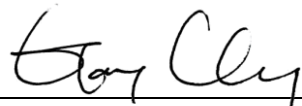


# FCC Test Report

**FCC ID** : PY313400247  
**Equipment** : Home Monitoring IP Camera  
**Model No.** : HMNC100  
**Brand Name** : NETGEAR  
**Applicant** : NETGEAR, Inc.  
**Address** : 350 East Plumeria Drive, San Jose, California  
95134, USA  
**Standard** : 47 CFR FCC Part 15.247  
**Received Date** : Feb. 25, 2014  
**Tested Date** : Mar. 05 ~ Mar. 21, 2014

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.

Approved & Reviewed by:



Gary Chang / Manager



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## Release Record

| Report No. | Version | Description   | Issued Date   |
|------------|---------|---------------|---------------|
| FR422501AC | Rev. 01 | Initial issue | Apr. 09, 2014 |

## Summary of Test Results

| FCC Rules           | Test Items                        | Measured                                                               | Result |
|---------------------|-----------------------------------|------------------------------------------------------------------------|--------|
| 15.207              | Conducted Emissions               | [dBuV]: 0.160MHz<br>56.04 (Margin -9.43dB) - QP                        | Pass   |
| 15.247(d)<br>15.209 | Radiated Emissions                | [dBuV/m at 3m]: 2483.50MHz<br>53.84 (Margin -0.16dB) - AV              | Pass   |
| 15.247(b)(3)        | Fundamental Emission Output Power | Power [dBm]:<br>11b: 23.14<br>11g: 24.69<br>HT20: 24.61<br>HT40: 20.46 | 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        |
| Note 1: RF output power specifies that Maximum Peak Conducted Output Power.<br>Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.<br>Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation. |                  |                 |                |                                    |                 |

### 1.1.2 Antenna Details

| Ant. No. | Type | Operating Frequency (MHz) / Gain (dBi) |           |           |           |           |
|----------|------|----------------------------------------|-----------|-----------|-----------|-----------|
|          |      | 2400~2483.5                            | 5150~5250 | 5250~5350 | 5470~5725 | 5725~5850 |
| 1        | PIFA | 1.66                                   | 3.12      | 0.97      | 3.29      | 2.83      |
| 2        | PIFA | 0.45                                   | 0.55      | 1.59      | 3.25      | 3.15      |

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

|                   |                      |
|-------------------|----------------------|
| Power Supply Type | 5Vdc from AC adapter |
|-------------------|----------------------|

#### 1.1.4 Accessories

| Accessories |                      |                                                                                                                                                                             |
|-------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No.         | Equipment            | Description                                                                                                                                                                 |
| 1           | AC adapter           | Brand Name: NETGEAR<br>Model Name: AD810F13<br>Power Rating:<br>I/P: 100-240Vac, 50-60Hz, 0.3A<br>O/P: 5.0Vdc, 2.0A<br>Power Line:<br>DC 3m non-shielded cable w/o core     |
| 2           | AC adapter           | Brand Name: NETGEAR<br>Model Name: 2AAM010B NA<br>Power Rating:<br>I/P: 100-240Vac, 50-60Hz, 0.35A<br>O/P: 5.0Vdc, 2.0A<br>Power Line:<br>DC 3m non-shielded cable w/o core |
| 3           | USB to LAN connector | 0.6m, shielded cable w/o core.                                                                                                                                              |

#### 1.1.5 Channel List

| Frequency band (MHz)  |                | 2400~2483.5  |                |
|-----------------------|----------------|--------------|----------------|
| 802.11 b / g / n HT20 |                | 802.11n HT40 |                |
| 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                  | Hyperterminal, V5.1 |                |                  |
|----------------------------|---------------------|----------------|------------------|
| Duty Cycle and Duty Factor | Mode                | Duty cycle (%) | Duty factor (dB) |
|                            | 11b                 | 100.00%        | 0.00             |
|                            | 11g                 | 98.29%         | 0.08             |
|                            | HT20                | 98.17%         | 0.08             |
|                            | HT40                | 95.65%         | 0.19             |

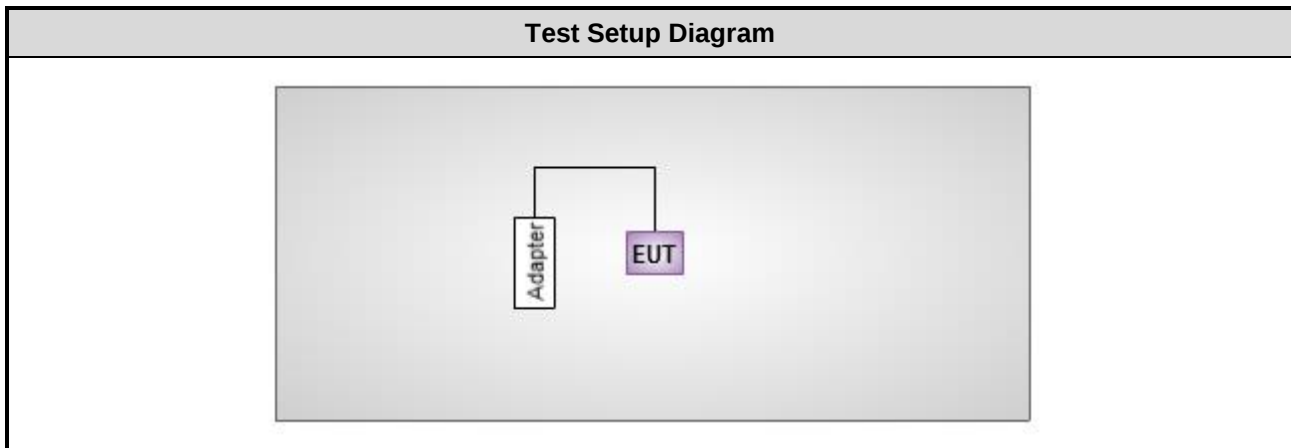
### 1.1.7 Power Setting

| Modulation Mode | Test Frequency (MHz) | Power Set |
|-----------------|----------------------|-----------|
| 11b             | 2412                 | 18        |
| 11b             | 2437                 | 17        |
| 11b             | 2462                 | 17        |
| 11g             | 2412                 | 14.5      |
| 11g             | 2437                 | 20        |
| 11g             | 2462                 | 15        |
| HT20            | 2412                 | 13        |
| HT20            | 2437                 | 20        |
| HT20            | 2462                 | 13.5      |
| HT40            | 2422                 | 8.5       |
| HT40            | 2437                 | 14        |
| HT40            | 2452                 | 8         |

## 1.2 Local Support Equipment List

N/A

## 1.3 Test Setup Chart



## 1.4 The Equipment List

|                                                                     |                               |                  |                   |                         |                          |
|---------------------------------------------------------------------|-------------------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Conducted Emission            |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | Conduction room 1 / (CO01-WS) |                  |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b>           | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| EMC Receiver                                                        | R&S                           | ESCS 30          | 100169            | Oct. 15, 2013           | Oct. 14, 2014            |
| LISN                                                                | SCHWARZBECK                   | Schwarzbeck 8127 | 8127-667          | Nov. 23, 2013           | Nov. 22, 2014            |
| LISN<br>(Support Unit)                                              | SCHWARZBECK                   | Schwarzbeck 8127 | 8127-666          | Dec. 04, 2013           | Dec. 03, 2014            |
| RF Cable-CON                                                        | Woken                         | CFD200-NL        | CFD200-NL-001     | Apr. 24, 2013           | Apr. 23, 2014            |
| 50 ohm terminal<br>(Support Unit)                                   | NA                            | 50               | 04                | Apr. 22, 2013           | Apr. 21, 2014            |
| Note: Calibration Interval of instruments listed above is one year. |                               |                  |                   |                         |                          |

|                                                                     |                            |                  |                   |                         |                          |
|---------------------------------------------------------------------|----------------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Radiated Emission          |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | 966 chamber1 / (03CH01-WS) |                  |                   |                         |                          |
| <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            | Jan. 25, 2014           | Jan. 24, 2015            |
| Receiver                                                            | R&S                        | ESR3             | 101658            | Jan. 10, 2014           | Jan. 09, 2015            |
| Bilog Antenna                                                       | SCHWARZBECK                | VULB9168         | VULB9168-522      | Jan. 02, 2014           | Jan. 01, 2015            |
| Horn Antenna<br>1G-18G                                              | SCHWARZBECK                | BBHA 9120 D      | BBHA 9120 D 1096  | Feb. 13, 2014           | Feb. 12, 2015            |
| Horn Antenna<br>18G-40G                                             | SCHWARZBECK                | BBHA 9170        | BBHA 9170517      | Dec. 27, 2013           | Dec. 26, 2014            |
| Preamplifier                                                        | Burgeon                    | BPA-530          | SN:100219         | Nov. 28, 2013           | Nov. 27, 2014            |
| Preamplifier                                                        | Agilent                    | 83017A           | MY39501308        | Dec. 16, 2013           | Dec. 15, 2014            |
| Preamplifier                                                        | EM                         | EM18G40G         | 060572            | Jun. 20, 2013           | Jun. 19, 2014            |
| RF Cable                                                            | HUBER+SUHNER               | SUCOFLEX104      | MY16014/4         | Dec. 16, 2013           | Dec. 15, 2014            |
| RF Cable                                                            | HUBER+SUHNER               | SUCOFLEX104      | MY16019/4         | Dec. 16, 2013           | Dec. 15, 2014            |
| RF Cable                                                            | HUBER+SUHNER               | SUCOFLEX104      | MY16139/4         | Dec. 16, 2013           | Dec. 15, 2014            |
| LF cable 3M                                                         | Woken                      | CFD400NL-LW      | CFD400NL-001      | Dec. 16, 2013           | Dec. 15, 2014            |
| LF cable 10M                                                        | Woken                      | CFD400NL-LW      | CFD400NL-002      | Dec. 16, 2013           | Dec. 15, 2014            |
| Note: Calibration Interval of instruments listed above is one year. |                            |                  |                   |                         |                          |

|                                                                     |                              |                  |                   |                         |                          |
|---------------------------------------------------------------------|------------------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Radiated Emission above 1GHz |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | 966 chamber 2 / (03CH02-WS)  |                  |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b>          | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Loop Antenna                                                        | R&S                          | HFH2-Z2          | 100330            | Nov. 15, 2012           | Nov. 14, 2014            |
| Note: Calibration Interval of instruments listed above is two year. |                              |                  |                   |                         |                          |

|                                                                     |                     |                  |                   |                         |                          |
|---------------------------------------------------------------------|---------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | RF Conducted        |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | (TH01-WS)           |                  |                   |                         |                          |
| <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            | Feb. 17, 2014           | Feb. 16, 2015            |
| Power Meter                                                         | Anritsu             | ML2495A          | 1241002           | Oct. 24, 2013           | Oct. 23, 2014            |
| Power Sensor                                                        | Anritsu             | MA2411B          | 1207366           | Oct. 24, 2013           | Oct. 23, 2014            |
| 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 C63.10-2009

FCC KDB 558074 D01 DTS Meas Guidance v03r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

## 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               | $\pm 35.286$ Hz |
| Conducted power         | $\pm 0.536$ dB  |
| Frequency error         | $\pm 35.286$ Hz |
| Temperature             | $\pm 0.3$ °C    |
| Conducted emission      | $\pm 2.946$ dB  |
| AC conducted emission   | $\pm 2.43$ dB   |
| Radiated emission       | $\pm 2.49$ dB   |

## 2 Test Configuration

### 2.1 Testing Condition

| Test Item          | Test Site | Ambient Condition | Tested By  |
|--------------------|-----------|-------------------|------------|
| AC Conduction      | CO01-WS   | 21°C / 66%        | Peter Lin  |
| Radiated Emissions | 03CH01-WS | 20°C / 62%        | Haru Yang  |
| RF Conducted       | TH01-WS   | 22°C / 64%        | Felix Sung |

➤ FCC site registration No.: 657002

➤ 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               | 11g             | 2437                 | 6 Mbps                 | ---                |
| Radiated Emissions ≤1GHz          | 11g             | 2437                 | 6 Mbps                 | ---                |
| Radiated Emissions >1GHz          | 11b             | 2412 / 2437 / 2462   | 1 Mbps                 | ---                |
| Fundamental Emission Output Power | 11g             | 2412 / 2437 / 2462   | 6 Mbps                 |                    |
| 6dB bandwidth                     | HT20            | 2412 / 2437 / 2462   | MCS 0                  |                    |
| Power spectral density            | HT40            | 2422 / 2437 / 2452   | MCS 0                  |                    |

**NOTE:**

1. 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.
2. 2 adapters are used for this device. After pretest, AC adapter 2 (model: 2AAM010B NA) was found as the worst case and was record in this test report.

### 3 Transmitter Test Results

#### 3.1 Conducted Emissions

##### 3.1.1 Limit of Conducted Emissions

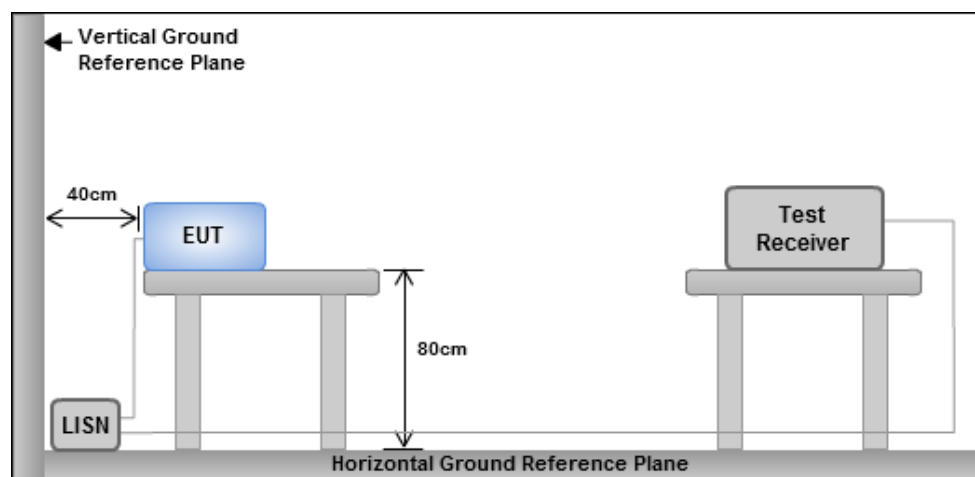
| Conducted Emissions Limit |            |           |
|---------------------------|------------|-----------|
| Frequency Emission (MHz)  | Quasi-Peak | Average   |
| 0.15-0.5                  | 66 - 56 *  | 56 - 46 * |
| 0.5-5                     | 56         | 46        |
| 5-30                   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

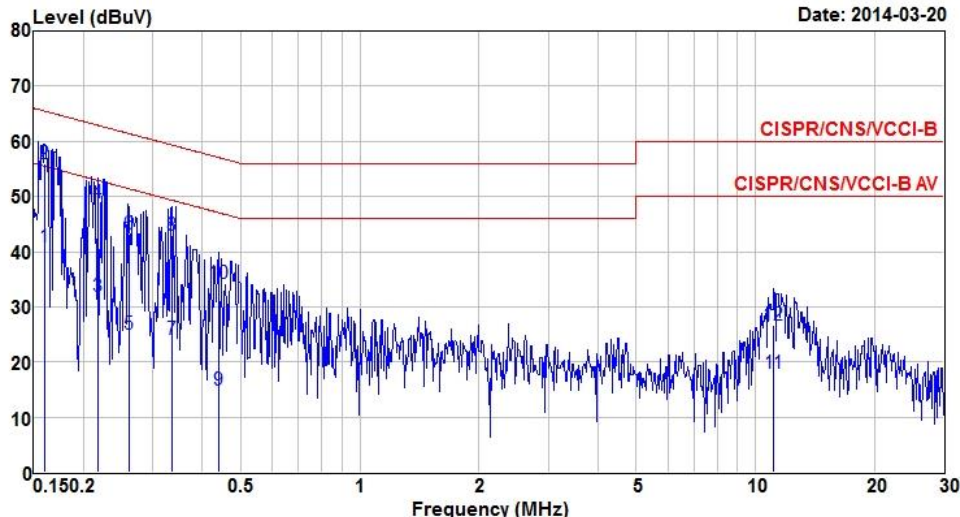


- Note: 1. Support units were connected to second LISN.  
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.4 Test Result of Conducted Emissions

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



The graph shows the conducted emission level in dBuV versus frequency in MHz. The y-axis ranges from 0 to 80 dBuV, and the x-axis ranges from 0.15 to 30 MHz. A blue line represents the measured emission, which is noisy and generally decreases with frequency. Two red lines represent the CISPR/CNS/VCCI-B and CISPR/CNS/VCCI-B AV limits. The measured level is below the limits for most of the frequency range.

Date: 2014-03-20

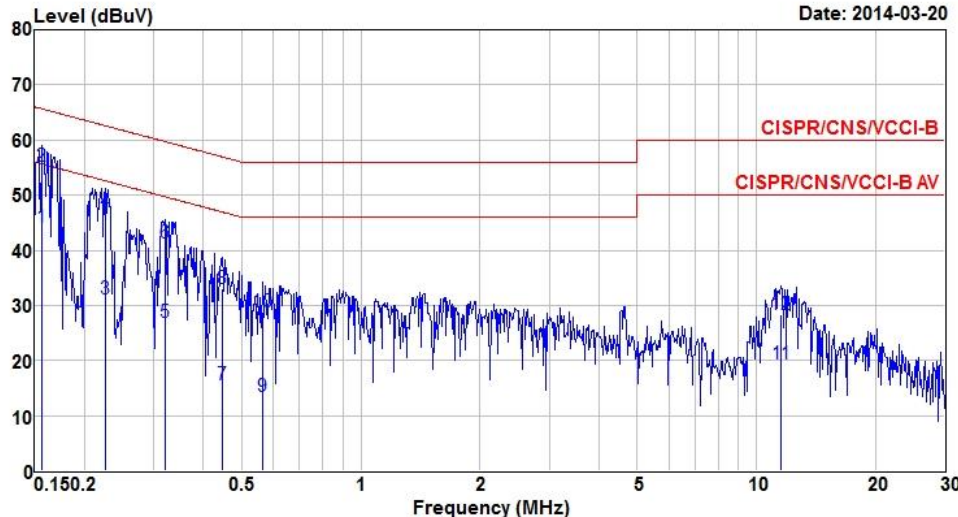
|    | Freq<br>MHz | Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1  | 0.160       | 40.87         | 55.47                 | -14.60              | 40.37                 | 0.41                 | 0.09                | Average |
| 2* | 0.160       | 56.04         | 65.47                 | -9.43               | 55.54                 | 0.41                 | 0.09                | QP      |
| 3  | 0.217       | 31.95         | 52.92                 | -20.97              | 31.36                 | 0.43                 | 0.16                | Average |
| 4  | 0.217       | 48.81         | 62.92                 | -14.11              | 48.22                 | 0.43                 | 0.16                | QP      |
| 5  | 0.260       | 25.13         | 51.43                 | -26.30              | 24.54                 | 0.46                 | 0.13                | Average |
| 6  | 0.260       | 43.20         | 61.43                 | -18.23              | 42.61                 | 0.46                 | 0.13                | QP      |
| 7  | 0.334       | 24.13         | 49.35                 | -25.22              | 23.55                 | 0.50                 | 0.08                | Average |
| 8  | 0.334       | 42.98         | 59.35                 | -16.37              | 42.40                 | 0.50                 | 0.08                | QP      |
| 9  | 0.440       | 14.95         | 47.07                 | -32.12              | 14.35                 | 0.55                 | 0.05                | Average |
| 10 | 0.440       | 34.18         | 57.07                 | -22.89              | 33.58                 | 0.55                 | 0.05                | QP      |
| 11 | 11.139      | 17.89         | 50.00                 | -32.11              | 16.01                 | 1.76                 | 0.12                | Average |
| 12 | 11.139      | 26.74         | 60.00                 | -33.26              | 24.86                 | 1.76                 | 0.12                | QP      |

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

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

Level (dBuV)

Date: 2014-03-20



Freq

Level

Limit

Over

Read

LISN

cable

MHz

dBuV

Line

Limit

Level

factor

loss

Remark

-----

-----

-----

-----

-----

-----

-----

-----

1

0.156

44.17

55.65

-11.48

43.60

0.49

0.08

Average

2\*

0.156

55.15

65.65

-10.50

54.58

0.49

0.08

QP

3

0.226

31.08

52.61

-21.53

30.39

0.53

0.16

Average

4

0.226

46.97

62.61

-15.64

46.28

0.53

0.16

QP

5

0.320

26.99

49.71

-22.72

26.32

0.58

0.09

Average

6

0.320

41.42

59.71

-18.29

40.75

0.58

0.09

QP

7

0.447

15.69

46.93

-31.24

15.01

0.63

0.05

Average

8

0.447

33.15

56.93

-23.78

32.47

0.63

0.05

QP

9

0.564

13.40

46.00

-32.60

12.67

0.68

0.05

Average

10

0.564

28.89

56.00

-27.11

28.16

0.68

0.05

QP

11

11.559

19.45

50.00

-30.55

17.43

1.90

0.12

Average

12

11.559

28.35

60.00

-31.65

26.33

1.90

0.12

QP

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

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

## 3.2 6dB and Occupied Bandwidth

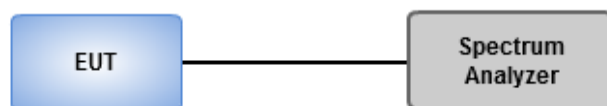
### 3.2.1 Limit of 6dB Bandwidth

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

### 3.2.2 Test Procedures

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.

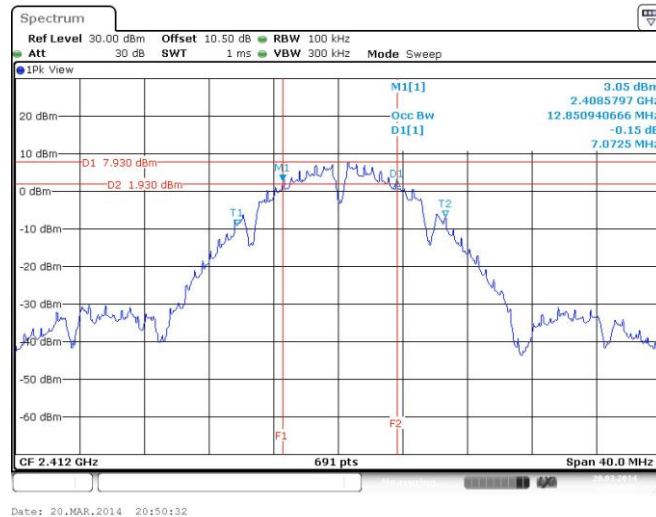
### 3.2.3 Test Setup



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

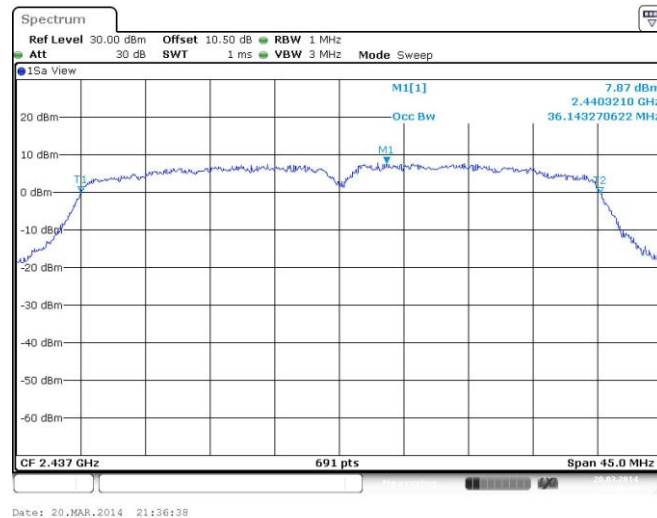
| Modulation Mode | N <sub>TX</sub> | Freq. (MHz) | 6dB Bandwidth (MHz) |         |         |         | Limit (kHz) |
|-----------------|-----------------|-------------|---------------------|---------|---------|---------|-------------|
|                 |                 |             | Chain 0             | Chain 1 | Chain 2 | Chain 3 |             |
| 11b             | 2               | 2412        | 7.25                | 7.07    | ---     | ---     | 500         |
| 11b             | 2               | 2437        | 7.13                | 7.07    | ---     | ---     | 500         |
| 11b             | 2               | 2462        | 7.07                | 7.07    | ---     | ---     | 500         |
| 11g             | 2               | 2412        | 16.35               | 16.35   | ---     | ---     | 500         |
| 11g             | 2               | 2437        | 16.00               | 15.88   | ---     | ---     | 500         |
| 11g             | 2               | 2462        | 16.35               | 16.35   | ---     | ---     | 500         |
| HT20            | 2               | 2412        | 17.16               | 16.81   | ---     | ---     | 500         |
| HT20            | 2               | 2437        | 16.81               | 16.52   | ---     | ---     | 500         |
| HT20            | 2               | 2462        | 17.16               | 17.57   | ---     | ---     | 500         |
| HT40            | 2               | 2422        | 35.13               | 35.13   | ---     | ---     | 500         |
| HT40            | 2               | 2437        | 35.13               | 35.13   | ---     | ---     | 500         |
| HT40            | 2               | 2452        | 35.13               | 35.13   | ---     | ---     | 500         |

#### Worst Plots



| Modulation Mode | N <sub>TX</sub> | Freq. (MHz) | 99% Occupied Bandwidth (MHz) |         |         |         |
|-----------------|-----------------|-------------|------------------------------|---------|---------|---------|
|                 |                 |             | Chain 0                      | Chain 1 | Chain 2 | Chain 3 |
| 11b             | 2               | 2412        | 12.45                        | 12.88   | ---     | ---     |
| 11b             | 2               | 2437        | 12.55                        | 12.70   | ---     | ---     |
| 11b             | 2               | 2462        | 12.45                        | 12.70   | ---     | ---     |
| 11g             | 2               | 2412        | 16.64                        | 16.61   | ---     | ---     |
| 11g             | 2               | 2437        | 17.26                        | 16.97   | ---     | ---     |
| 11g             | 2               | 2462        | 16.61                        | 16.57   | ---     | ---     |
| HT20            | 2               | 2412        | 17.73                        | 17.73   | ---     | ---     |
| HT20            | 2               | 2437        | 17.98                        | 17.91   | ---     | ---     |
| HT20            | 2               | 2462        | 17.73                        | 17.69   | ---     | ---     |
| HT40            | 2               | 2422        | 36.08                        | 36.01   | ---     | ---     |
| HT40            | 2               | 2437        | 36.14                        | 36.08   | ---     | ---     |
| HT40            | 2               | 2452        | 36.08                        | 36.01   | ---     | ---     |

### Worst Plots



### 3.3 RF Output Power

#### 3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

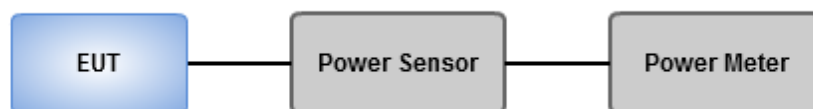
- ☒ Antenna gain  $\leq 6\text{dBi}$ , no any corresponding reduction is in output power limit.
- ☐ Antenna gain  $> 6\text{dBi}$ 
  - ☐ Non Fixed, point to point operations.  
The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the 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.

Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations ,no any corresponding reduction is in transmitter peak output power

#### 3.3.2 Test Procedures

- ☒ Maximum Peak Conducted Output Power
  - ☐ **Spectrum analyzer**
    1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
    2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
    3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.
  - ☒ **Power meter**
    1. A broadband Peak 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.
- ☒ Maximum Conducted Output Power ( For reference only )
  - ☒ **Power meter**
    1. A broadband Average 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) | Peak conducted output power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Limit (dBm) |
|-----------------|-----------------|-------------|-----------------------------------|---------|---------|---------|------------------|-------------------|-------------|
|                 |                 |             | Chain 0                           | Chain 1 | Chain 2 | Chain 3 |                  |                   |             |
| 11b             | 2               | 2412        | 19.91                             | 20.33   | ---     | ---     | 205.844          | 23.14             | 30          |
| 11b             | 2               | 2437        | 19.94                             | 20.12   | ---     | ---     | 201.430          | 23.04             | 30          |
| 11b             | 2               | 2462        | 19.83                             | 19.85   | ---     | ---     | 192.766          | 22.85             | 30          |
| 11g             | 2               | 2412        | 17.82                             | 17.31   | ---     | ---     | 114.361          | 20.58             | 30          |
| 11g             | 2               | 2437        | 22.11                             | 21.21   | ---     | ---     | 294.684          | 24.69             | 30          |
| 11g             | 2               | 2462        | 18.17                             | 17.11   | ---     | ---     | 117.019          | 20.68             | 30          |
| HT20            | 2               | 2412        | 15.61                             | 16.17   | ---     | ---     | 77.791           | 18.91             | 30          |
| HT20            | 2               | 2437        | 21.52                             | 21.68   | ---     | ---     | 289.137          | 24.61             | 30          |
| HT20            | 2               | 2462        | 16.79                             | 15.82   | ---     | ---     | 85.947           | 19.34             | 30          |
| HT40            | 2               | 2422        | 12.41                             | 12.49   | ---     | ---     | 35.160           | 15.46             | 30          |
| HT40            | 2               | 2437        | 17.98                             | 16.84   | ---     | ---     | 111.112          | 20.46             | 30          |
| HT40            | 2               | 2452        | 12.80                             | 11.34   | ---     | ---     | 32.669           | 15.14             | 30          |

| Modulation Mode | N <sub>TX</sub> | Freq. (MHz) | Conducted (average) output power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Limit (dBm) |
|-----------------|-----------------|-------------|----------------------------------------|---------|---------|---------|------------------|-------------------|-------------|
|                 |                 |             | Chain 0                                | Chain 1 | Chain 2 | Chain 3 |                  |                   |             |
| 11b             | 2               | 2412        | 17.06                                  | 18.22   | ---     | ---     | 117.190          | 20.69             | 30          |
| 11b             | 2               | 2437        | 17.02                                  | 17.15   | ---     | ---     | 102.230          | 20.10             | 30          |
| 11b             | 2               | 2462        | 17.01                                  | 17.03   | ---     | ---     | 100.700          | 20.03             | 30          |
| 11g             | 2               | 2412        | 12.17                                  | 11.80   | ---     | ---     | 31.617           | 15.00             | 30          |
| 11g             | 2               | 2437        | 18.18                                  | 17.10   | ---     | ---     | 117.052          | 20.68             | 30          |
| 11g             | 2               | 2462        | 12.30                                  | 11.49   | ---     | ---     | 31.075           | 14.92             | 30          |
| HT20            | 2               | 2412        | 10.54                                  | 10.16   | ---     | ---     | 21.699           | 13.36             | 30          |
| HT20            | 2               | 2437        | 17.39                                  | 17.44   | ---     | ---     | 110.290          | 20.43             | 30          |
| HT20            | 2               | 2462        | 11.05                                  | 10.12   | ---     | ---     | 23.015           | 13.62             | 30          |
| HT40            | 2               | 2422        | 7.56                                   | 7.68    | ---     | ---     | 11.563           | 10.63             | 30          |
| HT40            | 2               | 2437        | 13.35                                  | 12.32   | ---     | ---     | 38.688           | 15.88             | 30          |
| HT40            | 2               | 2452        | 7.85                                   | 6.57    | ---     | ---     | 10.635           | 10.27             | 30          |

Note: Conducted average output power is for reference only.

### 3.4 Power Spectral Density

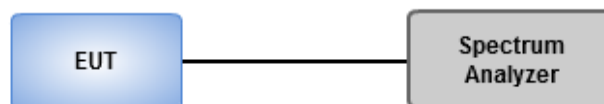
#### 3.4.1 Limit of Power Spectral Density

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

#### 3.4.2 Test Procedures

- ☒ Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.
  1. Set the RBW = 3kHz, VBW = 10kHz.
  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.
- ☐ Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.
  1. Set the RBW = 100kHz, VBW = 300 kHz.
  2. Detector = RMS, Sweep time = auto couple.
  3. Set the sweep time to:  $\geq 10 \times (\text{number of measurement points in sweep}) \times (\text{maximum data rate per stream})$ .
  4. Perform the measurement over a single sweep.
  5. Use the peak marker function to determine the maximum amplitude level.

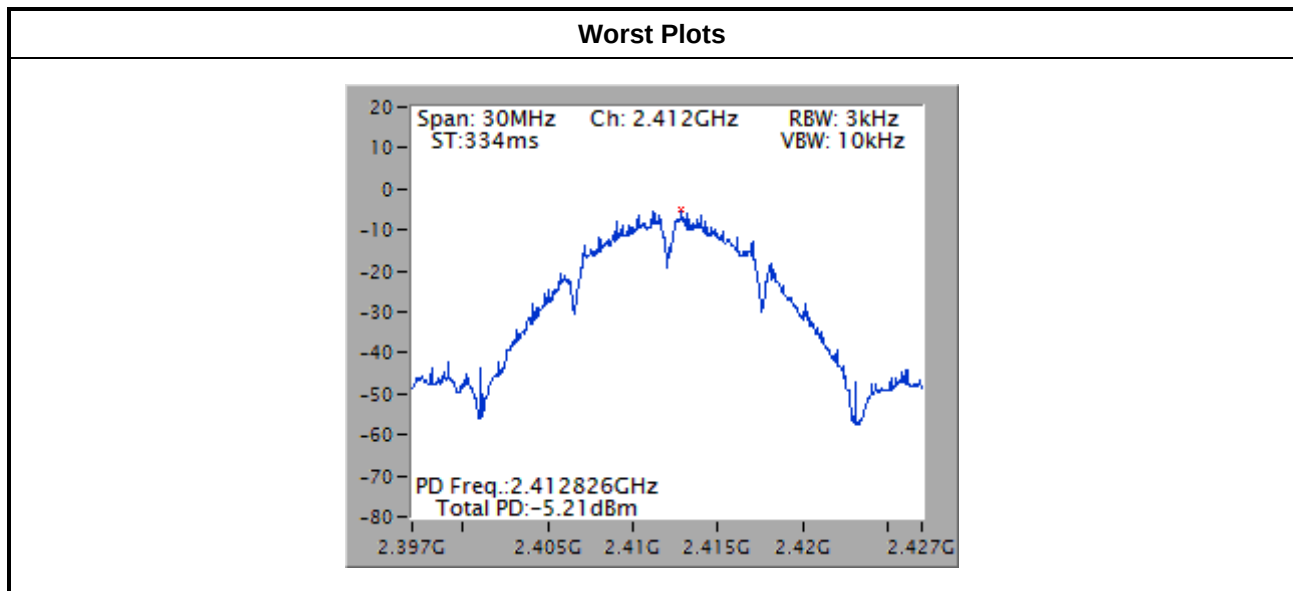
#### 3.4.3 Test Setup



### 3.4.4 Test Result of Power Spectral Density

| Modulation Mode | N <sub>TX</sub> | Freq. (MHz) | Total Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) |
|-----------------|-----------------|-------------|-----------------------------------------|------------------|
| 11b             | 2               | 2412        | -5.21                                   | 8                |
| 11b             | 2               | 2437        | -5.52                                   | 8                |
| 11b             | 2               | 2462        | -5.54                                   | 8                |
| 11g             | 2               | 2412        | -13.41                                  | 8                |
| 11g             | 2               | 2437        | -7.04                                   | 8                |
| 11g             | 2               | 2462        | -12.83                                  | 8                |
| HT20            | 2               | 2412        | -14.37                                  | 8                |
| HT20            | 2               | 2437        | -6.21                                   | 8                |
| HT20            | 2               | 2462        | -13.29                                  | 8                |
| HT40            | 2               | 2422        | -18.59                                  | 8                |
| HT40            | 2               | 2437        | -13.73                                  | 8                |
| HT40            | 2               | 2452        | -18.57                                  | 8                |

Note: Test result for HT20 / HT40 is bin-by-bin summing measured value of each TX port.



### 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

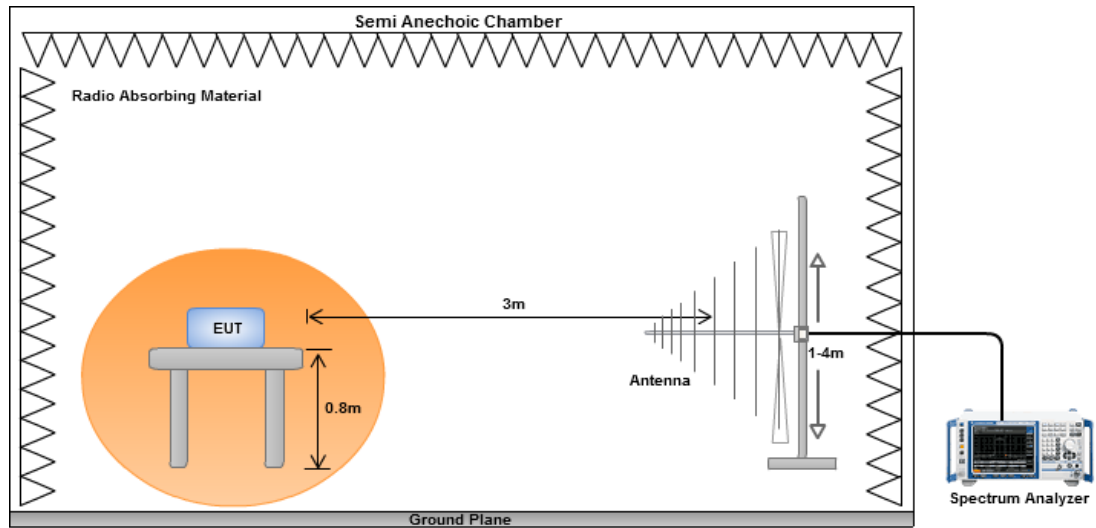
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
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:

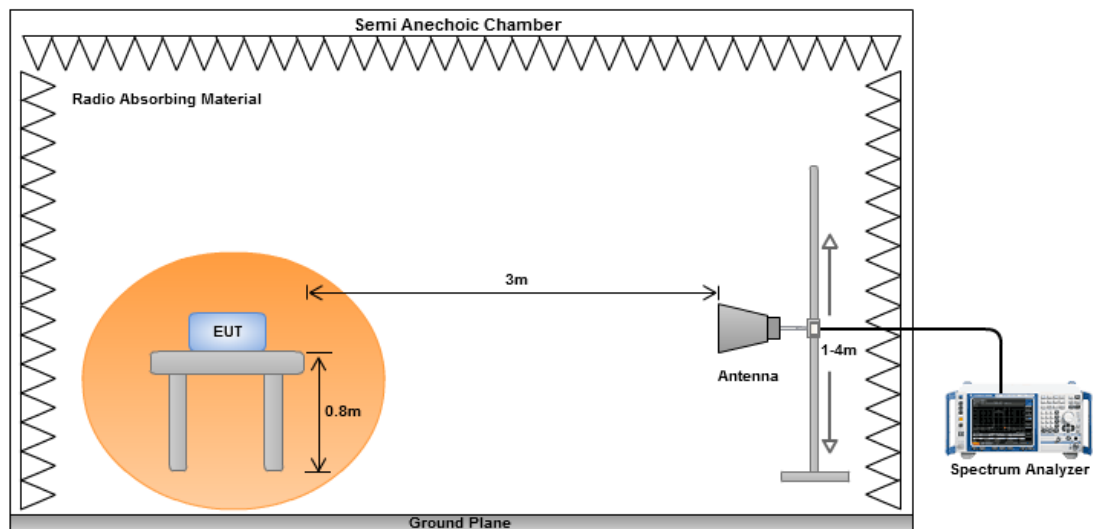
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

### 3.5.3 Test Setup

#### Radiated Emissions below 1 GHz



#### Radiated Emissions above 1 GHz



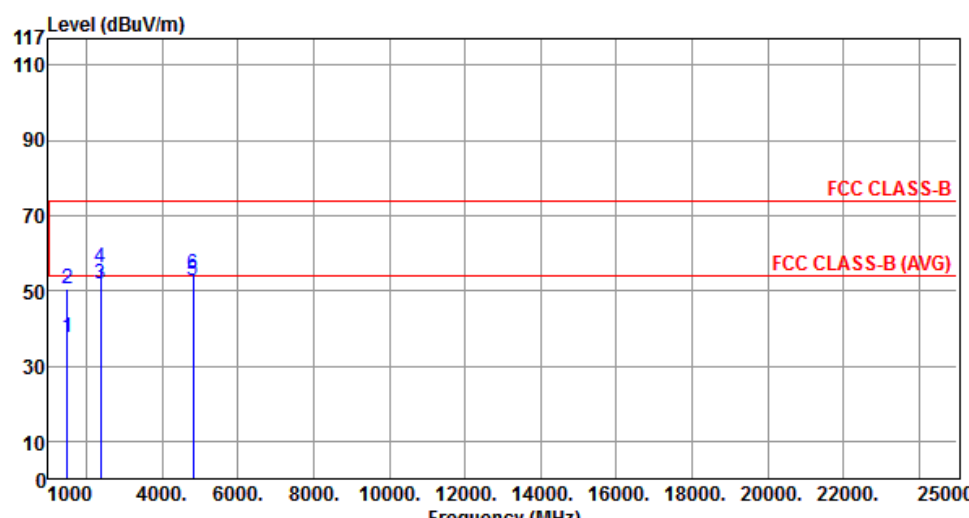
### 3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

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| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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(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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|            |                  |      |



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

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

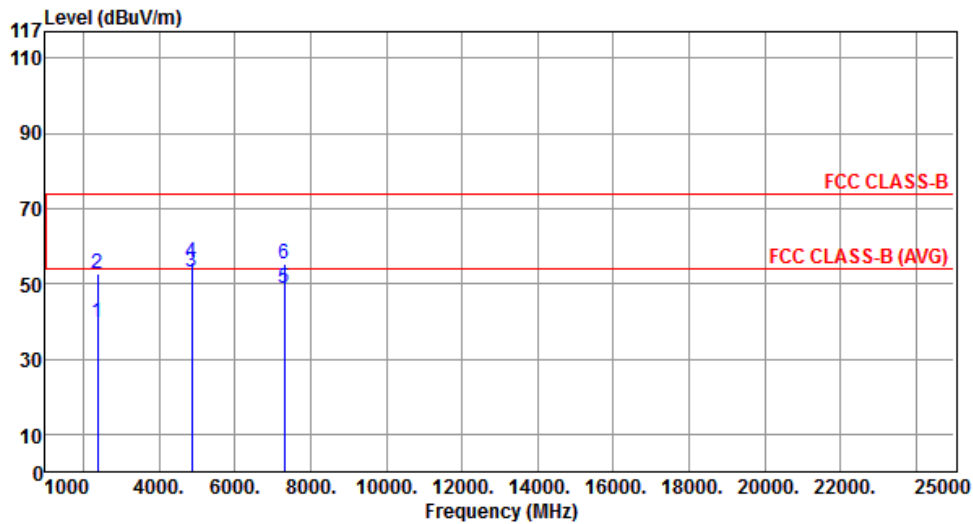
  


|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 1500.00      | 37.53                       | 54.00           | -16.47       | 44.66                 | -7.13        | Average | ---               | ---                  |
| 2 | 1500.00      | 50.37                       | 74.00           | -23.63       | 57.50                 | -7.13        | Peak    | ---               | ---                  |
| 3 | 2390.00      | 51.76                       | 54.00           | -2.24        | 55.44                 | -3.68        | Average | ---               | ---                  |
| 4 | 2390.00      | 56.32                       | 74.00           | -17.68       | 60.00                 | -3.68        | Peak    | ---               | ---                  |
| 5 | 4824.00      | 52.50                       | 54.00           | -1.50        | 47.51                 | 4.99         | Average | ---               | ---                  |
| 6 | 4824.00      | 54.60                       | 74.00           | -19.40       | 49.61                 | 4.99         | 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).

| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 11b          | Test Freq. (MHz)            | 2412            |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------|-----------------|--------------|-----------------------|-----------------------------|-----------------|-------------------|-----------------------|--------------|--------|-------------------|----------------------|---|---------|-------|-------|--------|-------|-------|---------|-----|-----|---|---------|-------|-------|--------|-------|-------|------|-----|-----|---|---------|-------|-------|--------|-------|-------|---------|-----|-----|---|---------|-------|-------|--------|-------|-------|------|-----|-----|---|---------|-------|-------|-------|-------|------|---------|-----|-----|---|---------|-------|-------|--------|-------|------|------|-----|-----|
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Vertical     |                             |                 |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| <div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div>117</div><div>110</div><div>90</div><div>70</div><div>50</div><div>30</div><div>10</div><div>0</div></div></div><div><div><div><div>1000</div><div>4000</div><div>6000</div><div>8000</div><div>10000</div><div>12000</div><div>14000</div><div>16000</div><div>18000</div><div>20000</div><div>22000</div><div>25000</div></div></div><div>Frequency (MHz)</div></div></div><div><div><div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div></div></div><div><div><div><div><div>FCC CLASS-B</div><div>FCC CLASS-B (AVG)</div></div></div></div></div></div><table><tr><th></th><th>Freq.<br/>MHz</th><th>Emission<br/>level<br/>dBuV/m</th><th>Limit<br/>dBuV/m</th><th>Margin<br/>dB</th><th>SA<br/>reading<br/>dBuV</th><th>Factor<br/>dB</th><th>Remark</th><th>ANT<br/>High<br/>cm</th><th>Turn<br/>Table<br/>deg</th></tr><tr><td>1</td><td>1500.00</td><td>34.46</td><td>54.00</td><td>-19.54</td><td>41.59</td><td>-7.13</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>1500.00</td><td>47.85</td><td>74.00</td><td>-26.15</td><td>54.98</td><td>-7.13</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>2390.00</td><td>43.64</td><td>54.00</td><td>-10.36</td><td>47.32</td><td>-3.68</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>4</td><td>2390.00</td><td>54.00</td><td>74.00</td><td>-20.00</td><td>57.68</td><td>-3.68</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>4824.00</td><td>53.52</td><td>54.00</td><td>-0.48</td><td>48.53</td><td>4.99</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>6</td><td>4824.00</td><td>55.19</td><td>74.00</td><td>-18.81</td><td>50.20</td><td>4.99</td><td>Peak</td><td>---</td><td>---</td></tr></table></div></div></div></div></div> |              |                             |                 |              | 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 | 1500.00 | 34.46 | 54.00 | -19.54 | 41.59 | -7.13 | Average | --- | --- | 2 | 1500.00 | 47.85 | 74.00 | -26.15 | 54.98 | -7.13 | Peak | --- | --- | 3 | 2390.00 | 43.64 | 54.00 | -10.36 | 47.32 | -3.68 | Average | --- | --- | 4 | 2390.00 | 54.00 | 74.00 | -20.00 | 57.68 | -3.68 | Peak | --- | --- | 5 | 4824.00 | 53.52 | 54.00 | -0.48 | 48.53 | 4.99 | Average | --- | --- | 6 | 4824.00 | 55.19 | 74.00 | -18.81 | 50.20 | 4.99 | Peak | --- | --- |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1500.00      | 34.46                       | 54.00           | -19.54       | 41.59                 | -7.13                       | Average         | ---               | ---                   |              |        |                   |                      |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1500.00      | 47.85                       | 74.00           | -26.15       | 54.98                 | -7.13                       | Peak            | ---               | ---                   |              |        |                   |                      |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390.00      | 43.64                       | 54.00           | -10.36       | 47.32                 | -3.68                       | Average         | ---               | ---                   |              |        |                   |                      |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390.00      | 54.00                       | 74.00           | -20.00       | 57.68                 | -3.68                       | Peak            | ---               | ---                   |              |        |                   |                      |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4824.00      | 53.52                       | 54.00           | -0.48        | 48.53                 | 4.99                        | Average         | ---               | ---                   |              |        |                   |                      |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4824.00      | 55.19                       | 74.00           | -18.81       | 50.20                 | 4.99                        | Peak            | ---               | ---                   |              |        |                   |                      |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| <div>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)<br/>*Factor includes antenna factor , cable loss and amplifier gain<br/>Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                             |                 |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |

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



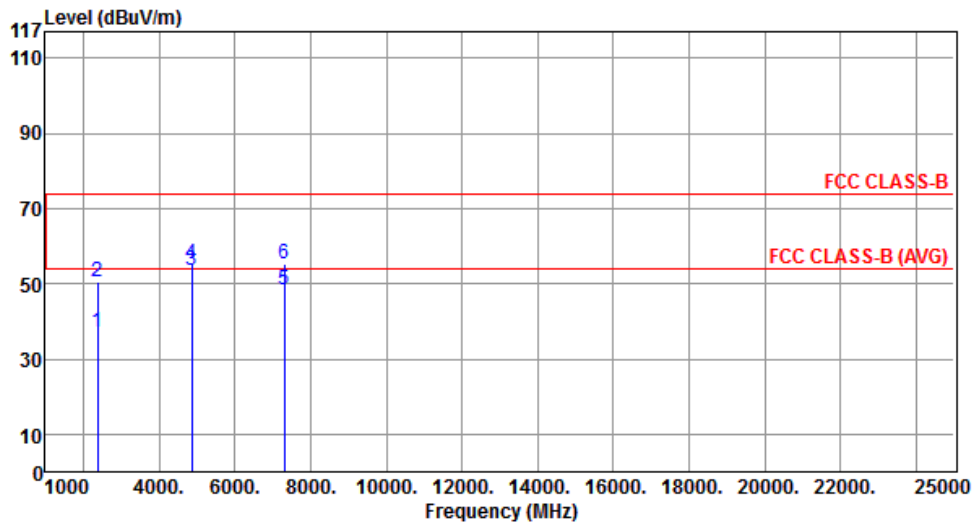
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2386.00      | 39.52                       | 54.00           | -14.48       | 43.22                 | -3.70        | Average | ---               | ---                  |
| 2 | 2386.00      | 52.85                       | 74.00           | -21.15       | 56.55                 | -3.70        | Peak    | ---               | ---                  |
| 3 | 4874.00      | 53.18                       | 54.00           | -0.82        | 48.08                 | 5.10         | Average | ---               | ---                  |
| 4 | 4874.00      | 55.71                       | 74.00           | -18.29       | 50.61                 | 5.10         | Peak    | ---               | ---                  |
| 5 | 7311.00      | 48.81                       | 54.00           | -5.19        | 39.48                 | 9.33         | Average | ---               | ---                  |
| 6 | 7311.00      | 55.36                       | 74.00           | -18.64       | 46.03                 | 9.33         | 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).

|              |          |                  |      |
|--------------|----------|------------------|------|
| 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 | 2386.00      | 37.32                       | 54.00           | -16.68       | 41.02                 | -3.70        | Average | ---               | ---                  |
| 2 | 2386.00      | 50.68                       | 74.00           | -23.32       | 54.38                 | -3.70        | Peak    | ---               | ---                  |
| 3 | 4874.00      | 53.68                       | 54.00           | -0.32        | 48.58                 | 5.10         | Average | ---               | ---                  |
| 4 | 4874.00      | 55.39                       | 74.00           | -18.61       | 50.29                 | 5.10         | Peak    | ---               | ---                  |
| 5 | 7311.00      | 48.55                       | 54.00           | -5.45        | 39.22                 | 9.33         | Average | ---               | ---                  |
| 6 | 7311.00      | 55.12                       | 74.00           | -18.88       | 45.79                 | 9.33         | Peak    | ---               | ---                  |

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

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

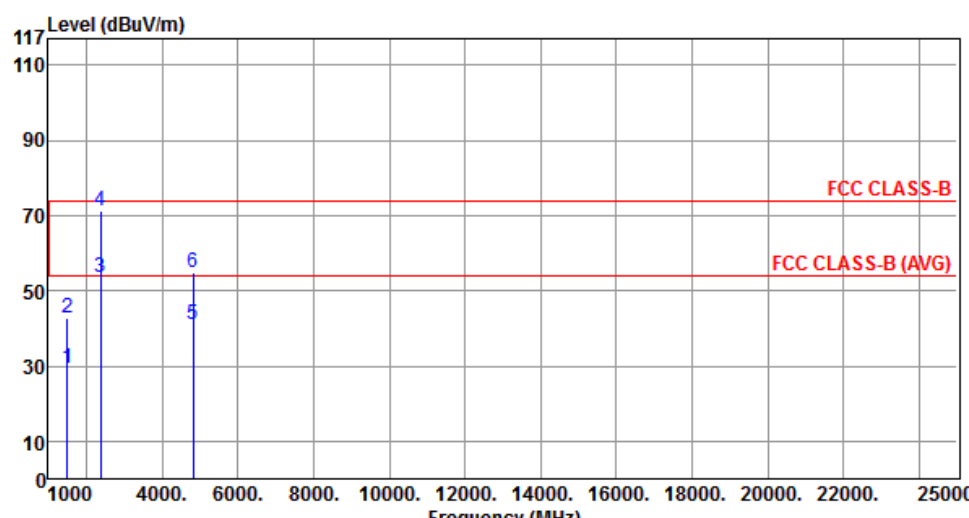
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

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

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

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

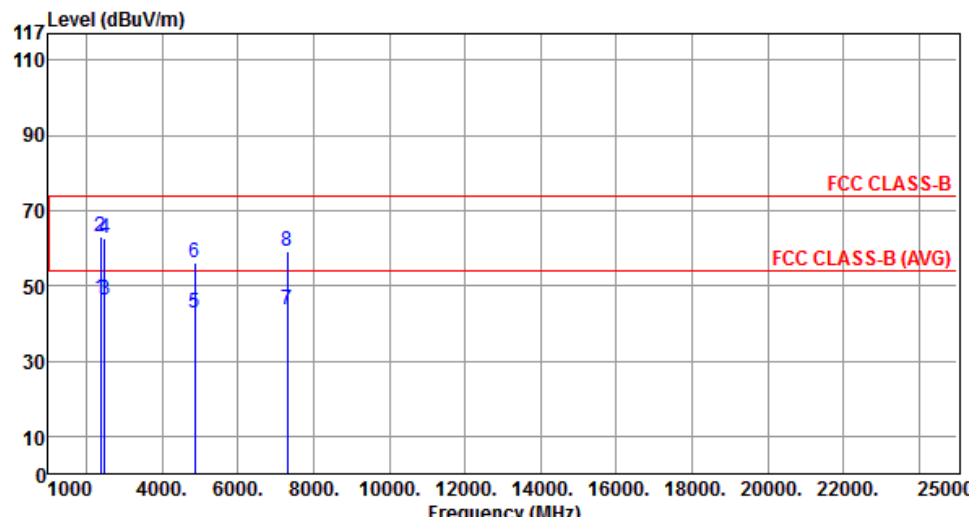
  


|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 1500.00      | 29.36                       | 54.00           | -24.64       | 36.49                 | -7.13        | Average | ---               | ---                  |
| 2 | 1500.00      | 42.58                       | 74.00           | -31.42       | 49.71                 | -7.13        | Peak    | ---               | ---                  |
| 3 | 2390.00      | 53.54                       | 54.00           | -0.46        | 57.22                 | -3.68        | Average | ---               | ---                  |
| 4 | 2390.00      | 71.22                       | 74.00           | -2.78        | 74.90                 | -3.68        | Peak    | ---               | ---                  |
| 5 | 4824.00      | 41.23                       | 54.00           | -12.77       | 36.24                 | 4.99         | Average | ---               | ---                  |
| 6 | 4824.00      | 54.69                       | 74.00           | -19.31       | 49.70                 | 4.99         | 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).

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|------|
| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11g      | Test Freq. (MHz) | 2412 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Vertical |                  |      |
| <div><div><div>Level (dBUV/m)</div><div><div><div><div><div><div>117</div><div>110</div><div>90</div><div>70</div><div>50</div><div>30</div><div>10</div><div>0</div></div></div><div><div><div><div><div>1000</div><div>4000</div><div>6000</div><div>8000</div><div>10000</div><div>12000</div><div>14000</div><div>16000</div><div>18000</div><div>20000</div><div>22000</div><div>25000</div></div></div><div>Frequency (MHz)</div></div></div><div><div><div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div></div></div><div><div><div><div><div>1500.00</div><div>2390.00</div><div>4824.00</div></div></div><div><div><div><div><div>28.46</div><div>41.35</div><div>50.42</div><div>68.08</div><div>41.69</div><div>54.93</div></div></div><div><div><div><div><div>54.00</div><div>74.00</div><div>54.00</div><div>74.00</div><div>54.00</div><div>74.00</div></div></div><div><div><div><div><div>-25.54</div><div>-32.65</div><div>-3.58</div><div>-5.92</div><div>-12.31</div><div>-19.07</div></div></div><div><div><div><div><div>35.59</div><div>48.48</div><div>54.10</div><div>71.76</div><div>36.70</div><div>49.94</div></div></div><div><div><div><div><div>-7.13</div><div>-7.13</div><div>-3.68</div><div>-3.68</div><div>4.99</div><div>4.99</div></div></div><div><div><div><div><div>Average</div><div>Peak</div><div>Average</div><div>Peak</div><div>Average</div><div>Peak</div></div></div><div><div><div><div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div></div></div><div><div><div><div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div></div></div></div></div></div><div><div><div><div><div><div>Freq.</div><div>Emission</div><div>Limit</div><div>Margin</div><div>SA</div><div>Factor</div><div>Remark</div><div>ANT</div><div>Turn</div></div><div><div>level</div><div></div><div></div><div></div><div>reading</div><div></div><div></div><div>High</div><div>Table</div></div><div><div>MHz</div><div>dBuV/m</div><div>dBuV/m</div><div>dB</div><div>dBuV</div><div>dB</div><div></div><div>cm</div><div>deg</div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div> </ |          |                  |      |

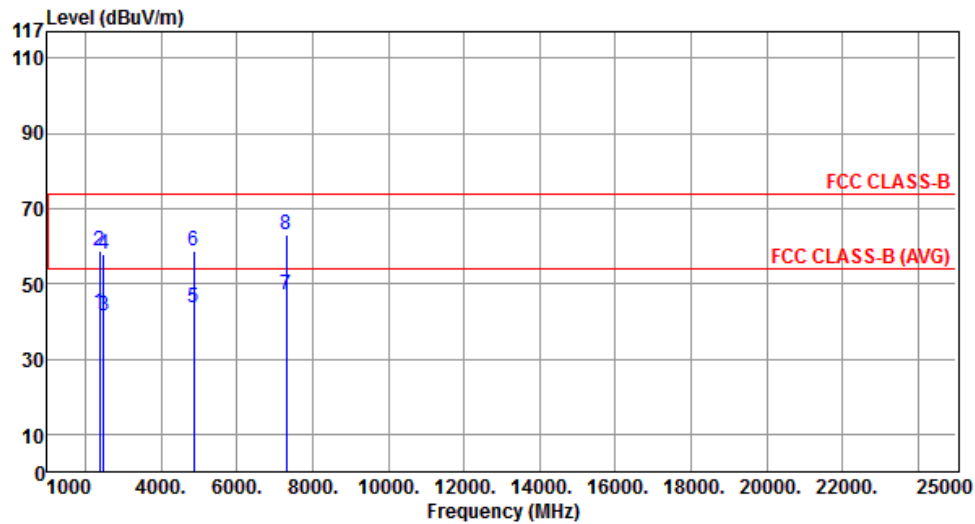
|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11g        | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal |                  |      |

|   | 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      | 46.64                       | 54.00           | -7.36        | 50.32                 | -3.68        | Average | ---               | ---                  |
| 2 | 2390.00      | 63.18                       | 74.00           | -10.82       | 66.86                 | -3.68        | Peak    | ---               | ---                  |
| 3 | 2483.50      | 46.25                       | 54.00           | -7.75        | 49.55                 | -3.30        | Average | ---               | ---                  |
| 4 | 2483.50      | 62.55                       | 74.00           | -11.45       | 65.85                 | -3.30        | Peak    | ---               | ---                  |
| 5 | 4874.00      | 42.59                       | 54.00           | -11.41       | 37.49                 | 5.10         | Average | ---               | ---                  |
| 6 | 4874.00      | 56.16                       | 74.00           | -17.84       | 51.06                 | 5.10         | Peak    | ---               | ---                  |
| 7 | 7311.00      | 43.57                       | 54.00           | -10.43       | 34.24                 | 9.33         | Average | ---               | ---                  |
| 8 | 7311.00      | 59.25                       | 74.00           | -14.75       | 49.92                 | 9.33         | 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).

|              |          |                  |      |
|--------------|----------|------------------|------|
| 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      | 42.18                       | 54.00           | -11.82       | 45.86                 | -3.68        | Average | ---               | ---                  |
| 2 | 2390.00      | 58.60                       | 74.00           | -15.40       | 62.28                 | -3.68        | Peak    | ---               | ---                  |
| 3 | 2483.50      | 41.52                       | 54.00           | -12.48       | 44.82                 | -3.30        | Average | ---               | ---                  |
| 4 | 2483.50      | 57.98                       | 74.00           | -16.02       | 61.28                 | -3.30        | Peak    | ---               | ---                  |
| 5 | 4874.00      | 43.75                       | 54.00           | -10.25       | 38.65                 | 5.10         | Average | ---               | ---                  |
| 6 | 4874.00      | 58.53                       | 74.00           | -15.47       | 53.43                 | 5.10         | Peak    | ---               | ---                  |
| 7 | 7311.00      | 46.90                       | 54.00           | -7.10        | 37.57                 | 9.33         | Average | ---               | ---                  |
| 8 | 7311.00      | 63.07                       | 74.00           | -10.93       | 53.74                 | 9.33         | 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).

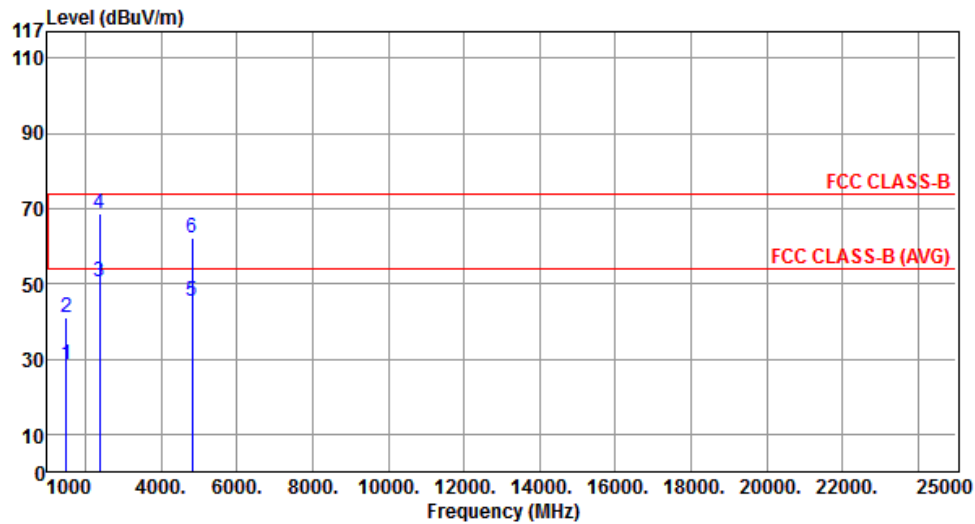
| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 11g          | Test Freq. (MHz)            | 2462            |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |         |       |       |       |       |       |         |     |     |   |         |       |       |       |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
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| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Horizontal   |                             |                 |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |         |       |       |       |       |       |         |     |     |   |         |       |       |       |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| <div><div><div>Level (dBUV/m)</div><div><div><div><div><div><div>117</div><div>110</div><div>90</div><div>70</div><div>50</div><div>30</div><div>10</div><div>0</div></div><div><div><div><div>1000</div><div>4000</div><div>6000</div><div>8000</div><div>10000</div><div>12000</div><div>14000</div><div>16000</div><div>18000</div><div>20000</div><div>22000</div><div>25000</div></div></div></div><div>Frequency (MHz)</div></div></div><div><div><div><div>2</div><div>1</div><div>4</div><div>3</div><div>6</div><div>5</div></div><div><div><div><div>FCC CLASS-B</div><div>FCC CLASS-B (AVG)</div></div></div></div></div><table><tr><th></th><th>Freq.<br/>MHz</th><th>Emission<br/>level<br/>dBUV/m</th><th>Limit<br/>dBUV/m</th><th>Margin<br/>dB</th><th>SA<br/>reading<br/>dBUV</th><th>Factor<br/>dB</th><th>Remark</th><th>ANT<br/>High<br/>cm</th><th>Turn<br/>Table<br/>deg</th></tr><tr><td>1</td><td>2483.50</td><td>53.78</td><td>54.00</td><td>-0.22</td><td>57.08</td><td>-3.30</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>2483.50</td><td>71.74</td><td>74.00</td><td>-2.26</td><td>75.04</td><td>-3.30</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>4924.00</td><td>42.86</td><td>54.00</td><td>-11.14</td><td>37.66</td><td>5.20</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>4</td><td>4924.00</td><td>56.51</td><td>74.00</td><td>-17.49</td><td>51.31</td><td>5.20</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>7386.00</td><td>43.95</td><td>54.00</td><td>-10.05</td><td>34.56</td><td>9.39</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>6</td><td>7386.00</td><td>59.66</td><td>74.00</td><td>-14.34</td><td>50.27</td><td>9.39</td><td>Peak</td><td>---</td><td>---</td></tr></table><div><div>Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)<br/>*Factor includes antenna factor , cable loss and amplifier gain<br/>Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).</div></div></div></div></div></div></div> |              |                             |                 |              | 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 | 53.78 | 54.00 | -0.22 | 57.08 | -3.30 | Average | --- | --- | 2 | 2483.50 | 71.74 | 74.00 | -2.26 | 75.04 | -3.30 | Peak | --- | --- | 3 | 4924.00 | 42.86 | 54.00 | -11.14 | 37.66 | 5.20 | Average | --- | --- | 4 | 4924.00 | 56.51 | 74.00 | -17.49 | 51.31 | 5.20 | Peak | --- | --- | 5 | 7386.00 | 43.95 | 54.00 | -10.05 | 34.56 | 9.39 | Average | --- | --- | 6 | 7386.00 | 59.66 | 74.00 | -14.34 | 50.27 | 9.39 | Peak | --- | --- |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 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      | 53.78                       | 54.00           | -0.22        | 57.08                 | -3.30                       | Average         | ---               | ---                   |              |        |                   |                      |   |         |       |       |       |       |       |         |     |     |   |         |       |       |       |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2483.50      | 71.74                       | 74.00           | -2.26        | 75.04                 | -3.30                       | Peak            | ---               | ---                   |              |        |                   |                      |   |         |       |       |       |       |       |         |     |     |   |         |       |       |       |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4924.00      | 42.86                       | 54.00           | -11.14       | 37.66                 | 5.20                        | Average         | ---               | ---                   |              |        |                   |                      |   |         |       |       |       |       |       |         |     |     |   |         |       |       |       |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4924.00      | 56.51                       | 74.00           | -17.49       | 51.31                 | 5.20                        | Peak            | ---               | ---                   |              |        |                   |                      |   |         |       |       |       |       |       |         |     |     |   |         |       |       |       |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7386.00      | 43.95                       | 54.00           | -10.05       | 34.56                 | 9.39                        | Average         | ---               | ---                   |              |        |                   |                      |   |         |       |       |       |       |       |         |     |     |   |         |       |       |       |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7386.00      | 59.66                       | 74.00           | -14.34       | 50.27                 | 9.39                        | Peak            | ---               | ---                   |              |        |                   |                      |   |         |       |       |       |       |       |         |     |     |   |         |       |       |       |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |

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| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11g      | Test Freq. (MHz) | 2462 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Vertical |                  |      |
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### 3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

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| <div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div>117</div><div>110</div><div>90</div><div>70</div><div>50</div><div>30</div><div>10</div><div>0</div></div><div><div><div><div>1000</div><div>4000</div><div>6000</div><div>8000</div><div>10000</div><div>12000</div><div>14000</div><div>16000</div><div>18000</div><div>20000</div><div>22000</div><div>25000</div></div></div><div>Frequency (MHz)</div></div></div><div><div><div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div></div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></di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|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | HT20     | Test Freq. (MHz) | 2412 |
| Polarization | Vertical |                  |      |



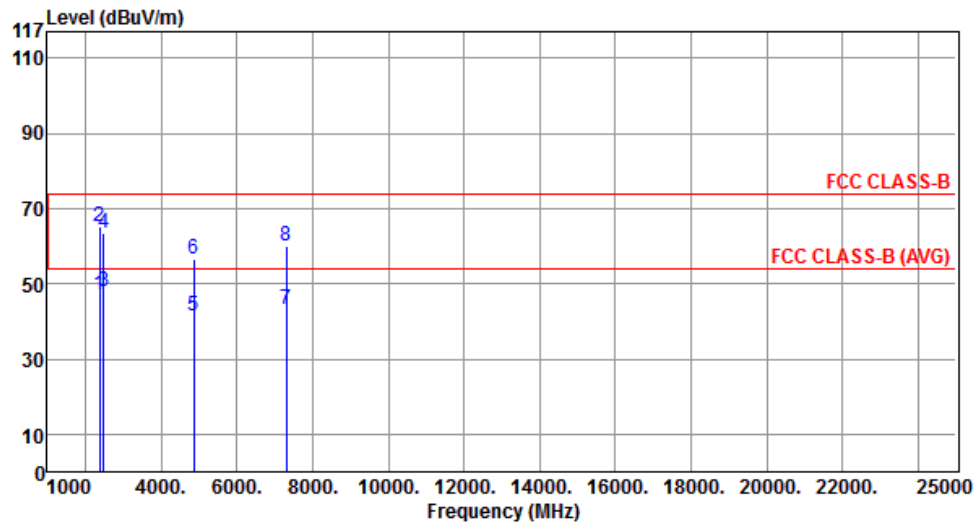
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 1500.00      | 28.36                       | 54.00           | -25.64       | 35.49                 | -7.13        | Average | ---               | ---                  |
| 2 | 1500.00      | 41.19                       | 74.00           | -32.81       | 48.32                 | -7.13        | Peak    | ---               | ---                  |
| 3 | 2390.00      | 50.69                       | 54.00           | -3.31        | 54.37                 | -3.68        | Average | ---               | ---                  |
| 4 | 2390.00      | 68.62                       | 74.00           | -5.38        | 72.30                 | -3.68        | Peak    | ---               | ---                  |
| 5 | 4824.00      | 45.52                       | 54.00           | -8.48        | 40.53                 | 4.99         | Average | ---               | ---                  |
| 6 | 4824.00      | 62.13                       | 74.00           | -11.87       | 57.14                 | 4.99         | 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).

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | HT20       | 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      | 47.21                       | 54.00           | -6.79        | 50.89                 | -3.68        | Average | ---               | ---                  |
| 2 | 2390.00      | 65.21                       | 74.00           | -8.79        | 68.89                 | -3.68        | Peak    | ---               | ---                  |
| 3 | 2483.50      | 47.85                       | 54.00           | -6.15        | 51.15                 | -3.30        | Average | ---               | ---                  |
| 4 | 2483.50      | 63.66                       | 74.00           | -10.34       | 66.96                 | -3.30        | Peak    | ---               | ---                  |
| 5 | 4874.00      | 41.65                       | 54.00           | -12.35       | 36.55                 | 5.10         | Average | ---               | ---                  |
| 6 | 4874.00      | 56.53                       | 74.00           | -17.47       | 51.43                 | 5.10         | Peak    | ---               | ---                  |
| 7 | 7311.00      | 43.06                       | 54.00           | -10.94       | 33.73                 | 9.33         | Average | ---               | ---                  |
| 8 | 7311.00      | 60.12                       | 74.00           | -13.88       | 50.79                 | 9.33         | Peak    | ---               | ---                  |

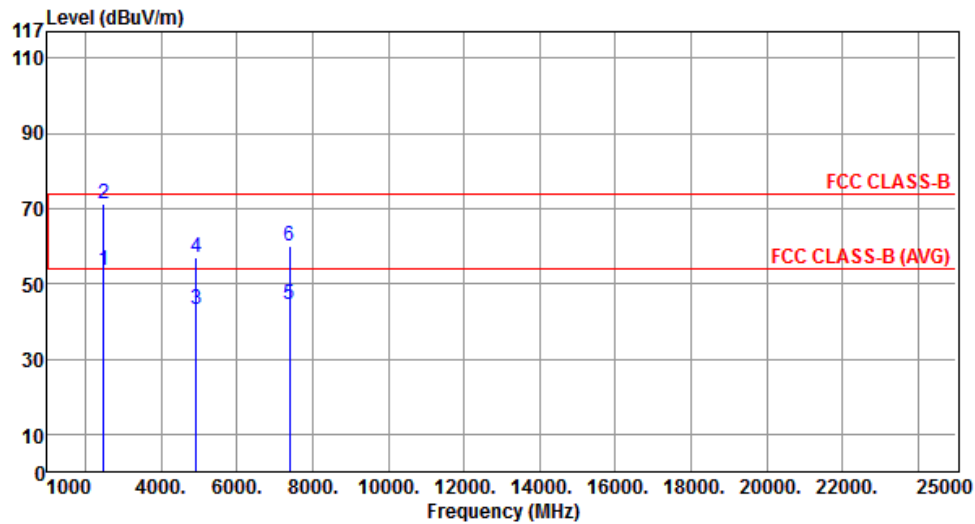
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

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

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

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(MHz) | 2437 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Vertical |                  |      |
| <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   | HT20       | Test Freq. (MHz) | 2462 |
| Polarization | Horizontal |                  |      |



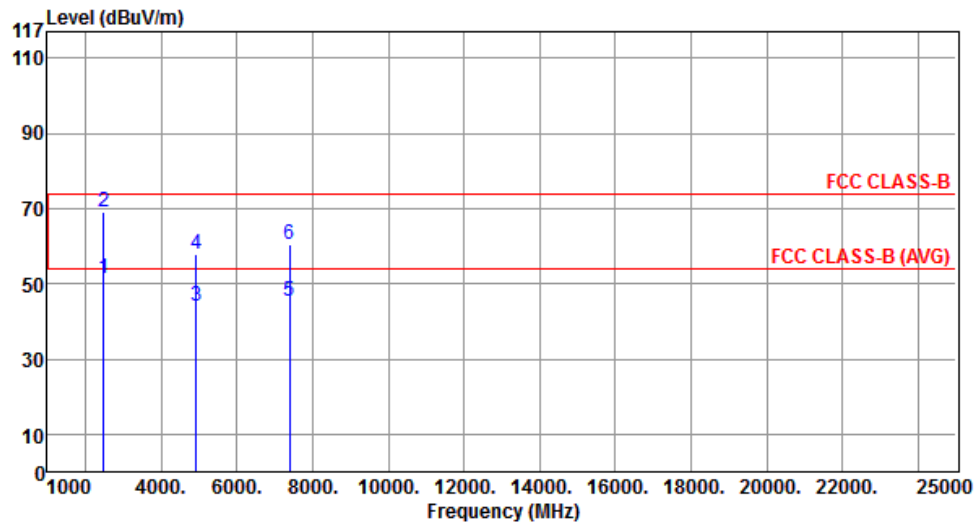
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2483.50      | 53.52                       | 54.00           | -0.48        | 56.82                 | -3.30        | Average | ---               | ---                  |
| 2 | 2483.50      | 71.26                       | 74.00           | -2.74        | 74.56                 | -3.30        | Peak    | ---               | ---                  |
| 3 | 4924.00      | 43.25                       | 54.00           | -10.75       | 38.05                 | 5.20         | Average | ---               | ---                  |
| 4 | 4924.00      | 57.14                       | 74.00           | -16.86       | 51.94                 | 5.20         | Peak    | ---               | ---                  |
| 5 | 7386.00      | 44.62                       | 54.00           | -9.38        | 35.23                 | 9.39         | Average | ---               | ---                  |
| 6 | 7386.00      | 60.20                       | 74.00           | -13.80       | 50.81                 | 9.39         | 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).

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | HT20     | 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      | 51.23                       | 54.00           | -2.77        | 54.53                 | -3.30        | Average | ---               | ---                  |
| 2 | 2483.50      | 69.04                       | 74.00           | -4.96        | 72.34                 | -3.30        | Peak    | ---               | ---                  |
| 3 | 4924.00      | 43.95                       | 54.00           | -10.05       | 38.75                 | 5.20         | Average | ---               | ---                  |
| 4 | 4924.00      | 57.86                       | 74.00           | -16.14       | 52.66                 | 5.20         | Peak    | ---               | ---                  |
| 5 | 7386.00      | 45.21                       | 54.00           | -8.79        | 35.82                 | 9.39         | Average | ---               | ---                  |
| 6 | 7386.00      | 60.58                       | 74.00           | -13.42       | 51.19                 | 9.39         | Peak    | ---               | ---                  |

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

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

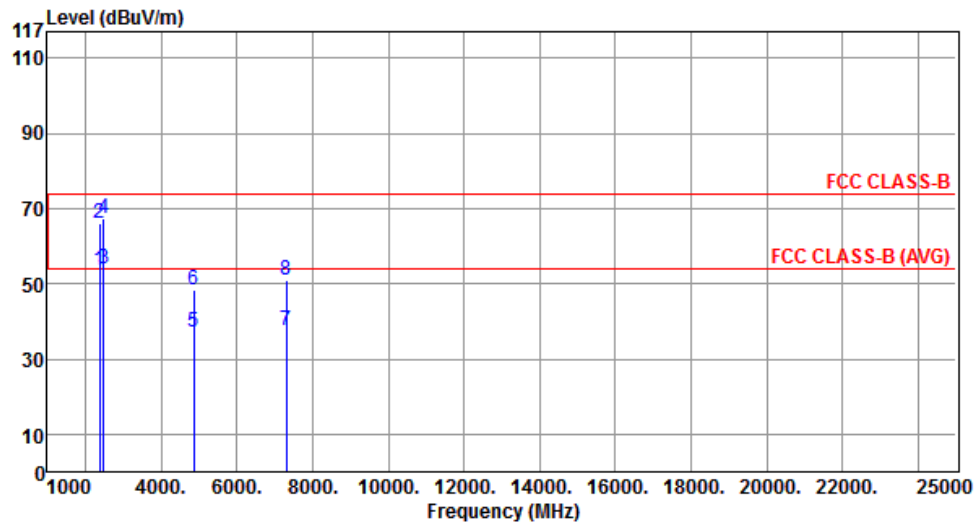
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

### 3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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(MHz) | 2422 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| <div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div>117</div><div>110</div><div>90</div><div>70</div><div>50</div><div>30</div><div>10</div><div>0</div></div></div><div><div><div><div>1000</div><div>4000</div><div>6000</div><div>8000</div><div>10000</div><div>12000</div><div>14000</div><div>16000</div><div>18000</div><div>20000</div><div>22000</div><div>25000</div></div></div><div>Frequency 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| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HT40     | Test Freq. (MHz) | 2422   |        |         |          |         |        |       |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|--------|--------|---------|----------|---------|--------|-------|--------|--------|-----|------|--|-----|-------|--|--|---------|--|--|------|-------|--|--|--------|--------|----|------|----|--|----|-----|---|---------|-------|-------|--------|-------|-------|---------|-----|-----|---|---------|-------|-------|--------|-------|-------|------|-----|-----|---|---------|-------|-------|-------|-------|-------|---------|-----|-----|---|---------|-------|-------|--------|-------|-------|------|-----|-----|---|---------|-------|-------|--------|-------|------|---------|-----|-----|---|---------|-------|-------|--------|-------|------|------|-----|-----|
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Vertical |                  |        |        |         |          |         |        |       |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| <div><div><div>Level (dBUV/m)</div><div><div><div><div><div><div>117</div><div>110</div><div>90</div><div>70</div><div>50</div><div>30</div><div>10</div><div>0</div></div></div><div><div><div><div>1000</div><div>4000</div><div>6000</div><div>8000</div><div>10000</div><div>12000</div><div>14000</div><div>16000</div><div>18000</div><div>20000</div><div>22000</div><div>25000</div></div></div><div>Frequency (MHz)</div></div></div><div><div><div><div><div>2</div><div>4</div><div>6</div></div><div><div>1</div><div>3</div><div>5</div></div></div><div><div><div><div>FCC CLASS-B</div><div>FCC CLASS-B (AVG)</div></div></div></div></div><table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>1500.00</td><td>29.36</td><td>54.00</td><td>-24.64</td><td>36.49</td><td>-7.13</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>1500.00</td><td>42.18</td><td>74.00</td><td>-31.82</td><td>49.31</td><td>-7.13</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>2390.00</td><td>51.64</td><td>54.00</td><td>-2.36</td><td>55.32</td><td>-3.68</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>4</td><td>2390.00</td><td>62.95</td><td>74.00</td><td>-11.05</td><td>66.63</td><td>-3.68</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>4844.00</td><td>42.35</td><td>54.00</td><td>-11.65</td><td>37.32</td><td>5.03</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>6</td><td>4844.00</td><td>56.04</td><td>74.00</td><td>-17.96</td><td>51.01</td><td>5.03</td><td>Peak</td><td>---</td><td>---</td></tr></table><div><div>Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)</div><div>*Factor includes antenna factor , cable loss and amplifier gain</div><div>Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).</div></div></div></div></div></div></div> |          |                  |        |        | Freq.   | Emission | Limit   | Margin | SA    | Factor | Remark | ANT | Turn |  | MHz | level |  |  | reading |  |  | High | Table |  |  | dBuV/m | dBuV/m | dB | dBuV | dB |  | cm | deg | 1 | 1500.00 | 29.36 | 54.00 | -24.64 | 36.49 | -7.13 | Average | --- | --- | 2 | 1500.00 | 42.18 | 74.00 | -31.82 | 49.31 | -7.13 | Peak | --- | --- | 3 | 2390.00 | 51.64 | 54.00 | -2.36 | 55.32 | -3.68 | Average | --- | --- | 4 | 2390.00 | 62.95 | 74.00 | -11.05 | 66.63 | -3.68 | Peak | --- | --- | 5 | 4844.00 | 42.35 | 54.00 | -11.65 | 37.32 | 5.03 | Average | --- | --- | 6 | 4844.00 | 56.04 | 74.00 | -17.96 | 51.01 | 5.03 | Peak | --- | --- |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Freq.    | Emission         | Limit  | Margin | SA      | Factor   | Remark  | ANT    | Turn  |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MHz      | level            |        |        | reading |          |         | High   | Table |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          | dBuV/m           | dBuV/m | dB     | dBuV    | dB       |         | cm     | deg   |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1500.00  | 29.36            | 54.00  | -24.64 | 36.49   | -7.13    | Average | ---    | ---   |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1500.00  | 42.18            | 74.00  | -31.82 | 49.31   | -7.13    | Peak    | ---    | ---   |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2390.00  | 51.64            | 54.00  | -2.36  | 55.32   | -3.68    | Average | ---    | ---   |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2390.00  | 62.95            | 74.00  | -11.05 | 66.63   | -3.68    | Peak    | ---    | ---   |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4844.00  | 42.35            | 54.00  | -11.65 | 37.32   | 5.03     | Average | ---    | ---   |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4844.00  | 56.04            | 74.00  | -17.96 | 51.01   | 5.03     | Peak    | ---    | ---   |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |       |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |     |   |         |       |       |        |       |      |      |     |     |

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | HT40       | Test Freq. (MHz) | 2437 |
| Polarization | Horizontal |                  |      |



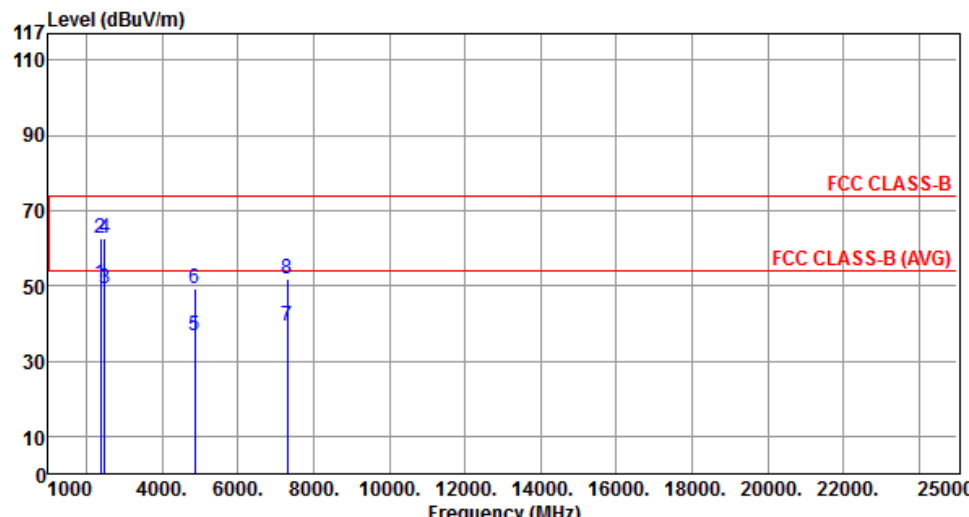
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2390.00      | 53.61                       | 54.00           | -0.39        | 57.29                 | -3.68        | Average | ---               | ---                  |
| 2 | 2390.00      | 66.05                       | 74.00           | -7.95        | 69.73                 | -3.68        | Peak    | ---               | ---                  |
| 3 | 2483.50      | 53.84                       | 54.00           | -0.16        | 57.14                 | -3.30        | Average | ---               | ---                  |
| 4 | 2483.50      | 67.43                       | 74.00           | -6.57        | 70.73                 | -3.30        | Peak    | ---               | ---                  |
| 5 | 4874.00      | 36.94                       | 54.00           | -17.06       | 31.84                 | 5.10         | Average | ---               | ---                  |
| 6 | 4874.00      | 48.55                       | 74.00           | -25.45       | 43.45                 | 5.10         | Peak    | ---               | ---                  |
| 7 | 7311.00      | 37.73                       | 54.00           | -16.27       | 28.40                 | 9.33         | Average | ---               | ---                  |
| 8 | 7311.00      | 50.78                       | 74.00           | -23.22       | 41.45                 | 9.33         | 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).

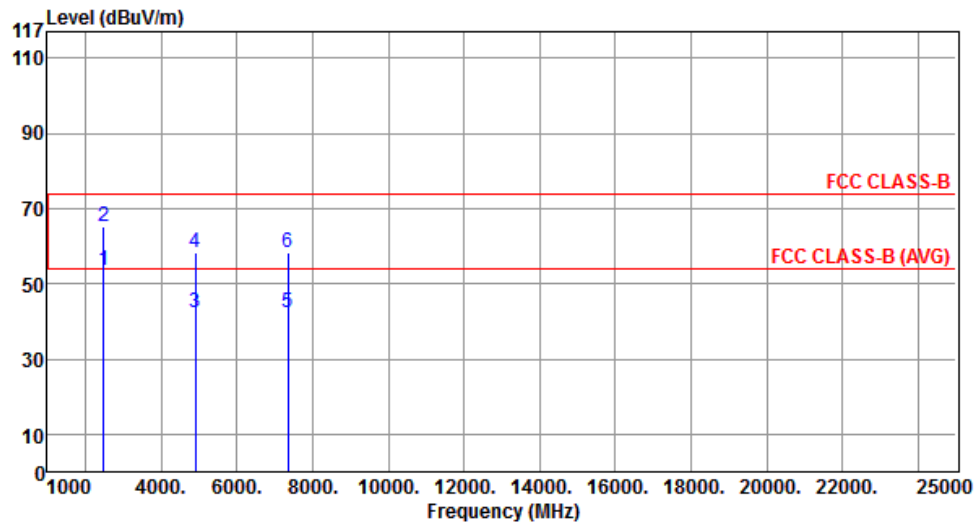
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | HT40     | Test Freq. (MHz) | 2437 |
| Polarization | Vertical |                  |      |

|   | 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      | 50.56                       | 54.00           | -3.44        | 54.24                 | -3.68        | Average | ---               | ---                  |
| 2 | 2390.00      | 62.48                       | 74.00           | -11.52       | 66.16                 | -3.68        | Peak    | ---               | ---                  |
| 3 | 2483.50      | 49.40                       | 54.00           | -4.60        | 52.70                 | -3.30        | Average | ---               | ---                  |
| 4 | 2483.50      | 62.78                       | 74.00           | -11.22       | 66.08                 | -3.30        | Peak    | ---               | ---                  |
| 5 | 4874.00      | 36.64                       | 54.00           | -17.36       | 31.54                 | 5.10         | Average | ---               | ---                  |
| 6 | 4874.00      | 49.34                       | 74.00           | -24.66       | 44.24                 | 5.10         | Peak    | ---               | ---                  |
| 7 | 7311.00      | 39.30                       | 54.00           | -14.70       | 29.97                 | 9.33         | Average | ---               | ---                  |
| 8 | 7311.00      | 51.85                       | 74.00           | -22.15       | 42.52                 | 9.33         | 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).

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | HT40       | Test Freq. (MHz) | 2452 |
| Polarization | Horizontal |                  |      |



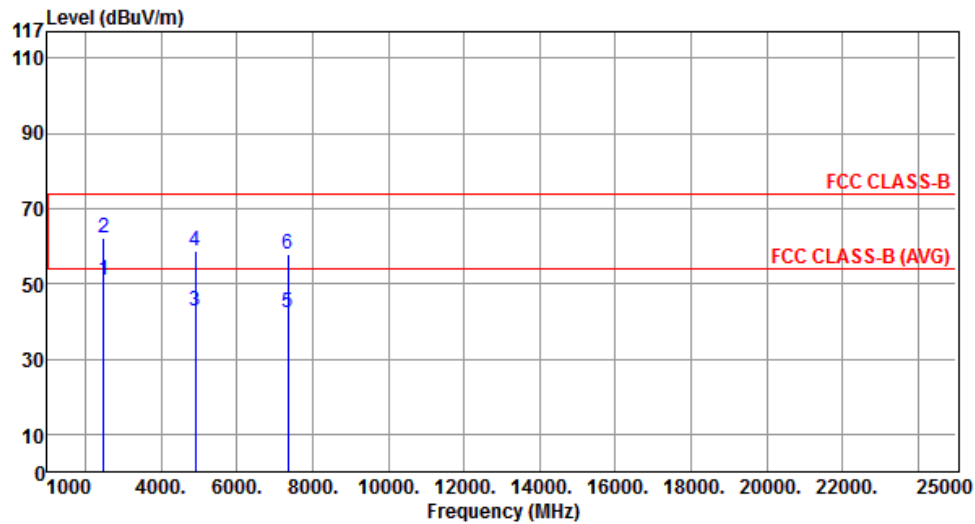
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2483.50      | 53.62                       | 54.00           | -0.38        | 56.92                 | -3.30        | Average | ---               | ---                  |
| 2 | 2483.50      | 65.03                       | 74.00           | -8.97        | 68.33                 | -3.30        | Peak    | ---               | ---                  |
| 3 | 4904.00      | 42.43                       | 54.00           | -11.57       | 37.27                 | 5.16         | Average | ---               | ---                  |
| 4 | 4904.00      | 58.11                       | 74.00           | -15.89       | 52.95                 | 5.16         | Peak    | ---               | ---                  |
| 5 | 7356.00      | 42.46                       | 54.00           | -11.54       | 33.10                 | 9.36         | Average | ---               | ---                  |
| 6 | 7356.00      | 58.19                       | 74.00           | -15.81       | 48.83                 | 9.36         | 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).

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | HT40     | 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      | 50.95                       | 54.00           | -3.05        | 54.25                 | -3.30        | Average | ---               | ---                  |
| 2 | 2483.50      | 62.36                       | 74.00           | -11.64       | 65.66                 | -3.30        | Peak    | ---               | ---                  |
| 3 | 4904.00      | 42.89                       | 54.00           | -11.11       | 37.73                 | 5.16         | Average | ---               | ---                  |
| 4 | 4904.00      | 58.69                       | 74.00           | -15.31       | 53.53                 | 5.16         | Peak    | ---               | ---                  |
| 5 | 7356.00      | 42.13                       | 54.00           | -11.87       | 32.77                 | 9.36         | Average | ---               | ---                  |
| 6 | 7356.00      | 57.86                       | 74.00           | -16.14       | 48.50                 | 9.36         | 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).

## 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 20 dB relative to the maximum in-band peak PSD level in 100 kHz

### 3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.6.3 Test Procedures

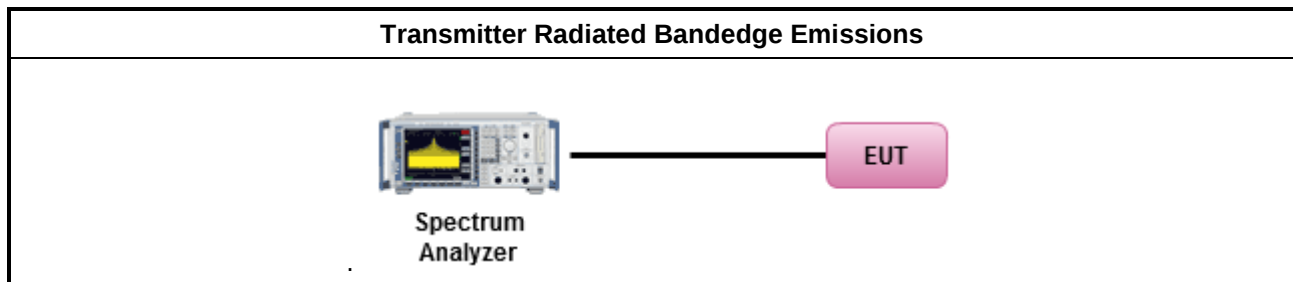
#### Reference level measurement

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

### 3.6.4 Test Setup

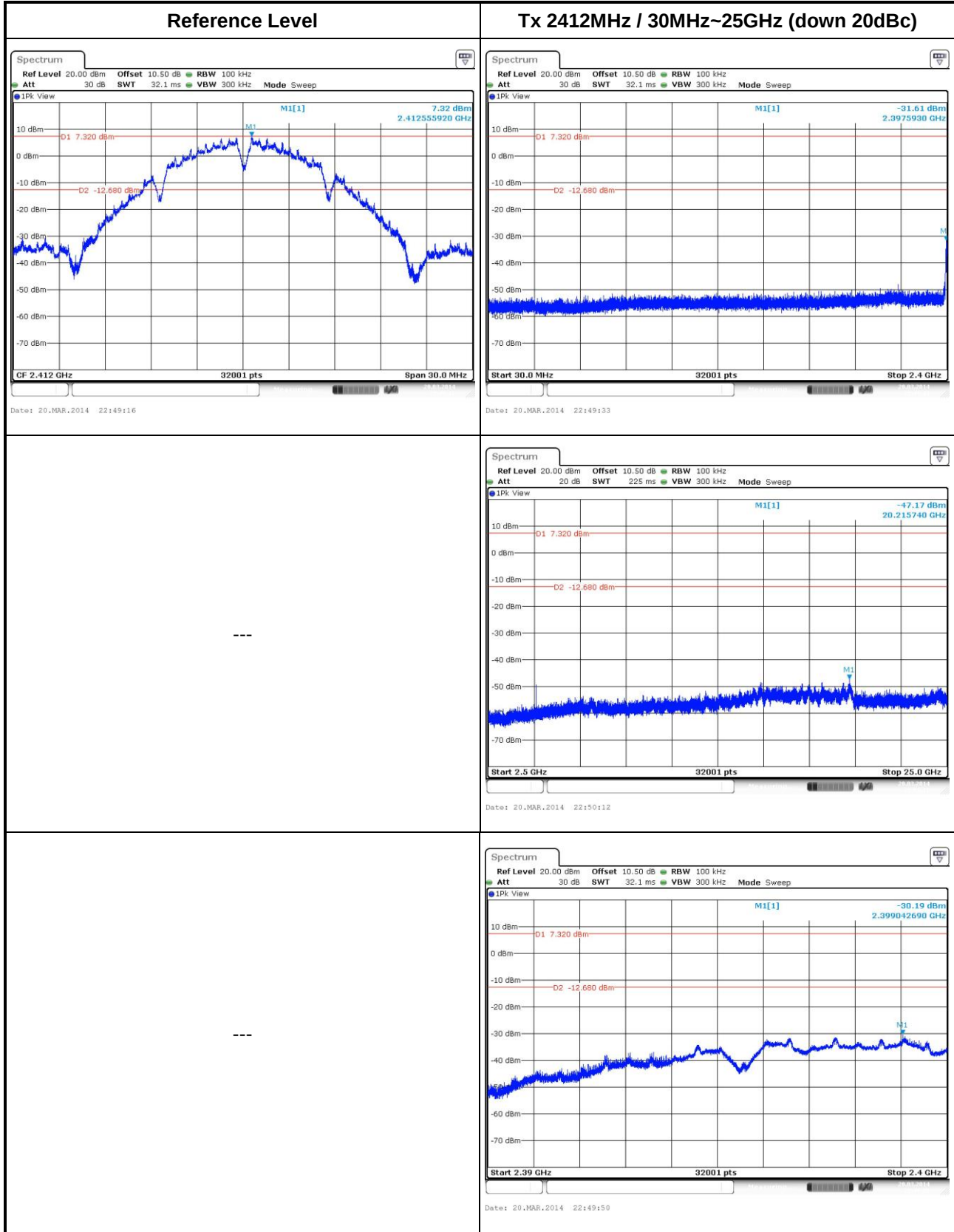


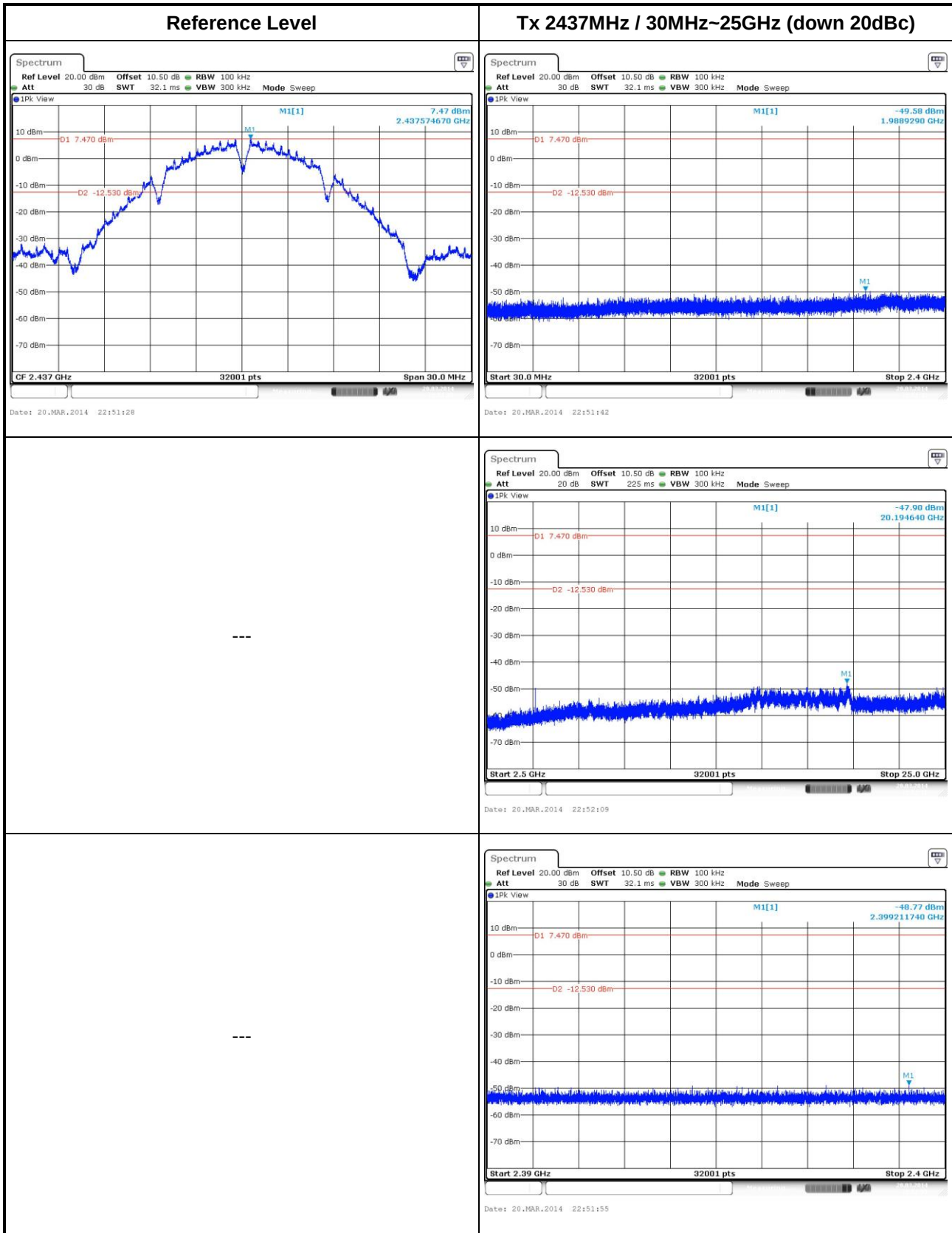
### 3.6.5 Test Result of Emissions in non-restricted frequency bands

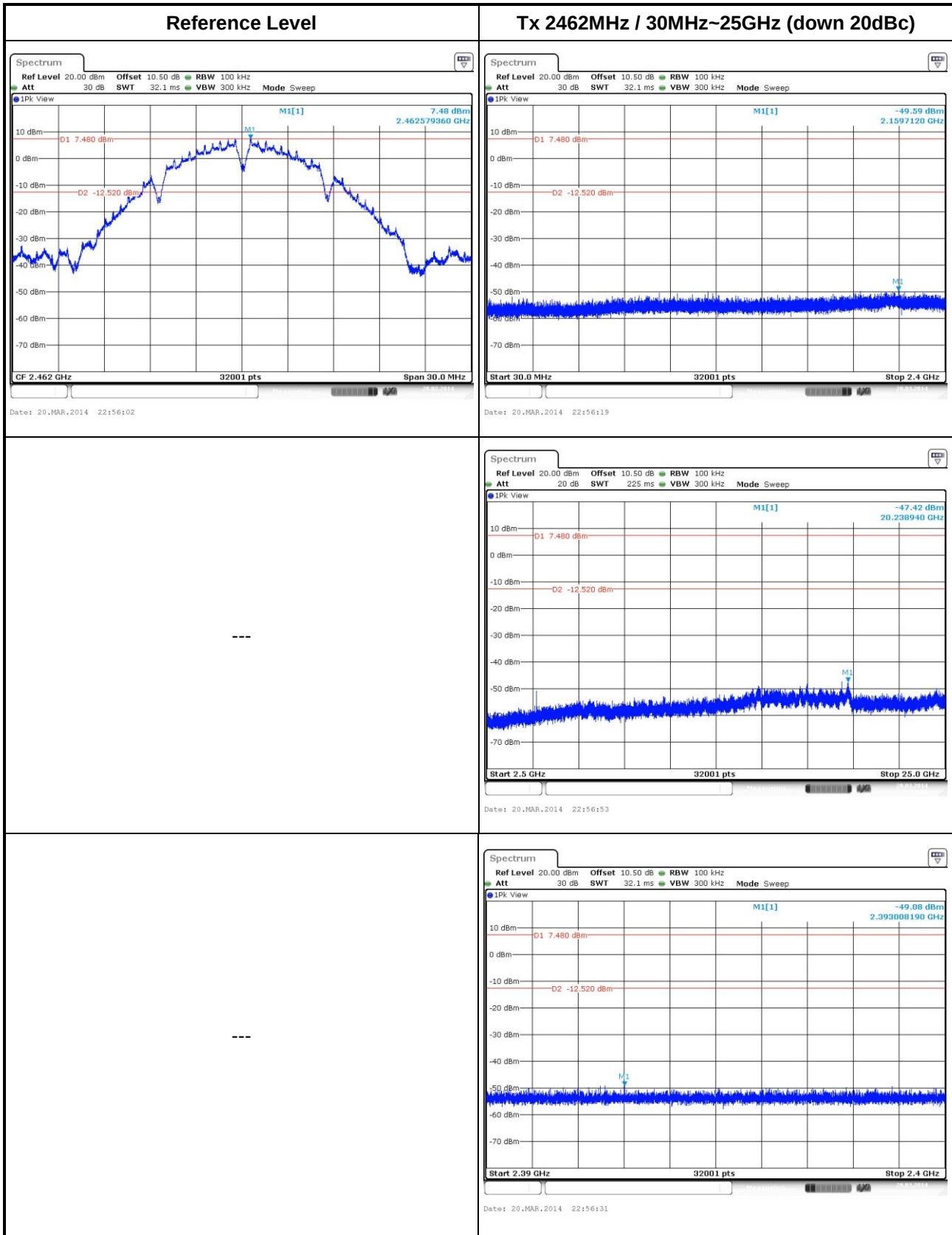
This test item is performed on each TX output individually without summing or adding  $10 \log(N_{ANT})$  since measurements are made relative to the in-band emissions on the individual outputs. Only worst test result of each operating mode is presented.

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

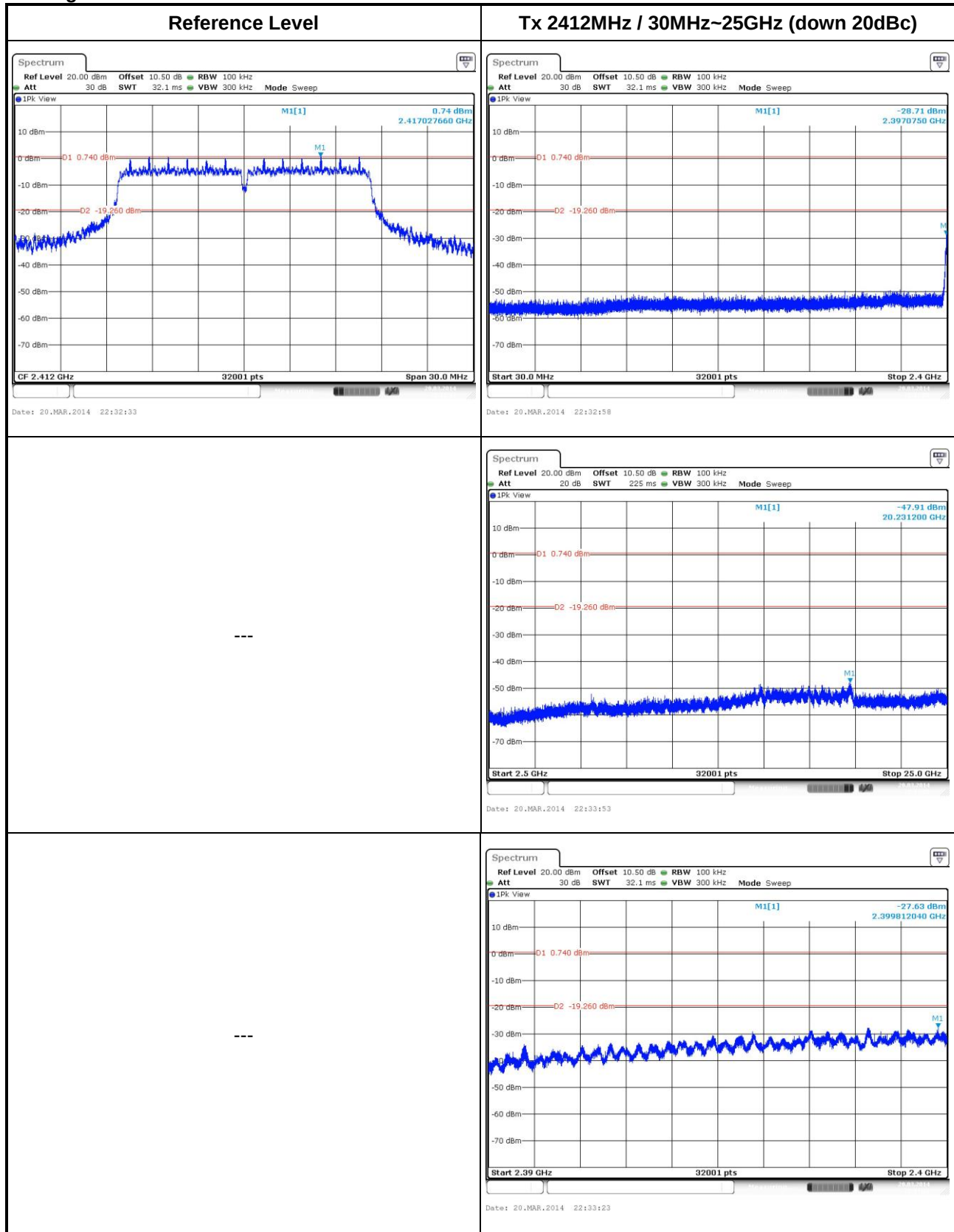
802.11b



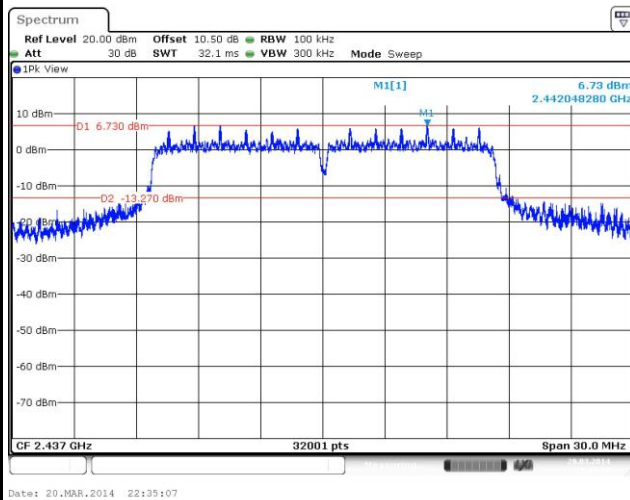




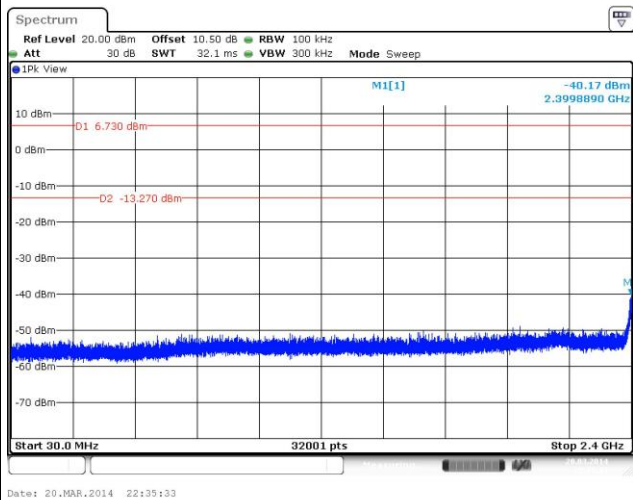
## 802.11g



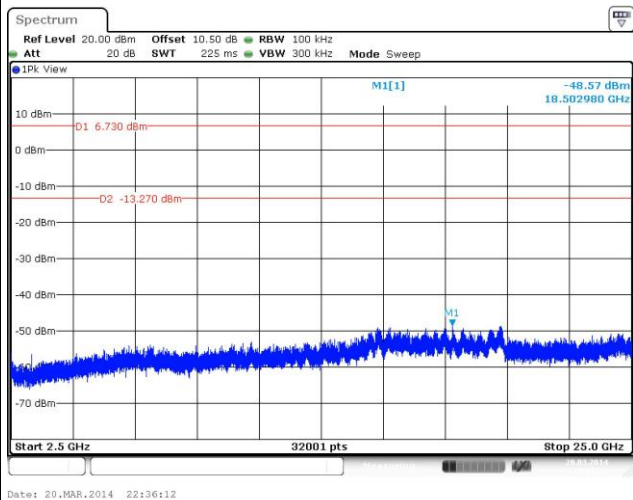
### Reference Level



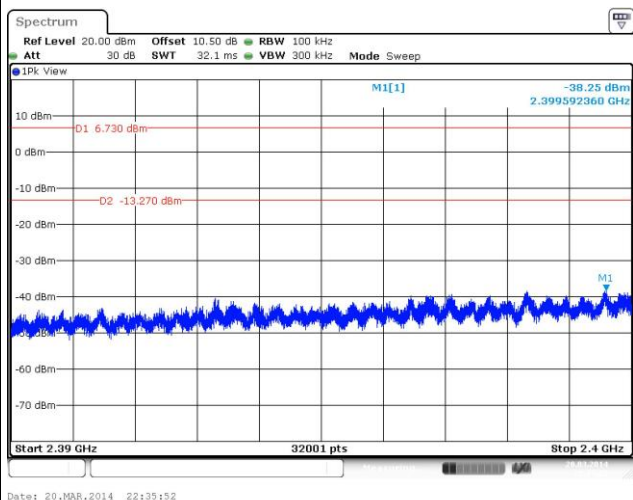
### Tx 2437MHz / 30MHz~25GHz (down 20dBc)

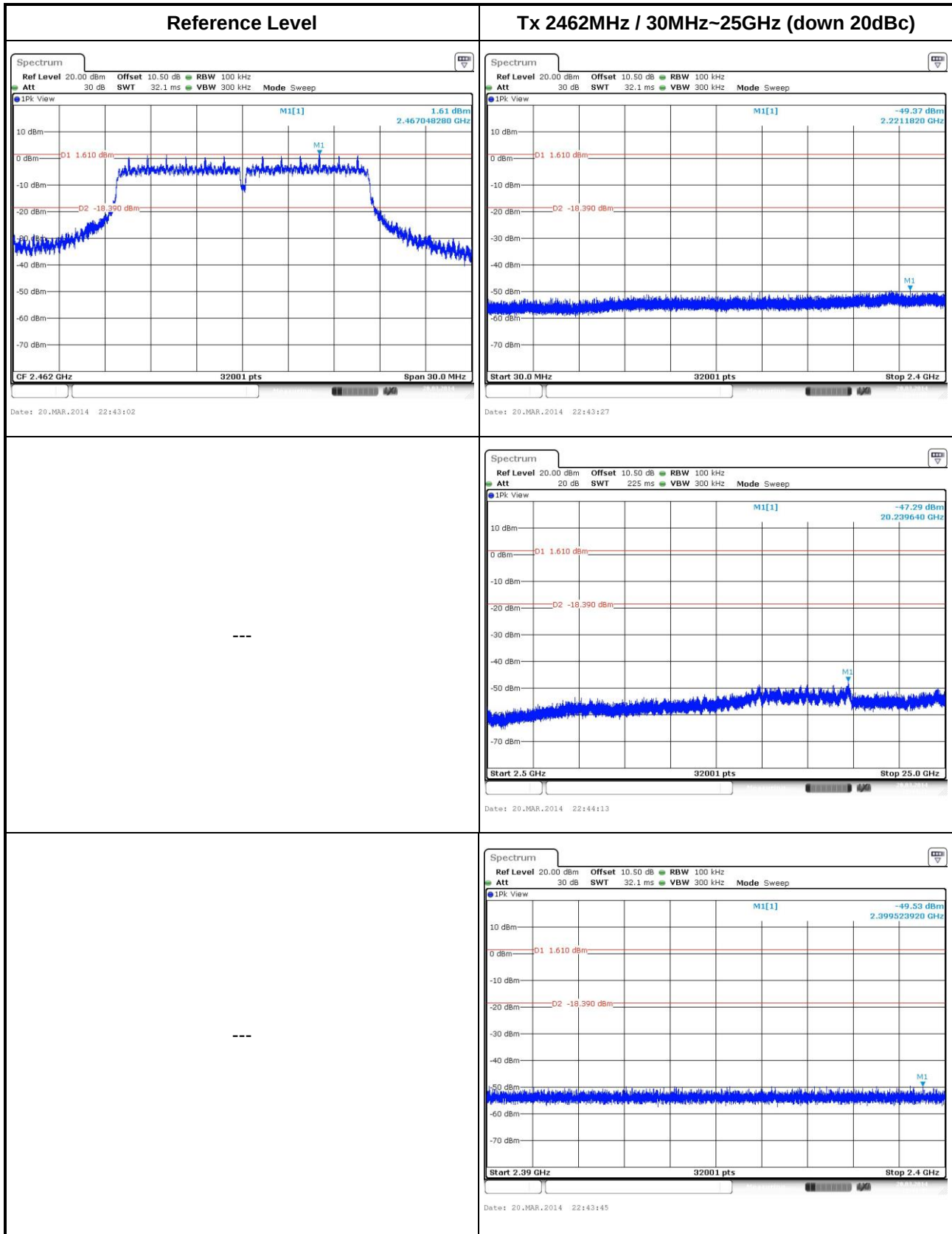


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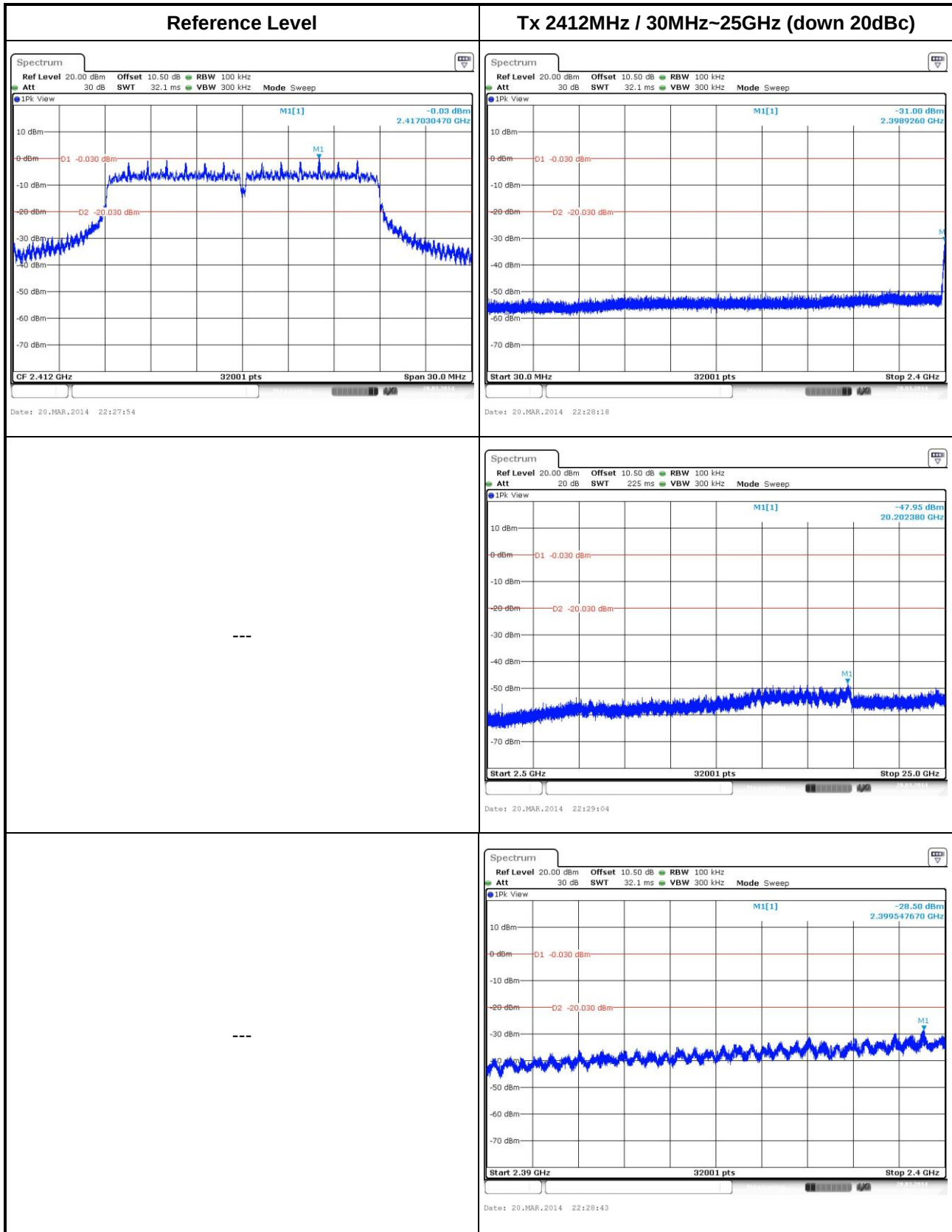


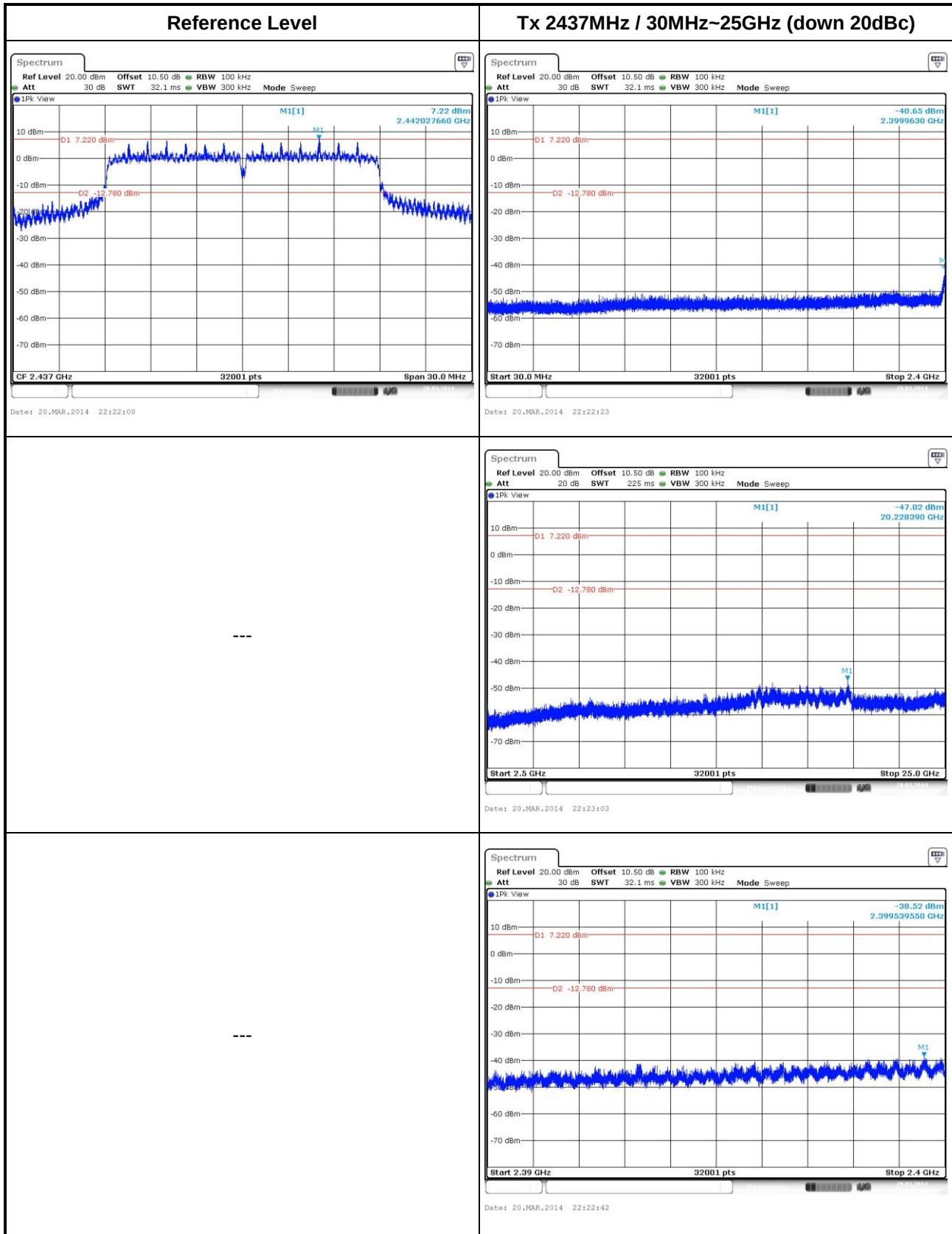
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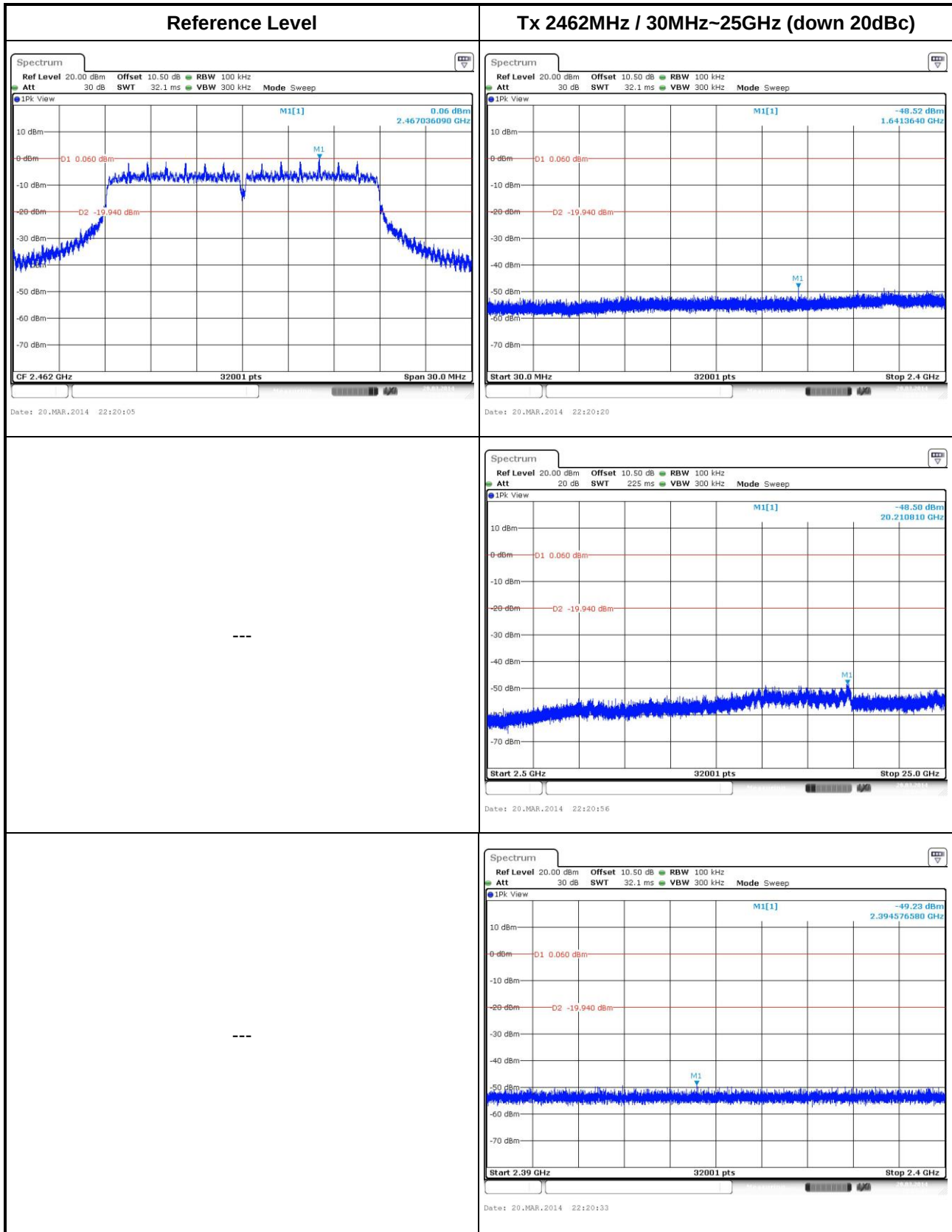




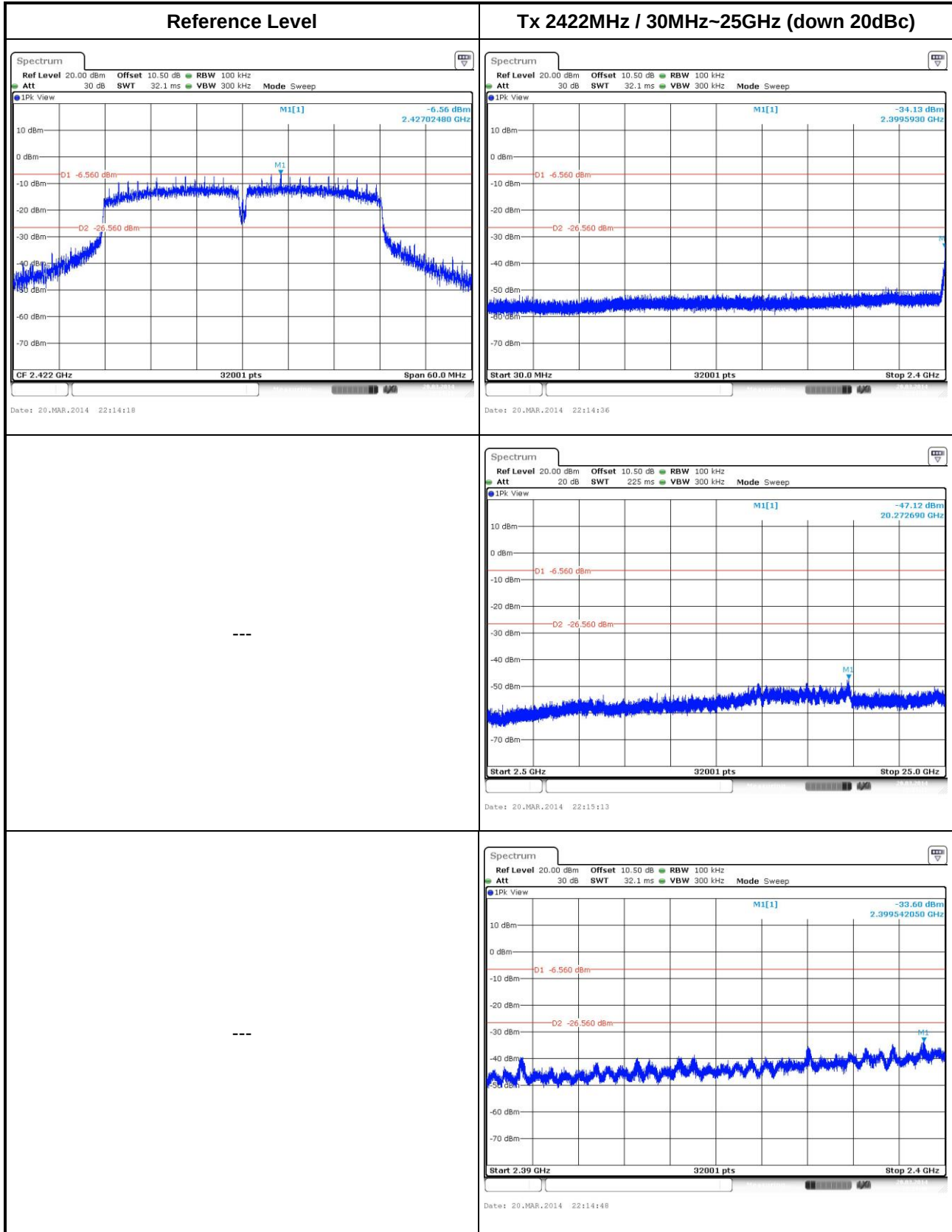
## 802.11n HT20

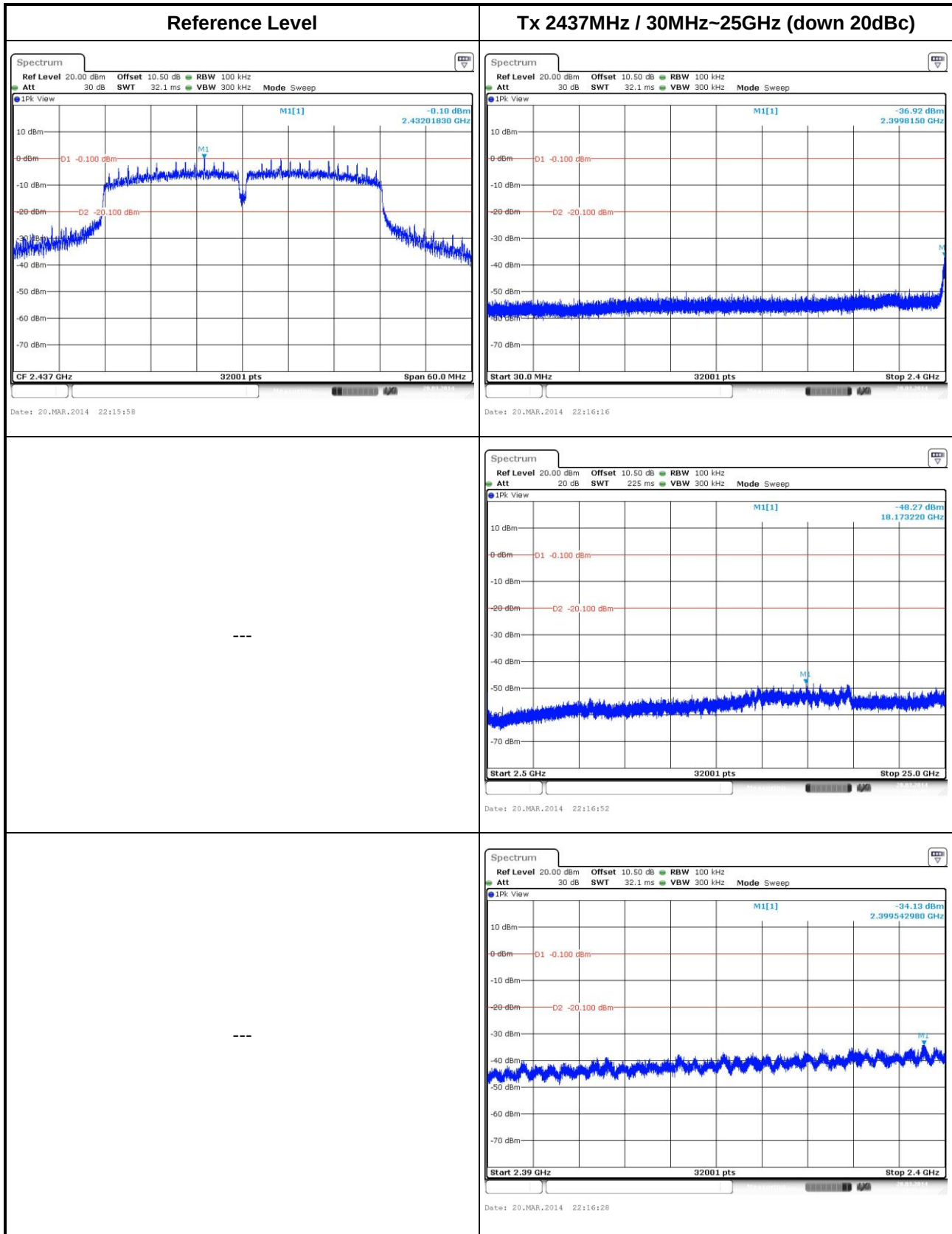


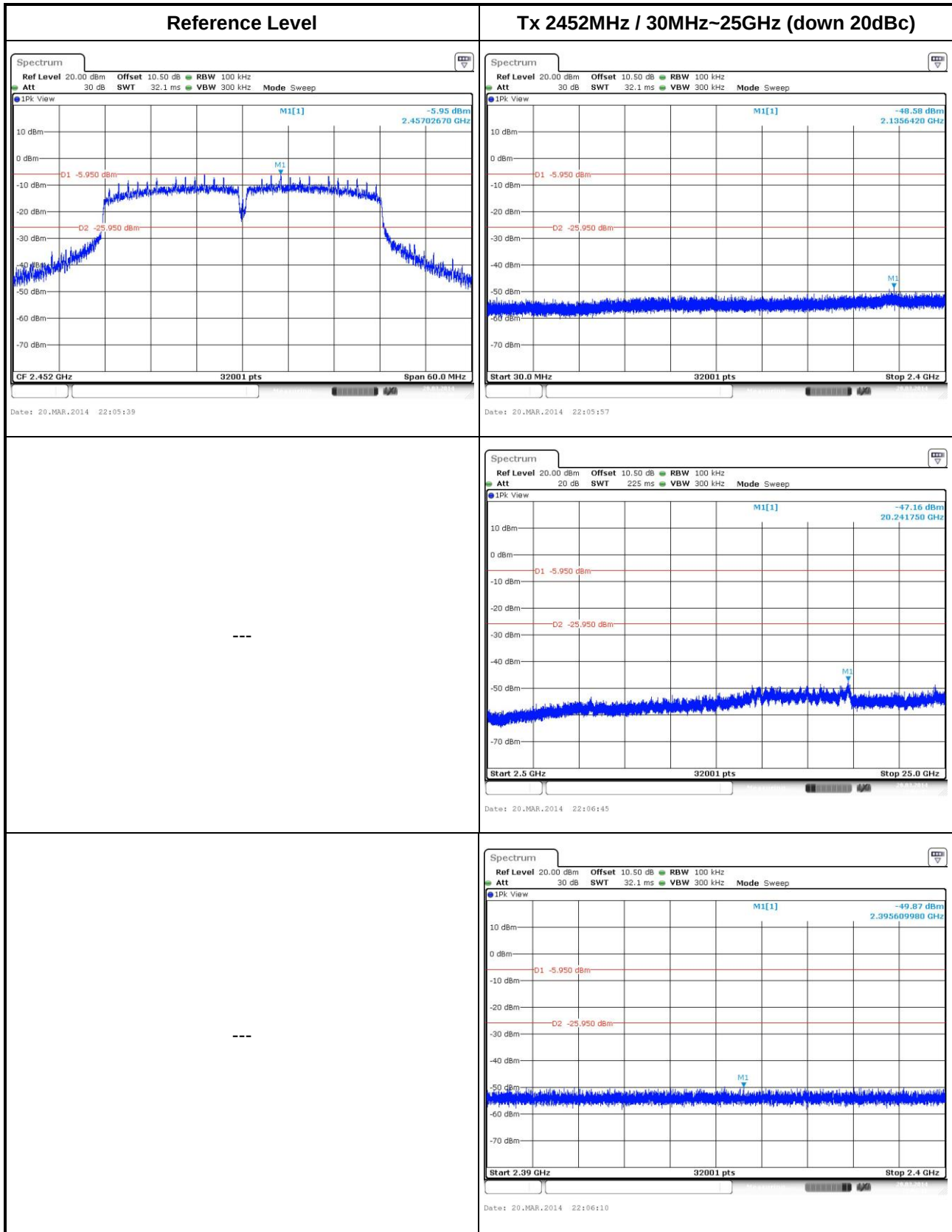




## 802.11n HT40







## 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, 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 Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

### **Linkou**

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin 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 Hsiang, Tao Yuan Hsien 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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