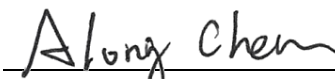


# FCC Test Report

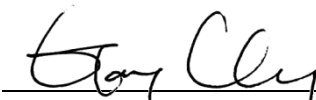
**FCC ID** : 2AN9V-CY889  
**Equipment** : DIALOG  
**Model No.** : CY889  
**Brand Name** : DEVIALET  
**Applicant** : DEVIALET  
**Address** : 10 Place Vendome, PARIS, France, 75001  
**Standard** : 47 CFR FCC Part 15.247  
**Received Date** : Jan. 31, 2018  
**Tested Date** : Feb. 06 ~ Jul. 31, 2018

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

  
Along Chen / Assistant Manager

Approved by:

  
Gary Chang / Manager



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## Release Record

| Report No. | Version | Description   | Issued Date   |
|------------|---------|---------------|---------------|
| FR813101AC | Rev. 01 | Initial issue | Dec. 21, 2018 |

## Summary of Test Results

| FCC Rules           | Test Items             | Measured                                                   | Result |
|---------------------|------------------------|------------------------------------------------------------|--------|
| 15.207              | Conducted Emissions    | [dBuV]: 1.320MHz<br>26.73 (Margin -19.27dB) - AV           | Pass   |
| 15.247(d)<br>15.209 | Radiated Emissions     | [dBuV/m at 3m]: 12185.00MHz<br>53.49 (Margin -0.51dB) - AV | Pass   |
| 15.247(b)(3)        | Maximum Output Power   | Max Power [dBm]: 25.17                                     | Pass   |
| 15.247(a)(2)        | 6dB Bandwidth          | Meet the requirement of limit                              | Pass   |
| 15.247(e)           | Power Spectral Density | Meet the requirement of limit                              | Pass   |
| 15.203              | Antenna Requirement    | Meet the requirement of limit                              | Pass   |

# 1 General Description

## 1.1 Information

### 1.1.1 Specification of the Equipment under Test (EUT)

| RF General Information |                  |                 |                |                                    |                 |
|------------------------|------------------|-----------------|----------------|------------------------------------|-----------------|
| Frequency Range (MHz)  | IEEE Std. 802.11 | Ch. Freq. (MHz) | Channel Number | Transmit Chains (N <sub>TX</sub> ) | Data Rate / MCS |
| 2400-2483.5            | b                | 2412-2462       | 1-11 [11]      | 2                                  | 1-11 Mbps       |
| 2400-2483.5            | g                | 2412-2462       | 1-11 [11]      | 2                                  | 6-54 Mbps       |
| 2400-2483.5            | n (HT20)         | 2412-2462       | 1-11 [11]      | 2                                  | MCS 0-15        |
| 2400-2483.5            | n (HT40)         | 2422-2452       | 3-9 [7]        | 2                                  | MCS 0-15        |
| 2400-2483.5            | ac (VHT20)       | 2412-2462       | 1-11 [11]      | 2                                  | MCS 0-9         |
| 2400-2483.5            | ac (VHT40)       | 2422-2452       | 3-9 [7]        | 2                                  | MCS 0-9         |

Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.  
 Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.  
 Note 3: 802.11g/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

### 1.1.2 Antenna Details

| Ant. No. | Model | Type | Connector | Operating Frequency (MHz) / Gain (dBi) |           |           |
|----------|-------|------|-----------|----------------------------------------|-----------|-----------|
|          |       |      |           | 2400~2483.5                            | 5150~5250 | 5725~5850 |
| 1        | Ant 1 | PIFA | UFL       | 1.65                                   | 4.16      | 3.53      |
| 2        | Ant 2 | PIFA | UFL       | 2.2                                    | 3.85      | 5.95      |

### 1.1.3 Power Supply Type of Equipment under Test (EUT)

|                   |            |
|-------------------|------------|
| Power Supply Type | 100~240Vac |
|-------------------|------------|

### 1.1.4 Accessories

| Accessories |                    |                                 |
|-------------|--------------------|---------------------------------|
| No.         | Equipment          | Description                     |
| 1           | RJ45 cable         | 0.9m shielded without core.     |
| 2           | Power cord (White) | 1.4m non-shielded without core. |

### 1.1.5 Channel List

| Frequency band (MHz)             |                | 2400~2483.5             |                |
|----------------------------------|----------------|-------------------------|----------------|
| 802.11 b / g / n HT20 / ac VHT20 |                | 802.11n HT40 / ac VHT40 |                |
| Channel                          | Frequency(MHz) | Channel                 | Frequency(MHz) |
| 1                                | 2412           | 3                       | 2422           |
| 2                                | 2417           | 4                       | 2427           |
| 3                                | 2422           | 5                       | 2432           |
| 4                                | 2427           | 6                       | 2437           |
| 5                                | 2432           | 7                       | 2442           |
| 6                                | 2437           | 8                       | 2447           |
| 7                                | 2442           | 9                       | 2452           |
| 8                                | 2447           | ---                     | ---            |
| 9                                | 2452           | ---                     | ---            |
| 10                               | 2457           | ---                     | ---            |
| 11                               | 2462           | ---                     | ---            |

### 1.1.6 Test Tool and Duty Cycle

| Test Tool                  | QCART, V3.0.187.0 |                |                  |
|----------------------------|-------------------|----------------|------------------|
| Duty Cycle and Duty Factor | Mode              | Duty cycle (%) | Duty factor (dB) |
|                            | 11b               | 100.00%        | 0.00             |
|                            | 11g               | 96.58%         | 0.15             |
|                            | HT20              | 98.91%         | 0.05             |
|                            | HT40              | 97.33%         | 0.12             |
|                            | VHT20             | 98.98%         | 0.04             |
|                            | VHT40             | 97.50%         | 0.11             |

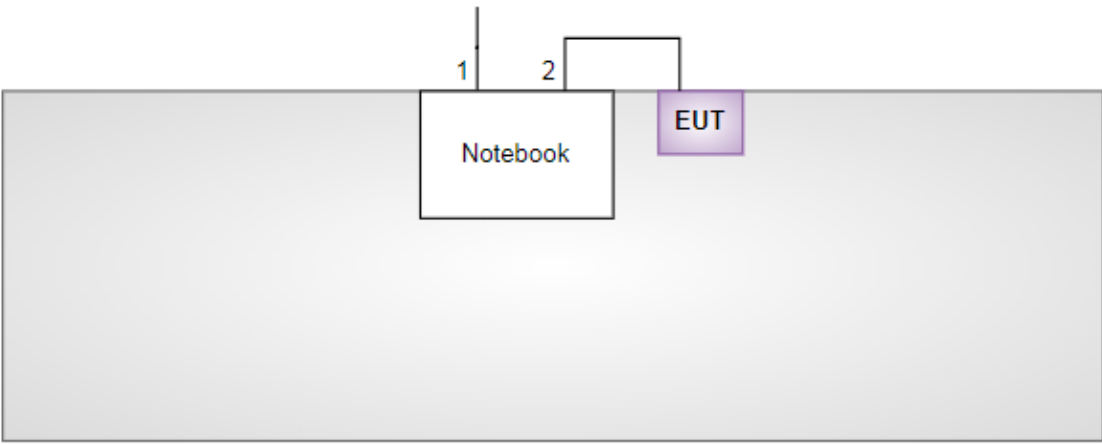
### 1.1.7 Power Setting

| Modulation Mode | Test Frequency (MHz) | Power Set |
|-----------------|----------------------|-----------|
| 11b             | 2412                 | 21.5      |
| 11b             | 2437                 | 22.5      |
| 11b             | 2462                 | 20        |
| 11g             | 2412                 | 19        |
| 11g             | 2437                 | 21.5      |
| 11g             | 2462                 | 18        |
| HT20            | 2412                 | 18        |
| HT20            | 2437                 | 21.5      |
| HT20            | 2462                 | 18        |
| HT40            | 2422                 | 16        |
| HT40            | 2437                 | 19        |
| HT40            | 2452                 | 17        |
| VHT20           | 2412                 | 18        |
| VHT20           | 2437                 | 21.5      |
| VHT20           | 2462                 | 18        |
| VHT40           | 2422                 | 16        |
| VHT40           | 2437                 | 19        |
| VHT40           | 2452                 | 17        |

## 1.2 Local Support Equipment List

| Support Equipment List |           |       |                |        |         |
|------------------------|-----------|-------|----------------|--------|---------|
| No.                    | Equipment | Brand | Model          | FCC ID | Remarks |
| 1                      | Notebook  | DELL  | Latitude E5470 | DoC    | ---     |

## 1.3 Test Setup Chart

| Test Setup Diagram                                                                                                                                                                                                                                                                                                                                                                                                   |                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|  <p>The diagram shows a large gray rectangular area representing the test chamber. Inside, a white box labeled 'Notebook' is connected to a purple box labeled 'EUT'. Two signal cables are indicated: Cable 1 (a power cord) connects the Notebook to the EUT, and Cable 2 (an RJ45 cable) connects the Notebook to the EUT.</p> |                                |
| No.                                                                                                                                                                                                                                                                                                                                                                                                                  | Signal cable / Length (m)      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                    | Power cord, 1.4m non-shielded. |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                    | RJ45, 0.9m shielded.           |

## 1.4 The Equipment List

|                                                                     |                               |                      |                   |                         |                          |
|---------------------------------------------------------------------|-------------------------------|----------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Conducted Emission            |                      |                   |                         |                          |
| <b>Test Site</b>                                                    | Conduction room 1 / (CO01-WS) |                      |                   |                         |                          |
| <b>Tested Date</b>                                                  | Jul. 30, 2018                 |                      |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b>           | <b>Model No.</b>     | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Receiver                                                            | R&S                           | ESR3                 | 101657            | Jan. 05, 2018           | Jan. 04, 2019            |
| LISN                                                                | SCHWARZBECK                   | Schwarzbeck 8127     | 8127-667          | Nov. 13, 2017           | Nov. 12, 2018            |
| LISN<br>(Support Unit)                                              | SCHWARZBECK                   | Schwarzbeck 8127     | 8127-666          | Nov. 24, 2017           | Nov. 23, 2018            |
| RF Cable-CON                                                        | EMC                           | EMCCFD300-BM-BM-6000 | 50821             | Dec. 18, 2017           | Dec. 17, 2018            |
| 50 ohm terminal<br>(Support Unit)                                   | NA                            | 50                   | 04                | May 22, 2018            | May 21, 2019             |
| Measurement<br>Software                                             | AUDIX                         | e3                   | 6.120210k         | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                               |                      |                   |                         |                          |

|                                                                     |                              |                          |                   |                         |                          |
|---------------------------------------------------------------------|------------------------------|--------------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Radiated Emission below 1GHz |                          |                   |                         |                          |
| <b>Test Site</b>                                                    | 966 chamber1 / (03CH01-WS)   |                          |                   |                         |                          |
| <b>Tested Date</b>                                                  | Jul. 20 ~ Jul. 27, 2018      |                          |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b>          | <b>Model No.</b>         | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer                                                   | R&S                          | FSV40                    | 101498            | Dec. 04, 2017           | Dec. 03, 2018            |
| Receiver                                                            | R&S                          | ESR3                     | 101658            | Nov. 20, 2017           | Nov. 19, 2018            |
| Bilog Antenna                                                       | SCHWARZBECK                  | VULB9168                 | VULB9168-523      | Nov. 10, 2017           | Nov. 09, 2018            |
| Horn Antenna<br>1G-18G                                              | SCHWARZBECK                  | BBHA 9120 D              | BBHA 9120 D 1096  | Dec. 20, 2017           | Dec. 19, 2018            |
| Horn Antenna<br>18G-40G                                             | SCHWARZBECK                  | BBHA 9170                | BBHA 9170517      | Nov. 23, 2017           | Nov. 22, 2018            |
| Loop Antenna                                                        | R&S                          | HFH2-Z2                  | 100330            | Nov. 13, 2017           | Nov. 12, 2018            |
| Loop Antenna Cable                                                  | KOAX KABEL                   | 101354-BW                | 101354-BW         | Dec. 07, 2017           | Dec. 06, 2018            |
| Preamplifier                                                        | EMC                          | EMC02325                 | 980225            | Jul. 28, 2017           | Jul. 27, 2018            |
| Preamplifier                                                        | Agilent                      | 83017A                   | MY39501308        | Oct. 06, 2017           | Oct. 05, 2018            |
| Preamplifier                                                        | EMC                          | EMC184045B               | 980192            | Aug. 22, 2017           | Aug. 21, 2018            |
| RF Cable                                                            | HUBER+SUHNER                 | SUCOFLEX104              | MY16140/4         | May. 09, 2018           | May. 08, 2019            |
| RF Cable                                                            | HUBER+SUHNER                 | SUCOFLEX104              | MY16019/4         | Dec. 07, 2017           | Dec. 06, 2018            |
| RF Cable                                                            | HUBER+SUHNER                 | SUCOFLEX104              | MY16139/4         | Dec. 07, 2017           | Dec. 06, 2018            |
| LF cable 1M                                                         | EMC                          | EMCCFD400-NM-N<br>M-1000 | 16052             | Dec. 07, 2017           | Dec. 06, 2018            |
| LF cable 3M                                                         | Woken                        | CFD400NL-LW              | CFD400NL-001      | Dec. 07, 2017           | Dec. 06, 2018            |
| LF cable 10M                                                        | Woken                        | CFD400NL-LW              | CFD400NL-002      | Dec. 07, 2017           | Dec. 06, 2018            |
| Measurement<br>Software                                             | AUDIX                        | e3                       | 6.120210g         | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                              |                          |                   |                         |                          |

|                                                                     |                              |                          |                   |                         |                          |
|---------------------------------------------------------------------|------------------------------|--------------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Radiated Emission above 1GHz |                          |                   |                         |                          |
| <b>Test Site</b>                                                    | 966 chamber1 / (03CH01-WS)   |                          |                   |                         |                          |
| <b>Tested Date</b>                                                  | Feb. 06, 2018                |                          |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b>          | <b>Model No.</b>         | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer                                                   | R&S                          | FSV40                    | 101498            | Dec. 04, 2017           | Dec. 03, 2018            |
| Receiver                                                            | R&S                          | ESR3                     | 101658            | Nov. 20, 2017           | Nov. 19, 2018            |
| Bilog Antenna                                                       | SCHWARZBECK                  | VULB9168                 | VULB9168-522      | Jul. 25, 2017           | Jul. 24, 2018            |
| Horn Antenna<br>1G-18G                                              | SCHWARZBECK                  | BBHA 9120 D              | BBHA 9120 D 1096  | Dec. 20, 2017           | Dec. 19, 2018            |
| Horn Antenna<br>18G-40G                                             | SCHWARZBECK                  | BBHA 9170                | BBHA 9170517      | Nov. 23, 2017           | Nov. 22, 2018            |
| Loop Antenna                                                        | R&S                          | HFH2-Z2                  | 100330            | Nov. 13, 2017           | Nov. 12, 2018            |
| Loop Antenna Cable                                                  | KOAX KABEL                   | 101354-BW                | 101354-BW         | Dec. 07, 2017           | Dec. 06, 2018            |
| Preamplifier                                                        | EMC                          | EMC02325                 | 980225            | Jul. 28, 2017           | Jul. 27, 2018            |
| Preamplifier                                                        | Agilent                      | 83017A                   | MY39501308        | Oct. 06, 2017           | Oct. 05, 2018            |
| Preamplifier                                                        | EMC                          | EMC184045B               | 980192            | Aug. 22, 2017           | Aug. 21, 2018            |
| RF Cable                                                            | HUBER+SUHNER                 | SUCOFLEX104              | MY16014/4         | Dec. 07, 2017           | Dec. 06, 2018            |
| RF Cable                                                            | HUBER+SUHNER                 | SUCOFLEX104              | MY16019/4         | Dec. 07, 2017           | Dec. 06, 2018            |
| RF Cable                                                            | HUBER+SUHNER                 | SUCOFLEX104              | MY16139/4         | Dec. 07, 2017           | Dec. 06, 2018            |
| LF cable 1M                                                         | EMC                          | EMCCFD400-NM-N<br>M-1000 | 16052             | Dec. 07, 2017           | Dec. 06, 2018            |
| LF cable 3M                                                         | Woken                        | CFD400NL-LW              | CFD400NL-001      | Dec. 07, 2017           | Dec. 06, 2018            |
| LF cable 10M                                                        | Woken                        | CFD400NL-LW              | CFD400NL-002      | Dec. 07, 2017           | Dec. 06, 2018            |
| Measurement<br>Software                                             | AUDIX                        | e3                       | 6.120210g         | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                              |                          |                   |                         |                          |

|                                                                     |                         |                  |                   |                         |                          |
|---------------------------------------------------------------------|-------------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | RF Conducted            |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | (TH01-WS)               |                  |                   |                         |                          |
| <b>Tested Date</b>                                                  | Jul. 27 ~ Jul. 31, 2018 |                  |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b>     | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer                                                   | R&S                     | FSV40            | 101063            | Apr. 16, 2018           | Apr. 15, 2019            |
| Power Meter                                                         | Anritsu                 | ML2495A          | 1241002           | Oct. 16, 2017           | Oct. 15, 2018            |
| Power Sensor                                                        | Anritsu                 | MA2411B          | 1207366           | Oct. 16, 2017           | Oct. 15, 2018            |
| Measurement<br>Software                                             | Sporton                 | Sporton_1        | 1.3.30            | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                         |                  |                   |                         |                          |

## 1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2013

FCC KDB 558074 D01 15.247 Meas Guidance v05

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

## 1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Measurement Uncertainty  |             |
|--------------------------|-------------|
| Parameters               | Uncertainty |
| Bandwidth                | ±34.134 Hz  |
| Conducted power          | ±0.808 dB   |
| Power density            | ±0.463 dB   |
| Conducted emission       | ±2.670 dB   |
| AC conducted emission    | ±2.90 dB    |
| Radiated emission ≤ 1GHz | ±3.66 dB    |
| Radiated emission > 1GHz | ±5.37 dB    |

## 2 Test Configuration

### 2.1 Testing Condition

| Test Item          | Test Site | Ambient Condition | Tested By              |
|--------------------|-----------|-------------------|------------------------|
| AC Conduction      | CO01-WS   | 23°C / 55%        | Alex Tsai              |
| Radiated Emissions | 03CH01-WS | 23-24°C / 65-66%  | Akun Chung<br>Roger Lu |
| RF Conducted       | TH01-WS   | 21°C / 63%        | Brad Wu                |

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- IC site registration No.: 10807A-1

### 2.2 The Worst Test Modes and Channel Details

| Test item                | Modulation Mode | Test Frequency (MHz) | Data Rate (Mbps) / MCS | Test Configuration |
|--------------------------|-----------------|----------------------|------------------------|--------------------|
| Conducted Emissions      | 11b             | 2437                 | 1 Mbps                 | ---                |
| Radiated Emissions ≤1GHz | 11b             | 2437                 | 1 Mbps                 | ---                |
| Maximum Output Power     | 11b             | 2412 / 2437 / 2462   | 1 Mbps                 | ---                |
|                          | 11g             | 2412 / 2437 / 2462   | 6 Mbps                 |                    |
|                          | HT20            | 2412 / 2437 / 2462   | MCS 0                  |                    |
|                          | HT40            | 2422 / 2437 / 2452   | MCS 0                  |                    |
|                          | VHT20           | 2412 / 2437 / 2462   | MCS 0                  |                    |
|                          | VHT40           | 2422 / 2437 / 2452   | MCS 0                  |                    |
| Radiated Emissions >1GHz | 11b             | 2412 / 2437 / 2462   | 1 Mbps                 | ---                |
| 6dB bandwidth            | 11g             | 2412 / 2437 / 2462   | 6 Mbps                 |                    |
| Power spectral density   | VHT20           | 2412 / 2437 / 2462   | MCS 0                  |                    |
|                          | VHT40           | 2422 / 2437 / 2452   | MCS 0                  |                    |

**NOTE:** The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.

### 3 Transmitter Test Results

#### 3.1 Conducted Emissions

##### 3.1.1 Limit of Conducted Emissions

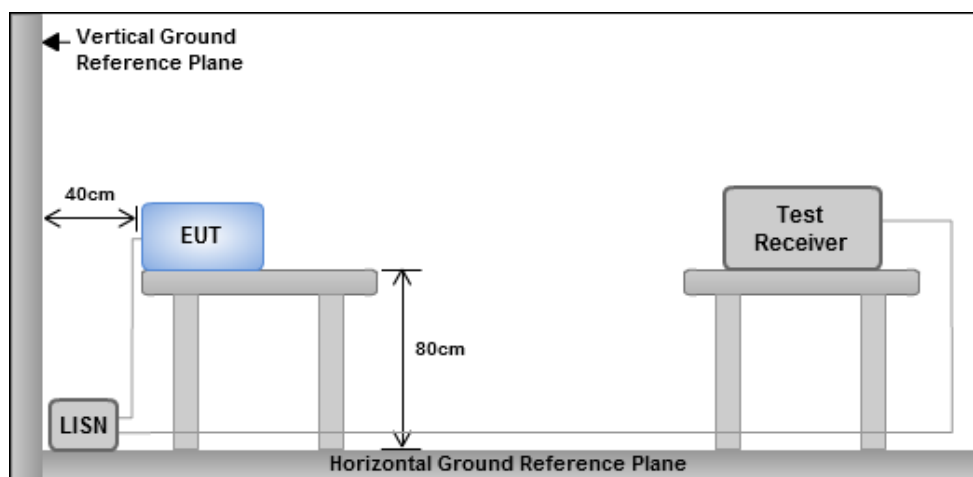
| Conducted Emissions Limit |            |           |
|---------------------------|------------|-----------|
| Frequency Emission (MHz)  | Quasi-Peak | Average   |
| 0.15-0.5                  | 66 - 56 *  | 56 - 46 * |
| 0.5-5                     | 56         | 46        |
| 5-30                      | 60         | 50        |

Note 1: \* Decreases with the logarithm of the frequency.

##### 3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50  $\Omega$  LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

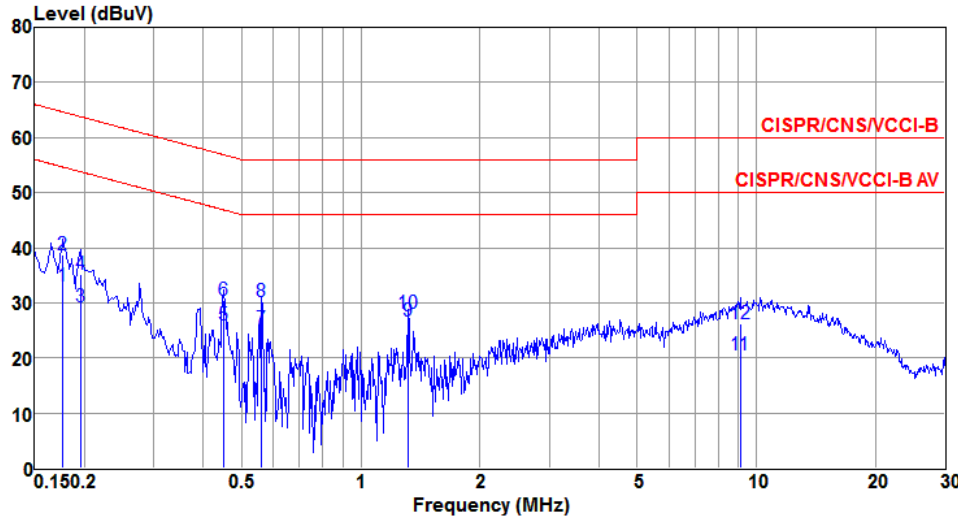
##### 3.1.3 Test Setup



- Note: 1. Support units were connected to second LISN.  
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.4 Test Result of Conducted Emissions

|             |      |                  |      |
|-------------|------|------------------|------|
| Modulation  | 11b  | Test Freq. (MHz) | 2437 |
| Power Phase | Line |                  |      |



| Freq | Level | Limit | Over  | Read   | LISN   | cable |        |         |
|------|-------|-------|-------|--------|--------|-------|--------|---------|
| MHz  | dBuV  | Line  | Limit | Level  | factor | loss  | Remark |         |
|      |       | dBuV  | dB    | dBuV   | dB     | dB    |        |         |
| 1    | 0.177 | 33.11 | 54.64 | -21.53 | 32.81  | 0.28  | 0.02   | Average |
| 2    | 0.177 | 38.70 | 64.64 | -25.94 | 38.40  | 0.28  | 0.02   | QP      |
| 3    | 0.195 | 29.20 | 53.80 | -24.60 | 28.88  | 0.29  | 0.03   | Average |
| 4    | 0.195 | 35.07 | 63.80 | -28.73 | 34.75  | 0.29  | 0.03   | QP      |
| 5    | 0.449 | 26.05 | 46.89 | -20.84 | 25.68  | 0.35  | 0.02   | Average |
| 6    | 0.449 | 30.52 | 56.89 | -26.37 | 30.15  | 0.35  | 0.02   | QP      |
| 7    | 0.561 | 25.22 | 46.00 | -20.78 | 24.84  | 0.36  | 0.02   | Average |
| 8    | 0.561 | 30.17 | 56.00 | -25.83 | 29.79  | 0.36  | 0.02   | QP      |
| 9    | 1.320 | 26.73 | 46.00 | -19.27 | 26.26  | 0.41  | 0.06   | Average |
| 10   | 1.320 | 28.17 | 56.00 | -27.83 | 27.70  | 0.41  | 0.06   | QP      |
| 11   | 9.107 | 20.62 | 50.00 | -29.38 | 19.75  | 0.56  | 0.31   | Average |
| 12   | 9.107 | 26.26 | 60.00 | -33.74 | 25.39  | 0.56  | 0.31   | QP      |

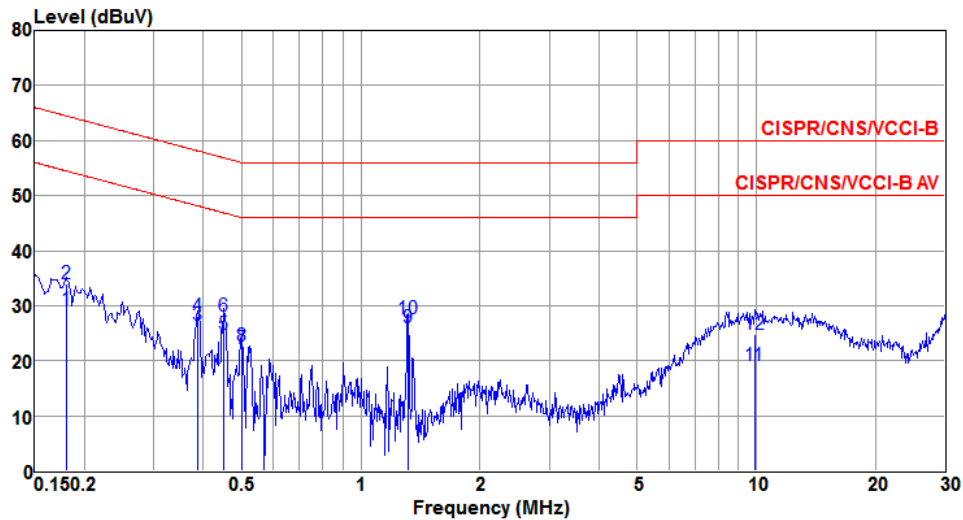
Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).

2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).

2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

|             |         |                  |      |
|-------------|---------|------------------|------|
| Modulation  | 11b     | Test Freq. (MHz) | 2437 |
| Power Phase | Neutral |                  |      |



|    | Freq<br>MHz | Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1  | 0.180       | 29.30         | 54.50                 | -25.20              | 29.13                 | 0.15                 | 0.02                | Average |
| 2  | 0.180       | 34.06         | 64.50                 | -30.44              | 33.89                 | 0.15                 | 0.02                | QP      |
| 3  | 0.387       | 26.46         | 48.12                 | -21.66              | 26.25                 | 0.19                 | 0.02                | Average |
| 4  | 0.387       | 28.11         | 58.12                 | -30.01              | 27.90                 | 0.19                 | 0.02                | QP      |
| 5  | 0.449       | 24.86         | 46.89                 | -22.03              | 24.64                 | 0.20                 | 0.02                | Average |
| 6  | 0.449       | 27.99         | 56.89                 | -28.90              | 27.77                 | 0.20                 | 0.02                | QP      |
| 7  | 0.502       | 22.26         | 46.00                 | -23.74              | 22.03                 | 0.21                 | 0.02                | Average |
| 8  | 0.502       | 22.76         | 56.00                 | -33.24              | 22.53                 | 0.21                 | 0.02                | QP      |
| 9@ | 1.317       | 26.05         | 46.00                 | -19.95              | 25.71                 | 0.28                 | 0.06                | Average |
| 10 | 1.317       | 27.72         | 56.00                 | -28.28              | 27.38                 | 0.28                 | 0.06                | QP      |
| 11 | 9.913       | 19.11         | 50.00                 | -30.89              | 18.33                 | 0.46                 | 0.32                | Average |
| 12 | 9.913       | 24.85         | 60.00                 | -35.15              | 24.07                 | 0.46                 | 0.32                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

## 3.2 6dB and Occupied Bandwidth

### 3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

### 3.2.2 Test Procedures

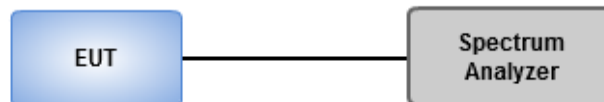
#### 6dB Bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

#### Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

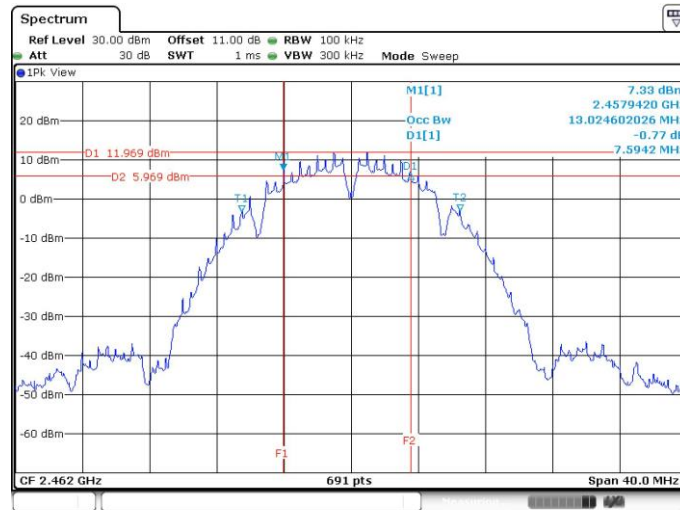
### 3.2.3 Test Setup



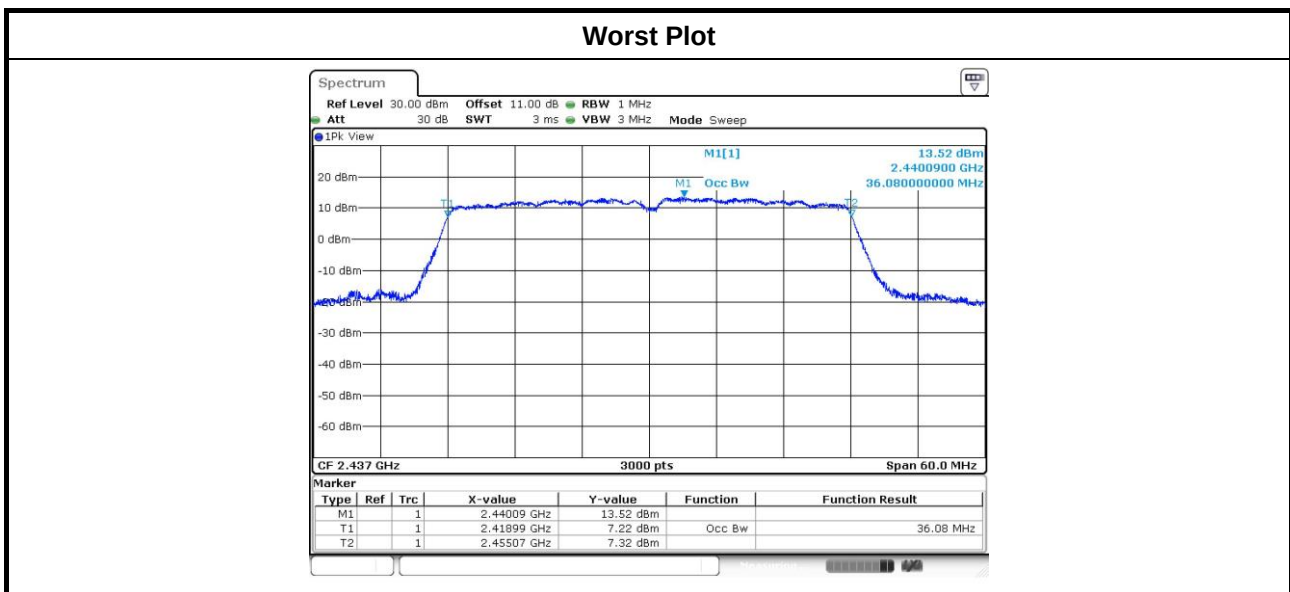
### 3.2.4 Test Result of 6dB and Occupied Bandwidth

| Modulation Mode | N <sub>TX</sub> | Freq. (MHz) | 6dB Bandwidth (MHz) |         |         |         | Limit (kHz) |
|-----------------|-----------------|-------------|---------------------|---------|---------|---------|-------------|
|                 |                 |             | Chain 0             | Chain 1 | Chain 2 | Chain 3 |             |
| 11b             | 2               | 2412        | 8.06                | 8.06    | ---     | ---     | 500         |
| 11b             | 2               | 2437        | 8.06                | 8.06    | ---     | ---     | 500         |
| 11b             | 2               | 2462        | 7.59                | 8.06    | ---     | ---     | 500         |
| 11g             | 2               | 2412        | 16.29               | 16.29   | ---     | ---     | 500         |
| 11g             | 2               | 2437        | 16.29               | 16.29   | ---     | ---     | 500         |
| 11g             | 2               | 2462        | 16.29               | 16.29   | ---     | ---     | 500         |
| VHT20           | 2               | 2412        | 17.57               | 17.57   | ---     | ---     | 500         |
| VHT20           | 2               | 2437        | 17.57               | 16.58   | ---     | ---     | 500         |
| VHT20           | 2               | 2462        | 17.57               | 16.52   | ---     | ---     | 500         |
| VHT40           | 2               | 2422        | 35.13               | 35.01   | ---     | ---     | 500         |
| VHT40           | 2               | 2437        | 35.25               | 35.25   | ---     | ---     | 500         |
| VHT40           | 2               | 2452        | 35.13               | 35.01   | ---     | ---     | 500         |

Worst Plot



| Modulation Mode | N <sub>TX</sub> | Freq. (MHz) | 99% Occupied Bandwidth (MHz) |         |         |         |
|-----------------|-----------------|-------------|------------------------------|---------|---------|---------|
|                 |                 |             | Chain 0                      | Chain 1 | Chain 2 | Chain 3 |
| 11b             | 2               | 2412        | 13.58                        | 13.53   | ---     | ---     |
| 11b             | 2               | 2437        | 14.44                        | 14.01   | ---     | ---     |
| 11b             | 2               | 2462        | 13.02                        | 13.12   | ---     | ---     |
| 11g             | 2               | 2412        | 16.52                        | 16.47   | ---     | ---     |
| 11g             | 2               | 2437        | 17.26                        | 16.93   | ---     | ---     |
| 11g             | 2               | 2462        | 16.52                        | 16.45   | ---     | ---     |
| VHT20           | 2               | 2412        | 17.64                        | 17.61   | ---     | ---     |
| VHT20           | 2               | 2437        | 18.07                        | 17.93   | ---     | ---     |
| VHT20           | 2               | 2462        | 17.63                        | 17.61   | ---     | ---     |
| VHT40           | 2               | 2422        | 35.94                        | 36.02   | ---     | ---     |
| VHT40           | 2               | 2437        | 36.00                        | 36.08   | ---     | ---     |
| VHT40           | 2               | 2452        | 35.98                        | 36.04   | ---     | ---     |



### 3.3 RF Output Power

#### 3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

Antenna gain  $\leq 6\text{dBi}$ , no any corresponding reduction is in output power limit.

Antenna gain  $> 6\text{dBi}$

Non Fixed, point to point operations.

The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB

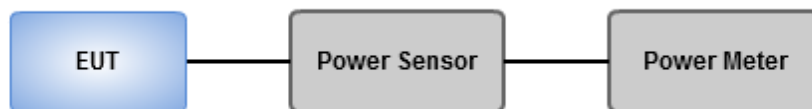
Fixed, point to point operations

Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

#### 3.3.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

#### 3.3.3 Test Setup



### 3.3.4 Test Result of Maximum Output Power

| Modulation Mode | N <sub>TX</sub> | Freq. (MHz) | Conducted (Average) Output Power (dBm) |         |         |         |                  |                   |             | Ant. Gain (dBi) | EIRP (dBm) | EIRP Limit (dBm) |
|-----------------|-----------------|-------------|----------------------------------------|---------|---------|---------|------------------|-------------------|-------------|-----------------|------------|------------------|
|                 |                 |             | Chain 0                                | Chain 1 | Chain 2 | Chain 3 | Total Power (mW) | Total Power (dBm) | Limit (dBm) |                 |            |                  |
| 11b             | 2               | 2412        | 20.6                                   | 20.01   | ---     | ---     | 215.046          | 23.33             | 30.00       | 2.20            | 25.53      | 36.00            |
| 11b             | 2               | 2437        | 22.41                                  | 21.9    | ---     | ---     | 329.062          | <b>25.17</b>      | 30.00       | 2.20            | 27.37      | 36.00            |
| 11b             | 2               | 2462        | 19.86                                  | 18.81   | ---     | ---     | 172.860          | 22.38             | 30.00       | 2.20            | 24.58      | 36.00            |
| 11g             | 2               | 2412        | 18.76                                  | 18.74   | ---     | ---     | 149.979          | 21.76             | 30.00       | 2.20            | 23.96      | 36.00            |
| 11g             | 2               | 2437        | 21.65                                  | 21.54   | ---     | ---     | 288.778          | 24.61             | 30.00       | 2.20            | 26.81      | 36.00            |
| 11g             | 2               | 2462        | 18.21                                  | 17.43   | ---     | ---     | 121.557          | 20.85             | 30.00       | 2.20            | 23.05      | 36.00            |
| HT20            | 2               | 2412        | 17.46                                  | 17.31   | ---     | ---     | 109.546          | 20.40             | 30.00       | 2.20            | 22.60      | 36.00            |
| HT20            | 2               | 2437        | 21.54                                  | 21.47   | ---     | ---     | 282.842          | 24.52             | 30.00       | 2.20            | 26.72      | 36.00            |
| HT20            | 2               | 2462        | 17.94                                  | 17.23   | ---     | ---     | 115.075          | 20.61             | 30.00       | 2.20            | 22.81      | 36.00            |
| HT40            | 2               | 2422        | 15.68                                  | 15.45   | ---     | ---     | 72.058           | 18.58             | 30.00       | 2.20            | 20.78      | 36.00            |
| HT40            | 2               | 2437        | 18.82                                  | 18.38   | ---     | ---     | 145.073          | 21.62             | 30.00       | 2.20            | 23.82      | 36.00            |
| HT40            | 2               | 2452        | 16.89                                  | 16.24   | ---     | ---     | 90.938           | 19.59             | 30.00       | 2.20            | 21.79      | 36.00            |
| VHT20           | 2               | 2412        | 17.52                                  | 17.42   | ---     | ---     | 111.701          | 20.48             | 30.00       | 2.20            | 22.68      | 36.00            |
| VHT20           | 2               | 2437        | 21.61                                  | 21.52   | ---     | ---     | 286.783          | 24.58             | 30.00       | 2.20            | 26.78      | 36.00            |
| VHT20           | 2               | 2462        | 18.02                                  | 17.25   | ---     | ---     | 116.475          | 20.66             | 30.00       | 2.20            | 22.86      | 36.00            |
| VHT40           | 2               | 2422        | 15.72                                  | 15.55   | ---     | ---     | 73.217           | 18.65             | 30.00       | 2.20            | 20.85      | 36.00            |
| VHT40           | 2               | 2437        | 18.89                                  | 18.43   | ---     | ---     | 147.109          | 21.68             | 30.00       | 2.20            | 23.88      | 36.00            |
| VHT40           | 2               | 2452        | 16.91                                  | 16.35   | ---     | ---     | 92.243           | 19.65             | 30.00       | 2.20            | 21.85      | 36.00            |

### 3.4 Power Spectral Density

#### 3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

#### 3.4.2 Test Procedures

##### Peak PSD

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = Peak, Sweep time = auto couple.
3. Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

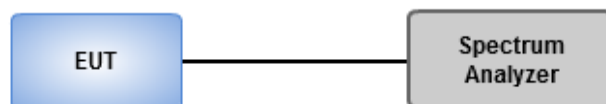
##### Average PSD, duty cycle $\geq 98\%$

1. Set the RBW = 30 kHz, VBW = 100 kHz.
2. Detector = RMS, Sweep time = auto couple.
3. Sweep time = auto couple.
4. Employ trace averaging (RMS) mode over a minimum of 100 traces.
5. Use the peak marker function to determine the maximum amplitude level.

##### Average PSD, duty cycle $< 98\%$

1. Set the RBW = 30 kHz, VBW = 100 kHz. Detector = RMS.
2. Set the sweep time to:  $\geq 10$  (number of measurement points in sweep)  $\times$  (total on/off period of the transmitted signal).
3. Perform the measurement over a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add  $10 \log (1/x)$ , where  $x$  is the duty cycle.

#### 3.4.3 Test Setup

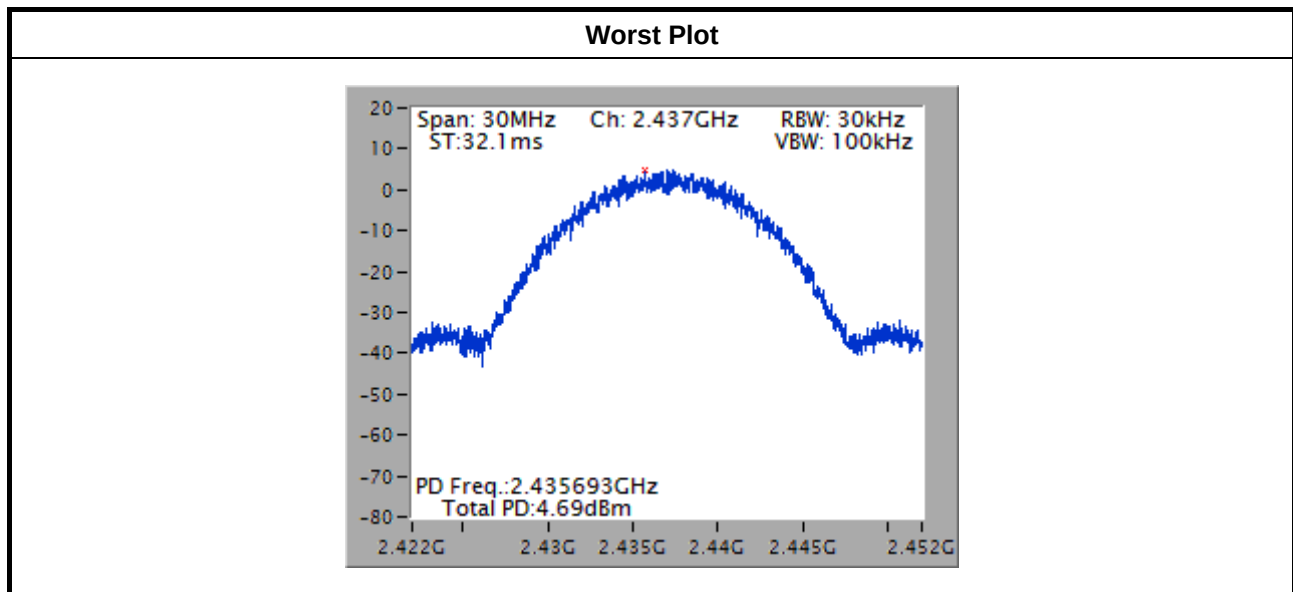


### 3.4.4 Test Result of Power Spectral Density

| Modulation Mode | N <sub>TX</sub> | Freq. (MHz) | PPSD w/o D.F (dBm/30kHz) | Duty Factor (dB) | PPSD with D.F (dBm/30kHz) | Limit (dBm/30kHz) |
|-----------------|-----------------|-------------|--------------------------|------------------|---------------------------|-------------------|
| 11b             | 2               | 2412        | 4.55                     | 0.00             | 4.55                      | 8.00              |
| 11b             | 2               | 2437        | 4.69                     | 0.00             | 4.69                      | 8.00              |
| 11b             | 2               | 2462        | 2.69                     | 0.00             | 2.69                      | 8.00              |
| 11g             | 2               | 2412        | -3.11                    | 0.15             | -3.26                     | 8.00              |
| 11g             | 2               | 2437        | -0.35                    | 0.15             | -0.50                     | 8.00              |
| 11g             | 2               | 2462        | -3.99                    | 0.15             | -4.14                     | 8.00              |
| VHT20           | 2               | 2412        | -4.31                    | 0.00             | -4.31                     | 8.00              |
| VHT20           | 2               | 2437        | -0.34                    | 0.00             | -0.34                     | 8.00              |
| VHT20           | 2               | 2462        | -3.85                    | 0.00             | -3.85                     | 8.00              |
| VHT40           | 2               | 2422        | -9.15                    | 0.11             | -9.26                     | 8.00              |
| VHT40           | 2               | 2437        | -5.99                    | 0.11             | -6.10                     | 8.00              |
| VHT40           | 2               | 2452        | -8.01                    | 0.11             | -8.12                     | 8.00              |

Note 1: Test result is bin-by-bin summing measured value of each TX port.

Note 2: D.F is duty factor



### 3.5 Unwanted Emissions into Restricted Frequency Bands

#### 3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

| Restricted Band Emissions Limit |                       |                         |                      |
|---------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)           | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                     | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                     | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                      | 30                    | 29                      | 30                   |
| 30~88                           | 100                   | 40                      | 3                    |
| 88~216                          | 150                   | 43.5                    | 3                    |
| 216~960                         | 200                   | 46                      | 3                    |
| Above 960                       | 500                   | 54                      | 3                    |

**Note 1:**  
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

**Note 2:**  
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

#### 3.5.2 Test Procedures

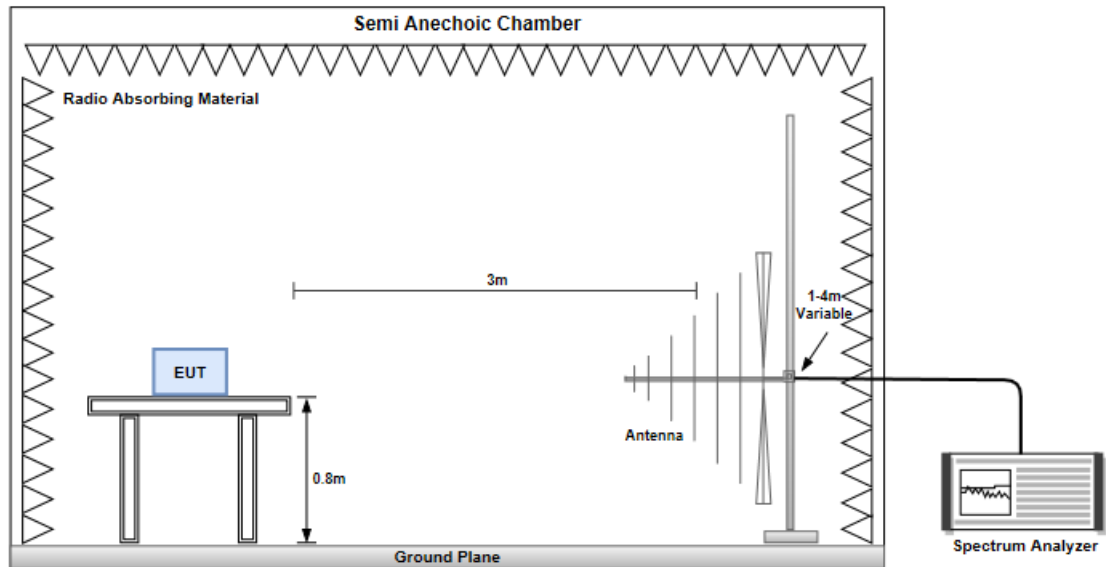
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

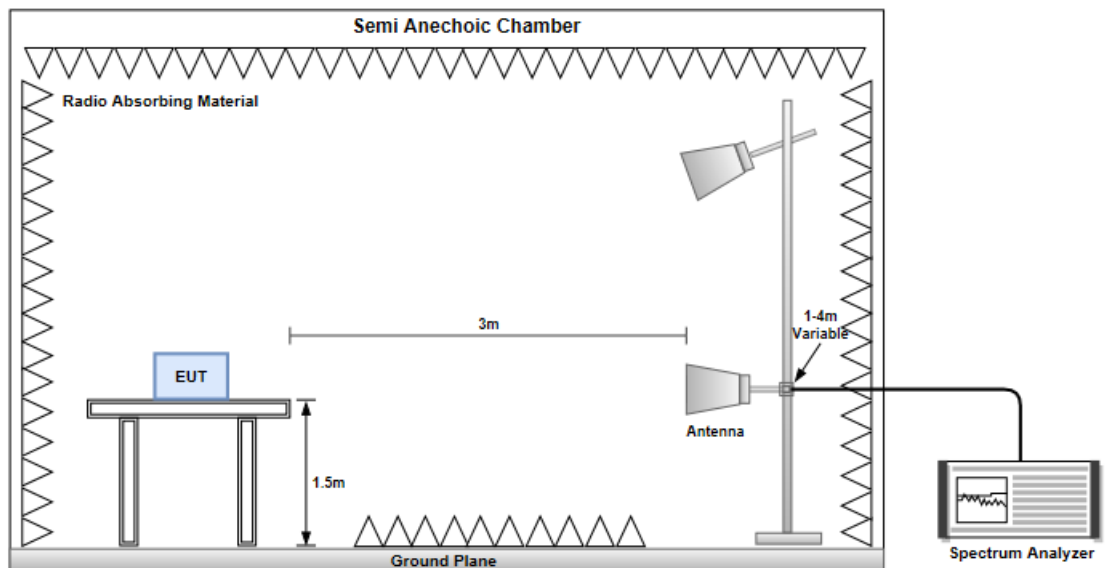
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

### 3.5.3 Test Setup

#### Radiated Emissions below 1 GHz



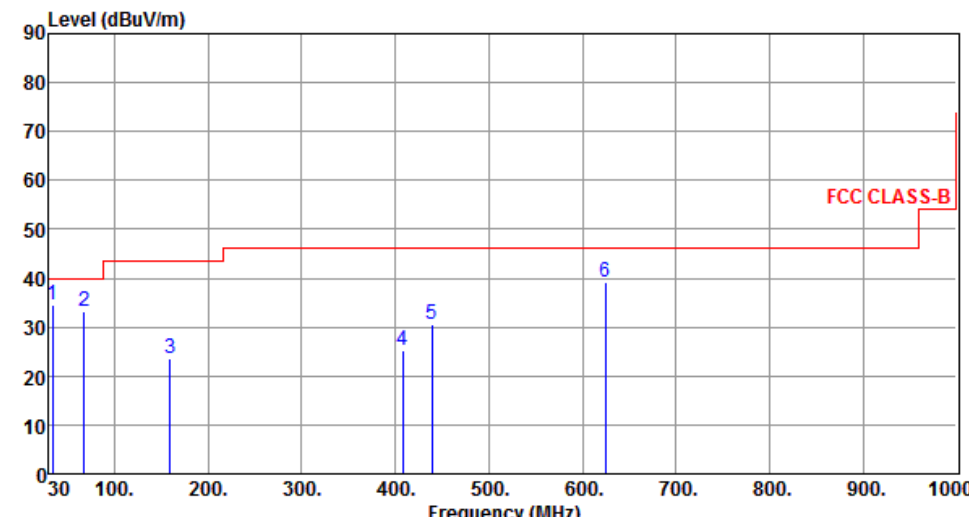
#### Radiated Emissions above 1 GHz



### 3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 11b        | Test Freq. (MHz) | 2437 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Horizontal |                  |      |
| <div><div><div>Level (dBuV/m)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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|            |                  |      |

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11b      | Test Freq. (MHz) | 2437 |
| Polarization | Vertical |                  |      |

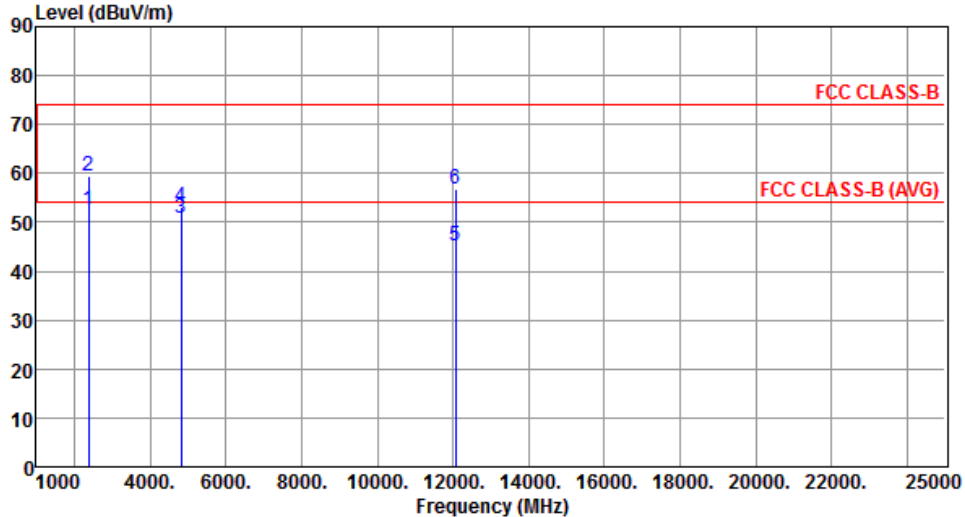
  


|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 33.79        | 34.66                       | 40.00           | -5.34        | 43.74                 | -9.08        | QP     | 100               | 250                  |
| 2 | 67.78        | 33.36                       | 40.00           | -6.64        | 43.55                 | -10.19       | Peak   | ---               | ---                  |
| 3 | 159.01       | 23.66                       | 43.50           | -19.84       | 31.80                 | -8.14        | Peak   | ---               | ---                  |
| 4 | 408.27       | 25.33                       | 46.00           | -20.67       | 30.42                 | -5.09        | Peak   | ---               | ---                  |
| 5 | 439.51       | 30.39                       | 46.00           | -15.61       | 34.70                 | -4.31        | Peak   | ---               | ---                  |
| 6 | 624.61       | 39.12                       | 46.00           | -6.88        | 39.57                 | -0.45        | Peak   | ---               | ---                  |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).  
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

### 3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

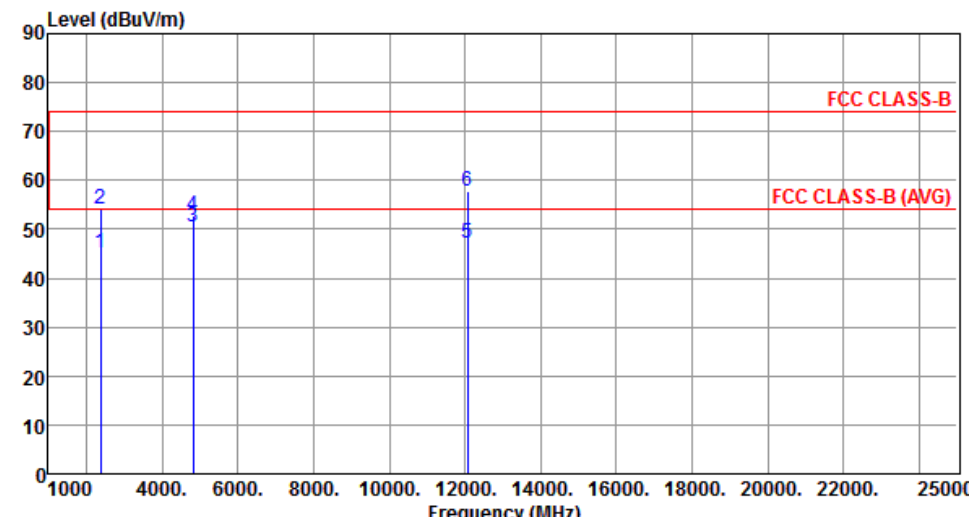
|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11b        | Test Freq. (MHz) | 2412 |
| Polarization | Horizontal |                  |      |

|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00      | 52.64                       | 54.00           | -1.36        | 56.24                 | -3.60        | Average | 100               | 321                  |
| 2 | 2390.00      | 59.47                       | 74.00           | -14.53       | 63.07                 | -3.60        | Peak    | 100               | 321                  |
| 3 | 4824.00      | 50.87                       | 54.00           | -3.13        | 47.27                 | 3.60         | Average | 100               | 169                  |
| 4 | 4824.00      | 53.17                       | 74.00           | -20.83       | 49.57                 | 3.60         | Peak    | 100               | 169                  |
| 5 | 12060.00     | 45.09                       | 54.00           | -8.91        | 31.77                 | 13.32        | Average | 100               | 116                  |
| 6 | 12060.00     | 56.77                       | 74.00           | -17.23       | 43.45                 | 13.32        | Peak    | 100               | 116                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

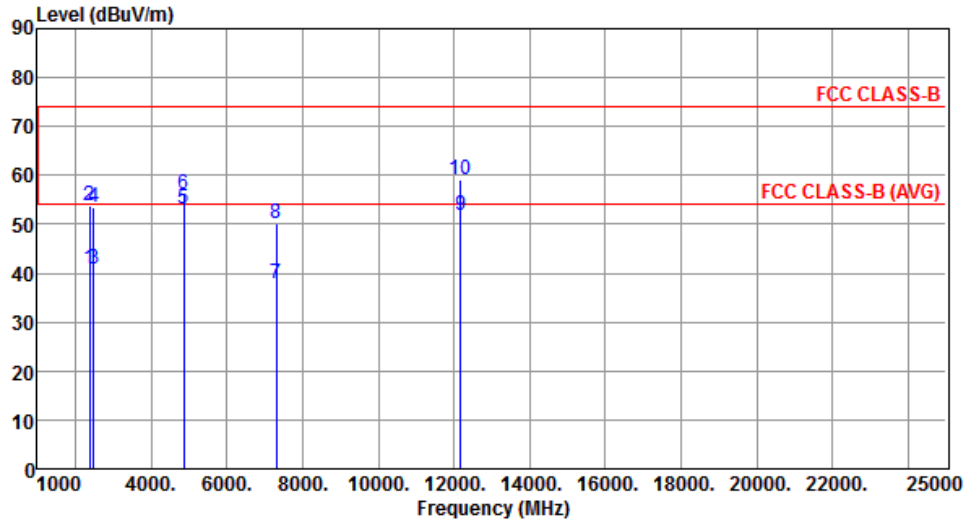
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11b      | Test Freq. (MHz) | 2412 |
| Polarization | Vertical |                  |      |

|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00      | 45.32                       | 54.00           | -8.68        | 48.92                 | -3.60        | Average | 100               | 163                  |
| 2 | 2390.00      | 54.05                       | 74.00           | -19.95       | 57.65                 | -3.60        | Peak    | 100               | 163                  |
| 3 | 4824.00      | 50.63                       | 54.00           | -3.37        | 47.03                 | 3.60         | Average | 100               | 163                  |
| 4 | 4824.00      | 52.86                       | 74.00           | -21.14       | 49.26                 | 3.60         | Peak    | 100               | 163                  |
| 5 | 12060.00     | 47.23                       | 54.00           | -6.77        | 33.91                 | 13.32        | Average | 100               | 37                   |
| 6 | 12060.00     | 57.87                       | 74.00           | -16.13       | 44.55                 | 13.32        | Peak    | 100               | 37                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11b        | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal |                  |      |



|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2390.00      | 40.74                       | 54.00           | -13.26       | 44.34                 | -3.60        | Average | 100               | 157                  |
| 2  | 2390.00      | 53.65                       | 74.00           | -20.35       | 57.25                 | -3.60        | Peak    | 100               | 157                  |
| 3  | 2483.50      | 40.71                       | 54.00           | -13.29       | 43.90                 | -3.19        | Average | 100               | 157                  |
| 4  | 2483.50      | 53.53                       | 74.00           | -20.47       | 56.72                 | -3.19        | Peak    | 100               | 157                  |
| 5  | 4874.00      | 52.97                       | 54.00           | -1.03        | 49.22                 | 3.75         | Average | 100               | 95                   |
| 6  | 4874.00      | 56.10                       | 74.00           | -17.90       | 52.35                 | 3.75         | Peak    | 100               | 95                   |
| 7  | 7311.00      | 37.76                       | 54.00           | -16.24       | 29.63                 | 8.13         | Average | 100               | 218                  |
| 8  | 7311.00      | 50.27                       | 74.00           | -23.73       | 42.14                 | 8.13         | Peak    | 100               | 218                  |
| 9  | 12185.00     | 51.77                       | 54.00           | -2.23        | 38.49                 | 13.28        | Average | 107               | 139                  |
| 10 | 12185.00     | 59.06                       | 74.00           | -14.94       | 45.78                 | 13.28        | Peak    | 107               | 139                  |

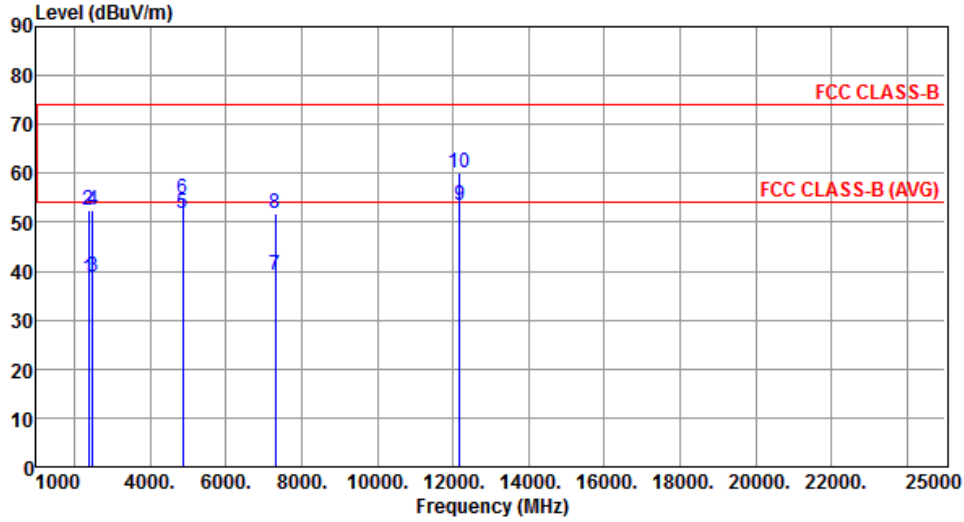
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11b      | Test Freq. (MHz) | 2437 |
| Polarization | Vertical |                  |      |



|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2390.00      | 38.42                       | 54.00           | -15.58       | 42.02                 | -3.60        | Average | 179               | 343                  |
| 2  | 2390.00      | 52.39                       | 74.00           | -21.61       | 55.99                 | -3.60        | Peak    | 179               | 343                  |
| 3  | 2483.50      | 38.91                       | 54.00           | -15.09       | 42.10                 | -3.19        | Average | 179               | 343                  |
| 4  | 2483.50      | 52.55                       | 74.00           | -21.45       | 55.74                 | -3.19        | Peak    | 179               | 343                  |
| 5  | 4874.00      | 51.85                       | 54.00           | -2.15        | 48.10                 | 3.75         | Average | 139               | 166                  |
| 6  | 4874.00      | 54.69                       | 74.00           | -19.31       | 50.94                 | 3.75         | Peak    | 139               | 166                  |
| 7  | 7311.00      | 39.19                       | 54.00           | -14.81       | 31.06                 | 8.13         | Average | 100               | 117                  |
| 8  | 7311.00      | 51.88                       | 74.00           | -22.12       | 43.75                 | 8.13         | Peak    | 100               | 117                  |
| 9  | 12185.00     | 53.49                       | 54.00           | -0.51        | 40.21                 | 13.28        | Average | 100               | 40                   |
| 10 | 12185.00     | 60.25                       | 74.00           | -13.75       | 46.97                 | 13.28        | Peak    | 100               | 40                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11b        | Test Freq. (MHz) | 2462 |
| Polarization | Horizontal |                  |      |

|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2483.50      | 41.36                       | 54.00           | -12.64       | 44.55                 | -3.19        | Average | 100               | 243                  |
| 2 | 2483.50      | 54.33                       | 74.00           | -19.67       | 57.52                 | -3.19        | Peak    | 100               | 243                  |
| 3 | 4924.00      | 52.10                       | 54.00           | -1.90        | 48.18                 | 3.92         | Average | 100               | 196                  |
| 4 | 4924.00      | 54.10                       | 74.00           | -19.90       | 50.18                 | 3.92         | Peak    | 100               | 196                  |
| 5 | 12310.00     | 41.78                       | 54.00           | -12.22       | 28.54                 | 13.24        | Average | 100               | 204                  |
| 6 | 12310.00     | 54.48                       | 74.00           | -19.52       | 41.24                 | 13.24        | Peak    | 100               | 204                  |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11b      | Test Freq. (MHz) | 2462 |
| Polarization | Vertical |                  |      |

|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2483.50      | 40.06                       | 54.00           | -13.94       | 43.25                 | -3.19        | Average | 100               | 245                  |
| 2 | 2483.50      | 53.23                       | 74.00           | -20.77       | 56.42                 | -3.19        | Peak    | 100               | 245                  |
| 3 | 4924.00      | 53.00                       | 54.00           | -1.00        | 49.08                 | 3.92         | Average | 100               | 165                  |
| 4 | 4924.00      | 55.72                       | 74.00           | -18.28       | 51.80                 | 3.92         | Peak    | 100               | 165                  |
| 5 | 12310.00     | 42.23                       | 54.00           | -11.77       | 28.99                 | 13.24        | Average | 100               | 140                  |
| 6 | 12310.00     | 53.93                       | 74.00           | -20.07       | 40.69                 | 13.24        | Peak    | 100               | 140                  |

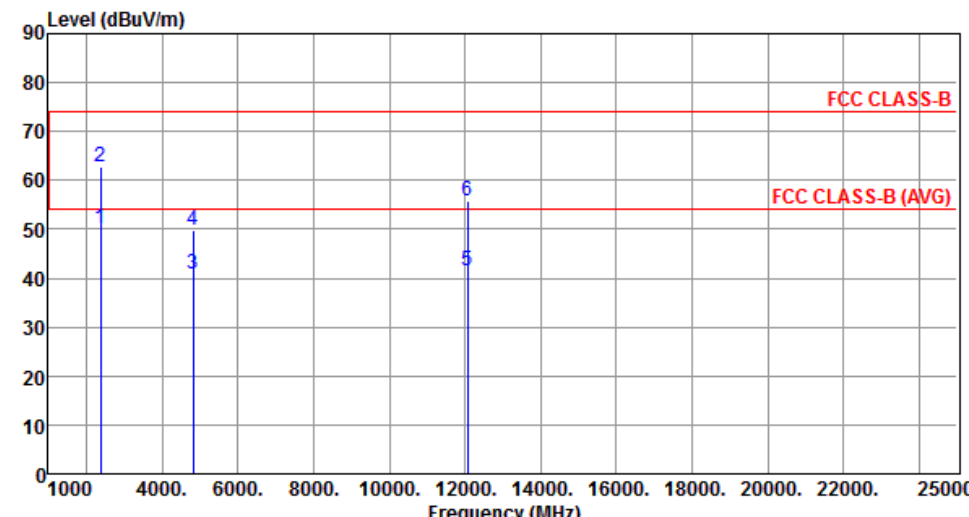
  

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

### 3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11g        |  | Test Freq. (MHz) |  | 2412 |  |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Horizontal |  |                  |  |      |  |
| <div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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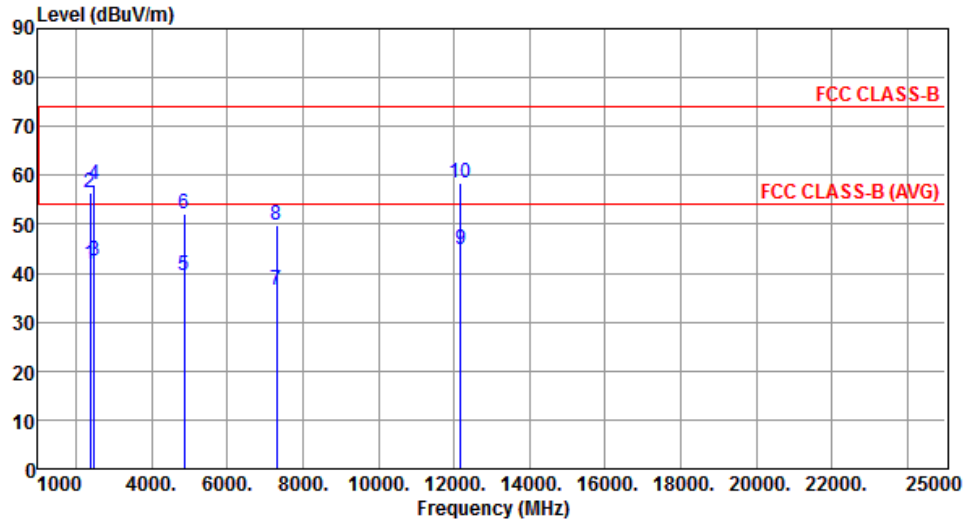
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11g      | Test Freq. (MHz) | 2412 |
| Polarization | Vertical |                  |      |

|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00      | 50.01                       | 54.00           | -3.99        | 53.61                 | -3.60        | Average | 100               | 122                  |
| 2 | 2390.00      | 62.61                       | 74.00           | -11.39       | 66.21                 | -3.60        | Peak    | 100               | 122                  |
| 3 | 4824.00      | 40.73                       | 54.00           | -13.27       | 37.13                 | 3.60         | Average | 100               | 163                  |
| 4 | 4824.00      | 49.93                       | 74.00           | -24.07       | 46.33                 | 3.60         | Peak    | 100               | 163                  |
| 5 | 12060.00     | 41.61                       | 54.00           | -12.39       | 28.47                 | 13.14        | Average | 100               | 40                   |
| 6 | 12060.00     | 55.96                       | 74.00           | -18.04       | 42.82                 | 13.14        | Peak    | 100               | 40                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11g        | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal |                  |      |



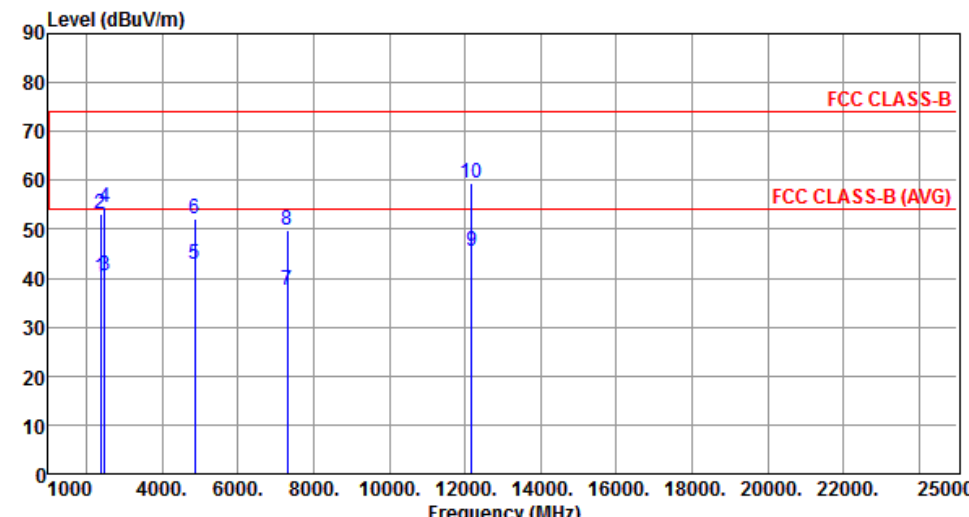
|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2390.00      | 41.93                       | 54.00           | -12.07       | 45.53                 | -3.60        | Average | 100               | 255                  |
| 2  | 2390.00      | 56.38                       | 74.00           | -17.62       | 59.98                 | -3.60        | Peak    | 100               | 255                  |
| 3  | 2483.50      | 42.45                       | 54.00           | -11.55       | 45.64                 | -3.19        | Average | 100               | 255                  |
| 4  | 2483.50      | 57.96                       | 74.00           | -16.04       | 61.15                 | -3.19        | Peak    | 100               | 255                  |
| 5  | 4874.00      | 39.48                       | 54.00           | -14.52       | 35.73                 | 3.75         | Average | 100               | 89                   |
| 6  | 4874.00      | 52.18                       | 74.00           | -21.82       | 48.43                 | 3.75         | Peak    | 100               | 89                   |
| 7  | 7311.00      | 36.50                       | 54.00           | -17.50       | 28.37                 | 8.13         | Average | 100               | 50                   |
| 8  | 7311.00      | 49.98                       | 74.00           | -24.02       | 41.85                 | 8.13         | Peak    | 100               | 50                   |
| 9  | 12185.00     | 44.81                       | 54.00           | -9.19        | 31.74                 | 13.07        | Average | 100               | 20                   |
| 10 | 12185.00     | 58.43                       | 74.00           | -15.57       | 45.36                 | 13.07        | Peak    | 100               | 20                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

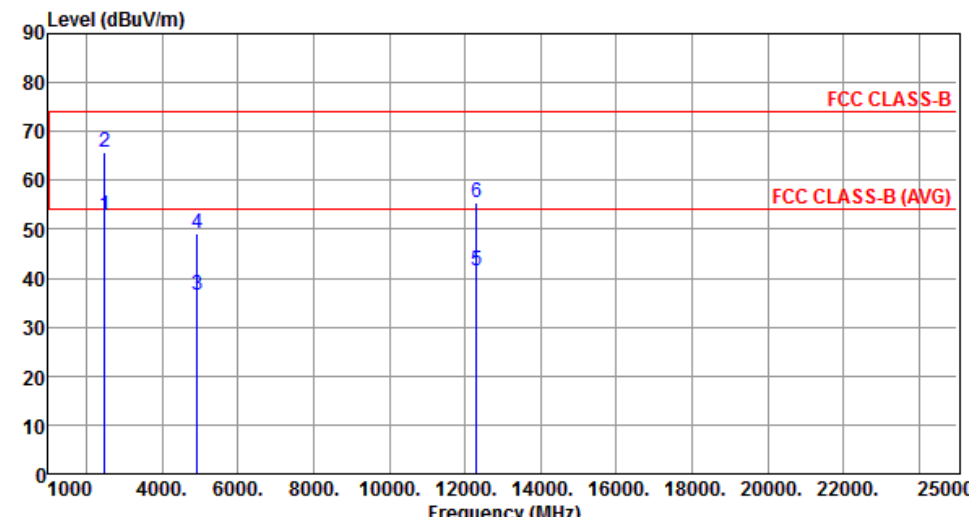
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11g      | Test Freq. (MHz) | 2437 |
| Polarization | Vertical |                  |      |

|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2390.00      | 40.21                       | 54.00           | -13.79       | 43.81                 | -3.60        | Average | 100               | 151                  |
| 2  | 2390.00      | 53.03                       | 74.00           | -20.97       | 56.63                 | -3.60        | Peak    | 100               | 151                  |
| 3  | 2483.50      | 40.49                       | 54.00           | -13.51       | 43.68                 | -3.19        | Average | 100               | 151                  |
| 4  | 2483.50      | 54.50                       | 74.00           | -19.50       | 57.69                 | -3.19        | Peak    | 100               | 151                  |
| 5  | 4874.00      | 42.81                       | 54.00           | -11.19       | 39.06                 | 3.75         | Average | 100               | 167                  |
| 6  | 4874.00      | 52.18                       | 74.00           | -21.82       | 48.43                 | 3.75         | Peak    | 100               | 167                  |
| 7  | 7311.00      | 37.55                       | 54.00           | -16.45       | 29.42                 | 8.13         | Average | 100               | 173                  |
| 8  | 7311.00      | 49.80                       | 74.00           | -24.20       | 41.67                 | 8.13         | Peak    | 100               | 173                  |
| 9  | 12185.00     | 45.59                       | 54.00           | -8.41        | 32.52                 | 13.07        | Average | 100               | 35                   |
| 10 | 12185.00     | 59.32                       | 74.00           | -14.68       | 46.25                 | 13.07        | Peak    | 100               | 35                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11g        | Test Freq. (MHz) | 2462 |
| Polarization | Horizontal |                  |      |

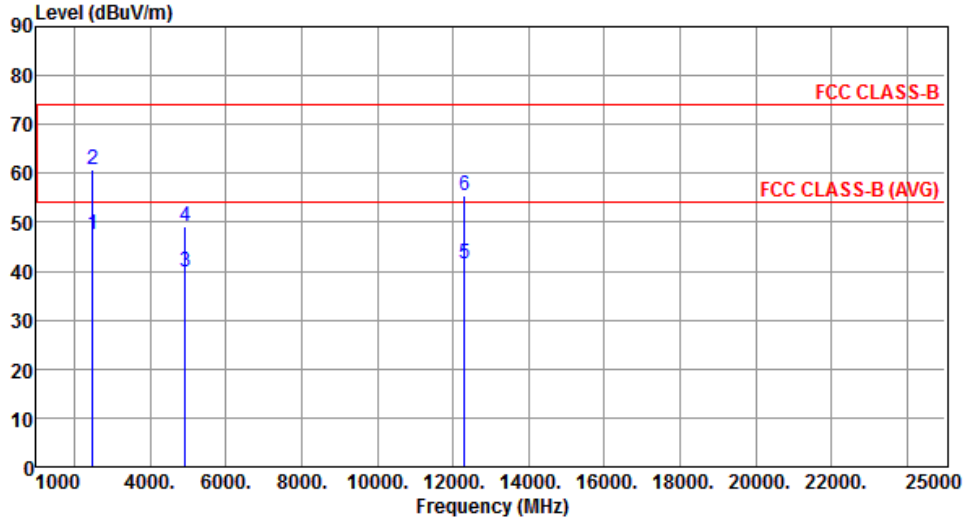
  


|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2483.50      | 52.76                       | 54.00           | -1.24        | 55.95                 | -3.19        | Average | 100               | 257                  |
| 2 | 2483.50      | 65.77                       | 74.00           | -8.23        | 68.96                 | -3.19        | Peak    | 100               | 257                  |
| 3 | 4924.00      | 36.58                       | 54.00           | -17.42       | 32.66                 | 3.92         | Average | 100               | 91                   |
| 4 | 4924.00      | 49.13                       | 74.00           | -24.87       | 45.21                 | 3.92         | Peak    | 100               | 91                   |
| 5 | 12310.00     | 41.57                       | 54.00           | -12.43       | 28.57                 | 13.00        | Average | 100               | 15                   |
| 6 | 12310.00     | 55.41                       | 74.00           | -18.59       | 42.41                 | 13.00        | Peak    | 100               | 15                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11g      | Test Freq. (MHz) | 2462 |
| Polarization | Vertical |                  |      |



|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2483.50      | 47.45                       | 54.00           | -6.55        | 50.64                 | -3.19        | Average | 100               | 344                  |
| 2 | 2483.50      | 60.81                       | 74.00           | -13.19       | 64.00                 | -3.19        | Peak    | 100               | 344                  |
| 3 | 4924.00      | 39.94                       | 54.00           | -14.06       | 36.02                 | 3.92         | Average | 100               | 163                  |
| 4 | 4924.00      | 49.18                       | 74.00           | -24.82       | 45.26                 | 3.92         | Peak    | 100               | 163                  |
| 5 | 12310.00     | 41.49                       | 54.00           | -12.51       | 28.49                 | 13.00        | Average | 100               | 30                   |
| 6 | 12310.00     | 55.48                       | 74.00           | -18.52       | 42.48                 | 13.00        | Peak    | 100               | 30                   |

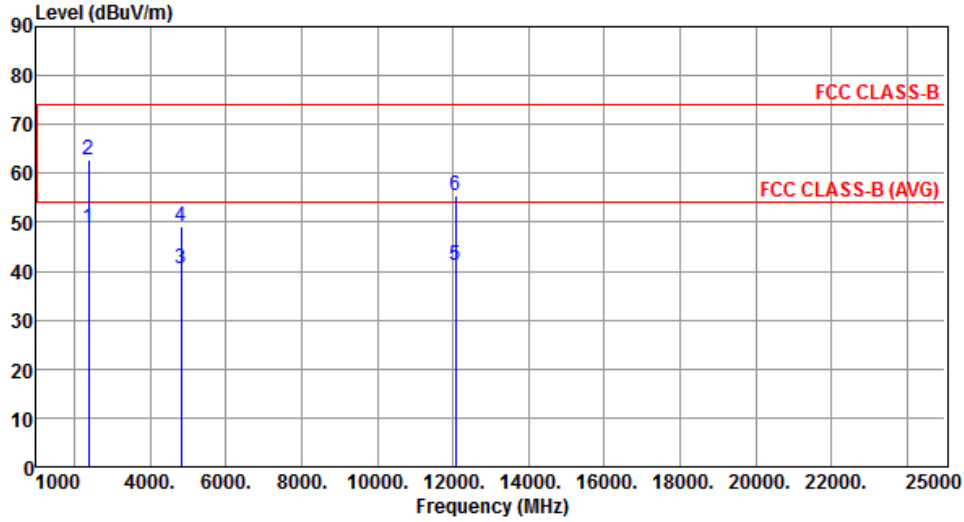
  

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

### 3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | VHT20      | Test Freq. (MHz) | 2412 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Horizontal |                  |      |
| <div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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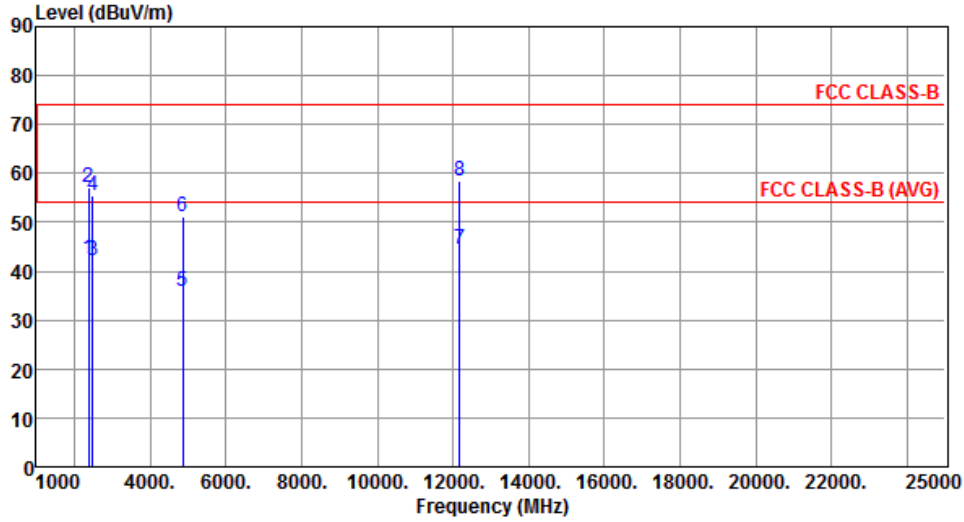
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz) | 2412 |
| Polarization | Vertical |                  |      |

|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00      | 48.85                       | 54.00           | -5.15        | 52.45                 | -3.60        | Average | 100               | 84                   |
| 2 | 2390.00      | 62.74                       | 74.00           | -11.26       | 66.34                 | -3.60        | Peak    | 100               | 84                   |
| 3 | 4824.00      | 40.54                       | 54.00           | -13.46       | 36.94                 | 3.60         | Average | 110               | 165                  |
| 4 | 4824.00      | 49.12                       | 74.00           | -24.88       | 45.52                 | 3.60         | Peak    | 110               | 165                  |
| 5 | 12060.00     | 41.31                       | 54.00           | -12.69       | 28.17                 | 13.14        | Average | 100               | 29                   |
| 6 | 12060.00     | 55.36                       | 74.00           | -18.64       | 42.22                 | 13.14        | Peak    | 100               | 29                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal |                  |      |

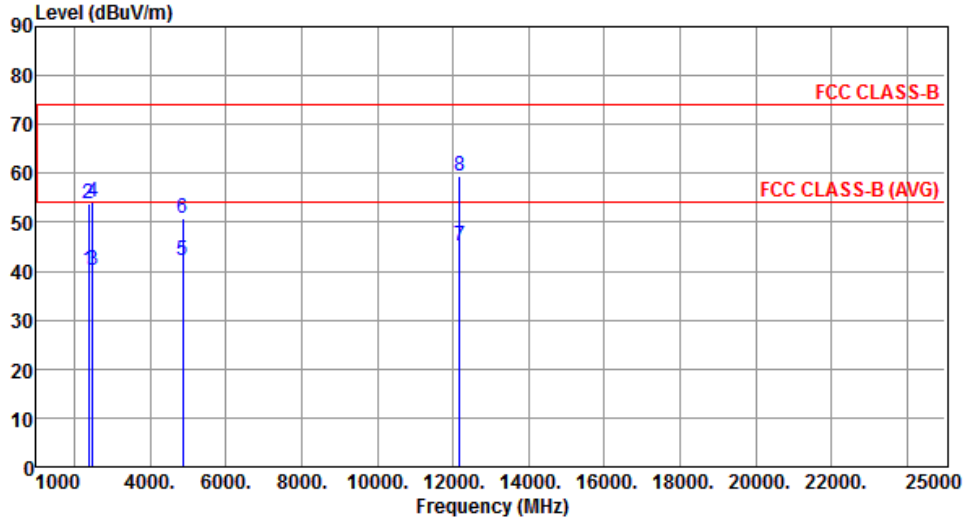
  


|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00      | 42.41                       | 54.00           | -11.59       | 46.01                 | -3.60        | Average | 100               | 153                  |
| 2 | 2390.00      | 57.08                       | 74.00           | -16.92       | 60.68                 | -3.60        | Peak    | 100               | 153                  |
| 3 | 2483.50      | 42.31                       | 54.00           | -11.69       | 45.50                 | -3.19        | Average | 100               | 153                  |
| 4 | 2483.50      | 55.36                       | 74.00           | -18.64       | 58.55                 | -3.19        | Peak    | 100               | 153                  |
| 5 | 4874.00      | 35.76                       | 54.00           | -18.24       | 32.01                 | 3.75         | Average | 125               | 91                   |
| 6 | 4874.00      | 51.14                       | 74.00           | -22.86       | 47.39                 | 3.75         | Peak    | 125               | 91                   |
| 7 | 12185.00     | 44.36                       | 54.00           | -9.64        | 31.29                 | 13.07        | Average | 100               | 22                   |
| 8 | 12185.00     | 58.48                       | 74.00           | -15.52       | 45.41                 | 13.07        | Peak    | 100               | 22                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz) | 2437 |
| Polarization | Vertical |                  |      |

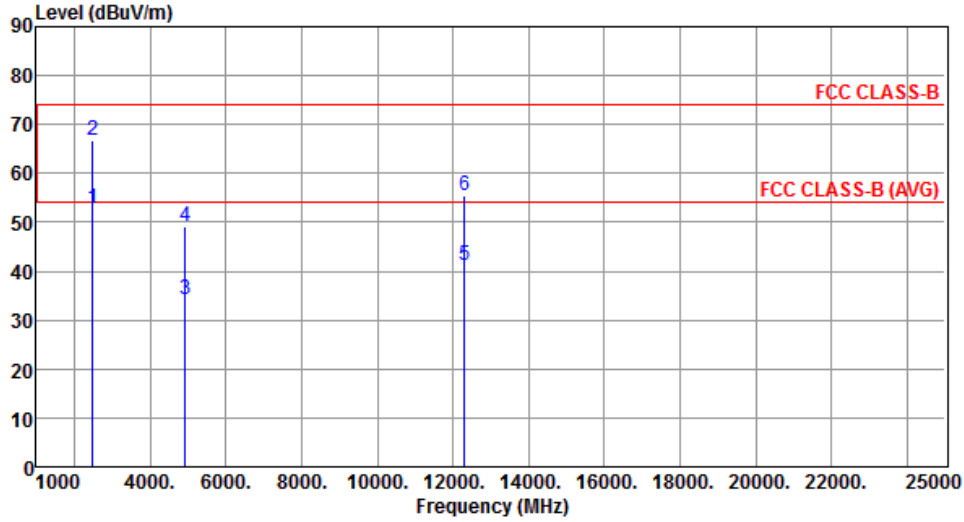


|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00      | 40.22                       | 54.00           | -13.78       | 43.82                 | -3.60        | Average | 100               | 146                  |
| 2 | 2390.00      | 53.64                       | 74.00           | -20.36       | 57.24                 | -3.60        | Peak    | 100               | 146                  |
| 3 | 2483.50      | 40.06                       | 54.00           | -13.94       | 43.25                 | -3.19        | Average | 100               | 146                  |
| 4 | 2483.50      | 54.25                       | 74.00           | -19.75       | 57.44                 | -3.19        | Peak    | 100               | 146                  |
| 5 | 4874.00      | 42.12                       | 54.00           | -11.88       | 38.37                 | 3.75         | Average | 100               | 168                  |
| 6 | 4874.00      | 50.96                       | 74.00           | -23.04       | 47.21                 | 3.75         | Peak    | 100               | 168                  |
| 7 | 12185.00     | 45.21                       | 54.00           | -8.79        | 32.14                 | 13.07        | Average | 102               | 229                  |
| 8 | 12185.00     | 59.34                       | 74.00           | -14.66       | 46.27                 | 13.07        | Peak    | 102               | 229                  |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

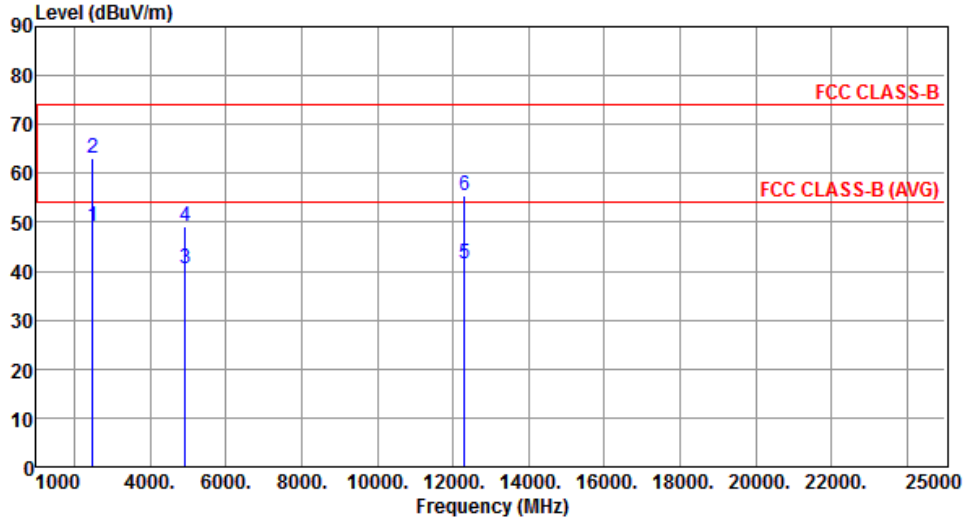
|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz) | 2462 |
| Polarization | Horizontal |                  |      |

|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2483.50      | 52.89                       | 54.00           | -1.11        | 56.08                 | -3.19        | Average | 106               | 166                  |
| 2 | 2483.50      | 66.84                       | 74.00           | -7.16        | 70.03                 | -3.19        | Peak    | 106               | 166                  |
| 3 | 4924.00      | 34.11                       | 54.00           | -19.89       | 30.19                 | 3.92         | Average | 100               | 93                   |
| 4 | 4924.00      | 49.26                       | 74.00           | -24.74       | 45.34                 | 3.92         | Peak    | 100               | 93                   |
| 5 | 12310.00     | 41.18                       | 54.00           | -12.82       | 28.18                 | 13.00        | Average | 100               | 65                   |
| 6 | 12310.00     | 55.47                       | 74.00           | -18.53       | 42.47                 | 13.00        | Peak    | 100               | 65                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz) | 2462 |
| Polarization | Vertical |                  |      |

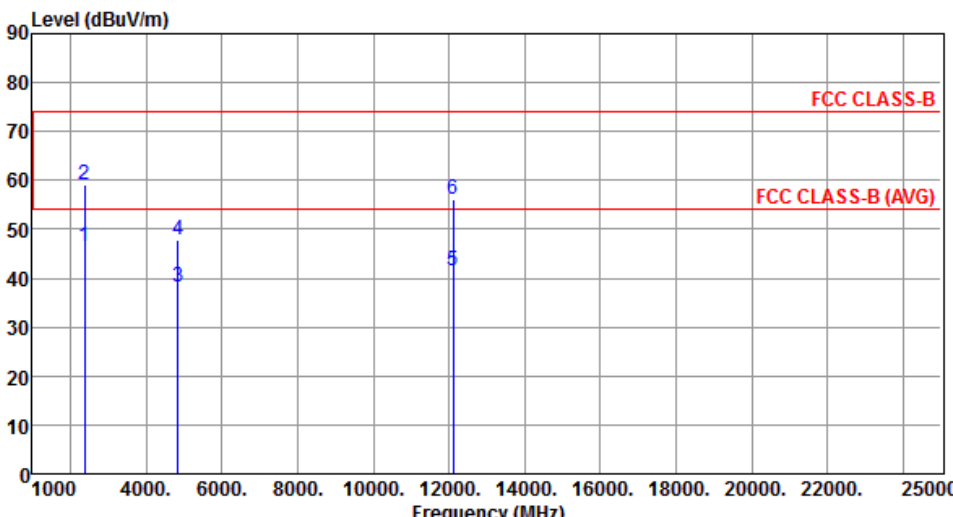
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2483.50      | 49.25                       | 54.00           | -4.75        | 52.44                 | -3.19        | Average | 100               | 344                  |
| 2 | 2483.50      | 63.18                       | 74.00           | -10.82       | 66.37                 | -3.19        | Peak    | 100               | 344                  |
| 3 | 4924.00      | 40.58                       | 54.00           | -13.42       | 36.66                 | 3.92         | Average | 100               | 159                  |
| 4 | 4924.00      | 49.06                       | 74.00           | -24.94       | 45.14                 | 3.92         | Peak    | 100               | 159                  |
| 5 | 12310.00     | 41.36                       | 54.00           | -12.64       | 28.36                 | 13.00        | Average | 100               | 67                   |
| 6 | 12310.00     | 55.34                       | 74.00           | -18.66       | 42.34                 | 13.00        | Peak    | 100               | 67                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

### 3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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|--------------|----------|------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz) | 2422 |
| Polarization | Vertical |                  |      |

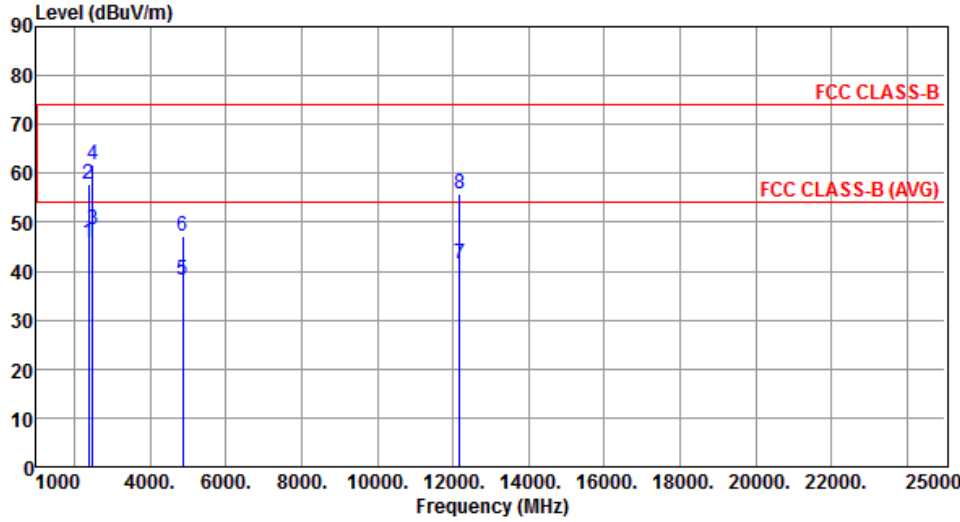
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00      | 46.38                       | 54.00           | -7.62        | 49.98                 | -3.60        | Average | 100               | 119                  |
| 2 | 2390.00      | 59.15                       | 74.00           | -14.85       | 62.75                 | -3.60        | Peak    | 100               | 119                  |
| 3 | 4844.00      | 38.16                       | 54.00           | -15.84       | 34.49                 | 3.67         | Average | 100               | 172                  |
| 4 | 4844.00      | 47.95                       | 74.00           | -26.05       | 44.28                 | 3.67         | Peak    | 100               | 172                  |
| 5 | 12110.00     | 41.56                       | 54.00           | -12.44       | 28.45                 | 13.11        | Average | 100               | 21                   |
| 6 | 12110.00     | 56.07                       | 74.00           | -17.93       | 42.96                 | 13.11        | Peak    | 100               | 21                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

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                                                                                                                                                                                                     | VHT40      | Test Freq. (MHz) | 2437 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| <div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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|            |                  |      |

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz) | 2437 |
| Polarization | Vertical |                  |      |

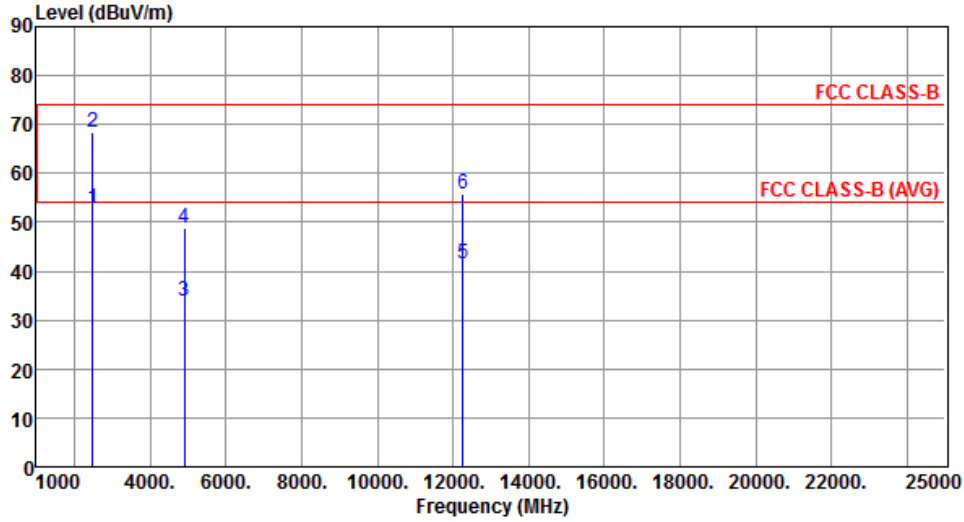


|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00      | 45.72                       | 54.00           | -8.28        | 49.32                 | -3.60        | Average | 100               | 99                   |
| 2 | 2390.00      | 57.68                       | 74.00           | -16.32       | 61.28                 | -3.60        | Peak    | 100               | 99                   |
| 3 | 2483.50      | 48.62                       | 54.00           | -5.38        | 51.81                 | -3.19        | Average | 100               | 99                   |
| 4 | 2483.50      | 61.68                       | 74.00           | -12.32       | 64.87                 | -3.19        | Peak    | 100               | 99                   |
| 5 | 4874.00      | 38.25                       | 54.00           | -15.75       | 34.50                 | 3.75         | Average | 100               | 154                  |
| 6 | 4874.00      | 47.11                       | 74.00           | -26.89       | 43.36                 | 3.75         | Peak    | 100               | 154                  |
| 7 | 12185.00     | 41.39                       | 54.00           | -12.61       | 28.32                 | 13.07        | Average | 100               | 48                   |
| 8 | 12185.00     | 55.69                       | 74.00           | -18.31       | 42.62                 | 13.07        | Peak    | 100               | 48                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz) | 2452 |
| Polarization | Horizontal |                  |      |

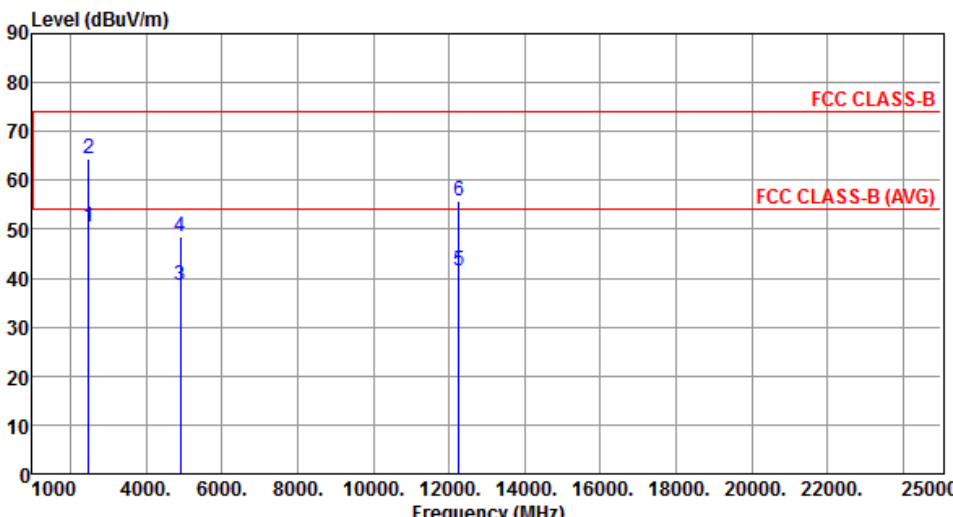
  


The graph displays the emission level in dBUV/m against frequency in MHz. Two horizontal red lines represent the FCC CLASS-B limit at approximately 74 dBUV/m and the FCC CLASS-B (AVG) limit at approximately 54 dBUV/m. Six data points are plotted as vertical blue lines with numerical labels: 1 (at ~2483.5 MHz, ~53 dBUV/m), 2 (at ~2483.5 MHz, ~68 dBUV/m), 3 (at ~4904 MHz, ~34 dBUV/m), 4 (at ~4904 MHz, ~49 dBUV/m), 5 (at ~12260 MHz, ~42 dBUV/m), and 6 (at ~12260 MHz, ~56 dBUV/m).

|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2483.50      | 52.97                       | 54.00           | -1.03        | 56.16                 | -3.19        | Average | 100               | 149                  |
| 2 | 2483.50      | 68.31                       | 74.00           | -5.69        | 71.50                 | -3.19        | Peak    | 100               | 149                  |
| 3 | 4904.00      | 33.94                       | 54.00           | -20.06       | 30.08                 | 3.86         | Average | 100               | 84                   |
| 4 | 4904.00      | 48.91                       | 74.00           | -25.09       | 45.05                 | 3.86         | Peak    | 100               | 84                   |
| 5 | 12260.00     | 41.52                       | 54.00           | -12.48       | 28.49                 | 13.03        | Average | 100               | 79                   |
| 6 | 12260.00     | 55.83                       | 74.00           | -18.17       | 42.80                 | 13.03        | Peak    | 100               | 79                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz) | 2452 |
| Polarization | Vertical |                  |      |

|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2483.50      | 50.36                       | 54.00           | -3.64        | 53.55                 | -3.19        | Average | 100               | 121                  |
| 2 | 2483.50      | 64.48                       | 74.00           | -9.52        | 67.67                 | -3.19        | Peak    | 100               | 121                  |
| 3 | 4904.00      | 38.56                       | 54.00           | -15.44       | 34.70                 | 3.86         | Average | 100               | 166                  |
| 4 | 4904.00      | 48.33                       | 74.00           | -25.67       | 44.47                 | 3.86         | Peak    | 100               | 166                  |
| 5 | 12260.00     | 41.45                       | 54.00           | -12.55       | 28.42                 | 13.03        | Average | 100               | 16                   |
| 6 | 12260.00     | 55.82                       | 74.00           | -18.18       | 42.79                 | 13.03        | Peak    | 100               | 16                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

## 3.6 Emissions in Non-Restricted Frequency Bands

### 3.6.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz.

### 3.6.2 Test Procedures

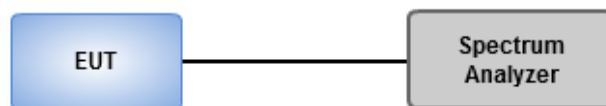
#### Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

#### Emission level measurement

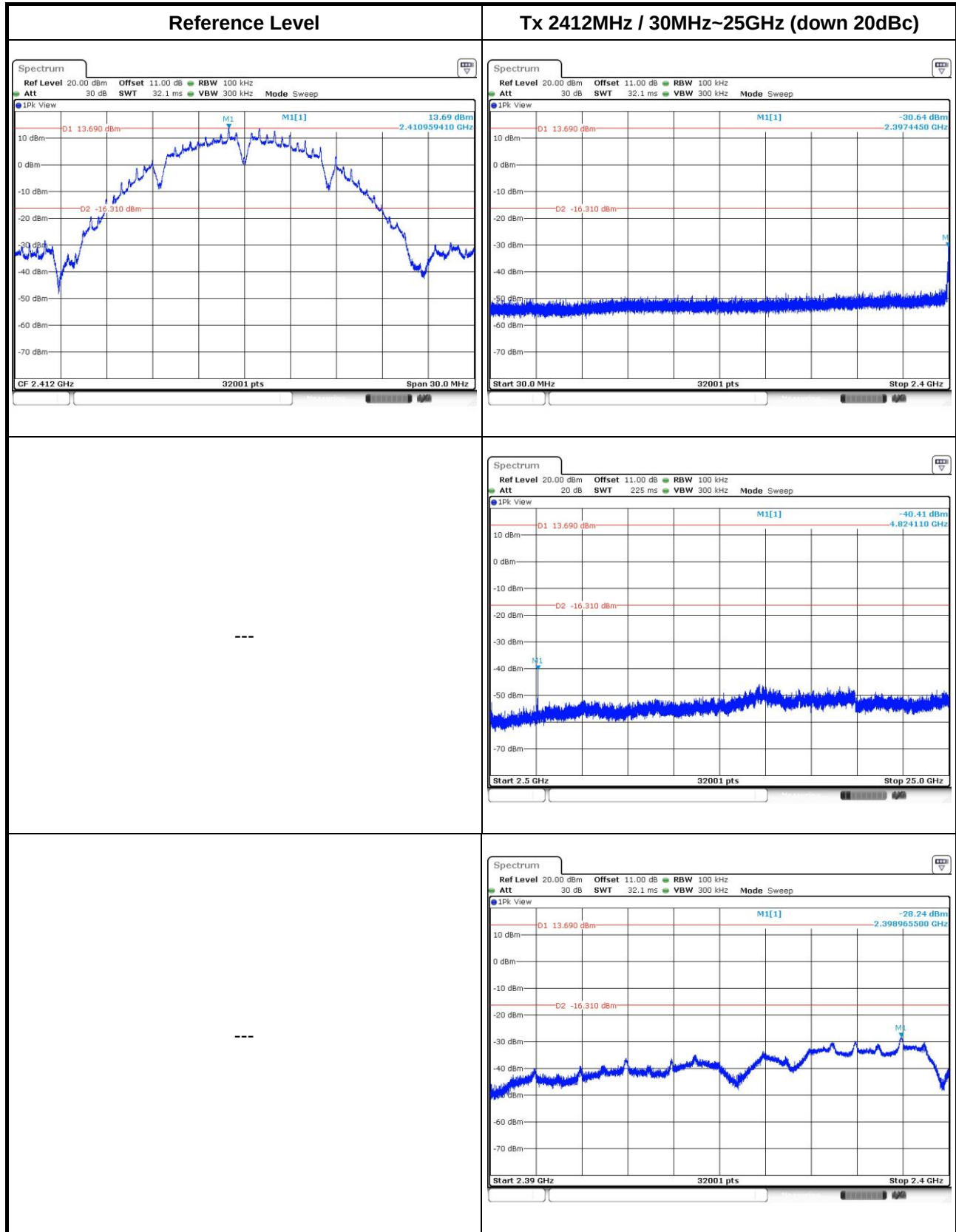
1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

### 3.6.3 Test Setup

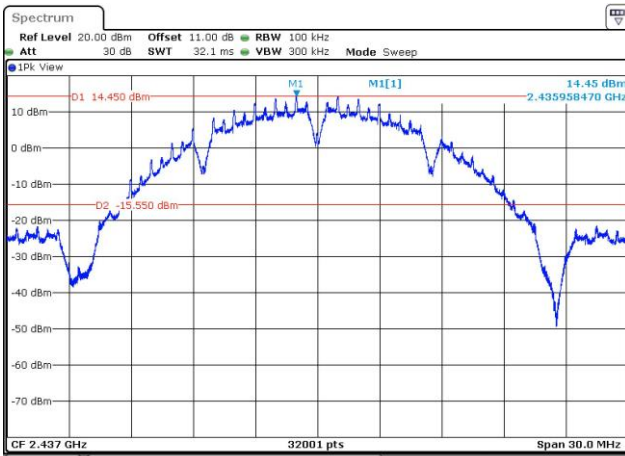


### 3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands

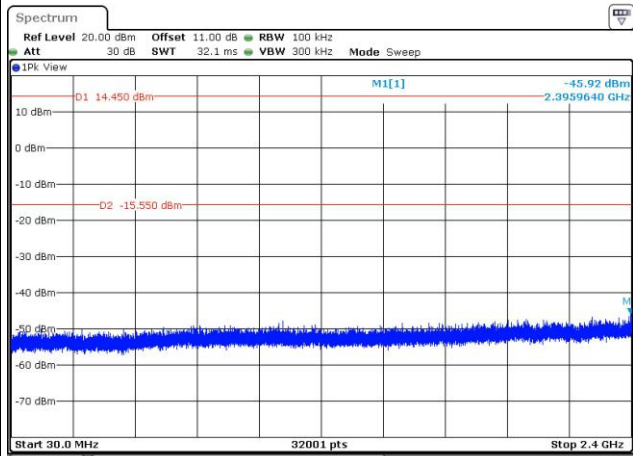
802.11b



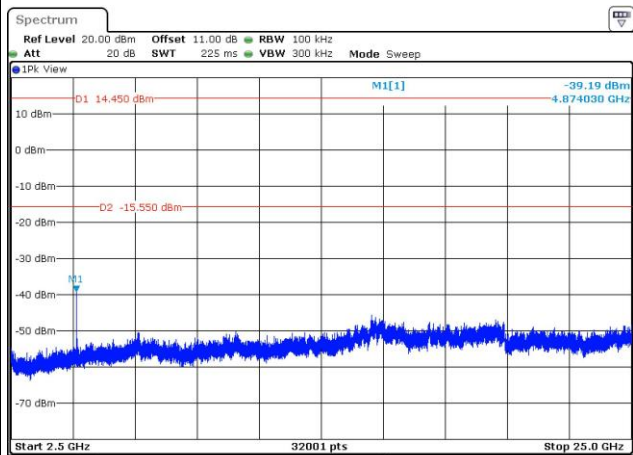
### Reference Level



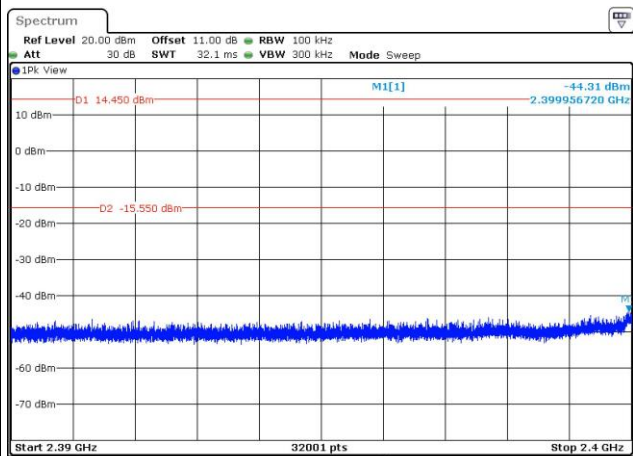
### Tx 2437MHz / 30MHz~25GHz (down 20dBc)



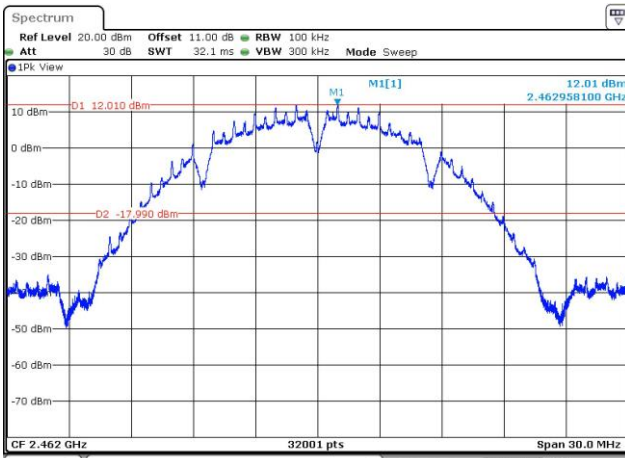
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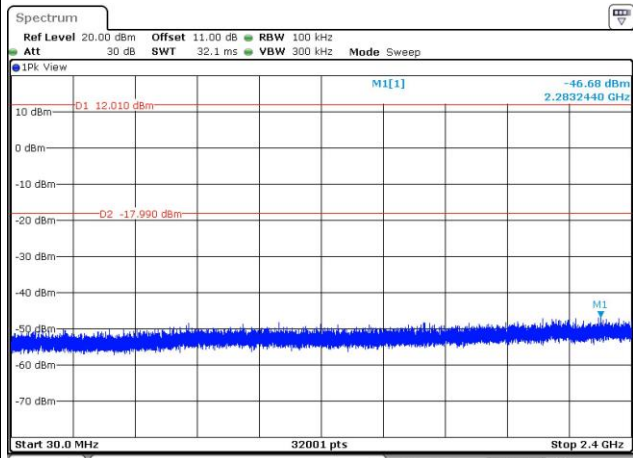
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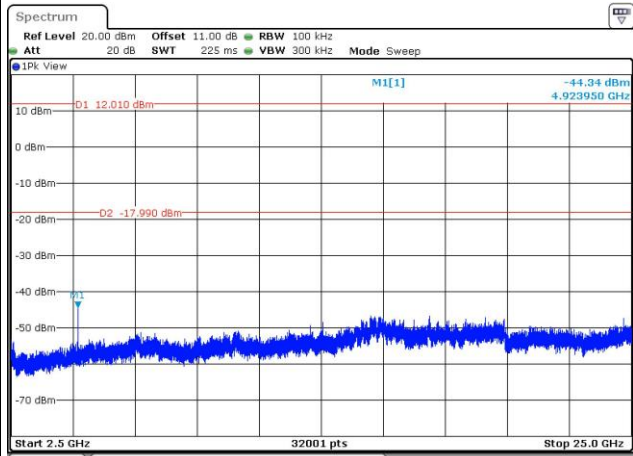
### Reference Level



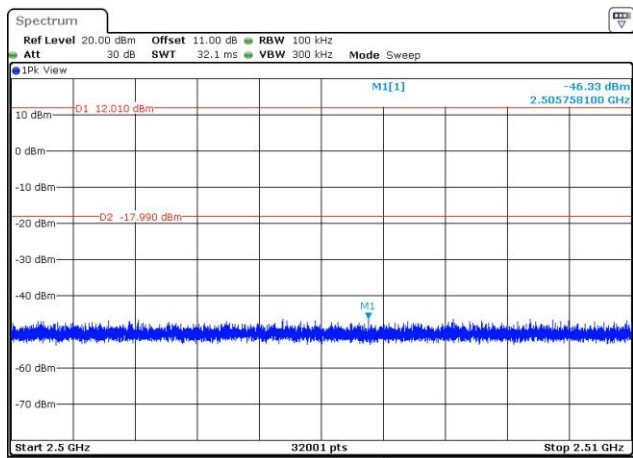
### Tx 2462MHz / 30MHz~25GHz (down 20dBc)



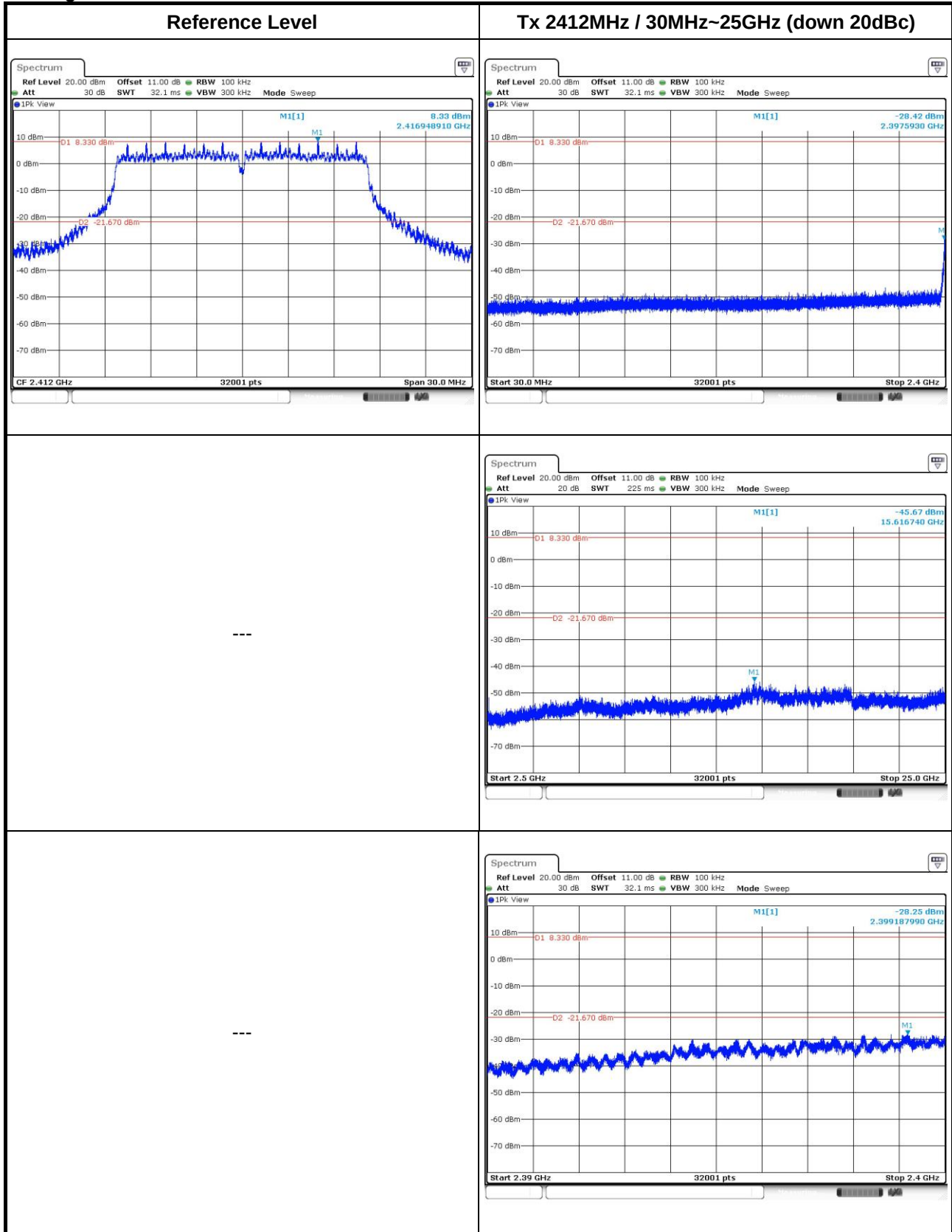
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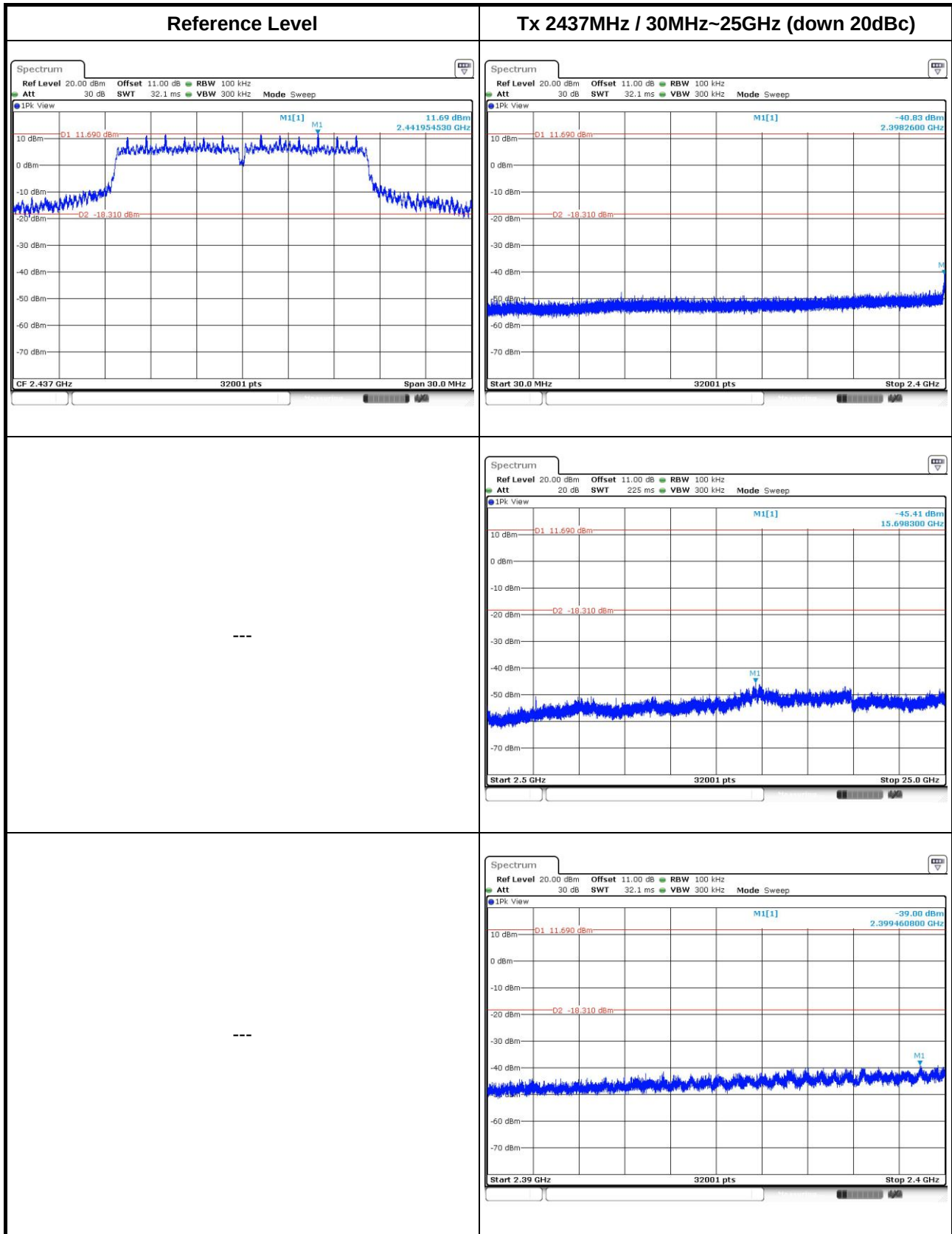


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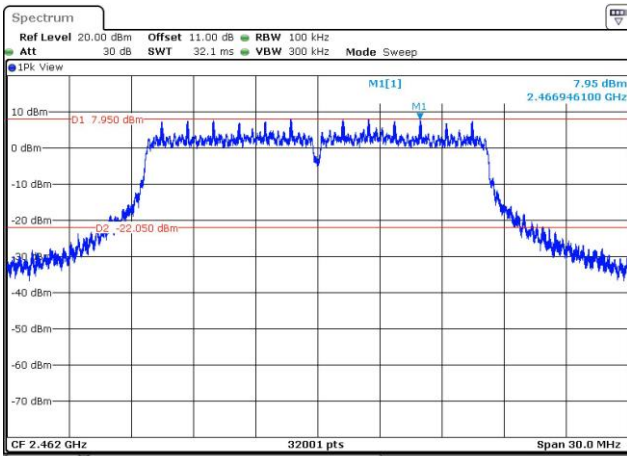


## 802.11g

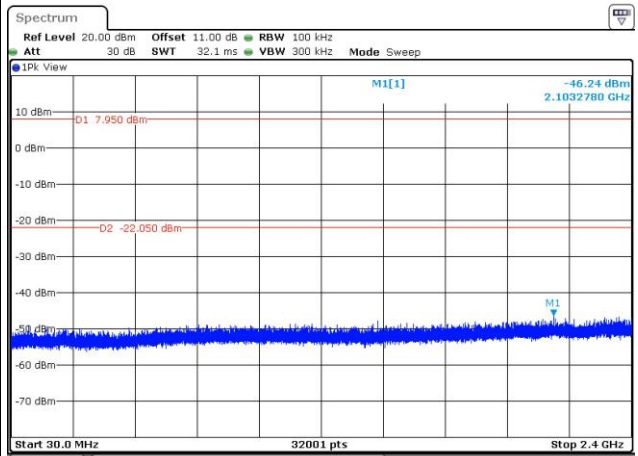




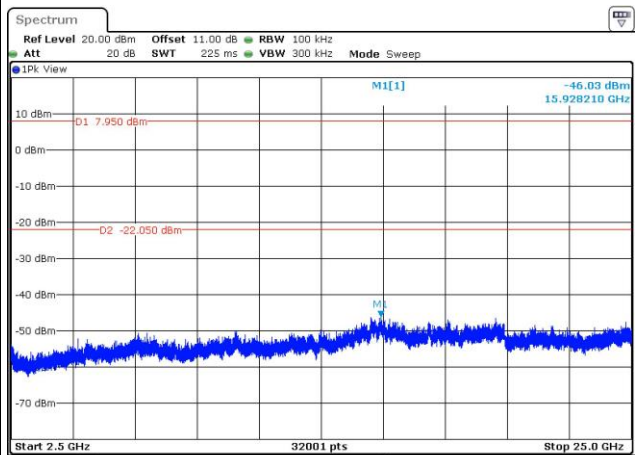
### Reference Level



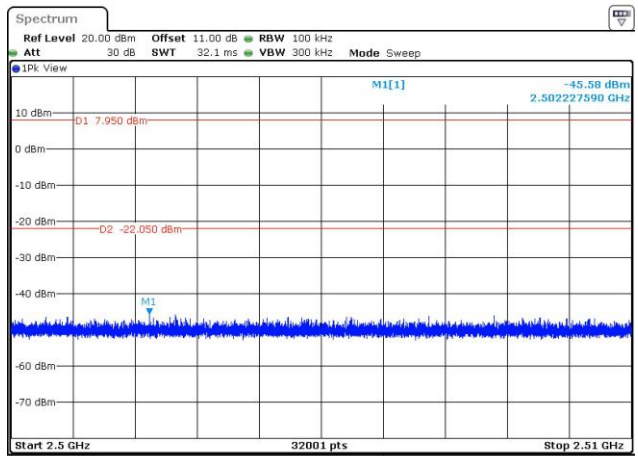
### Tx 2462MHz / 30MHz~25GHz (down 20dBc)



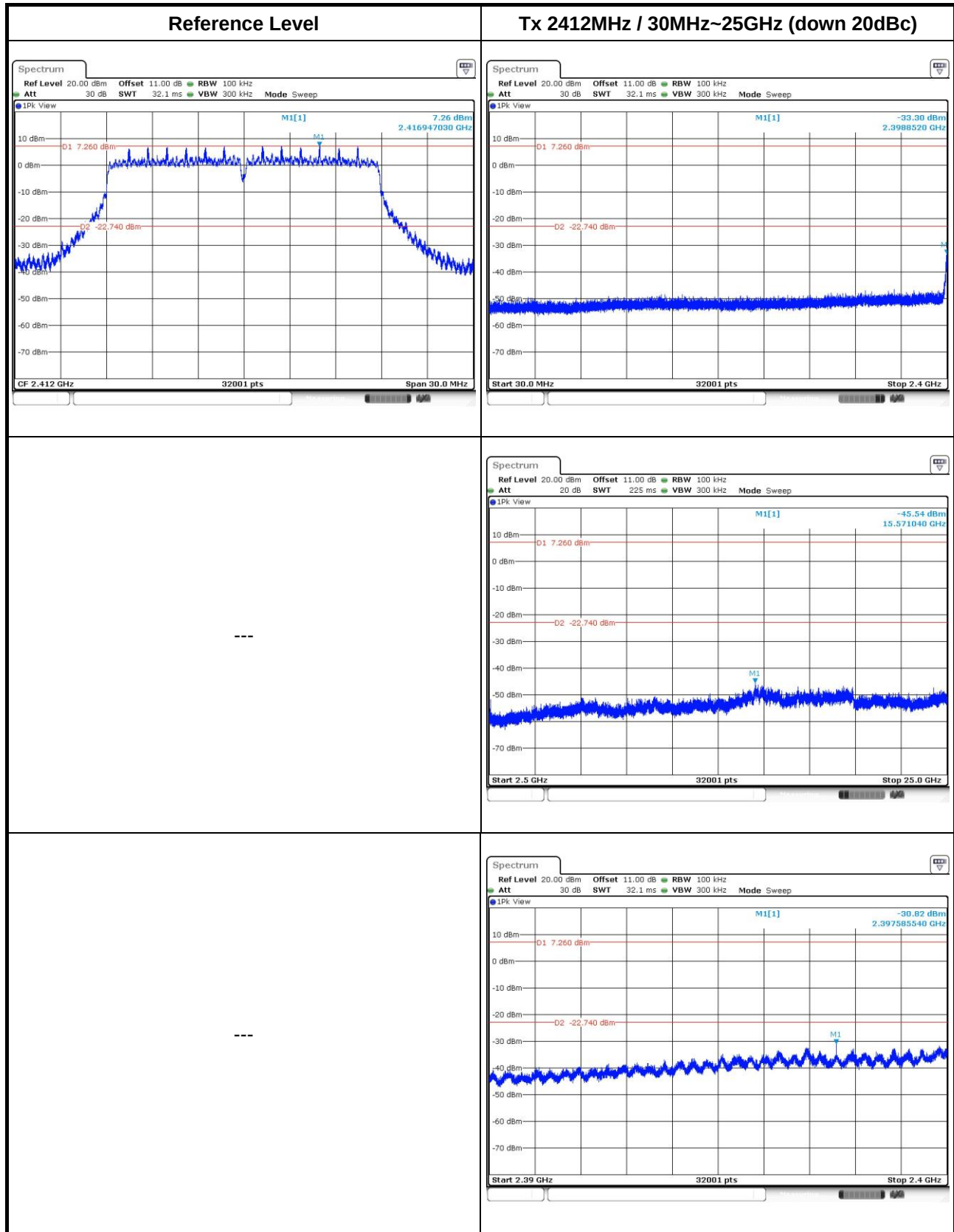
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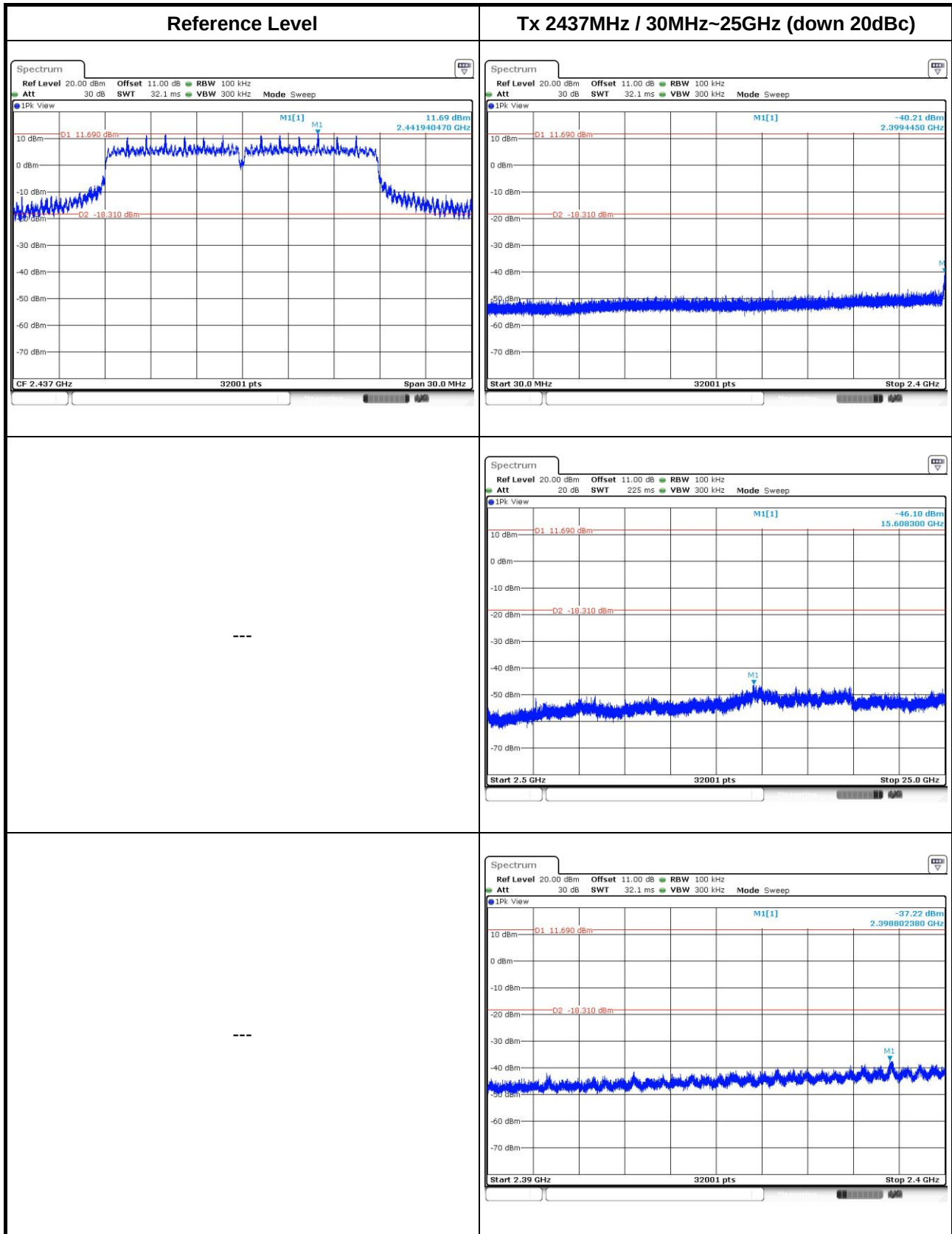


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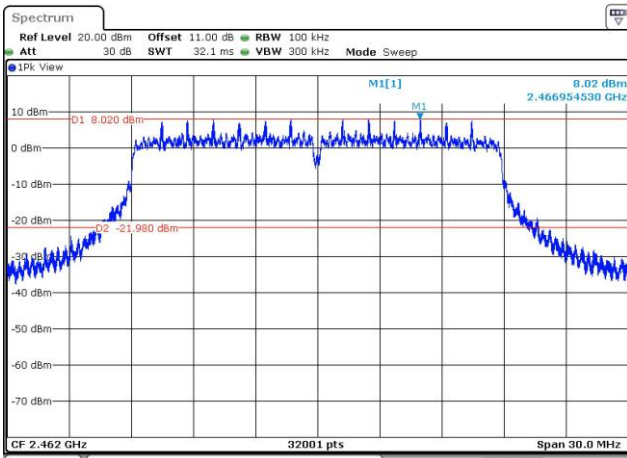


## 802.11n VHT20

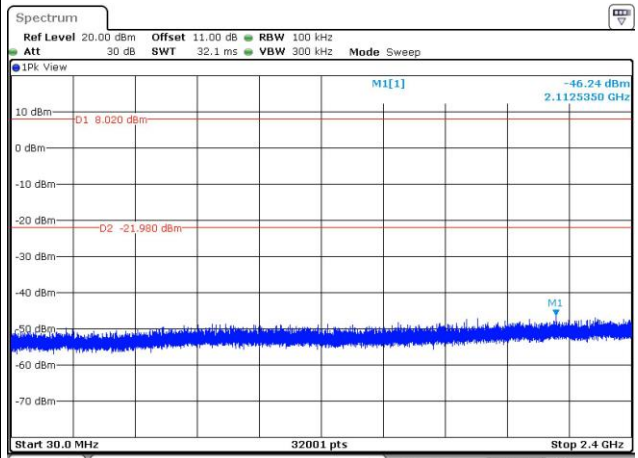




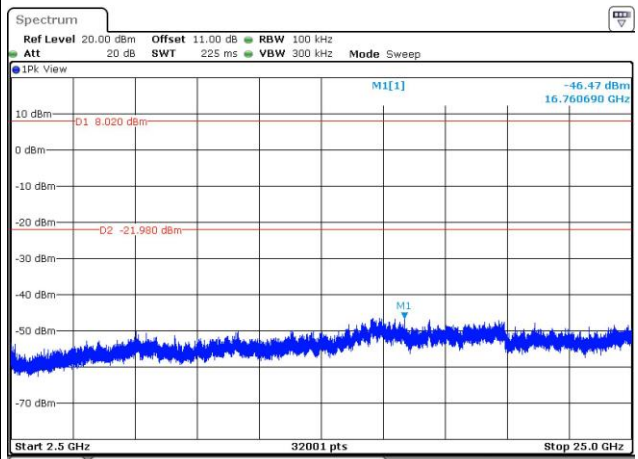
### Reference Level



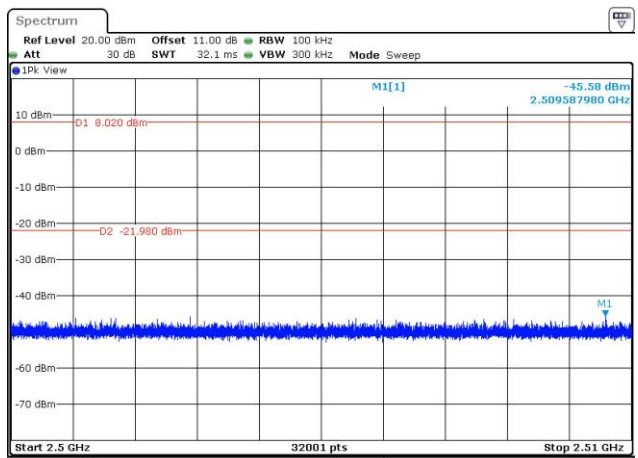
### Tx 2462MHz / 30MHz~25GHz (down 20dBc)



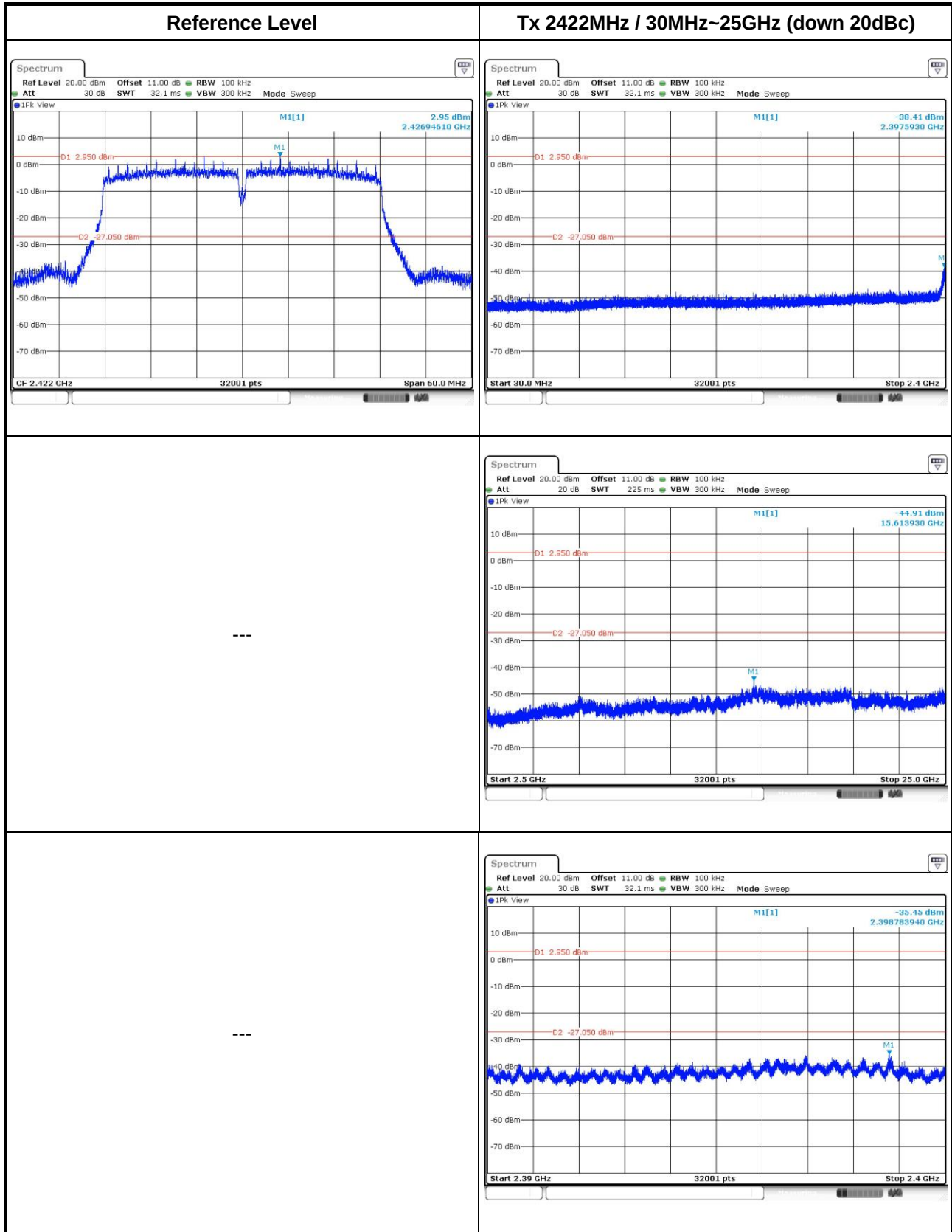
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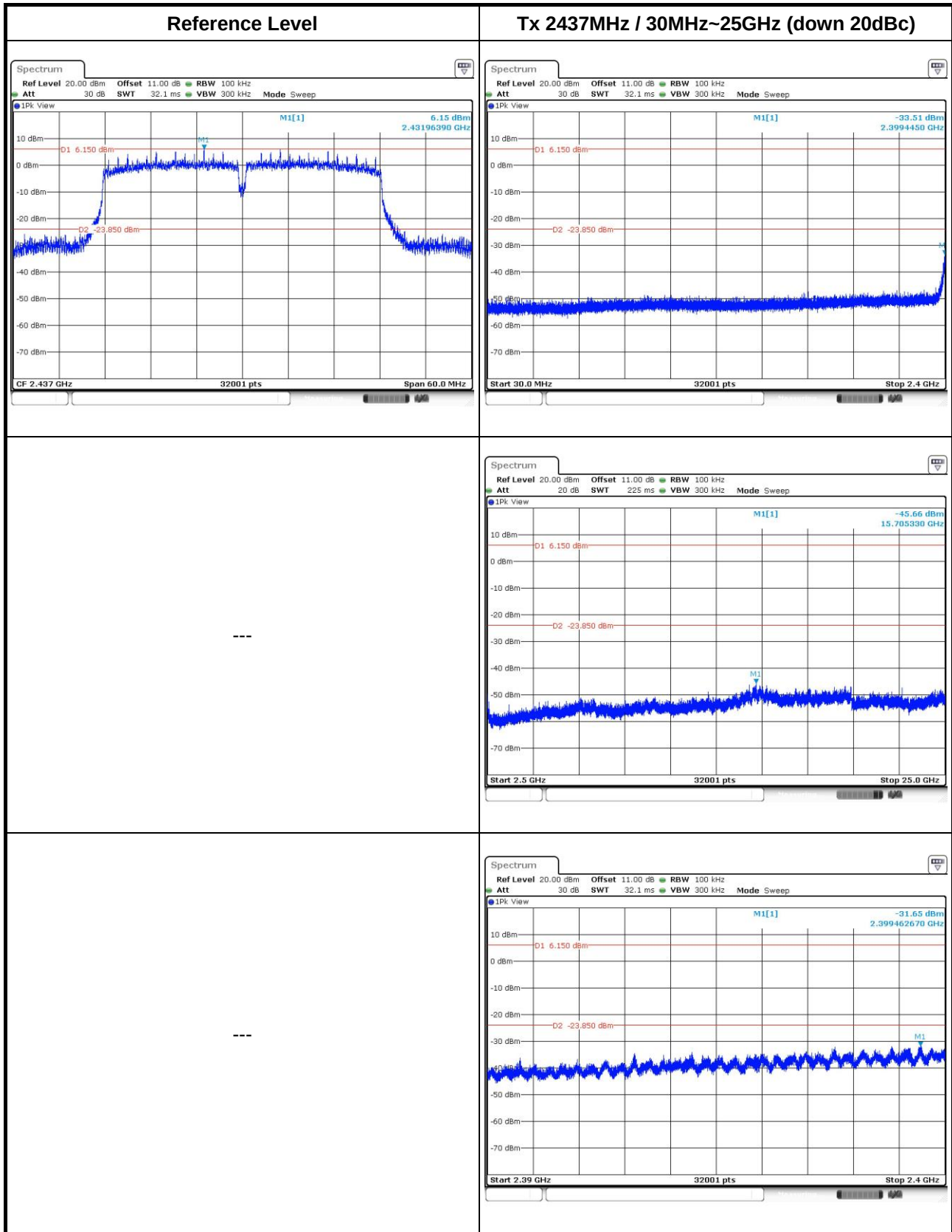


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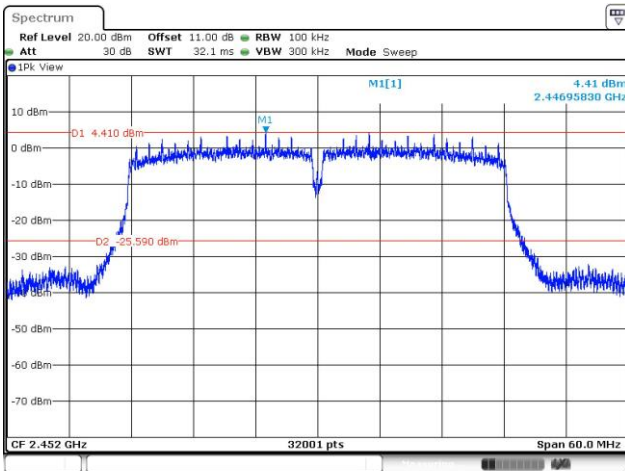


## 802.11n VHT40

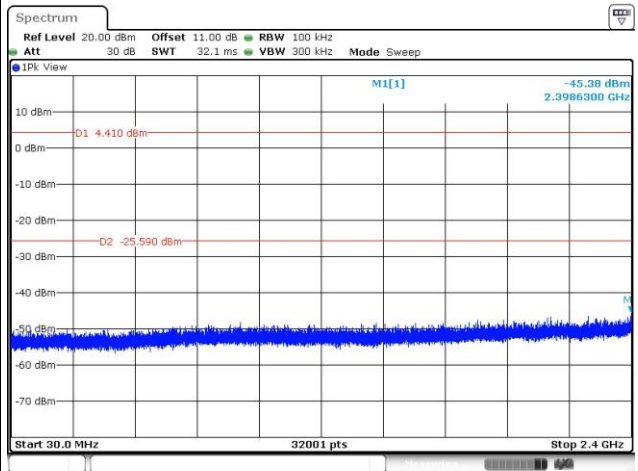




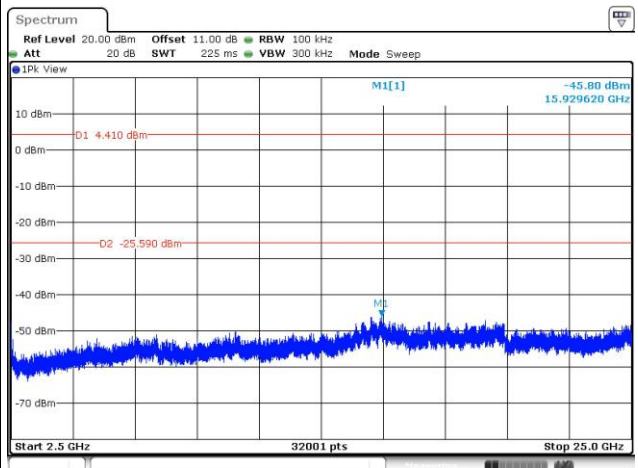
### Reference Level



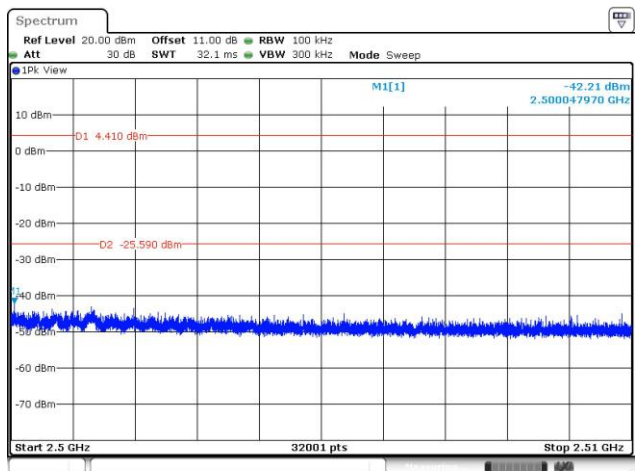
### Tx 2452MHz / 30MHz~25GHz (down 20dBc)



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## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

### **Linkou**

Tel: 886-2-2601-1640

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Kou District, New Taipei City,  
Taiwan, R.O.C.

### **Kwei Shan**

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,  
Kwei Shan District, Tao Yuan City  
333, Taiwan, R.O.C.

### **Kwei Shan Site II**

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd  
St., Kwei Shan District, Tao Yuan  
City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC\_Service@icertifi.com.tw

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