

## TEST REPORT

**Product** : Voice Lighted Mirror  
**Trade mark** : Kohler  
99571-VLAN-NA,  
**Model/Type reference** : 99572-VLAN-NA,  
99573-VLAN-NA  
**Serial Number** : N/A  
**Report Number** : EED32K00040203  
**FCC ID** : N82-KOHLER026  
**Date of Issue** : Apr. 13, 2018  
**Test Standards** : 47 CFR Part 15 Subpart C  
**Test result** : PASS

Prepared for:

**Kohler Co.**

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Prepared by:

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Date:

Apr. 13, 2018

Check No.:3096379408



## 2 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | Apr. 13, 2018 | Original    |
|             |               |             |
|             |               |             |

### 3 Test Summary

| Test Item                                                                | Test Requirement                                   | Test method      | Result |
|--------------------------------------------------------------------------|----------------------------------------------------|------------------|--------|
| <b>Antenna Requirement</b>                                               | 47 CFR Part 15 Subpart C Section 15.203/15.247 (c) | ANSI C63.10-2013 | PASS   |
| <b>AC Power Line Conducted Emission</b>                                  | 47 CFR Part 15 Subpart C Section 15.207            | ANSI C63.10-2013 | PASS   |
| <b>Conducted Peak Output Power</b>                                       | 47 CFR Part 15 Subpart C Section 15.247 (b)(3)     | ANSI C63.10-2013 | PASS   |
| <b>6dB Occupied Bandwidth</b>                                            | 47 CFR Part 15 Subpart C Section 15.247 (a)(2)     | ANSI C63.10-2013 | PASS   |
| <b>Power Spectral Density</b>                                            | 47 CFR Part 15 Subpart C Section 15.247 (e)        | ANSI C63.10-2013 | PASS   |
| <b>Band-edge for RF Conducted Emissions</b>                              | 47 CFR Part 15 Subpart C Section 15.247(d)         | ANSI C63.10-2013 | PASS   |
| <b>RF Conducted Spurious Emissions</b>                                   | 47 CFR Part 15 Subpart C Section 15.247(d)         | ANSI C63.10-2013 | PASS   |
| <b>Radiated Spurious Emissions</b>                                       | 47 CFR Part 15 Subpart C Section 15.205/15.209     | ANSI C63.10-2013 | PASS   |
| <b>Restricted bands around fundamental frequency (Radiated Emission)</b> | 47 CFR Part 15 Subpart C Section 15.205/15.209     | ANSI C63.10-2013 | PASS   |

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

The tested sample(s) and the sample information are provided by the client.

Model No.:99571-VLAN-NA, 99572-VLAN-NA, 99573-VLAN-NA

Only the model 99571-VLAN-NA was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being the appearance and size.

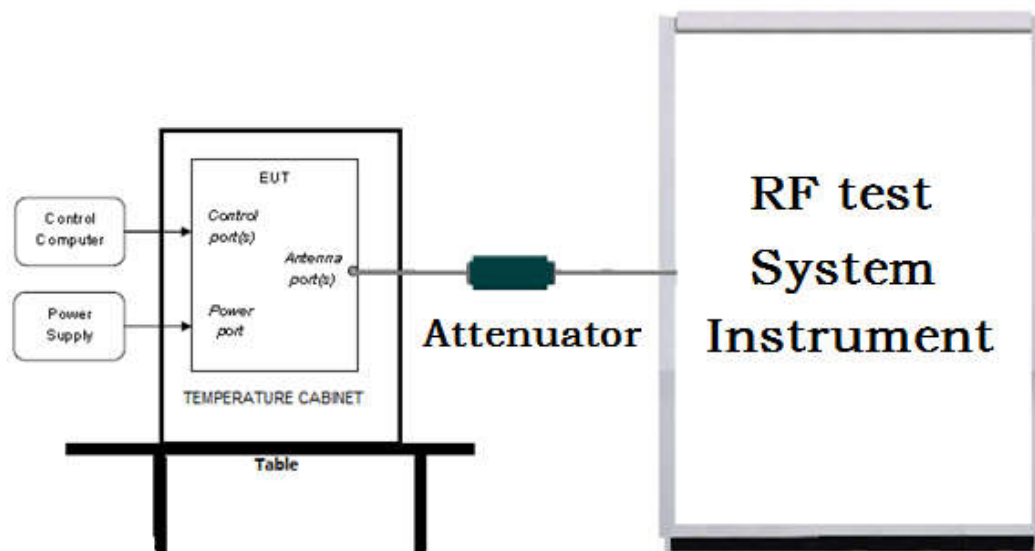
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## 5 Test Requirement

### 5.1 Test setup

#### 5.1.1 For Conducted test setup



#### 5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

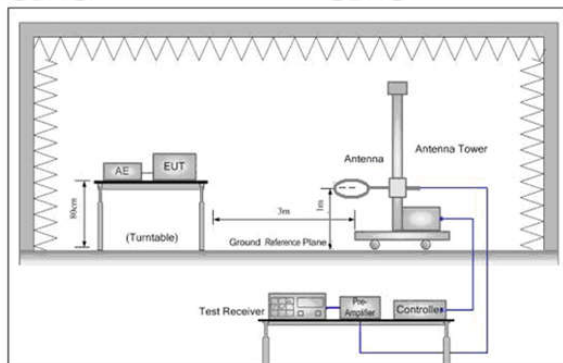


Figure 1. Below 30MHz

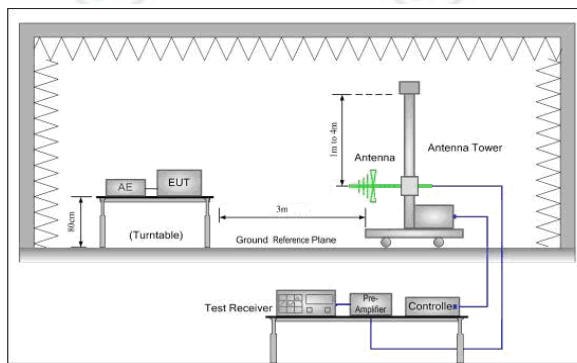


Figure 2. 30MHz to 1GHz

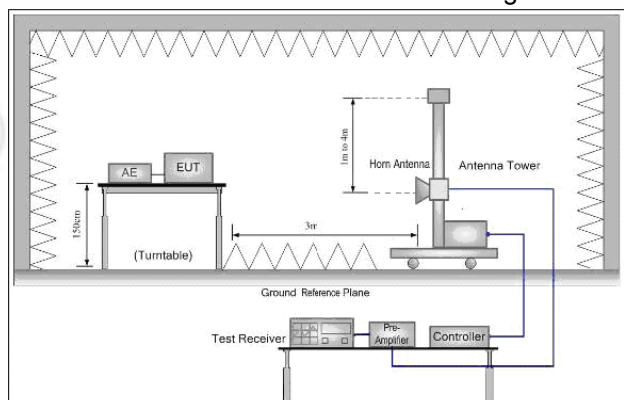
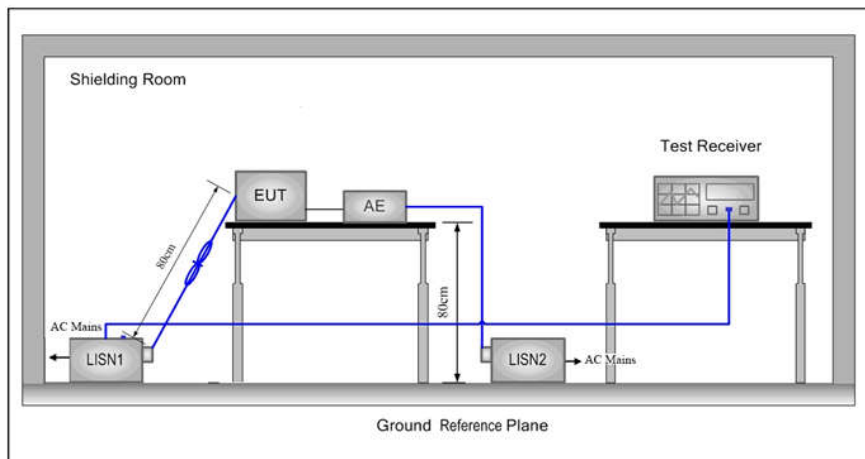


Figure 3. Above 1GHz

### 5.1.3 For Conducted Emissions test setup

#### Conducted Emissions setup



## 5.2 Test Environment

| Operating Environment: |          |
|------------------------|----------|
| Temperature:           | 24.1 °C  |
| Humidity:              | 58 % RH  |
| Atmospheric Pressure:  | 1010mbar |

## 5.3 Test Condition

Test channel:

| Test Mode         | Tx/Rx                                                                 | RF Channel |           |           |
|-------------------|-----------------------------------------------------------------------|------------|-----------|-----------|
|                   |                                                                       | Low(L)     | Middle(M) | High(H)   |
| 802.11b/g/n(HT20) | 2412MHz ~2462 MHz                                                     | Channel 1  | Channel 6 | Channel11 |
|                   |                                                                       | 2412MHz    | 2437MHz   | 2462MHz   |
| 802.11n(HT40)     | 2422MHz ~2452 MHz                                                     | Channel 1  | Channel 4 | Channel7  |
|                   |                                                                       | 2422MHz    | 2437MHz   | 2452MHz   |
| TX mode:          | The EUT transmitted the continuous signal at the specific channel(s). |            |           |           |

Test mode:

Pre-scan under all rate at lowest channel 1

|            |                |        |          |        |        |         |           |         |
|------------|----------------|--------|----------|--------|--------|---------|-----------|---------|
| Mode       | 802.11b        |        |          |        |        |         |           |         |
| Data Rate  | 1Mbps          | 2Mbps  | 5.5Mbps  | 11Mbps |        |         |           |         |
| Power(dBm) | 17.56          | 17.98  | 17.63    | 18.33  |        |         |           |         |
| Mode       | 802.11g        |        |          |        |        |         |           |         |
| Data Rate  | 6Mbps          | 9Mbps  | 12Mbps   | 18Mbps | 24Mbps | 36Mbps  | 48Mbps    | 54Mbps  |
| Power(dBm) | 15.77          | 15.65  | 15.23    | 15.01  | 15.18  | 15.34   | 15.54     | 15.40   |
| Mode       | 802.11n (HT20) |        |          |        |        |         |           |         |
| Data Rate  | 6.5Mbps        | 13Mbps | 19.5Mbps | 26Mbps | 39Mbps | 52Mbps  | 58.5Mbps  | 65Mbps  |
| Power(dBm) | 15.58          | 15.01  | 15.15    | 15.36  | 15.06  | 15.00   | 14.89     | 14.97   |
| Mode       | 802.11n (HT40) |        |          |        |        |         |           |         |
| Data Rate  | 13.5Mbps       | 27Mbps | 40.5Mbps | 54Mbps | 81Mbps | 108Mbps | 121.5Mbps | 135Mbps |
| Power(dBm) | 14.71          | 14.62  | 14.34    | 14.18  | 14.04  | 14.11   | 13.98     | 14.16   |

Through Pre-scan, 11Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).

## 6 General Information

### 6.1 Client Information

|                          |                                                 |
|--------------------------|-------------------------------------------------|
| Applicant:               | Kohler Co.                                      |
| Address of Applicant:    | 444 Highland Drive, Kohler, Wisconsin 53044 USA |
| Manufacturer:            | Kohler Co.                                      |
| Address of Manufacturer: | 444 Highland Drive, Kohler, Wisconsin 53044 USA |

### 6.2 General Description of EUT

|                                  |                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------|
| Product Name:                    | Voice Lighted Mirror                                                               |
| Model No.(EUT):                  | 99571-VLAN-NA, 99572-VLAN-NA, 99573-VLAN-NA                                        |
| Test Model No.:                  | 99571-VLAN-NA                                                                      |
| Trade Mark:                      | Kohler                                                                             |
| EUT Supports Radios application: | BT 4.0 Dual mode, 2402-2480MHz;<br>WiFi 802.11b/g/n(20MHz)/n(40MHz) ,2412-2462MHz; |
| Power Supply:                    | AC 120V, 60Hz                                                                      |
| Sample Received Date:            | Mar. 02, 2018                                                                      |
| Sample tested Date:              | Mar. 02, 2018 to Apr. 12, 2018                                                     |

### 6.3 Product Specification subjective to this standard

|                        |                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation Frequency:   | IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz<br>IEEE 802.11n(HT40): 2422MHz to 2452MHz                                                                           |
| Channel Numbers:       | IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels<br>IEEE 802.11n HT40: 7 Channels                                                                                |
| Channel Separation:    | 5MHz                                                                                                                                                           |
| Type of Modulation:    | IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)<br>IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK)<br>IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK,BPSK) |
| Sample Type:           | Fixed production                                                                                                                                               |
| Test Power Grade:      | (manufacturer declare)802.11b:16; 802.11g/n:0F                                                                                                                 |
| Test Software of EUT:  | (manufacturer declare)MT7628 QA 0.0.0.96                                                                                                                       |
| Hardware Version:      | V02A(manufacturer declare )                                                                                                                                    |
| Firmware version:      | V29(manufacturer declare )                                                                                                                                     |
| Antenna Type and Gain: | Type: Balun antenna; Gain:2.5dBi                                                                                                                               |
| Test Voltage:          | AC 120V, 60Hz                                                                                                                                                  |

### 6.4 Description of Support Units

The EUT has been tested independently.

## 6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax: +86 (0) 755 3368 3385

No tests were sub-contracted.

FCC Designation No.: CN1164

## 6.6 Deviation from Standards

None.

## 6.7 Abnormalities from Standard Conditions

None.

## 6.8 Other Information Requested by the Customer

None.

## 6.9 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | $7.9 \times 10^{-8}$    |
| 2   | RF power, conducted             | 0.31dB (30MHz-1GHz)     |
|     |                                 | 0.57dB (1GHz-18GHz)     |
| 3   | Radiated Spurious emission test | 4.5dB (30MHz-1GHz)      |
|     |                                 | 4.8dB (1GHz-12.75GHz)   |
| 4   | Conduction emission             | 3.6dB (9kHz to 150kHz)  |
|     |                                 | 3.2dB (150kHz to 30MHz) |
| 5   | Temperature test                | 0.64°C                  |
| 6   | Humidity test                   | 2.8%                    |
| 7   | DC power voltages               | 0.025%                  |

## 7 Equipment List

| RF test system                      |              |                                  |               |                        |                            |
|-------------------------------------|--------------|----------------------------------|---------------|------------------------|----------------------------|
| Equipment                           | Manufacturer | Model No.                        | Serial Number | Cal. Date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Signal Generator                    | Keysight     | E8257D                           | MY53401106    | 03-13-2018             | 03-12-2019                 |
| Spectrum Analyzer                   | Keysight     | N9010A                           | MY54510339    | 03-13-2018             | 03-12-2019                 |
| Signal Generator                    | Keysight     | N5182B                           | MY53051549    | 03-13-2018             | 03-12-2019                 |
| High-pass filter                    | Sinoscite    | FL3CX03WG<br>18NM12-<br>0398-002 | ---           | 01-10-2018             | 01-09-2019                 |
| DC Power                            | Keysight     | E3642A                           | MY54426035    | 03-13-2018             | 03-12-2019                 |
| power meter &<br>power sensor       | R&S          | OSP120                           | 101374        | 03-13-2018             | 03-12-2019                 |
| RF control unit                     | JS Tonscend  | JS0806-2                         | 158060006     | 03-13-2018             | 03-12-2019                 |
| Temperature /<br>Humidity Indicator | Defu         | TH128                            | ---           | 07-08-2017             | 07-07-2018                 |

| 3M Semi/full-anechoic Chamber        |              |                 |               |                        |                            |
|--------------------------------------|--------------|-----------------|---------------|------------------------|----------------------------|
| Equipment                            | Manufacturer | Model No.       | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| 3M<br>Chamber&Accessory<br>Equipment | TDK          | SAC-3           | ---           | 06-04-2016             | 06-03-2019                 |
| Spectrum Analyzer                    | Agilent      | E4443A          | MY45300910    | 11-16-2017             | 11-15-2018                 |
| Receiver                             | R&S          | ESCI            | 100435        | 06-14-2017             | 06-13-2018                 |
| TRILOG Broadband<br>Antenna          | Schwarzbeck  | VULB 9163       | 9163-618      | 08-15-2017             | 08-14-2018                 |
| Spectrum Analyzer                    | R&S          | FSP40           | 100416        | 06-13-2017             | 06-12-2018                 |
| Microwave<br>Preamplifier            | JS Tonscend  | EMC051845<br>SE | 980380        | 01-19-2018             | 01-18-2019                 |
| Loop Antenna                         | ETS-LINDGREN | 6502            | 00071730      | 06-22-2017             | 06-21-2019                 |
| Horn Antenna                         | ETS-LINGREN  | 3117            | 00057407      | 07-20-2015             | 07-18-2018                 |
| Double ridge horn<br>antenna         | A.H.SYSTEMS  | SAS-574         | 6042          | 06-30-2015             | 06-28-2018                 |
| Pre-amplifier                        | A.H.SYSTEMS  | PAP-1840-60     | 6041          | 06-30-2015             | 06-28-2018                 |
| Temperature/ Humidity<br>Indicator   | TAYLOR       | 1451            | 1905          | 05-08-2017             | 05-07-2018                 |

| Conducted disturbance Test      |              |           |               |                        |                            |
|---------------------------------|--------------|-----------|---------------|------------------------|----------------------------|
| Equipment                       | Manufacturer | Model No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Receiver                        | R&S          | ESCI      | 100009        | 06-14-2017             | 06-13-2018                 |
| Temperature/ Humidity Indicator | TAYLOR       | 1451      | 1905          | 06-14-2017             | 06-13-2018                 |
| LISN                            | schwarzbeck  | NNLK8121  | 8121-529      | 06-13-2017             | 06-12-2018                 |

## 8 Radio Technical Requirements Specification

### Reference documents for testing:

| No. | Identity         | Document Title                                                     |
|-----|------------------|--------------------------------------------------------------------|
| 1   | FCC Part15C      | Subpart C-Intentional Radiators                                    |
| 2   | ANSI C63.10-2013 | American National Standard for Testing Unlicensed Wireless Devices |

### Test Results List:

| Test Requirement                  | Test method | Test item                                                         | Verdict | Note        |
|-----------------------------------|-------------|-------------------------------------------------------------------|---------|-------------|
| Part15C Section 15.247 (b)(3)     | ANSI C63.10 | Conducted Peak Output Power                                       | PASS    | Appendix A) |
| Part15C Section 15.247 (a)(2)     | ANSI C63.10 | 6dB Occupied Bandwidth                                            | PASS    | Appendix B) |
| Part15C Section 15.247(d)         | ANSI C63.10 | Band-edge for RF Conducted Emissions                              | PASS    | Appendix C) |
| Part15C Section 15.247(d)         | ANSI C63.10 | RF Conducted Spurious Emissions                                   | PASS    | Appendix D) |
| Part15C Section 15.247 (e)        | ANSI C63.10 | Power Spectral Density                                            | PASS    | Appendix E) |
| Part15C Section 15.203/15.247 (c) | ANSI C63.10 | Antenna Requirement                                               | PASS    | Appendix F) |
| Part15C Section 15.207            | ANSI C63.10 | AC Power Line Conducted Emission                                  | PASS    | Appendix G) |
| Part15C Section 15.205/15.209     | ANSI C63.10 | Restricted bands around fundamental frequency (Radiated Emission) | PASS    | Appendix H) |
| Part15C Section 15.205/15.209     | ANSI C63.10 | Radiated Spurious Emissions                                       | PASS    | Appendix I) |

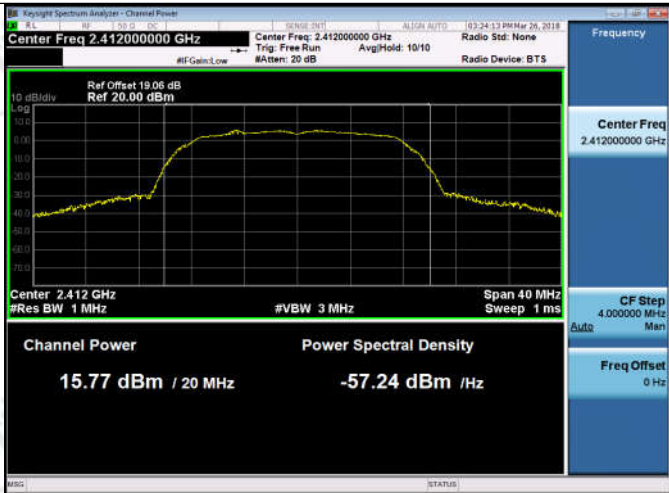
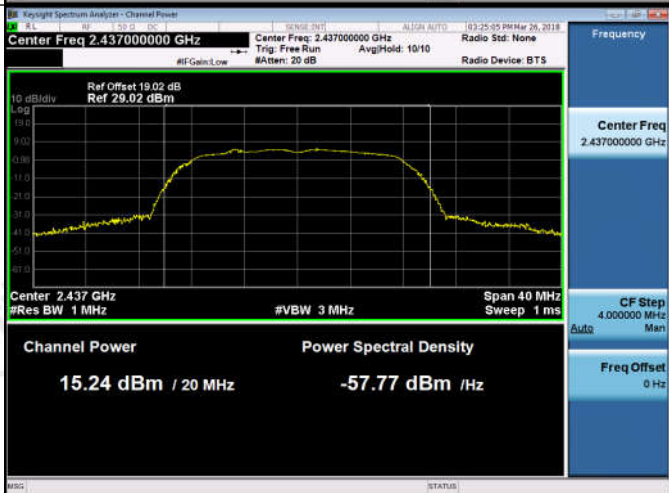
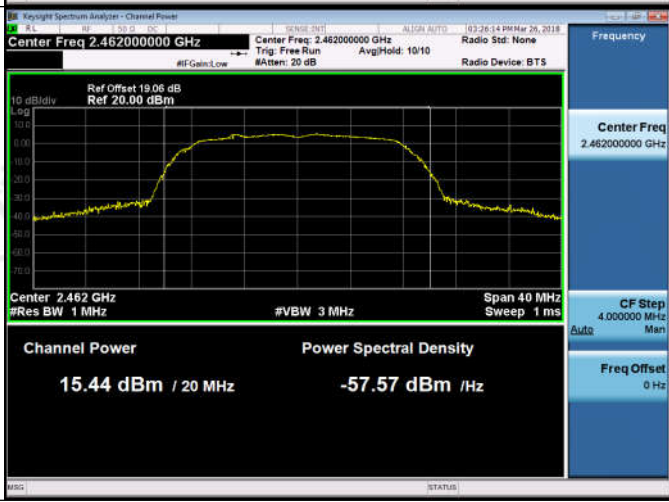
## Appendix A): Conducted Peak Output Power

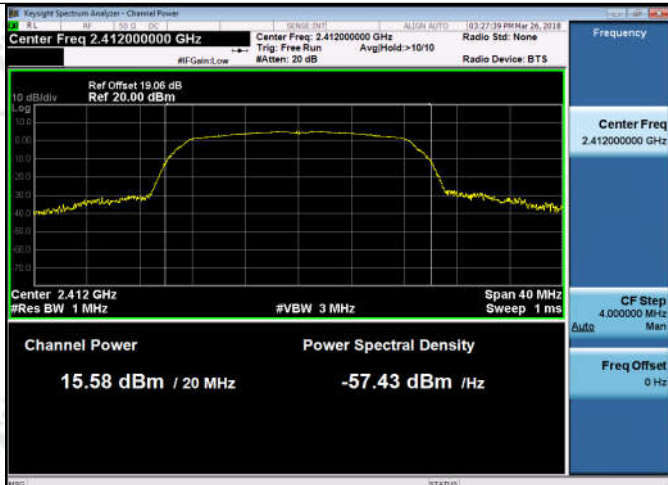
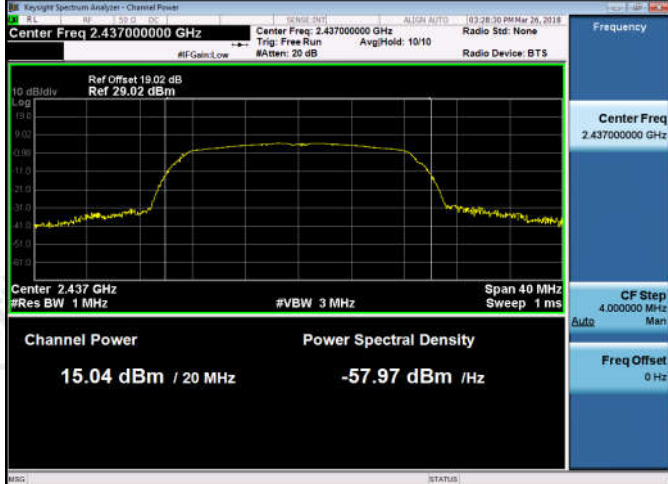
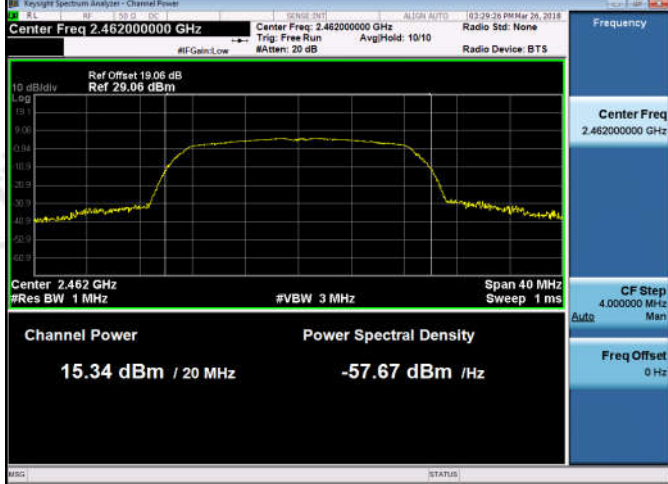
**Result Table**

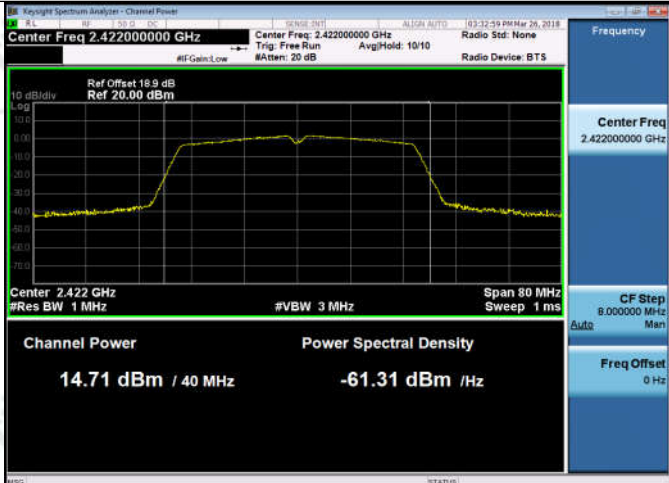
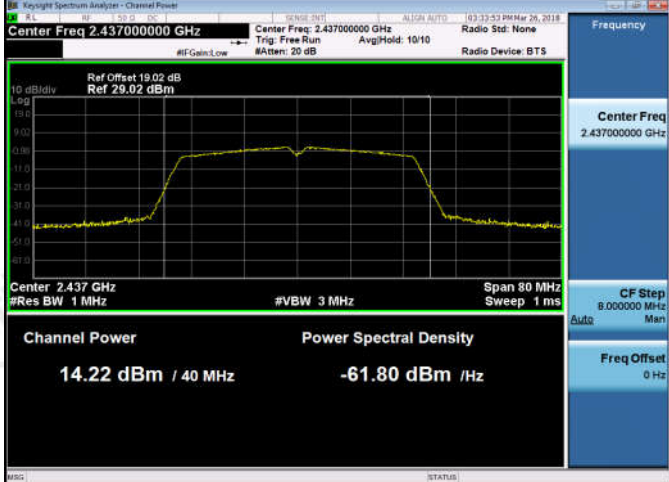
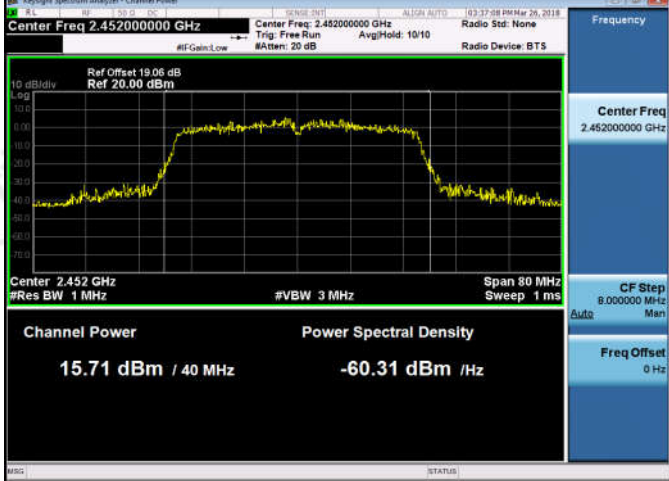
| Mode      | Channel | Conducted Peak Output Power [dBm] | Verdict |
|-----------|---------|-----------------------------------|---------|
| 11B       | LCH     | 18.33                             | PASS    |
| 11B       | MCH     | 17.82                             | PASS    |
| 11B       | HCH     | 17.90                             | PASS    |
| 11G       | LCH     | 15.77                             | PASS    |
| 11G       | MCH     | 15.24                             | PASS    |
| 11G       | HCH     | 15.44                             | PASS    |
| 11N20SISO | LCH     | 15.58                             | PASS    |
| 11N20SISO | MCH     | 15.04                             | PASS    |
| 11N20SISO | HCH     | 15.34                             | PASS    |
| 11N40SISO | LCH     | 14.71                             | PASS    |
| 11N40SISO | MCH     | 14.22                             | PASS    |
| 11N40SISO | HCH     | 15.71                             | PASS    |

## Test Graph

| Graphs  |                                                                                                                                                                                                                              |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11B/LCH | <p>Keygraph Spectrum Analyzer - Channel Power</p> <p>Center Freq: 2.412000000 GHz</p> <p>Ref Offset: 19.06 dB<br/>Ref: 30.00 dBm</p> <p>Channel Power: 18.33 dBm / 20 MHz</p> <p>Power Spectral Density: -54.68 dBm / Hz</p> |
| 11B/MCH | <p>Keygraph Spectrum Analyzer - Channel Power</p> <p>Center Freq: 2.437000000 GHz</p> <p>Ref Offset: 19.02 dB<br/>Ref: 30.00 dBm</p> <p>Channel Power: 17.82 dBm / 20 MHz</p> <p>Power Spectral Density: -55.19 dBm / Hz</p> |
| 11B/HCH | <p>Keygraph Spectrum Analyzer - Channel Power</p> <p>Center Freq: 2.462000000 GHz</p> <p>Ref Offset: 19.06 dB<br/>Ref: 29.06 dBm</p> <p>Channel Power: 17.90 dBm / 20 MHz</p> <p>Power Spectral Density: -55.11 dBm / Hz</p> |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11G/LCH |  <p>Keynote Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.412000000 GHz</p> <p>Ref Offset 19.06 dB<br/>Ref 20.00 dBm</p> <p>Center Freq 2.412000000 GHz<br/>Trig: Free Run<br/>Avg/Hold: 10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div<br/>Log</p> <p>Center 2.412 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 40 MHz<br/>Sweep 1 ms</p> <p>Channel Power<br/>15.77 dBm / 20 MHz</p> <p>Power Spectral Density<br/>-57.24 dBm / Hz</p> <p>Frequency<br/>Center Freq<br/>2.412000000 GHz</p> <p>CF Step<br/>4.000000 MHz<br/>Auto Man</p> <p>Freq Offset<br/>0 Hz</p>   |
| 11G/MCH |  <p>Keynote Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.02 dB<br/>Ref 29.02 dBm</p> <p>Center Freq 2.437000000 GHz<br/>Trig: Free Run<br/>Avg/Hold: 10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div<br/>Log</p> <p>Center 2.437 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 40 MHz<br/>Sweep 1 ms</p> <p>Channel Power<br/>15.24 dBm / 20 MHz</p> <p>Power Spectral Density<br/>-57.77 dBm / Hz</p> <p>Frequency<br/>Center Freq<br/>2.437000000 GHz</p> <p>CF Step<br/>4.000000 MHz<br/>Auto Man</p> <p>Freq Offset<br/>0 Hz</p>  |
| 11G/HCH |  <p>Keynote Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset 19.06 dB<br/>Ref 20.00 dBm</p> <p>Center Freq 2.462000000 GHz<br/>Trig: Free Run<br/>Avg/Hold: 10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>10 dB/div<br/>Log</p> <p>Center 2.462 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 40 MHz<br/>Sweep 1 ms</p> <p>Channel Power<br/>15.44 dBm / 20 MHz</p> <p>Power Spectral Density<br/>-57.57 dBm / Hz</p> <p>Frequency<br/>Center Freq<br/>2.462000000 GHz</p> <p>CF Step<br/>4.000000 MHz<br/>Auto Man</p> <p>Freq Offset<br/>0 Hz</p> |

|               |                                                                                      |
|---------------|--------------------------------------------------------------------------------------|
| 11N20SISO/LCH |    |
| 11N20SISO/MCH |   |
| 11N20SISO/HCH |  |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11N40SISO/LCH |  <p>Keyight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.422000000 GHz</p> <p>Ref Offset 19.9 dB<br/>Ref 20.00 dBm</p> <p>Center 2.422 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 80 MHz<br/>Sweep 1 ms</p> <p>Channel Power 14.71 dBm / 40 MHz<br/>Power Spectral Density -61.31 dBm / Hz</p> <p>Frequency<br/>Center Freq 2.422000000 GHz<br/>CF Step 8.000000 MHz<br/>Freq Offset 0 Hz</p>    |
| 11N40SISO/MCH |  <p>Keyight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.02 dB<br/>Ref 29.02 dBm</p> <p>Center 2.437 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 80 MHz<br/>Sweep 1 ms</p> <p>Channel Power 14.22 dBm / 40 MHz<br/>Power Spectral Density -61.80 dBm / Hz</p> <p>Frequency<br/>Center Freq 2.437000000 GHz<br/>CF Step 8.000000 MHz<br/>Freq Offset 0 Hz</p>  |
| 11N40SISO/HCH |  <p>Keyight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.452000000 GHz</p> <p>Ref Offset 19.06 dB<br/>Ref 20.00 dBm</p> <p>Center 2.452 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 80 MHz<br/>Sweep 1 ms</p> <p>Channel Power 15.71 dBm / 40 MHz<br/>Power Spectral Density -60.31 dBm / Hz</p> <p>Frequency<br/>Center Freq 2.452000000 GHz<br/>CF Step 8.000000 MHz<br/>Freq Offset 0 Hz</p> |

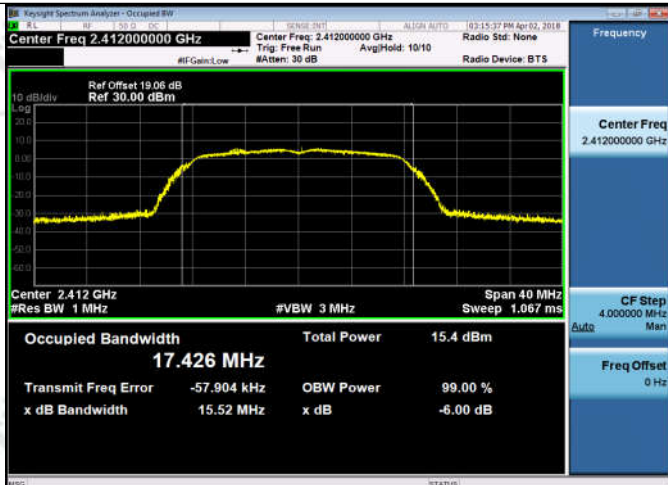
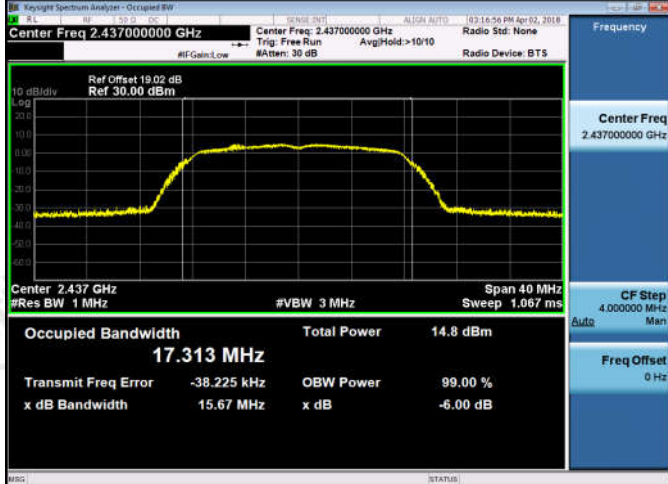
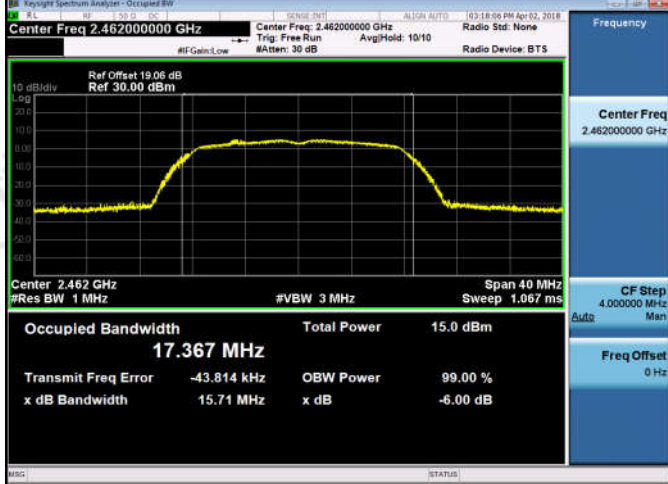
## Appendix B): 6dB Occupied Bandwidth

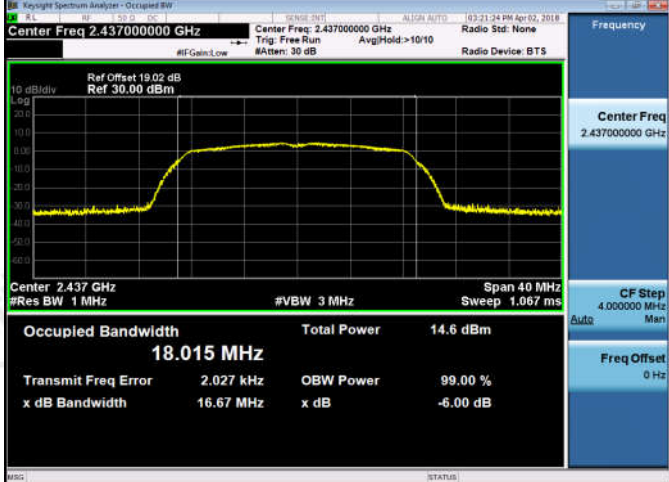
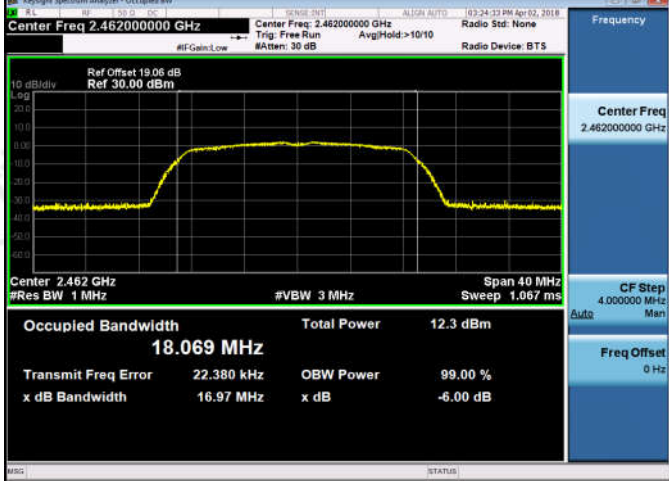
**Result Table**

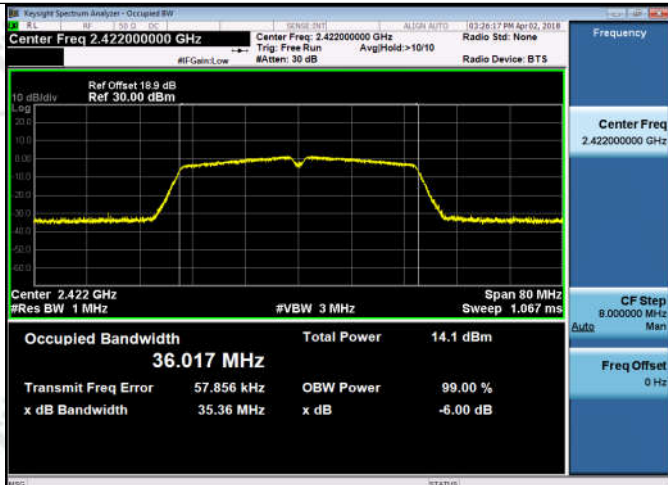
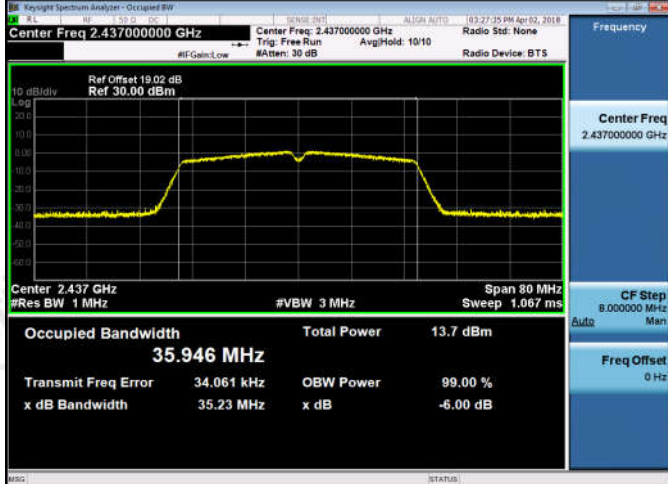
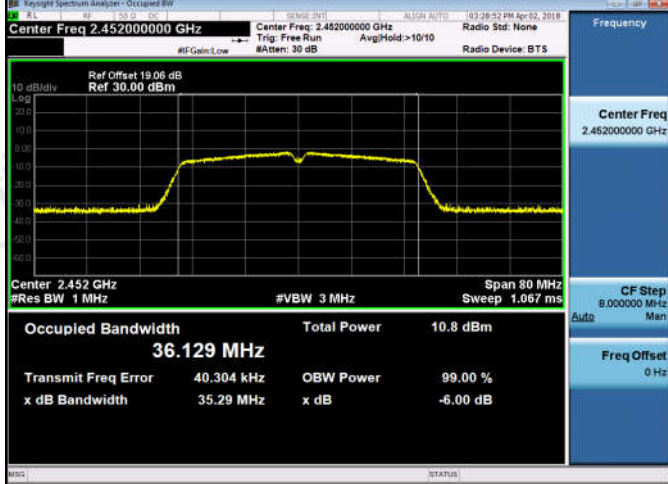
| Mode      | Channel | 6dB Bandwidth [MHz] | 99% OBW [MHz] | Verdict | Remark        |
|-----------|---------|---------------------|---------------|---------|---------------|
| 11B       | LCH     | 9.722               | 14.641        | PASS    | Peak detector |
| 11B       | MCH     | 9.681               | 14.514        | PASS    |               |
| 11B       | HCH     | 9.706               | 14.598        | PASS    |               |
| 11G       | LCH     | 15.52               | 17.426        | PASS    |               |
| 11G       | MCH     | 15.67               | 17.313        | PASS    |               |
| 11G       | HCH     | 15.71               | 17.367        | PASS    |               |
| 11N20SISO | LCH     | 16.98               | 18.079        | PASS    |               |
| 11N20SISO | MCH     | 16.67               | 18.015        | PASS    |               |
| 11N20SISO | HCH     | 16.97               | 18.069        | PASS    |               |
| 11N40SISO | LCH     | 35.36               | 36.017        | PASS    |               |
| 11N40SISO | MCH     | 35.23               | 35.946        | PASS    |               |
| 11N40SISO | HCH     | 35.29               | 36.129        | PASS    |               |

## Test Graph

| Graphs  |  |
|---------|--|
| 11B/LCH |  |
| 11B/MCH |  |
| 11B/HCH |  |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11G/LCH |  <p>Center Freq 2.412000000 GHz</p> <p>Ref Offset 19.06 dB<br/>Ref 30.00 dBm</p> <p>Center Freq 2.412000000 GHz<br/>Trig: Free Run<br/>Avg/Hold: 10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Center 2.412 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 40 MHz<br/>Sweep 1.067 ms</p> <p>Occupied Bandwidth 17.426 MHz<br/>Total Power 15.4 dBm</p> <p>Transmit Freq Error -57.904 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 15.52 MHz<br/>x dB -6.00 dB</p>   |
| 11G/MCH |  <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.02 dB<br/>Ref 30.00 dBm</p> <p>Center Freq 2.437000000 GHz<br/>Trig: Free Run<br/>Avg/Hold: 10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Center 2.437 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 40 MHz<br/>Sweep 1.067 ms</p> <p>Occupied Bandwidth 17.313 MHz<br/>Total Power 14.8 dBm</p> <p>Transmit Freq Error -38.225 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 15.67 MHz<br/>x dB -6.00 dB</p>  |
| 11G/HCH |  <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset 19.06 dB<br/>Ref 30.00 dBm</p> <p>Center Freq 2.462000000 GHz<br/>Trig: Free Run<br/>Avg/Hold: 10/10<br/>Radio Std: None<br/>Radio Device: BTS</p> <p>Center 2.462 GHz<br/>#Res BW 1 MHz<br/>#VBW 3 MHz<br/>Span 40 MHz<br/>Sweep 1.067 ms</p> <p>Occupied Bandwidth 17.367 MHz<br/>Total Power 15.0 dBm</p> <p>Transmit Freq Error -43.814 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 15.71 MHz<br/>x dB -6.00 dB</p> |

|               |                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11N20SISO/LCH |  <p>Center Freq 2.412000000 GHz</p> <p>Ref Offset 19.06 dB<br/>Ref 30.00 dBm</p> <p>Center 2.412 GHz<br/>#Res BW 1 MHz</p> <p>Occupied Bandwidth <b>18.079 MHz</b></p> <p>Total Power 15.3 dBm</p> <p>Transmit Freq Error -8.361 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 16.98 MHz</p> <p>x dB -6.00 dB</p>   |
| 11N20SISO/MCH |  <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.02 dB<br/>Ref 30.00 dBm</p> <p>Center 2.437 GHz<br/>#Res BW 1 MHz</p> <p>Occupied Bandwidth <b>18.015 MHz</b></p> <p>Total Power 14.6 dBm</p> <p>Transmit Freq Error 2.027 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 16.67 MHz</p> <p>x dB -6.00 dB</p>   |
| 11N20SISO/HCH |  <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset 19.06 dB<br/>Ref 30.00 dBm</p> <p>Center 2.462 GHz<br/>#Res BW 1 MHz</p> <p>Occupied Bandwidth <b>18.069 MHz</b></p> <p>Total Power 12.3 dBm</p> <p>Transmit Freq Error 22.380 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 16.97 MHz</p> <p>x dB -6.00 dB</p> |

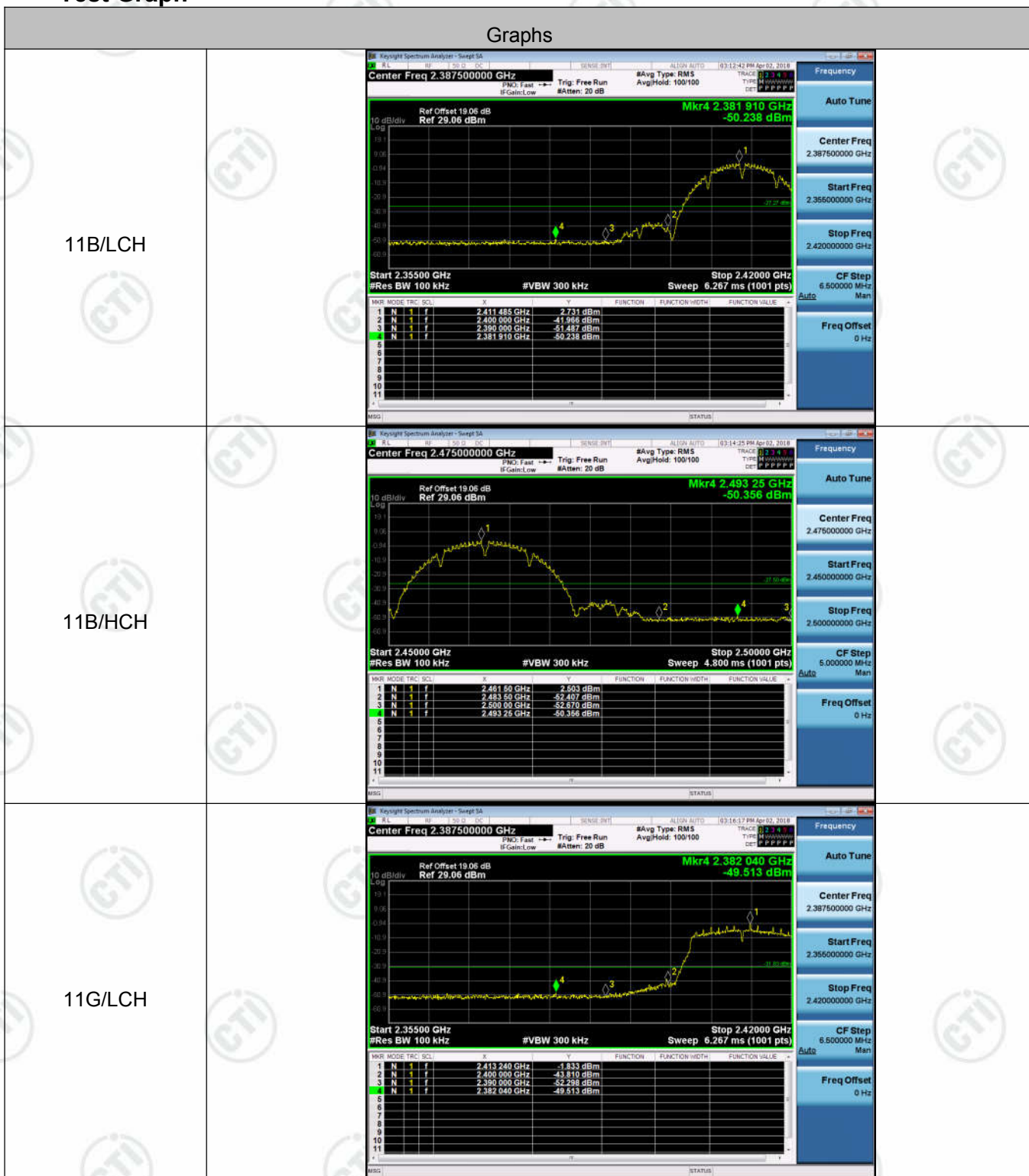
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11N40SISO/LCH |  <p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.422000000 GHz</p> <p>Ref Offset 19.9 dB</p> <p>Ref 30.00 dBm</p> <p>Center 2.422 GHz</p> <p>#Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz</p> <p>Sweep 1.067 ms</p> <p>Occupied Bandwidth 36.017 MHz</p> <p>Total Power 14.1 dBm</p> <p>Transmit Freq Error 57.856 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 35.36 MHz</p> <p>x dB -6.00 dB</p>    |
| 11N40SISO/MCH |  <p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.02 dB</p> <p>Ref 30.00 dBm</p> <p>Center 2.437 GHz</p> <p>#Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz</p> <p>Sweep 1.067 ms</p> <p>Occupied Bandwidth 35.946 MHz</p> <p>Total Power 13.7 dBm</p> <p>Transmit Freq Error 34.061 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 35.23 MHz</p> <p>x dB -6.00 dB</p>  |
| 11N40SISO/HCH |  <p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.452000000 GHz</p> <p>Ref Offset 19.06 dB</p> <p>Ref 30.00 dBm</p> <p>Center 2.452 GHz</p> <p>#Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz</p> <p>Sweep 1.067 ms</p> <p>Occupied Bandwidth 36.129 MHz</p> <p>Total Power 10.8 dBm</p> <p>Transmit Freq Error 40.304 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 35.29 MHz</p> <p>x dB -6.00 dB</p> |

## Appendix C): Band-edge for RF Conducted Emissions

**Result Table**

| Mode      | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-----------|---------|--------------------|--------------------------|-------------|---------|
| 11B       | LCH     | 2.731              | -50.238                  | -27.27      | PASS    |
| 11B       | HCH     | 2.503              | -50.356                  | -27.5       | PASS    |
| 11G       | LCH     | -1.833             | -49.513                  | -31.83      | PASS    |
| 11G       | HCH     | -2.500             | -48.725                  | -32.50      | PASS    |
| 11N20SISO | LCH     | -1.853             | -49.857                  | -31.85      | PASS    |
| 11N20SISO | HCH     | -4.826             | -49.636                  | -34.83      | PASS    |
| 11N40SISO | LCH     | -5.876             | -47.671                  | -35.88      | PASS    |
| 11N40SISO | HCH     | -9.263             | -50.399                  | -39.26      | PASS    |

## Test Graph





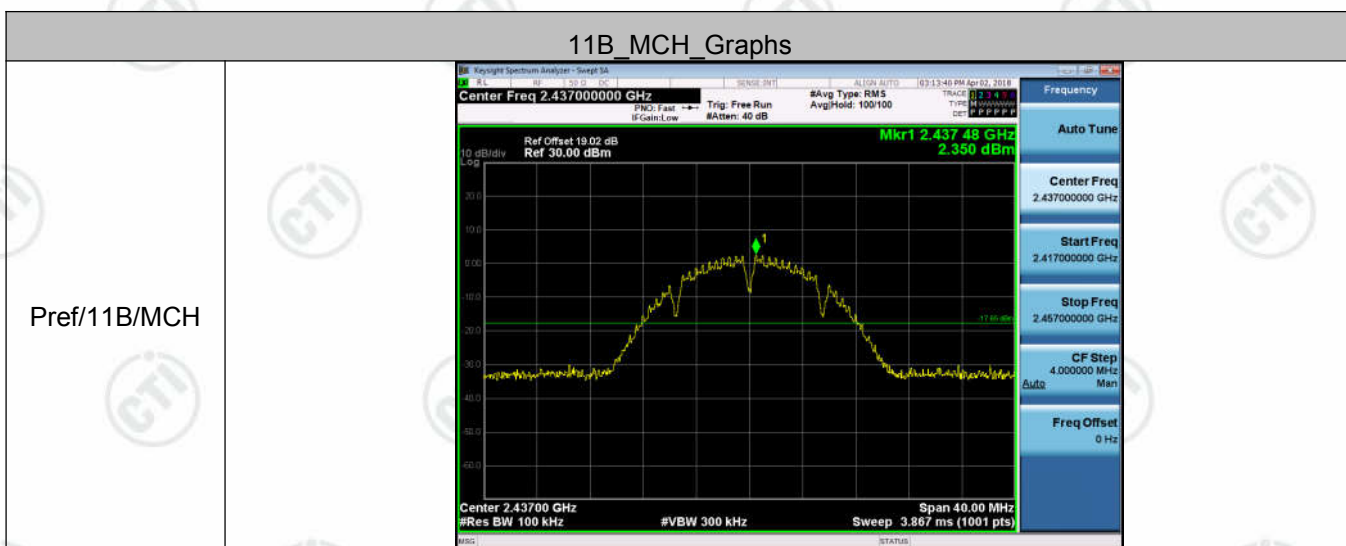


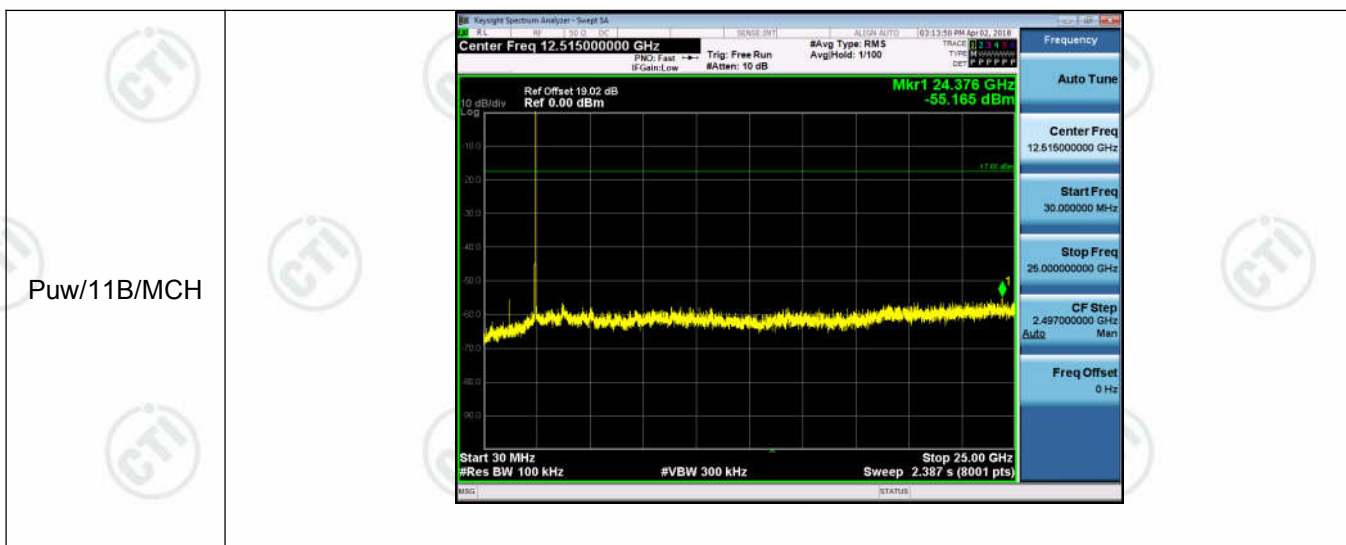
## Appendix D): RF Conducted Spurious Emissions

**Result Table**

| Mode      | Channel | Pref [dBm] | Puw[dBm] | Verdict |
|-----------|---------|------------|----------|---------|
| 11B       | LCH     | 2.770      | <Limit   | PASS    |
| 11B       | MCH     | 2.350      | <Limit   | PASS    |
| 11B       | HCH     | 2.527      | <Limit   | PASS    |
| 11G       | LCH     | -1.808     | <Limit   | PASS    |
| 11G       | MCH     | -2.981     | <Limit   | PASS    |
| 11G       | HCH     | -2.605     | <Limit   | PASS    |
| 11N20SISO | LCH     | -1.898     | <Limit   | PASS    |
| 11N20SISO | MCH     | -3.021     | <Limit   | PASS    |
| 11N20SISO | HCH     | -4.976     | <Limit   | PASS    |
| 11N40SISO | LCH     | -5.871     | <Limit   | PASS    |
| 11N40SISO | MCH     | -6.141     | <Limit   | PASS    |
| 11N40SISO | HCH     | -9.14      | <Limit   | PASS    |

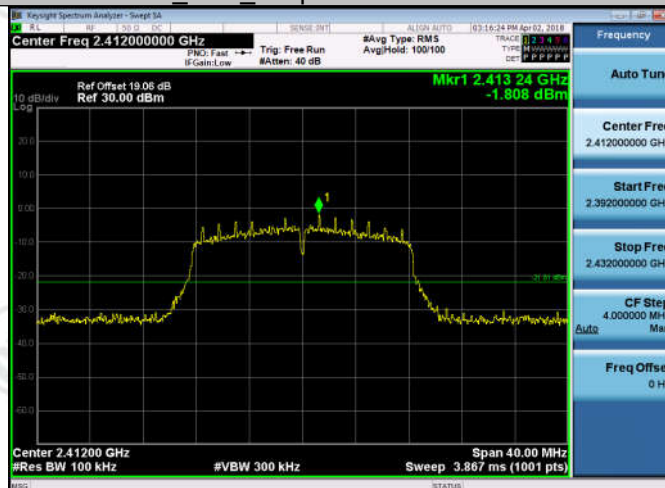
## Test Graph



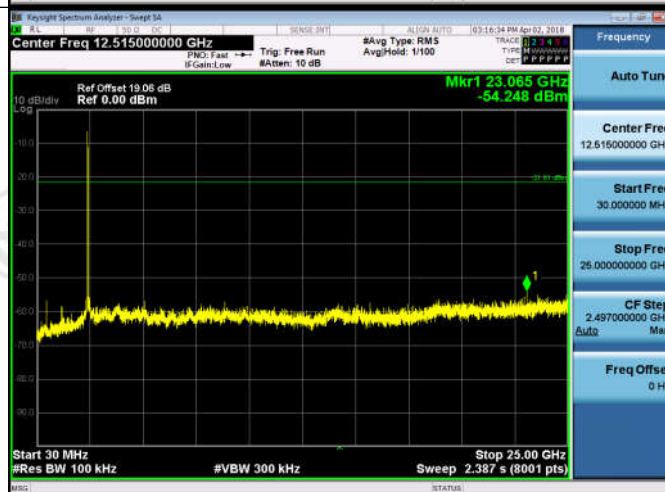


### 11G\_LCH\_Graphs

Pref/11G/LCH

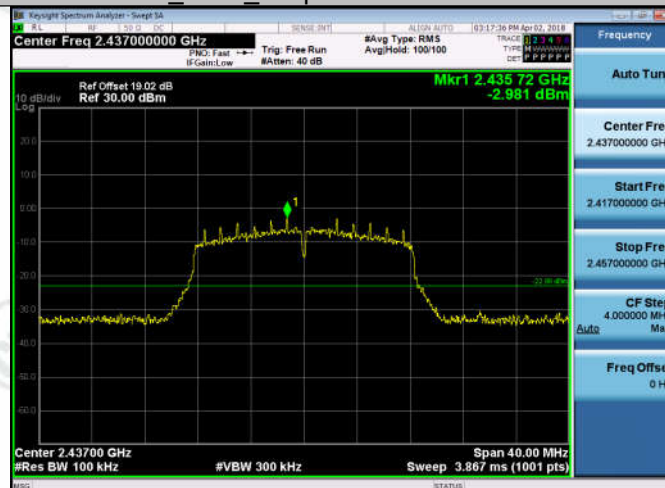


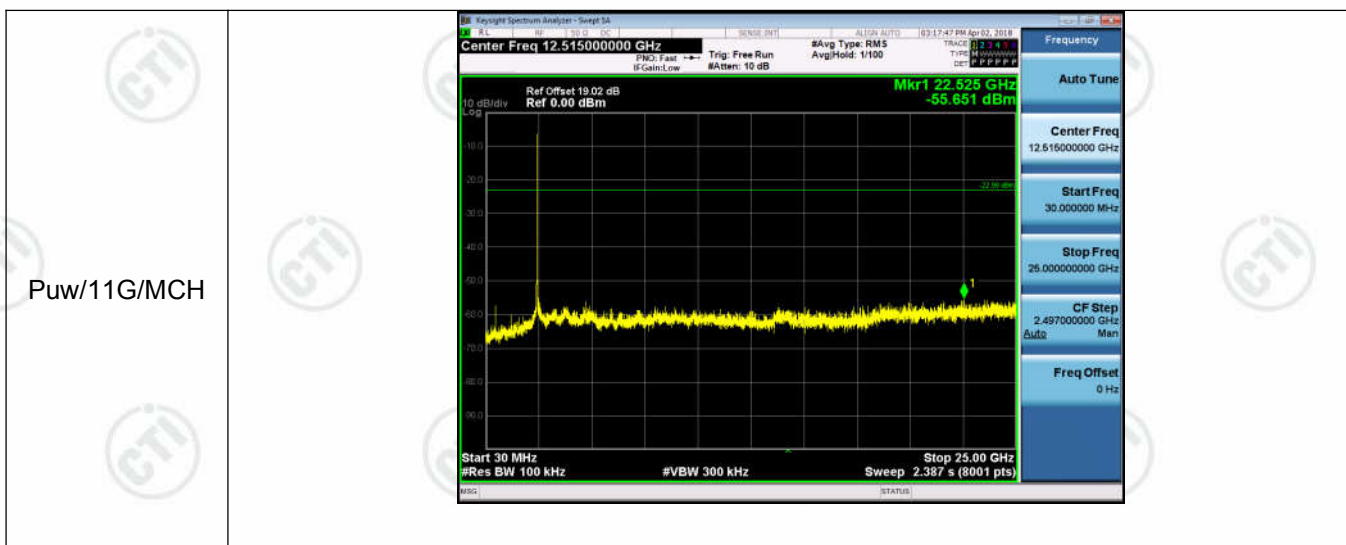
Puw/11G/LCH



### 11G\_MCH\_Graphs

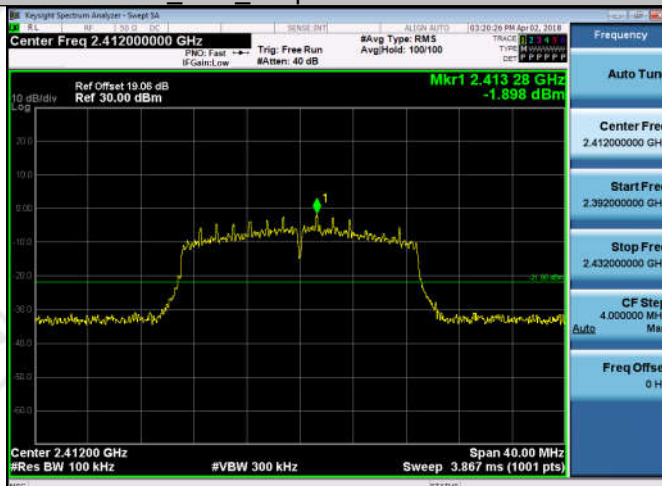
Pref/11G/MCH



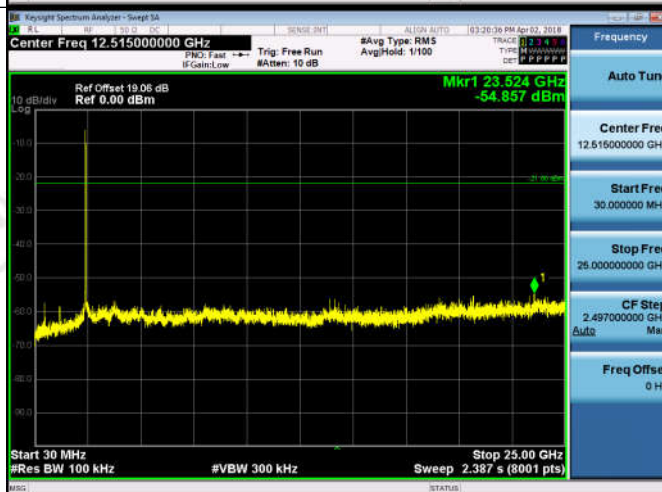


### 11N20SISO\_LCH\_Graphs

Pref/11N20SISO/LCH

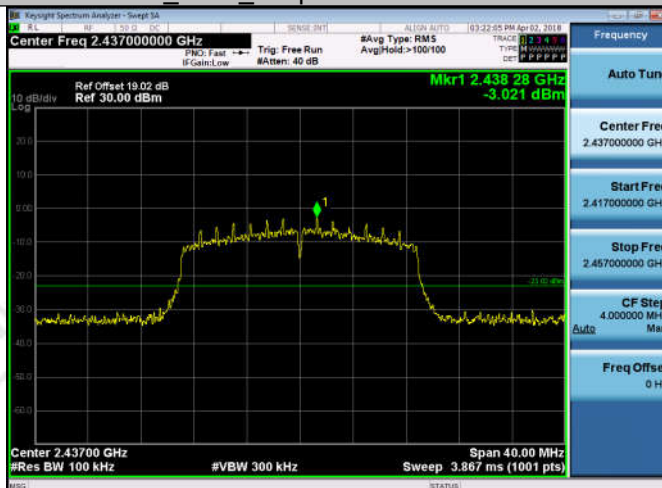


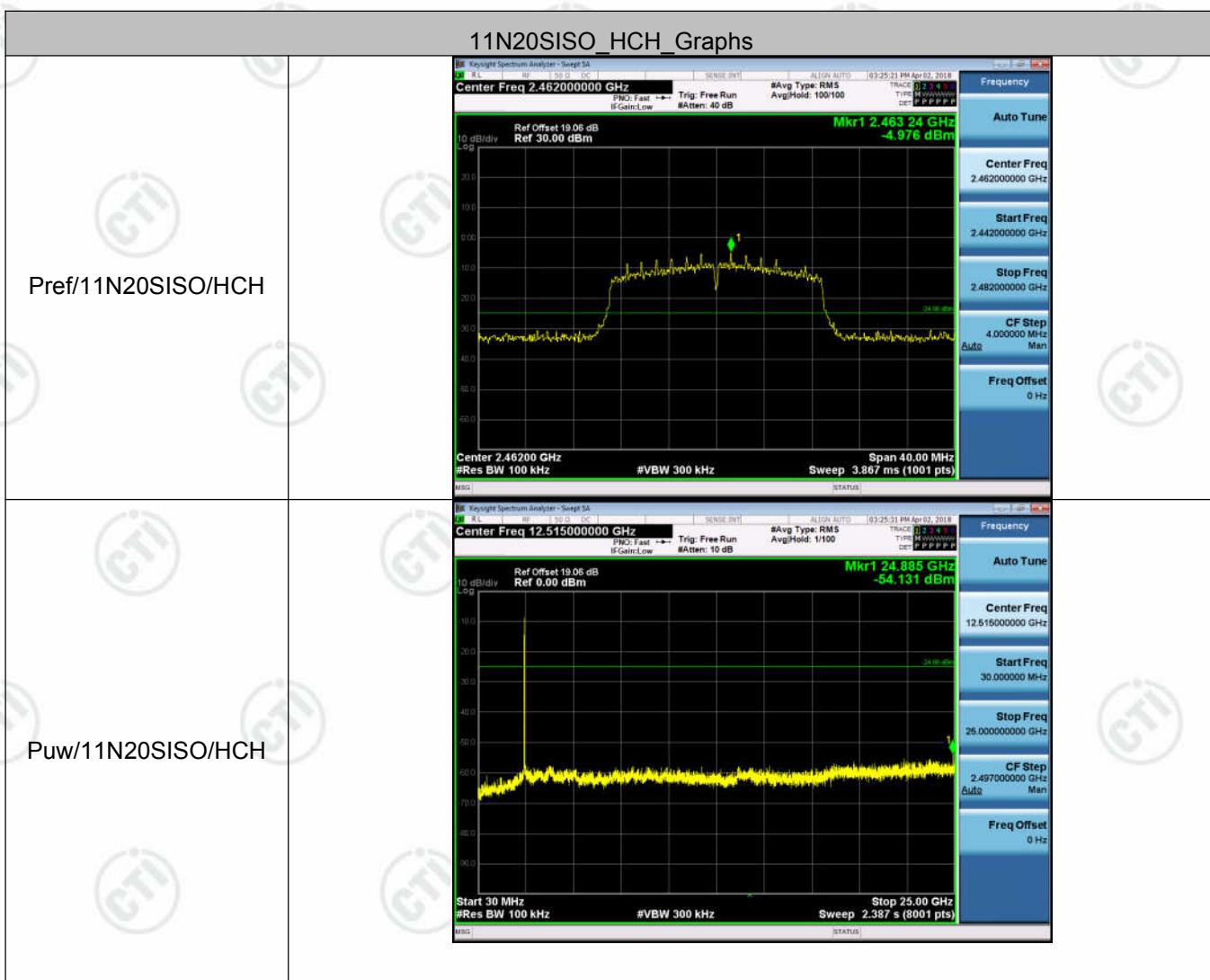
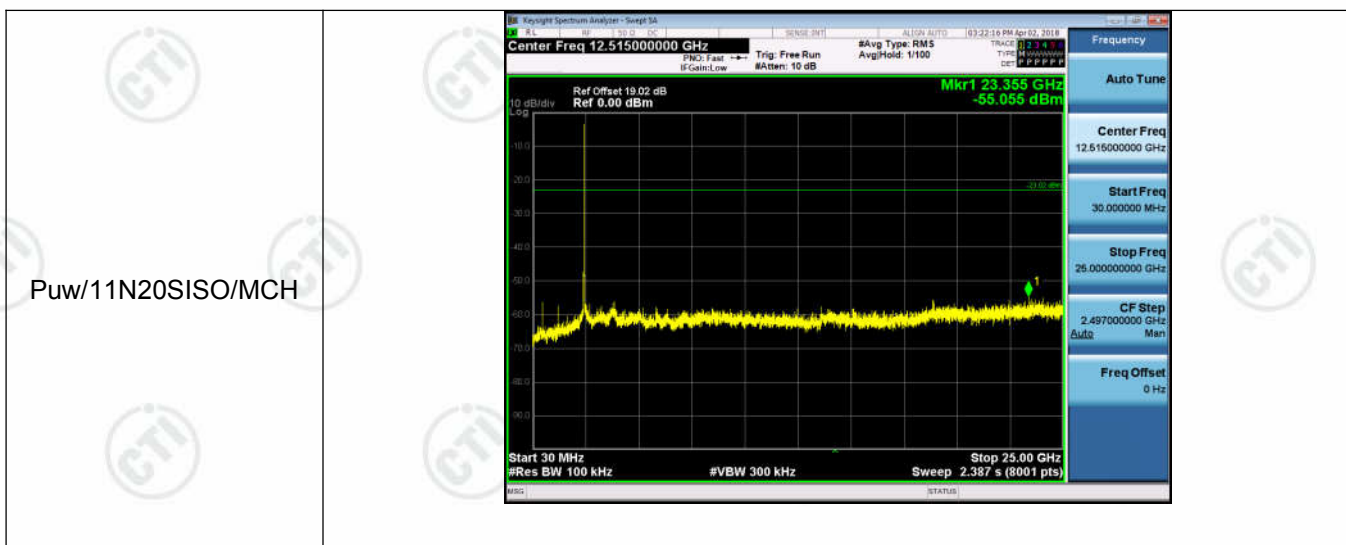
/11N20SISO/LCH



### 11N20SISO\_MCH\_Graphs

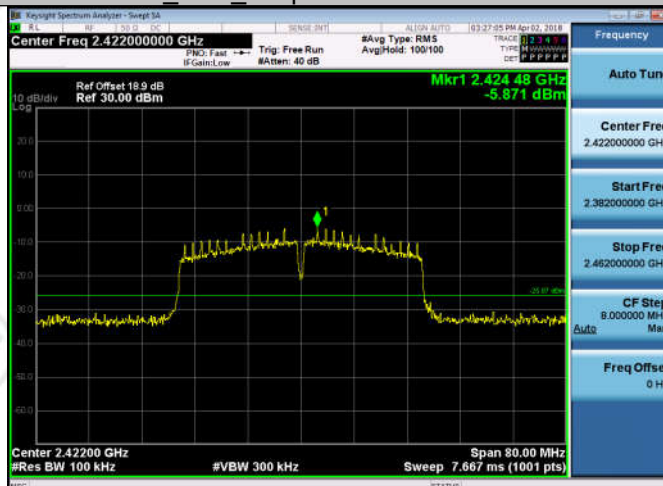
Pref/11N20SISO/MCH



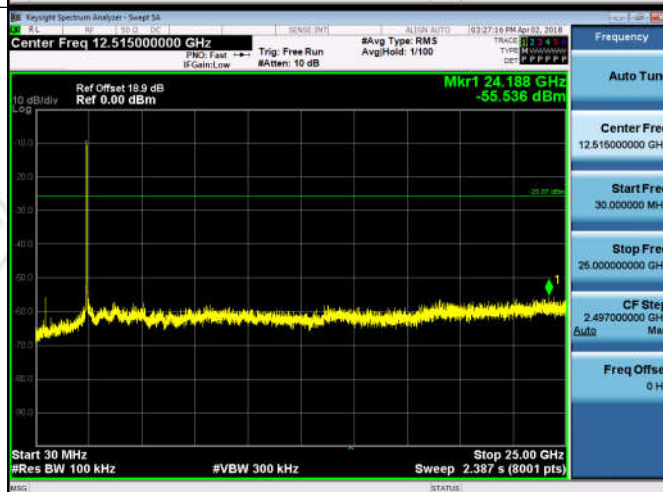


### 11N40SISO\_LCH\_Graphs

Pref/11N40SISO/LCH

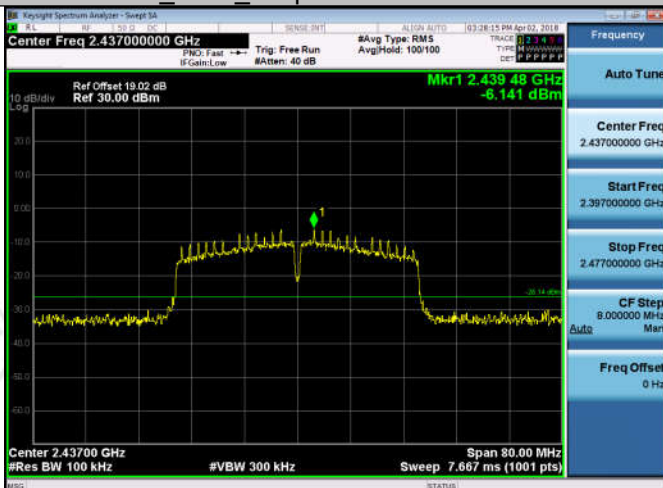


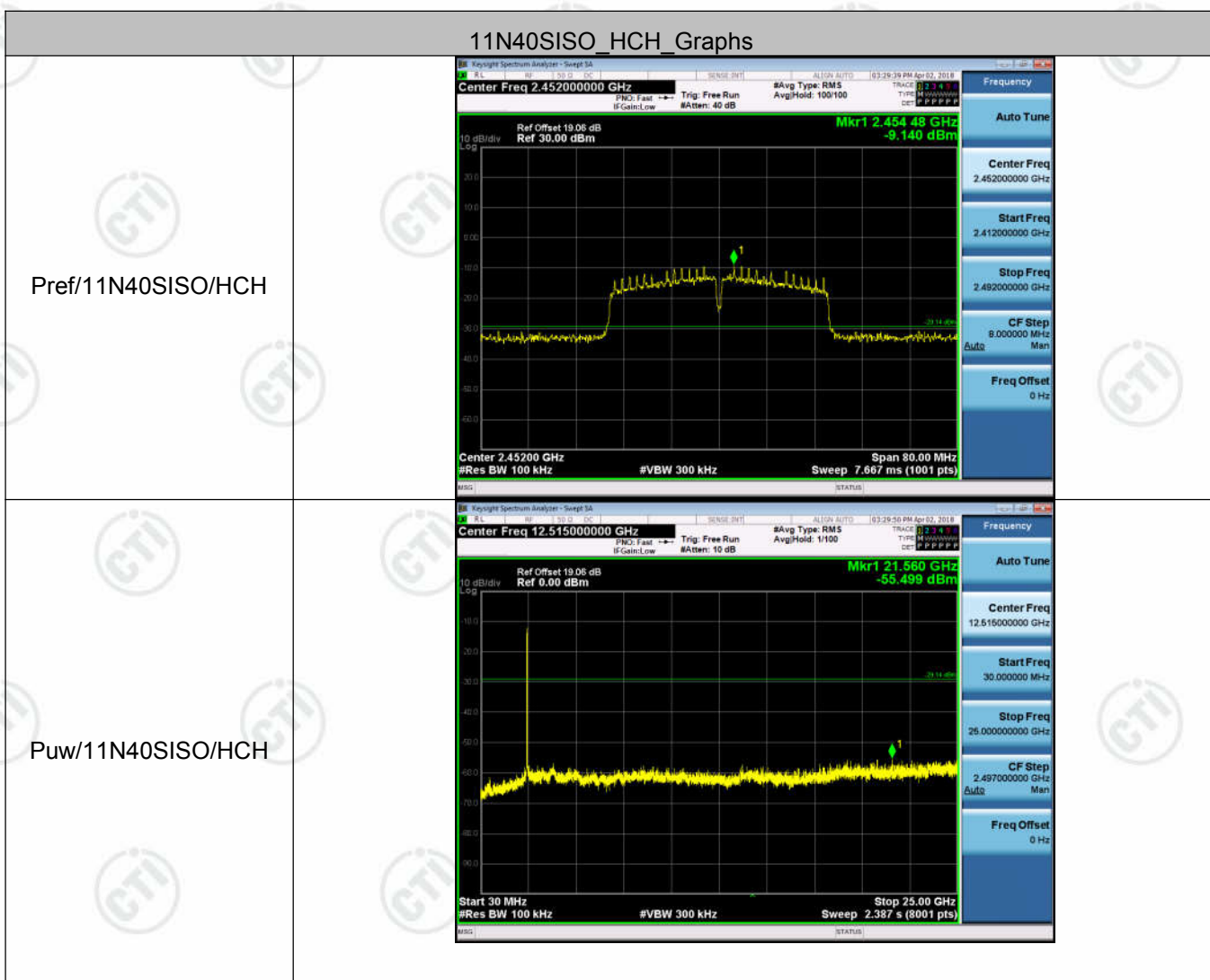
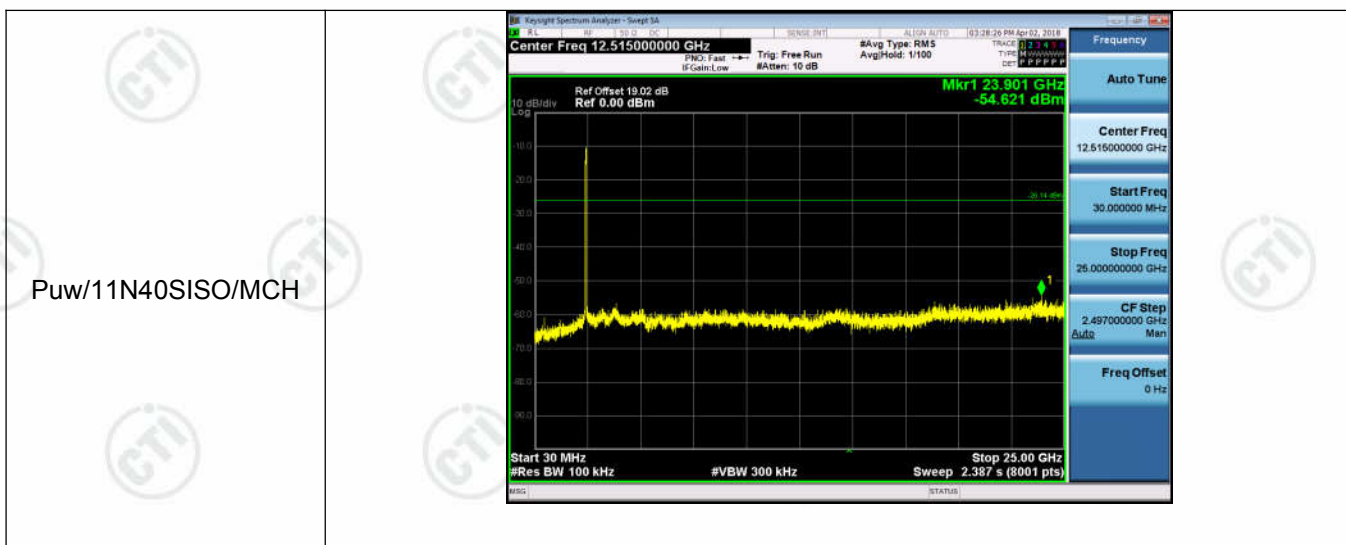
Puw/11N40SISO/LCH



### 11N40SISO\_MCH\_Graphs

Pref/11N40SISO/MCH





## Appendix E): Power Spectral Density

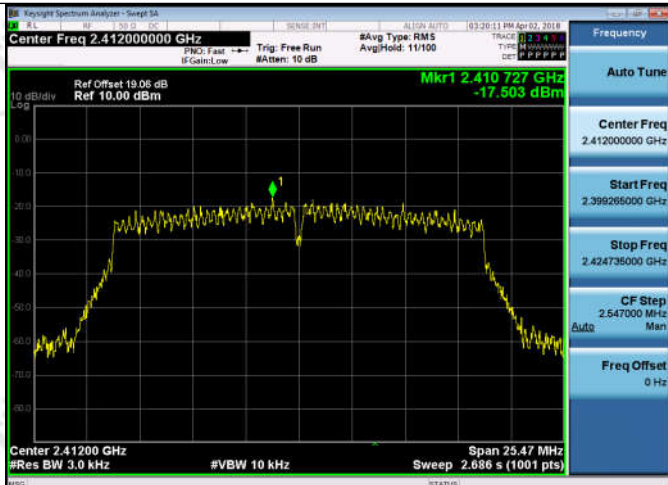
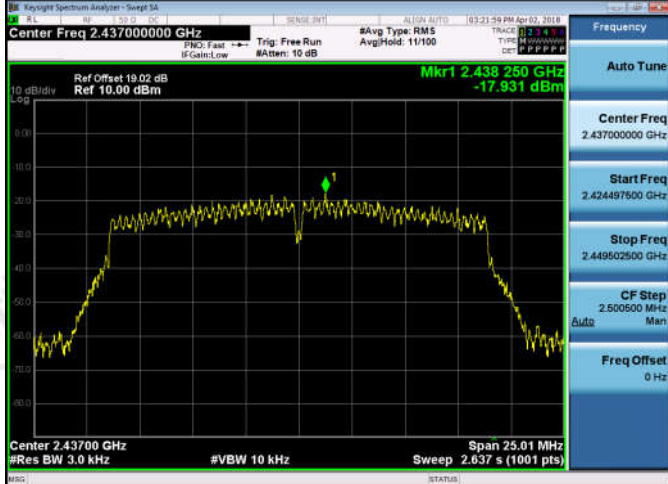
**Result Table**

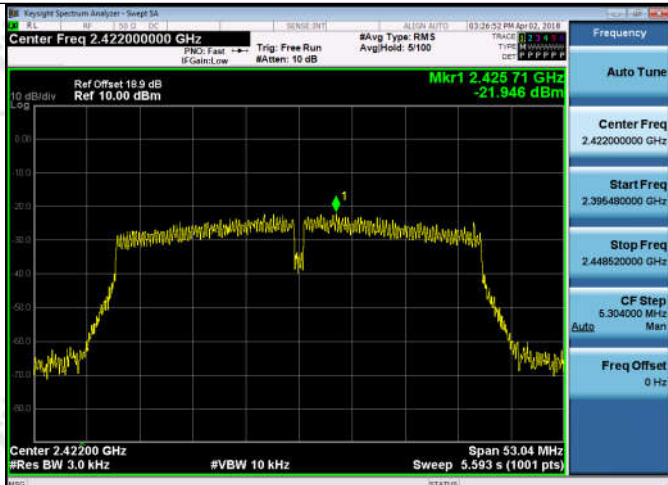
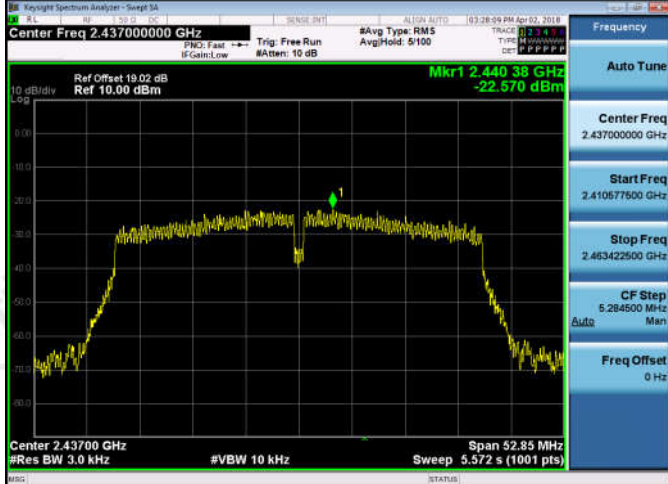
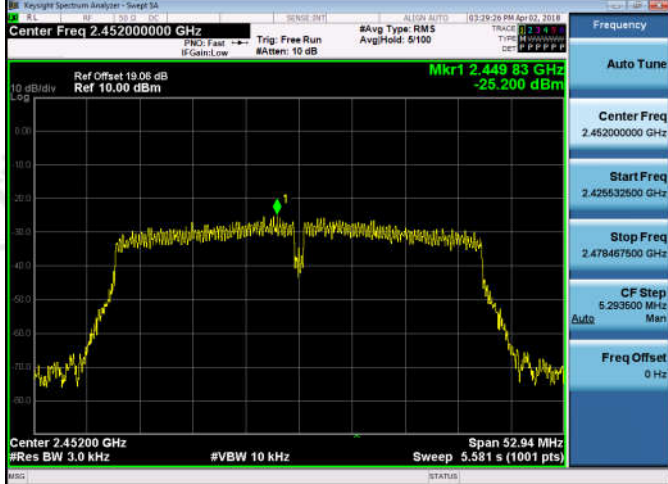
| Mode      | Channel | Power Spectral Density [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|-----------|---------|-----------------------------------|------------------|---------|
| 11B       | LCH     | -13.034                           | 8                | PASS    |
| 11B       | MCH     | -14.040                           | 8                | PASS    |
| 11B       | HCH     | -13.080                           | 8                | PASS    |
| 11G       | LCH     | -18.543                           | 8                | PASS    |
| 11G       | MCH     | -18.435                           | 8                | PASS    |
| 11G       | HCH     | -17.786                           | 8                | PASS    |
| 11N20SISO | LCH     | -17.503                           | 8                | PASS    |
| 11N20SISO | MCH     | -17.931                           | 8                | PASS    |
| 11N20SISO | HCH     | -19.764                           | 8                | PASS    |
| 11N40SISO | LCH     | -21.946                           | 8                | PASS    |
| 11N40SISO | MCH     | -22.570                           | 8                | PASS    |
| 11N40SISO | HCH     | -25.200                           | 8                | PASS    |

## Test Graph





|               |                                                                                      |
|---------------|--------------------------------------------------------------------------------------|
| 11N20SISO/LCH |    |
| 11N20SISO/MCH |   |
| 11N20SISO/HCH |  |

|               |                                                                                      |
|---------------|--------------------------------------------------------------------------------------|
| 11N40SISO/LCH |    |
| 11N40SISO/MCH |   |
| 11N40SISO/HCH |  |

## Appendix F): Antenna Requirement

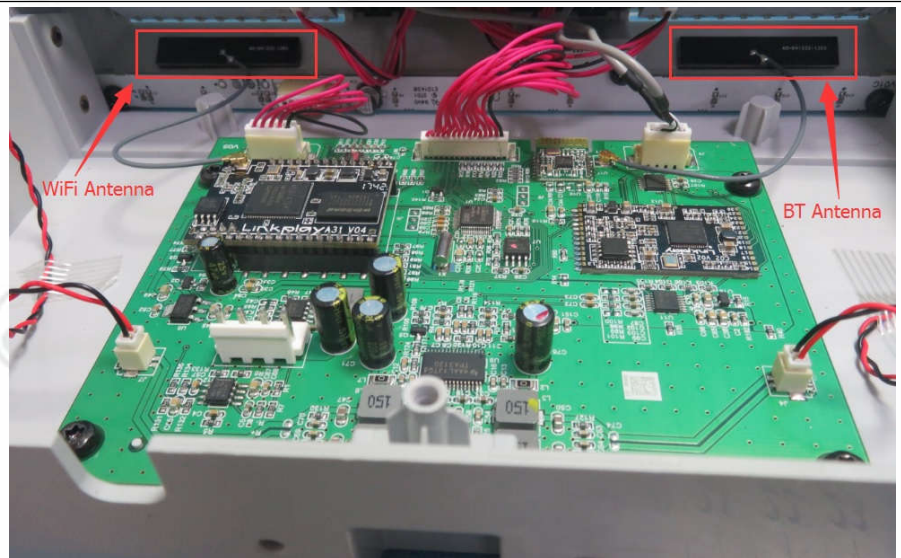
### 15.203 requirement:

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

### 15.247(b) (4) requirement:

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

### EUT Antenna:



The antenna is attached to the inner shell of the EUT and no consideration of replacement. The best case gain of the antenna is 2.5dBi.

## Appendix G): AC Power Line Conducted Emission

| Test Procedure:       | <p>Test frequency range :150KHz-30MHz</p> <ol style="list-style-type: none"> <li>1)The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a <math>50\Omega/50\mu\text{H} + 5\Omega</math> linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.</li> </ol> |           |                       |                    |  |            |         |          |           |           |       |    |    |      |    |    |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|--------------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Limit:                | <table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dB<math>\mu</math>V)</th></tr> <tr> <th>Quasi-peak</th><th>Average</th></tr> </thead> <tbody> <tr> <td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr> <tr> <td>0.5-5</td><td>56</td><td>46</td></tr> <tr> <td>5-30</td><td>60</td><td>50</td></tr> </tbody> </table> <p>* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.<br/>NOTE : The lower limit is applicable at the transition frequency</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | Frequency range (MHz) | Limit (dB $\mu$ V) |  | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dB $\mu$ V)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                       |                    |  |            |         |          |           |           |       |    |    |      |    |    |
|                       | Quasi-peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Average   |                       |                    |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.15-0.5              | 66 to 56*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 56 to 46* |                       |                    |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.5-5                 | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 46        |                       |                    |  |            |         |          |           |           |       |    |    |      |    |    |
| 5-30                  | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 50        |                       |                    |  |            |         |          |           |           |       |    |    |      |    |    |

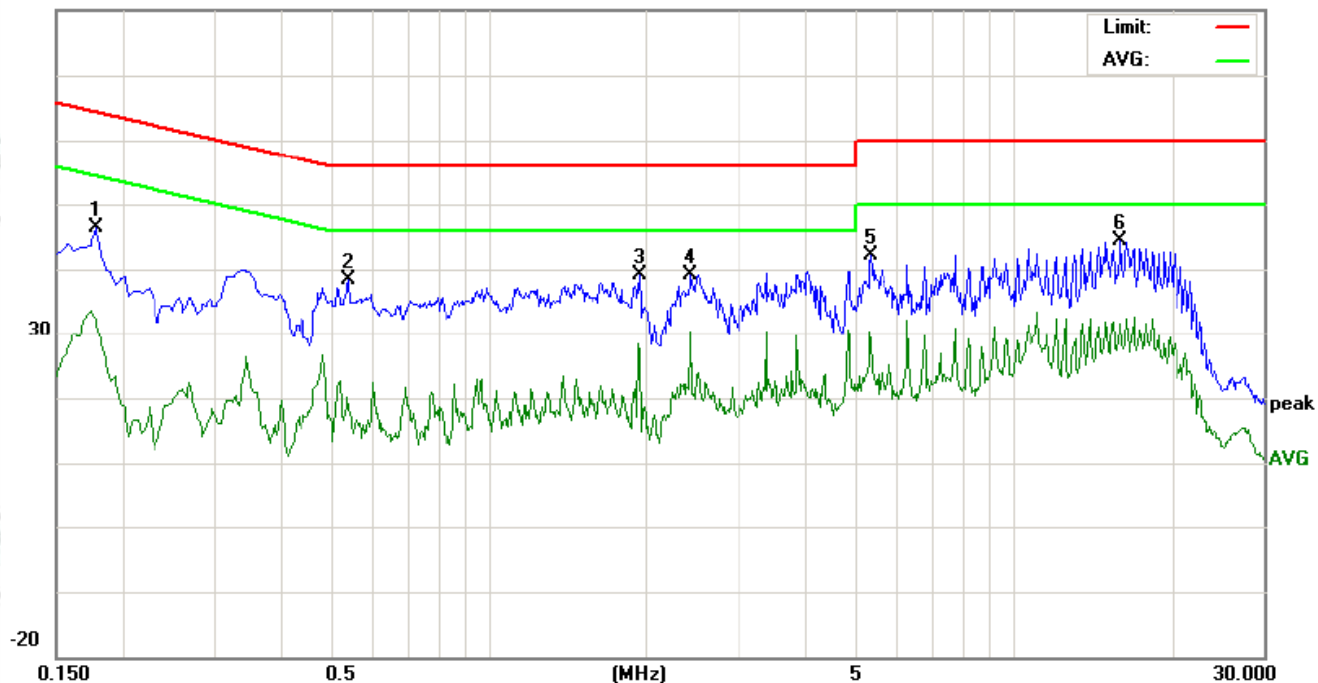
### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:

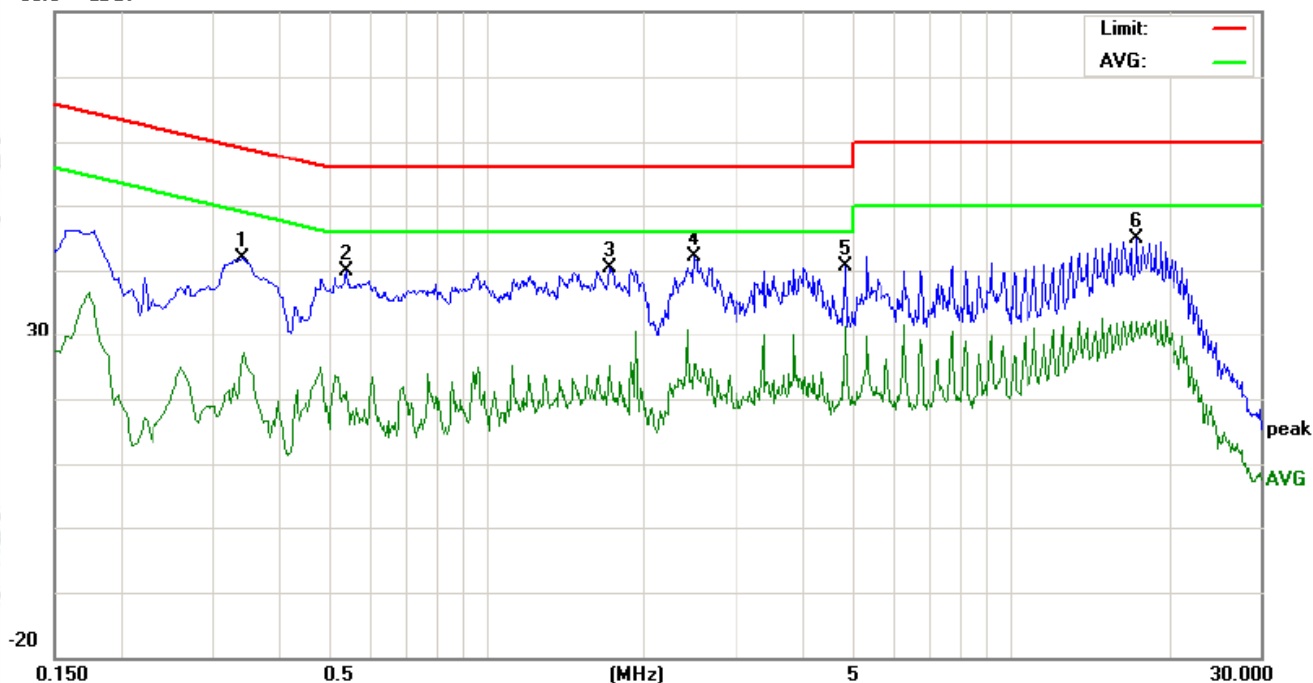
80.0 dBuV



| No. | Freq.<br>MHz | Reading_Level<br>(dBuV) |       |       | Correct<br>Factor<br>dB | Measurement<br>(dBuV) |       |       | Limit<br>(dBuV) |       | Margin<br>(dB) |        | P/F | Comment |
|-----|--------------|-------------------------|-------|-------|-------------------------|-----------------------|-------|-------|-----------------|-------|----------------|--------|-----|---------|
|     |              | Peak                    | QP    | AVG   |                         | peak                  | QP    | AVG   | QP              | AVG   | QP             | AVG    |     |         |
| 1   | 0.1780       | 36.63                   | 30.18 | 22.70 | 9.73                    | 46.36                 | 39.91 | 32.43 | 64.57           | 54.57 | -24.66         | -22.14 | P   |         |
| 2   | 0.5420       | 28.75                   | 23.56 | 8.94  | 9.73                    | 38.48                 | 33.29 | 18.67 | 56.00           | 46.00 | -22.71         | -27.33 | P   |         |
| 3   | 1.9410       | 29.34                   | 22.34 | 13.34 | 9.72                    | 39.06                 | 32.06 | 23.06 | 56.00           | 46.00 | -23.94         | -22.94 | P   |         |
| 4   | 2.4300       | 29.53                   | 24.39 | 20.55 | 9.71                    | 39.24                 | 34.10 | 30.26 | 56.00           | 46.00 | -21.90         | -15.74 | P   |         |
| 5   | 5.3340       | 32.52                   | 27.03 | 19.34 | 9.62                    | 42.14                 | 36.65 | 28.96 | 60.00           | 50.00 | -23.35         | -21.04 | P   |         |
| 6   | 16.0060      | 34.34                   | 28.63 | 21.59 | 10.02                   | 44.36                 | 38.65 | 31.61 | 60.00           | 50.00 | -21.35         | -18.39 | P   |         |

Neutral line:

80.0 dBuV



| No. | Freq.<br>MHz | Reading_Level<br>(dBuV) |       |       | Correct<br>Factor<br>dB | Measurement<br>(dBuV) |       |       | Limit<br>(dBuV) |       | Margin<br>(dB) |        | P/F | Comment |
|-----|--------------|-------------------------|-------|-------|-------------------------|-----------------------|-------|-------|-----------------|-------|----------------|--------|-----|---------|
|     |              | Peak                    | QP    | AVG   |                         | peak                  | QP    | AVG   | QP              | AVG   | QP             | AVG    |     |         |
| 1   | 0.3420       | 32.16                   | 26.14 | 16.54 | 9.77                    | 41.93                 | 35.91 | 26.31 | 59.15           | 49.15 | -23.24         | -22.84 | P   |         |
| 2   | 0.5420       | 30.15                   | 24.39 | 11.27 | 9.73                    | 39.88                 | 34.12 | 21.00 | 56.00           | 46.00 | -21.88         | -25.00 | P   |         |
| 3   | 1.7260       | 30.68                   | 24.62 | 13.81 | 9.72                    | 40.40                 | 34.34 | 23.53 | 56.00           | 46.00 | -21.66         | -22.47 | P   |         |
| 4   | 2.4980       | 32.40                   | 27.62 | 15.64 | 9.70                    | 42.10                 | 37.32 | 25.34 | 56.00           | 46.00 | -18.68         | -20.66 | P   |         |
| 5   | 4.8420       | 31.01                   | 25.18 | 21.85 | 9.63                    | 40.64                 | 34.81 | 31.48 | 56.00           | 46.00 | -21.19         | -14.52 | P   |         |
| 6   | 17.4260      | 34.88                   | 29.39 | 22.20 | 10.03                   | 44.91                 | 39.42 | 32.23 | 60.00           | 50.00 | -20.58         | -17.77 | P   |         |

Notes:

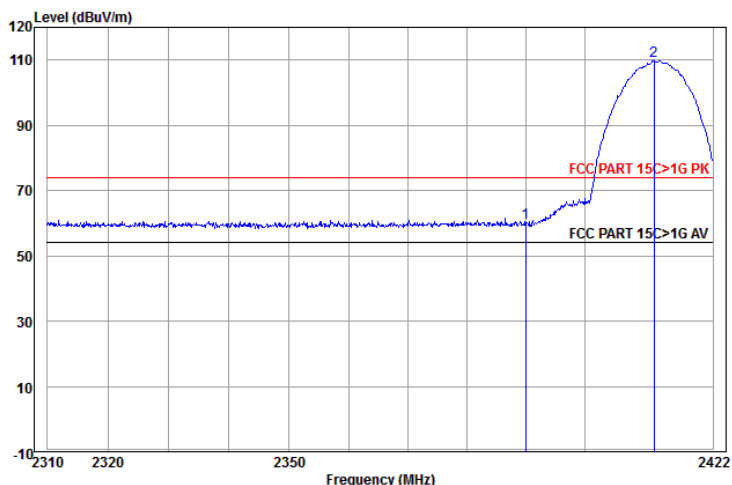
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

## Appendix H): Restricted bands around fundamental frequency (Radiated)

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |        |                  |            |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------|------------------|------------|
| Receiver Setup: | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Detector           | RBW    | VBW              | Remark     |
|                 | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Quasi-peak         | 120kHz | 300kHz           | Quasi-peak |
|                 | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Peak               | 1MHz   | 3MHz             | Peak       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Peak               | 1MHz   | 10Hz             | Average    |
| Test Procedure: | <p><b>Below 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> </ol> <p><b>Above 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber change form table 0.8 meter to 1.5 meter( Above 18GHz the distance is 1 meter and table is 1.5 meter).</li> <li>Test the EUT in the lowest channel , the Highest channel</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol> |                    |        |                  |            |
| Limit:          | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Limit (dBμV/m @3m) |        | Remark           |            |
|                 | 30MHz-88MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 40.0               |        | Quasi-peak Value |            |
|                 | 88MHz-216MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 43.5               |        | Quasi-peak Value |            |
|                 | 216MHz-960MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 46.0               |        | Quasi-peak Value |            |
|                 | 960MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 54.0               |        | Quasi-peak Value |            |
|                 | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 54.0               |        | Average Value    |            |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 74.0               |        | Peak Value       |            |

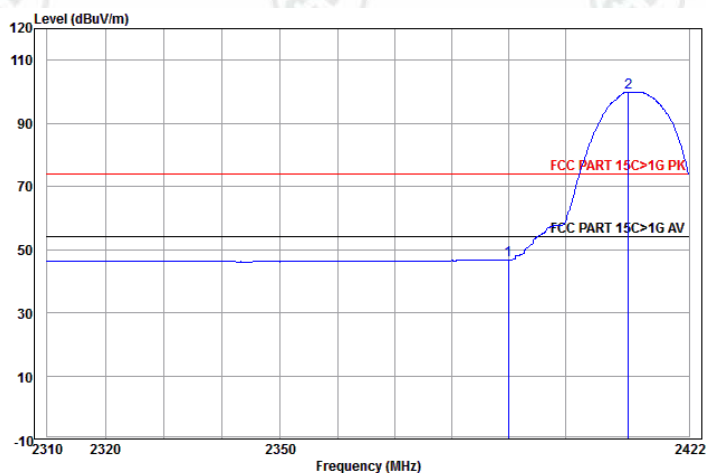
**Test plot as follows:**

|                    |                      |                          |              |
|--------------------|----------------------|--------------------------|--------------|
| Worse case mode:   | 802.11b (11Mbps)     |                          |              |
| Frequency: 2412MHz | Test channel: Lowest | Polarization: Horizontal | Remark: Peak |



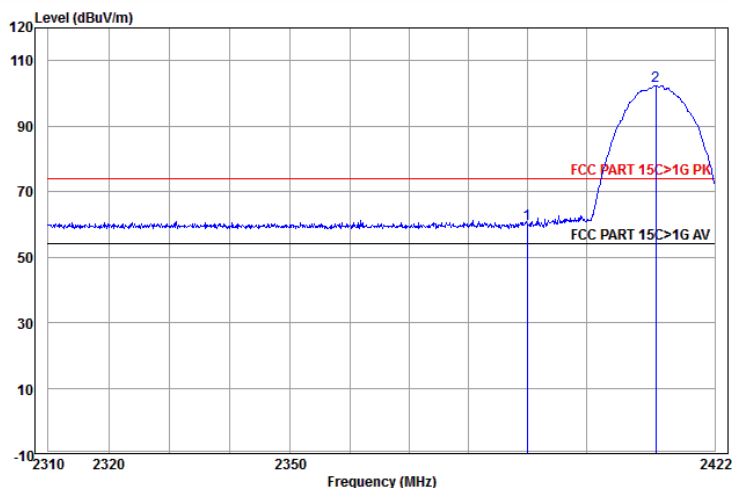
|      | Ant Freq | Cable Factor | Cable Loss | Read Level | Level  | Limit Line | Over Limit | Pol/Phase  | Remark |
|------|----------|--------------|------------|------------|--------|------------|------------|------------|--------|
|      | MHz      | dB/m         | dB         | dBuV       | dBuV/m | dBuV/m     | dB         |            |        |
| 1    | 2390.000 | 32.53        | 3.07       | 24.43      | 60.03  | 74.00      | -13.97     | Horizontal |        |
| 2 pp | 2411.930 | 32.58        | 3.08       | 74.05      | 109.71 | 74.00      | 35.71      | Horizontal |        |

|                    |                      |                          |                 |
|--------------------|----------------------|--------------------------|-----------------|
| Worse case mode:   | 802.11b (11Mbps)     |                          |                 |
| Frequency: 2412MHz | Test channel: Lowest | Polarization: Horizontal | Remark: Average |



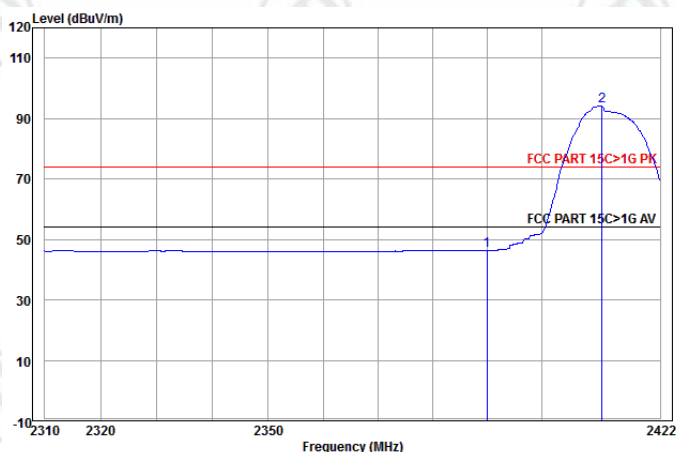
|      | Ant Freq | Cable Factor | Cable Loss | Read Level | Level  | Limit Line | Over Limit | Pol/Phase  | Remark  |
|------|----------|--------------|------------|------------|--------|------------|------------|------------|---------|
|      | MHz      | dB/m         | dB         | dBuV       | dBuV/m | dBuV/m     | dB         |            |         |
| 1    | 2390.000 | 32.53        | 3.07       | 11.19      | 46.79  | 54.00      | -7.21      | Horizontal | Average |
| 2 pp | 2411.245 | 32.58        | 3.08       | 64.24      | 99.90  | 54.00      | 45.90      | Horizontal | Average |

|                    |                      |                        |              |
|--------------------|----------------------|------------------------|--------------|
| Worse case mode:   | 802.11b (11Mbps)     |                        |              |
| Frequency: 2412MHz | Test channel: Lowest | Polarization: Vertical | Remark: Peak |



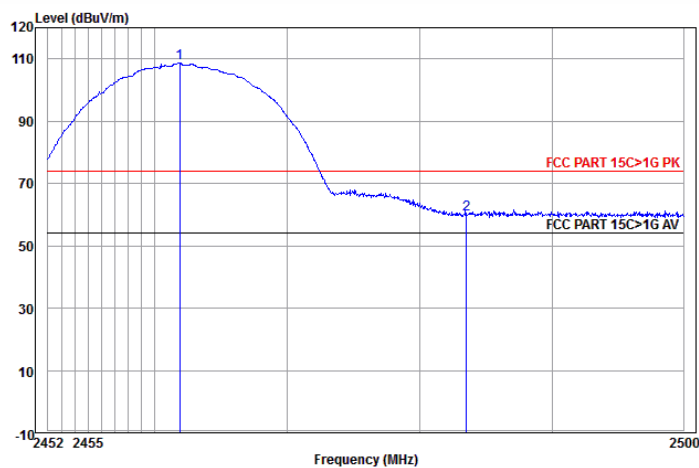
|      | Ant Freq | Cable Factor | Read Level | Limit Level | Over Limit | Pol/Phase | Remark          |
|------|----------|--------------|------------|-------------|------------|-----------|-----------------|
|      | MHz      | dB/m         | dB         | dBuV        | dBuV/m     | dB        |                 |
| 1    | 2390.000 | 32.53        | 3.07       | 24.49       | 60.09      | 74.00     | -13.91 Vertical |
| 2 pp | 2411.930 | 32.58        | 3.08       | 66.77       | 102.43     | 74.00     | 28.43 Vertical  |

|                    |                      |                        |                 |
|--------------------|----------------------|------------------------|-----------------|
| Worse case mode:   | 802.11b (11Mbps)     |                        |                 |
| Frequency: 2412MHz | Test channel: Lowest | Polarization: Vertical | Remark: Average |



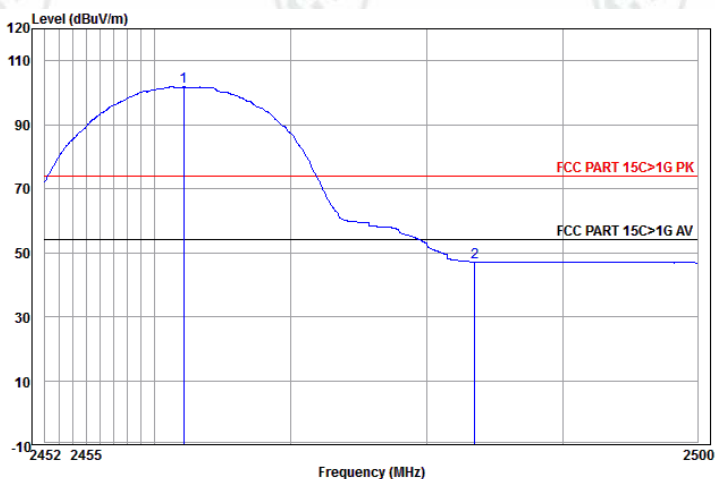
|      | Ant Freq | Cable Factor | Read Level | Limit Level | Over Limit | Pol/Phase | Remark         |
|------|----------|--------------|------------|-------------|------------|-----------|----------------|
|      | MHz      | dB/m         | dB         | dBuV        | dBuV/m     | dB        |                |
| 1    | 2390.000 | 32.53        | 3.07       | 10.86       | 46.46      | 54.00     | -7.54 Vertical |
| 2 pp | 2411.245 | 32.58        | 3.08       | 58.50       | 94.16      | 54.00     | 40.16 Vertical |

|                    |                       |                          |              |
|--------------------|-----------------------|--------------------------|--------------|
| Worse case mode:   | 802.11b (11Mbps)      |                          |              |
| Frequency: 2462MHz | Test channel: Highest | Polarization: Horizontal | Remark: Peak |



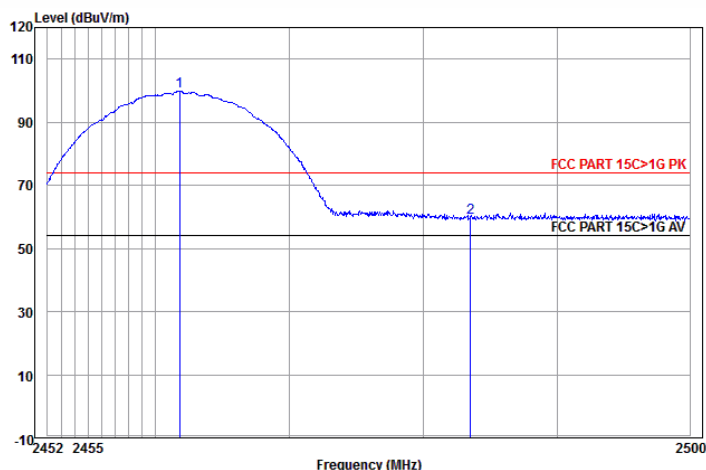
|      | Ant<br>Freq Factor | Cable<br>Loss | Read<br>Level | Level | Limit<br>Line | Over<br>Limit | Pol/Phase | Remark     |
|------|--------------------|---------------|---------------|-------|---------------|---------------|-----------|------------|
|      | MHz                | dB/m          | dB            | dBuV  | dBuV/m        | dBuV/m        | dB        |            |
| 1 pp | 2461.860           | 32.67         | 3.11          | 72.78 | 108.56        | 74.00         | 34.56     | Horizontal |
| 2    | 2483.500           | 32.71         | 3.12          | 24.33 | 60.16         | 74.00         | -13.84    | Horizontal |

|                    |                       |                          |                 |
|--------------------|-----------------------|--------------------------|-----------------|
| Worse case mode:   | 802.11b (11Mbps)      |                          |                 |
| Frequency: 2462MHz | Test channel: Highest | Polarization: Horizontal | Remark: Average |



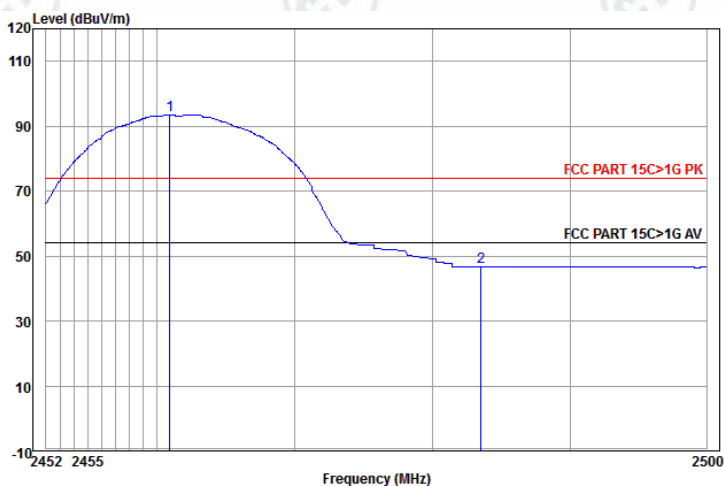
|      | Ant<br>Freq Factor | Cable<br>Loss | Read<br>Level | Level | Limit<br>Line | Over<br>Limit | Pol/Phase | Remark             |
|------|--------------------|---------------|---------------|-------|---------------|---------------|-----------|--------------------|
|      | MHz                | dB/m          | dB            | dBuV  | dBuV/m        | dBuV/m        | dB        |                    |
| 1 pp | 2462.146           | 32.67         | 3.11          | 66.06 | 101.84        | 54.00         | 47.84     | Horizontal Average |
| 2    | 2483.500           | 32.71         | 3.12          | 11.31 | 47.14         | 54.00         | -6.86     | Horizontal Average |

|                    |                       |                        |              |
|--------------------|-----------------------|------------------------|--------------|
| Worse case mode:   | 802.11b (11Mbps)      |                        |              |
| Frequency: 2462MHz | Test channel: Highest | Polarization: Vertical | Remark: Peak |



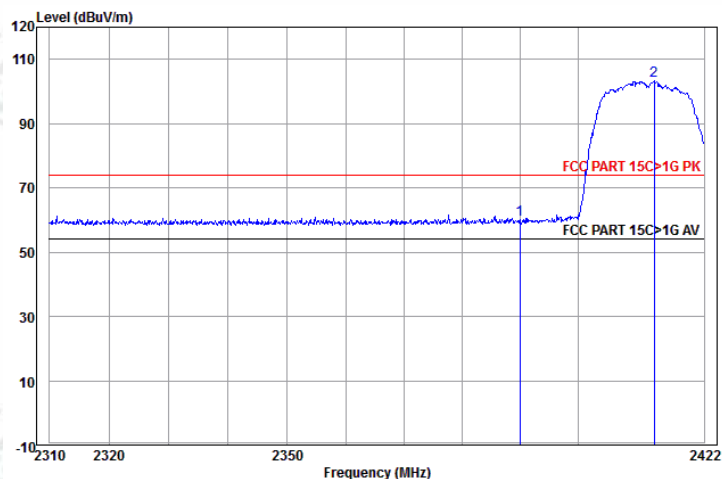
|   | Ant Freq    | Cable Factor | Cable Loss | Read Level | Level  | Limit Line | Over Limit | Pol/Phase | Remark |
|---|-------------|--------------|------------|------------|--------|------------|------------|-----------|--------|
|   | MHz         |              | dB         | dBuV       | dBuV/m | dBuV/m     | dB         |           |        |
| 1 | pp 2461.812 | 32.67        | 3.11       | 64.02      | 99.80  | 74.00      | 25.80      | Vertical  |        |
| 2 | 2483.500    | 32.71        | 3.12       | 23.84      | 59.67  | 74.00      | -14.33     | Vertical  |        |

|                    |                       |                        |                 |
|--------------------|-----------------------|------------------------|-----------------|
| Worse case mode:   | 802.11b (11Mbps)      |                        |                 |
| Frequency: 2462MHz | Test channel: Highest | Polarization: Vertical | Remark: Average |



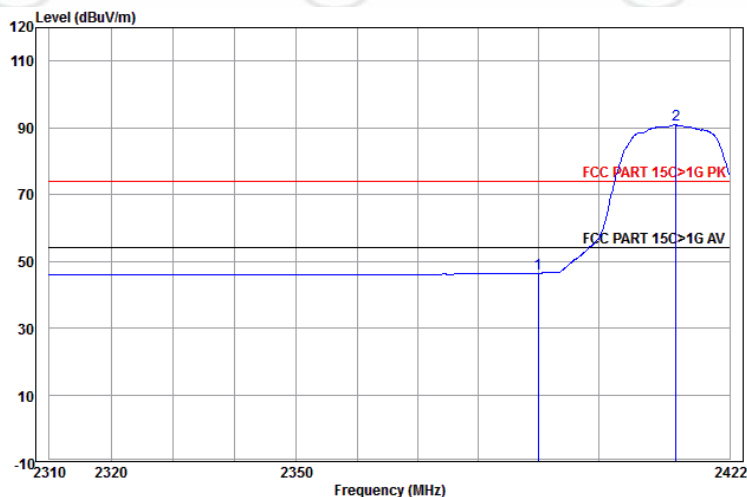
|   | Ant Freq    | Cable Factor | Cable Loss | Read Level | Level  | Limit Line | Over Limit | Pol/Phase | Remark  |
|---|-------------|--------------|------------|------------|--------|------------|------------|-----------|---------|
|   | MHz         |              | dB         | dBuV       | dBuV/m | dBuV/m     | dB         |           |         |
| 1 | pp 2460.906 | 32.67        | 3.11       | 57.71      | 93.49  | 54.00      | 39.49      | Vertical  | Average |
| 2 | 2483.500    | 32.71        | 3.12       | 10.79      | 46.62  | 54.00      | -7.38      | Vertical  | Average |

|                    |                      |                          |              |
|--------------------|----------------------|--------------------------|--------------|
| Worse case mode:   | 802.11g (6Mbps)      |                          |              |
| Frequency: 2412MHz | Test channel: Lowest | Polarization: Horizontal | Remark: Peak |



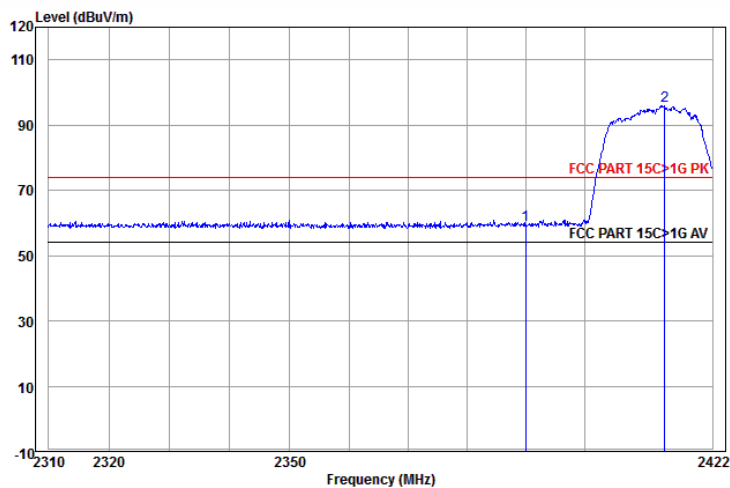
|   | Freq     | Ant    | Cable | Read  | Level  | Limit  | Over   | Pol/Phase  | Remark |
|---|----------|--------|-------|-------|--------|--------|--------|------------|--------|
|   | MHz      | Factor | Loss  | Level | Level  | Line   | Limit  |            |        |
|   | MHz      | dB/m   | dB    | dBuV  | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 2390.000 | 32.53  | 3.07  | 24.55 | 60.15  | 74.00  | -13.85 | Horizontal |        |
| 2 | 2412.301 | 32.58  | 3.08  | 67.67 | 103.33 | 74.00  | 29.33  | Horizontal |        |

|                    |                      |                          |                 |
|--------------------|----------------------|--------------------------|-----------------|
| Worse case mode:   | 802.11g (6Mbps)      |                          |                 |
| Frequency: 2412MHz | Test channel: Lowest | Polarization: Horizontal | Remark: Average |



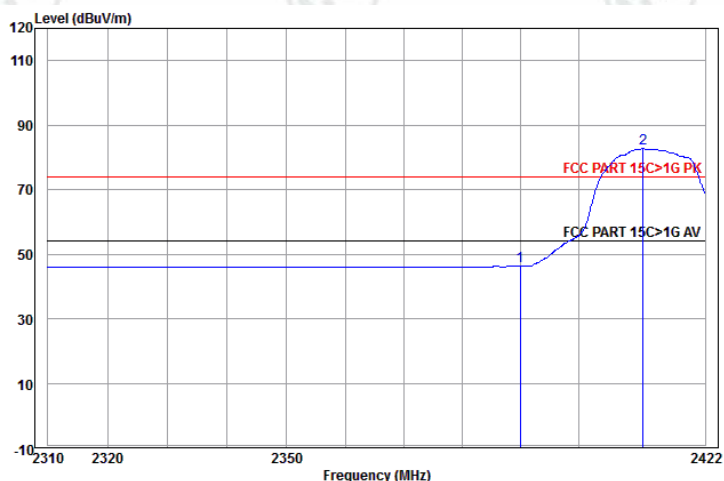
|   | Freq     | Ant    | Cable | Read  | Level  | Limit  | Over  | Pol/Phase  | Remark  |
|---|----------|--------|-------|-------|--------|--------|-------|------------|---------|
|   | MHz      | Factor | Loss  | Level | Level  | Line   | Limit |            |         |
|   | MHz      | dB/m   | dB    | dBuV  | dBuV/m | dBuV/m | dB    |            |         |
| 1 | 2390.000 | 32.53  | 3.07  | 10.85 | 46.45  | 54.00  | -7.55 | Horizontal | Average |
| 2 | 2412.958 | 32.58  | 3.08  | 55.24 | 90.90  | 54.00  | 36.90 | Horizontal | Average |

|                    |                      |                        |              |
|--------------------|----------------------|------------------------|--------------|
| Worse case mode:   | 802.11g (6Mbps)      |                        |              |
| Frequency: 2412MHz | Test channel: Lowest | Polarization: Vertical | Remark: Peak |



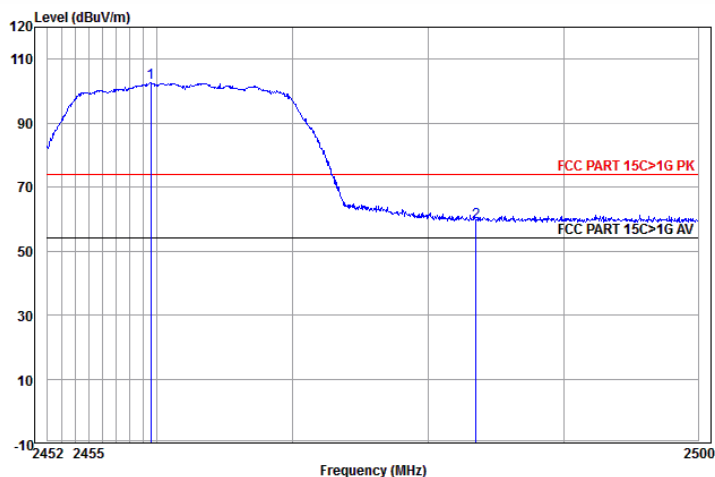
|      | Ant Freq | Cable Factor | Read Loss | Read Level | Level  | Limit Line | Over Limit | Pol/Phase | Remark |
|------|----------|--------------|-----------|------------|--------|------------|------------|-----------|--------|
|      | MHz      | dB/m         | dB        | dBuV       | dBuV/m | dBuV/m     | dB         |           |        |
| 1    | 2390.000 | 32.53        | 3.07      | 23.92      | 59.52  | 74.00      | -14.48     | Vertical  |        |
| 2 pp | 2413.758 | 32.58        | 3.08      | 60.38      | 96.04  | 74.00      | 22.04      | Vertical  |        |

|                    |                      |                        |                 |
|--------------------|----------------------|------------------------|-----------------|
| Worse case mode:   | 802.11g (6Mbps)      |                        |                 |
| Frequency: 2412MHz | Test channel: Lowest | Polarization: Vertical | Remark: Average |



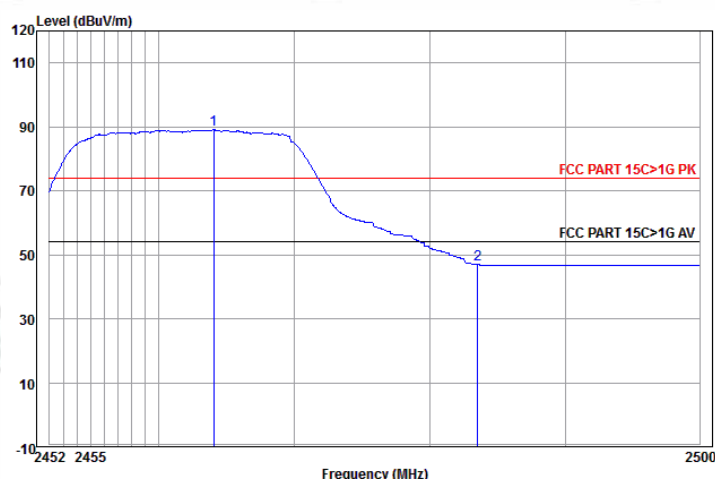
|      | Ant Freq | Cable Factor | Read Loss | Read Level | Level  | Limit Line | Over Limit | Pol/Phase | Remark  |
|------|----------|--------------|-----------|------------|--------|------------|------------|-----------|---------|
|      | MHz      | dB/m         | dB        | dBuV       | dBuV/m | dBuV/m     | dB         |           |         |
| 1    | 2390.000 | 32.53        | 3.07      | 10.68      | 46.28  | 54.00      | -7.72      | Vertical  | Average |
| 2 pp | 2411.245 | 32.58        | 3.08      | 47.10      | 82.76  | 54.00      | 28.76      | Vertical  | Average |

|                    |                       |                          |              |
|--------------------|-----------------------|--------------------------|--------------|
| Worse case mode:   | 802.11g (6Mbps)       |                          |              |
| Frequency: 2462MHz | Test channel: Highest | Polarization: Horizontal | Remark: Peak |



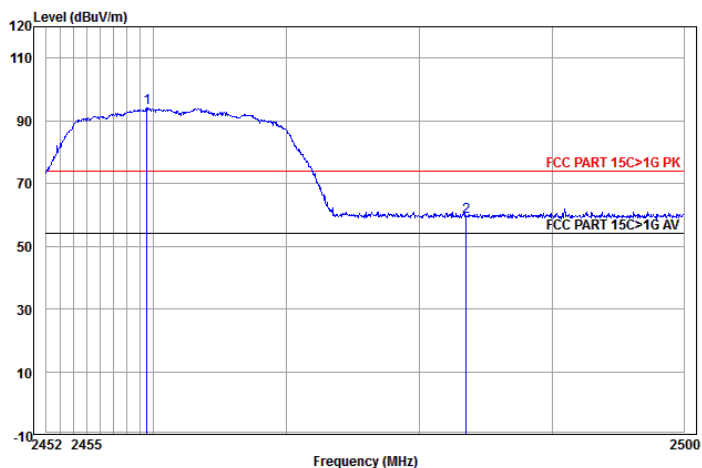
|   | Ant Freq    | Cable Factor | Cable Loss | Read Level | Level  | Limit Line | Over Limit | Pol/Phase  | Remark |
|---|-------------|--------------|------------|------------|--------|------------|------------|------------|--------|
|   | MHz         | dB/m         | dB         | dBuV       | dBuV/m | dBuV/m     | dB         |            |        |
| 1 | pp 2459.570 | 32.67        | 3.11       | 66.77      | 102.55 | 74.00      | 28.55      | Horizontal |        |
| 2 | 2483.500    | 32.71        | 3.12       | 23.27      | 59.10  | 74.00      | -14.90     | Horizontal |        |

|                    |                       |                          |                 |
|--------------------|-----------------------|--------------------------|-----------------|
| Worse case mode:   | 802.11g (6Mbps)       |                          |                 |
| Frequency: 2462MHz | Test channel: Highest | Polarization: Horizontal | Remark: Average |



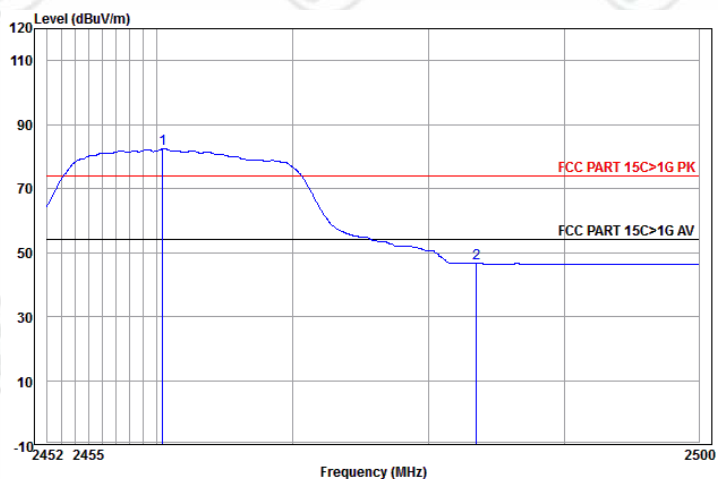
|   | Ant Freq    | Cable Factor | Cable Loss | Read Level | Level  | Limit Line | Over Limit | Pol/Phase  | Remark  |
|---|-------------|--------------|------------|------------|--------|------------|------------|------------|---------|
|   | MHz         | dB/m         | dB         | dBuV       | dBuV/m | dBuV/m     | dB         |            |         |
| 1 | pp 2464.056 | 32.68        | 3.11       | 53.33      | 89.12  | 54.00      | 35.12      | Horizontal | Average |
| 2 | 2483.500    | 32.71        | 3.12       | 11.03      | 46.86  | 54.00      | -7.14      | Horizontal | Average |

|                    |                       |                        |              |
|--------------------|-----------------------|------------------------|--------------|
| Worse case mode:   | 802.11g (6Mbps)       |                        |              |
| Frequency: 2462MHz | Test channel: Highest | Polarization: Vertical | Remark: Peak |



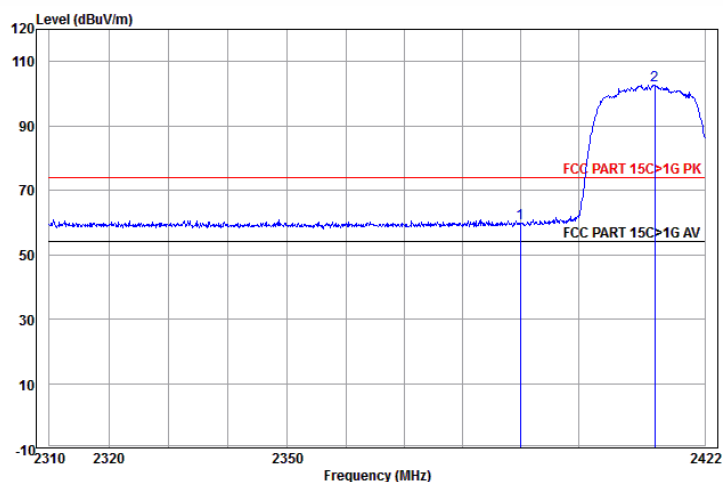
|   |             | Ant    | Cable | Read  | Limit  | Over  |           |          |
|---|-------------|--------|-------|-------|--------|-------|-----------|----------|
|   | Freq        | Factor | Loss  | Level | Line   | Limit | Pol/Phase | Remark   |
|   | MHz         | dB/m   | dB    | dBuV  | dBuV/m | dB    |           |          |
| 1 | pp 2459.522 | 32.67  | 3.11  | 58.22 | 94.00  | 74.00 | 20.00     | Vertical |
| 2 | 2483.500    | 32.71  | 3.12  | 23.49 | 59.32  | 74.00 | -14.68    | Vertical |

|                    |                       |                        |                 |
|--------------------|-----------------------|------------------------|-----------------|
| Worse case mode:   | 802.11g (6Mbps)       |                        |                 |
| Frequency: 2462MHz | Test channel: Highest | Polarization: Vertical | Remark: Average |



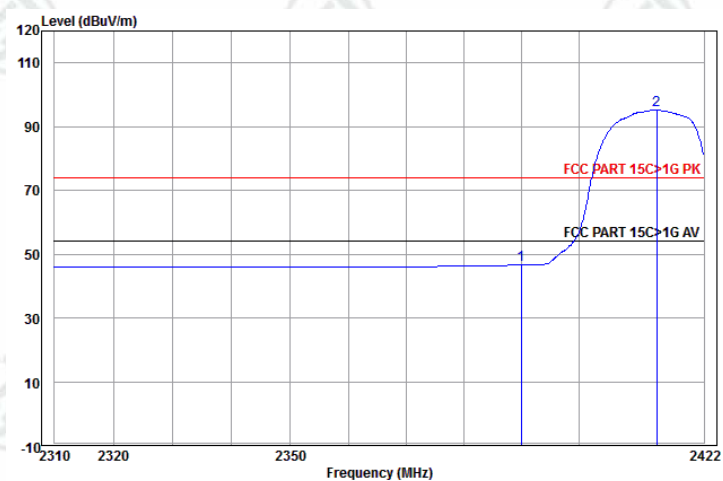
|   |             | Ant    | Cable | Read  | Limit  | Over  |           |                  |
|---|-------------|--------|-------|-------|--------|-------|-----------|------------------|
|   | Freq        | Factor | Loss  | Level | Line   | Limit | Pol/Phase | Remark           |
|   | MHz         | dB/m   | dB    | dBuV  | dBuV/m | dB    |           |                  |
| 1 | pp 2460.428 | 32.67  | 3.11  | 46.67 | 82.45  | 54.00 | 28.45     | Vertical Average |
| 2 | 2483.500    | 32.71  | 3.12  | 10.69 | 46.52  | 54.00 | -7.48     | Vertical Average |

|                    |                         |                          |              |
|--------------------|-------------------------|--------------------------|--------------|
| Worse case mode:   | 802.11n(HT20) (6.5Mbps) |                          |              |
| Frequency: 2412MHz | Test channel: Lowest    | Polarization: Horizontal | Remark: Peak |



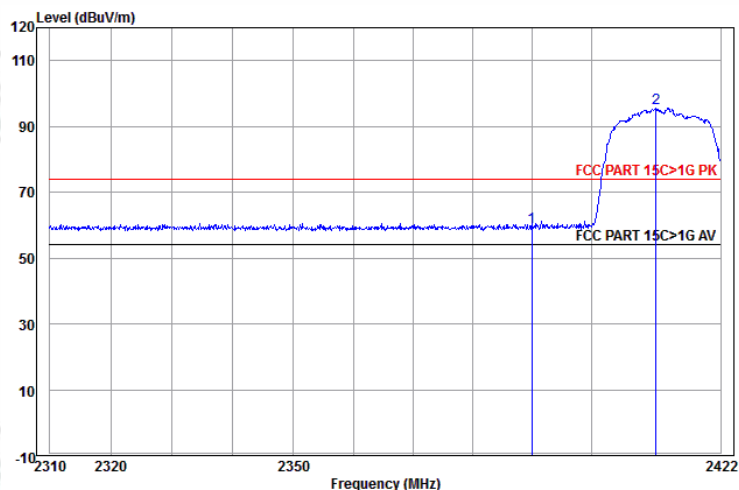
|      | Ant<br>Freq | Factor | Cable<br>Loss | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Pol/Phase  | Remark |
|------|-------------|--------|---------------|---------------|--------|---------------|---------------|------------|--------|
|      | MHz         | dB/m   | dB            | dBuV          | dBuV/m | dBuV/m        | dB            |            |        |
| 1    | 2390.000    | 32.53  | 3.07          | 24.02         | 59.62  | 74.00         | -14.38        | Horizontal |        |
| 2 pp | 2413.301    | 32.58  | 3.08          | 67.11         | 102.77 | 74.00         | 28.77         | Horizontal |        |

|                    |                         |                          |                 |
|--------------------|-------------------------|--------------------------|-----------------|
| Worse case mode:   | 802.11n(HT20) (6.5Mbps) |                          |                 |
| Frequency: 2412MHz | Test channel: Lowest    | Polarization: Horizontal | Remark: Average |



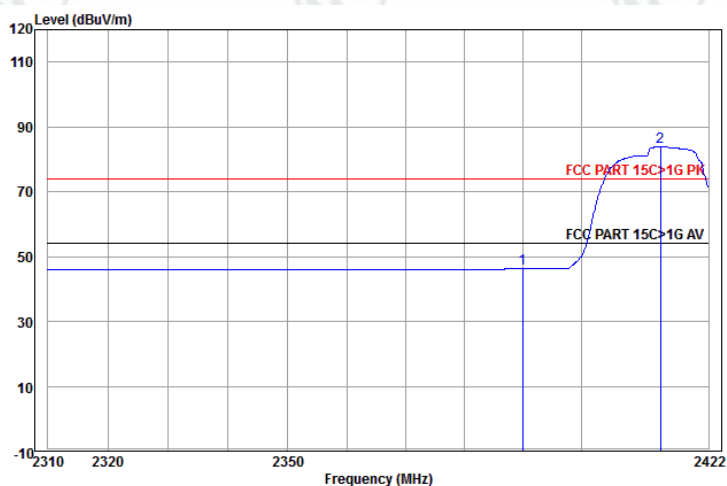
|      | Ant<br>Freq | Factor | Cable<br>Loss | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Pol/Phase  | Remark  |
|------|-------------|--------|---------------|---------------|--------|---------------|---------------|------------|---------|
|      | MHz         | dB/m   | dB            | dBuV          | dBuV/m | dBuV/m        | dB            |            |         |
| 1    | 2390.000    | 32.53  | 3.07          | 10.98         | 46.58  | 54.00         | -7.42         | Horizontal | Average |
| 2 pp | 2413.643    | 32.58  | 3.08          | 59.53         | 95.19  | 54.00         | 41.19         | Horizontal | Average |

|                    |                         |                        |              |
|--------------------|-------------------------|------------------------|--------------|
| Worse case mode:   | 802.11n(HT20) (6.5Mbps) |                        |              |
| Frequency: 2412MHz | Test channel: Lowest    | Polarization: Vertical | Remark: Peak |



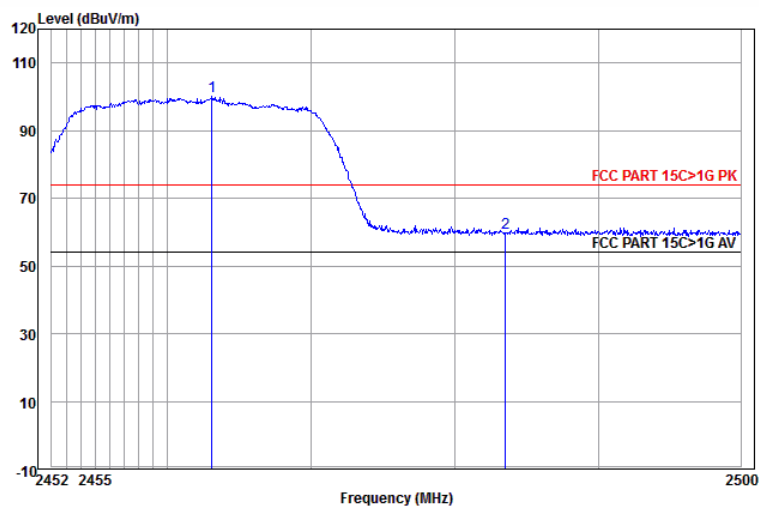
|      | Ant Freq | Cable Factor | Read Loss | Level | Level  | Limit  | Over   | Pol/Phase | Remark |
|------|----------|--------------|-----------|-------|--------|--------|--------|-----------|--------|
|      | MHz      | dB/m         | dB        | dBuV  | dBuV/m | dBuV/m | dB     |           |        |
| 1    | 2390.000 | 32.53        | 3.07      | 23.93 | 59.53  | 74.00  | -14.47 | Vertical  |        |
| 2 pp | 2411.016 | 32.58        | 3.08      | 59.93 | 95.59  | 74.00  | 21.59  | Vertical  |        |

|                    |                         |                        |                 |
|--------------------|-------------------------|------------------------|-----------------|
| Worse case mode:   | 802.11n(HT20) (6.5Mbps) |                        |                 |
| Frequency: 2412MHz | Test channel: Lowest    | Polarization: Vertical | Remark: Average |



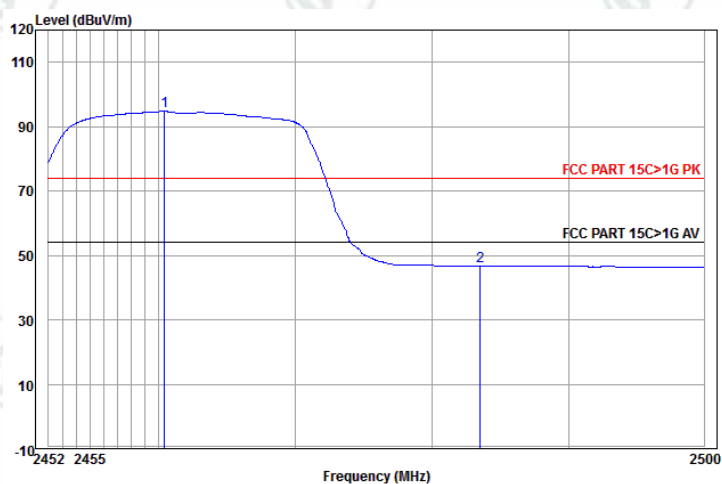
|      | Ant Freq | Cable Factor | Read Loss | Level | Level  | Limit  | Over  | Pol/Phase | Remark  |
|------|----------|--------------|-----------|-------|--------|--------|-------|-----------|---------|
|      | MHz      | dB/m         | dB        | dBuV  | dBuV/m | dBuV/m | dB    |           |         |
| 1    | 2390.000 | 32.53        | 3.07      | 10.66 | 46.26  | 54.00  | -7.74 | Vertical  | Average |
| 2 pp | 2413.643 | 32.58        | 3.08      | 48.18 | 83.84  | 54.00  | 29.84 | Vertical  | Average |

|                    |                         |                          |              |
|--------------------|-------------------------|--------------------------|--------------|
| Worse case mode:   | 802.11n(HT20) (6.5Mbps) |                          |              |
| Frequency: 2462MHz | Test channel: Highest   | Polarization: Horizontal | Remark: Peak |



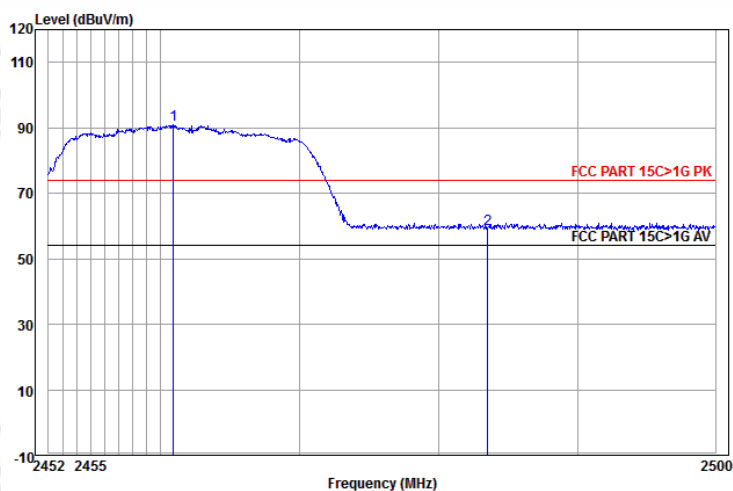
|      | Ant<br>Freq | Cable<br>Factor | Read<br>Level | Level | Limit<br>Line | Over<br>Limit | Pol/Phase | Remark     |
|------|-------------|-----------------|---------------|-------|---------------|---------------|-----------|------------|
|      | MHz         | dB/m            | dB            | dBuV  | dBuV/m        | dBuV/m        | dB        |            |
| 1 pp | 2463.101    | 32.68           | 3.11          | 64.39 | 100.18        | 74.00         | 26.18     | Horizontal |
| 2    | 2483.500    | 32.71           | 3.12          | 24.05 | 59.88         | 74.00         | -14.12    | Horizontal |

|                    |                         |                          |                 |
|--------------------|-------------------------|--------------------------|-----------------|
| Worse case mode:   | 802.11n(HT20) (6.5Mbps) |                          |                 |
| Frequency: 2462MHz | Test channel: Highest   | Polarization: Horizontal | Remark: Average |



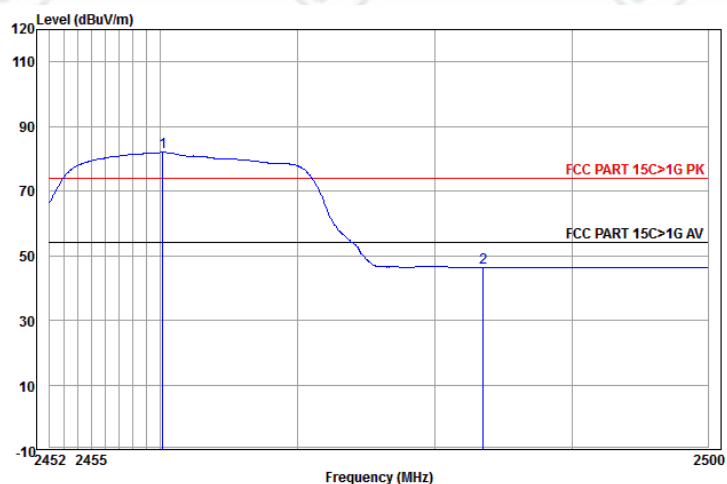
|      | Ant<br>Freq | Cable<br>Factor | Read<br>Level | Level | Limit<br>Line | Over<br>Limit | Pol/Phase | Remark             |
|------|-------------|-----------------|---------------|-------|---------------|---------------|-----------|--------------------|
|      | MHz         | dB/m            | dB            | dBuV  | dBuV/m        | dBuV/m        | dB        |                    |
| 1 pp | 2460.428    | 32.67           | 3.11          | 59.00 | 94.78         | 54.00         | 40.78     | Horizontal Average |
| 2    | 2483.500    | 32.71           | 3.12          | 10.83 | 46.66         | 54.00         | -7.34     | Horizontal Average |

|                    |                         |                        |              |
|--------------------|-------------------------|------------------------|--------------|
| Worse case mode:   | 802.11n(HT20) (6.5Mbps) |                        |              |
| Frequency: 2462MHz | Test channel: Highest   | Polarization: Vertical | Remark: Peak |



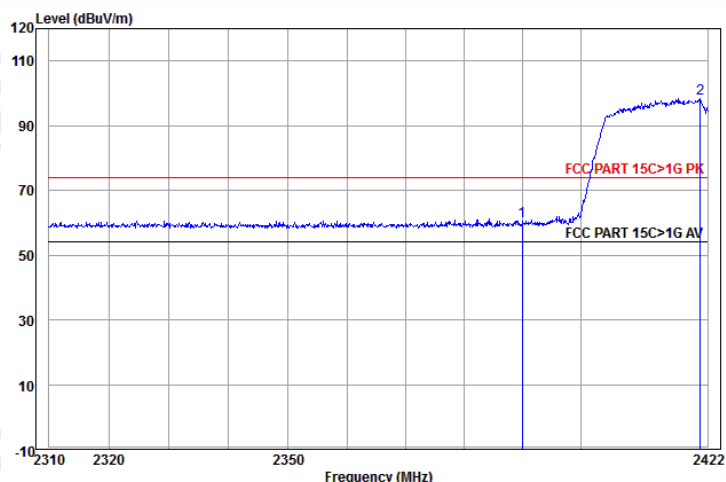
|      | Ant Freq | Cable Factor | Cable Loss | Read Level | Level  | Limit Line | Over Limit | Pol/Phase | Remark |
|------|----------|--------------|------------|------------|--------|------------|------------|-----------|--------|
|      | MHz      | dB/m         | dB         | dBuV       | dBuV/m | dBuV/m     | dB         |           |        |
| 1 pp | 2460.906 | 32.67        | 3.11       | 55.09      | 90.87  | 74.00      | 16.87      | Vertical  |        |
| 2    | 2483.500 | 32.71        | 3.12       | 23.31      | 59.14  | 74.00      | -14.86     | Vertical  |        |

|                    |                         |                        |                 |
|--------------------|-------------------------|------------------------|-----------------|
| Worse case mode:   | 802.11n(HT20) (6.5Mbps) |                        |                 |
| Frequency: 2462MHz | Test channel: Highest   | Polarization: Vertical | Remark: Average |



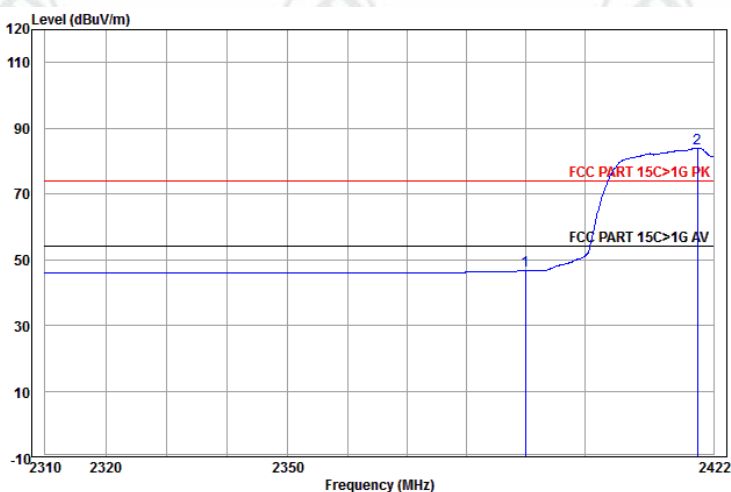
|      | Ant Freq | Cable Factor | Cable Loss | Read Level | Level  | Limit Line | Over Limit | Pol/Phase | Remark  |
|------|----------|--------------|------------|------------|--------|------------|------------|-----------|---------|
|      | MHz      | dB/m         | dB         | dBuV       | dBuV/m | dBuV/m     | dB         |           |         |
| 1 pp | 2460.190 | 32.67        | 3.11       | 46.17      | 81.95  | 54.00      | 27.95      | Vertical  | Average |
| 2    | 2483.500 | 32.71        | 3.12       | 10.65      | 46.48  | 54.00      | -7.52      | Vertical  | Average |

|                    |                         |                          |              |
|--------------------|-------------------------|--------------------------|--------------|
| Worse case mode:   | 802.11n(HT40) (6.5Mbps) |                          |              |
| Frequency: 2422MHz | Test channel: Lowest    | Polarization: Horizontal | Remark: Peak |



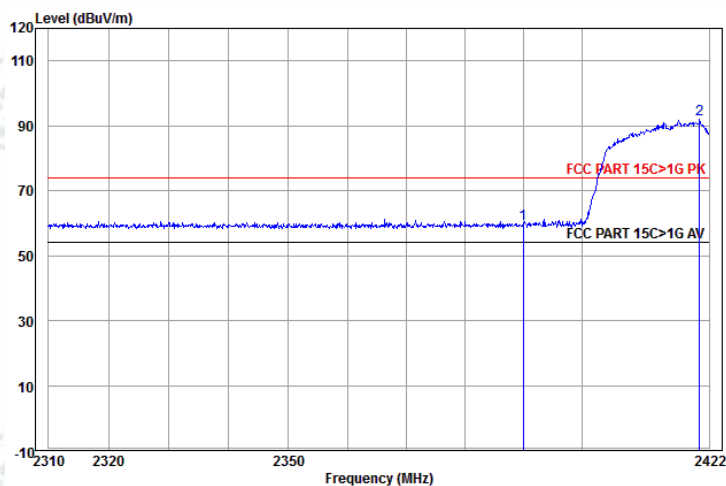
|      | Ant Freq | Cable Factor | Read Level | Level | Limit Line | Over Limit | Pol/Phase | Remark     |
|------|----------|--------------|------------|-------|------------|------------|-----------|------------|
|      | MHz      | dB/m         | dB         | dBuV  | dBuV/m     | dBuV/m     | dB        |            |
| 1    | 2390.000 | 32.53        | 3.07       | 24.82 | 60.42      | 74.00      | -13.58    | Horizontal |
| 2 pp | 2420.739 | 32.59        | 3.08       | 62.67 | 98.34      | 74.00      | 24.34     | Horizontal |

|                    |                         |                          |                 |
|--------------------|-------------------------|--------------------------|-----------------|
| Worse case mode:   | 802.11n(HT40) (6.5Mbps) |                          |                 |
| Frequency: 2422MHz | Test channel: Lowest    | Polarization: Horizontal | Remark: Average |



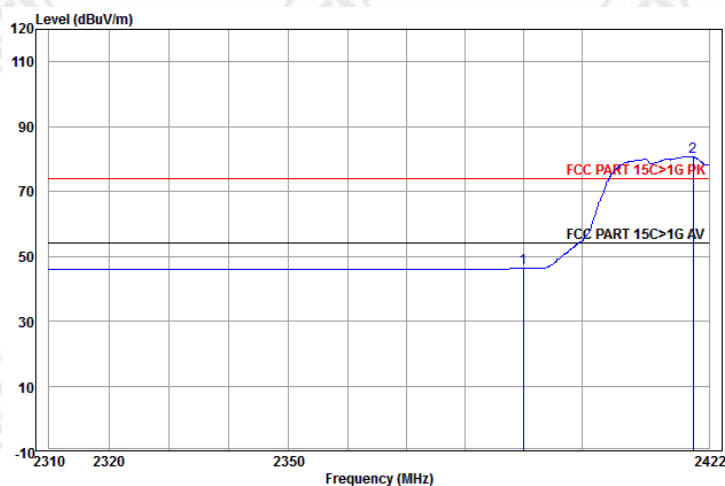
|      | Ant Freq | Cable Factor | Read Level | Level | Limit Line | Over Limit | Pol/Phase | Remark             |
|------|----------|--------------|------------|-------|------------|------------|-----------|--------------------|
|      | MHz      | dB/m         | dB         | dBuV  | dBuV/m     | dBuV/m     | dB        |                    |
| 1    | 2390.000 | 32.53        | 3.07       | 10.98 | 46.58      | 54.00      | -7.42     | Horizontal Average |
| 2 pp | 2419.250 | 32.59        | 3.08       | 48.31 | 83.98      | 54.00      | 29.98     | Horizontal Average |

|                    |                         |                        |              |
|--------------------|-------------------------|------------------------|--------------|
| Worse case mode:   | 802.11n(HT40) (6.5Mbps) |                        |              |
| Frequency: 2422MHz | Test channel: Lowest    | Polarization: Vertical | Remark: Peak |



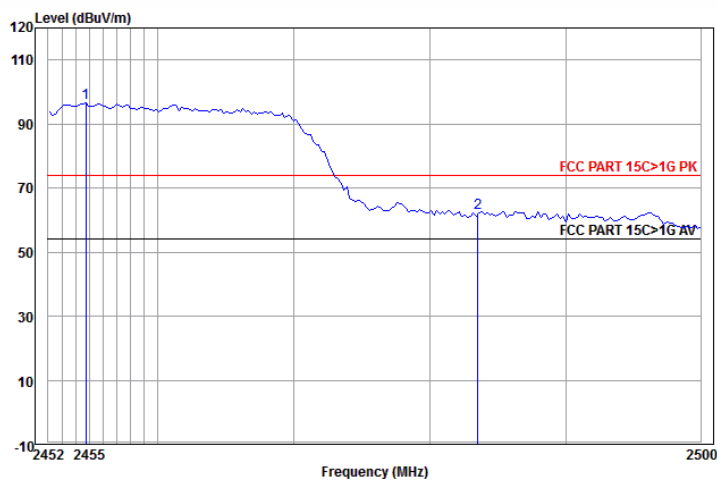
|      | Ant Freq | Cable Factor | Cable Loss | Read Level | Level  | Limit Line | Over Limit | Pol/Phase | Remark |
|------|----------|--------------|------------|------------|--------|------------|------------|-----------|--------|
|      | MHz      |              | dB         | dBuV       | dBuV/m | dBuV/m     | dB         |           |        |
| 1    | 2390.000 | 32.53        | 3.07       | 24.16      | 59.76  | 74.00      | -14.24     | Vertical  |        |
| 2 pp | 2420.395 | 32.59        | 3.08       | 56.44      | 92.11  | 74.00      | 18.11      | Vertical  |        |

|                    |                         |                        |                 |
|--------------------|-------------------------|------------------------|-----------------|
| Worse case mode:   | 802.11n(HT40) (6.5Mbps) |                        |                 |
| Frequency: 2422MHz | Test channel: Lowest    | Polarization: Vertical | Remark: Average |



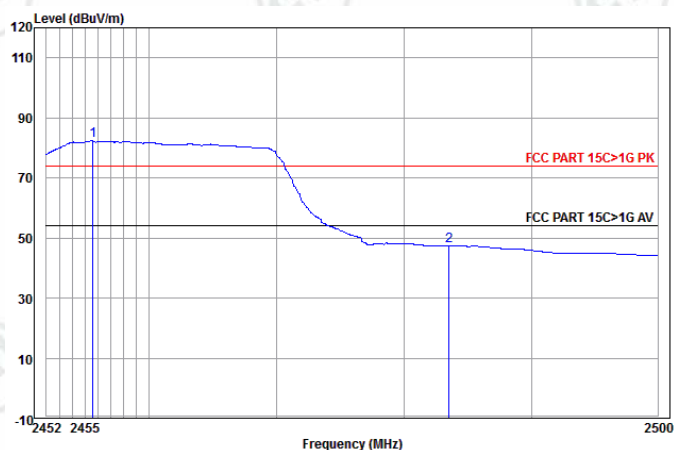
|      | Ant Freq | Cable Factor | Cable Loss | Read Level | Level  | Limit Line | Over Limit | Pol/Phase | Remark  |
|------|----------|--------------|------------|------------|--------|------------|------------|-----------|---------|
|      | MHz      |              | dB         | dBuV       | dBuV/m | dBuV/m     | dB         |           |         |
| 1    | 2390.000 | 32.53        | 3.07       | 10.66      | 46.26  | 54.00      | -7.74      | Vertical  | Average |
| 2 pp | 2419.250 | 32.59        | 3.08       | 45.06      | 80.73  | 54.00      | 26.73      | Vertical  | Average |

|                    |                         |                          |              |
|--------------------|-------------------------|--------------------------|--------------|
| Worse case mode:   | 802.11n(HT40) (6.5Mbps) |                          |              |
| Frequency: 2452MHz | Test channel: Highest   | Polarization: Horizontal | Remark: Peak |



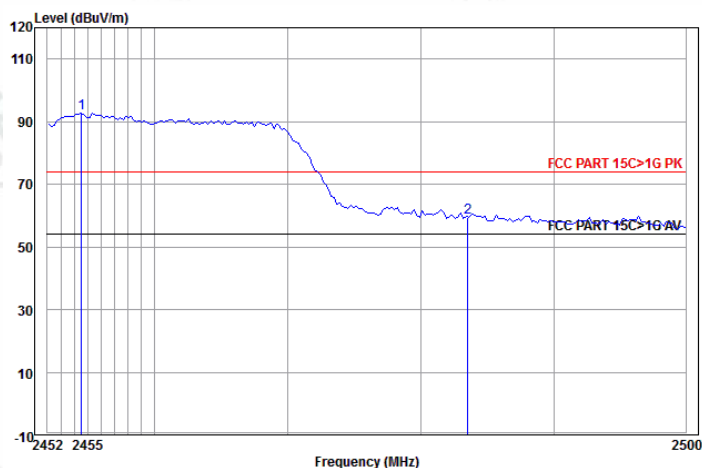
|   | Ant Freq    | Cable Factor | Read Level | Level | Limit Line | Over Limit | Pol/Phase | Remark     |
|---|-------------|--------------|------------|-------|------------|------------|-----------|------------|
|   | MHz         | dB/m         | dB         | dBuV  | dBuV/m     | dBuV/m     | dB        |            |
| 1 | pp 2454.763 | 32.66        | 3.10       | 60.71 | 96.47      | 74.00      | 22.47     | Horizontal |
| 2 | 2483.500    | 32.71        | 3.12       | 26.44 | 62.27      | 74.00      | -11.73    | Horizontal |

|                    |                         |                          |                 |
|--------------------|-------------------------|--------------------------|-----------------|
| Worse case mode:   | 802.11n(HT40) (6.5Mbps) |                          |                 |
| Frequency: 2452MHz | Test channel: Highest   | Polarization: Horizontal | Remark: Average |



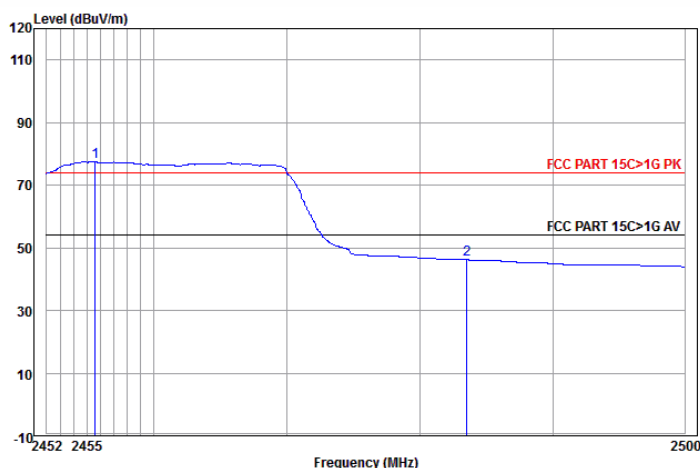
|   | Ant Freq    | Cable Factor | Read Level | Level | Limit Line | Over Limit | Pol/Phase | Remark             |
|---|-------------|--------------|------------|-------|------------|------------|-----------|--------------------|
|   | MHz         | dB/m         | dB         | dBuV  | dBuV/m     | dBuV/m     | dB        |                    |
| 1 | pp 2455.615 | 32.66        | 3.10       | 46.57 | 82.33      | 54.00      | 28.33     | Horizontal Average |
| 2 | 2483.500    | 32.71        | 3.12       | 11.56 | 47.39      | 54.00      | -6.61     | Horizontal Average |

|                    |                         |                        |              |
|--------------------|-------------------------|------------------------|--------------|
| Worse case mode:   | 802.11n(HT40) (6.5Mbps) |                        |              |
| Frequency: 2452MHz | Test channel: Highest   | Polarization: Vertical | Remark: Peak |



|      | Ant Freq | Cable Factor | Read Level | Limit Level | Over Limit | Pol/Phase | Remark          |
|------|----------|--------------|------------|-------------|------------|-----------|-----------------|
|      | MHz      | dB/m         | dB         | dBuV        | dBuV/m     | dB        |                 |
| 1 pp | 2454.558 | 32.66        | 3.10       | 57.06       | 92.82      | 74.00     | 18.82 Vertical  |
| 2    | 2483.500 | 32.71        | 3.12       | 23.52       | 59.35      | 74.00     | -14.65 Vertical |

|                    |                         |                        |                 |
|--------------------|-------------------------|------------------------|-----------------|
| Worse case mode:   | 802.11n(HT40) (6.5Mbps) |                        |                 |
| Frequency: 2452MHz | Test channel: Highest   | Polarization: Vertical | Remark: Average |



|      | Ant Freq | Cable Factor | Read Level | Limit Level | Over Limit | Pol/Phase | Remark                 |
|------|----------|--------------|------------|-------------|------------|-----------|------------------------|
|      | MHz      | dB/m         | dB         | dBuV        | dBuV/m     | dB        |                        |
| 1 pp | 2455.615 | 32.66        | 3.10       | 41.81       | 77.57      | 54.00     | 23.57 Vertical Average |
| 2    | 2483.500 | 32.71        | 3.12       | 10.35       | 46.18      | 54.00     | -7.82 Vertical Average |

Note:1) Through Pre-scan transmitting mode and charge+transmitter mode with all kind of modulation and data rate, find the 11Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40),and then Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor- Antenna Factor-Cable Factor

## Appendix I): Radiated Spurious Emissions

Receiver Setup:

| Frequency         | Detector   | RBW    | VBW    | Remark     |
|-------------------|------------|--------|--------|------------|
| 0.009MHz-0.090MHz | Peak       | 10kHz  | 30kHz  | Peak       |
| 0.009MHz-0.090MHz | Average    | 10kHz  | 30kHz  | Average    |
| 0.090MHz-0.110MHz | Quasi-peak | 10kHz  | 30kHz  | Quasi-peak |
| 0.110MHz-0.490MHz | Peak       | 10kHz  | 30kHz  | Peak       |
| 0.110MHz-0.490MHz | Average    | 10kHz  | 30kHz  | Average    |
| 0.490MHz -30MHz   | Quasi-peak | 10kHz  | 30kHz  | Quasi-peak |
| 30MHz-1GHz        | Quasi-peak | 120kHz | 300kHz | Quasi-peak |
| Above 1GHz        | Peak       | 1MHz   | 3MHz   | Peak       |
|                   | Peak       | 1MHz   | 10Hz   | Average    |

Test Procedure:

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter( Above 18GHz the distance is 1 meter and table is 1.5 meter)..

h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.

j. Repeat above procedures until all frequencies measured was complete.

Limit:

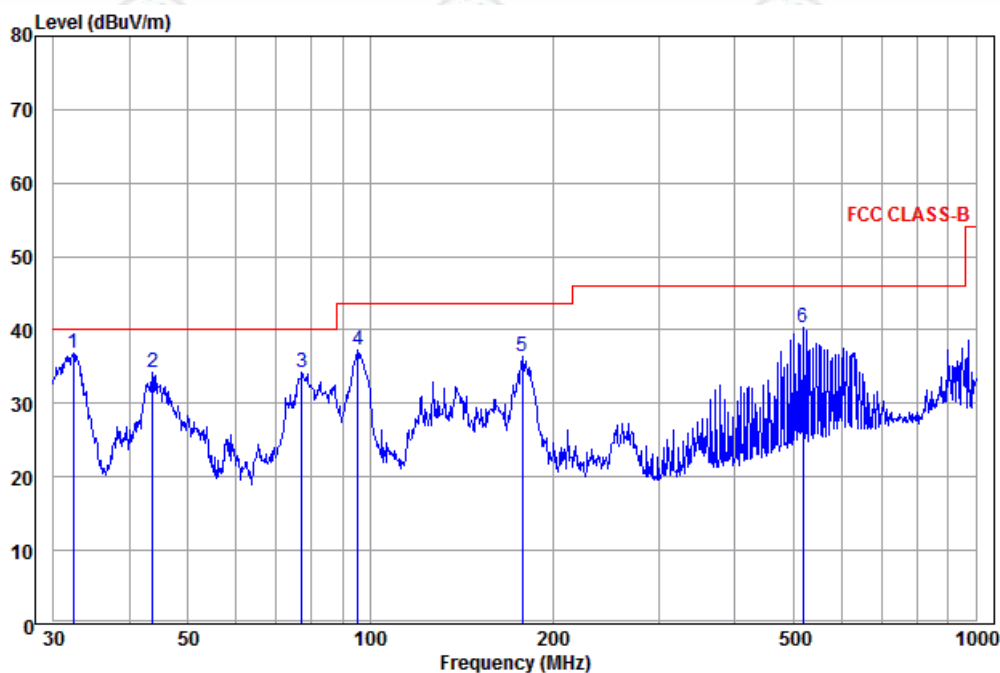
| Frequency         | Field strength (microvolt/meter) | Limit (dBμV/m) | Remark     | Measurement distance (m) |
|-------------------|----------------------------------|----------------|------------|--------------------------|
| 0.009MHz-0.490MHz | 2400/F(kHz)                      | -              | -          | 300                      |
| 0.490MHz-1.705MHz | 24000/F(kHz)                     | -              | -          | 30                       |
| 1.705MHz-30MHz    | 30                               | -              | -          | 30                       |
| 30MHz-88MHz       | 100                              | 40.0           | Quasi-peak | 3                        |
| 88MHz-216MHz      | 150                              | 43.5           | Quasi-peak | 3                        |
| 216MHz-960MHz     | 200                              | 46.0           | Quasi-peak | 3                        |
| 960MHz-1GHz       | 500                              | 54.0           | Quasi-peak | 3                        |
| Above 1GHz        | 500                              | 54.0           | Average    | 3                        |

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

# **Radiated Spurious Emissions test Data:** **Radiated Emission below 1GHz**

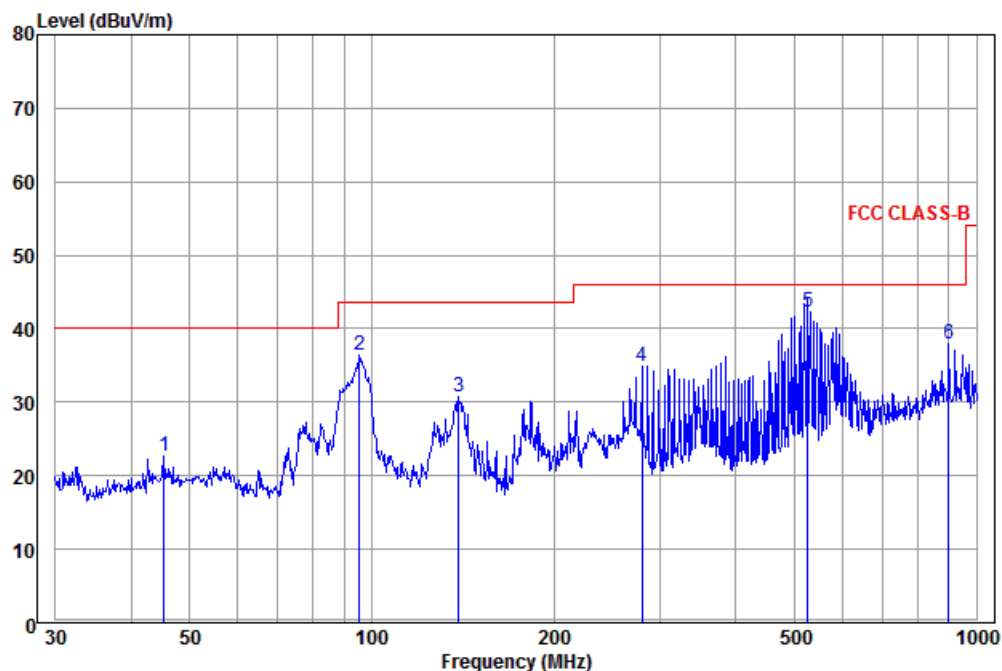
30MHz~1GHz (QP)

|            |              |          |
|------------|--------------|----------|
| Test mode: | Transmitting | Vertical |
|------------|--------------|----------|



|   |      | Ant     | Cable | Read  | Limit  | Over   |       |           |             |
|---|------|---------|-------|-------|--------|--------|-------|-----------|-------------|
|   | Freq | Factor  | Loss  | Level | Level  | Limit  | Limit | Pol/Phase | Remark      |
|   | MHz  | dB/m    | dB    | dBuV  | dBuV/m | dBuV/m | dB    |           |             |
| 1 | pp   | 32.293  | 12.39 | 0.08  | 24.29  | 36.76  | 40.00 | -3.24     | Vertical QP |
| 2 |      | 43.659  | 14.11 | 0.07  | 20.03  | 34.21  | 40.00 | -5.79     | Vertical QP |
| 3 |      | 77.051  | 9.11  | 0.37  | 24.75  | 34.23  | 40.00 | -5.77     | Vertical QP |
| 4 |      | 95.427  | 11.79 | 0.51  | 25.00  | 37.30  | 43.50 | -6.20     | Vertical QP |
| 5 |      | 178.133 | 10.41 | 0.90  | 25.08  | 36.39  | 43.50 | -7.11     | Vertical QP |
| 6 |      | 519.065 | 17.25 | 1.53  | 21.47  | 40.25  | 46.00 | -5.75     | Vertical QP |

|            |              |            |
|------------|--------------|------------|
| Test mode: | Transmitting | Horizontal |
|------------|--------------|------------|



|      | Ant<br>Freq | Cable<br>Factor | Cable<br>Loss | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Pol/Phase  | Remark |
|------|-------------|-----------------|---------------|---------------|--------|---------------|---------------|------------|--------|
|      | MHz         | dB/m            | dB            | dBuV          | dBuV/m | dBuV/m        | dB            |            |        |
| 1    | 45.375      | 14.25           | 0.08          | 8.38          | 22.71  | 40.00         | -17.29        | Horizontal | QP     |
| 2    | 95.427      | 11.79           | 0.51          | 24.01         | 36.31  | 43.50         | -7.19         | Horizontal | QP     |
| 3    | 139.361     | 9.47            | 0.61          | 20.55         | 30.63  | 43.50         | -12.87        | Horizontal | QP     |
| 4    | 280.024     | 13.10           | 1.17          | 20.59         | 34.86  | 46.00         | -11.14        | Horizontal | QP     |
| 5 pp | 526.397     | 17.39           | 1.53          | 23.30         | 42.22  | 46.00         | -3.78         | Horizontal | QP     |
| 6    | 900.147     | 22.10           | 2.49          | 13.39         | 37.98  | 46.00         | -8.02         | Horizontal | QP     |

**Transmitter Emission above 1GHz**

| Test mode: 802.11b(11Mbps) |                       |                 | Test Frequency: 2412MHz |                   |                           | Remark: Peak   |                 |        |                 |
|----------------------------|-----------------------|-----------------|-------------------------|-------------------|---------------------------|----------------|-----------------|--------|-----------------|
| Frequency (MHz)            | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB)        | Read Level (dBμV) | Final test level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1260.670                   | 30.37                 | 1.95            | 44.30                   | 48.55             | 36.57                     | 74.00          | -37.43          | Pass   | Horizontal      |
| 1589.289                   | 31.04                 | 2.40            | 43.90                   | 47.75             | 37.29                     | 74.00          | -36.71          | Pass   | Horizontal      |
| 4824.000                   | 34.73                 | 6.02            | 44.60                   | 52.56             | 48.71                     | 74.00          | -25.29          | Pass   | Horizontal      |
| 5718.399                   | 35.69                 | 7.16            | 44.53                   | 47.53             | 45.85                     | 74.00          | -28.15          | Pass   | Horizontal      |
| 7236.000                   | 36.42                 | 6.94            | 44.80                   | 49.68             | 48.24                     | 74.00          | -25.76          | Pass   | Horizontal      |
| 9648.000                   | 37.93                 | 7.01            | 45.57                   | 48.62             | 47.99                     | 74.00          | -26.01          | Pass   | Horizontal      |
| 1232.117                   | 30.30                 | 1.91            | 44.34                   | 47.89             | 35.76                     | 74.00          | -38.24          | Pass   | Vertical        |
| 1533.648                   | 30.93                 | 2.33            | 43.96                   | 48.29             | 37.59                     | 74.00          | -36.41          | Pass   | Vertical        |
| 1823.477                   | 31.43                 | 2.66            | 43.66                   | 47.70             | 38.13                     | 74.00          | -35.87          | Pass   | Vertical        |
| 4824.000                   | 34.73                 | 6.02            | 44.60                   | 53.97             | 50.12                     | 74.00          | -23.88          | Pass   | Vertical        |
| 7236.000                   | 36.42                 | 6.94            | 44.80                   | 50.71             | 49.27                     | 74.00          | -24.73          | Pass   | Vertical        |
| 9648.000                   | 37.93                 | 7.01            | 45.57                   | 48.98             | 48.35                     | 74.00          | -25.65          | Pass   | Vertical        |

| Test mode: 802.11b(11Mbps) |                       |                 | Test Frequency: 2437MHz |                   |                           | Remark: Peak   |                 |        |                 |
|----------------------------|-----------------------|-----------------|-------------------------|-------------------|---------------------------|----------------|-----------------|--------|-----------------|
| Frequency (MHz)            | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB)        | Read Level (dBμV) | Final test level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1280.072                   | 30.41                 | 1.98            | 44.27                   | 48.60             | 36.72                     | 74.00          | -37.28          | Pass   | Horizontal      |
| 1537.557                   | 30.94                 | 2.34            | 43.96                   | 48.25             | 37.57                     | 74.00          | -36.43          | Pass   | Horizontal      |
| 4874.000                   | 34.84                 | 6.12            | 44.60                   | 52.50             | 48.86                     | 74.00          | -25.14          | Pass   | Horizontal      |
| 5850.919                   | 35.79                 | 7.29            | 44.51                   | 49.05             | 47.62                     | 74.00          | -26.38          | Pass   | Horizontal      |
| 7311.000                   | 36.43                 | 6.86            | 44.86                   | 50.48             | 48.91                     | 74.00          | -25.09          | Pass   | Horizontal      |
| 9748.000                   | 38.03                 | 7.10            | 45.55                   | 48.99             | 48.57                     | 74.00          | -25.43          | Pass   | Horizontal      |
| 1280.072                   | 30.41                 | 1.98            | 44.27                   | 48.81             | 36.93                     | 74.00          | -37.07          | Pass   | Vertical        |
| 1617.862                   | 31.09                 | 2.43            | 43.87                   | 48.03             | 37.68                     | 74.00          | -36.32          | Pass   | Vertical        |
| 4874.000                   | 34.84                 | 6.12            | 44.60                   | 54.29             | 50.65                     | 74.00          | -23.35          | Pass   | Vertical        |
| 6047.776                   | 35.93                 | 7.43            | 44.51                   | 48.57             | 47.42                     | 74.00          | -26.58          | Pass   | Vertical        |
| 7311.000                   | 36.43                 | 6.86            | 44.86                   | 51.18             | 49.61                     | 74.00          | -24.39          | Pass   | Vertical        |
| 9748.000                   | 38.03                 | 7.10            | 45.55                   | 48.15             | 47.73                     | 74.00          | -26.27          | Pass   | Vertical        |

| Test mode: 802.11b(11Mbps) |                       |                 | Test Frequency: 2462MHz |                   |                           | Remark: Peak   |                 |        |                 |
|----------------------------|-----------------------|-----------------|-------------------------|-------------------|---------------------------|----------------|-----------------|--------|-----------------|
| Frequency (MHz)            | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB)  | Read Level (dBμV) | Final test level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1167.982                   | 30.15                 | 1.81            | 44.43                   | 48.14             | 35.67                     | 74.00          | -38.33          | Pass   | Horizontal      |
| 1617.862                   | 31.09                 | 2.43            | 43.87                   | 48.46             | 38.11                     | 74.00          | -35.89          | Pass   | Horizontal      |
| 4924.000                   | 34.94                 | 6.22            | 44.60                   | 53.90             | 50.46                     | 74.00          | -23.54          | Pass   | Horizontal      |
| 6662.007                   | 36.24                 | 7.27            | 44.57                   | 48.33             | 47.27                     | 74.00          | -26.73          | Pass   | Horizontal      |
| 7386.000                   | 36.44                 | 6.78            | 44.92                   | 51.02             | 49.32                     | 74.00          | -24.68          | Pass   | Horizontal      |
| 9848.000                   | 38.14                 | 7.19            | 45.53                   | 49.11             | 48.91                     | 74.00          | -25.09          | Pass   | Horizontal      |
| 1176.935                   | 30.17                 | 1.82            | 44.42                   | 48.15             | 35.72                     | 74.00          | -38.28          | Pass   | Vertical        |
| 1533.648                   | 30.93                 | 2.33            | 43.96                   | 48.31             | 37.61                     | 74.00          | -36.39          | Pass   | Vertical        |
| 1809.605                   | 31.41                 | 2.65            | 43.67                   | 47.97             | 38.36                     | 74.00          | -35.64          | Pass   | Vertical        |
| 4924.000                   | 34.94                 | 6.22            | 44.60                   | 52.00             | 48.56                     | 74.00          | -25.44          | Pass   | Vertical        |
| 7386.000                   | 36.44                 | 6.78            | 44.92                   | 51.25             | 49.55                     | 74.00          | -24.45          | Pass   | Vertical        |
| 9848.000                   | 38.14                 | 7.19            | 45.53                   | 49.20             | 49.00                     | 74.00          | -25.00          | Pass   | Vertical        |

| Test mode: 802.11g(6Mbps) |                       |                 | Test Frequency: 2412MHz |                   |                           | Remark: Peak   |                 |        |                 |
|---------------------------|-----------------------|-----------------|-------------------------|-------------------|---------------------------|----------------|-----------------|--------|-----------------|
| Frequency (MHz)           | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB)  | Read Level (dBμV) | Final test level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1413.674                  | 30.70                 | 2.17            | 44.10                   | 48.08             | 36.85                     | 74.00          | -37.15          | Pass   | Horizontal      |
| 1759.638                  | 31.33                 | 2.59            | 43.72                   | 48.91             | 39.11                     | 74.00          | -34.89          | Pass   | Horizontal      |
| 4824.000                  | 34.73                 | 6.02            | 44.60                   | 49.54             | 45.69                     | 74.00          | -28.31          | Pass   | Horizontal      |
| 6047.776                  | 35.93                 | 7.43            | 44.51                   | 48.78             | 47.63                     | 74.00          | -26.37          | Pass   | Horizontal      |
| 7236.000                  | 36.42                 | 6.94            | 44.80                   | 49.40             | 47.96                     | 74.00          | -26.04          | Pass   | Horizontal      |
| 9648.000                  | 37.93                 | 7.01            | 45.57                   | 48.27             | 47.64                     | 74.00          | -26.36          | Pass   | Horizontal      |
| 1251.079                  | 30.35                 | 1.94            | 44.31                   | 48.54             | 36.52                     | 74.00          | -37.48          | Pass   | Vertical        |
| 1521.981                  | 30.91                 | 2.32            | 43.97                   | 48.94             | 38.20                     | 74.00          | -35.80          | Pass   | Vertical        |
| 4824.000                  | 34.73                 | 6.02            | 44.60                   | 50.73             | 46.88                     | 74.00          | -27.12          | Pass   | Vertical        |
| 6078.644                  | 35.94                 | 7.42            | 44.51                   | 48.85             | 47.70                     | 74.00          | -26.30          | Pass   | Vertical        |
| 7236.000                  | 36.42                 | 6.94            | 44.80                   | 50.58             | 49.14                     | 74.00          | -24.86          | Pass   | Vertical        |
| 9648.000                  | 37.93                 | 7.01            | 45.57                   | 47.96             | 47.33                     | 74.00          | -26.67          | Pass   | Vertical        |

| Test mode: 802.11g(6Mbps) |                       |                 | Test Frequency: 2437MHz |                   |                           | Remark: Peak   |                 |        |                 |
|---------------------------|-----------------------|-----------------|-------------------------|-------------------|---------------------------|----------------|-----------------|--------|-----------------|
| Frequency (MHz)           | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB)  | Read Level (dBμV) | Final test level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1316.422                  | 30.49                 | 2.04            | 44.22                   | 48.82             | 37.13                     | 74.00          | -36.87          | Pass   | Horizontal      |
| 1809.605                  | 31.41                 | 2.65            | 43.67                   | 48.38             | 38.77                     | 74.00          | -35.23          | Pass   | Horizontal      |
| 4874.000                  | 34.84                 | 6.12            | 44.60                   | 50.08             | 46.44                     | 74.00          | -27.56          | Pass   | Horizontal      |
| 6032.401                  | 35.92                 | 7.43            | 44.50                   | 48.43             | 47.28                     | 74.00          | -26.72          | Pass   | Horizontal      |
| 7311.000                  | 36.43                 | 6.86            | 44.86                   | 50.45             | 48.88                     | 74.00          | -25.12          | Pass   | Horizontal      |
| 9748.000                  | 38.03                 | 7.10            | 45.55                   | 47.82             | 47.40                     | 74.00          | -26.60          | Pass   | Horizontal      |
| 1273.572                  | 30.40                 | 1.97            | 44.28                   | 49.40             | 37.49                     | 74.00          | -36.51          | Pass   | Vertical        |
| 1805.005                  | 31.40                 | 2.64            | 43.68                   | 49.79             | 40.15                     | 74.00          | -33.85          | Pass   | Vertical        |
| 4874.000                  | 34.84                 | 6.12            | 44.60                   | 51.87             | 48.23                     | 74.00          | -25.77          | Pass   | Vertical        |
| 6017.064                  | 35.91                 | 7.44            | 44.50                   | 48.87             | 47.72                     | 74.00          | -26.28          | Pass   | Vertical        |
| 7311.000                  | 36.43                 | 6.86            | 44.86                   | 50.96             | 49.39                     | 74.00          | -24.61          | Pass   | Vertical        |
| 9748.000                  | 38.03                 | 7.10            | 45.55                   | 48.20             | 47.78                     | 74.00          | -26.22          | Pass   | Vertical        |

| Test mode: 802.11g(6Mbps) |                       |                 | Test Frequency: 2462MHz |                   |                           | Remark: Peak   |                 |        |                 |
|---------------------------|-----------------------|-----------------|-------------------------|-------------------|---------------------------|----------------|-----------------|--------|-----------------|
| Frequency (MHz)           | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB)  | Read Level (dBμV) | Final test level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1280.072                  | 30.41                 | 1.98            | 44.27                   | 48.72             | 36.84                     | 74.00          | -37.16          | Pass   | Horizontal      |
| 1545.405                  | 30.96                 | 2.35            | 43.95                   | 48.30             | 37.66                     | 74.00          | -36.34          | Pass   | Horizontal      |
| 1814.218                  | 31.42                 | 2.65            | 43.67                   | 48.22             | 38.62                     | 74.00          | -35.38          | Pass   | Horizontal      |
| 4924.000                  | 34.94                 | 6.22            | 44.60                   | 50.90             | 47.46                     | 74.00          | -26.54          | Pass   | Horizontal      |
| 7386.000                  | 36.44                 | 6.78            | 44.92                   | 51.78             | 50.08                     | 74.00          | -23.92          | Pass   | Horizontal      |
| 9848.000                  | 38.14                 | 7.19            | 45.53                   | 47.83             | 47.63                     | 74.00          | -26.37          | Pass   | Horizontal      |
| 1316.422                  | 30.49                 | 2.04            | 44.22                   | 48.60             | 36.91                     | 74.00          | -37.09          | Pass   | Vertical        |
| 1814.218                  | 31.42                 | 2.65            | 43.67                   | 48.42             | 38.82                     | 74.00          | -35.18          | Pass   | Vertical        |
| 4924.000                  | 34.94                 | 6.22            | 44.60                   | 52.14             | 48.70                     | 74.00          | -25.30          | Pass   | Vertical        |
| 6063.190                  | 35.93                 | 7.42            | 44.51                   | 48.96             | 47.80                     | 74.00          | -26.20          | Pass   | Vertical        |
| 7386.000                  | 36.44                 | 6.78            | 44.92                   | 52.06             | 50.36                     | 74.00          | -23.64          | Pass   | Vertical        |
| 9848.000                  | 38.14                 | 7.19            | 45.53                   | 48.03             | 47.83                     | 74.00          | -26.17          | Pass   | Vertical        |

| Test mode: 802.11n(HT20)(6.5Mbps) |                       |                 |                        | Test Frequency: 2412MHz |                           |                | Remark: Peak    |        |                 |
|-----------------------------------|-----------------------|-----------------|------------------------|-------------------------|---------------------------|----------------|-----------------|--------|-----------------|
| Frequency (MHz)                   | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV)       | Final test level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1138.626                          | 30.07                 | 1.76            | 44.48                  | 48.55                   | 35.90                     | 74.00          | -38.10          | Pass   | Horizontal      |
| 1557.252                          | 30.98                 | 2.36            | 43.93                  | 48.49                   | 37.90                     | 74.00          | -36.10          | Pass   | Horizontal      |
| 4824.000                          | 34.73                 | 6.02            | 44.60                  | 50.61                   | 46.76                     | 74.00          | -27.24          | Pass   | Horizontal      |
| 6662.007                          | 36.24                 | 7.27            | 44.57                  | 48.83                   | 47.77                     | 74.00          | -26.23          | Pass   | Horizontal      |
| 7236.000                          | 36.42                 | 6.94            | 44.80                  | 49.79                   | 48.35                     | 74.00          | -25.65          | Pass   | Horizontal      |
| 9648.000                          | 37.93                 | 7.01            | 45.57                  | 47.43                   | 46.80                     | 74.00          | -27.20          | Pass   | Horizontal      |
| 1235.257                          | 30.31                 | 1.92            | 44.33                  | 48.07                   | 35.97                     | 74.00          | -38.03          | Pass   | Vertical        |
| 1557.252                          | 30.98                 | 2.36            | 43.93                  | 48.12                   | 37.53                     | 74.00          | -36.47          | Pass   | Vertical        |
| 4824.000                          | 34.73                 | 6.02            | 44.60                  | 50.80                   | 46.95                     | 74.00          | -27.05          | Pass   | Vertical        |
| 5880.782                          | 35.81                 | 7.32            | 44.51                  | 49.12                   | 47.74                     | 74.00          | -26.26          | Pass   | Vertical        |
| 7236.000                          | 36.42                 | 6.94            | 44.80                  | 49.82                   | 48.38                     | 74.00          | -25.62          | Pass   | Vertical        |
| 9648.000                          | 37.93                 | 7.01            | 45.57                  | 47.84                   | 47.21                     | 74.00          | -26.79          | Pass   | Vertical        |

| Test mode: 802.11n(HT20)(6.5Mbps) |                       |                 |                        | Test Frequency: 2437MHz |                           |                | Remark: Peak    |        |                 |
|-----------------------------------|-----------------------|-----------------|------------------------|-------------------------|---------------------------|----------------|-----------------|--------|-----------------|
| Frequency (MHz)                   | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV)       | Final test level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1280.072                          | 30.41                 | 1.98            | 44.27                  | 48.25                   | 36.37                     | 74.00          | -37.63          | Pass   | Horizontal      |
| 1601.472                          | 31.06                 | 2.41            | 43.88                  | 48.67                   | 38.26                     | 74.00          | -35.74          | Pass   | Horizontal      |
| 4874.000                          | 34.84                 | 6.12            | 44.60                  | 50.45                   | 46.81                     | 74.00          | -27.19          | Pass   | Horizontal      |
| 6078.644                          | 35.94                 | 7.42            | 44.51                  | 48.23                   | 47.08                     | 74.00          | -26.92          | Pass   | Horizontal      |
| 7311.000                          | 36.43                 | 6.86            | 44.86                  | 48.69                   | 47.12                     | 74.00          | -26.88          | Pass   | Horizontal      |
| 9748.000                          | 38.03                 | 7.10            | 45.55                  | 48.15                   | 47.73                     | 74.00          | -26.27          | Pass   | Horizontal      |
| 1276.818                          | 30.41                 | 1.98            | 44.28                  | 48.31                   | 36.42                     | 74.00          | -37.58          | Pass   | Vertical        |
| 1638.585                          | 31.12                 | 2.46            | 43.85                  | 47.90                   | 37.63                     | 74.00          | -36.37          | Pass   | Vertical        |
| 4874.000                          | 34.84                 | 6.12            | 44.60                  | 50.55                   | 46.91                     | 74.00          | -27.09          | Pass   | Vertical        |
| 5850.919                          | 35.79                 | 7.29            | 44.51                  | 48.06                   | 46.63                     | 74.00          | -27.37          | Pass   | Vertical        |
| 7311.000                          | 36.43                 | 6.86            | 44.86                  | 50.67                   | 49.10                     | 74.00          | -24.90          | Pass   | Vertical        |
| 9748.000                          | 38.03                 | 7.10            | 45.55                  | 47.95                   | 47.53                     | 74.00          | -26.47          | Pass   | Vertical        |

| Test mode: 802.11n(HT20)(6.5Mbps) |                       |                 |                  | Test Frequency: 2462MHz |                           |                | Remark: Peak    |        |                 |
|-----------------------------------|-----------------------|-----------------|------------------|-------------------------|---------------------------|----------------|-----------------|--------|-----------------|
| Frequency (MHz)                   | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Read Level (dBμV)       | Final test level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1251.079                          | 30.35                 | 1.94            | 44.31            | 48.75                   | 36.73                     | 74.00          | -37.27          | Pass   | Horizontal      |
| 1805.005                          | 31.40                 | 2.64            | 43.68            | 48.13                   | 38.49                     | 74.00          | -35.51          | Pass   | Horizontal      |
| 4924.000                          | 34.94                 | 6.22            | 44.60            | 49.72                   | 46.28                     | 74.00          | -27.72          | Pass   | Horizontal      |
| 6078.644                          | 35.94                 | 7.42            | 44.51            | 48.65                   | 47.50                     | 74.00          | -26.50          | Pass   | Horizontal      |
| 7386.000                          | 36.44                 | 6.78            | 44.92            | 52.04                   | 50.34                     | 74.00          | -23.66          | Pass   | Horizontal      |
| 9848.000                          | 38.14                 | 7.19            | 45.53            | 46.43                   | 46.23                     | 74.00          | -27.77          | Pass   | Horizontal      |
| 1350.362                          | 30.57                 | 2.09            | 44.18            | 48.23                   | 36.71                     | 74.00          | -37.29          | Pass   | Vertical        |
| 1809.605                          | 31.41                 | 2.65            | 43.67            | 48.73                   | 39.12                     | 74.00          | -34.88          | Pass   | Vertical        |
| 4924.000                          | 34.94                 | 6.22            | 44.60            | 52.16                   | 48.72                     | 74.00          | -25.28          | Pass   | Vertical        |
| 6047.776                          | 35.93                 | 7.43            | 44.51            | 48.92                   | 47.77                     | 74.00          | -26.23          | Pass   | Vertical        |
| 7386.000                          | 36.44                 | 6.78            | 44.92            | 52.29                   | 50.59                     | 74.00          | -23.41          | Pass   | Vertical        |
| 9848.000                          | 38.14                 | 7.19            | 45.53            | 47.97                   | 47.77                     | 74.00          | -26.23          | Pass   | Vertical        |

| Test mode: 802.11n(HT40)(13.5Mbps) |                       |                 |                  | Test Frequency: 2422MHz |                           |                | Remark: Peak    |        |                 |
|------------------------------------|-----------------------|-----------------|------------------|-------------------------|---------------------------|----------------|-----------------|--------|-----------------|
| Frequency (MHz)                    | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Read Level (dBμV)       | Final test level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1238.405                           | 30.32                 | 1.92            | 44.33            | 48.12                   | 36.03                     | 74.00          | -37.97          | Pass   | Horizontal      |
| 1533.648                           | 30.93                 | 2.33            | 43.96            | 48.10                   | 37.40                     | 74.00          | -36.60          | Pass   | Horizontal      |
| 1800.416                           | 31.40                 | 2.64            | 43.68            | 48.18                   | 38.54                     | 74.00          | -35.46          | Pass   | Horizontal      |
| 4844.000                           | 34.77                 | 6.06            | 44.60            | 48.77                   | 45.00                     | 74.00          | -29.00          | Pass   | Horizontal      |
| 7266.000                           | 36.43                 | 6.91            | 44.82            | 48.26                   | 46.78                     | 74.00          | -27.22          | Pass   | Horizontal      |
| 9688.000                           | 37.97                 | 7.05            | 45.56            | 48.60                   | 48.06                     | 74.00          | -25.94          | Pass   | Horizontal      |
| 1219.635                           | 30.27                 | 1.89            | 44.36            | 47.99                   | 35.79                     | 74.00          | -38.21          | Pass   | Vertical        |
| 1402.920                           | 30.68                 | 2.16            | 44.11            | 49.45                   | 38.18                     | 74.00          | -35.82          | Pass   | Vertical        |
| 4844.000                           | 34.77                 | 6.06            | 44.60            | 50.15                   | 46.38                     | 74.00          | -27.62          | Pass   | Vertical        |
| 5880.782                           | 35.81                 | 7.32            | 44.51            | 48.34                   | 46.96                     | 74.00          | -27.04          | Pass   | Vertical        |
| 7266.000                           | 36.43                 | 6.91            | 44.82            | 49.41                   | 47.93                     | 74.00          | -26.07          | Pass   | Vertical        |
| 9688.000                           | 37.97                 | 7.05            | 45.56            | 46.77                   | 46.23                     | 74.00          | -27.77          | Pass   | Vertical        |

| Test mode: 802.11n(HT20)(13.5Mbps) |                       |                 | Test Frequency: 2437MHz |                   |                           | Remark: Peak   |                 |        |                 |
|------------------------------------|-----------------------|-----------------|-------------------------|-------------------|---------------------------|----------------|-----------------|--------|-----------------|
| Frequency (MHz)                    | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB)        | Read Level (dBμV) | Final test level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1173.943                           | 30.16                 | 1.82            | 44.42                   | 49.21             | 36.77                     | 74.00          | -37.23          | Pass   | Horizontal      |
| 1510.402                           | 30.89                 | 2.30            | 43.99                   | 48.26             | 37.46                     | 74.00          | -36.54          | Pass   | Horizontal      |
| 4874.000                           | 34.84                 | 6.12            | 44.60                   | 50.31             | 46.67                     | 74.00          | -27.33          | Pass   | Horizontal      |
| 6251.257                           | 36.03                 | 7.37            | 44.53                   | 48.69             | 47.56                     | 74.00          | -26.44          | Pass   | Horizontal      |
| 7311.000                           | 36.43                 | 6.86            | 44.86                   | 49.06             | 47.49                     | 74.00          | -26.51          | Pass   | Horizontal      |
| 9748.000                           | 38.03                 | 7.10            | 45.55                   | 47.36             | 46.94                     | 74.00          | -27.06          | Pass   | Horizontal      |
| 1276.818                           | 30.41                 | 1.98            | 44.28                   | 48.37             | 36.48                     | 74.00          | -37.52          | Pass   | Vertical        |
| 1573.189                           | 31.01                 | 2.38            | 43.92                   | 48.07             | 37.54                     | 74.00          | -36.46          | Pass   | Vertical        |
| 4874.000                           | 34.84                 | 6.12            | 44.60                   | 48.81             | 45.17                     | 74.00          | -28.83          | Pass   | Vertical        |
| 6063.190                           | 35.93                 | 7.42            | 44.51                   | 49.00             | 47.84                     | 74.00          | -26.16          | Pass   | Vertical        |
| 7311.000                           | 36.43                 | 6.86            | 44.86                   | 49.79             | 48.22                     | 74.00          | -25.78          | Pass   | Vertical        |
| 9748.000                           | 38.03                 | 7.10            | 45.55                   | 46.82             | 46.40                     | 74.00          | -27.60          | Pass   | Vertical        |

| Test mode: 802.11n(HT20)(13.5Mbps) |                       |                 | Test Frequency: 2452MHz |                   |                           | Remark: Peak   |                 |        |                 |
|------------------------------------|-----------------------|-----------------|-------------------------|-------------------|---------------------------|----------------|-----------------|--------|-----------------|
| Frequency (MHz)                    | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB)  | Read Level (dBμV) | Final test level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1276.818                           | 30.41                 | 1.98            | 44.28                   | 48.22             | 36.33                     | 74.00          | -37.67          | Pass   | Horizontal      |
| 1597.401                           | 31.05                 | 2.41            | 43.89                   | 48.31             | 37.88                     | 74.00          | -36.12          | Pass   | Horizontal      |
| 4904.000                           | 34.90                 | 6.18            | 44.60                   | 46.80             | 43.28                     | 74.00          | -30.72          | Pass   | Horizontal      |
| 6283.164                           | 36.05                 | 7.37            | 44.53                   | 48.74             | 47.63                     | 74.00          | -26.37          | Pass   | Horizontal      |
| 7356.000                           | 36.44                 | 6.81            | 44.90                   | 47.32             | 45.67                     | 74.00          | -28.33          | Pass   | Horizontal      |
| 9808.000                           | 38.10                 | 7.16            | 45.54                   | 47.13             | 46.85                     | 74.00          | -27.15          | Pass   | Horizontal      |
| 1216.534                           | 30.27                 | 1.89            | 44.36                   | 49.03             | 36.83                     | 74.00          | -37.17          | Pass   | Vertical        |
| 1621.985                           | 31.10                 | 2.44            | 43.86                   | 47.69             | 37.37                     | 74.00          | -36.63          | Pass   | Vertical        |
| 4904.000                           | 34.90                 | 6.18            | 44.60                   | 49.84             | 46.32                     | 74.00          | -27.68          | Pass   | Vertical        |
| 6109.670                           | 35.96                 | 7.41            | 44.51                   | 48.57             | 47.43                     | 74.00          | -26.57          | Pass   | Vertical        |
| 7356.000                           | 36.44                 | 6.81            | 44.90                   | 49.12             | 47.47                     | 74.00          | -26.53          | Pass   | Vertical        |
| 9808.000                           | 38.10                 | 7.16            | 45.54                   | 48.29             | 48.01                     | 74.00          | -25.99          | Pass   | Vertical        |

Note:

1) Through Pre-scan transmitting mode and charge+transmitter mode with all kind of modulation and data rate, find the 11Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40), and then Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

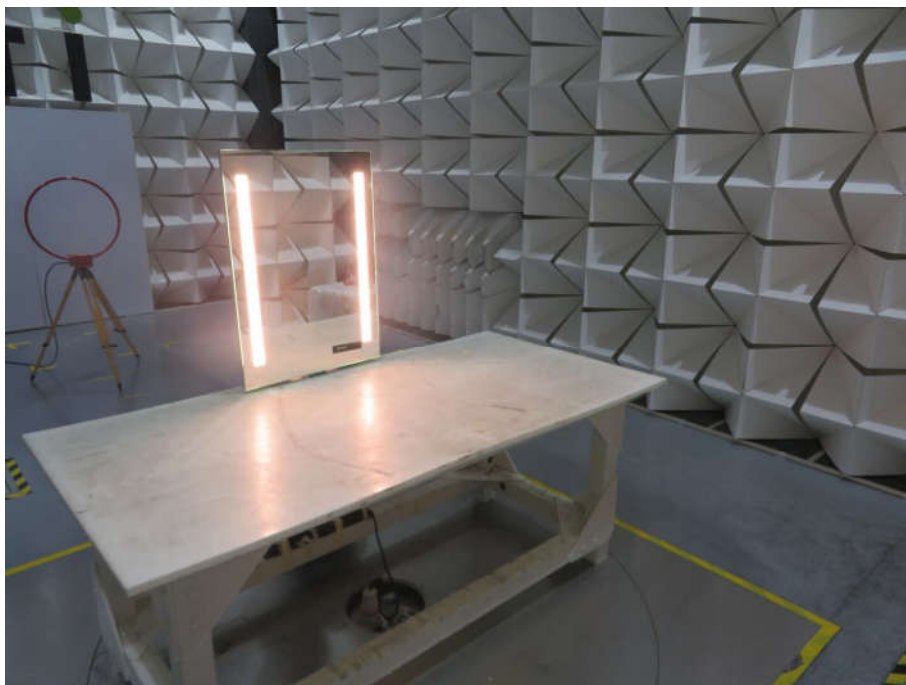
Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

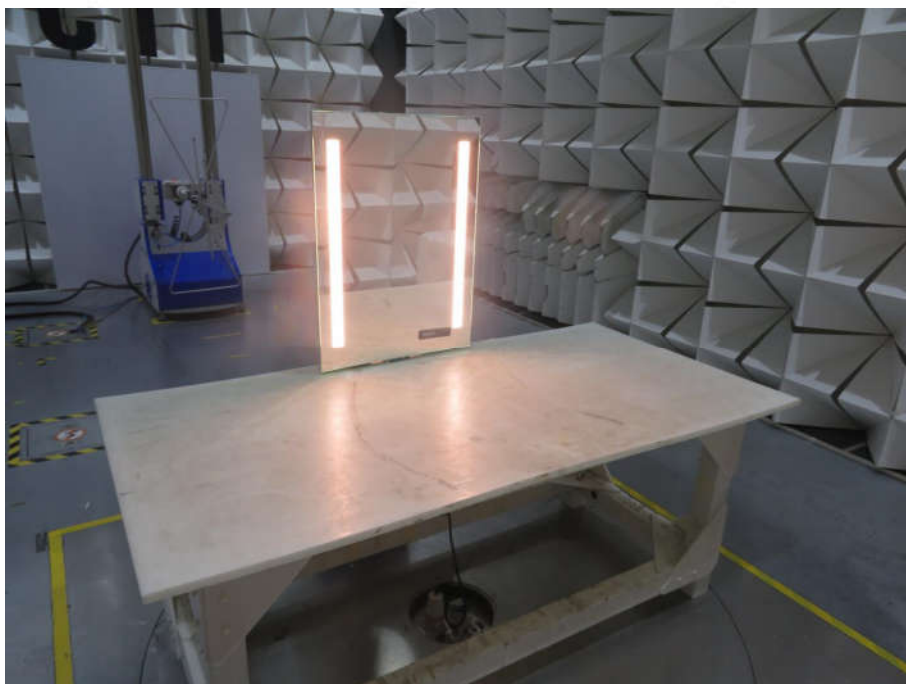
3) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

## PHOTOGRAPHS OF TEST SETUP

Test model No.: 99571-VLAN-NA



Radiated spurious emission Test Setup-1(Below 30MHz)



Radiated emission Test Setup-2(30MHz-1GHz)



Radiated spurious emission Test Setup-3(Above 1GHz)



Conducted Emissions Test Setup

## PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32K00040201 for EUT external and internal photos.

\*\*\* End of Report \*\*\*

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.