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# *FCC 15.247& RSS-247*
# 2.4 GHz Report
# *for*

## Lite-On Technology Corporation

## 22F, No. 392, Ruey Kuang Road, Neihu, Taipei 11492, Taiwan

| | | |
|---|---|---|
| **Product Name** | **:** | **Wi-Fi DVD/CD DRIVE** |
| **Brand** | **:** | **LITEON** |
| **Model Name** | **:** | **DN-8A6WH01B** |
| **FCC ID** | **:** | **2AI6TDN8A6WH** |
| **IC** | **:** | **21755-DN8A6WH** |

**Prepared by:** **:** **AUDIX Technology Corporation, EMC Department**

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# TEST REPORT CERTIFICATION

| | | |
|---|---|---|
| Applicant | : | Lite-On Technology Corporation |
| Product Name | : | Wi-Fi DVD/CD DRIVE |
| Model No. | : | DN-8A6WH01B |
| Serial No. | : | N/A |
| Brand Name | : | LITEON |

Applicable Standards:

47 CFR FCC Part 15 Subpart C: 2015
RSS-Gen (Issue 4), November 2014
RSS-247 (Issue 1), May 2015
ANSI C63.10:2013
KDB 558074 D01 DTS Meas Guidance v03r05

***AUDIX Technology Corp.*** tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report. ***AUDIX Technology Corp.*** does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Test: 2016. 07. 11 ~ 09. 12 Date of Report: 2016. 09. 12

Producer: Sabrina Wang
(Sabrina Wang/Administrator)

Signatory: Ben Cheng
(Ben Cheng/Manager)

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# 1. REPORT HISTORY

| Revision | Date | Revision Summary | Report Number |
|---|---|---|---|
| 0 | 2016. 08. 30 | Original Report. | EM-F160479 |

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# 2. SUMMARY OF TEST RESULTS

| Rule | | Description | Results |
|---|---|---|---|
| **FCC** | **IC** | | |
| 15.207 | RSS-Gen §8.8 | Conducted Emission | **PASS** |
| 15.247(d)/ 15.205 | RSS-Gen §8.9 RSS-247 §5.5 | Radiated Band Edge and Radiated Spurious Emission | **PASS** |
| 15.247(a)(2) | RSS-247 §5.2(1) | 6dB Bandwidth | **PASS** |
| 15.247(b)(3) | RSS-247 §5.4(4) | Maximum Peak Output | **PASS** |
| 15.247(d) | RSS-247 §5.5 | Conducted Band Edges and Conducted Spurious Emission | **PASS** |
| 15.247 (e) | RSS-247 §5.2(2) | Peak Power Spectral Density | **PASS** |
| 15.203 | ---- | Antenna Requirement | **PASS** |

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# 3. GENERAL INFORMATION

## 3.1. Description of EUT

| | |
|---|---|
| Product | Wi-Fi DVD/CD DRIVE |
| Model Number | DN-8A6WH01B |
| Serial Number | N/A |
| Brand | LITEON |
| Applicant | Lite-On Technology Corporation<br>22F, No. 392, Ruey Kuang Road, Neihu, Taipei 11492, Taiwan |
| RF Features | 802.11/b/g/n |
| Transmit Type | 802.11b: 1T1R<br>802.11g: 1T1R<br>802.11n-HT20: 1T1R<br>802.11n-HT40: 1T1R |
| Switch Power Supply (Wall-mount, 2C) | PHIHONG, M/N: PSAF10A-050Q<br>I/P: AC 100-240V, 50/60Hz, 0.28A<br>O/P: DC 12V, 2A Max. |
| | DC (USB) Power Cord: Unshielded, Undetachable, 1.0m |
| Date of Receipt of Sample | 2016. 06. 29 |

## 3.2. Antenna Information

| Antenna Part Number | Brand | Antenna Type | Frequency | Max Gain (dBi) |
|---|---|---|---|---|
| MW0118MT | PSA | Printed Antenna | 2400-2500MHz | 2.99dBi |

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## 3.3. EUT Specifications Assessed in Current Report

| Mode | Fundamental Range (MHz) | Channel Number | Modulation | Data Rate (Mbps) |
|---|---|---|---|---|
| 802.11b | 2412-2462 | 11 | DSSS (DBPSK/DQPSK/CCK) | Up to 11 |
| 802.11g | | 11 | OFDM (BPSK/QPSK/16QAM/64QAM) | Up to 54 |
| 802.11n-HT20 | | | | Up to 150 |
| 802.11n-HT40 | 2412-2452 | 7 | | |

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

| RMS Output Power(dBm) | | | | |
|---|---|---|---|---|
| Channel | 802.11b | 802.11g | 802.11n-HT20 | 802.11n-HT40 |
| 1 | 18 | 14.5 | | |
| 2 | 18 | 14.5 | | |
| 3 | 18 | 14.5 | 14 | 11.0 |
| 4 | 18 | 14.5 | 14 | 11.0 |
| 5 | 18 | 14.5 | 14 | 11.0 |
| 6 | 18 | 17.0 | 15 | 14.0 |
| 7 | 18 | 12.5 | 13.5 | 11.5 |
| 8 | 18 | 12.5 | 13.5 | 11.5 |
| 9 | 18 | 12.5 | 13.5 | 11.5 |
| 10 | 18 | 12.5 | | |
| 11 | 18 | 12.5 | | |

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## 3.4. Data Rate Relative to Output Power

| 802.11b | | | |
|---|---|---|---|
| Channel | Modulation | Date Rate (Mbps) | Power (dBm) |
| 1 | DBPSK | 1 | **18.30** |
| 1 | DQPSK | 2 | **18.18** |
| 1 | CCK | 5.5 | **18.05** |
| 1 | CCK | 11 | **18.23** |

| 802.11g | | | |
|---|---|---|---|
| Channel | Modulation | Date Rate (Mbps) | Power (dBm) |
| 1 | BPSK | 6 | **14.32** |
| 1 | BPSK | 9 | **14.11** |
| 1 | QPSK | 12 | **14.08** |
| 1 | QPSK | 18 | **14.22** |
| 1 | 16-QAM | 24 | **14.03** |
| 1 | 16-QAM | 36 | **14.15** |
| 1 | 64-QAM | 48 | **14.28** |
| 1 | 64-QAM | 54 | **14.09** |

| 802.11n-HT20 | | | | 802.11n-HT40 | | | |
|---|---|---|---|---|---|---|---|
| Channel | Modulation | Date Rate | Power (dBm) | Channel | Modulation | Date Rate | Power (dBm) |
| 1 | BPSK | MCS0 | **14.15** | 3 | BPSK | MCS0 | **11.65** |
| 1 | QPSK | MCS1 | **14.03** | 3 | QPSK | MCS1 | **11.58** |
| 1 | QPSK | MCS2 | **13.96** | 3 | QPSK | MCS2 | **11.49** |
| 1 | 16-QAM | MCS3 | **14.08** | 3 | 16-QAM | MCS3 | **11.61** |
| 1 | 16-QAM | MCS4 | **14.02** | 3 | 16-QAM | MCS4 | **11.52** |
| 1 | 64-QAM | MCS5 | **13.94** | 3 | 64-QAM | MCS5 | **11.42** |
| 1 | 64-QAM | MCS6 | **14.12** | 3 | 64-QAM | MCS6 | **11.37** |
| 1 | 64-QAM | MCS7 | **14.07** | 3 | 64-QAM | MCS7 | **11.50** |

Note: Above results are assessed in Average power.

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## 3.5. Test Configuration

| Mode | Duty Cycle (x) | T (ms) | Duty Cycle Factor (dB) |
|---|---|---|---|
| 802.11b | 0.98 | 8.4 | 0.09 |
| 802.11g | 0.95 | 1.4 | 0.20 |
| 802.11n-HT20 | 0.93 | 1.3 | 0.30 |
| 802.11n-HT40 | 0.85 | 0.6083 | 0.71 |

Note: When duty cycle is less than 98% (0.98) that duty cycle factor 10log(1/x) is needed to add in conducted test items measured in average detector.

| AC Conduction | |
|---|---|
| Test Case | Normal operation |

| Item | | Mode | Data Rate | Test Channel |
|---|---|---|---|---|
| Radiated Test Case | Radiated Band Edge Note1 | 802.11b | 1Mbps | 1/11 |
| | | 802.11g | 6Mbps | 1/2/10/11 |
| | | 802.11n-HT20 | MCS0 | 1/2/10/11 |
| | | 802.11n-HT40 | MCS0 | 3/4/8/9 |
| | Radiated Spurious Emission Note1 & 2 | 802.11b | 1Mbps | 1/6/11 |
| | | 802.11g | 6Mbps | 1/6/11 |
| | | 802.11n-HT20 | MCS0 | 1/6/11 |
| | | 802.11n-HT40 | MCS0 | 3/6/9 |
| Conducted Test Case | 6dB Bandwidth | 802.11b | 1Mbps | 1/6/11 |
| | | 802.11g | 6Mbps | 1/6/11 |
| | | 802.11n-HT20 | MCS0 | 1/6/11 |
| | | 802.11n-HT40 | MCS0 | 3/6/9 |
| | Peak Power Spectral Density | 802.11b | 1Mbps | 1/6/11 |
| | | 802.11g | 6Mbps | 1/6/11 |
| | | 802.11n-HT20 | MCS0 | 1/6/11 |
| | | 802.11n-HT40 | MCS0 | 3/6/9 |
| | Peak Output Power | 802.11b | 1Mbps | 1/2/10/11 |
| | | 802.11g | 6Mbps | 1/2/10/11 |
| | | 802.11n-HT20 | MCS0 | 1/2/10/11 |
| | | 802.11n-HT40 | MCS0 | 3/4/8/9 |
| | Band Edge | 802.11b | 1Mbps | 1/11 |
| | | 802.11g | 6Mbps | 1/11 |
| | | 802.11n-HT20 | MCS0 | 1/11 |
| | | 802.11n-HT40 | MCS0 | 3/9 |
| | Spurious Emission | 802.11b | 1Mbps | 1/6/11 |
| | | 802.11g | 6Mbps | 1/6/11 |
| | | 802.11n-HT20 | MCS0 | 1/6/11 |
| | | 802.11n-HT40 | MCS0 | 3/6/9 |

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Note 1:

☐Mobile Device

■Portable Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow:

■ Lie

☐ Side

☐ Stand

Note 2: Low, mid, and high channels were measured, only the worst channel of each modulation was presented in this report.

## 3.6. Tested Supporting System List

### 3.6.1. Support Peripheral Unit

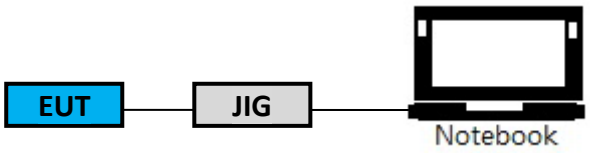
| No. | Product | Brand | Model No. | Serial No. | FCC ID |
|---|---|---|---|---|---|
| 1. | Notebook PC | ASUS | X5502E | N/A | PPD-AAR5B225 |
| 2. | Test Jig | N/A | N/A | N/A | N/A |

### 3.6.2. Cable Lists

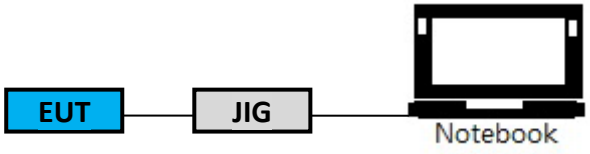
| No. | Cable Description Of The Above Support Units |
|---|---|
| 1. | USB Cable: Unshielded, Detachable, 1.0m<br>Adapter: Enerironix, M/N M/N EXA1208UH,<br>DC Power Cord: Unshielded, Detachable, 1.8m<br>AC Power Cord: Shielded, Undetachable, 1.8m, Bonded a ferrite core |
| 2. | USB Cable: Non-Shielded, Detachable, 1.0m |

## 3.7. Setup Configuration

### 3.7.1. EUT Configuration for Power Line & Radiated Emission




### 3.7.2. EUT Configuration for Conducted Test Items




## 3.8. Operating Condition of EUT

Test program “QA Tool” is used for enabling EUT WLAN function under continues transmitting and choosing data rate/ channel.

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## 3.9. Description of Test Facility

| | | |
|---|---|---|
| Test Firm Name | : | **AUDIX Technology Corporation**<br>**EMC Department**<br>No. 53-11, Dingfu, Linkou Dist.,<br>New Taipei City 244, Taiwan |
| Test Location & Facility | : | **No. 8 Shielded Room**<br>No. 67-4, Dingfu, Linkou Dist.,<br>New Taipei City 244, Taiwan<br>**Semi-Anechoic Chamber**<br>No. 53-11, Dingfu, Linkou Dist.,<br>New Taipei City 244, Taiwan<br>IC Test Site Registration No.: 5183B-1<br>Renewal on September 17, 2014<br>**Fully Anechoic Chamber**<br>No. 53-11, Dingfu, Linkou Dist.,<br>New Taipei City 244, Taiwan<br>IC Test Site Registration No.: 5183B-4<br>Renewal on August 31, 2015 |
| NVLAP Lab. Code | : | 200077-0 |
| TAF Accreditation No | : | 1724 |
| FCC OET Designation | : | TW1004 & TW1090 |

## 3.10. Measurement Uncertainty

| Test Item | Frequency Range | Uncertainty |
|---|---|---|
| Conduction Test | 150kHz~30MHz | ±3.5dB |
| Radiation Test (Distance: 3m) | 30MHz~1000MHz | ± 3.68dB |
| | Above 1GHz | ± 5.82dB |

Remark：Uncertainty = $ku_c(y)$

| Test Item | Uncertainty |
|---|---|
| 6dB Bandwidth | ± 0.05kHz |
| Maximum peak output power | ± 0.33dB |
| Power spectral density | ± 0.13dB |
| Conducted Emission Limitations | ± 0.13dB |

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# 4. MEASUREMENT EQUIPMENT LIST

## 4.1. Conducted Emission Measurement

| Item | Type | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Test Receiver | R&S | ESR3 | 101774 | 2016. 02. 04 | 1 Year |
| 2. | A.M.N. | R&S | ENV4200 | 825358/003 | 2016. 04. 21 | 1 Year |
| 3. | Pulse Limiter | R&S | ESH3-Z2 | 100354 | 2016. 01. 17 | 1 Year |
| 4. | Test Software | Audix | e3 | V.6.120424 | N.C.R. | N.C.R. |

## 4.2. Radiated Emission Measurement

### 4.2.1. Frequency Range 9kHz~1000MHz (Semi-Anechoic Chamber)

| Item | Type | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum Analyzer | Agilent | N9010A-526 | MY53400071 | 2015. 09. 14 | 1 Year |
| 2. | Test Receiver | R & S | ESCS30 | 100338 | 2016. 06. 22 | 1 Year |
| 3. | Amplifier | HP | 8447D | 2944A06305 | 2016. 02. 23 | 1 Year |
| 4. | Bilog Antenna | CHASE | CBL6112D | 33821 | 2016. 01. 30 | 1 Year |
| 5. | Loop Antenna | R&S | HFH2-Z2 | 891847/27 | 2015. 12. 24 | 1 Year |
| 6. | Test Software | Audix | e3 | V.6.110601 | N.C.R. | N.C.R. |

### 4.2.2. Frequency Range Above 1GHz (Fully Anechoic Chamber)

| Item | Type | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum Analyzer | Agilent | E4446A | US44300366 | 2015. 08. 20 | 1 Year |
| 2. | Amplifier | Sonoma | 310N | 187161 | 2016. 06. 14 | 1 Year |
| 3. | 2.4GHz Notch Filter | K&L | 7NSL10-2441. 5E130.5-00 | 1 | 2015. 07. 28 | 1 Year |
| 4. | Horn Antenna | ETS-Lindgren | 3117 | 00135902 | 2016. 03. 05 | 1 Year |
| 5. | Horn Antenna | EMCO | 3116 | 2653 | 2015. 10. 20 | 1 Year |
| 6. | Test Software | Audix | e3 | V.6.110601 | N.C.R. | N.C.R. |

## 4.3. RF Conducted Measurement

| Item | Type | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum Analyzer | Agilent | N9010A-507 | MY52220264 | 2015. 08. 20 | 1 Year |
| 2. | Power Meter | Anritsu | ML2495A | 1145008 | 2015. 10. 23 | 1 Year |
| 3. | Power Sensor | Anritsu | MA2411B | 1126096 | 2015. 10. 23 | 1 Year |

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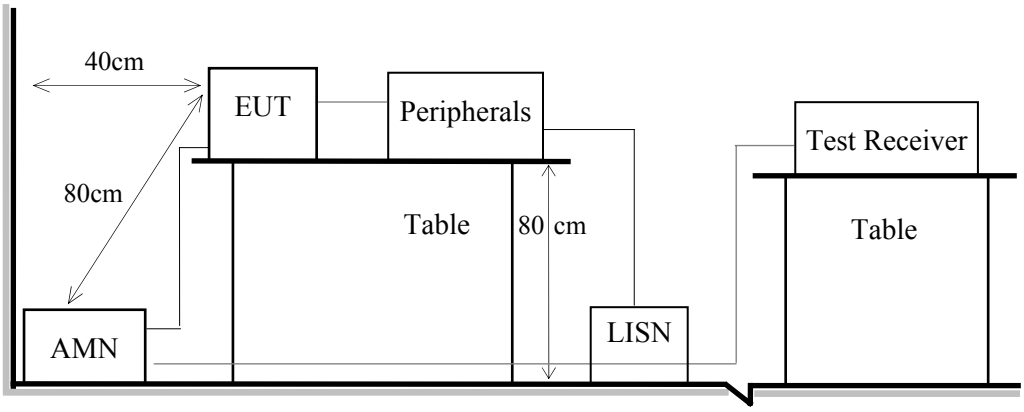
# 5. CONDUCTED EMISSION MEASUREMET

## 5.1. Block Diagram of Test Setup

Shielded Room Setup Diagram




## 5.2. Power Line Conducted Emission Limit

| Frequency | Conducted Limit | |
|---|---|---|
| | Quasi-Peak Level | Average Level |
| 150kHz ~ 500kHz | 66 ~ 56 dBμV | 56 ~ 46 dBμV |
| 500kHz ~ 5MHz | 56 dBμV | 46 dBμV |
| 5MHz ~ 30MHz | 60 dBμV | 50 dBμV |

Remark 1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.
2.: The lower limit applies to the band edges.

## 5.3. Test Procedure

5.3.1. To set up the EUT as indicated in ANSI C 63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.

5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).

5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)

5.3.4. Checking frequency range from 150 kHz to 30 MHz and record the emission which does not have 20 dB below limit.

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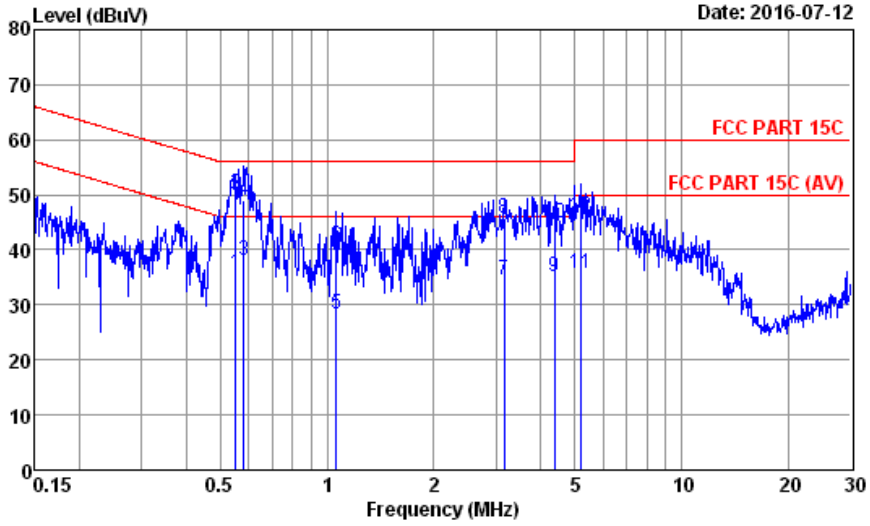
## 5.4. Conducted Emission Measurement Results

**PASSED**.

| Test Date | 2016/07/12 | Temp./Hum. | 27℃/55% |
|---|---|---|---|
| Test Voltage | AC 120V, 60Hz (Via Switch Power Supply) | | |




Site no. : No.8 Shielded Room Data no. : 3
Condition : ENV4200 100169 Phase : LINE
Limit : FCC PART 15C
Env. / Ins. : 27°C / 55% ESR3 (1774) Engineer : Jemy
EUT : DN-8A6WH01B
Power Rating : 120Vac/60Hz
Test Mode : Operating

| | Freq. (MHz) | AMN Factor (dB) | Cable Loss (dB) | Pulse Att. (dB) | Reading (dBµV) | Emission Level (dBµV) | Limits (dBµV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.552 | 10.62 | 0.04 | 9.86 | 15.20 | 35.72 | 46.00 | 10.28 | Average |
| 2 | 0.552 | 10.62 | 0.04 | 9.86 | 29.56 | 50.08 | 56.00 | 5.92 | QP |
| 3 | 0.582 | 10.62 | 0.04 | 9.86 | 17.48 | 38.00 | 46.00 | 8.00 | Average |
| 4 | 0.582 | 10.62 | 0.04 | 9.86 | 28.50 | 49.02 | 56.00 | 6.98 | QP |
| 5 | 1.060 | 10.61 | 0.05 | 9.86 | 7.96 | 28.48 | 46.00 | 17.52 | Average |
| 6 | 1.060 | 10.61 | 0.05 | 9.86 | 20.18 | 40.70 | 56.00 | 15.30 | QP |
| 7 | 3.156 | 10.67 | 0.10 | 9.87 | 13.88 | 34.52 | 46.00 | 11.48 | Average |
| 8 | 3.156 | 10.67 | 0.10 | 9.87 | 25.04 | 45.68 | 56.00 | 10.32 | QP |
| 9 | 4.384 | 10.77 | 0.12 | 9.87 | 14.46 | 35.22 | 46.00 | 10.78 | Average |
| 10 | 4.384 | 10.77 | 0.12 | 9.87 | 24.11 | 44.87 | 56.00 | 11.13 | QP |
| 11 | 5.166 | 10.87 | 0.13 | 9.87 | 14.98 | 35.85 | 50.00 | 14.15 | Average |
| 12 | 5.166 | 10.87 | 0.13 | 9.87 | 25.10 | 45.97 | 60.00 | 14.03 | QP |

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

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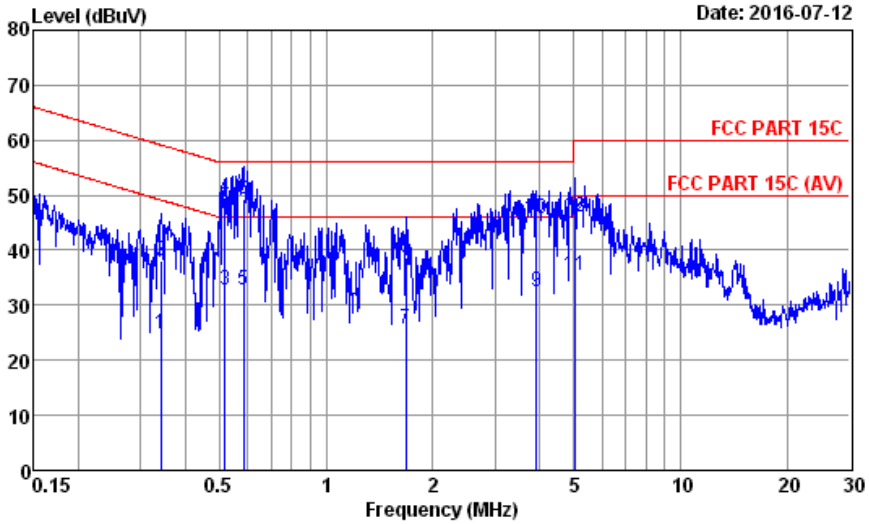
| Test Date | 2016/07/12 | Temp./Hum. | 27℃/55% |
|---|---|---|---|
| Test Voltage | AC 120V, 60Hz (Via Switch Power Supply) | | |




Site no. : No.8 Shielded Room
Data no. : 4
Condition : ENV4200 100169
Phase : NEUTRAL
Limit : FCC PART 15C
Env. / Ins. : 27°C / 55% ESR3 (1774)
Engineer : Jemy
EUT : DN-8A6WH01B
Power Rating : 120Vac/60Hz
Test Mode : Operating

| | Freq. (MHz) | AMN Factor (dB) | Cable Loss (dB) | Pulse Att. (dB) | Reading (dBµV) | Emission Level (dBµV) | Limits (dBµV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.343 | 11.10 | 0.03 | 9.86 | 3.79 | 24.78 | 49.13 | 24.35 | Average |
| 2 | 0.343 | 11.10 | 0.03 | 9.86 | 17.02 | 38.01 | 59.13 | 21.12 | QP |
| 3 | 0.518 | 11.04 | 0.03 | 9.86 | 11.93 | 32.86 | 46.00 | 13.14 | Average |
| 4 | 0.518 | 11.04 | 0.03 | 9.86 | 28.53 | 49.46 | 56.00 | 6.54 | QP |
| 5 | 0.585 | 11.04 | 0.04 | 9.86 | 11.79 | 32.73 | 46.00 | 13.27 | Average |
| 6 | 0.585 | 11.04 | 0.04 | 9.86 | 28.41 | 49.35 | 56.00 | 6.65 | QP |
| 7 | 1.680 | 11.05 | 0.07 | 9.86 | 4.68 | 25.66 | 46.00 | 20.34 | Average |
| 8 | 1.680 | 11.05 | 0.07 | 9.86 | 17.61 | 38.59 | 56.00 | 17.41 | QP |
| 9 | 3.922 | 11.20 | 0.11 | 9.87 | 11.43 | 32.61 | 46.00 | 13.39 | Average |
| 10 | 3.922 | 11.20 | 0.11 | 9.87 | 24.71 | 45.89 | 56.00 | 10.11 | QP |
| 11 | 5.058 | 11.44 | 0.13 | 9.87 | 14.00 | 35.44 | 50.00 | 14.56 | Average |
| 12 | 5.058 | 11.44 | 0.13 | 9.87 | 24.64 | 46.08 | 60.00 | 13.92 | QP |

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

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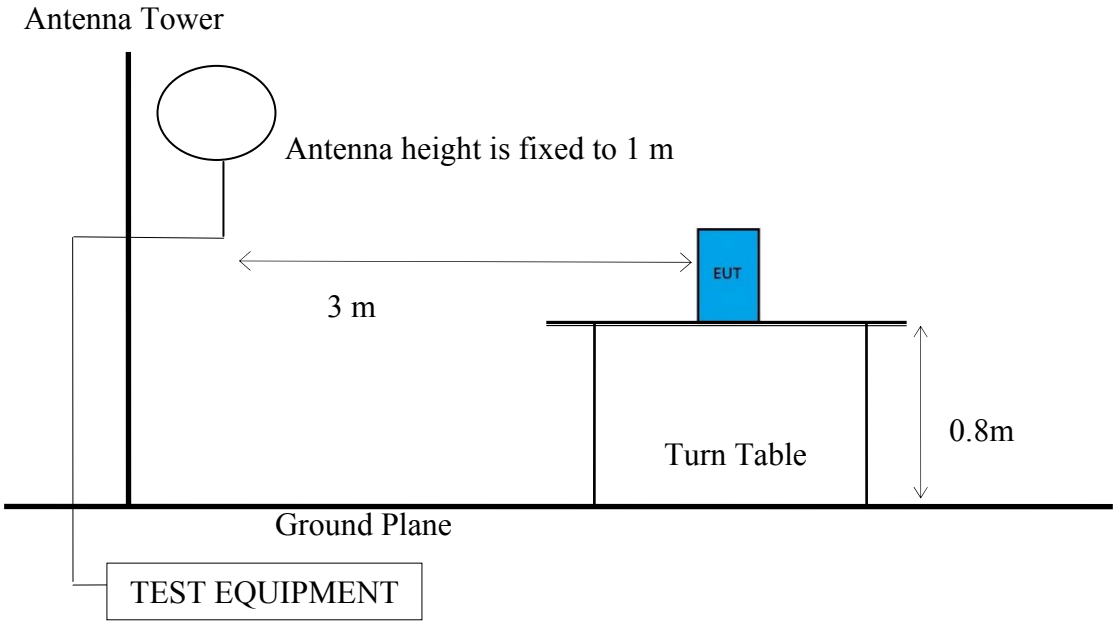
# 6. RADIATED EMISSION MEASUREMENT

## 6.1. Block Diagram of Test Setup

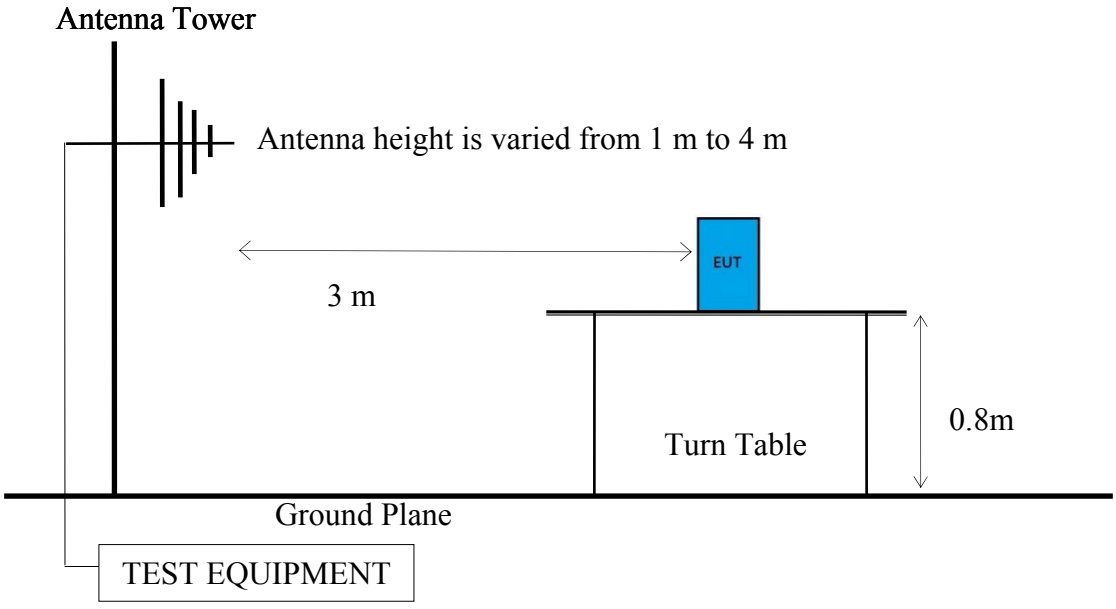
6.1.1. Block Diagram of connection between EUT and simulators

Indicated as section 3.7

6.1.2. Semi Anechoic Chamber (3m) Setup Diagram for 9kHz-30MHz




6.1.3. Semi Anechoic Chamber (3m) Setup Diagram for 30-1000 MHz



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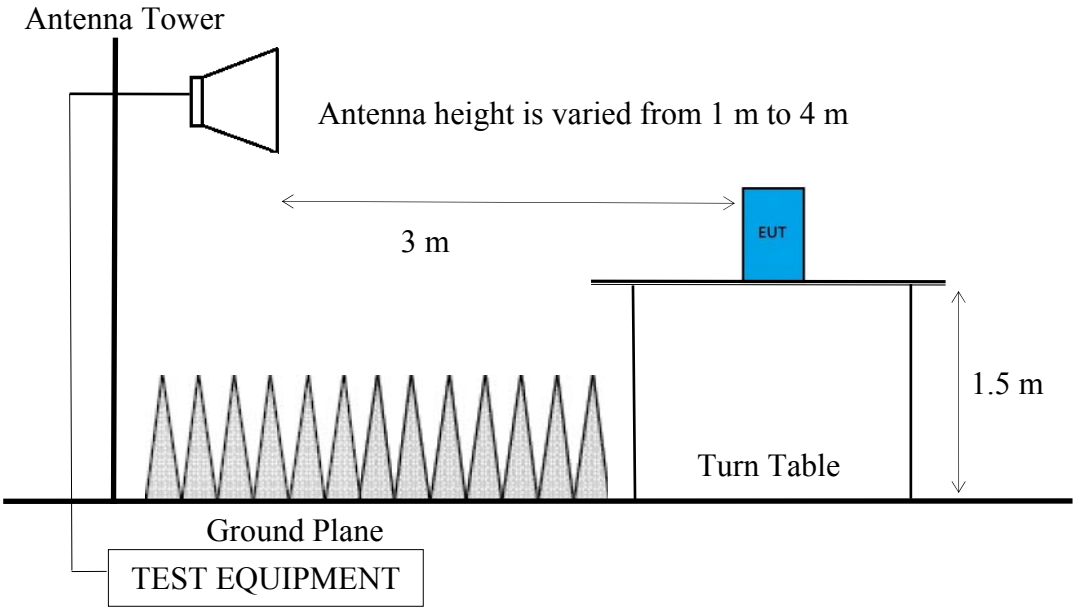
6.1.4. Fully Anechoic Chamber (3m) Setup Diagram for above 1GHz




## 6.2. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified as below.

| Frequency (MHz) | Distance (m) | Limits | |
|---|---|---|---|
| | | dBμV/m | μV/m |
| 0.009 - 0.490 | 300 | 67.6 | 2400/kHz |
| 0.490 - 1.705 | 30 | 87.6 | 24000/kHz |
| 1.705 - 30 | 30 | 29.5 | 30 |
| 30 - 88 | 3 | 40.0 | 100 |
| 88- 216 | 3 | 43.5 | 150 |
| 216- 960 | 3 | 46.0 | 200 |
| Above 960 | 3 | 54.0 | 500 |
| Above 1000 | 3 | 74.0 dBμV/m (Peak)<br>54.0 dBμV/m (Average) | |

Remark：(1) dBμV/m = 20 log (μV/m)
(2) The tighter limit applies to the edge between two frequency bands.
(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
(4) Fundamental and emission fall within operation band are exempted from this section.
(5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

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## 6.3. Test Procedure

**Frequency Range 9kHz~30MHz:**
The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

(1) RBW = 9kHz with peak and average detector.
(2) Detector: average and peak (9kHz-490kHz)
Q.P. (490kHz-30MHz)

**Frequency Range 30MHz ~ 40GHz:**
The EUT setup on the turn find table which has 80 cm (for 30-1000 MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

**Frequency below 1 GHz:**
Spectrum Analyzer is used for pre-testing with following setting:

(1) RBW = 120KHz
(2) VBW ≥ 3 x RBW.
(3) Detector = Peak.
(4) Sweep time = auto.
(5) Trace mode = max hold.
(6) Allow sweeps to continue until the trace stabilizes.
(7) When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required. Otherwise using Q.P. for finally measurement.

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**Frequency above 1GHz to 10th harmonic:**

**Peak Detector:**

(1) RBW = 1MHz
(2) VBW ≥ 3 x RBW.
(3) Detector = Peak.
(4) Sweep time = auto.
(5) Trace mode = max hold.
(6) Allow sweeps to continue until the trace stabilizes.
(7) When peak-detected value is lower than limit that the measurement using the average detector is not required. Otherwise using average for finally measurement.

**Average Detector:**

■**Option 1:**

(1) RBW = 1MHz
(2) VBW ≥ 1/ T.

| Modulation Type | T (ms) | 1/ T (kHz) | VBW Setting(kHz) |
|---|---|---|---|
| 802.11b | 8.4 | 0.119 | 0.119 |
| 802.11g | 1.4 | 0.714285 | 0.714285 |
| 802.11n-HT20 | 1.3 | 0.76923 | 0.76923 |
| 802.11n-HT40 | 0.6083 | 1.64393 | 1.64393 |

N/A: 1/ T is not implemented when duty cycle presented in section 3.5 is ≥98 %.

(1) Detector = Peak.
(2) Sweep time = auto.
(3) Trace mode = max hold.
(4) Allow sweeps to continue until the trace stabilizes.

□**Option 2:**

Average Emission Level= Peak Emission Level+ D.C.C.F.

## 6.4. Measurement Result Explanation

■Peak Emission Level=Antenna Factor + Cable Loss + Meter Reading

■Average Emission Level l=Antenna Factor + Cable Loss + Meter Reading

□Average Emission Level= Peak Emission Level+ DCCF

Duty Cycle Correction Factor (DCCF)= 20log ($TX_{on}/TX_{on+off}$) presented in section 3.5

□EPR= Peak Emission Level-95.2dB-2.14dB

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## 6.5. Test Results

**PASSED.**

| | | | |
|---|---|---|---|
| Test Date | 2016/07/12 | Temp./Hum. | 26℃/42% |
| | 2016/08/29 | | 25℃/40% |
| | 2016/09/12 | | 25℃/40% |
| Test Voltage | AC 120V, 60Hz (Via Switch Power Supply) | | |

6.5.1. Emissions within Restricted Frequency Bands

6.5.1.1. Frequency 9kHz~30MHz

**The emissions (9kHz~30MHz) not reported for there is no emission be found.**

6.5.1.2. Frequency Below 1 GHz

| Mode | 802.11b | Frequency | TX 2437MHz |
|---|---|---|---|

**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 167.74 | 9.58 | 3.74 | 28.38 | 41.70 | 43.50 | 1.80 | Peak |
| 263.77 | 12.61 | 4.43 | 27.55 | 44.59 | 46.00 | 1.41 | Peak |
| 971.87 | 20.95 | 7.96 | 11.69 | 40.60 | 54.00 | 13.40 | Peak |

**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 56.19 | 7.02 | 2.69 | 28.37 | 38.08 | 43.50 | 5.42 | Peak |
| 95.96 | 10.23 | 3.19 | 26.15 | 39.57 | 46.00 | 6.43 | Peak |
| 433.52 | 16.07 | 5.94 | 15.67 | 37.68 | 46.00 | 8.32 | Peak |

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| Mode | 802.11g | Frequency | TX 2437MHz |
|---|---|---|---|

**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 107.60 | 11.47 | 3.28 | 25.52 | 40.27 | 43.50 | 3.23 | Peak |
| 227.88 | 11.08 | 4.18 | 28.61 | 43.87 | 46.00 | 2.13 | Peak |
| 359.80 | 14.64 | 5.28 | 23.55 | 43.47 | 46.00 | 2.53 | Peak |

**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 30.97 | 18.07 | 2.34 | 16.96 | 37.37 | 40.00 | 2.63 | Peak |
| 95.96 | 10.23 | 3.19 | 27.45 | 40.87 | 43.50 | 2.63 | Peak |
| 579.99 | 18.08 | 6.49 | 14.93 | 39.50 | 46.00 | 6.50 | Peak |

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| Mode | 802.11n-HT20 | Frequency | TX 2437MHz |
|---|---|---|---|

**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 95.96 | 10.23 | 3.19 | 28.83 | 42.25 | 43.50 | 1.25 | Peak |
| 239.52 | 11.76 | 4.26 | 28.21 | 44.23 | 46.00 | 1.77 | Peak |
| 947.62 | 20.83 | 7.82 | 11.23 | 39.88 | 46.00 | 6.12 | Peak |

**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 56.19 | 7.02 | 2.69 | 28.16 | 37.87 | 40.00 | 2.13 | Peak |
| 167.74 | 9.58 | 3.74 | 23.24 | 36.56 | 43.50 | 6.94 | Peak |
| 579.99 | 18.08 | 6.49 | 14.51 | 39.08 | 46.00 | 6.92 | Peak |

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| Mode | 802.11n-HT40 | Frequency | TX 2437MHz |
|---|---|---|---|

**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 95.96 | 10.23 | 3.19 | 27.95 | 41.37 | 43.50 | 2.13 | Peak |
| 239.52 | 11.76 | 4.26 | 28.14 | 44.16 | 46.00 | 1.84 | Peak |
| 359.80 | 14.64 | 5.28 | 24.38 | 44.30 | 46.00 | 1.70 | Peak |

**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 60.07 | 6.25 | 2.72 | 28.44 | 37.41 | 40.00 | 2.59 | Peak |
| 95.96 | 10.23 | 3.19 | 25.15 | 38.57 | 43.50 | 4.93 | Peak |
| 399.57 | 15.53 | 5.65 | 15.11 | 36.29 | 46.00 | 9.71 | Peak |

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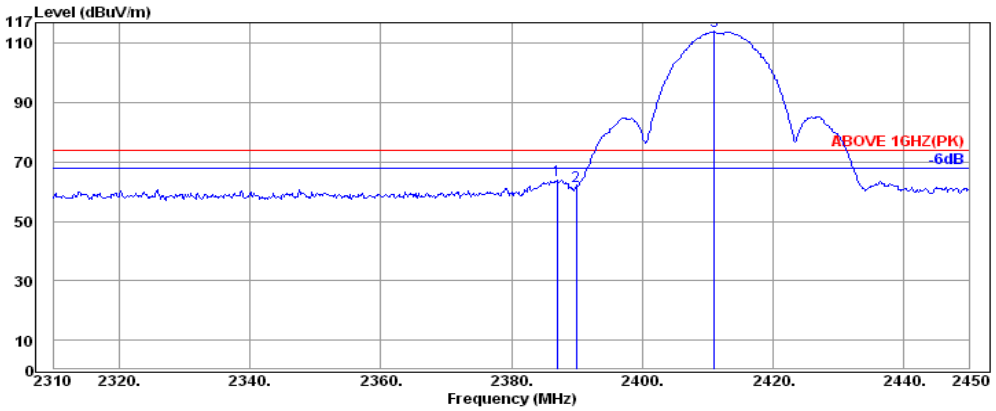
6.5.2. Frequency Above 1 GHz to 10th harmonics

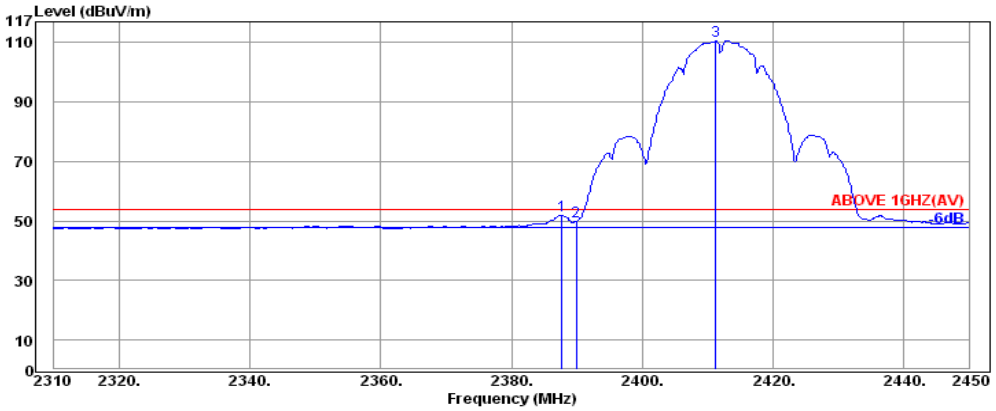
**Band Edge:**

| Mode | 802.11b | Frequency | TX 2412MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2387.00 | 32.16 | 6.07 | 25.71 | 63.94 | 74.00 | 10.06 | Peak |
| 2389.94 | 32.16 | 6.08 | 23.51 | 61.75 | 74.00 | 12.25 | Peak |
| 2411.08 | 32.18 | 6.11 | 75.76 | 114.05 | --- | --- | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2387.70 | 32.16 | 6.08 | 13.51 | 51.75 | 54.00 | 2.25 | Average |
| 2389.94 | 32.16 | 6.08 | 11.57 | 49.81 | 54.00 | 4.19 | Average |
| 2411.22 | 32.18 | 6.11 | 72.22 | 110.51 | --- | --- | Average |

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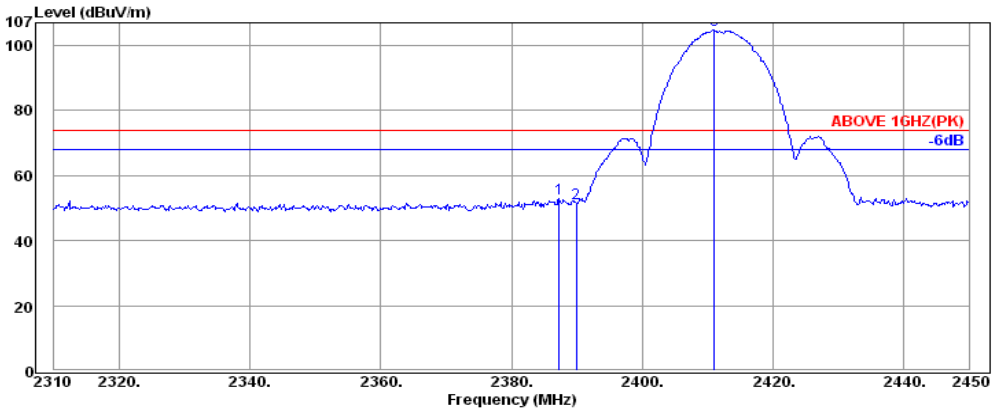
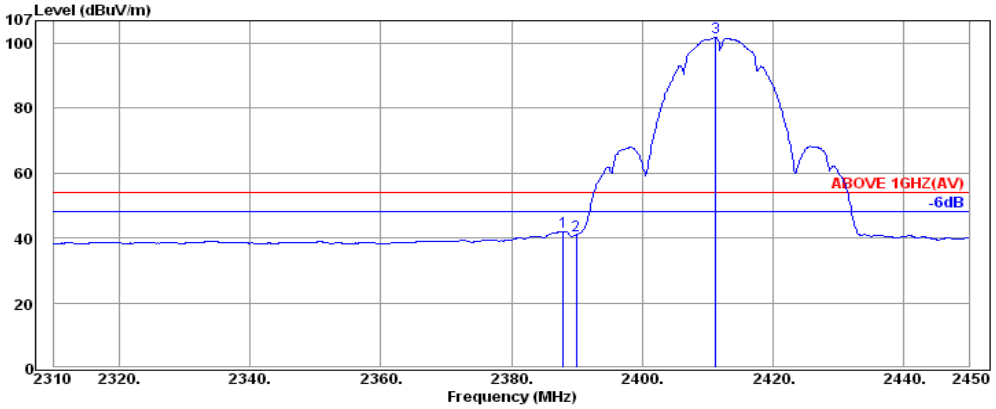
| Mode | 802.11b | Frequency | TX 2412MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | imits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2387.28 | 32.16 | 6.08 | 14.87 | 53.11 | 74.00 | 20.89 | Peak |
| 2389.94 | 32.16 | 6.08 | 13.24 | 51.48 | 74.00 | 22.52 | Peak |
| 2411.08 | 32.18 | 6.11 | 66.41 | 104.70 | --- | --- | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2387.98 | 32.16 | 6.08 | 3.85 | 42.09 | 54.00 | 11.91 | Average |
| 2389.94 | 32.16 | 6.08 | 2.74 | 40.98 | 54.00 | 13.02 | Average |
| 2411.22 | 32.18 | 6.11 | 63.67 | 101.96 | --- | --- | Average |

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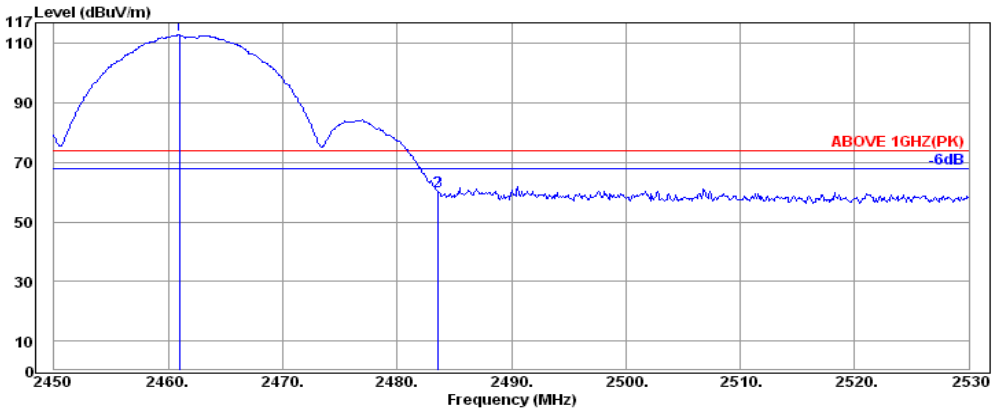
| Mode | 802.11b | Frequency | TX 2462MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2460.96 | 32.25 | 6.16 | 74.42 | 112.83 | --- | --- | Peak |
| 2483.52 | 32.28 | 6.19 | 22.04 | 60.51 | 74.00 | 13.49 | Peak |
| 2483.60 | 32.28 | 6.19 | 21.75 | 60.22 | 74.00 | 13.78 | Peak |


**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2461.20 | 32.25 | 6.16 | 71.81 | 110.22 | --- | --- | Average |
| 2483.52 | 32.28 | 6.19 | 13.34 | 51.81 | 54.00 | 2.19 | Average |
| 2483.60 | 32.28 | 6.19 | 13.01 | 51.48 | 54.00 | 2.52 | Average |

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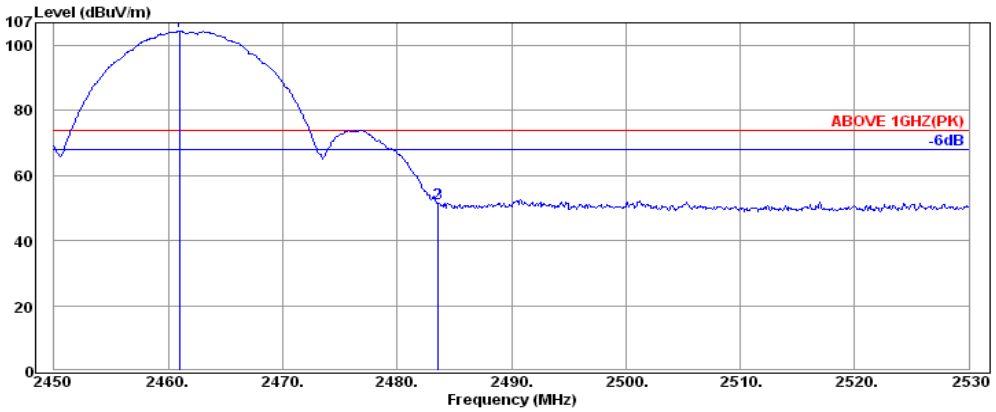
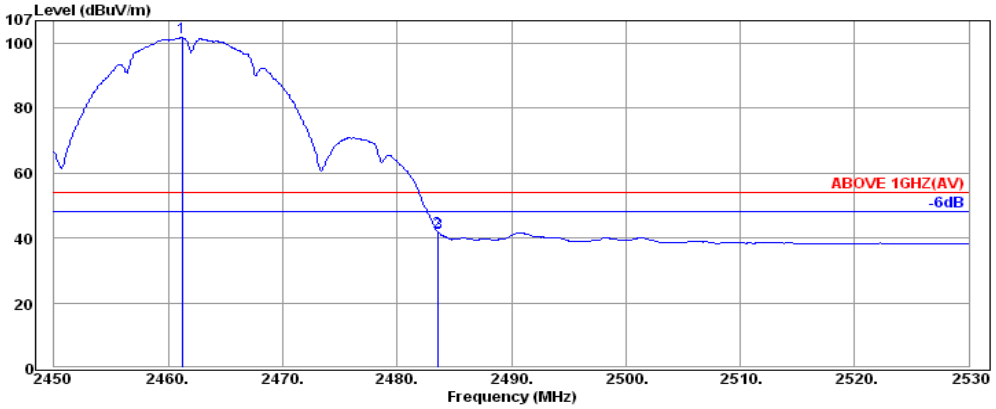
| Mode | 802.11b | Frequency | TX 2462MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2460.96 | 32.25 | 6.16 | 66.04 | 104.45 | --- | --- | Peak |
| 2483.52 | 32.28 | 6.19 | 13.08 | 51.55 | 74.00 | 22.45 | Peak |
| 2483.60 | 32.28 | 6.19 | 13.07 | 51.54 | 74.00 | 22.46 | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2461.20 | 32.25 | 6.16 | 63.40 | 101.81 | --- | --- | Average |
| 2483.52 | 32.28 | 6.19 | 3.55 | 42.02 | 54.00 | 11.98 | Average |
| 2483.60 | 32.28 | 6.19 | 3.19 | 41.66 | 54.00 | 12.34 | Average |

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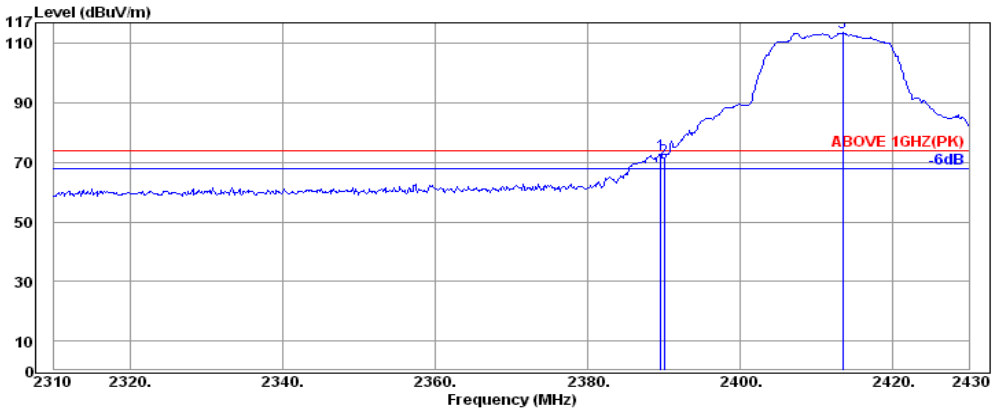
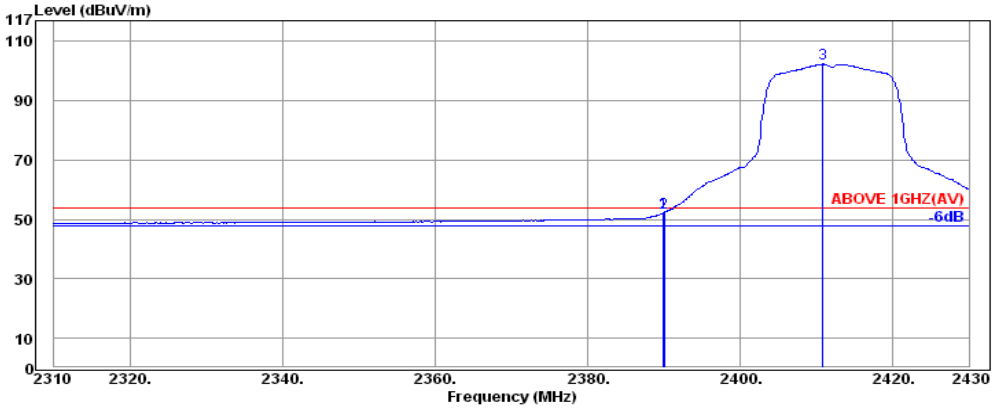
| Mode | 802.11g | Frequency | TX 2412MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.56 | 32.16 | 6.08 | 34.69 | 72.93 | 74.00 | 1.07 | Peak |
| 2390.04 | 32.16 | 6.08 | 32.97 | 71.21 | 74.00 | 2.79 | Peak |
| 2413.44 | 32.18 | 6.11 | 75.48 | 113.77 | --- | --- | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.92 | 32.16 | 6.08 | 14.01 | 52.25 | 54.00 | 1.75 | Average |
| 2390.04 | 32.16 | 6.08 | 14.22 | 52.46 | 54.00 | 1.54 | Average |
| 2410.80 | 32.18 | 6.11 | 64.06 | 102.35 | --- | --- | Average |

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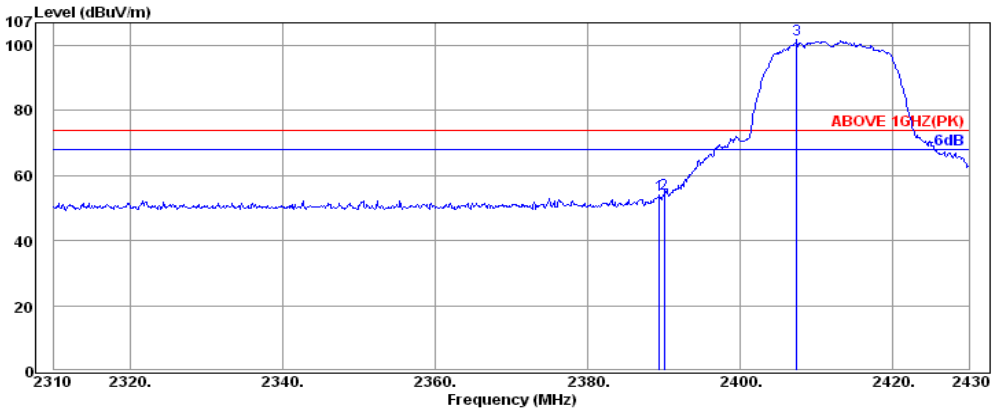
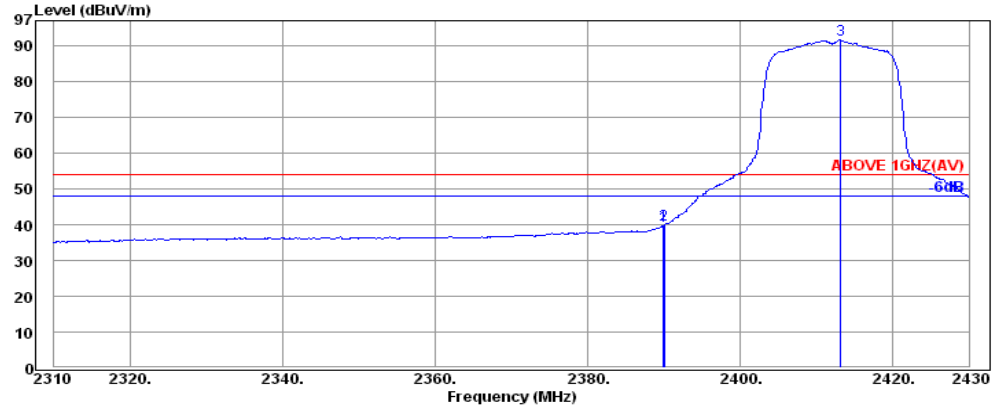
| Mode | 802.11g | Frequency | TX 2412MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.44 | 32.16 | 6.08 | 15.86 | 54.10 | 74.00 | 19.90 | Peak |
| 2390.04 | 32.16 | 6.08 | 16.20 | 54.44 | 74.00 | 19.56 | Peak |
| 2407.44 | 32.18 | 6.10 | 63.62 | 101.90 | --- | --- | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.92 | 32.16 | 6.08 | 1.54 | 39.78 | 54.00 | 14.22 | Average |
| 2390.04 | 32.16 | 6.08 | 1.69 | 39.93 | 54.00 | 14.07 | Average |
| 2413.20 | 32.18 | 6.11 | 53.24 | 91.53 | --- | --- | Average |

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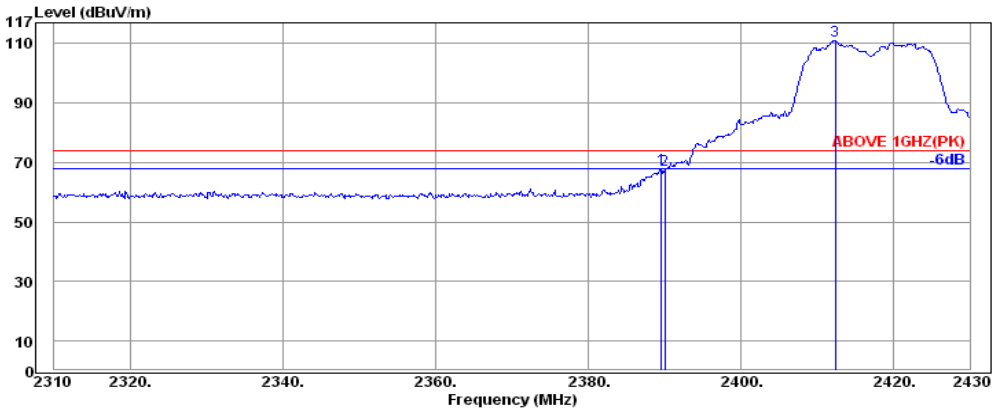
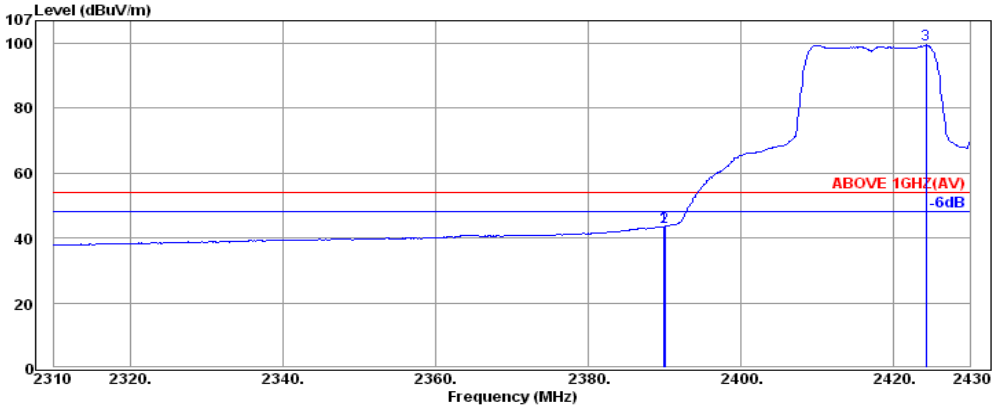
| Mode | 802.11g | Frequency | TX 2417MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.56 | 32.16 | 6.08 | 29.64 | 67.88 | 74.00 | 6.12 | Peak |
| 2390.04 | 32.16 | 6.08 | 29.11 | 67.35 | 74.00 | 6.65 | Peak |
| 2412.36 | 32.18 | 6.11 | 72.80 | 111.09 | --- | --- | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.92 | 32.16 | 6.08 | 5.24 | 43.48 | 54.00 | 10.52 | Average |
| 2390.04 | 32.16 | 6.08 | 5.32 | 43.56 | 54.00 | 10.44 | Average |
| 2424.24 | 32.20 | 6.12 | 61.15 | 99.47 | --- | --- | Average |

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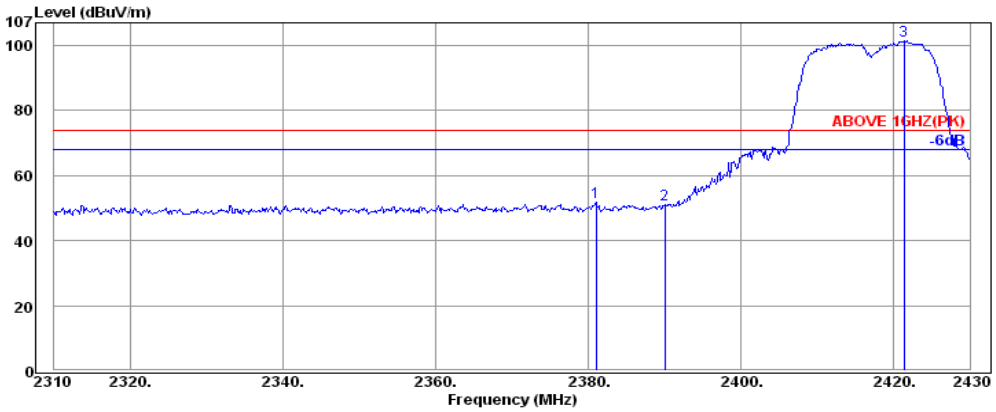
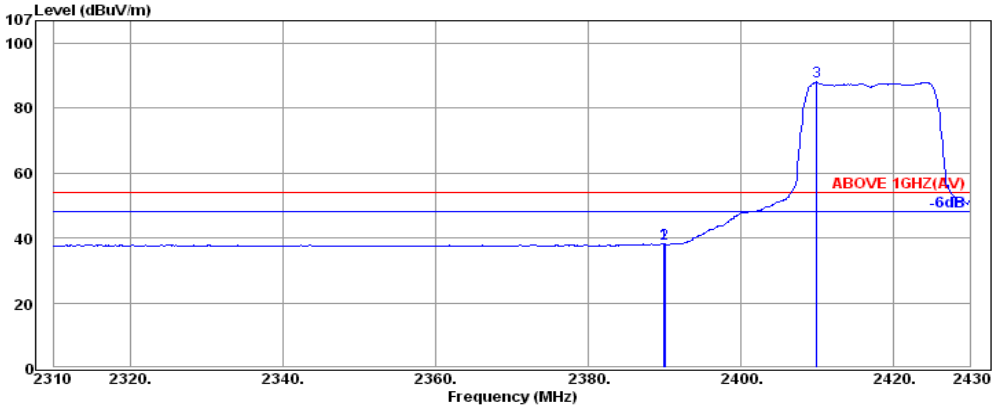
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2381.04 | 32.13 | 6.07 | 13.48 | 51.68 | 74.00 | 22.32 | Peak |
| 2390.04 | 32.16 | 6.08 | 12.83 | 51.07 | 74.00 | 22.93 | Peak |
| 2421.36 | 32.20 | 6.12 | 63.21 | 101.53 | --- | --- | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.92 | 32.16 | 6.08 | -0.02 | 38.22 | 54.00 | 15.78 | Average |
| 2390.04 | 32.16 | 6.08 | -0.04 | 38.20 | 54.00 | 15.80 | Average |
| 2409.96 | 32.18 | 6.10 | 49.81 | 88.09 | --- | --- | Average |

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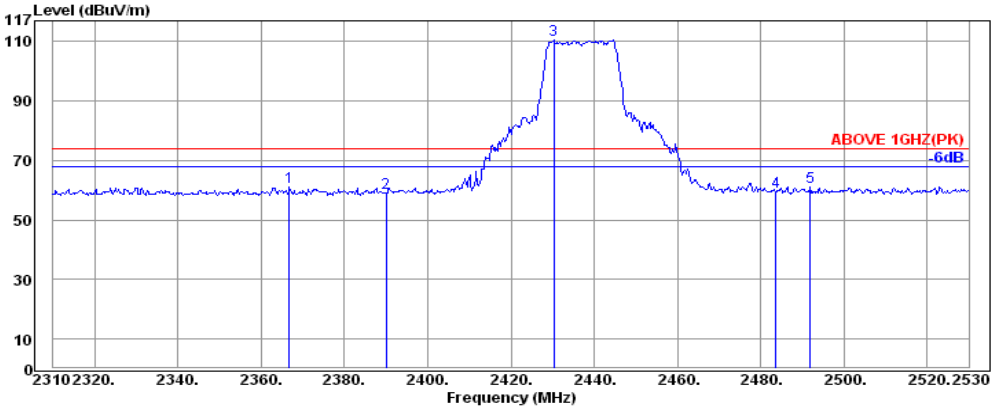
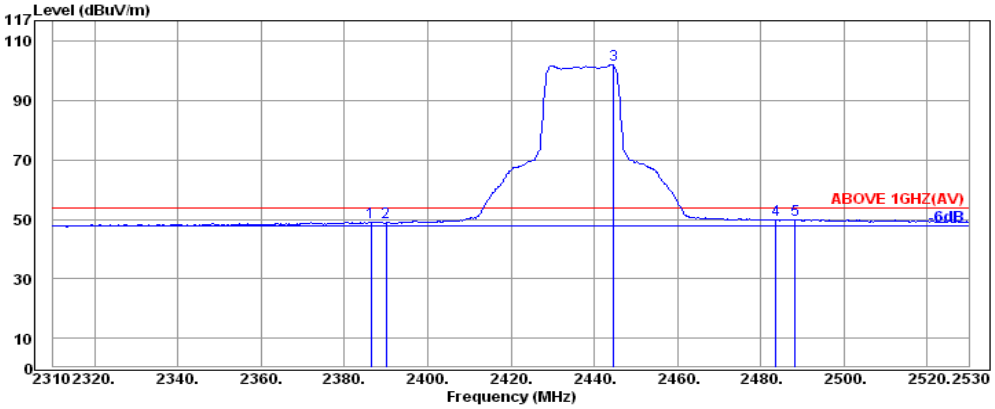
| Mode | 802.11g | Frequency | TX 2437MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2366.76 | 32.11 | 6.05 | 22.92 | 61.08 | 74.00 | 12.92 | Peak |
| 2390.08 | 32.16 | 6.08 | 20.88 | 59.12 | 74.00 | 14.88 | Peak |
| 2430.34 | 32.20 | 6.13 | 72.21 | 110.54 | --- | --- | Peak |
| 2483.58 | 32.28 | 6.19 | 21.21 | 59.68 | 74.00 | 14.32 | Peak |
| 2491.94 | 32.30 | 6.20 | 22.63 | 61.13 | 74.00 | 12.87 | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2386.34 | 32.16 | 6.07 | 10.86 | 49.09 | 54.00 | 4.91 | Average |
| 2390.08 | 32.16 | 6.08 | 10.64 | 48.88 | 54.00 | 5.12 | Average |
| 2444.64 | 32.23 | 6.14 | 63.91 | 102.28 | --- | --- | Average |
| 2483.58 | 32.28 | 6.19 | 11.35 | 49.82 | 54.00 | 4.18 | Average |
| 2488.20 | 32.30 | 6.19 | 11.55 | 50.04 | 54.00 | 3.96 | Average |

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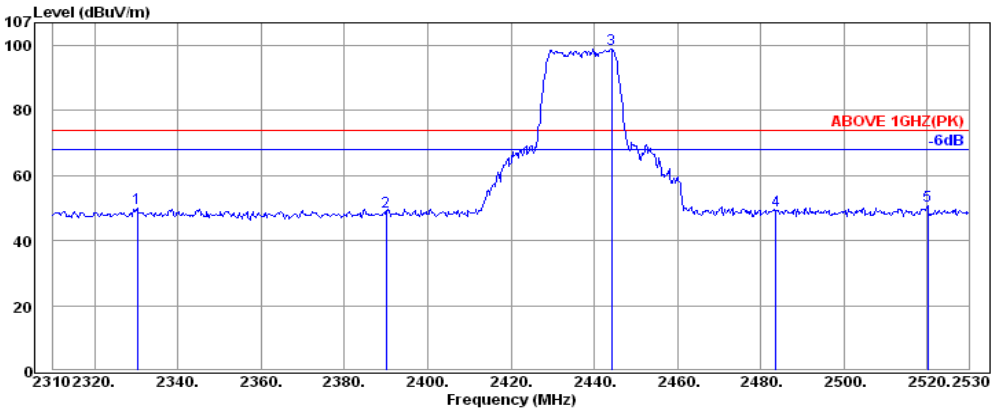
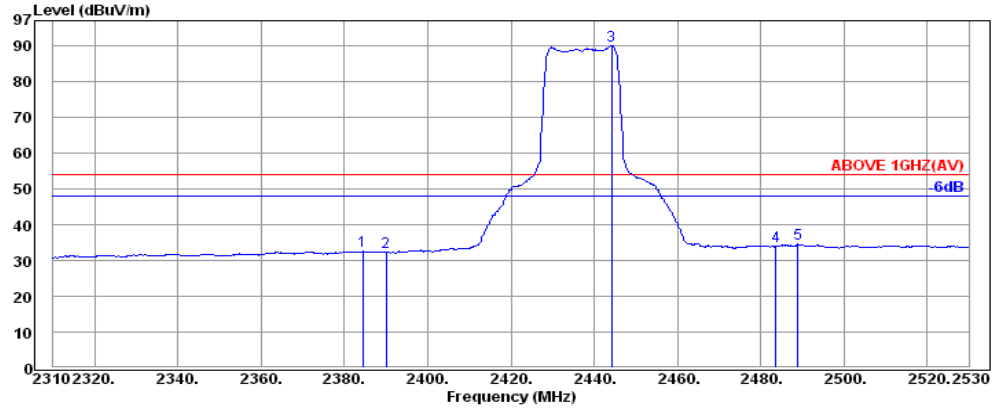
| Mode | 802.11g | Frequency | TX 2437MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2330.24 | 32.06 | 6.00 | 11.87 | 49.93 | 74.00 | 24.07 | Peak |
| 2390.08 | 32.16 | 6.08 | 10.74 | 48.98 | 74.00 | 25.02 | Peak |
| 2444.20 | 32.23 | 6.14 | 60.70 | 99.07 | --- | --- | Peak |
| 2483.58 | 32.28 | 6.19 | 10.95 | 49.42 | 74.00 | 24.58 | Peak |
| 2520.10 | 32.32 | 6.23 | 12.17 | 50.72 | 74.00 | 23.28 | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2384.36 | 32.13 | 6.07 | -5.69 | 32.51 | 54.00 | 21.49 | Average |
| 2390.08 | 32.16 | 6.08 | -5.95 | 32.29 | 54.00 | 21.71 | Average |
| 2444.20 | 32.23 | 6.14 | 51.61 | 89.98 | --- | --- | Average |
| 2483.58 | 32.28 | 6.19 | -4.42 | 34.05 | 54.00 | 19.95 | Average |
| 2488.86 | 32.30 | 6.19 | -3.98 | 34.51 | 54.00 | 19.49 | Average |

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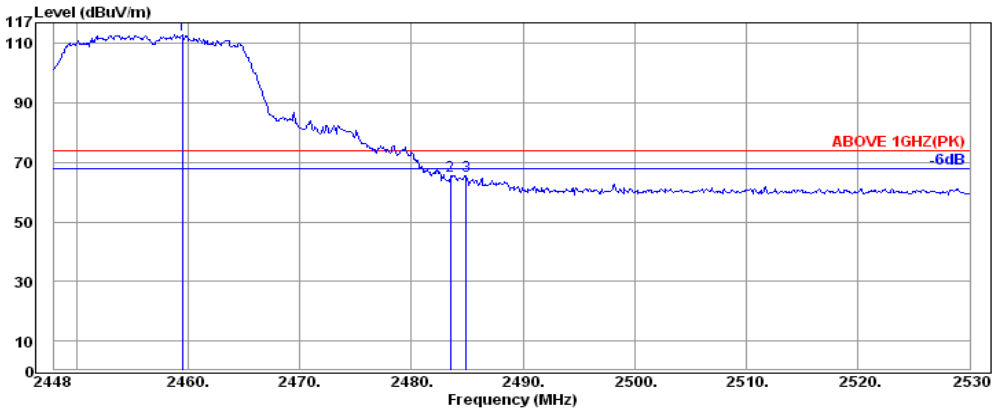
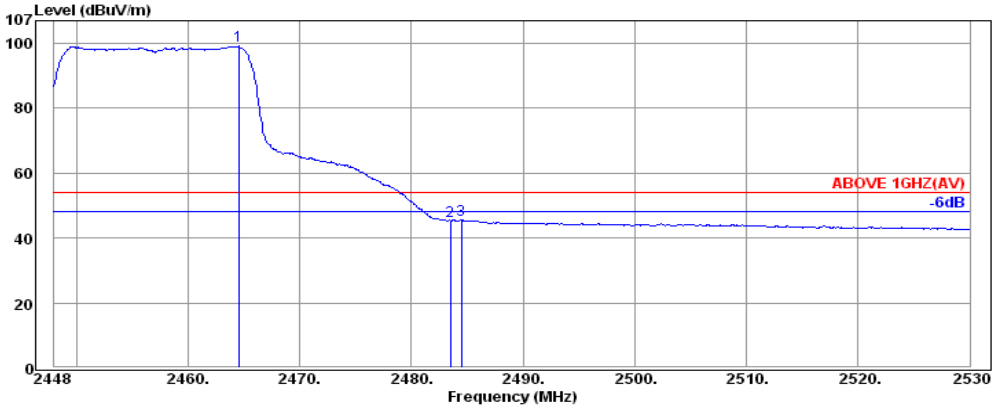
| Mode | 802.11g | Frequency | TX 2457MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2459.48 | 32.25 | 6.16 | 74.57 | 112.98 | --- | --- | Peak |
| 2483.51 | 32.28 | 6.19 | 27.05 | 65.52 | 74.00 | 8.48 | Peak |
| 2484.90 | 32.28 | 6.19 | 27.17 | 65.64 | 74.00 | 8.36 | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2464.56 | 32.25 | 6.16 | 60.69 | 99.10 | --- | --- | Average |
| 2483.51 | 32.28 | 6.19 | 6.87 | 45.34 | 54.00 | 8.66 | Average |
| 2484.49 | 32.28 | 6.19 | 7.09 | 45.56 | 54.00 | 8.44 | Average |

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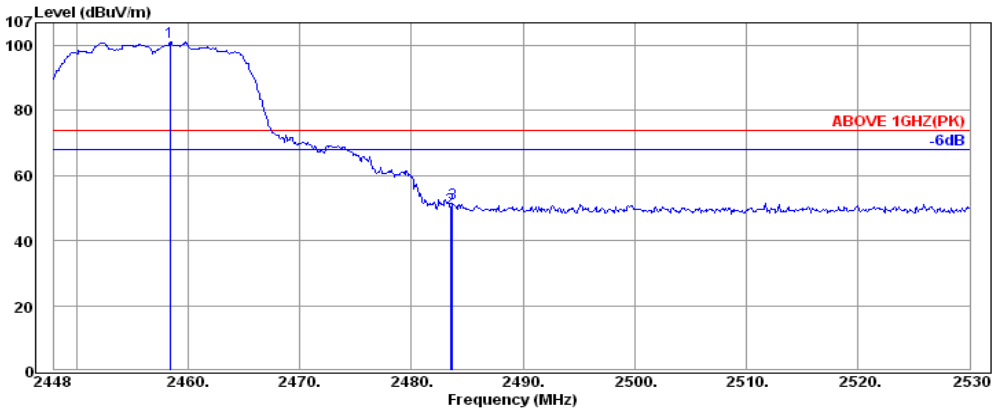
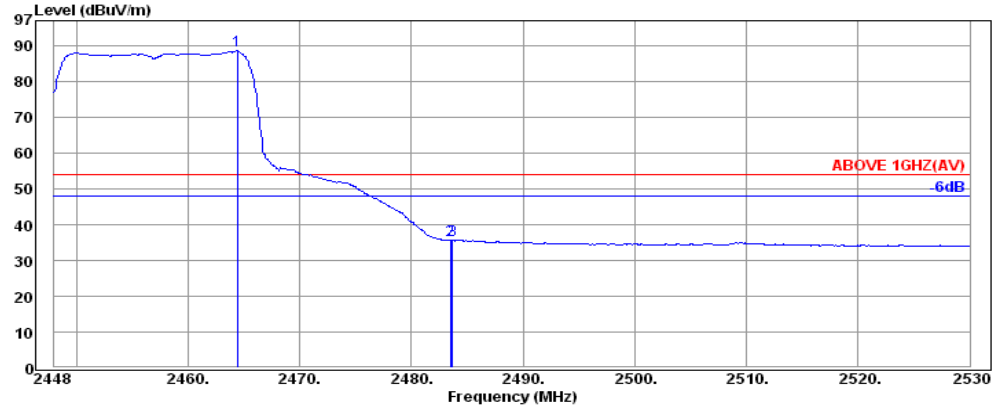
| Mode | 802.11g | Frequency | TX 2457MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2458.41 | 32.25 | 6.15 | 62.82 | 101.22 | --- | --- | Peak |
| 2483.51 | 32.28 | 6.19 | 11.71 | 50.18 | 74.00 | 23.82 | Peak |
| 2483.67 | 32.28 | 6.19 | 13.11 | 51.58 | 74.00 | 22.42 | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2464.40 | 32.25 | 6.16 | 50.14 | 88.55 | --- | --- | Average |
| 2483.51 | 32.28 | 6.19 | -2.83 | 35.64 | 54.00 | 18.36 | Average |
| 2483.67 | 32.28 | 6.19 | -2.75 | 35.72 | 54.00 | 18.28 | Average |

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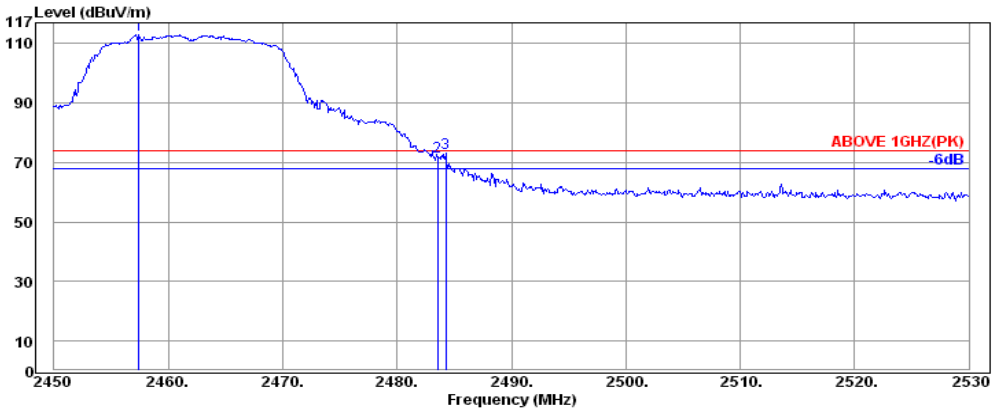
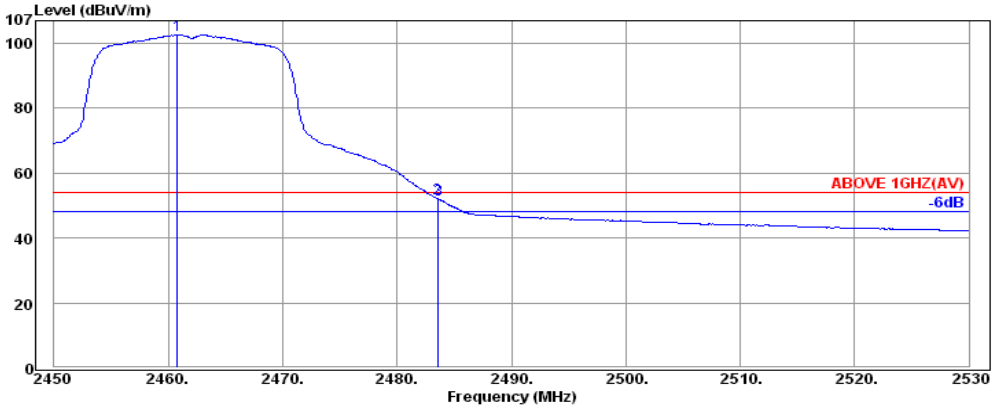
| Mode | 802.11g | Frequency | TX 2462MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2457.44 | 32.25 | 6.15 | 74.57 | 112.97 | --- | --- | Peak |
| 2483.52 | 32.28 | 6.19 | 33.39 | 71.86 | 74.00 | 2.14 | Peak |
| 2484.24 | 32.28 | 6.19 | 34.82 | 73.29 | 74.00 | 0.71 | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2460.80 | 32.25 | 6.16 | 64.25 | 102.66 | --- | --- | Average |
| 2483.52 | 32.28 | 6.19 | 13.60 | 52.07 | 54.00 | 1.93 | Average |
| 2483.60 | 32.28 | 6.19 | 13.41 | 51.88 | 54.00 | 2.12 | Average |

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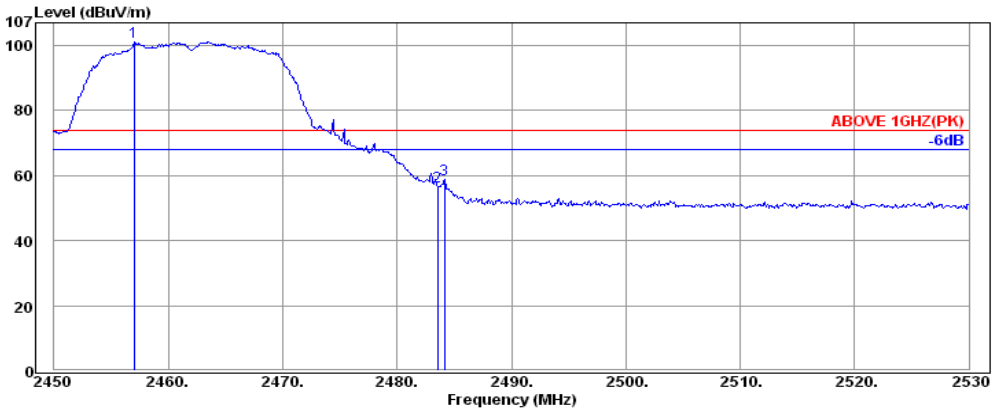
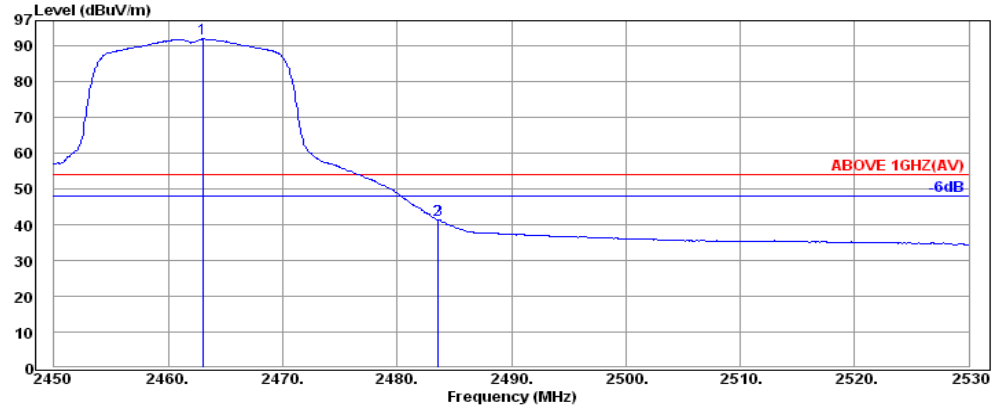
| Mode | 802.11g | Frequency | TX 2462MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2457.04 | 32.25 | 6.15 | 62.63 | 101.03 | --- | --- | Peak |
| 2483.52 | 32.28 | 6.19 | 18.28 | 56.75 | 74.00 | 17.25 | Peak |
| 2484.16 | 32.28 | 6.19 | 20.27 | 58.74 | 74.00 | 15.26 | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2463.04 | 32.25 | 6.16 | 53.54 | 91.95 | --- | --- | Average |
| 2483.52 | 32.28 | 6.19 | 2.91 | 41.38 | 54.00 | 12.62 | Average |
| 2483.60 | 32.28 | 6.19 | 2.81 | 41.28 | 54.00 | 12.72 | Average |

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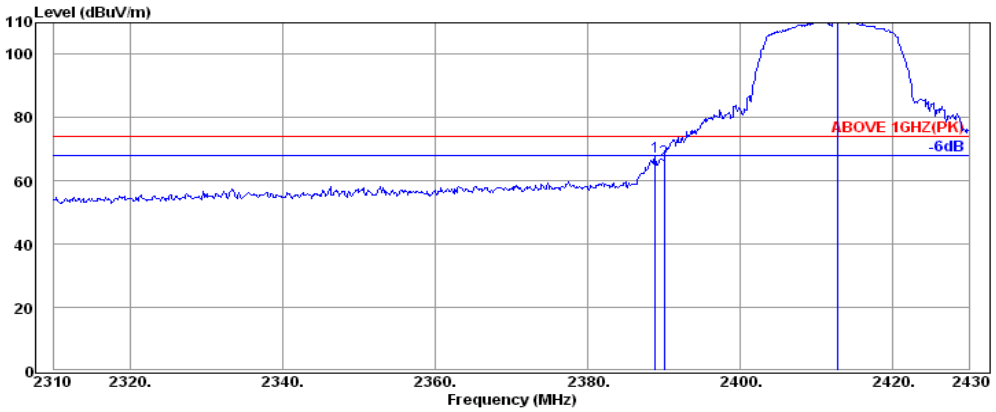
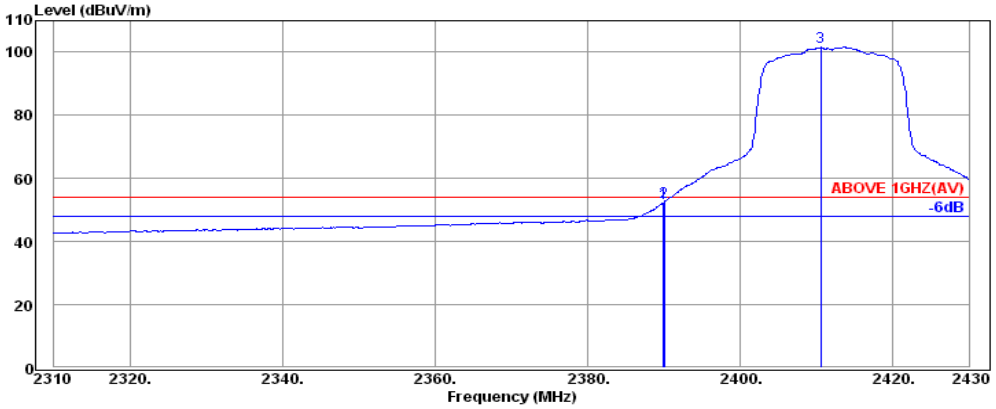
| Mode | 802.11n-HT20 | Frequency | TX 2412MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2388.84 | 32.16 | 6.08 | 29.44 | 67.68 | 74.00 | 6.32 | Peak |
| 2390.04 | 32.16 | 6.08 | 28.15 | 66.39 | 74.00 | 7.61 | Peak |
| 2412.84 | 32.18 | 6.11 | 72.53 | 110.82 | --- | --- | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.92 | 32.16 | 6.08 | 14.00 | 52.24 | 54.00 | 1.76 | Average |
| 2390.04 | 32.16 | 6.08 | 14.20 | 52.44 | 54.00 | 1.56 | Average |
| 2410.56 | 32.18 | 6.10 | 63.28 | 101.56 | --- | --- | Average |

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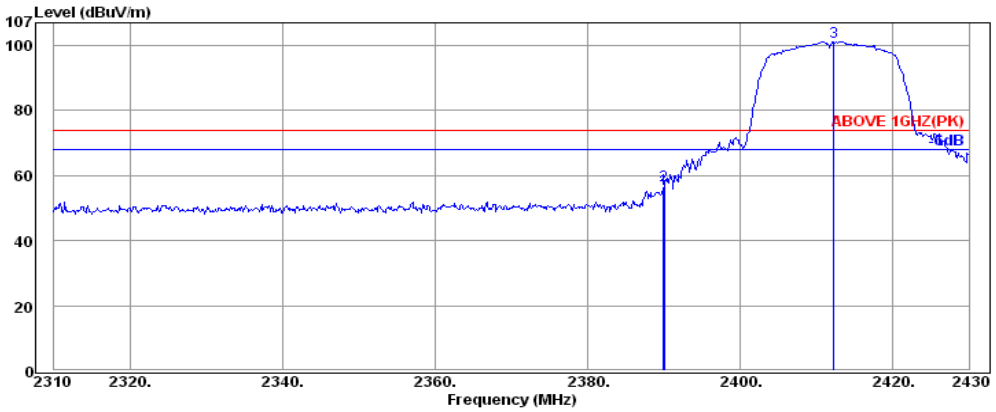
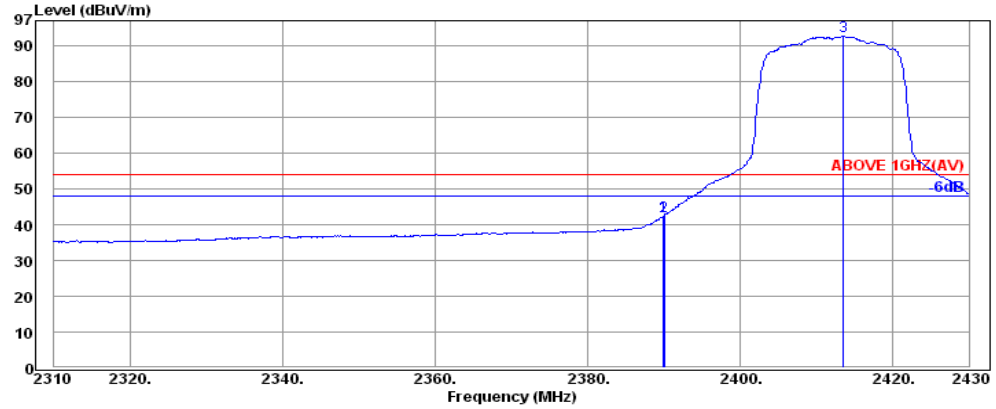
| Mode | 802.11n-HT20 | Frequency | TX 2412MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.92 | 32.16 | 6.08 | 17.63 | 55.87 | 74.00 | 18.13 | Peak |
| 2390.04 | 32.16 | 6.08 | 18.66 | 56.90 | 74.00 | 17.10 | Peak |
| 2412.24 | 32.18 | 6.11 | 62.98 | 101.27 | --- | --- | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.92 | 32.16 | 6.08 | 4.07 | 42.31 | 54.00 | 11.69 | Average |
| 2390.04 | 32.16 | 6.08 | 4.25 | 42.49 | 54.00 | 11.51 | Average |
| 2413.56 | 32.18 | 6.11 | 54.41 | 92.70 | --- | --- | Average |

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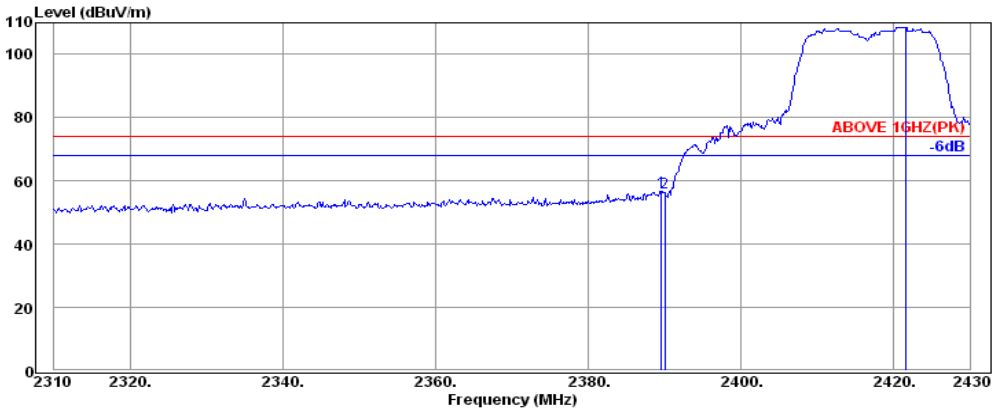
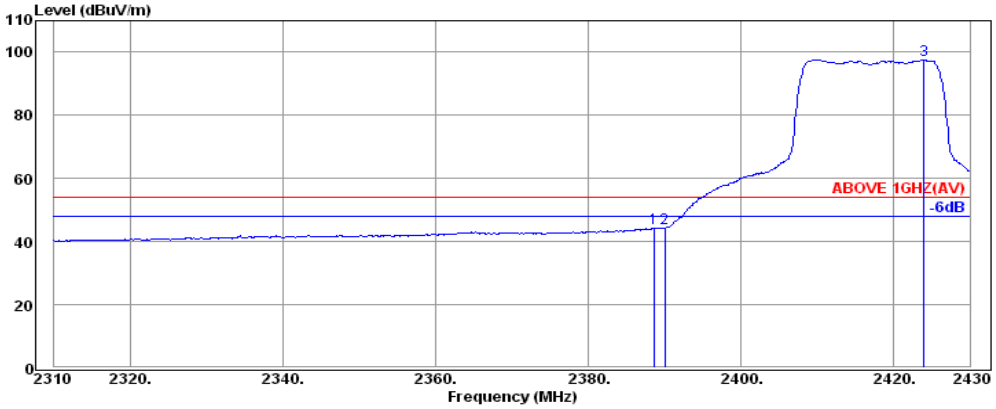
| Mode | 802.11n-HT20 | Frequency | TX 2417MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.56 | 32.16 | 6.08 | 18.41 | 56.65 | 74.00 | 17.35 | Peak |
| 2390.04 | 32.16 | 6.08 | 17.92 | 56.16 | 74.00 | 17.84 | Peak |
| 2421.60 | 32.20 | 6.12 | 70.32 | 108.64 | --- | --- | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2388.60 | 32.16 | 6.08 | 6.04 | 44.28 | 54.00 | 9.72 | Average |
| 2390.04 | 32.16 | 6.08 | 6.10 | 44.34 | 54.00 | 9.66 | Average |
| 2424.00 | 32.20 | 6.12 | 59.32 | 97.64 | --- | --- | Average |

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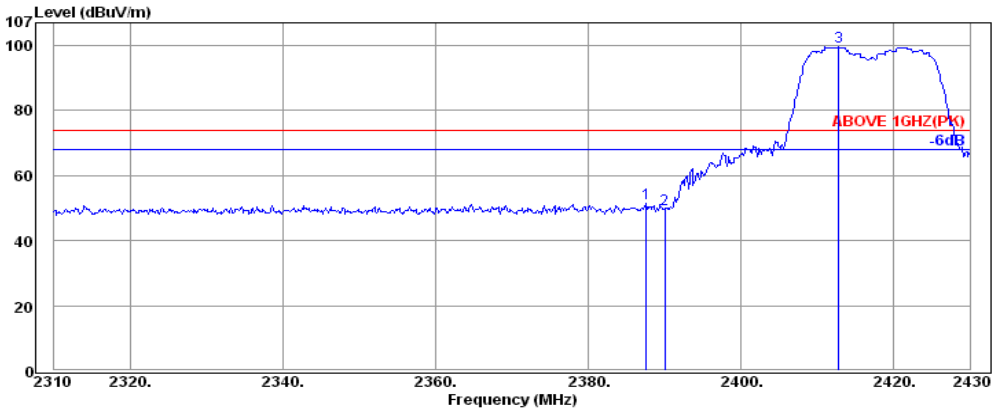
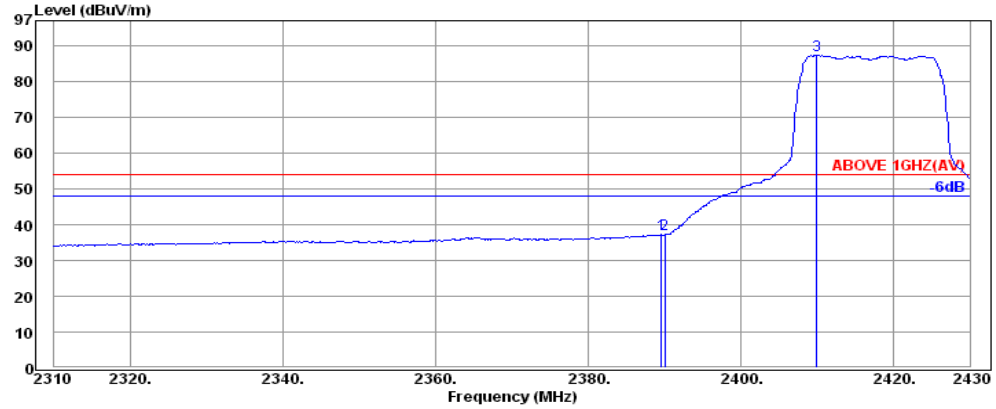
| Mode | 802.11n-HT20 | Frequency | TX 2417MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2387.64 | 32.16 | 6.08 | 13.26 | 51.50 | 74.00 | 22.50 | Peak |
| 2390.04 | 32.16 | 6.08 | 11.23 | 49.47 | 74.00 | 24.53 | Peak |
| 2412.84 | 32.18 | 6.11 | 61.35 | 99.64 | --- | --- | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.56 | 32.16 | 6.08 | -0.99 | 37.25 | 54.00 | 16.75 | Average |
| 2390.04 | 32.16 | 6.08 | -1.07 | 37.17 | 54.00 | 16.83 | Average |
| 2409.96 | 32.18 | 6.10 | 49.21 | 87.49 | --- | --- | Average |

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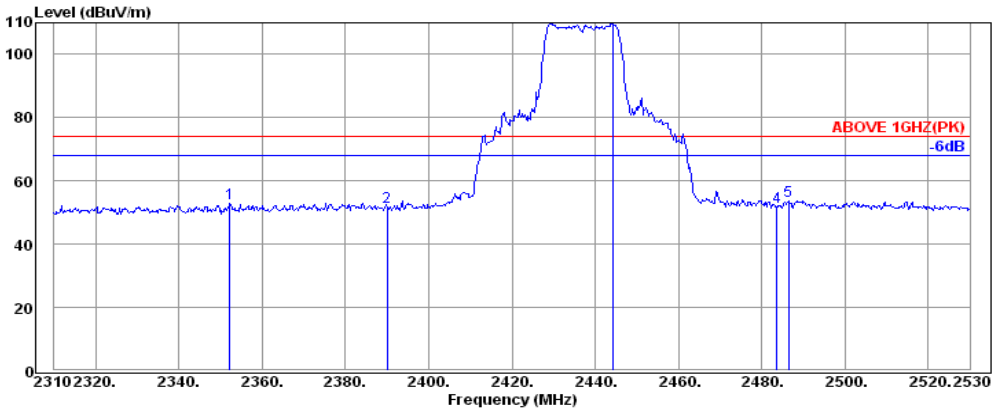
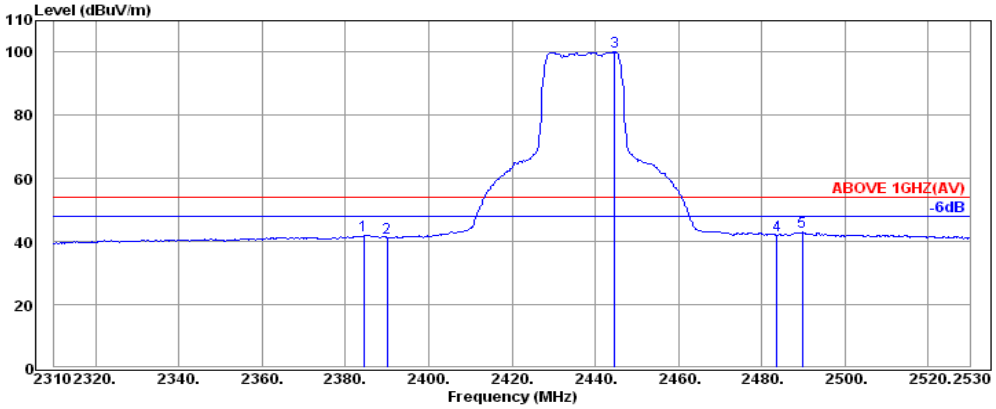
| Mode | 802.11n-HT20 | Frequency | TX 2437MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2352.24 | 32.11 | 6.03 | 14.92 | 53.06 | 74.00 | 20.94 | Peak |
| 2390.08 | 32.16 | 6.08 | 13.63 | 51.87 | 74.00 | 22.13 | Peak |
| 2444.20 | 32.23 | 6.14 | 71.61 | 109.98 | --- | --- | Peak |
| 2483.58 | 32.28 | 6.19 | 13.37 | 51.84 | 74.00 | 22.16 | Peak |
| 2486.44 | 32.28 | 6.19 | 15.30 | 53.77 | 74.00 | 20.23 | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2384.36 | 32.13 | 6.07 | 3.73 | 41.93 | 54.00 | 12.07 | Average |
| 2390.08 | 32.16 | 6.08 | 3.02 | 41.26 | 54.00 | 12.74 | Average |
| 2444.64 | 32.23 | 6.14 | 61.82 | 100.19 | --- | --- | Average |
| 2483.58 | 32.28 | 6.19 | 3.64 | 42.11 | 54.00 | 11.89 | Average |
| 2489.74 | 32.30 | 6.19 | 4.44 | 42.93 | 54.00 | 11.07 | Average |

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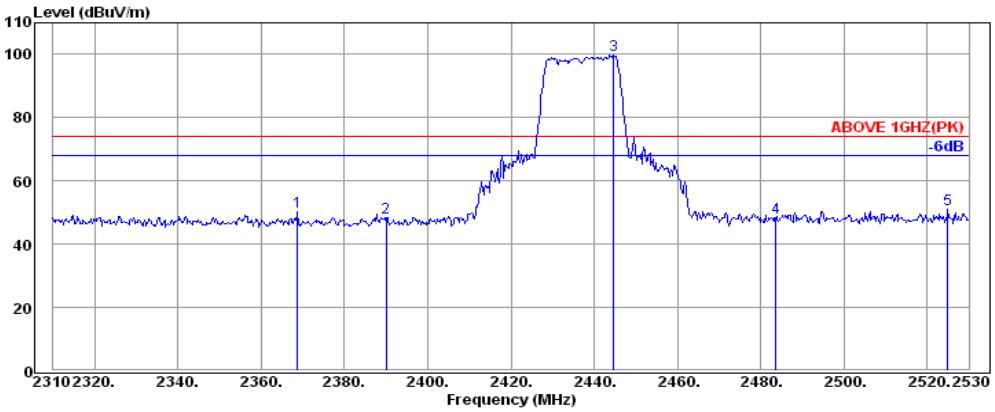
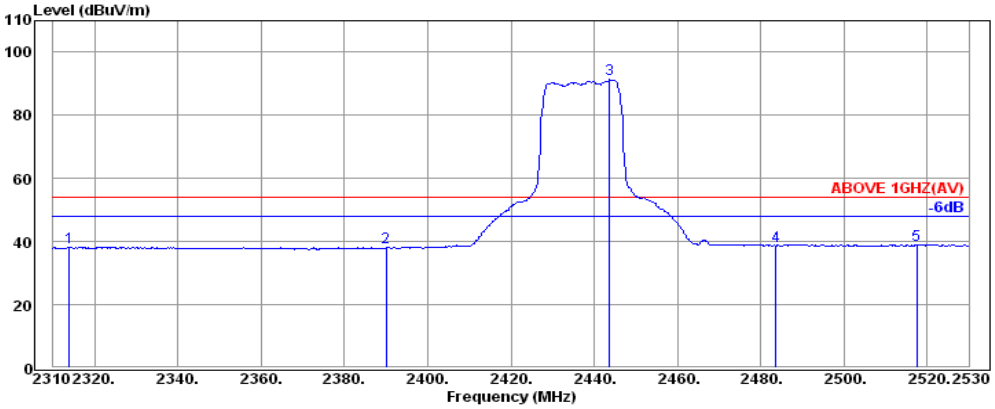
| Mode | 802.11n-HT20 | Frequency | TX 2437MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2368.74 | 32.13 | 6.05 | 12.25 | 50.43 | 74.00 | 23.57 | Peak |
| 2390.08 | 32.16 | 6.08 | 10.23 | 48.47 | 74.00 | 25.53 | Peak |
| 2444.64 | 32.23 | 6.14 | 61.36 | 99.73 | --- | --- | Peak |
| 2483.58 | 32.28 | 6.19 | 10.10 | 48.57 | 74.00 | 25.43 | Peak |
| 2524.94 | 32.34 | 6.25 | 12.46 | 51.05 | 74.00 | 22.95 | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2313.96 | 32.03 | 5.98 | 0.21 | 38.22 | 54.00 | 15.78 | Average |
| 2390.08 | 32.16 | 6.08 | -0.22 | 38.02 | 54.00 | 15.98 | Average |
| 2443.76 | 32.23 | 6.14 | 52.96 | 91.33 | --- | --- | Average |
| 2483.58 | 32.28 | 6.19 | 0.25 | 38.72 | 54.00 | 15.28 | Average |
| 2517.46 | 32.32 | 6.23 | 0.43 | 38.98 | 54.00 | 15.02 | Average |

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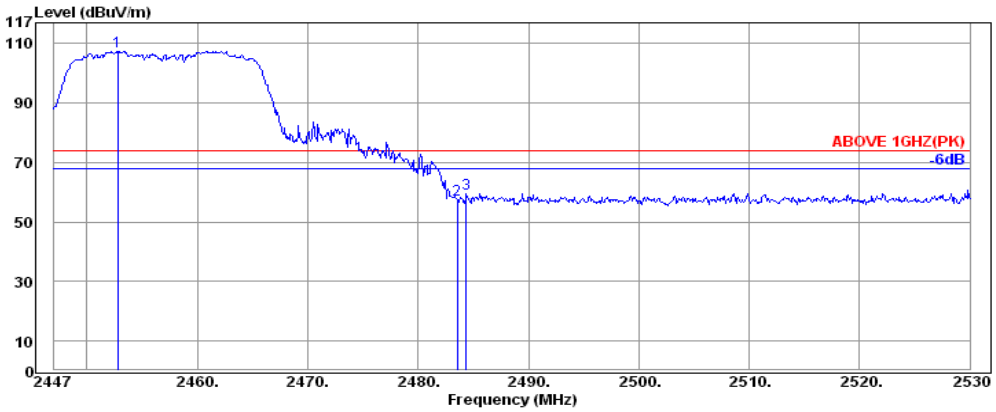
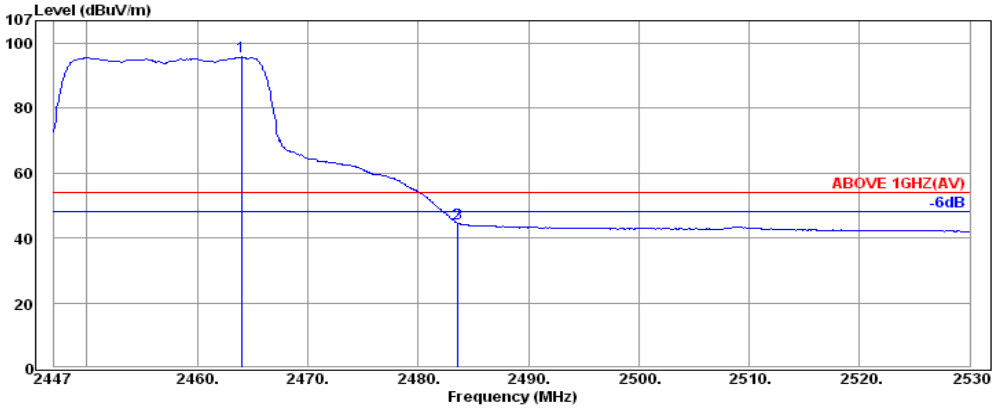
| Mode | 802.11n-HT20 | Frequency | TX 2457MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2452.81 | 32.23 | 6.15 | 69.08 | 107.46 | --- | --- | Peak |
| 2483.52 | 32.28 | 6.19 | 18.92 | 57.39 | 74.00 | 16.61 | Peak |
| 2484.35 | 32.28 | 6.19 | 21.23 | 59.70 | 74.00 | 14.30 | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2464.02 | 32.25 | 6.16 | 57.41 | 95.82 | --- | --- | Average |
| 2483.52 | 32.28 | 6.19 | 6.20 | 44.67 | 54.00 | 9.33 | Average |
| 2483.60 | 32.28 | 6.19 | 6.08 | 44.55 | 54.00 | 9.45 | Average |

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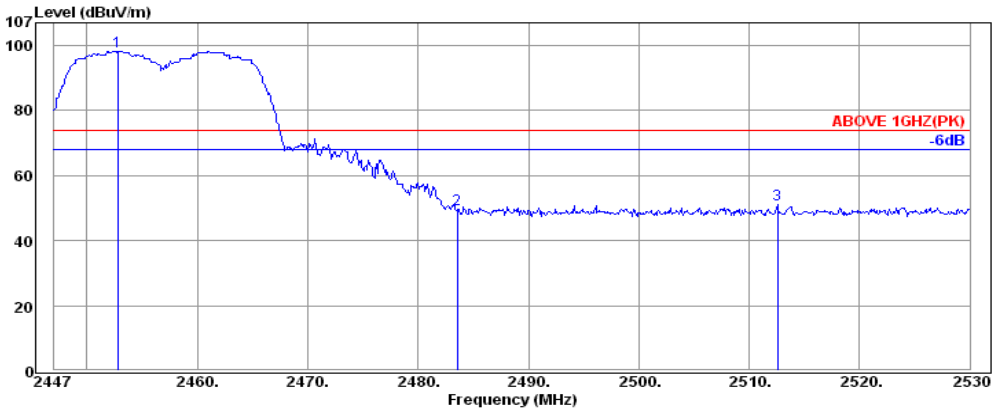
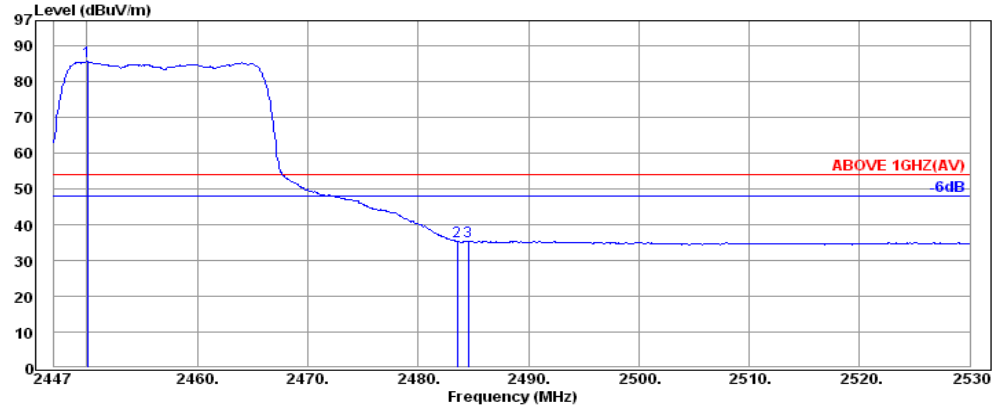
| Mode | 802.11n-HT20 | Frequency | TX 2457MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2452.81 | 32.23 | 6.15 | 59.85 | 98.23 | --- | --- | Peak |
| 2483.52 | 32.28 | 6.19 | 11.13 | 49.60 | 74.00 | 24.40 | Peak |
| 2512.57 | 32.32 | 6.22 | 12.63 | 51.17 | 74.00 | 22.83 | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2450.07 | 32.23 | 6.14 | 47.19 | 85.56 | --- | --- | Average |
| 2483.52 | 32.28 | 6.19 | -3.13 | 35.34 | 54.00 | 18.66 | Average |
| 2484.52 | 32.28 | 6.19 | -3.00 | 35.47 | 54.00 | 18.53 | Average |

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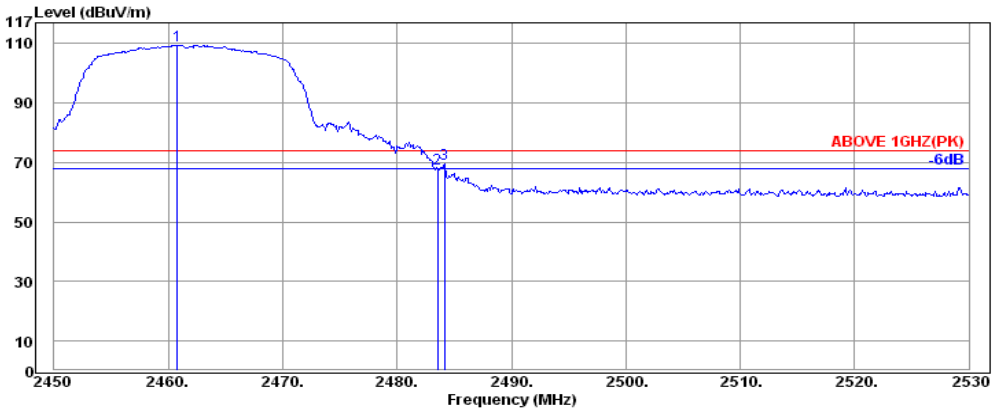
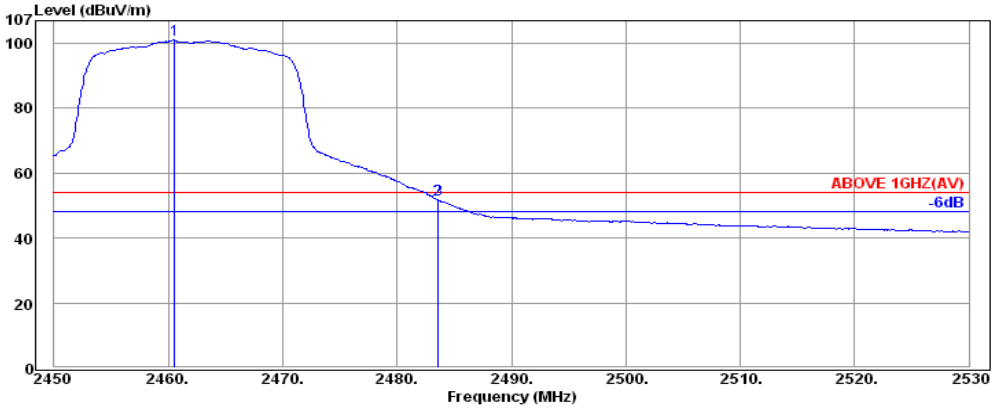
| Mode | 802.11n-HT20 | Frequency | TX 2462MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2460.80 | 32.25 | 6.16 | 70.97 | 109.38 | --- | --- | Peak |
| 2483.52 | 32.28 | 6.19 | 29.42 | 67.89 | 74.00 | 6.11 | Peak |
| 2484.16 | 32.28 | 6.19 | 31.10 | 69.57 | 74.00 | 4.43 | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2460.56 | 32.25 | 6.16 | 62.54 | 100.95 | --- | --- | Average |
| 2483.52 | 32.28 | 6.19 | 13.38 | 51.85 | 54.00 | 2.15 | Average |
| 2483.60 | 32.28 | 6.19 | 13.23 | 51.70 | 54.00 | 2.30 | Average |

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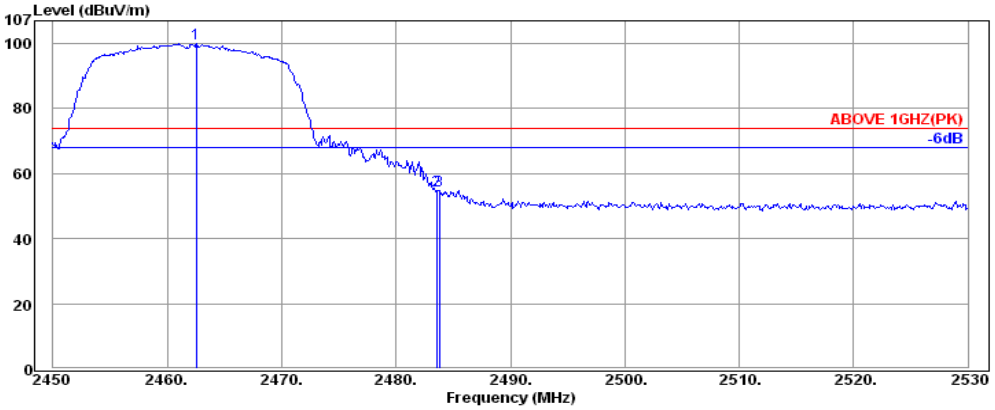
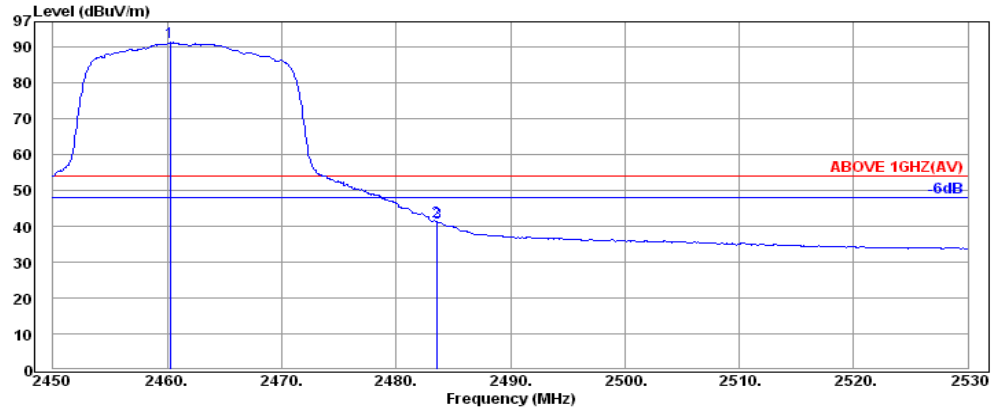
| Mode | 802.11n-HT20 | Frequency | TX 2462MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2462.56 | 32.25 | 6.16 | 61.46 | 99.87 | --- | --- | Peak |
| 2483.52 | 32.28 | 6.19 | 16.20 | 54.67 | 74.00 | 19.33 | Peak |
| 2483.76 | 32.28 | 6.19 | 16.47 | 54.94 | 74.00 | 19.06 | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2460.24 | 32.25 | 6.16 | 52.78 | 91.19 | --- | --- | Average |
| 2483.52 | 32.28 | 6.19 | 2.84 | 41.31 | 54.00 | 12.69 | Average |
| 2483.60 | 32.28 | 6.19 | 2.69 | 41.16 | 54.00 | 12.84 | Average |

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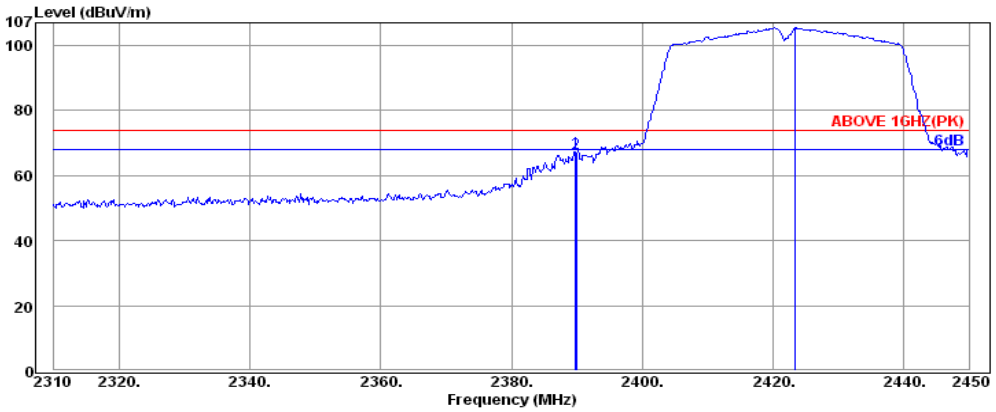
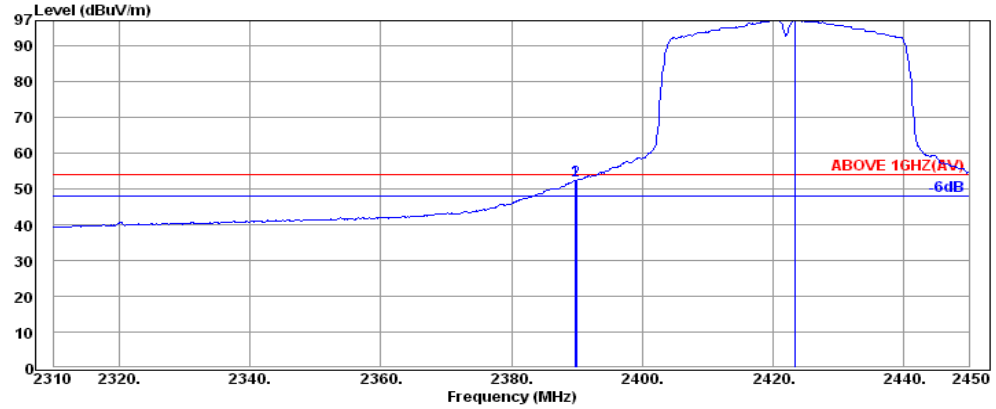
| Mode | 802.11n-HT40 | Frequency | TX 2422MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.80 | 32.16 | 6.08 | 29.00 | 67.24 | 74.00 | 6.76 | Peak |
| 2389.94 | 32.16 | 6.08 | 28.53 | 66.77 | 74.00 | 7.23 | Peak |
| 2423.40 | 32.20 | 6.12 | 67.34 | 105.66 | --- | --- | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.80 | 32.16 | 6.08 | 14.00 | 52.24 | 54.00 | 1.76 | Average |
| 2389.94 | 32.16 | 6.08 | 14.13 | 52.37 | 54.00 | 1.63 | Average |
| 2423.40 | 32.20 | 6.12 | 59.18 | 97.50 | --- | --- | Average |

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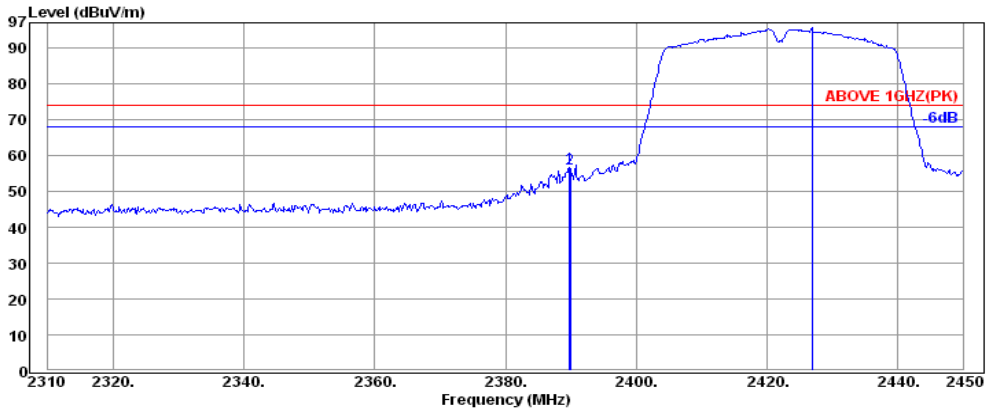
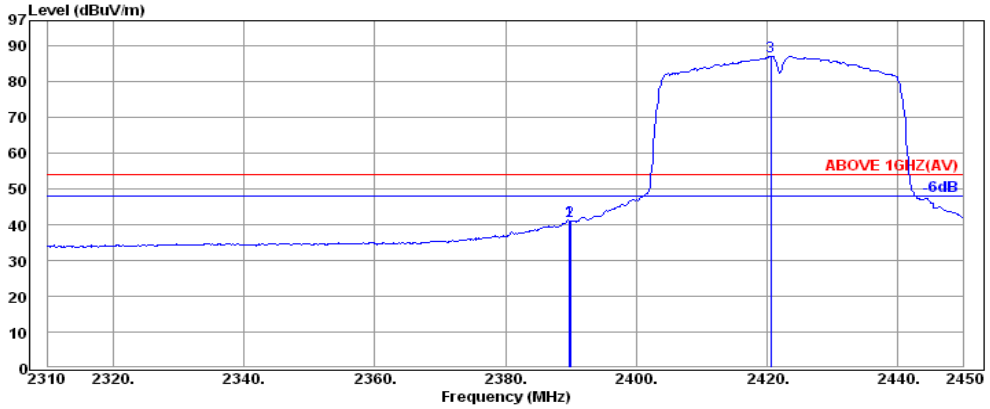
| Mode | 802.11n-HT40 | Frequency | TX 2422MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.80 | 32.16 | 6.08 | 18.27 | 56.51 | 74.00 | 17.49 | Peak |
| 2389.94 | 32.16 | 6.08 | 18.13 | 56.37 | 74.00 | 17.63 | Peak |
| 2426.90 | 32.20 | 6.13 | 57.39 | 95.72 | --- | --- | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.80 | 32.16 | 6.08 | 2.92 | 41.16 | 54.00 | 12.84 | Average |
| 2389.94 | 32.16 | 6.08 | 2.87 | 41.11 | 54.00 | 12.89 | Average |
| 2420.60 | 32.20 | 6.12 | 48.71 | 87.03 | --- | --- | Average |

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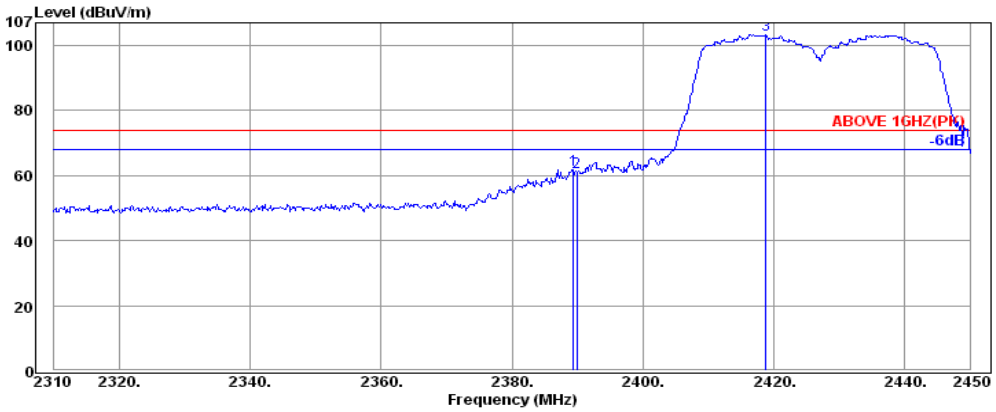
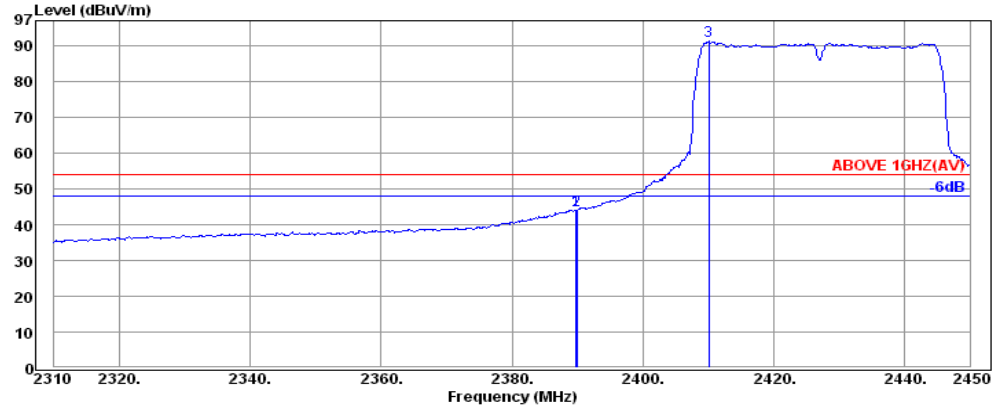
| Mode | 802.11n-HT40 | Frequency | TX 2427MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.38 | 32.16 | 6.08 | 23.68 | 61.92 | 74.00 | 12.08 | Peak |
| 2389.94 | 32.16 | 6.08 | 22.89 | 61.13 | 74.00 | 12.87 | Peak |
| 2418.78 | 32.18 | 6.12 | 65.17 | 103.47 | --- | --- | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.80 | 32.16 | 6.08 | 5.69 | 43.93 | 54.00 | 10.07 | Average |
| 2389.94 | 32.16 | 6.08 | 5.81 | 44.05 | 54.00 | 9.95 | Average |
| 2410.10 | 32.18 | 6.10 | 53.01 | 91.29 | --- | --- | Average |

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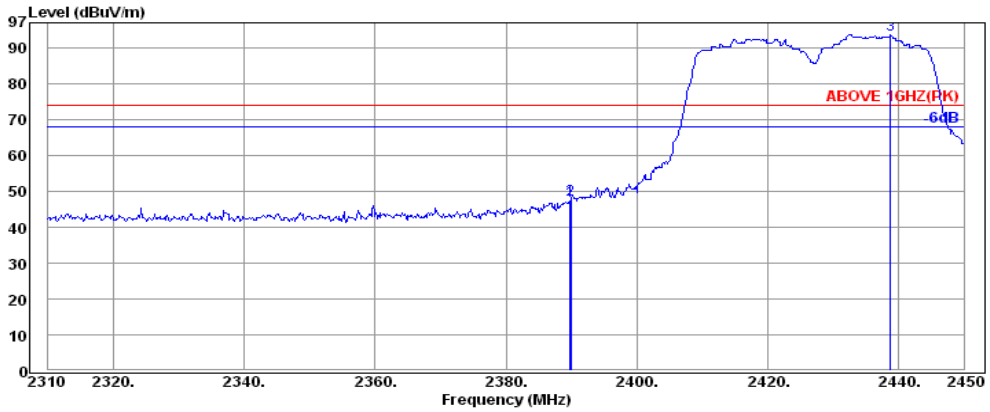
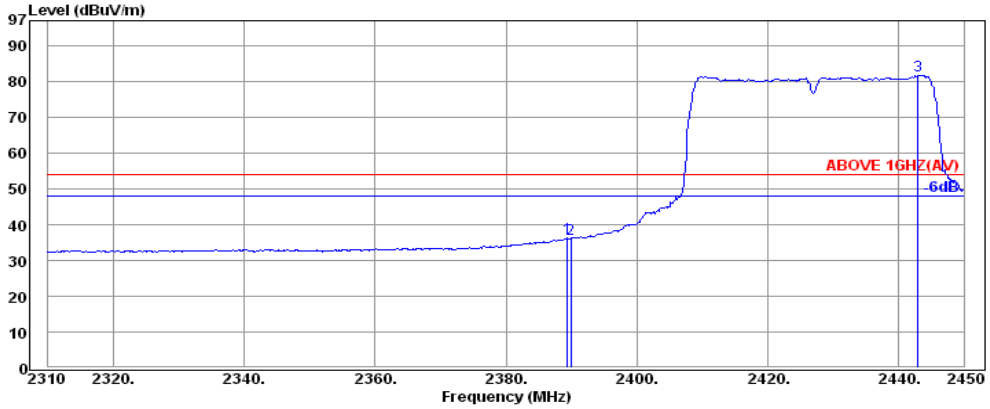
| Mode | 802.11n-HT40 | Frequency | TX 2427MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.80 | 32.16 | 6.08 | 9.25 | 47.49 | 74.00 | 26.51 | Peak |
| 2389.94 | 32.16 | 6.08 | 9.49 | 47.73 | 74.00 | 26.27 | Peak |
| 2438.80 | 32.23 | 6.13 | 55.23 | 93.59 | --- | --- | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.38 | 32.16 | 6.08 | -2.05 | 36.19 | 54.00 | 17.81 | Average |
| 2389.94 | 32.16 | 6.08 | -2.17 | 36.07 | 54.00 | 17.93 | Average |
| 2443.00 | 32.23 | 6.14 | 43.27 | 81.64 | --- | --- | Average |

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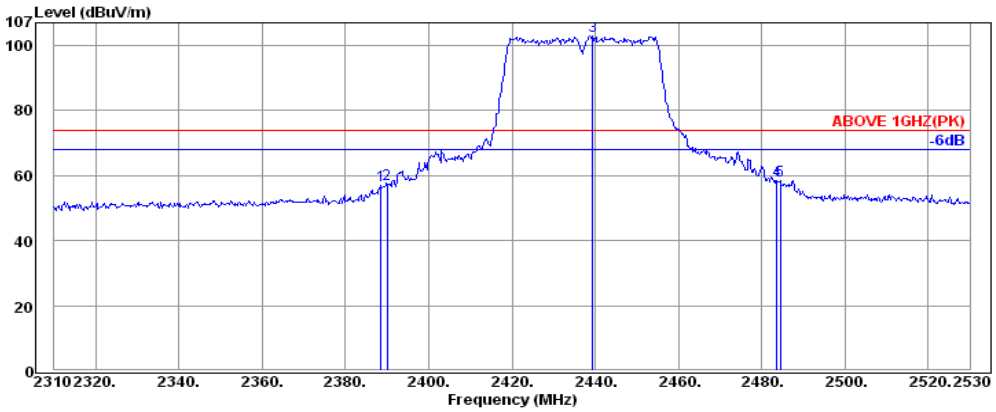
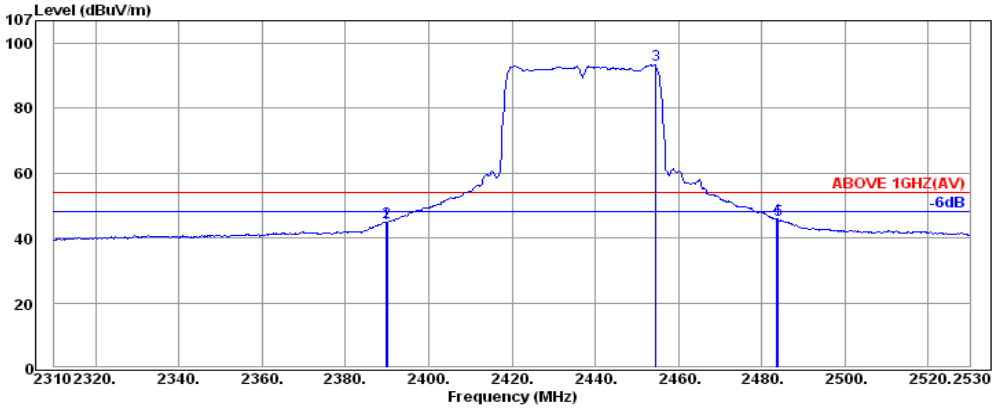
| Mode | 802.11n-HT40 | Frequency | TX 2437MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2388.54 | 32.16 | 6.08 | 18.81 | 57.05 | 74.00 | 16.95 | Peak |
| 2390.08 | 32.16 | 6.08 | 19.25 | 57.49 | 74.00 | 16.51 | Peak |
| 2439.36 | 32.23 | 6.13 | 64.49 | 102.85 | --- | --- | Peak |
| 2483.58 | 32.28 | 6.19 | 19.85 | 58.32 | 74.00 | 15.68 | Peak |
| 2484.46 | 32.28 | 6.19 | 19.99 | 58.46 | 74.00 | 15.54 | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.86 | 32.16 | 6.08 | 6.25 | 44.49 | 54.00 | 9.51 | Average |
| 2390.08 | 32.16 | 6.08 | 6.59 | 44.83 | 54.00 | 9.17 | Average |
| 2454.54 | 32.25 | 6.15 | 55.00 | 93.40 | --- | --- | Average |
| 2483.58 | 32.28 | 6.19 | 7.52 | 45.99 | 54.00 | 8.01 | Average |
| 2484.02 | 32.28 | 6.19 | 7.19 | 45.66 | 54.00 | 8.34 | Average |

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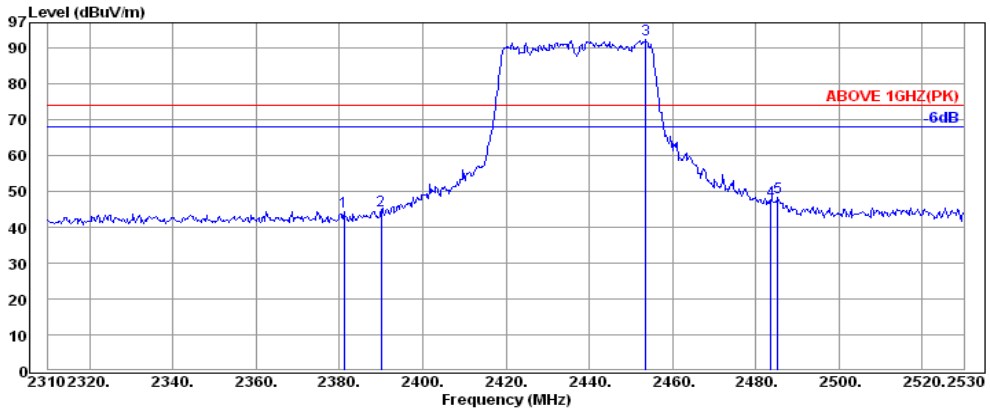
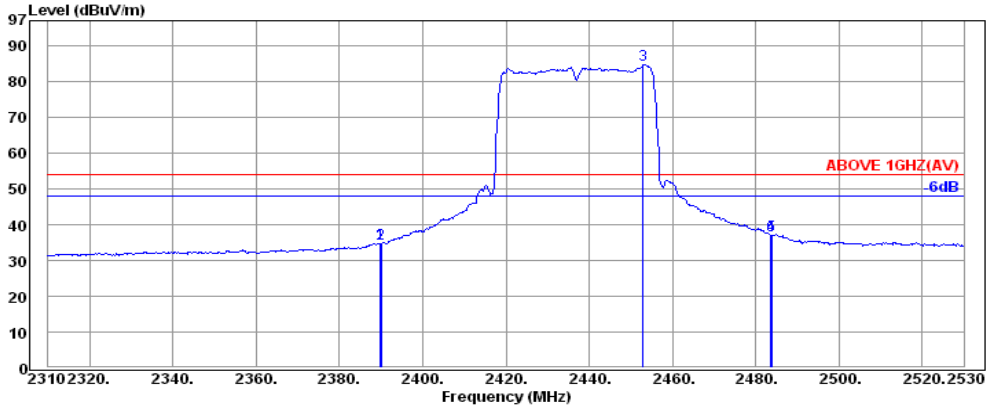
| Mode | 802.11n-HT40 | Frequency | TX 2437MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2381.06 | 32.13 | 6.07 | 6.27 | 44.47 | 74.00 | 29.53 | Peak |
| 2390.08 | 32.16 | 6.08 | 6.32 | 44.56 | 74.00 | 29.44 | Peak |
| 2453.66 | 32.25 | 6.15 | 54.02 | 92.42 | --- | --- | Peak |
| 2483.58 | 32.28 | 6.19 | 9.02 | 47.49 | 74.00 | 26.51 | Peak |
| 2485.34 | 32.28 | 6.19 | 9.80 | 48.27 | 74.00 | 25.73 | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2389.86 | 32.16 | 6.08 | -3.60 | 34.64 | 54.00 | 19.36 | Average |
| 2390.08 | 32.16 | 6.08 | -3.50 | 34.74 | 54.00 | 19.26 | Average |
| 2453.00 | 32.23 | 6.15 | 46.32 | 84.70 | --- | --- | Average |
| 2483.58 | 32.28 | 6.19 | -1.33 | 37.14 | 54.00 | 16.86 | Average |
| 2483.80 | 32.28 | 6.19 | -1.40 | 37.07 | 54.00 | 16.93 | Average |

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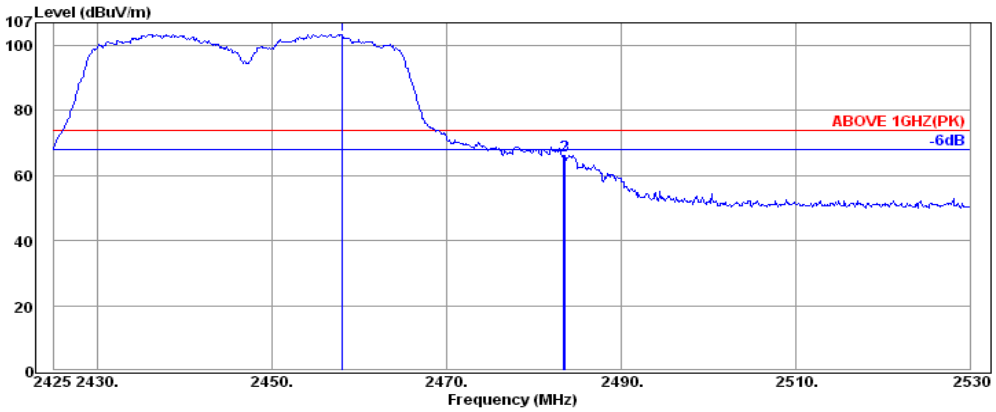
| Mode | 802.11n-HT40 | Frequency | TX 2447MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2458.08 | 32.25 | 6.15 | 65.03 | 103.43 | --- | --- | Peak |
| 2483.49 | 32.28 | 6.19 | 27.83 | 66.30 | 74.00 | 7.70 | Peak |
| 2483.59 | 32.28 | 6.19 | 27.68 | 66.15 | 74.00 | 7.85 | Peak |


**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2429.94 | 32.20 | 6.13 | 52.10 | 90.43 | --- | --- | Average |
| 2483.49 | 32.28 | 6.19 | 4.29 | 42.76 | 54.00 | 11.24 | Average |
| 2483.59 | 32.28 | 6.19 | 4.51 | 42.98 | 54.00 | 11.02 | Average |

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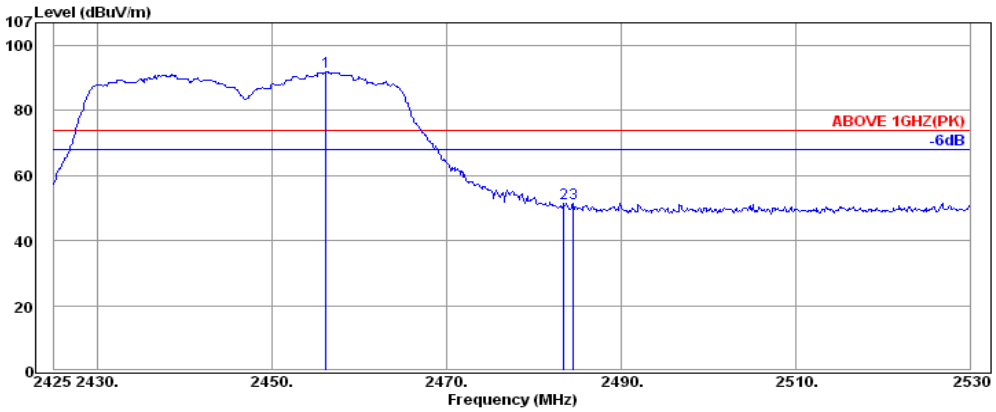
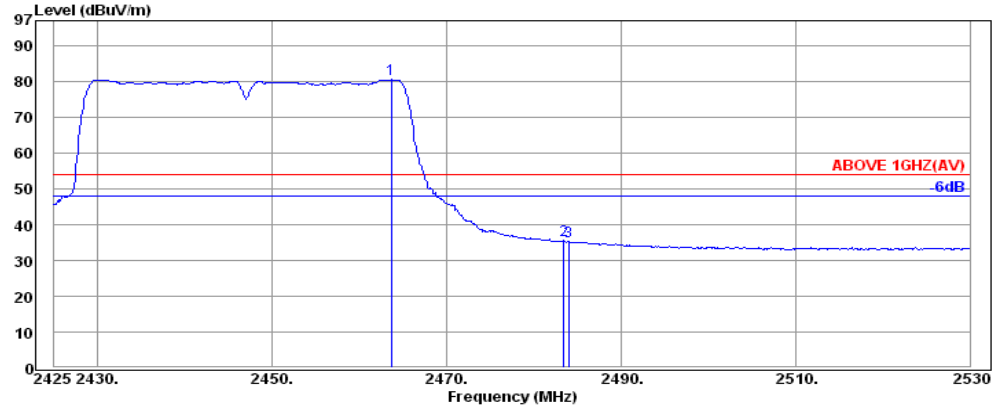
| Mode | 802.11n-HT40 | Frequency | TX 2447MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2456.19 | 32.25 | 6.15 | 53.52 | 91.92 | --- | --- | Peak |
| 2483.49 | 32.28 | 6.19 | 12.93 | 51.40 | 74.00 | 22.60 | Peak |
| 2484.54 | 32.28 | 6.19 | 13.17 | 51.64 | 74.00 | 22.36 | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2463.64 | 32.25 | 6.16 | 42.12 | 80.53 | --- | --- | Average |
| 2483.49 | 32.28 | 6.19 | -2.97 | 35.50 | 54.00 | 18.50 | Average |
| 2484.01 | 32.28 | 6.19 | -3.01 | 35.46 | 54.00 | 18.54 | Average |

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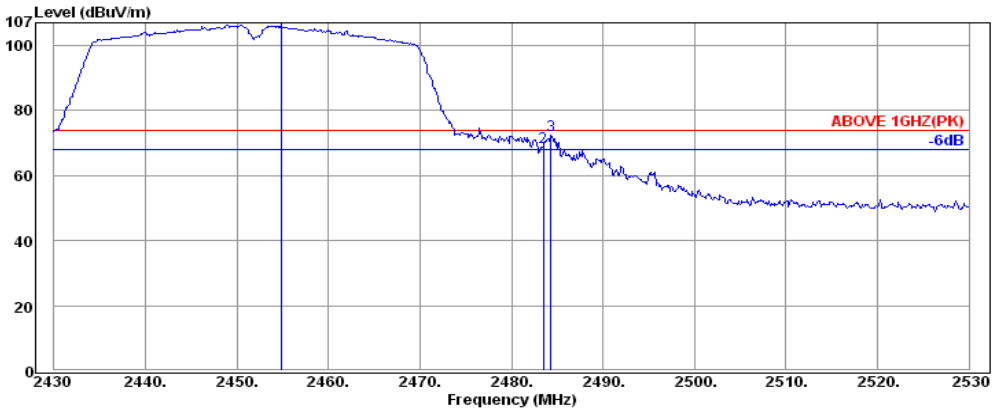
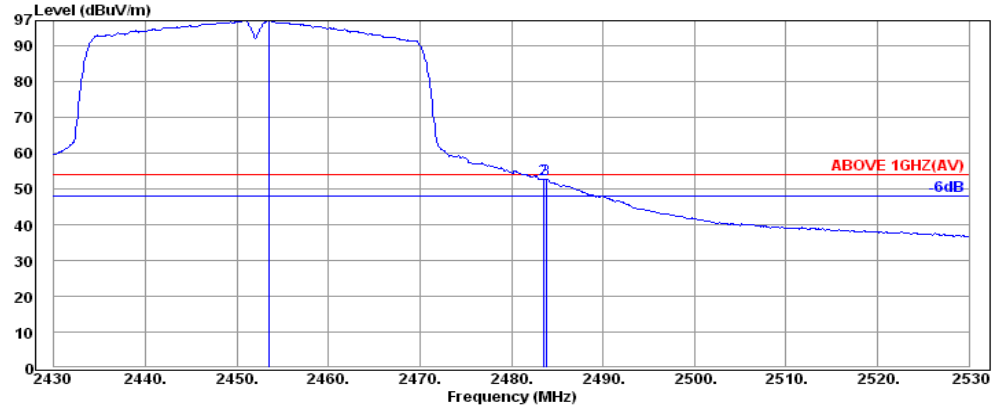
| Mode | 802.11n-HT40 | Frequency | TX 2452MHz |
|---|---|---|---|




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2454.80 | 32.25 | 6.15 | 68.26 | 106.66 | --- | --- | Peak |
| 2483.50 | 32.28 | 6.19 | 30.22 | 68.69 | 74.00 | 5.31 | Peak |
| 2484.30 | 32.28 | 6.19 | 33.84 | 72.31 | 74.00 | 1.69 | Peak |




**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBµV) | Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2453.50 | 32.25 | 6.15 | 58.82 | 97.22 | --- | --- | Average |
| 2483.50 | 32.28 | 6.19 | 14.27 | 52.74 | 54.00 | 1.26 | Average |
| 2483.80 | 32.28 | 6.19 | 14.28 | 52.75 | 54.00 | 1.25 | Average |

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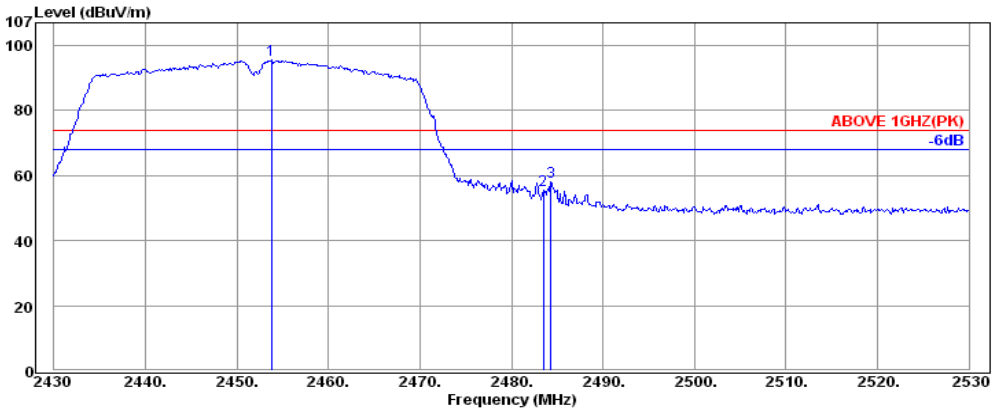
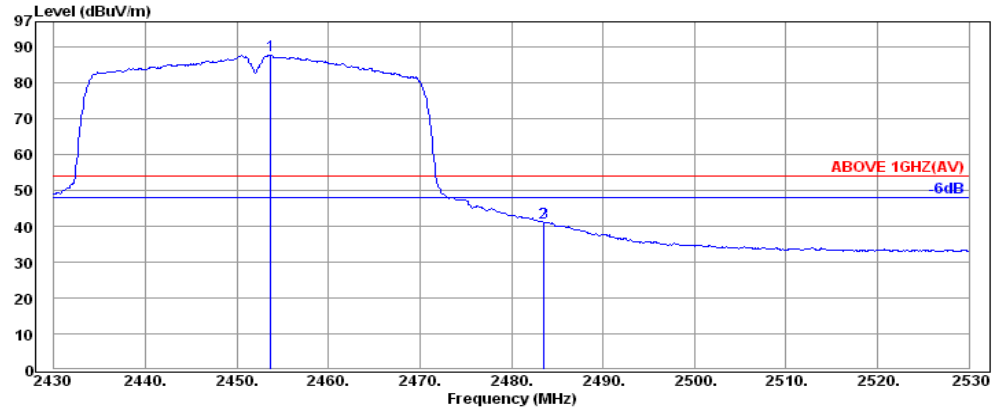
| Mode | 802.11n-HT40 | Frequency | TX 2452MHz |
|---|---|---|---|




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2453.80 | 32.25 | 6.15 | 57.04 | 95.44 | --- | --- | Peak |
| 2483.50 | 32.28 | 6.19 | 17.09 | 55.56 | 74.00 | 18.44 | Peak |
| 2484.30 | 32.28 | 6.19 | 19.73 | 58.20 | 74.00 | 15.80 | Peak |




**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2453.70 | 32.25 | 6.15 | 49.29 | 87.69 | --- | --- | Average |
| 2483.50 | 32.28 | 6.19 | 2.63 | 41.10 | 54.00 | 12.90 | Average |
| 2483.60 | 32.28 | 6.19 | 2.59 | 41.06 | 54.00 | 12.94 | Average |

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6.5.3. Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

| Mode | 802.11b | Frequency | TX 2437MHz |
|---|---|---|---|

**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 3075.00 | 32.89 | 6.96 | 5.41 | 45.26 | 54.00 | 8.74 | Peak |

Remark: The Vertical Polarization emissions not reported for there is no emission be found.

| Mode | 802.11g | Frequency | TX 2437MHz |
|---|---|---|---|

**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 2356.00 | 32.11 | 6.03 | 51.20 | 54.78 | 74.00 | 19.22 | Peak |
| 2356.00 | 32.11 | 6.03 | 40.29 | 43.87 | 54.00 | 10.13 | Average |
| 3065.00 | 32.89 | 6.93 | 5.75 | 45.57 | 54.00 | 8.43 | Peak |

**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 3075.00 | 32.89 | 6.96 | 7.13 | 46.98 | 54.00 | 7.02 | Peak |

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| Mode | 802.11n-HT20 | Frequency | TX 2437MHz |
|---|---|---|---|

**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 3075.00 | 32.89 | 6.96 | 6.03 | 45.88 | 54.00 | 8.12 | Peak |

**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 3065.00 | 32.89 | 6.93 | 6.58 | 46.40 | 54.00 | 7.60 | Peak |

| Mode | 802.11n-HT40 | Frequency | TX 2437MHz |
|---|---|---|---|

**Antenna at Horizontal Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 3065.00 | 32.89 | 6.93 | 5.93 | 45.75 | 54.00 | 8.25 | Peak |

**Antenna at Vertical Polarization**

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 3065.00 | 32.89 | 6.93 | 5.51 | 45.33 | 54.00 | 8.67 | Peak |

6.5.4. Emissions in Non-restricted Frequency Bands

Pursuant to KDB 558074 D01 v03r05 that emission levels below the 15.209/RSS-Gen Section 8.9 table 4 general radiated emissions limits is not required.

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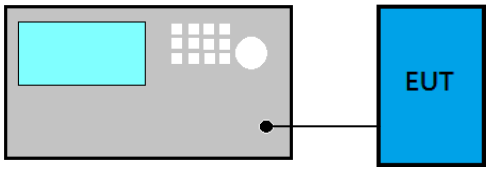
# 7. 6dB BANDWIDTH MEASUREMENT

## 7.1. Block Diagram of Test Setup




## 7.2. Specification Limits

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

## 7.3. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v03r05:

■ Option 2

(1) Set RBW = 100 kHz.
(2) Set the video bandwidth (VBW) ≥ 3 × RBW.
(3) Detector = Peak.
(4) Trace mode = max hold.
(5) Sweep = auto couple.
(6) Allow the trace to stabilize.
(7) Setting channel bandwidth function x dB to -6 dB to record the final bandwidth.

## 7.4. Test Results

Please refer to Appendix A

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# 8. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

## 8.1. Block Diagram of Test Setup


## 8.2. Specification Limits

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm), and E.I.R.P.: 4Watt (36dBm)

## 8.3. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v03r05:

■**PKPM1 Peak power meter method:**

EUT is connected to power sensor and record the maximum output power.

□**Method AVGPM (Measurement using an RF average power meter):**

EUT is connected to power sensor and record the maximum average output power and duty cycle factor is added when duty cycle presented in section 3.5 is < 98%.

□**Method AVGSA-2 (Spectrum channel power)**

(1) Set span to at least 1.5 times the OBW
(2) Set RBW = 1 -5% of OBW
(3) Set the video bandwidth (VBW) ≥ 3 × RBW.
(4) Detector = RMS.
(5) Trace mode = trace average at least 100 traces
(6) Sweep = auto couple.
(7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
(8) Duty cycle factor is added when duty cycle presented in section 3.5 is < 98%.

## 8.4. Test Results

Please refer to Appendix A

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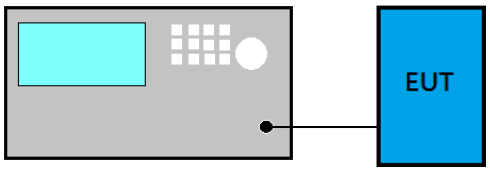
# 9. EMISSION LIMITATIONS MEASUREMENT

## 9.1. Block Diagram of Test Setup




## 9.2. Specification Limits

In any 100kHz 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 20dB below that in the 100kHz 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)/RSS-Gen Section 8.9 table 4 is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a)/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 (See Section 15.205(c)).

## 9.3. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v03r05:

**■Reference Level**

(1) Set analyzer center frequency to DTS channel center frequency.
(2) Set the span to 1.5 times the DTS bandwidth.
(3) Set the RBW to: 100 kHz.
(4) Set the VBW ≥ 3 × RBW.
(5) Detector = peak.
(6) Sweep time = auto couple.
(7) Trace mode = max hold.
(8) Allow trace to fully stabilize to find the max PSD as reference level.

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**■Emission Level Measurement**

(1) Set analyzer center frequency to DTS channel center frequency.
(2) Set the span to 1.5 times the DTS bandwidth.
(3) Set the RBW to: 100 kHz.
(4) Set the VBW ≥ 3 × RBW.
(5) Detector = peak.
(6) Sweep time = auto couple.
(7) Trace mode = max hold.
(8) Allow trace to fully stabilize to find the max level.

## 9.4. Test Results

Please refer to Appendix A

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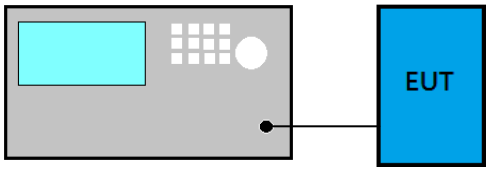
# 10. POWER SPECTRAL DENSITY

## 10.1. Block Diagram of Test Setup




## 10.2. Specification Limits

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

## 10.3. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v03r05:

**■Method PKPSD (peak PSD)**

(1) Set analyzer center frequency to DTS channel center frequency.
(2) Set the span to 1.5 times the DTS bandwidth.
(3) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
(4) Set the VBW ≥ 3 × RBW.
(5) Detector = peak.
(6) Sweep time = auto couple.
(7) Trace mode = max hold.
(8) Allow trace to fully stabilize.
(9) Use the peak marker function to determine the maximum amplitude level.
(10) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

**□Method AVGPSD-2**

(1) Using peak PSD procedure step 1 to step 4.
(2) Detector= RMS detector
(3) Sweep time = auto couple
(4) Trace mode = trace averaging over a minimum of 100 traces
(5) Use the peak marker function to determine the maximum amplitude level.
(6) Duty cycle factor is added when duty cycle presented in section 3.5 < 98%.
(7) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

## 10.4. Test Results

Please refer to Appendix A

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# 11. DEVIATION TO TEST SPECIFICATIONS

【NONE】

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# APPENDIX A

## TEST PLOTS

(Model: DN-8A6WH01B)

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*AUDIX Technology Corp.*
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# A.1 6dB BANDWIDTH MEASUREMENT

| Test Date | 2015/07/11 | Temp./Hum. | 26℃/58% |
|---|---|---|---|
| Cable Loss | --- | Test Voltage | AC 120V, 60Hz |

A.1.1 6dB Bandwidth Result

| Modulation Type | Centre Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit |
|---|---|---|---|
| 802.11b | 2412 | **10.09** | >500kHz |
| | 2437 | **10.09** | |
| | 2462 | **10.06** | |
| 802.11g | 2412 | **15.15** | |
| | 2437 | **15.16** | |
| | 2462 | **15.15** | |
| 802.11n-HT20 | 2412 | **15.16** | |
| | 2437 | **15.16** | |
| | 2462 | **15.16** | |
| 802.11n-HT40 | 2422 | **35.15** | |
| | 2437 | **35.14** | |
| | 2452 | **35.16** | |

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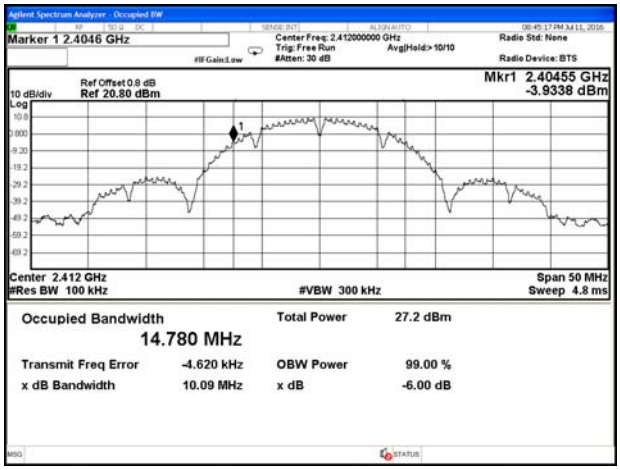
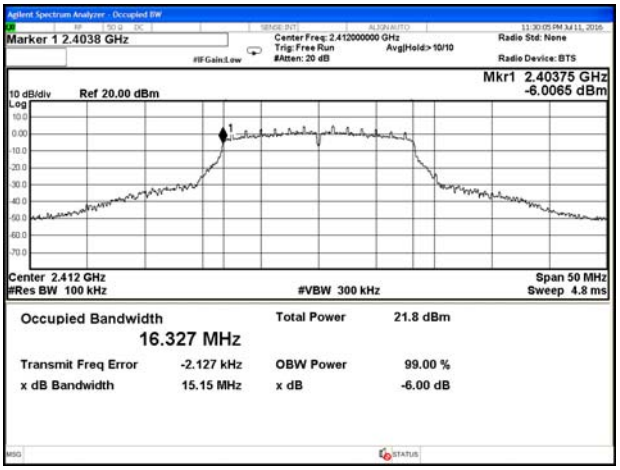
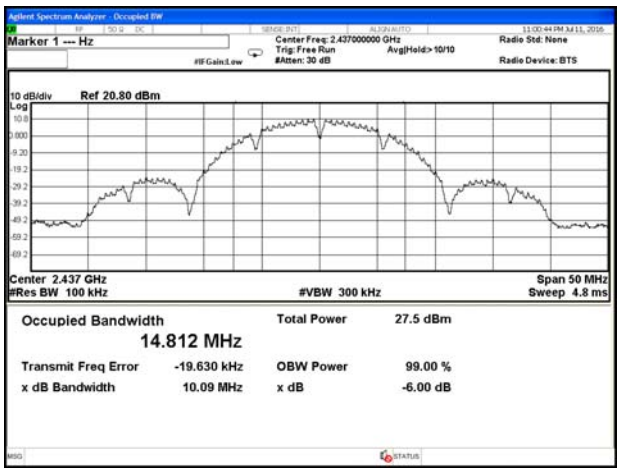
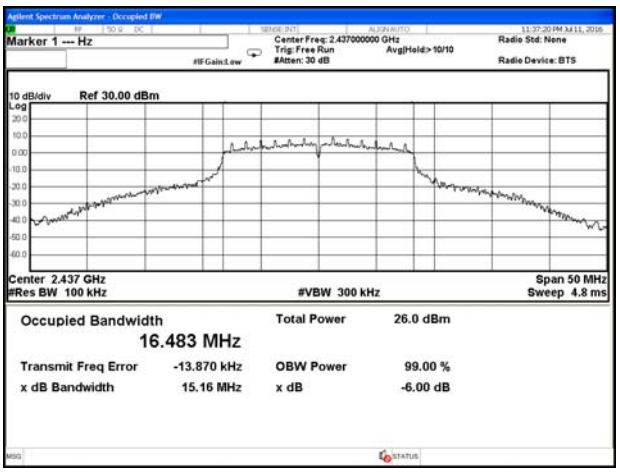
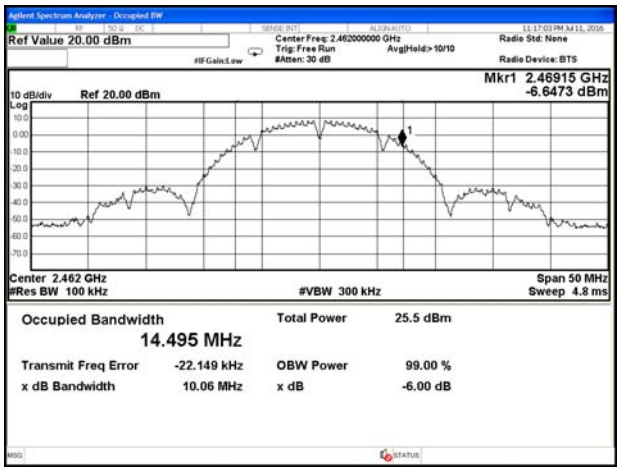
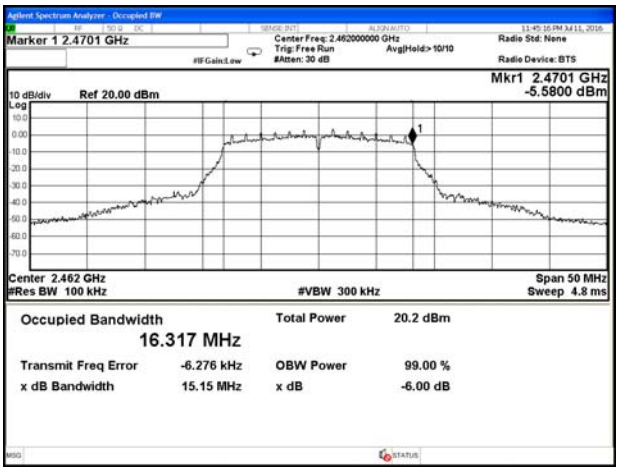
## A.1.2 Measurement Plots

| 802.11b | 802.11g |
|---|---|
|  |  |
|  |  |
|  |  |

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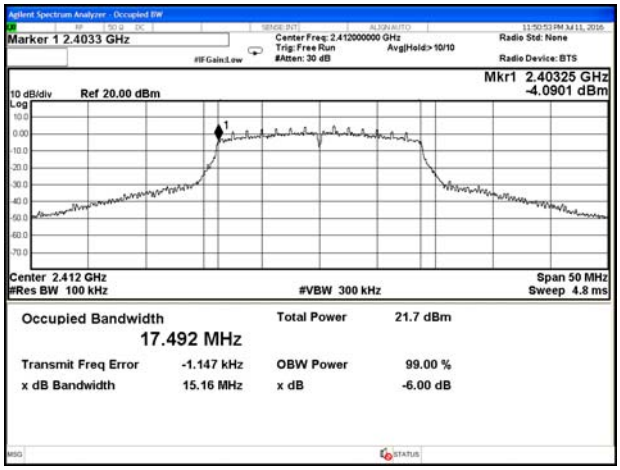
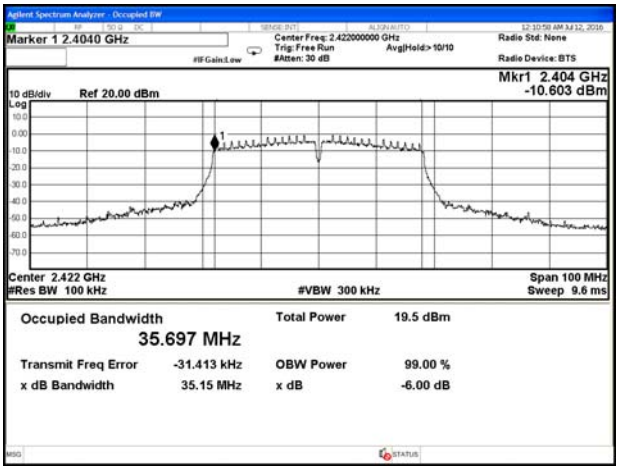
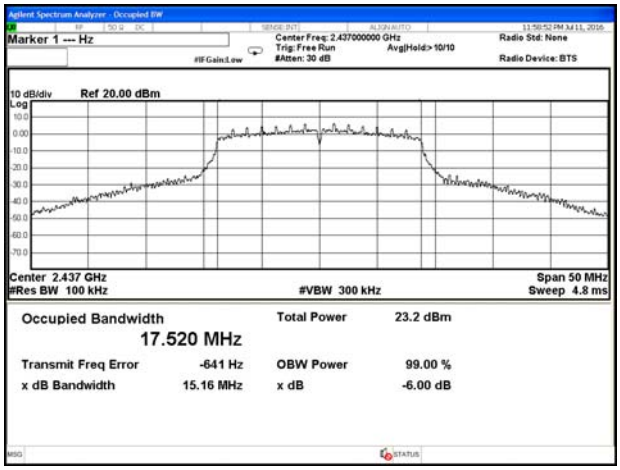
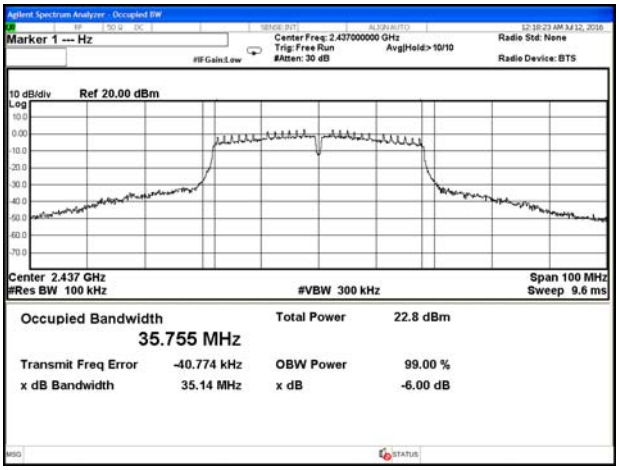
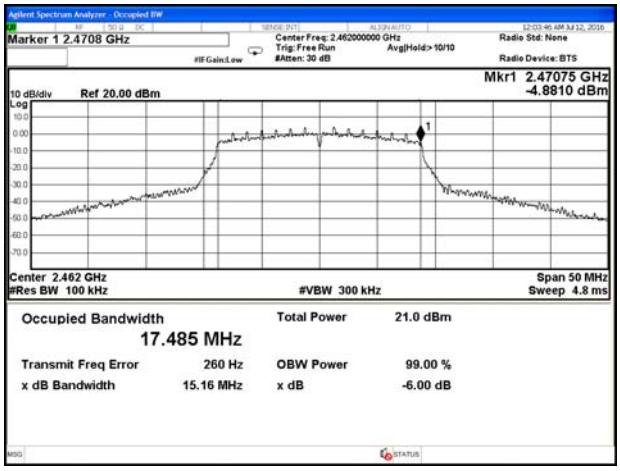
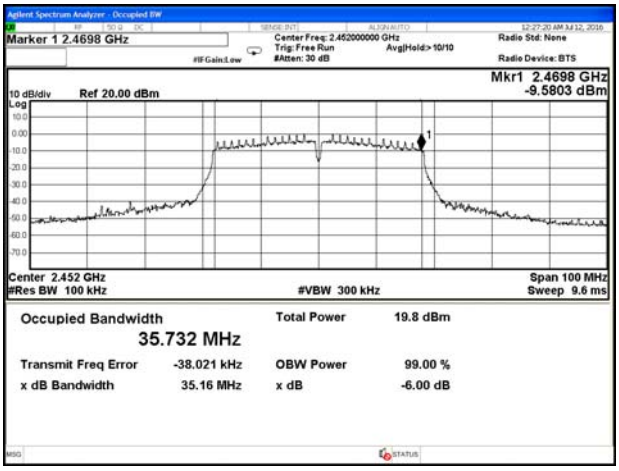
| 802.11n-HT20 | 802.11n-HT40 |
|---|---|
|  |  |
|  |  |
|  |  |

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# A.2 MAXIMUM PEAK OUTPUT POWER MEASUREMENT

| Test Date | 2015/07/11 | Temp./Hum. | 26℃/58% |
|---|---|---|---|
| Cable Loss | --- | Test Voltage | AC 120V, 60Hz |

A.2.1 Peak Output Power

| Modulation Type | Centre Frequency (MHz) | Maximum Output Power (dBm) | Maximum Output Power (W) | Antenna Gain (dBi | Output Power (E.I.R.P.) (dBm) | Output Power (E.I.R.P.) (W) | Limit |
|---|---|---|---|---|---|---|---|
| 802.11b | 2412 | 20.22 | 0.105196 | 2.99 | 23.21 | 0.209411 | < 30dBm (1W) (Maximum Output Power) < 36dBm (4W) (E.I.R.P) |
| | 2417 | 20.09 | 0.102094 | | 23.08 | 0.203236 | |
| | 2437 | 20.14 | 0.103276 | | 23.13 | 0.205589 | |
| | 2457 | 19.90 | 0.097724 | | 22.89 | 0.194536 | |
| | 2462 | 19.94 | 0.098628 | | 22.93 | 0.196336 | |
| 802.11g | 2412 | 23.11 | 0.204644 | | 26.10 | 0.407380 | |
| | 2417 | 23.03 | 0.200909 | | 26.02 | 0.399945 | |
| | 2437 | 24.24 | 0.265461 | | 27.23 | 0.528445 | |
| | 2457 | 21.67 | 0.146893 | | 24.66 | 0.292415 | |
| | 2462 | 21.73 | 0.148936 | | 24.72 | 0.296483 | |
| 802.11n-HT20 | 2412 | 23.06 | 0.202302 | | 26.05 | 0.402717 | |
| | 2417 | 23.08 | 0.203236 | | 26.07 | 0.404576 | |
| | 2437 | 23.73 | 0.236048 | | 26.72 | 0.469894 | |
| | 2457 | 22.79 | 0.190108 | | 25.78 | 0.378443 | |
| | 2462 | 22.61 | 0.182390 | | 25.60 | 0.363078 | |
| 802.11n-HT40 | 2422 | 20.73 | 0.118304 | | 23.72 | 0.235505 | |
| | 2427 | 20.81 | 0.120504 | | 23.80 | 0.239883 | |
| | 2437 | 23.01 | 0.199986 | | 26.00 | 0.398107 | |
| | 2447 | 21.05 | 0.127350 | | 24.04 | 0.253513 | |
| | 2452 | 20.98 | 0.125314 | | 23.97 | 0.249459 | |

Note: The results have been included cable loss.

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### A.2.2 Average Output Power (Reporting only)

| Modulation Type | Centre Frequency (MHz) | Output Power | | Maximum Output Power | | Antenna Gain (dBi | Output Power (E.I.R.P.) | | Limit |
|---|---|---|---|---|---|---|---|---|---|
| | | (dBm) | 10log (1/X) | (dBm) | (W) | | (dBm) | (W) | |
| 802.11b | 2412 | 18.21 | 0.09 | 18.30 | 0.067608 | 2.99 | 21.29 | 0.134586 | < 30dBm (1W) (Maximum Output Power)<br>< 36dBm (4W) (E.I.R.P) |
| | 2417 | 18.11 | | 18.20 | 0.066069 | | 21.19 | 0.131522 | |
| | 2437 | 18.13 | | 18.22 | 0.066374 | | 21.21 | 0.132130 | |
| | 2457 | 18.02 | | 18.11 | 0.064714 | | 21.10 | 0.128825 | |
| | 2462 | 17.90 | | 17.99 | 0.062951 | | 20.98 | 0.125314 | |
| 802.11g | 2412 | 14.12 | 0.20 | 14.32 | 0.027040 | | 17.31 | 0.053827 | |
| | 2417 | 14.06 | | 14.26 | 0.026669 | | 17.25 | 0.053088 | |
| | 2437 | 16.92 | | 17.12 | 0.051523 | | 20.11 | 0.102565 | |
| | 2457 | 12.52 | | 12.72 | 0.018707 | | 15.71 | 0.037239 | |
| | 2462 | 12.41 | | 12.61 | 0.018239 | | 15.60 | 0.036308 | |
| 802.11n-HT20 | 2412 | 13.85 | 0.30 | 13.85 | 0.024266 | | 16.84 | 0.048306 | |
| | 2417 | 13.76 | | 13.76 | 0.023768 | | 16.75 | 0.047315 | |
| | 2437 | 15.34 | | 15.34 | 0.034198 | | 18.33 | 0.068077 | |
| | 2457 | 13.15 | | 13.15 | 0.020654 | | 16.14 | 0.041115 | |
| | 2462 | 13.21 | | 13.76 | 0.023768 | | 16.75 | 0.047315 | |
| 802.11n-HT40 | 2422 | 10.94 | 0.71 | 10.94 | 0.012417 | | 13.93 | 0.024717 | |
| | 2427 | 11.03 | | 11.03 | 0.012677 | | 14.02 | 0.025235 | |
| | 2437 | 14.28 | | 14.28 | 0.026792 | | 17.27 | 0.053333 | |
| | 2447 | 11.48 | | 11.48 | 0.014060 | | 14.47 | 0.027990 | |
| | 2452 | 11.35 | | 11.35 | 0.013646 | | 14.34 | 0.027164 | |

Note: The results have been included cable loss.

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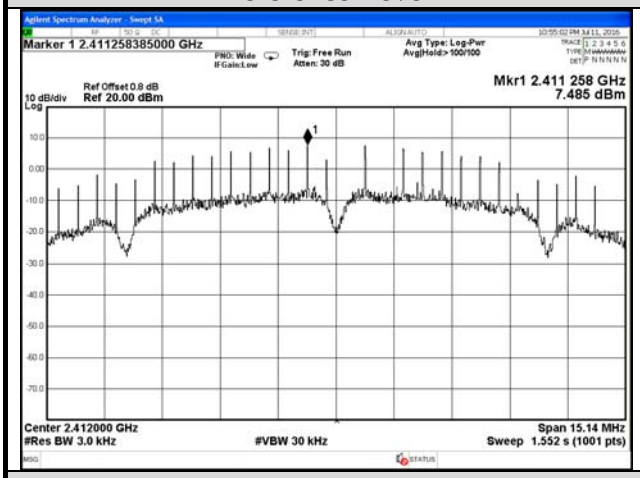
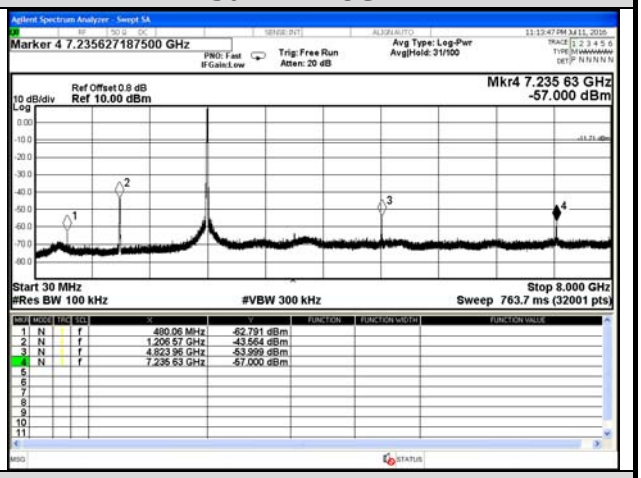
# A.3 EMISSION LIMITATIONS MEASUREMENT

| | | | |
|---|---|---|---|
| Test Date | 2016/07/11 | Temp./Hum. | 26℃/58% |
| Cable Loss | 0.8dB | Test Voltage | AC 120V, 60Hz |
| Mode | 802.11b | Frequency | TX 2412MHz |
| Simultaneous Factor10 log(n) (Note: “n” is antenna number) | | | N/A |

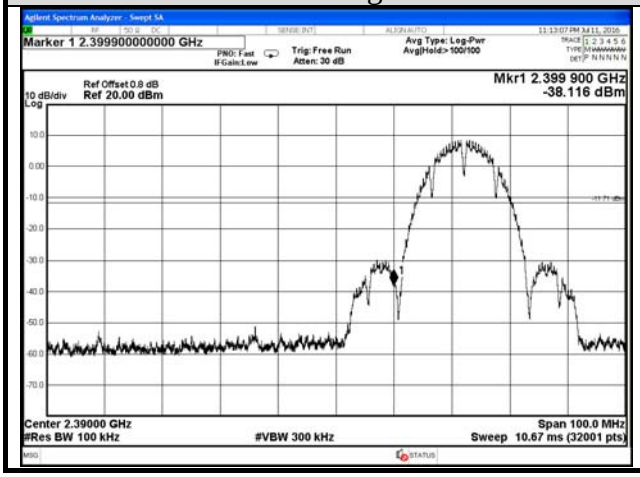
Reference Level



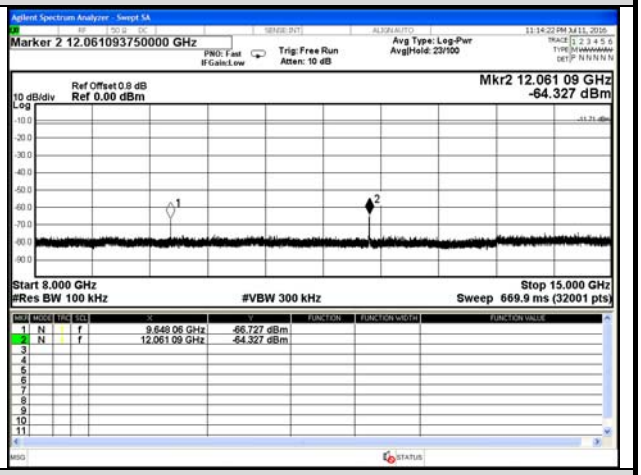

30MHz – 8GHz



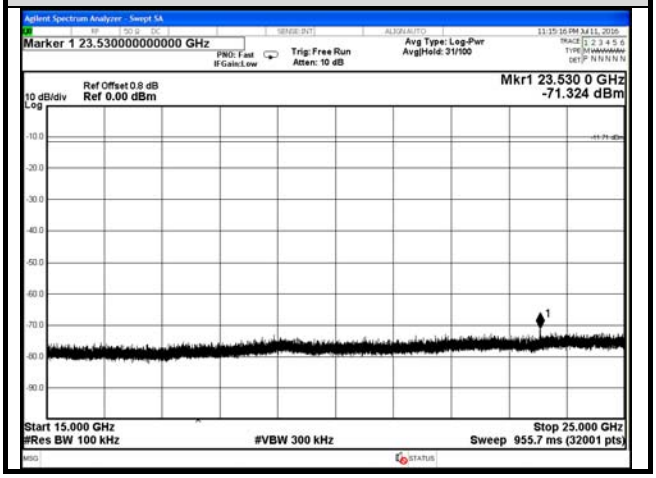

Band Edge




8GHz – 15GHz




15GHz – 25GHz



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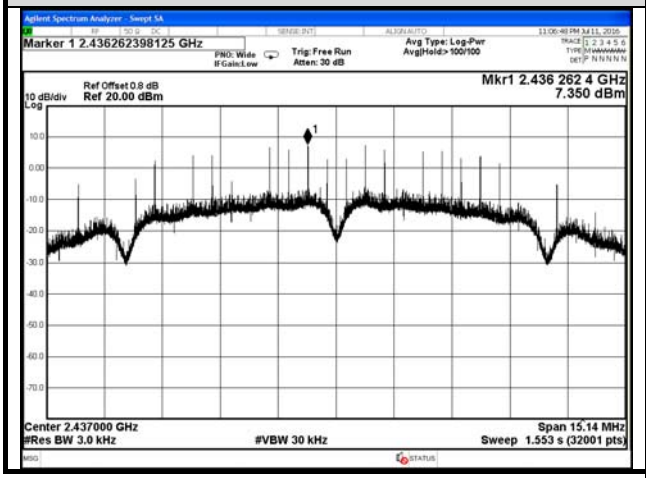
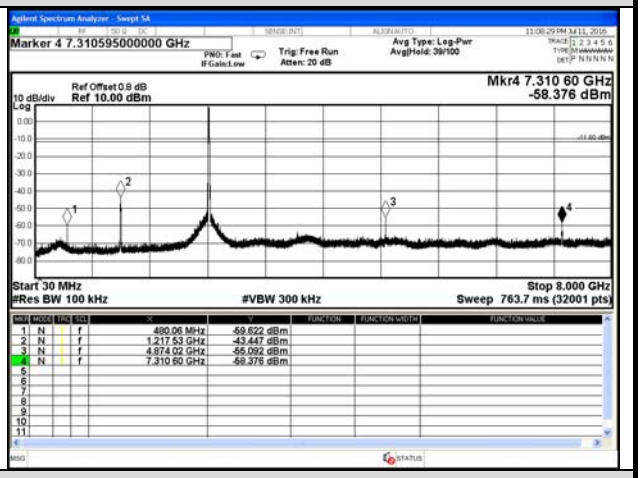
| | | | |
|---|---|---|---|
| Test Date | 2016/07/11 | Temp./Hum. | 26℃/58% |
| Cable Loss | 0.8dB | Test Voltage | AC 120V, 60Hz |
| Mode | 802.11b | Frequency | TX 2437MHz |
| Simultaneous Factor10 log(n) (Note: “n” is antenna number) | | | N/A |

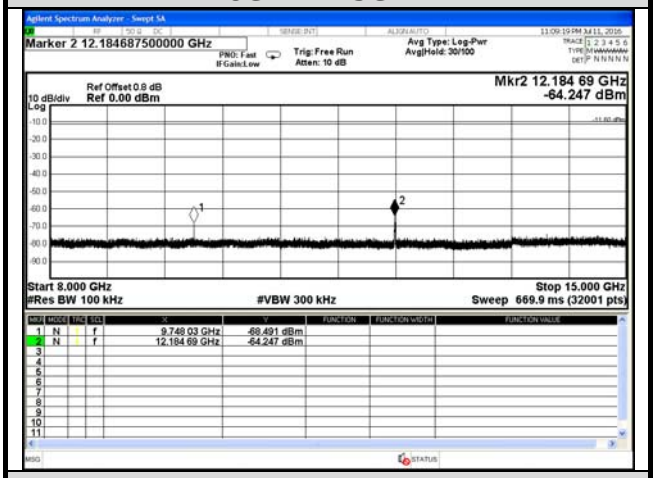
Reference Level



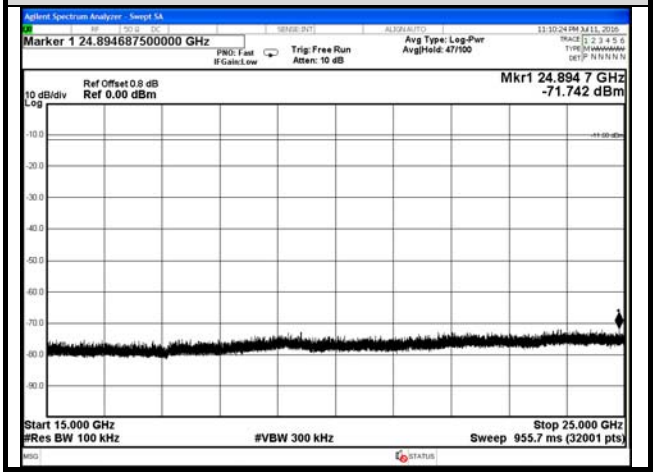

30MHz – 8GHz




8GHz – 15GHz




15GHz – 25GHz



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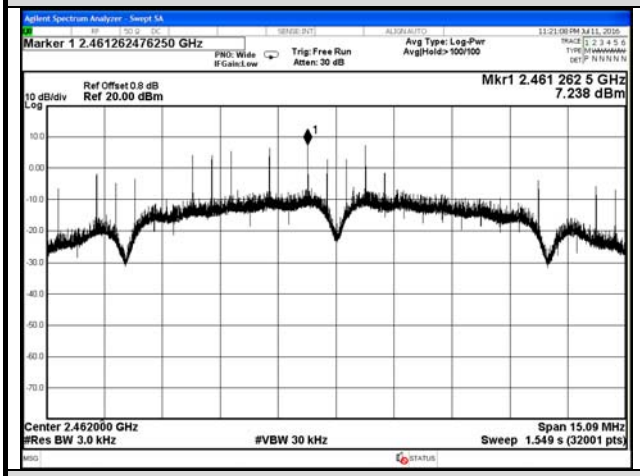
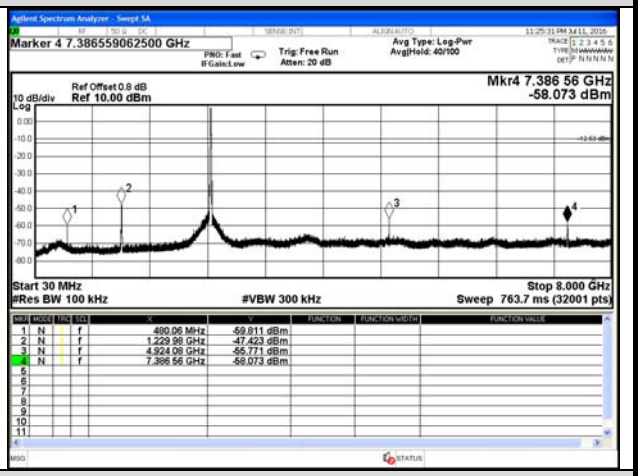
| | | | |
|---|---|---|---|
| Test Date | 2016/07/11 | Temp./Hum. | 26℃/58% |
| Cable Loss | 0.8dB | Test Voltage | AC 120V, 60Hz |
| Mode | 802.11b | Frequency | TX 2462MHz |
| Simultaneous Factor10 log(n) (Note: “n” is antenna number) | | | N/A |

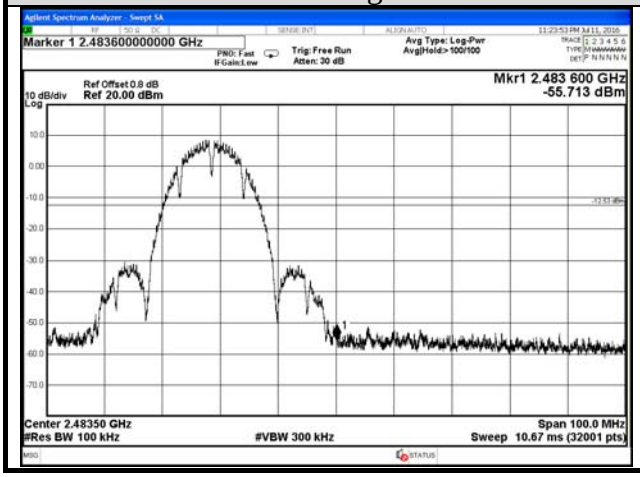
Reference Level



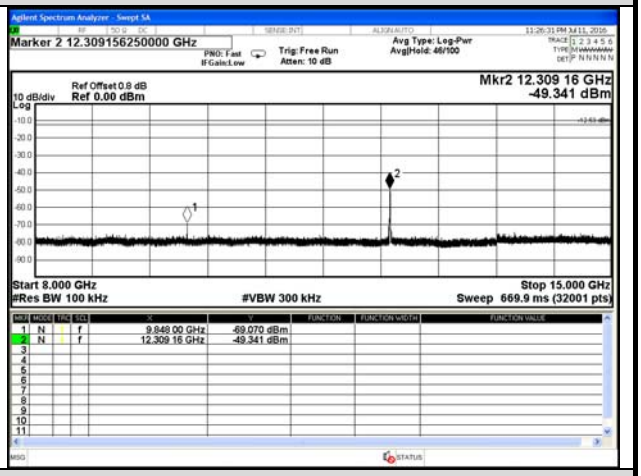

30MHz – 8GHz



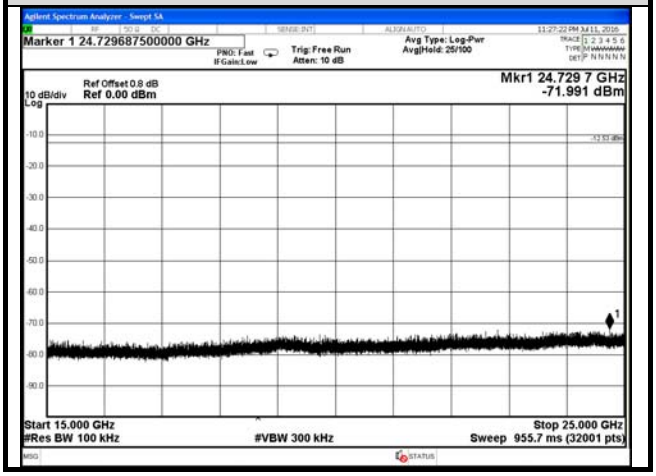

Band Edge




8GHz – 15GHz




15GHz – 25GHz



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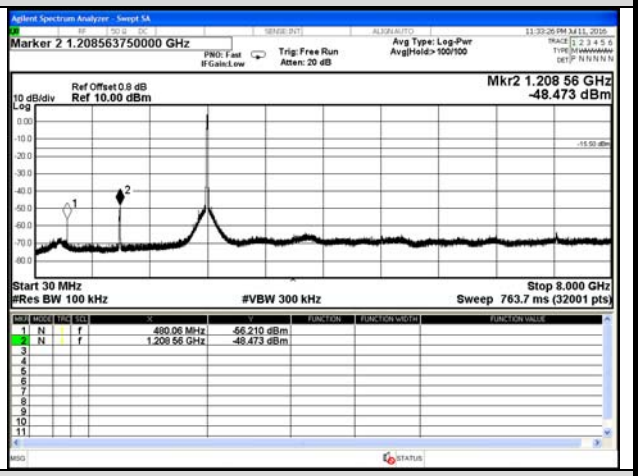
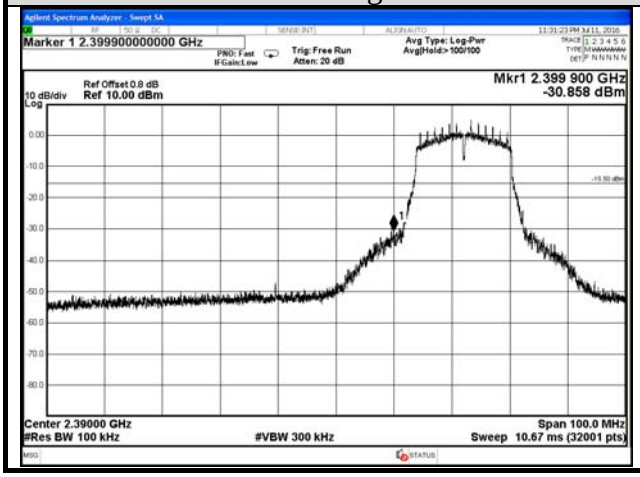
| | | | |
|---|---|---|---|
| Test Date | 2016/07/11 | Temp./Hum. | 26℃/58% |
| Cable Loss | 0.8dB | Test Voltage | AC 120V, 60Hz |
| Mode | 802.11g | Frequency | TX 2412MHz |
| Simultaneous Factor10 log(n) (Note: “n” is antenna number) | | | N/A |

Reference Level

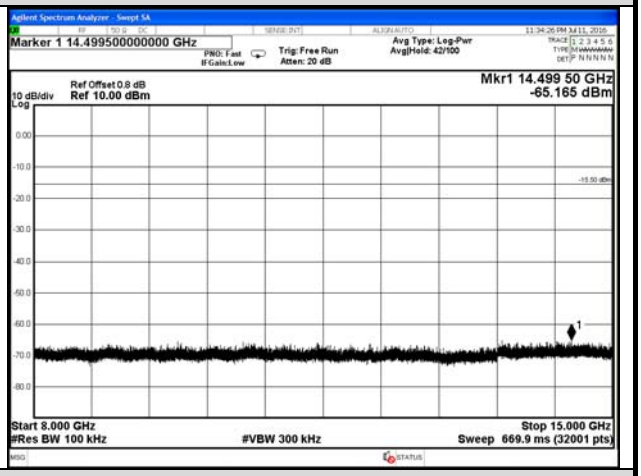

30MHz – 8GHz



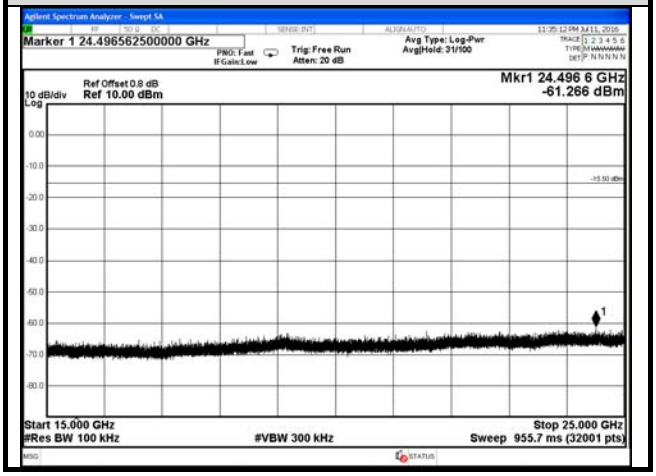

Band Edge




8GHz – 15GHz




15GHz – 25GHz



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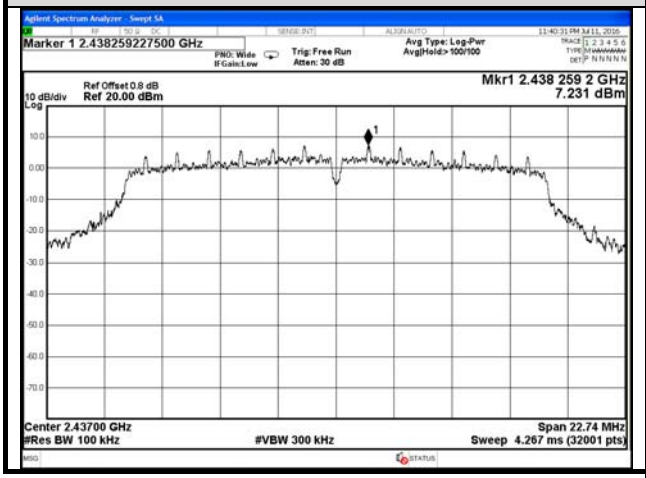
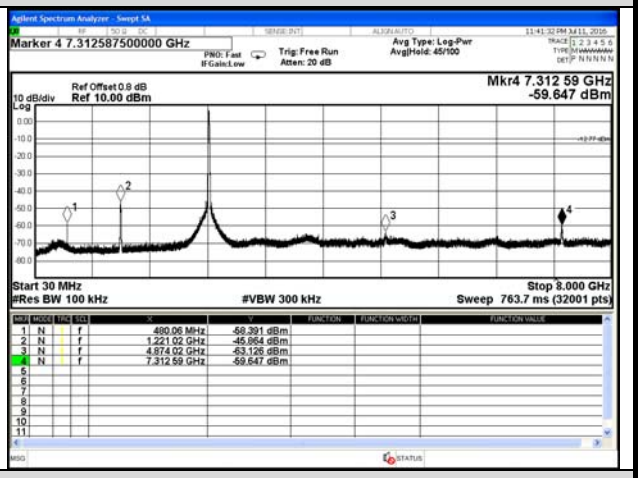
| | | | |
|---|---|---|---|
| Test Date | 2016/06/03 | Temp./Hum. | 26℃/58% |
| Cable Loss | 0.8dB | Test Voltage | AC 120V, 60Hz |
| Mode | 802.11g | Frequency | TX 2437MHz |
| Simultaneous Factor10 log(n) (Note: “n” is antenna number) | | | N/A |

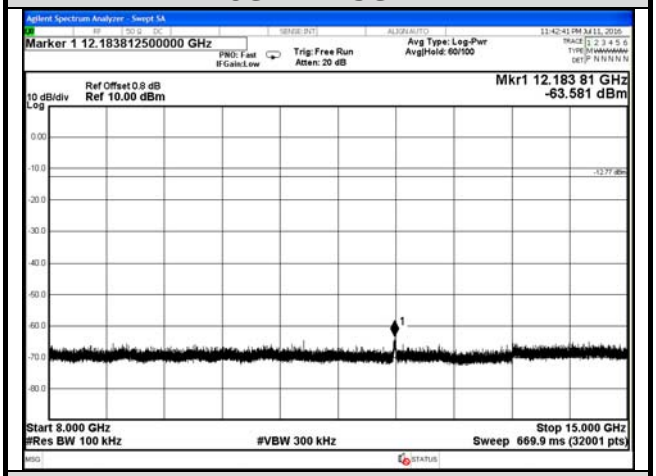
Reference Level



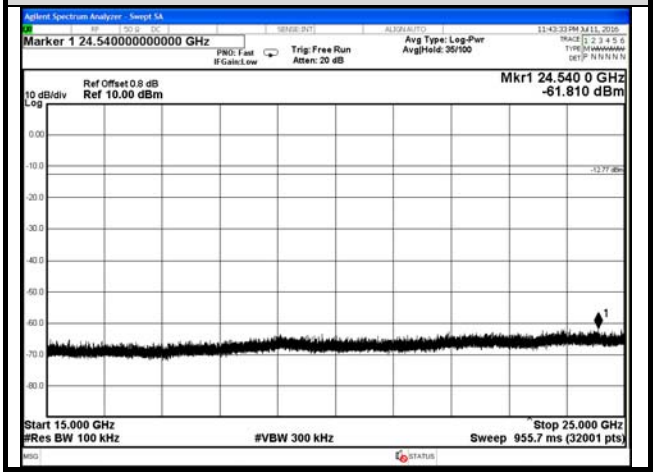

30MHz – 8GHz




8GHz – 15GHz




15GHz – 25GHz



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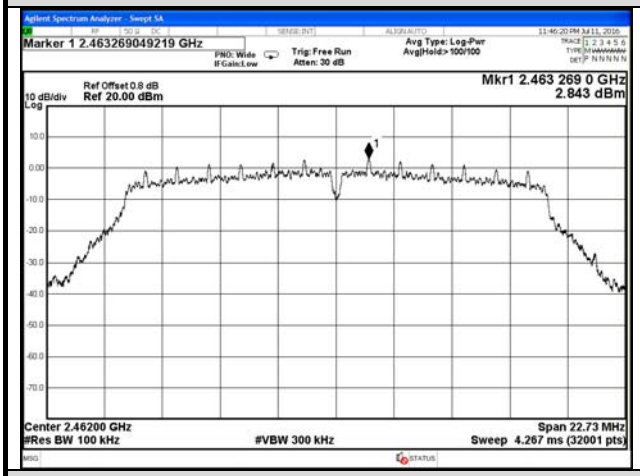
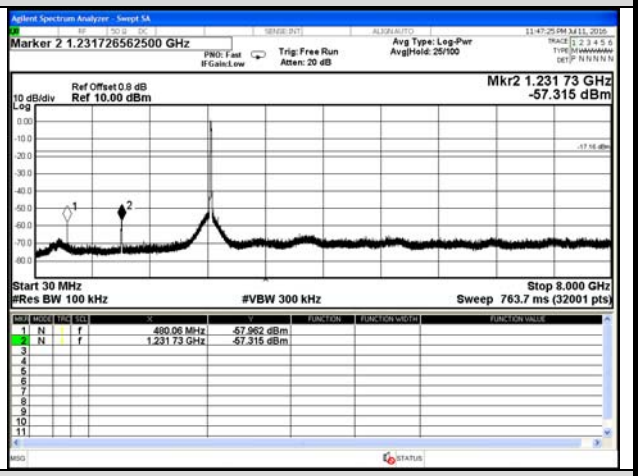
| | | | |
|---|---|---|---|
| Test Date | 2016/07/11 | Temp./Hum. | 26℃/58% |
| Cable Loss | 0.8dB | Test Voltage | AC 120V, 60Hz |
| Mode | 802.11g | Frequency | TX 2462MHz |
| Simultaneous Factor10 log(n) (Note: “n” is antenna number) | | | N/A |

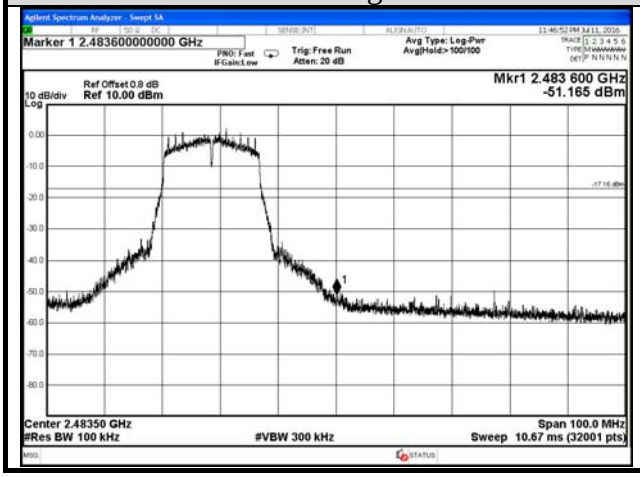
Reference Level



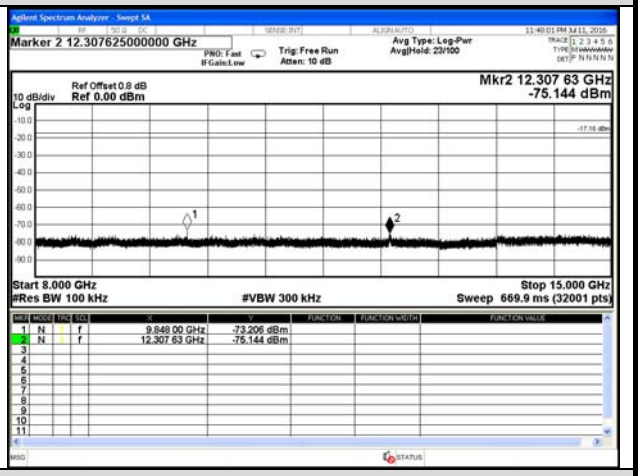

30MHz – 8GHz



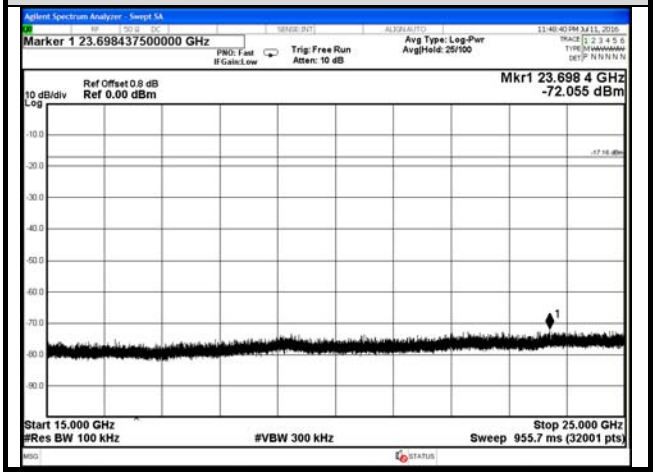

Band Edge




8GHz – 15GHz




15GHz – 25GHz



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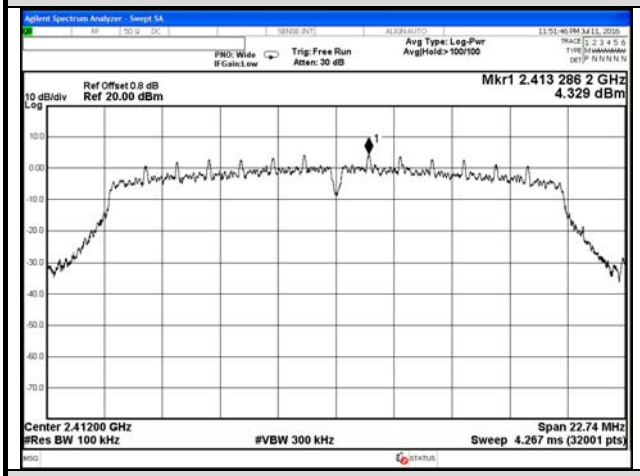
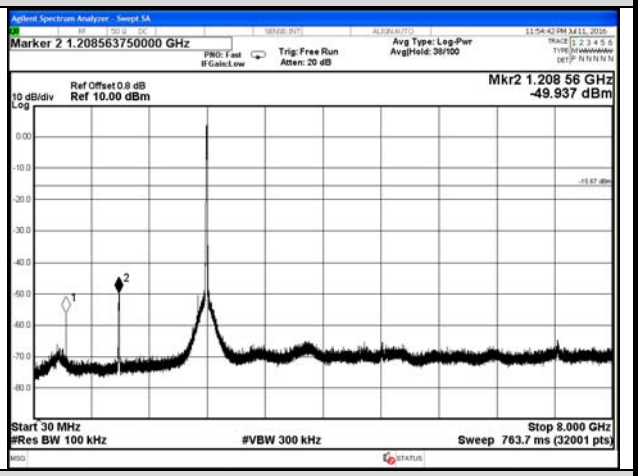
| | | | |
|---|---|---|---|
| Test Date | 2016/07/11 | Temp./Hum. | 26℃/58% |
| Cable Loss | 0.8dB | Test Voltage | AC 120V, 60Hz |
| Mode | 802.11n-HT20 | Frequency | TX 2412MHz |
| Simultaneous Factor10 log(n) (Note: “n” is antenna number) | | | N/A |

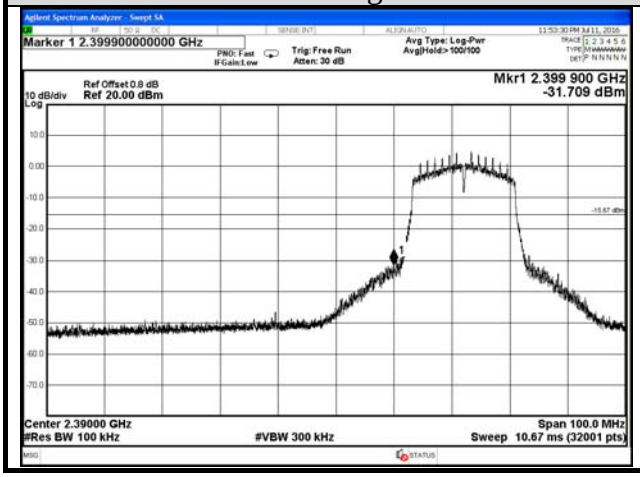
Reference Level



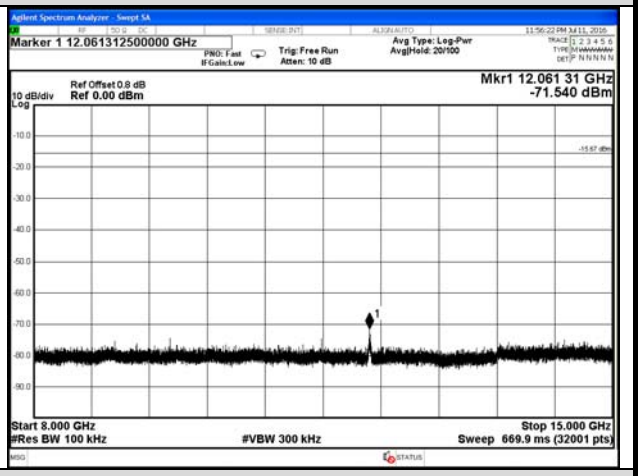

30MHz – 8GHz



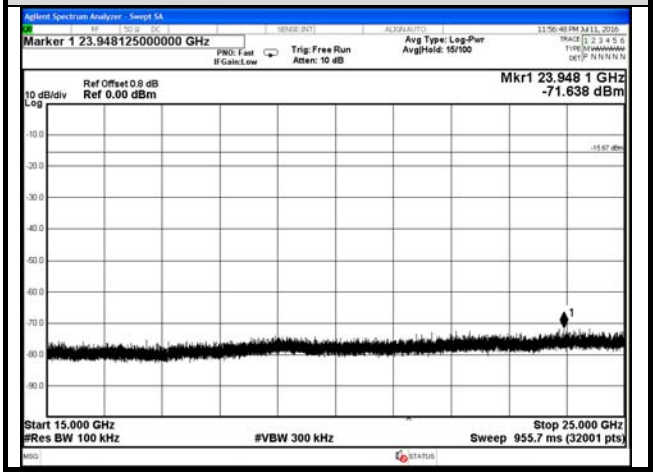

Band Edge




8GHz – 15GHz




15GHz – 25GHz



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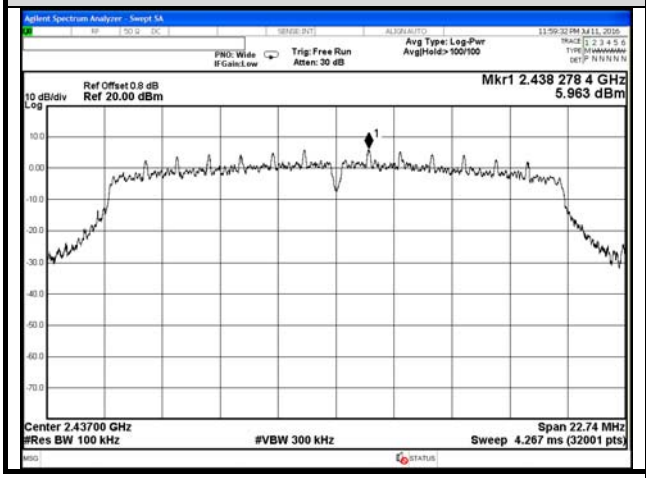
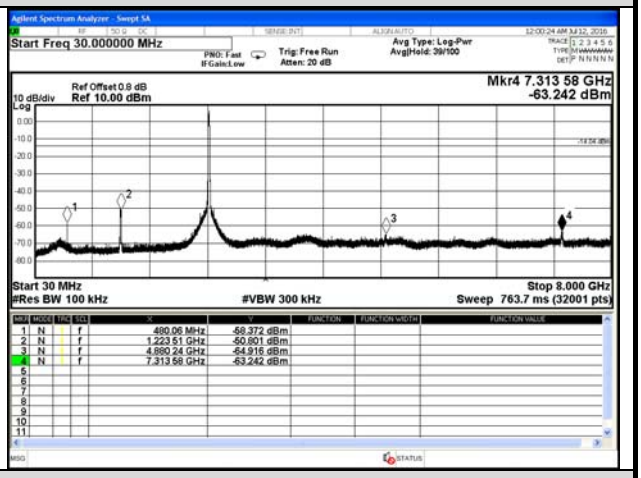
| | | | |
|---|---|---|---|
| Test Date | 2016/06/03 | Temp./Hum. | 26℃/55% |
| Cable Loss | 0.8dB | Test Voltage | AC 120V, 60Hz |
| Mode | 802.11n-HT20 | Frequency | TX 2437MHz |
| Simultaneous Factor10 log(n) (Note: “n” is antenna number) | | | N/A |

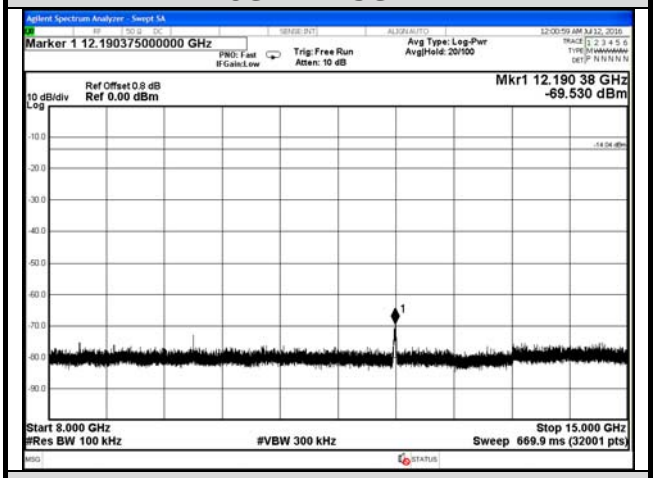
Reference Level



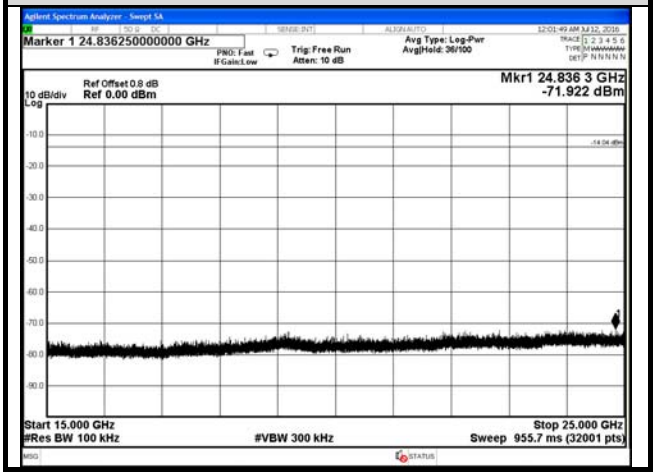

30MHz – 8GHz




8GHz – 15GHz




15GHz – 25GHz



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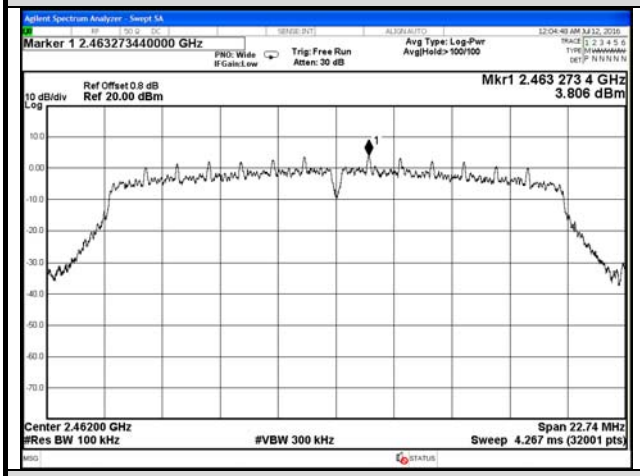
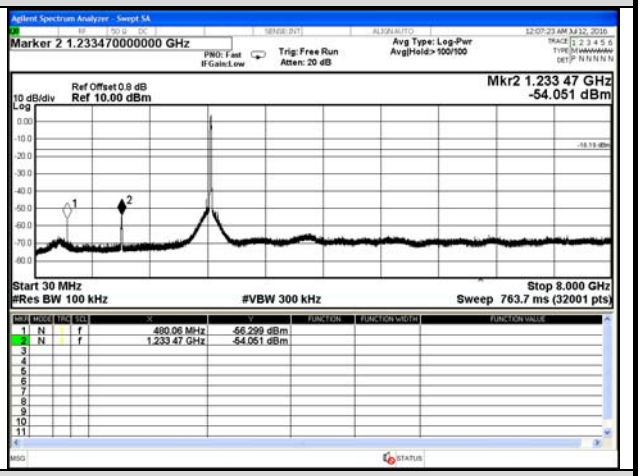
| | | | |
|---|---|---|---|
| Test Date | 2016/07/11 | Temp./Hum. | 26℃/58% |
| Cable Loss | 0.8dB | Test Voltage | AC 120V, 60Hz |
| Mode | 802.11n-HT20 | Frequency | TX 2462MHz |
| Simultaneous Factor10 log(n) (Note: “n” is antenna number) | | | N/A |

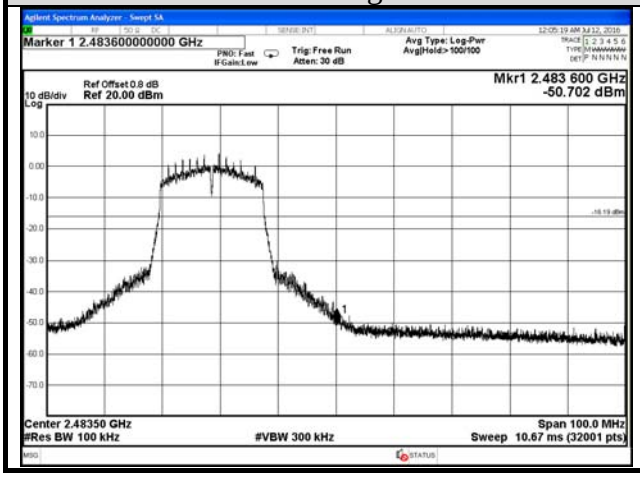
Reference Level



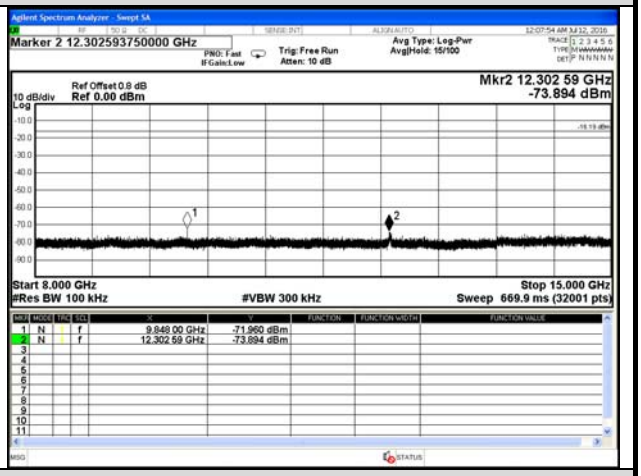

30MHz – 8GHz



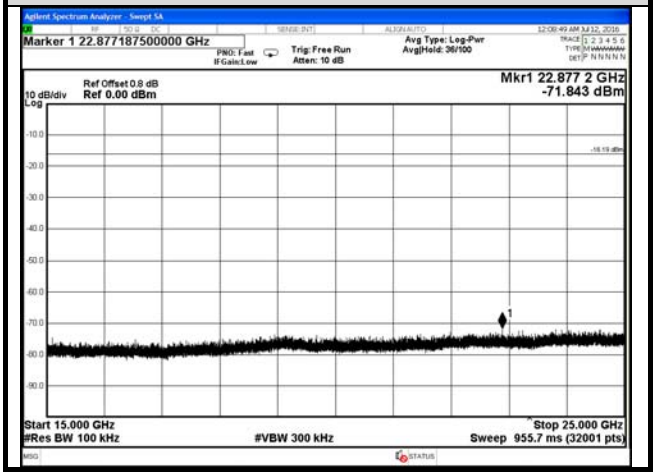

Band Edge




8GHz – 15GHz




15GHz – 25GHz



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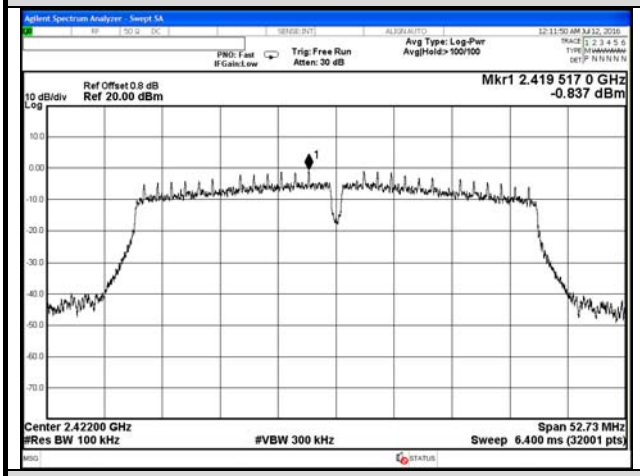
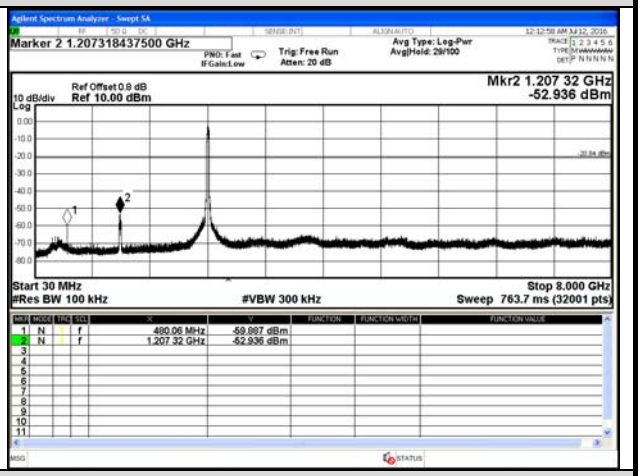
| | | | |
|---|---|---|---|
| Test Date | 2016/07/11~12 | Temp./Hum. | 26℃/58% |
| Cable Loss | 0.8dB | Test Voltage | AC 120V, 60Hz |
| Mode | 802.11n-HT40 | Frequency | TX 2422MHz |
| Simultaneous Factor10 log(n) (Note: “n” is antenna number) | | | N/A |

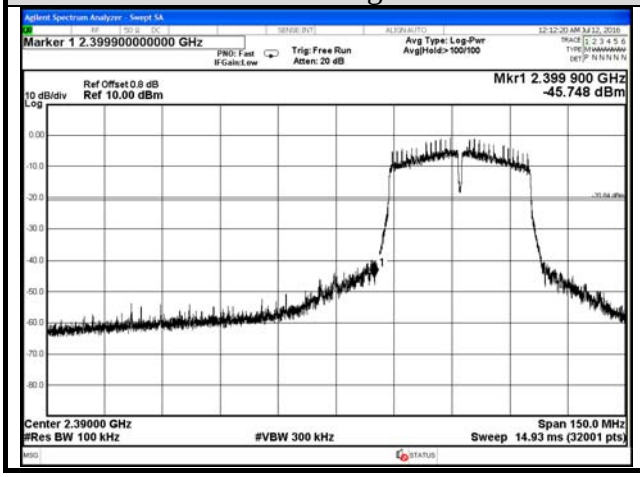
Reference Level



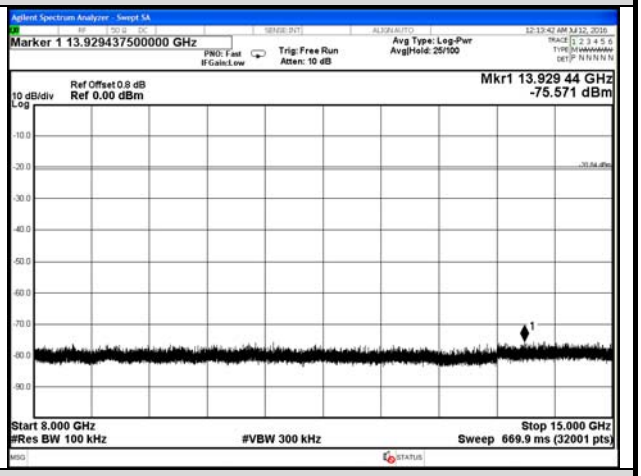

30MHz – 8GHz



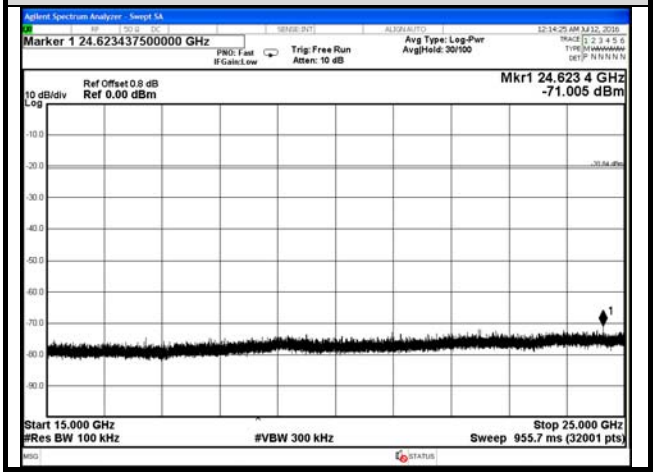

Band Edge




8GHz – 15GHz




15GHz – 25GHz



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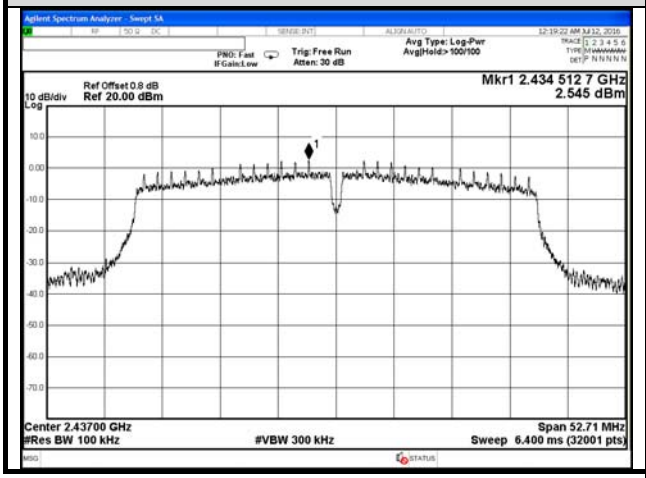
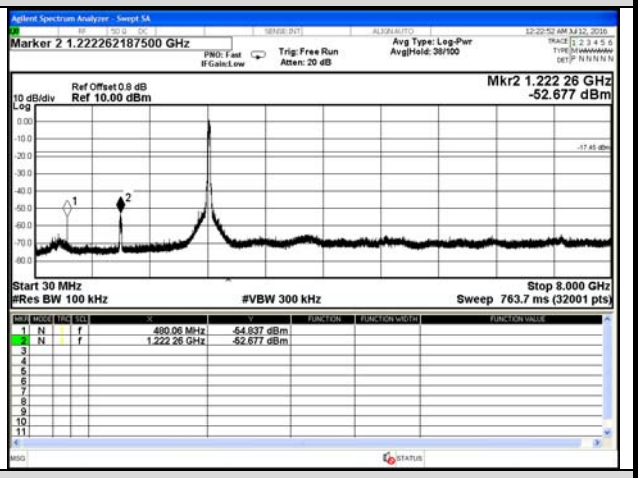
| | | | |
|---|---|---|---|
| Test Date | 2016/07/11~12 | Temp./Hum. | 26℃/58% |
| Cable Loss | 0.8dB | Test Voltage | AC 120V, 60Hz |
| Mode | 802.11n-HT40 | Frequency | TX 2437MHz |
| Simultaneous Factor10 log(n) (Note: “n” is antenna number) | | | N/A |

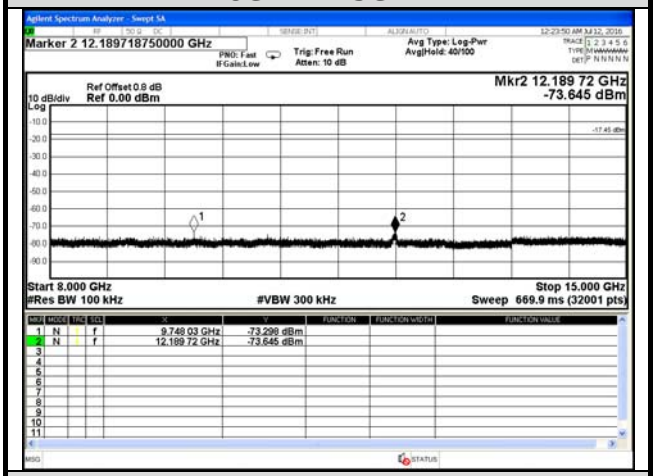
Reference Level



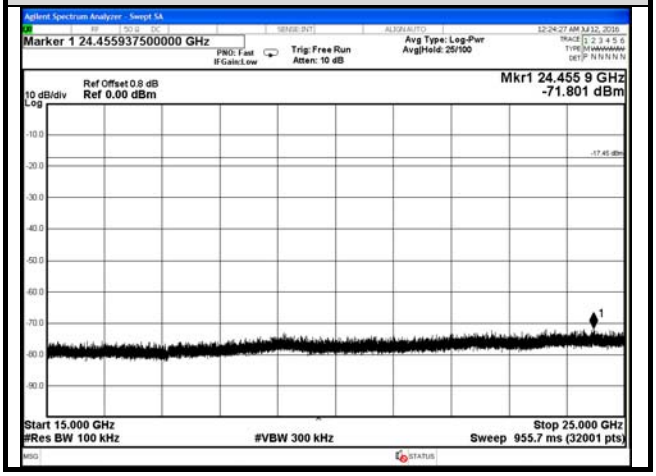

30MHz – 8GHz




8GHz – 15GHz




15GHz – 25GHz



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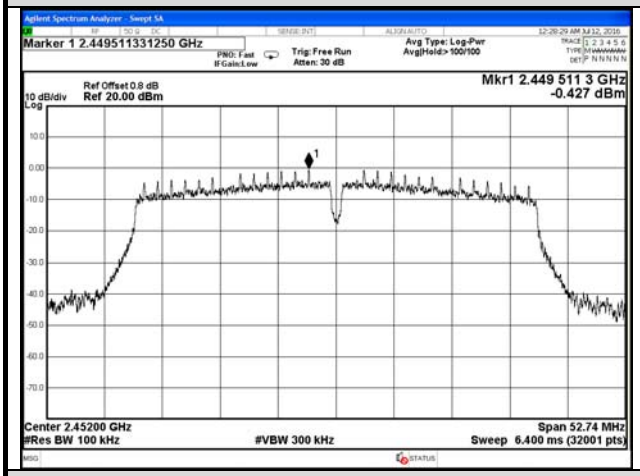
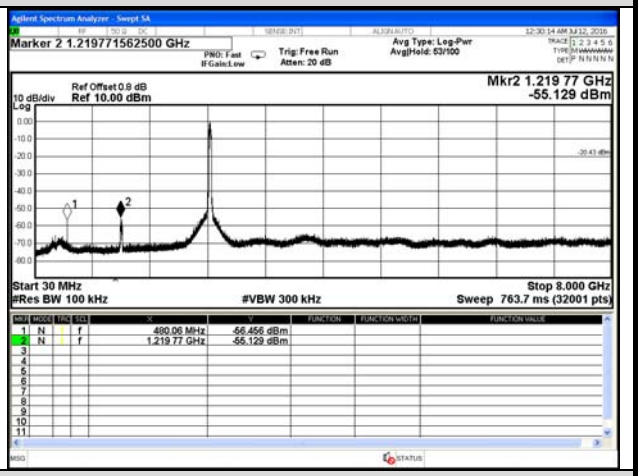
| | | | |
|---|---|---|---|
| Test Date | 2016/07/11~12 | Temp./Hum. | 26℃/58% |
| Cable Loss | 0.8dB | Test Voltage | AC 120V, 60Hz |
| Mode | 802.11n-HT40 | Frequency | TX 2452MHz |
| Simultaneous Factor10 log(n) (Note: “n” is antenna number) | | | N/A |

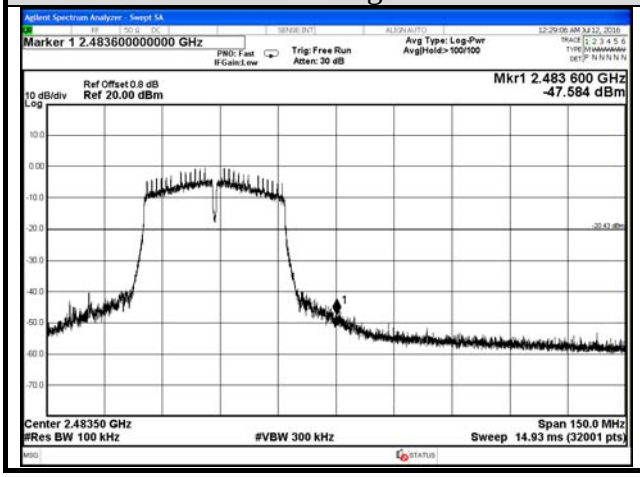
Reference Level



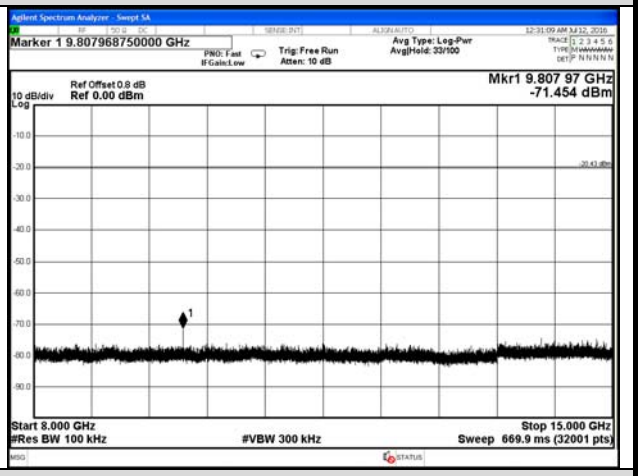

30MHz – 8GHz



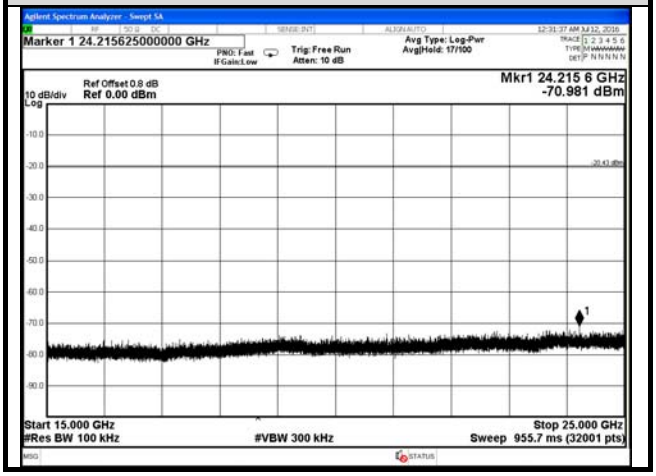

Band Edge




8GHz – 15GHz




15GHz – 25GHz



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# A.4 POWER SPECTRAL DENSITY

| | | | |
|---|---|---|---|
| Test Date | 2016/07/11~12 | Temp./Hum. | 26℃/58% |
| Cable Loss | 0.8dB | Test Voltage | AC 120V, 60Hz |
| Simultaneous Factor10 log(n) (Note: “n” is antenna number) | | | N/A |

A.4.1 Power Spectral Density Result

| Modulation Type | Centre Frequency (MHz) | Power Spectral Density (dBm) | Limit |
|---|---|---|---|
| 802.11b | 2412 | **7.485** | < 8 dBm/3kHz |
| | 2437 | **7.350** | |
| | 2462 | **7.238** | |
| 802.11g | 2412 | **4.487** | |
| | 2437 | **7.231** | |
| | 2462 | **2.843** | |
| 802.11n-HT20 | 2412 | **4.329** | |
| | 2437 | **5.963** | |
| | 2462 | **3.806** | |
| 802.11n-HT40 | 2422 | **-0.837** | |
| | 2437 | **2.545** | |
| | 2452 | **-0.427** | |

Note: All results have been included cable loss and Simultaneous Factor.

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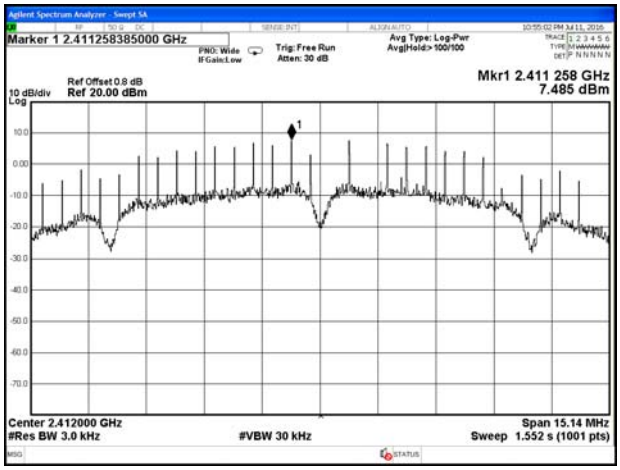
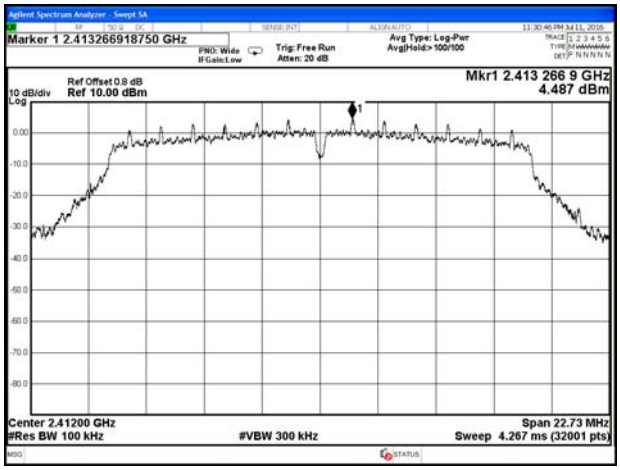
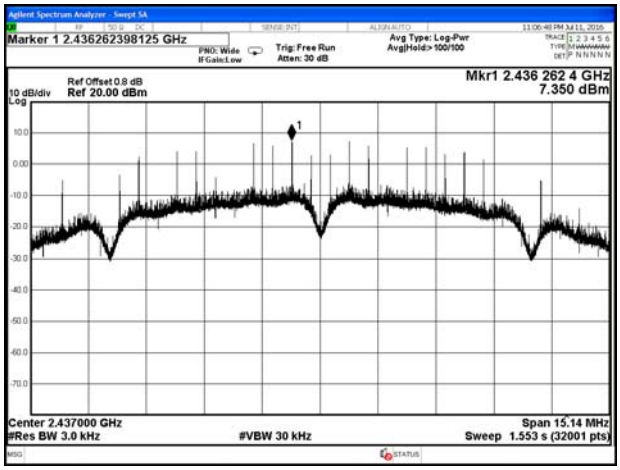
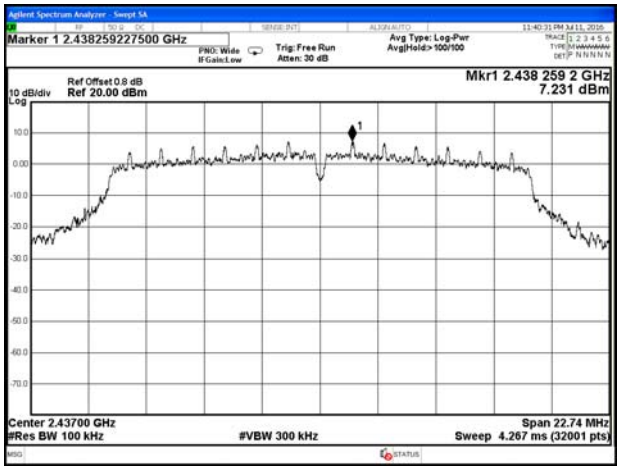
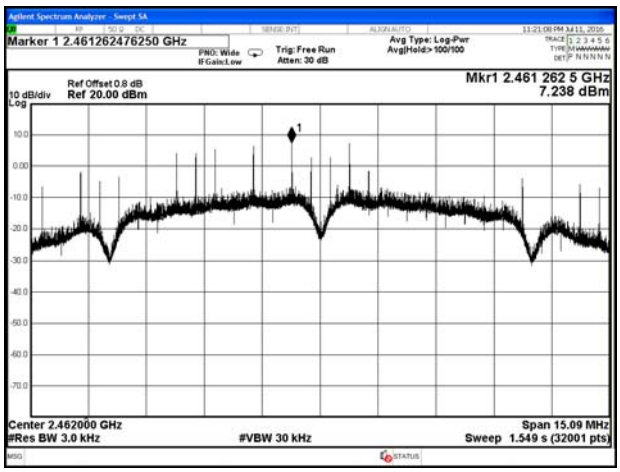
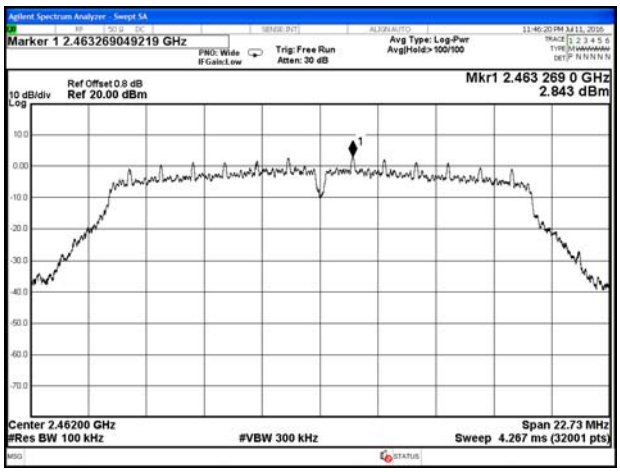
## A.4.2 Measurement Plots

| 802.11b | 802.11g |
|---|---|
|  |  |
|  |  |
|  |  |

Note: All results have been included cable loss and Simultaneous Factor.

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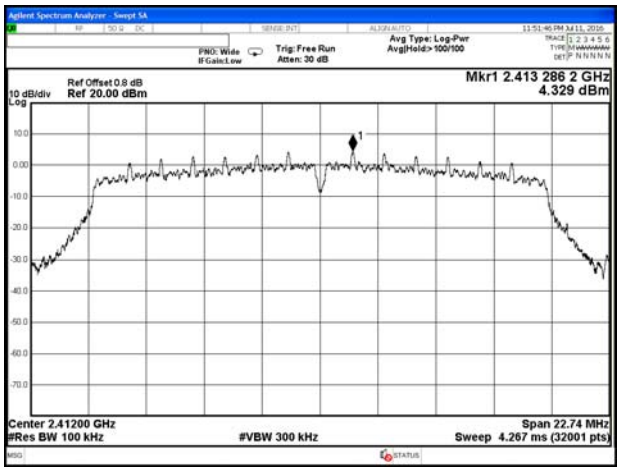
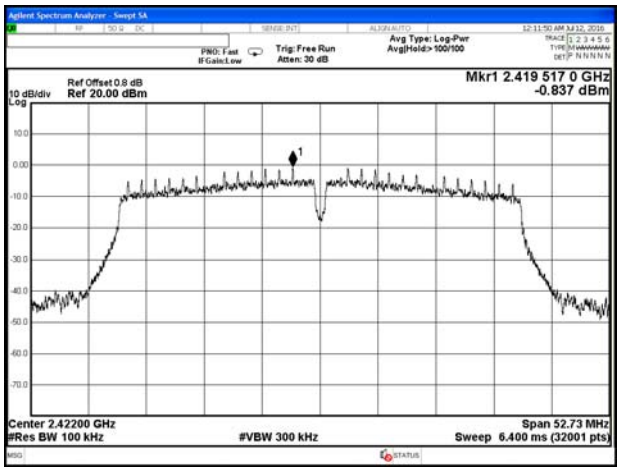
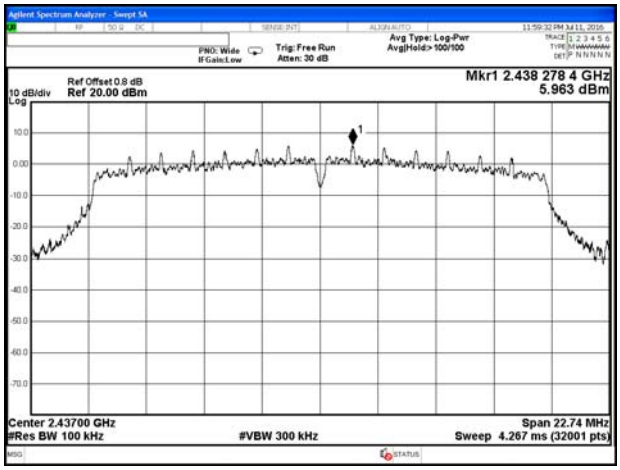
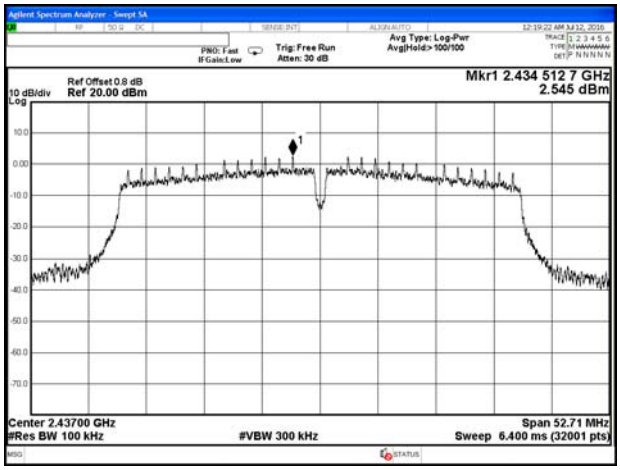
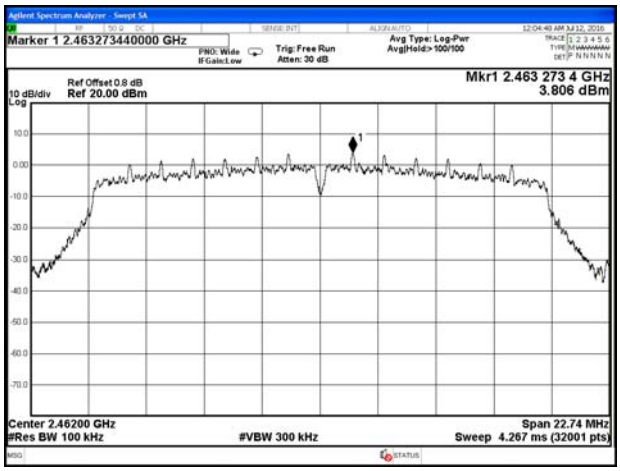
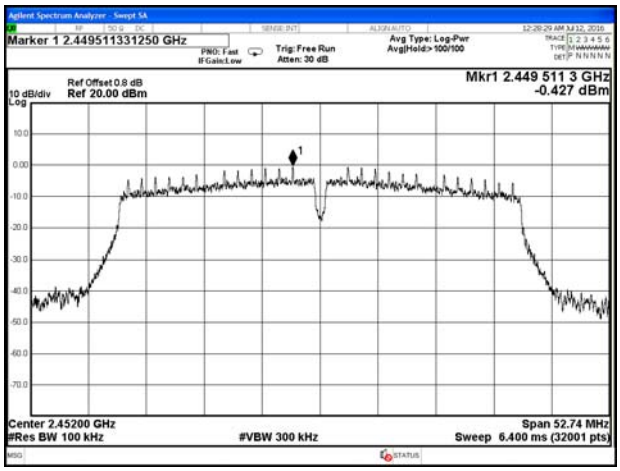
| 802.11n-HT20 | 802.11n-HT40 |
|---|---|
|  |  |
|  |  |
|  |  |

Note: All results have been included cable loss and Simultaneous Factor.