# FCC RADIO TEST REPORT

| | | |
|---|---|---|
| **FCC ID** | : | **QOQWFM200** |
| **Equipment** | : | **Blues Wireless for Arduino Opta** |
| **Brand Name** | : | **Blues** |
| **Model Name** | : | **Blues Wireless for Arduino Opta – Cellular Edition (LTE Cat 1 North America)** |
| **Applicant** | : | **Blues Wireless Inc.<br>50 Harbor Street, Manchester by the Sea, MA 01944, United States** |
| **Manufacturer** | : | **Blues Wireless Inc.<br>50 Harbor Street, Manchester by the Sea, MA 01944, United States** |
| **Standard** | : | **FCC Part 15 Subpart C §15.247** |

**The product was received on Sep. 18, 2024 and testing was performed from Nov. 15, 2024 to Dec. 02, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.**

**The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.**

Louis Wu

**Approved by: Louis Wu**

***Sporton International Inc. Wensan Laboratory***
*No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)*
TEL: 886-3-327-0868
FAX: 886-3-327-0855

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# History of this test report

| Report No. | Version | Description | Issue Date |
|---|---|---|---|
| FR491806 | 01 | Initial issue of report | Feb. 06, 2025 |
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# Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---|---|---|---|---|
| 3.1 | 15.247(b) | Power Output Measurement | Pass | - |
| 3.2 | 15.247(d) | Radiated Band Edges and Radiated Spurious Emission | Pass | 0.71 dB under the limit at 77.53 MHz |
| 3.3 | 15.203 | Antenna Requirement | Pass | - |

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Leon Huang**

**Report Producer: Ming Chen**

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature |
|---|
| **General Specs**<br>GSM/WCDMA/LTE, and Wi-Fi 2.4GHz 802.11b/g/n.<br><br>**Antenna Type**<br>WWAN: Omni-directional Antenna<br>WLAN: Omni-directional Antenna |

| Antenna information | | |
|---|---|---|
| **2400 MHz ~ 2483.5 MHz** | Peak Gain (dBi) | 4.10 |

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.

## 1.3 Testing Location

| | |
|---|---|
| **Test Site** | Sporton International Inc. Wensan Laboratory |
| **Test Site Location** | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City 333010<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| **Test Site No.** | **Sporton Site No.** |
| | TH05-HY, 03CH15-HY |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

## 1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- ANSI C63.10-2013

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

# 2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

## 2.1 Carrier Frequency and Channel

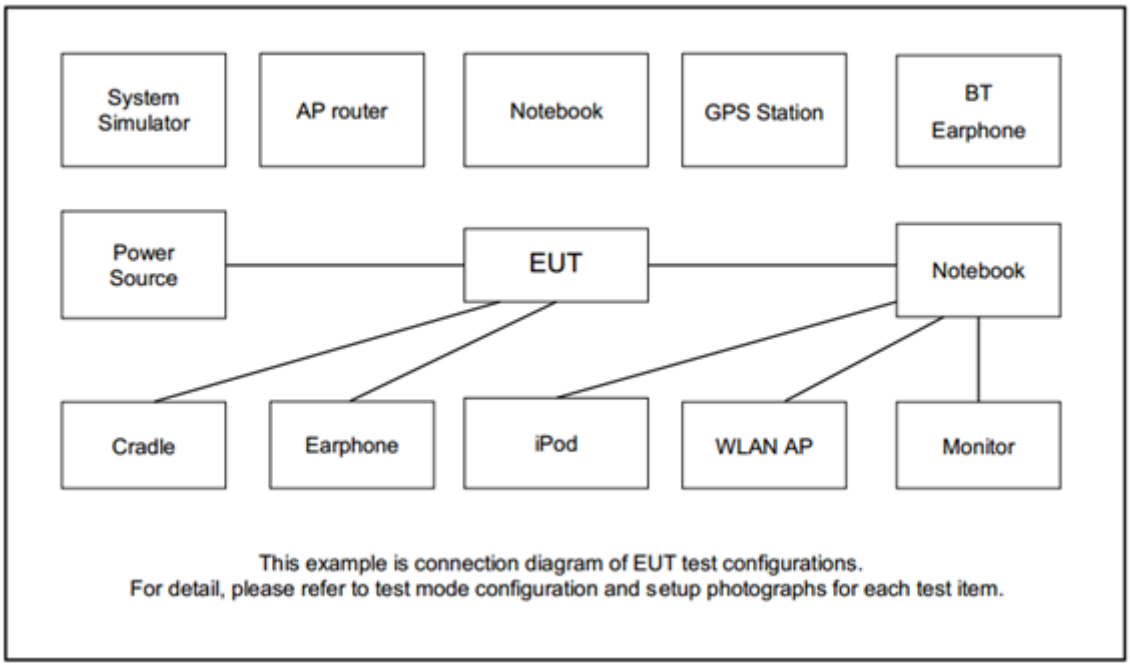
| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|---|---|---|---|---|
| 2400-2483.5 MHz | 1 | 2412 | 7 | 2442 |
| | 2 | 2417 | 8 | 2447 |
| | 3 | 2422 | 9 | 2452 |
| | 4 | 2427 | 10 | 2457 |
| | 5 | 2432 | 11 | 2462 |
| | 6 | 2437 | | |

## 2.2 Test Mode

**The final test modes include the worst data rates for each modulation shown in the table below.**

| Modulation | Data Rate |
|---|---|
| 802.11b | 1 Mbps |
| 802.11g | 6 Mbps |
| 802.11n HT20 | MCS0 |

## 2.3 Connection Diagram of Test System




## 2.4 Support Unit used in test configuration and system

| Item | Equipment | Brand Name | Model Name | FCC ID | Data Cable | Power Cord |
|---|---|---|---|---|---|---|
| 1. | Notebook | DELL | Latitude 3400 | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |

## 2.5 EUT Operation Test Setup

The RF test items, utility “Git Bash v2.47.0.2” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

# 3 Test Result

## 3.1 Output Power Measurement

### 3.1.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna with directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

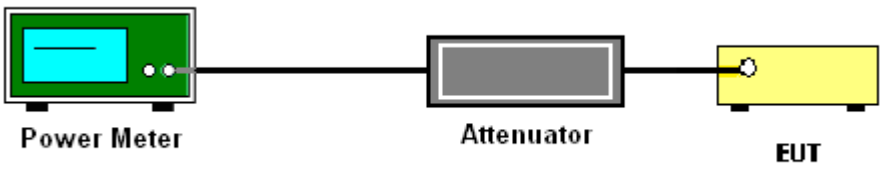
### 3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.1.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Measure the conducted output power and record the results in the test report.

### 3.1.4 Test Setup




### 3.1.5 Test Result of Average Output Power

Please refer to Appendix A.

# 3.2 Radiated Band Edges and Spurious Emission Measurement

## 3.2.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

| 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 |

## 3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

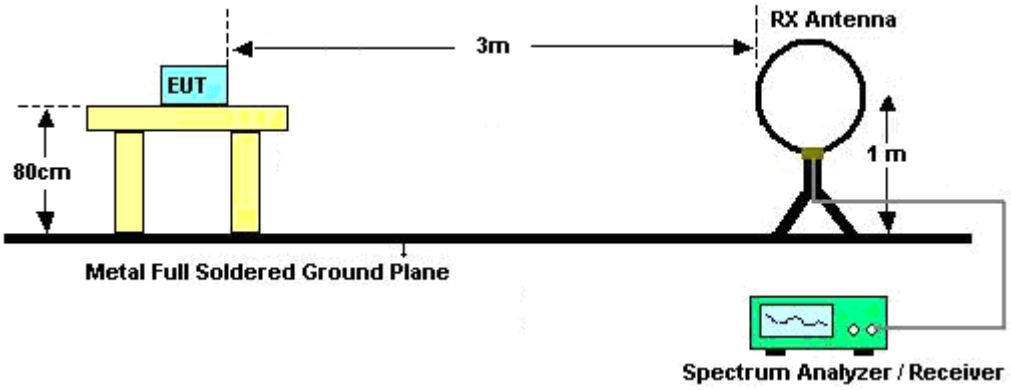
## 3.2.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.

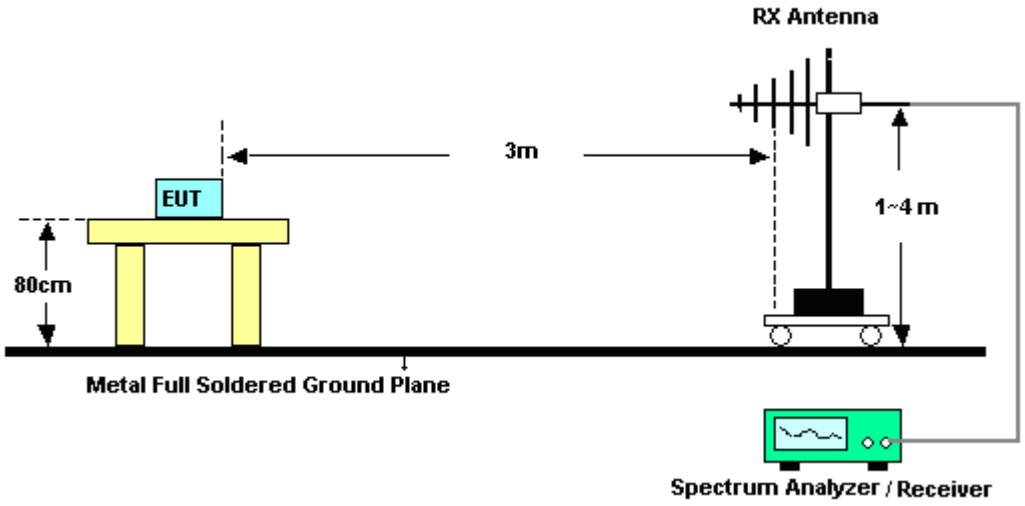
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".
8. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW = 100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3 MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

## 3.2.4 Test Setup

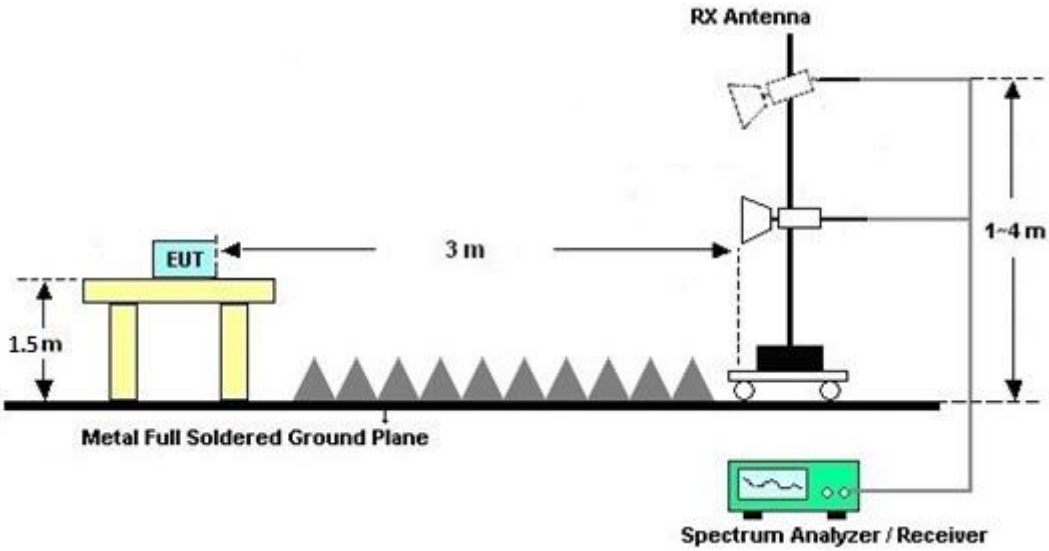
**For radiated emissions below 30MHz**



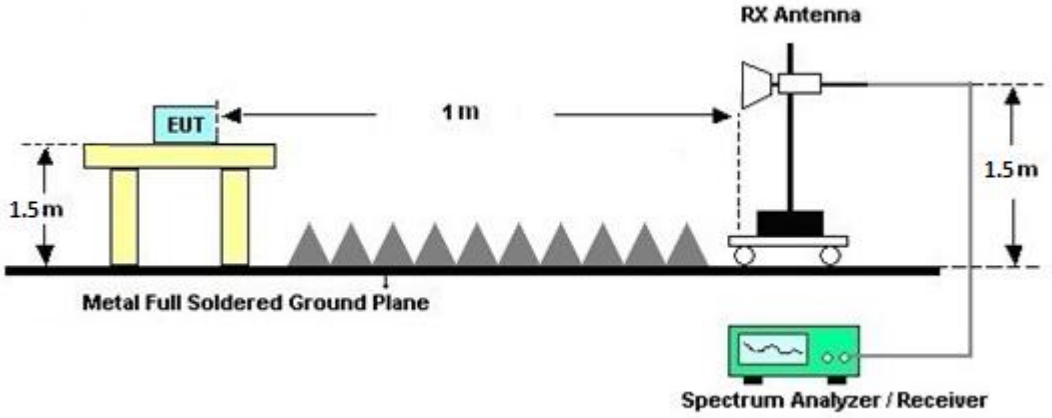
**For radiated emissions from 30MHz to 1GHz**




**For radiated test from 1GHz to 18GHz**



**For radiated test above 18GHz**




### 3.2.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

### 3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

### 3.2.7 Duty Cycle

Please refer to Appendix C.

### 3.2.8 Test Result of Radiated Spurious Emission (30MHz ~ 10$^{th}$ Harmonic)

Please refer to Appendix B.

## 3.3 Antenna Requirements

### 3.3.1 Standard Applicable

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### 3.3.2 Antenna Anti-Replacement Construction

Antenna permanently attached.

# 4 List of Measuring Equipment

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 100488 | 9 kHz~30 MHz | Aug. 29, 2028 | Dec. 02, 2024 | Aug. 28, 2025 | Radiation (03CH15-HY) |
| Bilog Antenna | TESEQ | CBL 6111D & 00800N1D01N-06 | 41912 & 05 | 30MHz~1GHz | Feb. 04, 2024 | Dec. 02, 2024 | Feb. 03, 2025 | Radiation (03CH15-HY) |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | 9120D-02294 | 1GHz~18GHz | Jun. 20, 2024 | Dec. 02, 2024 | Jun. 19, 2025 | Radiation (03CH15-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | 1223 | 18GHz~40GHz | Jun. 24, 2024 | Dec. 02, 2024 | Jun. 23, 2025 | Radiation (03CH15-HY) |
| Amplifier | SONOMA | 310N | 363440 | 9kHz~1GHz | Dec. 25, 2023 | Dec. 02, 2024 | Dec. 24, 2024 | Radiation (03CH15-HY) |
| Preamplifier | EMEC | EM01G18G | 060837 | 1GHz~18GHz | Feb. 15, 2024 | Dec. 02, 2024 | Feb. 14, 2025 | Radiation (03CH15-HY) |
| Preamplifier | EM Electronics | EM01G18G | 060802 | 1GHz~18GHz | Feb. 29, 2024 | Dec. 02, 2024 | Feb. 28, 2025 | Radiation (03CH15-HY) |
| Preamplifier | EMEC | EM18G40G | 060801 | 18GHz~40GHz | May 27, 2024 | Dec. 02, 2024 | May 26, 2025 | Radiation (03CH15-HY) |
| Spectrum Analyzer | Keysight | N9010B | MY60241058 | 10Hz~44GHz | Jul. 11, 2024 | Dec. 02, 2024 | Jul. 10, 2025 | Radiation (03CH15-HY) |
| MI Test Receiver | Keysight | N9038A(MXE) | MY54130085 | 20MHz~8.4GHz | Oct. 16, 2024 | Dec. 02, 2024 | Oct. 15, 2025 | Radiation (03CH15-HY) |
| Antenna Mast | ChainTek | MBS-520-1 | N/A | 1m~4m | N/A | Dec. 02, 2024 | N/A | Radiation (03CH15-HY) |
| Turn Table | ChainTek | T-200-S-1 | N/A | 0~360 Degree | N/A | Dec. 02, 2024 | N/A | Radiation (03CH15-HY) |
| Software | Audix | E3_V9_230621 | RK-002394 | N/A | N/A | Dec. 02, 2024 | N/A | Radiation (03CH15-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104, 102E | MY582185/4, 519228/2,803950/2 | N/A | Jun. 11, 2024 | Dec. 02, 2024 | Jun. 10, 2025 | Radiation (03CH15-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 804011/2,804012/2 | 18-40G | Jan. 02, 2024 | Dec. 02, 2024 | Jan. 01, 2025 | Radiation (03CH15-HY) |
| Filter | Wainwright | WLJ4-1000-1530-6000-40ST | SN4 | 1.53GHz Low Pass Filter | Jun. 05, 2024 | Dec. 02, 2024 | Jun. 04, 2025 | Radiation (03CH15-HY) |
| Filter | Wainwright | KX12-2700-3000-18000-60ST | SN4 | 3GHz High Pass Filter | Jun. 05, 2024 | Dec. 02, 2024 | Jun. 04, 2025 | Radiation (03CH15-HY) |
| Hygrometer | TECPEL | DTM-302 | SN4 | N/A | Aug. 29, 2028 | Dec. 02, 2024 | Aug. 28, 2025 | Radiation (03CH15-HY) |
| Hygrometer | TECPEL | DTM-303A | TP201996 | N/A | Nov. 01, 2024 | Nov. 15, 2024 | Oct. 30, 2025 | Conducted (TH05-HY) |
| Power Sensor | DARE | RPR3006W | 15I00041SNO10 (NO:248) | 10MHz~6GHz | Jan. 10, 2024 | Nov. 15, 2024 | Jan. 09, 2025 | Conducted (TH05-HY) |
| Signal Analyzer | Rohde & Schwarz | FSV40 | 101566 | 10Hz~40GHz | Aug. 23, 2024 | Nov. 15, 2024 | Aug. 22, 2025 | Conducted (TH05-HY) |
| Switch Control Mainframe | Burgeon | ETF-058 | EC1300484 (BOX3) | N/A | May 20, 2024 | Nov. 15, 2024 | May 19, 2025 | Conducted (TH05-HY) |
| Software | Sporton | BTWIFI_Final_version_240513 | N/A | Conducted Other Test Item | N/A | Nov. 15, 2024 | N/A | Conducted (TH05-HY) |

# 5 Measurement Uncertainty

**Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)**

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **6.30 dB** |

**Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)**

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **4.40 dB** |

**Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)**

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **5.40 dB** |

**Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)**

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **5.20 dB** |

# Appendix A. Test Result of Conducted Test Items

| | | | | |
|---|---|---|---|---|
| Test Engineer: | Benny Ku | Temperature: | 21~25 | °C |
| Test Date: | 2024/11/15 | Relative Humidity: | 51~54 | % |

## *TEST RESULTS DATA*
## *Average Output Power*

| 2.4GHz Band Single Antenna | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | | | Conducted Power Limit (dBm) | | DG (dBi) | | EIRP Power (dBm) | | EIRP Power Limit (dBm) | | Pass /Fail |
| | | | | | Ant1 | Ant2 | SUM | Ant1 | Ant2 | Ant1 | Ant2 | Ant1 | Ant2 | Ant1 | Ant2 | |
| 11b | 1Mbps | 1 | 1 | 2412 | 12.84 | - | | 30.00 | - | 4.10 | - | 16.94 | - | 36.00 | - | Pass |
| 11b | 1Mbps | 1 | 6 | 2437 | 13.70 | - | | 30.00 | - | 4.10 | - | 17.80 | - | 36.00 | - | Pass |
| 11b | 1Mbps | 1 | 11 | 2462 | 12.78 | - | | 30.00 | - | 4.10 | - | 16.88 | - | 36.00 | - | Pass |
| 11g | 6Mbps | 1 | 1 | 2412 | 8.19 | - | | 30.00 | - | 4.10 | - | 12.29 | - | 36.00 | - | Pass |
| 11g | 6Mbps | 1 | 6 | 2437 | 11.45 | - | | 30.00 | - | 4.10 | - | 15.55 | - | 36.00 | - | Pass |
| 11g | 6Mbps | 1 | 11 | 2462 | 7.92 | - | | 30.00 | - | 4.10 | - | 12.02 | - | 36.00 | - | Pass |
| HT20 | MCS0 | 1 | 1 | 2412 | 7.79 | - | | 30.00 | - | 4.10 | - | 11.89 | - | 36.00 | - | Pass |
| HT20 | MCS0 | 1 | 6 | 2437 | 11.09 | - | | 30.00 | - | 4.10 | - | 15.19 | - | 36.00 | - | Pass |
| HT20 | MCS0 | 1 | 11 | 2462 | 7.43 | - | | 30.00 | - | 4.10 | - | 11.53 | - | 36.00 | - | Pass |

# Appendix B. Radiated Spurious Emission Test Data

| | | | |
|---|---|---|---|
| **Test Engineer :** | Sam Pan and Quentin Liu | **Relative Humidity :** | 22.2~22.5℃ |
| | | **Temperature :** | 52~56% |

**Note symbol**

| | |
|---|---|
| -L | **Low channel location** |
| -R | **High channel location** |

## B1. Radiated Spurious Emission Test Modes

| Mode | Band (MHz) | Antenna | Modulation | Channel | Frequency | Data Rate | RU | Remark |
|---|---|---|---|---|---|---|---|---|
| Mode 1 | 2400-2483.5 | 1+2 | 802.11b | 01 | 2412 | 1Mbps | - | - |
| Mode 2 | 2400-2483.5 | 1+2 | 802.11b | 06 | 2437 | 1Mbps | - | - |
| Mode 3 | 2400-2483.5 | 1+2 | 802.11b | 11 | 2462 | 1Mbps | - | - |
| Mode 4 | 2400-2483.5 | 1+2 | 802.11g | 01 | 2412 | 6Mbps | - | - |
| Mode 5 | 2400-2483.5 | 1+2 | 802.11g | 06 | 2437 | 6Mbps | - | - |
| Mode 6 | 2400-2483.5 | 1+2 | 802.11g | 11 | 2462 | 6Mbps | - | - |
| Mode 7 | 2400-2483.5 | 1+2 | 802.11n HT20 | 1 | 2412 | MCS0 | - | - |
| Mode 8 | 2400-2483.5 | 1+2 | 802.11n HT20 | 6 | 2437 | MCS0 | - | - |
| Mode 9 | 2400-2483.5 | 1+2 | 802.11n HT20 | 11 | 2462 | MCS0 | - | - |
| Mode 10 | 2400-2483.5 | 1+2 | 802.11g | 11 | 2462 | 6Mbps | - | LF |
| Mode 11 | 2400-2483.5 | 1+2 | 802.11g | 11 | 2462 | 6Mbps | - | SHF |

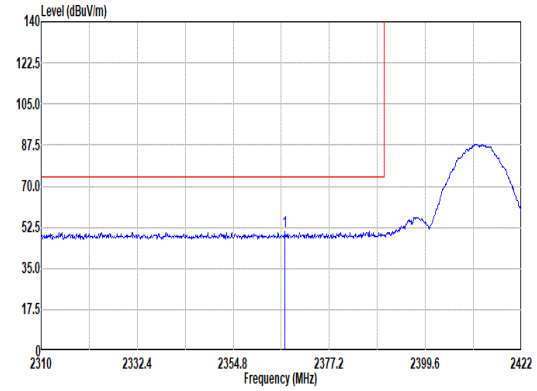
## C2. Summary of each worse mode

| Mode | Modulation | Ch. | Freq. (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pol. | Peak Avg. | Result | RU | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 802.11b | 01 | 2389.97 | 39.85 | 54.00 | -14.15 | V | Avg. | Pass | - | Band Edge |
| | 802.11b | 01 | - | - | - | - | - | - | - | - | Harmonic |
| 2 | 802.11b | 06 | - | - | - | - | - | - | - | - | Band Edge |
| | 802.11b | 06 | 7311.00 | 43.66 | 74.00 | -30.34 | H | Peak | Pass | - | Harmonic |
| 3 | 802.11b | 11 | 2487.52 | 40.35 | 54.00 | -13.65 | V | Avg. | Pass | - | Band Edge |
| | 802.11b | 11 | - | - | - | - | - | - | - | - | Harmonic |
| 4 | 802.11g | 01 | 2389.97 | 39.83 | 54.00 | -14.17 | V | Avg. | Pass | - | Band Edge |
| | 802.11g | 01 | - | - | - | - | - | - | - | - | Harmonic |
| 5 | 802.11g | 06 | - | - | - | - | - | - | - | - | Band Edge |
| | 802.11g | 06 | 7311.00 | 43.43 | 74.00 | -30.57 | V | Peak | Pass | - | Harmonic |
| 6 | 802.11g | 11 | 2483.54 | 41.34 | 54.00 | -12.66 | V | Avg. | Pass | - | Band Edge |
| | 802.11g | 11 | - | - | - | - | - | - | - | - | Harmonic |

| Mode | Modulation | Ch. | Freq. (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pol. | Peak Avg. | Result | RU | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 802.11n HT20 | 1 | 2389.97 | 40.12 | 54.00 | -13.88 | V | Avg. | Pass | - | Band Edge |
| | 802.11n HT20 | 1 | - | - | - | - | - | - | - | - | Harmonic |
| 8 | 802.11n HT20 | 6 | - | - | - | - | - | - | - | - | Band Edge |
| | 802.11n HT20 | 6 | 7311.00 | 43.50 | 74.00 | -30.50 | V | Peak | Pass | - | Harmonic |
| 9 | 802.11n HT20 | 11 | 2483.54 | 41.17 | 54.00 | -12.83 | V | Avg. | Pass | - | Band Edge |
| | 802.11n HT20 | 11 | - | - | - | - | - | - | - | - | Harmonic |
| 10 | LF | 11 | 77.53 | 39.29 | 40.00 | -0.71 | H | QP | Pass | - | LF |
| 11 | SHF | 11 | 39713.98 | 47.40 | 74.00 | -26.60 | V | Peak | Pass | - | SHF |

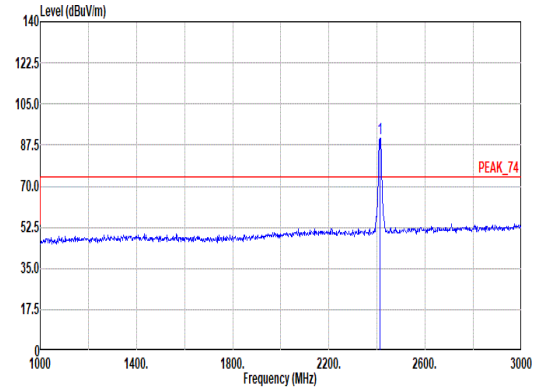
| Mode | 1 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11b_CH01_2412MHz | |
| ANT | 1+2 | |
| Pol. | Horizontal | Fundamental |

**Peak**




Site : 03CH15-HY
Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

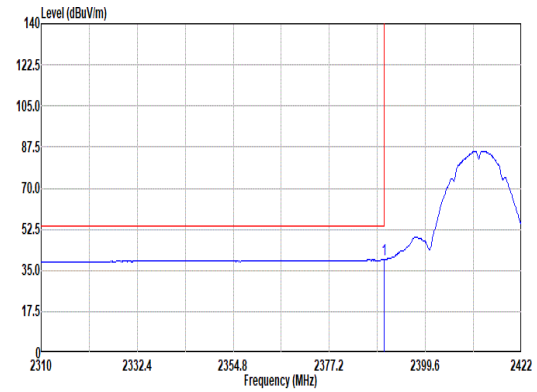
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2366.90 | 50.58 | 74.00 | -23.42 | 44.21 | 27.33 | 5.61 | 36.49 | 9.92 | 100 | 233 | PEAK |




Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

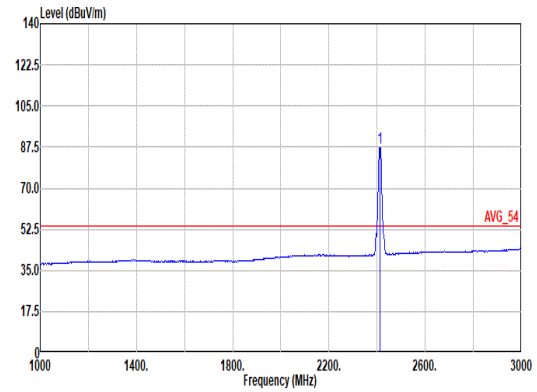
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2412.00 | 90.52 | ------ | ------ | 83.96 | 27.45 | 5.67 | 36.48 | 9.92 | 100 | 233 | PEAK |

**Avg**




Site : 03CH15-HY
Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2389.97 | 39.44 | 54.00 | -14.56 | 32.98 | 27.38 | 5.64 | 36.48 | 9.92 | 100 | 233 | AVERAGE |

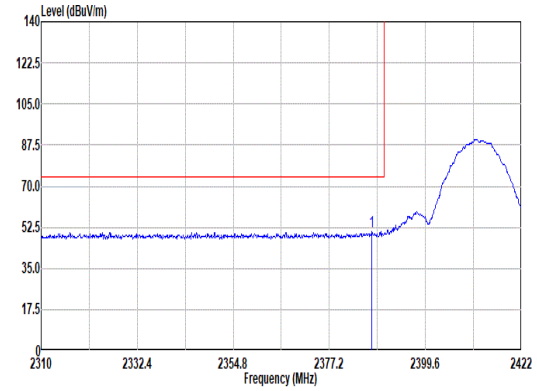



Site : 03CH15-HY
Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2412.00 | 87.21 | ------ | ------ | 80.65 | 27.45 | 5.67 | 36.48 | 9.92 | 100 | 233 | AVERAGE |

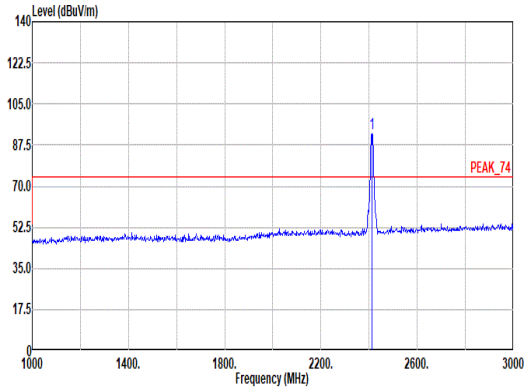
| Mode | 1 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11b_CH01_2412MHz | |
| ANT | 1+2 | |
| Pol. | Vertical | Fundamental |

**Peak**




Site : 03CH15-HY
Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

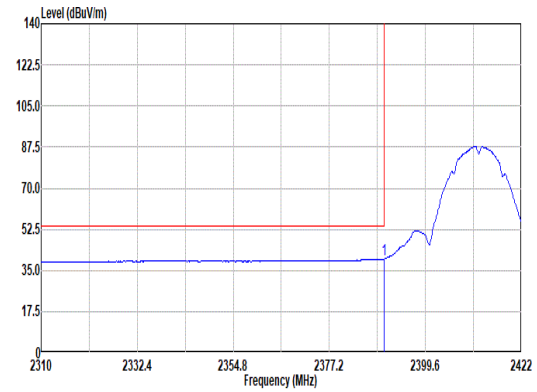
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2387.17 | 50.64 | 74.00 | -23.36 | 44.20 | 27.37 | 5.63 | 36.48 | 9.92 | 319 | 149 | PEAK |




Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

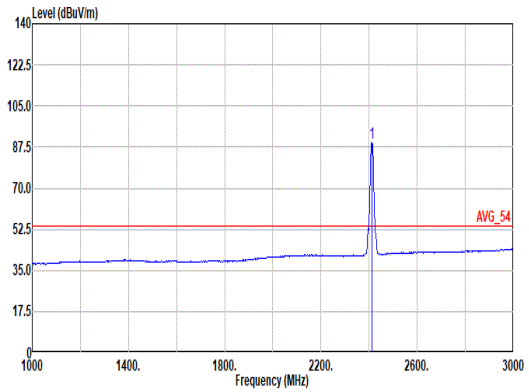
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2412.00 | 92.45 | ------ | ------ | 85.89 | 27.45 | 5.67 | 36.48 | 9.92 | 319 | 149 | PEAK |

**Avg**



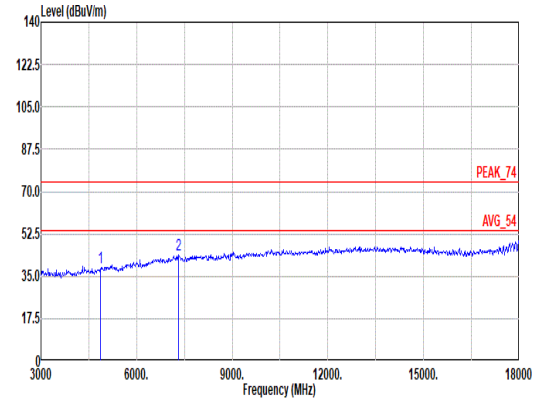
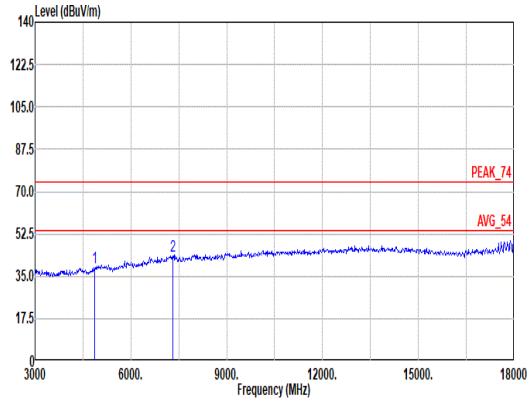

Site : 03CH15-HY
Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2389.97 | 39.85 | 54.00 | -14.15 | 33.39 | 27.38 | 5.64 | 36.48 | 9.92 | 319 | 149 | AVERAGE |




Site : 03CH15-HY
Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2412.00 | 89.09 | ------ | ------ | 82.53 | 27.45 | 5.67 | 36.48 | 9.92 | 319 | 149 | AVERAGE |

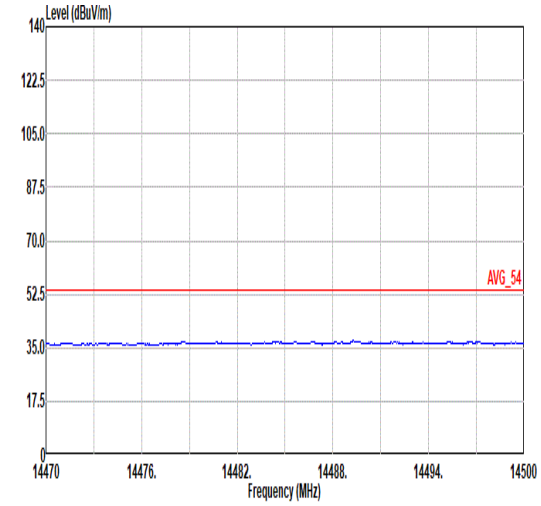
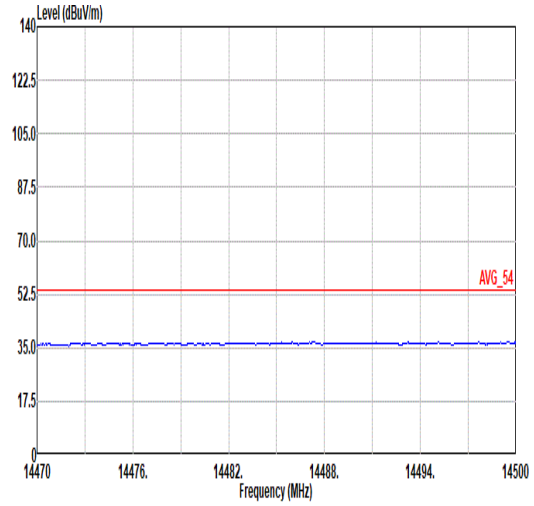
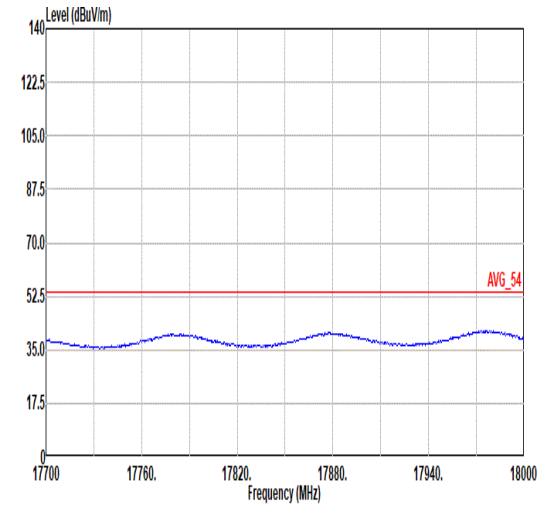
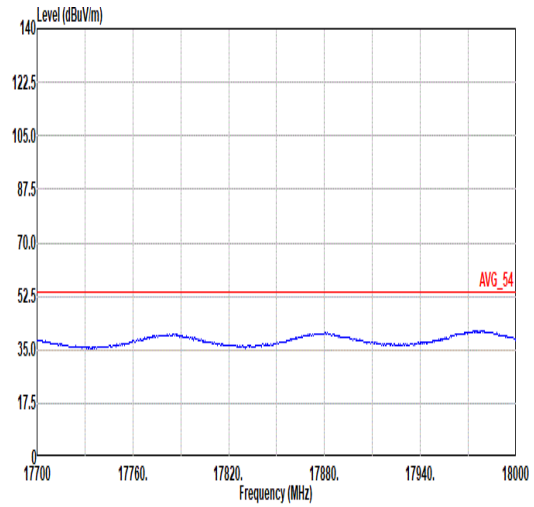
| Mode | 2 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11b_CH06_2437MHz | |
| ANT | 1+2 | |
| Pol. | Horizontal | Vertical |
| Peak<br>Avg |  |  |

Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 4874.00 | 38.36 | 74.00 | -35.64 | 56.34 | 32.60 | 8.21 | 59.19 | 0.40 | -- | -- | PEAK |
| 2 | 7311.00 | 43.66 | 74.00 | -30.34 | 56.36 | 36.86 | 10.01 | 59.83 | 0.26 | -- | -- | PEAK |

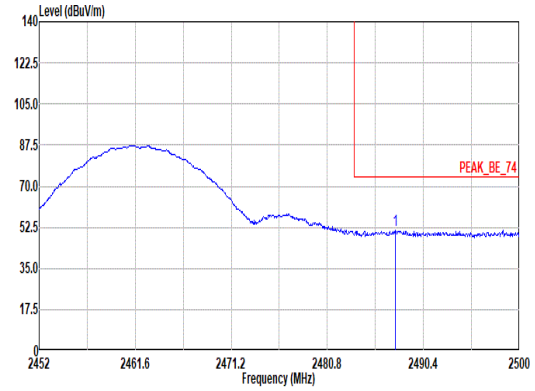
Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 4874.00 | 38.45 | 74.00 | -35.55 | 56.43 | 32.60 | 8.21 | 59.19 | 0.40 | -- | -- | PEAK |
| 2 | 7311.00 | 43.13 | 74.00 | -30.87 | 55.83 | 36.86 | 10.01 | 59.83 | 0.26 | -- | -- | PEAK |

| Mode | 2 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11b_CH06_2437MHz | |
| ANT | 1+2 | |
| Pol. | Horizontal | Vertical |
| 14.47G ~14.5G Avg |  <br>Site : 03CH15-HY<br>Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL |  <br>Site : 03CH15-HY<br>Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL |
| 17.7G ~18G Avg |  <br>Site : 03CH15-HY<br>Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL |  <br>Site : 03CH15-HY<br>Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL |

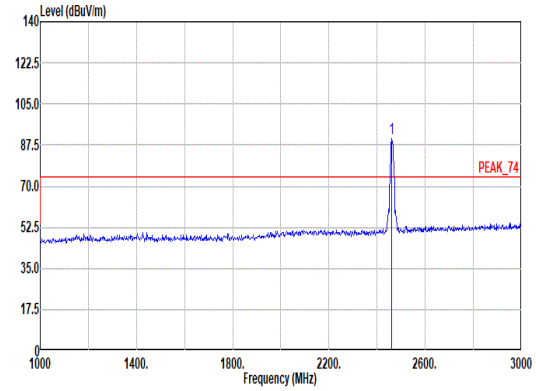
| Mode | 3 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11b_CH11_2462MHz | |
| ANT | 1+2 | |
| Pol. | Horizontal | Fundamental |

**Peak**




Site : 03CH15-HY
Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

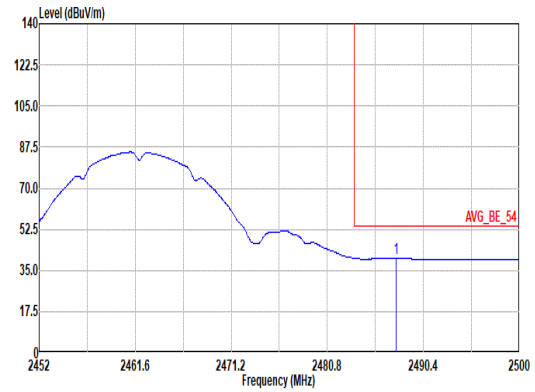
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2487.57 | 51.21 | 74.00 | -22.79 | 44.15 | 27.83 | 5.77 | 36.46 | 9.92 | 100 | 226 | PEAK |




Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

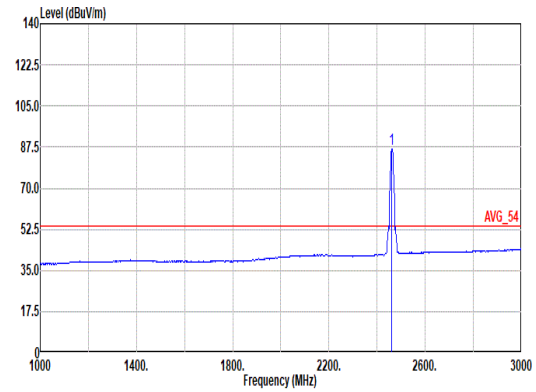
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2462.00 | 90.09 | ------ | ------ | 83.23 | 27.67 | 5.74 | 36.47 | 9.92 | 100 | 226 | PEAK |

**Avg**




Site : 03CH15-HY
Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2487.66 | 40.32 | 54.00 | -13.68 | 33.26 | 27.83 | 5.77 | 36.46 | 9.92 | 100 | 226 | AVERAGE |

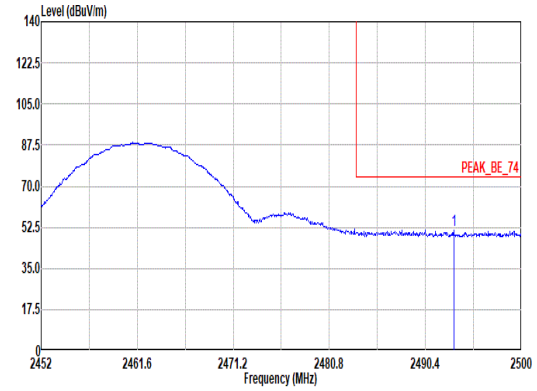



Site : 03CH15-HY
Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2462.00 | 86.71 | ------ | ------ | 79.85 | 27.67 | 5.74 | 36.47 | 9.92 | 100 | 226 | AVERAGE |

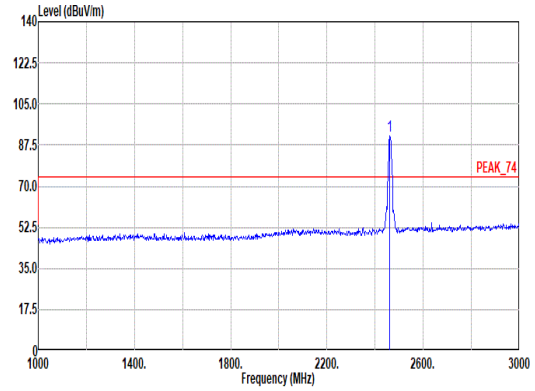
| Mode | 3 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11b_CH11_2462MHz | |
| ANT | 1+2 | |
| Pol. | Vertical | Fundamental |

**Peak**




Site : 03CH15-HY
Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

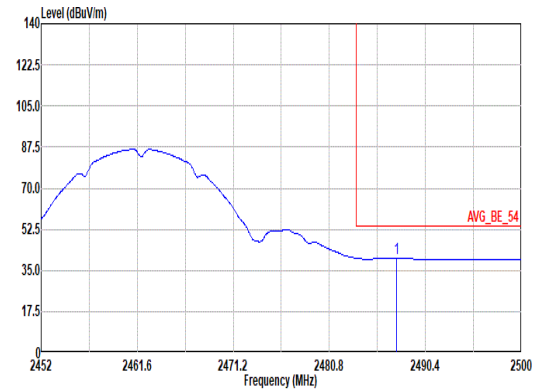
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2493.23 | 51.28 | 74.00 | -22.72 | 44.18 | 27.86 | 5.78 | 36.46 | 9.92 | 333 | 139 | PEAK |




Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

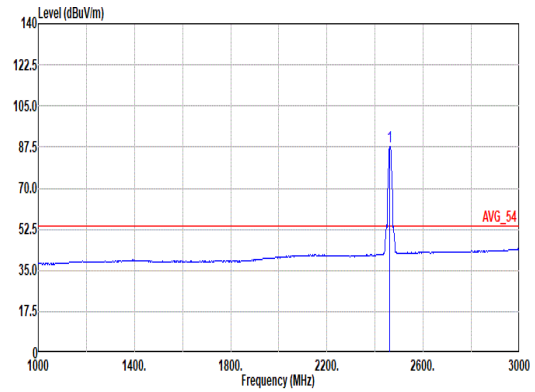
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2462.00 | 91.22 | ------ | ------ | 84.36 | 27.67 | 5.74 | 36.47 | 9.92 | 333 | 139 | PEAK |

**Avg**




Site : 03CH15-HY
Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2487.52 | 40.35 | 54.00 | -13.65 | 33.29 | 27.83 | 5.77 | 36.46 | 9.92 | 333 | 139 | AVERAGE |

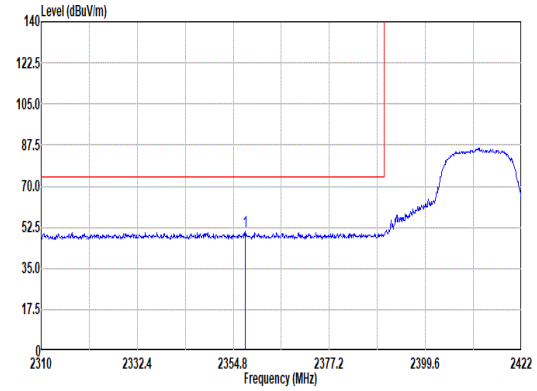



Site : 03CH15-HY
Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2462.00 | 87.95 | ------ | ------ | 81.09 | 27.67 | 5.74 | 36.47 | 9.92 | 333 | 139 | AVERAGE |

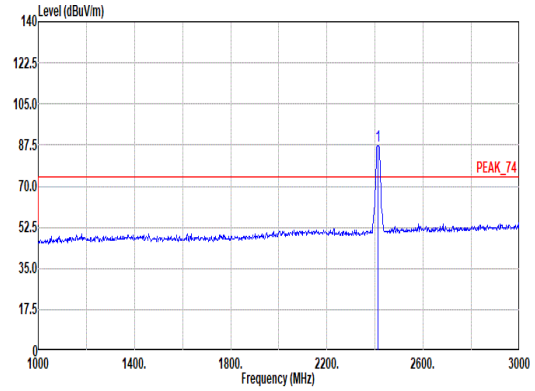
| Mode | 4 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11g_CH01_2412MHz | |
| ANT | 1+2 | |
| Pol. | Horizontal | Fundamental |

**Peak**




Site : 03CH15-HY
Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

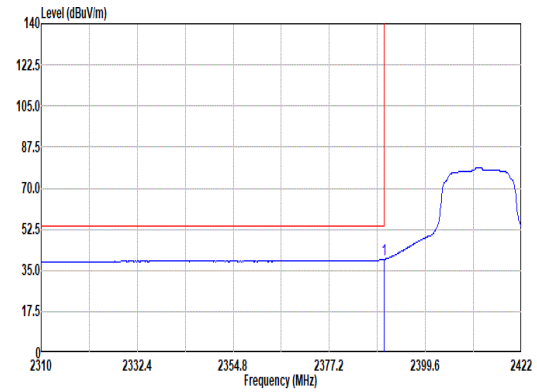
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2357.60 | 50.53 | 74.00 | -23.47 | 44.18 | 27.32 | 5.60 | 36.49 | 9.92 | 127 | 228 | PEAK |




Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

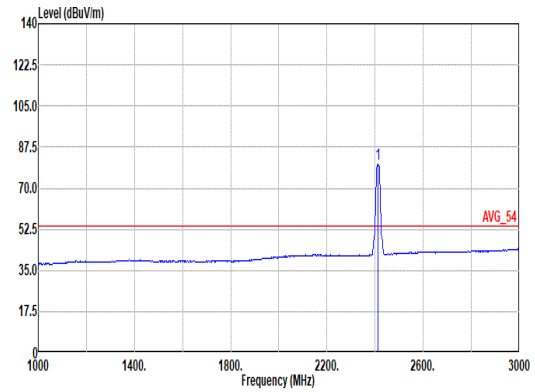
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2412.00 | 87.41 | ------ | ------ | 80.85 | 27.45 | 5.67 | 36.48 | 9.92 | 127 | 228 | PEAK |

**Avg**




Site : 03CH15-HY
Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2389.97 | 39.70 | 54.00 | -14.30 | 33.24 | 27.38 | 5.64 | 36.48 | 9.92 | 127 | 228 | AVERAGE |

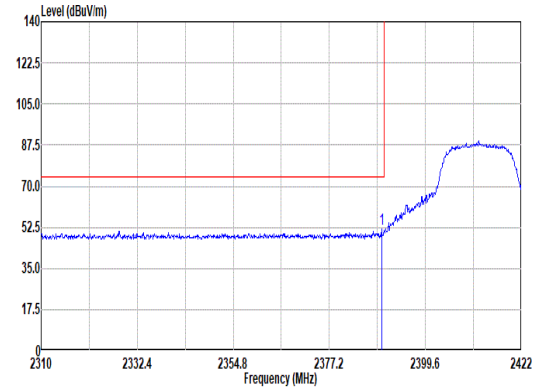



Site : 03CH15-HY
Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2412.00 | 80.56 | ------ | ------ | 74.00 | 27.45 | 5.67 | 36.48 | 9.92 | 127 | 228 | AVERAGE |

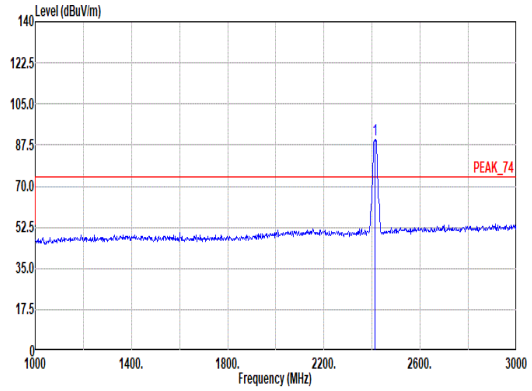
| Mode | 4 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11g_CH01_2412MHz | |
| ANT | 1+2 | |
| Pol. | Vertical | Fundamental |

**Peak**




Site : 03CH15-HY
Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

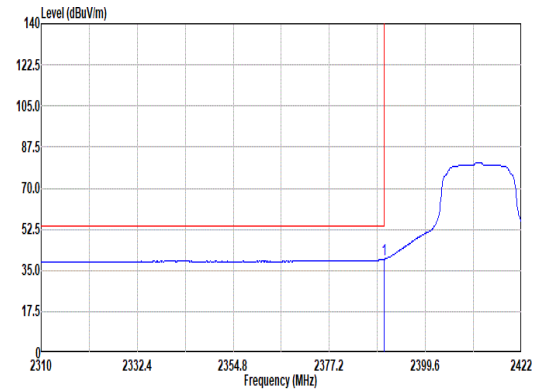
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2389.41 | 51.61 | 74.00 | -22.39 | 45.15 | 27.38 | 5.64 | 36.48 | 9.92 | 400 | 138 | PEAK |




Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

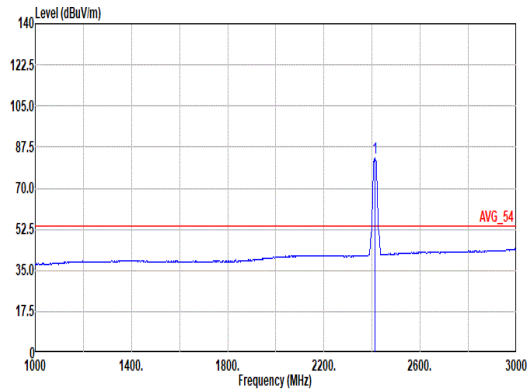
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2412.00 | 89.84 | ------ | ------ | 83.27 | 27.46 | 5.67 | 36.48 | 9.92 | 400 | 138 | PEAK |

**Avg**



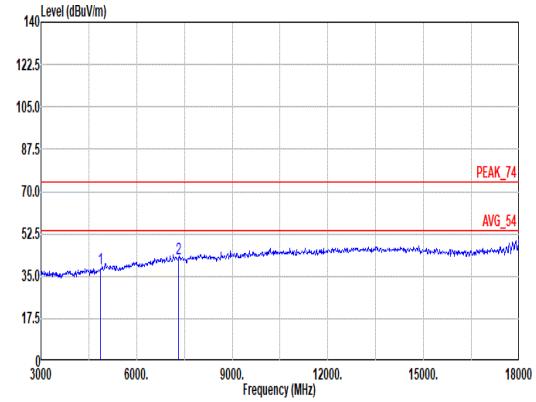
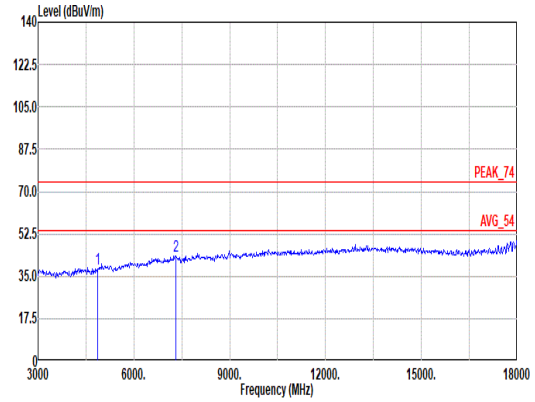

Site : 03CH15-HY
Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

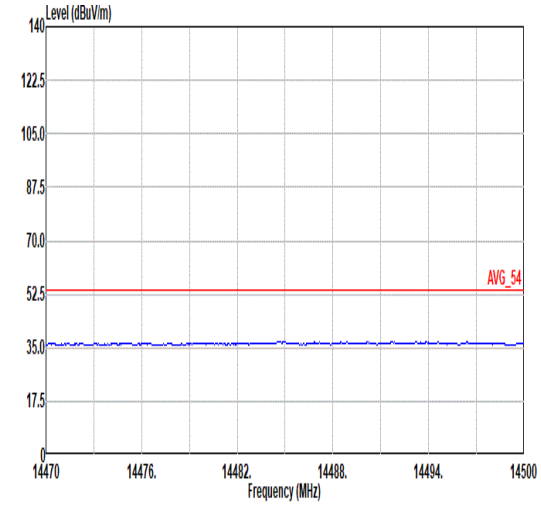
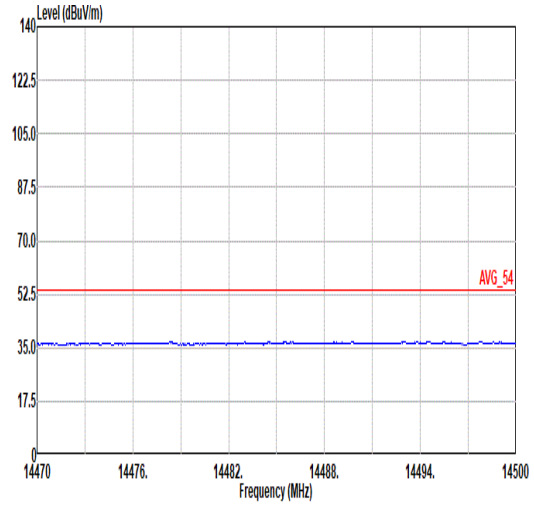
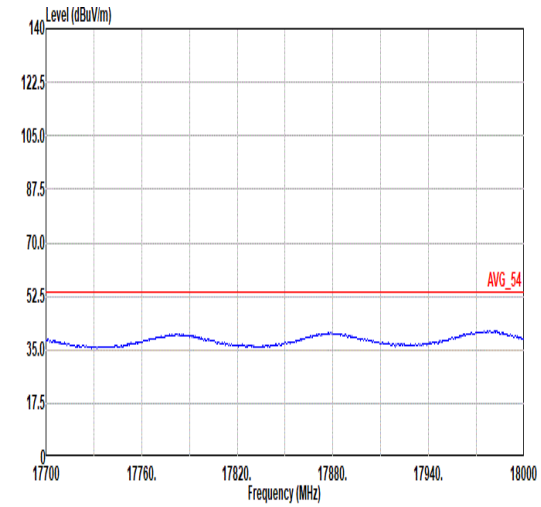
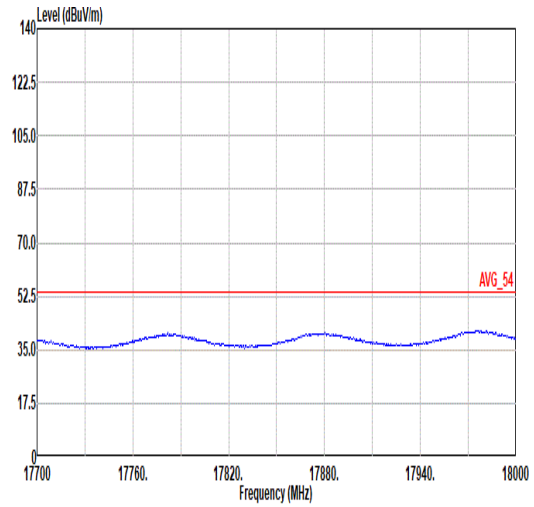
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2389.97 | 39.83 | 54.00 | -14.17 | 33.37 | 27.38 | 5.64 | 36.48 | 9.92 | 400 | 138 | AVERAGE |




Site : 03CH15-HY
Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

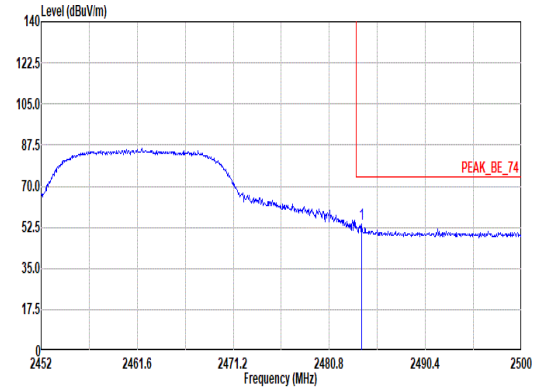
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2412.00 | 82.69 | ------ | ------ | 76.13 | 27.45 | 5.67 | 36.48 | 9.92 | 400 | 138 | AVERAGE |

| Mode | 5 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11g_CH06_2437MHz | |
| ANT | 1+2 | |
| Pol. | Horizontal | Vertical |
| Peak<br>Avg |  <br>Site : 03CH15-HY<br>Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL<br><br>Freq / Level / Limit Line / Margin / Read Level / Ant Factor / Cable Loss / Preamp Factor / Aux Factor / APos / TPos / Remark<br>MHz / dBuV/m / dBuV/m / dB / dBuV / dB/m / dB / dB / dB / cm / deg<br>1 4874.00 38.03 74.00 -35.97 56.01 32.60 8.21 59.19 0.40 -- -- PEAK<br>2 7311.00 42.44 74.00 -31.56 55.14 36.86 10.01 59.83 0.26 -- -- PEAK |  <br>Site : 03CH15-HY<br>Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL<br><br>Freq / Level / Limit Line / Margin / Read Level / Ant Factor / Cable Loss / Preamp Factor / Aux Factor / APos / TPos / Remark<br>MHz / dBuV/m / dBuV/m / dB / dBuV / dB/m / dB / dB / dB / cm / deg<br>1 4874.00 38.08 74.00 -35.92 56.06 32.60 8.21 59.19 0.40 -- -- PEAK<br>2 7311.00 43.43 74.00 -30.57 56.13 36.86 10.01 59.83 0.26 -- -- PEAK |

| Mode | 5 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11g_CH06_2437MHz | |
| ANT | 1+2 | |
| Pol. | Horizontal | Vertical |
| 14.47G ~14.5G Avg |  <br>Site : 03CH15-HY<br>Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL |  <br>Site : 03CH15-HY<br>Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL |
| 17.7G ~18G Avg |  <br>Site : 03CH15-HY<br>Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL |  <br>Site : 03CH15-HY<br>Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL |

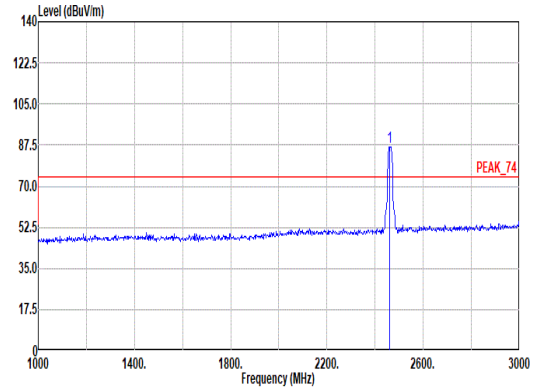
| Mode | 6 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11g_CH11_2462MHz | |
| ANT | 1+2 | |
| Pol. | Horizontal | Fundamental |

**Peak**




Site : 03CH15-HY
Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

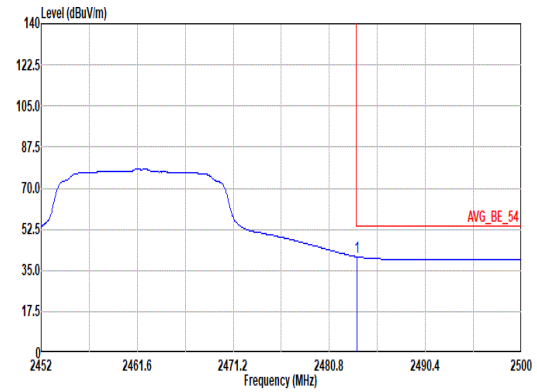
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2484.02 | 53.83 | 74.00 | -20.17 | 46.80 | 27.80 | 5.77 | 36.46 | 9.92 | 157 | 235 | PEAK |




Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

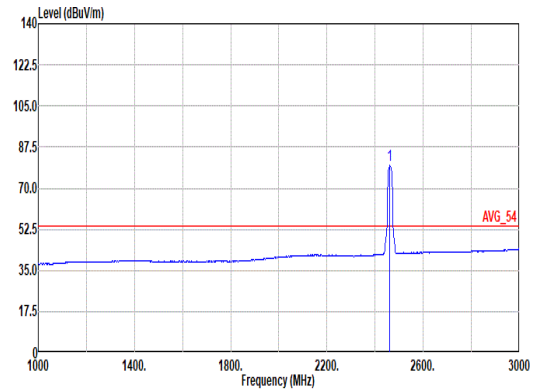
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2462.00 | 86.61 | ------ | ------ | 79.74 | 27.68 | 5.74 | 36.47 | 9.92 | 157 | 235 | PEAK |

**Avg**




Site : 03CH15-HY
Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2483.54 | 40.83 | 54.00 | -13.17 | 33.80 | 27.80 | 5.77 | 36.46 | 9.92 | 157 | 235 | AVERAGE |

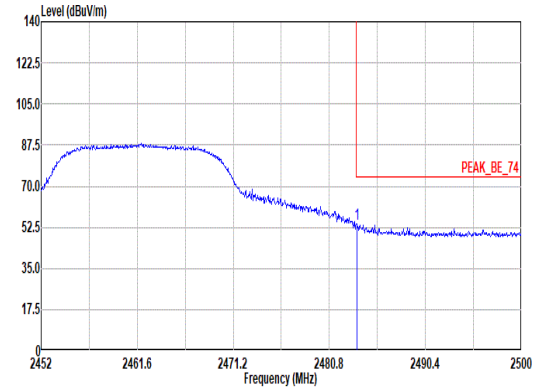



Site : 03CH15-HY
Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2462.00 | 79.78 | ------ | ------ | 72.92 | 27.67 | 5.74 | 36.47 | 9.92 | 157 | 235 | AVERAGE |

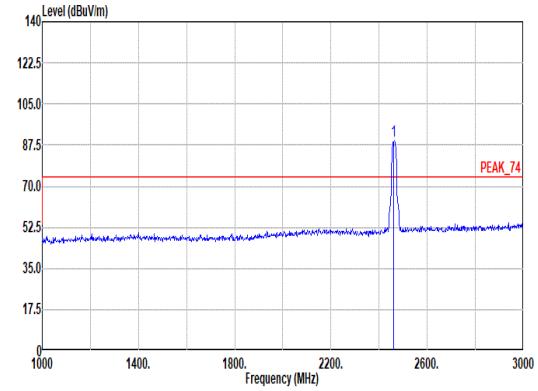
| Mode | 6 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11g_CH11_2462MHz | |
| ANT | 1+2 | |
| Pol. | Vertical | Fundamental |

**Peak**




Site : 03CH15-HY
Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

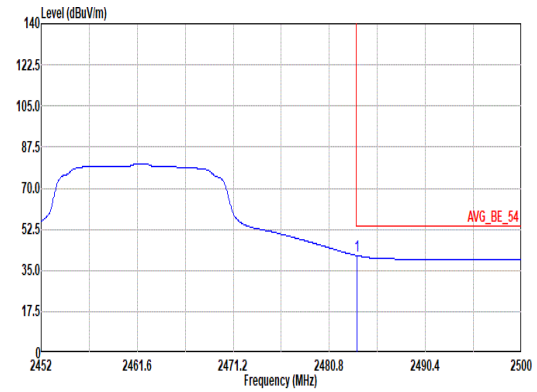
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2483.54 | 54.06 | 74.00 | -19.94 | 47.03 | 27.80 | 5.77 | 36.46 | 9.92 | 338 | 151 | PEAK |




Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

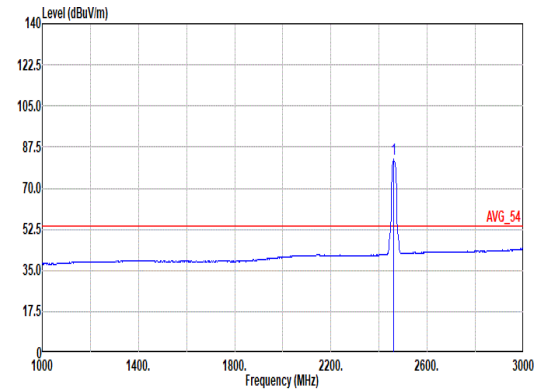
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2462.00 | 89.08 | ------ | ------ | 82.21 | 27.68 | 5.74 | 36.47 | 9.92 | 338 | 151 | PEAK |

**Avg**




Site : 03CH15-HY
Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2483.54 | 41.34 | 54.00 | -12.66 | 34.31 | 27.80 | 5.77 | 36.46 | 9.92 | 338 | 151 | AVERAGE |

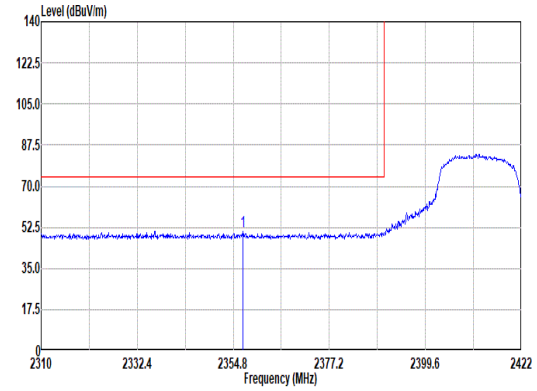



Site : 03CH15-HY
Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2462.00 | 82.19 | ------ | ------ | 75.33 | 27.67 | 5.74 | 36.47 | 9.92 | 338 | 151 | AVERAGE |

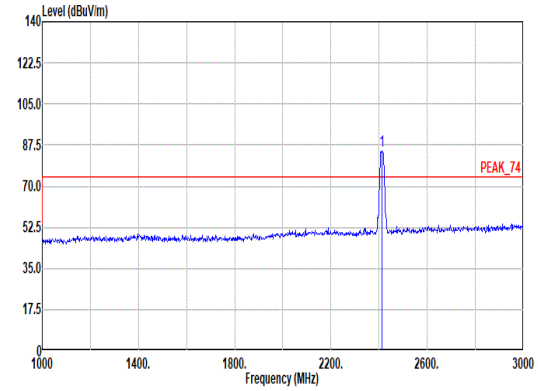
| Mode | 7 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11n HT20_CH1_2412MHz | |
| ANT | 1+2 | |
| Pol. | Horizontal | Fundamental |

**Peak**




Site : 03CH15-HY
Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

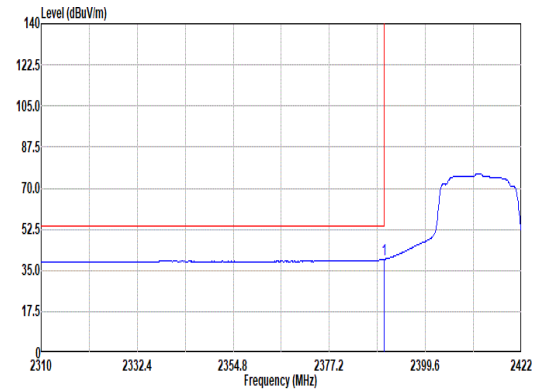
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2357.04 | 50.61 | 74.00 | -23.39 | 44.27 | 27.31 | 5.60 | 36.49 | 9.92 | 321 | 232 | PEAK |




Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

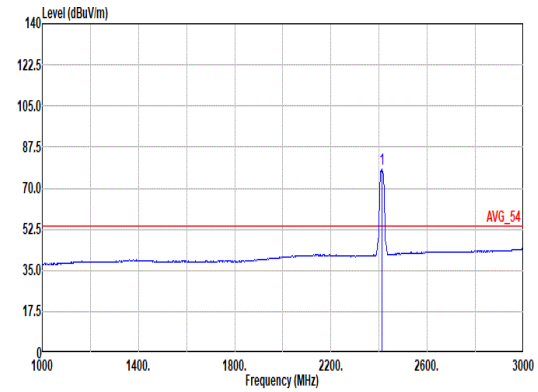
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2412.00 | 84.88 | ------ | ------ | 78.32 | 27.45 | 5.67 | 36.48 | 9.92 | 321 | 232 | PEAK |

**Avg**




Site : 03CH15-HY
Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2389.97 | 39.68 | 54.00 | -14.32 | 33.22 | 27.38 | 5.64 | 36.48 | 9.92 | 321 | 232 | AVERAGE |

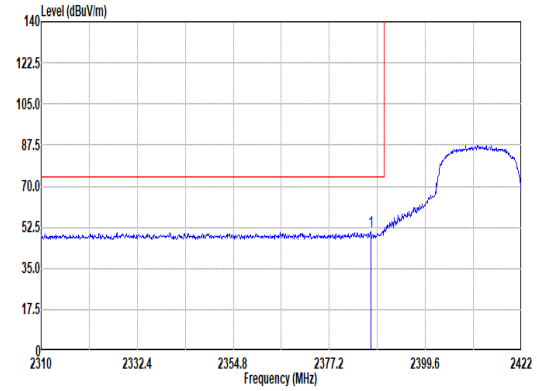



Site : 03CH15-HY
Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2412.00 | 77.97 | ------ | ------ | 71.41 | 27.45 | 5.67 | 36.48 | 9.92 | 321 | 232 | AVERAGE |

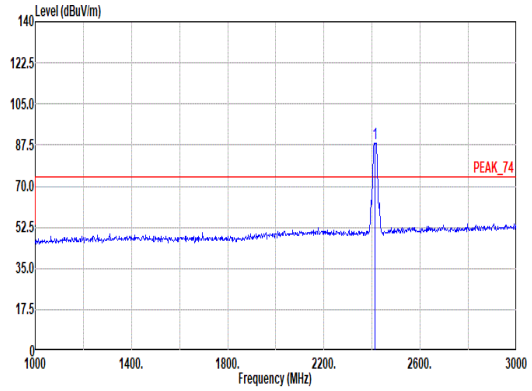
| Mode | 7 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11n HT20_CH1_2412MHz | |
| ANT | 1+2 | |
| Pol. | Vertical | Fundamental |

**Peak**




Site : 03CH15-HY
Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

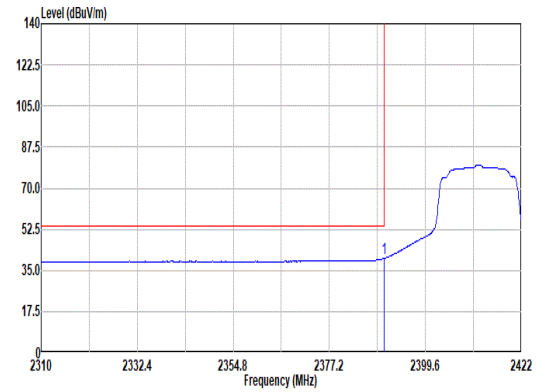
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2386.83 | 50.59 | 74.00 | -23.41 | 44.15 | 27.37 | 5.63 | 36.48 | 9.92 | 400 | 139 | PEAK |




Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

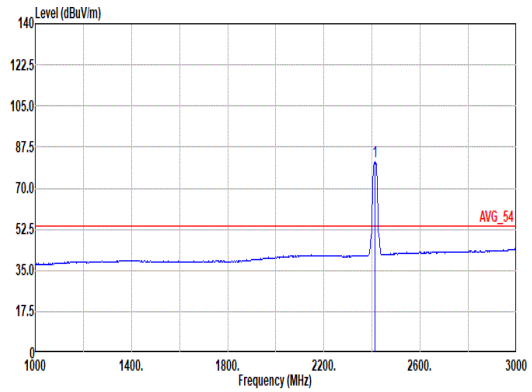
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2412.00 | 88.49 | ------ | ------ | 81.90 | 27.47 | 5.68 | 36.48 | 9.92 | 400 | 139 | PEAK |

**Avg**




Site : 03CH15-HY
Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2389.97 | 40.12 | 54.00 | -13.88 | 33.66 | 27.38 | 5.64 | 36.48 | 9.92 | 400 | 139 | AVERAGE |



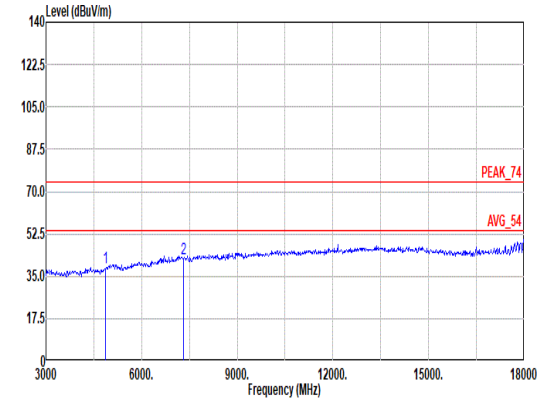

Site : 03CH15-HY
Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2412.00 | 81.44 | ------ | ------ | 74.88 | 27.45 | 5.67 | 36.48 | 9.92 | 400 | 139 | AVERAGE |

| Mode | 8 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11n HT20_CH6_2437MHz | |
| ANT | 1+2 | |
| Pol. | Horizontal | Vertical |

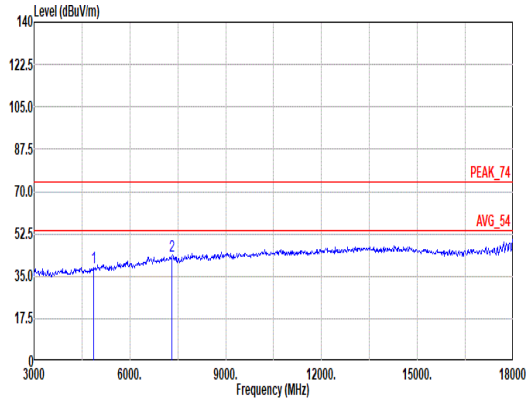
**Peak**

**Avg**



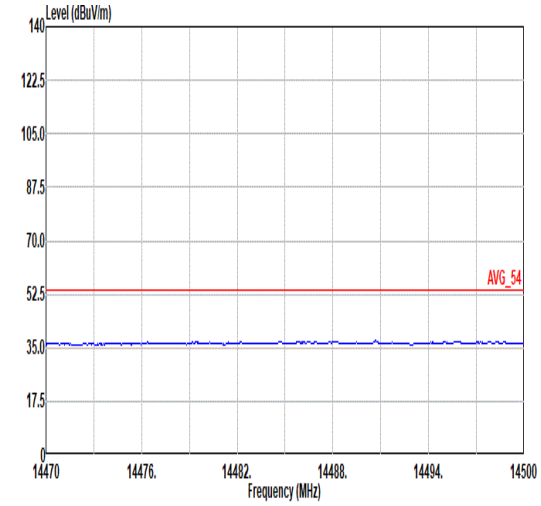
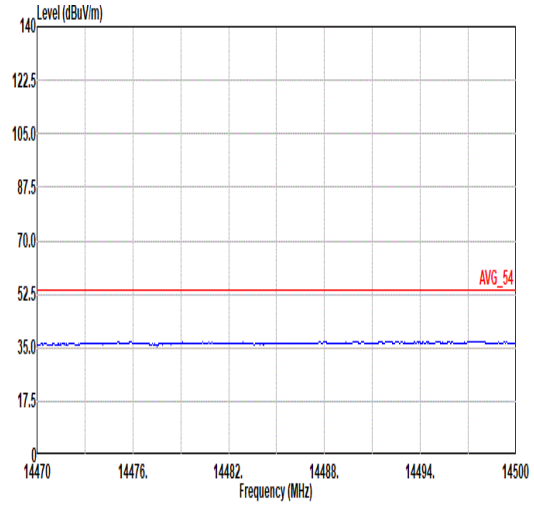
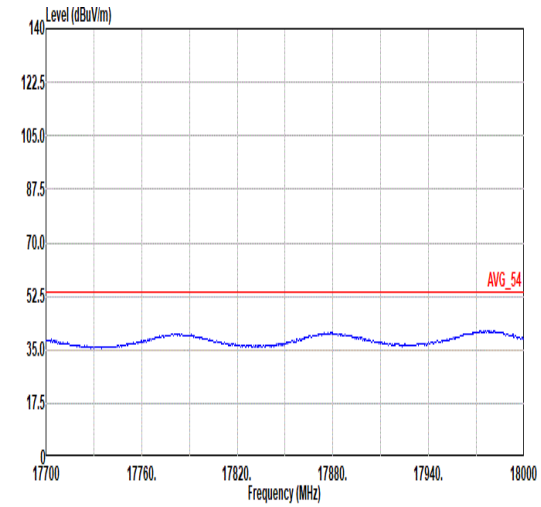
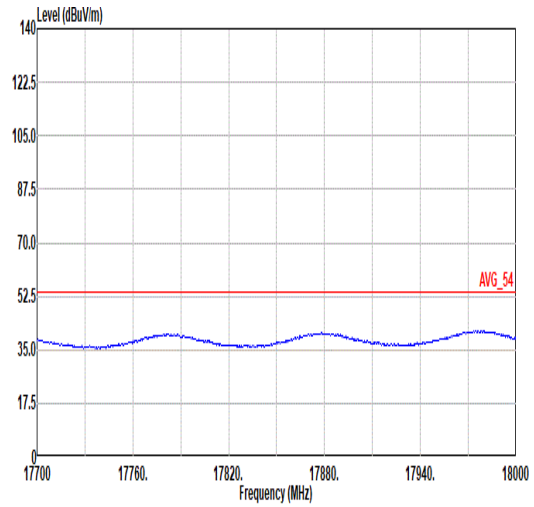

Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 4874.00 | 38.46 | 74.00 | -35.54 | 56.44 | 32.60 | 8.21 | 59.19 | 0.40 | -- | -- | PEAK |
| 2 | 7311.00 | 42.35 | 74.00 | -31.65 | 55.05 | 36.86 | 10.01 | 59.83 | 0.26 | -- | -- | PEAK |



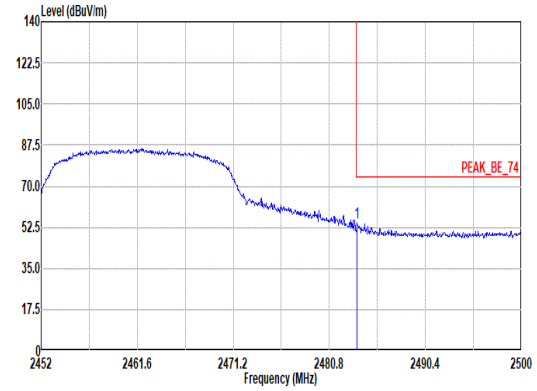

Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 4874.00 | 38.59 | 74.00 | -35.41 | 56.57 | 32.60 | 8.21 | 59.19 | 0.40 | -- | -- | PEAK |
| 2 | 7311.00 | 43.50 | 74.00 | -30.50 | 56.20 | 36.86 | 10.01 | 59.83 | 0.26 | -- | -- | PEAK |

| Mode | 8 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11n HT20_CH6_2437MHz | |
| ANT | 1+2 | |
| Pol. | Horizontal | Vertical |
| 14.47G ~14.5G Avg |  <br>Site : 03CH15-HY<br>Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL |  <br>Site : 03CH15-HY<br>Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL |
| 17.7G ~18G Avg |  <br>Site : 03CH15-HY<br>Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL |  <br>Site : 03CH15-HY<br>Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL |

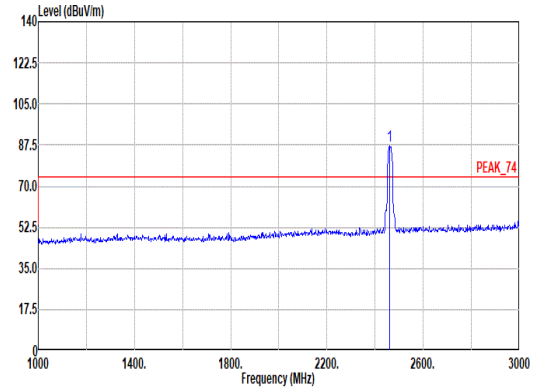
| Mode | 9 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11n HT20_CH11_2462MHz | |
| ANT | 1+2 | |
| Pol. | Horizontal | Fundamental |

**Peak**




Site : 03CH15-HY
Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

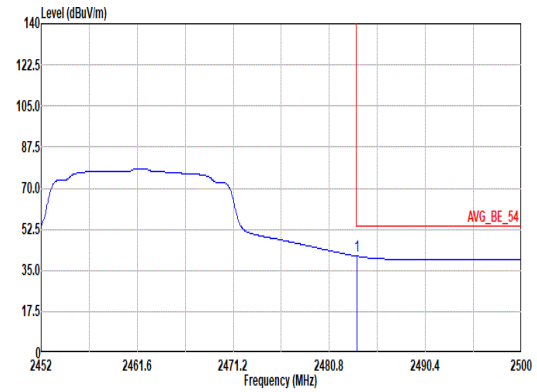
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2483.58 | 54.55 | 74.00 | -19.45 | 47.52 | 27.80 | 5.77 | 36.46 | 9.92 | 100 | 217 | PEAK |




Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

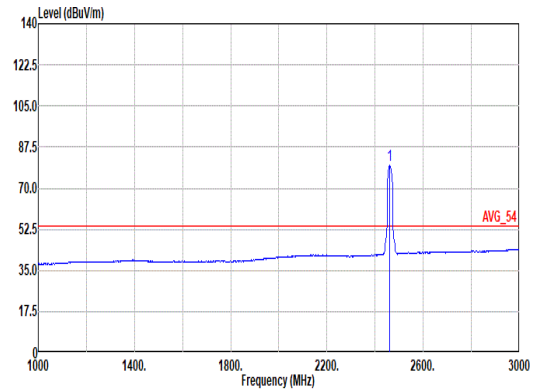
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2462.00 | 86.93 | ------ | ------ | 80.07 | 27.67 | 5.74 | 36.47 | 9.92 | 100 | 217 | PEAK |

**Avg**




Site : 03CH15-HY
Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2483.54 | 41.08 | 54.00 | -12.92 | 34.05 | 27.80 | 5.77 | 36.46 | 9.92 | 100 | 217 | AVERAGE |

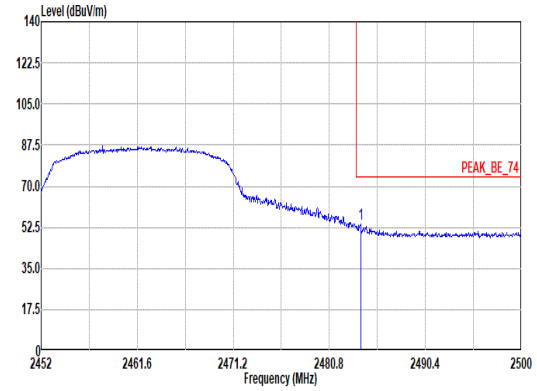



Site : 03CH15-HY
Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2462.00 | 79.97 | ------ | ------ | 73.11 | 27.67 | 5.74 | 36.47 | 9.92 | 100 | 217 | AVERAGE |

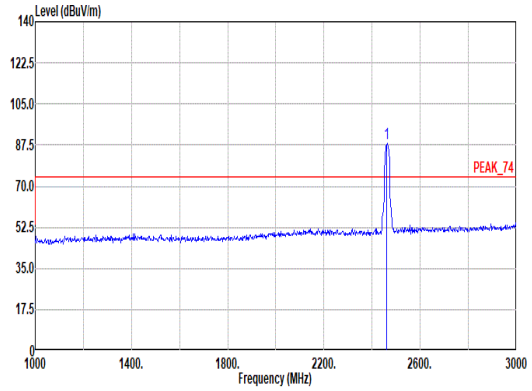
| Mode | 9 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11n HT20_CH11_2462MHz | |
| ANT | 1+2 | |
| Pol. | Vertical | Fundamental |

**Peak**




Site : 03CH15-HY
Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

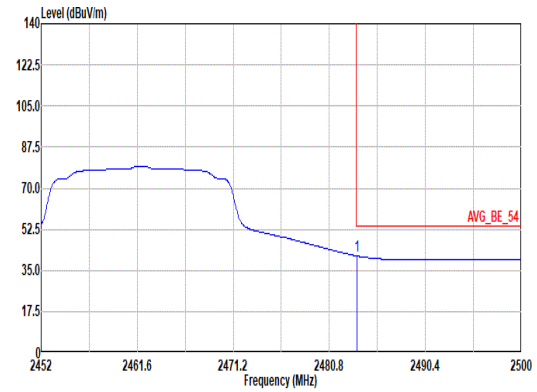
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2483.92 | 53.66 | 74.00 | -20.34 | 46.63 | 27.80 | 5.77 | 36.46 | 9.92 | 366 | 143 | PEAK |




Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

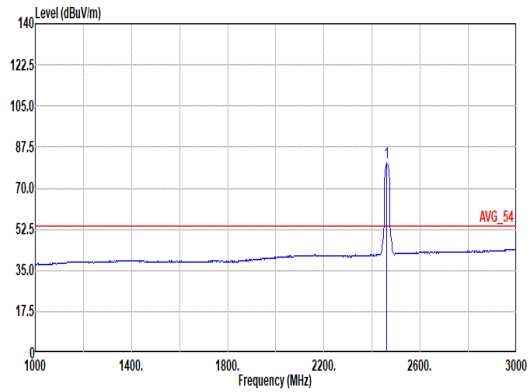
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2462.00 | 87.97 | ------ | ------ | 81.10 | 27.68 | 5.74 | 36.47 | 9.92 | 366 | 143 | PEAK |

**Avg**



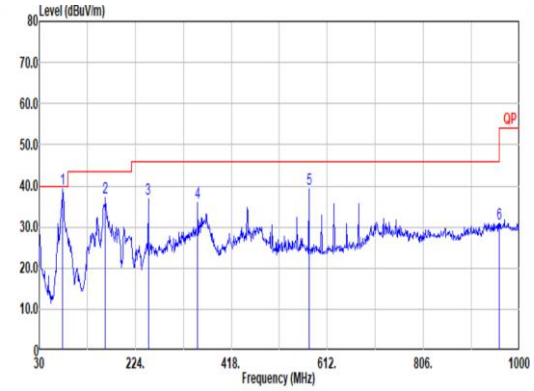
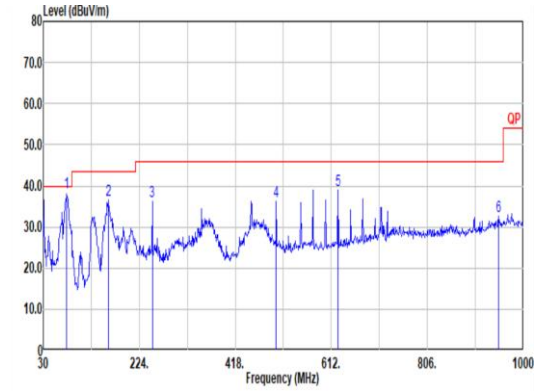

Site : 03CH15-HY
Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2483.54 | 41.17 | 54.00 | -12.83 | 34.14 | 27.80 | 5.77 | 36.46 | 9.92 | 366 | 143 | AVERAGE |




Site : 03CH15-HY
Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL
: RBW:1000.000kHz VBW:0.010kHz SWT:Auto

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 2462.00 | 81.08 | ------ | ------ | 74.22 | 27.67 | 5.74 | 36.47 | 9.92 | 366 | 143 | AVERAGE |

| Mode | 10 | |
|---|---|---|
| | LF | |
| | 2400-2483.5_802.11g_CH11_2462MHz | |
| ANT | 1+2 | |
| Pol. | Horizontal | Vertical |
| QP/ Peak |  |  |



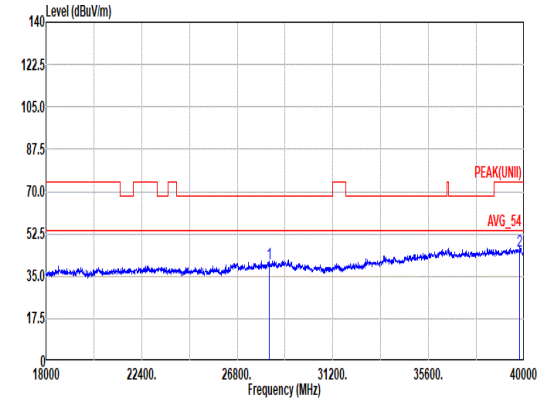
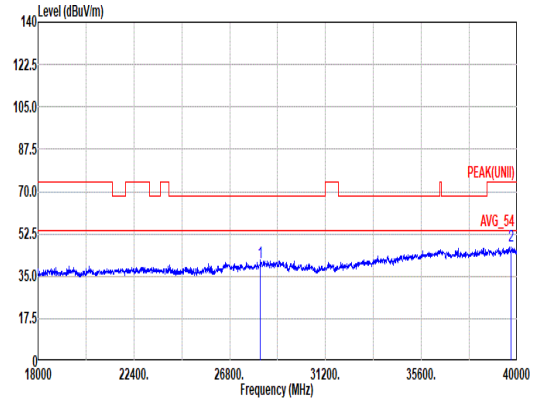
Site : 03CH15-HY
Condition: QP 3m CBL 6111D & 00800N1D01N-06_41912&05 HORIZONTAL

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 77.53 | 39.29 | 40.00 | -0.71 | 57.25 | 13.25 | 1.08 | 32.42 | 0.13 | 200 | 235 | QP |
| 2 | 163.86 | 37.04 | 43.50 | -6.46 | 51.58 | 16.16 | 1.53 | 32.40 | 0.17 | -- | -- | Peak |
| 3 | 250.19 | 36.93 | 46.00 | -9.07 | 48.92 | 18.28 | 1.87 | 32.41 | 0.27 | -- | -- | Peak |
| 4 | 350.10 | 35.90 | 46.00 | -10.10 | 45.71 | 20.24 | 2.20 | 32.39 | 0.14 | -- | -- | Peak |
| 5 | 575.14 | 39.32 | 46.00 | -6.68 | 43.37 | 25.34 | 2.79 | 32.43 | 0.25 | -- | -- | Peak |
| 6 | 959.26 | 30.92 | 46.00 | -15.08 | 28.09 | 29.91 | 3.57 | 30.94 | 0.29 | -- | -- | Peak |

Site : 03CH15-HY
Condition: QP 3m CBL 6111D & 00800N1D01N-06_41912&05 VERTICAL

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 77.53 | 38.45 | 40.00 | -1.55 | 56.41 | 13.25 | 1.08 | 32.42 | 0.13 | 203 | 182 | QP |
| 2 | 160.95 | 36.61 | 43.50 | -6.89 | 51.05 | 16.27 | 1.51 | 32.40 | 0.18 | -- | -- | Peak |
| 3 | 250.19 | 36.15 | 46.00 | -9.85 | 48.14 | 18.28 | 1.87 | 32.41 | 0.27 | -- | -- | Peak |
| 4 | 500.45 | 36.18 | 46.00 | -9.82 | 42.09 | 23.57 | 2.64 | 32.38 | 0.26 | -- | -- | Peak |
| 5 | 625.58 | 39.03 | 46.00 | -6.97 | 42.61 | 25.76 | 2.90 | 32.41 | 0.17 | -- | -- | Peak |
| 6 | 950.53 | 32.73 | 46.00 | -13.27 | 30.12 | 29.77 | 3.55 | 31.01 | 0.30 | -- | -- | Peak |

| Mode | 11 |
|---|---|
| | SHF |
| | 2400-2483.5_802.11g_CH11_2462MHz |
| ANT | 1+2 |

| Pol. | Horizontal | Vertical |
|---|---|---|
| Peak |  |  |



Site : 03CH15-HY
Condition: PEAK(UNII) 1m BBHA9170_1223_240624 HORIZONTAL
Mode : 42
Setting :
Plane :

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 28283.21 | 40.09 | 68.20 | -28.11 | 56.27 | 39.70 | 7.54 | 53.88 | -9.54 | -- | -- | PEAK |
| 2 | 39802.20 | 45.46 | 74.00 | -28.54 | 57.11 | 44.31 | 9.30 | 55.72 | -9.54 | -- | -- | PEAK |



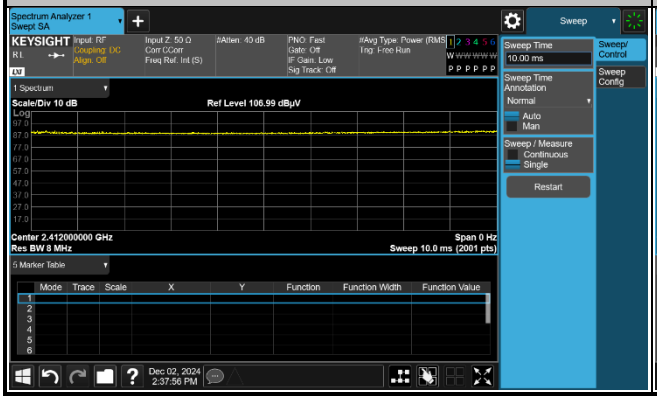
Site : 03CH15-HY
Condition: PEAK(UNII) 1m BBHA9170_1223_240624 VERTICAL
Mode : 42
Setting :
Plane :

| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | |
| 1 | 28204.14 | 40.71 | 68.20 | -27.49 | 56.65 | 39.88 | 7.52 | 53.80 | -9.54 | -- | -- | PEAK |
| 2 | 39713.98 | 47.40 | 74.00 | -26.60 | 58.91 | 44.61 | 9.28 | 55.86 | -9.54 | -- | -- | PEAK |

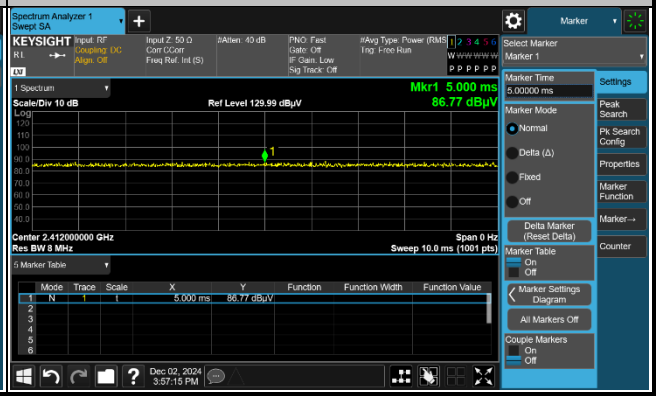
# Appendix C. Duty Cycle Plots

| Band | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting |
|---|---|---|---|---|
| 802.11b | 100.00 | - | - | 10Hz |
| 802.11g | 100.00 | - | - | 10Hz |
| 2.4GHz 802.11n HT20 | 99.60 | - | - | 10Hz |

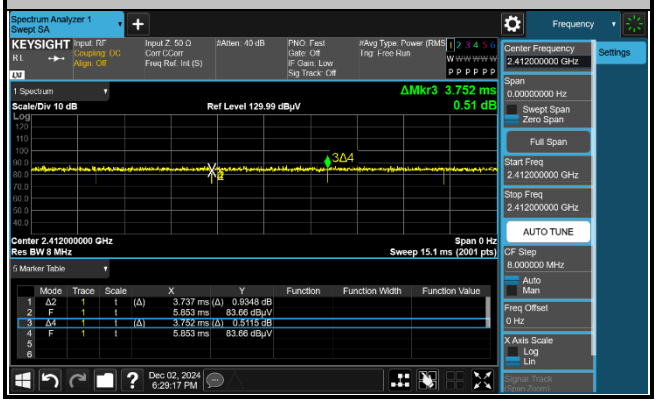
**802.11b**




**802.11g**



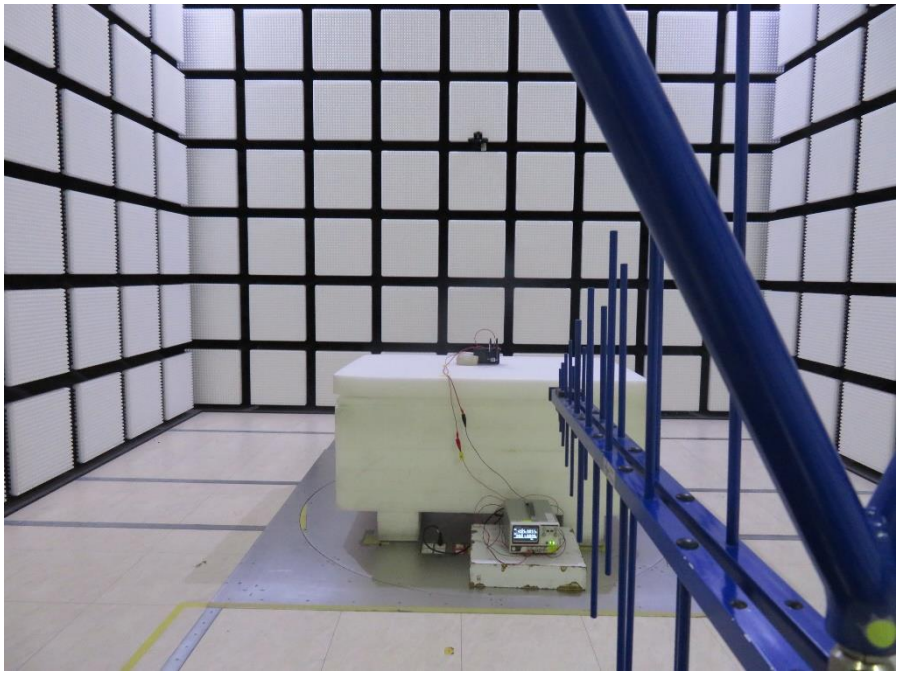

**2.4GHz 802.11n HT20**



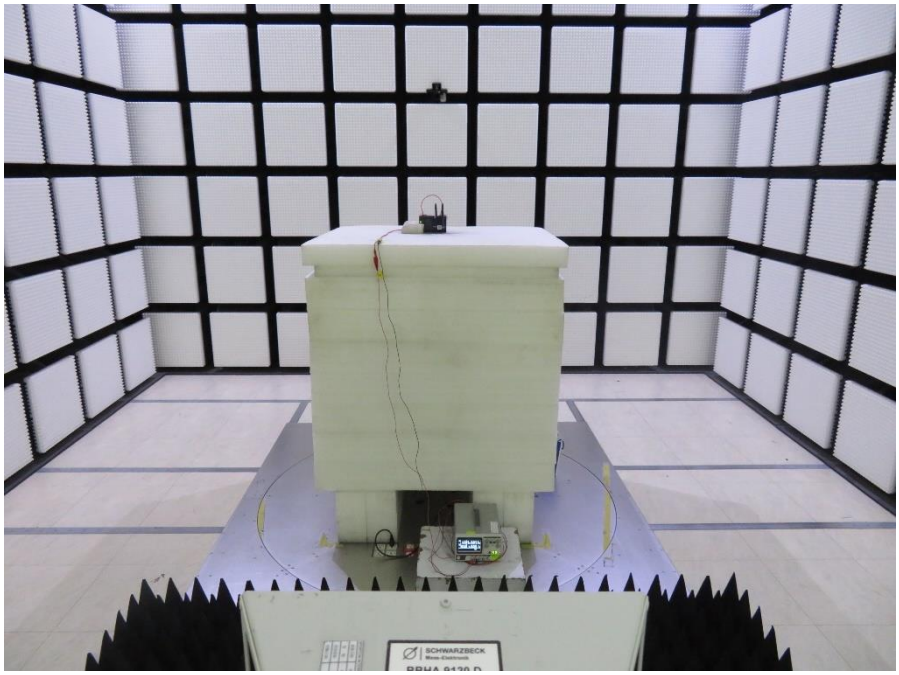
# Appendix D. Setup Photographs

## <Radiated Emission>

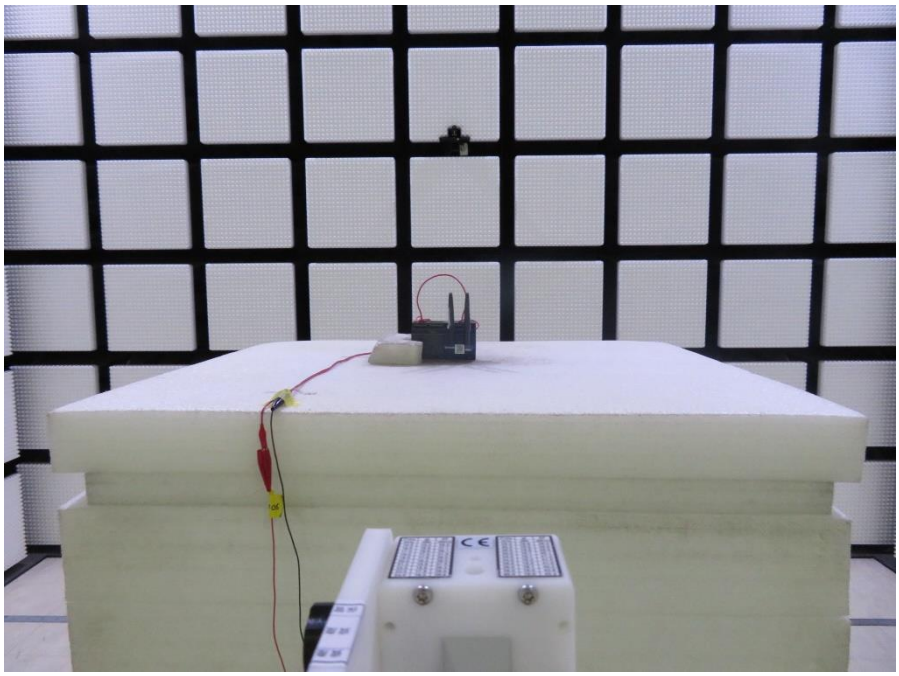
**LF**



**HF**



**SHF**



———THE END———