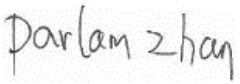
# TEST REPORT

| | |
|---|---|
| **Application No.:** | SHCR2503000535ME |
| **FCC ID:** | OU5MULW01 |
| **Applicant:** | GE Medical Systems Information Technologies, Inc. |
| **Address of Applicant:** | 3114 N Grandview Blvd Waukesha, WI 53188, USA |
| **Manufacturer:** | GE Medical Systems Information Technologies, Inc. |
| **Address of Manufacturer:** | 3114 N Grandview Blvd Waukesha, WI 53188, USA |
| **Equipment Under Test (EUT):** | |
| **EUT Name:** | WLAN Module |
| **Model No.:** | WLANCSMOD |
| **Trade Mark:** | GE HealthCare |
| **Standard(s) :** | 47 CFR Part 15, Subpart C 15.247 |
| | RSS-247 Issue 3, August 2023 |
| | RSS-Gen Issue 5 Amendment 2 (February 2021) |
| **Date of Receipt:** | 2025-03-12 |
| **Date of Test:** | 2025-03-13 to 2025-04-14 |
| **Date of Issue:** | 2025-04-15 |
| **Test Result:** | **Pass*** |

* In the configuration tested, the EUT complied with the standards specified above.

| Revision Record | | | |
|---|---|---|---|
| **Version** | **Description** | **Date** | **Remark** |
| 00 | Original | 2025-04-15 | / |
| | | | |
| | | | |

| | | | | |
|---|---|---|---|---|
| **Authorized for issue by:** | | | | |
| **Tested By** | |  **Wade Zhang/Project Engineer** | | |
| **Approved By** | |  **Parlam Zhan / Reviewer** | | |

# 2 Test Summary

| Radio Spectrum Matter Part | | | | |
|---|---|---|---|---|
| **Item** | **FCC Requirement** | **IC Requirement** | **Method** | **Result** |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.205 & 15.209 | RSS-247 Section 3.3 & RSS-Gen Section 8.9 | ANSI C63.10 (2013) Section 6.10.5 | Pass |
| Radiated Spurious Emissions Below 1GHz | 47 CFR Part 15, Subpart C 15.205 & 15.209 | RSS-247 Section 3.3 & RSS-Gen Section 8.9 | ANSI C63.10 (2013) Section 6.4,6.5 | Pass |
| Radiated Spurious Emissions Above 1GHz | 47 CFR Part 15, Subpart C 15.205 & 15.209 | RSS-247 Section 3.3 & RSS-Gen Section 8.9 | ANSI C63.10 (2013) Section 6.6 | Pass |

Remark: New optional BT&WIFI antenna(s) changed to the original module, Radiated Spurious Emission tests were performed to verify RF compliance, other test data reference to original module report KSCR241000206803.

# 3 Contents

# 4 General Information

## 4.1 Details of E.U.T.

| | |
|---|---|
| Power supply: | DC 3.3V |
| Test voltage: | DC 3.3V |
| Operation Frequency: | 802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz |
| Modulation Type: | 802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Number of Channels: | 802.11b/g/n(HT20):11;802.11n(HT40):7 |
| Channel Spacing: | 5MHz |
| Antenna Type: | FPC Antenna |
| Antenna Gain: | Ant 1: 4.43dBi; Ant 2: 2.14dBi (Provided by manufacturer) |
| Remark: | n20: MIMO; Other: SISO |
| Antenna Number: | 2 |

## 4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|---|---|---|---|
| PC | GE | - | - |

## 4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|---|---|---|
| 1 | Radio Frequency | $8.4 \times 10^{-8}$ |
| 2 | Timeout | 2s |
| 3 | Duty cycle | 0.4% |
| 4 | Occupied Bandwidth | 3% |
| 5 | RF conducted power | 0.6dB |
| 6 | RF power density | 2.9dB |
| 7 | Conducted Spurious emissions | 0.75dB |
| 8 | RF Radiated power | 5.2dB (Below 1GHz) |
| | | 5.9dB (Above 1GHz) |
| 9 | Radiated Spurious emission test | 4.2dB (Below 30MHz) |
| | | 4.5dB (30MHz-1GHz) |
| | | 5.1dB (1GHz-6GHz) |
| | | 5.4dB (6GHz-18GHz) |
| 10 | Temperature test | 1°C |
| 11 | Humidity test | 3% |
| 12 | Supply voltages | 1.5% |
| 13 | Time | 3% |

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 4.4 Test Location

All tests were performed at:
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China
Tel: +86 21 6191 5666 Fax: +86 21 6191 5678
No tests were sub-contracted.
Note:
1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc ) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).
3. Sample source: sent by customer.

## 4.5 Test Facility

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

**• A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

**• FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

**• ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.
Company Number: 8617A

**• VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None

# 5 Equipment List

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|---|---|---|---|---|---|
| **RF Conducted Test** | | | | | |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2024/12/18 | 2025-12-17 |
| Spectrum Analyzer | Keysight | N9020B | SHEM241-1 | 2024/12/18 | 2025-12-17 |
| Spectrum Analyzer | Agilent | N9020A | SHEM181-1 | 2024-07-31 | 2025-07-30 |
| Signal Generator | R&S | SMR20 | SHEM006-1 | 2024-07-31 | 2025-07-30 |
| Signal Generator | Agilent | N5182A | SHEM182-1 | 2024-07-31 | 2025-07-30 |
| Communication Tester | R&S | CMW270 | SHEM183-1 | 2024-05-23 | 2025-05-22 |
| Communication Tester | R&S | CMW500 | SHEM268-1 | 2024-05-23 | 2025-05-22 |
| Power Sensor | Keysight | U2021XA * 4 | SHEM293-1 | 2024-07-31 | 2025-07-30 |
| Splitter | Anritsu | MA1612A | SHEM185-1 | / | / |
| Coupler | e-meca | 803-S-1 | SHEM186-1 | / | / |
| High-low Temp Cabinet | Suzhou Zhihe | TL-40 | SHEM087-1 | 2024-11-05 | 2026-11-04 |
| AC Power Stabilizer | APC | KDF-31020T-V0-F0 | SHEM216-1 | 2024/12/18 | 2025-12-17 |
| DC Power Supply | HP | 6010A | SHEM222-1 | 2024/12/18 | 2025-12-17 |
| Conducted test Cable | / | RF01~RF04 | / | 2024/12/18 | 2025-12-17 |
| Switcher | Tonscend | JS0806 | SHEM293-1 | 2024-07-31 | 2025-07-30 |
| Test software | Tonscend | JS Tonscend BT/WIFI System | Version: 2.6 | / | / |
| Switcher+Power Sensor | TST | TSPS2023R | SHEM263-1 | 2024-07-31 | 2025-07-30 |
| Test software | TST | TST PASS | Version: 2.0 | / | / |
| **RF Radiated Test** | | | | | |
| EMI test Receiver | R&S | ESU40 | SHEM051-1 | 2024/12/18 | 2025-12-17 |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2024/12/18 | 2025-12-17 |
| Communication Tester | R&S | CMW500 | SHEM268-1 | 2024-05-23 | 2025-05-22 |
| Loop Antenna (9kHz-30MHz) | Schwarzbeck | FMZB1519 | SHEM135-1 | 2024/12/18 | 2025-12-17 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM048-1 | 2023-09-03 | 2025-09-02 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM202-1 | 2023-04-17 | 2025-04-16 |
| Horn Antenna (1-18GHz) | Schwarzbeck | HF906 | SHEM009-1 | 2024-08-05 | 2026-08-04 |
| Horn Antenna (1-18GHz) | Schwarzbeck | BBHA9120D | SHEM050-1 | 2023-09-03 | 2025-09-02 |
| Horn Antenna (14-40GHz) | Schwarzbeck | BBHA 9170 | SHEM049-1 | 2023-09-03 | 2025-09-02 |
| Pre-Amplifier | HP | 8447D | SHEM236-1 | 2024/12/18 | 2025-12-17 |
| High-amplifier (14-40GHz) | Schwarzbeck | 10001 | SHEM049-2 | 2024/12/18 | 2025-12-17 |
| Band Filter | LORCH | 9BRX-875/X150 | SHEM156-1 | / | / |
| Band Filter | LORCH | 13BRX-1950/X500 | SHEM083-2 | / | / |
| Band Filter | LORCH | 5BRX-2400/X200 | SHEM155-1 | / | / |
| Band Filter | LORCH | 5BRX-5500/X1000 | SHEM157-2 | / | / |
| High pass Filter | Wainwright | WHK3.0/18G | SHEM157-1 | / | / |
| High pass Filter | Wainwright | WHKS1700 | SHEM157-3 | / | / |
| Semi/Fully Anechoic | ST | 11*6*6M | SHEM078-2 | 2023-05-06 | 2026-05-05 |
| RE test Cable | / | PT18-NMNM-10M | SHEM217-2 | 2024/12/18 | 2025-12-17 |
| Test software | ESE | E3 | Version: 6.111221a | / | / |

# 6 Radio Spectrum Matter Test Results

## 6.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.10.5
Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|---|---|---|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |
| Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. | | |

### 6.1.1 E.U.T. Operation

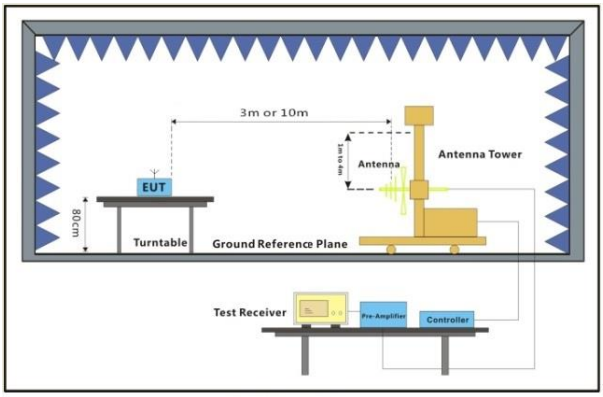
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

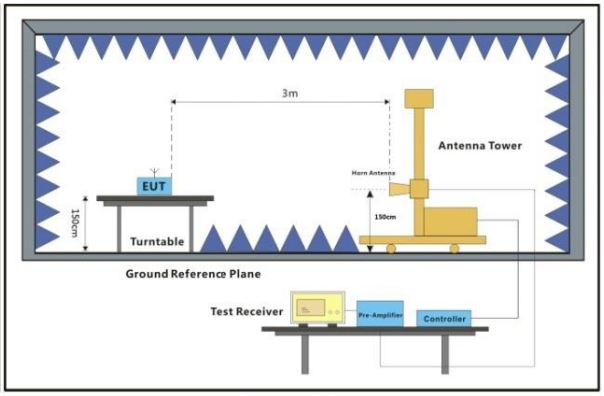
### 6.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 02 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

### 6.1.3 Test Setup Diagram




30MHz-1GHz




Above 1GHz

### 6.1.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

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

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

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

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

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

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

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

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

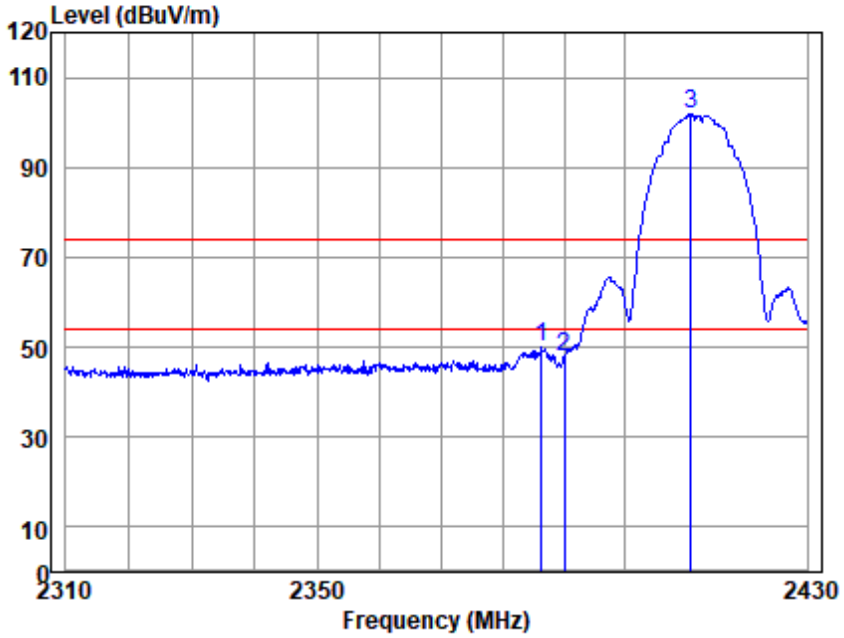
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geqslant$1/T (Duty cycle$<$98%) or 10Hz (Duty cycle$\geqslant$98%) for Average detection (AV) at frequency above 1GHz.

Remark 5: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for 802.11b/g/n40 modulation and MIMO antenna operation for 802.11n20 modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.

Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

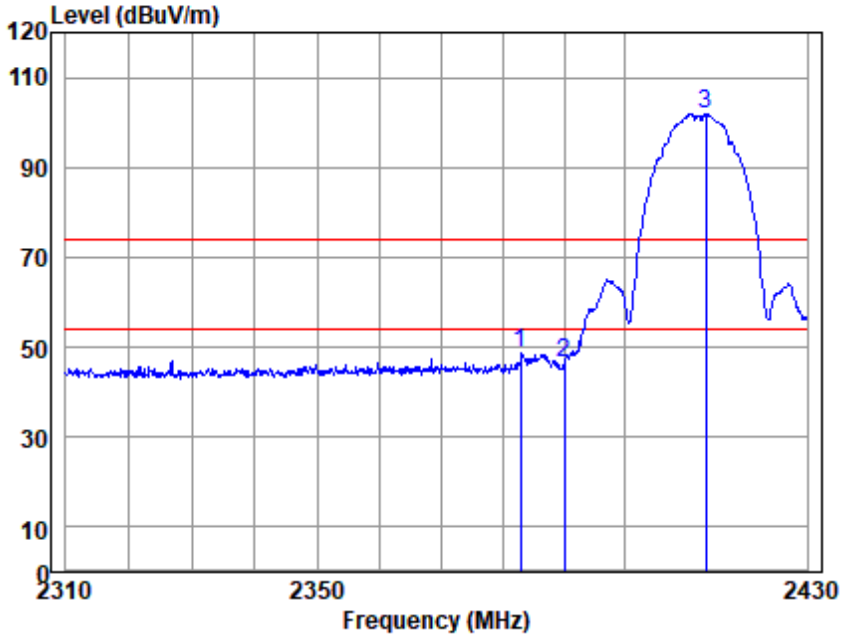



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2386.340 | 52.98 | 28.80 | 3.33 | 35.18 | 49.93 | 74.00 | -24.07 | Peak |
| 2390.000 | 50.75 | 28.80 | 3.33 | 35.18 | 47.70 | 74.00 | -26.30 | Peak |
| 2410.756 | 104.69 | 28.89 | 3.34 | 35.20 | 101.72 | 74.00 | 27.72 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

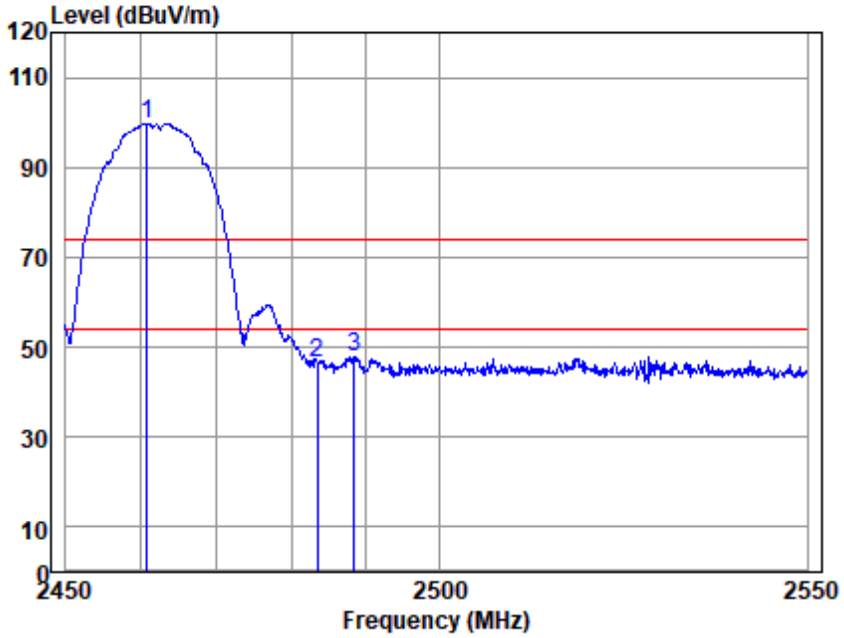



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2382.958 | 51.84 | 28.76 | 3.32 | 35.17 | 48.75 | 74.00 | -25.25 | Peak |
| 2390.000 | 49.59 | 28.80 | 3.33 | 35.18 | 46.54 | 74.00 | -27.46 | Peak |
| 2413.321 | 104.73 | 28.90 | 3.35 | 35.20 | 101.78 | 74.00 | 27.78 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

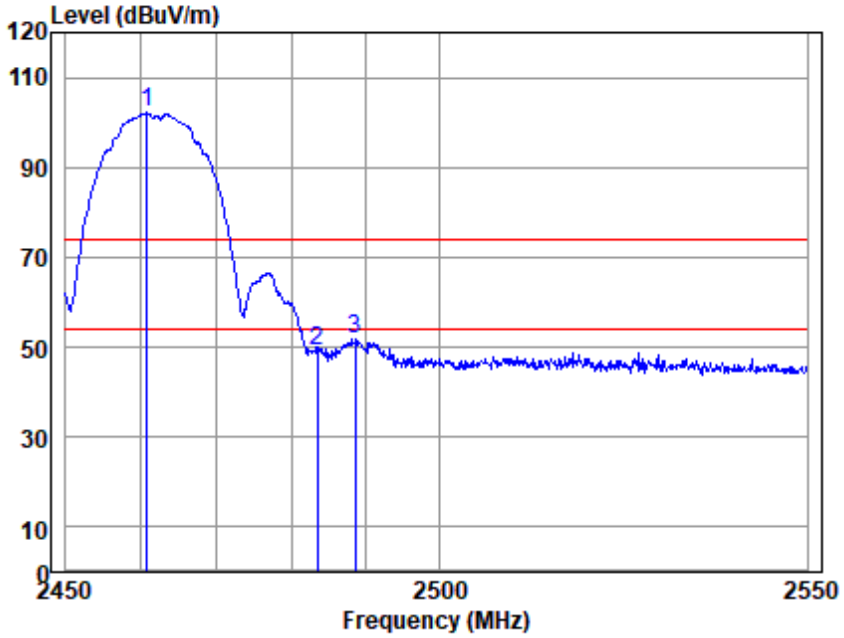



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2460.707 | 102.60 | 29.05 | 3.39 | 35.24 | 99.80 | 74.00 | 25.80 | Peak |
| 2483.500 | 49.31 | 29.09 | 3.41 | 35.26 | 46.55 | 74.00 | -27.45 | Peak |
| 2488.425 | 50.67 | 29.09 | 3.41 | 35.26 | 47.91 | 74.00 | -26.09 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

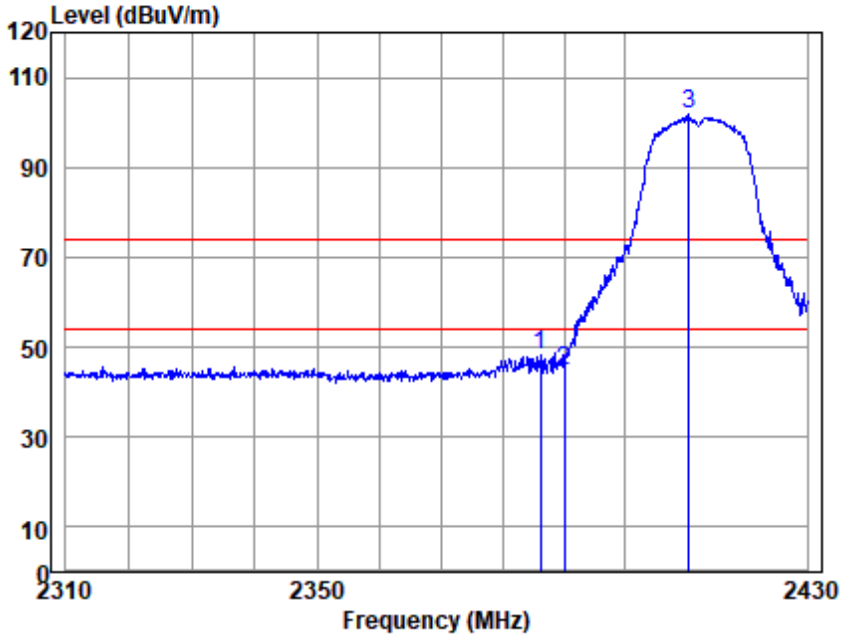



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2460.707 | 104.88 | 29.05 | 3.39 | 35.24 | 102.08 | 74.00 | 28.08 | Peak |
| 2483.500 | 51.80 | 29.09 | 3.41 | 35.26 | 49.04 | 74.00 | -24.96 | Peak |
| 2488.625 | 54.45 | 29.09 | 3.41 | 35.26 | 51.69 | 74.00 | -22.31 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

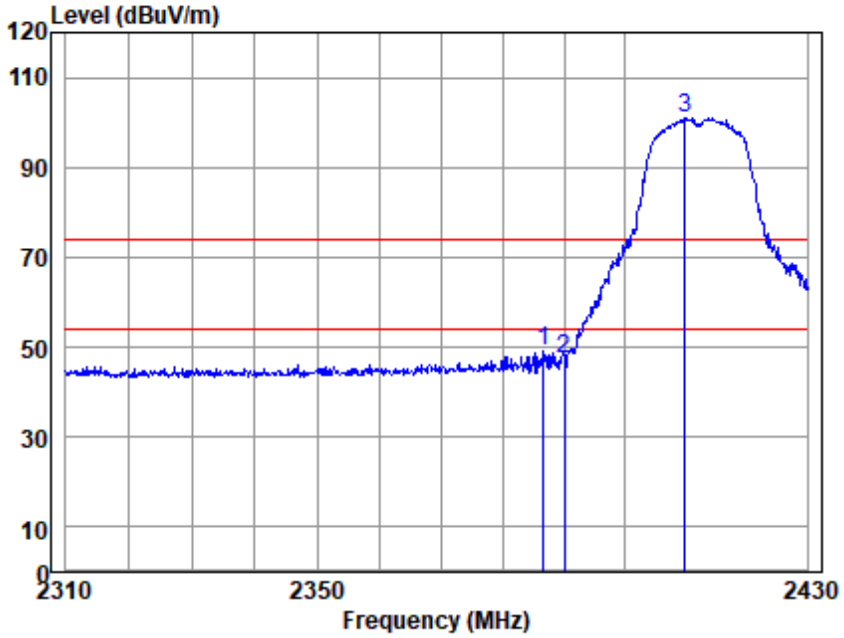



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2386.219 | 51.27 | 28.80 | 3.33 | 35.18 | 48.22 | 74.00 | -25.78 | Peak |
| 2390.000 | 47.62 | 28.80 | 3.33 | 35.18 | 44.57 | 74.00 | -29.43 | Peak |
| 2410.389 | 104.93 | 28.89 | 3.34 | 35.20 | 101.96 | 74.00 | 27.96 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

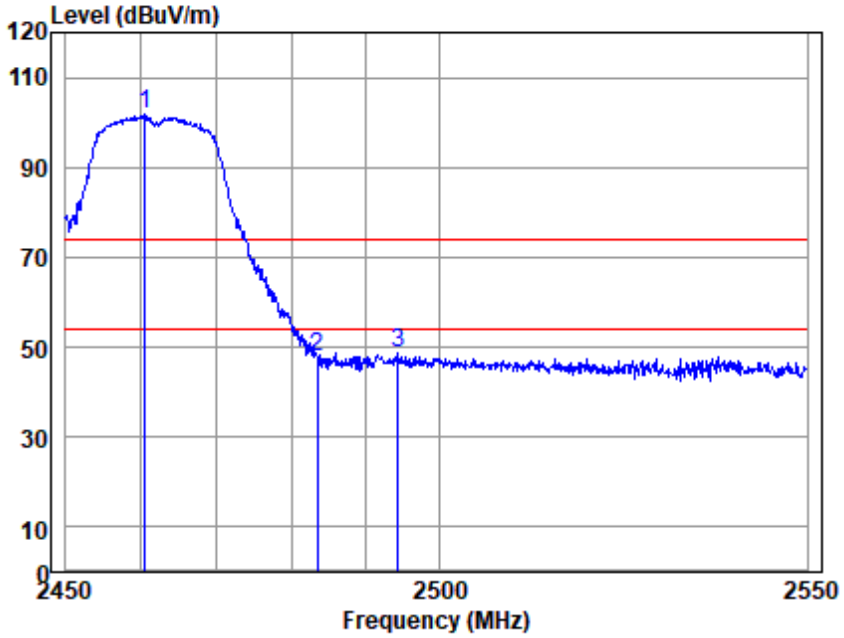



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2386.703 | 52.13 | 28.80 | 3.33 | 35.18 | 49.08 | 74.00 | -24.92 | Peak |
| 2390.000 | 50.44 | 28.80 | 3.33 | 35.18 | 47.39 | 74.00 | -26.61 | Peak |
| 2409.779 | 104.07 | 28.89 | 3.34 | 35.20 | 101.10 | 74.00 | 27.10 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High

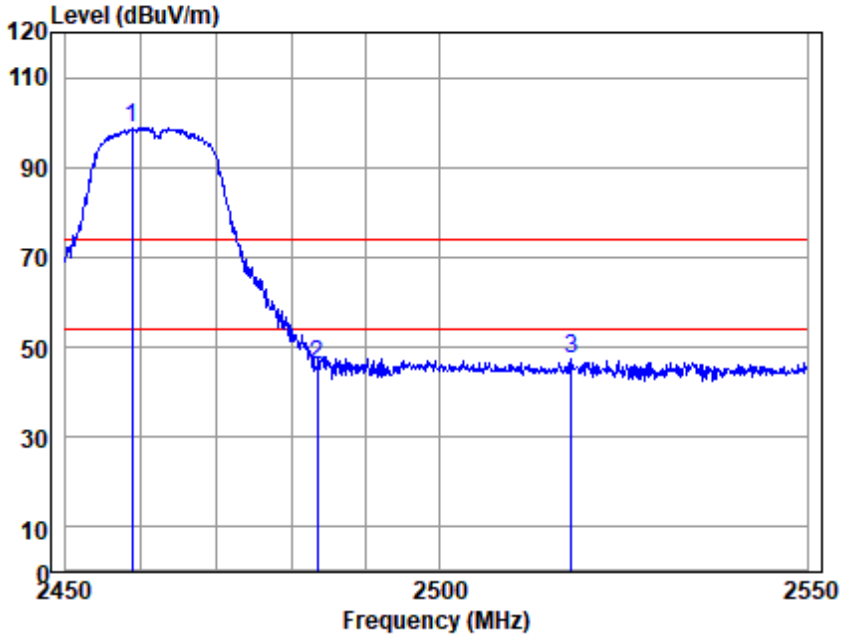



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2460.510 | 104.49 | 29.05 | 3.39 | 35.24 | 101.69 | 74.00 | 27.69 | Peak |
| 2483.500 | 50.56 | 29.09 | 3.41 | 35.26 | 47.80 | 74.00 | -26.20 | Peak |
| 2494.306 | 51.31 | 29.10 | 3.41 | 35.26 | 48.56 | 74.00 | -25.44 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High

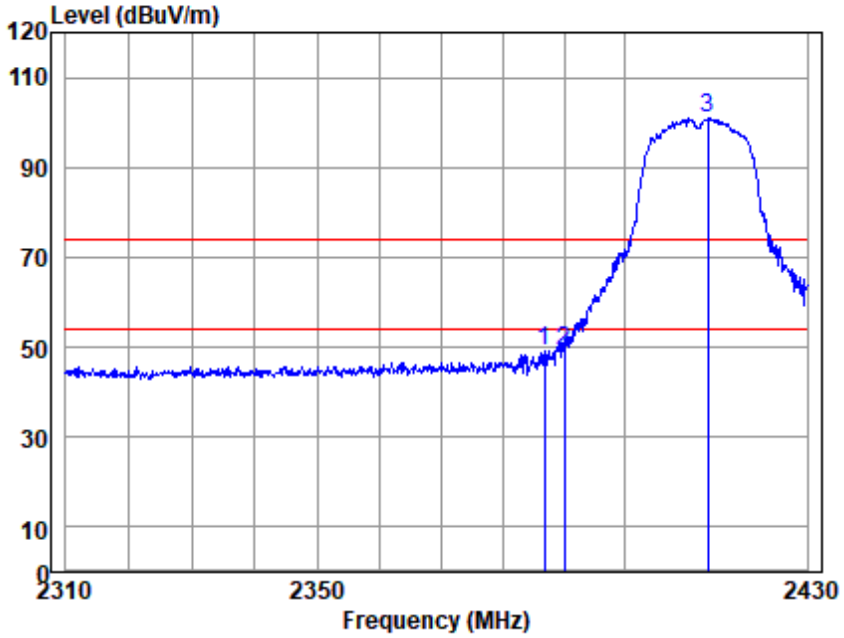



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2458.739 | 101.63 | 29.04 | 3.38 | 35.24 | 98.81 | 74.00 | 24.81 | Peak |
| 2483.500 | 48.83 | 29.09 | 3.41 | 35.26 | 46.07 | 74.00 | -27.93 | Peak |
| 2517.765 | 50.29 | 29.13 | 3.43 | 35.29 | 47.56 | 74.00 | -26.44 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

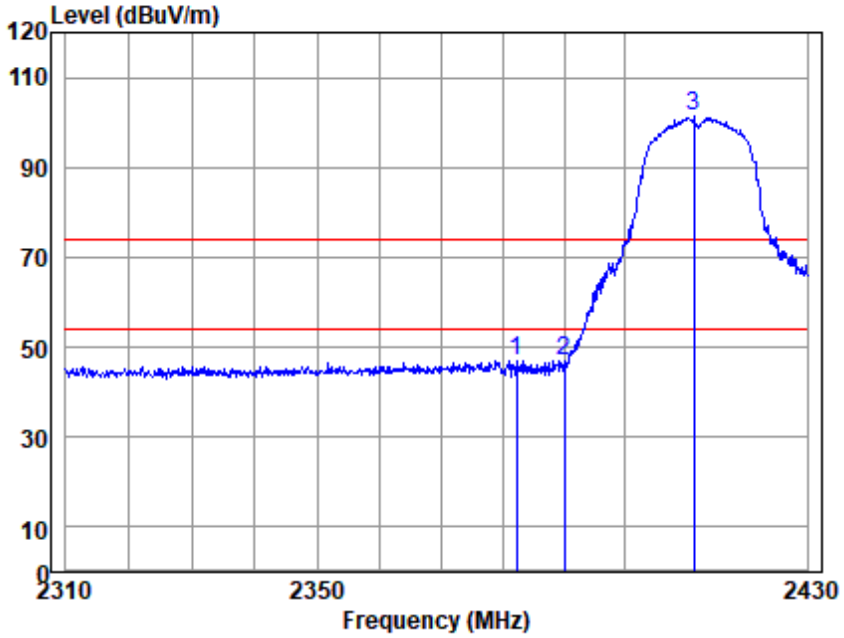



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2386.823 | 52.37 | 28.80 | 3.33 | 35.18 | 49.32 | 74.00 | -24.68 | Peak |
| 2390.000 | 52.15 | 28.80 | 3.33 | 35.18 | 49.10 | 74.00 | -24.90 | Peak |
| 2413.565 | 103.89 | 28.90 | 3.35 | 35.20 | 100.94 | 74.00 | 26.94 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

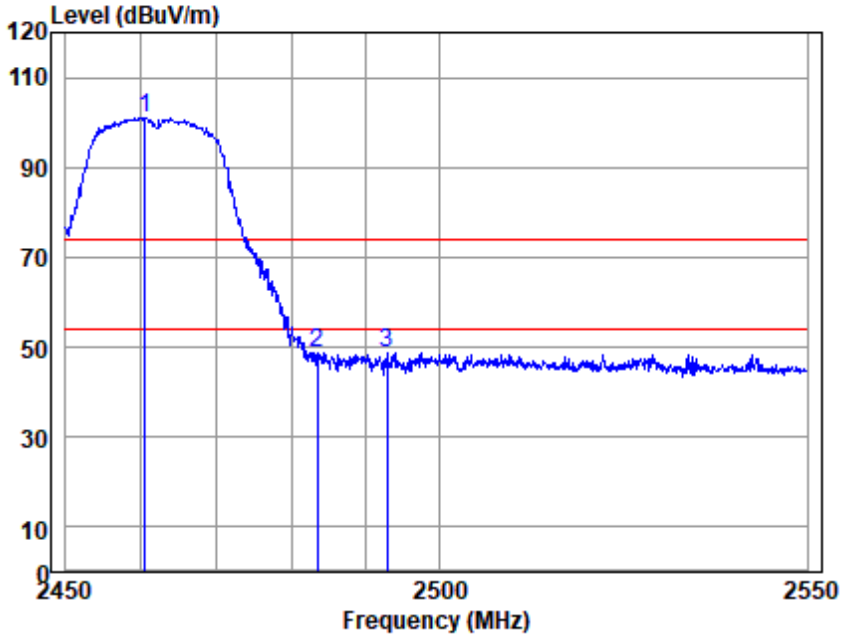



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2382.235 | 50.25 | 28.76 | 3.32 | 35.17 | 47.16 | 74.00 | -26.84 | Peak |
| 2390.000 | 49.92 | 28.80 | 3.33 | 35.18 | 46.87 | 74.00 | -27.13 | Peak |
| 2411.244 | 104.24 | 28.90 | 3.35 | 35.20 | 101.29 | 74.00 | 27.29 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

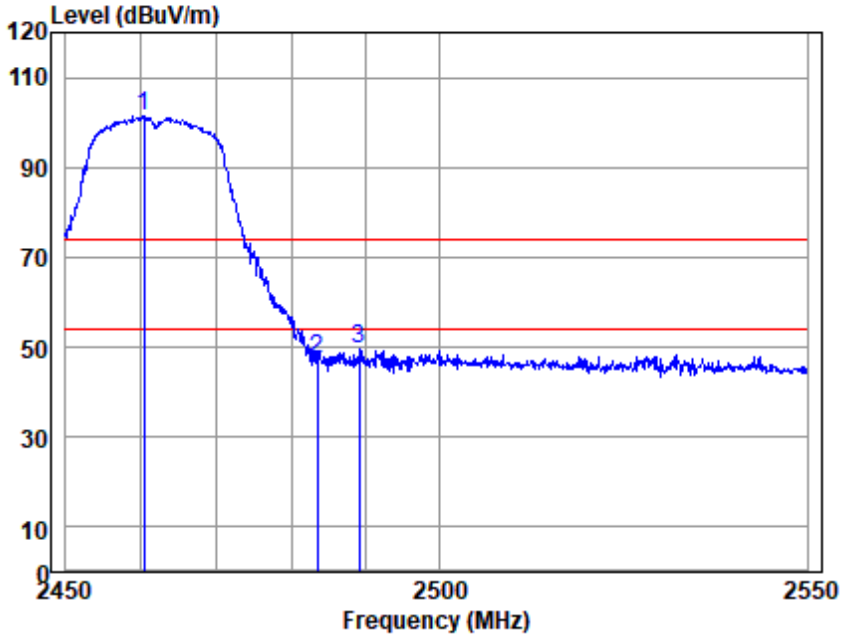



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2460.510 | 103.90 | 29.05 | 3.39 | 35.24 | 101.10 | 74.00 | 27.10 | Peak |
| 2483.500 | 51.38 | 29.09 | 3.41 | 35.26 | 48.62 | 74.00 | -25.38 | Peak |
| 2492.909 | 51.38 | 29.10 | 3.41 | 35.26 | 48.63 | 74.00 | -25.37 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

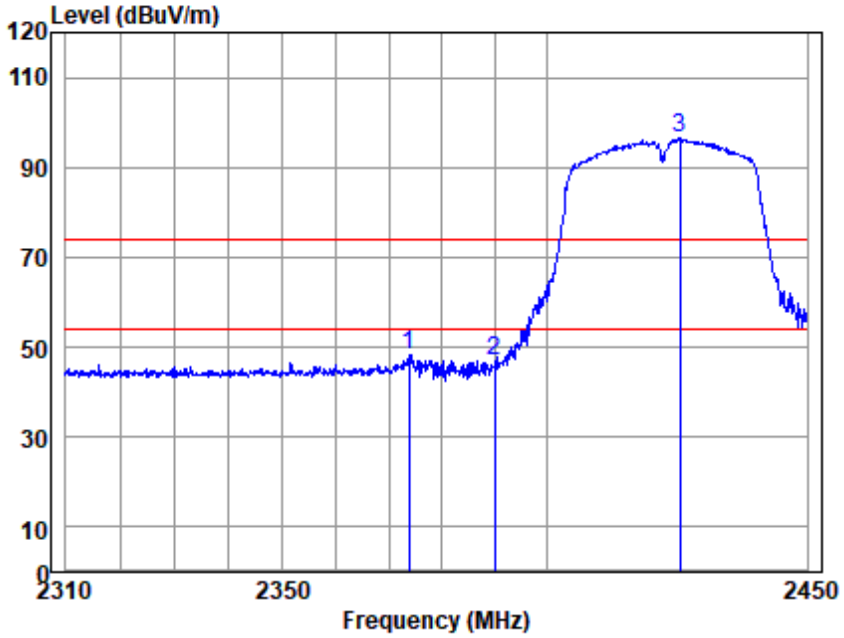



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2460.313 | 104.43 | 29.04 | 3.38 | 35.24 | 101.61 | 74.00 | 27.61 | Peak |
| 2483.500 | 50.02 | 29.09 | 3.41 | 35.26 | 47.26 | 74.00 | -26.74 | Peak |
| 2489.122 | 52.26 | 29.10 | 3.41 | 35.26 | 49.51 | 74.00 | -24.49 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

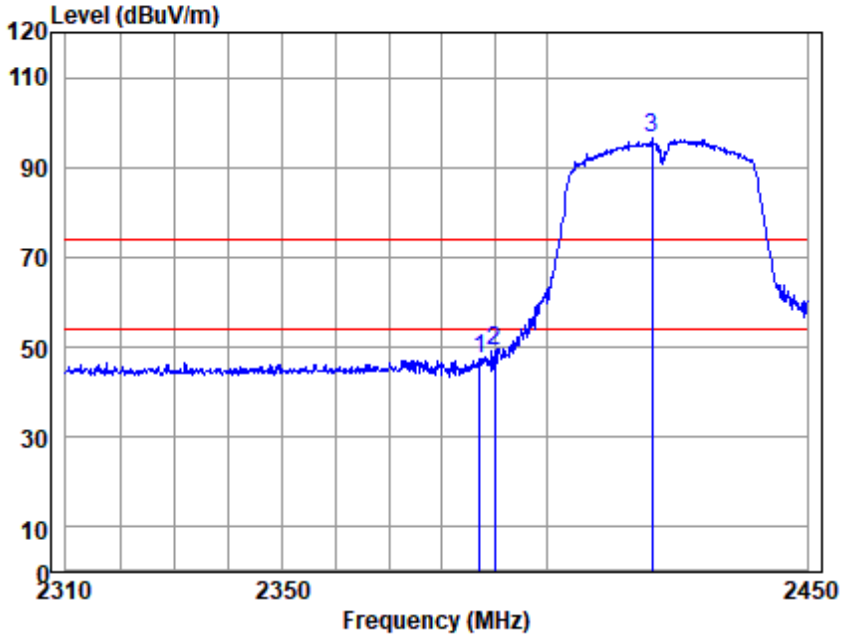



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2373.797 | 51.36 | 28.71 | 3.32 | 35.17 | 48.22 | 74.00 | -25.78 | Peak |
| 2390.000 | 50.09 | 28.80 | 3.33 | 35.18 | 47.04 | 74.00 | -26.96 | Peak |
| 2425.330 | 99.38 | 28.96 | 3.36 | 35.21 | 96.49 | 74.00 | 22.49 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

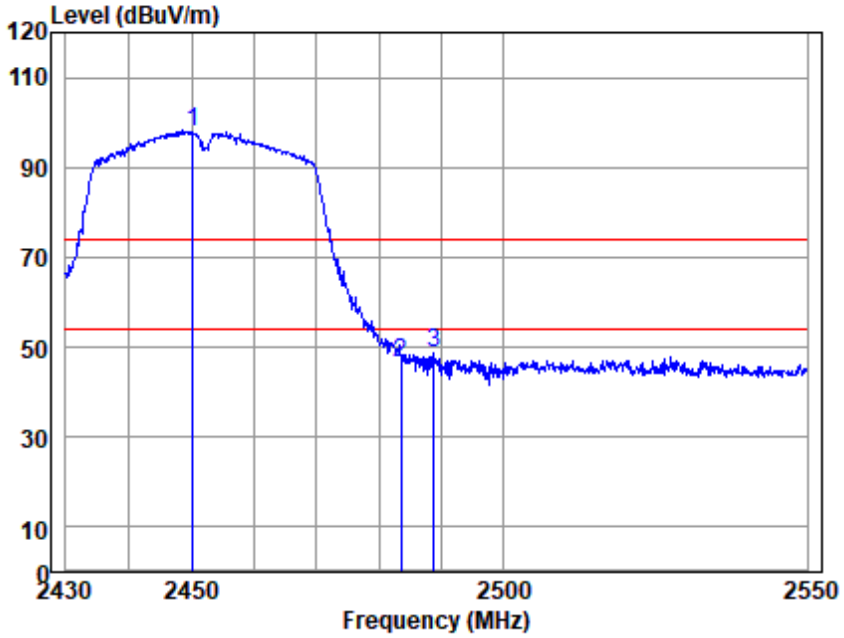



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2387.243 | 50.30 | 28.80 | 3.33 | 35.18 | 47.25 | 74.00 | -26.75 | Peak |
| 2390.000 | 52.14 | 28.80 | 3.33 | 35.18 | 49.09 | 74.00 | -24.91 | Peak |
| 2420.055 | 99.42 | 28.92 | 3.36 | 35.21 | 96.49 | 74.00 | 22.49 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

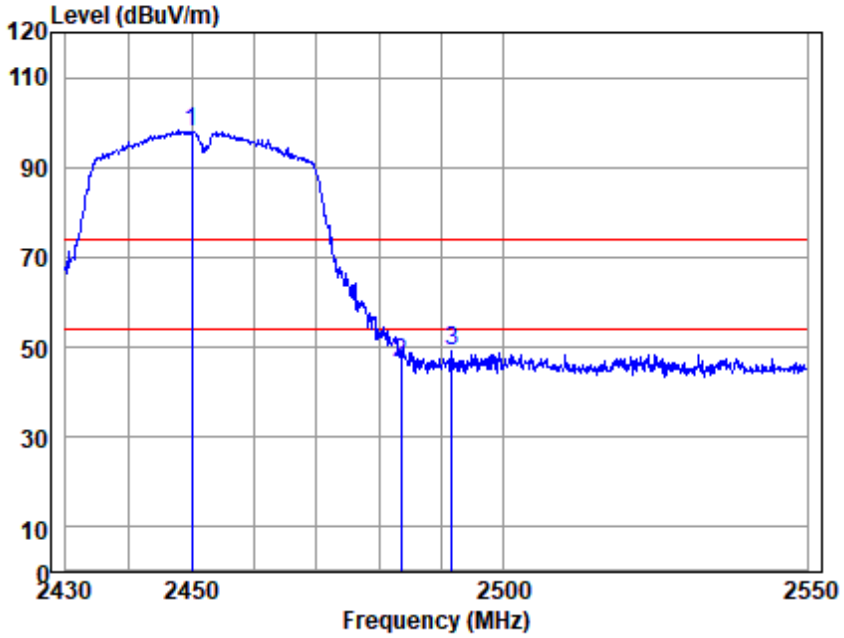



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2450.112 | 100.83 | 29.02 | 3.38 | 35.23 | 98.00 | 74.00 | 24.00 | Peak |
| 2483.500 | 49.05 | 29.09 | 3.41 | 35.26 | 46.29 | 74.00 | -27.71 | Peak |
| 2488.797 | 51.51 | 29.09 | 3.41 | 35.26 | 48.75 | 74.00 | -25.25 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High




Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2449.994 | 100.85 | 29.02 | 3.38 | 35.23 | 98.02 | 74.00 | 24.02 | Peak |
| 2483.500 | 49.36 | 29.09 | 3.41 | 35.26 | 46.60 | 74.00 | -27.40 | Peak |
| 2491.798 | 52.08 | 29.10 | 3.41 | 35.26 | 49.33 | 74.00 | -24.67 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

## 6.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5
Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|---|---|---|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| 960-1000 | 500 | 3 |

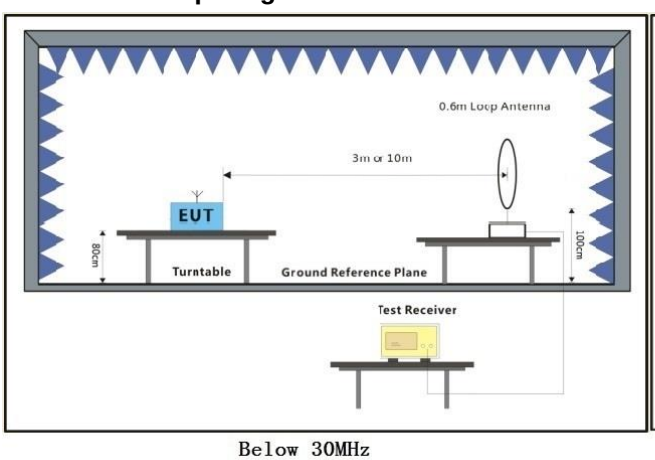
### 6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

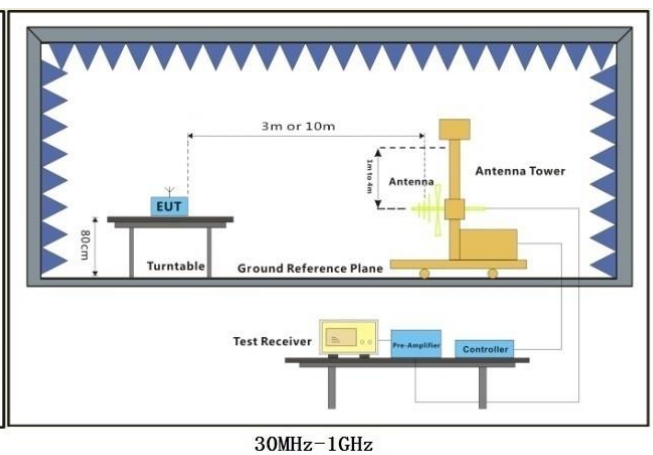
### 6.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 02 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

### 6.2.3 Test Setup Diagram




Below 30MHz




30MHz-1GHz

### 6.2.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

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

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

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

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

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

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

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

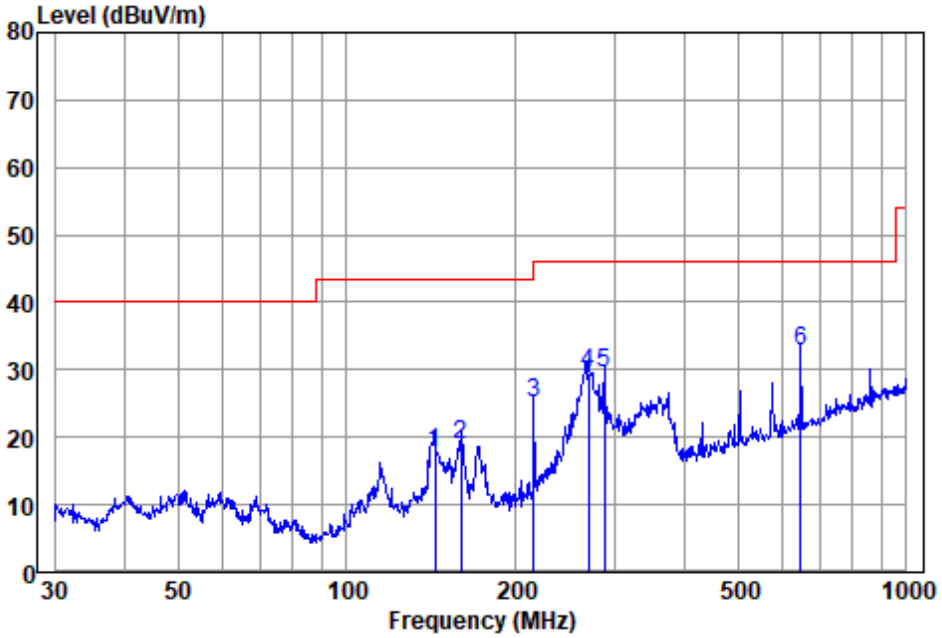
Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for 802.11b/g/n40 modulation and MIMO antenna operation for 802.11n20 modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.

Test Mode: 02; Polarity: Horizontal

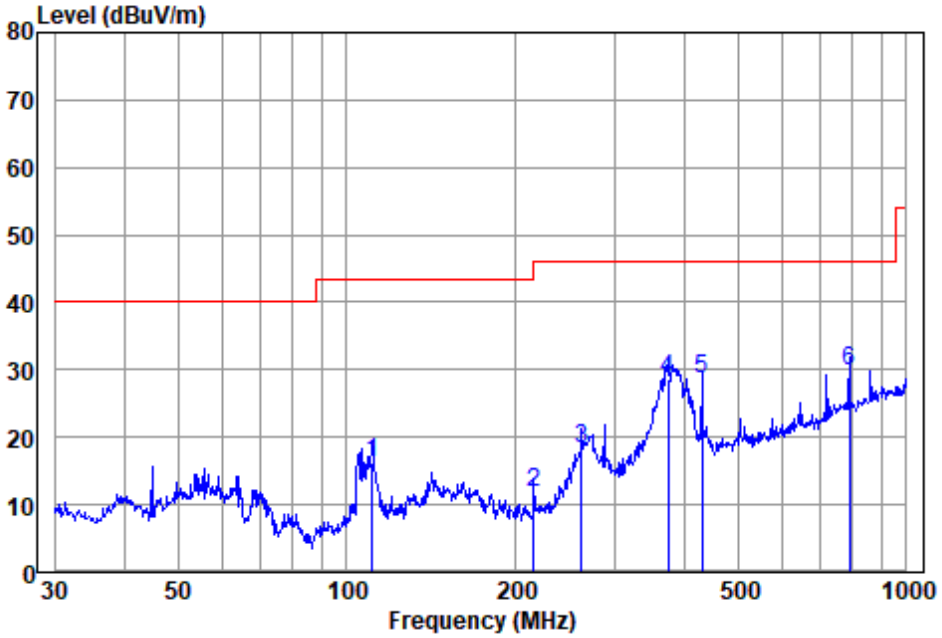



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME
Test mode :02

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 143.830 | 34.69 | 13.50 | 2.55 | 33.02 | 17.72 | 43.50 | -25.78 | QP |
| 2 | 159.784 | 35.68 | 13.60 | 2.69 | 33.00 | 18.97 | 43.50 | -24.53 | QP |
| 3 | 216.024 | 45.07 | 9.86 | 3.11 | 32.93 | 25.11 | 46.00 | -20.89 | QP |
| 4 | 270.375 | 46.23 | 12.30 | 3.91 | 32.84 | 29.60 | 46.00 | -16.40 | QP |
| 5 | 287.990 | 45.91 | 13.04 | 3.55 | 32.88 | 29.62 | 46.00 | -16.38 | QP |
| 6 | 647.386 | 39.00 | 20.65 | 5.72 | 32.61 | 32.76 | 46.00 | -13.24 | QP |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical




Antenna Polarity :VERTICAL
EUT/Project :0535ME
Test mode :02

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 110.957 | 36.42 | 10.60 | 2.27 | 33.15 | 16.14 | 43.50 | -27.36 | QP |
| 2 | 216.024 | 31.78 | 9.86 | 3.11 | 32.93 | 11.82 | 46.00 | -34.18 | QP |
| 3 | 262.896 | 35.36 | 12.08 | 3.56 | 32.83 | 18.17 | 46.00 | -27.83 | QP |
| 4 | 374.623 | 41.92 | 15.10 | 4.28 | 32.75 | 28.55 | 46.00 | -17.45 | QP |
| 5 | 431.032 | 40.05 | 16.74 | 4.57 | 32.74 | 28.62 | 46.00 | -17.38 | QP |
| 6 | 790.619 | 33.29 | 22.50 | 6.41 | 32.30 | 29.90 | 46.00 | -16.10 | QP |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

## 6.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.6
Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|---|---|---|
| Above 1000 | 500 | 3 |

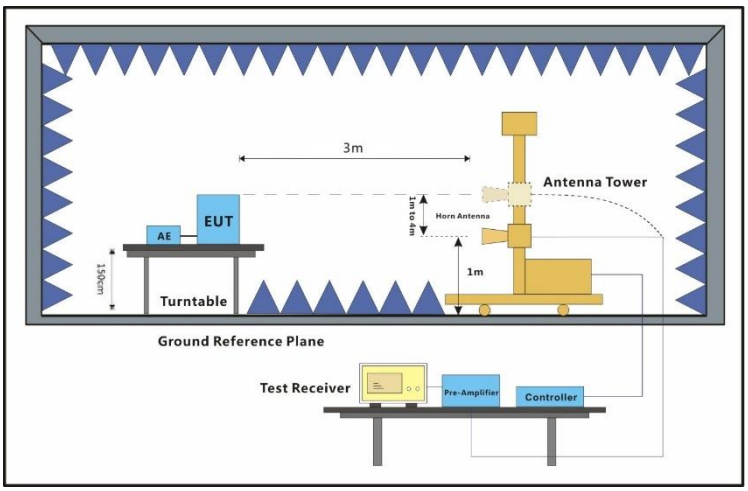
### 6.3.1 E.U.T. Operation

Operating Environment:
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

### 6.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 02 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

### 6.3.3 Test Setup Diagram



### 6.3.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

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

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

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

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

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

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

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

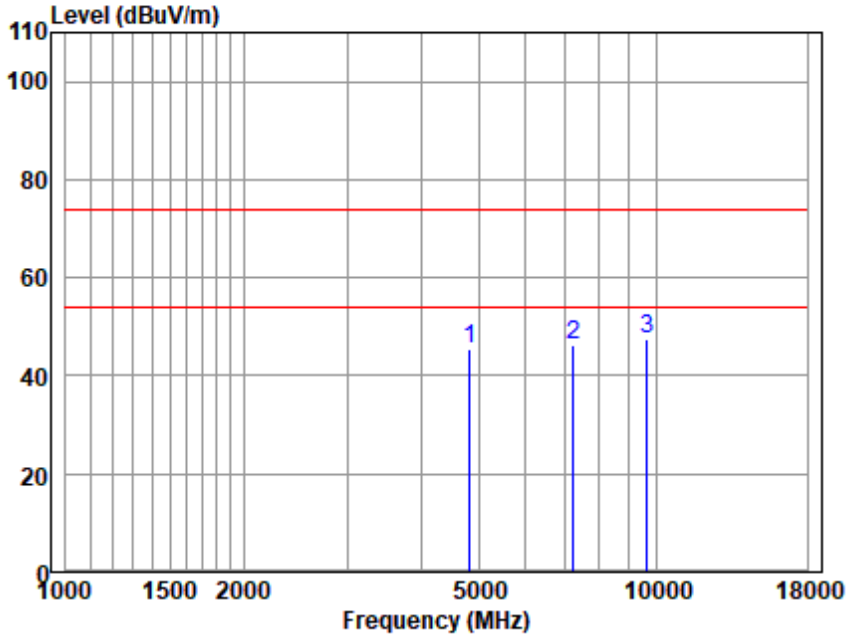
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geqslant$1/T (Duty cycle$<$98%) or 10Hz (Duty cycle$\geqslant$98%) for Average detection (AV) at frequency above 1GHz.

6: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for 802.11b/g/n40 modulation and MIMO antenna operation for 802.11n20 modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.

Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

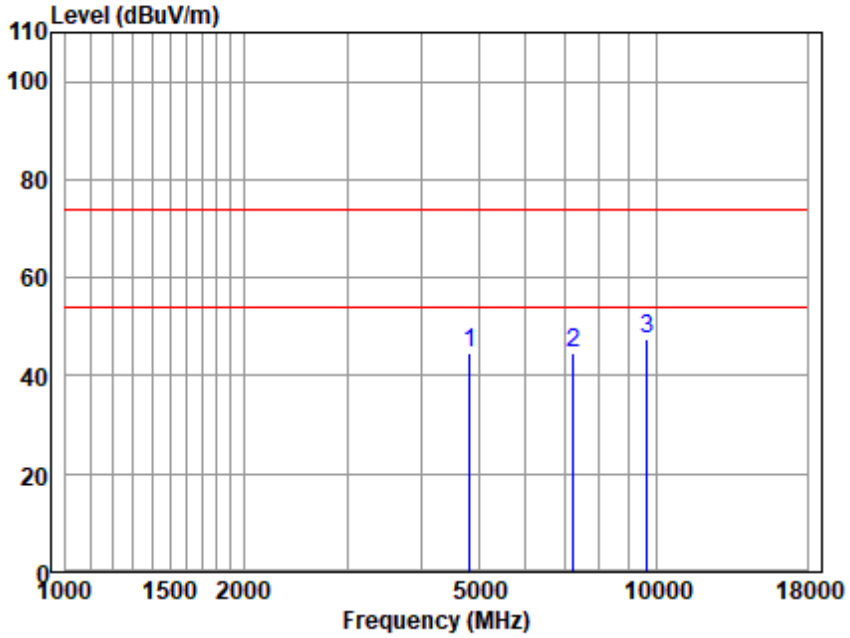



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4824.016 | 43.39 | 33.60 | 5.24 | 36.79 | 45.44 | 74.00 | -28.56 | Peak |
| 7242.052 | 38.30 | 36.29 | 7.36 | 35.50 | 46.45 | 74.00 | -27.55 | Peak |
| 9641.257 | 34.73 | 37.71 | 8.76 | 33.56 | 47.64 | 74.00 | -26.36 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

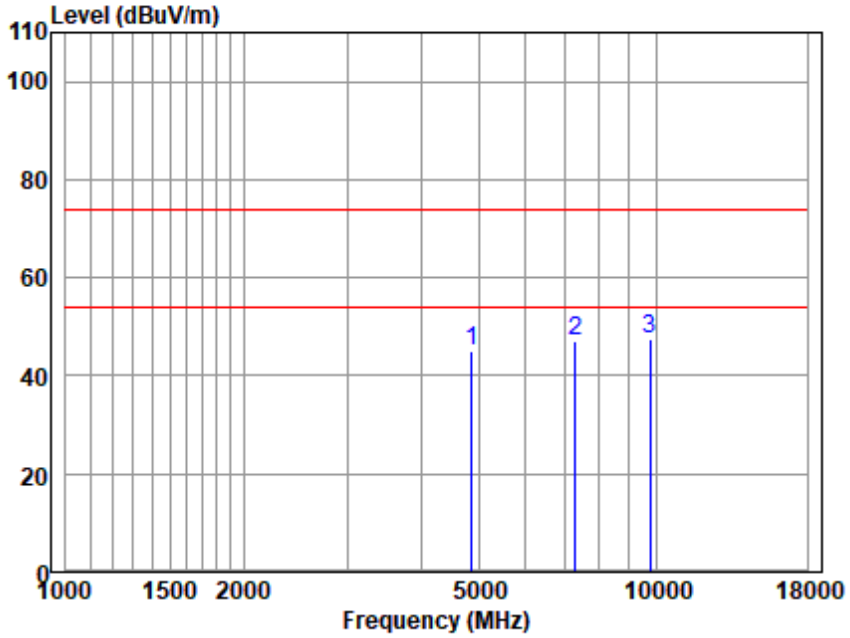



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4824.016 | 42.42 | 33.60 | 5.24 | 36.79 | 44.47 | 74.00 | -29.53 | Peak |
| 7242.052 | 36.45 | 36.29 | 7.36 | 35.50 | 44.60 | 74.00 | -29.40 | Peak |
| 9641.257 | 34.46 | 37.71 | 8.76 | 33.56 | 47.37 | 74.00 | -26.63 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle

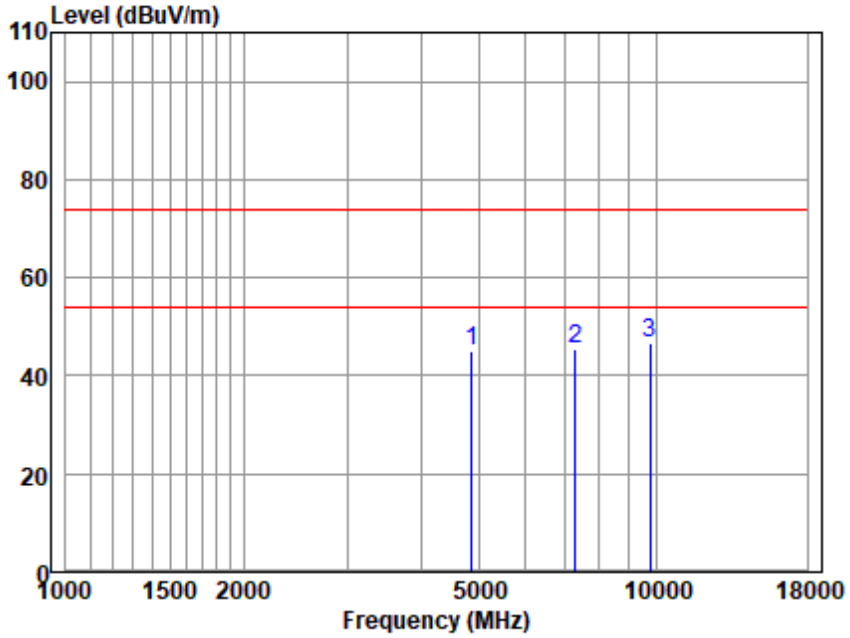



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4874.043 | 43.12 | 33.66 | 5.28 | 36.81 | 45.25 | 74.00 | -28.75 | Peak |
| 7305.122 | 38.60 | 36.32 | 7.42 | 35.44 | 46.90 | 74.00 | -27.10 | Peak |
| 9753.371 | 34.75 | 37.54 | 8.80 | 33.50 | 47.59 | 74.00 | -26.41 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle

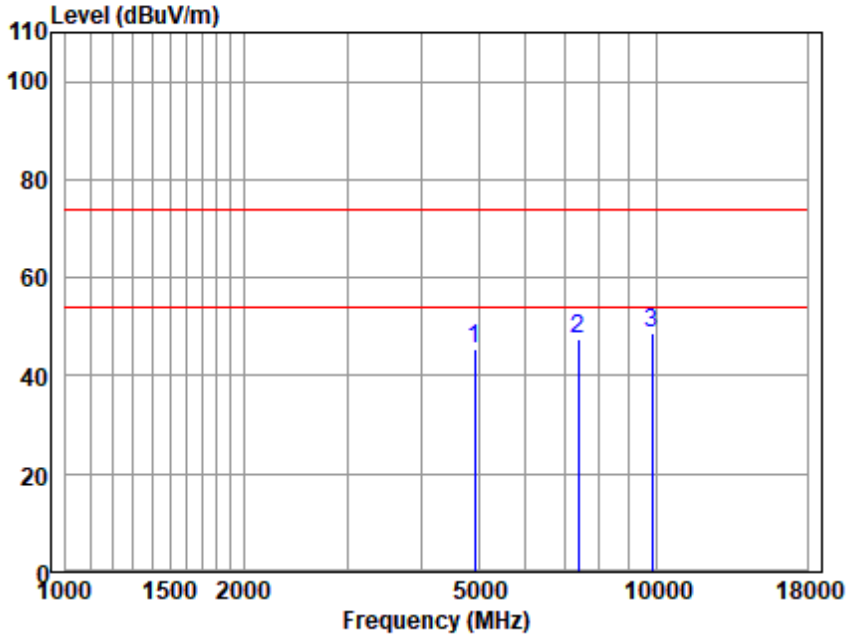



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4874.043 | 42.82 | 33.66 | 5.28 | 36.81 | 44.95 | 74.00 | -29.05 | Peak |
| 7305.122 | 37.36 | 36.32 | 7.42 | 35.44 | 45.66 | 74.00 | -28.34 | Peak |
| 9753.371 | 33.93 | 37.54 | 8.80 | 33.50 | 46.77 | 74.00 | -27.23 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

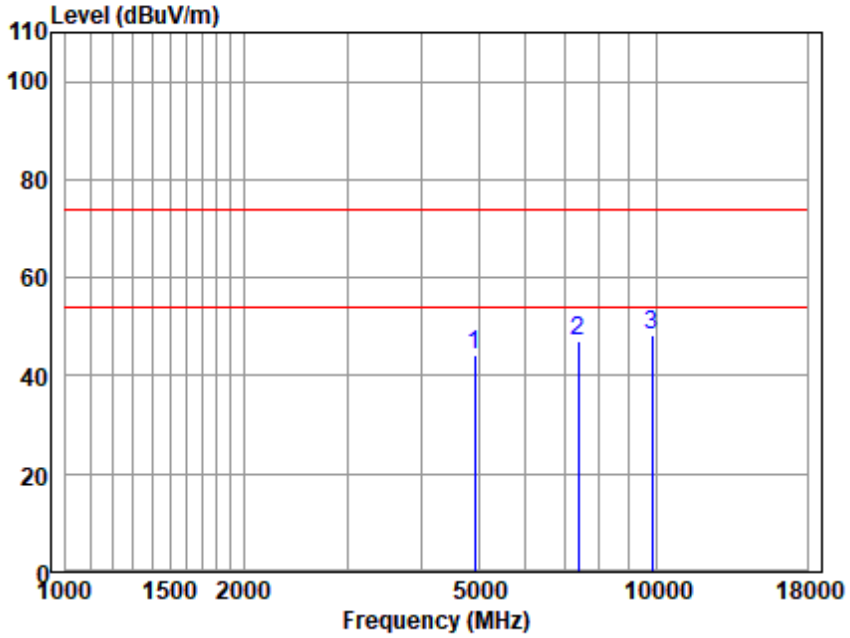



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4924.721 | 43.26 | 33.64 | 5.32 | 36.82 | 45.40 | 74.00 | -28.60 | Peak |
| 7390.070 | 39.15 | 36.36 | 7.49 | 35.37 | 47.63 | 74.00 | -26.37 | Peak |
| 9838.312 | 35.71 | 37.60 | 8.84 | 33.45 | 48.70 | 74.00 | -25.30 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

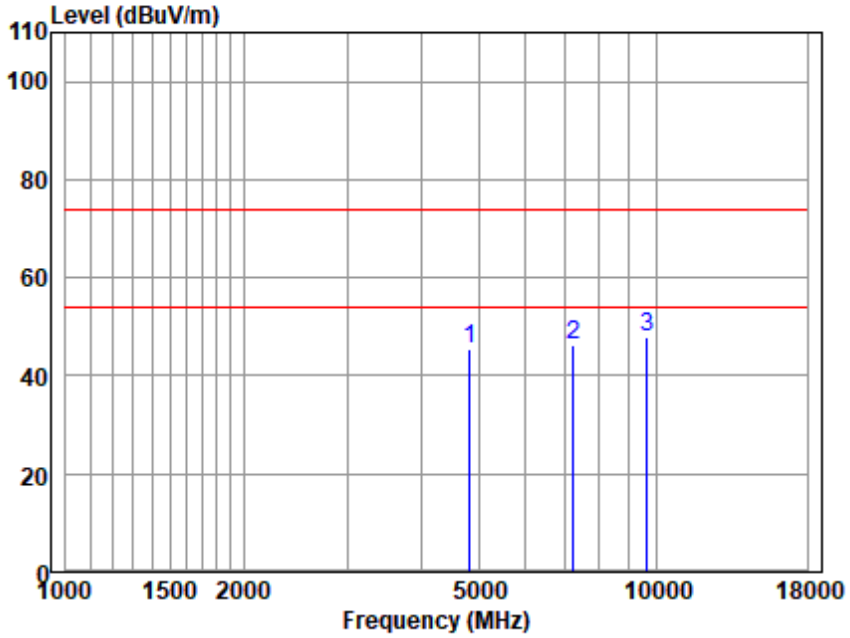



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4924.721 | 42.06 | 33.64 | 5.32 | 36.82 | 44.20 | 74.00 | -29.80 | Peak |
| 7390.070 | 38.45 | 36.36 | 7.49 | 35.37 | 46.93 | 74.00 | -27.07 | Peak |
| 9838.312 | 35.23 | 37.60 | 8.84 | 33.45 | 48.22 | 74.00 | -25.78 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

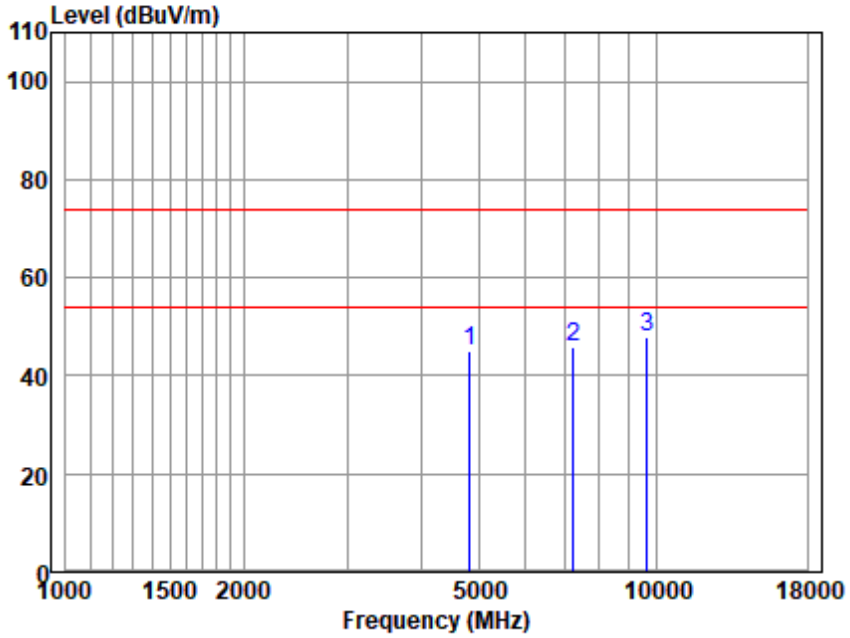



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4824.016 | 43.24 | 33.60 | 5.24 | 36.79 | 45.29 | 74.00 | -28.71 | Peak |
| 7242.052 | 38.21 | 36.29 | 7.36 | 35.50 | 46.36 | 74.00 | -27.64 | Peak |
| 9641.257 | 35.15 | 37.71 | 8.76 | 33.56 | 48.06 | 74.00 | -25.94 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

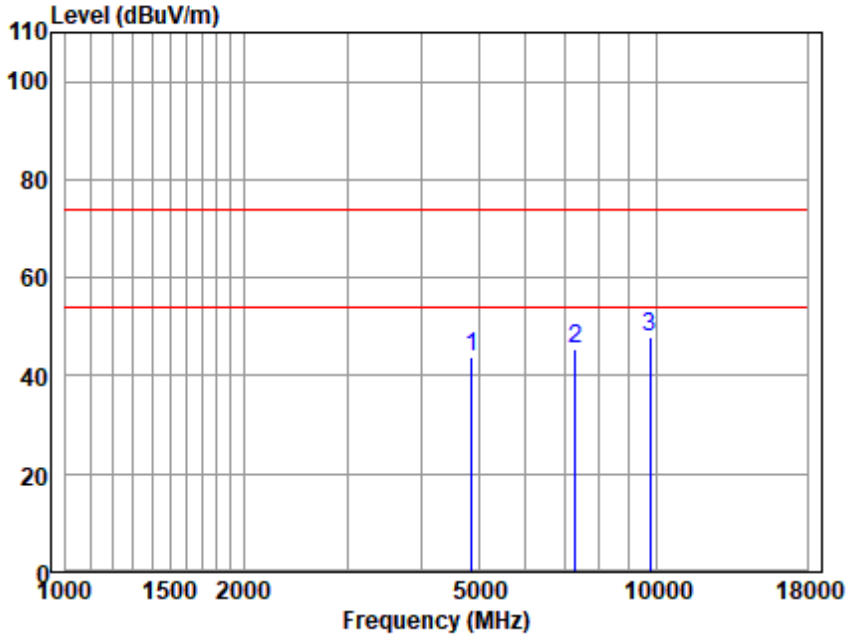



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4824.016 | 42.94 | 33.60 | 5.24 | 36.79 | 44.99 | 74.00 | -29.01 | Peak |
| 7242.052 | 37.54 | 36.29 | 7.36 | 35.50 | 45.69 | 74.00 | -28.31 | Peak |
| 9641.257 | 34.91 | 37.71 | 8.76 | 33.56 | 47.82 | 74.00 | -26.18 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle

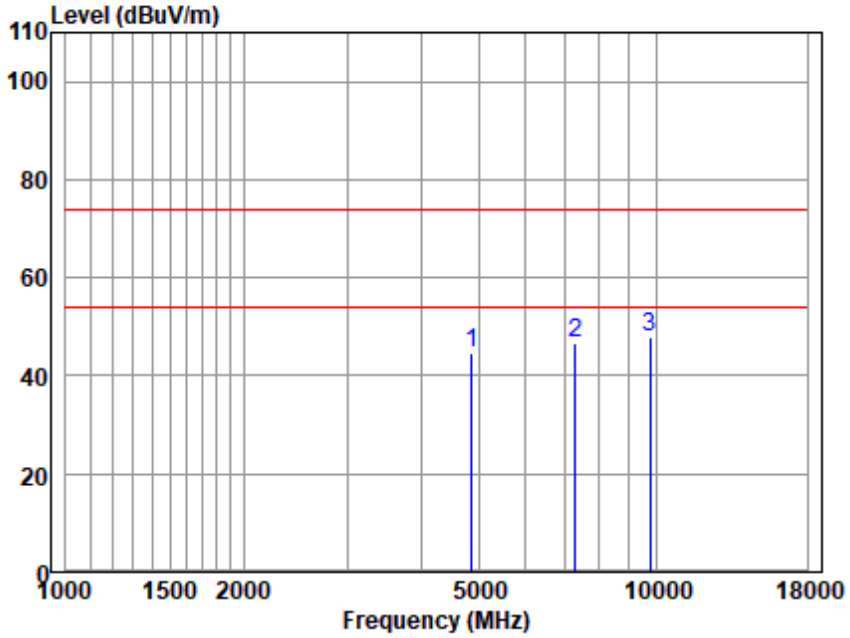



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4874.043 | 41.87 | 33.66 | 5.28 | 36.81 | 44.00 | 74.00 | -30.00 | Peak |
| 7305.122 | 37.23 | 36.32 | 7.42 | 35.44 | 45.53 | 74.00 | -28.47 | Peak |
| 9753.371 | 35.24 | 37.54 | 8.80 | 33.50 | 48.08 | 74.00 | -25.92 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle

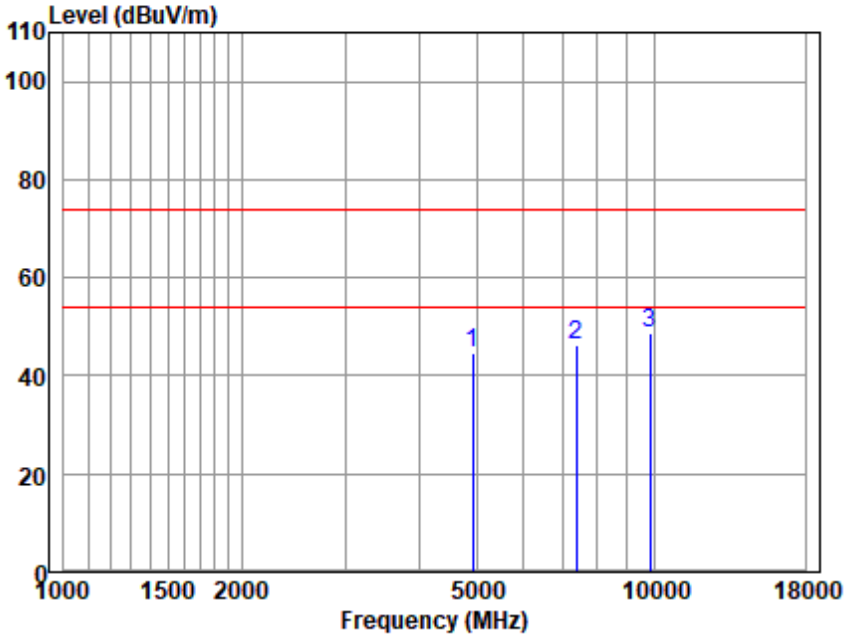



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4874.043 | 42.36 | 33.66 | 5.28 | 36.81 | 44.49 | 74.00 | -29.51 | Peak |
| 7305.122 | 38.51 | 36.32 | 7.42 | 35.44 | 46.81 | 74.00 | -27.19 | Peak |
| 9753.371 | 35.04 | 37.54 | 8.80 | 33.50 | 47.88 | 74.00 | -26.12 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High

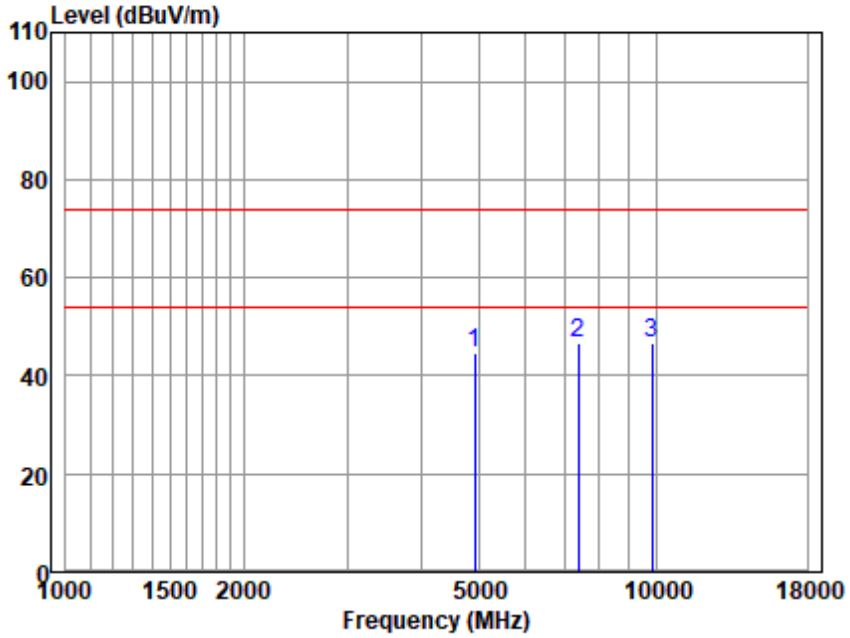



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4924.721 | 42.57 | 33.64 | 5.32 | 36.82 | 44.71 | 74.00 | -29.29 | Peak |
| 7390.070 | 37.69 | 36.36 | 7.49 | 35.37 | 46.17 | 74.00 | -27.83 | Peak |
| 9838.312 | 35.82 | 37.60 | 8.84 | 33.45 | 48.81 | 74.00 | -25.19 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High

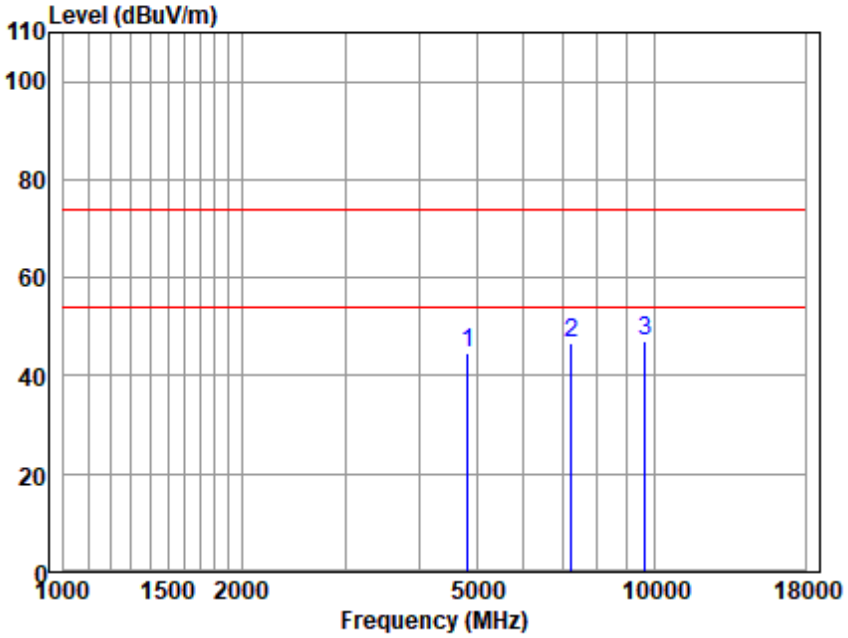



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4924.721 | 42.48 | 33.64 | 5.32 | 36.82 | 44.62 | 74.00 | -29.38 | Peak |
| 7390.070 | 38.13 | 36.36 | 7.49 | 35.37 | 46.61 | 74.00 | -27.39 | Peak |
| 9838.312 | 33.84 | 37.60 | 8.84 | 33.45 | 46.83 | 74.00 | -27.17 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

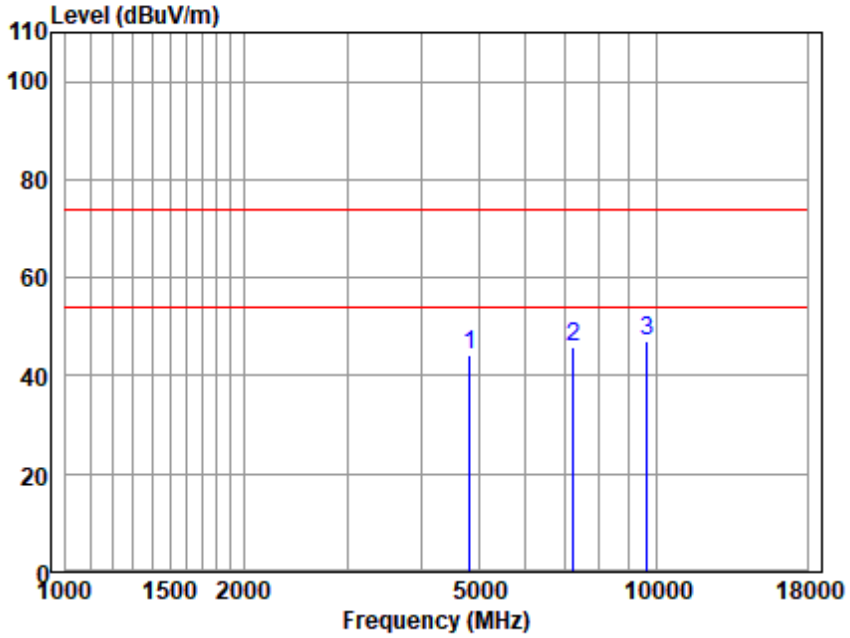



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4824.016 | 42.49 | 33.60 | 5.24 | 36.79 | 44.54 | 74.00 | -29.46 | Peak |
| 7242.052 | 38.70 | 36.29 | 7.36 | 35.50 | 46.85 | 74.00 | -27.15 | Peak |
| 9641.257 | 34.18 | 37.71 | 8.76 | 33.56 | 47.09 | 74.00 | -26.91 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

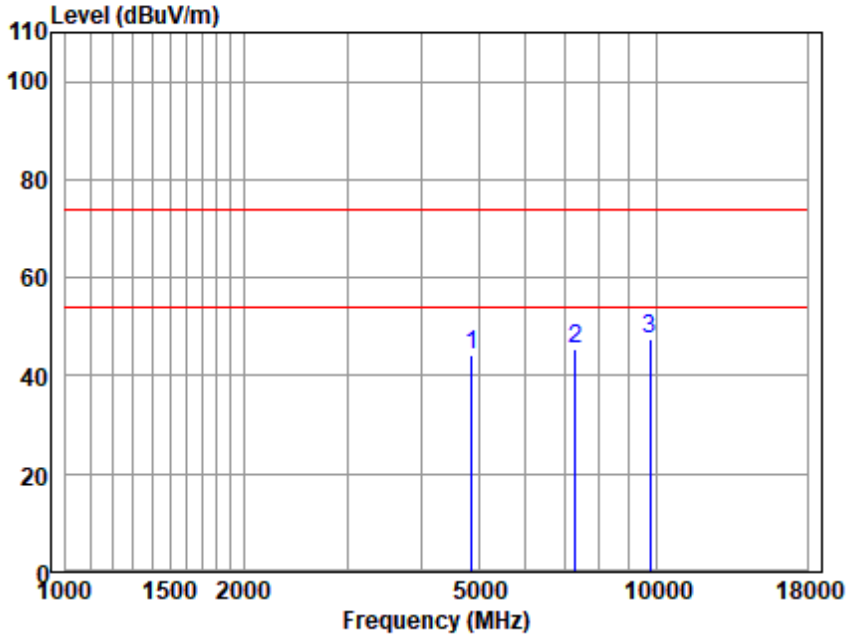



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4824.016 | 42.01 | 33.60 | 5.24 | 36.79 | 44.06 | 74.00 | -29.94 | Peak |
| 7242.052 | 37.70 | 36.29 | 7.36 | 35.50 | 45.85 | 74.00 | -28.15 | Peak |
| 9641.257 | 34.31 | 37.71 | 8.76 | 33.56 | 47.22 | 74.00 | -26.78 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

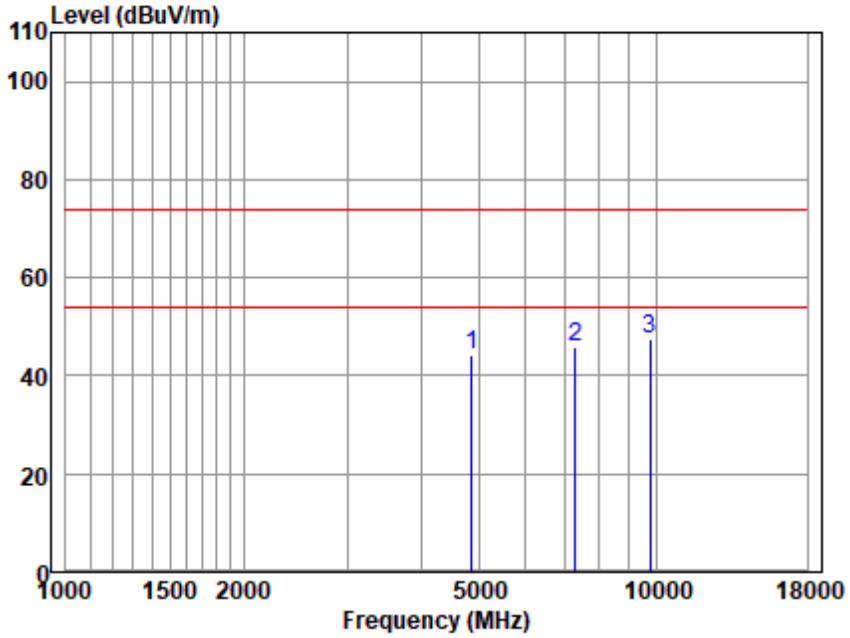



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4874.043 | 42.01 | 33.66 | 5.28 | 36.81 | 44.14 | 74.00 | -29.86 | Peak |
| 7305.122 | 37.26 | 36.32 | 7.42 | 35.44 | 45.56 | 74.00 | -28.44 | Peak |
| 9753.371 | 34.68 | 37.54 | 8.80 | 33.50 | 47.52 | 74.00 | -26.48 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

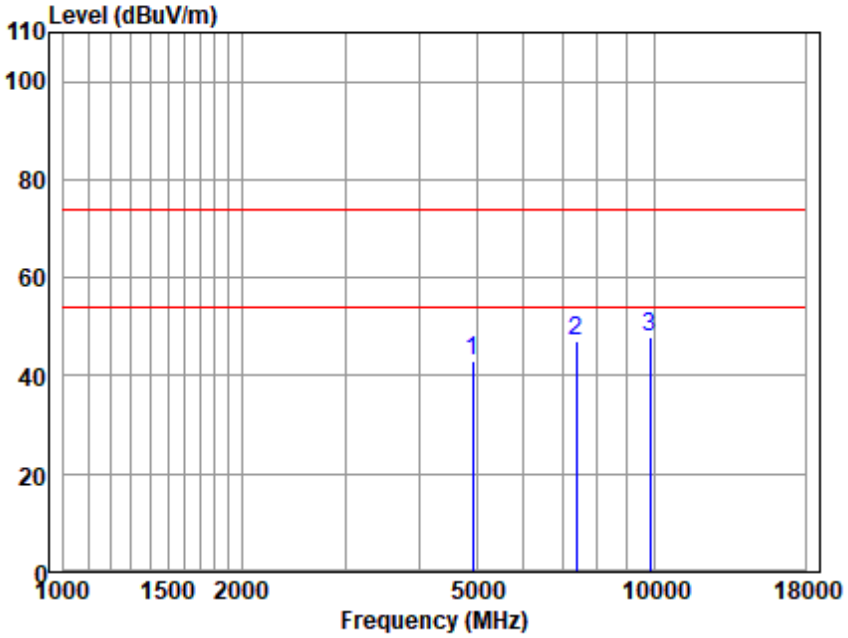



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4874.043 | 42.21 | 33.66 | 5.28 | 36.81 | 44.34 | 74.00 | -29.66 | Peak |
| 7305.122 | 37.60 | 36.32 | 7.42 | 35.44 | 45.90 | 74.00 | -28.10 | Peak |
| 9753.371 | 34.58 | 37.54 | 8.80 | 33.50 | 47.42 | 74.00 | -26.58 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

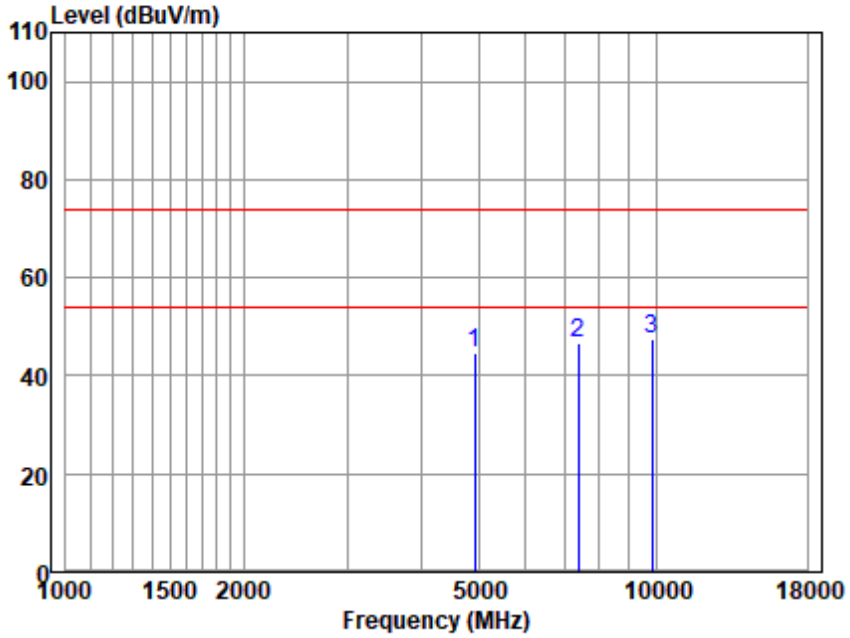



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4924.721 | 40.92 | 33.64 | 5.32 | 36.82 | 43.06 | 74.00 | -30.94 | Peak |
| 7390.070 | 38.76 | 36.36 | 7.49 | 35.37 | 47.24 | 74.00 | -26.76 | Peak |
| 9838.312 | 34.85 | 37.60 | 8.84 | 33.45 | 47.84 | 74.00 | -26.16 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

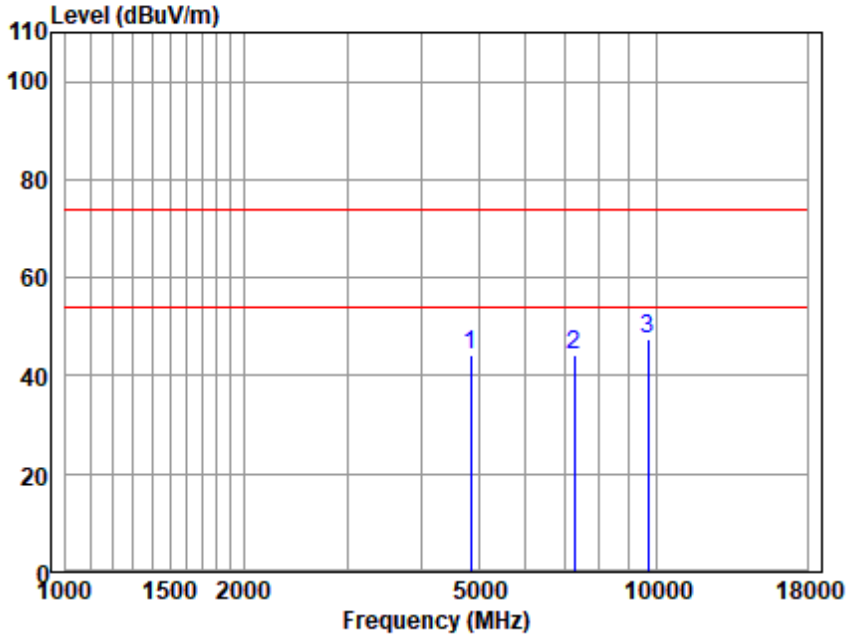



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4924.721 | 42.53 | 33.64 | 5.32 | 36.82 | 44.67 | 74.00 | -29.33 | Peak |
| 7390.070 | 38.33 | 36.36 | 7.49 | 35.37 | 46.81 | 74.00 | -27.19 | Peak |
| 9838.312 | 34.50 | 37.60 | 8.84 | 33.45 | 47.49 | 74.00 | -26.51 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

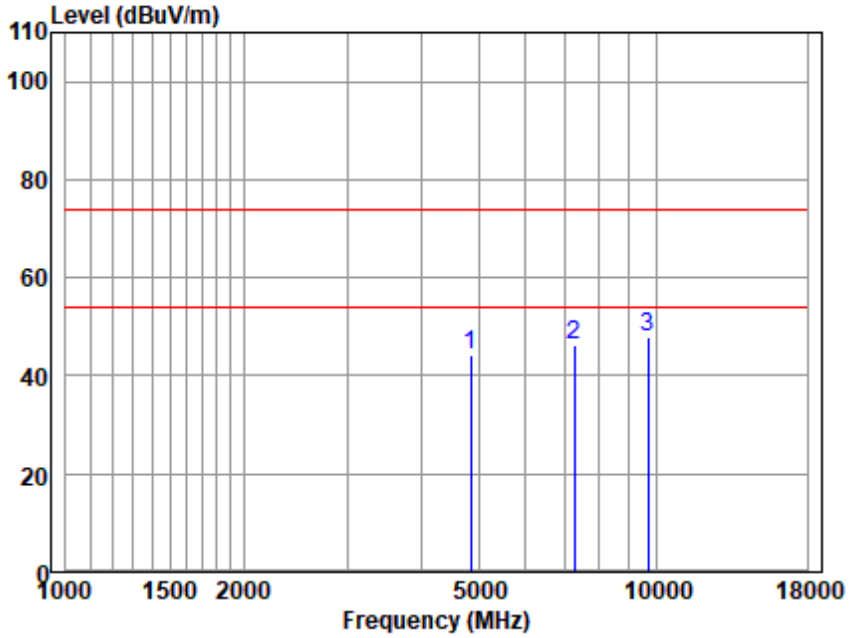



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4844.948 | 42.01 | 33.66 | 5.26 | 36.80 | 44.13 | 74.00 | -29.87 | Peak |
| 7263.015 | 36.17 | 36.30 | 7.38 | 35.48 | 44.37 | 74.00 | -29.63 | Peak |
| 9697.151 | 34.48 | 37.62 | 8.78 | 33.53 | 47.35 | 74.00 | -26.65 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

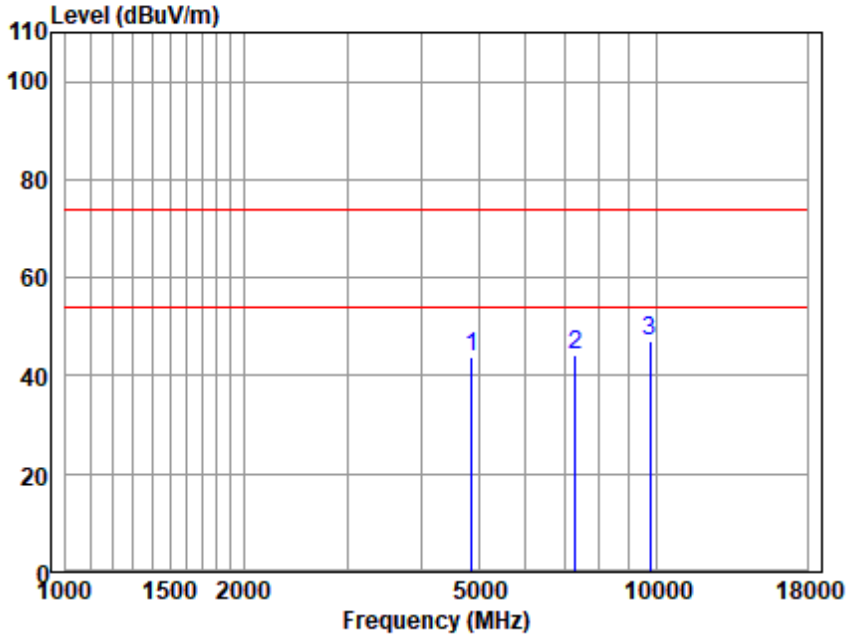



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4844.948 | 42.11 | 33.66 | 5.26 | 36.80 | 44.23 | 74.00 | -29.77 | Peak |
| 7263.015 | 38.12 | 36.30 | 7.38 | 35.48 | 46.32 | 74.00 | -27.68 | Peak |
| 9697.151 | 35.10 | 37.62 | 8.78 | 33.53 | 47.97 | 74.00 | -26.03 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle

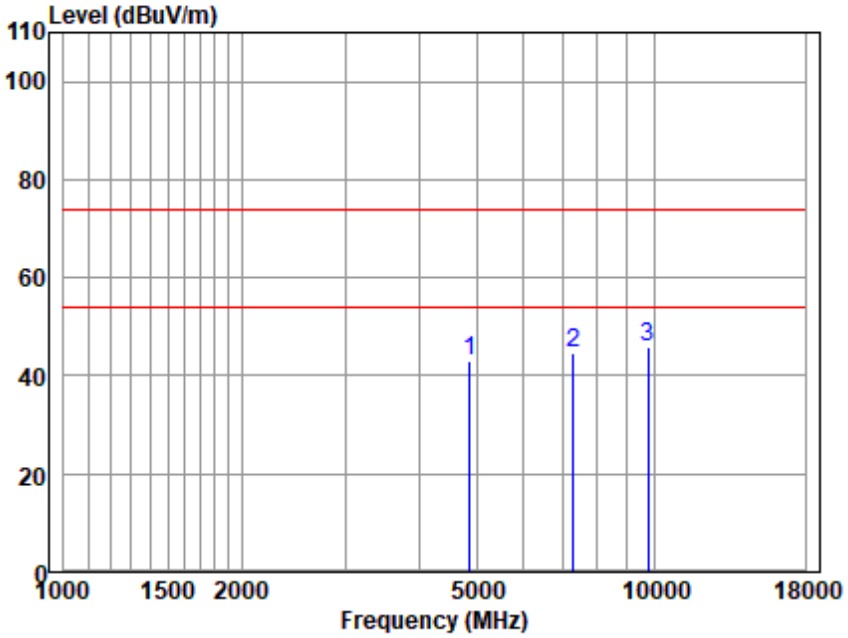



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4874.043 | 41.56 | 33.66 | 5.28 | 36.81 | 43.69 | 74.00 | -30.31 | Peak |
| 7305.122 | 35.77 | 36.32 | 7.42 | 35.44 | 44.07 | 74.00 | -29.93 | Peak |
| 9753.371 | 34.20 | 37.54 | 8.80 | 33.50 | 47.04 | 74.00 | -26.96 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle

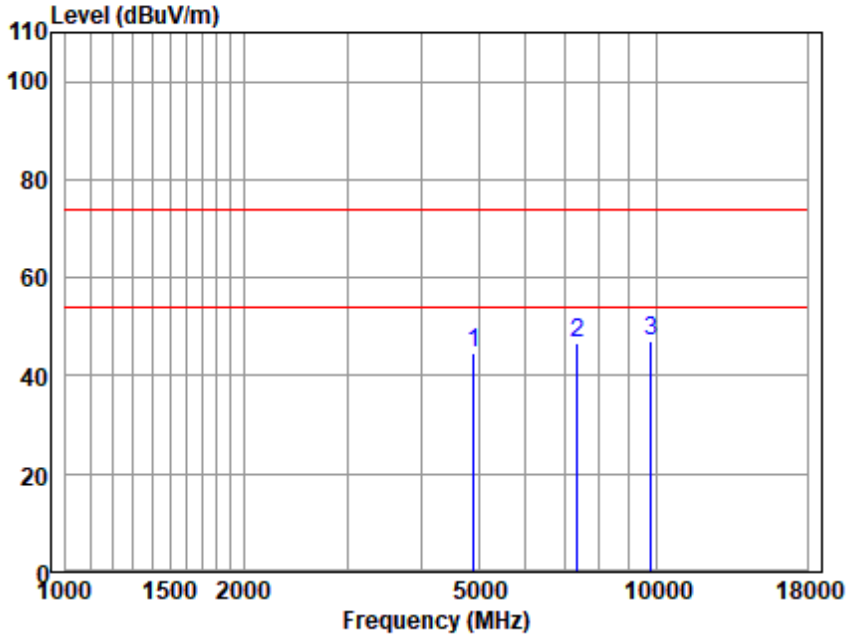



Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4874.043 | 40.76 | 33.66 | 5.28 | 36.81 | 42.89 | 74.00 | -31.11 | Peak |
| 7305.122 | 36.20 | 36.32 | 7.42 | 35.44 | 44.50 | 74.00 | -29.50 | Peak |
| 9753.371 | 33.17 | 37.54 | 8.80 | 33.50 | 46.01 | 74.00 | -27.99 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

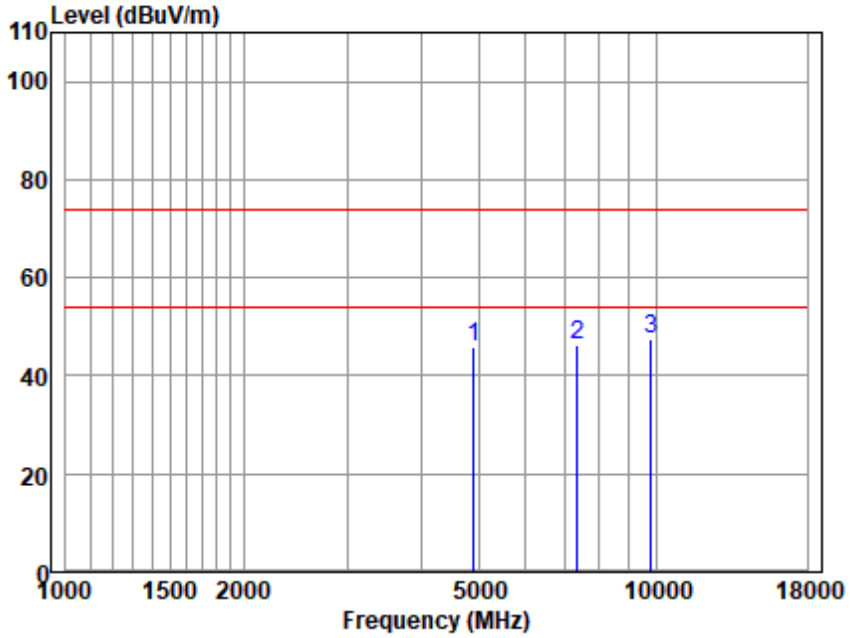



Antenna Polarity :HORIZONTAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4904.300 | 42.49 | 33.66 | 5.30 | 36.81 | 44.64 | 74.00 | -29.36 | Peak |
| 7347.474 | 38.39 | 36.35 | 7.45 | 35.41 | 46.78 | 74.00 | -27.22 | Peak |
| 9809.916 | 34.22 | 37.57 | 8.83 | 33.47 | 47.15 | 74.00 | -26.85 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High




Antenna Polarity :VERTICAL
EUT/Project :0535ME

| Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Emission Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4904.300 | 43.73 | 33.66 | 5.30 | 36.81 | 45.88 | 74.00 | -28.12 | Peak |
| 7347.474 | 37.83 | 36.35 | 7.45 | 35.41 | 46.22 | 74.00 | -27.78 | Peak |
| 9809.916 | 34.46 | 37.57 | 8.83 | 33.47 | 47.39 | 74.00 | -26.61 | Peak |

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

# 7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2503000535ME

# 8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2503000535ME

- End of the Report -