

FCC TEST REPORT
for
Jinan USR IOT Technology Limited

Embedded WIFI Module

Model No.: USR-WIFI232-D2a, USR-WIFI232-D2b, USR-WIFI232-A,
USR-WIFI232-B, USR-WIFI232-Ca, USR-WIFI232-Cb

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Report Number : R011407007E
Date of Test : Jul. 10~ Aug. 18, 2014
Date of Report : Aug. 19, 2014

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TEST REPORT

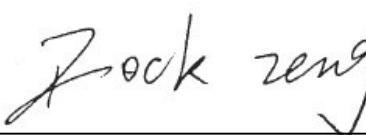
Applicant : Jinan USR IOT Technology Limited
Manufacturer : Jinan USR IOT Technology Limited
EUT : Embedded WIFI Module
Model No. : USR-WIFI232-D2a, USR-WIFI232-D2b, USR-WIFI232-A,
USR-WIFI232-B, USR-WIFI232-Ca, USR-WIFI232-Cb
Serial No. : N.A.
Trade Mark : USR IOT
Rating : DC 3.3V±5%

Measurement Procedure Used:
FCC Part15 Subpart C, Paragraph 15.247

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

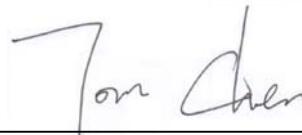
This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test : _____
Jul. 10~ Aug. 18, 2014

Prepared by : _____

(Tested Engineer / Rock Zeng)

Reviewer : _____

(Project Manager / Amy Ding)

Approved & Authorized Signer : _____

(Manager / Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

| | |
|---------------------------|---|
| EUT | : Embedded WIFI Module |
| Model Number | : USR-WIFI232-D2a, USR-WIFI232-D2b, USR-WIFI232-A, USR-WIFI232-B, USR-WIFI232-Ca, USR-WIFI232-Cb (Note: All samples are the same except the model number and appearance, so we prepare “USR-WIFI232-D2a” for EMC test only.) |
| Test Power Supply | : AC 120V/60Hz for adapter |
| Adapter | : Model:FLD052-0501000-UH Input: AC 100-240V, 50/60Hz, 0.15A MAX Output: DC 5.0V, 1.0A |
| RF Transmission Frequency | : 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40)) |
| Channels | : 11 For (802.11b/802.11g/802.11n(HT20)) 7 For (802.11n(HT40)) |
| Modulation | 802.11b CCK 802.11g OFDM 802.11n MCS |
| Antenna Gain: | : 0.4dBi |
| Applicant Address | : Jinan USR IOT Technology Limited #: #1-724~729, Huizhan Guoji Cheng, Gaoxin District, Jinan City, Shandong Province, 250101, China |
| Manufacturer Address | : Jinan USR IOT Technology Limited #: #1-724~729, Huizhan Guoji Cheng, Gaoxin District, Jinan City, Shandong Province, 250101, China |
| Factory Address | : Jinan USR IOT Technology Limited #: #1-724~729, Huizhan Guoji Cheng, Gaoxin District, Jinan City, Shandong Province, 250101, China |
| Date of receipt | : Jul. 10, 2014 |
| Date of Test | : Jul. 10~ Aug. 18, 2014 |

1.2. Auxiliary Equipment Used during Test

N/A

1.3. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS - LAB Code: L3503

Shenzhen Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

FCC-Registration No.: 752021

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752021, July 10, 2013.

IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A, February 22, 2013.

Test Location

All Emissions tests were performed at

Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

1.4. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.3dB

Conduction Uncertainty : Uc = 3.4dB

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4: 2009 and FCC Part 15, Paragraph 15.247.

2.1. Summary of Test Results

The EUT has been tested according to the following specifications:

| Standard | Test Type | Result | Notes |
|--|--|--------|----------|
| FCC Part 15, Paragraph 15.107, 15.207 | Conducted Emission Test | PASS | Complies |
| FCC Part 15, Paragraph 15.247(b)(1) | Peak Output Power | PASS | Complies |
| FCC Part 15, Paragraph 15.247(a)(2) | 6dB Bandwidth | PASS | Complies |
| FCC Part 15, Paragraph 15.247(c) | 100kHz Bandwidth of Frequency Band Edges | PASS | Complies |
| FCC Part 15, Paragraph 15.209(a)(f) | Spurious Emission | PASS | Complies |
| FCC Part 15, Paragraph 15.247(a)(1) | Frequency Separation | - | N/A |
| FCC Part 15, Paragraph 15.247(a)(1)(iii) | Number of Hopping Frequency | - | N/A |
| FCC Part 15, Paragraph 15.247(a)(1)(iii) | Time of Occupancy | - | N/A |
| FCC Part 15, Paragraph 15.247(c) | Peak Power Density | PASS | Complies |

2.2. Description of Test Modes

The EUT has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

IEEE802.11b: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 1 Mbps lowest data rate (worst case) are chosen for the final testing.

IEEE802.11g: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6 Mbps lowest data rate (the worst case) are chosen for the final testing.

IEEE802.11n (HT20): Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with MCS 0 Mbps lowest data rate (the worst case) are chosen for the final testing.

IEEE802.11n (HT40): Channel 3(2422MHz), Channel 6(2437MHz) and Channel 9(2452MHz) with MCS 0 Mbps lowest data rate (the worst case) are chosen for the final testing.

2.3. List of channels:

✓ - available

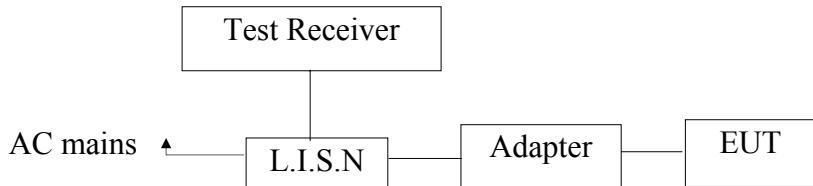
X - tested

| Number | Frequency(MHz) | | 802.11 b/g/n (HT20) | 802.11 b/g/n (HT40) |
|--------|----------------|---|---------------------------|---------------------------|
| 1 | 2412 | ✓ | X | |
| 2 | 2417 | ✓ | | |
| 3 | 2422 | ✓ | | X |
| 4 | 2427 | ✓ | | |
| 5 | 2432 | ✓ | | |
| 6 | 2437 | ✓ | X | X |
| 7 | 2442 | ✓ | | |
| 8 | 2447 | ✓ | | |
| 9 | 2452 | ✓ | | X |
| 10 | 2457 | ✓ | | |
| 11 | 2462 | ✓ | X | |

3. Conducted Emission Test

3.1. Block Diagram of Test Setup

3.1.1. Block diagram of connection between the EUT and simulators



3.2. Power Line Conducted Emission Measurement Limits (15.207)

| Frequency MHz | Limits dB(μ V) | |
|------------------|---------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 66 ~ 56* | 56 ~ 46* |
| 0.50 ~ 5.00 | 56 | 46 |
| 5.00 ~ 30.00 | 60 | 50 |

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT and simulator as shown as Section 3.1.
- 3.4.2. Turn on the power of all equipment.
- 3.4.3. Let the EUT work in test mode (On) and measure it.

3.5. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test results are reported on Section 3.6.

3.6. Test equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------|----------------------|-----------|------------|---------------|---------------|
| 1. | Two-Line V-network | Rohde & Schwarz | ENV216 | 100055 | Apr. 23, 2014 | 1 Year |
| 2. | EMI Test Receiver | Rohde & Schwarz | ESCI | 100627 | Apr. 23, 2014 | 1 Year |
| 3. | RF Switching Unit | Compliance Direction | RSU-M2 | 38303 | Apr. 23, 2014 | 1 Year |

3.7. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150KHz to 30 MHz is investigated.

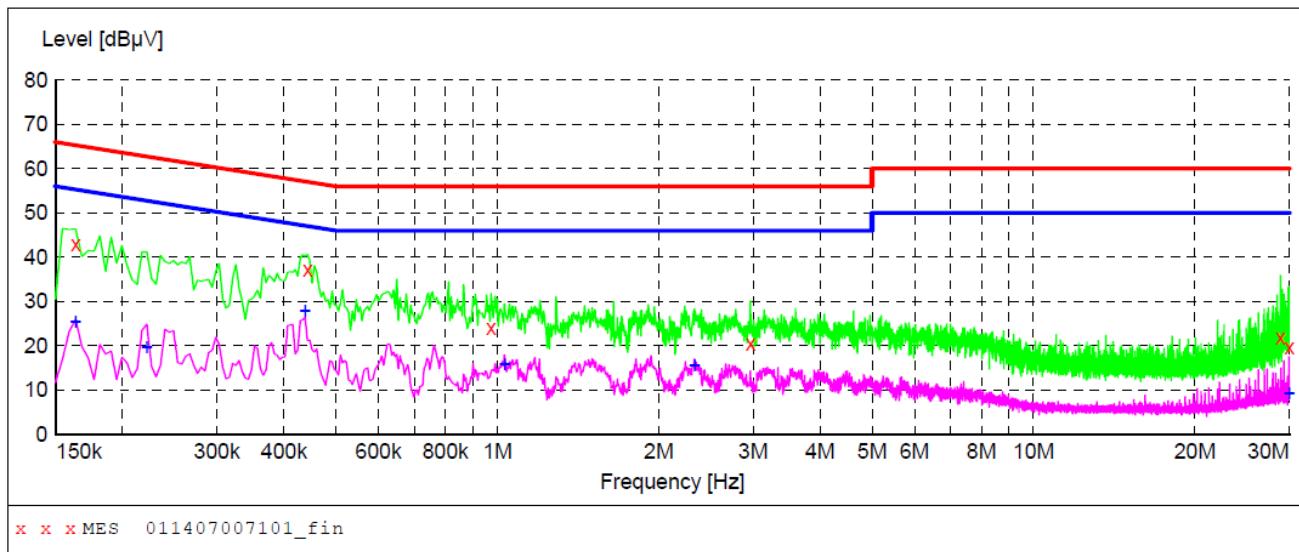
Please refer the following pages.

CONDUCTED EMISSION TEST DATA

Test Site: 1# Shielded Room
 Operating Condition: On
 Test Specification: AC 120V/60Hz for Adapter
 Comment: Live Line
 Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages



MEASUREMENT RESULT: "011407007101_fin"

| 7/16/2014 4:16PM | Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------|------------------|-----------|------------------|-----------|----------|------|-----|
| | 0.163500 | 42.80 | 20.1 | 65 | 22.5 | QP | L1 | GND |
| | 0.442500 | 37.30 | 20.1 | 57 | 19.7 | QP | L1 | GND |
| | 0.973500 | 24.10 | 20.2 | 56 | 31.9 | QP | L1 | GND |
| | 2.966500 | 20.50 | 20.4 | 56 | 35.5 | QP | L1 | GND |
| | 28.895500 | 21.80 | 20.9 | 60 | 38.2 | QP | L1 | GND |
| | 29.989000 | 19.50 | 20.9 | 60 | 40.5 | QP | L1 | GND |

MEASUREMENT RESULT: "011407007101_fin2"

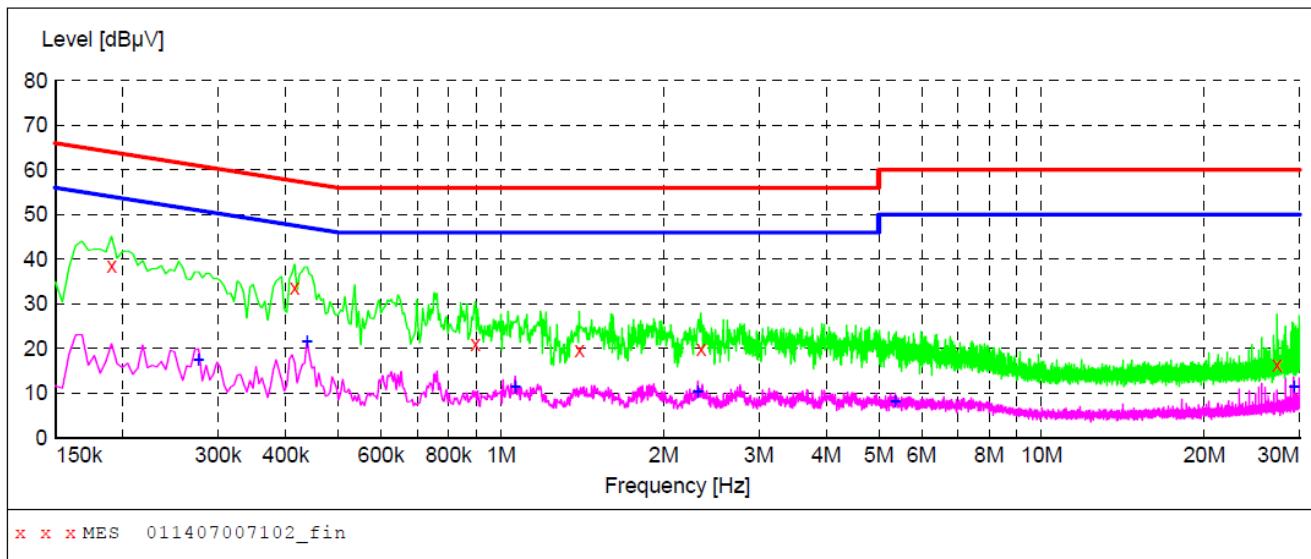
| 7/16/2014 4:16PM | Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------|------------------|-----------|------------------|-----------|----------|------|-----|
| | 0.163500 | 25.30 | 20.1 | 55 | 30.0 | AV | L1 | GND |
| | 0.222000 | 19.50 | 20.1 | 53 | 33.2 | AV | L1 | GND |
| | 0.438000 | 28.00 | 20.1 | 47 | 19.1 | AV | L1 | GND |
| | 1.031500 | 15.90 | 20.2 | 46 | 30.1 | AV | L1 | GND |
| | 2.332000 | 15.60 | 20.3 | 46 | 30.4 | AV | L1 | GND |
| | 29.989000 | 9.10 | 20.9 | 50 | 40.9 | AV | L1 | GND |

CONDUCTED EMISSION TEST DATA

Test Site: 1# Shielded Room
 Operating Condition: On
 Test Specification: AC 120V/60Hz for Adapter
 Comment: Neutral Line
 Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages


MEASUREMENT RESULT: "011407007102_fin"

7/16/2014 4:19PM

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.190500 | 38.50 | 20.1 | 64 | 25.5 | QP | N | GND |
| 0.415500 | 33.50 | 20.1 | 58 | 24.0 | QP | N | GND |
| 0.897000 | 21.00 | 20.1 | 56 | 35.0 | QP | N | GND |
| 1.396000 | 19.70 | 20.2 | 56 | 36.3 | QP | N | GND |
| 2.345500 | 19.90 | 20.3 | 56 | 36.1 | QP | N | GND |
| 27.271000 | 16.30 | 20.9 | 60 | 43.7 | QP | N | GND |

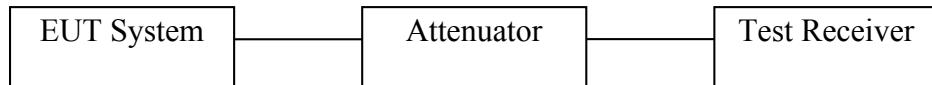
MEASUREMENT RESULT: "011407007102_fin2"

7/16/2014 4:19PM

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.276000 | 17.50 | 20.1 | 51 | 33.4 | AV | N | GND |
| 0.438000 | 21.50 | 20.1 | 47 | 25.6 | AV | N | GND |
| 1.063000 | 11.30 | 20.2 | 46 | 34.7 | AV | N | GND |
| 2.314000 | 10.40 | 20.3 | 46 | 35.6 | AV | N | GND |
| 5.365000 | 8.10 | 20.5 | 50 | 41.9 | AV | N | GND |
| 29.287000 | 11.30 | 20.9 | 50 | 38.7 | AV | N | GND |

4. FCC Part 15.247 Requirements for DSSS & OFDM Modulation

4.1 Test Setup



4.2 6dB Bandwidth

a. Limit

For the direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

b. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
 RBW = 100kHz, VBW $\geq 3 \times$ RBW = 300kHz,
 Detector = Peak
 Trace mode = Max hold.
 Sweep - auto couple.
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

c. Test Setup See 4.1

d. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------------------|-------------------------|-----------|------------|---------------|---------------|
| 1. | Spectrum Analysis | Agilent | E4407B | US39390582 | Aug. 09, 2014 | 1 Year |
| 2. | Preamplifier | Instruments corporation | EMC011830 | 980100 | Aug. 09, 2014 | 1 Year |
| 3. | EMI Test Receiver | Rohde & Schwarz | ESPI | 101604 | Apr. 23, 2014 | 1 Year |
| 4. | Double Ridged Horn Antenna | Instruments corporation | GTH-0118 | 351600 | Aug. 09, 2013 | 3 Year |
| 5. | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | N/A | N/A |

e. Test Results

Pass.

f. Test Data

Test mode: IEEE 802.11b

| Channel | Frequency (MHz) | Bandwidth (MHz) | Limit (kHz) | Results |
|---------|--------------------|--------------------|----------------|---------|
| Low | 2412 | 11.76 | | Pass |
| Mid | 2437 | 11.76 | >500 | Pass |
| High | 2462 | 11.76 | | Pass |

Test mode: IEEE 802.11g

| Channel | Frequency (MHz) | Bandwidth (MHz) | Limit (kHz) | Results |
|---------|--------------------|--------------------|----------------|---------|
| Low | 2412 | 16.48 | | Pass |
| Mid | 2437 | 16.48 | >500 | Pass |
| High | 2462 | 16.48 | | Pass |

Test mode: IEEE 802.11n (HT20)

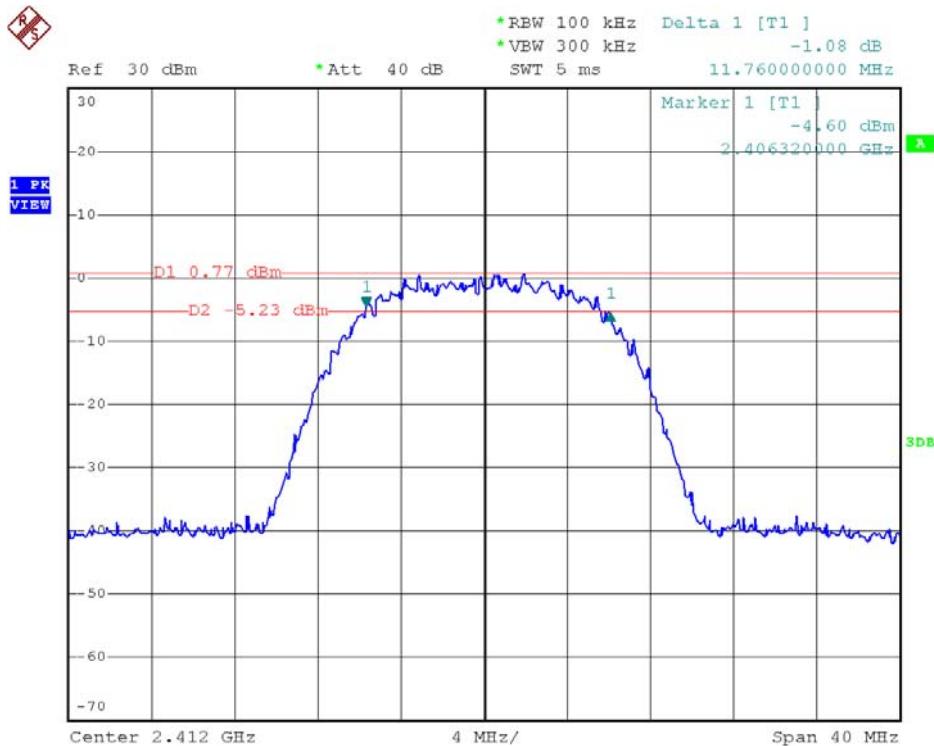
| Channel | Frequency (MHz) | Bandwidth (MHz) | Limit (kHz) | Results |
|---------|--------------------|--------------------|----------------|---------|
| Low | 2412 | 17.68 | | Pass |
| Mid | 2437 | 17.68 | >500 | Pass |
| High | 2462 | 17.68 | | Pass |

Test mode: IEEE 802.11n (HT40)

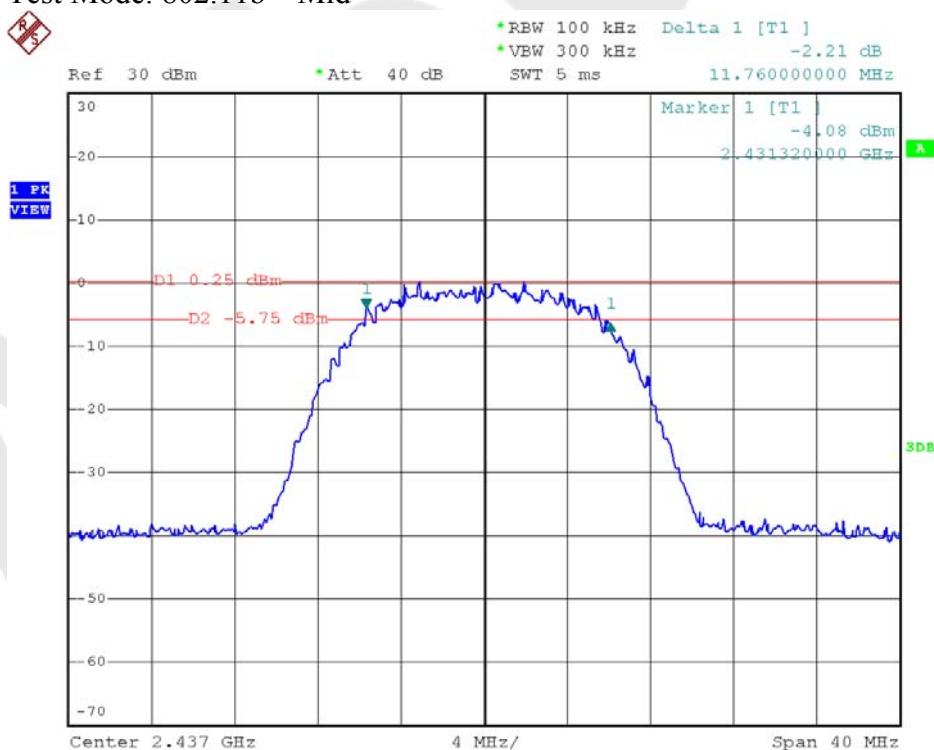
| Channel | Frequency (MHz) | Bandwidth (MHz) | Limit (kHz) | Results |
|---------|--------------------|--------------------|----------------|---------|
| Low | 2422 | 35.84 | | Pass |
| Mid | 2437 | 35.84 | >500 | Pass |
| High | 2452 | 35.84 | | Pass |

Test Plots See the following page.

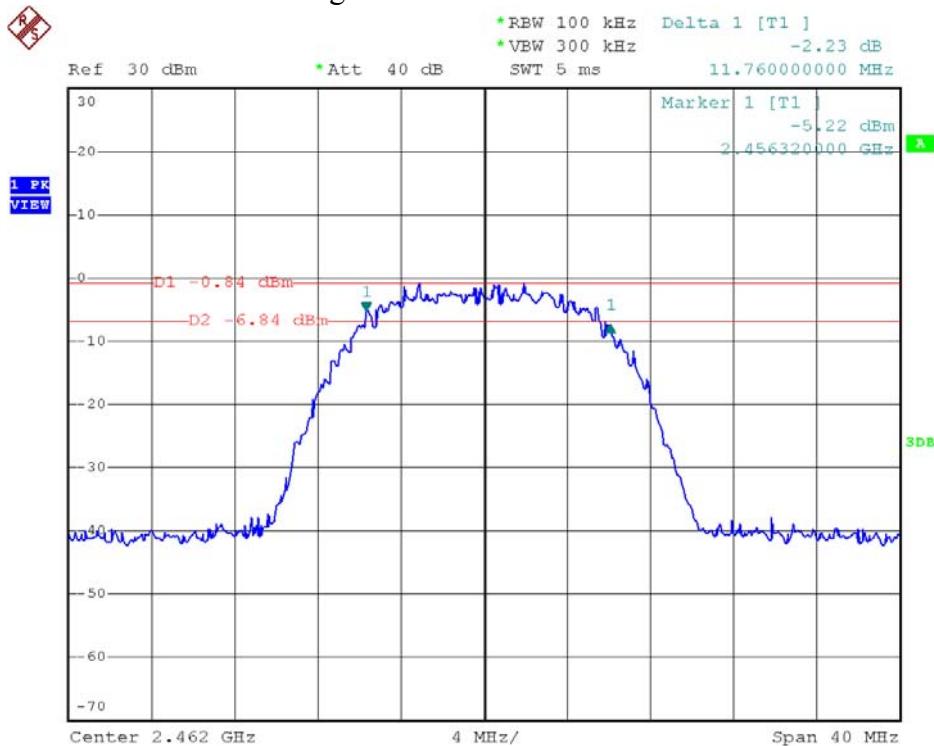
Test Mode: 802.11b---Low



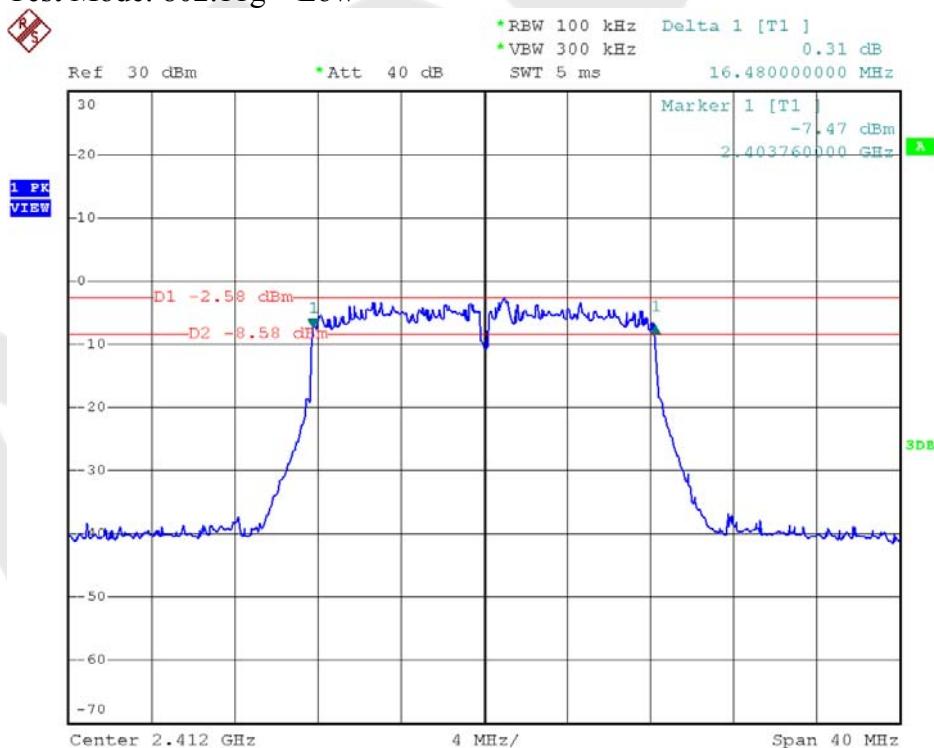
Test Mode: 802.11b---Mid



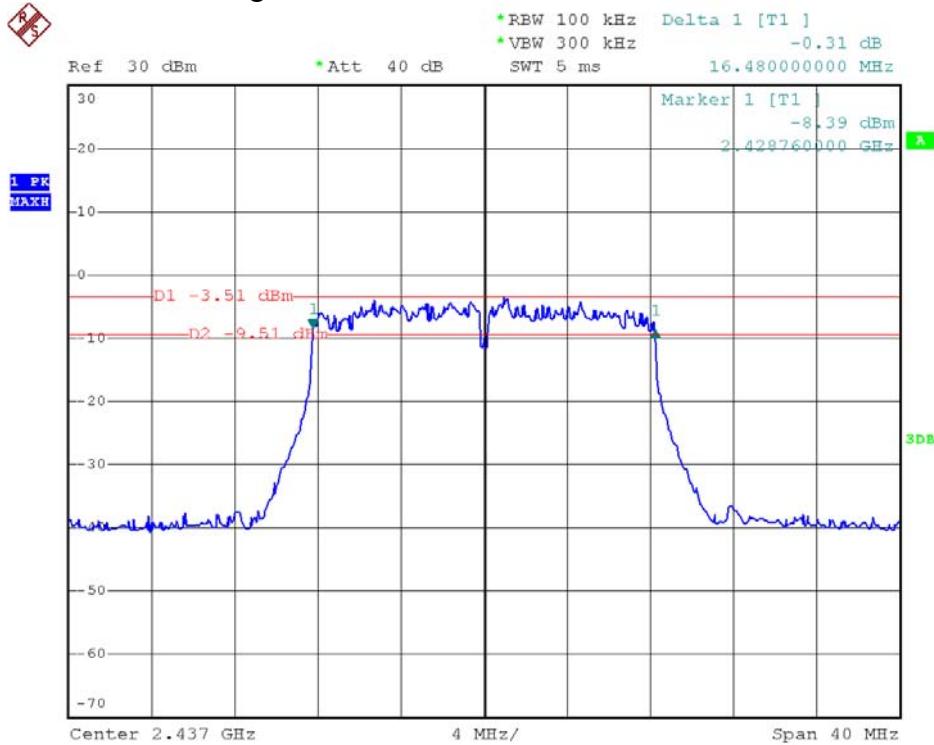
Test Mode: 802.11b---High



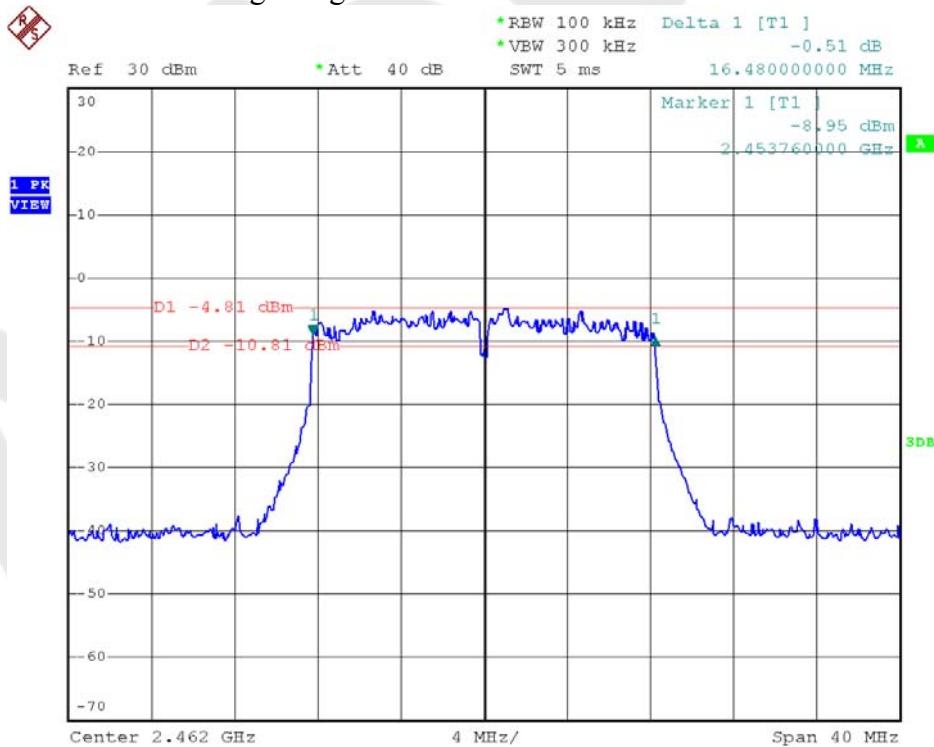
Test Mode: 802.11g---Low



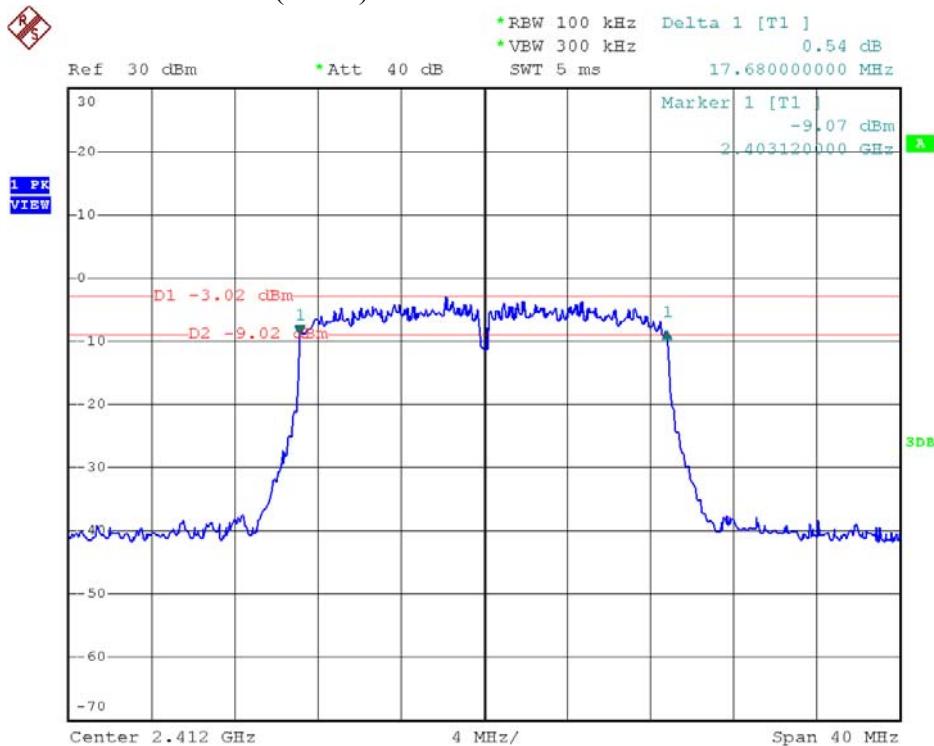
Test Mode: 802.11g---Mid



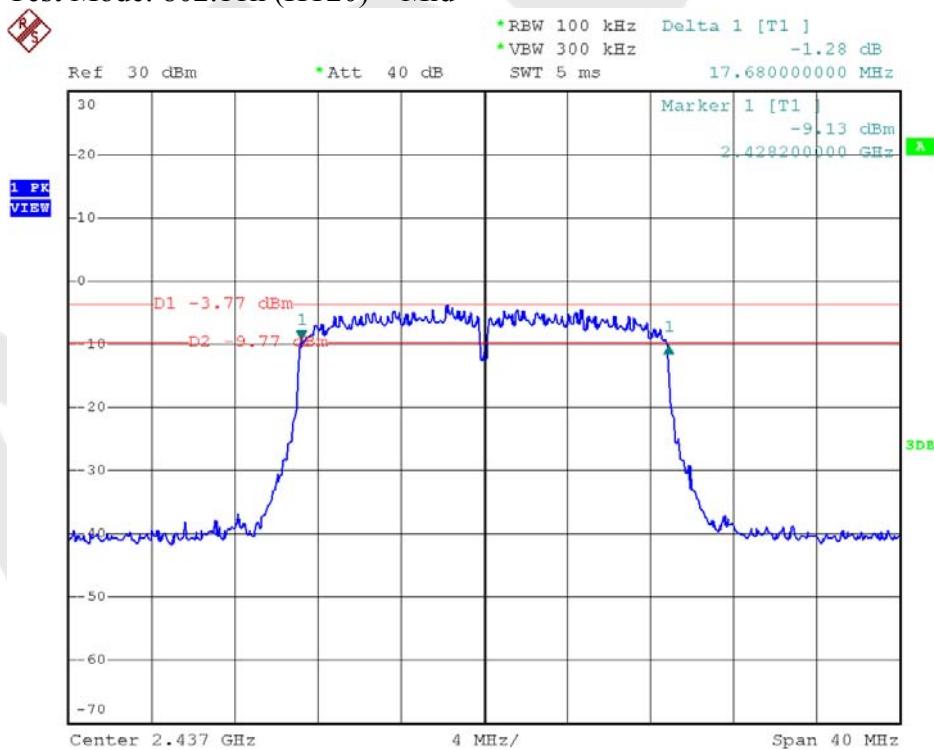
Test Mode: 802.11g---High



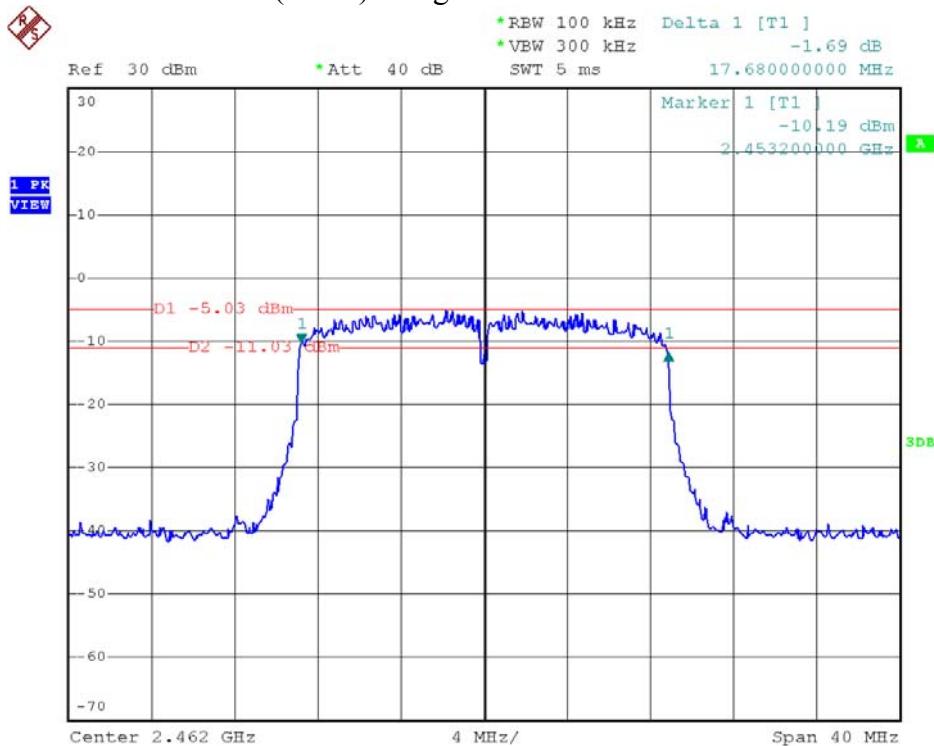
Test Mode: 802.11n (HT20)---Low



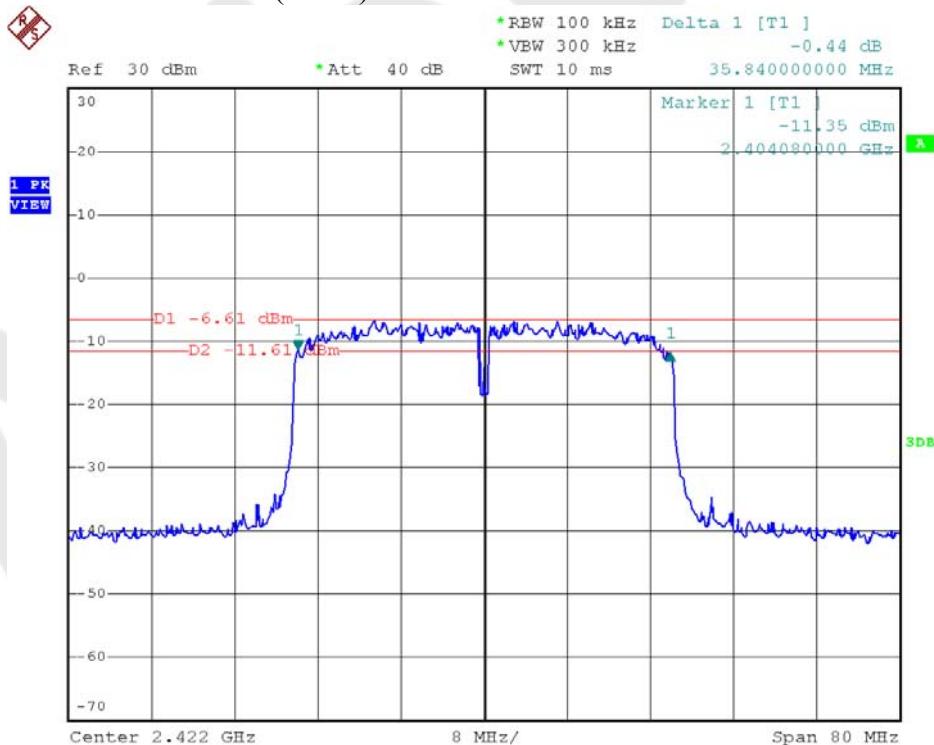
Test Mode: 802.11n (HT20)---Mid



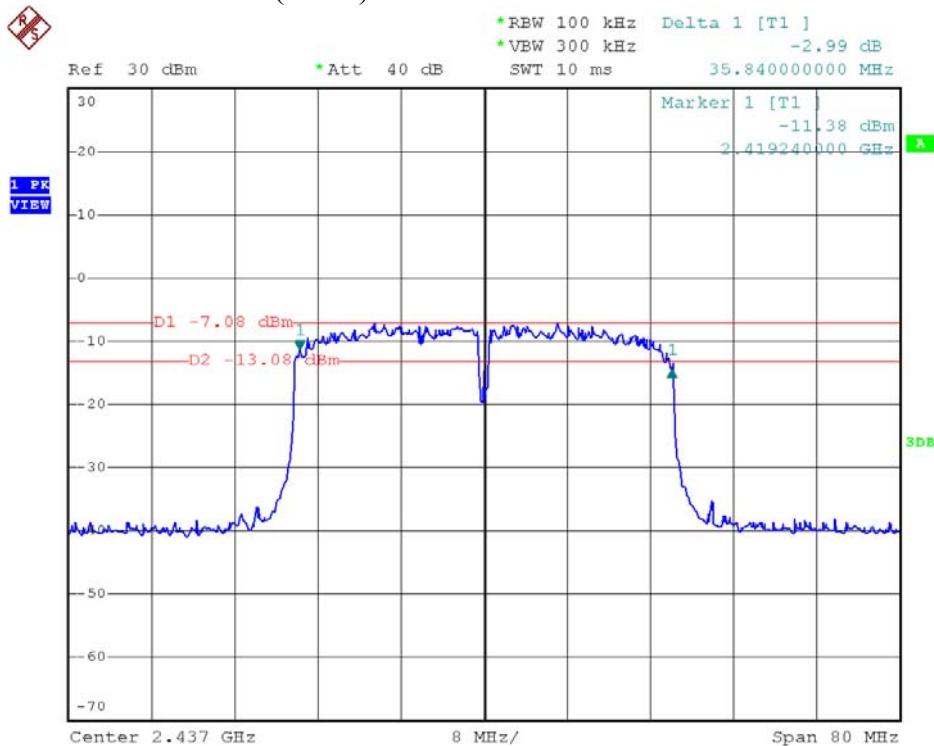
Test Mode: 802.11n (HT20)---High



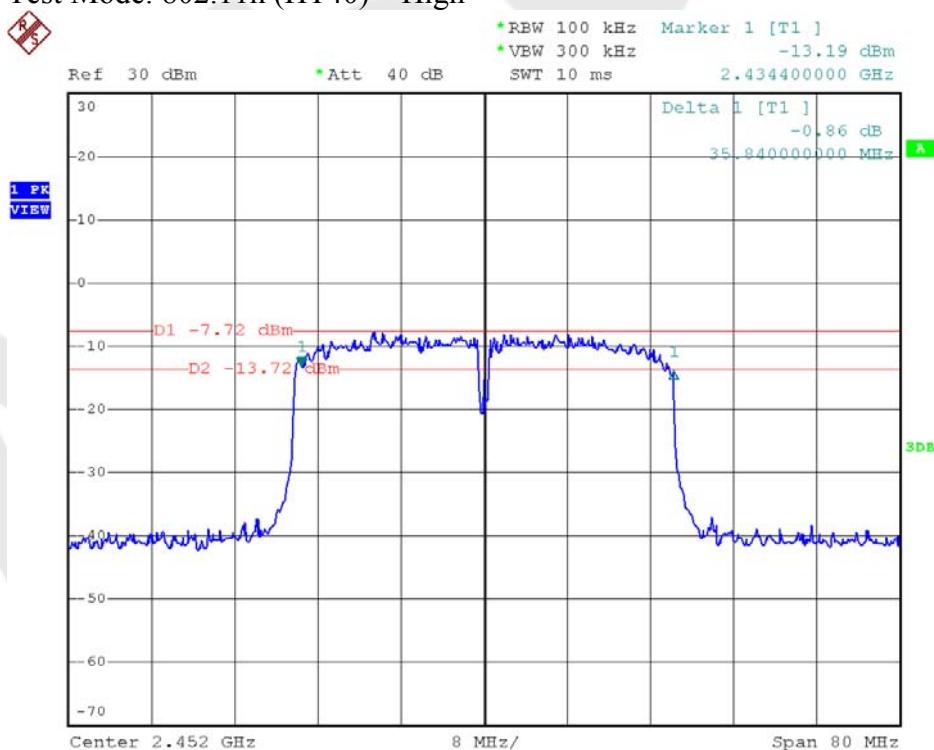
Test Mode: 802.11n (HT40)---Low



Test Mode: 802.11n (HT40)---Mid



Test Mode: 802.11n (HT40)---High



4.3. Maximum Peak output power test

a. Limit

The maximum peak output power of the intentional radiator shall not exceed the following:

1. For systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 watt (30dBm).
2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antenna of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

b. Configuration of Measurement



c. Data Rates

IEEE802.11b: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 1 Mbps data rate (worst case) are chosen for the final testing.

IEEE802.11g: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6 Mbps data rate (the worst case) are chosen for the final testing.

IEEE802.11n (HT20: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6.5Mbps data rate (the worst case) are chosen for the final testing.

IEEE802.11n (HT40: Channel 3(2422MHz), Channel 6(2437MHz) and Channel 9(2452MHz) with 13.5Mbps data rate (the worst case) are chosen for the final testing.

d. Test Procedure

This test was according the kDB 558074 9.1.2:

1. This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.
2. Set the RBW = 1 MHz.
3. Set the VBW $\geq 3 \times \text{RBW} = 3 \text{ MHz}$.
4. Set the span $\geq 1.5 \times \text{DTS bandwidth}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

e. Test Equipment

Same as the equipment listed in 4.2.

f. Test Results

Pass.

g. Test Data

Test mode: IEEE 802.11b

| Channel | Frequency (MHz) | Maximum transmit power | Limit | | Result |
|---------|--------------------|------------------------|-------|---------|--------|
| | | (dBm) | (dBm) | (watts) | |
| Low | 2412 | 18.29 | 30 | 1 | Pass |
| Mid | 2437 | 17.58 | | | Pass |
| High | 2462 | 16.52 | | | Pass |

Test mode: IEEE 802.11g

| Channel | Frequency (MHz) | Maximum transmit power | Limit | | Result |
|---------|--------------------|------------------------|-------|---------|--------|
| | | (dBm) | (dBm) | (watts) | |
| Low | 2412 | 17.77 | 30 | 1 | Pass |
| Mid | 2437 | 17.17 | | | Pass |
| High | 2462 | 16.07 | | | Pass |

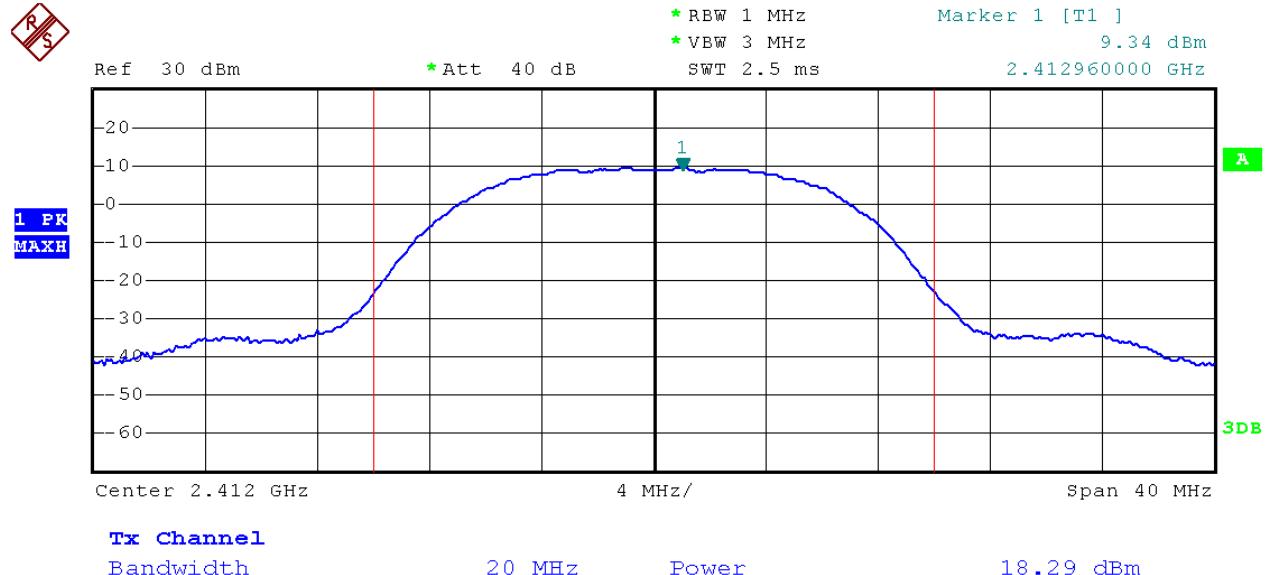
Test mode: IEEE 802.11n (HT20)

| Channel | Frequency (MHz) | Maximum transmit power | Limit | | Result |
|---------|--------------------|------------------------|-------|---------|--------|
| | | (dBm) | (dBm) | (watts) | |
| Low | 2412 | 17.51 | 30 | 1 | Pass |
| Mid | 2437 | 17.01 | | | Pass |
| High | 2462 | 15.91 | | | Pass |

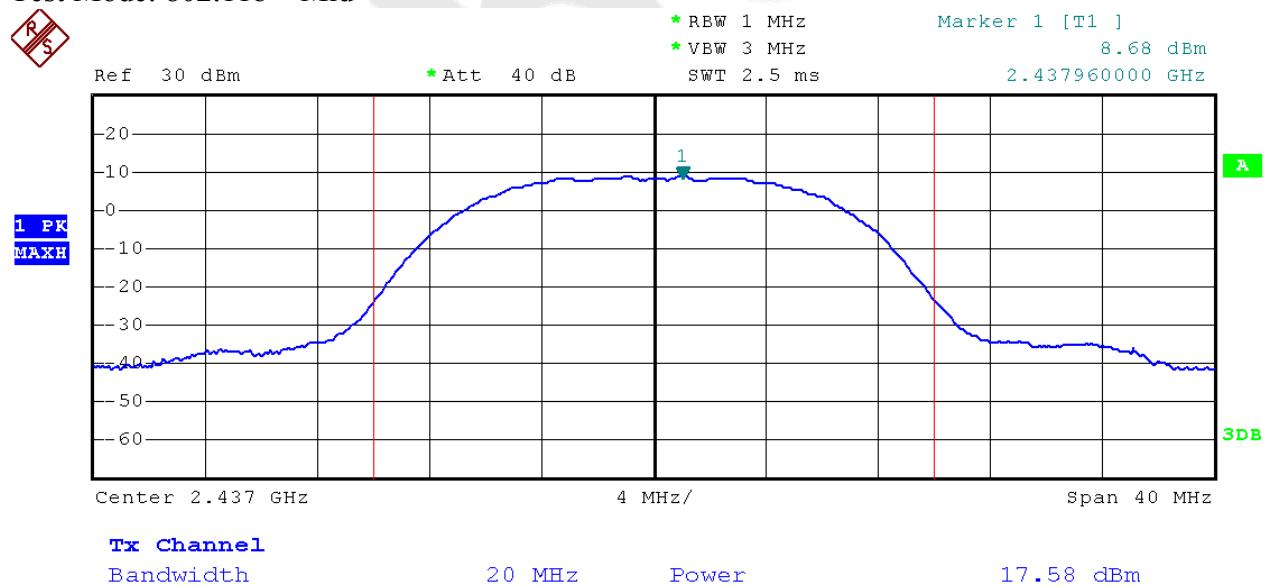
Test mode: IEEE 802.11n (HT40)

| Channel | Frequency (MHz) | Maximum transmit power | Limit | | Result |
|---------|--------------------|------------------------|-------|---------|--------|
| | | (dBm) | (dBm) | (watts) | |
| Low | 2422 | 16.82 | 30 | 1 | Pass |
| Mid | 2437 | 17.02 | | | Pass |
| High | 2452 | 16.25 | | | Pass |

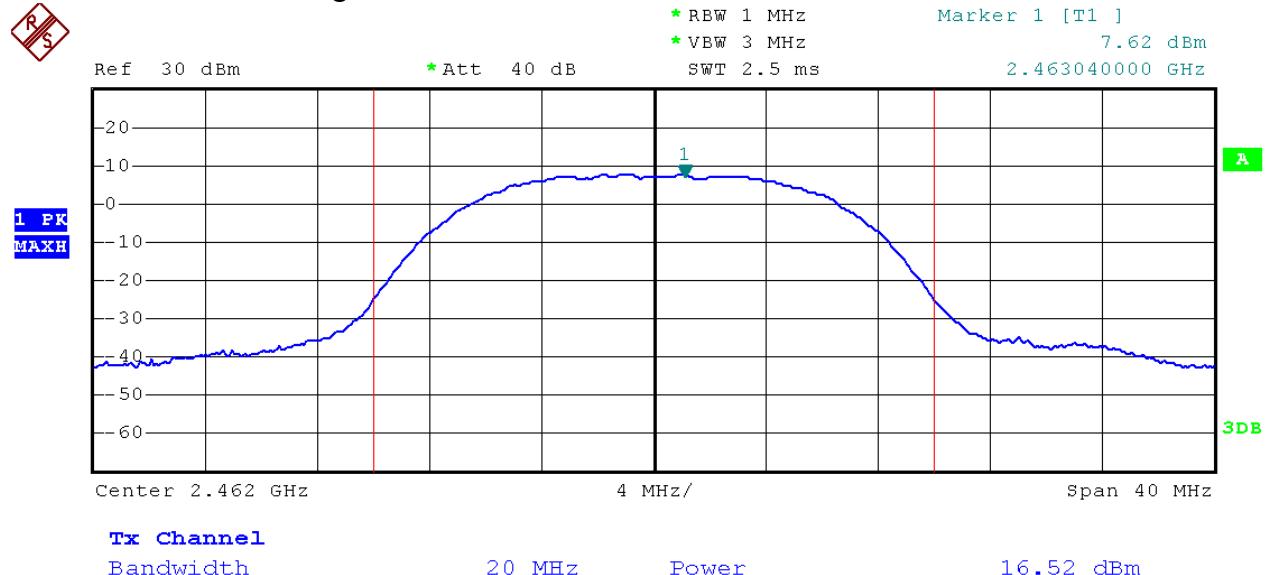
Test Mode: 802.11b---Low



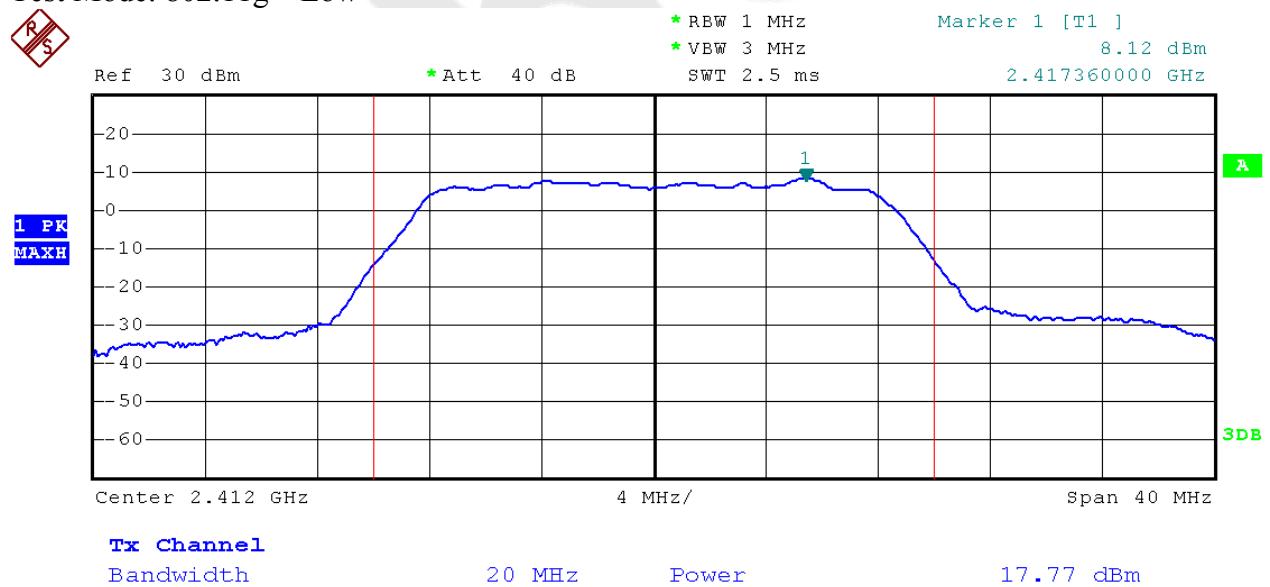
Test Mode: 802.11b---Mid



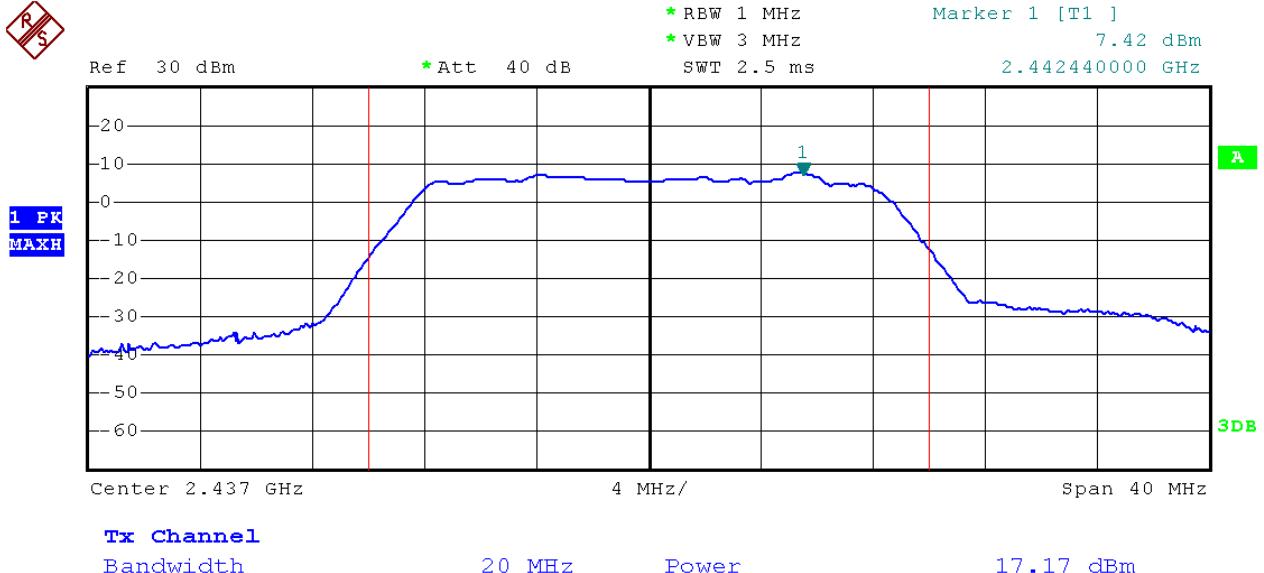
Test Mode: 802.11b---High



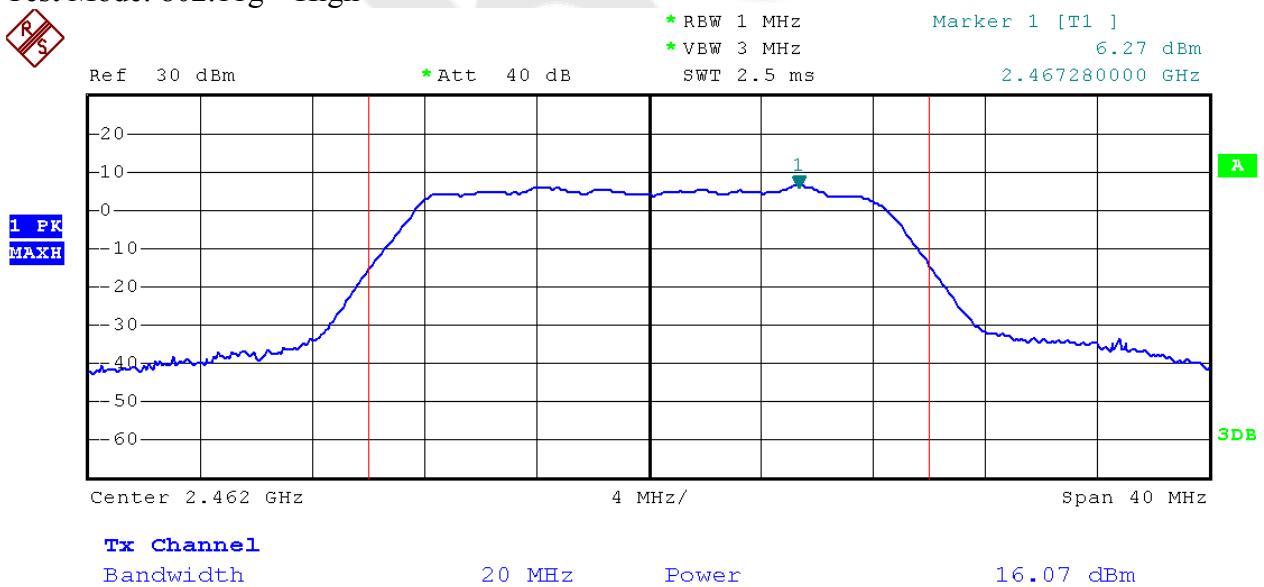
Test Mode: 802.11g---Low



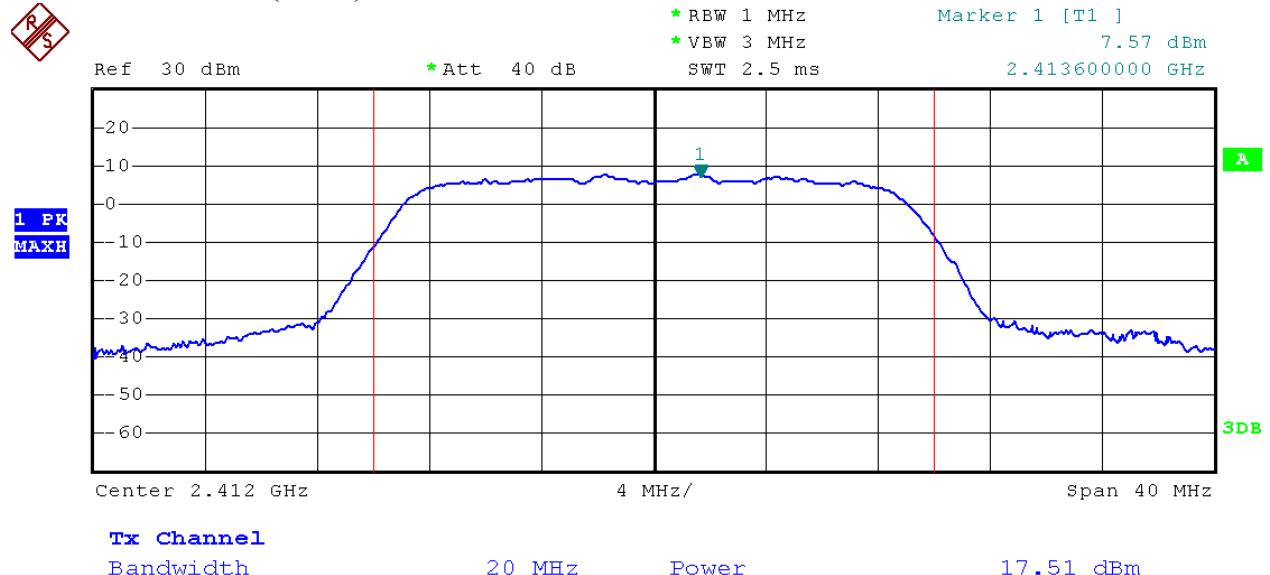
Test Mode: 802.11g---Mid



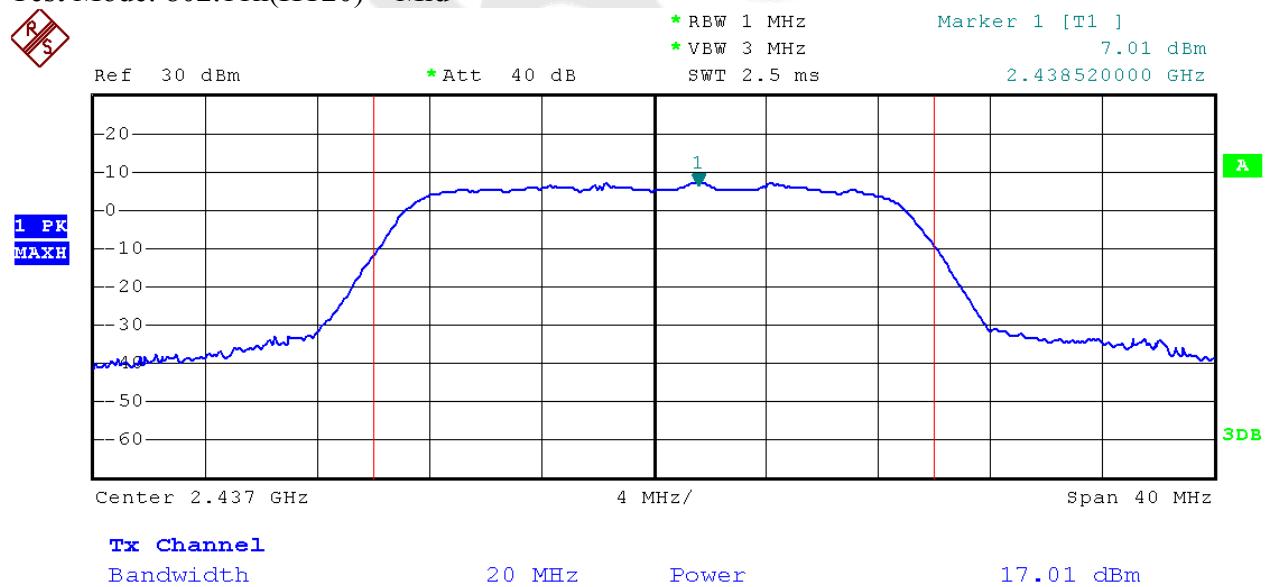
Test Mode: 802.11g---High



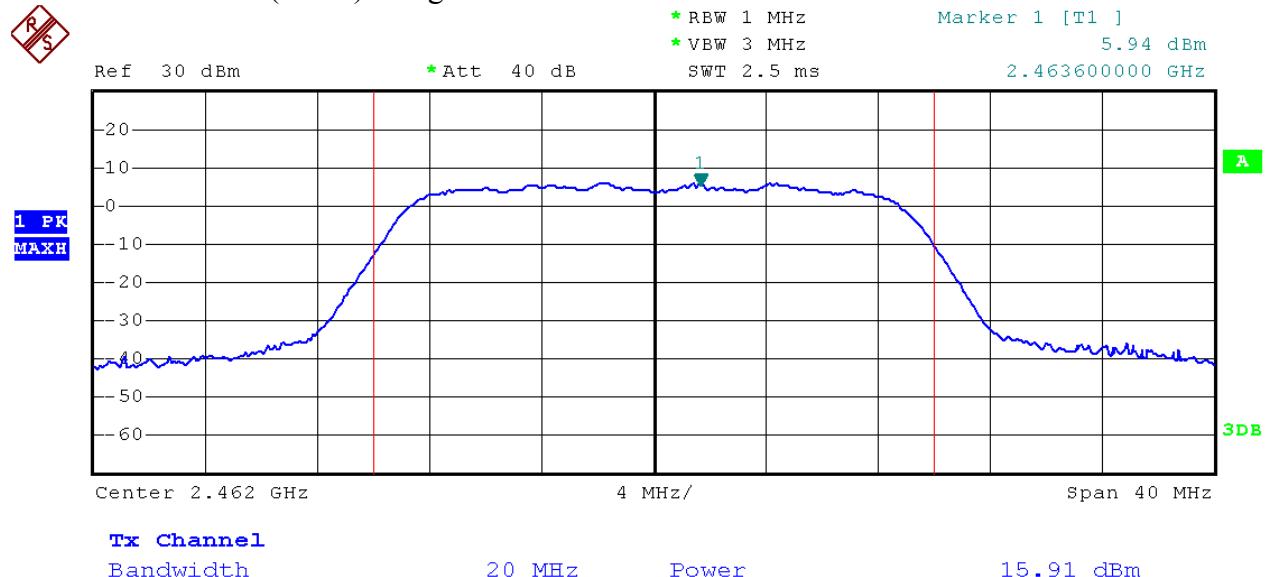
Test Mode: 802.11n(HT20)---Low



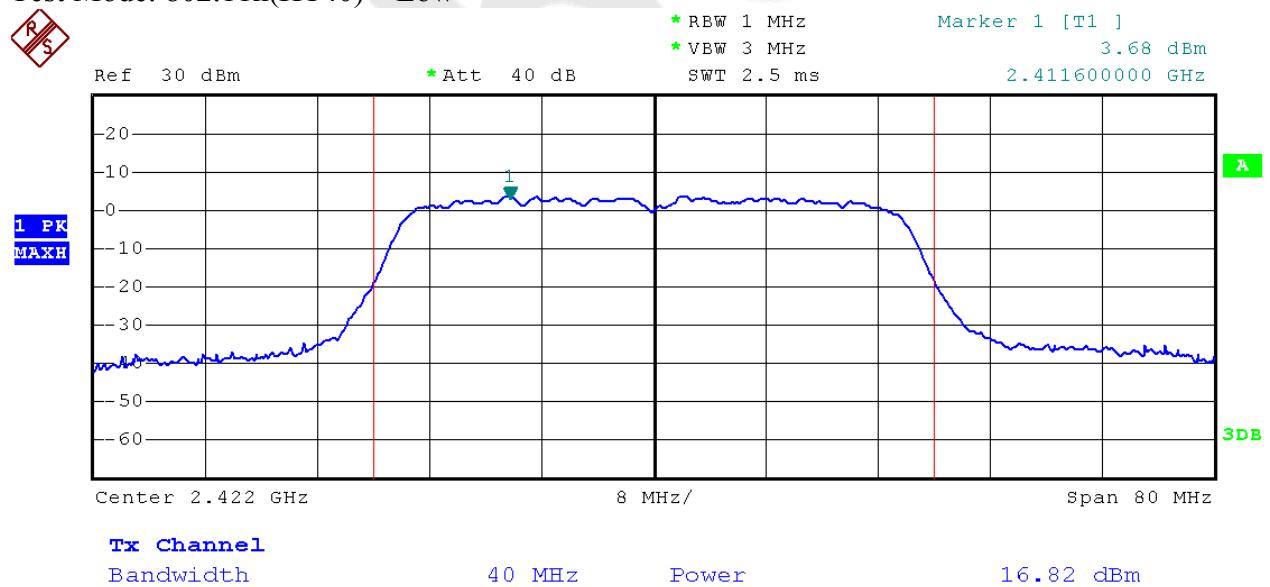
Test Mode: 802.11n(HT20)---Mid



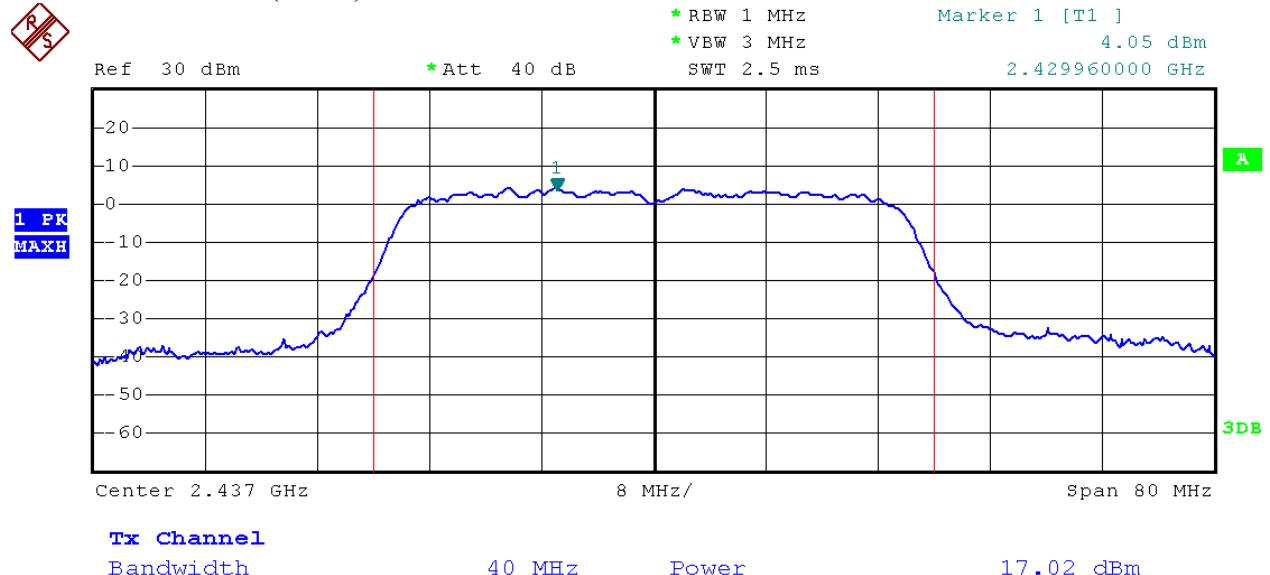
Test Mode: 802.11n(HT20)---High



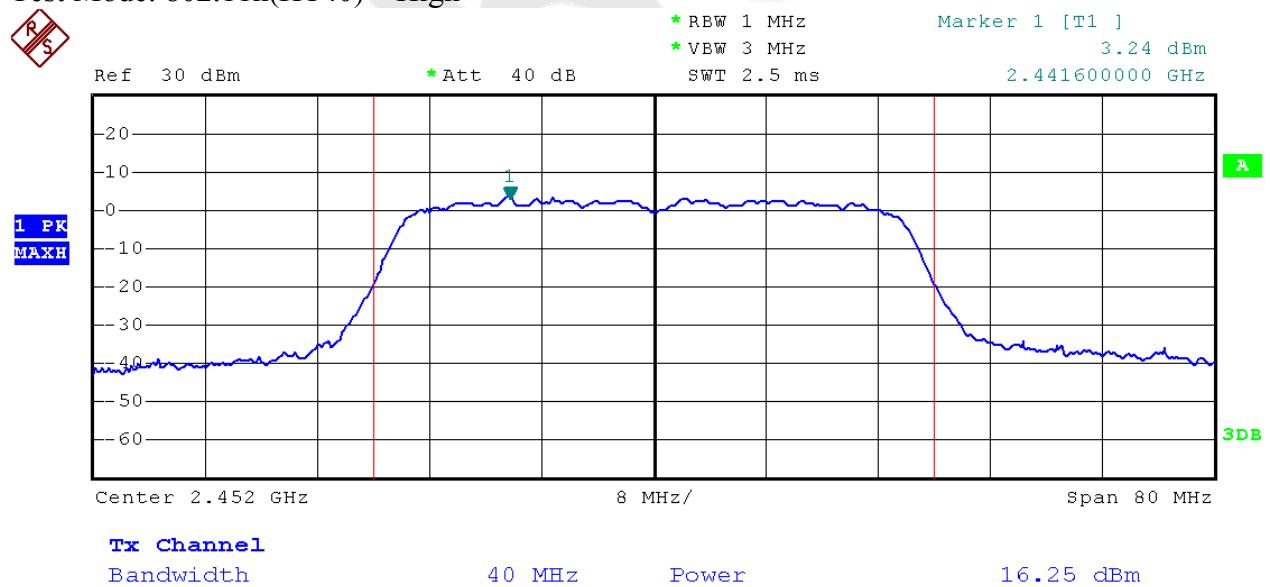
Test Mode: 802.11n(HT40)---Low



Test Mode: 802.11n(HT40)---Mid



Test Mode: 802.11n(HT40)---High



4.4. Band Edges Measurement

a. Limit

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

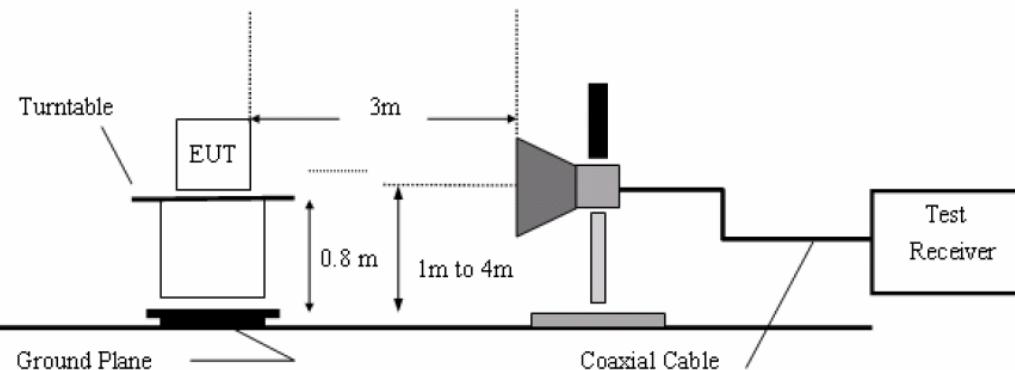
b. Test Procedure

1. Conducted Method:

- 1) Set RBW=100KHz, VBW=300KHz
- 2) Detector=peak
- 3) Sweep time= auto
- 4) Trace mode=max hold.

2. Radiated Method:

- 1) The EUT is placed on a turntable, which is 0.8m above the ground plane.
- 2) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4) Peak detector: RBW=1MHz, VBW=3MHz, SWT=AUTO
Average detector: RBW=1MHz, VBW=10Hz, SWT=AUTO
The EUT is tested in 9*6*6 Chamber.
- 5) Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.



c. Test Equipment

Same as the equipment listed in 4.2.

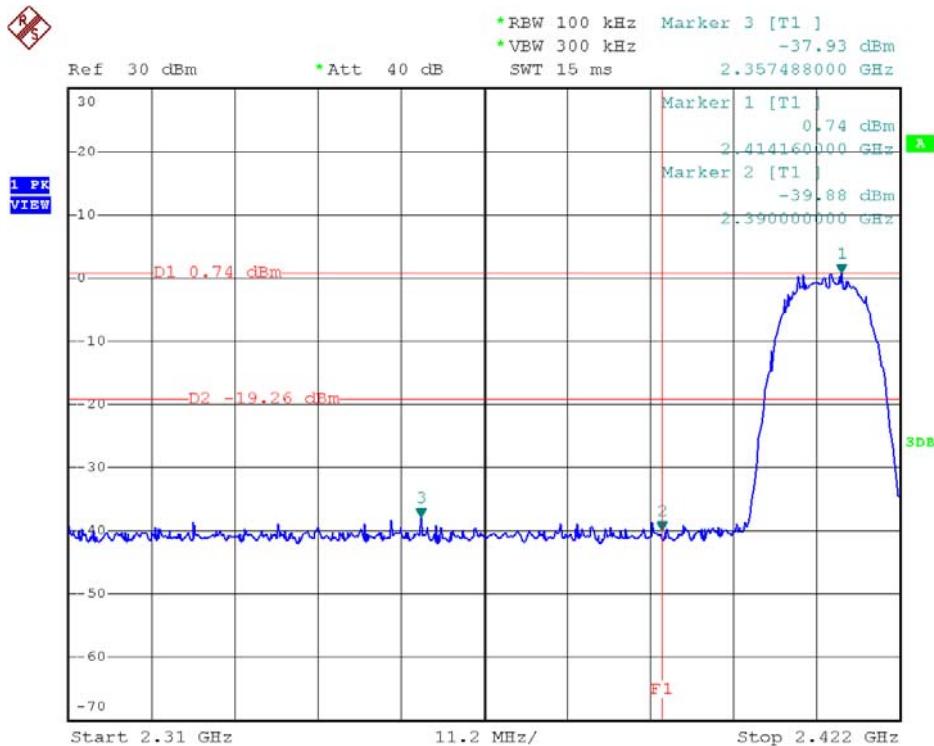
d. Test Results

Pass.

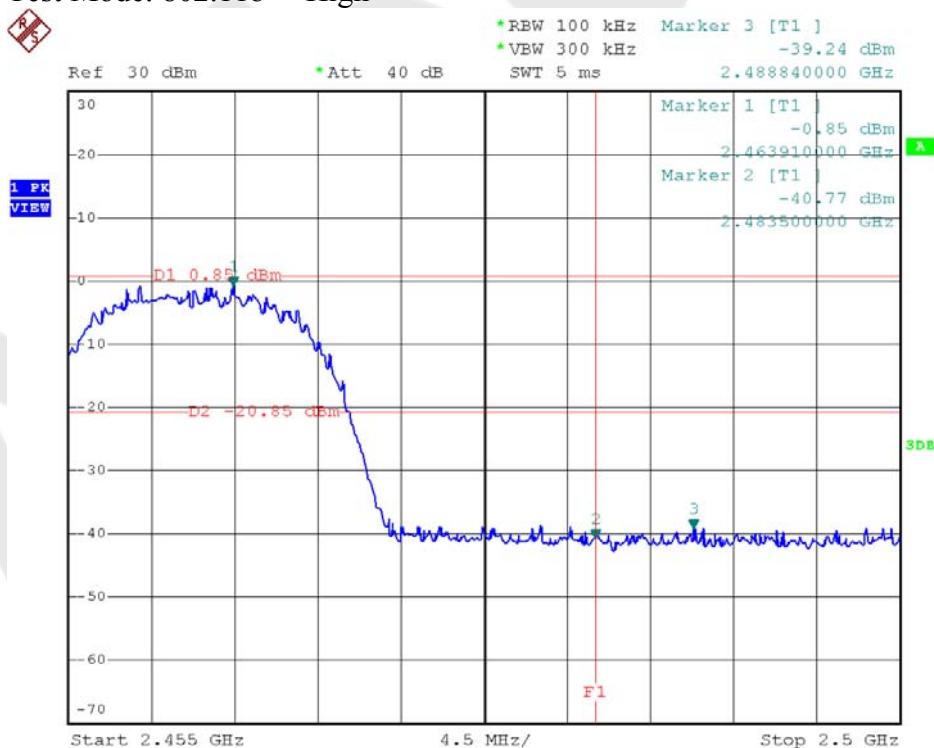
e. Test Plots

See the following page.

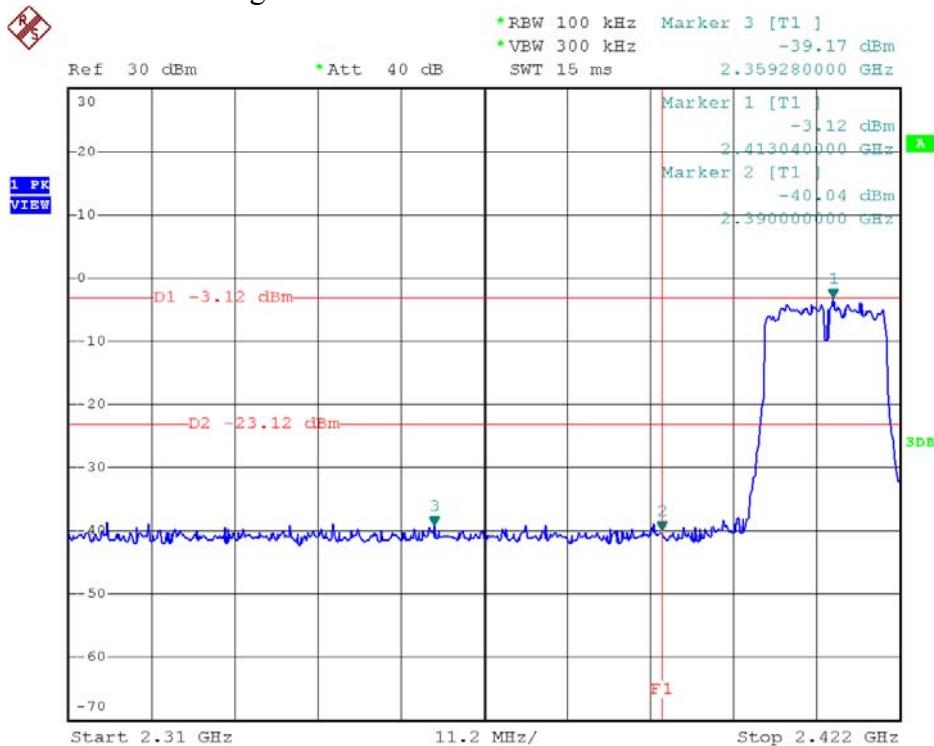
Test Mode: 802.11b ---Low



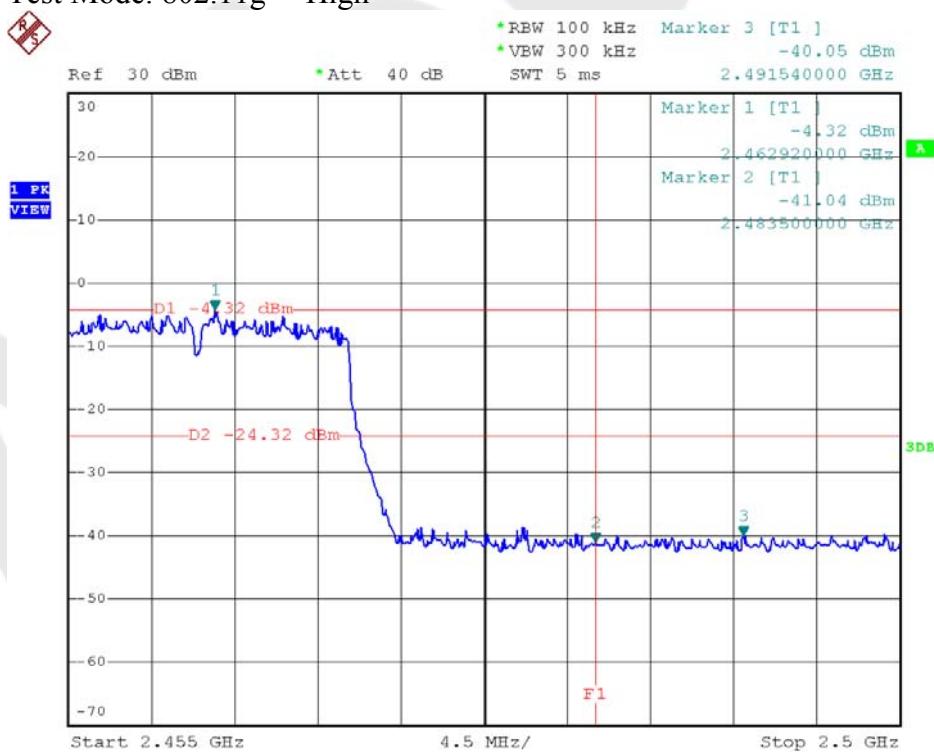
Test Mode: 802.11b ---High



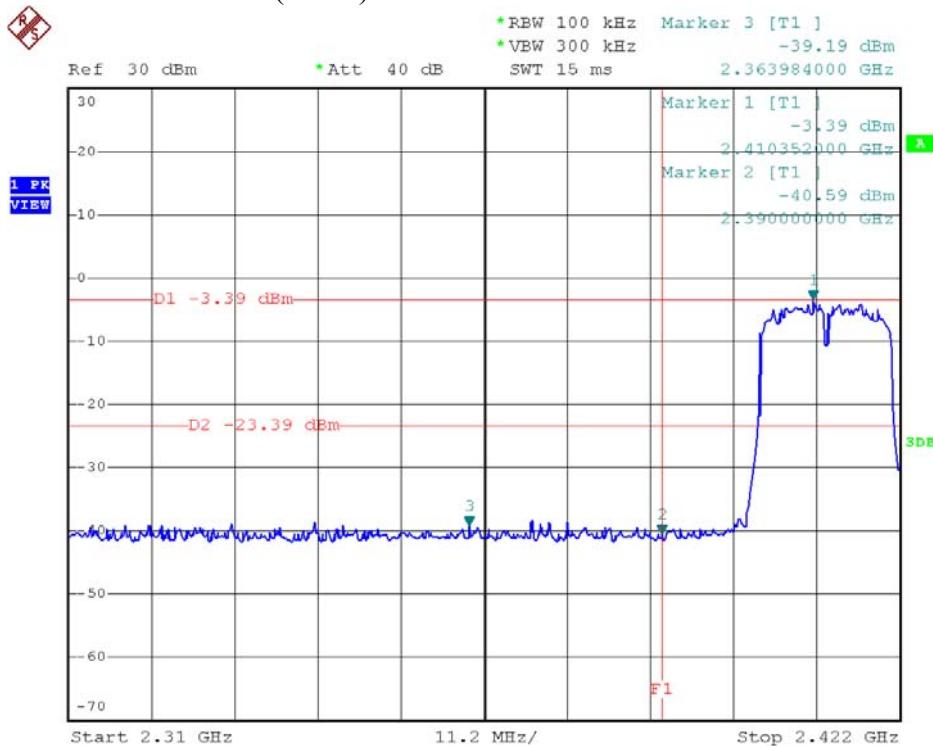
Test Mode: 802.11g ---Low



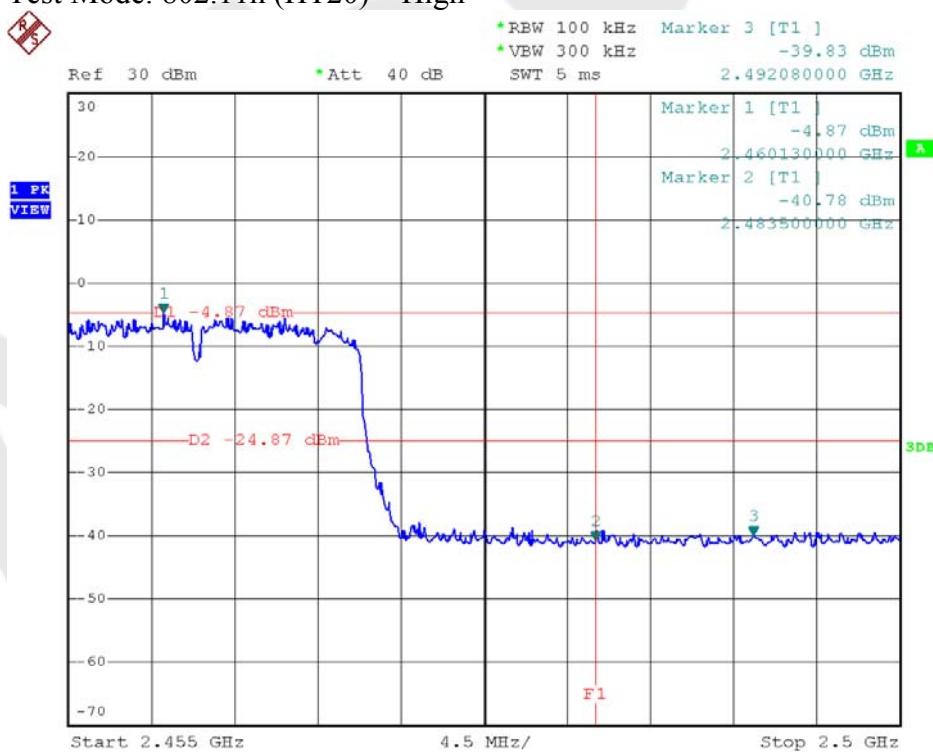
Test Mode: 802.11g ---High



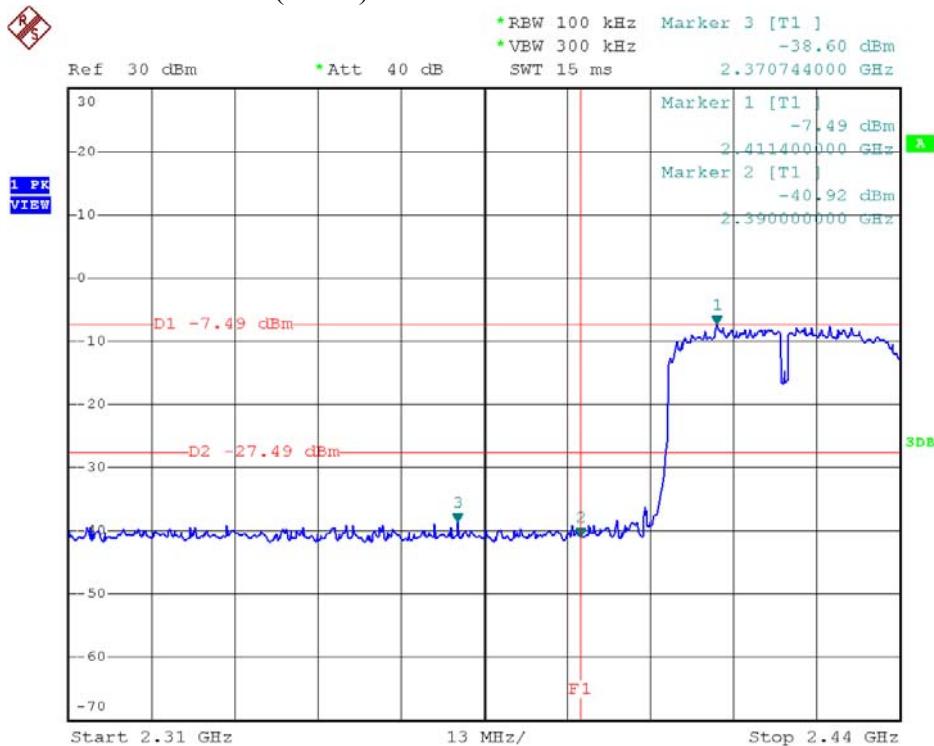
Test Mode: 802.11n (HT20) ---Low



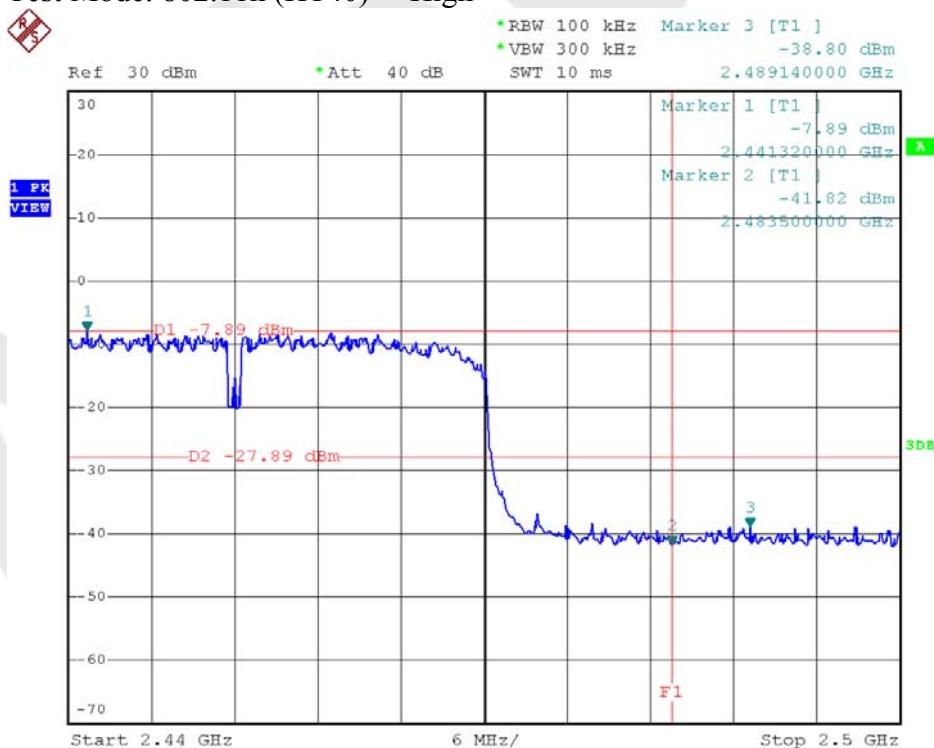
Test Mode: 802.11n (HT20)---High



Test Mode: 802.11n (HT40) ---Low



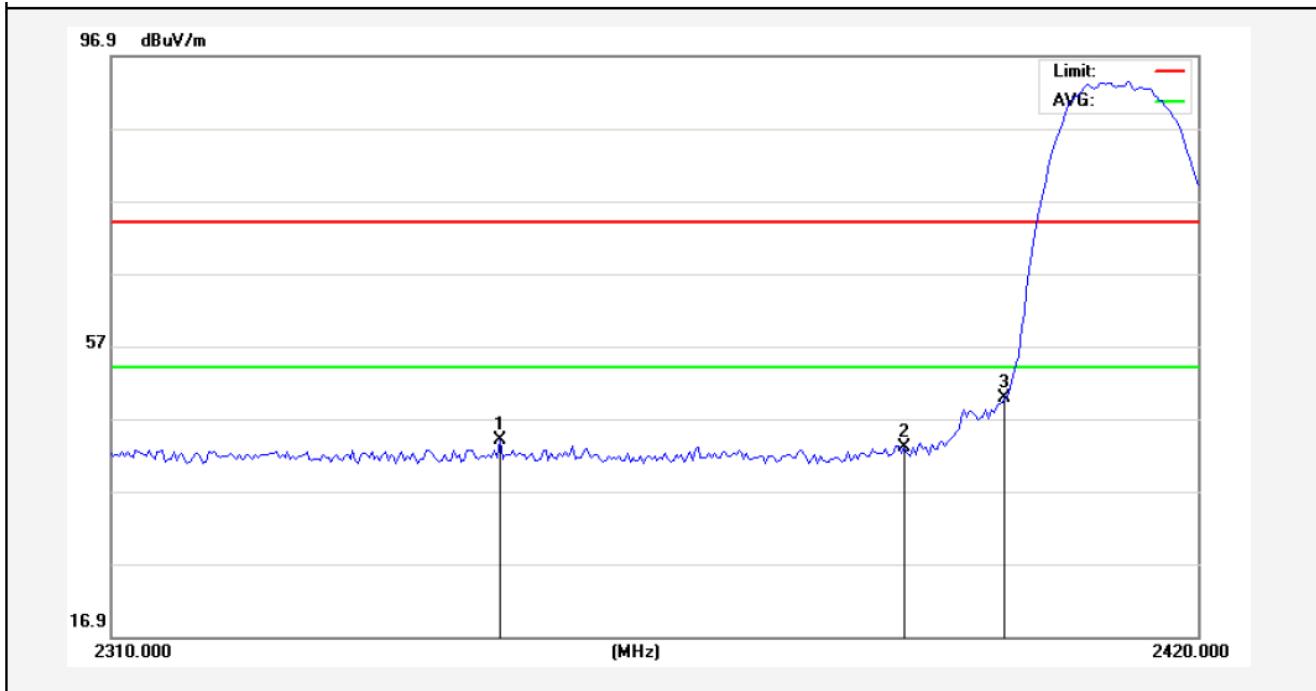
Test Mode: 802.11n (HT40) ---High



Test Mode: 802.11b

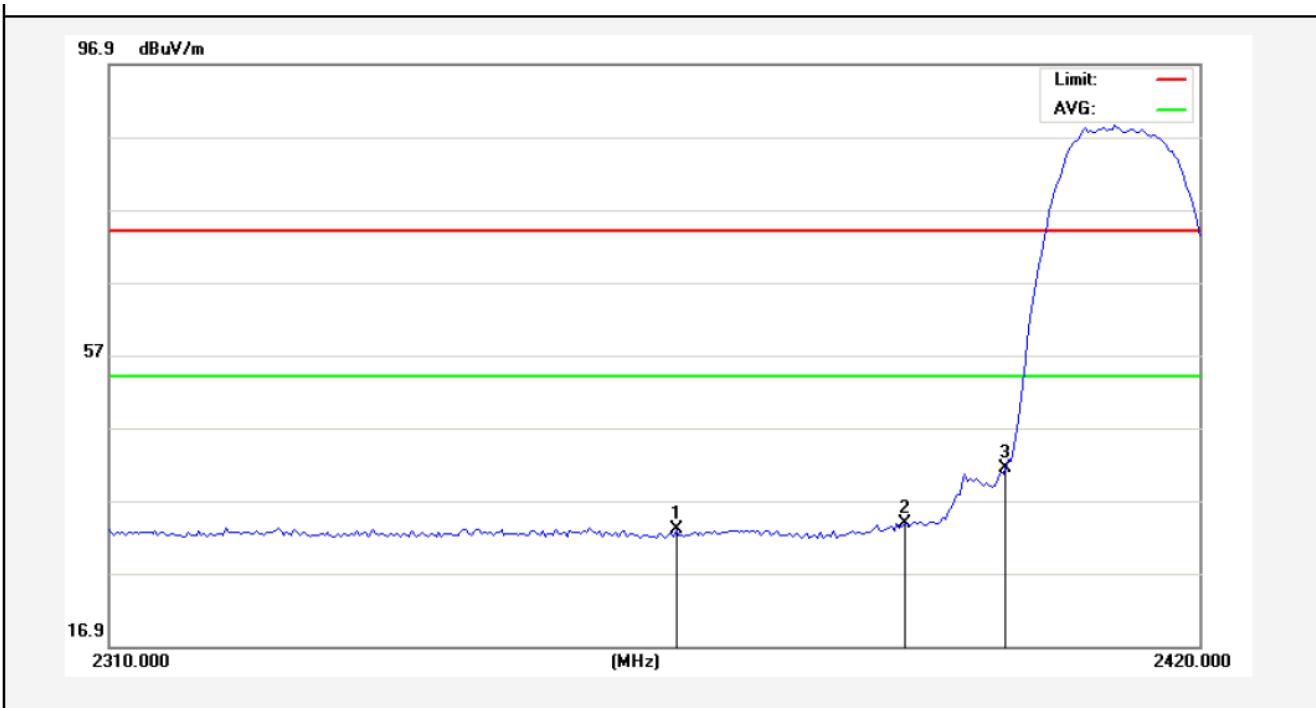
2412MHz

Horizontal-PEAK:



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|--------------|-----------------|----------|-------------|--------------|--------|
| 1 | 2348.775 | 46.63 | -2.61 | 44.02 | 74.00 | -29.98 | peak | | | |
| 2 | 2390.000 | 45.54 | -2.51 | 43.03 | 74.00 | -30.97 | peak | | | |
| 3 | 2400.000 | 52.23 | -2.49 | 49.74 | 74.00 | -24.26 | peak | | | |

Horizontal-AV:

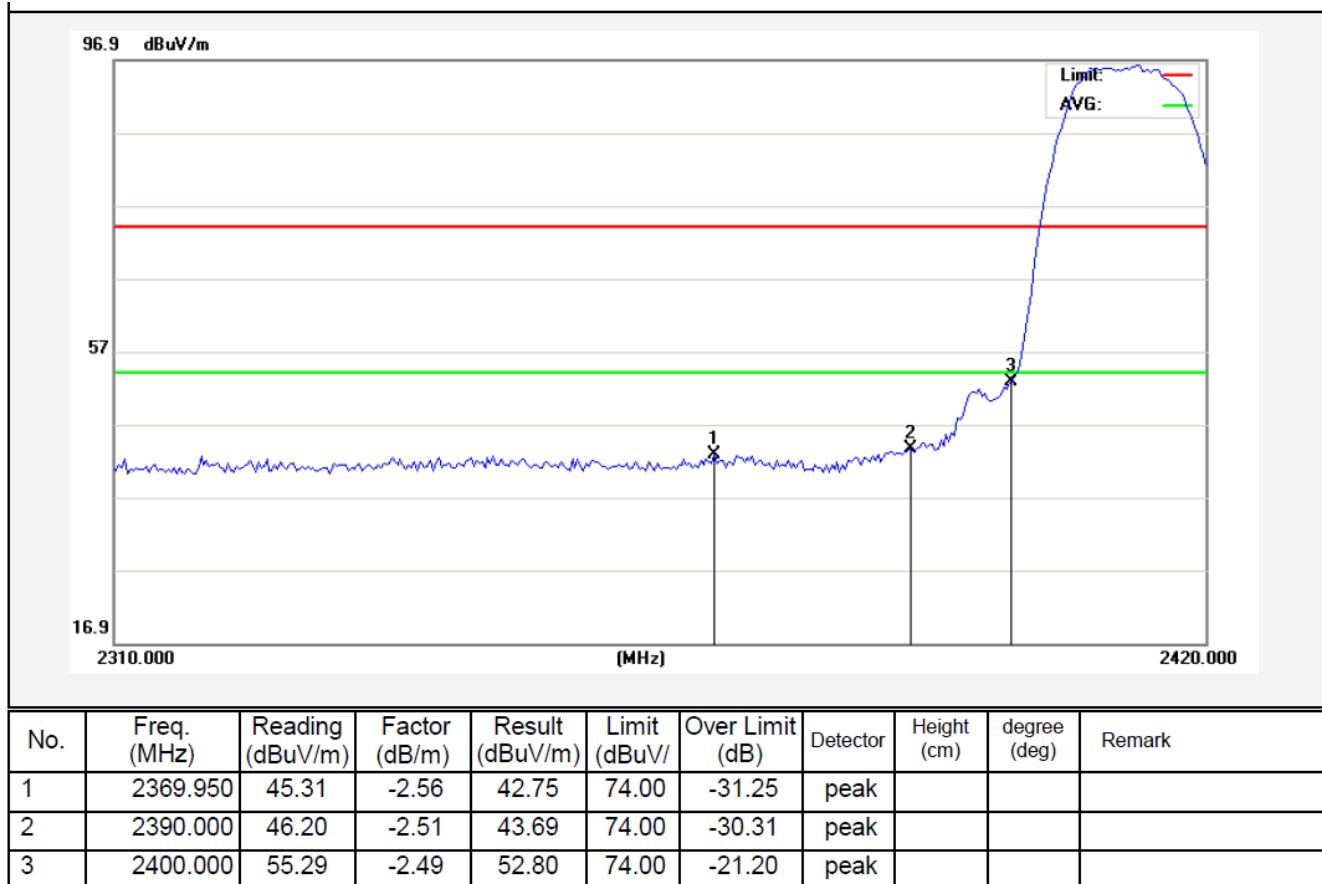


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|----------------|---------------------|------------------|--------------------|-------------------|--------------------|----------|----------------|-----------------|--------|
| 1 | 2366.650 | 35.52 | -2.57 | 32.95 | 54.00 | -21.05 | AVG | | | |
| 2 | 2390.000 | 36.33 | -2.51 | 33.82 | 54.00 | -20.18 | AVG | | | |
| 3 | 2400.000 | 43.84 | -2.49 | 41.35 | 54.00 | -12.65 | AVG | | | |

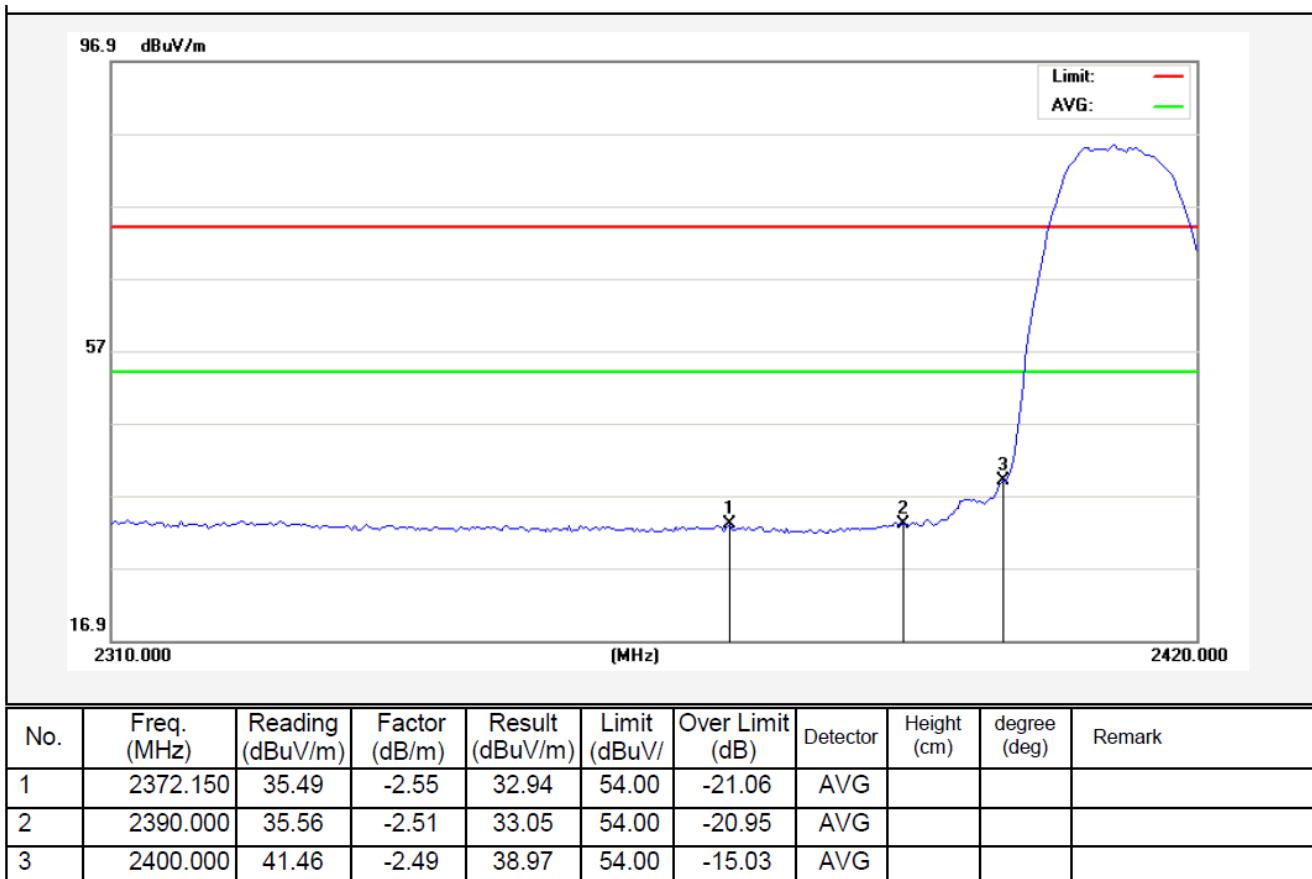
Test Mode: 802.11b

2412MHz

Vertical-PEAK:



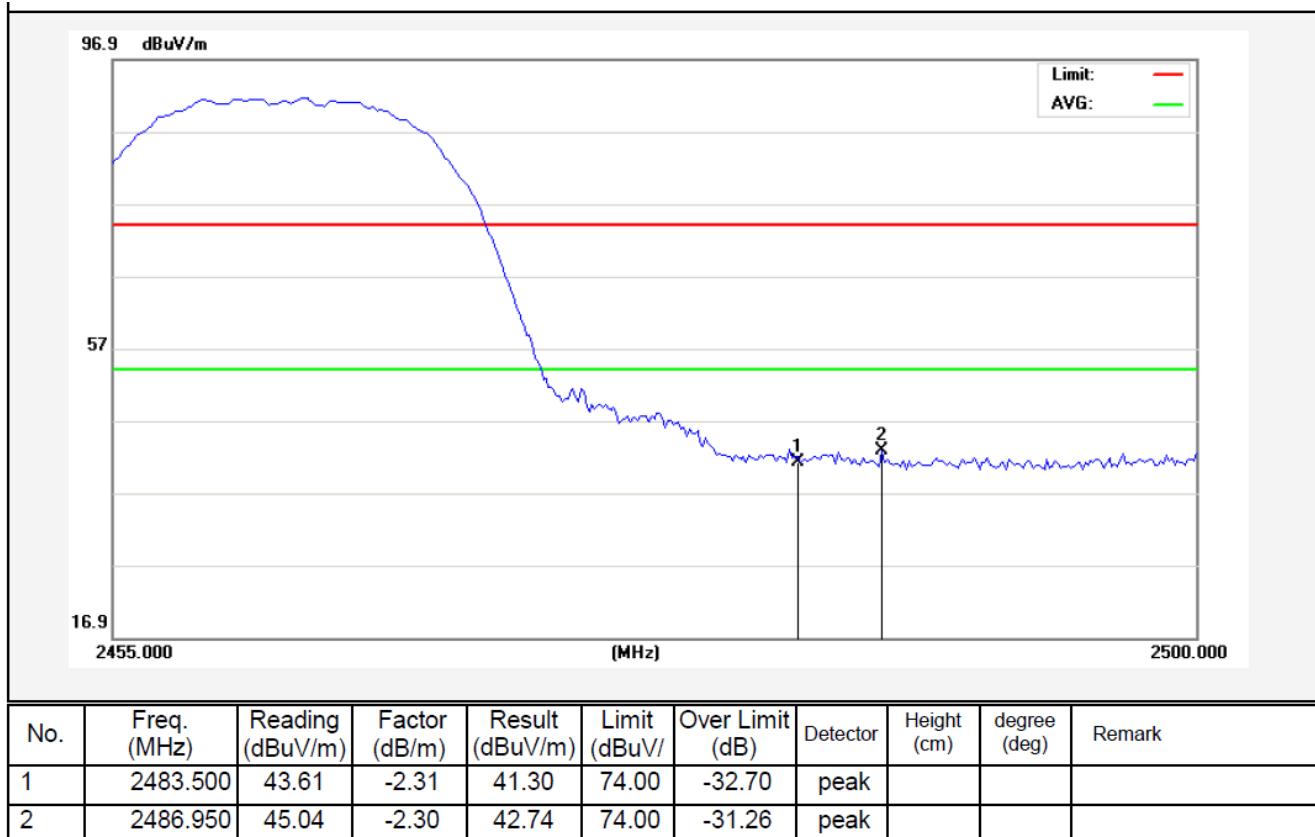
Vertical-AV:



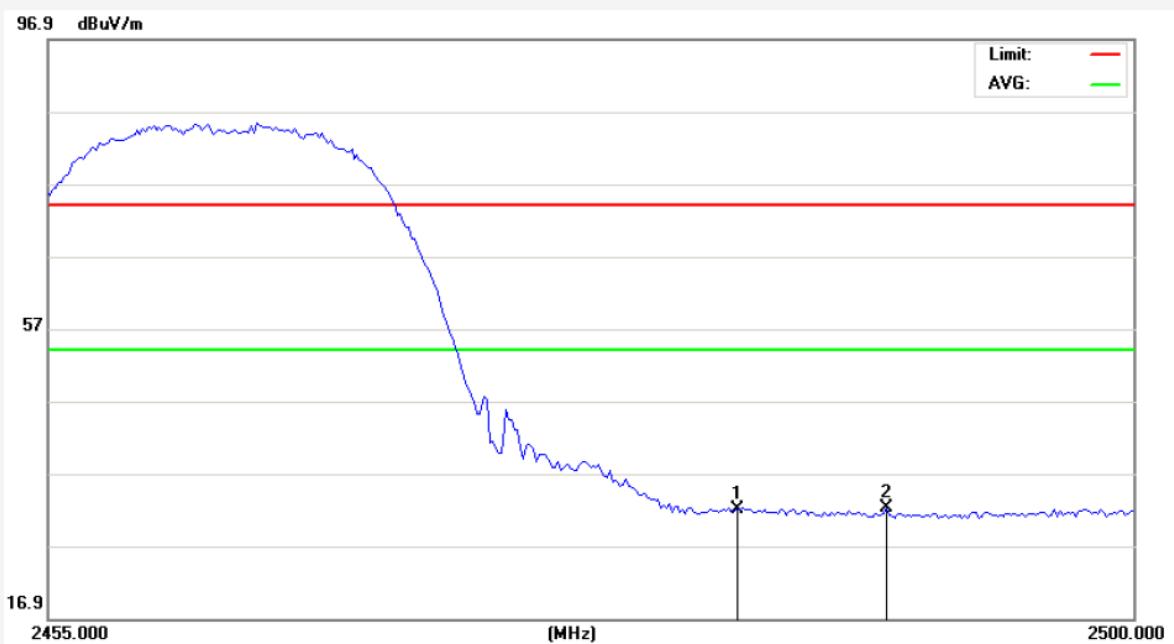
Test Mode: 802.11b

2462MHz

Horizontal-PEAK:



Horizontal-AV:

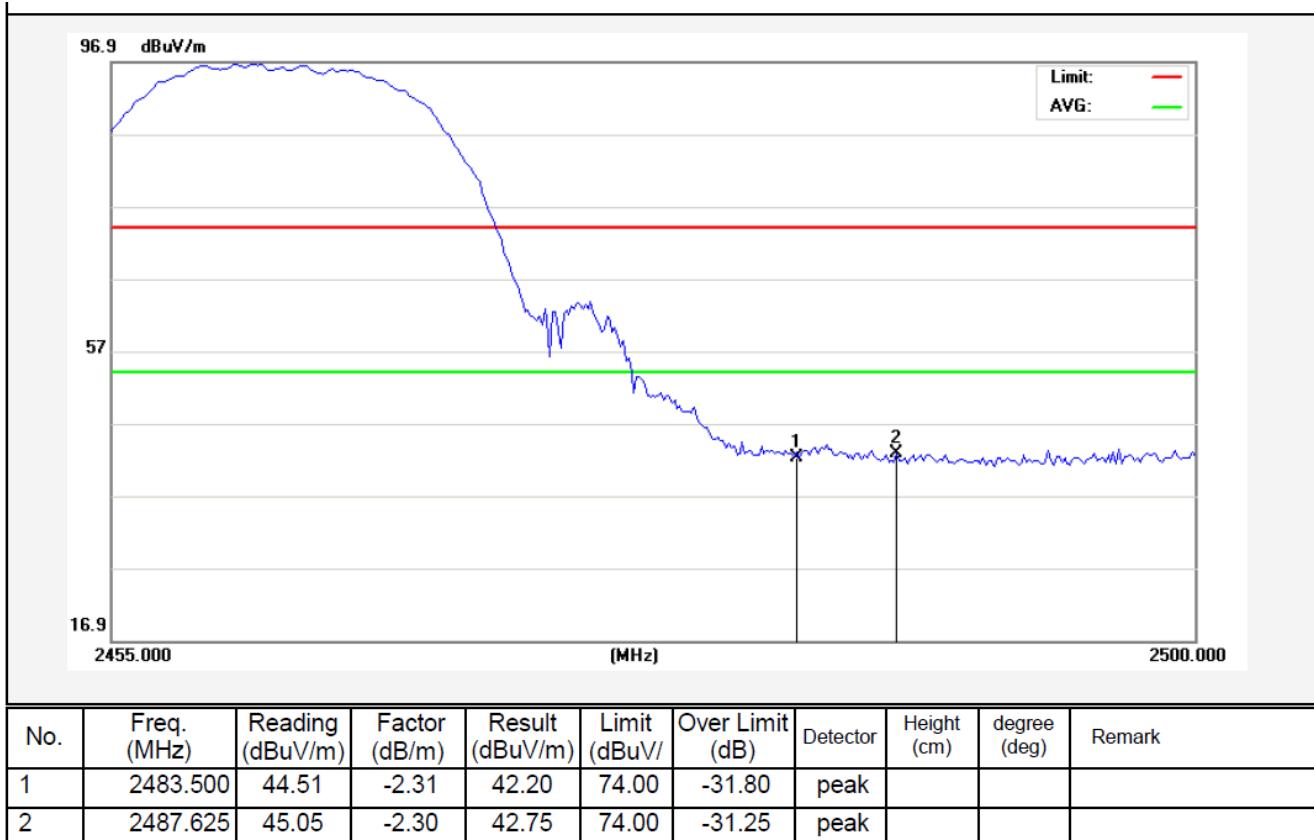


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1 | 2483.500 | 34.26 | -2.31 | 31.95 | 54.00 | -22.05 | AVG | | | |
| 2 | 2489.762 | 34.57 | -2.29 | 32.28 | 54.00 | -21.72 | AVG | | | |

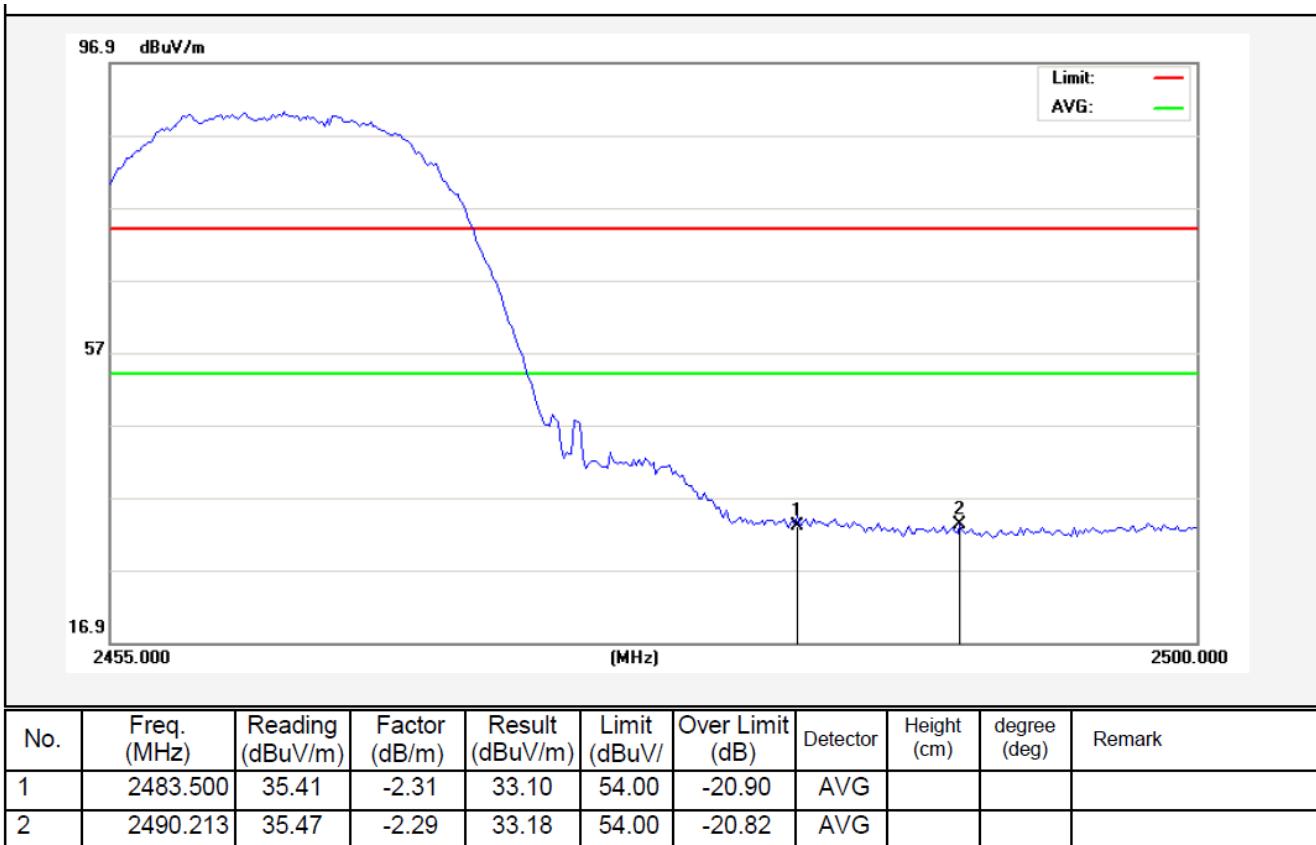
Test Mode: 802.11b

2462MHz

Vertical-PEAK:



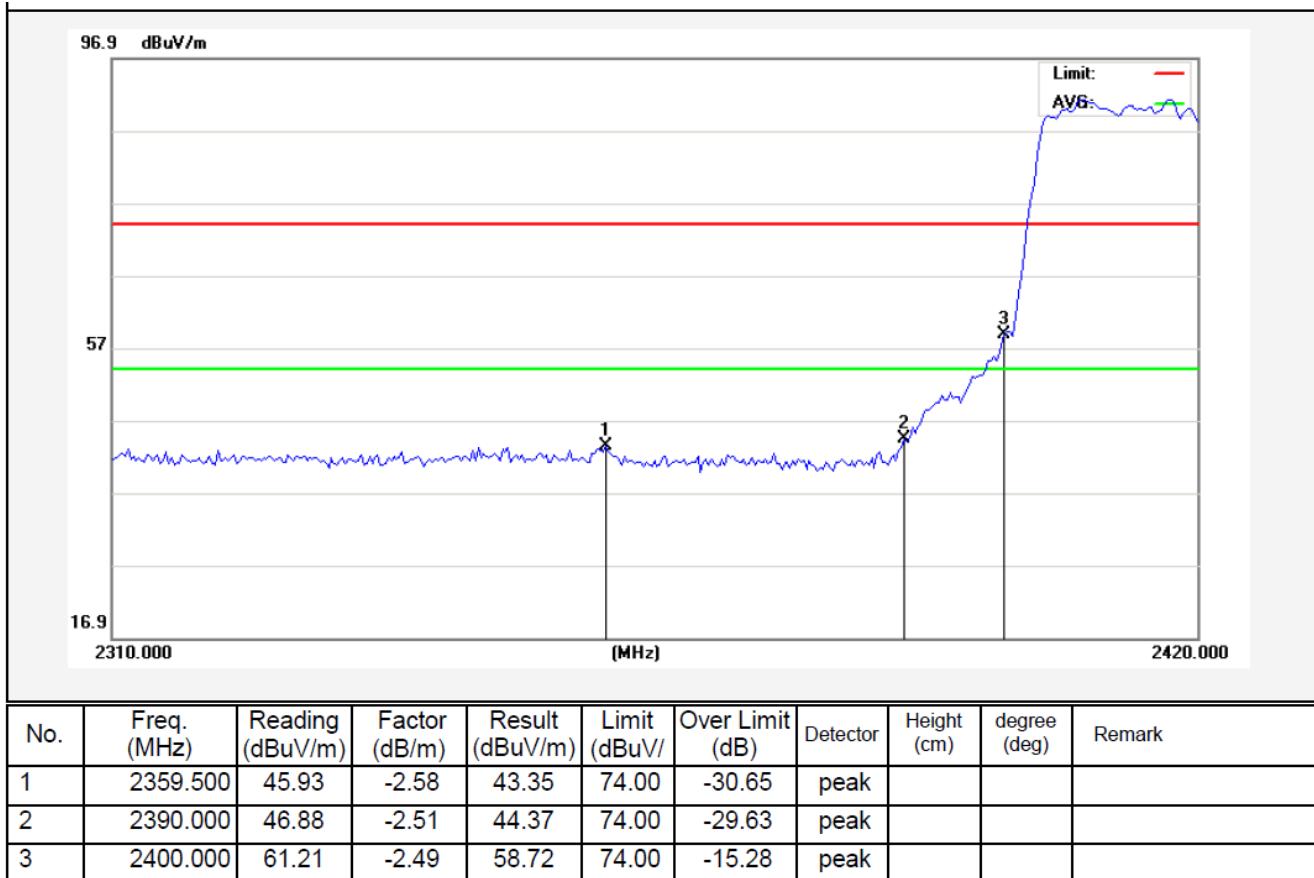
Vertical-AV:



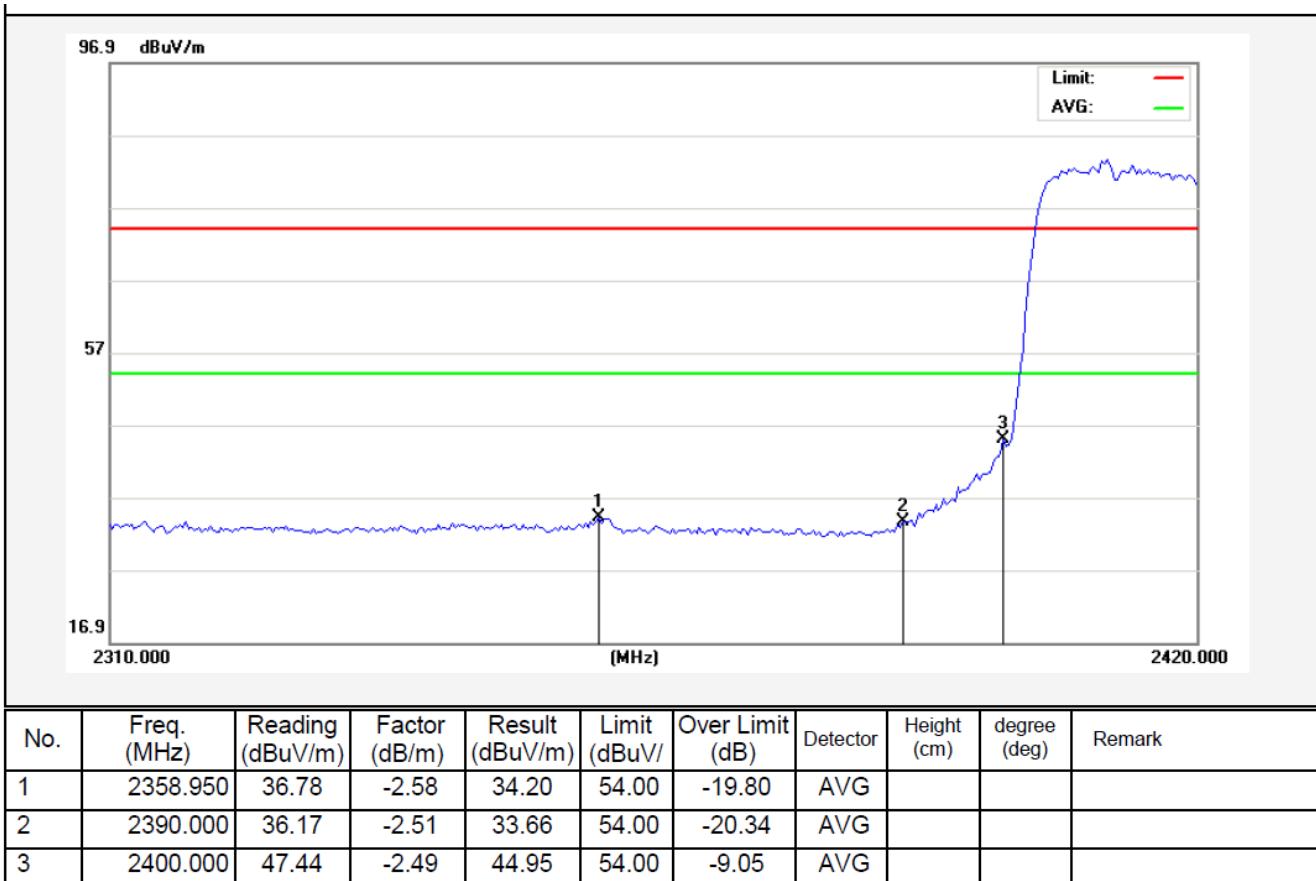
Test Mode: 802.11g

2412MHz

Horizontal-PEAK:



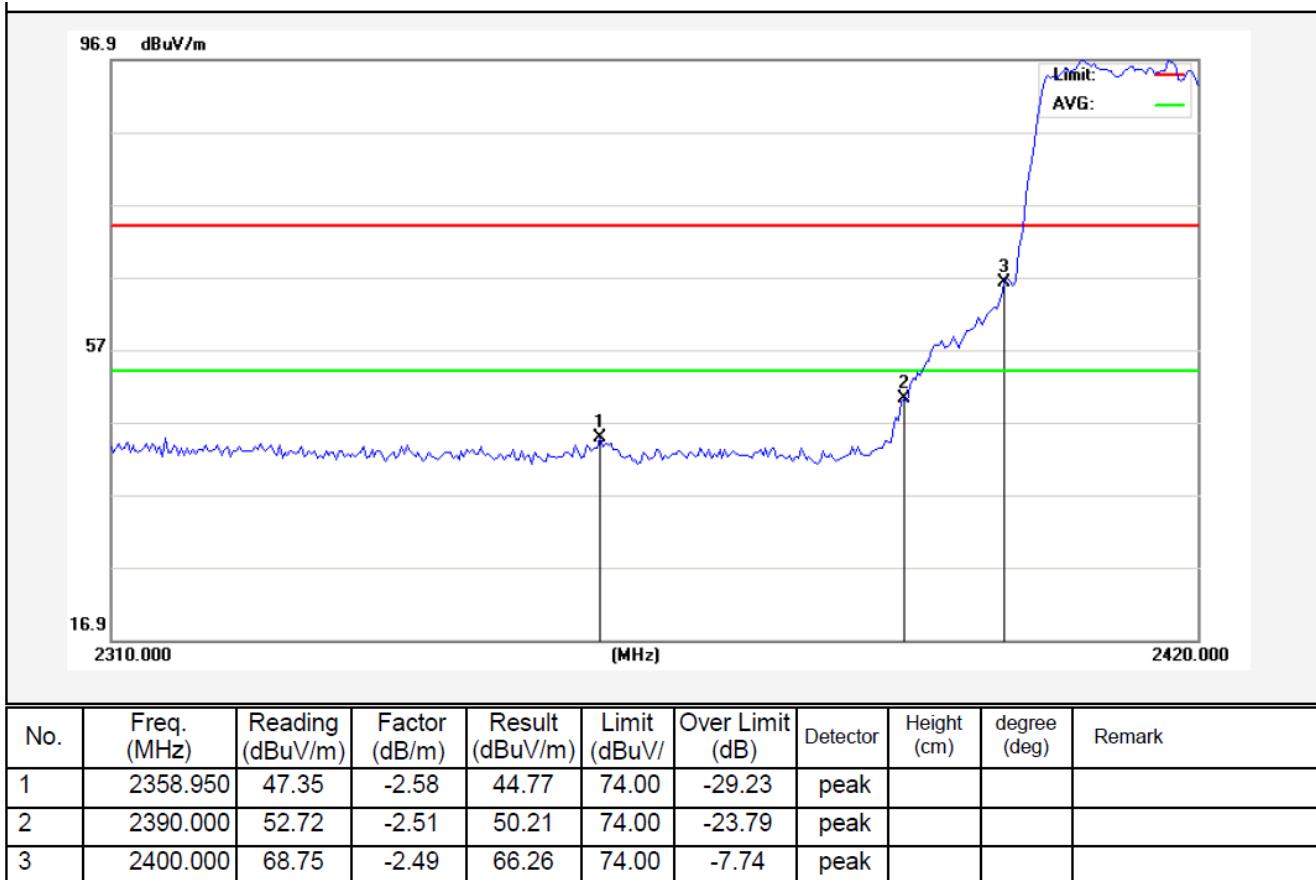
Horizontal-AV:



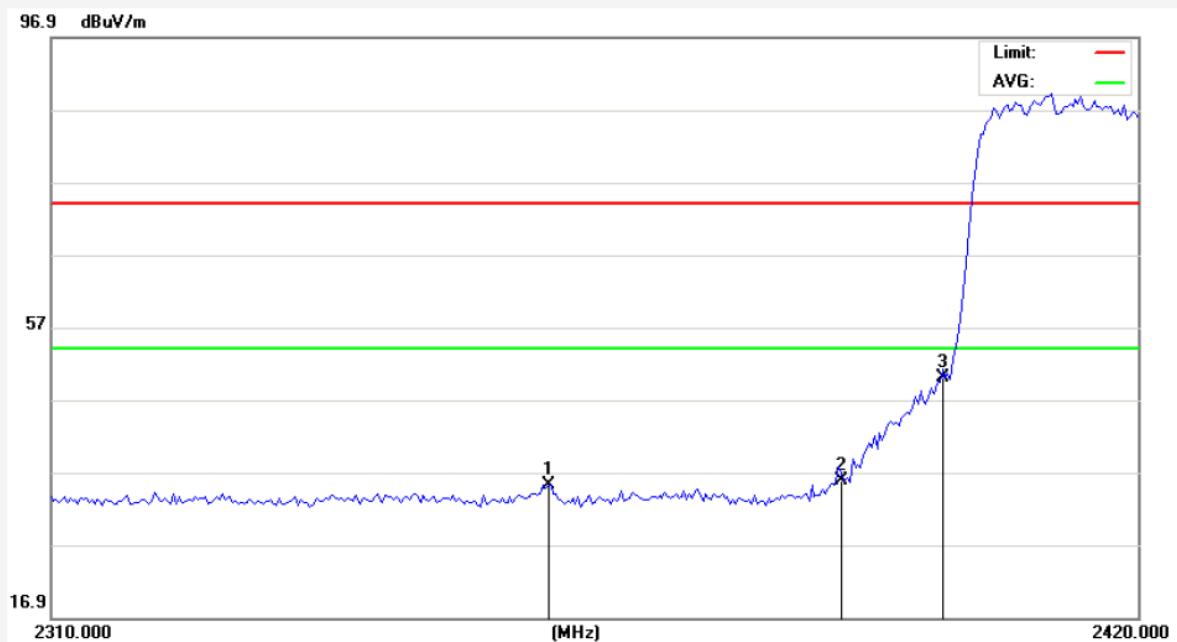
Test Mode: 802.11g

2412MHz

Vertical-PEAK:



Vertical-AV:

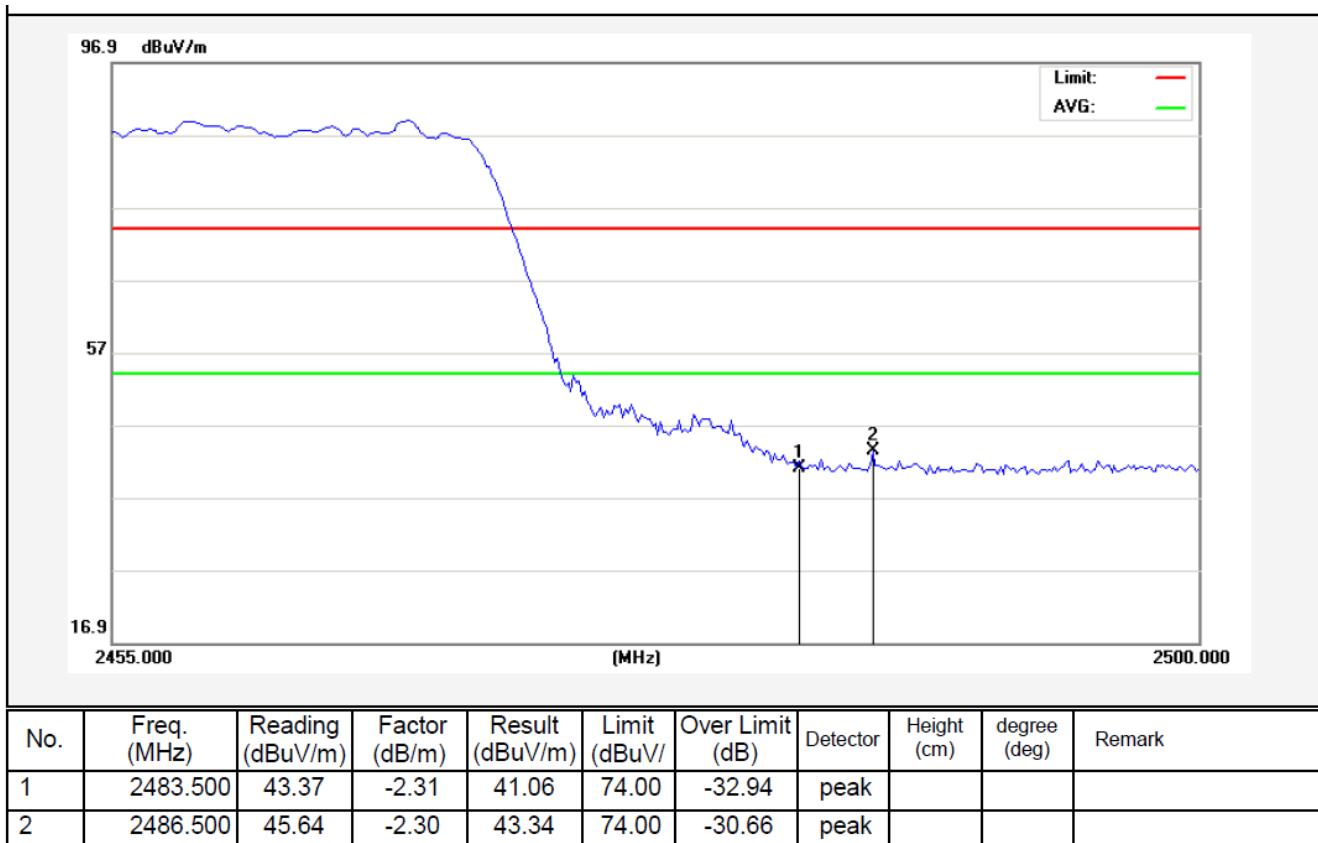


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|----------------|---------------------|------------------|--------------------|-----------------|--------------------|----------|----------------|-----------------|--------|
| 1 | 2359.775 | 37.85 | -2.58 | 35.27 | 54.00 | -18.73 | AVG | | | |
| 2 | 2390.000 | 38.37 | -2.51 | 35.86 | 54.00 | -18.14 | AVG | | | |
| 3 | 2400.000 | 52.48 | -2.49 | 49.99 | 54.00 | -4.01 | AVG | | | |

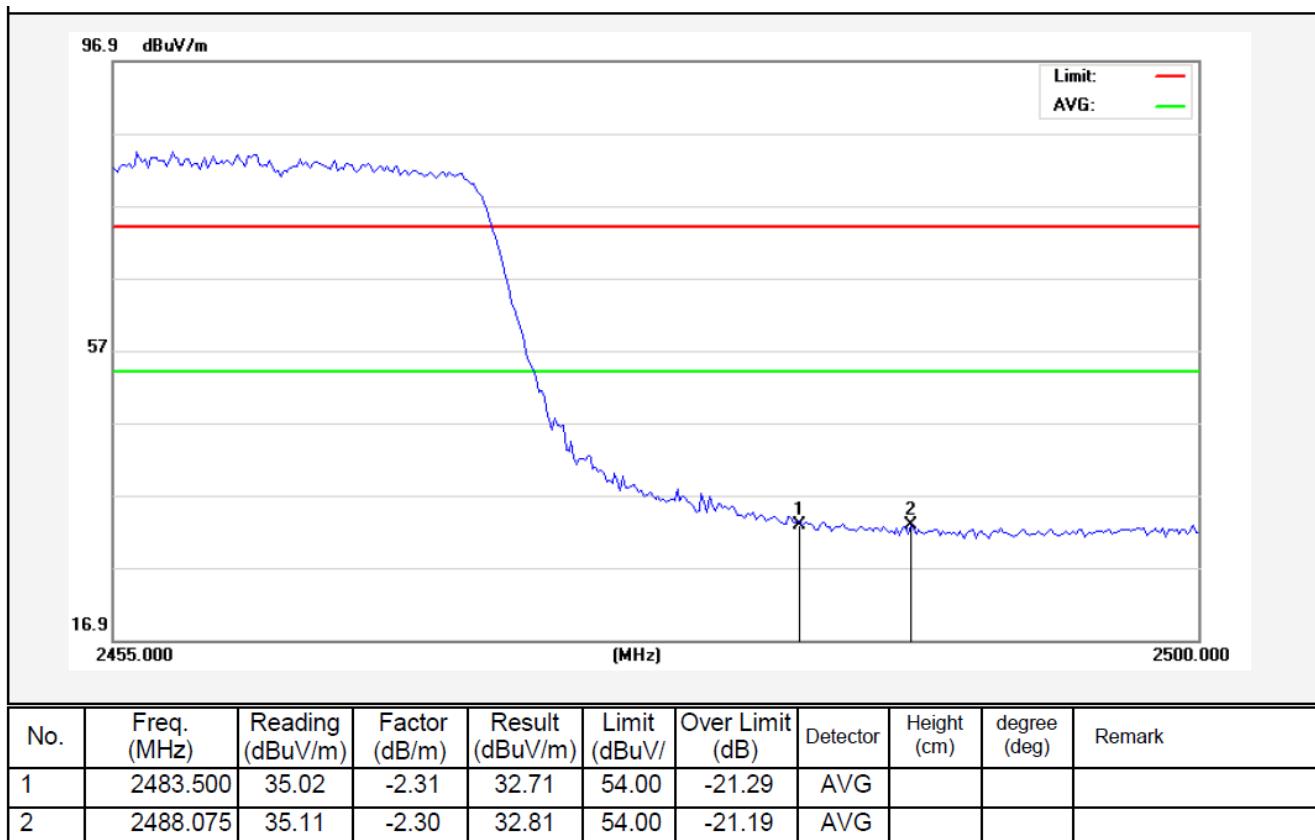
Test Mode: 802.11g

2462MHz

Horizontal-PEAK:



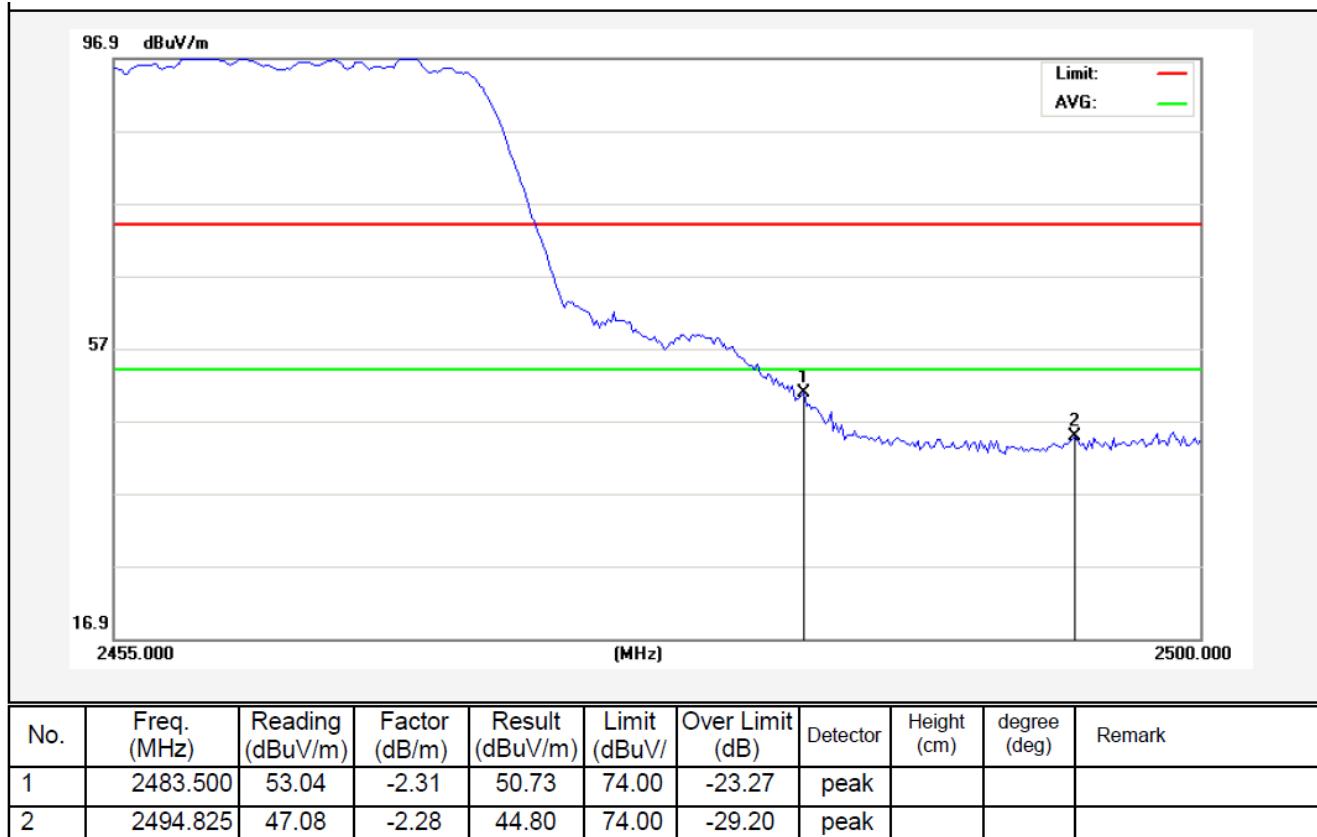
Horizontal-AV:



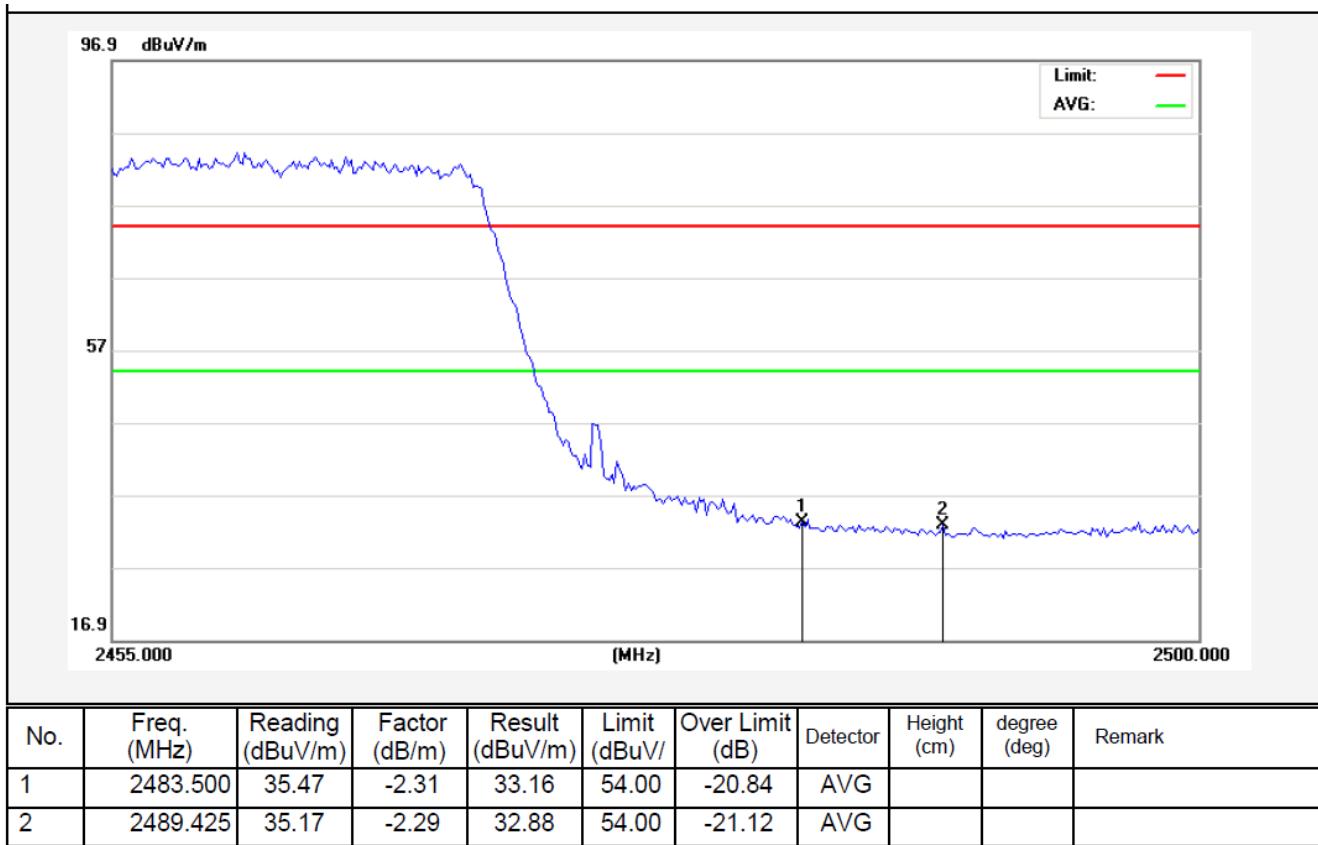
Test Mode: 802.11g

2462MHz

Vertical-PEAK:



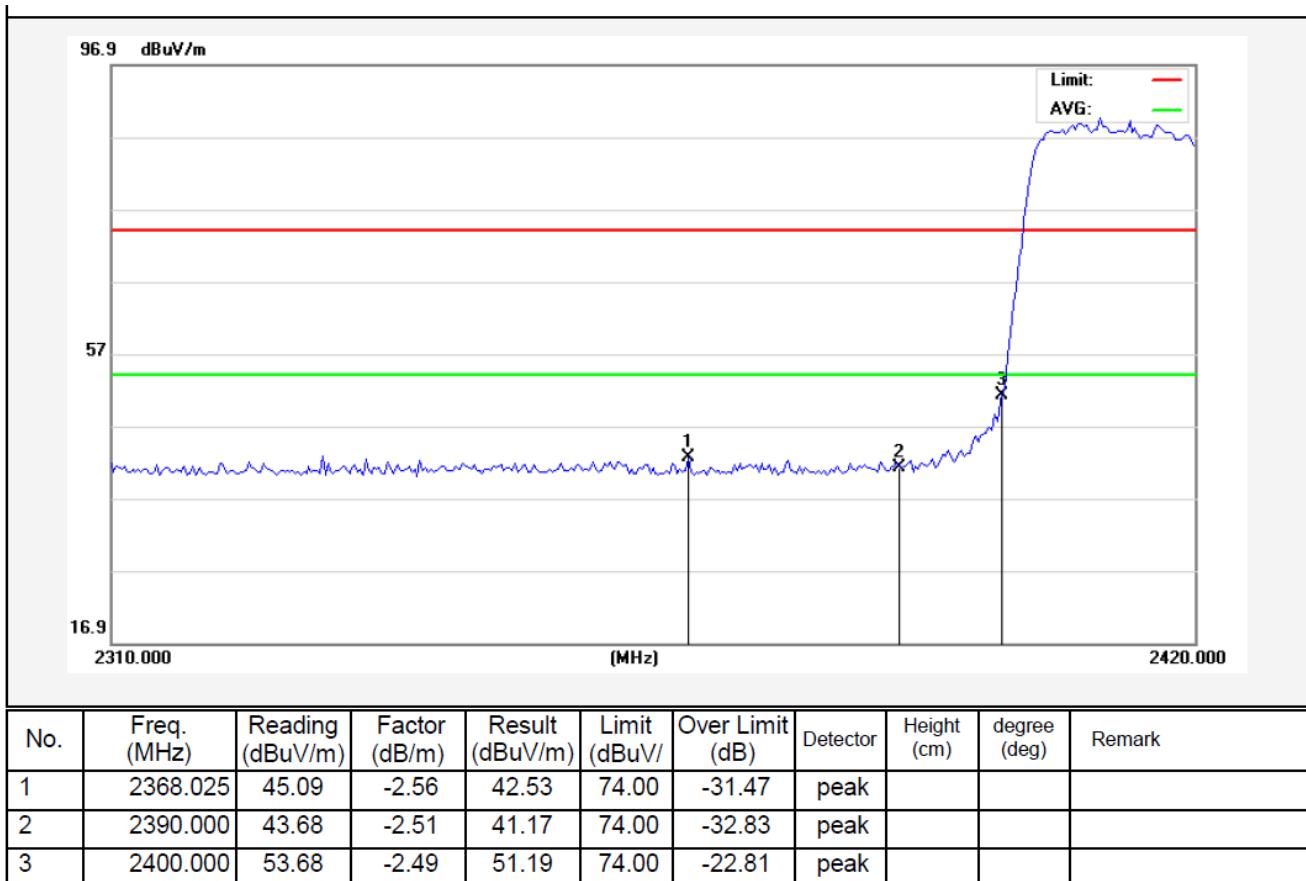
Vertical-AV:



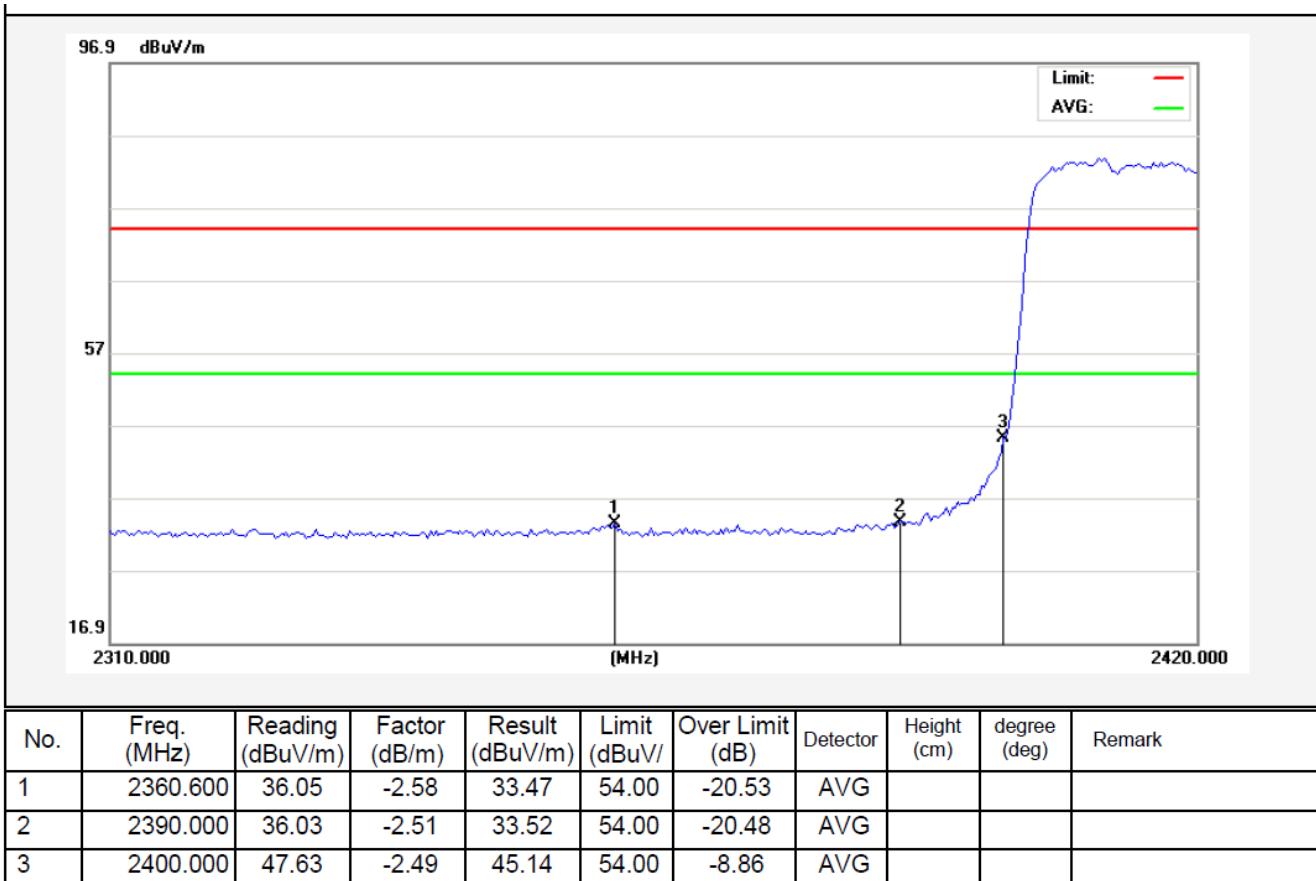
Test Mode: 802.11n (HT20)

2412MHz

Horizontal-PEAK:



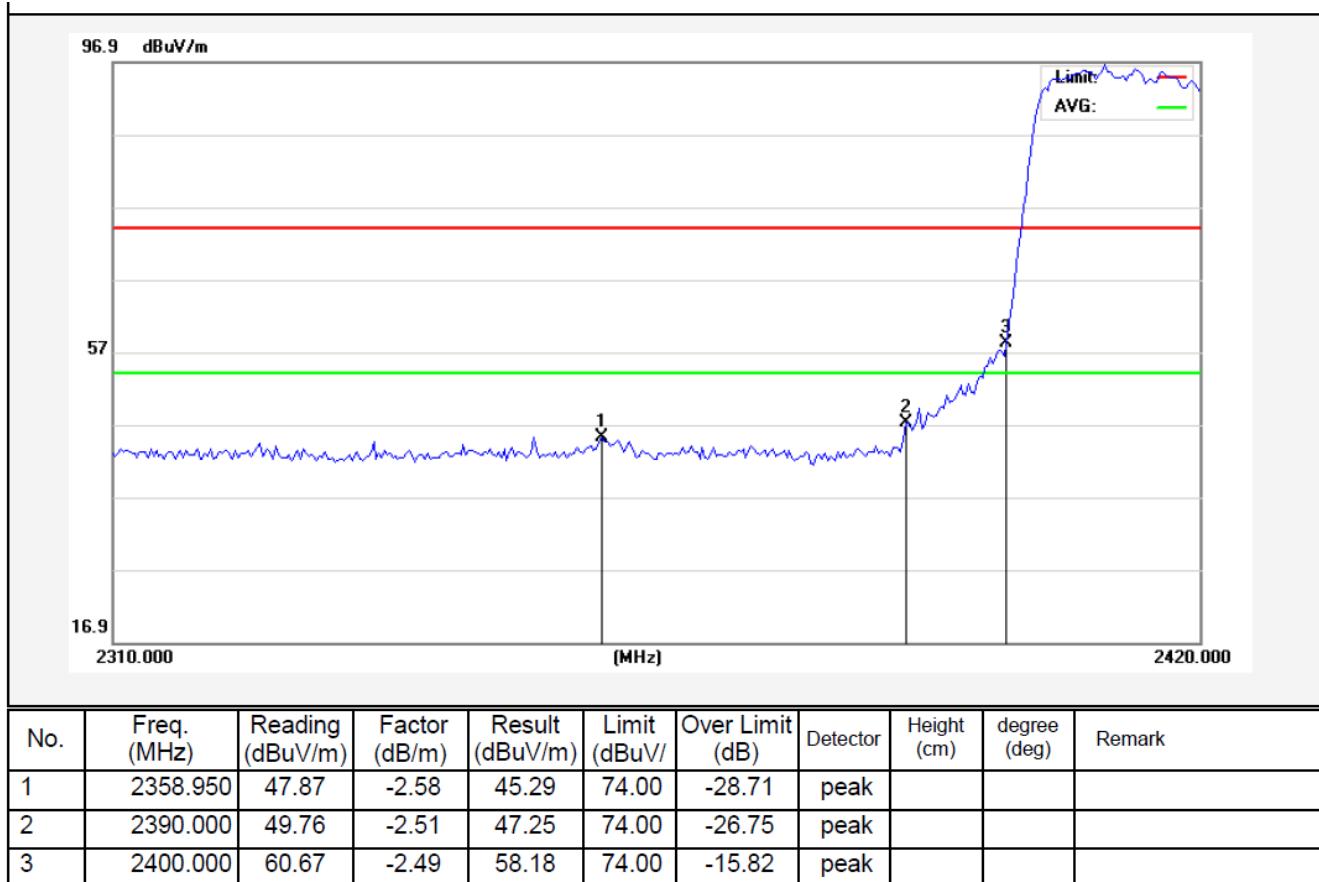
Horizontal-AV:



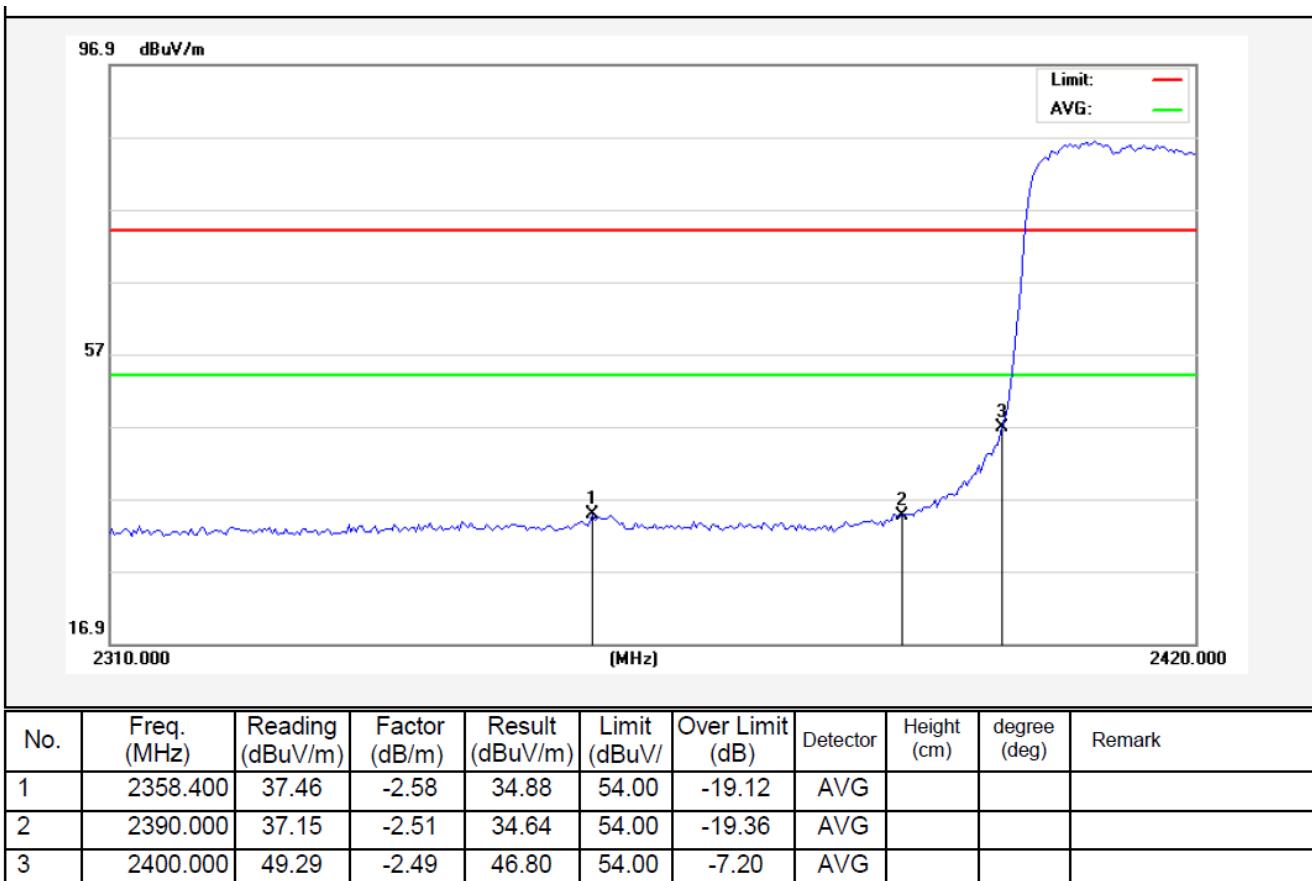
Test Mode: 802.11n (HT20)

2412MHz

Vertical-PEAK:



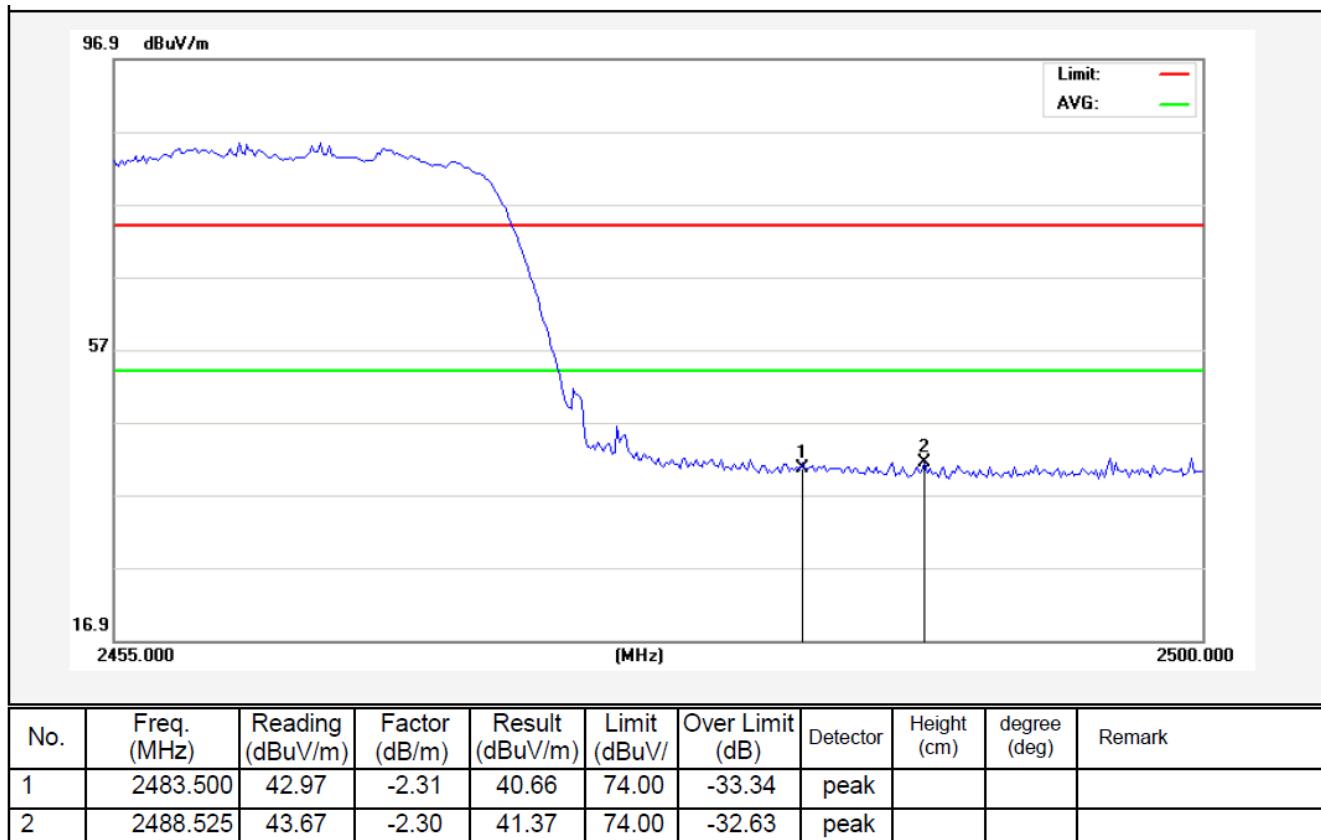
Vertical-AV:



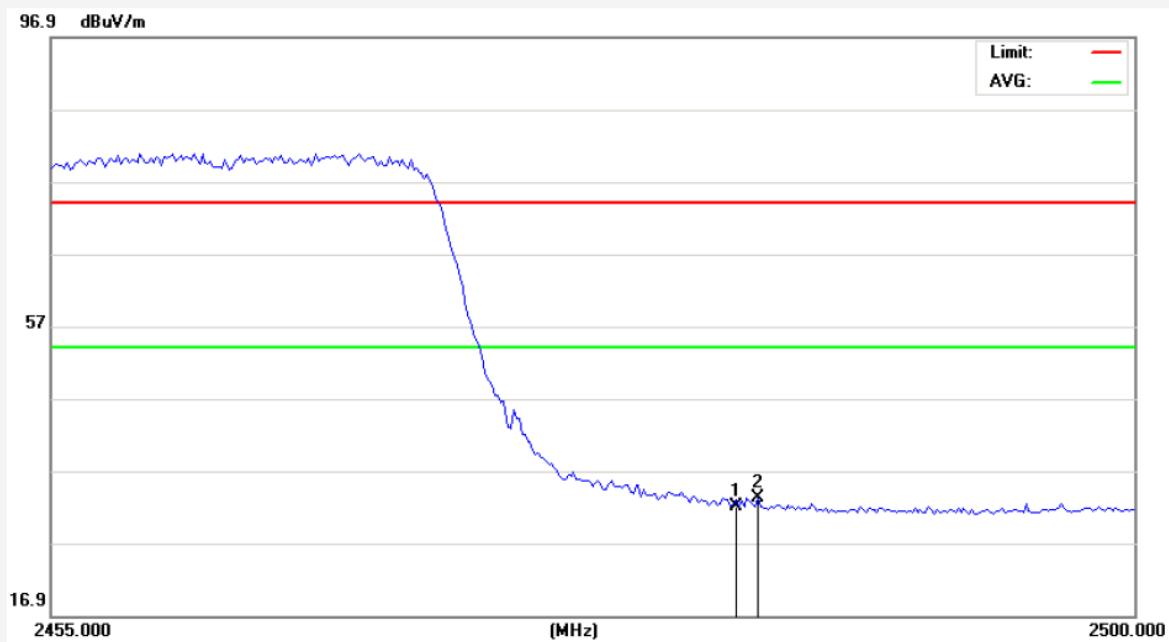
Test Mode: 802.11n (HT20)

2462MHz

Horizontal-PEAK:



Horizontal-AV:

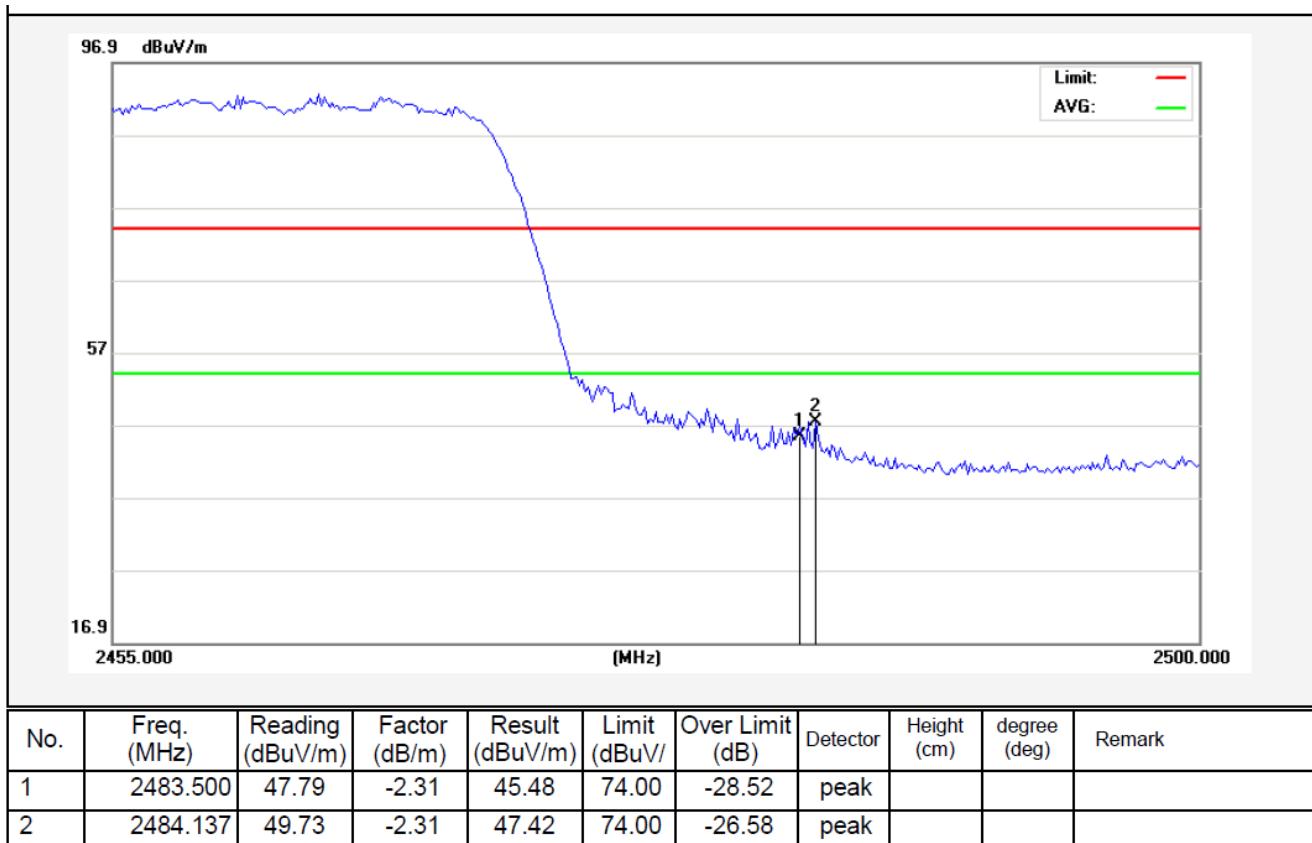


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1 | 2483.500 | 34.26 | -2.31 | 31.95 | 54.00 | -22.05 | AVG | | | |
| 2 | 2484.363 | 35.50 | -2.30 | 33.20 | 54.00 | -20.80 | AVG | | | |

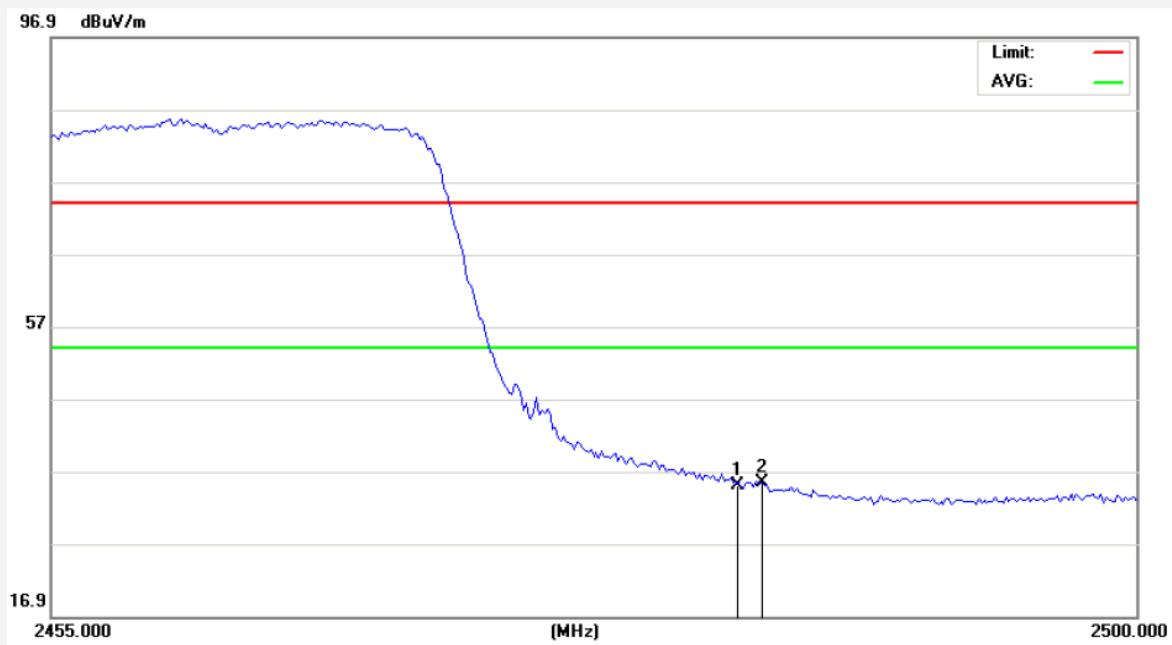
Test Mode: 802.11n (HT20)

2462MHz

Vertical-PEAK:



Vertical-AV:

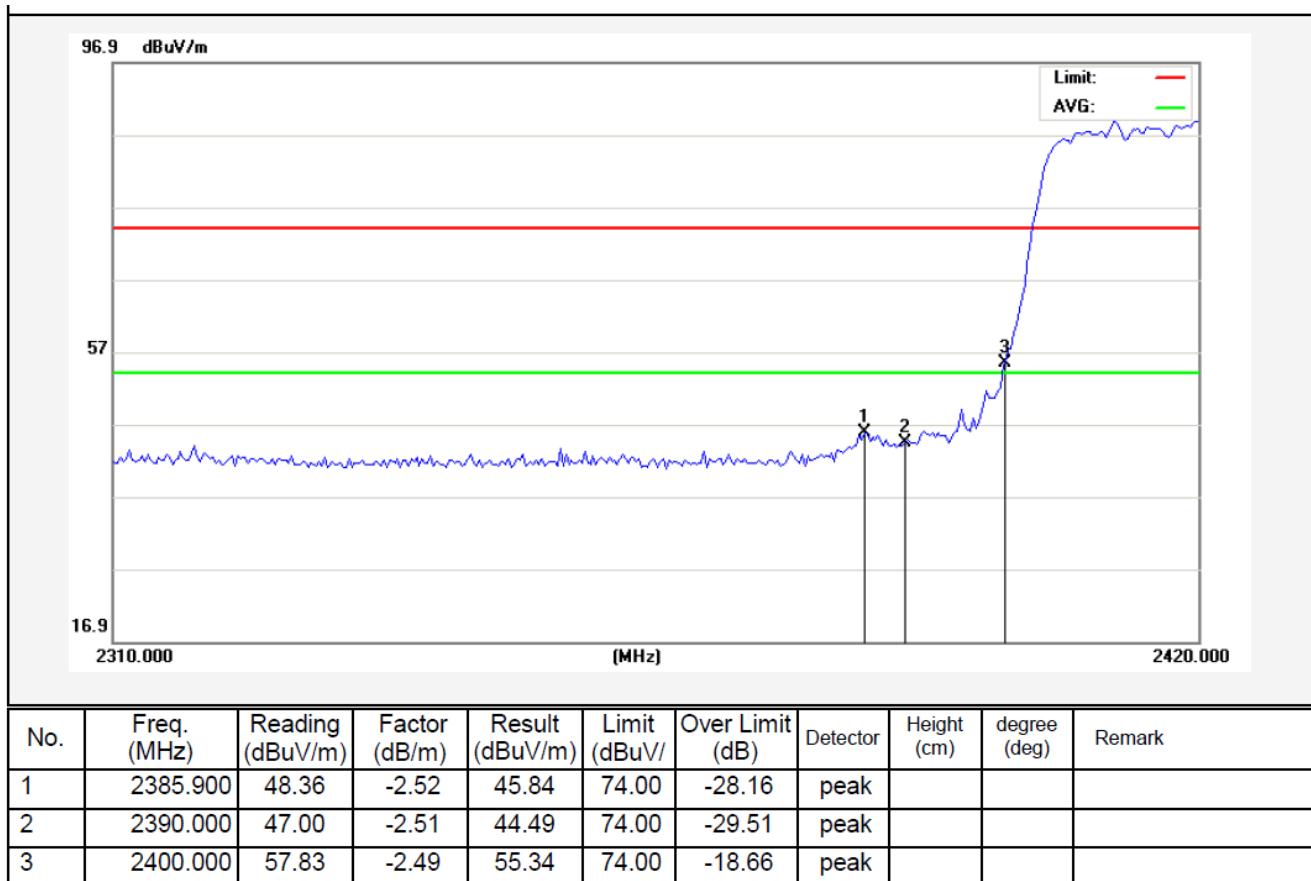


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|----------------|---------------------|------------------|--------------------|-----------------|--------------------|----------|----------------|-----------------|--------|
| 1 | 2483.500 | 37.26 | -2.31 | 34.95 | 54.00 | -19.05 | AVG | | | |
| 2 | 2484.475 | 37.73 | -2.30 | 35.43 | 54.00 | -18.57 | AVG | | | |

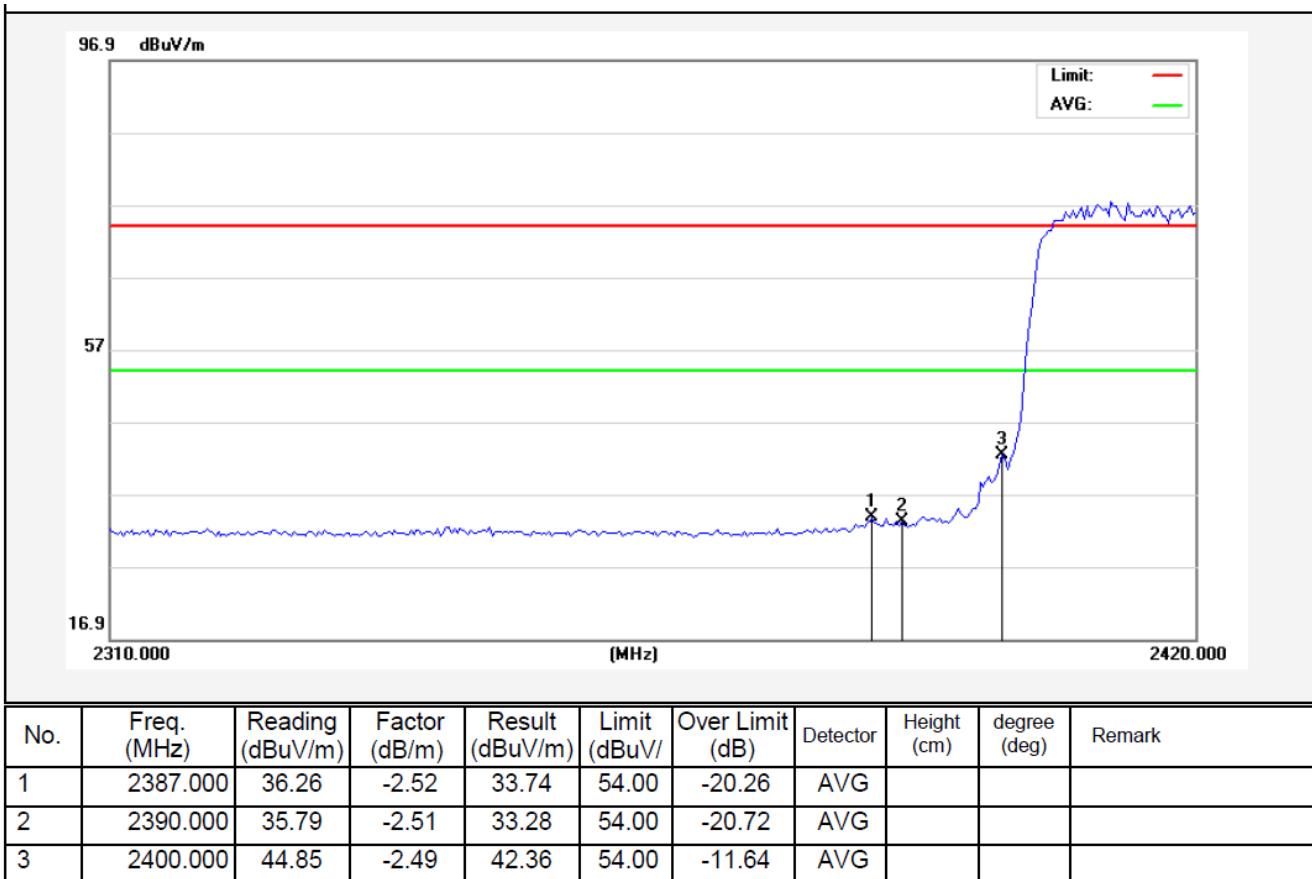
Test Mode: 802.11n (HT40)

2422MHz

Horizontal-PEAK:



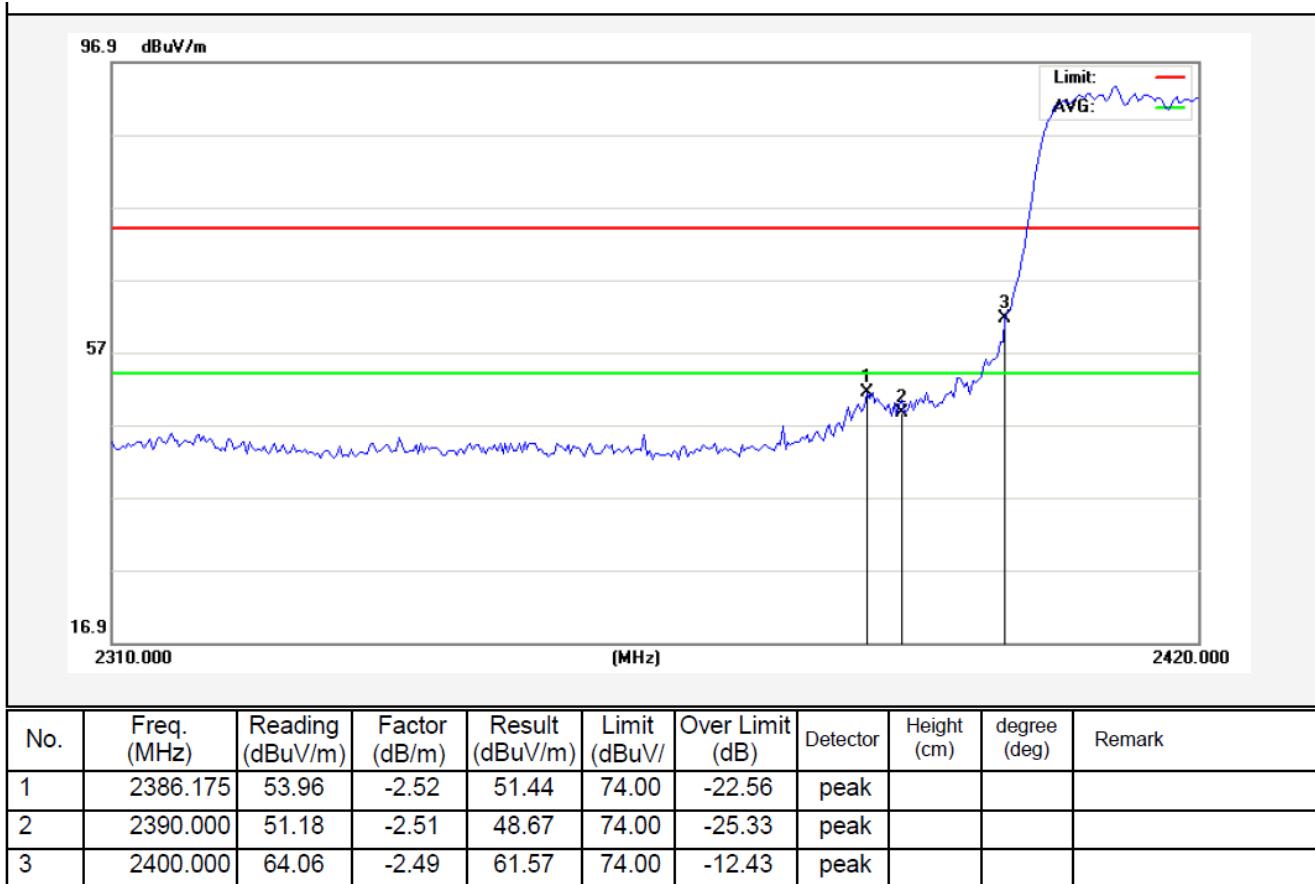
Horizontal-AV:



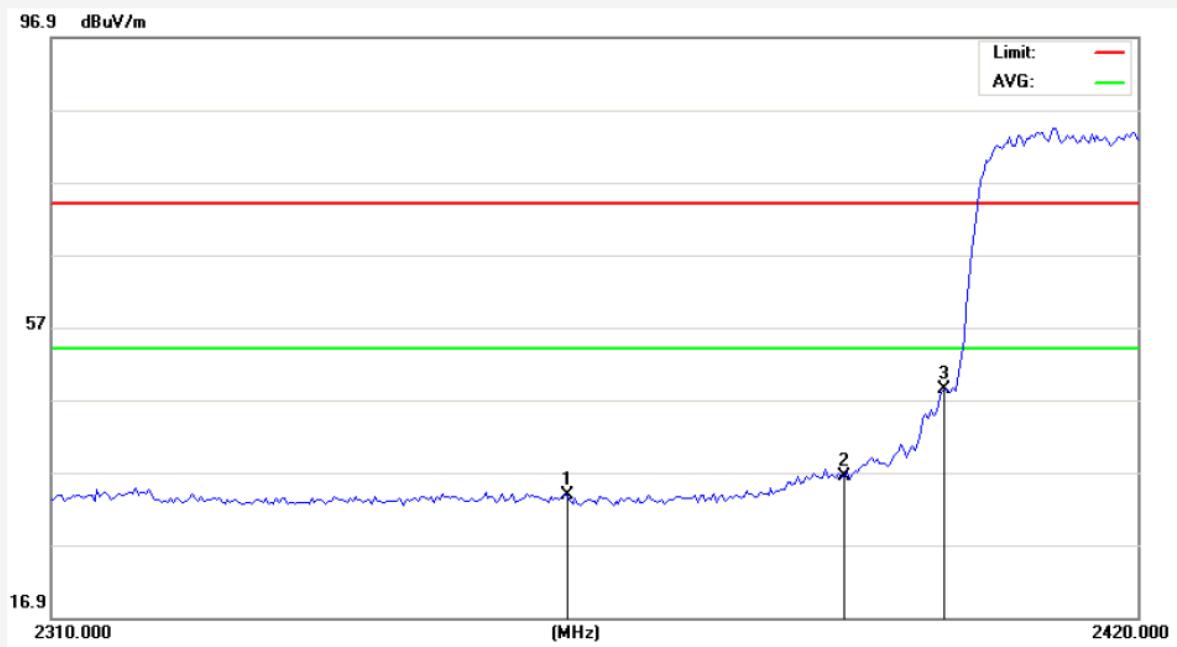
Test Mode: 802.11n (HT40)

2422MHz

Vertical-PEAK:



Vertical-AV:

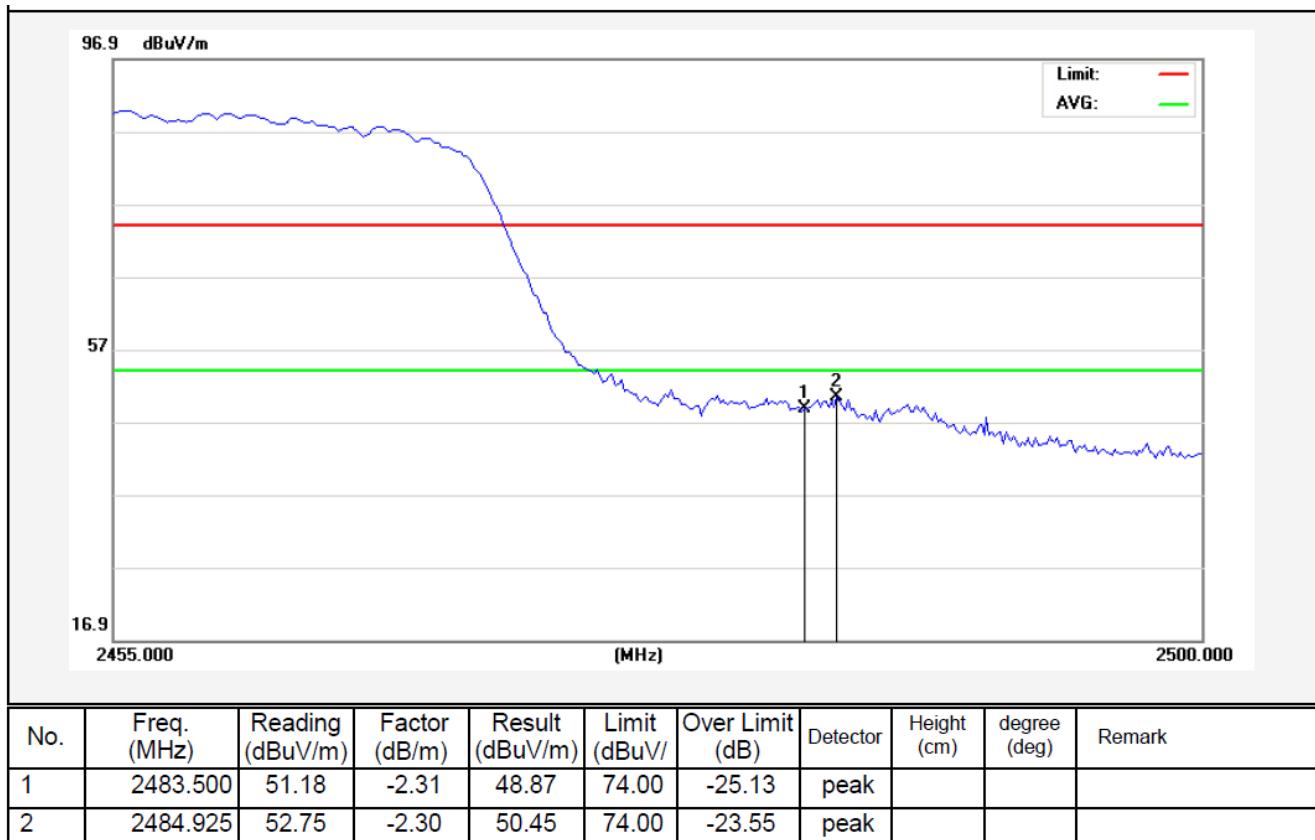


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|----------------|---------------------|------------------|--------------------|-----------------|--------------------|----------|----------------|-----------------|--------|
| 1 | 2361.700 | 36.47 | -2.58 | 33.89 | 54.00 | -20.11 | AVG | | | |
| 2 | 2390.000 | 38.83 | -2.51 | 36.32 | 54.00 | -17.68 | AVG | | | |
| 3 | 2400.000 | 50.94 | -2.49 | 48.45 | 54.00 | -5.55 | AVG | | | |

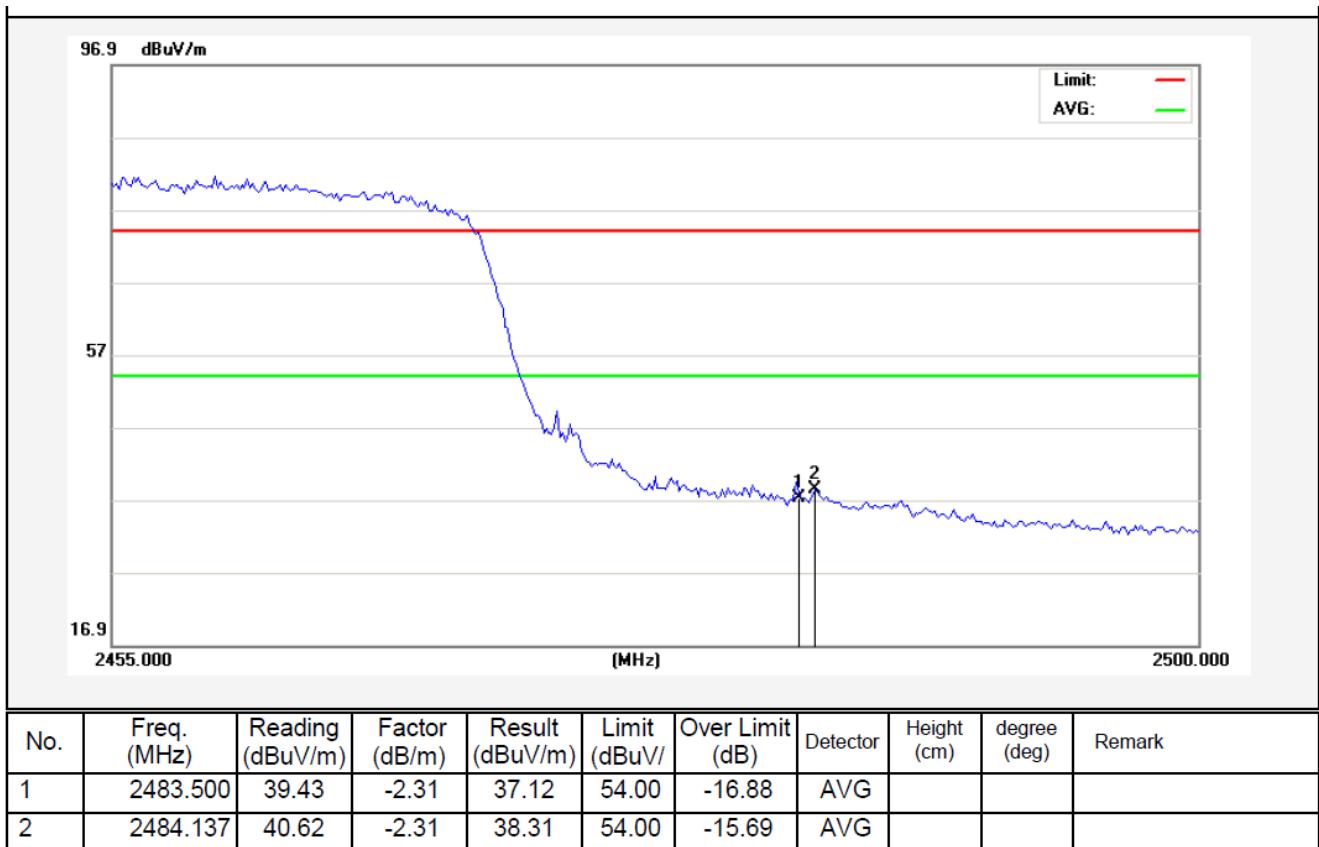
Test Mode: 802.11n (HT40)

2452MHz

Horizontal-PEAK:



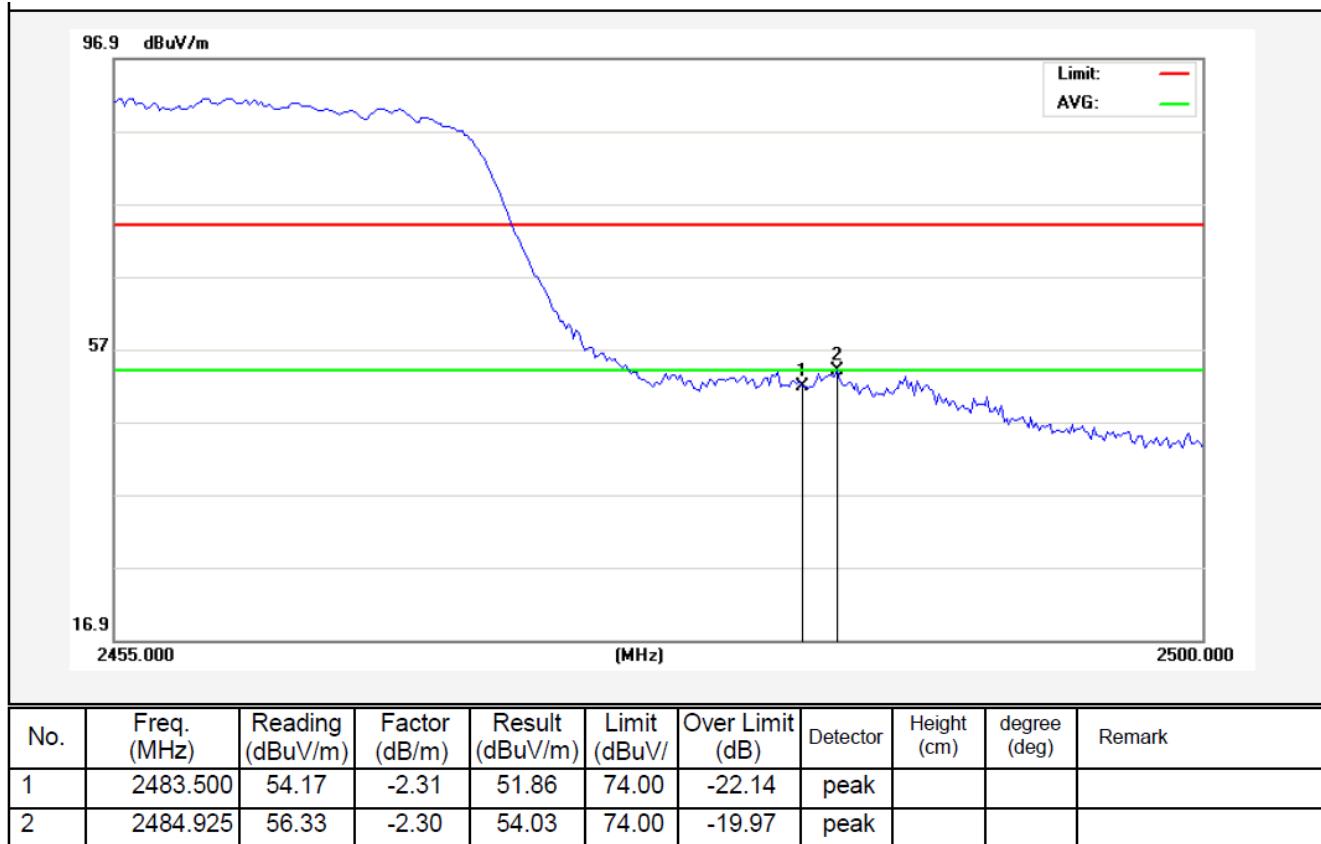
Horizontal-AV:



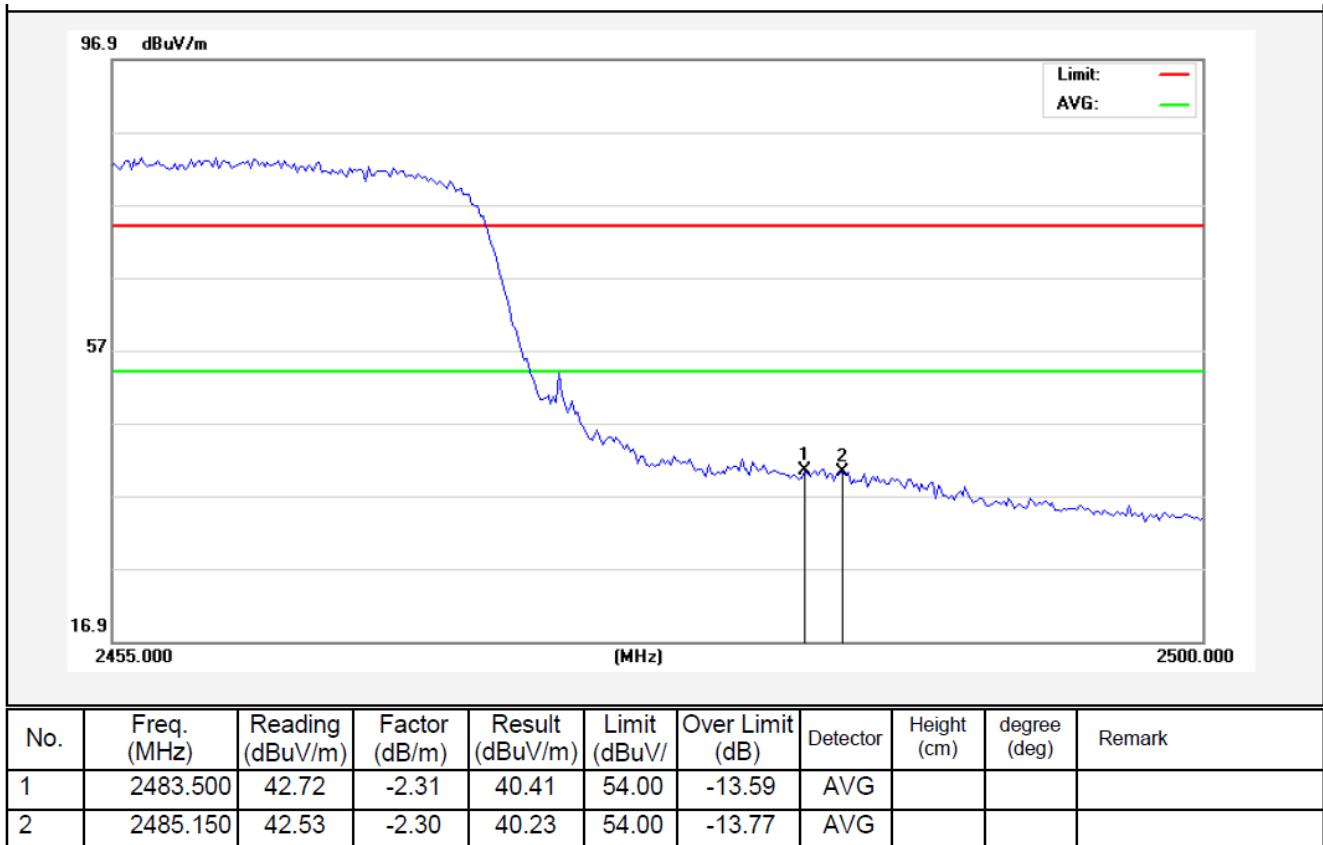
Test Mode: 802.11n (HT40)

2452MHz

Vertical-PEAK:



Vertical-AV:



4.5. Peak Power Spectral Density

a. Limit

1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

b. Test Procedure

1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5MHz, Sweep=500s
3. Record the max. reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.

c. Test Equipment

Same as the equipment listed in 4.2.

d. Test Setup

See 4.1

e. Test Results

Pass

f. Test Data

Please refer to the following data.

g. Test Plot

See the following pages

Test mode: IEEE 802.11b

| Channel | Frequency (MHz) | PPSD (dBm/3KHz) | Σ PPSD (dBm/3KHz) | Limit (dBm) | Result |
|---------|-----------------|-----------------|--------------------------|-------------|--------|
| Low | 2412 | -12.40 | - | | Pass |
| Mid | 2437 | -12.93 | - | 8.00 | Pass |
| High | 2462 | -14.01 | - | | Pass |

Test mode: IEEE 802.11g

| Channel | Frequency (MHz) | PPSD (dBm) | Σ PPSD (dBm) | Limit (dBm) | Result |
|---------|-----------------|------------|---------------------|-------------|--------|
| Low | 2412 | -16.97 | - | | Pass |
| Mid | 2437 | -17.02 | - | 8.00 | Pass |
| High | 2462 | -18.63 | - | | Pass |

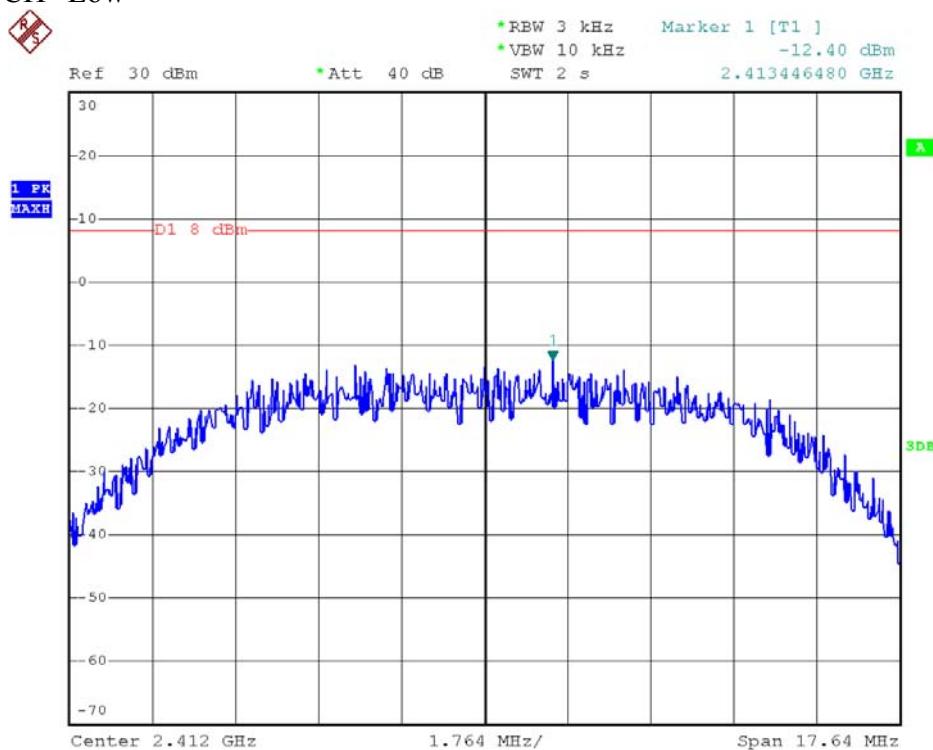
Test mode: IEEE 802.11n (HT20)

| Channel | Frequency (MHz) | PPSD (dBm/3KHz) | Σ PPSD (dBm/3KHz) | Limit (dBm) | Result |
|---------|-----------------|-----------------|--------------------------|-------------|--------|
| Low | 2412 | -17.74 | - | | Pass |
| Mid | 2437 | -17.09 | - | 8.00 | Pass |
| High | 2462 | -18.27 | - | | Pass |

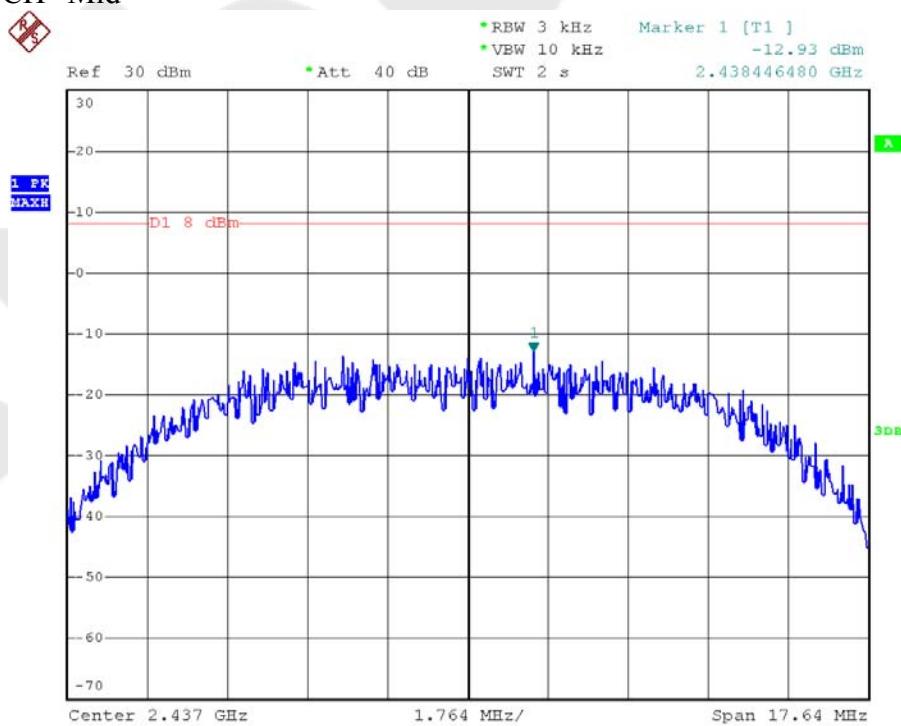
Test mode: IEEE 802.11n (HT40)

| Channel | Frequency (MHz) | PPSD (dBm/3KHz) | Σ PPSD (dBm/3KHz) | Limit (dBm) | Result |
|---------|-----------------|-----------------|--------------------------|-------------|--------|
| Low | 2422 | -18.30 | - | | Pass |
| Mid | 2437 | -18.67 | - | 8.00 | Pass |
| High | 2452 | -18.99 | - | | Pass |

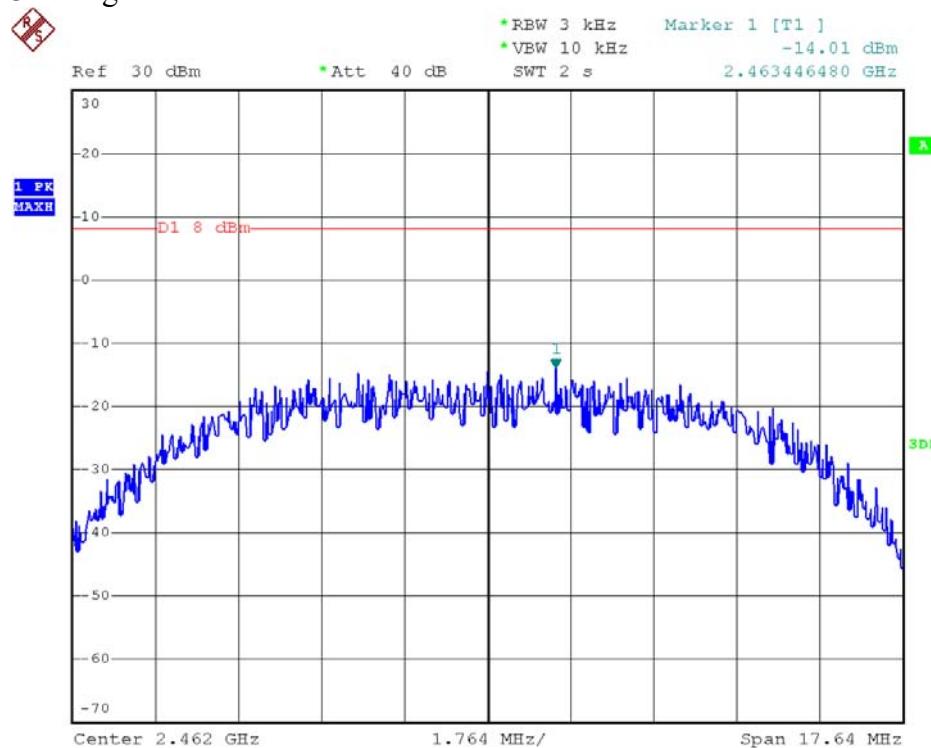
802.11 b CH--Low



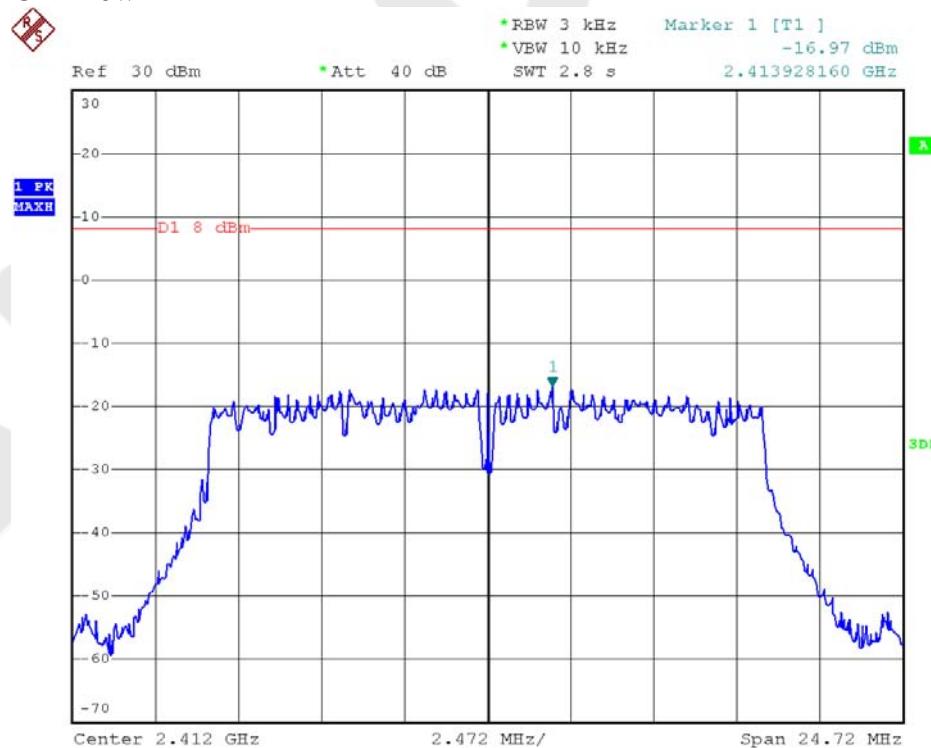
802.11 b CH--Mid



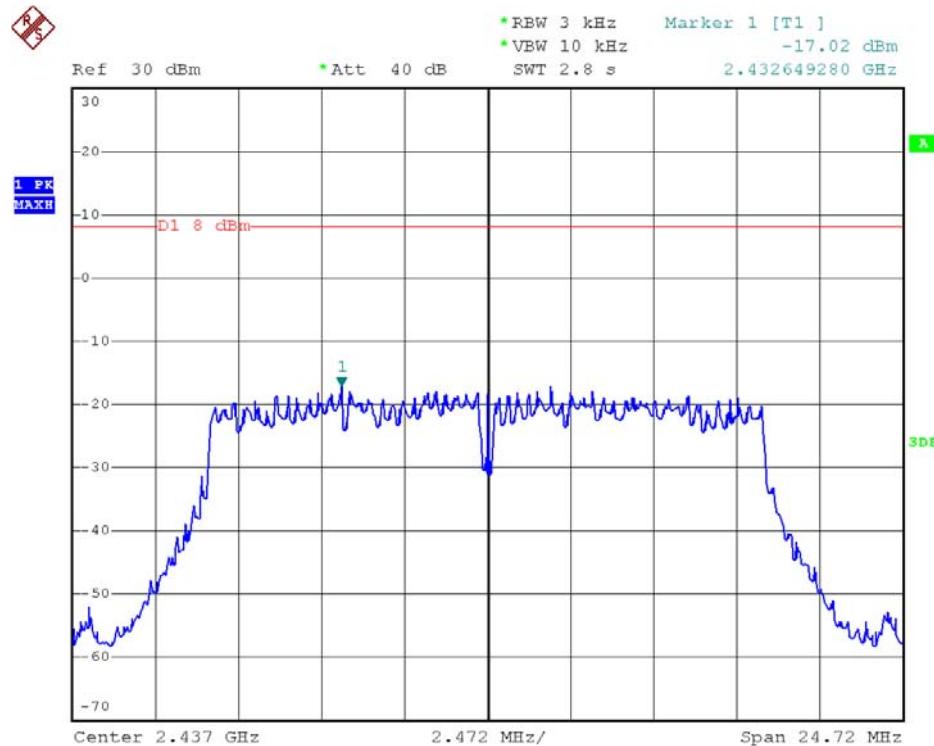
802.11 b CH--High



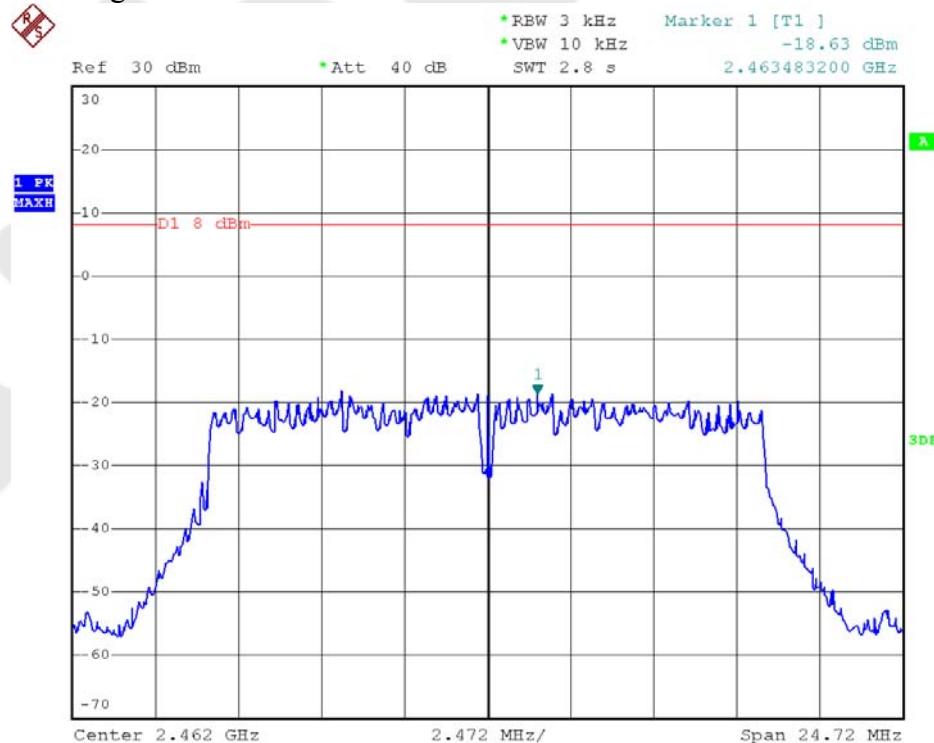
802.11g CH--Low



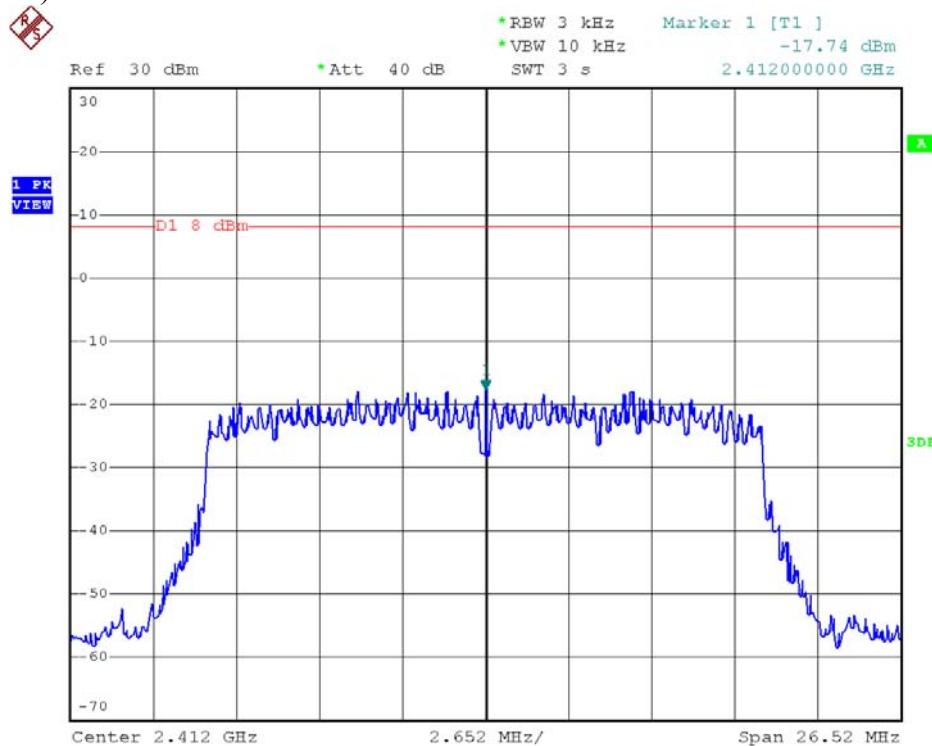
802.11g CH--Mid



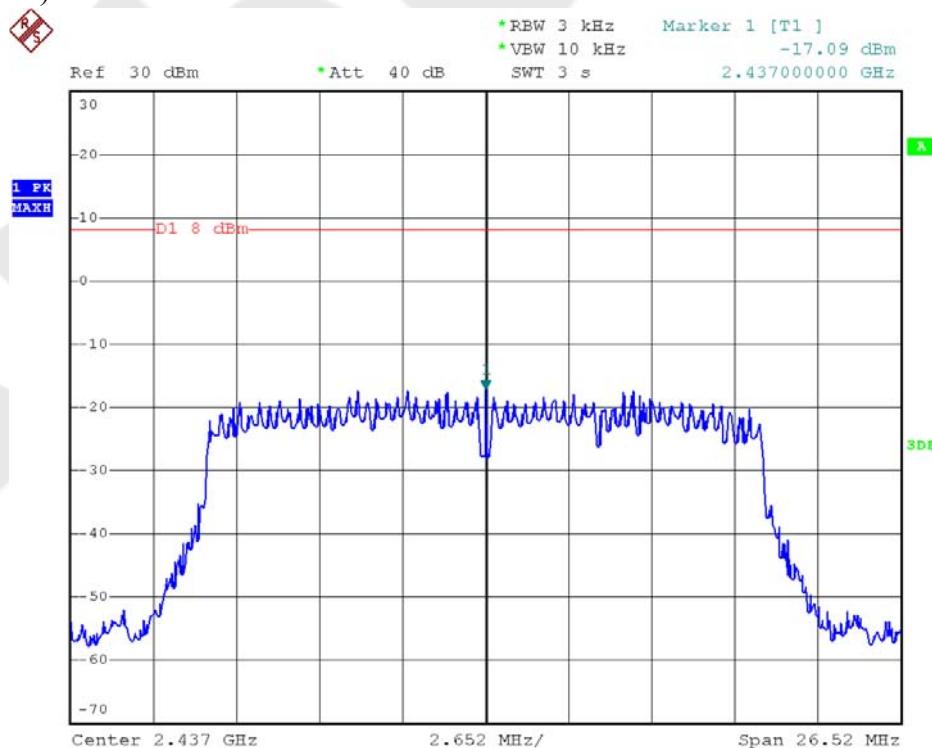
802.11g CH--High



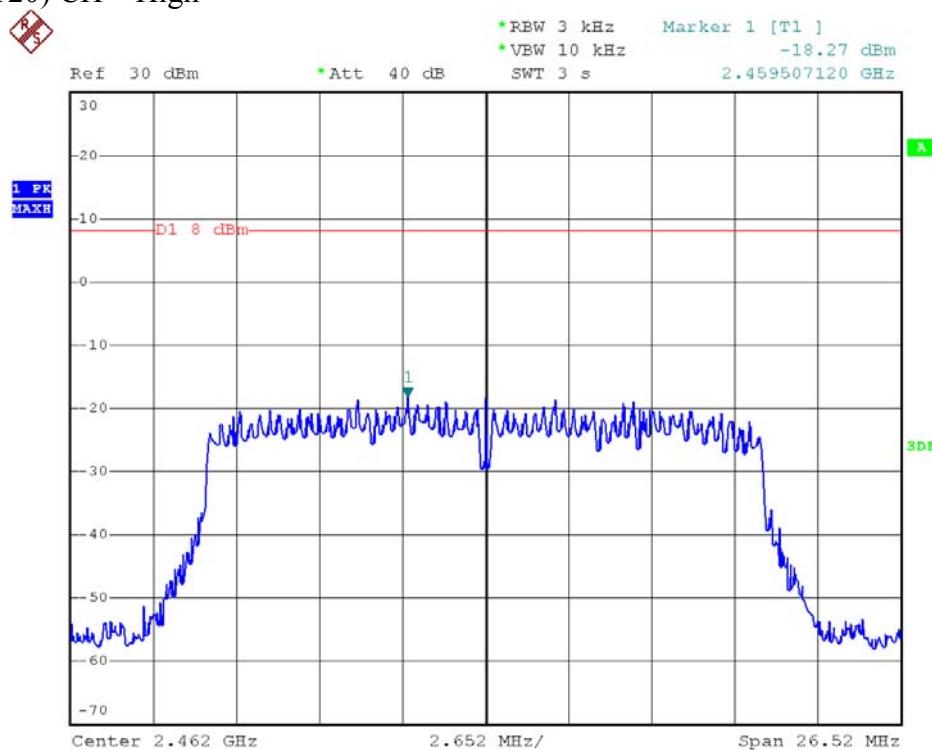
802.11n (HT20) CH—Low



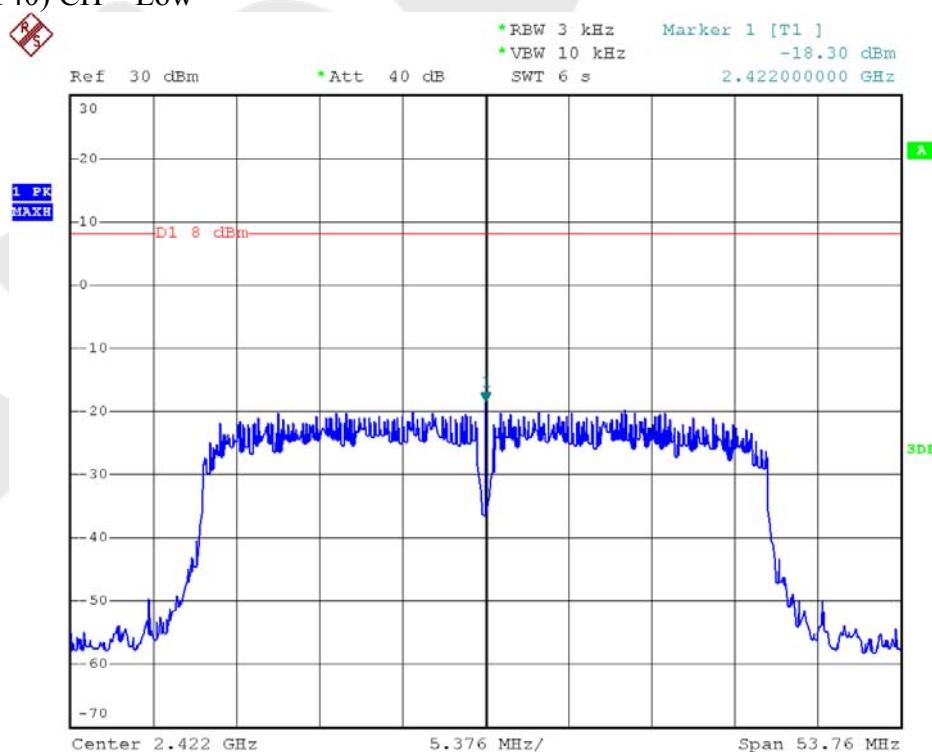
802.11n (HT20) CH—Mid



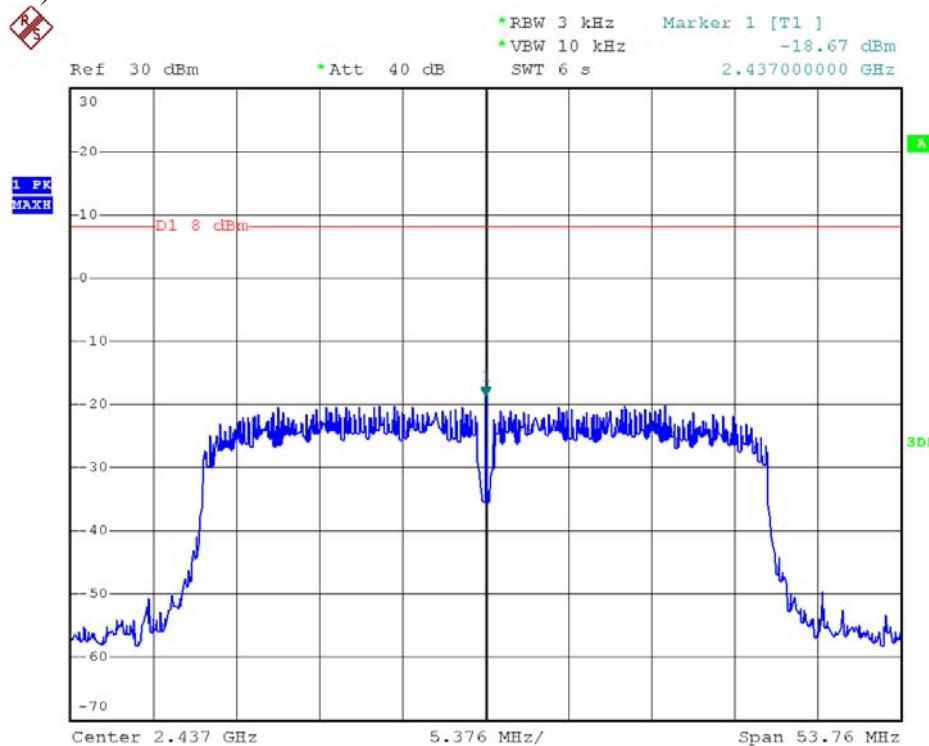
802.11n (HT20) CH—High



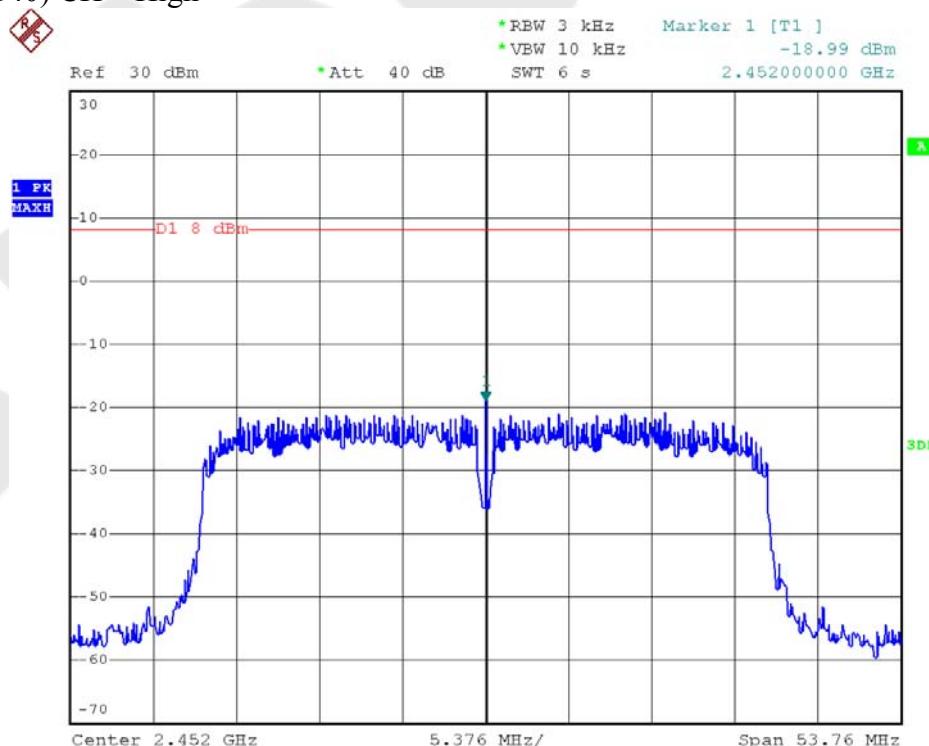
802.11n (HT40) CH—Low



802.11n (HT40) CH—Mid



802.11n (HT40) CH—High



4.6. Radiated Emissions

4.6.1.1. Test Limits (< 30 MHZ)

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meter) |
|--------------------|--------------------------------------|---------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |

4.6.1.2. Test Limits (\geq 30 MHZ)

| FIELD STRENGTH of Fundamental: @3M | FIELD STRENGTH of Harmonics | S15.209 30 - 88 MHz | 40 dB μ V/m |
|--|--------------------------------|------------------------|-----------------|
| 902-928 MHZ | | 88 - 216 MHz | 43.5 |
| 2.4-2.4835 GHz | | 216 - 960 MHz | 46 |
| 94 dB μ V/m @3m | 54 dB μ V/m @3m | ABOVE 960 MHz | 54dB μ V/m |

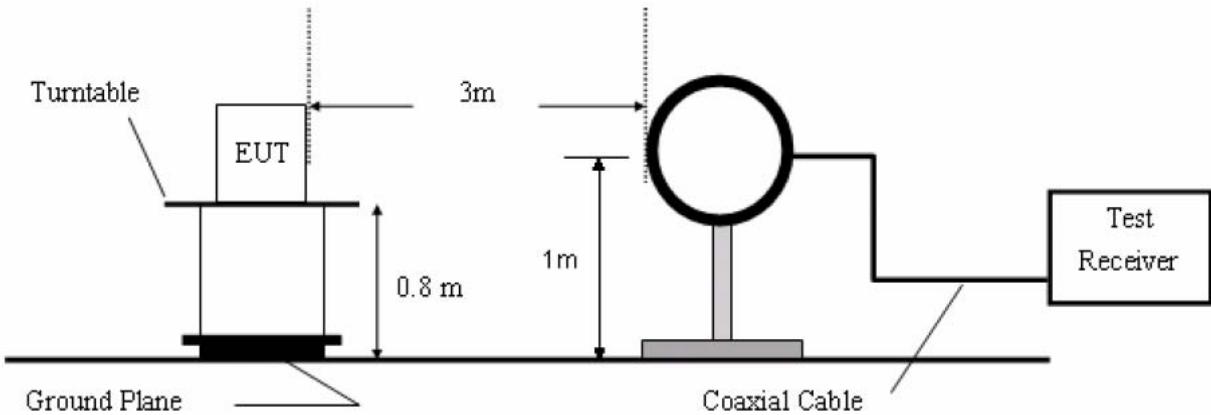
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Test Equipment

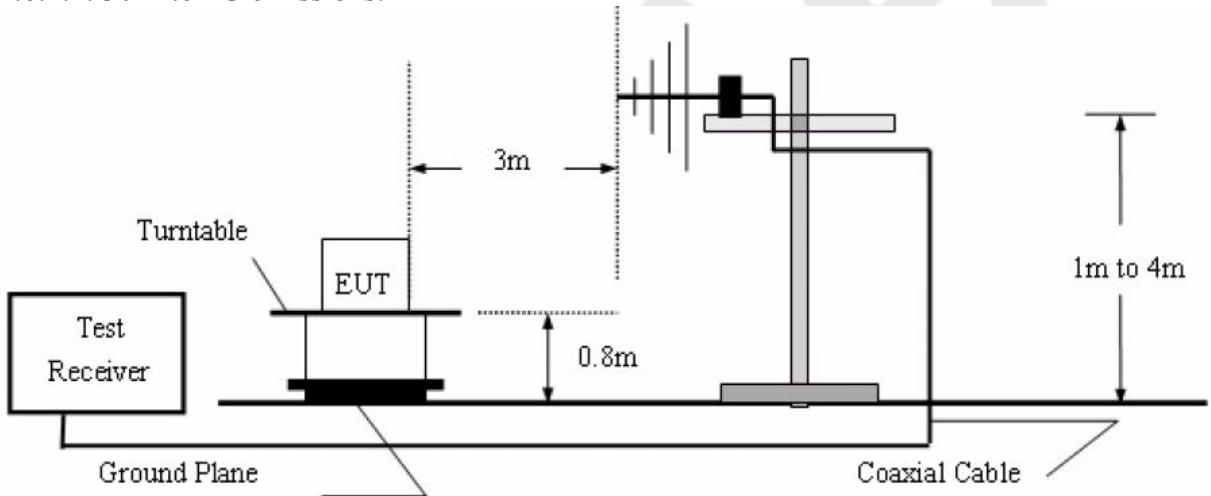
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------------------|-------------------------|-----------|---------------|---------------|---------------|
| 1. | Preamplifier | Instruments corporation | EMC011830 | 980100 | Aug. 09, 2014 | 1 Year |
| 2. | EMI Test Receiver | Rohde & Schwarz | ESPI | 101604 | Apr. 23, 2014 | 1 Year |
| 3. | Double Ridged Horn Antenna | Instruments corporation | GTH-0118 | 351600 | Aug. 09, 2013 | 3 Year |
| 4. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | VULB 9163-289 | Apr. 23, 2013 | 3 Year |
| 5. | Pre-amplifier | SONOMA | 310N | 186860 | Apr. 23, 2014 | 1 Year |
| 6. | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | N/A | N/A |

4.6.2. Test Configuration:

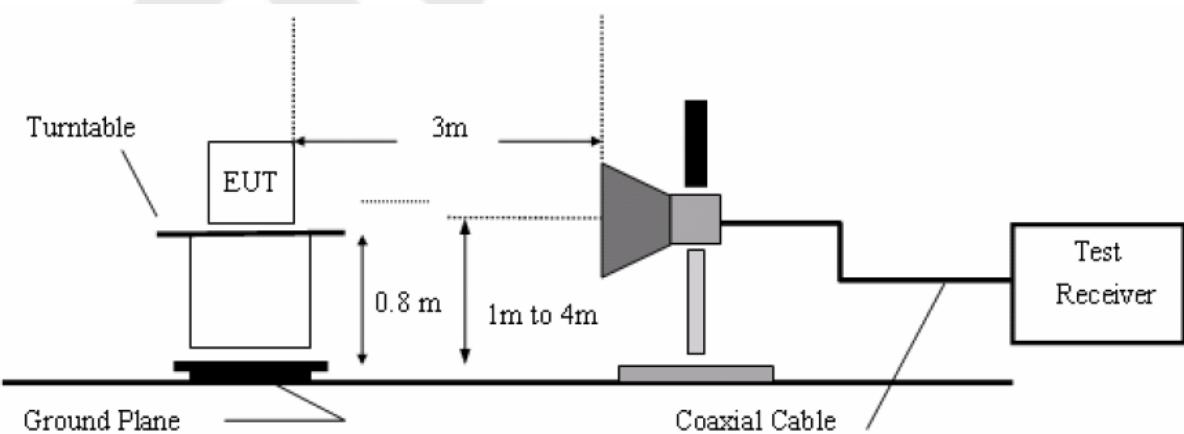
4.6.2.1. 9k to 30MHz emissions:



4.6.2.2. 30M to 1G emissions:



4.6.2.3. 1G to 40G emissions:



4.6.3. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Measurements are made on 9KHz to 30MHz and 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

All readings from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All reading are above 1GHz, peak & average values with a resolution bandwidth of 1MHz.

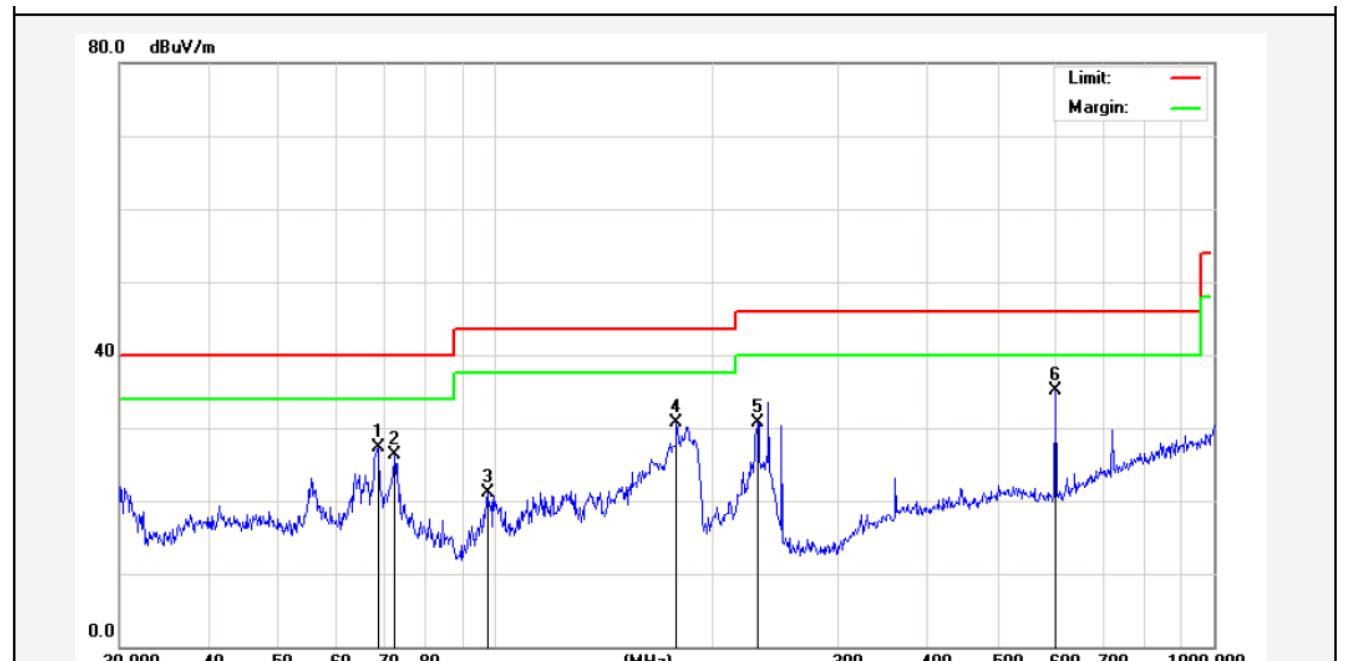
The EUT is tested in 9*6*6 Chamber.

The test results are listed in Section 4.6.4.

4.6.4. Test Results

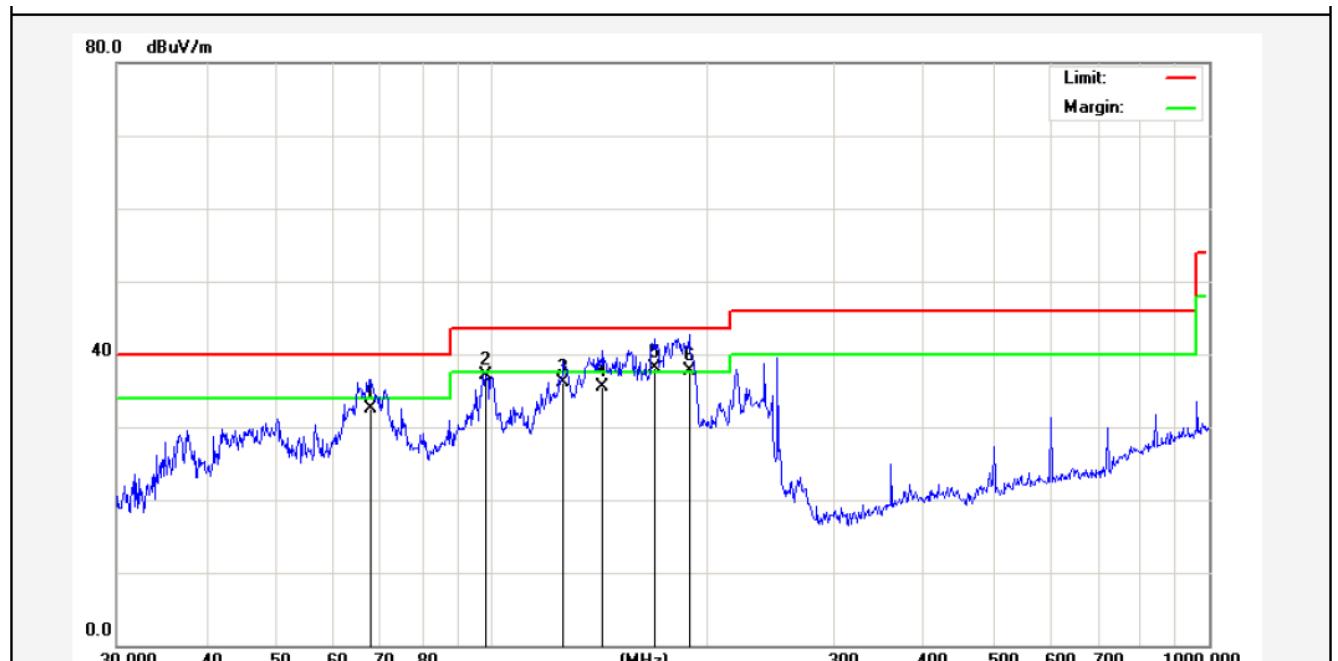
Please refer to the following pages.

| | | | |
|------------|----------------------|---------------------|--------------------------|
| Job No.: | 011407007E | Polarization: | Horizontal |
| Standard: | (RE)FCC PART15 C _3m | Power Source: | AC 120V/60Hz for Adapter |
| Test item: | Radiation Test | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Test Mode: | On | Distance: | 3m |



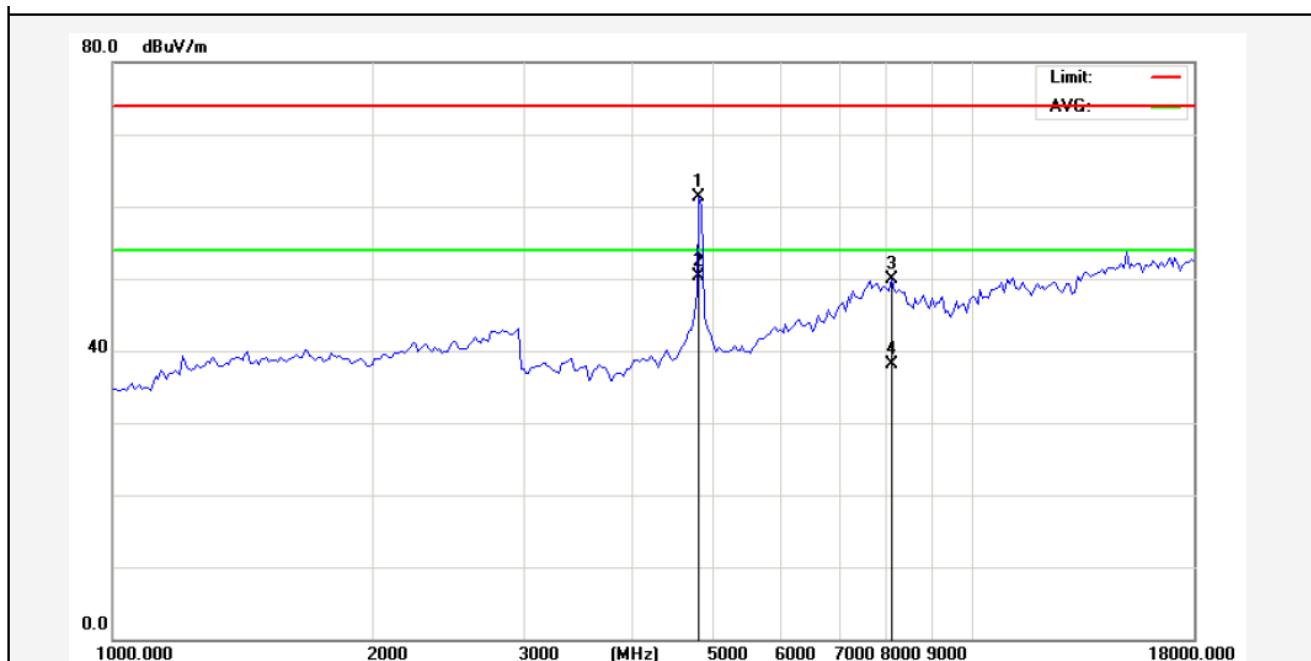
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|----------------|---------------------|------------------|--------------------|-----------------|--------------------|----------|----------------|-----------------|--------|
| 1 | 68.6310 | 46.26 | -19.04 | 27.22 | 40.00 | -12.78 | peak | | | |
| 2 | 72.3375 | 46.30 | -20.08 | 26.22 | 40.00 | -13.78 | peak | | | |
| 3 | 97.4560 | 42.02 | -20.89 | 21.13 | 43.50 | -22.37 | peak | | | |
| 4 | 178.7583 | 52.63 | -21.94 | 30.69 | 43.50 | -12.81 | peak | | | |
| 5 | 231.7178 | 49.65 | -18.92 | 30.73 | 46.00 | -15.27 | peak | | | |
| 6 | 601.4265 | 46.34 | -11.20 | 35.14 | 46.00 | -10.86 | peak | | | |

| | | | |
|------------|----------------------|---------------------|--------------------------|
| Job No.: | 011407007E | Polarization: | Vertical |
| Standard: | (RE)FCC PART15 C _3m | Power Source: | AC 120V/60Hz for Adapter |
| Test item: | Radiation Test | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Test Mode: | On | Distance: | 3m |



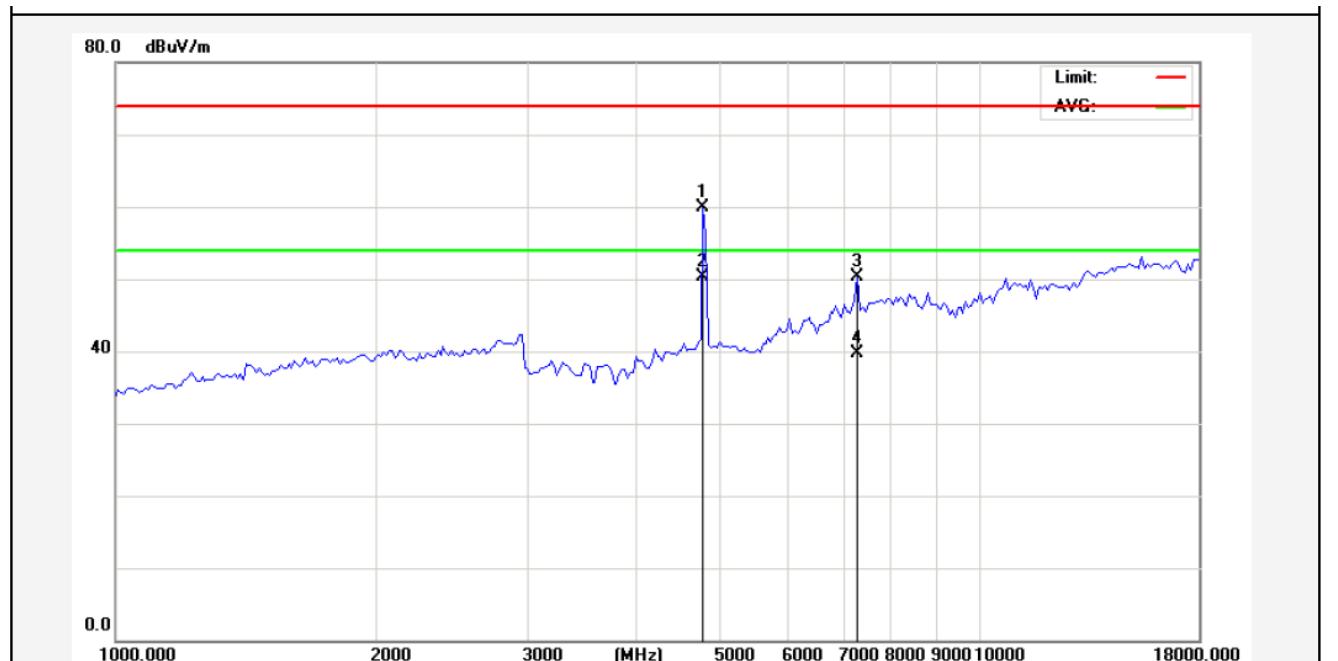
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|----------------|---------------------|------------------|--------------------|-----------------|--------------------|----------|----------------|-----------------|--------|
| 1 | 67.6751 | 51.11 | -18.62 | 32.49 | 40.00 | -7.51 | QP | 100 | 360 | |
| 2 | 98.1419 | 53.03 | -15.86 | 37.17 | 43.50 | -6.33 | peak | | | |
| 3 | 125.8864 | 53.37 | -17.20 | 36.17 | 43.50 | -7.33 | QP | 100 | 0 | |
| 4 | 142.8243 | 53.98 | -18.45 | 35.53 | 43.50 | -7.97 | QP | 100 | 360 | |
| 5 | 169.0054 | 55.61 | -17.60 | 38.01 | 43.50 | -5.49 | QP | 100 | 0 | |
| 6 | 189.2925 | 53.67 | -15.99 | 37.68 | 43.50 | -5.82 | QP | 100 | 360 | |

| | | | |
|------------|----------------------|---------------------|--------------------------|
| Job No.: | 011407007E | Polarization: | Horizontal |
| Standard: | (RE)FCC PART15 C _3m | Power Source: | AC 120V/60Hz for Adapter |
| Test item: | Radiation Test | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Note: | 802.11b(2412MHz) | Distance: | 3m |



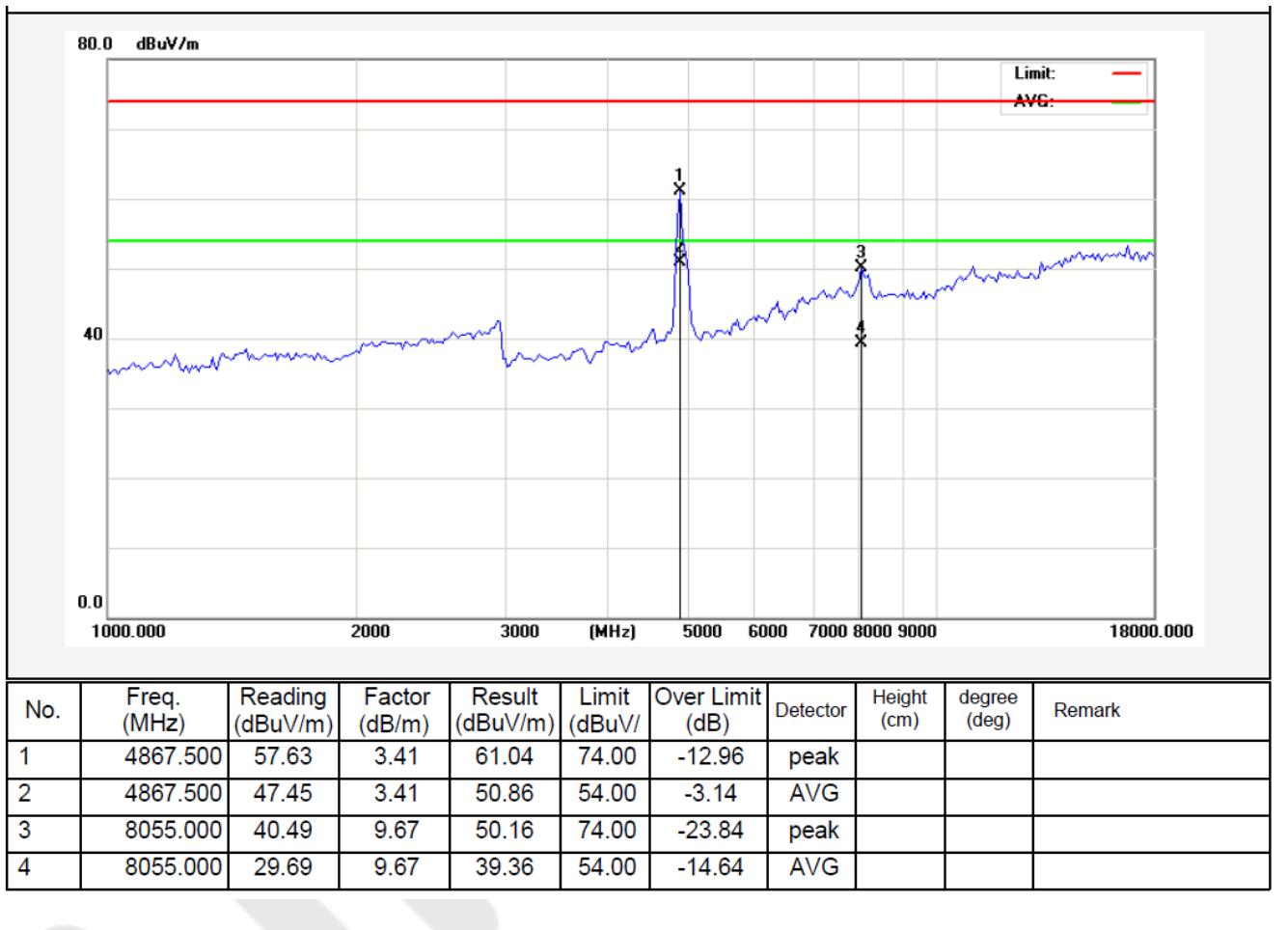
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|--------------|-----------------|----------|-------------|--------------|--------|
| 1 | 4825.000 | 57.91 | 3.34 | 61.25 | 74.00 | -12.75 | peak | | | |
| 2 | 4825.000 | 46.91 | 3.34 | 50.25 | 54.00 | -3.75 | AVG | | | |
| 3 | 8055.000 | 40.18 | 9.67 | 49.85 | 74.00 | -24.15 | peak | | | |
| 4 | 8055.000 | 28.44 | 9.67 | 38.11 | 54.00 | -15.89 | AVG | | | |

| | | | |
|------------|----------------------|---------------------|--------------------------|
| Job No.: | 011407007E | Polarization: | Vertical |
| Standard: | (RE)FCC PART15 C _3m | Power Source: | AC 120V/60Hz for Adapter |
| Test item: | Radiation Test | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Note: | 802.11b(2412MHz) | Distance: | 3m |

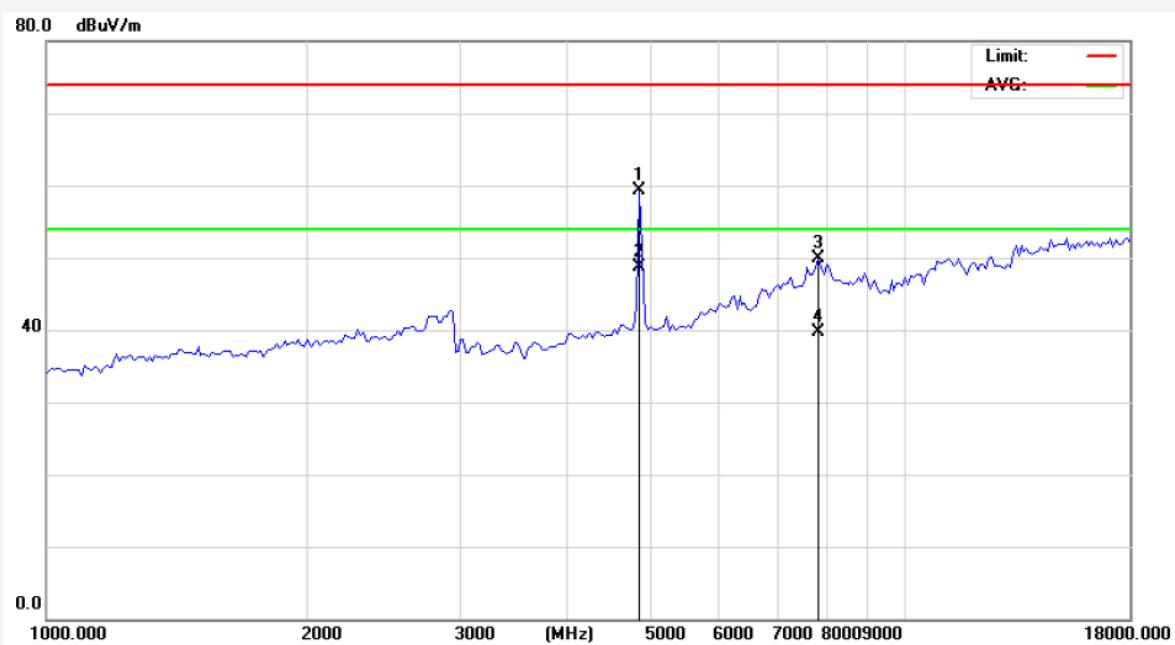


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|--------------|-----------------|----------|-------------|--------------|--------|
| 1 | 4825.000 | 56.48 | 3.34 | 59.82 | 74.00 | -14.18 | peak | | | |
| 2 | 4825.000 | 46.90 | 3.34 | 50.24 | 54.00 | -3.76 | Avg | | | |
| 3 | 7247.500 | 41.75 | 8.48 | 50.23 | 74.00 | -23.77 | peak | | | |
| 4 | 7247.500 | 31.16 | 8.48 | 39.64 | 54.00 | -14.36 | Avg | | | |

| | | | |
|------------|----------------------|---------------------|--------------------------|
| Job No.: | 011407007E | Polarization: | Horizontal |
| Standard: | (RE)FCC PART15 C _3m | Power Source: | AC 120V/60Hz for Adapter |
| Test item: | Radiation Test | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Note: | 802.11b(2437MHz) | Distance: | 3m |

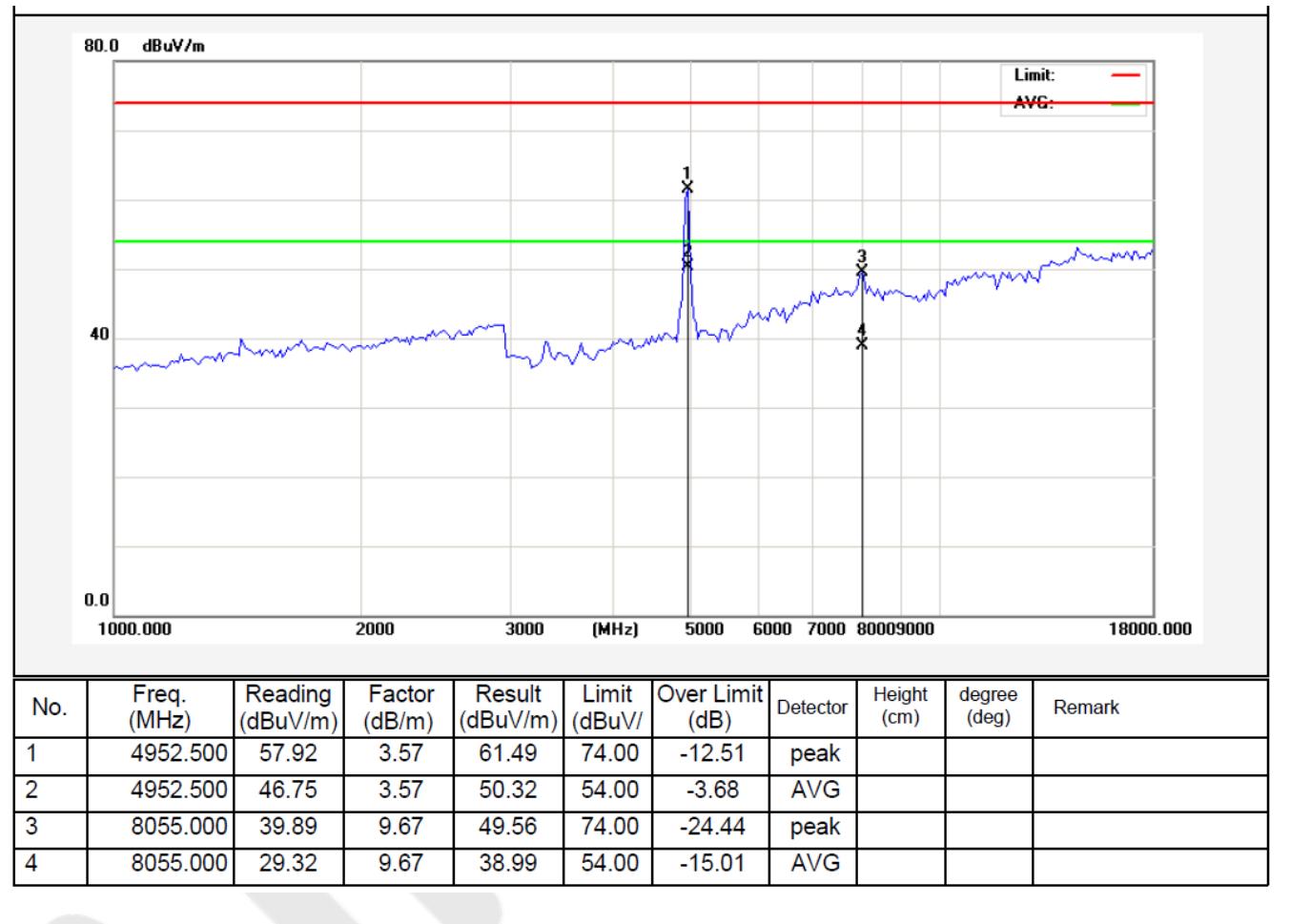


| | | | |
|------------|----------------------|---------------------|--------------------------|
| Job No.: | 011407007E | Polarization: | Vertical |
| Standard: | (RE)FCC PART15 C _3m | Power Source: | AC 120V/60Hz for Adapter |
| Test item: | Radiation Test | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Note: | 802.11b(2437MHz) | Distance: | 3m |

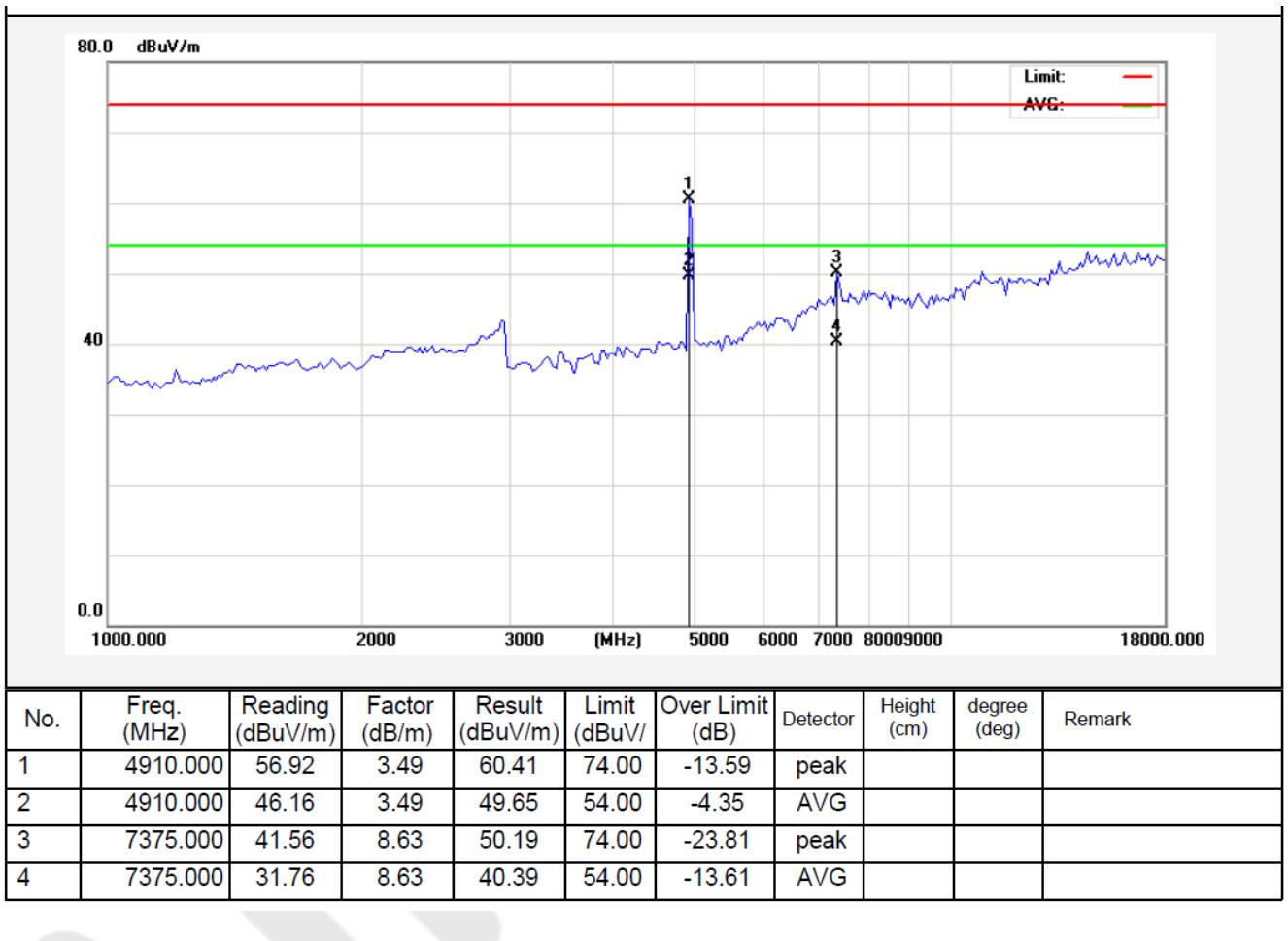


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|----------------|---------------------|------------------|--------------------|-----------------|--------------------|----------|----------------|-----------------|--------|
| 1 | 4867.500 | 55.93 | 3.41 | 59.34 | 74.00 | -14.66 | peak | | | |
| 2 | 4867.500 | 45.23 | 3.41 | 48.64 | 54.00 | -5.36 | Avg | | | |
| 3 | 7885.000 | 40.49 | 9.47 | 49.96 | 74.00 | -24.04 | peak | | | |
| 4 | 7885.000 | 30.16 | 9.47 | 39.63 | 54.00 | -14.37 | Avg | | | |

| | | | |
|------------|----------------------|---------------------|--------------------------|
| Job No.: | 011407007E | Polarization: | Horizontal |
| Standard: | (RE)FCC PART15 C _3m | Power Source: | AC 120V/60Hz for Adapter |
| Test item: | Radiation Test | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Note: | 802.11b(2462MHz) | Distance: | 3m |



| | | | |
|------------|----------------------|---------------------|--------------------------|
| Job No.: | 011407007E | Polarization: | Vertical |
| Standard: | (RE)FCC PART15 C _3m | Power Source: | AC 120V/60Hz for Adapter |
| Test item: | Radiation Test | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Note: | 802.11b(2462MHz) | Distance: | 3m |



5. PHOTOGRAPH

5.1. Photo of Conducted Emission Measurement



5.2. Photo of Radiation Emission Test



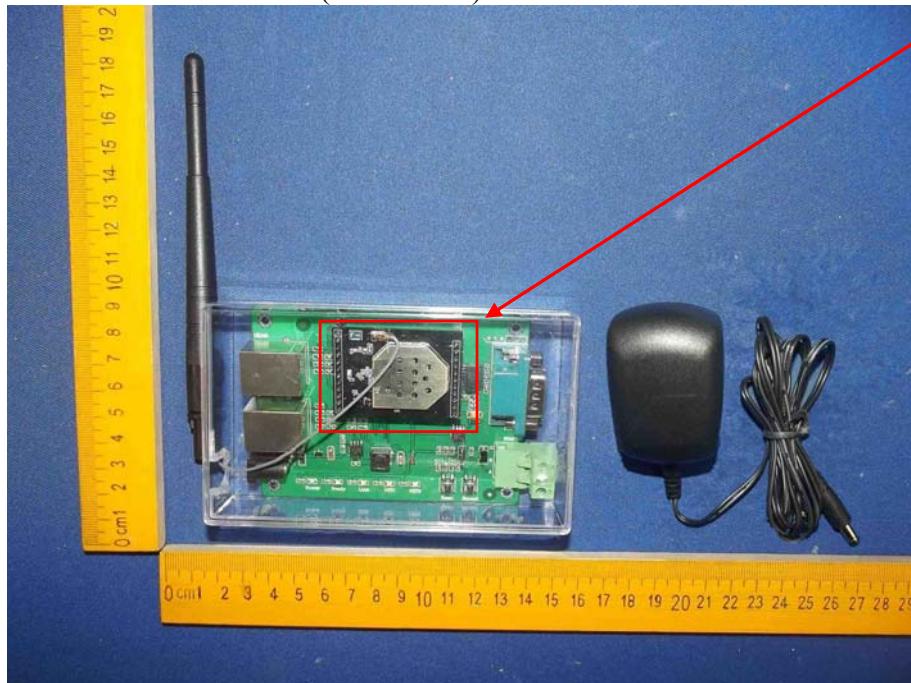


Anbo

APPENDIX I (EXTERNAL PHOTOS)

Figure 1

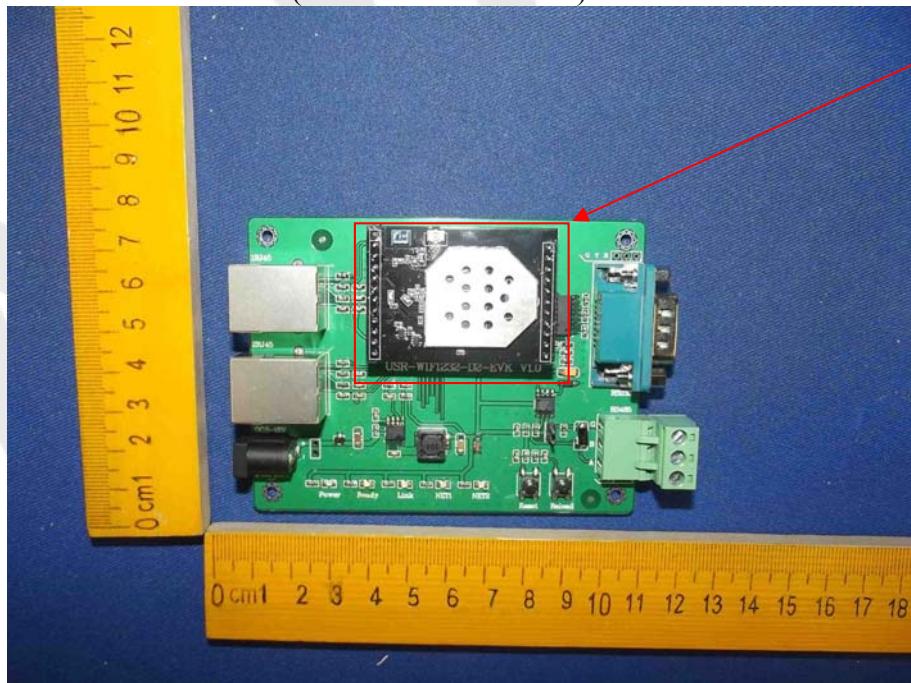
The EUT-Overall View (In the Host)



The EUT is placed in the host.

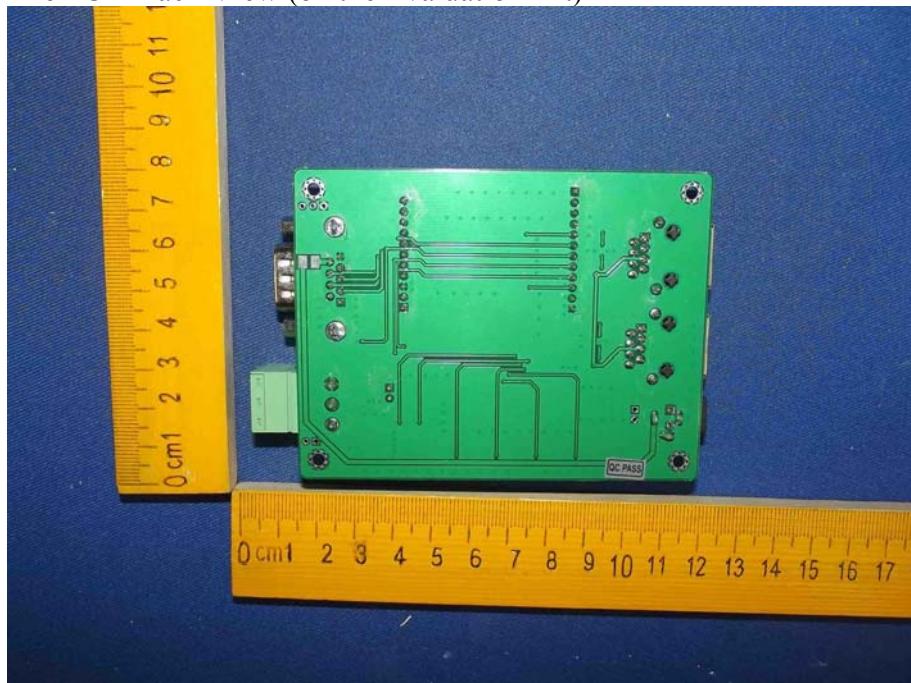
Figure 2

The PCB-Front View (on the Evaluation Kit)



The module is placed on the Evaluation Kit.

Figure 3
The PCB-Back View (on the Evaluation Kit)



APPENDIX II (INTERNAL PHOTOS)

Figure 4
The EUT-Front View (With Shielding)

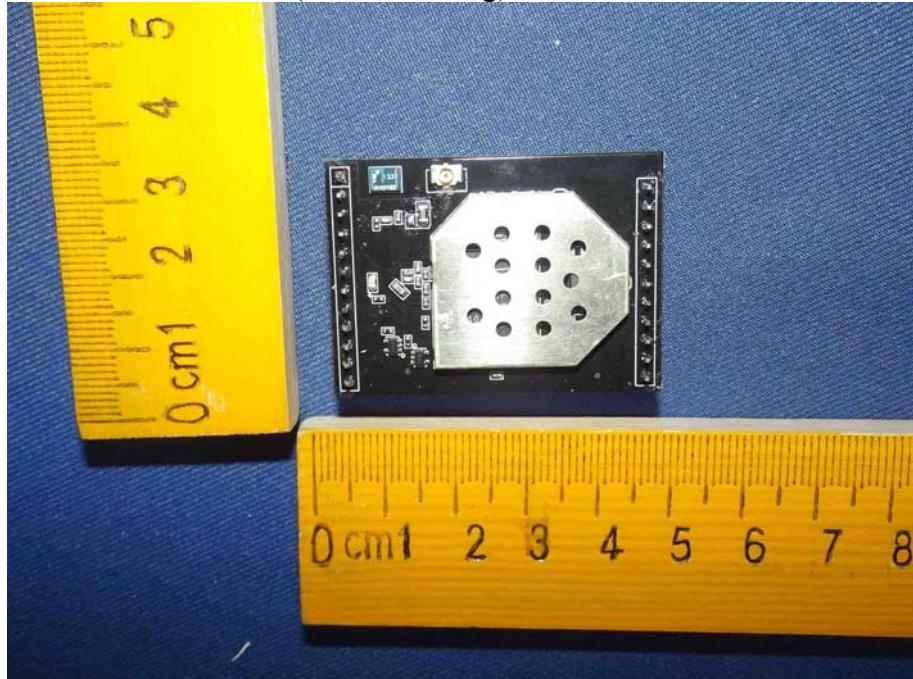


Figure 5
The EUT-Front View (Without Shielding)

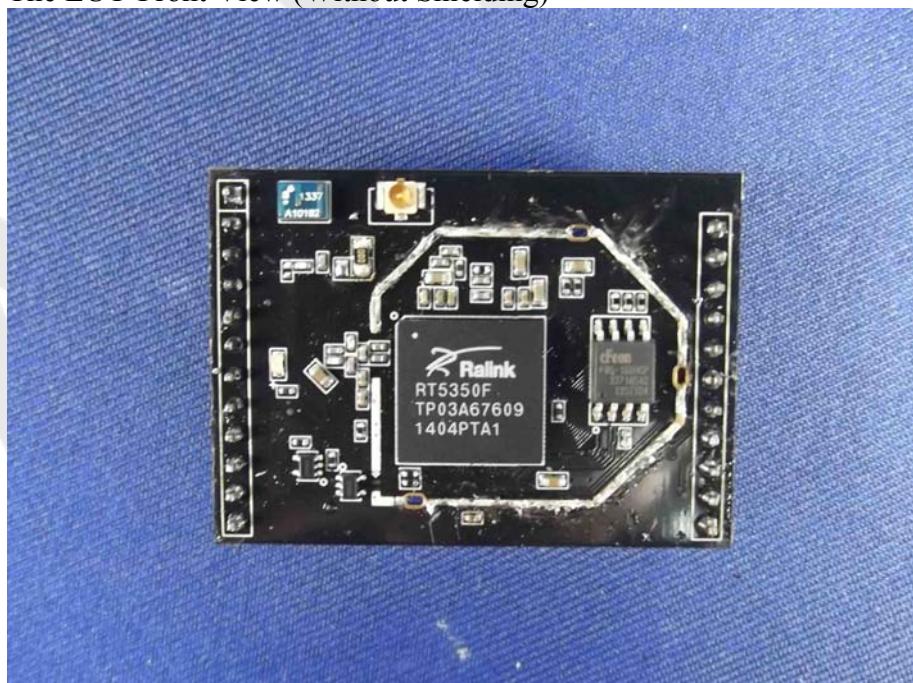


Figure 6
The EUT-Back View

