

# TEST REPORT

**Application No.:** SZCR2507003174AT  
**Applicant:** DT Research, Inc.  
**Address of Applicant:** 3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan  
**Manufacturer:** DT Research, Inc.  
**Address of Manufacturer:** 2000 Concourse Drive, San Jose, CA 95131, USA  
**Factory:** DT Research, Inc. Taiwan Branch  
**Address of Factory:** 6F., No.36 Wuquan 7 th Rd., Wugu Dist.New Taipei City 248 Taiwan  
**Equipment Under Test (EUT):**  
**EUT Name:** Multi-mode Smart LTE Module  
**Model No.:** SC200E-NA  
**Trade Mark:**   
**FCC ID:** YE3600-SC200ENA  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2025-07-21  
**Date of Test:** 2025-07-24 to 2025-08-19  
**Date of Issue:** 2025-08-20

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

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

*Keny Xu*

Keny Xu  
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch EMC Laboratory

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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2025-08-20 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |                            |  |  |
|--------------------------|--|----------------------------|--|--|
| Authorized for issue by: |  |                            |  |  |
|                          |  | Edison Li                  |  |  |
|                          |  | Edison Li/Project Engineer |  |  |
|                          |  | Eric Fu                    |  |  |
|                          |  | Eric Fu/Reviewer           |  |  |



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## 2 Test Summary

| Radio Spectrum Technical Requirement |                                  |        |                                                 |        |
|--------------------------------------|----------------------------------|--------|-------------------------------------------------|--------|
| Item                                 | Standard                         | Method | Requirement                                     | Result |
| Antenna Requirement                  | 47 CFR Part 15, Subpart C 15.247 | N/A    | 47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) | Pass   |

| Radio Spectrum Matter Part                            |                                  |                                    |                                           |        |
|-------------------------------------------------------|----------------------------------|------------------------------------|-------------------------------------------|--------|
| Item                                                  | Standard                         | Method                             | Requirement                               | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz)   | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2020) Section 6.2     | 47 CFR Part 15, Subpart C 15.207          | Pass   |
| Radiated Emissions which fall in the restricted bands |                                  | ANSI C63.10 (2020) Section 6.10.5  | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Radiated Spurious Emissions Below 1GHz                |                                  | ANSI C63.10 (2020) Section 6.4,6.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Radiated Spurious Emissions Above 1GHz                |                                  | ANSI C63.10 (2020) Section 6.6     | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |

### Remark:

Model No.: SC200E-NA

This report is prepared for FCC class II permissive change to install the granted module(FCC ID: YE3600-SC200ENA, Granted on 08/20/2025) into a host product and also change the antenna gains.

Therefore in this report Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions were fully retested on model SC200E-NA and shown the data in this report.



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## 4 General Information

### 4.1 Details of E.U.T.

|                      |                                                                                |
|----------------------|--------------------------------------------------------------------------------|
| Power supply:        | DC 3.8V powered by test mainboard                                              |
| Operation Frequency: | 802.11b/g/n (20MHz): 2412MHz to 2462MHz<br>802.11n (40MHz): 2422MHz to 2452MHz |
| Modulation Type:     | 802.11b: DSSS(CCK, DQPSK, DBPSK)<br>802.11g/n: OFDM(QPSK, BPSK, 16QAM, 64QAM)  |
| Channel Numbers:     | 802.11b/g/n 20MHz: 11 Channels<br>802.11n 40MHz: 7 Channels                    |
| Channel Spacing:     | 5MHz                                                                           |
| Antenna Type:        | PIFA Antenna                                                                   |
| Antenna Gain:        | 4.3dBi                                                                         |

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### 4.2 Description of Support Units

| Description                      | Manufacturer       | Model No.              | Serial No.                                                                     |
|----------------------------------|--------------------|------------------------|--------------------------------------------------------------------------------|
| Test mainboard                   | Provided by client | DA205TE                | /                                                                              |
| AC Adapter                       | Provided by client | A18-065N3A             | Input: AC 100-240V,<br>50/60Hz, 1.7A<br>Output: DC 19.0V, 3.42A,<br>65.0W      |
| Rechargeable Lithium-ion battery | Provided by client | ACC-006-500(3INR19/66) | Nominal Voltage: 10.9Vdc<br>Rated Capacity: 2700mAh<br>Nominal Energy: 29.43Wh |

### 4.3 Measurement Uncertainty

| Test Item                                             | Measurement Uncertainty                                          |
|-------------------------------------------------------|------------------------------------------------------------------|
| Conducted Emissions at AC Power Line (150kHz-30MHz)   | $\pm 3.1\text{dB}$                                               |
| Radiated Emissions which fall in the restricted bands | $\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz) |
| Radiated Spurious Emissions Below 1GHz                | $\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m            |
| Radiated Spurious Emissions Above 1GHz                | $\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)      |

Remark:

The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{CISPR/ETSI}}$  (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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### 4.4 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

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

#### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### • VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

| Conducted Emissions at AC Power Line (150kHz-30MHz) |                  |                  |               |            |              |
|-----------------------------------------------------|------------------|------------------|---------------|------------|--------------|
| Equipment                                           | Manufacturer     | Model No.        | Inventory No. | Cal Date   | Cal Due Date |
| Shielding Room                                      | ZhongYu Electron | GB-88            | SEM001-06     | 2025-05-07 | 2028-05-06   |
| EMI Test Receiver                                   | Rohde&Schwarz    | ESR              | SZ-WRG-M-047  | 2025-01-08 | 2026-01-07   |
| Measurement Software                                | AUDIX            | e3 V8.2014-6-27a | N/A           | N/A        | N/A          |
| Coaxial Cable                                       | SGS              | N/A              | SEM024-01     | 2025-07-05 | 2026-07-04   |
| LISN                                                | Rohde&Schwarz    | ENV216           | SEM007-01     | 2025-07-25 | 2026-07-24   |
| LISN                                                | ETS-LINDGREN     | 3816/2           | SEM007-02     | 2025-03-03 | 2026-03-02   |

| Radiated Emissions which fall in the restricted bands |                                    |                 |               |            |              |
|-------------------------------------------------------|------------------------------------|-----------------|---------------|------------|--------------|
| Equipment                                             | Manufacturer                       | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| 3m Fully-Anechoic Chamber                             | AUDIX                              | N/A             | SEM001-02     | 2025-05-07 | 2028-05-06   |
| Signal Analyzer                                       | Rohde & Schwarz                    | FSV40           | SEM008-04     | 2025-03-04 | 2026-03-03   |
| Horn Antenna                                          | Rohde&Schwarz                      | HF907           | SEM003-07     | 2025-07-22 | 2026-07-21   |
| Microwave system amplifier                            | Agilent                            | 83017A          | SEM005-25     | 2024-09-14 | 2025-09-13   |
| Measurement Software                                  | AUDIX                              | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Coaxial Cable                                         | SGS                                | N/A             | SEM026-01     | 2025-07-05 | 2026-07-04   |
| Broad-Band Horn Antenna                               | Schwarzbeck                        | BBHA 9170       | SEM003-15     | 2025-07-22 | 2027-07-21   |
| Pre-Amplifier                                         | Compliance Directions Systems Inc. | PAP-2640-50     | SEM005-08     | 2025-03-21 | 2026-03-20   |

| Radiated Spurious Emissions Below 1GHz |                      |                 |               |            |              |
|----------------------------------------|----------------------|-----------------|---------------|------------|--------------|
| Equipment                              | Manufacturer         | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| Loop Antenna                           | ETS-Lindgren         | 6502            | SEM003-08     | 2023-11-20 | 2025-11-19   |
| 3m Semi-Anechoic Chamber               | ETS-LINDGREN         | N/A             | SEM001-01     | 2023-06-19 | 2026-06-18   |
| MXE EMI Receiver                       | Agilent Technologies | N9038A          | SEM004-15     | 2025-07-25 | 2026-07-24   |
| BiConiLog Antenna                      | ETS-LINDGREN         | 3142C           | SEM003-01     | 2023-09-16 | 2025-09-15   |
| Pre-Amplifier                          | Agilent Technologies | 8447D           | SEM005-01     | 2025-03-04 | 2026-03-03   |
| Measurement Software                   | AUDIX                | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Coaxial Cable                          | SGS                  | N/A             | SEM025-01     | 2025-07-05 | 2026-07-04   |



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| Radiated Spurious Emissions Above 1GHz |                                    |                 |               |            |              |
|----------------------------------------|------------------------------------|-----------------|---------------|------------|--------------|
| Equipment                              | Manufacturer                       | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| 3m Fully-Anechoic Chamber              | AUDIX                              | N/A             | SEM001-02     | 2025-05-07 | 2028-05-06   |
| Signal Analyzer                        | Rohde & Schwarz                    | FSV40           | SEM008-04     | 2025-03-04 | 2026-03-03   |
| Horn Antenna                           | Rohde&Schwarz                      | HF907           | SEM003-07     | 2025-07-22 | 2026-07-21   |
| Microwave system amplifier             | Agilent                            | 83017A          | SEM005-25     | 2024-09-14 | 2025-09-13   |
| Measurement Software                   | AUDIX                              | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Coaxial Cable                          | SGS                                | N/A             | SEM026-01     | 2025-07-05 | 2026-07-04   |
| Broad-Band Horn Antenna                | Schwarzbeck                        | BBHA 9170       | SEM003-15     | 2025-07-22 | 2027-07-21   |
| Pre-Amplifier                          | Compliance Directions Systems Inc. | PAP-2640-50     | SEM005-08     | 2025-03-21 | 2026-03-20   |

| General used equipment          |                                           |           |               |            |              |
|---------------------------------|-------------------------------------------|-----------|---------------|------------|--------------|
| Equipment                       | Manufacturer                              | Model No. | Inventory No. | Cal Date   | Cal Due Date |
| Humidity/ Temperature Indicator | deli                                      | 8838      | SEM002-32     | 2025-07-23 | 2026-07-22   |
| Humidity/ Temperature Indicator | deli                                      | 8838      | SEM002-33     | 2025-07-23 | 2026-07-22   |
| Barometer                       | Changchun Meteorological Industry Factory | DYM3      | SEM002-01     | 2025-03-03 | 2026-03-02   |



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna connector is a IPEX type that comply with Part15.203, the best case gain of the antenna1 is 4.3dBi.

Antenna location: Refer to internal photo.



## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2020) Section 6.2

Limit:

| Frequency of emission(MHz) | Conducted limit(dBμV) |           |
|----------------------------|-----------------------|-----------|
|                            | Quasi-peak            | Average   |
| 0.15-0.5                   | 66 to 56*             | 56 to 46* |
| 0.5-5                      | 56                    | 46        |
| 5-30                       | 60                    | 50        |

\*Decreases with the logarithm of the frequency.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

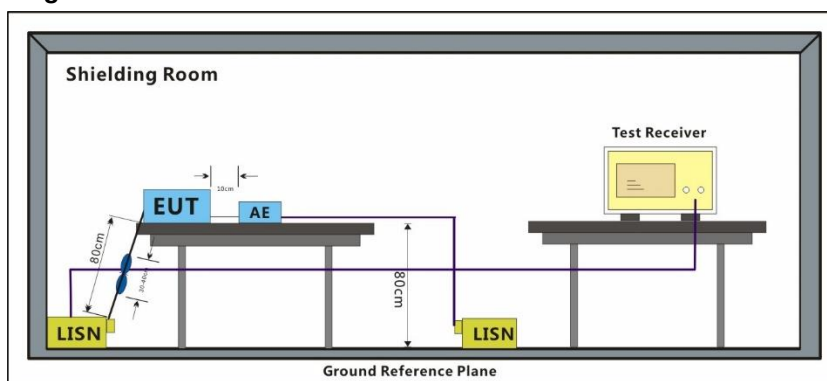
Humidity: 44.5 % RH

Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 09        | Charge + TX mode_Keep the EUT in charging and 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. |

#### 7.1.3 Test Setup Diagram



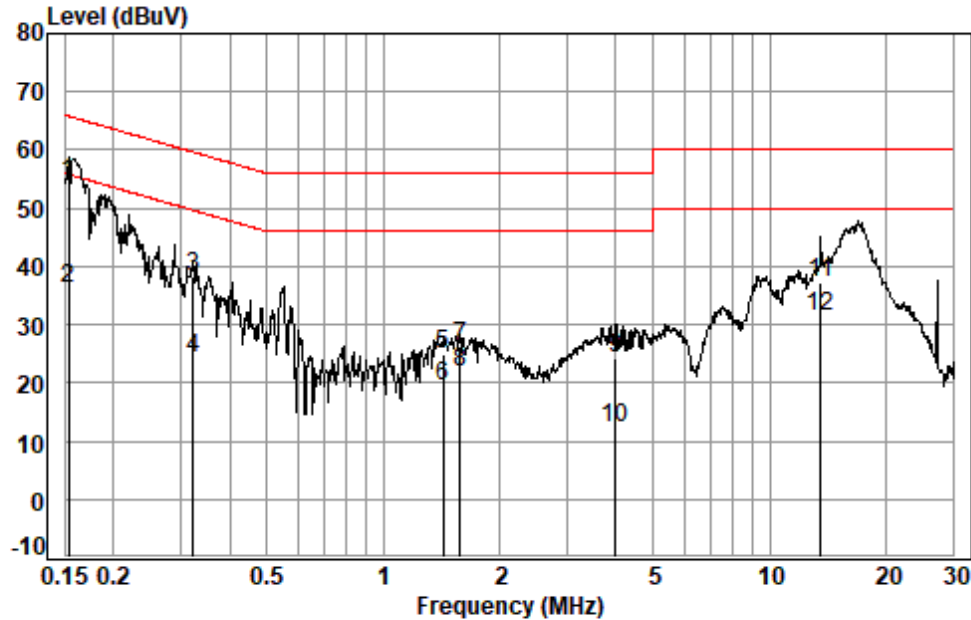
## 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark : Level=Read Level+ Cable Loss+ LISN Factor



Test Mode: 09; Line: Live line

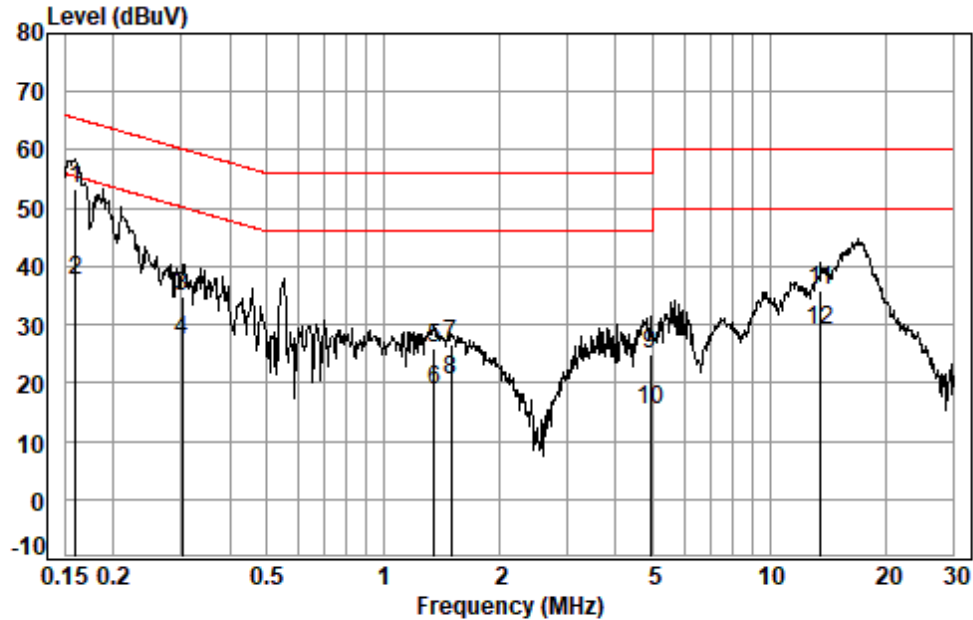


Site : Shielding Room  
Condition: Line  
Job No. : 03174AT  
Test mode: 09

|      | Freq    | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark  |
|------|---------|------------|-------------|------------|-------|------------|------------|---------|
|      | MHz     | dB         | dB          | dBuV       | dBuV  | dBuV       | dB         |         |
| 1 *  | 0.1532  | 0.05       | 10.19       | 44.08      | 54.32 | 65.82      | -11.50     | QP      |
| 2    | 0.1532  | 0.05       | 10.19       | 25.85      | 36.09 | 55.82      | -19.73     | Average |
| 3    | 0.3217  | 0.07       | 9.81        | 28.37      | 38.25 | 59.66      | -21.41     | QP      |
| 4    | 0.3217  | 0.07       | 9.81        | 14.44      | 24.32 | 49.66      | -25.34     | Average |
| 5    | 1.4257  | 0.11       | 9.58        | 15.18      | 24.87 | 56.00      | -31.13     | QP      |
| 6    | 1.4257  | 0.11       | 9.58        | 9.84       | 19.53 | 46.00      | -26.47     | Average |
| 7    | 1.5851  | 0.11       | 9.58        | 16.75      | 26.44 | 56.00      | -29.56     | QP      |
| 8    | 1.5851  | 0.11       | 9.58        | 12.29      | 21.98 | 46.00      | -24.02     | Average |
| 9    | 3.9850  | 0.13       | 9.66        | 14.47      | 24.26 | 56.00      | -31.74     | QP      |
| 10   | 3.9850  | 0.13       | 9.66        | 2.56       | 12.35 | 46.00      | -33.65     | Average |
| 11   | 13.5509 | 0.25       | 9.86        | 26.95      | 37.06 | 60.00      | -22.94     | QP      |
| 12 * | 13.5509 | 0.25       | 9.86        | 21.19      | 31.30 | 50.00      | -18.70     | Average |



Test Mode: 09; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 03174AT  
Test mode: 09

|     | Freq    | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark  |
|-----|---------|------------|-------------|------------|-------|------------|------------|---------|
|     | MHz     | dB         | dB          | dBuV       | dBuV  | dBuV       | dB         |         |
| 1 * | 0.1598  | 0.05       | 10.13       | 43.17      | 53.35 | 65.47      | -12.12     | QP      |
| 2 * | 0.1598  | 0.05       | 10.13       | 27.24      | 37.42 | 55.47      | -18.05     | Average |
| 3   | 0.3019  | 0.07       | 9.77        | 25.14      | 34.98 | 60.19      | -25.21     | QP      |
| 4   | 0.3019  | 0.07       | 9.77        | 17.41      | 27.25 | 50.19      | -22.94     | Average |
| 5   | 1.3521  | 0.11       | 9.54        | 16.21      | 25.86 | 56.00      | -30.14     | QP      |
| 6   | 1.3521  | 0.11       | 9.54        | 9.00       | 18.65 | 46.00      | -27.35     | Average |
| 7   | 1.5033  | 0.11       | 9.55        | 16.97      | 26.63 | 56.00      | -29.37     | QP      |
| 8   | 1.5033  | 0.11       | 9.55        | 10.87      | 20.53 | 46.00      | -25.47     | Average |
| 9   | 4.9257  | 0.13       | 9.56        | 15.37      | 25.06 | 56.00      | -30.94     | QP      |
| 10  | 4.9257  | 0.13       | 9.56        | 5.68       | 15.37 | 46.00      | -30.63     | Average |
| 11  | 13.5509 | 0.25       | 9.78        | 25.82      | 35.85 | 60.00      | -24.15     | QP      |
| 12  | 13.5509 | 0.25       | 9.78        | 18.90      | 28.93 | 50.00      | -21.07     | Average |



## 7.2 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 (2020) 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.

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 56.3 % RH

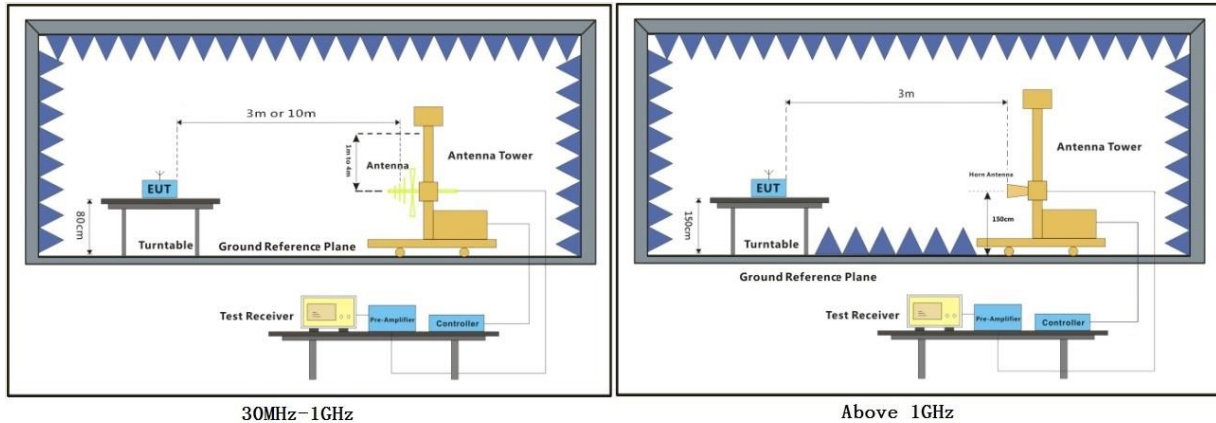
Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-scan              | 08        | 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.                       |
| Final test            | 09        | Charge + TX mode_Keep the EUT in charging and 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. |



### 7.2.3 Test Setup Diagram



## 7.2.4 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. 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

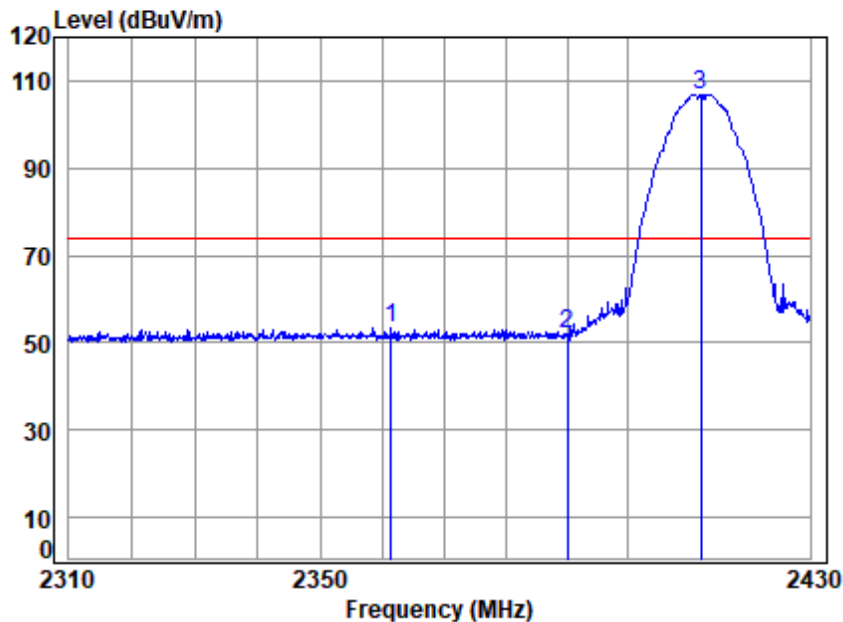
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level 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  $\geq 1/T$  (Duty cycle < 98%) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.



Test Mode: 09; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

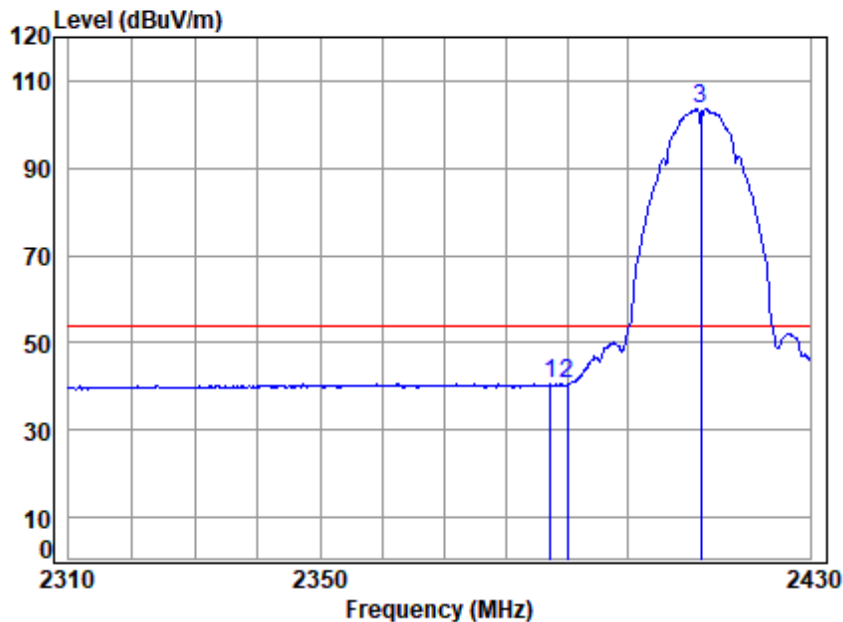


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2412 Band edge  
: 2.4G WIFI 11B

|      |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| Freq |          | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
| MHz  |          | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1    | 2361.454 | 16.09 | 29.10  | 32.80  | 40.97 | 53.36  | 74.00  | -20.64 | peak   |
| 2    | 2390.000 | 16.13 | 29.10  | 32.78  | 39.66 | 52.11  | 74.00  | -21.89 | peak   |
| 3 p  | 2412.000 | 16.17 | 29.05  | 32.77  | 94.49 | 106.94 | 74.00  | 32.94  | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

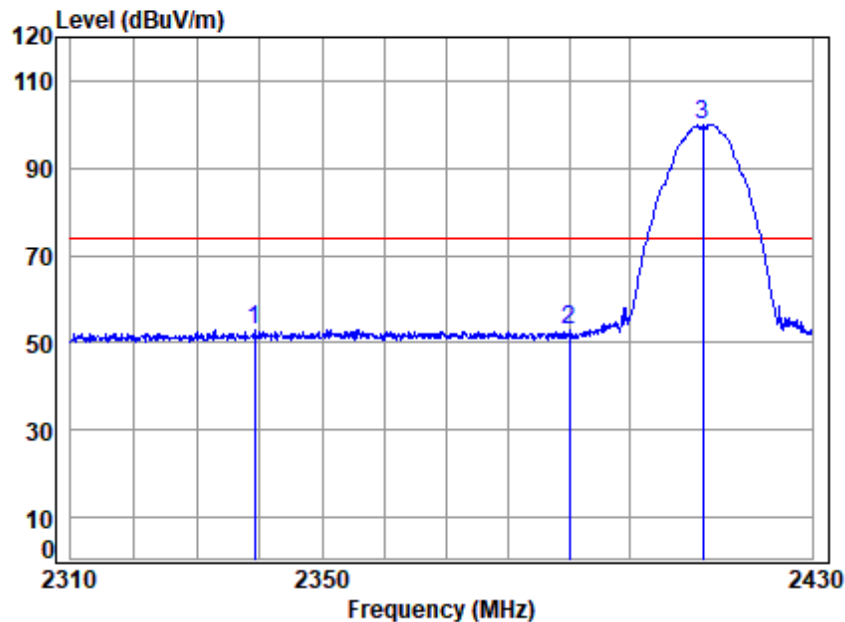


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2412 Band edge  
: 2.4G WIFI 11B

|      |          | Cable  | Ant    | Preamp | Read   | Limit  | Over  |                |
|------|----------|--------|--------|--------|--------|--------|-------|----------------|
| Freq | Loss     | Factor | Factor | Level  | Level  | Line   | Limit | Remark         |
| MHz  | dB       | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB    |                |
| 1    | 2387.307 | 16.13  | 29.10  | 32.78  | 28.15  | 40.60  | 54.00 | -13.40 Average |
| 2    | 2390.000 | 16.13  | 29.10  | 32.78  | 28.08  | 40.53  | 54.00 | -13.47 Average |
| 3 q  | 2412.000 | 16.17  | 29.05  | 32.77  | 91.34  | 103.79 | 54.00 | 49.79 Average  |



Test Mode: 09; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

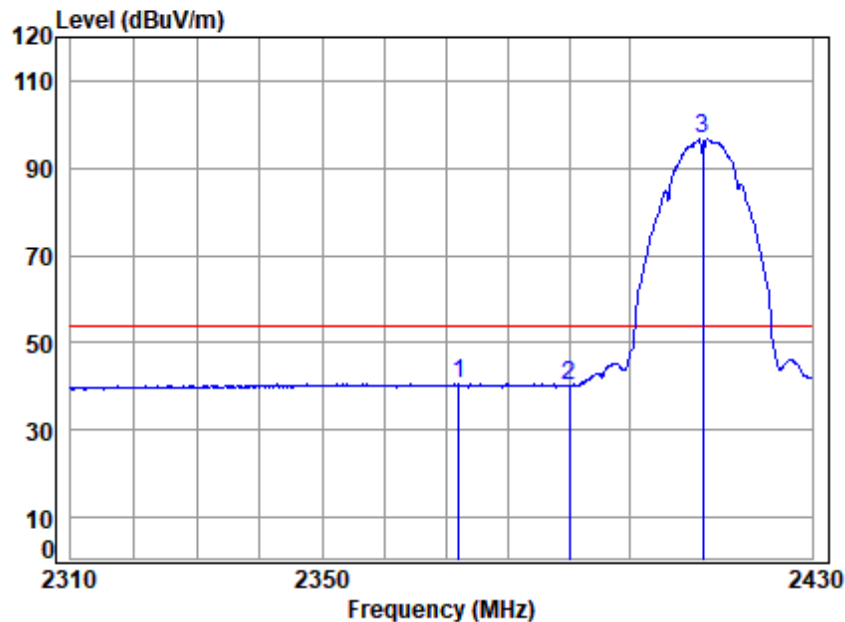


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2412 Band edge  
: 2.4G WIFI 11B

|     |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|-----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1   | 2339.196 | 16.06 | 28.95  | 32.81  | 40.89 | 53.09  | 74.00  | -20.91 | Peak   |
| 2   | 2390.000 | 16.13 | 29.10  | 32.78  | 40.35 | 52.80  | 74.00  | -21.20 | Peak   |
| 3 p | 2412.000 | 16.17 | 29.05  | 32.77  | 87.69 | 100.14 | 74.00  | 26.14  | Peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

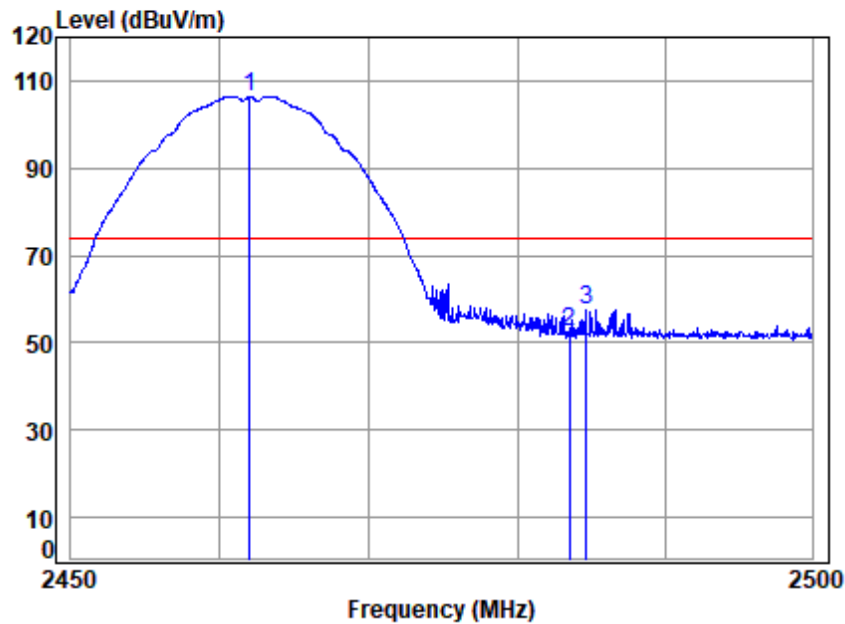


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2412 Band edge  
: 2.4G WIFI 11B

|          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |         |
|----------|-------|--------|--------|-------|--------|--------|--------|---------|
| Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark  |
| MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |         |
| 2372.002 | 16.11 | 29.10  | 32.79  | 28.22 | 40.64  | 54.00  | -13.36 | Average |
| 2390.000 | 16.13 | 29.10  | 32.78  | 27.82 | 40.27  | 54.00  | -13.73 | Average |
| 2412.000 | 16.17 | 29.05  | 32.77  | 84.33 | 96.78  | 54.00  | 42.78  | Average |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

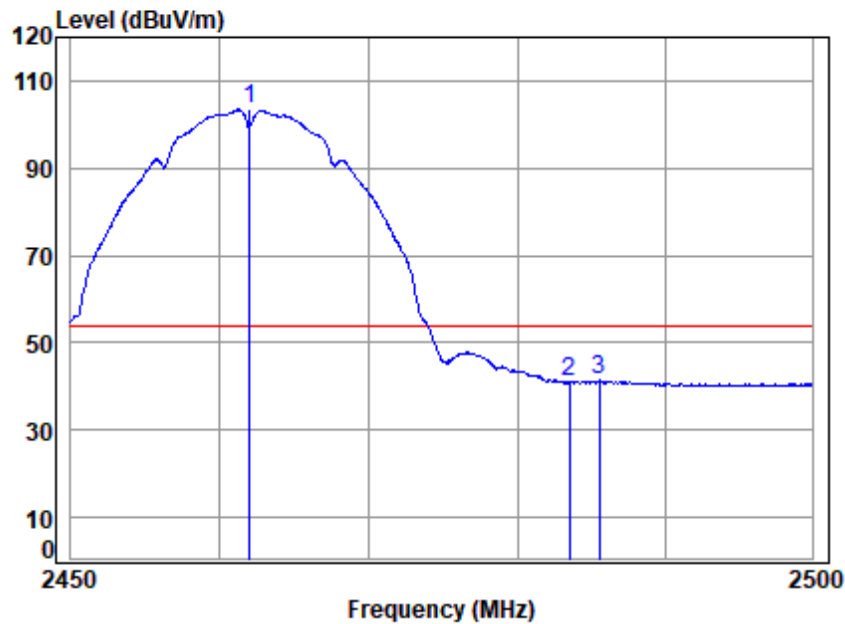


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2462 Band edge  
: 2.4G WIFI 11B

|     |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|-----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 p | 2462.000 | 16.24 | 28.90  | 32.74  | 94.14 | 106.54 | 74.00  | 32.54  | peak   |
| 2   | 2483.500 | 16.28 | 28.90  | 32.73  | 39.95 | 52.40  | 74.00  | -21.60 | peak   |
| 3   | 2484.643 | 16.28 | 28.90  | 32.73  | 45.20 | 57.65  | 74.00  | -16.35 | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

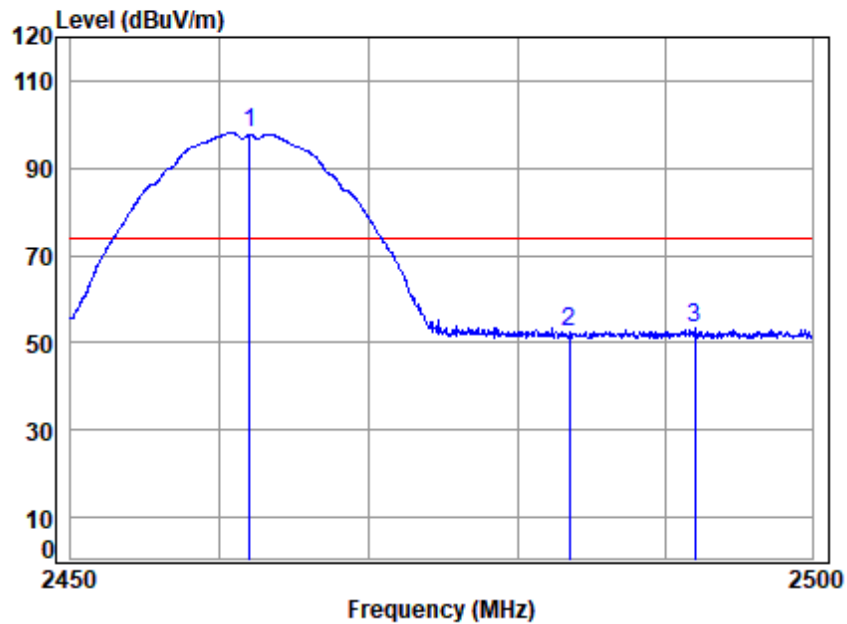


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2462 Band edge  
: 2.4G WIFI 11B

|     |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |         |
|-----|----------|-------|--------|--------|-------|--------|--------|--------|---------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark  |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |         |
| 1 q | 2462.000 | 16.24 | 28.90  | 32.74  | 90.98 | 103.38 | 54.00  | 49.38  | Average |
| 2   | 2483.500 | 16.28 | 28.90  | 32.73  | 28.45 | 40.90  | 54.00  | -13.10 | Average |
| 3   | 2485.546 | 16.28 | 28.90  | 32.73  | 28.84 | 41.29  | 54.00  | -12.71 | Average |



Test Mode: 09; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 03174AT

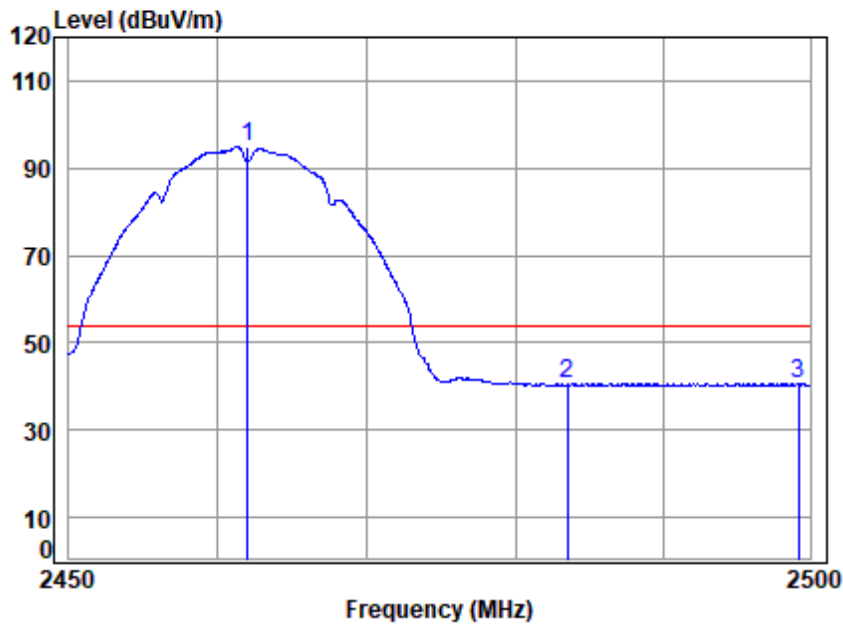
Mode : 2462 Band edge

: 2.4G WIFI 11B

|     |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |             |
|-----|----------|-------|--------|--------|-------|--------|--------|-------------|
|     | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark      |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 p | 2462.000 | 16.24 | 28.90  | 32.74  | 85.61 | 98.01  | 74.00  | 24.01 Peak  |
| 2   | 2483.500 | 16.28 | 28.90  | 32.73  | 39.98 | 52.43  | 74.00  | -21.57 Peak |
| 3   | 2492.033 | 16.29 | 28.90  | 32.73  | 40.75 | 53.21  | 74.00  | -20.79 Peak |



Test Mode: 09; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 03174AT

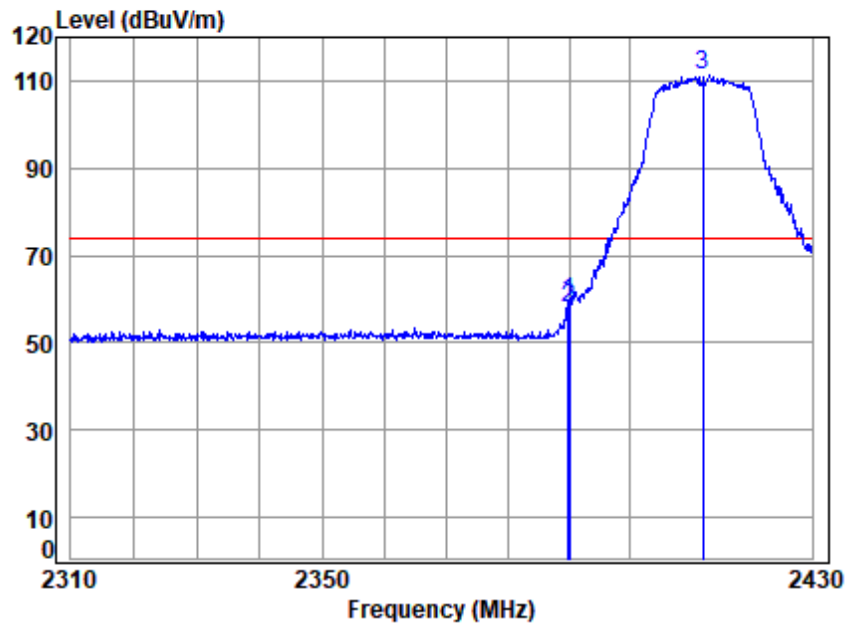
Mode : 2462 Band edge

: 2.4G WIFI 11B

|     |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |                |
|-----|----------|-------|--------|--------|-------|--------|--------|----------------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark   |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB             |
| 1 q | 2462.000 | 16.24 | 28.90  | 32.74  | 82.40 | 94.80  | 54.00  | 40.80 Average  |
| 2   | 2483.500 | 16.28 | 28.90  | 32.73  | 27.98 | 40.43  | 54.00  | -13.57 Average |
| 3   | 2499.192 | 16.30 | 28.90  | 32.73  | 28.36 | 40.83  | 54.00  | -13.17 Average |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

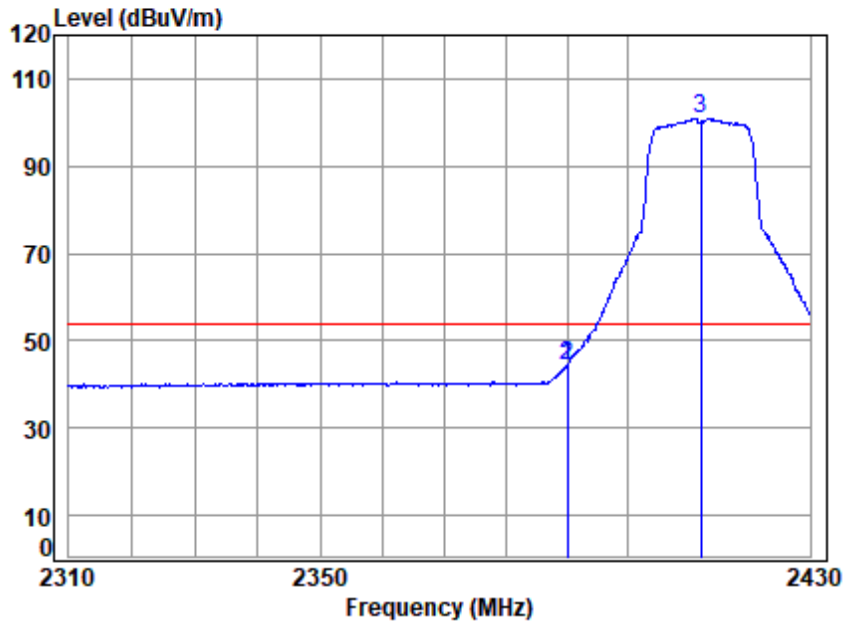


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2412 Band edge  
: 2.4G WIFI 11G

|     |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|-----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1   | 2389.847 | 16.13 | 29.10  | 32.78  | 46.73 | 59.18  | 74.00  | -14.82 | peak   |
| 2   | 2390.000 | 16.13 | 29.10  | 32.78  | 45.72 | 58.17  | 74.00  | -15.83 | peak   |
| 3 p | 2412.000 | 16.17 | 29.05  | 32.77  | 98.70 | 111.15 | 74.00  | 37.15  | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

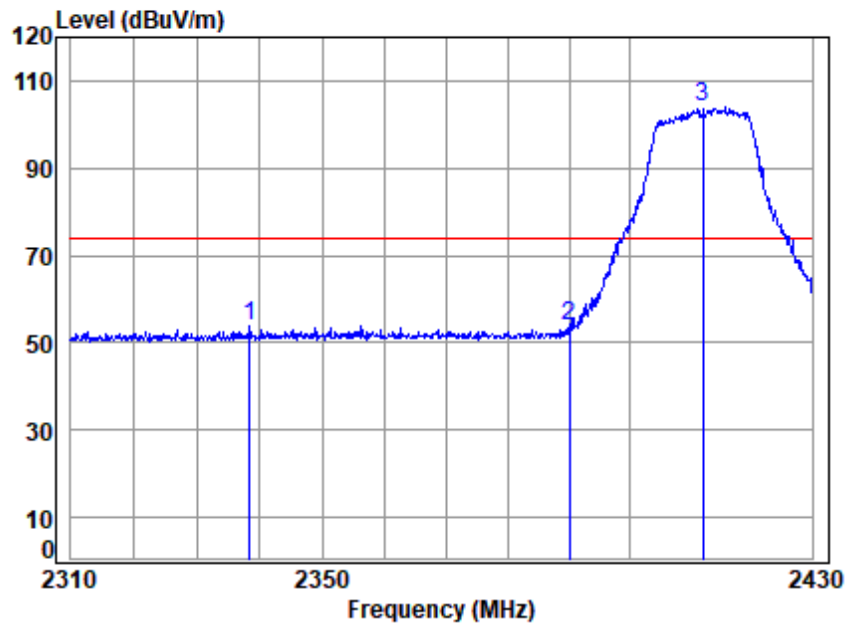


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2412 Band edge  
: 2.4G WIFI 11G

|     |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over  |         |
|-----|----------|-------|--------|--------|-------|--------|--------|-------|---------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit | Remark  |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB    |         |
| 1   | 2389.968 | 16.13 | 29.10  | 32.78  | 32.02 | 44.47  | 54.00  | -9.53 | Average |
| 2   | 2390.000 | 16.13 | 29.10  | 32.78  | 32.02 | 44.47  | 54.00  | -9.53 | Average |
| 3 q | 2412.000 | 16.17 | 29.05  | 32.77  | 88.48 | 100.93 | 54.00  | 46.93 | Average |



Test Mode: 09; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

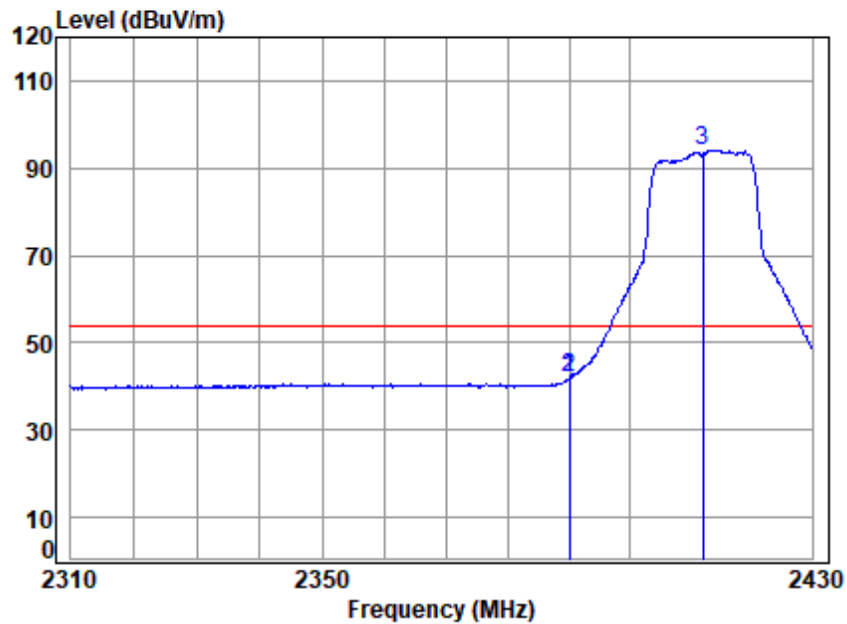


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2412 Band edge  
: 2.4G WIFI 11G

|     |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|-----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1   | 2338.485 | 16.05 | 28.94  | 32.81  | 41.82 | 54.00  | 74.00  | -20.00 | Peak   |
| 2   | 2390.000 | 16.13 | 29.10  | 32.78  | 41.18 | 53.63  | 74.00  | -20.37 | Peak   |
| 3 p | 2412.000 | 16.17 | 29.05  | 32.77  | 91.37 | 103.82 | 74.00  | 29.82  | Peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

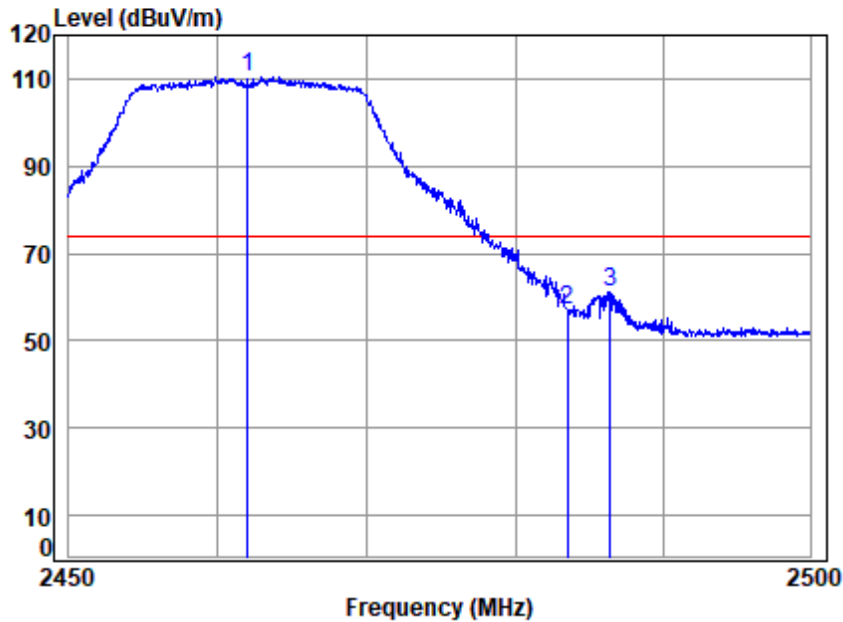


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2412 Band edge  
: 2.4G WIFI 11G

|     |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |                |
|-----|----------|-------|--------|--------|-------|--------|--------|----------------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark   |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB             |
| 1   | 2389.968 | 16.13 | 29.10  | 32.78  | 29.56 | 42.01  | 54.00  | -11.99 Average |
| 2   | 2390.000 | 16.13 | 29.10  | 32.78  | 29.56 | 42.01  | 54.00  | -11.99 Average |
| 3 q | 2412.000 | 16.17 | 29.05  | 32.77  | 81.68 | 94.13  | 54.00  | 40.13 Average  |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High

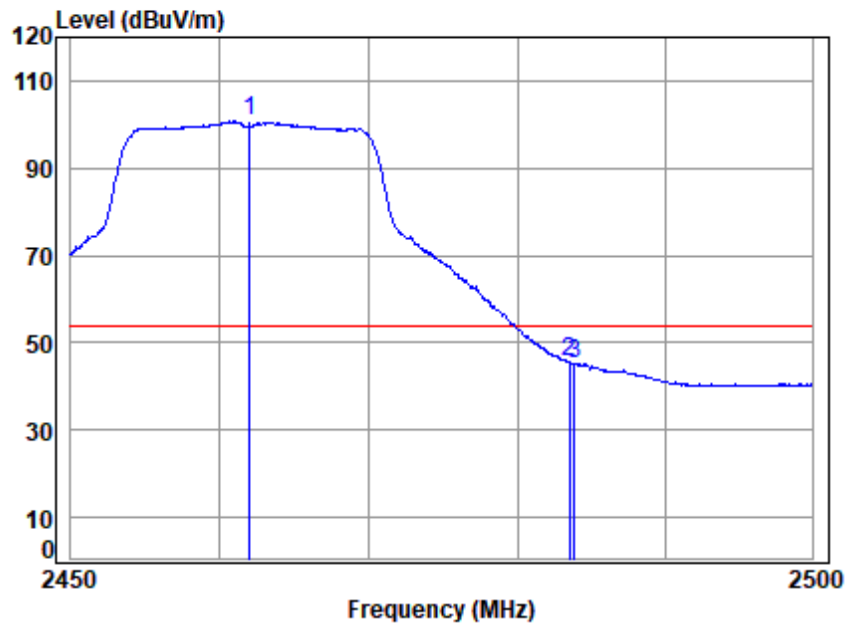


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2462 Band edge  
: 2.4G WIFI 11G

|     |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |             |
|-----|----------|-------|--------|--------|-------|--------|--------|-------------|
|     | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark      |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 p | 2462.000 | 16.24 | 28.90  | 32.74  | 97.99 | 110.39 | 74.00  | 36.39 peak  |
| 2   | 2483.500 | 16.28 | 28.90  | 32.73  | 44.63 | 57.08  | 74.00  | -16.92 peak |
| 3   | 2486.400 | 16.28 | 28.90  | 32.73  | 48.91 | 61.36  | 74.00  | -12.64 peak |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High

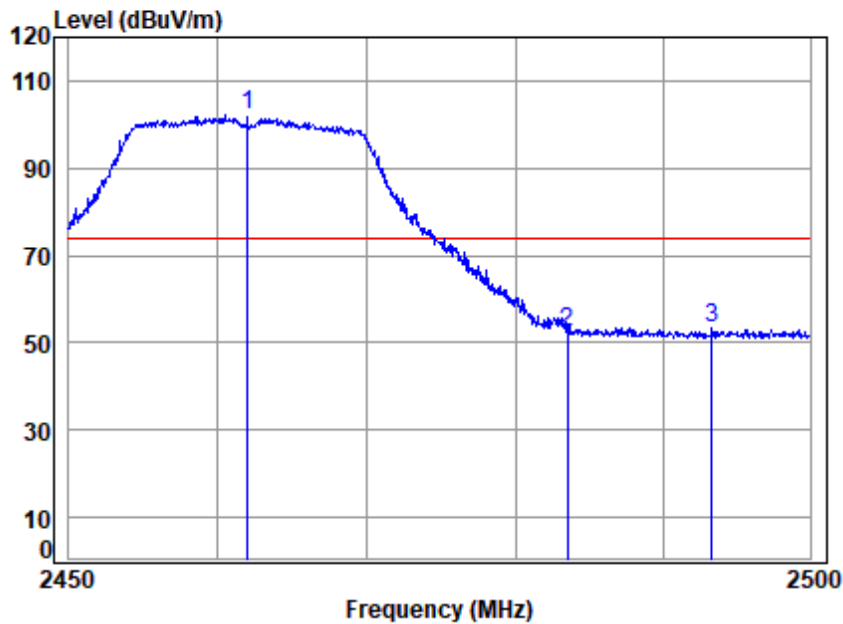


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2462 Band edge  
: 2.4G WIFI 11G

|     |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|-----|----------|-------|--------|--------|-------|--------|--------|---------------|
|     | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark        |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 q | 2462.000 | 16.24 | 28.90  | 32.74  | 88.27 | 100.67 | 54.00  | 46.67 Average |
| 2   | 2483.500 | 16.28 | 28.90  | 32.73  | 33.03 | 45.48  | 54.00  | -8.52 Average |
| 3   | 2483.840 | 16.28 | 28.90  | 32.73  | 32.81 | 45.26  | 54.00  | -8.74 Average |



Test Mode: 09; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 03174AT

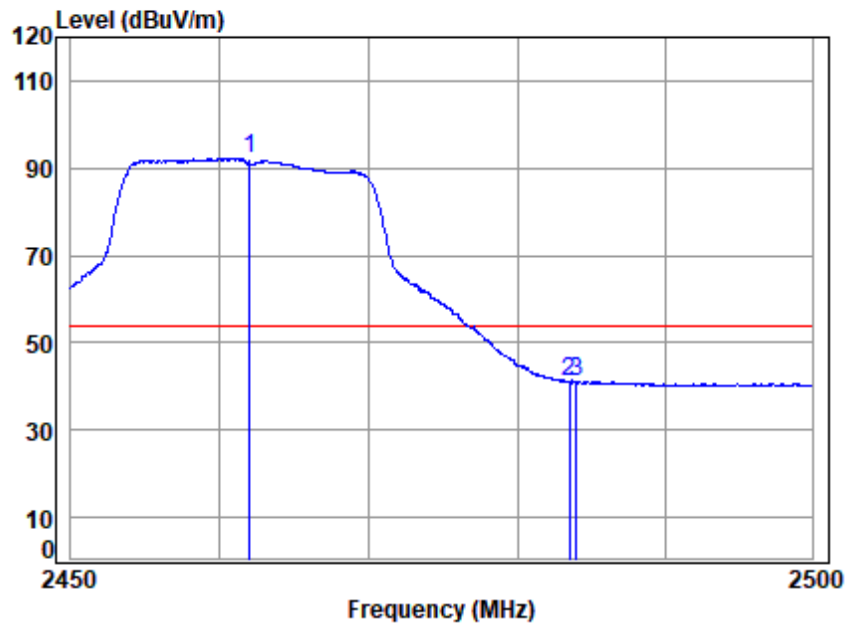
Mode : 2462 Band edge

: 2.4G WIFI 11G

|     |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |             |
|-----|----------|-------|--------|--------|-------|--------|--------|-------------|
|     | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark      |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 p | 2462.000 | 16.24 | 28.90  | 32.74  | 89.67 | 102.07 | 74.00  | 28.07 Peak  |
| 2   | 2483.500 | 16.28 | 28.90  | 32.73  | 40.25 | 52.70  | 74.00  | -21.30 Peak |
| 3   | 2493.292 | 16.29 | 28.90  | 32.73  | 41.12 | 53.58  | 74.00  | -20.42 Peak |



Test Mode: 09; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High

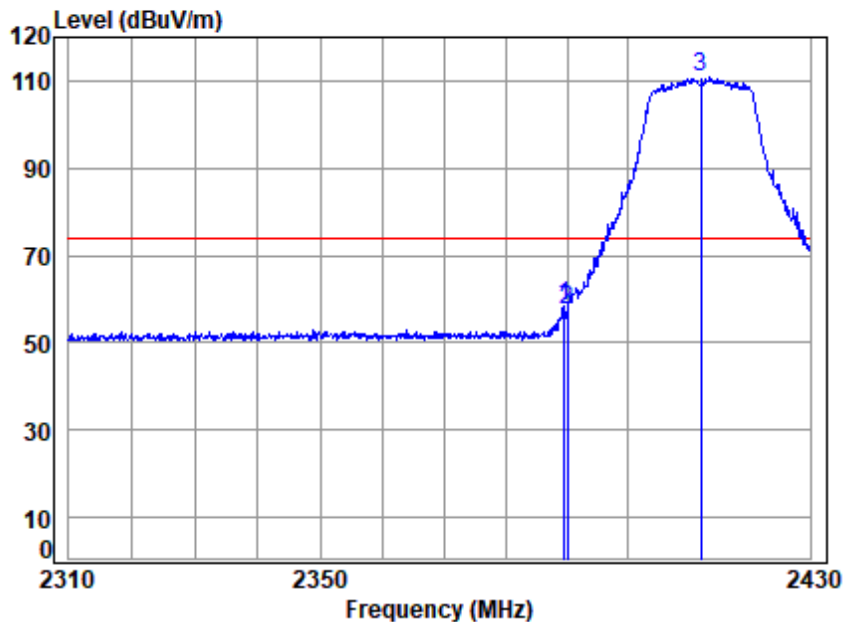


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2462 Band edge  
: 2.4G WIFI 11G

|     |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |                |
|-----|----------|-------|--------|--------|-------|--------|--------|----------------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark   |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB             |
| 1 q | 2462.000 | 16.24 | 28.90  | 32.74  | 79.91 | 92.31  | 54.00  | 38.31 Average  |
| 2   | 2483.500 | 16.28 | 28.90  | 32.73  | 28.63 | 41.08  | 54.00  | -12.92 Average |
| 3   | 2483.990 | 16.28 | 28.90  | 32.73  | 28.60 | 41.05  | 54.00  | -12.95 Average |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

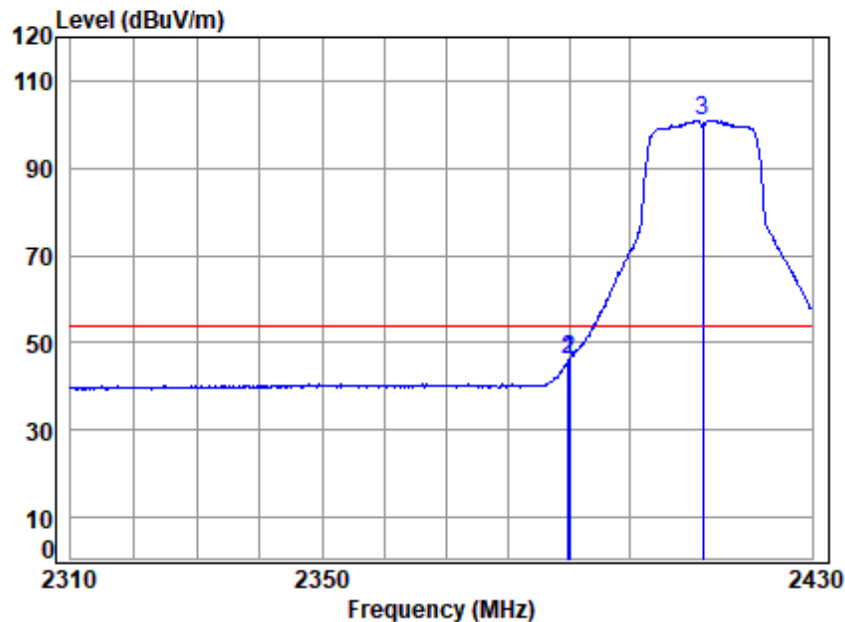


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2412 Band edge  
: 2.4G WIFI 11N20

|     |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|-----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1   | 2389.484 | 16.13 | 29.10  | 32.78  | 45.93 | 58.38  | 74.00  | -15.62 | peak   |
| 2   | 2390.000 | 16.13 | 29.10  | 32.78  | 44.95 | 57.40  | 74.00  | -16.60 | peak   |
| 3 p | 2412.000 | 16.17 | 29.05  | 32.77  | 98.23 | 110.68 | 74.00  | 36.68  | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

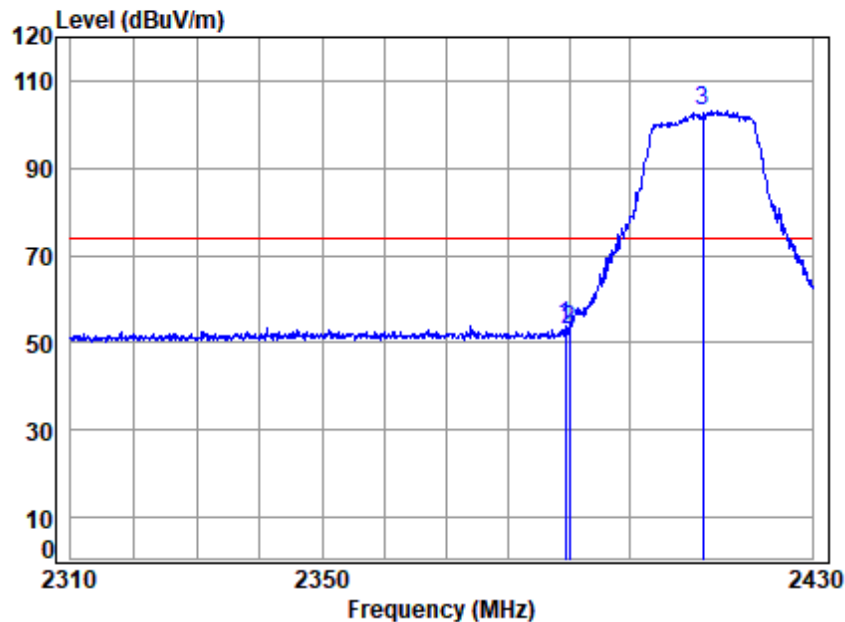


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2412 Band edge  
: 2.4G WIFI 11N20

|     |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over  |         |
|-----|----------|-------|--------|--------|-------|--------|--------|-------|---------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit | Remark  |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB    |         |
| 1   | 2389.847 | 16.13 | 29.10  | 32.78  | 33.66 | 46.11  | 54.00  | -7.89 | Average |
| 2   | 2390.000 | 16.13 | 29.10  | 32.78  | 33.65 | 46.10  | 54.00  | -7.90 | Average |
| 3 q | 2412.000 | 16.17 | 29.05  | 32.77  | 88.61 | 101.06 | 54.00  | 47.06 | Average |



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

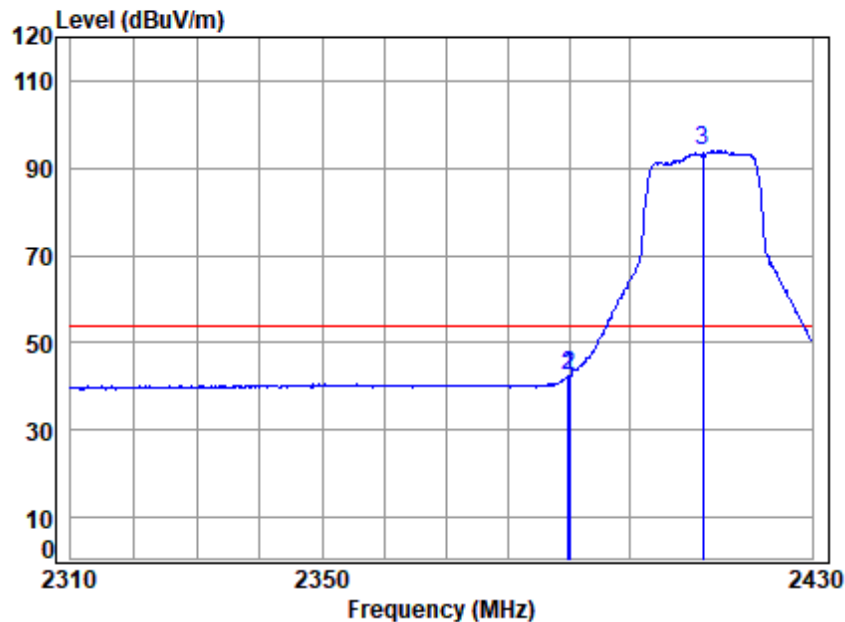


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2412 Band edge  
: 2.4G WIFI 11N20

|     |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|-----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1   | 2389.363 | 16.13 | 29.10  | 32.78  | 41.55 | 54.00  | 74.00  | -20.00 | Peak   |
| 2   | 2390.000 | 16.13 | 29.10  | 32.78  | 40.58 | 53.03  | 74.00  | -20.97 | Peak   |
| 3 p | 2412.000 | 16.17 | 29.05  | 32.77  | 90.76 | 103.21 | 74.00  | 29.21  | Peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

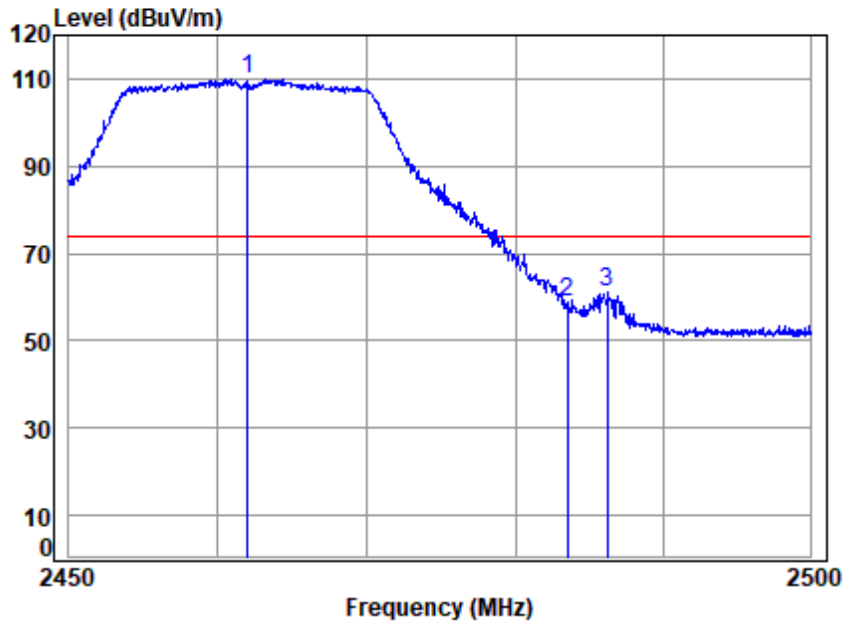


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2412 Band edge  
: 2.4G WIFI 11N20

|              |       | Cable  | Ant    | Preamp | Read   | Limit  | Over   |         |
|--------------|-------|--------|--------|--------|--------|--------|--------|---------|
| Freq         | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  | Remark  |
| MHz          | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |         |
| 1 2389.847   | 16.13 | 29.10  | 32.78  | 30.18  | 42.63  | 54.00  | -11.37 | Average |
| 2 2390.000   | 16.13 | 29.10  | 32.78  | 30.07  | 42.52  | 54.00  | -11.48 | Average |
| 3 q 2412.000 | 16.17 | 29.05  | 32.77  | 81.60  | 94.05  | 54.00  | 40.05  | Average |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

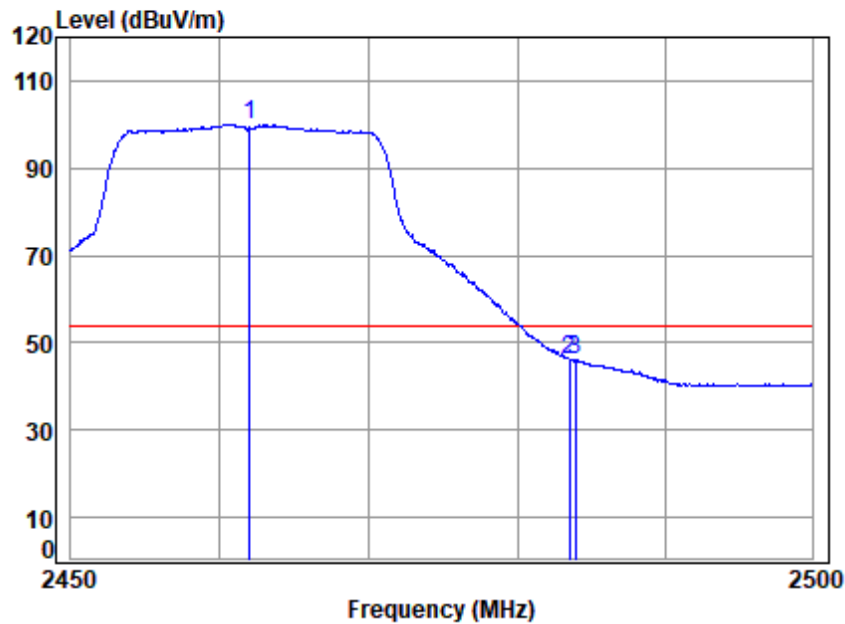


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2462 Band edge  
: 2.4G WIFI 11N20

|              |       | Cable  | Ant    | Preamp | Read   | Limit  | Over   |        |
|--------------|-------|--------|--------|--------|--------|--------|--------|--------|
| Freq         | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  | Remark |
| MHz          | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |        |
| 1 p 2462.000 | 16.24 | 28.90  | 32.74  | 97.58  | 109.98 | 74.00  | 35.98  | peak   |
| 2 2483.500   | 16.28 | 28.90  | 32.73  | 46.41  | 58.86  | 74.00  | -15.14 | peak   |
| 3 2486.250   | 16.28 | 28.90  | 32.73  | 48.53  | 60.98  | 74.00  | -13.02 | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

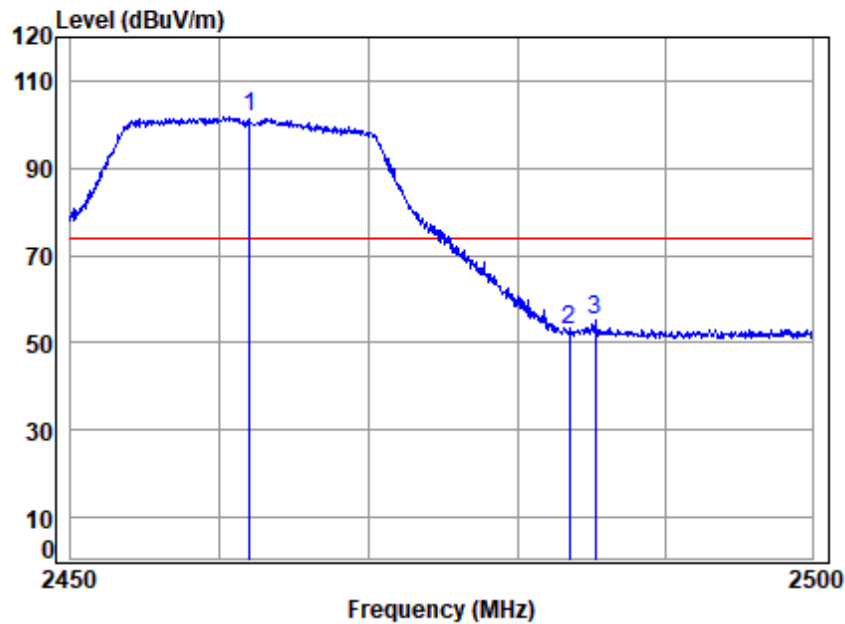


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2462 Band edge  
: 2.4G WIFI 11N20

|   |            | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq       | Loss  | Factor | Factor | Level | Level  | Limit  | Remark        |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | q 2462.000 | 16.24 | 28.90  | 32.74  | 87.56 | 99.96  | 54.00  | 45.96 Average |
| 2 | 2483.500   | 16.28 | 28.90  | 32.73  | 33.80 | 46.25  | 54.00  | -7.75 Average |
| 3 | 2483.940   | 16.28 | 28.90  | 32.73  | 33.67 | 46.12  | 54.00  | -7.88 Average |



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

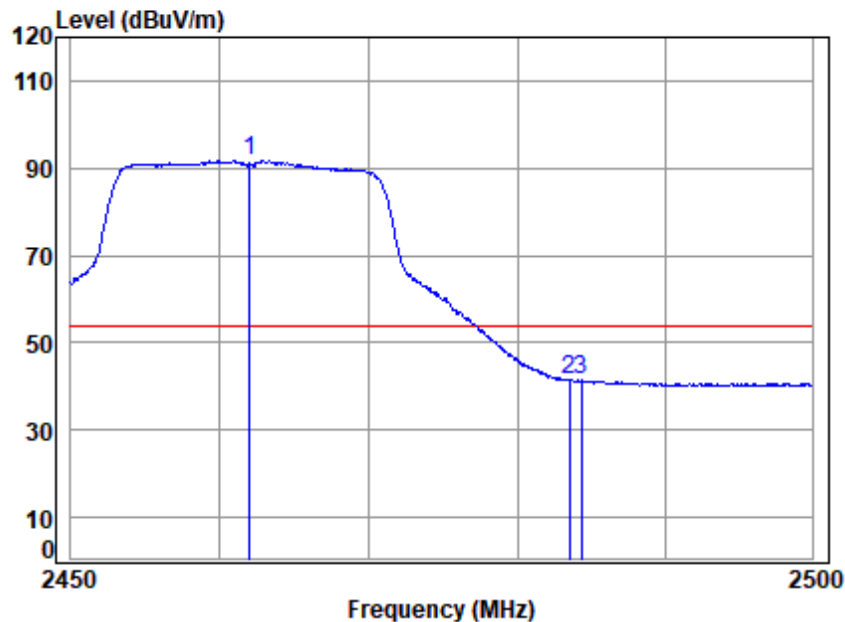


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2462 Band edge  
: 2.4G WIFI 11N20

|     |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|-----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 p | 2462.000 | 16.24 | 28.90  | 32.74  | 89.14 | 101.54 | 74.00  | 27.54  | Peak   |
| 2   | 2483.500 | 16.28 | 28.90  | 32.73  | 40.27 | 52.72  | 74.00  | -21.28 | Peak   |
| 3   | 2485.245 | 16.28 | 28.90  | 32.73  | 42.68 | 55.13  | 74.00  | -18.87 | Peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

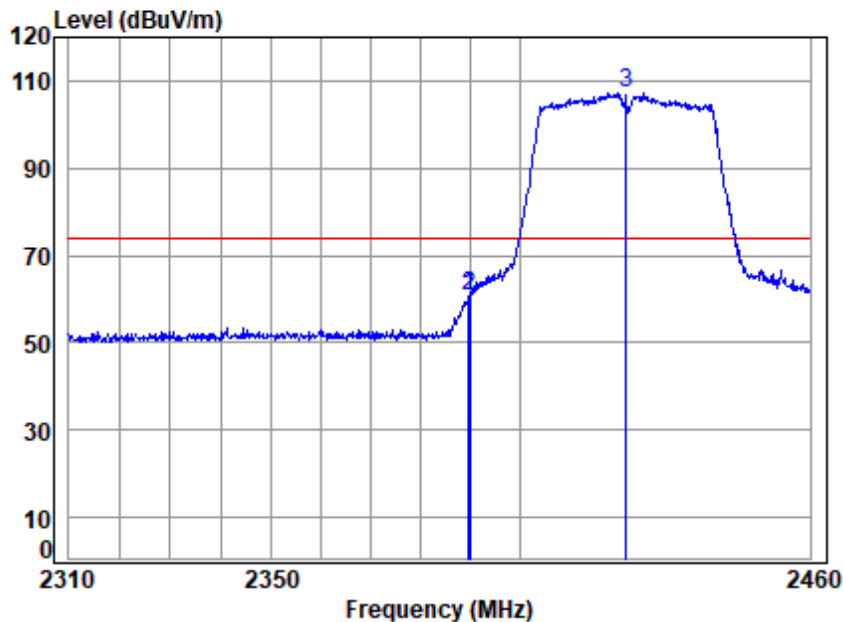


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2462 Band edge  
: 2.4G WIFI 11N20

|     |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |                |
|-----|----------|-------|--------|--------|-------|--------|--------|----------------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark   |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB             |
| 1 q | 2462.000 | 16.24 | 28.90  | 32.74  | 79.33 | 91.73  | 54.00  | 37.73 Average  |
| 2   | 2483.500 | 16.28 | 28.90  | 32.73  | 29.09 | 41.54  | 54.00  | -12.46 Average |
| 3   | 2484.342 | 16.28 | 28.90  | 32.73  | 29.05 | 41.50  | 54.00  | -12.50 Average |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

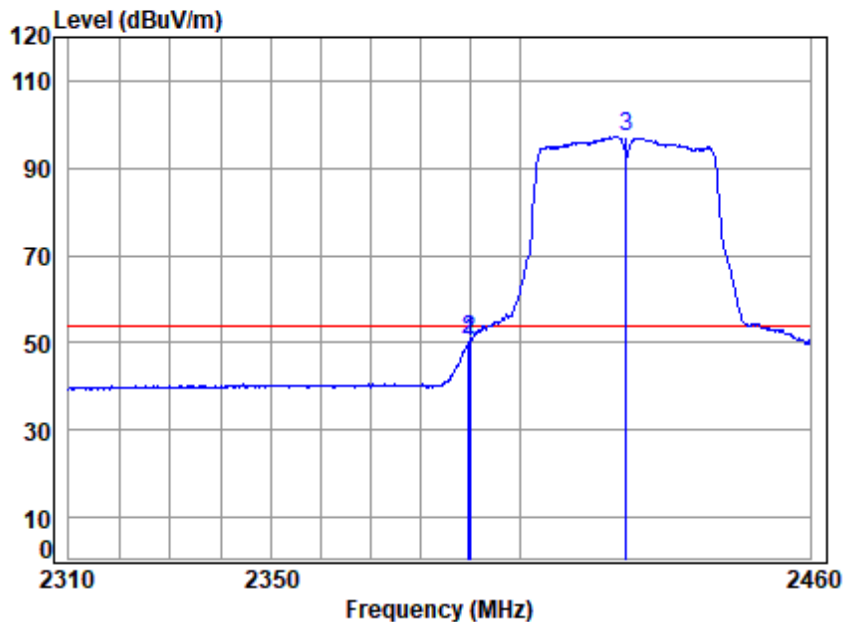


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2422 Band edge  
: 2.4G WIFI 11N40

|              |       | Cable  | Ant    | Preamp | Read   | Limit  | Over   |        |
|--------------|-------|--------|--------|--------|--------|--------|--------|--------|
| Freq         | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  | Remark |
| MHz          | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |        |
| 1 2389.827   | 16.13 | 29.10  | 32.78  | 48.27  | 60.72  | 74.00  | -13.28 | peak   |
| 2 2390.000   | 16.13 | 29.10  | 32.78  | 48.40  | 60.85  | 74.00  | -13.15 | peak   |
| 3 p 2422.000 | 16.18 | 29.01  | 32.76  | 94.98  | 107.41 | 74.00  | 33.41  | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

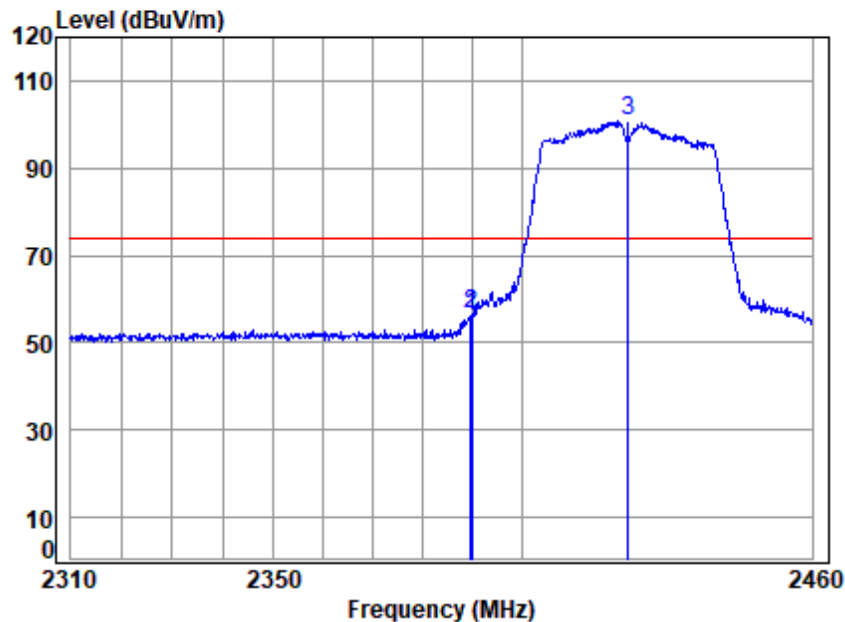


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2422 Band edge  
: 2.4G WIFI 11N40

|      |          | Cable  | Ant    | Preamp | Read   | Limit  | Over  |               |
|------|----------|--------|--------|--------|--------|--------|-------|---------------|
| Freq | Loss     | Factor | Factor | Level  | Level  | Line   | Limit | Remark        |
| MHz  | dB       | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB    |               |
| 1    | 2389.827 | 16.13  | 29.10  | 32.78  | 37.58  | 50.03  | 54.00 | -3.97 Average |
| 2    | 2390.000 | 16.13  | 29.10  | 32.78  | 38.25  | 50.70  | 54.00 | -3.30 Average |
| 3 q  | 2422.000 | 16.18  | 29.01  | 32.76  | 84.83  | 97.26  | 54.00 | 43.26 Average |



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

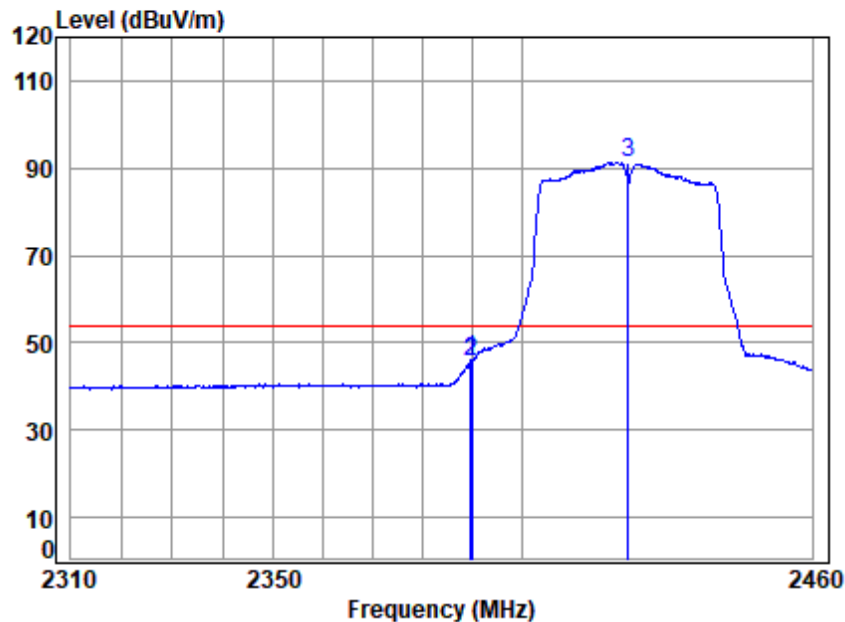


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2422 Band edge  
: 2.4G WIFI 11N40

|     |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|-----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1   | 2389.827 | 16.13 | 29.10  | 32.78  | 43.45 | 55.90  | 74.00  | -18.10 | Peak   |
| 2   | 2390.000 | 16.13 | 29.10  | 32.78  | 44.24 | 56.69  | 74.00  | -17.31 | Peak   |
| 3 p | 2422.000 | 16.18 | 29.01  | 32.76  | 88.24 | 100.67 | 74.00  | 26.67  | Peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

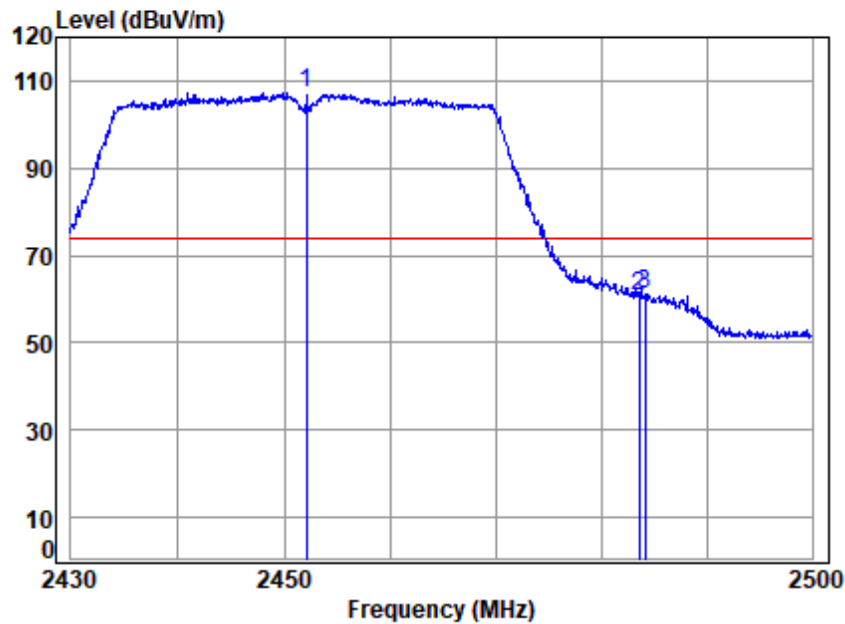


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2422 Band edge  
: 2.4G WIFI 11N40

|      |          | Cable  | Ant    | Preamp | Read   | Limit  | Over  |               |
|------|----------|--------|--------|--------|--------|--------|-------|---------------|
| Freq | Loss     | Factor | Factor | Level  | Level  | Line   | Limit | Remark        |
| MHz  | dB       | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB    |               |
| 1    | 2389.677 | 16.13  | 29.10  | 32.78  | 33.42  | 45.87  | 54.00 | -8.13 Average |
| 2    | 2390.000 | 16.13  | 29.10  | 32.78  | 33.33  | 45.78  | 54.00 | -8.22 Average |
| 3 q  | 2422.000 | 16.18  | 29.01  | 32.76  | 78.93  | 91.36  | 54.00 | 37.36 Average |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

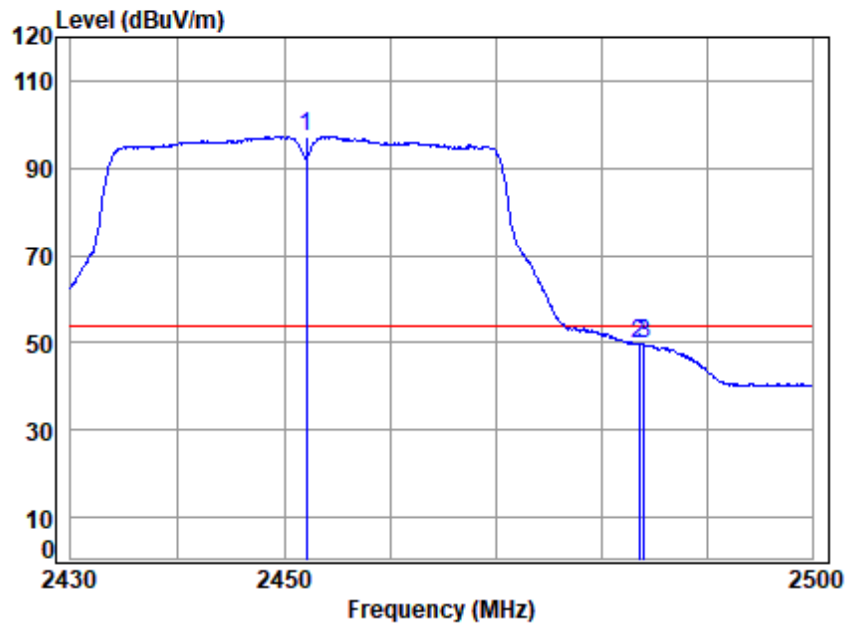


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2452 Band edge  
: 2.4G WIFI 11N40

|     |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|-----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 p | 2452.000 | 16.23 | 28.90  | 32.75  | 94.86 | 107.24 | 74.00  | 33.24  | peak   |
| 2   | 2483.500 | 16.28 | 28.90  | 32.73  | 48.37 | 60.82  | 74.00  | -13.18 | peak   |
| 3   | 2484.076 | 16.28 | 28.90  | 32.73  | 48.88 | 61.33  | 74.00  | -12.67 | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

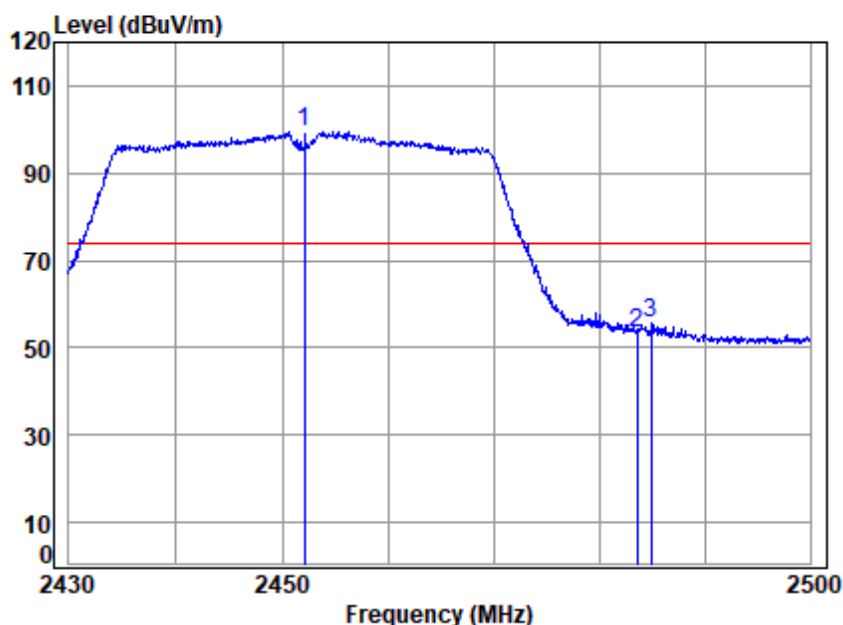


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2452 Band edge  
: 2.4G WIFI 11N40

|              |       | Cable  | Ant    | Preamp | Read   | Limit  | Over  |         |
|--------------|-------|--------|--------|--------|--------|--------|-------|---------|
| Freq         | Loss  | Factor | Factor | Level  | Level  | Line   | Limit | Remark  |
| MHz          | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB    |         |
| 1 q 2452.000 | 16.23 | 28.90  | 32.75  | 84.87  | 97.25  | 54.00  | 43.25 | Average |
| 2 2483.500   | 16.28 | 28.90  | 32.73  | 37.11  | 49.56  | 54.00  | -4.44 | Average |
| 3 2484.006   | 16.28 | 28.90  | 32.73  | 37.07  | 49.52  | 54.00  | -4.48 | Average |



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High

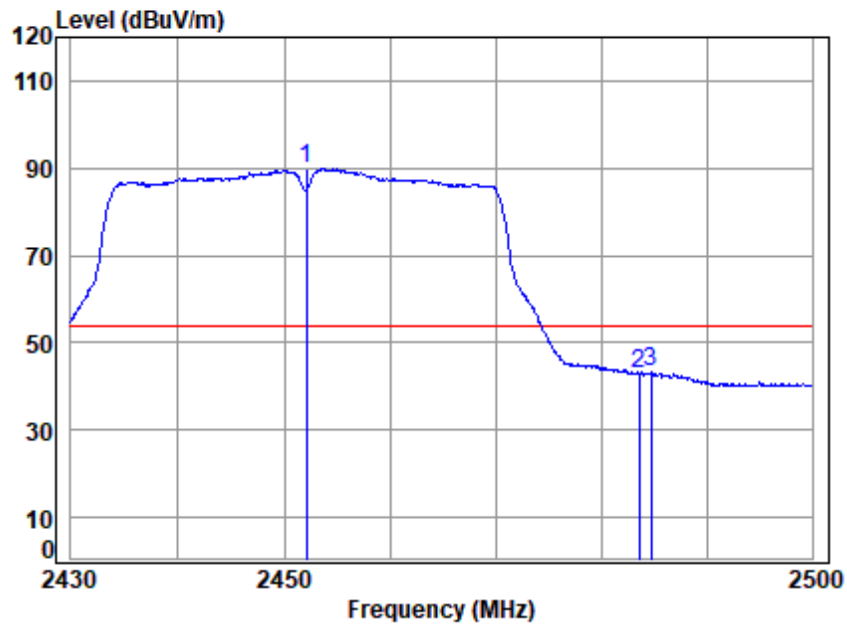


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2452 Band edge  
: 2.4G WIFI 11N40

|              |       | Cable  | Ant    | Preamp | Read   | Limit  | Over   |        |
|--------------|-------|--------|--------|--------|--------|--------|--------|--------|
| Freq         | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  | Remark |
| MHz          | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |        |
| 1 p 2452.000 | 16.23 | 28.90  | 32.75  | 87.18  | 99.56  | 74.00  | 25.56  | Peak   |
| 2 2483.500   | 16.28 | 28.90  | 32.73  | 40.94  | 53.39  | 74.00  | -20.61 | Peak   |
| 3 2484.852   | 16.28 | 28.90  | 32.73  | 43.36  | 55.81  | 74.00  | -18.19 | Peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2452 Band edge  
: 2.4G WIFI 11N40

|              |       | Cable  | Ant    | Preamp | Read   | Limit  | Over   |         |
|--------------|-------|--------|--------|--------|--------|--------|--------|---------|
| Freq         | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  | Remark  |
| MHz          | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |         |
| 1 q 2452.000 | 16.23 | 28.90  | 32.75  | 77.43  | 89.81  | 54.00  | 35.81  | Average |
| 2 2483.500   | 16.28 | 28.90  | 32.73  | 30.52  | 42.97  | 54.00  | -11.03 | Average |
| 3 2484.641   | 16.28 | 28.90  | 32.73  | 30.69  | 43.14  | 54.00  | -10.86 | Average |



### 7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) 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                            |

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 45.6 % RH

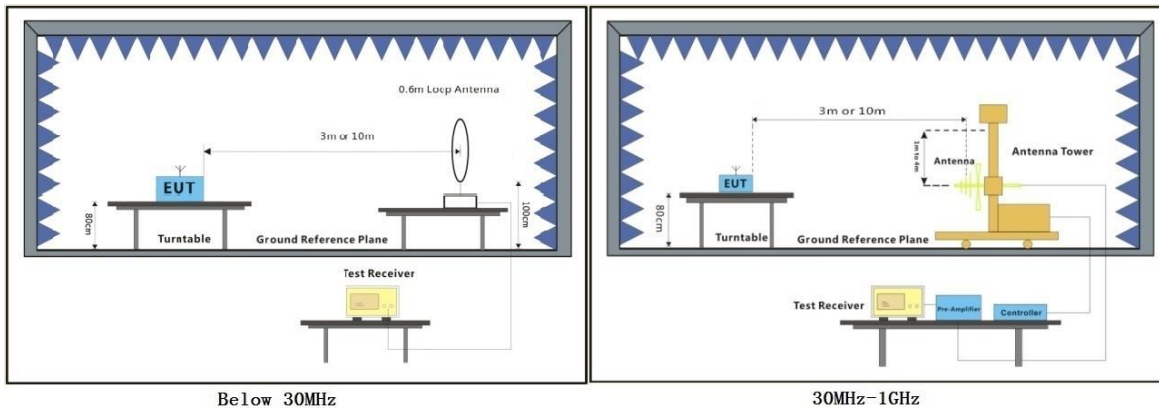
Atmospheric Pressure: 1020 mbar

#### 7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-scan              | 08        | 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.                       |
| Final test            | 09        | Charge + TX mode_Keep the EUT in charging and 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. |



### 7.3.3 Test Setup Diagram



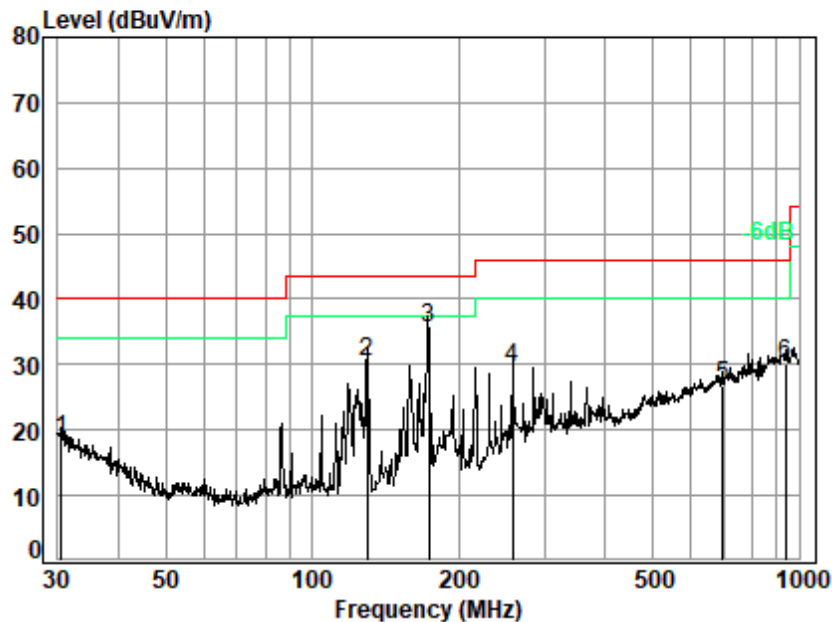
### 7.3.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

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

Test Mode: 09; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

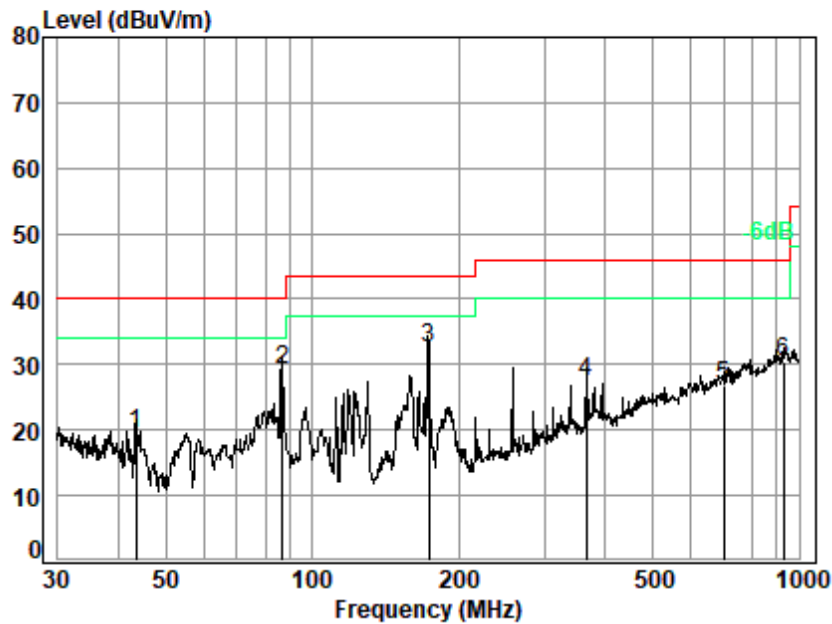
Job No. : 03174AT

Test Mode: 09

|      | Ant     | Cable | Preamp | Read  |        | Limit  | Over  |           |
|------|---------|-------|--------|-------|--------|--------|-------|-----------|
| Freq | Factor  | Loss  | Factor | Level | Level  | Line   | Limit | Remark    |
| MHz  | dB/m    | dB    | dB     | dBuV  | dBuV/m | dBuV/m | dB    |           |
| 1    | 30.531  | 20.95 | 0.74   | 27.65 | 24.42  | 18.46  | 40.00 | -21.54 QP |
| 2    | 129.468 | 11.00 | 1.40   | 27.67 | 45.83  | 30.56  | 43.50 | -12.94 QP |
| 3 q  | 173.205 | 13.64 | 1.60   | 27.76 | 48.06  | 35.54  | 43.50 | -7.96 QP  |
| 4    | 257.422 | 17.27 | 1.96   | 27.61 | 37.83  | 29.45  | 46.00 | -16.55 QP |
| 5    | 696.857 | 25.88 | 3.40   | 27.84 | 25.45  | 26.89  | 46.00 | -19.11 QP |
| 6    | 938.833 | 28.15 | 4.06   | 26.74 | 24.73  | 30.20  | 46.00 | -15.80 QP |



Test Mode: 09; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 03174AT  
Test Mode: 09

|     |         | Ant    | Cable | Preamp | Read  |        | Limit  | Over   |        |
|-----|---------|--------|-------|--------|-------|--------|--------|--------|--------|
|     | Freq    | Factor | Loss  | Factor | Level | Level  | Line   | Limit  | Remark |
|     | MHz     | dB/m   | dB    | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1   | 43.353  | 14.80  | 0.85  | 27.64  | 31.48 | 19.49  | 40.00  | -20.51 | QP     |
| 2 q | 86.807  | 11.28  | 1.16  | 27.61  | 44.32 | 29.15  | 40.00  | -10.85 | QP     |
| 3   | 173.205 | 13.64  | 1.60  | 27.76  | 44.98 | 32.46  | 43.50  | -11.04 | QP     |
| 4   | 365.539 | 20.31  | 2.37  | 27.67  | 32.47 | 27.48  | 46.00  | -18.52 | QP     |
| 5   | 699.305 | 25.93  | 3.41  | 27.83  | 25.36 | 26.87  | 46.00  | -19.13 | QP     |
| 6   | 929.008 | 28.16  | 4.04  | 26.80  | 25.01 | 30.41  | 46.00  | -15.59 | QP     |



# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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## 7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.6

Measurement Distance: 3m

Limit:

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

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

### 7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-scan              | 08        | 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.                       |
| Final test            | 09        | Charge + TX mode_Keep the EUT in charging and 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. |



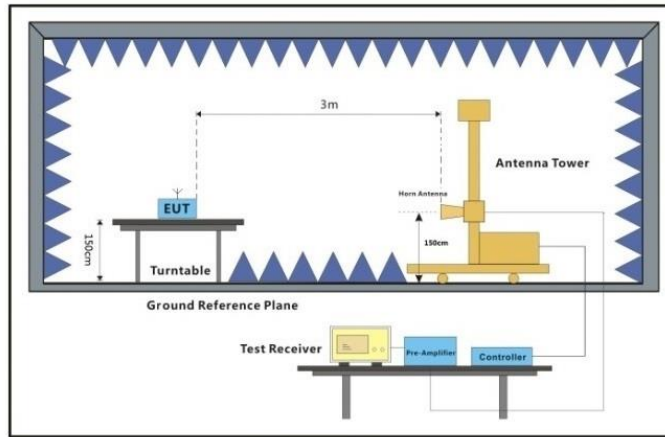
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Testing & Calibration Laboratory

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### 7.4.3 Test Setup Diagram



Above 1GHz



## 7.4.4 Measurement Procedure and Data

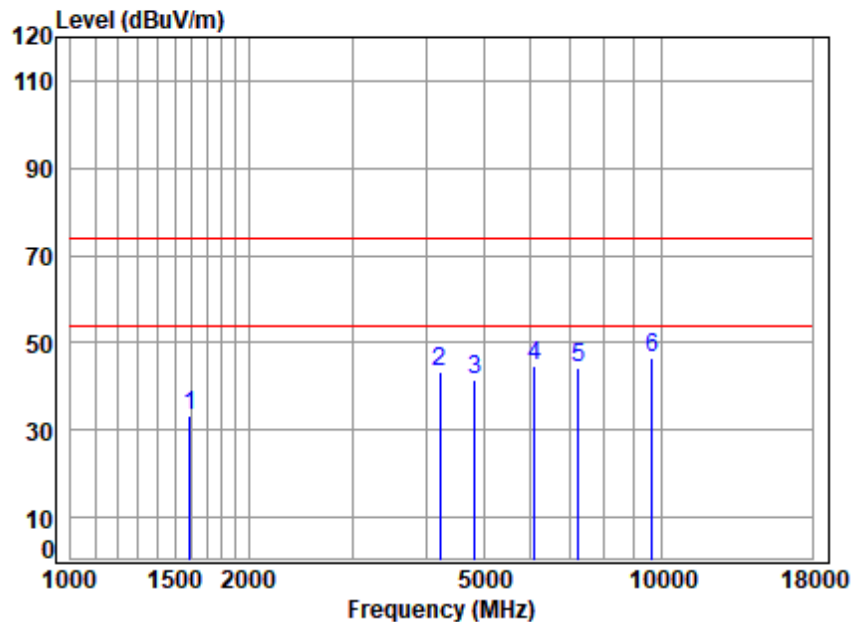
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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  $\geq 1/T$  (Duty cycle<98%) or 10Hz (Duty cycle $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.



Test Mode: 09; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

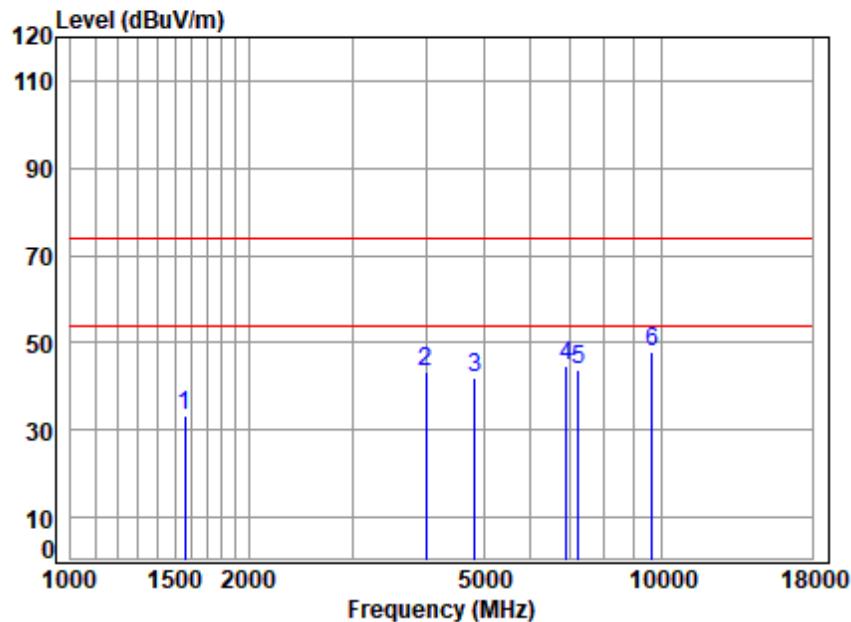


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2412 TX RSE  
: 2.4G WIFI 11B

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1592.571 | 4.77       | 26.83      | 54.80         | 56.45      | 33.25  | 74.00      | -40.75     | peak   |
| 2   | 4218.186 | 8.24       | 33.80      | 54.28         | 55.61      | 43.37  | 74.00      | -30.63     | peak   |
| 3   | 4824.000 | 8.01       | 34.40      | 54.22         | 53.26      | 41.45  | 74.00      | -32.55     | peak   |
| 4   | 6106.616 | 9.44       | 35.07      | 53.11         | 53.42      | 44.82  | 74.00      | -29.18     | peak   |
| 5   | 7236.000 | 9.29       | 35.70      | 53.18         | 52.48      | 44.29  | 74.00      | -29.71     | peak   |
| 6 p | 9648.000 | 11.38      | 37.50      | 53.34         | 50.98      | 46.52  | 74.00      | -27.48     | peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03174AT

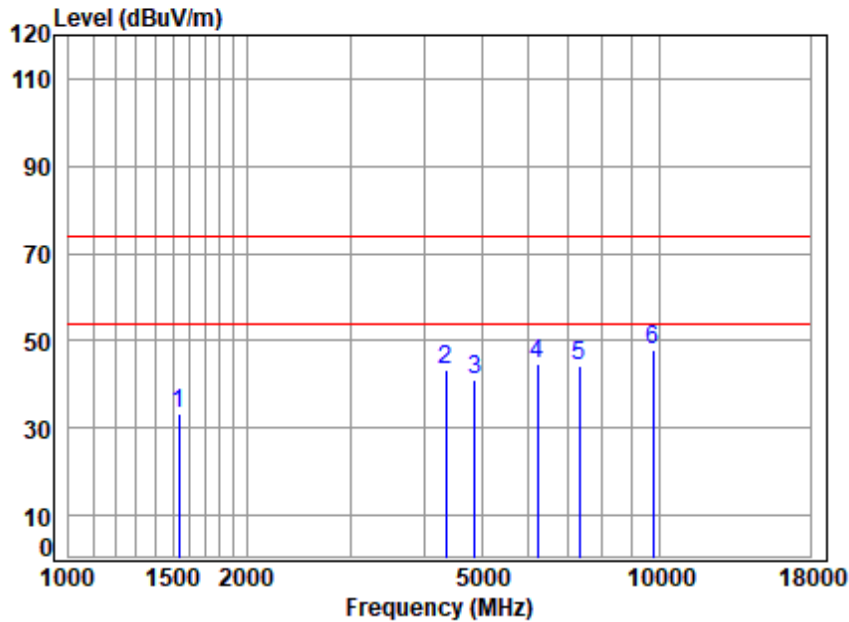
Mode : 2412 TX RSE

: 2.4G WIFI 11B

|     |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|-----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1   | 1560.673 | 4.70  | 26.96  | 54.79  | 56.56 | 33.43  | 74.00  | -40.57 | peak   |
| 2   | 3992.781 | 8.54  | 33.07  | 54.30  | 55.97 | 43.28  | 74.00  | -30.72 | peak   |
| 3   | 4824.000 | 8.01  | 34.40  | 54.22  | 53.62 | 41.81  | 74.00  | -32.19 | peak   |
| 4   | 6914.763 | 9.47  | 35.66  | 53.19  | 52.85 | 44.79  | 74.00  | -29.21 | peak   |
| 5   | 7236.000 | 9.29  | 35.70  | 53.18  | 52.14 | 43.95  | 74.00  | -30.05 | peak   |
| 6 p | 9648.000 | 11.38 | 37.50  | 53.34  | 52.21 | 47.75  | 74.00  | -26.25 | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle

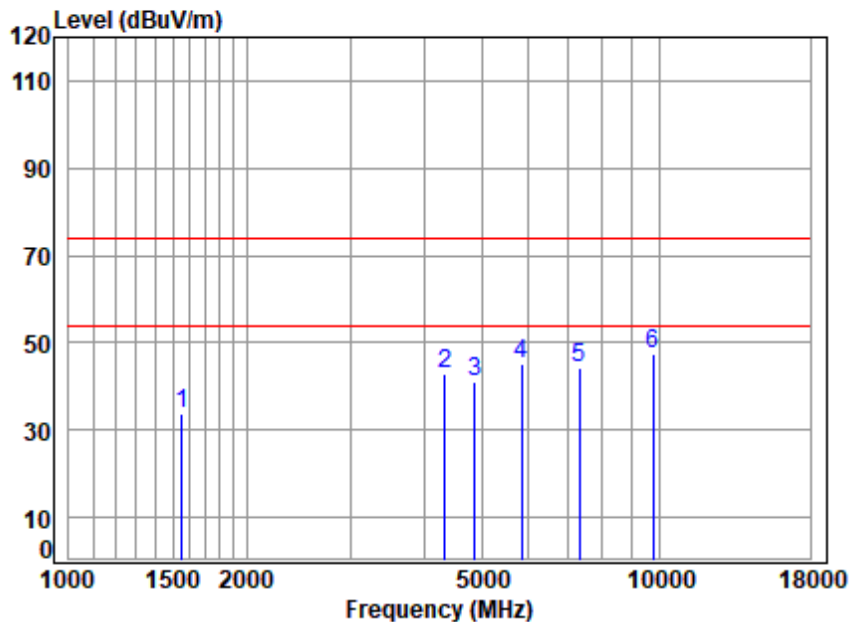


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 03174AT  
 Mode : 2437 TX RSE  
 : 2.4G WIFI 11B

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1533.841 | 4.65       | 26.94      | 54.79         | 56.44      | 33.24  | 74.00      | -40.76     | peak   |
| 2   | 4354.454 | 8.06       | 34.44      | 54.26         | 54.91      | 43.15  | 74.00      | -30.85     | peak   |
| 3   | 4874.000 | 8.03       | 34.60      | 54.21         | 52.56      | 40.98  | 74.00      | -33.02     | peak   |
| 4   | 6213.441 | 9.35       | 34.75      | 53.12         | 53.86      | 44.84  | 74.00      | -29.16     | peak   |
| 5   | 7311.000 | 9.21       | 35.70      | 53.17         | 52.49      | 44.23  | 74.00      | -29.77     | peak   |
| 6 p | 9748.000 | 11.32      | 37.40      | 53.30         | 52.42      | 47.84  | 74.00      | -26.16     | peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 03174AT

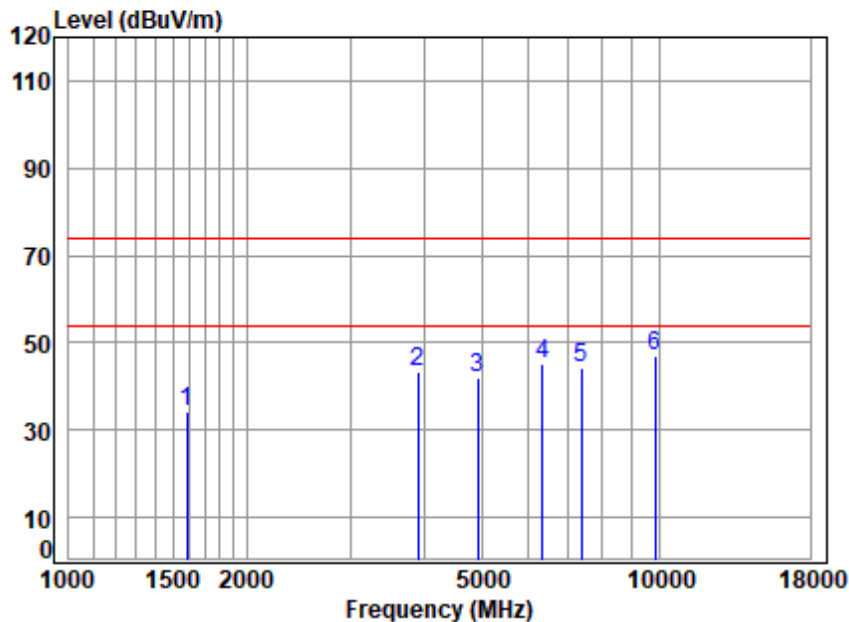
Mode : 2437 TX RSE

: 2.4G WIFI 11B

|     |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|-----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|     | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|     | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1   | 1551.677 | 4.68  | 26.99  | 54.79  | 57.07 | 33.95  | 74.00  | -40.05 | peak   |
| 2   | 4329.354 | 8.09  | 34.23  | 54.26  | 54.98 | 43.04  | 74.00  | -30.96 | peak   |
| 3   | 4874.000 | 8.03  | 34.60  | 54.21  | 52.77 | 41.19  | 74.00  | -32.81 | peak   |
| 4   | 5847.517 | 9.45  | 34.40  | 53.26  | 54.60 | 45.19  | 74.00  | -28.81 | peak   |
| 5   | 7311.000 | 9.21  | 35.70  | 53.17  | 52.74 | 44.48  | 74.00  | -29.52 | peak   |
| 6 p | 9748.000 | 11.32 | 37.40  | 53.30  | 52.05 | 47.47  | 74.00  | -26.53 | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

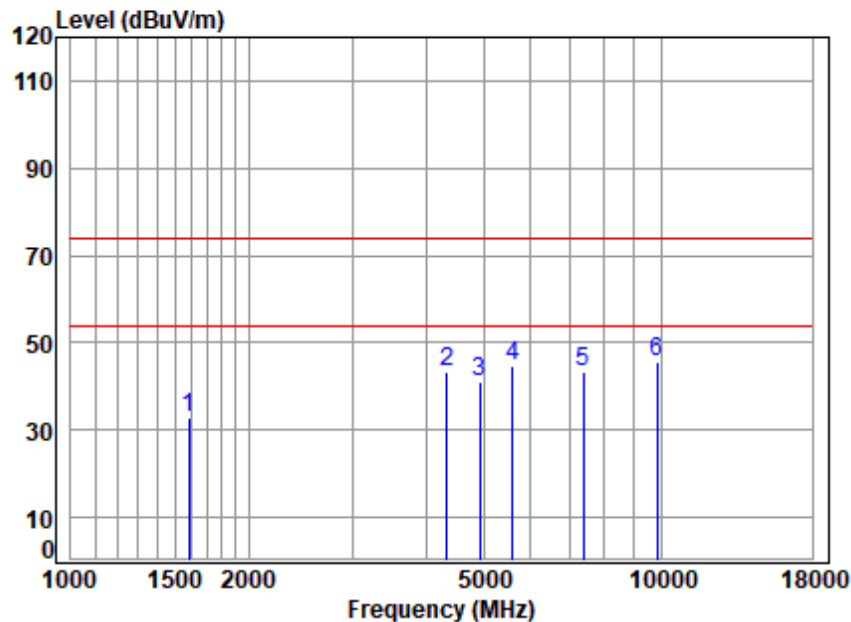


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2462 TX RSE  
: 2.4G WIFI 11B

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1587.975 | 4.76       | 26.85      | 54.80         | 57.46      | 34.27  | 74.00      | -39.73     | peak   |
| 2   | 3901.516 | 8.25       | 33.79      | 54.36         | 55.73      | 43.41  | 74.00      | -30.59     | peak   |
| 3   | 4924.000 | 8.05       | 34.65      | 54.21         | 53.37      | 41.86  | 74.00      | -32.14     | peak   |
| 4   | 6340.436 | 9.26       | 34.92      | 53.14         | 54.31      | 45.35  | 74.00      | -28.65     | peak   |
| 5   | 7386.000 | 9.14       | 35.77      | 53.16         | 52.36      | 44.11  | 74.00      | -29.89     | peak   |
| 6 p | 9848.000 | 11.27      | 37.20      | 53.26         | 51.89      | 47.10  | 74.00      | -26.90     | peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

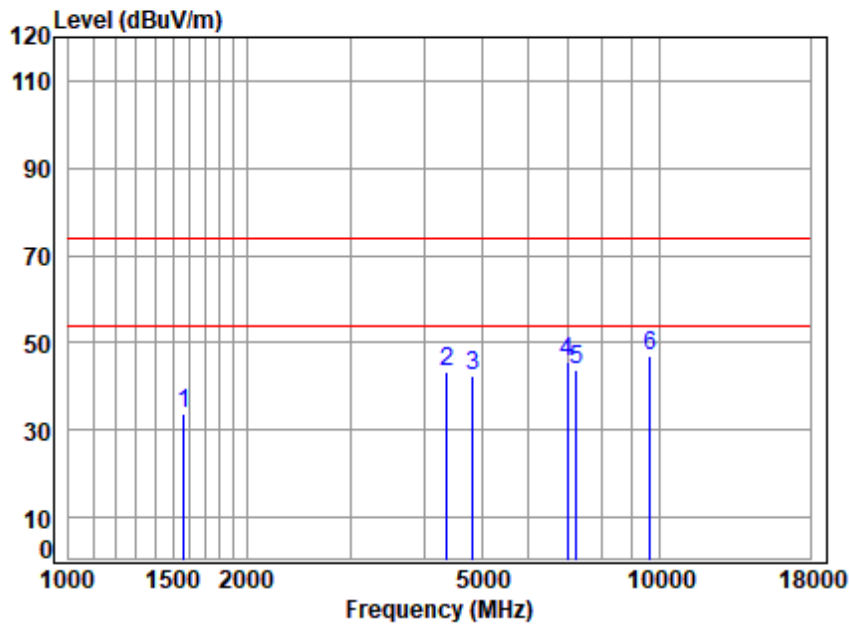


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2462 TX RSE  
: 2.4G WIFI 11B

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1583.392 | 4.75       | 26.87      | 54.80         | 56.15      | 32.97  | 74.00      | -41.03     | peak   |
| 2   | 4329.354 | 8.09       | 34.23      | 54.26         | 55.19      | 43.25  | 74.00      | -30.75     | peak   |
| 3   | 4924.000 | 8.05       | 34.65      | 54.21         | 52.50      | 40.99  | 74.00      | -33.01     | peak   |
| 4   | 5599.412 | 9.35       | 34.70      | 53.52         | 54.20      | 44.73  | 74.00      | -29.27     | peak   |
| 5   | 7386.000 | 9.14       | 35.77      | 53.16         | 51.72      | 43.47  | 74.00      | -30.53     | peak   |
| 6 p | 9848.000 | 11.27      | 37.20      | 53.26         | 50.50      | 45.71  | 74.00      | -28.29     | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

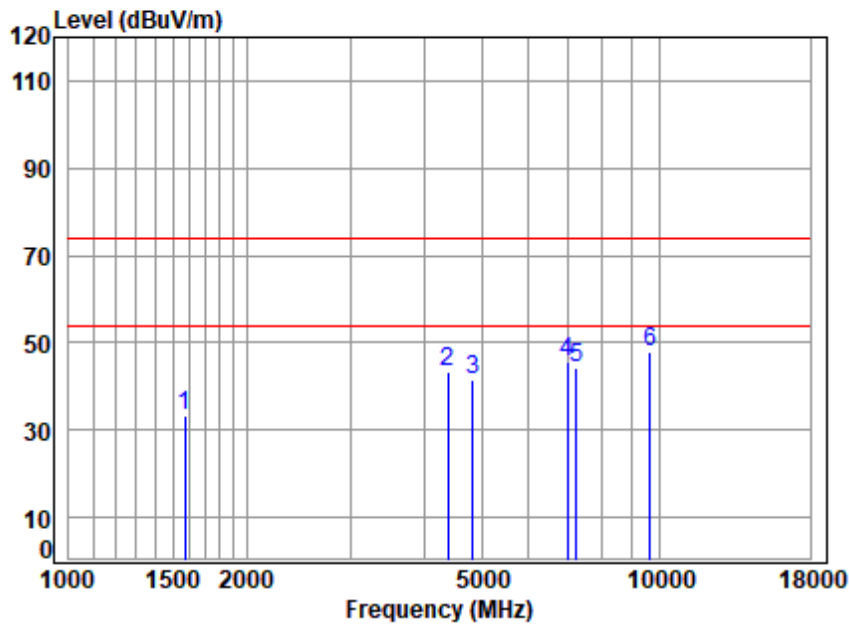


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2412 TX RSE  
: 2.4G WIFI 11G

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1565.191 | 4.71       | 26.94      | 54.79         | 56.72      | 33.58  | 74.00      | -40.42     | peak   |
| 2   | 4367.058 | 8.04       | 34.54      | 54.26         | 54.91      | 43.23  | 74.00      | -30.77     | peak   |
| 3   | 4824.000 | 8.01       | 34.40      | 54.22         | 54.11      | 42.30  | 74.00      | -31.70     | peak   |
| 4   | 6995.172 | 9.53       | 35.71      | 53.20         | 53.73      | 45.77  | 74.00      | -28.23     | peak   |
| 5   | 7236.000 | 9.29       | 35.70      | 53.18         | 52.20      | 44.01  | 74.00      | -29.99     | peak   |
| 6 p | 9648.000 | 11.38      | 37.50      | 53.34         | 51.34      | 46.88  | 74.00      | -27.12     | peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03174AT

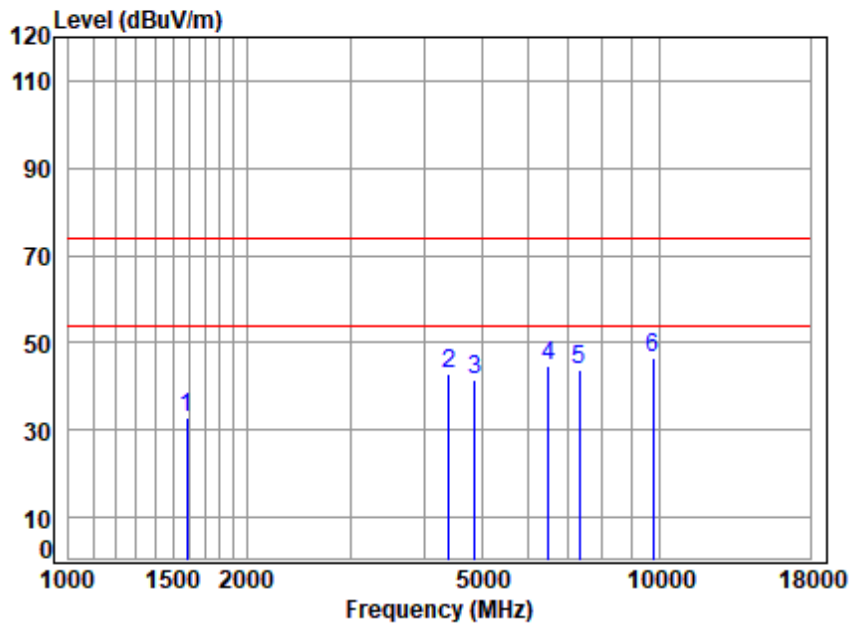
Mode : 2412 TX RSE

: 2.4G WIFI 11G

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1574.265 | 4.73       | 26.90      | 54.80         | 56.49      | 33.32  | 74.00      | -40.68     | peak   |
| 2   | 4379.699 | 8.02       | 34.64      | 54.26         | 54.73      | 43.13  | 74.00      | -30.87     | peak   |
| 3   | 4824.000 | 8.01       | 34.40      | 54.22         | 53.26      | 41.45  | 74.00      | -32.55     | peak   |
| 4   | 6995.172 | 9.53       | 35.71      | 53.20         | 53.47      | 45.51  | 74.00      | -28.49     | peak   |
| 5   | 7236.000 | 9.29       | 35.70      | 53.18         | 52.31      | 44.12  | 74.00      | -29.88     | peak   |
| 6 p | 9648.000 | 11.38      | 37.50      | 53.34         | 52.16      | 47.70  | 74.00      | -26.30     | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle

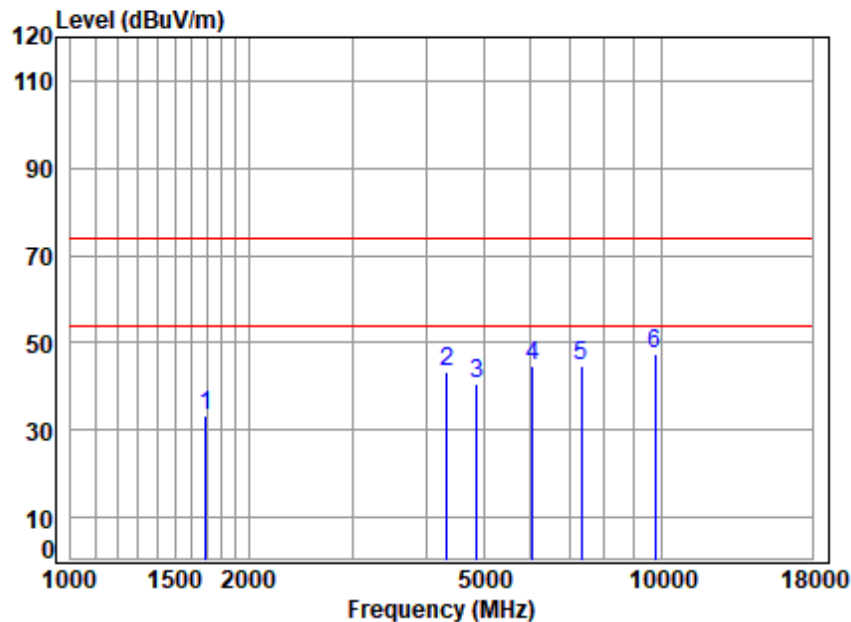


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2437 TX RSE  
: 2.4G WIFI 11G

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1583.392 | 4.75       | 26.87      | 54.80         | 56.24      | 33.06  | 74.00      | -40.94     | peak   |
| 2   | 4405.090 | 7.99       | 34.74      | 54.26         | 54.32      | 42.79  | 74.00      | -31.21     | peak   |
| 3   | 4874.000 | 8.03       | 34.60      | 54.21         | 52.96      | 41.38  | 74.00      | -32.62     | peak   |
| 4   | 6488.754 | 9.15       | 35.58      | 53.15         | 53.03      | 44.61  | 74.00      | -29.39     | peak   |
| 5   | 7311.000 | 9.21       | 35.70      | 53.17         | 52.04      | 43.78  | 74.00      | -30.22     | peak   |
| 6 p | 9748.000 | 11.32      | 37.40      | 53.30         | 51.27      | 46.69  | 74.00      | -27.31     | peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle

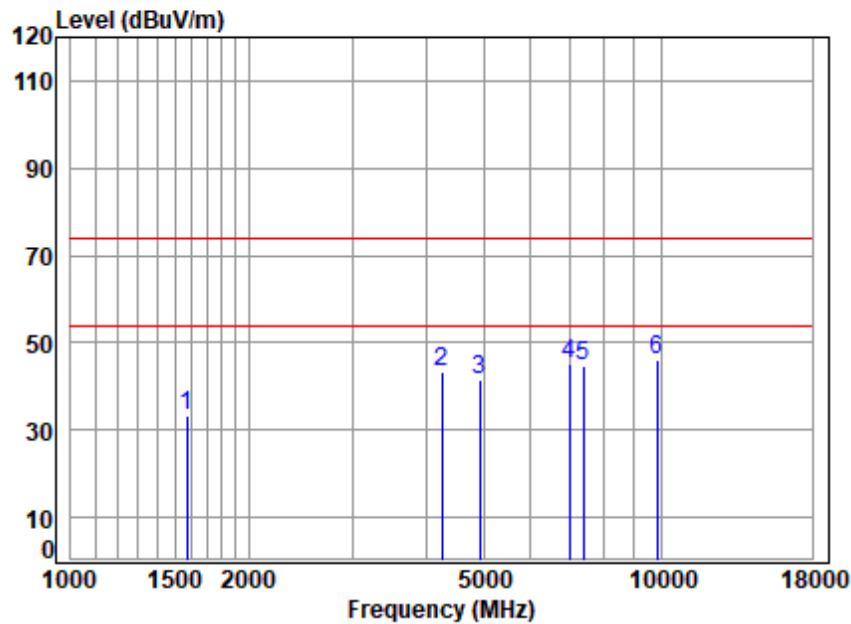


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2437 TX RSE  
: 2.4G WIFI 11G

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1692.231 | 4.98       | 26.22      | 54.83         | 57.05      | 33.42  | 74.00      | -40.58     | peak   |
| 2   | 4329.354 | 8.09       | 34.23      | 54.26         | 55.21      | 43.27  | 74.00      | -30.73     | peak   |
| 3   | 4874.000 | 8.03       | 34.60      | 54.21         | 52.30      | 40.72  | 74.00      | -33.28     | peak   |
| 4   | 6053.894 | 9.48       | 35.01      | 53.11         | 53.16      | 44.54  | 74.00      | -29.46     | peak   |
| 5   | 7311.000 | 9.21       | 35.70      | 53.17         | 52.85      | 44.59  | 74.00      | -29.41     | peak   |
| 6 p | 9748.000 | 11.32      | 37.40      | 53.30         | 52.17      | 47.59  | 74.00      | -26.41     | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High

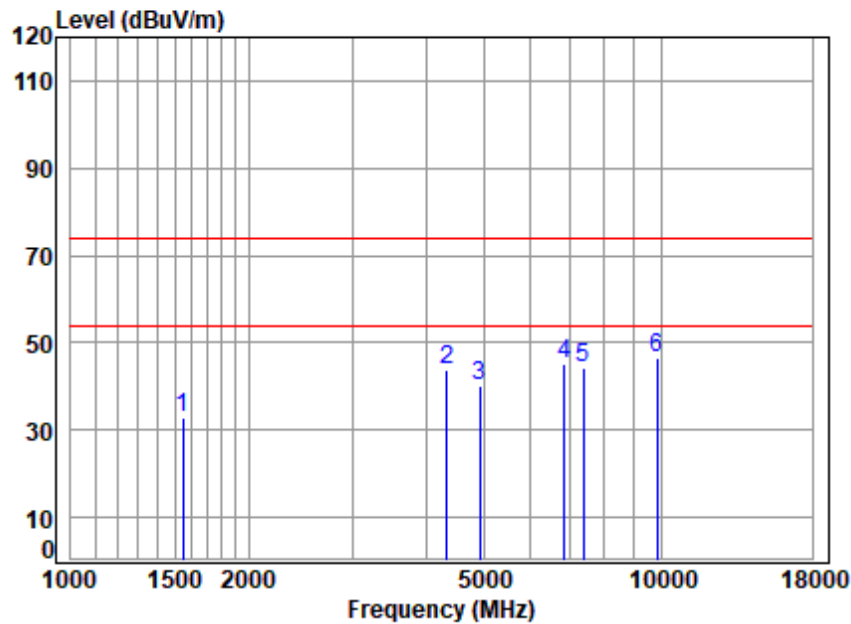


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2462 TX RSE  
: 2.4G WIFI 11G

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1574.265 | 4.73       | 26.90      | 54.80         | 56.45      | 33.28  | 74.00      | -40.72     | peak   |
| 2   | 4242.641 | 8.21       | 33.80      | 54.27         | 55.50      | 43.24  | 74.00      | -30.76     | peak   |
| 3   | 4924.000 | 8.05       | 34.65      | 54.21         | 52.84      | 41.33  | 74.00      | -32.67     | peak   |
| 4   | 6995.172 | 9.53       | 35.71      | 53.20         | 53.18      | 45.22  | 74.00      | -28.78     | peak   |
| 5   | 7386.000 | 9.14       | 35.77      | 53.16         | 53.09      | 44.84  | 74.00      | -29.16     | peak   |
| 6 p | 9848.000 | 11.27      | 37.20      | 53.26         | 51.06      | 46.27  | 74.00      | -27.73     | peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High

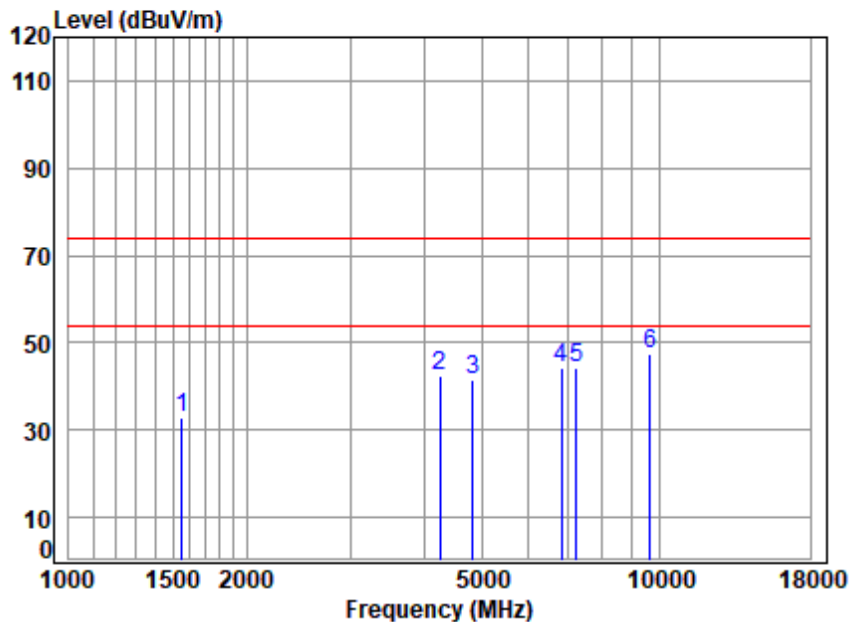


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2462 TX RSE  
: 2.4G WIFI 11G

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1547.199 | 4.67       | 26.99      | 54.79         | 56.15      | 33.02  | 74.00      | -40.98     | peak   |
| 2   | 4341.886 | 8.07       | 34.34      | 54.26         | 55.84      | 43.99  | 74.00      | -30.01     | peak   |
| 3   | 4924.000 | 8.05       | 34.65      | 54.21         | 51.53      | 40.02  | 74.00      | -33.98     | peak   |
| 4   | 6855.063 | 9.42       | 35.51      | 53.19         | 53.50      | 45.24  | 74.00      | -28.76     | peak   |
| 5   | 7386.000 | 9.14       | 35.77      | 53.16         | 52.30      | 44.05  | 74.00      | -29.95     | peak   |
| 6 p | 9848.000 | 11.27      | 37.20      | 53.26         | 51.38      | 46.59  | 74.00      | -27.41     | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

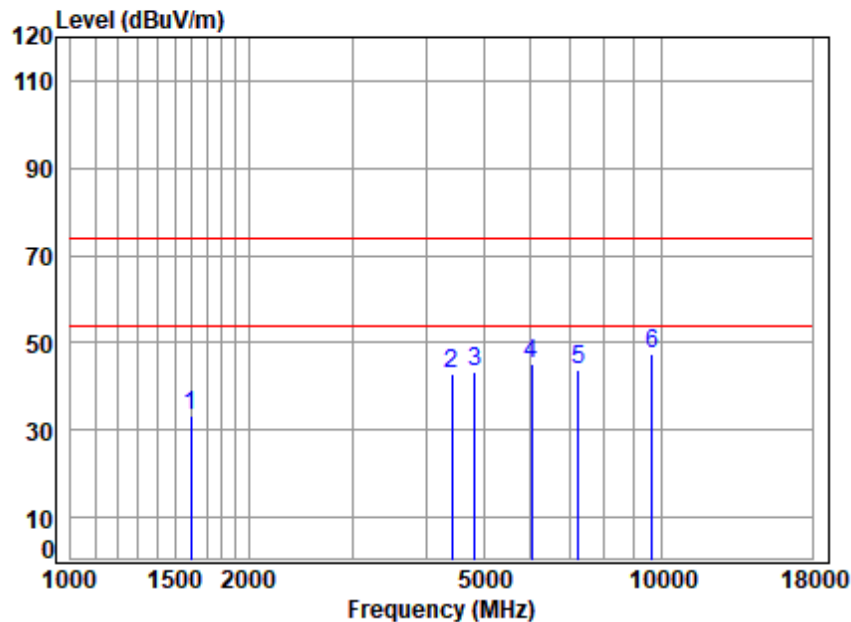


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2412 TX RSE  
: 2.4G WIFI 11N20

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1551.677 | 4.68       | 26.99      | 54.79         | 55.98      | 32.86  | 74.00      | -41.14     | peak   |
| 2   | 4254.921 | 8.19       | 33.82      | 54.27         | 54.79      | 42.53  | 74.00      | -31.47     | peak   |
| 3   | 4824.000 | 8.01       | 34.40      | 54.22         | 53.20      | 41.39  | 74.00      | -32.61     | peak   |
| 4   | 6815.551 | 9.39       | 35.36      | 53.18         | 52.80      | 44.37  | 74.00      | -29.63     | peak   |
| 5   | 7236.000 | 9.29       | 35.70      | 53.18         | 52.27      | 44.08  | 74.00      | -29.92     | peak   |
| 6 p | 9648.000 | 11.38      | 37.50      | 53.34         | 51.82      | 47.36  | 74.00      | -26.64     | peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

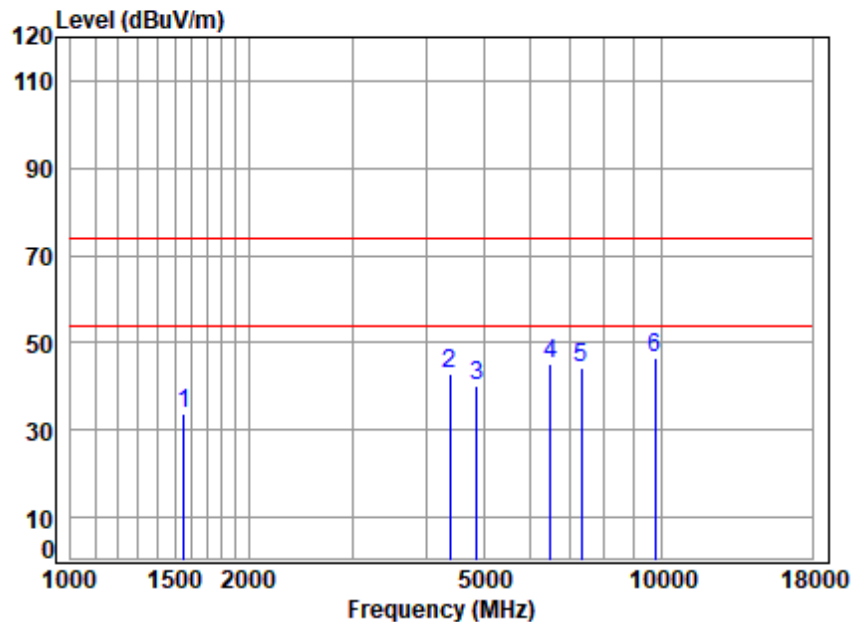


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2412 TX RSE  
: 2.4G WIFI 11N20

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1597.181 | 4.78       | 26.81      | 54.80         | 56.57      | 33.36  | 74.00      | -40.64     | peak   |
| 2   | 4417.841 | 7.97       | 34.59      | 54.26         | 54.73      | 43.03  | 74.00      | -30.97     | peak   |
| 3   | 4824.000 | 8.01       | 34.40      | 54.22         | 55.24      | 43.43  | 74.00      | -30.57     | peak   |
| 4   | 6018.999 | 9.50       | 34.94      | 53.10         | 53.99      | 45.33  | 74.00      | -28.67     | peak   |
| 5   | 7236.000 | 9.29       | 35.70      | 53.18         | 52.07      | 43.88  | 74.00      | -30.12     | peak   |
| 6 p | 9648.000 | 11.38      | 37.50      | 53.34         | 51.78      | 47.32  | 74.00      | -26.68     | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

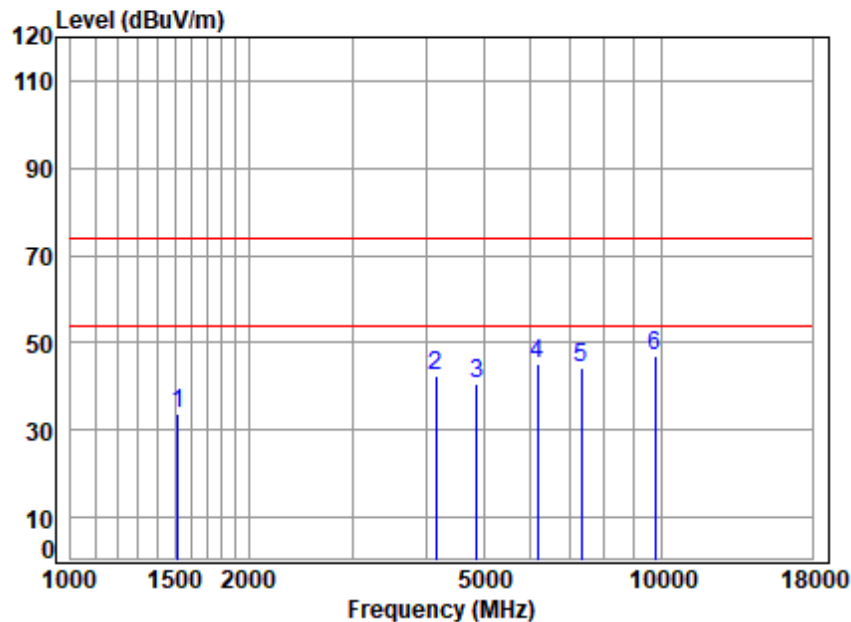


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2437 TX RSE  
: 2.4G WIFI 11N20

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1551.677 | 4.68       | 26.99      | 54.79         | 56.99      | 33.87  | 74.00      | -40.13     | peak   |
| 2   | 4392.376 | 8.00       | 34.74      | 54.26         | 54.49      | 42.97  | 74.00      | -31.03     | peak   |
| 3   | 4874.000 | 8.03       | 34.60      | 54.21         | 51.56      | 39.98  | 74.00      | -34.02     | peak   |
| 4   | 6488.754 | 9.15       | 35.58      | 53.15         | 53.41      | 44.99  | 74.00      | -29.01     | peak   |
| 5   | 7311.000 | 9.21       | 35.70      | 53.17         | 52.39      | 44.13  | 74.00      | -29.87     | peak   |
| 6 p | 9748.000 | 11.32      | 37.40      | 53.30         | 51.09      | 46.51  | 74.00      | -27.49     | peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

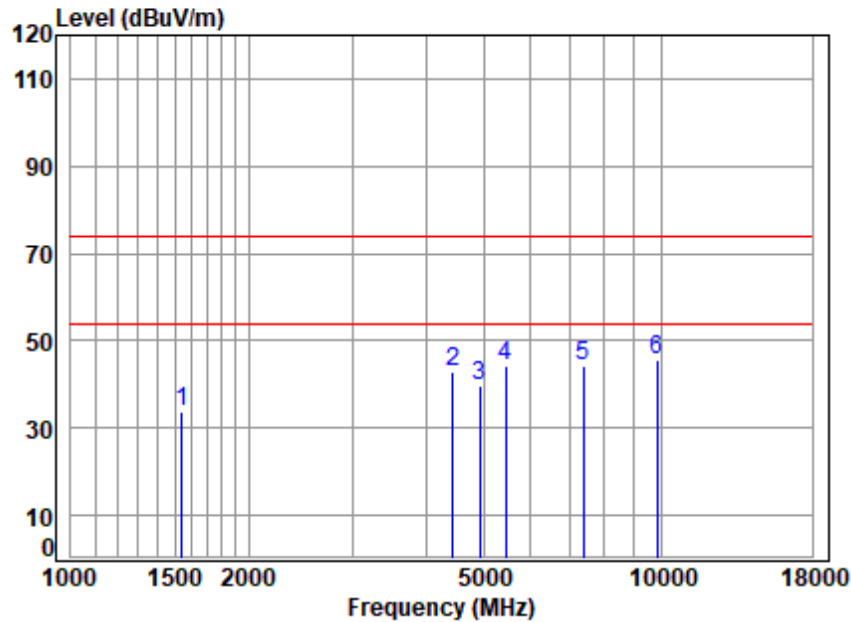


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 03174AT  
 Mode : 2437 TX RSE  
 : 2.4G WIFI 11N20

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1516.210 | 4.61       | 26.86      | 54.78         | 57.04      | 33.73  | 74.00      | -40.27     | peak   |
| 2   | 4145.664 | 8.35       | 33.73      | 54.28         | 54.77      | 42.57  | 74.00      | -31.43     | peak   |
| 3   | 4874.000 | 8.03       | 34.60      | 54.21         | 52.07      | 40.49  | 74.00      | -33.51     | peak   |
| 4   | 6177.627 | 9.38       | 34.79      | 53.12         | 54.01      | 45.06  | 74.00      | -28.94     | peak   |
| 5   | 7311.000 | 9.21       | 35.70      | 53.17         | 52.66      | 44.40  | 74.00      | -29.60     | peak   |
| 6 p | 9748.000 | 11.32      | 37.40      | 53.30         | 51.57      | 46.99  | 74.00      | -27.01     | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

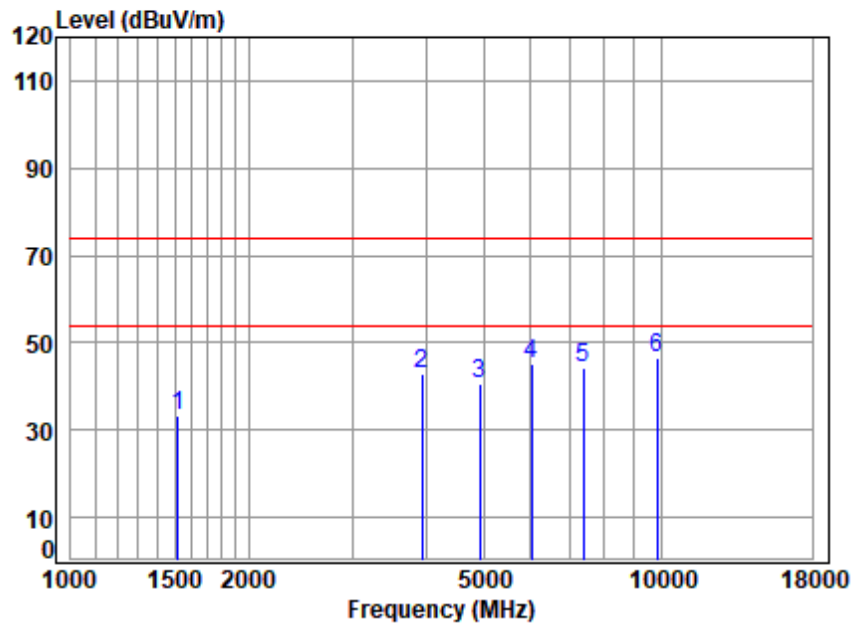


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 03174AT  
 Mode : 2462 TX RSE  
 : 2.4G WIFI 11N20

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1542.733 | 4.66       | 26.97      | 54.79         | 56.88      | 33.72  | 74.00      | -40.28     | peak   |
| 2   | 4443.453 | 7.94       | 34.28      | 54.25         | 54.99      | 42.96  | 74.00      | -31.04     | peak   |
| 3   | 4924.000 | 8.05       | 34.65      | 54.21         | 51.30      | 39.79  | 74.00      | -34.21     | peak   |
| 4   | 5455.631 | 9.20       | 34.68      | 53.67         | 54.25      | 44.46  | 74.00      | -29.54     | peak   |
| 5   | 7386.000 | 9.14       | 35.77      | 53.16         | 52.29      | 44.04  | 74.00      | -29.96     | peak   |
| 6 p | 9848.000 | 11.27      | 37.20      | 53.26         | 50.31      | 45.52  | 74.00      | -28.48     | peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

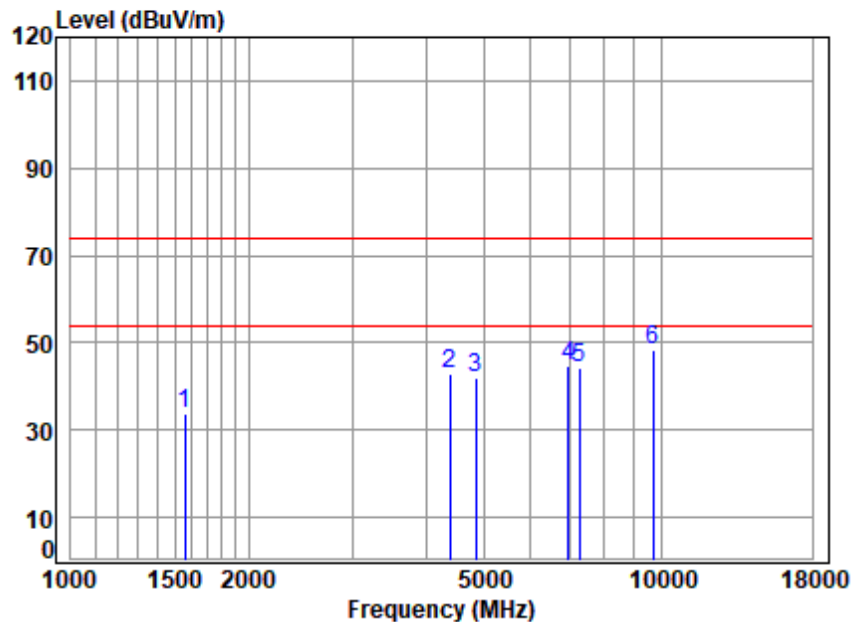


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 03174AT  
 Mode : 2462 TX RSE  
 : 2.4G WIFI 11N20

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1520.598 | 4.62       | 26.88      | 54.78         | 56.66      | 33.38  | 74.00      | -40.62     | peak   |
| 2   | 3935.493 | 8.36       | 33.59      | 54.34         | 55.39      | 43.00  | 74.00      | -31.00     | peak   |
| 3   | 4924.000 | 8.05       | 34.65      | 54.21         | 52.15      | 40.64  | 74.00      | -33.36     | peak   |
| 4   | 6036.421 | 9.49       | 34.97      | 53.10         | 54.02      | 45.38  | 74.00      | -28.62     | peak   |
| 5   | 7386.000 | 9.14       | 35.77      | 53.16         | 52.64      | 44.39  | 74.00      | -29.61     | peak   |
| 6 p | 9848.000 | 11.27      | 37.20      | 53.26         | 51.47      | 46.68  | 74.00      | -27.32     | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

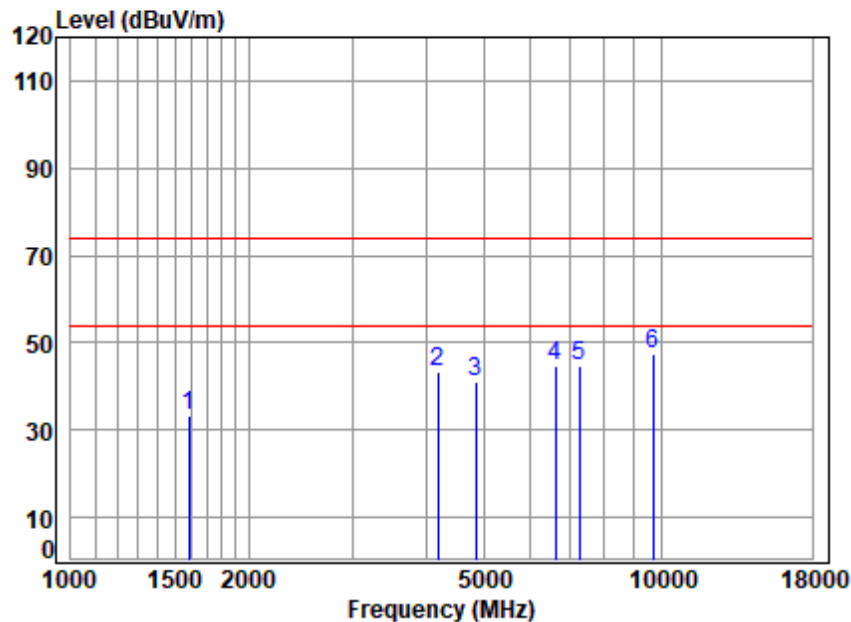


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2422 TX RSE  
: 2.4G WIFI 11N40

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1560.673 | 4.70       | 26.96      | 54.79         | 56.80      | 33.67  | 74.00      | -40.33     | peak   |
| 2   | 4379.699 | 8.02       | 34.64      | 54.26         | 54.44      | 42.84  | 74.00      | -31.16     | peak   |
| 3   | 4844.000 | 8.01       | 34.48      | 54.21         | 53.50      | 41.78  | 74.00      | -32.22     | peak   |
| 4   | 6954.852 | 9.50       | 35.79      | 53.20         | 52.56      | 44.65  | 74.00      | -29.35     | peak   |
| 5   | 7266.000 | 9.26       | 35.70      | 53.17         | 52.29      | 44.08  | 74.00      | -29.92     | peak   |
| 6 p | 9688.000 | 11.36      | 37.50      | 53.32         | 53.02      | 48.56  | 74.00      | -25.44     | peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

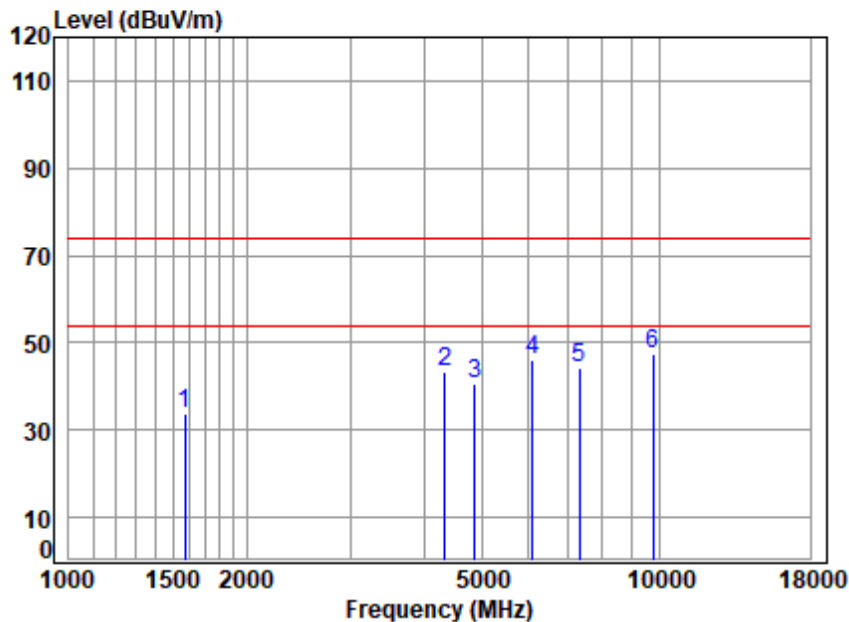


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2422 TX RSE  
: 2.4G WIFI 11N40

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1583.392 | 4.75       | 26.87      | 54.80         | 56.64      | 33.46  | 74.00      | -40.54     | peak   |
| 2   | 4181.768 | 8.30       | 33.80      | 54.28         | 55.49      | 43.31  | 74.00      | -30.69     | peak   |
| 3   | 4844.000 | 8.01       | 34.48      | 54.21         | 52.85      | 41.13  | 74.00      | -32.87     | peak   |
| 4   | 6621.375 | 9.24       | 35.26      | 53.16         | 53.23      | 44.57  | 74.00      | -29.43     | peak   |
| 5   | 7266.000 | 9.26       | 35.70      | 53.17         | 52.92      | 44.71  | 74.00      | -29.29     | peak   |
| 6 p | 9688.000 | 11.36      | 37.50      | 53.32         | 51.81      | 47.35  | 74.00      | -26.65     | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle

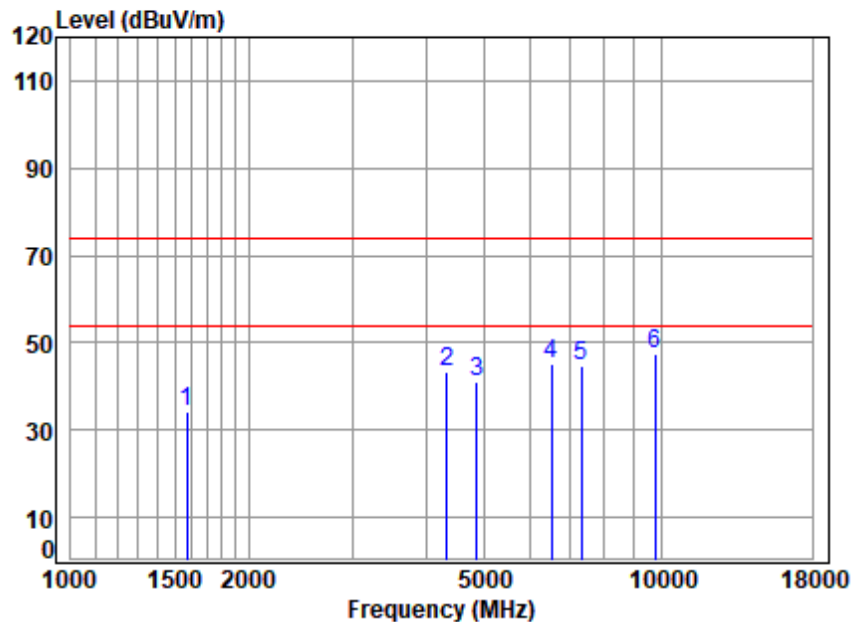


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2437 TX RSE  
: 2.4G WIFI 11N40

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1574.265 | 4.73       | 26.90      | 54.80         | 56.74      | 33.57  | 74.00      | -40.43     | peak   |
| 2   | 4329.354 | 8.09       | 34.23      | 54.26         | 55.10      | 43.16  | 74.00      | -30.84     | peak   |
| 3   | 4874.000 | 8.03       | 34.60      | 54.21         | 52.32      | 40.74  | 74.00      | -33.26     | peak   |
| 4   | 6088.991 | 9.45       | 35.08      | 53.11         | 54.46      | 45.88  | 74.00      | -28.12     | peak   |
| 5   | 7311.000 | 9.21       | 35.70      | 53.17         | 52.57      | 44.31  | 74.00      | -29.69     | peak   |
| 6 p | 9748.000 | 11.32      | 37.40      | 53.30         | 52.22      | 47.64  | 74.00      | -26.36     | peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle

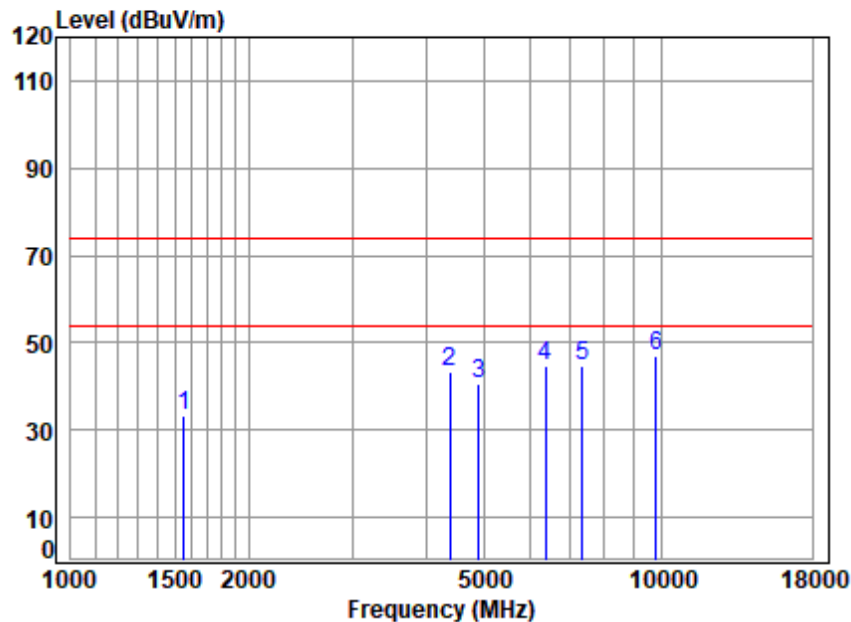


Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2437 TX RSE  
: 2.4G WIFI 11N40

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1574.265 | 4.73       | 26.90      | 54.80         | 57.39      | 34.22  | 74.00      | -39.78     | peak   |
| 2   | 4341.886 | 8.07       | 34.34      | 54.26         | 54.98      | 43.13  | 74.00      | -30.87     | peak   |
| 3   | 4874.000 | 8.03       | 34.60      | 54.21         | 52.44      | 40.86  | 74.00      | -33.14     | peak   |
| 4   | 6526.373 | 9.16       | 35.55      | 53.15         | 53.65      | 45.21  | 74.00      | -28.79     | peak   |
| 5   | 7311.000 | 9.21       | 35.70      | 53.17         | 53.09      | 44.83  | 74.00      | -29.17     | peak   |
| 6 p | 9748.000 | 11.32      | 37.40      | 53.30         | 52.17      | 47.59  | 74.00      | -26.41     | peak   |



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

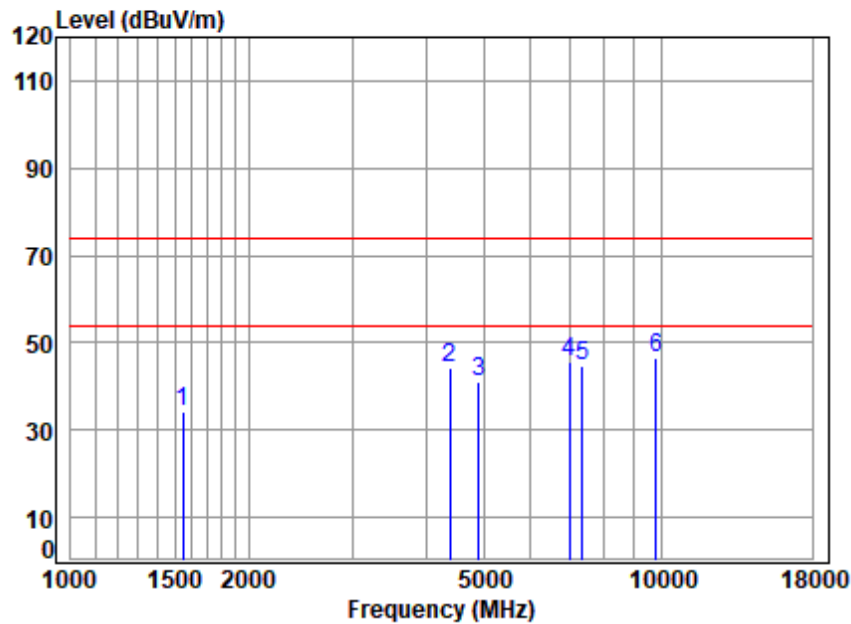


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03174AT  
Mode : 2452 TX RSE  
: 2.4G WIFI 11N40

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1551.677 | 4.68       | 26.99      | 54.79         | 56.51      | 33.39  | 74.00      | -40.61     | peak   |
| 2   | 4379.699 | 8.02       | 34.64      | 54.26         | 55.12      | 43.52  | 74.00      | -30.48     | peak   |
| 3   | 4904.000 | 8.04       | 34.69      | 54.21         | 52.05      | 40.57  | 74.00      | -33.43     | peak   |
| 4   | 6377.195 | 9.23       | 35.06      | 53.14         | 53.51      | 44.66  | 74.00      | -29.34     | peak   |
| 5   | 7356.000 | 9.17       | 35.71      | 53.16         | 52.88      | 44.60  | 74.00      | -29.40     | peak   |
| 6 p | 9808.000 | 11.29      | 37.28      | 53.27         | 51.48      | 46.78  | 74.00      | -27.22     | peak   |



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03174AT  
Mode : 2452 TX RSE  
: 2.4G WIFI 11N40

|     | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 1547.199 | 4.67       | 26.99      | 54.79         | 57.29      | 34.16  | 74.00      | -39.84     | peak   |
| 2   | 4379.699 | 8.02       | 34.64      | 54.26         | 55.64      | 44.04  | 74.00      | -29.96     | peak   |
| 3   | 4904.000 | 8.04       | 34.69      | 54.21         | 52.39      | 40.91  | 74.00      | -33.09     | peak   |
| 4   | 6974.982 | 9.51       | 35.75      | 53.20         | 53.72      | 45.78  | 74.00      | -28.22     | peak   |
| 5   | 7356.000 | 9.17       | 35.71      | 53.16         | 53.15      | 44.87  | 74.00      | -29.13     | peak   |
| 6 p | 9808.000 | 11.29      | 37.28      | 53.27         | 51.33      | 46.63  | 74.00      | -27.37     | peak   |



## 8 Test Setup Photo

Refer to Setup Photo for SZCR2507003174AT

## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2507003174AT

- End of the Report -

