



# FCC TEST REPORT

## FCC ID: 2BFDS-DCD102

|                                                                               |   |                                                                                                                                                                |
|-------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                                                                       | : | Smart Camera                                                                                                                                                   |
| Model Name                                                                    | : | DCD102, DCD100, DCS100, DCS102, DCS103, DCD101, DCS105, DCS141, DCS142, DCS150, DCS151, DCD130, DCD131, DCS132, DCD112, DCD113, DCC102, DCC103, DCE111, DCS152 |
| Brand                                                                         | : | N/A                                                                                                                                                            |
| Report No.                                                                    | : | PTC26061815001E-FC01                                                                                                                                           |
| <b>Prepared for</b>                                                           |   |                                                                                                                                                                |
| Hangzhou Denghong Technology Co.,Ltd.                                         |   |                                                                                                                                                                |
| Paradise Software Park, No.3 Xidomen, Xihu District, Hangzhou Zhejiang,China  |   |                                                                                                                                                                |
| <b>Prepared by</b>                                                            |   |                                                                                                                                                                |
| Precise Testing & Certification Co., Ltd.                                     |   |                                                                                                                                                                |
| Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China |   |                                                                                                                                                                |



## 1 TEST RESULT CERTIFICATION

Applicant's name : Hangzhou Denghong Technology Co.,Ltd.

Address : Paradise Software Park, No.3 Xidomen, Xihu District, Hangzhou  
Zhejiang,China

Manufacture's name : Hangzhou Denghong Technology Co.,Ltd.

Address : Paradise Software Park, No.3 Xidomen, Xihu District, Hangzhou  
Zhejiang,China

Product name : Smart Camera

Model name : DCD102, DCD100, DCS100, DCS102, DCS103, DCD101, DCS105,  
DCS141, DCS142, DCS150, DCS151, DCD130, DCD131, DCS132,  
DCD112, DCD113, DCC102, DCC103, DCE111, DCS152

Standards : FCC CFR47 Part 15 Section 15.247

Test procedure : ANSI C63.10-2020

Test Date : Jun. 23, 2026 to Jul. 24, 2026

Date of Issue : Jul. 24, 2026

Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



## Contents

|                                                        | Page      |
|--------------------------------------------------------|-----------|
| <b>1 TEST RESULT CERTIFICATION .....</b>               | <b>2</b>  |
| <b>2 TEST SUMMARY .....</b>                            | <b>5</b>  |
| <b>3 GENERAL INFORMATION .....</b>                     | <b>6</b>  |
| 3.1 GENERAL DESCRIPTION OF E.U.T. ....                 | 6         |
| 3.2 CHANNEL LIST .....                                 | 7         |
| 3.3 TEST SITE .....                                    | 8         |
| <b>4 EQUIPMENT DURING TEST .....</b>                   | <b>9</b>  |
| 4.1 EQUIPMENTS LIST .....                              | 9         |
| 4.2 MEASUREMENT UNCERTAINTY .....                      | 11        |
| 4.3 DESCRIPTION OF SUPPORT UNITS .....                 | 12        |
| <b>5 CONDUCTED EMISSION .....</b>                      | <b>13</b> |
| 5.1 E.U.T. OPERATION .....                             | 13        |
| 5.2 EUT SETUP .....                                    | 13        |
| 5.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) ..... | 14        |
| 5.4 MEASUREMENT PROCEDURE .....                        | 14        |
| 5.5 CONDUCTED EMISSION LIMIT .....                     | 14        |
| 5.6 MEASUREMENT DESCRIPTION .....                      | 14        |
| 5.7 CONDUCTED EMISSION TEST RESULT .....               | 14        |
| <b>6 RADIATED SPURIOUS EMISSIONS .....</b>             | <b>17</b> |
| 6.1 EUT OPERATION .....                                | 17        |
| 6.2 TEST SETUP .....                                   | 18        |
| 6.3 SPECTRUM ANALYZER SETUP .....                      | 19        |
| 6.4 TEST PROCEDURE .....                               | 20        |
| 6.5 SUMMARY OF TEST RESULTS .....                      | 21        |
| <b>7 CONDUCTED SPURIOUS EMISSION .....</b>             | <b>44</b> |
| 7.1 TEST PROCEDURE .....                               | 44        |
| 7.2 TEST SETUP .....                                   | 45        |
| 7.3 TEST RESULT .....                                  | 45        |



|                                                |           |
|------------------------------------------------|-----------|
| <b>8 BAND EDGE MEASUREMENT .....</b>           | <b>60</b> |
| 8.1 TEST PROCEDURE .....                       | 60        |
| 8.2 TEST SETUP .....                           | 60        |
| 8.3 TEST RESULT .....                          | 60        |
| <b>9 6DB BANDWIDTH MEASUREMENT .....</b>       | <b>64</b> |
| 9.1 TEST PROCEDURE .....                       | 64        |
| 9.2 TEST SETUP .....                           | 64        |
| 9.3 TEST RESULT .....                          | 64        |
| <b>10 MAXIMUM CONDUCTED OUTPUT POWER .....</b> | <b>70</b> |
| 10.1 TEST PROCEDURE .....                      | 70        |
| 10.2 TEST SETUP .....                          | 70        |
| 10.3 TEST RESULT .....                         | 70        |
| <b>11 POWER SPECTRAL DENSITY .....</b>         | <b>71</b> |
| 11.1 TEST PROCEDURE .....                      | 71        |
| 11.2 TEST SETUP .....                          | 71        |
| 11.3 TEST RESULT .....                         | 71        |
| <b>12 ANTENNA APPLICATION .....</b>            | <b>77</b> |
| 12.1 ANTENNA REQUIREMENT .....                 | 77        |
| 12.2 RESULT .....                              | 77        |
| <b>13 TEST SETUP .....</b>                     | <b>78</b> |
| <b>14 EUT PHOTOS .....</b>                     | <b>80</b> |



## 2 Test Summary

| Test Items                     | Test Requirement                 | Result |
|--------------------------------|----------------------------------|--------|
| Conduct Emission               | 15.207                           | N/A    |
| Radiated Spurious Emissions    | 15.205(a)<br>15.209<br>15.247(d) | PASS   |
| Conducted Spurious Emission    | 15.247(d)                        | PASS   |
| Band edge                      | 15.247(d)<br>15.205(a)           | PASS   |
| 6dB Bandwidth                  | 15.247(a)(2)                     | PASS   |
| Maximum Peak Output Power      | 15.247(b)(3)                     | PASS   |
| Power Spectral Density         | 15.247(e)                        | PASS   |
| Antenna Requirement            | 15.203                           | PASS   |
| Remark:<br>N/A: Not Applicable |                                  |        |



### 3 General Information

#### 3.1 General Description of E.U.T.

|                     |   |                                                                                                                                                                |
|---------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name        | : | Smart Camera                                                                                                                                                   |
| Model Name          | : | DCD102, DCD100, DCS100, DCS102, DCS103, DCD101, DCS105, DCS141, DCS142, DCS150, DCS151, DCD130, DCD131, DCS132, DCD112, DCD113, DCC102, DCC103, DCE111, DCS152 |
| Specification       | : | 802.11b/g/n HT20                                                                                                                                               |
| Operating frequency | : | 2412-2462MHz for 802.11b/g/ n(HT20)                                                                                                                            |
| Numbers of Channel  | : | 11 channels for 802.11b/g/ n(HT20)                                                                                                                             |
| Antenna Type        | : | FPC Antenna                                                                                                                                                    |
| Antenna Gain        | : | 3.29 dBi                                                                                                                                                       |
| Type of Modulation  | : | DSSS with DBPSK/DQPSK/CCK for 802.11b;<br>OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;                                                                       |
| Power supply        | : | Input: DC 5V $\pm$ 1A                                                                                                                                          |
| Hardware Version    | : | N/A                                                                                                                                                            |
| Software Version    | : | N/A                                                                                                                                                            |
| Test sample No.     | : | PTC26061815001E-1/2, PTC26061815001E-2/2                                                                                                                       |



### 3.2 Channel List

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0;) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for 802.11 b/g/n (HT20)

| Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
|---------|--------------------|---------|--------------------|---------|--------------------|
| 1       | 2412               | 5       | 2432               | 9       | 2452               |
| 2       | 2417               | 6       | 2437               | 10      | 2457               |
| 3       | 2422               | 7       | 2442               | 11      | 2462               |
| 4       | 2427               | 8       | 2447               |         |                    |

The maximum duty cycle as following table:

| Test Mode     | Duty Cycle(%) |
|---------------|---------------|
| 802.11b       | 100%          |
| 802.11g       | 100%          |
| 802.11n(HT20) | 100%          |



Report No.: PTC26061815001E-FC01

### **3.3 Test Site**

Precise Testing & Certification Co., Ltd

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A

FCC Designation Number: CN1219



## 4 Equipment During Test

### 4.1 Equipments List

RF Conducted Test

| Name of Equipment   | Manufacturer | Model    | Serial No.    | Characteristics   | Last Calibration | Calibration Interval |
|---------------------|--------------|----------|---------------|-------------------|------------------|----------------------|
| MXG Signal Analyzer | Agilent      | N9020A   | SER MY5111038 | 10Hz-26.5GHz      | Aug. 14, 2025    | 1 Year               |
| Coaxial Cable       | CDS          | 79254    | 46107086      | 10Hz-30GHz        | Aug. 14, 2025    | 1 Year               |
| Power Meter         | Anritsu      | ML2495A  | 0949003       | 300MHz-40GHz      | Aug. 14, 2025    | 1 Year               |
| Power Sensor        | Anritsu      | MA2411B  | 0917017       | 300MHz-40GHz      | Aug. 14, 2025    | 1 Year               |
| DC power Supply     | Agilent      | E3642A   | MY52420017    | 0-8V,5A/0-20,2.5A | Aug. 14, 2025    | 1 Year               |
| 6dB Attenuation     | /            | DC-3GHz  | /             | 0.09MHz-3GHz      | Aug.14, 2025     | 1 Year               |
| Test S/W            | Tonscend     | JS1120-3 | /             | /                 | /                | /                    |

Remark: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

| Name of Equipment            | Manufacturer  | Model        | Serial No.       | Characteristics | Last Calibration | Calibration Interval |
|------------------------------|---------------|--------------|------------------|-----------------|------------------|----------------------|
| EMI Test Receiver            | Rohde&Schwarz | ESPI7        | 101671           | 9KHz-7GHz       | Aug. 14, 2025    | 1 Year               |
| Loop Antenna                 | Schwarzbeck   | FMZB 1519    | 192              | 9 KHz -30MHz    | Nov. 28, 2025    | 1 Year               |
| Bilog Antenna                | SCHWARZBECK   | VULB9160     | 9160-3355        | 25MHz-2GHz      | Sep. 10, 2025    | 1 Year               |
| Preamplifier (low frequency) | SCHWARZBECK   | BBV 9475     | 9745-0013        | 9KHz-1GHz       | Mar. 21, 2026    | 1 Year               |
| Cable                        | IMRO          | AK-9515E(9m) | Cable-L          | 9KHz-3GHz       | Aug. 14, 2025    | 1 Year               |
| Spectrum Analyzer            | Rohde&Schwarz | FSV40        | 6625-01-588-5515 | 9KHz-40GHz      | Aug. 14, 2025    | 1 Year               |
| Horn Antenna                 | SCHWARZBECK   | BBHA9120D    | 9120D-1246       | 1GHz-18GHz      | Dec. 12, 2025    | 1 Year               |
| Power Amplifier              | ZHINAN        | ZN3380C      | 15002            | 1GHz-26.5GHz    | Aug. 14, 2025    | 1 Year               |



Report No.: PTC26061815001E-FC01

|              |             |           |           |              |               |        |
|--------------|-------------|-----------|-----------|--------------|---------------|--------|
| Horn Antenna | SCHWARZBECK | BBHA 9170 | 9170-1066 | 15GHz-40GHz  | Jun. 06, 2026 | 1 Year |
| Amplifier    | SCHWARZBECK | BBV 9721  | 9721-205  | 18GHz-40GHz  | Jun. 04, 2026 | 1 Year |
| Cable        | H+S         | CBL-26    | N/A       | 1GHz-26.5GHz | Aug. 14, 2025 | 1 Year |
| RF Cable     | R&S         | R204      | R21X      | 1GHz-40GHz   | Aug. 14, 2025 | 1 Year |
| Test S/W     | Tonscend    | TS+       | /         | /            | /             | /      |

#### Conducted Emissions

| Name of Equipment        | Manufacturer    | Model   | Serial No.             | Characteristics | Calibration Date | Calibration Interval |
|--------------------------|-----------------|---------|------------------------|-----------------|------------------|----------------------|
| EMI Test Receiver        | Rohde&Schwarz   | ESCI3   | 101417                 | 9KHz-3GHz       | Aug. 14, 2025    | 1 Year               |
| Artificial Mains Network | Rohde&Schwarz   | ENV216  | 102453                 | 9KHz-300MHz     | Oct. 30, 2025    | 1 Year               |
| Artificial Mains Network | Rohde&Schwarz   | ENV216  | 101342                 | 9KHz-300MHz     | Oct. 30, 2025    | 1 Year               |
| Limiter                  | R&S             | ESH3-Z2 | 0357.8810.54-102808-NB | 0Hz-30MHz       | Aug. 14, 2025    | 1 Year               |
| RF Switch                | DIAMOND ANTENNA | CX-210  | /                      | 0.09MHz-6GHz    | Mar. 21,2026     | 1 Year               |
| Test S/W                 | Tonscend        | JS32-CE | /                      | /               | /                | /                    |



## 4.2 Measurement Uncertainty

| Parameter                          | Uncertainty              |
|------------------------------------|--------------------------|
| RF output power, conducted         | $\pm 1.0\text{dB}$       |
| Power Spectral Density, conducted  | $\pm 2.2\text{dB}$       |
| Radio Frequency                    | $\pm 1 \times 10^{-6}$   |
| Bandwidth                          | $\pm 1.5 \times 10^{-6}$ |
| Time                               | $\pm 2\%$                |
| Duty Cycle                         | $\pm 2\%$                |
| Temperature                        | $\pm 1^\circ\text{C}$    |
| Humidity                           | $\pm 5\%$                |
| DC and low frequency voltages      | $\pm 3\%$                |
| Conducted Emissions (150kHz~30MHz) | $\pm 3.64\text{dB}$      |
| Radiated Emission(9kHz~30MHz)      | $\pm 3.15\text{dB}$      |
| Radiated Emission(30MHz~1GHz)      | $\pm 5.03\text{dB}$      |
| Radiated Emission(1GHz~25GHz)      | $\pm 4.74\text{dB}$      |



Report No.: PTC26061815001E-FC01

#### 4.3 Description of Support Units

| Equipment | Model No. | Series No. |
|-----------|-----------|------------|
| Adapter   | A0501A    | N/A        |

## 5 Conducted Emission

Test Requirement: : FCC CFR 47 Part 15 Section 15.207

Test Method : ANSI C63.10: 2020

Test Result : PASS

Frequency Range : 150kHz to 30MHz

### 5.1E.U.T. Operation

Operating Environment :

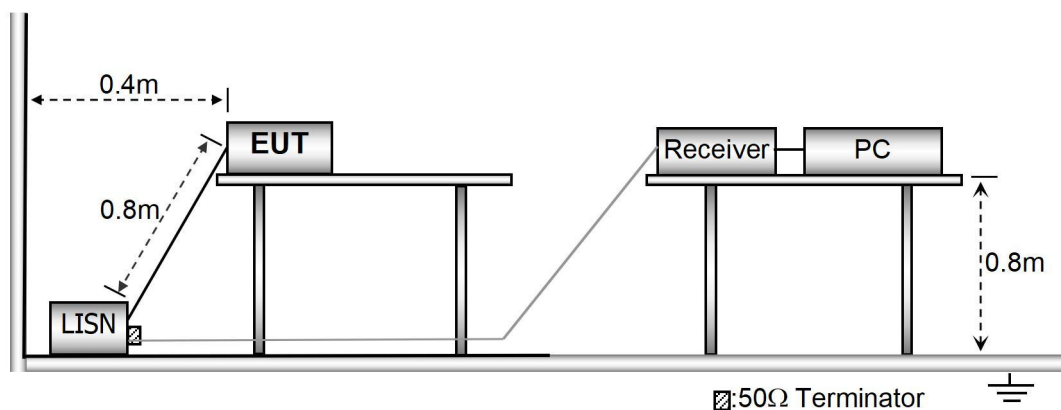
Temperature : 23.9 °C

Humidity : 51.4 % RH

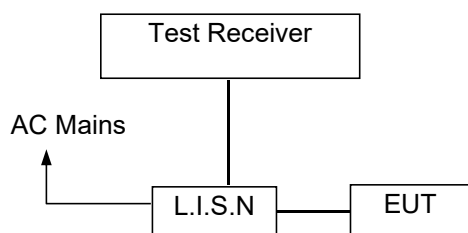
Atmospheric Pressure : 101.21kPa

### 5.2EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10-2020.



### 5.3 Test SET-UP (Block Diagram of Configuration)



### 5.4 Measurement Procedure

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

### 5.5 Conducted Emission Limit

#### Conducted Emission

| Frequency(MHz) | Quasi-peak | Average |
|----------------|------------|---------|
| 0.15-0.5       | 66-56      | 56-46   |
| 0.5-5.0        | 56         | 46      |
| 5.0-30.0       | 60         | 50      |

#### Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 5.6 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

### 5.7 Conducted Emission Test Result

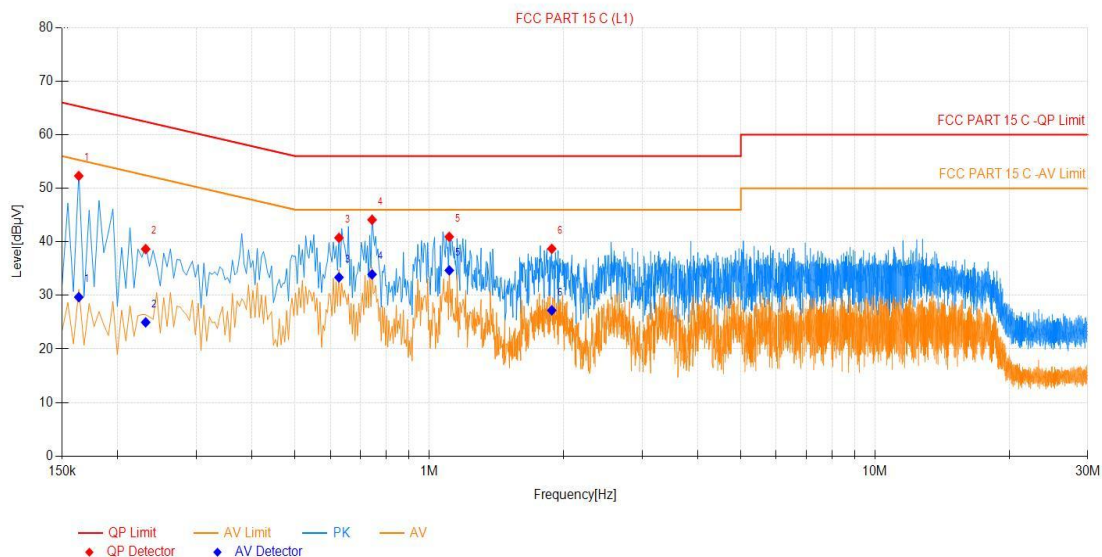
Pass.

During the test, the 120Vac/60Hz and 240Vac/60Hz power supplies were scanned in advance, and it was found that (120Vac/60Hz, TX 802.11b Low Channel) was a poor mode, and the report only reflected the poor mode.

Please refer to the following pages.



L:

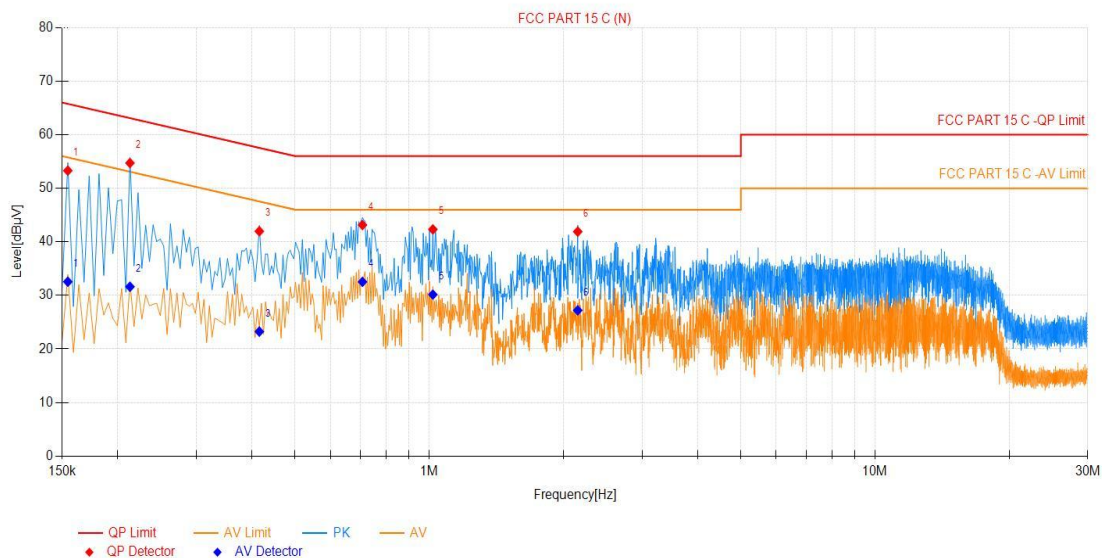


## Final Data List

| NO. | Freq.<br>[MHz] | QP<br>Reading | Factor<br>[dB] | QP<br>Value | QP<br>Limit | QP<br>Margin | AV<br>Reading | AV<br>Value | AV<br>Limit | AV<br>Margin | Verdict |
|-----|----------------|---------------|----------------|-------------|-------------|--------------|---------------|-------------|-------------|--------------|---------|
| 1   | 0.164          | 32.83         | 19.47          | 52.30       | 65.28       | 12.98        | 10.20         | 29.67       | 55.28       | 25.61        | PASS    |
| 2   | 0.231          | 19.19         | 19.45          | 38.64       | 62.41       | 23.77        | 5.52          | 24.97       | 52.41       | 27.44        | PASS    |
| 3   | 0.627          | 21.36         | 19.39          | 40.75       | 56.00       | 15.25        | 13.97         | 33.36       | 46.00       | 12.64        | PASS    |
| 4   | 0.744          | 24.68         | 19.43          | 44.11       | 56.00       | 11.89        | 14.49         | 33.92       | 46.00       | 12.08        | PASS    |
| 5   | 1.109          | 21.45         | 19.49          | 40.94       | 56.00       | 15.06        | 15.17         | 34.66       | 46.00       | 11.34        | PASS    |
| 6   | 1.883          | 19.23         | 19.47          | 38.70       | 56.00       | 17.30        | 7.73          | 27.20       | 46.00       | 18.80        | PASS    |



N:



## Final Data List

| NO. | Freq.<br>[MHz] | QP<br>Reading | Factor<br>[dB] | QP<br>Value | QP<br>Limit | QP<br>Margin | AV<br>Reading | AV<br>Value | AV<br>Limit | AV<br>Margin | Verdict |
|-----|----------------|---------------|----------------|-------------|-------------|--------------|---------------|-------------|-------------|--------------|---------|
| 1   | 0.155          | 33.88         | 19.41          | 53.29       | 65.75       | 12.46        | 13.14         | 32.55       | 55.75       | 23.20        | PASS    |
| 2   | 0.213          | 35.31         | 19.40          | 54.71       | 63.09       | 8.38         | 12.22         | 31.62       | 53.09       | 21.47        | PASS    |
| 3   | 0.416          | 22.56         | 19.41          | 41.97       | 57.54       | 15.57        | 3.83          | 23.24       | 47.54       | 24.30        | PASS    |
| 4   | 0.708          | 23.73         | 19.41          | 43.14       | 56.00       | 12.86        | 13.12         | 32.53       | 46.00       | 13.47        | PASS    |
| 5   | 1.019          | 22.90         | 19.42          | 42.32       | 56.00       | 13.68        | 10.73         | 30.15       | 46.00       | 15.85        | PASS    |
| 6   | 2.153          | 22.46         | 19.44          | 41.90       | 56.00       | 14.10        | 7.77          | 27.21       | 46.00       | 18.79        | PASS    |



## 6 Radiated Spurious Emissions

Test Requirement : FCC CFR47 Part 15 Section 15.209 & 15.247  
 Test Method : ANSI C63.10-2020  
 Test Result : PASS  
 Measurement Distance : 3m  
 Limit : See the follow table

| Frequency (MHz) | Field Strength        |              | Field Strength Limit at 3m Measurement Dist |                                       |
|-----------------|-----------------------|--------------|---------------------------------------------|---------------------------------------|
|                 | uV/m                  | Distance (m) | uV/m                                        | dBuV/m                                |
| 0.009 ~ 0.490   | $2400/F(\text{kHz})$  | 300          | $10000 * 2400/F(\text{kHz})$                | $20\log^{(2400/F(\text{kHz}))} + 80$  |
| 0.490 ~ 1.705   | $24000/F(\text{kHz})$ | 30           | $100 * 24000/F(\text{kHz})$                 | $20\log^{(24000/F(\text{kHz}))} + 40$ |
| 1.705 ~ 30      | 30                    | 30           | $100 * 30$                                  | $20\log^{(30)} + 40$                  |
| 30 ~ 88         | 100                   | 3            | 100                                         | $20\log^{(100)}$                      |
| 88 ~ 216        | 150                   | 3            | 150                                         | $20\log^{(150)}$                      |
| 216 ~ 960       | 200                   | 3            | 200                                         | $20\log^{(200)}$                      |
| Above 960       | 500                   | 3            | 500                                         | $20\log^{(500)}$                      |

### 6.1EUT Operation

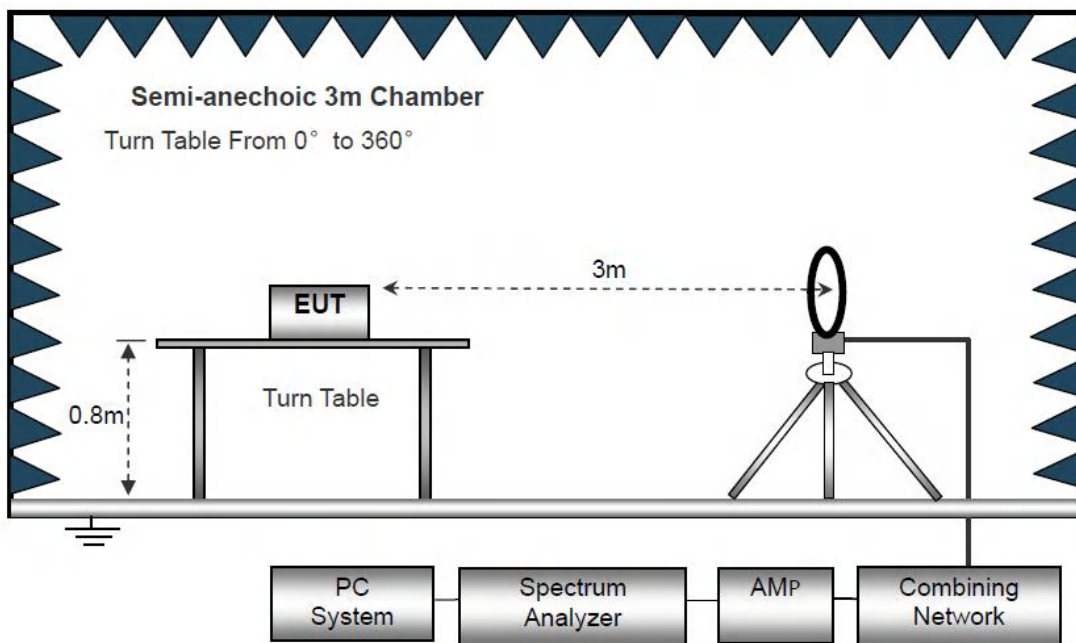
Operating Environment :

Temperature: : 24.5 °C  
 Humidity: : 52 % RH  
 Atmospheric Pressure: : 101.3kPa  
 Test Voltage : AC 120V 60Hz

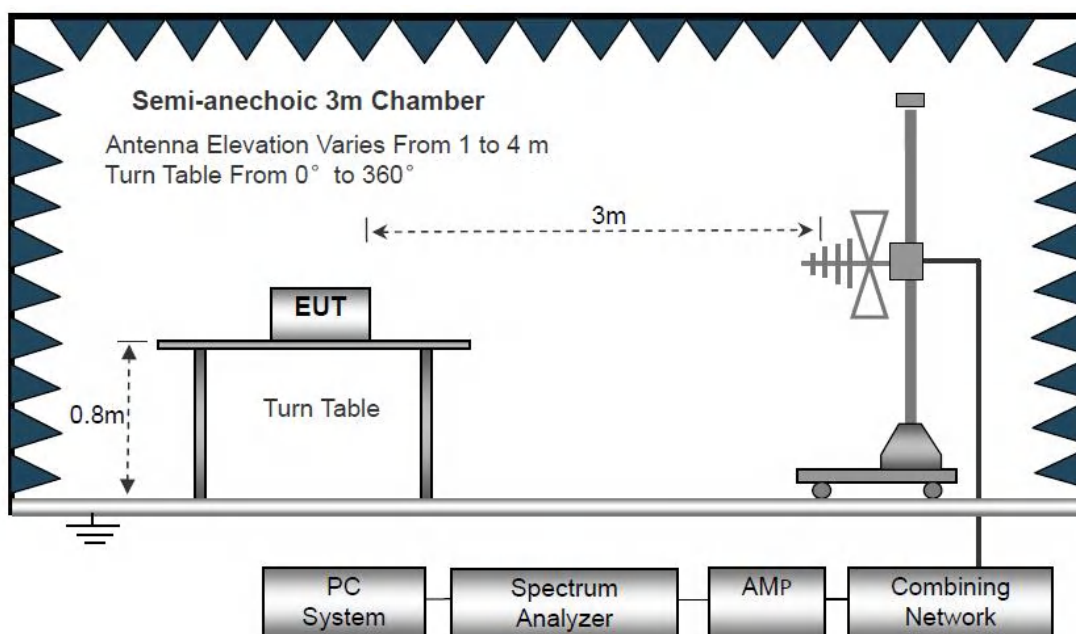
## 6.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

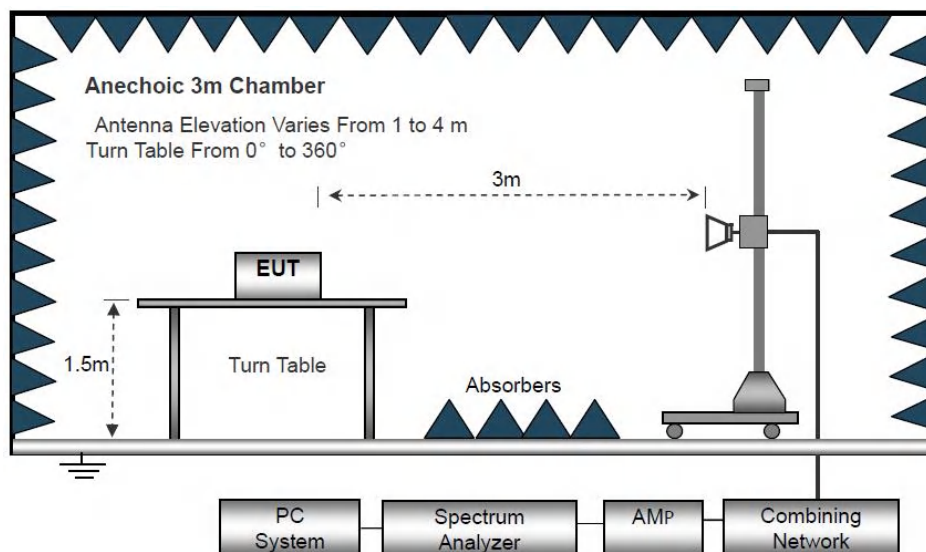
The test setup for emission measurement below 30MHz



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz



### 6.3 Spectrum Analyzer Setup

| Receiver Setup | Frequency    | Detector   | RBW    | VBW    | Remark           |
|----------------|--------------|------------|--------|--------|------------------|
|                | Below 30MHz  | --         | 10kHz  | 10kHz  | --               |
|                | 30MHz ~ 1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak Value |
|                | Above 1GHz   | Peak       | 1MHz   | 3MHz   | Peak Value       |
|                |              | RMS        | 1MHz   | 3MHz   | Average Value    |



## 6.4 Test Procedure

1. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane, And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room



## 6.5 Summary of Test Results

### Test Frequency: 9KHz-30MHz

Note:

The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =  $40\log(\text{Specific distance} / \text{test distance})$  (dB);  
Limit line = Specific limits (dBuV) + distance extrapolation factor.

### Test Frequency: 30MHz ~ 1GHz

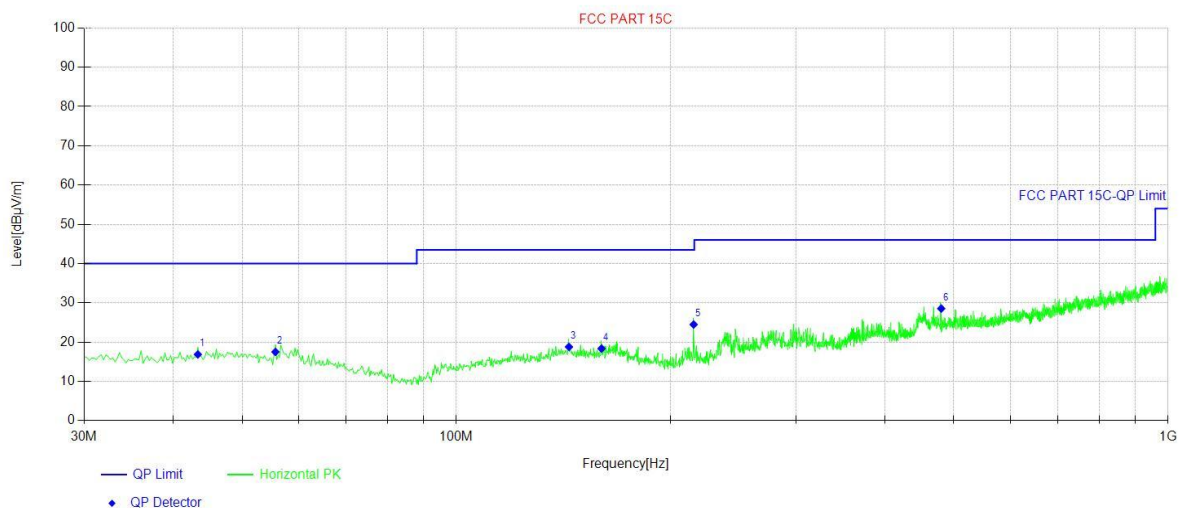
All the modulation modes were tested the data of the worst mode (TX 802.11b Low Channel) are recorded in the following pages and the others modulation methods do not exceed the limits.

Please refer to the following test plots:



Test model: DCD102

Antenna Polarization: Horizontal



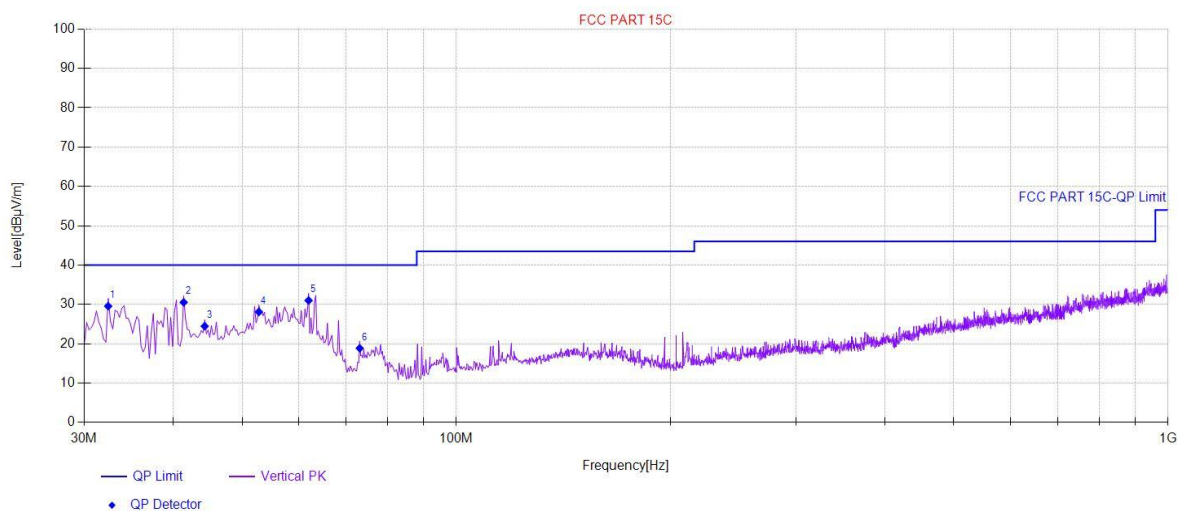
Final Data List[QP]

| NO. | Freq.<br>[MHz] | QP<br>Reading<br>[dBμV/m] | Factor<br>[dB] | QP<br>Value<br>[dBμV/m] | QP Limit<br>[dBμV/m] | QP<br>Margin<br>[dB] | Polarity   | Verdict |
|-----|----------------|---------------------------|----------------|-------------------------|----------------------|----------------------|------------|---------|
| 1   | 43.34          | 26.57                     | -9.70          | 16.87                   | 40.00                | 23.13                | Horizontal | PASS    |
| 2   | 55.71          | 27.86                     | -10.35         | 17.51                   | 40.00                | 22.49                | Horizontal | PASS    |
| 3   | 143.98         | 27.06                     | -8.27          | 18.79                   | 43.50                | 24.71                | Horizontal | PASS    |
| 4   | 159.98         | 26.23                     | -7.87          | 18.36                   | 43.50                | 25.14                | Horizontal | PASS    |
| 5   | 215.51         | 34.47                     | -9.98          | 24.49                   | 43.50                | 19.01                | Horizontal | PASS    |
| 6   | 480.08         | 30.03                     | -1.48          | 28.55                   | 46.00                | 17.45                | Horizontal | PASS    |

Remark:1. QP Value= QP Reading+ Factor;  
 2.QP Margin= QP Limit- QP Value;  
 3.Factor= ANT Factor+ Cable Loss -AMP Factor.



Antenna Polarization: Vertical



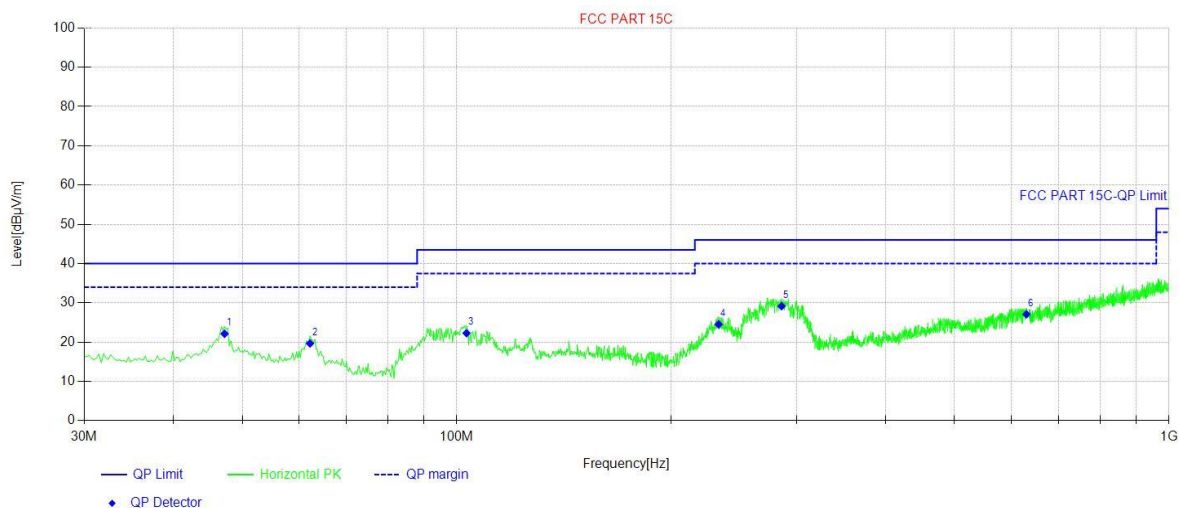
| Final Data List[QP] |                |                           |                |                         |                      |                      |          |         |
|---------------------|----------------|---------------------------|----------------|-------------------------|----------------------|----------------------|----------|---------|
| NO.                 | Freq.<br>[MHz] | QP<br>Reading<br>[dBμV/m] | Factor<br>[dB] | QP<br>Value<br>[dBμV/m] | QP Limit<br>[dBμV/m] | QP<br>Margin<br>[dB] | Polarity | Verdict |
| 1                   | 32.43          | 39.88                     | -10.32         | 29.56                   | 40.00                | 10.44                | Vertical | PASS    |
| 2                   | 41.40          | 40.27                     | -9.73          | 30.54                   | 40.00                | 9.46                 | Vertical | PASS    |
| 3                   | 44.31          | 34.15                     | -9.68          | 24.47                   | 40.00                | 15.53                | Vertical | PASS    |
| 4                   | 52.80          | 38.17                     | -10.08         | 28.09                   | 40.00                | 11.91                | Vertical | PASS    |
| 5                   | 62.01          | 42.26                     | -11.24         | 31.02                   | 40.00                | 8.98                 | Vertical | PASS    |
| 6                   | 73.17          | 32.28                     | -13.41         | 18.87                   | 40.00                | 21.13                | Vertical | PASS    |

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor



Test model: DCD131

Antenna Polarization: Horizontal



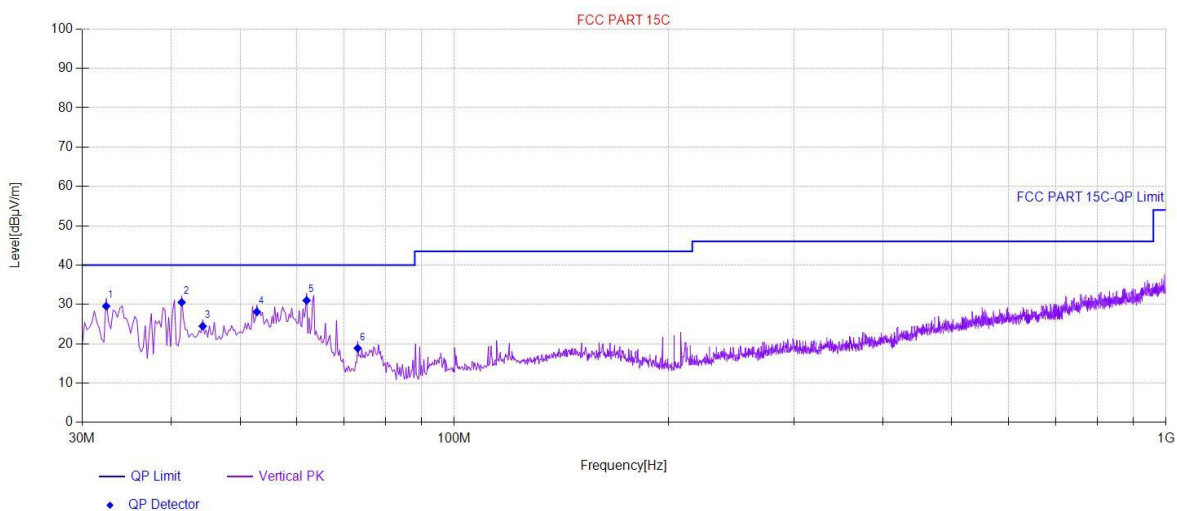
Final Data List[QP]

| NO. | Freq.<br>[MHz] | QP<br>Reading<br>[dBμV/m] | Factor<br>[dB] | QP<br>Value<br>[dBμV/m] | QP Limit<br>[dBμV/m] | QP<br>Margin<br>[dB] | Polarity   | Verdict |
|-----|----------------|---------------------------|----------------|-------------------------|----------------------|----------------------|------------|---------|
| 1   | 47.22          | 31.8                      | -9.67          | 22.13                   | 40.00                | 17.87                | Horizontal | PASS    |
| 2   | 62.25          | 30.97                     | -11.29         | 19.68                   | 40.00                | 20.32                | Horizontal | PASS    |
| 3   | 103.24         | 34.16                     | -11.87         | 22.29                   | 43.50                | 21.21                | Horizontal | PASS    |
| 4   | 233.22         | 33.3                      | -8.77          | 24.53                   | 46.00                | 21.47                | Horizontal | PASS    |
| 5   | 285.84         | 35.88                     | -6.71          | 29.17                   | 46.00                | 16.83                | Horizontal | PASS    |
| 6   | 630.67         | 25.64                     | 1.46           | 27.10                   | 46.00                | 18.90                | Horizontal | PASS    |

Remark: 1. QP Value= QP Reading+ Factor;  
 2. QP Margin= QP Limit- QP Value;  
 3. Factor= ANT Factor+ Cable Loss -AMP Factor.



Antenna Polarization: Vertical



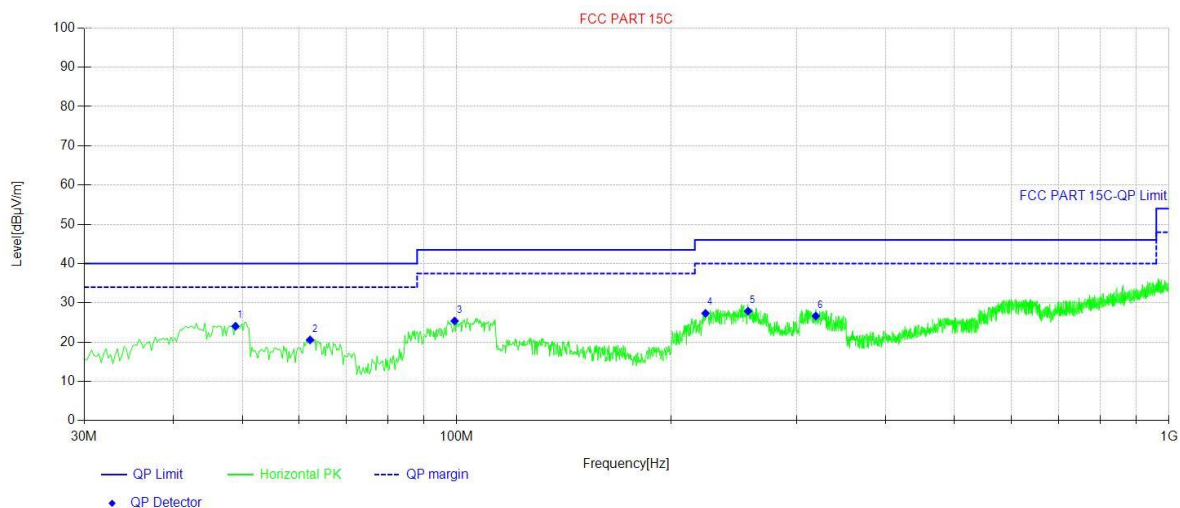
| Final Data List[QP] |             |                     |             |                   |                   |                |          |         |
|---------------------|-------------|---------------------|-------------|-------------------|-------------------|----------------|----------|---------|
| NO.                 | Freq. [MHz] | QP Reading [dBμV/m] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Polarity | Verdict |
| 1                   | 47.22       | 40.16               | -9.67       | 30.49             | 40.00             | 9.51           | Vertical | PASS    |
| 2                   | 62.50       | 41.03               | -11.34      | 29.69             | 40.00             | 10.31          | Vertical | PASS    |
| 3                   | 91.84       | 43.29               | -14.49      | 28.80             | 43.50             | 14.70          | Vertical | PASS    |
| 4                   | 109.54      | 39.7                | -10.83      | 28.87             | 43.50             | 14.63          | Vertical | PASS    |
| 5                   | 269.11      | 35.45               | -7.52       | 27.93             | 46.00             | 18.07          | Vertical | PASS    |
| 6                   | 722.82      | 25.51               | 3.48        | 28.99             | 46.00             | 17.01          | Vertical | PASS    |

Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor



Test model: DCS100

Antenna Polarization: Horizontal



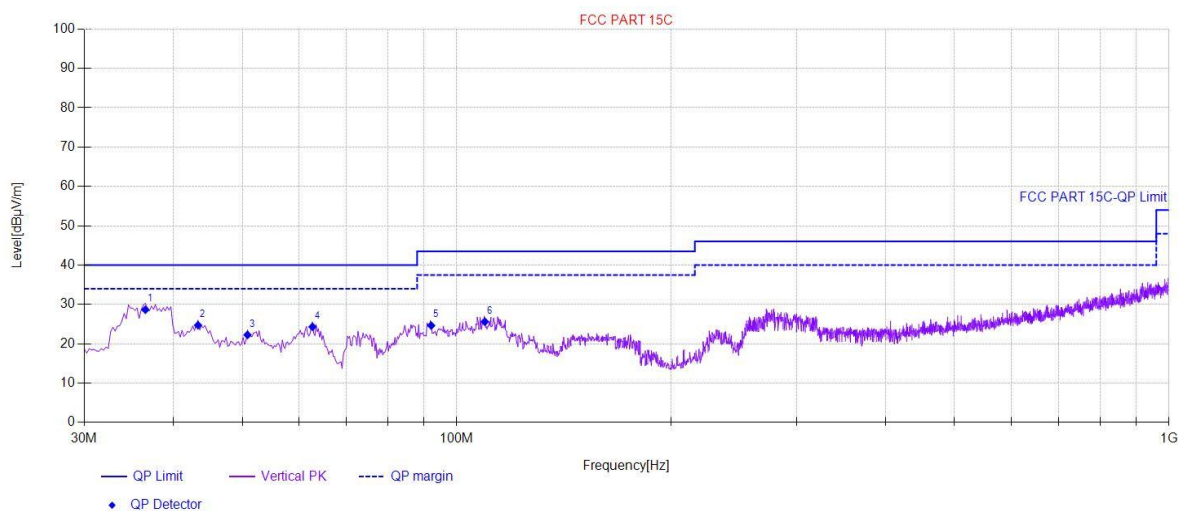
#### Final Data List[QP]

| NO. | Freq.<br>[MHz] | QP<br>Reading<br>[dBμV/m] | Factor<br>[dB] | QP<br>Value<br>[dBμV/m] | QP Limit<br>[dBμV/m] | QP<br>Margin<br>[dB] | Polarity   | Verdict |
|-----|----------------|---------------------------|----------------|-------------------------|----------------------|----------------------|------------|---------|
| 1   | 48.92          | 33.9                      | -9.86          | 24.04                   | 40.00                | 15.96                | Horizontal | PASS    |
| 2   | 62.25          | 31.85                     | -11.29         | 20.56                   | 40.00                | 19.44                | Horizontal | PASS    |
| 3   | 99.36          | 38.16                     | -12.78         | 25.38                   | 43.50                | 18.12                | Horizontal | PASS    |
| 4   | 223.52         | 36.69                     | -9.35          | 27.34                   | 46.00                | 18.66                | Horizontal | PASS    |
| 5   | 256.50         | 35.86                     | -7.99          | 27.87                   | 46.00                | 18.13                | Horizontal | PASS    |
| 6   | 319.30         | 32.68                     | -6.04          | 26.64                   | 46.00                | 19.36                | Horizontal | PASS    |

Remark: 1. QP Value= QP Reading+ Factor;  
 2. QP Margin= QP Limit- QP Value;  
 3. Factor= ANT Factor+ Cable Loss -AMP Factor.



Antenna Polarization: Vertical



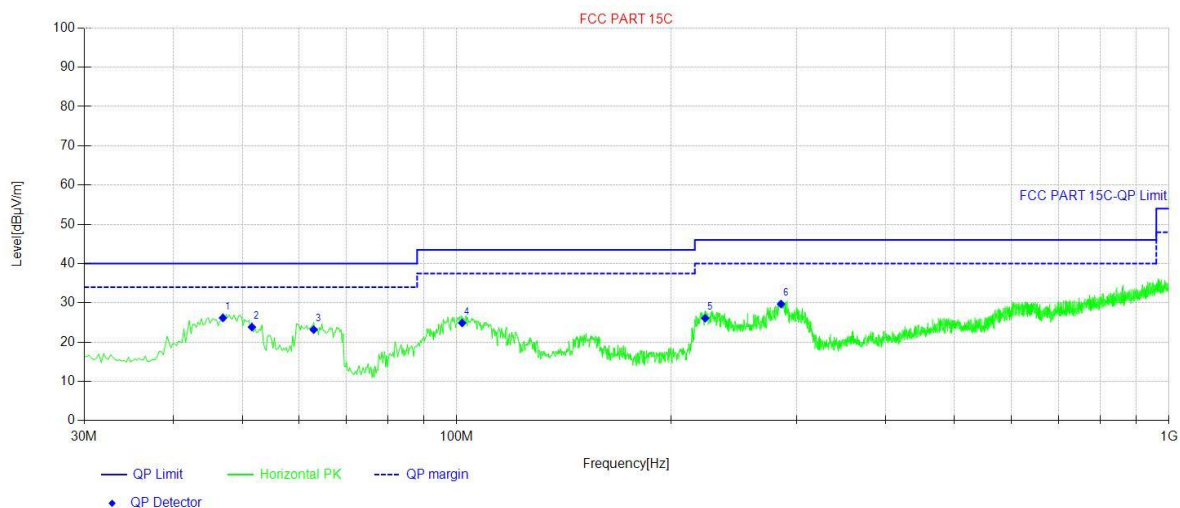
| Final Data List[QP] |                |                           |                |                         |                      |                      |          |         |
|---------------------|----------------|---------------------------|----------------|-------------------------|----------------------|----------------------|----------|---------|
| NO.                 | Freq.<br>[MHz] | QP<br>Reading<br>[dBμV/m] | Factor<br>[dB] | QP<br>Value<br>[dBμV/m] | QP Limit<br>[dBμV/m] | QP<br>Margin<br>[dB] | Polarity | Verdict |
| 1                   | 36.55          | 38.77                     | -10.11         | 28.66                   | 40.00                | 11.34                | Vertical | PASS    |
| 2                   | 43.34          | 34.41                     | -9.70          | 24.71                   | 40.00                | 15.29                | Vertical | PASS    |
| 3                   | 50.86          | 32.14                     | -9.89          | 22.25                   | 40.00                | 17.75                | Vertical | PASS    |
| 4                   | 62.74          | 35.7                      | -11.39         | 24.31                   | 40.00                | 15.69                | Vertical | PASS    |
| 5                   | 92.08          | 39.07                     | -14.44         | 24.63                   | 43.50                | 18.87                | Vertical | PASS    |
| 6                   | 109.54         | 36.44                     | -10.83         | 25.61                   | 43.50                | 17.89                | Vertical | PASS    |

Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor



Test model: DCS105

Antenna Polarization: Horizontal



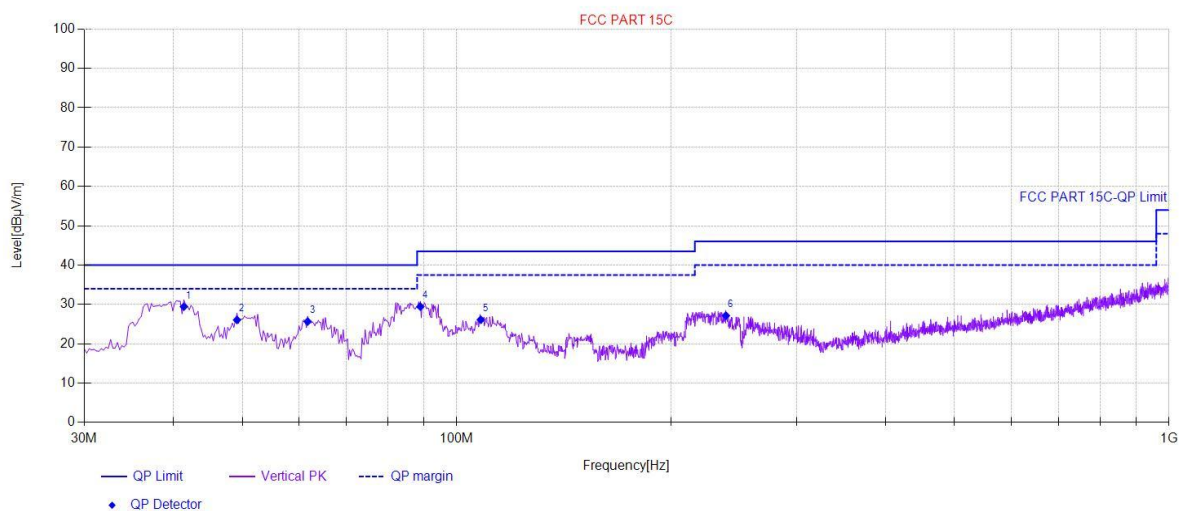
Final Data List[QP]

| NO. | Freq.<br>[MHz] | QP<br>Reading<br>[dBμV/m] | Factor<br>[dB] | QP<br>Value<br>[dBμV/m] | QP Limit<br>[dBμV/m] | QP<br>Margin<br>[dB] | Polarity   | Verdict |
|-----|----------------|---------------------------|----------------|-------------------------|----------------------|----------------------|------------|---------|
| 1   | 46.98          | 35.81                     | -9.64          | 26.17                   | 40.00                | 13.83                | Horizontal | PASS    |
| 2   | 51.58          | 33.73                     | -9.90          | 23.83                   | 40.00                | 16.17                | Horizontal | PASS    |
| 3   | 62.98          | 34.62                     | -11.44         | 23.18                   | 40.00                | 16.82                | Horizontal | PASS    |
| 4   | 101.78         | 37.14                     | -12.26         | 24.88                   | 43.50                | 18.62                | Horizontal | PASS    |
| 5   | 223.27         | 35.45                     | -9.37          | 26.08                   | 46.00                | 19.92                | Horizontal | PASS    |
| 6   | 285.35         | 36.42                     | -6.72          | 29.70                   | 46.00                | 16.30                | Horizontal | PASS    |

Remark: 1. QP Value= QP Reading+ Factor;  
 2. QP Margin= QP Limit- QP Value;  
 3. Factor= ANT Factor+ Cable Loss -AMP Factor.



Antenna Polarization: Vertical



| Final Data List[QP] |                |                           |                |                         |                      |                      |          |         |
|---------------------|----------------|---------------------------|----------------|-------------------------|----------------------|----------------------|----------|---------|
| NO.                 | Freq.<br>[MHz] | QP<br>Reading<br>[dBμV/m] | Factor<br>[dB] | QP<br>Value<br>[dBμV/m] | QP Limit<br>[dBμV/m] | QP<br>Margin<br>[dB] | Polarity | Verdict |
| 1                   | 41.40          | 39.16                     | -9.73          | 29.43                   | 40.00                | 10.57                | Vertical | PASS    |
| 2                   | 49.16          | 35.93                     | -9.87          | 26.06                   | 40.00                | 13.94                | Vertical | PASS    |
| 3                   | 61.77          | 36.86                     | -11.21         | 25.65                   | 40.00                | 14.35                | Vertical | PASS    |
| 4                   | 88.93          | 44.56                     | -15.12         | 29.44                   | 43.50                | 14.06                | Vertical | PASS    |
| 5                   | 108.09         | 37.2                      | -11.09         | 26.11                   | 43.50                | 17.39                | Vertical | PASS    |
| 6                   | 238.79         | 35.69                     | -8.53          | 27.16                   | 46.00                | 18.84                | Vertical | PASS    |

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor



**Test Frequency: From 1GHz to 18GHz**

**Test model: DCD102**

Worst case 802.11b

| Test Mode: 2412 |                   |                       |                 |                    | Test channel: Lowest |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4824            | 47.42             | 32.35                 | 4.12            | 28.44              | 55.45                | 74             | -18.55          | V    |
| 7236            | 38.72             | 36.08                 | 6.3             | 27.74              | 53.36                | 74             | -20.64          | V    |
| 9648            | 35.27             | 38.25                 | 7.91            | 24.65              | 56.78                | 74             | -17.22          | V    |
| 4824            | 43.45             | 32.35                 | 4.12            | 28.44              | 51.48                | 74             | -22.52          | H    |
| 7236            | 39.08             | 36.08                 | 6.3             | 27.74              | 53.72                | 74             | -20.28          | H    |
| 9648            | 33.50             | 38.25                 | 7.91            | 24.65              | 55.01                | 74             | -18.99          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4824            | 30.55             | 32.35                 | 4.12            | 28.44              | 38.58                | 54             | -15.42          | V    |
| 7236            | 24.70             | 36.08                 | 6.3             | 27.74              | 39.34                | 54             | -14.66          | V    |
| 9648            | 20.64             | 38.25                 | 7.91            | 24.65              | 42.15                | 54             | -11.85          | V    |
| 4824            | 30.41             | 32.35                 | 4.12            | 28.44              | 38.44                | 54             | -15.56          | H    |
| 7236            | 24.65             | 36.08                 | 6.3             | 27.74              | 39.29                | 54             | -14.71          | H    |
| 9648            | 20.84             | 38.25                 | 7.91            | 24.65              | 42.35                | 54             | -11.65          | H    |



Worst case 802.11b

| Test Mode: 2437 |                   |                       |                 |                    | Test channel: Middle |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4874            | 46.30             | 32.35                 | 4.12            | 28.44              | 54.33                | 74             | -19.67          | V    |
| 7311            | 38.94             | 36.08                 | 6.3             | 27.74              | 53.58                | 74             | -20.42          | V    |
| 9748            | 35.64             | 38.25                 | 7.91            | 24.65              | 57.15                | 74             | -16.85          | V    |
| 4874            | 43.24             | 32.35                 | 4.12            | 28.44              | 51.27                | 74             | -22.73          | H    |
| 7311            | 37.45             | 36.08                 | 6.3             | 27.74              | 52.09                | 74             | -21.91          | H    |
| 9748            | 34.68             | 38.25                 | 7.91            | 24.65              | 56.19                | 74             | -17.81          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4874            | 31.91             | 32.35                 | 4.12            | 28.44              | 39.94                | 54             | 31.91           | V    |
| 7311            | 24.73             | 36.08                 | 6.3             | 27.74              | 39.37                | 54             | 24.73           | V    |
| 9748            | 20.63             | 38.25                 | 7.91            | 24.65              | 42.14                | 54             | 20.63           | V    |
| 4874            | 30.58             | 32.35                 | 4.12            | 28.44              | 38.61                | 54             | 30.58           | H    |
| 7311            | 25.03             | 36.08                 | 6.3             | 27.74              | 39.67                | 54             | 25.03           | H    |
| 9748            | 21.16             | 38.25                 | 7.91            | 24.65              | 42.67                | 54             | 21.16           | H    |



Worst case 802.11b

| Test Mode: 2462 |                   |                       |                 |                    | Test channel: High |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|--------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4924            | 47.45             | 32.41                 | 4.14            | 28.42              | 55.58              | 74             | -18.42          | V    |
| 7386            | 38.06             | 36.15                 | 6.36            | 27.68              | 52.89              | 74             | -21.11          | V    |
| 9848            | 35.22             | 38.35                 | 7.97            | 24.33              | 57.21              | 74             | -16.79          | V    |
| 4924            | 42.51             | 32.41                 | 4.14            | 28.42              | 50.64              | 74             | -23.36          | H    |
| 7386            | 38.48             | 36.15                 | 6.36            | 27.68              | 53.31              | 74             | -20.69          | H    |
| 9848            | 33.74             | 38.35                 | 7.97            | 24.33              | 55.73              | 74             | -18.27          | H    |
| Average Value   |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4924            | 32.06             | 32.41                 | 4.14            | 28.42              | 40.19              | 54             | -13.81          | V    |
| 7386            | 23.45             | 36.15                 | 6.36            | 27.68              | 38.28              | 54             | -15.72          | V    |
| 9848            | 20.47             | 38.35                 | 7.97            | 24.33              | 42.46              | 54             | -11.54          | V    |
| 4924            | 30.43             | 32.41                 | 4.14            | 28.42              | 38.56              | 54             | -15.44          | H    |
| 7386            | 24.50             | 36.15                 | 6.36            | 27.68              | 39.33              | 54             | -14.67          | H    |
| 9848            | 20.71             | 38.35                 | 7.97            | 24.33              | 42.70              | 54             | -11.30          | H    |



Test model: DCD131

Worst case 802.11b

| Test Mode: 2412 |                   |                       |                 |                    | Test channel: Lowest |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4824            | 45.97             | 32.35                 | 4.12            | 28.44              | 54.00                | 74             | -20.00          | V    |
| 7236            | 38.07             | 36.08                 | 6.3             | 27.74              | 52.71                | 74             | -21.29          | V    |
| 9648            | 35.50             | 38.25                 | 7.91            | 24.65              | 57.01                | 74             | -16.99          | V    |
| 4824            | 42.84             | 32.35                 | 4.12            | 28.44              | 50.87                | 74             | -23.13          | H    |
| 7236            | 38.56             | 36.08                 | 6.3             | 27.74              | 53.20                | 74             | -20.80          | H    |
| 9648            | 34.29             | 38.25                 | 7.91            | 24.65              | 55.80                | 74             | -18.20          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4824            | 30.78             | 32.35                 | 4.12            | 28.44              | 38.81                | 54             | -15.19          | V    |
| 7236            | 24.92             | 36.08                 | 6.3             | 27.74              | 39.56                | 54             | -14.44          | V    |
| 9648            | 20.96             | 38.25                 | 7.91            | 24.65              | 42.47                | 54             | -11.53          | V    |
| 4824            | 30.02             | 32.35                 | 4.12            | 28.44              | 38.05                | 54             | -15.95          | H    |
| 7236            | 25.33             | 36.08                 | 6.3             | 27.74              | 39.97                | 54             | -14.03          | H    |
| 9648            | 21.67             | 38.25                 | 7.91            | 24.65              | 43.18                | 54             | -10.82          | H    |



Worst case 802.11b

| Test Mode: 2437 |                   |                       |                 |                    | Test channel: Middle |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4874            | 47.31             | 32.35                 | 4.12            | 28.44              | 55.34                | 74             | -18.66          | V    |
| 7311            | 38.54             | 36.08                 | 6.3             | 27.74              | 53.18                | 74             | -20.82          | V    |
| 9748            | 35.35             | 38.25                 | 7.91            | 24.65              | 56.86                | 74             | -17.14          | V    |
| 4874            | 43.73             | 32.35                 | 4.12            | 28.44              | 51.76                | 74             | -22.24          | H    |
| 7311            | 39.24             | 36.08                 | 6.3             | 27.74              | 53.88                | 74             | -20.12          | H    |
| 9748            | 34.70             | 38.25                 | 7.91            | 24.65              | 56.21                | 74             | -17.79          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4874            | 32.03             | 32.35                 | 4.12            | 28.44              | 40.06                | 54             | -13.94          | V    |
| 7311            | 24.34             | 36.08                 | 6.3             | 27.74              | 38.98                | 54             | -15.02          | V    |
| 9748            | 20.23             | 38.25                 | 7.91            | 24.65              | 41.74                | 54             | -12.26          | V    |
| 4874            | 30.11             | 32.35                 | 4.12            | 28.44              | 38.14                | 54             | -15.86          | H    |
| 7311            | 25.28             | 36.08                 | 6.3             | 27.74              | 39.92                | 54             | -14.08          | H    |
| 9748            | 21.02             | 38.25                 | 7.91            | 24.65              | 42.53                | 54             | -11.47          | H    |



Worst case 802.11b

|                 |                   |                       |                 |                    |                    |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|--------------------|----------------|-----------------|------|
| Test Mode: 2462 |                   |                       |                 |                    | Test channel: High |                |                 |      |
| Peak Value      |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4924            | 47.46             | 32.41                 | 4.14            | 28.42              | 55.59              | 74             | -18.41          | V    |
| 7386            | 38.65             | 36.15                 | 6.36            | 27.68              | 53.48              | 74             | -20.52          | V    |
| 9848            | 35.04             | 38.35                 | 7.97            | 24.33              | 57.03              | 74             | -16.97          | V    |
| 4924            | 43.44             | 32.41                 | 4.14            | 28.42              | 51.57              | 74             | -22.43          | H    |
| 7386            | 39.03             | 36.15                 | 6.36            | 27.68              | 53.86              | 74             | -20.14          | H    |
| 9848            | 33.49             | 38.35                 | 7.97            | 24.33              | 55.48              | 74             | -18.52          | H    |
| Average Value   |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4924            | 31.81             | 32.41                 | 4.14            | 28.42              | 39.94              | 54             | -14.06          | V    |
| 7386            | 23.77             | 36.15                 | 6.36            | 27.68              | 38.60              | 54             | -15.40          | V    |
| 9848            | 21.33             | 38.35                 | 7.97            | 24.33              | 43.32              | 54             | -10.68          | V    |
| 4924            | 30.23             | 32.41                 | 4.14            | 28.42              | 38.36              | 54             | -15.64          | H    |
| 7386            | 24.51             | 36.15                 | 6.36            | 27.68              | 39.34              | 54             | -14.66          | H    |
| 9848            | 20.77             | 38.35                 | 7.97            | 24.33              | 42.76              | 54             | -11.24          | H    |



Test model: DCS100

Worst case 802.11b

| Test Mode: 2412 |                   |                       |                 |                    | Test channel: Lowest |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4824            | 45.53             | 32.35                 | 4.12            | 28.44              | 53.56                | 74             | -20.44          | V    |
| 7236            | 38.33             | 36.08                 | 6.3             | 27.74              | 52.97                | 74             | -21.03          | V    |
| 9648            | 35.80             | 38.25                 | 7.91            | 24.65              | 57.31                | 74             | -16.69          | V    |
| 4824            | 42.95             | 32.35                 | 4.12            | 28.44              | 50.98                | 74             | -23.02          | H    |
| 7236            | 39.02             | 36.08                 | 6.3             | 27.74              | 53.66                | 74             | -20.34          | H    |
| 9648            | 35.15             | 38.25                 | 7.91            | 24.65              | 56.66                | 74             | -17.34          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4824            | 32.14             | 32.35                 | 4.12            | 28.44              | 40.17                | 54             | -13.83          | V    |
| 7236            | 24.74             | 36.08                 | 6.3             | 27.74              | 39.38                | 54             | -14.62          | V    |
| 9648            | 20.57             | 38.25                 | 7.91            | 24.65              | 42.08                | 54             | -11.92          | V    |
| 4824            | 30.27             | 32.35                 | 4.12            | 28.44              | 38.30                | 54             | -15.70          | H    |
| 7236            | 24.37             | 36.08                 | 6.3             | 27.74              | 39.01                | 54             | -14.99          | H    |
| 9648            | 20.94             | 38.25                 | 7.91            | 24.65              | 42.45                | 54             | -11.55          | H    |



Worst case 802.11b

| Test Mode: 2437 |                   |                       |                 |                    | Test channel: Middle |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4874            | 45.53             | 32.35                 | 4.12            | 28.44              | 53.56                | 74             | -20.44          | V    |
| 7311            | 38.40             | 36.08                 | 6.3             | 27.74              | 53.04                | 74             | -20.96          | V    |
| 9748            | 35.18             | 38.25                 | 7.91            | 24.65              | 56.69                | 74             | -17.31          | V    |
| 4874            | 43.24             | 32.35                 | 4.12            | 28.44              | 51.27                | 74             | -22.73          | H    |
| 7311            | 38.94             | 36.08                 | 6.3             | 27.74              | 53.58                | 74             | -20.42          | H    |
| 9748            | 35.18             | 38.25                 | 7.91            | 24.65              | 56.69                | 74             | -17.31          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4874            | 30.82             | 32.35                 | 4.12            | 28.44              | 38.85                | 54             | -15.15          | V    |
| 7311            | 24.02             | 36.08                 | 6.3             | 27.74              | 38.66                | 54             | -15.34          | V    |
| 9748            | 20.07             | 38.25                 | 7.91            | 24.65              | 41.58                | 54             | -12.42          | V    |
| 4874            | 30.08             | 32.35                 | 4.12            | 28.44              | 38.11                | 54             | -15.89          | H    |
| 7311            | 25.18             | 36.08                 | 6.3             | 27.74              | 39.82                | 54             | -14.18          | H    |
| 9748            | 21.46             | 38.25                 | 7.91            | 24.65              | 42.97                | 54             | -11.03          | H    |



Worst case 802.11b

|                 |                   |                       |                 |                    |                    |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|--------------------|----------------|-----------------|------|
| Test Mode: 2462 |                   |                       |                 |                    | Test channel: High |                |                 |      |
| Peak Value      |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4924            | 46.08             | 32.41                 | 4.14            | 28.42              | 54.21              | 74             | -19.79          | V    |
| 7386            | 38.34             | 36.15                 | 6.36            | 27.68              | 53.17              | 74             | -20.83          | V    |
| 9848            | 35.14             | 38.35                 | 7.97            | 24.33              | 57.13              | 74             | -16.87          | V    |
| 4924            | 43.22             | 32.41                 | 4.14            | 28.42              | 51.35              | 74             | -22.65          | H    |
| 7386            | 38.96             | 36.15                 | 6.36            | 27.68              | 53.79              | 74             | -20.21          | H    |
| 9848            | 33.97             | 38.35                 | 7.97            | 24.33              | 55.96              | 74             | -18.04          | H    |
| Average Value   |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4924            | 30.45             | 32.41                 | 4.14            | 28.42              | 38.58              | 54             | -15.42          | V    |
| 7386            | 23.22             | 36.15                 | 6.36            | 27.68              | 38.05              | 54             | -15.95          | V    |
| 9848            | 21.26             | 38.35                 | 7.97            | 24.33              | 43.25              | 54             | -10.75          | V    |
| 4924            | 30.24             | 32.41                 | 4.14            | 28.42              | 38.37              | 54             | -15.63          | H    |
| 7386            | 25.70             | 36.15                 | 6.36            | 27.68              | 40.53              | 54             | -13.47          | H    |
| 9848            | 21.36             | 38.35                 | 7.97            | 24.33              | 43.35              | 54             | -10.65          | H    |



Test model: DCS105

Worst case 802.11b

| Test Mode: 2412 |                   |                       |                 |                    | Test channel: Lowest |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4824            | 46.96             | 32.35                 | 4.12            | 28.44              | 54.99                | 74             | -19.01          | V    |
| 7236            | 38.28             | 36.08                 | 6.3             | 27.74              | 52.92                | 74             | -21.08          | V    |
| 9648            | 35.69             | 38.25                 | 7.91            | 24.65              | 57.20                | 74             | -16.80          | V    |
| 4824            | 43.54             | 32.35                 | 4.12            | 28.44              | 51.57                | 74             | -22.43          | H    |
| 7236            | 37.84             | 36.08                 | 6.3             | 27.74              | 52.48                | 74             | -21.52          | H    |
| 9648            | 35.24             | 38.25                 | 7.91            | 24.65              | 56.75                | 74             | -17.25          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4824            | 31.05             | 32.35                 | 4.12            | 28.44              | 39.08                | 54             | -14.92          | V    |
| 7236            | 24.56             | 36.08                 | 6.3             | 27.74              | 39.20                | 54             | -14.80          | V    |
| 9648            | 20.27             | 38.25                 | 7.91            | 24.65              | 41.78                | 54             | -12.22          | V    |
| 4824            | 30.49             | 32.35                 | 4.12            | 28.44              | 38.52                | 54             | -15.48          | H    |
| 7236            | 25.22             | 36.08                 | 6.3             | 27.74              | 39.86                | 54             | -14.14          | H    |
| 9648            | 20.50             | 38.25                 | 7.91            | 24.65              | 42.01                | 54             | -11.99          | H    |



Worst case 802.11b

| Test Mode: 2437 |                   |                       |                 |                    | Test channel: Middle |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4874            | 46.46             | 32.35                 | 4.12            | 28.44              | 54.49                | 74             | -19.51          | V    |
| 7311            | 38.33             | 36.08                 | 6.3             | 27.74              | 52.97                | 74             | -21.03          | V    |
| 9748            | 35.00             | 38.25                 | 7.91            | 24.65              | 56.51                | 74             | -17.49          | V    |
| 4874            | 43.96             | 32.35                 | 4.12            | 28.44              | 51.99                | 74             | -22.01          | H    |
| 7311            | 37.75             | 36.08                 | 6.3             | 27.74              | 52.39                | 74             | -21.61          | H    |
| 9748            | 35.02             | 38.25                 | 7.91            | 24.65              | 56.53                | 74             | -17.47          | H    |
| Average Value   |                   |                       |                 |                    |                      |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)       | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4874            | 31.98             | 32.35                 | 4.12            | 28.44              | 40.01                | 54             | -13.99          | V    |
| 7311            | 24.03             | 36.08                 | 6.3             | 27.74              | 38.67                | 54             | -15.33          | V    |
| 9748            | 20.25             | 38.25                 | 7.91            | 24.65              | 41.76                | 54             | -12.24          | V    |
| 4874            | 30.60             | 32.35                 | 4.12            | 28.44              | 38.63                | 54             | -15.37          | H    |
| 7311            | 24.49             | 36.08                 | 6.3             | 27.74              | 39.13                | 54             | -14.87          | H    |
| 9748            | 21.69             | 38.25                 | 7.91            | 24.65              | 43.20                | 54             | -10.80          | H    |



## Worst case 802.11b

| Test Mode: 2462 |                   |                       |                 |                    | Test channel: High |                |                 |      |
|-----------------|-------------------|-----------------------|-----------------|--------------------|--------------------|----------------|-----------------|------|
| Peak Value      |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4924            | 46.96             | 32.41                 | 4.14            | 28.42              | 55.09              | 74             | -18.91          | V    |
| 7386            | 38.25             | 36.15                 | 6.36            | 27.68              | 53.08              | 74             | -20.92          | V    |
| 9848            | 35.95             | 38.35                 | 7.97            | 24.33              | 57.94              | 74             | -16.06          | V    |
| 4924            | 42.54             | 32.41                 | 4.14            | 28.42              | 50.67              | 74             | -23.33          | H    |
| 7386            | 37.98             | 36.15                 | 6.36            | 27.68              | 52.81              | 74             | -21.19          | H    |
| 9848            | 35.15             | 38.35                 | 7.97            | 24.33              | 57.14              | 74             | -16.86          | H    |
| Average Value   |                   |                       |                 |                    |                    |                |                 |      |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m)     | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4924            | 31.47             | 32.41                 | 4.14            | 28.42              | 39.60              | 54             | -14.40          | V    |
| 7386            | 24.04             | 36.15                 | 6.36            | 27.68              | 38.87              | 54             | -15.13          | V    |
| 9848            | 21.05             | 38.35                 | 7.97            | 24.33              | 43.04              | 54             | -10.96          | V    |
| 4924            | 30.94             | 32.41                 | 4.14            | 28.42              | 39.07              | 54             | -14.93          | H    |
| 7386            | 24.78             | 36.15                 | 6.36            | 27.68              | 39.61              | 54             | -14.39          | H    |
| 9848            | 20.86             | 38.35                 | 7.97            | 24.33              | 42.85              | 54             | -11.15          | H    |

## Note:

1. The testing has been conformed to  $10 \times 2462 \text{ MHz} = 24620 \text{ MHz}$ .
2. All other emissions more than 30dB below the limit.
3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.  
Emission Level = Reading + Factor  
Margin=Emission Level-Limit
4. X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz  
 2.4G WiFi (802.11b/g/n) mode have been tested, and the worst result(802.11b) was report as below  
 Test Mode: Worst case 802.11b Low Channel 2412MHz

| Test Mode: 802.11b Low Channel 2412MHz |                   |                       |                 |                    |                |                |           |              | Test Value |
|----------------------------------------|-------------------|-----------------------|-----------------|--------------------|----------------|----------------|-----------|--------------|------------|
| Frequency (MHz)                        | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over (dB) | Polarity H/V |            |
| 2310                                   | 48.46             | 28.67                 | 6.72            | 37.26              | 46.59          | 74             | -27.41    | H            | Peak       |
| 2390                                   | 59.93             | 28.08                 | 6.81            | 37.12              | 57.70          | 74             | -16.30    | H            |            |
| 2310                                   | 48.13             | 28.67                 | 6.72            | 37.26              | 46.26          | 74             | -27.74    | V            |            |
| 2390                                   | 55.31             | 28.08                 | 6.81            | 37.12              | 53.08          | 74             | -20.92    | V            |            |
| 2310                                   | 40.32             | 28.67                 | 6.72            | 37.26              | 38.45          | 54             | -15.55    | H            | Average    |
| 2390                                   | 44.30             | 28.08                 | 6.81            | 37.12              | 42.07          | 54             | -11.93    | H            |            |
| 2310                                   | 39.64             | 28.67                 | 6.72            | 37.26              | 37.77          | 54             | -16.23    | V            |            |
| 2390                                   | 44.03             | 28.08                 | 6.81            | 37.12              | 41.80          | 54             | -12.20    | V            |            |

Test Mode: Worst case 802.11g High Channel 2462MHz

| Test Mode: 802.11b High Channel 2462MHz |                   |                       |                 |                    |                |                |           |              | Test Value |
|-----------------------------------------|-------------------|-----------------------|-----------------|--------------------|----------------|----------------|-----------|--------------|------------|
| Frequency (MHz)                         | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over (dB) | Polarity H/V |            |
| 2483.5                                  | 59.80             | 27.38                 | 6.15            | 36.29              | 57.04          | 74             | -16.96    | H            | Peak       |
| 2500                                    | 48.73             | 27.43                 | 6.68            | 36.79              | 46.05          | 74             | -27.95    | H            |            |
| 2483.5                                  | 60.04             | 27.38                 | 6.15            | 36.29              | 57.28          | 74             | -16.72    | V            |            |
| 2500                                    | 49.70             | 27.43                 | 6.68            | 36.79              | 47.02          | 74             | -26.98    | V            |            |
| 2483.5                                  | 41.19             | 27.38                 | 6.15            | 36.29              | 38.43          | 54             | -15.57    | H            | Average    |
| 2500                                    | 39.21             | 27.43                 | 6.68            | 36.79              | 36.53          | 54             | -17.47    | H            |            |
| 2483.5                                  | 43.39             | 27.38                 | 6.15            | 36.29              | 40.63          | 54             | -13.37    | V            |            |
| 2500                                    | 39.80             | 27.43                 | 6.68            | 36.79              | 37.12          | 54             | -16.88    | V            |            |

**Test Frequency: From 18GHz to 25GHz**



Report No.: PTC26061815001E-FC01

The measurements were more than 20dB below the limit and not reported.



## 7 Conducted Spurious Emission

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | : FCC CFR47 Part 15 Section 15.247                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test Method      | : ANSI C63.10-2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test Limit       | : Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. 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. Attenuation below the general limits specified in §15.209(a) is not required. 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 in §15.209(a) (see §15.205(c)). |

### 7.1 Test Procedure

#### Reference Level:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum; Set to the maximum power setting and enable the EUT transmit continuously.
2. 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 = No faster than coupled (auto) time.
  - 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

#### Spurious Emissions Measurement:

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

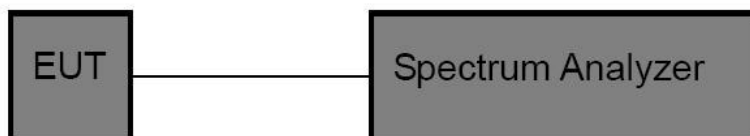
NOTE—the number of points can also be increased for large spans to retain frequency resolution

- b) Set the RBW = 100 kHz.
- c) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.



## 7.2 Test Setup



## 7.3 Test Result

| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | 0~Reference     | -0.53          | -0.53        | ---         | PASS    |
| 11B       | Ant1    | 2412           | 30~1000         | -0.53          | -53.1        | ≤-20.53     | PASS    |
| 11B       | Ant1    | 2412           | 1000~26500      | -0.53          | -23.34       | ≤-20.53     | PASS    |
| 11B       | Ant1    | 2437           | 0~Reference     | 0.04           | 0.04         | ---         | PASS    |
| 11B       | Ant1    | 2437           | 30~1000         | 0.04           | -51.71       | ≤-19.96     | PASS    |
| 11B       | Ant1    | 2437           | 1000~26500      | 0.04           | -26.01       | ≤-19.96     | PASS    |
| 11B       | Ant1    | 2462           | 0~Reference     | 0.11           | 0.11         | ---         | PASS    |
| 11B       | Ant1    | 2462           | 30~1000         | 0.11           | -52.91       | ≤-19.89     | PASS    |
| 11B       | Ant1    | 2462           | 1000~26500      | 0.11           | -29.33       | ≤-19.89     | PASS    |
| 11G       | Ant1    | 2412           | 0~Reference     | -9.00          | -9.00        | ---         | PASS    |
| 11G       | Ant1    | 2412           | 30~1000         | -9.00          | -53.01       | ≤-29        | PASS    |
| 11G       | Ant1    | 2412           | 1000~26500      | -9.00          | -38.31       | ≤-29        | PASS    |
| 11G       | Ant1    | 2437           | 0~Reference     | -7.11          | -7.11        | ---         | PASS    |
| 11G       | Ant1    | 2437           | 30~1000         | -7.11          | -51.61       | ≤-27.11     | PASS    |
| 11G       | Ant1    | 2437           | 1000~26500      | -7.11          | -41.05       | ≤-27.11     | PASS    |
| 11G       | Ant1    | 2462           | 0~Reference     | -7.62          | -7.62        | ---         | PASS    |
| 11G       | Ant1    | 2462           | 30~1000         | -7.62          | -52.66       | ≤-27.62     | PASS    |
| 11G       | Ant1    | 2462           | 1000~26500      | -7.62          | -42.58       | ≤-27.62     | PASS    |
| 11N20SISO | Ant1    | 2412           | 0~Reference     | -8.45          | -8.45        | ---         | PASS    |
| 11N20SISO | Ant1    | 2412           | 30~1000         | -8.45          | -52.55       | ≤-28.45     | PASS    |
| 11N20SISO | Ant1    | 2412           | 1000~26500      | -8.45          | -39.71       | ≤-28.45     | PASS    |
| 11N20SISO | Ant1    | 2437           | 0~Reference     | -7.09          | -7.09        | ---         | PASS    |
| 11N20SISO | Ant1    | 2437           | 30~1000         | -7.09          | -51.56       | ≤-27.09     | PASS    |
| 11N20SISO | Ant1    | 2437           | 1000~26500      | -7.09          | -41.16       | ≤-27.09     | PASS    |
| 11N20SISO | Ant1    | 2462           | 0~Reference     | -3.74          | -3.74        | ---         | PASS    |
| 11N20SISO | Ant1    | 2462           | 30~1000         | -3.74          | -52.42       | ≤-23.74     | PASS    |
| 11N20SISO | Ant1    | 2462           | 1000~26500      | -3.74          | -41.28       | ≤-23.74     | PASS    |