 7386      | 47.56            | 50.11             | 7.25          | 36.58             | 41.28             | 54       | -12.72 | AV               |
| V                        | 16087     | 46.21            | 51.53             | 11.34         | 41.52             | 47.54             | 74       | -26.46 | PK               |
| H                        | 4924      | 66.53            | 50.79             | 6.83          | 31.36             | 53.93             | 74       | -20.07 | PK               |
| H                        | 4924      | 54.46            | 50.79             | 6.83          | 31.36             | 41.86             | 54       | -12.14 | AV               |
| H                        | 7386      | 65.43            | 50.11             | 7.25          | 36.58             | 59.15             | 74       | -14.85 | PK               |
| H                        | 7386      | 45.80            | 50.11             | 7.25          | 36.58             | 39.52             | 54       | -14.48 | AV               |
| H                        | 16087     | 47.27            | 51.53             | 11.34         | 41.52             | 48.6              | 74       | -25.4  | PK               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n HT20

| Polar<br>(H/V)           | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Pre-<br>amplifier<br>(dB) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------------|--------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------------------------|--------------------|----------------|------------------|
| operation frequency:2412 |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                        | 4824               | 66.82                      | 50.65                     | 6.88                  | 31.29                       | 54.34                         | 74                 | -19.66         | PK               |
| V                        | 4824               | 55.64                      | 50.65                     | 6.88                  | 31.29                       | 43.16                         | 54                 | -10.84         | AV               |
| V                        | 7236               | 67.08                      | 49.98                     | 7.16                  | 36.63                       | 60.89                         | 74                 | -13.11         | PK               |
| V                        | 7236               | 47.16                      | 49.98                     | 7.16                  | 36.63                       | 40.97                         | 54                 | -13.03         | AV               |
| V                        | 16087              | 47.18                      | 51.53                     | 11.34                 | 41.52                       | 48.51                         | 74                 | -25.49         | PK               |
| H                        | 4824               | 67.03                      | 50.65                     | 6.88                  | 31.29                       | 54.55                         | 74                 | -19.45         | PK               |
| H                        | 4824               | 55.64                      | 50.65                     | 6.88                  | 31.29                       | 43.16                         | 54                 | -10.84         | AV               |
| H                        | 7236               | 64.99                      | 49.98                     | 7.16                  | 36.63                       | 58.8                          | 74                 | -15.2          | PK               |
| H                        | 7236               | 48.18                      | 49.98                     | 7.16                  | 36.63                       | 41.99                         | 54                 | -12.01         | AV               |
| H                        | 16087              | 47.69                      | 51.53                     | 11.34                 | 41.52                       | 49.02                         | 74                 | -24.98         | PK               |
| operation frequency:2437 |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                        | 4874               | 66.89                      | 50.67                     | 6.89                  | 31.38                       | 54.49                         | 74                 | -19.51         | PK               |
| V                        | 4874               | 54.85                      | 50.67                     | 6.89                  | 31.38                       | 42.45                         | 54                 | -11.55         | AV               |
| V                        | 7311               | 66.10                      | 50.02                     | 7.24                  | 36.63                       | 59.95                         | 74                 | -14.05         | PK               |
| V                        | 7311               | 47.91                      | 50.02                     | 7.24                  | 36.63                       | 41.76                         | 54                 | -12.24         | AV               |
| V                        | 16087              | 48.23                      | 51.53                     | 11.34                 | 41.52                       | 49.56                         | 74                 | -24.44         | PK               |
| H                        | 4874               | 66.34                      | 50.67                     | 6.89                  | 31.38                       | 53.94                         | 74                 | -20.06         | PK               |
| H                        | 4874               | 53.99                      | 50.67                     | 6.89                  | 31.38                       | 41.59                         | 54                 | -12.41         | AV               |
| H                        | 7311               | 66.09                      | 50.02                     | 7.24                  | 36.63                       | 59.94                         | 74                 | -14.06         | PK               |
| H                        | 7311               | 47.22                      | 50.02                     | 7.24                  | 36.63                       | 41.07                         | 54                 | -12.93         | AV               |
| H                        | 16087              | 46.58                      | 51.53                     | 11.34                 | 41.52                       | 47.91                         | 74                 | -26.09         | PK               |
| operation frequency:2462 |                    |                            |                           |                       |                             |                               |                    |                |                  |
| V                        | 4924               | 67.26                      | 50.79                     | 6.83                  | 31.36                       | 54.66                         | 74                 | -19.34         | PK               |
| V                        | 4924               | 54.75                      | 50.79                     | 6.83                  | 31.36                       | 42.15                         | 54                 | -11.85         | AV               |
| V                        | 7386               | 64.43                      | 50.11                     | 7.25                  | 36.58                       | 58.15                         | 74                 | -15.85         | PK               |
| V                        | 7386               | 46.42                      | 50.11                     | 7.25                  | 36.58                       | 40.14                         | 54                 | -13.86         | AV               |
| V                        | 16087              | 48.55                      | 51.53                     | 11.34                 | 41.52                       | 49.88                         | 74                 | -24.12         | PK               |
| H                        | 4924               | 67.45                      | 50.79                     | 6.83                  | 31.36                       | 54.85                         | 74                 | -19.15         | PK               |
| H                        | 4924               | 54.16                      | 50.79                     | 6.83                  | 31.36                       | 41.56                         | 54                 | -12.44         | AV               |
| H                        | 7386               | 65.10                      | 50.11                     | 7.25                  | 36.58                       | 58.82                         | 74                 | -15.18         | PK               |
| H                        | 7386               | 47.57                      | 50.11                     | 7.25                  | 36.58                       | 41.29                         | 54                 | -12.71         | AV               |
| H                        | 16087              | 47.28                      | 51.53                     | 11.34                 | 41.52                       | 48.61                         | 74                 | -25.39         | PK               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



### 3.3 RADIATED BAND EMISSION MEASUREMENT

#### 3.3.1 TEST REQUIREMENT:

FCC Part15 C Section 15.209 and 15.205

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Limit (dBuV/m) (at 3M) |         |
|-----------------|------------------------|---------|
|                 | PEAK                   | AVERAGE |
| Above 1000      | 74                     | 54      |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

| Spectrum Parameter                    | Setting                                          |
|---------------------------------------|--------------------------------------------------|
| Attenuation                           | Auto                                             |
| Start Frequency                       | 2300MHz                                          |
| Stop Frequency                        | 2520                                             |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

#### 3.3.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel,the Highest channel

Note:

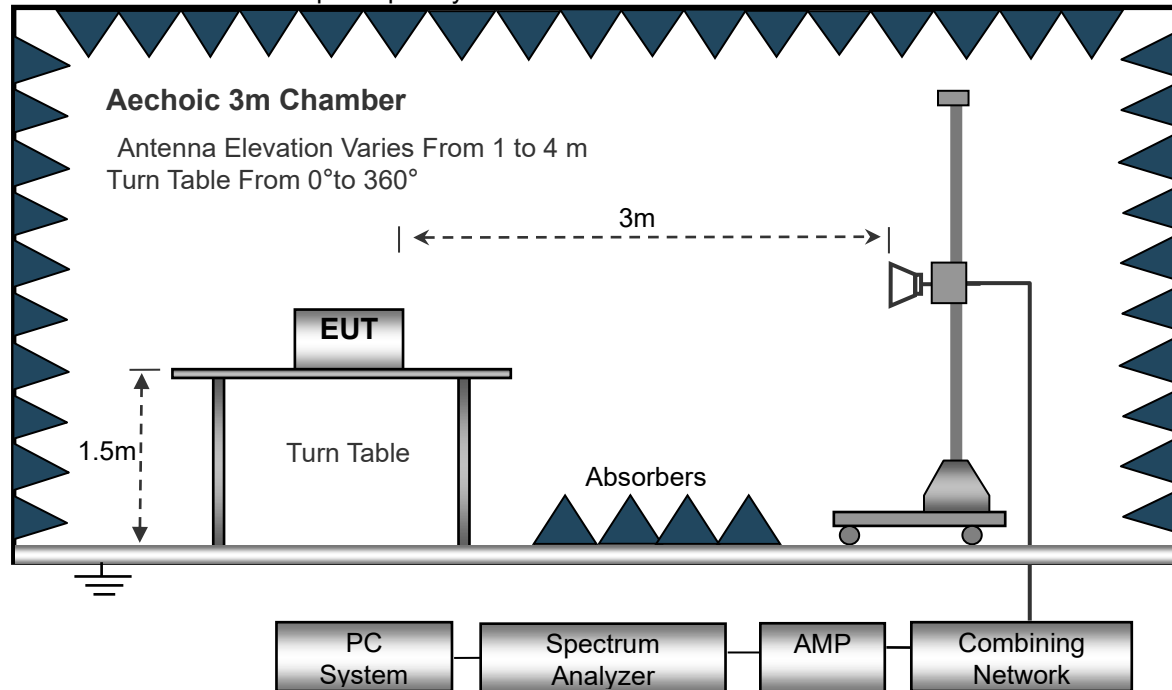
The horizontal and vertical polarities of the antenna were tested, and a pre-test was conducted on the EUT placement as three orthogonal axes X,Y,Z. The worst display of the test results was the Y-axis. The worst case emissions were reported.

#### 3.3.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.3.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



### 3.3.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



### 3.3.6 TEST RESULT

802.11b

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:2412 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 2310      | 77.61            | 52.12             | 2.73          | 27.38             | 55.6              | 74       | -18.4  | PK               |
| V                        | 2310      | 66.20            | 52.12             | 2.73          | 27.38             | 44.19             | 54       | -9.81  | AV               |
| V                        | 2390      | 77.21            | 52.16             | 2.78          | 27.41             | 55.24             | 74       | -18.76 | PK               |
| V                        | 2390      | 65.56            | 52.16             | 2.78          | 27.41             | 43.59             | 54       | -10.41 | AV               |
| H                        | 2310      | 77.98            | 52.12             | 2.73          | 27.38             | 55.97             | 74       | -18.03 | PK               |
| H                        | 2310      | 65.97            | 52.12             | 2.73          | 27.38             | 43.96             | 54       | -10.04 | AV               |
| H                        | 2390      | 77.24            | 52.16             | 2.78          | 27.41             | 55.27             | 74       | -18.73 | PK               |
| H                        | 2390      | 67.16            | 52.16             | 2.78          | 27.41             | 45.19             | 54       | -8.81  | AV               |

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:2462 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 2483.5    | 77.15            | 52.23             | 2.86          | 27.44             | 55.22             | 74       | -18.78 | PK               |
| V                        | 2483.5    | 64.95            | 52.23             | 2.86          | 27.44             | 43.02             | 54       | -10.98 | AV               |
| V                        | 2500      | 75.88            | 52.26             | 2.88          | 27.49             | 53.99             | 74       | -20.01 | PK               |
| V                        | 2500      | 65.34            | 52.26             | 2.88          | 27.49             | 43.45             | 54       | -10.55 | AV               |
| H                        | 2483.5    | 76.48            | 52.23             | 2.86          | 27.44             | 54.55             | 74       | -19.45 | PK               |
| H                        | 2483.5    | 65.92            | 52.23             | 2.86          | 27.44             | 43.99             | 54       | -10.01 | AV               |
| H                        | 2500      | 77.98            | 52.26             | 2.88          | 27.49             | 56.09             | 74       | -17.91 | PK               |
| H                        | 2500      | 66.85            | 52.26             | 2.88          | 27.49             | 44.96             | 54       | -9.04  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.





802.11g

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:2412 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 2310      | 76.79            | 52.12             | 2.73          | 27.38             | 54.78             | 74       | -19.22 | PK               |
| V                        | 2310      | 65.79            | 52.12             | 2.73          | 27.38             | 43.78             | 54       | -10.22 | AV               |
| V                        | 2390      | 77.08            | 52.16             | 2.78          | 27.41             | 55.11             | 74       | -18.89 | PK               |
| V                        | 2390      | 65.08            | 52.16             | 2.78          | 27.41             | 43.11             | 54       | -10.89 | AV               |
| H                        | 2310      | 76.50            | 52.12             | 2.73          | 27.38             | 54.49             | 74       | -19.51 | PK               |
| H                        | 2310      | 65.47            | 52.12             | 2.73          | 27.38             | 43.46             | 54       | -10.54 | AV               |
| H                        | 2390      | 76.85            | 52.16             | 2.78          | 27.41             | 54.88             | 74       | -19.12 | PK               |
| H                        | 2390      | 65.86            | 52.16             | 2.78          | 27.41             | 43.89             | 54       | -10.11 | AV               |

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:2462 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 2483.5    | 77.02            | 52.23             | 2.86          | 27.44             | 55.09             | 74       | -18.91 | PK               |
| V                        | 2483.5    | 65.44            | 52.23             | 2.86          | 27.44             | 43.51             | 54       | -10.49 | AV               |
| V                        | 2500      | 76.80            | 52.26             | 2.88          | 27.49             | 54.91             | 74       | -19.09 | PK               |
| V                        | 2500      | 65.81            | 52.26             | 2.88          | 27.49             | 43.92             | 54       | -10.08 | AV               |
| H                        | 2483.5    | 76.62            | 52.23             | 2.86          | 27.44             | 54.69             | 74       | -19.31 | PK               |
| H                        | 2483.5    | 65.79            | 52.23             | 2.86          | 27.44             | 43.86             | 54       | -10.14 | AV               |
| H                        | 2500      | 77.13            | 52.26             | 2.88          | 27.49             | 55.24             | 74       | -18.76 | PK               |
| H                        | 2500      | 65.44            | 52.26             | 2.88          | 27.49             | 43.55             | 54       | -10.45 | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n HT20

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:2412 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 2310      | 76.63            | 52.12             | 2.73          | 27.38             | 54.62             | 74       | -19.38 | PK               |
| V                        | 2310      | 65.75            | 52.12             | 2.73          | 27.38             | 43.74             | 54       | -10.26 | AV               |
| V                        | 2390      | 78.08            | 52.16             | 2.78          | 27.41             | 56.11             | 74       | -17.89 | PK               |
| V                        | 2390      | 65.89            | 52.16             | 2.78          | 27.41             | 43.92             | 54       | -10.08 | AV               |
| H                        | 2310      | 78.15            | 52.12             | 2.73          | 27.38             | 56.14             | 74       | -17.86 | PK               |
| H                        | 2310      | 65.64            | 52.12             | 2.73          | 27.38             | 43.63             | 54       | -10.37 | AV               |
| H                        | 2390      | 76.53            | 52.16             | 2.78          | 27.41             | 54.56             | 74       | -19.44 | PK               |
| H                        | 2390      | 65.75            | 52.16             | 2.78          | 27.41             | 43.78             | 54       | -10.22 | AV               |

| Polar<br>(H/V)           | Frequency | Meter<br>Reading | Pre-<br>amplifier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|--------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                          | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| operation frequency:2462 |           |                  |                   |               |                   |                   |          |        |                  |
| V                        | 2483.5    | 77.36            | 52.23             | 2.86          | 27.44             | 55.43             | 74       | -18.57 | PK               |
| V                        | 2483.5    | 65.99            | 52.23             | 2.86          | 27.44             | 44.06             | 54       | -9.94  | AV               |
| V                        | 2500      | 76.96            | 52.26             | 2.88          | 27.49             | 55.07             | 74       | -18.93 | PK               |
| V                        | 2500      | 65.34            | 52.26             | 2.88          | 27.49             | 43.45             | 54       | -10.55 | AV               |
| H                        | 2483.5    | 77.73            | 52.23             | 2.86          | 27.44             | 55.8              | 74       | -18.2  | PK               |
| H                        | 2483.5    | 65.75            | 52.23             | 2.86          | 27.44             | 43.82             | 54       | -10.18 | AV               |
| H                        | 2500      | 76.99            | 52.26             | 2.88          | 27.49             | 55.1              | 74       | -18.9  | PK               |
| H                        | 2500      | 66.94            | 52.26             | 2.88          | 27.49             | 45.05             | 54       | -8.95  | AV               |

**Remark:**

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,  
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

**3.4 CONDUCTED BAND EDGE EMISSION&CONDUCTED SPURIOUS EMISSIONS MEASUREMENT**



|                          |                                          |
|--------------------------|------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (d)          |
| <b>Test Method:</b>      | KDB558074 D0115.247 Meas Guidance v05r02 |

### 3.4.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in§15.205(a), must also comply with the radiated emission limits specified in15.209(a).

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

### 3.4.2 TEST PROCEDURE

Using the following spectrum analyzer setting:

Set the RBW = 100KHz.

Set the VBW = 300KHz.

Sweep time = auto couple.

Detector function = Peak.

Trace mode = max hold.

Allow trace to fully stabilize.

Establish a reference level by using the following procedure:

a) Set instrument center frequency to DTS channel center frequency.

b) Set the span to  $\geq 1.5$  times the DTS bandwidth.

c) Set the RBW=100 kHz.

d) Set the VBW $\geq [3 \times \text{RBW}]$ .

e) Detector =peak.

f)Sweep time= auto couple.

g) Trace mode=max hold.

h)Allow trace to fully stabilize.

i) 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.

### 3.4.3 DEVIATION FROM STANDARD

No deviation.

### 3.4.4 TEST SETUP



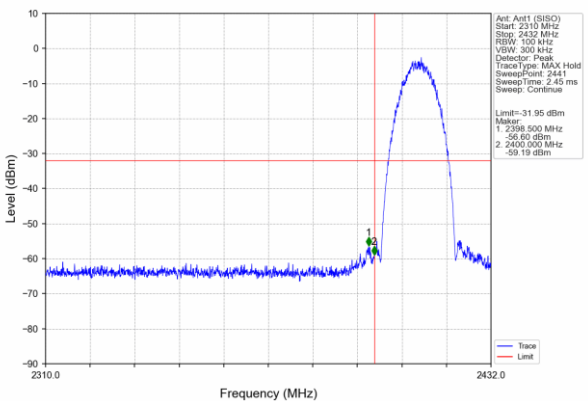
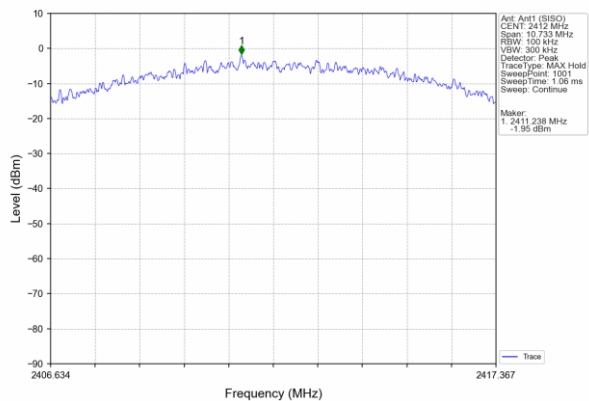
### 3.4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

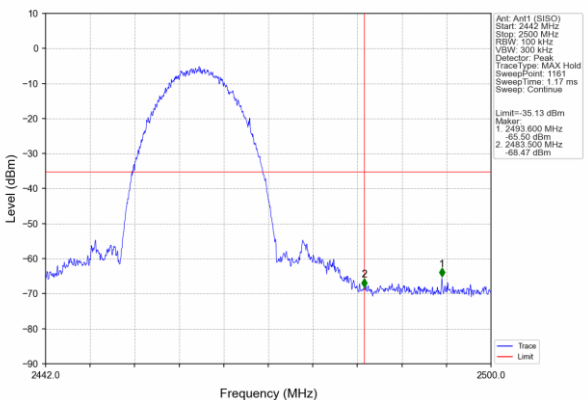
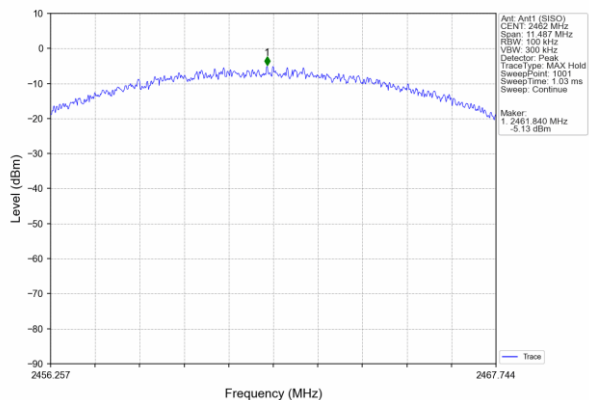
### 3.4.6 TEST RESULTS



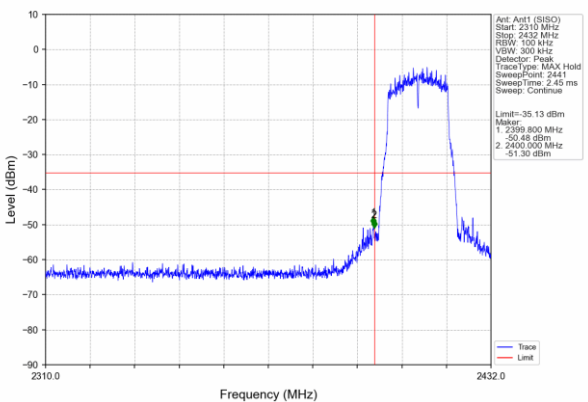
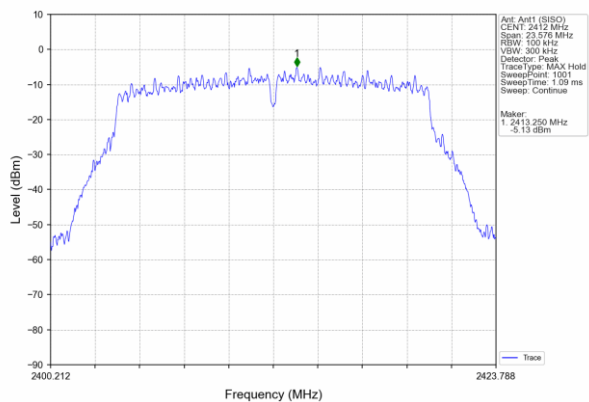
For Conducted  
802.11b 2412MHz



802.11b 2462MHz

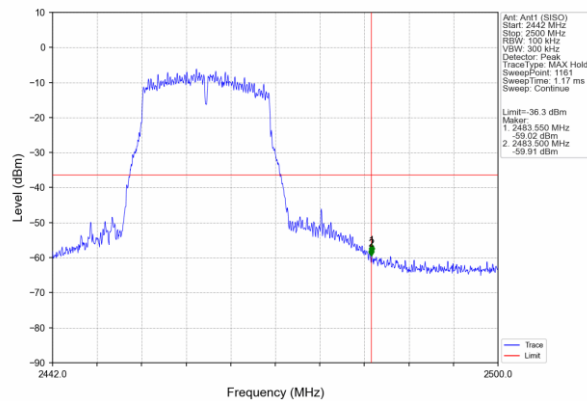
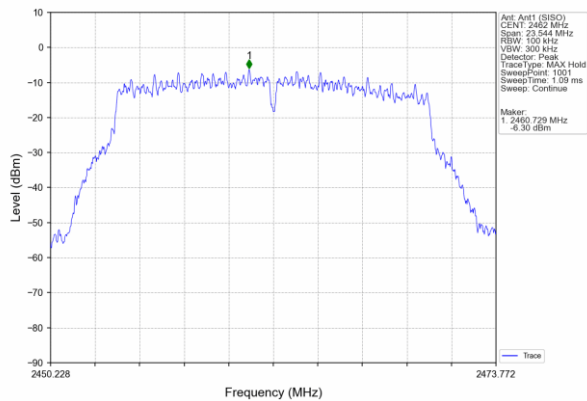


802.11g 2412MHz

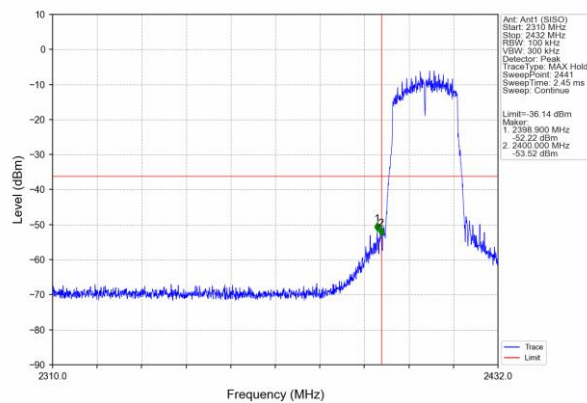
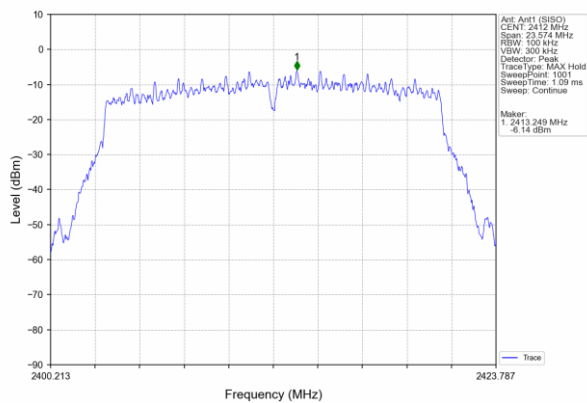




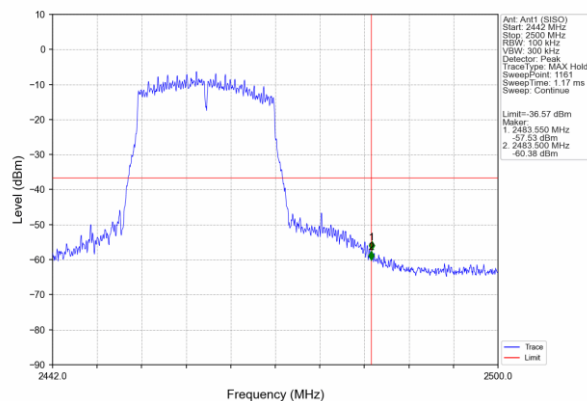
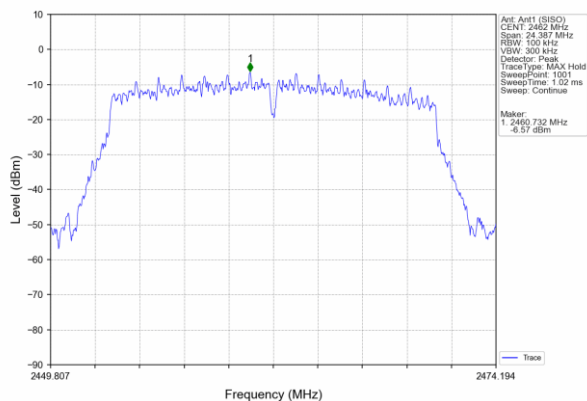
802.11g 2462MHz



802.11n 20 2412MHz



802.11n20 2462MHz

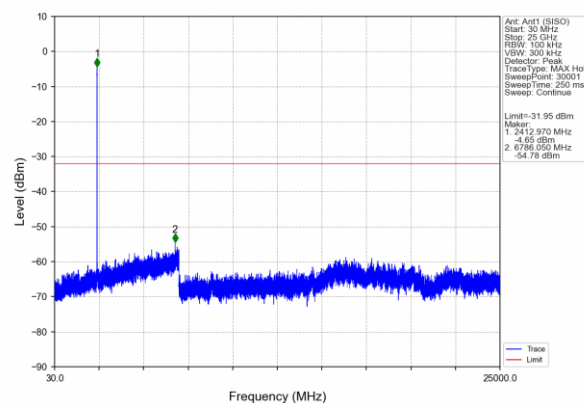
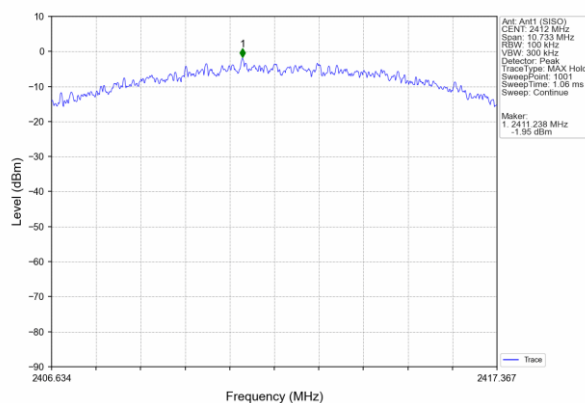




For Conducted

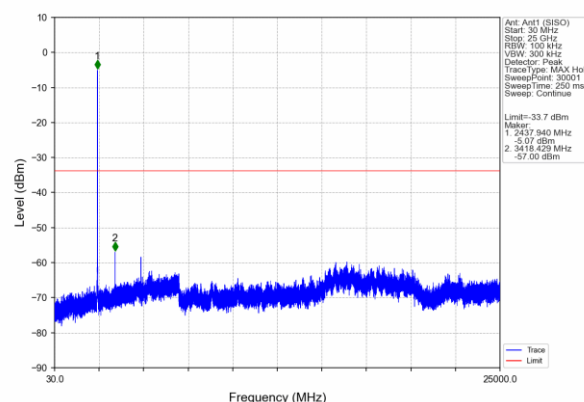
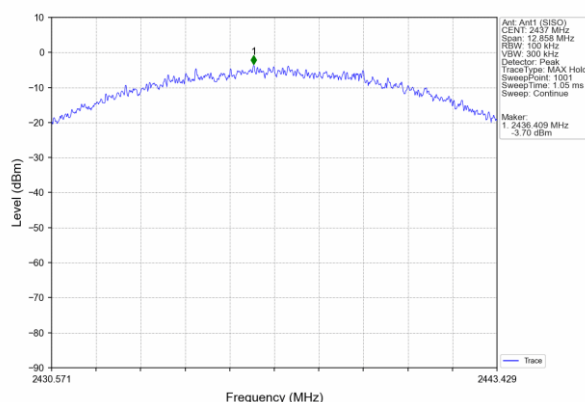
During the test, pre-scan the all modulation, and found the 802.11b mode which it is worse case.

| Test channel: | Lowest channel |
|---------------|----------------|
|---------------|----------------|



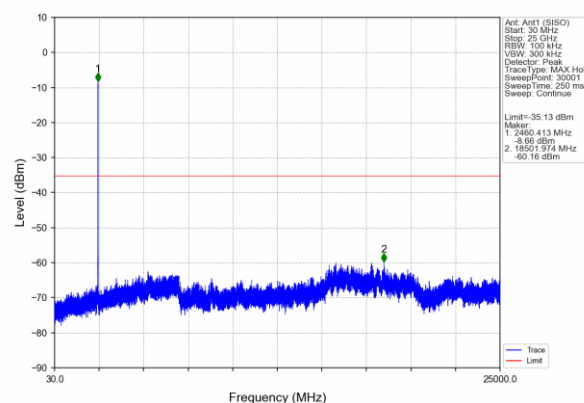
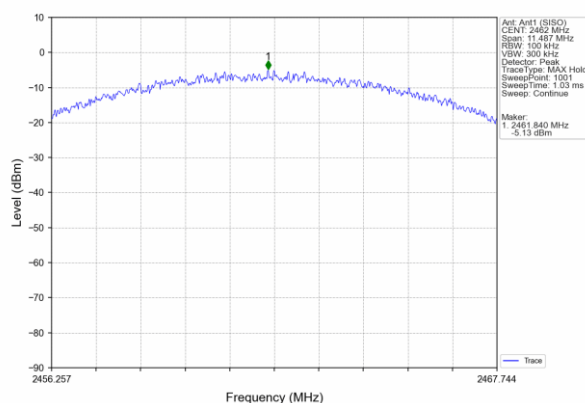
0.03GHz~26.5GHz

| Test channel: | Middle channel |
|---------------|----------------|
|---------------|----------------|



0.03GHz~26.5GHz

| Test channel: | Highest channel |
|---------------|-----------------|
|---------------|-----------------|



0.03GHz~26.5GHz



#### 4. AVERAGE OUTPUT POWER

##### 4.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |                      |                 |                       |        |
|---------------------------------|----------------------|-----------------|-----------------------|--------|
| Section                         | Test Item            | Limit           | Frequency Range (MHz) | Result |
| 15.247 (b)(3)                   | Average Output Power | 1 watt or 30dBm | 2400-2483.5           | PASS   |

##### 4.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Set span to at least 1.5 times the OBW.
- Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
- Set VBW  $\geq [3 \times \text{RBW}]$ .
- Number of points in sweep  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- If transmit duty cycle < 98%, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle  $\geq 98\%$ , and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
- Trace average at least 100 traces in power averaging (rms) mode.
- Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

##### 4.1.2 DEVIATION FROM STANDARD

No deviation.

##### 4.1.3 TEST SETUP



##### 4.1.4 EUT OPERATION CONDITIONS

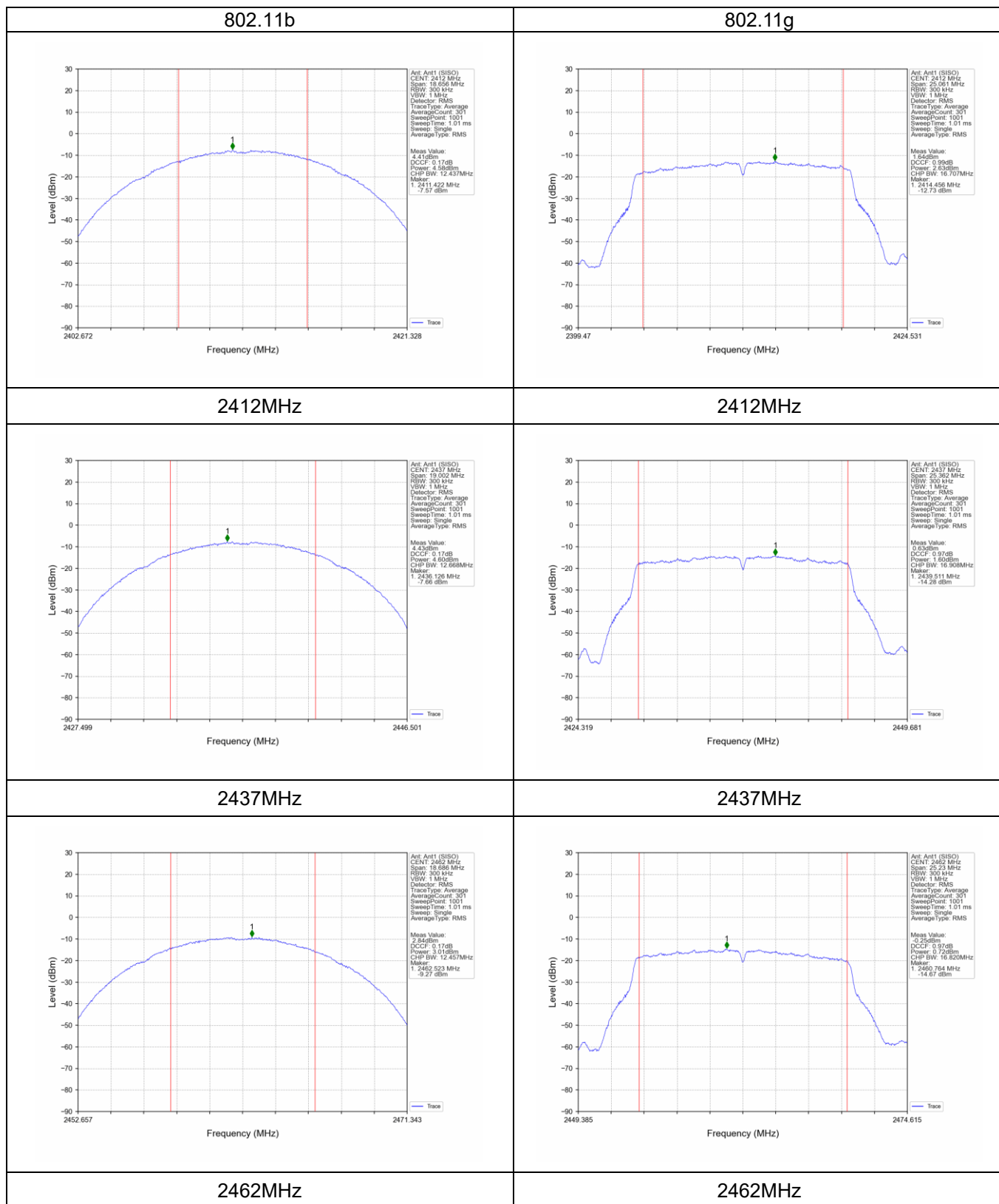
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**4.1.5 TEST RESULTS**

|              |          |                    |          |
|--------------|----------|--------------------|----------|
| Temperature: | 25 °C    | Relative Humidity: | 60%      |
| Pressure:    | 1012 hPa | Test Voltage :     | DC 3.85V |

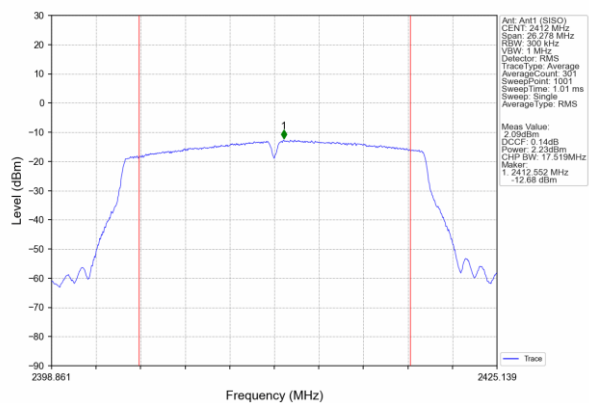
| Mode         | Test Channel | Average Output Power (dBm) | LIMIT (dBm) |
|--------------|--------------|----------------------------|-------------|
| 802.11b      | Low          | 4.58                       | 30.00       |
|              | Middle       | 4.60                       | 30.00       |
|              | High         | 3.01                       | 30.00       |
| 802.11g      | Low          | 2.63                       | 30.00       |
|              | Middle       | 1.60                       | 30.00       |
|              | High         | 0.72                       | 30.00       |
| 802.11n HT20 | Low          | 2.23                       | 30.00       |
|              | Middle       | 2.52                       | 30.00       |
|              | High         | 1.00                       | 30.00       |



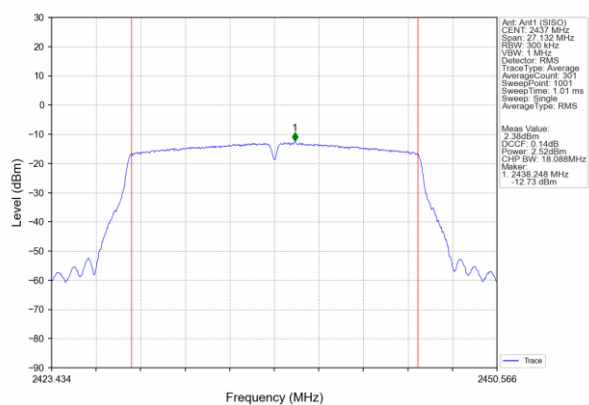




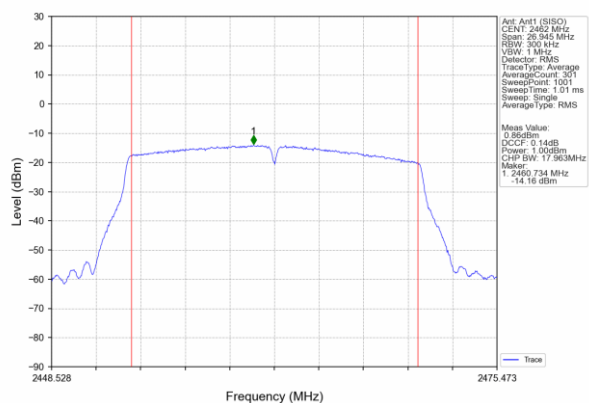
## 802.11n HT20



## 2412MHz



## 2437MHz



## 2462MHz



## 5. POWER SPECTRAL DENSITY TEST

### 5.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |                        |                        |                       |        |
|---------------------------------|------------------------|------------------------|-----------------------|--------|
| Section                         | Test Item              | Limit                  | Frequency Range (MHz) | Result |
| 15.247                          | Power Spectral Density | 8 dBm<br>(in any 3KHz) | 2400-2483.5           | PASS   |

| Spectrum Parameters | Setting                                                            |
|---------------------|--------------------------------------------------------------------|
| Attenuation         | Auto                                                               |
| Span Frequency      | = the frequency band of operation                                  |
| RB                  | $RBW \geq 3kHz$                                                    |
| VB                  | $VBW \geq 3RBW$                                                    |
| Detector            | power averaging (rms) or sample detector (when rms not available). |
| Trace               | rms/average                                                        |
| Sweep Time          | Auto                                                               |

#### 5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP

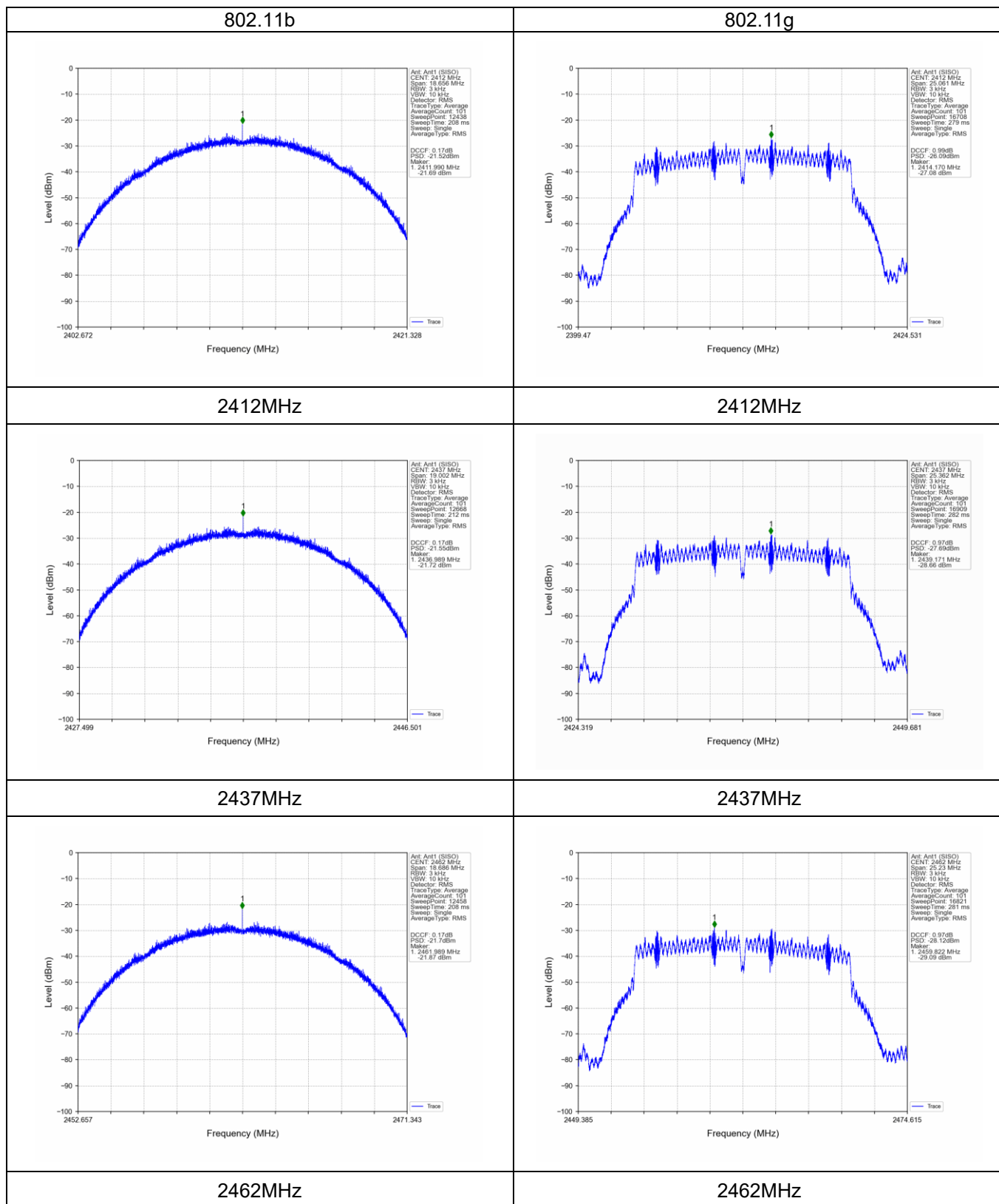


#### 5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

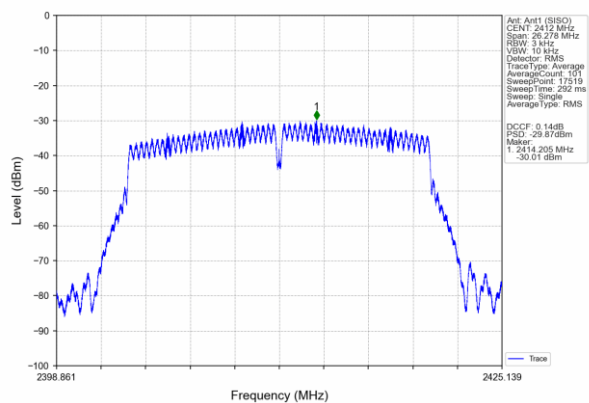
**5.1.5 TEST RESULTS**

| Mode      | Test Channel | Test Result (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|-----------|--------------|------------------------|------------------|--------|
| 802.11b   | Low          | -21.52                 | 8                | PASS   |
|           | Middle       | -21.55                 | 8                | PASS   |
|           | High         | -21.70                 | 8                | PASS   |
| 802.11g   | Low          | -26.09                 | 8                | PASS   |
|           | Middle       | -27.69                 | 8                | PASS   |
|           | High         | -28.12                 | 8                | PASS   |
| 802.11n20 | Low          | -29.87                 | 8                | PASS   |
|           | Middle       | -30.06                 | 8                | PASS   |
|           | High         | -31.88                 | 8                | PASS   |

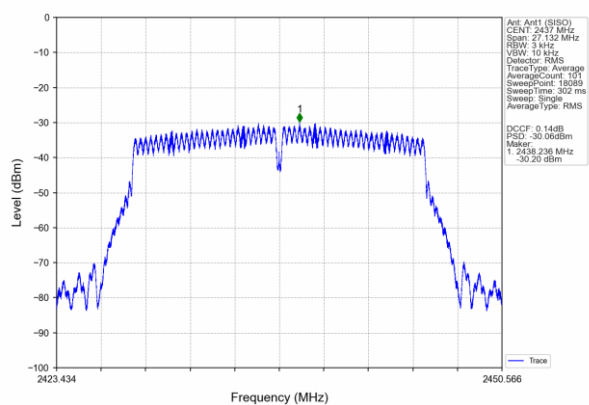




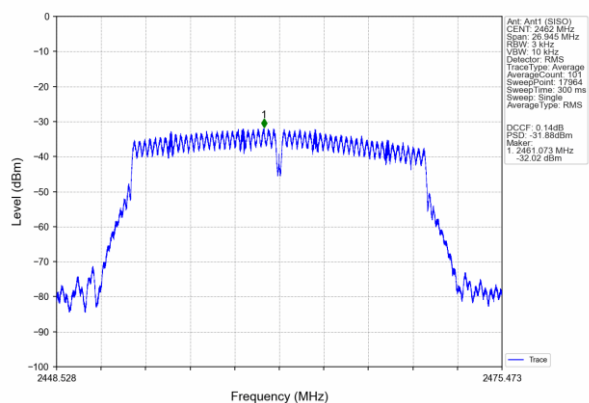
## 802.11n HT20



## 2412MHz



## 2437MHz



## 2462MHz



## 6. 6DB BANDWIDTH TEST

### 6.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |           |                                         |                      |        |
|---------------------------------|-----------|-----------------------------------------|----------------------|--------|
| Section                         | Test Item | Limit                                   | Frequency Range(MHz) | Result |
| 15.247(a)(2)                    | Bandwidth | $\geq 500\text{KHz}$<br>(6dB bandwidth) | 2400-2483.5          | PASS   |

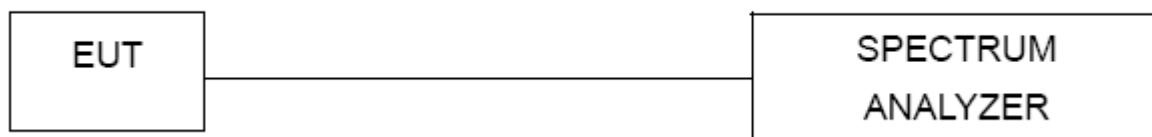
#### 6.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW)  $\geq$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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.

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP



#### 6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

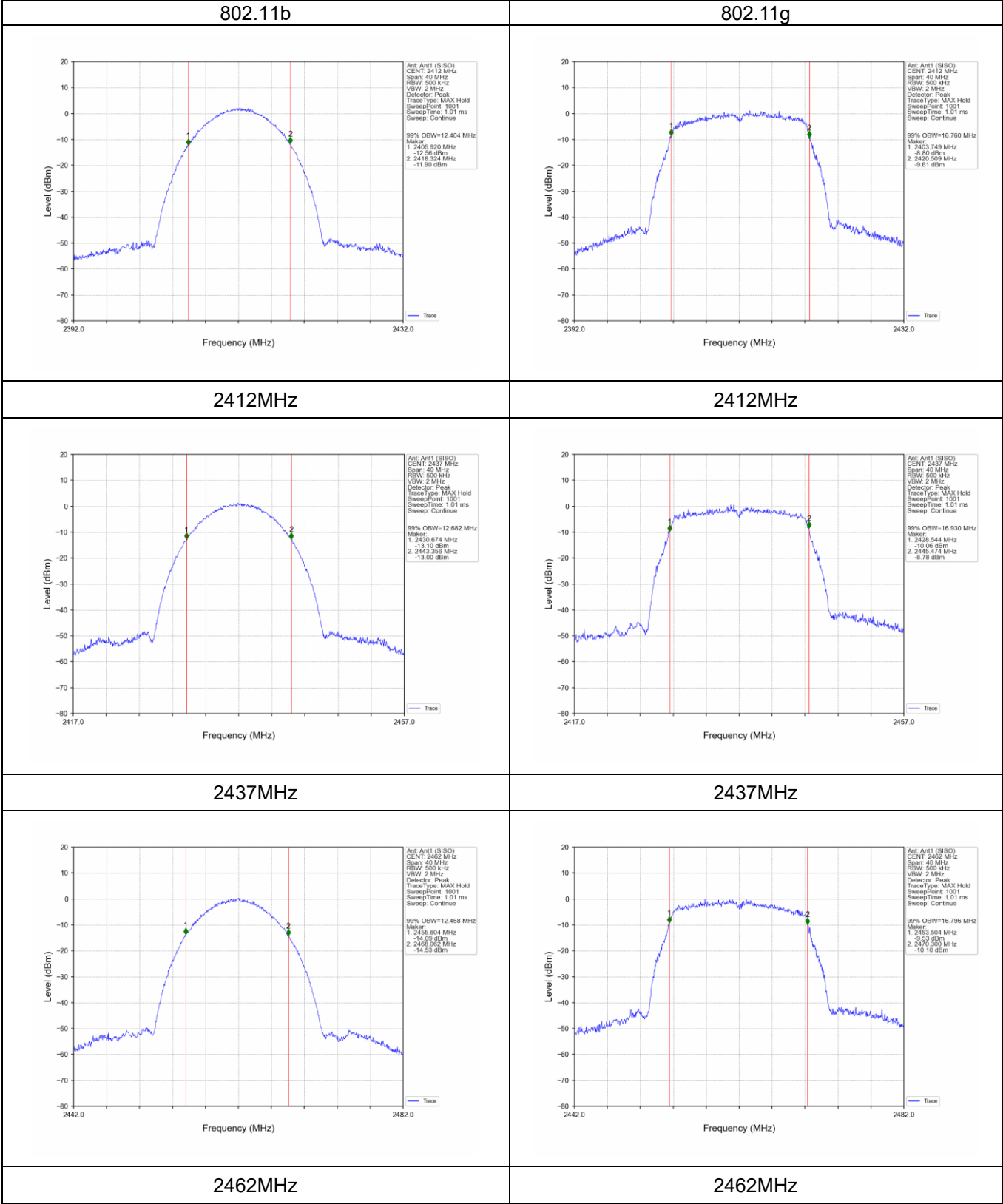
**6.1.5 TEST RESULTS**

|              | Test Channel | 6dB<br>Bandwidth<br>(MHz) | 99%Bandwidth<br>(MHz) | Limit<br>(MHz) | Result |
|--------------|--------------|---------------------------|-----------------------|----------------|--------|
| 802.11b      | Low          | 7.155                     | 12.404                | 0.5            | Pass   |
|              | Middle       | 8.572                     | 12.682                | 0.5            | Pass   |
|              | High         | 7.658                     | 12.458                | 0.5            | Pass   |
| 802.11g      | Low          | 15.717                    | 16.760                | 0.5            | Pass   |
|              | Middle       | 16.313                    | 16.930                | 0.5            | Pass   |
|              | High         | 15.696                    | 16.796                | 0.5            | Pass   |
| 802.11n HT20 | Low          | 15.716                    | 17.871                | 0.5            | Pass   |
|              | Middle       | 17.328                    | 17.931                | 0.5            | Pass   |
|              | High         | 16.258                    | 17.842                | 0.5            | Pass   |



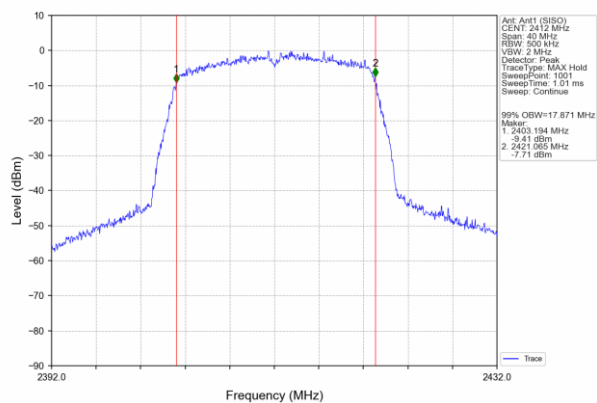


99% Bandwidth

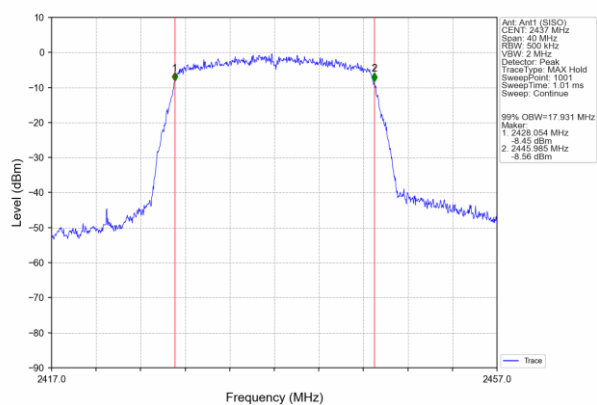




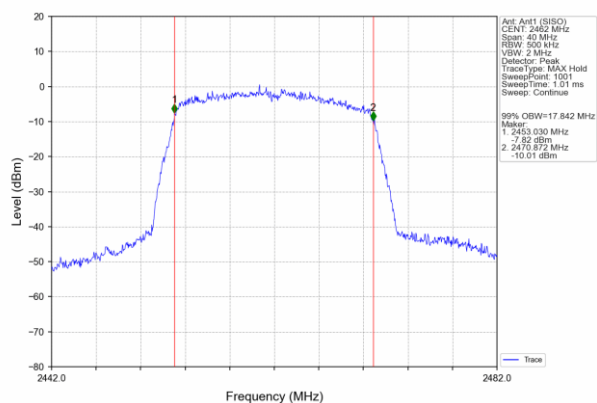
## 802.11n HT20



## 2412MHz



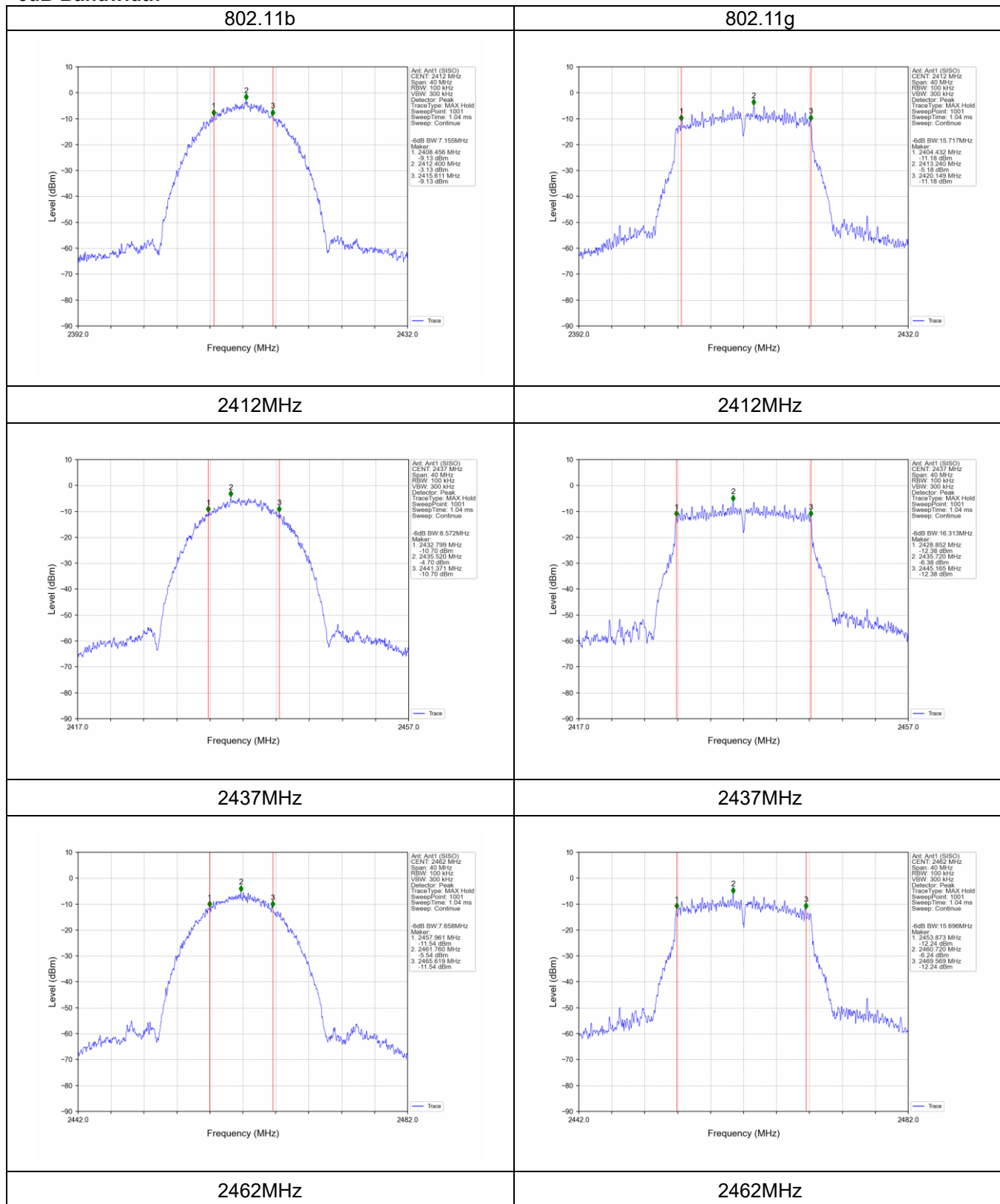
## 2437MHz



## 2462MHz

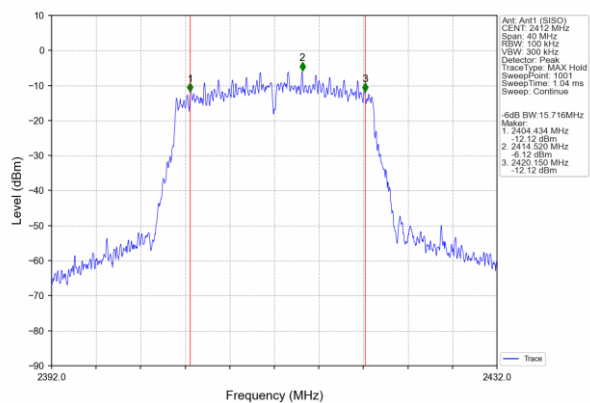


## 6dB Bandwidth

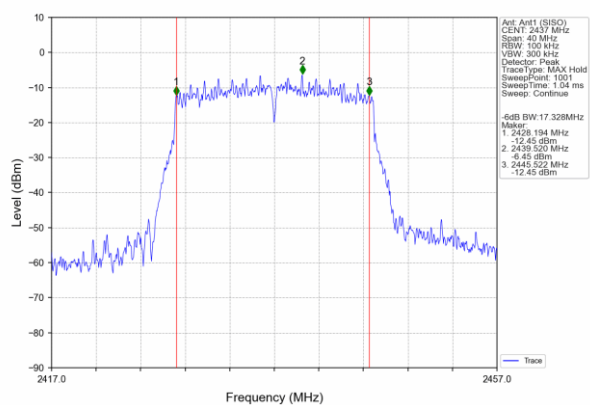




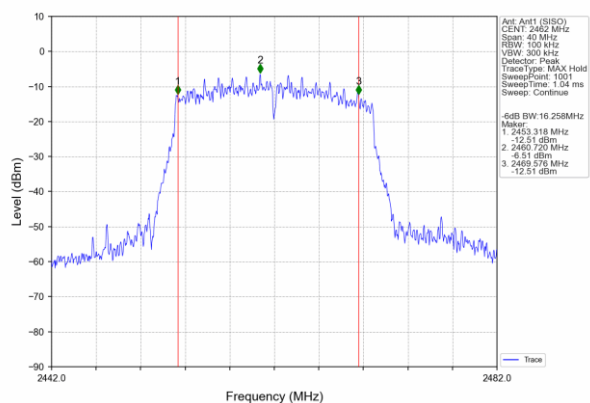
## 802.11n HT20



## 2412MHz



## 2437MHz



## 2462MHz



## **7. ANTENNA REQUIREMENT**

### **7.1 STANDARD REQUIREMENT**

15.203 requirement: For intentional device, according to 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.

### **7.2 EUT ANTENNA**

The EUT antenna is Internal Antenna, It comply with the standard requirement.

## **8. TEST SEUUP PHOTO**

Reference to the appendix I for details.

## **9. EUT PHOTO**

Reference to the appendix II for details.

**\*\*\*\*\* END OF REPORT \*\*\*\*\***