

## FCC Test Report

**Product Name** : AP  
**Model No** : MCR-AP19000  
**Applicant** : MERCURY Corporation  
**Address** : 90, Gajaeul-ro, Seo-Gu, Incheon, 22830, Republic of Korea  
**FCC Rule Part(s)** : 47 CFR Part 15, Subpart C(15.247); ANSI C63.10-2020  
KDB 558074 D01 15.247 Meas Guidance v05r02  
**Date Received** : 2025/10/22  
**Issue Date** : 2026/01/19  
**Report Type** : Original Report

Tested by: Gavy Kim



Approved by: Jeong Chan Ho

### BWS TECH INC.

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Note: We, BWS TECH Inc. 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 report apply exclusively to the tested model/sample. Without written approval of BWS TECH Inc. the test report shall not be reproduced except in full. The information marked \* is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. This report may contain data that are not covered by the accreditation scope and shall be marked with ▲. Each test item follows the test standard(s) without deviation.

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## DOCUMENT REVISION HISTORY

| Revision Number | Report Number      | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| 1.0             | 2509T61338E-RF-00A | Original Report         | 2026/01/19       |

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                                |                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------|
| Product Name                   | AP                                                                                                          |
| Tested Model                   | MCR-AP19000                                                                                                 |
| Frequency Range                | BLE: 2402-2480MHz<br>2.4G Wi-Fi: 2412-2462MHz                                                               |
| Maximum Conducted Output Power | BLE (Peak): 0.72dBm<br>2.4G Wi-Fi (Average): 22.32dBm                                                       |
| Modulation Technique           | BLE: GFSK<br>2.4G Wi-Fi: DSSS-DBPSK, DQPSK, CCK, OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM    |
| Rated Input Voltage            | 12Vdc from Adapter                                                                                          |
| Sample serial number           | 3DAM-2 for Conducted and Radiated Emissions Test<br>3DAM-1 for RF Conducted Test (Assigned by BWS TECH Inc) |
| Sample/EUT Status              | Good condition                                                                                              |
| Adapter Information            | Model: KA4801A-1204000US<br>Input: 100-240Vac 50/60Hz 1.2A Max<br>Output: 12Vdc 4000mA                      |

### Objective

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at BWS TECH Inc. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

### Test Laboratory

Firm Name: BWS Tech Inc.

FCC MRA Designation No.: KR0017

Address: 23 Gokhyeon-ro 480beon-gil, Mohyeon-eup, Cheoin-gu Yongin-si, Gyeonggi-do, 17031, Rep. of Korea

## Measurement Uncertainty

| Parameter                          |                | Uncertainty                            |
|------------------------------------|----------------|----------------------------------------|
| Occupied Channel Bandwidth         |                | 18.44kHz(k=2, 95% level of confidence) |
| RF output power, conducted         |                | 0.90dB(k=2, 95% level of confidence)   |
| Power Spectral Density             |                | 0.90dB(k=2, 95% level of confidence)   |
| AC Power Lines Conducted Emissions | 150 kHz ~30MHz | 1.99dB(k=2, 95% level of confidence)   |
| Radiated Emissions                 | 9kHz - 30MHz   | 4.29dB(k=2, 95% level of confidence)   |
|                                    | 30MHz~1000MHz  | 4.26dB(k=2, 95% level of confidence)   |
|                                    | 1GHz - 18GHz   | 4.59dB(k=2, 95% level of confidence)   |
|                                    | 18GHz - 40GHz  | 4.85dB(k=2, 95% level of confidence)   |
| Temperature                        |                | ±2°C                                   |
| Humidity                           |                | ±5%                                    |
| Supply voltages                    |                | ±0.4%                                  |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

For BLE mode, 40 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 0       | 2402            | 20      | 2442            |
| 1       | 2404            | 21      | 2444            |
| 2       | 2406            | 22      | 2446            |
| 3       | 2408            | 23      | 2448            |
| 4       | 2410            | 24      | 2450            |
| 5       | 2412            | 25      | 2452            |
| 6       | 2414            | 26      | 2454            |
| 7       | 2416            | 27      | 2456            |
| 8       | 2418            | 28      | 2458            |
| 9       | 2420            | 29      | 2460            |
| 10      | 2422            | 30      | 2462            |
| 11      | 2424            | 31      | 2464            |
| 12      | 2426            | 32      | 2466            |
| 13      | 2428            | 33      | 2468            |
| 14      | 2430            | 34      | 2470            |
| 15      | 2432            | 35      | 2472            |
| 16      | 2434            | 36      | 2474            |
| 17      | 2436            | 37      | 2476            |
| 18      | 2438            | 38      | 2478            |
| 19      | 2440            | 39      | 2480            |

EUT was tested with Channel 0, 19 and 39.

For 2.4G Wi-Fi mode, total 11 channels are provided to testing:

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

802.11b, 802.11g, 802.11n ht20, 802.11ax he20 and 802.11be eht20 mode was tested with Channel 1, 6 and 11.

802.11n ht40, 802.11ax he40 and 802.11be eht40 mode was tested with Channel 3, 6 and 9.

## Equipment Modifications

No modification was made to the EUT tested.

## EUT Exercise Software

EUT was tested with software of NcpCommander.exe\*, which was provided by the manufacturer.

The device was tested with the worst case was performed as below:

BLE:

| Mode | Data rate | Power Level Setting* |                |              |
|------|-----------|----------------------|----------------|--------------|
|      |           | Low Channel          | Middle Channel | High Channel |
| BLE  | 1Mbps     | 0                    | 0              | 0            |
| BLE  | 2Mbps     | 0                    | 0              | 0            |

Note: The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the power and PSD across all data rates bandwidths, and modulations.

2.4G WIFI:

| Test Modes     | Test Channel | Test Frequency (MHz) | Tones/ RU Index | Data rate | Power Level Setting* |         |         |         |
|----------------|--------------|----------------------|-----------------|-----------|----------------------|---------|---------|---------|
|                |              |                      |                 |           | Chain 0              | Chain 1 | Chain 2 | Chain 3 |
| 802.11b        | Lowest       | 2412                 | -               | 1Mbps     | 24.0                 | 24.0    | 24.0    | 24.0    |
|                | Middle       | 2437                 | -               | 1Mbps     | 24.0                 | 24.0    | 24.0    | 24.0    |
|                | Highest      | 2462                 | -               | 1Mbps     | 24.0                 | 24.0    | 24.0    | 24.0    |
| 802.11g        | Lowest       | 2412                 | -               | 6Mbps     | 20.5                 | 20.5    | 20.5    | 20.5    |
|                | Middle       | 2437                 | -               | 6Mbps     | 20.5                 | 20.5    | 20.5    | 20.5    |
|                | Highest      | 2462                 | -               | 6Mbps     | 20.5                 | 20.5    | 20.5    | 20.5    |
| 802.11n ht20   | Lowest       | 2412                 | -               | MCS0      | 20.5                 | 20.5    | 20.5    | 20.5    |
|                | Middle       | 2437                 | -               | MCS0      | 20.5                 | 20.5    | 20.5    | 20.5    |
|                | Highest      | 2462                 | -               | MCS0      | 20.5                 | 20.5    | 20.5    | 20.5    |
| 802.11n ht40   | Lowest       | 2422                 | -               | MCS0      | 20.5                 | 20.5    | 20.5    | 20.5    |
|                | Middle       | 2437                 | -               | MCS0      | 20.5                 | 20.5    | 20.5    | 20.5    |
|                | Highest      | 2452                 | -               | MCS0      | 20.5                 | 20.5    | 20.5    | 20.5    |
| 802.11be eht20 | Lowest       | 2412                 | 26/0            | MCS0      | 14.0                 | 14.0    | 14.0    | 14.0    |
|                |              |                      | 52/37           | MCS0      | 16.0                 | 16.0    | 16.0    | 16.0    |
|                |              |                      | 106/53          | MCS0      | 17.0                 | 17.0    | 17.0    | 17.0    |
|                |              |                      | 242/61          | MCS0      | 19.5                 | 19.5    | 19.5    | 19.5    |

|                   |         |      |             |      |      |      |      |      |
|-------------------|---------|------|-------------|------|------|------|------|------|
| 802.11be<br>eht20 | Lowest  | 2412 | 26&52-MRU1  | MCS0 | 13.0 | 13.0 | 13.0 | 13.0 |
|                   |         |      | 26&106-MRU1 | MCS0 | 13.5 | 13.5 | 13.5 | 13.5 |
|                   | Middle  | 2437 | 26/0        | MCS0 | 14.0 | 14.0 | 14.0 | 14.0 |
|                   |         |      | 52/37       | MCS0 | 16.0 | 16.0 | 16.0 | 16.0 |
|                   |         |      | 106/53      | MCS0 | 17.0 | 17.0 | 17.0 | 17.0 |
|                   |         |      | 242/61      | MCS0 | 19.5 | 19.5 | 19.5 | 19.5 |
|                   |         |      | 26&52-MRU1  | MCS0 | 13.0 | 13.0 | 13.0 | 13.0 |
|                   |         |      | 26&106-MRU1 | MCS0 | 13.5 | 13.5 | 13.5 | 13.5 |
|                   | Highest | 2462 | 26/8        | MCS0 | 14.0 | 14.0 | 14.0 | 14.0 |
|                   |         |      | 52/40       | MCS0 | 16.0 | 16.0 | 16.0 | 16.0 |
|                   |         |      | 106/54      | MCS0 | 17.0 | 17.0 | 17.0 | 17.0 |
|                   |         |      | 242/61      | MCS0 | 19.5 | 19.5 | 19.5 | 19.5 |
|                   |         |      | 26&52-MRU3  | MCS0 | 13.0 | 13.0 | 13.0 | 13.0 |
|                   |         |      | 26&106-MRU2 | MCS0 | 13.5 | 13.5 | 13.5 | 13.5 |
| 802.11be<br>eht40 | Lowest  | 2422 | 26/0        | MCS0 | 16.0 | 16.0 | 16.0 | 16.0 |
|                   |         |      | 52/37       | MCS0 | 17.5 | 17.5 | 17.5 | 17.5 |
|                   |         |      | 106/53      | MCS0 | 18.0 | 18.0 | 18.0 | 18.0 |
|                   |         |      | 242/61      | MCS0 | 19.0 | 19.0 | 19.0 | 19.0 |
|                   |         |      | 484/65      | MCS0 | 19.5 | 19.5 | 19.5 | 19.5 |
|                   |         |      | 26&52-MRU1  | MCS0 | 15.0 | 15.0 | 15.0 | 15.0 |
|                   |         |      | 26&106-MRU1 | MCS0 | 15.5 | 15.5 | 15.5 | 15.5 |
|                   | Middle  | 2437 | 26/0        | MCS0 | 16.0 | 16.0 | 16.0 | 16.0 |
|                   |         |      | 52/37       | MCS0 | 17.5 | 17.5 | 17.5 | 17.5 |
|                   |         |      | 106/53      | MCS0 | 18.0 | 18.0 | 18.0 | 18.0 |
|                   |         |      | 242/61      | MCS0 | 19.0 | 19.0 | 19.0 | 19.0 |
|                   |         |      | 484/65      | MCS0 | 19.5 | 19.5 | 19.5 | 19.5 |
|                   |         |      | 26&52-MRU1  | MCS0 | 15.0 | 15.0 | 15.0 | 15.0 |
|                   |         |      | 26&106-MRU1 | MCS0 | 15.5 | 15.5 | 15.5 | 15.5 |
|                   | Highest | 2452 | 26/17       | MCS0 | 16.0 | 16.0 | 16.0 | 16.0 |
|                   |         |      | 52/44       | MCS0 | 17.5 | 17.5 | 17.5 | 17.5 |
|                   |         |      | 106/56      | MCS0 | 18.0 | 18.0 | 18.0 | 18.0 |
|                   |         |      | 242/62      | MCS0 | 19.0 | 19.0 | 19.0 | 19.0 |
|                   |         |      | 484/65      | MCS0 | 19.5 | 19.5 | 19.5 | 19.5 |
|                   |         |      | 26&52-MRU6  | MCS0 | 15.0 | 15.0 | 15.0 | 15.0 |
|                   |         |      | 26&106-MRU4 | MCS0 | 15.5 | 15.5 | 15.5 | 15.5 |

Note:

1. The power level was provided by applicant.
2. The system support 802.11b/g/n ht20/n ht40/ax he20/ax he40/be eht20/be eht40, the ax he20/ax he40 were reduced since the identical parameters with 802.11be eht20/be eht40.
- 2.The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.
3. The device supports SISO in all modes, and MIMO in 802.11g/n/ax/be modes, per pretest, MIMO mode was the worst mode and reported for 802.11g/n/ax/be modes.
4. The full and partial RU was used to test power and PSD, other test items used full RU to test.
5. For AC line conducted emissions, the maximum peak output power mode and channel was tested.
6. For Spurious Emissions 9kHz~1GHz and 18~25GHz, the maximum peak output power mode and channel was tested.
7. The system only supports 4T4R Non-Beamforming (CDD) modes under the 802.11n/ax/be modes.

### Support Equipment List and Details

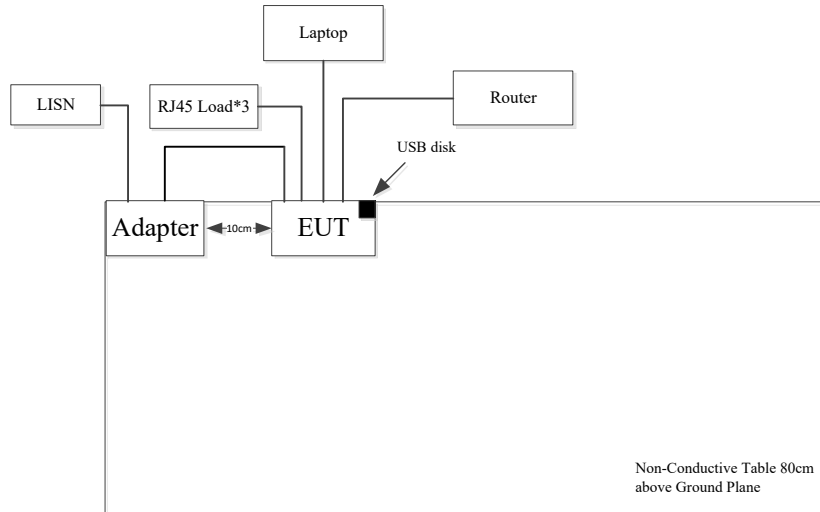
| Manufacturer         | Description | Model               | Serial Number   |
|----------------------|-------------|---------------------|-----------------|
| Unknown              | RJ45 Load*3 | Unknown             | Unknown         |
| ASUSTek Computer Inc | Router      | GT-BE98 Pro         | S21G6M200567X35 |
| SanDisk              | USB disk    | SDCZ50-032G         | BM2303581574    |
| Lenovo               | Laptop      | ThinkBook 16 G7 ARP | PW0D678F        |

### External I/O Cable

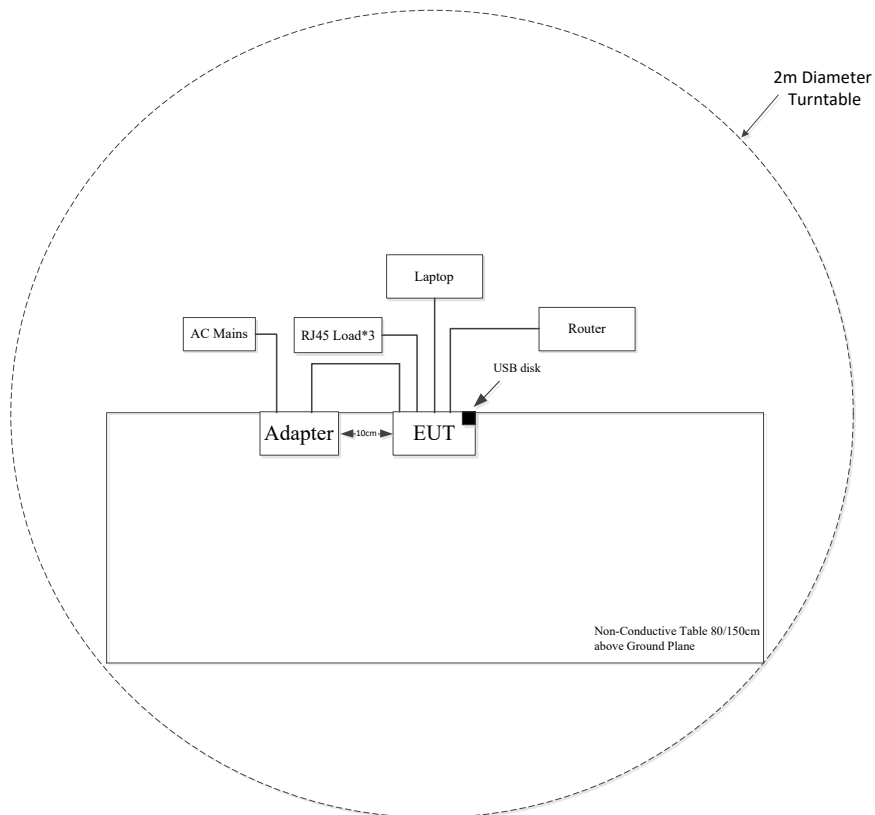
| Cable Description | Shielding Cable | Ferrite Core | Length (m) | From Port | To        |
|-------------------|-----------------|--------------|------------|-----------|-----------|
| DC Cable          | No              | No           | 1.5        | Adapter   | EUT       |
| RJ45 Cable        | No              | No           | 2          | EUT       | Laptop    |
| RJ45 Cable*3      | No              | No           | 2          | EUT       | RJ45 Load |
| RJ45 Cable        | No              | No           | 2          | EUT       | Router    |

## Block Diagram of Test Setup

For Conducted Emissions:



For Radiated Emissions:



## TEST EQUIPMENT LIST

| Manufacturer                    | Description              | Model                   | Serial Number | Calibration Date | Calibration Due Date |
|---------------------------------|--------------------------|-------------------------|---------------|------------------|----------------------|
| <b>Conducted Emissions Test</b> |                          |                         |               |                  |                      |
| ROHDE & SCHWARZ                 | Test Software            | EMC32                   | V10.20.01     | N/A              | N/A                  |
| ROHDE & SCHWARZ                 | LISN                     | ENV216                  | 100127        | 2025/01/16       | 2026/01/16           |
| ROHDE & SCHWARZ                 | EMI TEST RECEIVER        | ESCI 3                  | 100989        | 2025/07/17       | 2026/07/17           |
| EMCIS                           | TRANSIENT LIMITER        | TL-B0930A               | 22001         | 2025/01/16       | 2026/01/16           |
| <b>Radiated Emissions Test</b>  |                          |                         |               |                  |                      |
| AUDIX                           | Test Software            | E3                      | 6.11_20190130 | N/A              | N/A                  |
| SONOMA INSTRUMENT               | AMPLIFITER               | 310N                    | 186912        | 2025/09/15       | 2026/09/15           |
| SCHWARZBECK                     | LOOP ANTENNA             | FMZB1519B               | 00025         | 2024/01/17       | 2026/01/17           |
| SCHWARZBECK                     | TRILOG BROADBAND ANTENNA | VULB9163                | 01064         | 2024/01/16       | 2026/01/16           |
| ROHDE & SCHWARZ                 | EMI TEST RECEIVER        | ESR3                    | 103192        | 2025/11/10       | 2026/11/10           |
| UNKNOWN                         | COAXIAL CABLE            | UNKNOWN                 | CABLE 28      | 2025/08/20       | 2026/02/20           |
| UNKNOWN                         | COAXIAL CABLE            | 2P92MST-9A40-2P92MST-5M | TPC2307110037 | 2025/08/20       | 2026/02/20           |
| UNKNOWN                         | COAXIAL CABLE            | SUCOFLEX 104            | 50252774      | 2025/08/20       | 2026/02/20           |
| XIN HANG                        | COAXIAL CABLE            | XH750A-N-J-SMA-J-6M     | CABLE 55      | 2025/11/25       | 2026/05/20           |
| XIN HANG                        | COAXIAL CABLE            | XH360A-2.92/J-2.92/J-6M | CABLE 56      | 2025/11/25       | 2026/05/20           |
| GLOBAL ENGINEERING SERVICE      | PREAMPLIFIER             | 1313-A0118G             | 5091021       | 2025/10/13       | 2026/10/13           |
| GLOBAL ENGINEERING SERVICE      | PREAMPLIFIER             | 1313-A1840              | 5061901       | 2025/06/30       | 2026/06/30           |
| SCHWARZBECK                     | HORN ANTENNA             | BBHA9120D               | 935           | 2025/11/24       | 2026/11/24           |
| COM-POWER                       | HORN ANTENNA             | AH-1840                 | 10100001      | 2025/07/02       | 2026/07/02           |
| MICRO-TRONICS                   | BAND REJECT FILTER       | BRM50701                | G236          | 2025/05/21       | 2026/05/21           |
| MICRO-TRONICS                   | BAND REJECT FILTER       | BRM50716                | G253          | 2025/05/21       | 2026/05/21           |
| ROHDE&SCHWARZ                   | SPECTRUM ANALYZER        | FSVA40                  | 101594        | 2025/07/08       | 2026/07/08           |

| Manufacturer             | Description                 | Model               | Serial Number | Calibration Date | Calibration Due Date |
|--------------------------|-----------------------------|---------------------|---------------|------------------|----------------------|
| <b>RF Conducted Test</b> |                             |                     |               |                  |                      |
| JD                       | Test Software               | JD Auto Test System | V1.0          | N/A              | N/A                  |
| SRT                      | ATTENUATOR                  | F01-B1810-01        | 17060801      | 2025/01/17       | 2026/01/17           |
| SRT                      | ATTENUATOR                  | F01-B1810-01        | 17060801      | 2025/12/26       | 2026/12/26           |
| ROHDE& SCHWARZ           | SPECTRUM ANALYZER           | FSVA40              | 101594        | 2025/07/08       | 2026/07/08           |
| SRT                      | COAXIAL CABLE               | J11-GPR44-02        | W2073790007   | 2025/08/20       | 2026/02/20           |
| ANRISTU                  | MICROWAVE PEAK POWER SENSOR | MA24408A            | 12912         | 2025/11/24       | 2026/11/24           |

## SUMMARY OF TEST RESULTS

| Test Rules                     | Description of Test                | Result    |
|--------------------------------|------------------------------------|-----------|
| §15.247 (i), §1.1310 & §2.1091 | Maximum Permissible Exposure (MPE) | Compliant |
| §15.203                        | Antenna Requirement                | Compliant |
| §15.207 (a)                    | AC Line Conducted Emissions        | Compliant |
| §15.205, §15.209, §15.247(d)   | Spurious Emissions                 | Compliant |
| §15.247 (a)(2)                 | 6 dB Emission Bandwidth            | Compliant |
| §15.247(b)(3)                  | Maximum Conducted Output Power     | Compliant |
| §15.247(d)                     | Conducted Spurious Emission        | Compliant |
| §15.247(e)                     | Power Spectral Density             | Compliant |

## FCC§15.247 (i), §1.1310 & §2.1091 - Maximum Permissible Exposure (MPE)

### Applicable Standard

According to subpart §1.1310,15.247(i) and 15.407(f) systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

**TABLE 1 TO § 1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)**

| Frequency range (MHz)                                    | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (i) LIMITS FOR OCCUPATIONAL/CONTROLLED EXPOSURE          |                               |                               |                                     |                          |
| 0.3-3.0                                                  | 614                           | 1.63                          | *(100)                              | ≤6                       |
| 3.0-30                                                   | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | <6                       |
| 30-300                                                   | 61.4                          | 0.163                         | 1.0                                 | <6                       |
| 300-1,500                                                |                               |                               | f/300                               | <6                       |
| 1,500-100,000                                            |                               |                               | 5                                   | <6                       |
| (ii) LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE |                               |                               |                                     |                          |
| 0.3-1.34                                                 | 614                           | 1.63                          | *(100)                              | <30                      |
| 1.34-30                                                  | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | <30                      |
| 30-300                                                   | 27.5                          | 0.073                         | 0.2                                 | <30                      |
| 300-1,500                                                |                               |                               | f/1500                              | <30                      |
| 1,500-100,000                                            |                               |                               | 1.0                                 | <30                      |

*f* = frequency in MHz. \* = Plane-wave equivalent power density.

According to §1.1310 and §2.1091 RF exposure is calculated.

### Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$  = power density (in appropriate units, e.g. mW/cm<sup>2</sup>);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

### Calculated Data:

| Operation Modes | Frequency (MHz) | Antenna Gain* |           | Conducted output power including Tune-up Tolerance* |        | Evaluation Distance (cm) | Power Density (mW/cm <sup>2</sup> ) | MPE Limit (mW/cm <sup>2</sup> ) |
|-----------------|-----------------|---------------|-----------|-----------------------------------------------------|--------|--------------------------|-------------------------------------|---------------------------------|
|                 |                 | (dBi)         | (numeric) | (dBm)                                               | (mW)   |                          |                                     |                                 |
| BLE             | 2402-2480       | 5.08          | 3.22      | 1.0                                                 | 1.26   | 20.00                    | 0.001                               | 1.0                             |
| 2.4G WIFI       | 2412-2462       | 4.92          | 3.10      | 22.5                                                | 177.83 | 20.00                    | 0.110                               | 1.0                             |
| 5G WIFI         | 5150-5250       | 4.98          | 3.15      | 21.0                                                | 125.89 | 20.00                    | 0.079                               | 1.0                             |
|                 | 5250-5350       | 4.98          | 3.15      | 20.5                                                | 112.20 | 20.00                    | 0.070                               | 1.0                             |
|                 | 5470-5725       | 4.98          | 3.15      | 18.5                                                | 70.79  | 20.00                    | 0.044                               | 1.0                             |
|                 | 5725-5850       | 4.98          | 3.15      | 20.5                                                | 112.20 | 20.00                    | 0.070                               | 1.0                             |
| 6G WIFI         | 5925-6425       | 4.98          | 3.15      | 20.5                                                | 112.20 | 20.00                    | 0.070                               | 1.0                             |
|                 | 6425-6525       | 4.98          | 3.15      | 20.0                                                | 100.00 | 20.00                    | 0.063                               | 1.0                             |
|                 | 6525-6875       | 4.98          | 3.15      | 20.5                                                | 112.20 | 20.00                    | 0.070                               | 1.0                             |
|                 | 6875-7125       | 4.98          | 3.15      | 20.5                                                | 112.20 | 20.00                    | 0.070                               | 1.0                             |

Note:

The Antenna Gain and Conducted output power including Tune-up Tolerance provided by manufacturer.

BLE, 2.4G WIFI, 5G WIFI, 6G WIFI can transmit simultaneously:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

$$= S_{BLE} / S_{limit-BLE} + S_{2.4G\ Wifi} / S_{limit-2.4G\ Wifi} + S_{5G\ Wifi} / S_{limit-5G\ Wifi} + S_{6G\ Wifi} / S_{6G\ Wifi}$$

$$= 0.001/1.0 + 0.11/1.0 + 0.079/1.0 + 0.07/1.0$$

$$= 0.26$$

$$< 1$$

**Result:** The device meet FCC MPE at 20 cm distance

## FCC §15.203 - ANTENNA REQUIREMENT

### Applicable Standard

According to FCC § 15.203, 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.

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.

### Antenna Connector Construction

The EUT has internal antenna arrangement, which was permanently attached, the antenna gain was shown in the below table, fulfill the requirement of this section. Please refer to the EUT photos.

| Antenna           | Antenna Type | Input Impedance (Ohm) | Frequency Range (MHz) | Antenna Gain (dBi) |
|-------------------|--------------|-----------------------|-----------------------|--------------------|
| BLE Antenna       | PCB          | 50                    | 2402-2480             | 5.08               |
| 2.4G WIFI Chain 0 | PCB          | 50                    | 2400-2483.5           | 2.24               |
| 2.4G WIFI Chain 1 | PCB          | 50                    | 2400-2483.5           | 3.89               |
| 2.4G WIFI Chain 2 | PCB          | 50                    | 2400-2483.5           | 4.92               |
| 2.4G WIFI Chain 3 | PCB          | 50                    | 2400-2483.5           | 3.66               |

Note: For Non-Beamforming mode, the system supports maximum 4T4R CDD for 802.11g/n/ax/be modes. Per KDB 662911 D01 Multiple Transmitter Output v02r01:

For power measurements:

CDD Mode:

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$

directional gain = 4.92 dBi + 0 dB = 4.92 dBi

For power spectral density (PSD) measurements:

Array Gain =  $10 \log(N_{ANT}/N_{SS})$  dB.

directional gain = 4.92 dBi + 6.02 dB = 10.94 dBi

**Result: Compliant**

## FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC§15.207(a)

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| Frequency of emission (MHz) | Conducted limit (dB $\mu$ V) |           |
|-----------------------------|------------------------------|-----------|
|                             | 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.*

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

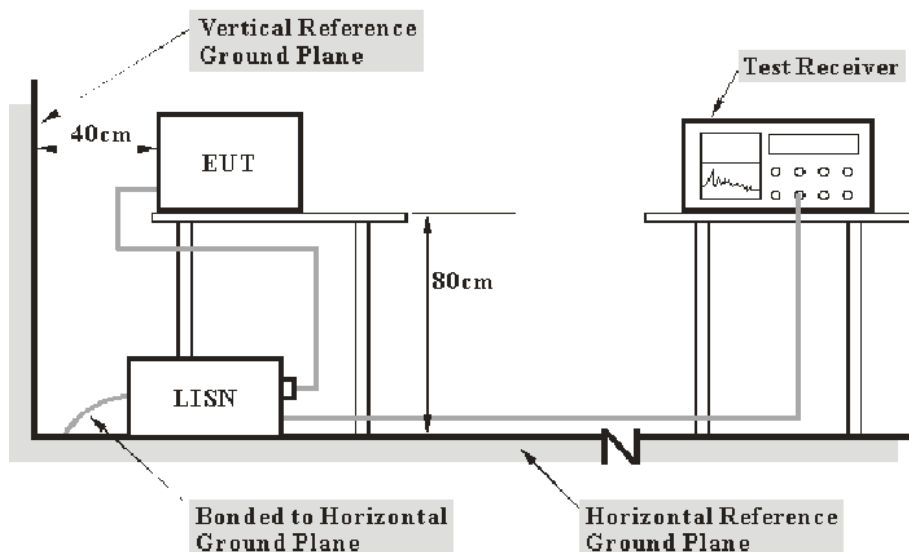
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000  $\mu$ V within the frequency band 535-1705 kHz, as measured using a 50  $\mu$ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in § 15.205, § 15.209, § 15.221, § 15.223, or § 15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

## EUT Setup



Note: 1. Support units were connected to second LISN.  
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

## EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range  | RBW   |
|------------------|-------|
| 150 kHz – 30 MHz | 9 kHz |

## Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

## Factor & Over Limit Calculation

The Corr. is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Corr.} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. The equation for calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Result.}$$

## Test Data

### Environmental Conditions

|                    |          |
|--------------------|----------|
| Temperature:       | 24°C     |
| Relative Humidity: | 49%      |
| ATM Pressure:      | 100.6kPa |

*The testing was performed by Gavy Kim on 2025/12/09.*

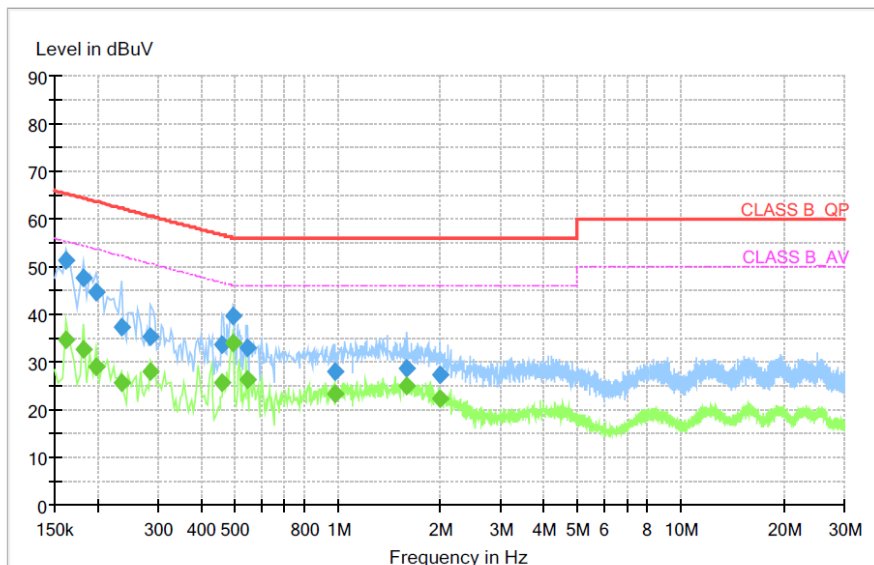
*EUT operation mode: Transmitting*

## BLE (BLE 1Mbps Low Channel was tested)

### AC 120V/60 Hz, Line

#### Common Information

|               |                |
|---------------|----------------|
| Order Number  | 2509T61338E-RF |
| Test Engineer | Gavy Kim       |
| Test Mode:    | Transmitting   |
| Test Date:    | 2025-12-09     |
| Serial No.    | 3DAM-2         |



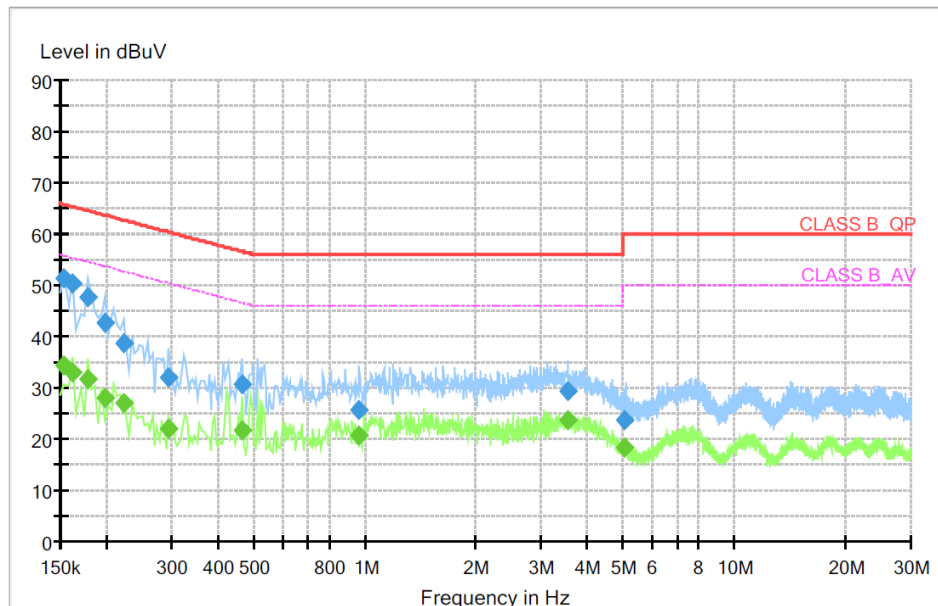
#### Final Result

| Frequency (MHz) | QuasiPeak (dBuV) | Average (dBuV) | Limit (dBuV) | Margin (dB) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|------|--------|------------|
| 0.162000        | ---              | 34.81          | 55.36        | 20.56       | 9.000           | L1   | ON     | 20.3       |
| 0.162000        | 51.44            | ---            | 65.36        | 13.92       | 9.000           | L1   | ON     | 20.3       |
| 0.182000        | ---              | 32.76          | 54.39        | 21.64       | 9.000           | L1   | ON     | 20.3       |
| 0.182000        | 47.80            | ---            | 64.39        | 16.60       | 9.000           | L1   | ON     | 20.3       |
| 0.198000        | ---              | 29.14          | 53.69        | 24.56       | 9.000           | L1   | ON     | 20.2       |
| 0.198000        | 44.75            | ---            | 63.69        | 18.94       | 9.000           | L1   | ON     | 20.2       |
| 0.234000        | ---              | 25.55          | 52.31        | 26.76       | 9.000           | L1   | ON     | 20.1       |
| 0.234000        | 37.30            | ---            | 62.31        | 25.00       | 9.000           | L1   | ON     | 20.1       |
| 0.286000        | ---              | 28.14          | 50.64        | 22.50       | 9.000           | L1   | ON     | 20.1       |
| 0.286000        | 35.19            | ---            | 60.64        | 25.45       | 9.000           | L1   | ON     | 20.1       |
| 0.462000        | ---              | 25.76          | 46.66        | 20.90       | 9.000           | L1   | ON     | 20.3       |
| 0.462000        | 33.76            | ---            | 56.66        | 22.89       | 9.000           | L1   | ON     | 20.3       |
| 0.494000        | ---              | 33.84          | 46.10        | 12.26       | 9.000           | L1   | ON     | 20.3       |
| 0.494000        | 39.76            | ---            | 56.10        | 16.34       | 9.000           | L1   | ON     | 20.3       |
| 0.546000        | ---              | 26.23          | 46.00        | 19.77       | 9.000           | L1   | ON     | 20.3       |
| 0.546000        | 32.92            | ---            | 56.00        | 23.08       | 9.000           | L1   | ON     | 20.3       |
| 0.978000        | ---              | 23.46          | 46.00        | 22.54       | 9.000           | L1   | ON     | 20.2       |
| 0.978000        | 27.95            | ---            | 56.00        | 28.05       | 9.000           | L1   | ON     | 20.2       |
| 1.598000        | ---              | 24.87          | 46.00        | 21.13       | 9.000           | L1   | ON     | 20.2       |
| 1.598000        | 28.78            | ---            | 56.00        | 27.22       | 9.000           | L1   | ON     | 20.2       |
| 1.994000        | ---              | 22.40          | 46.00        | 23.60       | 9.000           | L1   | ON     | 20.3       |
| 1.994000        | 27.39            | ---            | 56.00        | 28.61       | 9.000           | L1   | ON     | 20.3       |

## AC 120V/60 Hz, Neutral

### Common Information

Order Number: 2509T61338E-RF  
 Test Engineer: Gavy Kim  
 Test Mode: Transmitting  
 Test Date: 2025-12-09  
 Serial No. 3DAM-2



### Final Result

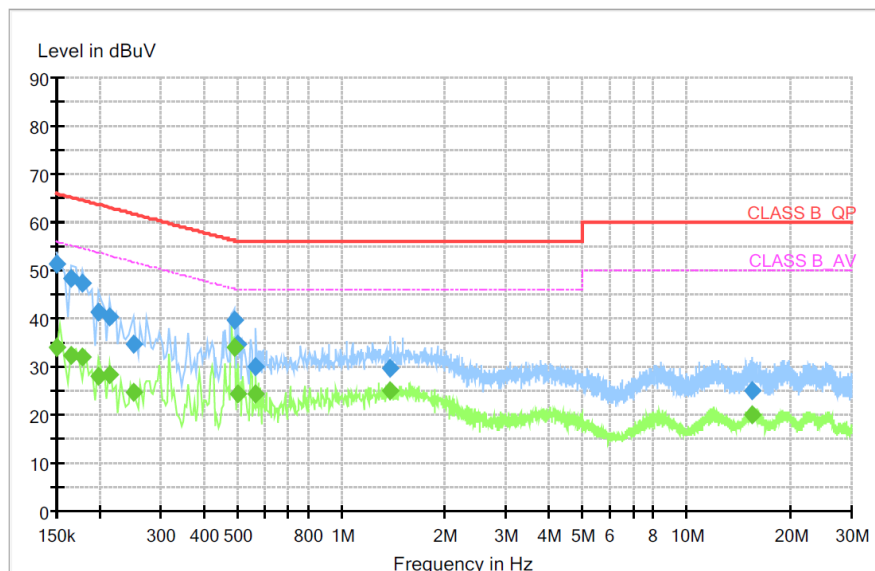
| Frequency (MHz) | QuasiPeak (dBuV) | Average (dBuV) | Limit (dBuV) | Margin (dB) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|------|--------|------------|
| 0.154000        | ---              | 34.18          | 55.78        | 21.61       | 9.000           | N    | ON     | 20.1       |
| 0.154000        | 51.46            | ---            | 65.78        | 14.33       | 9.000           | N    | ON     | 20.1       |
| 0.162000        | ---              | 33.16          | 55.36        | 22.20       | 9.000           | N    | ON     | 20.2       |
| 0.162000        | 50.47            | ---            | 65.36        | 14.90       | 9.000           | N    | ON     | 20.2       |
| 0.178000        | ---              | 31.57          | 54.58        | 23.01       | 9.000           | N    | ON     | 20.3       |
| 0.178000        | 47.66            | ---            | 64.58        | 16.92       | 9.000           | N    | ON     | 20.3       |
| 0.198000        | ---              | 28.09          | 53.69        | 25.60       | 9.000           | N    | ON     | 20.2       |
| 0.198000        | 42.56            | ---            | 63.69        | 21.14       | 9.000           | N    | ON     | 20.2       |
| 0.222000        | ---              | 27.04          | 52.74        | 25.70       | 9.000           | N    | ON     | 20.1       |
| 0.222000        | 38.51            | ---            | 62.74        | 24.24       | 9.000           | N    | ON     | 20.1       |
| 0.294000        | ---              | 22.06          | 50.41        | 28.36       | 9.000           | N    | ON     | 20.1       |
| 0.294000        | 31.90            | ---            | 60.41        | 28.51       | 9.000           | N    | ON     | 20.1       |
| 0.466000        | ---              | 21.72          | 46.59        | 24.87       | 9.000           | N    | ON     | 20.3       |
| 0.466000        | 30.56            | ---            | 56.59        | 26.03       | 9.000           | N    | ON     | 20.3       |
| 0.966000        | ---              | 20.59          | 46.00        | 25.41       | 9.000           | N    | ON     | 20.2       |
| 0.966000        | 25.78            | ---            | 56.00        | 30.22       | 9.000           | N    | ON     | 20.2       |
| 3.554000        | ---              | 23.60          | 46.00        | 22.40       | 9.000           | N    | ON     | 20.5       |
| 3.554000        | 29.30            | ---            | 56.00        | 26.70       | 9.000           | N    | ON     | 20.5       |
| 5.066000        | ---              | 18.37          | 50.00        | 31.63       | 9.000           | N    | ON     | 20.7       |
| 5.066000        | 23.55            | ---            | 60.00        | 36.45       | 9.000           | N    | ON     | 20.7       |

## 2.4G WIFI (802.11n40 High Channel was tested):

AC 120V/60 Hz, Line

### Common Information

Order Number 2509T61338E-RF  
 Test Engineer Gavy Kim  
 Test Mode: Transmitting  
 Test Date: 2025-12-09  
 Serial No. 3DAM-2



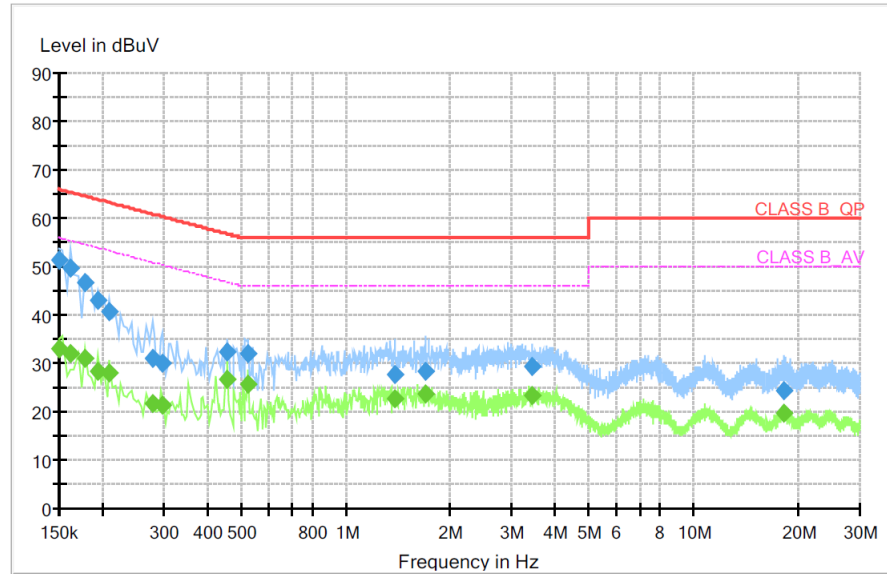
### Final Result

| Frequency (MHz) | QuasiPeak (dBuV) | Average (dBuV) | Limit (dBuV) | Margin (dB) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|------|--------|------------|
| 0.150000        | ---              | 33.88          | 56.00        | 22.12       | 9.000           | L1   | ON     | 20.1       |
| 0.150000        | 51.47            | ---            | 66.00        | 14.53       | 9.000           | L1   | ON     | 20.1       |
| 0.166000        | ---              | 32.34          | 55.16        | 22.82       | 9.000           | L1   | ON     | 20.3       |
| 0.166000        | 48.22            | ---            | 65.16        | 16.94       | 9.000           | L1   | ON     | 20.3       |
| 0.178000        | ---              | 32.14          | 54.58        | 22.44       | 9.000           | L1   | ON     | 20.3       |
| 0.178000        | 47.42            | ---            | 64.58        | 17.16       | 9.000           | L1   | ON     | 20.3       |
| 0.198000        | ---              | 27.85          | 53.69        | 25.84       | 9.000           | L1   | ON     | 20.2       |
| 0.198000        | 41.46            | ---            | 63.69        | 22.23       | 9.000           | L1   | ON     | 20.2       |
| 0.214000        | ---              | 28.26          | 53.05        | 24.78       | 9.000           | L1   | ON     | 20.1       |
| 0.214000        | 40.17            | ---            | 63.05        | 22.88       | 9.000           | L1   | ON     | 20.1       |
| 0.250000        | ---              | 24.76          | 51.76        | 26.99       | 9.000           | L1   | ON     | 20.0       |
| 0.250000        | 34.63            | ---            | 61.76        | 27.13       | 9.000           | L1   | ON     | 20.0       |
| 0.490000        | ---              | 33.96          | 46.17        | 12.21       | 9.000           | L1   | ON     | 20.3       |
| 0.490000        | 39.52            | ---            | 56.17        | 16.65       | 9.000           | L1   | ON     | 20.3       |
| 0.502000        | ---              | 24.26          | 46.00        | 21.74       | 9.000           | L1   | ON     | 20.3       |
| 0.502000        | 34.67            | ---            | 56.00        | 21.33       | 9.000           | L1   | ON     | 20.3       |
| 0.566000        | ---              | 24.21          | 46.00        | 21.79       | 9.000           | L1   | ON     | 20.3       |
| 0.566000        | 30.13            | ---            | 56.00        | 25.87       | 9.000           | L1   | ON     | 20.3       |
| 1.390000        | ---              | 24.98          | 46.00        | 21.02       | 9.000           | L1   | ON     | 20.2       |
| 1.390000        | 29.71            | ---            | 56.00        | 26.29       | 9.000           | L1   | ON     | 20.2       |
| 15.418000       | ---              | 20.07          | 50.00        | 29.93       | 9.000           | L1   | ON     | 21.9       |
| 15.418000       | 25.04            | ---            | 60.00        | 34.96       | 9.000           | L1   | ON     | 21.9       |

## AC 120V/60 Hz, Neutral

### Common Information

Order Number: 2509T61338E-RF  
 Test Engineer: Gavy Kim  
 Test Mode: Transmitting  
 Test Date: 2025-12-09  
 Serial No. 3DAM-2



### Final Result

| Frequency (MHz) | QuasiPeak (dBuV) | Average (dBuV) | Limit (dBuV) | Margin (dB) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|------|--------|------------|
| 0.150000        | ---              | 32.88          | 56.00        | 23.12       | 9.000           | N    | ON     | 20.1       |
| 0.150000        | 51.42            | ---            | 66.00        | 14.58       | 9.000           | N    | ON     | 20.1       |
| 0.162000        | ---              | 32.08          | 55.36        | 23.28       | 9.000           | N    | ON     | 20.2       |
| 0.162000        | 49.60            | ---            | 65.36        | 15.76       | 9.000           | N    | ON     | 20.2       |
| 0.178000        | ---              | 31.03          | 54.58        | 23.54       | 9.000           | N    | ON     | 20.3       |
| 0.178000        | 46.73            | ---            | 64.58        | 17.85       | 9.000           | N    | ON     | 20.3       |
| 0.194000        | ---              | 28.18          | 53.86        | 25.68       | 9.000           | N    | ON     | 20.2       |
| 0.194000        | 42.97            | ---            | 63.86        | 20.89       | 9.000           | N    | ON     | 20.2       |
| 0.210000        | ---              | 28.02          | 53.21        | 25.19       | 9.000           | N    | ON     | 20.1       |
| 0.210000        | 40.79            | ---            | 63.21        | 22.42       | 9.000           | N    | ON     | 20.1       |
| 0.278000        | ---              | 21.72          | 50.88        | 29.16       | 9.000           | N    | ON     | 20.0       |
| 0.278000        | 30.89            | ---            | 60.88        | 29.98       | 9.000           | N    | ON     | 20.0       |
| 0.298000        | ---              | 21.20          | 50.30        | 29.09       | 9.000           | N    | ON     | 20.1       |
| 0.298000        | 30.03            | ---            | 60.30        | 30.26       | 9.000           | N    | ON     | 20.1       |
| 0.458000        | ---              | 26.76          | 46.73        | 19.97       | 9.000           | N    | ON     | 20.3       |
| 0.458000        | 32.31            | ---            | 56.73        | 24.42       | 9.000           | N    | ON     | 20.3       |
| 0.522000        | ---              | 25.69          | 46.00        | 20.31       | 9.000           | N    | ON     | 20.3       |
| 0.522000        | 31.89            | ---            | 56.00        | 24.11       | 9.000           | N    | ON     | 20.3       |
| 1.382000        | ---              | 22.61          | 46.00        | 23.39       | 9.000           | N    | ON     | 20.2       |
| 1.382000        | 27.57            | ---            | 56.00        | 28.43       | 9.000           | N    | ON     | 20.2       |
| 1.694000        | ---              | 23.55          | 46.00        | 22.45       | 9.000           | N    | ON     | 20.2       |
| 1.694000        | 28.26            | ---            | 56.00        | 27.74       | 9.000           | N    | ON     | 20.2       |
| 3.422000        | ---              | 23.43          | 46.00        | 22.57       | 9.000           | N    | ON     | 20.4       |
| 3.422000        | 29.32            | ---            | 56.00        | 26.68       | 9.000           | N    | ON     | 20.4       |
| 18.142000       | ---              | 19.54          | 50.00        | 30.46       | 9.000           | N    | ON     | 22.0       |
| 18.142000       | 24.23            | ---            | 60.00        | 35.77       | 9.000           | N    | ON     | 22.0       |

## FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

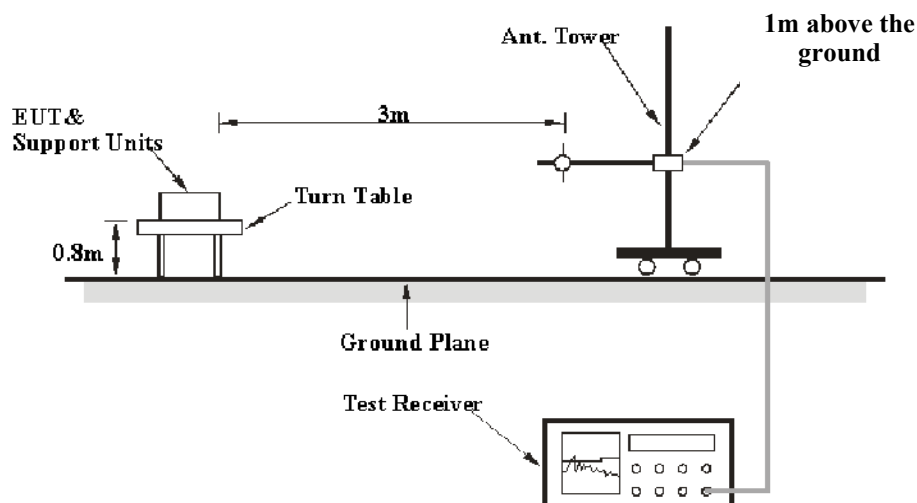
### Applicable Standard

FCC §15.247 (d)

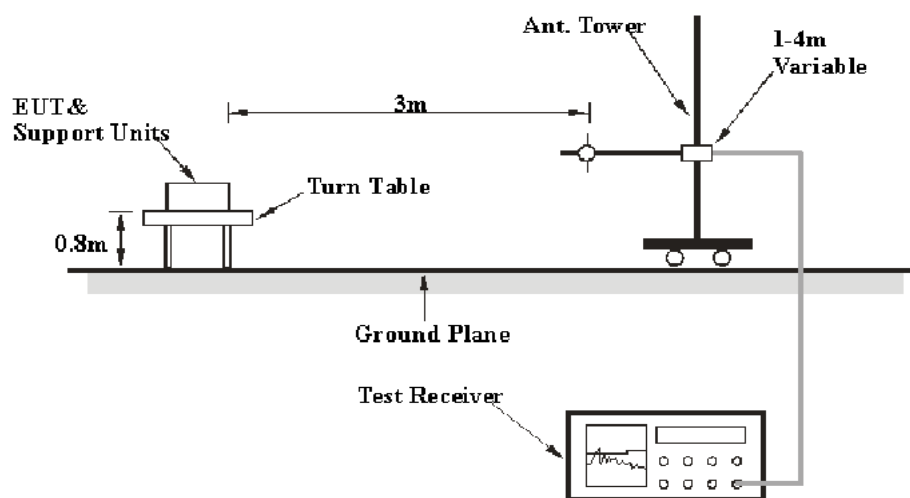
(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

### EUT Setup

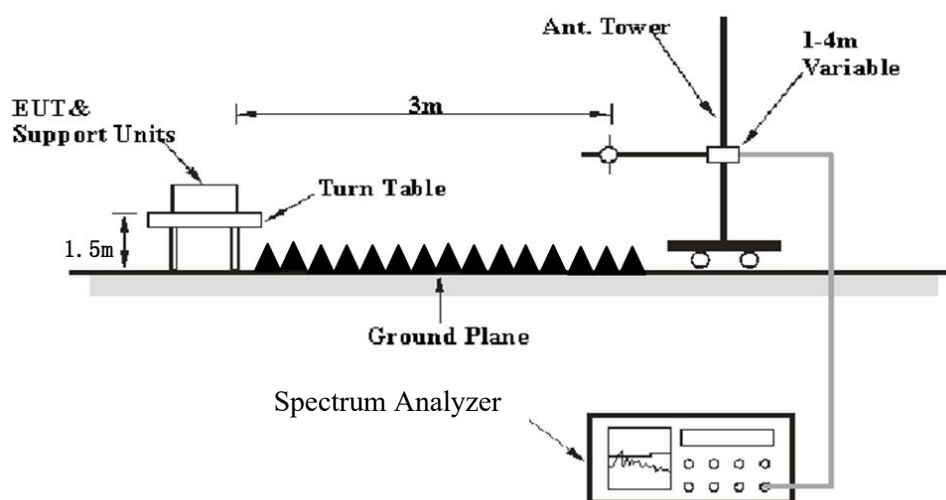
9 kHz-30MHz:



### 30MHz-1GHz:



### Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247 limits.

### EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9 kHz-1GHz:

| Frequency Range   | RBW     | Video B/W | IF B/W  | Measurement | Detector |
|-------------------|---------|-----------|---------|-------------|----------|
| 9 kHz – 150 kHz   | -       | -         | 200 Hz  | QP          | QP       |
|                   | 200 Hz  | 1 kHz     | -       | PK          | Peak     |
| 150 kHz – 30 MHz  | -       | -         | 9 kHz   | QP          | QP       |
|                   | 9 kHz   | 30 kHz    | -       | PK          | Peak     |
| 30 MHz – 1000 MHz | -       | -         | 120 kHz | QP          | QP       |
|                   | 120 kHz | 500 kHz   | -       | PK          | Peak     |

1-25GHz:

Pre-scan

| Measurement | Duty cycle | RBW  | Video B/W | Detector |
|-------------|------------|------|-----------|----------|
| PK          | Any        | 1MHz | 3 MHz     | Peak     |
| AV          | >98%       | 1MHz | 1 kHz     | Peak     |
|             | <98%       | 1MHz | ≥1/Ton    | Peak     |

Final measurement for emission identified during pre-scan

| Measurement | Duty cycle | RBW  | Video B/W | Detector |
|-------------|------------|------|-----------|----------|
| PK          | Any        | 1MHz | 3 MHz     | Peak     |
| AV          | >98%       | 1MHz | 10 Hz     | Peak     |
|             | <98%       | 1MHz | ≥1/Ton    | Peak     |

Note: Ton is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

All emissions under the average limit and under the noise floor have not recorded in the report.

## Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “Over Limit/Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\text{Over Limit/Margin} = \text{Level} - \text{Limit}$$

$$\text{Level} = \text{Read Level} + \text{Factor}$$

**Test Data**  
**Environmental Conditions**

|                           |                |
|---------------------------|----------------|
| <b>Temperature:</b>       | 21.4~33.3°C    |
| <b>Relative Humidity:</b> | 46~51%         |
| <b>ATM Pressure:</b>      | 100.5~101.6kPa |

*The testing was performed by Gavy Kim on 2025/11/26~2025/12/09.*

*EUT operation mode: Transmitting*

*After pre-scan in the X, Y and Z axes of orientation, the worst case is referred to table and plots.*

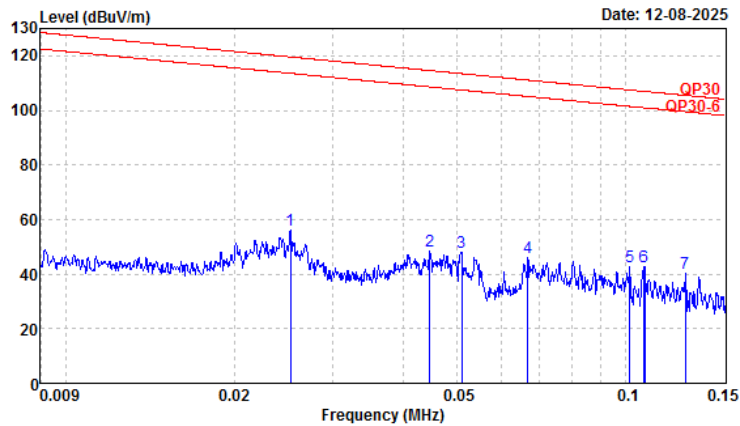
**9 kHz-30MHz:**

Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured, the worst orientations was below.

**BLE (BLE 1Mbps Low Channel was tested):**

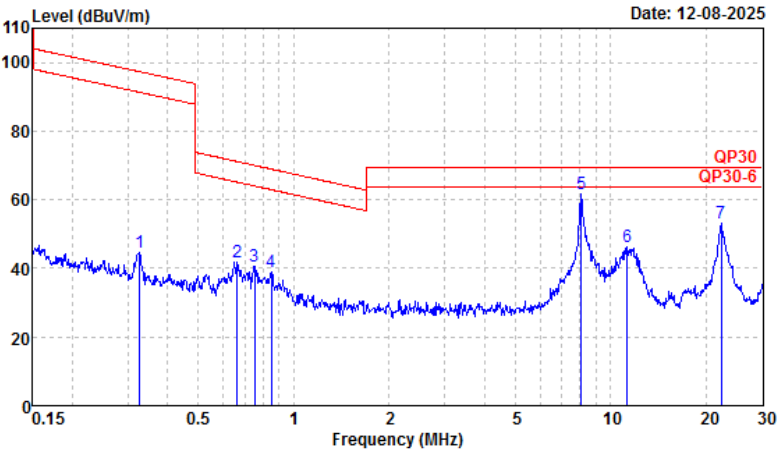


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Site : 3M chamber  
Condition :  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Polarization: Parallel  
Note 1 : BLE  
Note 2 : RBW:200Hz VBW:1kHz

|   | Freq  | Level | Factor | Level  | Limit  | Over   | Remark |
|---|-------|-------|--------|--------|--------|--------|--------|
|   | MHz   | dBuV  | dB/m   | dBuV/m | dBuV/m | dB     |        |
| 1 | 0.025 | 66.25 | -10.17 | 56.08  | 119.58 | -63.50 | Peak   |
| 2 | 0.045 | 59.38 | -11.00 | 48.38  | 114.61 | -66.23 | Peak   |
| 3 | 0.051 | 59.08 | -11.16 | 47.92  | 113.47 | -65.55 | Peak   |
| 4 | 0.067 | 57.58 | -11.52 | 46.06  | 111.10 | -65.04 | Peak   |
| 5 | 0.102 | 54.87 | -12.29 | 42.58  | 107.45 | -64.87 | Peak   |
| 6 | 0.108 | 54.88 | -12.29 | 42.59  | 106.97 | -64.38 | Peak   |
| 7 | 0.127 | 52.75 | -12.30 | 40.45  | 105.52 | -65.07 | Peak   |



Site : 3M chamber

Condition :

Project No. : 2509T61338E-RF

Serial No. : 3DAM-2

Tester : Gavy Kim

Test Mode : Transmitting

Polarization: Parallel

Note 1 : BLE

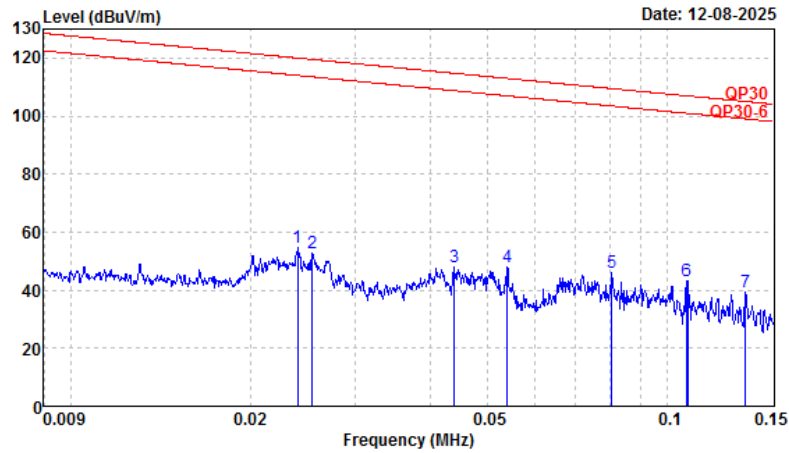
Note 2 : RBW:9kHz VBW:30kHz

|   | Freq   | Read  |        | Limit  | Over   |              |
|---|--------|-------|--------|--------|--------|--------------|
|   |        | Level | Factor | Level  | Line   | Limit Remark |
|   | MHz    | dBuV  | dB/m   | dBuV/m | dBuV/m | dB           |
| 1 | 0.327  | 56.78 | -12.29 | 44.49  | 97.32  | -52.83 Peak  |
| 2 | 0.665  | 54.06 | -12.25 | 41.81  | 71.09  | -29.28 Peak  |
| 3 | 0.751  | 52.90 | -12.21 | 40.69  | 70.01  | -29.32 Peak  |
| 4 | 0.848  | 51.09 | -12.19 | 38.90  | 68.93  | -30.03 Peak  |
| 5 | 8.105  | 73.07 | -11.48 | 61.59  | 69.54  | -7.95 Peak   |
| 6 | 11.317 | 57.61 | -11.35 | 46.26  | 69.54  | -23.28 Peak  |
| 7 | 22.180 | 63.95 | -10.92 | 53.03  | 69.54  | -16.51 Peak  |

**2.4G WIFI (802.11n40 High Channel was tested):**

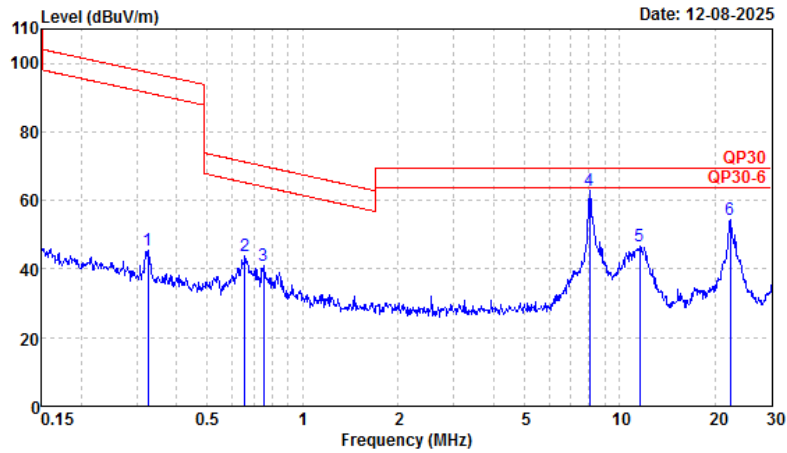


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fax:031-333-0017  
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Site : 3M chamber  
Condition :  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Polarization: Parallel  
Note 1 : 2.4G WIFI  
Note 2 : RBW:200Hz VBW:1kHz

|   | Freq  | Read  | Level  | Factor | Level  | Limit  | Over  |        |
|---|-------|-------|--------|--------|--------|--------|-------|--------|
|   | MHz   | dBuV  | dB/m   | dBuV/m | dBuV/m | dB     | Limit | Remark |
| 1 | 0.024 | 64.96 | -10.07 | 54.89  | 120.02 | -65.13 |       | Peak   |
| 2 | 0.025 | 63.04 | -10.19 | 52.85  | 119.50 | -66.65 |       | Peak   |
| 3 | 0.044 | 58.78 | -10.97 | 47.81  | 114.74 | -66.93 |       | Peak   |
| 4 | 0.054 | 59.08 | -11.23 | 47.85  | 112.98 | -65.13 |       | Peak   |
| 5 | 0.081 | 57.89 | -11.84 | 46.05  | 109.46 | -63.41 |       | Peak   |
| 6 | 0.108 | 55.46 | -12.29 | 43.17  | 106.97 | -63.80 |       | Peak   |
| 7 | 0.134 | 51.63 | -12.29 | 39.34  | 105.04 | -65.70 |       | Peak   |



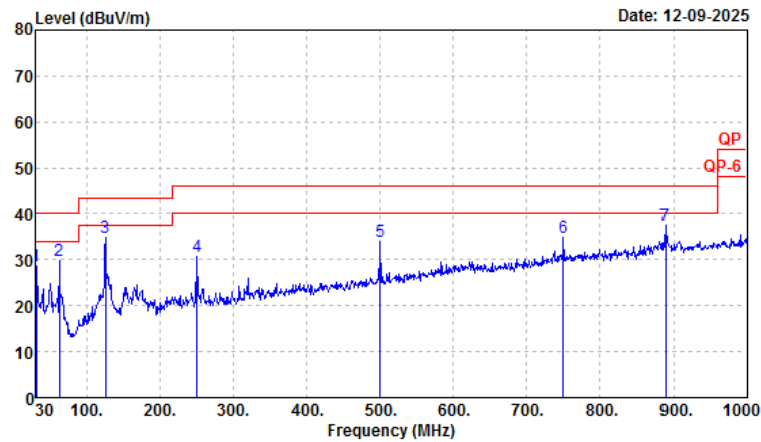
Site : 3M chamber  
Condition :  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Polarization: Parallel  
Note 1 : 2.4G WIFI  
Note 2 : RBW:9kHz VBW:30kHz

|   | Freq   | Read   |        | Limit  | Over   |             |
|---|--------|--------|--------|--------|--------|-------------|
|   | Level  | Factor | Level  | Line   | Limit  | Remark      |
|   | MHz    | dBuV   | dB/m   | dBuV/m | dBuV/m | dB          |
| 1 | 0.325  | 57.69  | -12.29 | 45.40  | 97.36  | -51.96 Peak |
| 2 | 0.658  | 56.04  | -12.25 | 43.79  | 71.19  | -27.40 Peak |
| 3 | 0.751  | 53.25  | -12.21 | 41.04  | 70.01  | -28.97 Peak |
| 4 | 8.062  | 74.33  | -11.48 | 62.85  | 69.54  | -6.69 Peak  |
| 5 | 11.621 | 58.12  | -11.34 | 46.78  | 69.54  | -22.76 Peak |
| 6 | 22.180 | 65.25  | -10.92 | 54.33  | 69.54  | -15.21 Peak |

**30MHz-1GHz:  
BLE (BLE 1Mbps Low Channel was tested):**

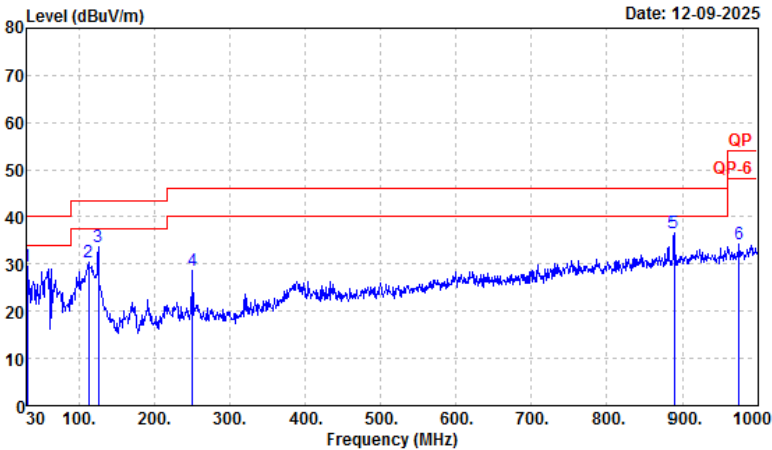


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Site : 3M chamber  
Condition : HORIZONTAL  
Project No.: 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Note 1 : BLE  
Note 2 : RBW:120kHz VBW:500kHz

|   | Freq    | Read  | Factor | Level  | Limit  | Over   |            |        |
|---|---------|-------|--------|--------|--------|--------|------------|--------|
|   | MHz     | dBuV  | dB/m   | dBuV/m | dBuV/m | dB     | Pol/Phase  | Remark |
| 1 | 30.000  | 42.08 | -13.50 | 28.58  | 40.00  | -11.42 | HORIZONTAL | Peak   |
| 2 | 62.010  | 41.14 | -11.26 | 29.88  | 40.00  | -10.12 | HORIZONTAL | Peak   |
| 3 | 125.060 | 48.49 | -13.64 | 34.85  | 43.50  | -8.65  | HORIZONTAL | Peak   |
| 4 | 250.190 | 39.74 | -8.95  | 30.79  | 46.00  | -15.21 | HORIZONTAL | Peak   |
| 5 | 500.450 | 36.95 | -2.92  | 34.03  | 46.00  | -11.97 | HORIZONTAL | Peak   |
| 6 | 750.710 | 32.97 | 1.94   | 34.91  | 46.00  | -11.09 | HORIZONTAL | Peak   |
| 7 | 889.420 | 33.21 | 4.18   | 37.39  | 46.00  | -8.61  | HORIZONTAL | Peak   |



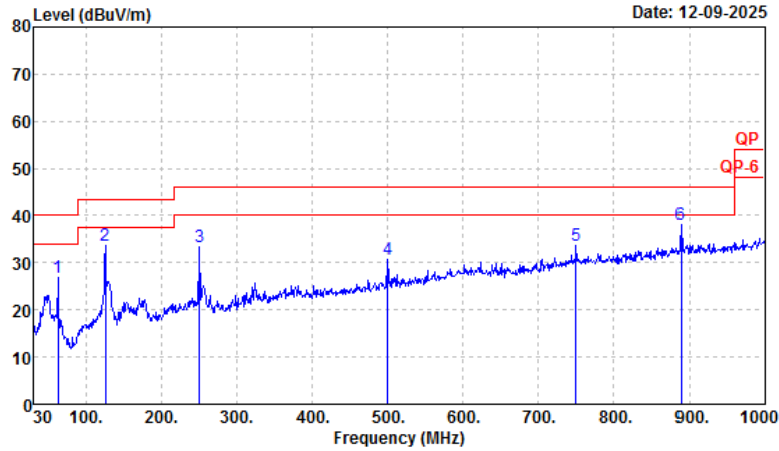
Site : 3M chamber  
Condition : VERTICAL  
Project No.: 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Note 1 : BLE  
Note 2 : RBW:120kHz VBW:500kHz

|   |         | Read  |        |        | Limit  | Over   |           |        |
|---|---------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq    | Level | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz     | dBuV  | dB/m   | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 30.000  | 42.92 | -13.50 | 29.42  | 40.00  | -10.58 | VERTICAL  | Peak   |
| 2 | 112.450 | 42.17 | -11.82 | 30.35  | 43.50  | -13.15 | VERTICAL  | Peak   |
| 3 | 125.060 | 47.37 | -13.64 | 33.73  | 43.50  | -9.77  | VERTICAL  | Peak   |
| 4 | 250.190 | 37.67 | -8.95  | 28.72  | 46.00  | -17.28 | VERTICAL  | Peak   |
| 5 | 889.420 | 32.29 | 4.18   | 36.47  | 46.00  | -9.53  | VERTICAL  | Peak   |
| 6 | 975.750 | 28.52 | 5.69   | 34.21  | 54.00  | -19.79 | VERTICAL  | Peak   |

**2.4G WIFI (802.11n40 High Channel was tested):**

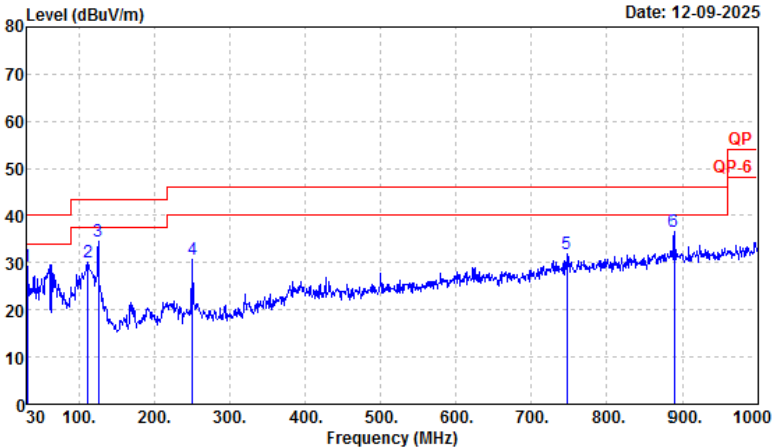


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Site : 3M chamber  
Condition : HORIZONTAL  
Project No.: 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Note 1 : 2.4G WIFI  
Note 2 : RBW:120kHz VBW:500kHz

|      |         | Read   |        | Limit  | Over  |           |                 |
|------|---------|--------|--------|--------|-------|-----------|-----------------|
| Freq | Level   | Factor | Level  | Line   | Limit | Pol/Phase | Remark          |
| MHz  | dBuV    | dB/m   | dBuV/m | dBuV/m | dB    |           |                 |
| 1    | 62.010  | 38.08  | -11.26 | 26.82  | 40.00 | -13.18    | HORIZONTAL Peak |
| 2    | 125.060 | 47.29  | -13.64 | 33.65  | 43.50 | -9.85     | HORIZONTAL Peak |
| 3    | 250.190 | 42.22  | -8.95  | 33.27  | 46.00 | -12.73    | HORIZONTAL Peak |
| 4    | 500.450 | 33.51  | -2.92  | 30.59  | 46.00 | -15.41    | HORIZONTAL Peak |
| 5    | 750.710 | 31.68  | 1.94   | 33.62  | 46.00 | -12.38    | HORIZONTAL Peak |
| 6    | 889.420 | 33.83  | 4.18   | 38.01  | 46.00 | -7.99     | HORIZONTAL Peak |



Site : 3M chamber

Condition : VERTICAL

Project No.: 2509T61338E-RF

Serial No. : 3DAM-2

Tester : Gavy Kim

Test Mode : Transmitting

Note 1 : 2.4G WIFI

Note 2 : RBW:120kHz VBW:500kHz

|   | Freq    | Read Level | Factor | Level  | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---------|------------|--------|--------|------------|------------|-----------|--------|
|   | MHz     | dBuV       | dB/m   | dBuV/m | dBuV/m     | dB         |           |        |
| 1 | 30.000  | 42.74      | -13.50 | 29.24  | 40.00      | -10.76     | VERTICAL  | Peak   |
| 2 | 111.480 | 41.90      | -11.66 | 30.24  | 43.50      | -13.26     | VERTICAL  | Peak   |
| 3 | 125.060 | 48.13      | -13.64 | 34.49  | 43.50      | -9.01      | VERTICAL  | Peak   |
| 4 | 250.190 | 39.52      | -8.95  | 30.57  | 46.00      | -15.43     | VERTICAL  | Peak   |
| 5 | 747.800 | 29.97      | 1.86   | 31.83  | 46.00      | -14.17     | VERTICAL  | Peak   |
| 6 | 889.420 | 32.52      | 4.18   | 36.70  | 46.00      | -9.30      | VERTICAL  | Peak   |

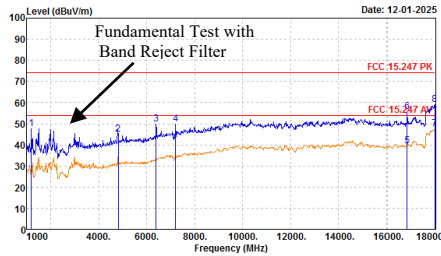
# 1-18 GHz:

## BLE:

### BLE 1M low channel Horizontal



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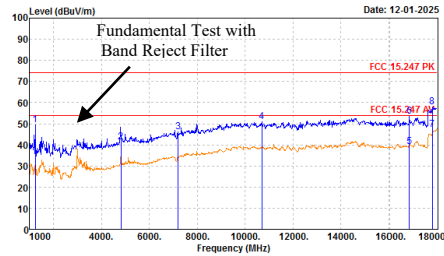
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: BLE 1M low channel 2402MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over   | Pol/Phase | Remark             |
|------|-----------|-------|--------|--------|--------|-----------|--------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dBuV/m | dB        |                    |
| 1    | 1187.000  | 64.60 | -16.95 | 47.65  | 74.00  | -26.35    | HORIZONTAL Peak    |
| 2    | 4804.000  | 52.65 | -7.50  | 45.15  | 74.00  | -28.85    | HORIZONTAL Peak    |
| 3    | 6389.000  | 54.83 | -5.15  | 49.68  | 74.00  | -24.32    | HORIZONTAL Peak    |
| 4    | 7286.000  | 52.75 | -3.67  | 49.08  | 74.00  | -24.32    | HORIZONTAL Peak    |
| 5    | 16827.000 | 36.01 | 3.37   | 39.38  | 54.00  | -14.62    | HORIZONTAL Average |
| 6    | 16827.000 | 52.31 | 3.37   | 55.68  | 74.00  | -18.32    | HORIZONTAL Peak    |
| 7    | 17983.000 | 34.22 | 13.30  | 47.52  | 54.00  | -6.40     | HORIZONTAL Average |
| 8    | 17983.000 | 45.59 | 13.30  | 58.89  | 74.00  | -15.11    | HORIZONTAL Peak    |

### BLE 1M low channel Vertical



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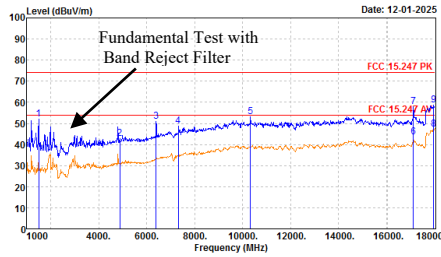
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: BLE 1M low channel 2402MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over   | Pol/Phase | Remark           |
|------|-----------|-------|--------|--------|--------|-----------|------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dBuV/m | dB        |                  |
| 1    | 1238.000  | 66.28 | -16.86 | 49.42  | 74.00  | -24.58    | VERTICAL Peak    |
| 2    | 4804.000  | 48.78 | -7.50  | 41.28  | 74.00  | -32.72    | VERTICAL Peak    |
| 3    | 7286.000  | 49.17 | -3.07  | 46.10  | 74.00  | -27.90    | VERTICAL Peak    |
| 4    | 10650.000 | 50.12 | 0.95   | 51.07  | 74.00  | -22.93    | VERTICAL Peak    |
| 5    | 16827.000 | 35.91 | 3.37   | 39.28  | 54.00  | -14.72    | VERTICAL Average |
| 6    | 16827.000 | 50.12 | 3.37   | 53.49  | 74.00  | -20.51    | VERTICAL Peak    |
| 7    | 17779.000 | 36.27 | 10.86  | 47.13  | 54.00  | -6.67     | VERTICAL Average |
| 8    | 17779.000 | 47.11 | 10.86  | 57.97  | 74.00  | -16.03    | VERTICAL Peak    |

### BLE 1M middle channel Horizontal



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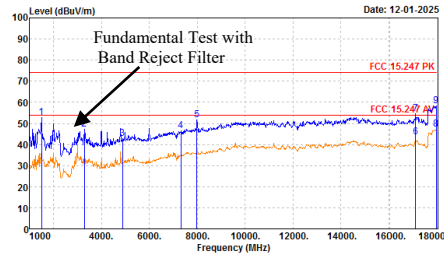
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: BLE 1M middle channel 2440MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|             | Read  | Limit  | Over   |       |
|-------------|-------|--------|--------|-------|
| Freq        | Level | Factor | Level  | Line  |
| MHz         | dBuV  | dB/m   | dBuV/m | dB    |
| 1 1493.000  | 68.48 | -16.36 | 52.12  | 74.00 |
| 2 4880.000  | 50.28 | -7.39  | 42.87  | 74.00 |
| 3 6389.000  | 56.21 | -5.15  | 51.06  | 74.00 |
| 4 7320.000  | 51.36 | -2.71  | 48.65  | 74.00 |
| 5 10316.000 | 52.25 | 0.97   | 53.22  | 74.00 |
| 6 17082.000 | 39.30 | 4.41   | 43.71  | 54.00 |
| 7 17082.000 | 53.69 | 4.41   | 58.10  | 74.00 |
| 8 17932.000 | 34.46 | 12.69  | 47.15  | 54.00 |
| 9 17932.000 | 45.88 | 12.69  | 58.57  | 74.00 |

### BLE 1M middle channel Vertical



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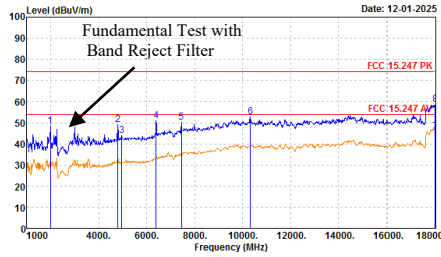
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: BLE 1M middle channel 2440MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|             | Read  | Limit  | Over   |       |
|-------------|-------|--------|--------|-------|
| Freq        | Level | Factor | Level  | Line  |
| MHz         | dBuV  | dB/m   | dBuV/m | dB    |
| 1 1493.000  | 69.13 | -16.36 | 52.77  | 74.00 |
| 2 3278.000  | 57.04 | -9.76  | 47.28  | 74.00 |
| 3 4880.000  | 50.15 | -7.39  | 42.76  | 74.00 |
| 4 7320.000  | 49.36 | -2.71  | 46.65  | 74.00 |
| 5 7987.000  | 53.35 | -1.74  | 51.61  | 74.00 |
| 6 17082.000 | 39.21 | 4.41   | 43.62  | 54.00 |
| 7 17082.000 | 50.33 | 4.41   | 54.74  | 74.00 |
| 8 17949.000 | 34.40 | 12.90  | 47.30  | 54.00 |
| 9 17949.000 | 45.45 | 12.90  | 58.35  | 74.00 |

## BLE 1M high channel Horizontal



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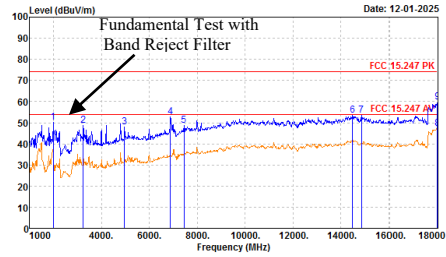
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: BLE 1M high channel 2480MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over   | Pol/Phase | Remark             |
|------|-----------|-------|--------|--------|--------|-----------|--------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dBuV/m | dB        |                    |
| 1    | 1986.000  | 62.02 | -13.81 | 48.21  | 74.00  | -25.79    | HORIZONTAL Peak    |
| 2    | 4791.000  | 56.68 | -7.52  | 49.16  | 74.00  | -24.84    | HORIZONTAL Peak    |
| 3    | 4960.000  | 51.22 | -7.28  | 43.94  | 74.00  | -30.06    | HORIZONTAL Peak    |
| 4    | 6389.000  | 56.14 | -5.15  | 50.99  | 74.00  | -23.01    | HORIZONTAL Peak    |
| 5    | 7440.000  | 52.70 | -2.33  | 50.37  | 74.00  | -23.63    | HORIZONTAL Peak    |
| 6    | 10316.000 | 51.77 | 0.97   | 52.74  | 74.00  | -21.26    | HORIZONTAL Peak    |
| 7    | 18000.000 | 32.10 | 13.51  | 45.61  | 54.00  | -8.39     | HORIZONTAL Average |
| 8    | 18000.000 | 45.17 | 13.51  | 58.68  | 74.00  | -15.32    | HORIZONTAL Peak    |

## BLE 1M high channel Vertical



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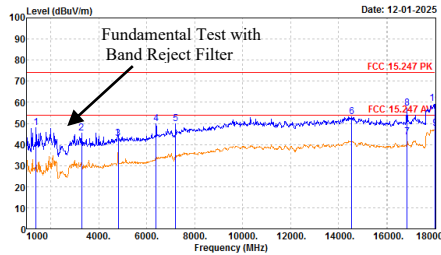
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: BLE 1M high channel 2480MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over   | Pol/Phase | Remark           |
|------|-----------|-------|--------|--------|--------|-----------|------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dBuV/m | dB        |                  |
| 1    | 1986.000  | 63.81 | -13.81 | 50.00  | 74.00  | -24.00    | VERTICAL Peak    |
| 2    | 3227.000  | 58.46 | -9.89  | 48.57  | 74.00  | -25.43    | VERTICAL Peak    |
| 3    | 4960.000  | 55.07 | -7.28  | 47.79  | 74.00  | -26.21    | VERTICAL Peak    |
| 4    | 6882.000  | 56.53 | -3.93  | 52.60  | 74.00  | -21.40    | VERTICAL Peak    |
| 5    | 7440.000  | 50.99 | -2.33  | 48.66  | 74.00  | -25.34    | VERTICAL Peak    |
| 6    | 14481.000 | 49.84 | 3.81   | 53.65  | 74.00  | -20.35    | VERTICAL Peak    |
| 7    | 14855.000 | 50.85 | 3.30   | 53.43  | 74.00  | -20.57    | VERTICAL Peak    |
| 8    | 18000.000 | 33.00 | 13.51  | 47.31  | 54.00  | -6.69     | VERTICAL Average |
| 9    | 18000.000 | 46.28 | 13.51  | 59.79  | 74.00  | -14.21    | VERTICAL Peak    |

### BLE 2M low channel Horizontal



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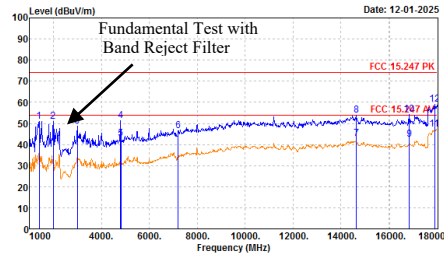
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: BLE 2M low channel 2402MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over   |        |                           |
|--------------|-------|--------|--------|--------|---------------------------|
| Freq         | Level | Factor | Level  | Line   | Limit Pol/Phase Remark    |
| MHz          | dBuV  | dB/m   | dBuV/m | dBuV/m | dB                        |
| 1 1374.000   | 64.56 | -16.59 | 47.97  | 74.00  | -26.03 HORIZONTAL Peak    |
| 2 3278.000   | 55.33 | -9.76  | 45.57  | 74.00  | -28.43 HORIZONTAL Peak    |
| 3 4884.000   | 50.29 | -7.50  | 42.79  | 74.00  | -31.21 HORIZONTAL Peak    |
| 4 6389.000   | 54.98 | -5.15  | 49.83  | 74.00  | -24.17 HORIZONTAL Peak    |
| 5 7286.000   | 52.00 | -3.07  | 48.93  | 74.00  | -24.27 HORIZONTAL Peak    |
| 6 14549.000  | 49.27 | 3.77   | 53.04  | 74.00  | -20.96 HORIZONTAL Peak    |
| 7 16827.000  | 40.19 | 3.37   | 43.56  | 54.00  | -10.44 HORIZONTAL Average |
| 8 16827.000  | 53.95 | 3.37   | 57.32  | 74.00  | -16.68 HORIZONTAL Peak    |
| 9 18000.000  | 34.10 | 13.51  | 47.61  | 54.00  | -6.39 HORIZONTAL Average  |
| 10 18000.000 | 45.97 | 13.51  | 59.48  | 74.00  | -14.52 HORIZONTAL Peak    |

### BLE 2M low channel Vertical



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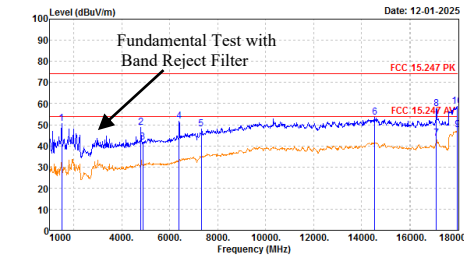
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: BLE 2M low channel 2402MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over   |        |                         |
|--------------|-------|--------|--------|--------|-------------------------|
| Freq         | Level | Factor | Level  | Line   | Limit Pol/Phase Remark  |
| MHz          | dBuV  | dB/m   | dBuV/m | dBuV/m | dB                      |
| 1 1391.000   | 67.46 | -16.57 | 50.89  | 74.00  | -23.11 VERTICAL Peak    |
| 2 1986.000   | 64.90 | -13.81 | 51.09  | 74.00  | -22.91 VERTICAL Peak    |
| 3 2989.000   | 59.07 | -10.35 | 48.72  | 74.00  | -25.28 VERTICAL Peak    |
| 4 4791.000   | 58.91 | -7.52  | 51.39  | 74.00  | -22.61 VERTICAL Peak    |
| 5 4884.000   | 50.13 | -7.50  | 42.63  | 74.00  | -31.37 VERTICAL Peak    |
| 6 7286.000   | 49.58 | -3.07  | 46.51  | 74.00  | -27.49 VERTICAL Peak    |
| 7 14651.000  | 39.24 | 3.65   | 42.89  | 54.00  | -11.11 VERTICAL Average |
| 8 14651.000  | 50.39 | 3.65   | 54.04  | 74.00  | -19.96 VERTICAL Peak    |
| 9 16827.000  | 39.14 | 3.37   | 42.51  | 54.00  | -11.49 VERTICAL Average |
| 10 16827.000 | 50.91 | 3.37   | 54.28  | 74.00  | -19.72 VERTICAL Peak    |
| 11 17881.000 | 35.17 | 12.07  | 47.24  | 54.00  | -6.76 VERTICAL Average  |
| 12 17881.000 | 46.83 | 12.07  | 58.90  | 74.00  | -15.10 VERTICAL Peak    |

## BLE 2M middle channel Horizontal



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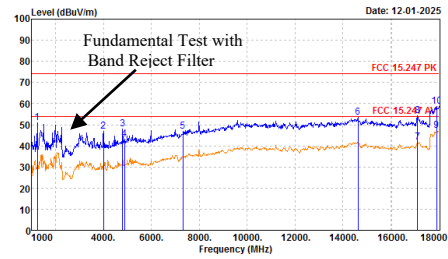
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: BLE 2M middle channel 2440MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       |        | Limit  |       |        | Remark             |
|------|-----------|-------|--------|--------|-------|--------|--------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB    | dB     |                    |
| 1    | 1493.000  | 66.86 | -16.36 | 50.50  | 74.00 | -23.50 | HORIZONTAL Peak    |
| 2    | 4791.000  | 56.15 | -7.52  | 48.63  | 74.00 | -25.37 | HORIZONTAL Peak    |
| 3    | 4880.000  | 49.22 | -7.39  | 41.83  | 74.00 | -32.17 | HORIZONTAL Peak    |
| 4    | 6389.000  | 56.95 | -5.15  | 51.80  | 74.00 | -22.20 | HORIZONTAL Peak    |
| 5    | 7320.000  | 50.67 | -2.71  | 47.96  | 74.00 | -26.04 | HORIZONTAL Peak    |
| 6    | 14549.000 | 49.79 | 3.77   | 53.56  | 74.00 | -20.44 | HORIZONTAL Peak    |
| 7    | 17082.000 | 39.31 | 4.41   | 43.72  | 54.00 | -10.20 | HORIZONTAL Average |
| 8    | 17082.000 | 53.28 | 4.41   | 57.69  | 74.00 | -16.31 | HORIZONTAL Peak    |
| 9    | 17966.000 | 34.44 | 13.10  | 47.54  | 54.00 | -6.46  | HORIZONTAL Average |
| 10   | 17966.000 | 45.50 | 13.10  | 58.60  | 74.00 | -15.40 | HORIZONTAL Peak    |

## BLE 2M middle channel Vertical



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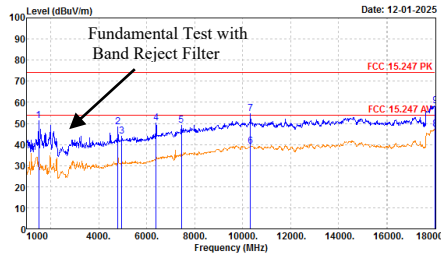
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: BLE 2M middle channel 2440MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       |        | Limit  |       |        | Remark           |
|------|-----------|-------|--------|--------|-------|--------|------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB    | dB     |                  |
| 1    | 1238.000  | 67.70 | -16.86 | 50.84  | 74.00 | -23.16 | VERTICAL Peak    |
| 2    | 3992.000  | 55.43 | -8.61  | 46.82  | 74.00 | -27.18 | VERTICAL Peak    |
| 3    | 4791.000  | 55.32 | -7.52  | 47.80  | 74.00 | -26.20 | VERTICAL Peak    |
| 4    | 4880.000  | 50.65 | -7.39  | 43.26  | 74.00 | -30.74 | VERTICAL Peak    |
| 5    | 7320.000  | 49.56 | -2.71  | 46.85  | 74.00 | -27.15 | VERTICAL Peak    |
| 6    | 14634.000 | 49.65 | 3.67   | 53.32  | 74.00 | -20.60 | VERTICAL Peak    |
| 7    | 17082.000 | 37.30 | 4.41   | 41.71  | 54.00 | -12.20 | VERTICAL Average |
| 8    | 17082.000 | 49.96 | 4.41   | 54.37  | 74.00 | -15.63 | VERTICAL Peak    |
| 9    | 17881.000 | 35.18 | 12.07  | 47.25  | 54.00 | -6.75  | VERTICAL Average |
| 10   | 17881.000 | 46.71 | 12.07  | 58.78  | 74.00 | -15.22 | VERTICAL Peak    |

### BLE 2M high channel Horizontal



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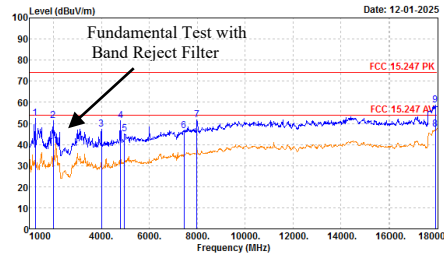
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: BLE 2M high channel 2480MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|             | Read  | Limit  | Over   |        |
|-------------|-------|--------|--------|--------|
| Freq        | Level | Factor | Level  | Line   |
| MHz         | dBuV  | dB/m   | dBuV/m | dBuV/m |
| 1 1493.000  | 67.82 | -16.36 | 51.46  | 74.00  |
| 2 4791.000  | 55.87 | -7.52  | 48.35  | 74.00  |
| 3 4960.000  | 51.16 | -7.28  | 43.88  | 74.00  |
| 4 6389.000  | 55.16 | -5.15  | 50.01  | 74.00  |
| 5 7440.000  | 51.53 | -2.33  | 49.20  | 74.00  |
| 6 10316.000 | 38.11 | 0.97   | 39.08  | 54.00  |
| 7 10316.000 | 53.48 | 0.97   | 54.45  | 74.00  |
| 8 18000.000 | 33.60 | 13.51  | 47.11  | 54.00  |
| 9 18000.000 | 44.89 | 13.51  | 58.40  | 74.00  |

### BLE 2M high channel Vertical



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Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: BLE 2M high channel 2480MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

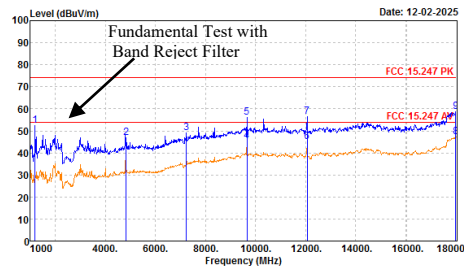
|             | Read  | Limit  | Over   |        |
|-------------|-------|--------|--------|--------|
| Freq        | Level | Factor | Level  | Line   |
| MHz         | dBuV  | dB/m   | dBuV/m | dBuV/m |
| 1 1238.000  | 69.39 | -16.06 | 53.33  | 74.00  |
| 2 1986.000  | 64.97 | -13.81 | 51.16  | 74.00  |
| 3 3992.000  | 55.95 | -8.61  | 47.34  | 74.00  |
| 4 4791.000  | 58.85 | -7.52  | 51.33  | 74.00  |
| 5 4960.000  | 52.39 | -7.28  | 45.11  | 74.00  |
| 6 7440.000  | 48.98 | -2.33  | 46.65  | 74.00  |
| 7 7987.000  | 53.22 | -1.74  | 51.48  | 74.00  |
| 8 17915.000 | 34.66 | 12.49  | 47.15  | 54.00  |
| 9 17915.000 | 46.21 | 12.49  | 58.70  | 74.00  |

## 2.4G WIFI:

### 802.11b low channel Chain0 Horizontal



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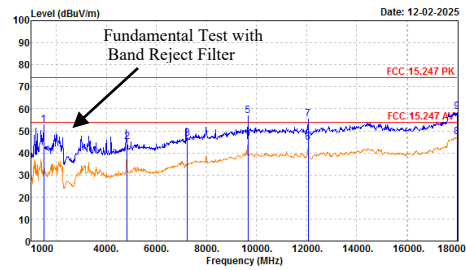
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b low channel 2412MHz Chain 0  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|   | Freq      | Read Level | Factor | Level | Limit  | Over   | Limit | Pol/Phase  | Remark  |
|---|-----------|------------|--------|-------|--------|--------|-------|------------|---------|
|   | MHz       | dBuV       |        | dBm   | dBuV/m | dBuV/m | dB    |            |         |
| 1 | 1187.000  | 69.40      | -16.95 | 52.45 | 74.00  | -21.55 |       | HORIZONTAL | Peak    |
| 2 | 4824.000  | 54.43      | -7.46  | 46.97 | 74.00  | -27.03 |       | HORIZONTAL | Peak    |
| 3 | 7236.000  | 52.14      | -2.97  | 49.17 | 74.00  | -24.83 |       | HORIZONTAL | Peak    |
| 4 | 9648.000  | 44.77      | 0.78   | 45.55 | 54.00  | -8.45  |       | HORIZONTAL | Average |
| 5 | 9648.000  | 55.14      | 0.78   | 55.92 | 74.00  | -18.08 |       | HORIZONTAL | Peak    |
| 6 | 12060.000 | 43.91      | 1.29   | 45.20 | 54.00  | -8.80  |       | HORIZONTAL | Average |
| 7 | 12060.000 | 55.14      | 1.29   | 56.43 | 74.00  | -17.57 |       | HORIZONTAL | Peak    |
| 8 | 17966.000 | 34.05      | 13.10  | 47.15 | 54.00  | -6.85  |       | HORIZONTAL | Average |
| 9 | 17966.000 | 45.45      | 13.10  | 58.55 | 74.00  | -15.45 |       | HORIZONTAL | Peak    |

### 802.11b low channel Chain0 Vertical



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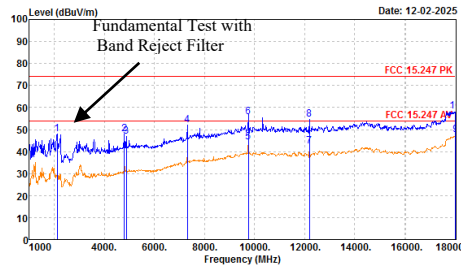
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b low channel 2412MHz Chain 0  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|   | Freq      | Read Level | Factor | Level | Limit  | Over   | Limit | Pol/Phase | Remark  |
|---|-----------|------------|--------|-------|--------|--------|-------|-----------|---------|
|   | MHz       | dBuV       |        | dBm   | dBuV/m | dBuV/m | dB    |           |         |
| 1 | 1493.000  | 69.26      | -16.36 | 52.90 | 74.00  | -21.10 |       | VERTICAL  | Peak    |
| 2 | 4824.000  | 52.56      | -7.46  | 45.10 | 74.00  | -28.90 |       | VERTICAL  | Peak    |
| 3 | 7236.000  | 49.49      | -2.97  | 46.52 | 74.00  | -27.48 |       | VERTICAL  | Peak    |
| 4 | 9648.000  | 46.01      | 0.78   | 46.79 | 54.00  | -7.21  |       | VERTICAL  | Average |
| 5 | 9648.000  | 56.07      | 0.78   | 56.85 | 74.00  | -17.15 |       | VERTICAL  | Peak    |
| 6 | 12060.000 | 43.43      | 1.29   | 44.72 | 54.00  | -9.28  |       | VERTICAL  | Average |
| 7 | 12060.000 | 54.03      | 1.29   | 55.32 | 74.00  | -18.68 |       | VERTICAL  | Peak    |
| 8 | 17966.000 | 33.79      | 13.30  | 47.09 | 54.00  | -6.91  |       | VERTICAL  | Average |
| 9 | 17966.000 | 45.42      | 13.30  | 58.72 | 74.00  | -15.28 |       | VERTICAL  | Peak    |

### 802.11b middle channel Chain0 Horizontal



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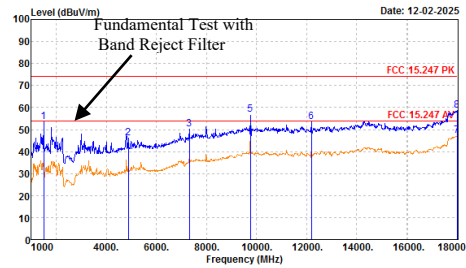
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b middle channel 2437MHz Chain 0  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over  | Remark                    |
|------|-----------|-------|--------|--------|-------|---------------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB    |                           |
| 1    | 2195.000  | 60.60 | -12.61 | 47.99  | 74.00 | -26.01 HORIZONTAL Peak    |
| 2    | 4791.000  | 55.65 | -7.52  | 48.13  | 74.00 | -25.87 HORIZONTAL Peak    |
| 3    | 4874.000  | 54.30 | -7.40  | 46.90  | 74.00 | -27.10 HORIZONTAL Peak    |
| 4    | 7311.000  | 54.77 | -2.73  | 52.04  | 74.00 | -21.96 HORIZONTAL Peak    |
| 5    | 9748.000  | 43.51 | 0.85   | 44.36  | 54.00 | -9.64 HORIZONTAL Average  |
| 6    | 9748.000  | 54.96 | 0.85   | 55.81  | 74.00 | -18.19 HORIZONTAL Peak    |
| 7    | 12185.000 | 40.97 | 1.54   | 42.51  | 54.00 | -11.49 HORIZONTAL Average |
| 8    | 12185.000 | 52.89 | 1.54   | 54.43  | 74.00 | -19.57 HORIZONTAL Peak    |
| 9    | 18000.000 | 33.92 | 13.51  | 47.43  | 54.00 | -6.57 HORIZONTAL Average  |
| 10   | 18000.000 | 44.94 | 13.51  | 58.45  | 74.00 | -15.55 HORIZONTAL Peak    |

### 802.11b middle channel Chain0 Vertical



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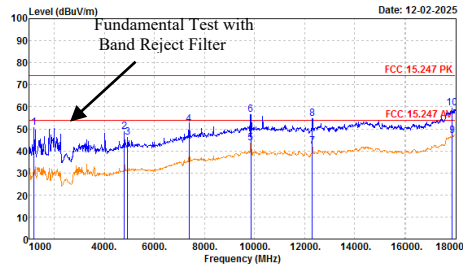
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b middle channel 2437MHz Chain 0  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over  | Remark                 |
|------|-----------|-------|--------|--------|-------|------------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB    |                        |
| 1    | 1493.000  | 69.96 | -16.36 | 53.60  | 74.00 | -20.40 VERTICAL Peak   |
| 2    | 4874.000  | 53.67 | -7.40  | 46.27  | 74.00 | -27.73 VERTICAL Peak   |
| 3    | 7311.000  | 52.75 | -2.73  | 50.02  | 74.00 | -23.98 VERTICAL Peak   |
| 4    | 9748.000  | 46.26 | 0.85   | 47.11  | 54.00 | -6.89 VERTICAL Average |
| 5    | 9748.000  | 55.89 | 0.85   | 56.74  | 74.00 | -17.26 VERTICAL Peak   |
| 6    | 12185.000 | 51.99 | 1.54   | 53.53  | 74.00 | -20.47 VERTICAL Peak   |
| 7    | 17983.000 | 34.08 | 13.30  | 47.38  | 54.00 | -6.62 VERTICAL Average |
| 8    | 17983.000 | 45.31 | 13.30  | 58.61  | 74.00 | -15.39 VERTICAL Peak   |

### 802.11b high channel Chain0 Horizontal



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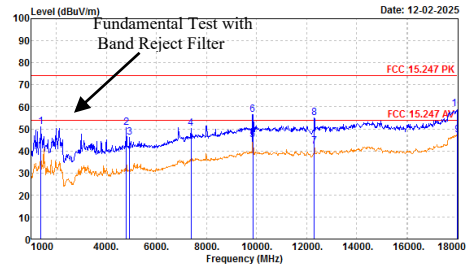
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b high channel 2462MHz Chain 0  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Level  | Factor | Level  | Limit  | Over       |         |
|--------------|-------|--------|--------|--------|--------|------------|---------|
| Freq         | Level | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark  |
| MHz          | dBuV  |        | dB/m   | dBuV/m | dB     |            |         |
| 1 1187.000   | 67.53 | -16.95 | 50.58  | 74.00  | -23.42 | HORIZONTAL | Peak    |
| 2 4791.000   | 56.29 | -7.52  | 48.77  | 74.00  | -25.23 | HORIZONTAL | Peak    |
| 3 4924.000   | 53.29 | -7.33  | 45.96  | 74.00  | -28.04 | HORIZONTAL | Peak    |
| 4 7386.000   | 54.63 | -2.50  | 52.13  | 74.00  | -21.87 | HORIZONTAL | Peak    |
| 5 9848.000   | 42.42 | 0.94   | 43.36  | 54.00  | -10.64 | HORIZONTAL | Average |
| 6 9848.000   | 55.69 | 0.94   | 56.63  | 74.00  | -17.37 | HORIZONTAL | Peak    |
| 7 12310.000  | 40.36 | 1.79   | 42.15  | 54.00  | -11.85 | HORIZONTAL | Average |
| 8 12310.000  | 52.93 | 1.79   | 54.72  | 74.00  | -19.28 | HORIZONTAL | Peak    |
| 9 17864.000  | 35.11 | 11.87  | 46.98  | 54.00  | -7.02  | HORIZONTAL | Average |
| 10 17864.000 | 47.37 | 11.87  | 59.24  | 74.00  | -14.76 | HORIZONTAL | Peak    |

### 802.11b high channel Chain0 Vertical



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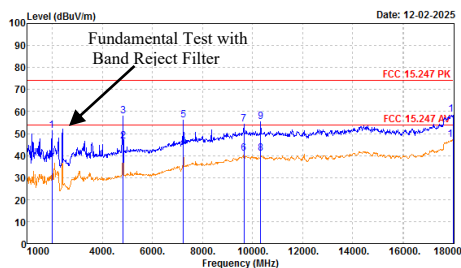
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b high channel 2462MHz Chain 0  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Level  | Factor | Level  | Limit  | Over      |         |
|--------------|-------|--------|--------|--------|--------|-----------|---------|
| Freq         | Level | Factor | Level  | Line   | Limit  | Pol/Phase | Remark  |
| MHz          | dBuV  |        | dB/m   | dBuV/m | dB     |           |         |
| 1 1374.000   | 67.55 | -16.59 | 50.96  | 74.00  | -23.04 | VERTICAL  | Peak    |
| 2 4791.000   | 58.12 | -7.52  | 50.60  | 74.00  | -23.40 | VERTICAL  | Peak    |
| 3 4924.000   | 53.48 | -7.33  | 46.15  | 74.00  | -27.85 | VERTICAL  | Peak    |
| 4 7386.000   | 52.55 | -2.50  | 50.05  | 74.00  | -23.95 | VERTICAL  | Peak    |
| 5 9848.000   | 43.92 | 0.94   | 44.86  | 54.00  | -9.14  | VERTICAL  | Average |
| 6 9848.000   | 55.48 | 0.94   | 56.34  | 74.00  | -17.66 | VERTICAL  | Peak    |
| 7 12310.000  | 40.20 | 1.79   | 41.99  | 54.00  | -12.81 | VERTICAL  | Average |
| 8 12310.000  | 53.12 | 1.79   | 54.91  | 74.00  | -19.09 | VERTICAL  | Peak    |
| 9 18000.000  | 33.68 | 13.51  | 47.19  | 54.00  | -6.81  | VERTICAL  | Average |
| 10 18000.000 | 45.48 | 13.51  | 58.99  | 74.00  | -15.81 | VERTICAL  | Peak    |

## 802.11b low channel Chain1 Horizontal



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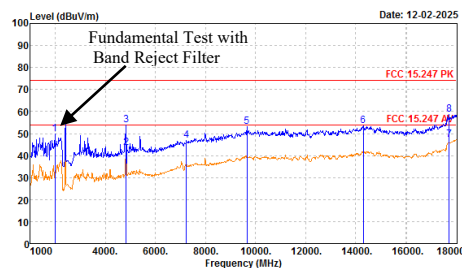
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b low channel 2412MHz Chain 1  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over  | Pol/Phase | Remark             |
|------|-----------|-------|--------|--------|-------|-----------|--------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB    |           |                    |
| 1    | 1986.000  | 65.09 | -13.81 | 51.28  | 74.00 | -22.72    | HORIZONTAL Peak    |
| 2    | 4824.000  | 53.92 | -7.46  | 46.46  | 54.00 | -7.54     | HORIZONTAL Average |
| 3    | 4824.000  | 65.29 | -7.46  | 57.83  | 74.00 | -16.17    | HORIZONTAL Peak    |
| 4    | 7236.000  | 46.79 | -2.97  | 43.82  | 54.00 | -10.18    | HORIZONTAL Average |
| 5    | 7236.000  | 59.05 | -2.97  | 56.08  | 74.00 | -17.92    | HORIZONTAL Peak    |
| 6    | 9648.000  | 40.34 | 0.78   | 41.12  | 54.00 | -12.88    | HORIZONTAL Average |
| 7    | 9648.000  | 53.63 | 0.78   | 54.41  | 74.00 | -19.59    | HORIZONTAL Peak    |
| 8    | 10316.000 | 39.92 | 0.97   | 40.89  | 54.00 | -13.11    | HORIZONTAL Average |
| 9    | 10316.000 | 54.34 | 0.97   | 55.31  | 74.00 | -18.69    | HORIZONTAL Peak    |
| 10   | 18000.000 | 33.82 | 13.51  | 47.33  | 54.00 | -6.67     | HORIZONTAL Average |
| 11   | 18000.000 | 45.34 | 13.51  | 58.85  | 74.00 | -15.15    | HORIZONTAL Peak    |

## 802.11b low channel Chain1 Vertical



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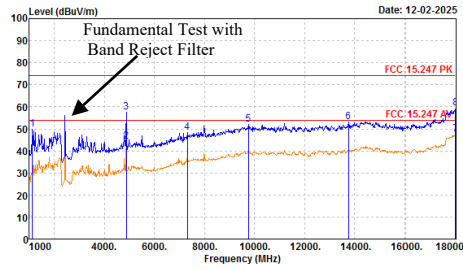
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b low channel 2412MHz Chain 1  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over  | Pol/Phase | Remark           |
|------|-----------|-------|--------|--------|-------|-----------|------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB    |           |                  |
| 1    | 1986.000  | 63.67 | -13.81 | 49.86  | 74.00 | -24.14    | VERTICAL Peak    |
| 2    | 4824.000  | 51.02 | -7.46  | 43.56  | 54.00 | -10.44    | VERTICAL Average |
| 3    | 4824.000  | 61.37 | -7.46  | 53.91  | 74.00 | -20.09    | VERTICAL Peak    |
| 4    | 7236.000  | 49.87 | -2.97  | 46.90  | 74.00 | -27.10    | VERTICAL Peak    |
| 5    | 9648.000  | 52.39 | 0.78   | 53.17  | 74.00 | -20.83    | VERTICAL Peak    |
| 6    | 14311.000 | 49.78 | 3.67   | 53.45  | 74.00 | -20.55    | VERTICAL Peak    |
| 7    | 17694.000 | 37.54 | 9.83   | 47.37  | 54.00 | -6.63     | VERTICAL Average |
| 8    | 17694.000 | 49.00 | 9.83   | 58.83  | 74.00 | -15.17    | VERTICAL Peak    |

### 802.11b middle channel Chain1 Horizontal



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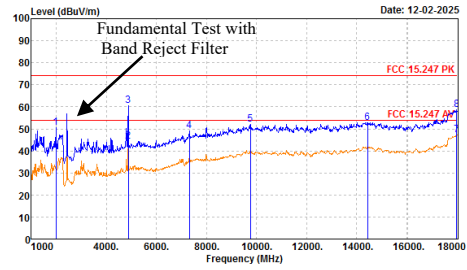
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b middle channel 2437MHz Chain 1  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Read        | Level | Factor | Level  | Limit  | Over   | Pol/Phase  | Remark  |
|-------------|-------|--------|--------|--------|--------|------------|---------|
| Freq        | dBuV  |        | dBuV/m | dBuV/m | dB     |            |         |
| MHz         | dBuV  |        | dBuV/m | dBuV/m | dB     |            |         |
| 1 1119.000  | 66.84 | -17.08 | 49.76  | 74.00  | -24.24 | HORIZONTAL | Peak    |
| 2 4874.000  | 51.72 | -7.40  | 44.32  | 54.00  | -9.68  | HORIZONTAL | Average |
| 3 4874.000  | 64.97 | -7.40  | 57.57  | 74.00  | -16.43 | HORIZONTAL | Peak    |
| 4 7311.000  | 51.24 | -2.73  | 48.51  | 74.00  | -25.49 | HORIZONTAL | Peak    |
| 5 9748.000  | 51.11 | 0.85   | 51.96  | 74.00  | -22.04 | HORIZONTAL | Peak    |
| 6 13750.000 | 50.08 | 3.22   | 53.30  | 74.00  | -20.70 | HORIZONTAL | Peak    |
| 7 18000.000 | 33.97 | 13.51  | 47.48  | 54.00  | -6.52  | HORIZONTAL | Average |
| 8 18000.000 | 45.76 | 13.51  | 59.27  | 74.00  | -14.73 | HORIZONTAL | Peak    |

### 802.11b middle channel Chain1 Vertical



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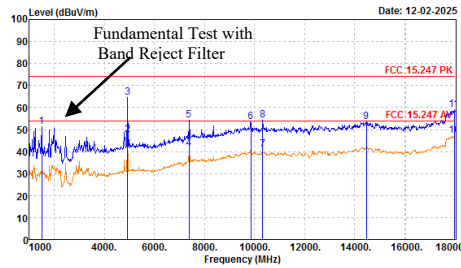
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b middle channel 2437MHz Chain 1  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Read        | Level | Factor | Level  | Limit  | Over   | Pol/Phase | Remark  |
|-------------|-------|--------|--------|--------|--------|-----------|---------|
| Freq        | dBuV  |        | dBuV/m | dBuV/m | dB     |           |         |
| MHz         | dBuV  |        | dBuV/m | dBuV/m | dB     |           |         |
| 1 1986.000  | 64.45 | -13.81 | 50.64  | 74.00  | -23.36 | VERTICAL  | Peak    |
| 2 4874.000  | 51.70 | -7.40  | 44.30  | 54.00  | -9.70  | VERTICAL  | Average |
| 3 4874.000  | 67.74 | -7.40  | 60.34  | 74.00  | -13.66 | VERTICAL  | Peak    |
| 4 7311.000  | 51.86 | -2.73  | 49.13  | 74.00  | -24.87 | VERTICAL  | Peak    |
| 5 9748.000  | 51.35 | 0.85   | 52.20  | 74.00  | -21.80 | VERTICAL  | Peak    |
| 6 14430.000 | 49.17 | 3.78   | 52.95  | 74.00  | -21.05 | VERTICAL  | Peak    |
| 7 17966.000 | 34.28 | 13.10  | 47.38  | 54.00  | -6.62  | VERTICAL  | Average |
| 8 17966.000 | 45.43 | 13.10  | 58.53  | 74.00  | -15.47 | VERTICAL  | Peak    |

### 802.11b high channel Chain1 Horizontal



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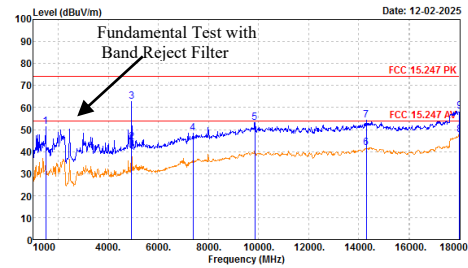
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b high channel 2462MHz Chain 1  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|    | Freq      | Read  |        | Limit |        | Over   | Pol/Phase  | Remark  |
|----|-----------|-------|--------|-------|--------|--------|------------|---------|
|    |           | MHz   | dBuV   | dB/m  | dBuV/m | dB     |            |         |
| 1  | 1493.000  | 67.75 | -16.36 | 51.39 | 74.00  | -22.61 | HORIZONTAL | Peak    |
| 2  | 4924.000  | 54.82 | -7.33  | 47.49 | 54.00  | -6.51  | HORIZONTAL | Average |
| 3  | 4924.000  | 71.87 | -7.33  | 64.54 | 74.00  | -9.46  | HORIZONTAL | Peak    |
| 4  | 7386.000  | 43.71 | -2.50  | 41.21 | 54.00  | -12.79 | HORIZONTAL | Average |
| 5  | 7386.000  | 56.74 | -2.50  | 54.24 | 74.00  | -19.76 | HORIZONTAL | Peak    |
| 6  | 9848.000  | 52.39 | 0.94   | 53.33 | 74.00  | -20.67 | HORIZONTAL | Peak    |
| 7  | 10316.000 | 39.91 | 0.97   | 40.88 | 54.00  | -13.12 | HORIZONTAL | Average |
| 8  | 10316.000 | 53.36 | 0.97   | 54.33 | 74.00  | -19.67 | HORIZONTAL | Peak    |
| 9  | 14464.000 | 49.77 | 3.80   | 53.57 | 74.00  | -20.43 | HORIZONTAL | Peak    |
| 10 | 17949.000 | 34.34 | 12.90  | 47.24 | 54.00  | -6.76  | HORIZONTAL | Average |
| 11 | 17949.000 | 46.24 | 12.90  | 59.14 | 74.00  | -14.86 | HORIZONTAL | Peak    |

### 802.11b high channel Chain1 Vertical



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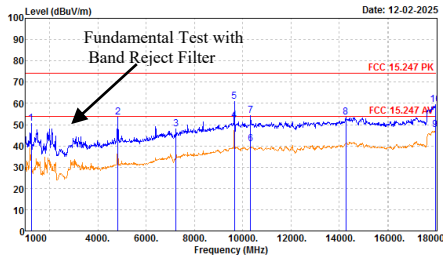
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b high channel 2462MHz Chain 1  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|   | Freq      | Read  |        | Limit |        | Over   | Pol/Phase | Remark  |
|---|-----------|-------|--------|-------|--------|--------|-----------|---------|
|   |           | MHz   | dBuV   | dB/m  | dBuV/m | dB     |           |         |
| 1 | 1493.000  | 67.59 | -16.36 | 51.23 | 74.00  | -22.77 | VERTICAL  | Peak    |
| 2 | 4924.000  | 51.44 | -7.33  | 44.11 | 54.00  | -9.89  | VERTICAL  | Average |
| 3 | 4924.000  | 70.02 | -7.33  | 62.69 | 74.00  | -11.31 | VERTICAL  | Peak    |
| 4 | 7386.000  | 50.92 | -2.50  | 48.42 | 74.00  | -25.58 | VERTICAL  | Peak    |
| 5 | 9848.000  | 52.03 | 0.94   | 52.97 | 74.00  | -21.03 | VERTICAL  | Peak    |
| 6 | 14311.000 | 38.13 | 3.67   | 41.80 | 54.00  | -12.20 | VERTICAL  | Average |
| 7 | 14311.000 | 50.60 | 3.67   | 54.27 | 74.00  | -19.73 | VERTICAL  | Peak    |
| 8 | 18000.000 | 34.00 | 13.51  | 47.51 | 54.00  | -6.49  | VERTICAL  | Average |
| 9 | 18000.000 | 44.91 | 13.51  | 58.42 | 74.00  | -15.58 | VERTICAL  | Peak    |

## 802.11b low channel Chain2 Horizontal



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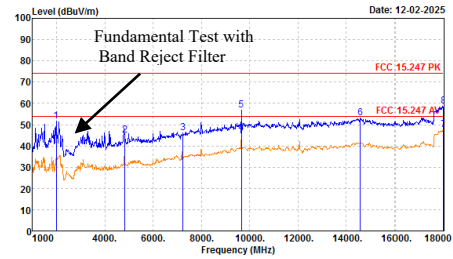
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b low channel 2412MHz Chain 2  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over  |        |                           |
|--------------|-------|--------|-------|--------|---------------------------|
| Freq         | Level | Factor | Level | Line   | Limit Pol/Phase Remark    |
| MHz          | dBuV  |        | dB/m  | dBuV/m | dB                        |
| 1 1238.000   | 67.30 | -16.86 | 50.44 | 74.00  | -23.56 HORIZONTAL Peak    |
| 2 4824.000   | 68.92 | -7.46  | 53.46 | 74.00  | -20.54 HORIZONTAL Peak    |
| 3 7236.000   | 58.83 | -2.97  | 47.86 | 74.00  | -26.14 HORIZONTAL Peak    |
| 4 9648.000   | 51.22 | 0.78   | 52.00 | 54.00  | -2.00 HORIZONTAL Average  |
| 5 9648.000   | 68.24 | 0.78   | 61.02 | 74.00  | -12.90 HORIZONTAL Peak    |
| 6 10316.000  | 39.81 | 0.97   | 40.78 | 54.00  | -13.22 HORIZONTAL Average |
| 7 10316.000  | 53.38 | 0.97   | 54.35 | 74.00  | -19.65 HORIZONTAL Peak    |
| 8 14277.000  | 49.71 | 3.65   | 53.36 | 74.00  | -20.64 HORIZONTAL Peak    |
| 9 17949.000  | 34.58 | 12.90  | 47.48 | 54.00  | -6.52 HORIZONTAL Average  |
| 10 17949.000 | 46.35 | 12.90  | 59.25 | 74.00  | -14.75 HORIZONTAL Peak    |

## 802.11b low channel Chain2 Vertical



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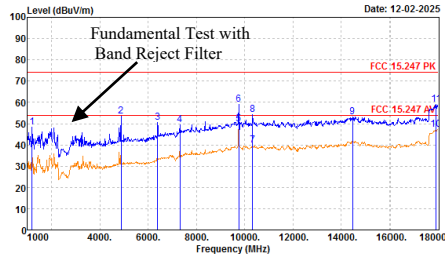
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b low channel 2412MHz Chain 2  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|             | Read  | Limit  | Over  |        |                        |
|-------------|-------|--------|-------|--------|------------------------|
| Freq        | Level | Factor | Level | Line   | Limit Pol/Phase Remark |
| MHz         | dBuV  |        | dB/m  | dBuV/m | dB                     |
| 1 1906.000  | 65.63 | -13.81 | 51.82 | 74.00  | -22.18 VERTICAL Peak   |
| 2 4824.000  | 52.50 | -7.46  | 45.04 | 74.00  | -28.96 VERTICAL Peak   |
| 3 7236.000  | 49.00 | -2.97  | 46.03 | 74.00  | -27.97 VERTICAL Peak   |
| 4 9648.000  | 45.19 | 0.78   | 45.97 | 54.00  | -8.03 VERTICAL Average |
| 5 9648.000  | 55.88 | 0.78   | 56.66 | 74.00  | -17.34 VERTICAL Peak   |
| 6 14583.000 | 49.33 | 3.74   | 53.07 | 74.00  | -20.93 VERTICAL Peak   |
| 7 18000.000 | 33.91 | 13.51  | 47.42 | 54.00  | -6.58 VERTICAL Average |
| 8 18000.000 | 45.22 | 13.51  | 58.73 | 74.00  | -15.27 VERTICAL Peak   |

## 802.11b middle channel Chain2 Horizontal



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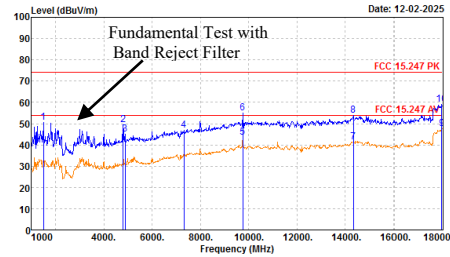
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b middle channel 2437MHz Chain 2  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Read | Level     | Factor | Level  | Limit  | Over  | Line   | Limit      | Pol/Phase | Remark |
|------|-----------|--------|--------|--------|-------|--------|------------|-----------|--------|
| Freq | dBuV      | dB/m   | dBuV/m | dBuV/m | dB    |        |            |           |        |
| 1    | 1187.000  | 65.23  | -16.95 | 48.28  | 74.00 | -25.72 | HORIZONTAL | Peak      |        |
| 2    | 4874.000  | 68.74  | -7.40  | 53.34  | 74.00 | -20.66 | HORIZONTAL | Peak      |        |
| 3    | 6389.000  | 55.86  | -5.15  | 50.71  | 74.00 | -23.29 | HORIZONTAL | Peak      |        |
| 4    | 7311.000  | 52.05  | -2.73  | 49.32  | 74.00 | -24.68 | HORIZONTAL | Peak      |        |
| 5    | 9748.000  | 49.13  | 0.85   | 49.98  | 54.00 | -4.02  | HORIZONTAL | Average   |        |
| 6    | 9748.000  | 58.33  | 0.85   | 59.18  | 74.00 | -14.82 | HORIZONTAL | Peak      |        |
| 7    | 10316.000 | 39.04  | 0.97   | 40.01  | 54.00 | -13.99 | HORIZONTAL | Average   |        |
| 8    | 10316.000 | 53.44  | 0.97   | 54.41  | 74.00 | -19.59 | HORIZONTAL | Peak      |        |
| 9    | 14464.000 | 49.35  | 3.80   | 53.15  | 74.00 | -20.85 | HORIZONTAL | Peak      |        |
| 10   | 17898.000 | 35.11  | 12.28  | 47.39  | 54.00 | -6.61  | HORIZONTAL | Average   |        |
| 11   | 17898.000 | 46.63  | 12.28  | 58.91  | 74.00 | -15.09 | HORIZONTAL | Peak      |        |

## 802.11b middle channel Chain2 Vertical



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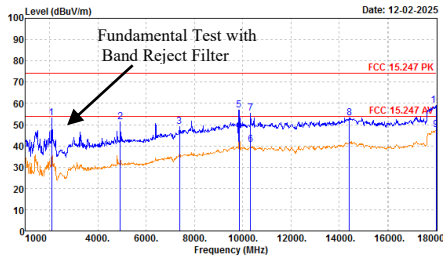
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b middle channel 2437MHz Chain 2  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Read | Level     | Factor | Level  | Limit  | Over  | Line   | Limit    | Pol/Phase | Remark |
|------|-----------|--------|--------|--------|-------|--------|----------|-----------|--------|
| Freq | dBuV      | dB/m   | dBuV/m | dBuV/m | dB    |        |          |           |        |
| 1    | 1493.000  | 66.93  | -16.36 | 50.57  | 74.00 | -23.43 | VERTICAL | Peak      |        |
| 2    | 4791.000  | 57.10  | -7.52  | 49.58  | 74.00 | -24.42 | VERTICAL | Peak      |        |
| 3    | 4874.000  | 52.43  | -7.40  | 45.03  | 74.00 | -28.97 | VERTICAL | Peak      |        |
| 4    | 7311.000  | 49.61  | -2.73  | 46.88  | 74.00 | -27.12 | VERTICAL | Peak      |        |
| 5    | 9748.000  | 42.83  | 0.85   | 43.68  | 54.00 | -10.32 | VERTICAL | Average   |        |
| 6    | 9748.000  | 54.26  | 0.85   | 55.11  | 74.00 | -18.09 | VERTICAL | Peak      |        |
| 7    | 14328.000 | 37.44  | 3.71   | 41.15  | 54.00 | -12.85 | VERTICAL | Average   |        |
| 8    | 14328.000 | 50.28  | 3.71   | 53.99  | 74.00 | -20.01 | VERTICAL | Peak      |        |
| 9    | 17966.000 | 34.40  | 13.10  | 47.50  | 54.00 | -6.50  | VERTICAL | Average   |        |
| 10   | 17966.000 | 45.90  | 13.10  | 59.00  | 74.00 | -15.00 | VERTICAL | Peak      |        |

## 802.11b high channel Chain2 Horizontal



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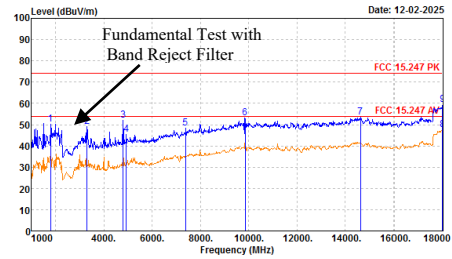
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b high channel 2462MHz Chain 2  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over   |       |
|--------------|-------|--------|--------|-------|
| Freq         | Level | Factor | Level  | Line  |
| MHz          | dBuV  |        | dBuV/m | dB    |
| 1 2088.000   | 65.78 | -12.78 | 53.00  | 74.00 |
| 2 4924.000   | 58.47 | -7.33  | 51.14  | 74.00 |
| 3 7386.000   | 51.75 | -2.50  | 49.25  | 74.00 |
| 4 9848.000   | 45.90 | 0.94   | 46.84  | 54.00 |
| 5 9848.000   | 55.95 | 0.94   | 56.89  | 74.00 |
| 6 10316.000  | 39.60 | 0.97   | 40.57  | 54.00 |
| 7 10316.000  | 54.52 | 0.97   | 55.49  | 74.00 |
| 8 14413.000  | 49.48 | 3.78   | 53.26  | 74.00 |
| 9 17983.000  | 34.24 | 13.30  | 47.54  | 54.00 |
| 10 17983.000 | 45.62 | 13.30  | 58.92  | 74.00 |

## 802.11b high channel Chain2 Vertical



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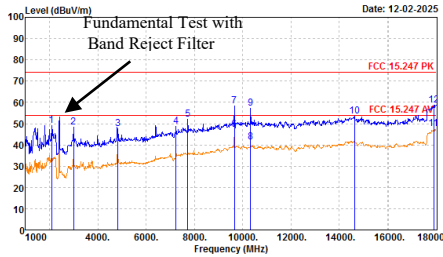
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b high channel 2462MHz Chain 2  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|             | Read  | Limit  | Over   |       |
|-------------|-------|--------|--------|-------|
| Freq        | Level | Factor | Level  | Line  |
| MHz         | dBuV  |        | dBuV/m | dB    |
| 1 1782.000  | 65.36 | -15.04 | 50.32  | 74.00 |
| 2 3295.000  | 58.73 | -9.73  | 49.00  | 74.00 |
| 3 4791.000  | 59.54 | -7.52  | 52.02  | 74.00 |
| 4 4924.000  | 52.65 | -7.33  | 45.32  | 74.00 |
| 5 7386.000  | 60.75 | -2.50  | 58.25  | 74.00 |
| 6 9848.000  | 52.08 | 0.94   | 53.02  | 74.00 |
| 7 14634.000 | 49.77 | 3.67   | 53.44  | 74.00 |
| 8 18000.000 | 33.92 | 13.51  | 47.43  | 54.00 |
| 9 18000.000 | 45.79 | 13.51  | 59.30  | 74.00 |

### 802.11b low channel Chain3 Horizontal



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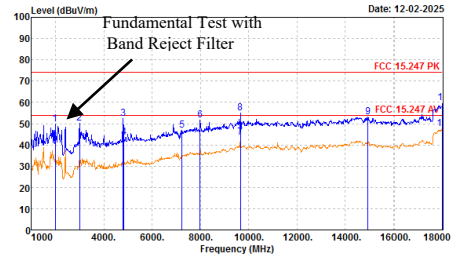
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b low channel 2412MHz Chain 3  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over   |       |
|--------------|-------|--------|--------|-------|
| Freq         | Level | Factor | Level  | Line  |
| MHz          | dBuV  | dB/m   | dBuV/m | dB    |
| 1 2088.000   | 61.88 | -12.78 | 49.10  | 74.00 |
| 2 2989.000   | 58.66 | -10.35 | 48.31  | 74.00 |
| 3 4824.000   | 54.91 | -7.46  | 47.45  | 74.00 |
| 4 7236.000   | 51.76 | -2.97  | 48.79  | 74.00 |
| 5 7715.000   | 53.95 | -1.97  | 51.98  | 74.00 |
| 6 9648.000   | 46.42 | 0.78   | 47.20  | 54.00 |
| 7 9648.000   | 57.38 | 0.78   | 58.16  | 74.00 |
| 8 10316.000  | 40.21 | 0.97   | 41.18  | 54.00 |
| 9 10316.000  | 56.09 | 0.97   | 57.06  | 74.00 |
| 10 14634.000 | 49.81 | 3.67   | 53.48  | 74.00 |
| 11 17881.000 | 35.41 | 12.07  | 47.48  | 54.00 |
| 12 17881.000 | 46.67 | 12.07  | 58.74  | 74.00 |

### 802.11b low channel Chain3 Vertical



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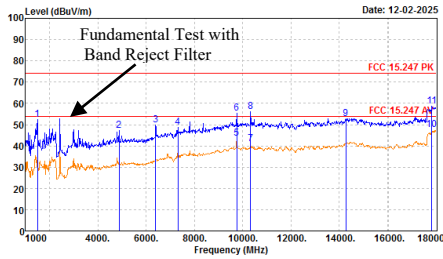
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b low channel 2412MHz Chain 3  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over   |       |
|--------------|-------|--------|--------|-------|
| Freq         | Level | Factor | Level  | Line  |
| MHz          | dBuV  | dB/m   | dBuV/m | dB    |
| 1 1986.000   | 63.55 | -13.81 | 49.74  | 74.00 |
| 2 2989.000   | 60.72 | -10.35 | 50.37  | 74.00 |
| 3 4791.000   | 60.01 | -7.52  | 52.49  | 74.00 |
| 4 4824.000   | 51.13 | -7.46  | 43.67  | 74.00 |
| 5 7236.000   | 49.97 | -2.97  | 47.00  | 74.00 |
| 6 7987.000   | 53.56 | -1.74  | 51.82  | 74.00 |
| 7 9648.000   | 42.79 | 0.78   | 43.57  | 54.00 |
| 8 9648.000   | 54.16 | 0.78   | 54.94  | 74.00 |
| 9 14940.000  | 49.74 | 3.28   | 53.02  | 74.00 |
| 10 18000.000 | 33.93 | 13.51  | 47.44  | 54.00 |
| 11 18000.000 | 46.33 | 13.51  | 59.84  | 74.00 |

### 802.11b middle channel Chain3 Horizontal



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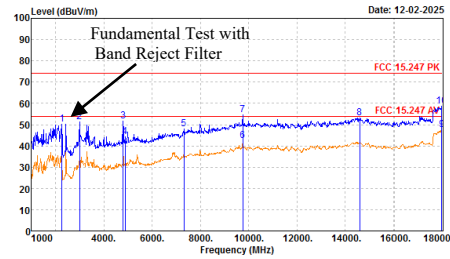
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b middle channel 2437MHz Chain 3  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|    | Freq      | Read Level | Factor | Level | Limit  | Over   | Line | Limit | Pol/Phase  | Remark  |
|----|-----------|------------|--------|-------|--------|--------|------|-------|------------|---------|
|    | MHz       | dBuV       |        | dB/m  | dBuV/m |        |      | dB    |            |         |
| 1  | 1493.000  | 68.93      | -16.36 | 52.57 | 74.00  | -21.43 |      |       | HORIZONTAL | Peak    |
| 2  | 4874.000  | 54.59      | -7.40  | 47.19 | 74.00  | -26.81 |      |       | HORIZONTAL | Peak    |
| 3  | 6389.000  | 55.00      | -5.15  | 49.85 | 74.00  | -24.15 |      |       | HORIZONTAL | Peak    |
| 4  | 7311.000  | 51.53      | -2.73  | 48.80 | 74.00  | -25.20 |      |       | HORIZONTAL | Peak    |
| 5  | 9748.000  | 42.77      | 0.85   | 43.62 | 54.00  | -10.38 |      |       | HORIZONTAL | Average |
| 6  | 9748.000  | 54.64      | 0.85   | 55.49 | 74.00  | -18.51 |      |       | HORIZONTAL | Peak    |
| 7  | 10316.000 | 48.04      | 0.97   | 41.01 | 54.00  | -12.99 |      |       | HORIZONTAL | Average |
| 8  | 10316.000 | 55.27      | 0.97   | 56.24 | 74.00  | -17.76 |      |       | HORIZONTAL | Peak    |
| 9  | 14277.000 | 49.18      | 3.65   | 52.83 | 74.00  | -21.17 |      |       | HORIZONTAL | Peak    |
| 10 | 17796.000 | 36.44      | 11.07  | 47.51 | 54.00  | -6.49  |      |       | HORIZONTAL | Average |
| 11 | 17796.000 | 47.75      | 11.07  | 58.82 | 74.00  | -15.18 |      |       | HORIZONTAL | Peak    |

### 802.11b middle channel Chain3 Vertical



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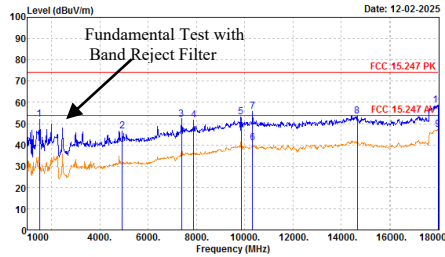
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b middle channel 2437MHz Chain 3  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|    | Freq      | Read Level | Factor | Level | Limit  | Over   | Line | Limit | Pol/Phase | Remark  |
|----|-----------|------------|--------|-------|--------|--------|------|-------|-----------|---------|
|    | MHz       | dBuV       |        | dB/m  | dBuV/m |        |      | dB    |           |         |
| 1  | 2258.000  | 62.35      | -12.11 | 50.24 | 74.00  | -23.76 |      |       | VERTICAL  | Peak    |
| 2  | 2989.000  | 61.60      | -10.35 | 51.25 | 74.00  | -22.75 |      |       | VERTICAL  | Peak    |
| 3  | 4791.000  | 59.23      | -7.52  | 51.71 | 74.00  | -22.29 |      |       | VERTICAL  | Peak    |
| 4  | 4874.000  | 51.71      | -7.40  | 44.31 | 74.00  | -29.69 |      |       | VERTICAL  | Peak    |
| 5  | 7311.000  | 50.84      | -2.73  | 48.11 | 74.00  | -25.89 |      |       | VERTICAL  | Peak    |
| 6  | 9748.000  | 41.60      | 0.85   | 42.45 | 54.00  | -11.55 |      |       | VERTICAL  | Average |
| 7  | 9748.000  | 53.81      | 0.85   | 54.66 | 74.00  | -19.34 |      |       | VERTICAL  | Peak    |
| 8  | 14680.000 | 49.45      | 3.71   | 53.16 | 74.00  | -20.84 |      |       | VERTICAL  | Peak    |
| 9  | 17966.000 | 34.34      | 13.10  | 47.44 | 54.00  | -6.56  |      |       | VERTICAL  | Average |
| 10 | 17966.000 | 45.71      | 13.10  | 58.81 | 74.00  | -15.19 |      |       | VERTICAL  | Peak    |

### 802.11b high channel Chain3 Horizontal



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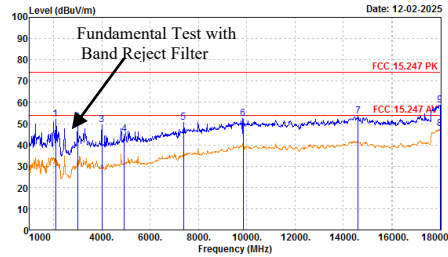
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b high channel 2462MHz Chain 3  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq         | Read  |        | Limit  |        | Over   | Line | Limit Pol/Phase | Remark  |
|--------------|-------|--------|--------|--------|--------|------|-----------------|---------|
|              | Level | Factor | Level  | Line   |        |      |                 |         |
| MHz          | dBuV  | dB/m   | dBuV/m | dBuV/m | dB     |      |                 |         |
| 1 1493.000   | 68.35 | -16.36 | 51.99  | 74.00  | -22.01 |      | HORIZONTAL      | Peak    |
| 2 4924.000   | 53.75 | -7.33  | 46.40  | 74.00  | -27.60 |      | HORIZONTAL      | Peak    |
| 3 7386.000   | 54.35 | -2.50  | 51.85  | 74.00  | -22.15 |      | HORIZONTAL      | Peak    |
| 4 7885.000   | 53.60 | -1.83  | 51.77  | 74.00  | -22.23 |      | HORIZONTAL      | Peak    |
| 5 9848.000   | 52.21 | 0.94   | 53.15  | 74.00  | -20.85 |      | HORIZONTAL      | Peak    |
| 6 10316.000  | 40.01 | 0.97   | 40.98  | 54.00  | -13.02 |      | HORIZONTAL      | Average |
| 7 10316.000  | 54.62 | 0.97   | 55.59  | 74.00  | -18.41 |      | HORIZONTAL      | Peak    |
| 8 14668.000  | 49.79 | 3.62   | 53.41  | 74.00  | -20.59 |      | HORIZONTAL      | Peak    |
| 9 17983.000  | 34.11 | 13.30  | 47.41  | 54.00  | -6.59  |      | HORIZONTAL      | Average |
| 10 17983.000 | 45.37 | 13.30  | 58.67  | 74.00  | -15.33 |      | HORIZONTAL      | Peak    |

### 802.11b high channel Chain3 Vertical



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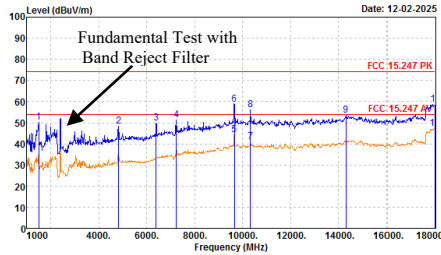
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11b high channel 2462MHz Chain 3  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq        | Read  |        | Limit  |        | Over   | Line | Limit Pol/Phase | Remark  |
|-------------|-------|--------|--------|--------|--------|------|-----------------|---------|
|             | Level | Factor | Level  | Line   |        |      |                 |         |
| MHz         | dBuV  | dB/m   | dBuV/m | dBuV/m | dB     |      |                 |         |
| 1 2088.000  | 64.84 | -12.78 | 52.06  | 74.00  | -21.94 |      | VERTICAL        | Peak    |
| 2 2989.000  | 60.75 | -10.35 | 50.40  | 74.00  | -23.60 |      | VERTICAL        | Peak    |
| 3 3992.000  | 58.12 | -9.61  | 48.51  | 74.00  | -25.49 |      | VERTICAL        | Peak    |
| 4 4924.000  | 52.21 | -7.33  | 44.88  | 74.00  | -29.12 |      | VERTICAL        | Peak    |
| 5 7386.000  | 53.07 | -2.50  | 50.57  | 74.00  | -23.43 |      | VERTICAL        | Peak    |
| 6 9848.000  | 51.30 | 0.94   | 52.24  | 74.00  | -21.70 |      | VERTICAL        | Peak    |
| 7 14617.000 | 49.79 | 3.69   | 53.48  | 74.00  | -20.52 |      | VERTICAL        | Peak    |
| 8 17983.000 | 34.18 | 13.30  | 47.48  | 54.00  | -6.52  |      | VERTICAL        | Average |
| 9 17983.000 | 45.26 | 13.30  | 58.56  | 74.00  | -15.44 |      | VERTICAL        | Peak    |

## 802.11g low channel Horizontal



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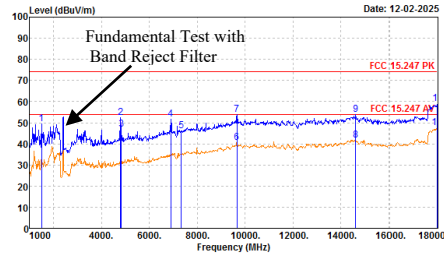
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11g low channel 2412MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over  | Pol/Phase | Remark             |
|------|-----------|-------|--------|--------|-------|-----------|--------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB    |           |                    |
| 1    | 1493.000  | 66.45 | -16.36 | 50.09  | 74.00 | -23.91    | HORIZONTAL Peak    |
| 2    | 4824.000  | 55.63 | -7.46  | 48.17  | 74.00 | -25.83    | HORIZONTAL Peak    |
| 3    | 6389.000  | 55.04 | -5.15  | 49.89  | 74.00 | -24.11    | HORIZONTAL Peak    |
| 4    | 7336.000  | 54.38 | -2.97  | 51.41  | 74.00 | -22.59    | HORIZONTAL Peak    |
| 5    | 9648.000  | 43.57 | 0.78   | 44.35  | 54.00 | -9.65     | HORIZONTAL Average |
| 6    | 9648.000  | 57.97 | 0.78   | 58.75  | 74.00 | -15.25    | HORIZONTAL Peak    |
| 7    | 10316.000 | 39.82 | 0.97   | 40.79  | 54.00 | -13.21    | HORIZONTAL Average |
| 8    | 10316.000 | 55.28 | 0.97   | 56.25  | 74.00 | -17.75    | HORIZONTAL Peak    |
| 9    | 14311.000 | 49.73 | 3.67   | 53.40  | 74.00 | -20.60    | HORIZONTAL Peak    |
| 10   | 18000.000 | 33.83 | 13.51  | 47.34  | 54.00 | -6.66     | HORIZONTAL Average |
| 11   | 18000.000 | 45.05 | 13.51  | 58.56  | 74.00 | -15.44    | HORIZONTAL Peak    |

## 802.11g low channel Vertical



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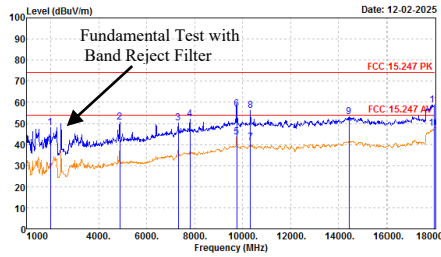
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11g low channel 2412MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over  | Pol/Phase | Remark           |
|------|-----------|-------|--------|--------|-------|-----------|------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB    |           |                  |
| 1    | 1493.000  | 65.73 | -16.36 | 49.37  | 74.00 | -24.63    | VERTICAL Peak    |
| 2    | 4791.000  | 59.90 | -7.52  | 52.38  | 74.00 | -21.62    | VERTICAL Peak    |
| 3    | 4824.000  | 54.20 | -7.46  | 46.74  | 74.00 | -27.26    | VERTICAL Peak    |
| 4    | 6899.000  | 55.47 | -3.91  | 51.56  | 74.00 | -22.44    | VERTICAL Peak    |
| 5    | 7326.000  | 48.86 | -2.69  | 46.17  | 74.00 | -27.83    | VERTICAL Peak    |
| 6    | 9648.000  | 39.95 | 0.78   | 40.73  | 54.00 | -13.27    | VERTICAL Average |
| 7    | 9648.000  | 53.15 | 0.78   | 53.93  | 74.00 | -20.07    | VERTICAL Peak    |
| 8    | 14617.000 | 37.94 | 3.69   | 41.63  | 54.00 | -12.37    | VERTICAL Average |
| 9    | 14617.000 | 50.29 | 3.69   | 53.98  | 74.00 | -20.02    | VERTICAL Peak    |
| 10   | 18000.000 | 33.95 | 13.51  | 47.46  | 54.00 | -6.54     | VERTICAL Average |
| 11   | 18000.000 | 45.37 | 13.51  | 58.88  | 74.00 | -15.12    | VERTICAL Peak    |

### 802.11g middle channel Horizontal



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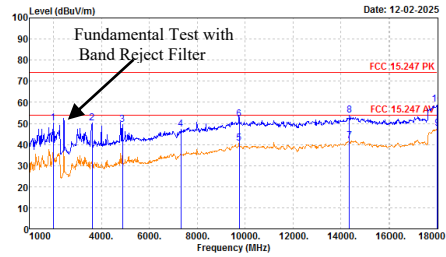
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11g middle channel 2437MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over   |       |
|--------------|-------|--------|--------|-------|
| Freq         | Level | Factor | Level  | Line  |
| MHz          | dBuV  | dB/m   | dBuV/m | dB    |
| 1 1985.000   | 61.70 | -13.81 | 47.89  | 74.00 |
| 2 4874.000   | 58.06 | -7.40  | 50.66  | 74.00 |
| 3 7311.000   | 53.01 | -2.73  | 50.28  | 74.00 |
| 4 7880.000   | 53.77 | -1.89  | 51.88  | 74.00 |
| 5 9748.000   | 42.63 | 0.85   | 43.48  | 54.00 |
| 6 9748.000   | 55.90 | 0.85   | 56.75  | 74.00 |
| 7 10316.000  | 39.83 | 0.97   | 40.80  | 54.00 |
| 8 10316.000  | 55.11 | 0.97   | 56.08  | 74.00 |
| 9 14430.000  | 49.29 | 3.78   | 53.07  | 74.00 |
| 10 17966.000 | 34.34 | 13.10  | 47.44  | 54.00 |
| 11 17966.000 | 45.64 | 13.10  | 58.74  | 74.00 |

### 802.11g middle channel Vertical



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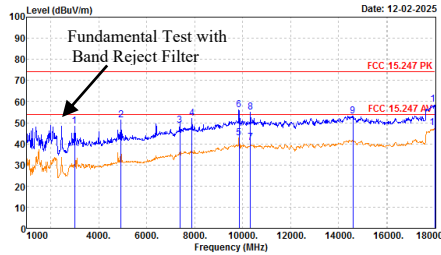
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11g middle channel 2437MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over   |       |
|--------------|-------|--------|--------|-------|
| Freq         | Level | Factor | Level  | Line  |
| MHz          | dBuV  | dB/m   | dBuV/m | dB    |
| 1 1985.000   | 64.04 | -13.81 | 50.23  | 74.00 |
| 2 3601.000   | 59.45 | -9.10  | 50.35  | 74.00 |
| 3 4874.000   | 56.78 | -7.40  | 49.38  | 74.00 |
| 4 7311.000   | 49.90 | -2.73  | 47.17  | 74.00 |
| 5 9748.000   | 39.75 | 0.85   | 40.60  | 54.00 |
| 6 9748.000   | 51.17 | 0.85   | 52.02  | 74.00 |
| 7 14345.000  | 37.88 | 3.71   | 41.59  | 54.00 |
| 8 14345.000  | 50.24 | 3.71   | 53.95  | 74.00 |
| 9 18000.000  | 34.12 | 13.51  | 47.63  | 54.00 |
| 10 18000.000 | 45.58 | 13.51  | 59.09  | 74.00 |

## 802.11g high channel Horizontal



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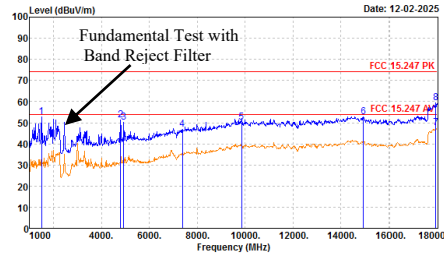
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11g high channel 2462MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       |        | Limit  |        |        | Remark             |
|------|-----------|-------|--------|--------|--------|--------|--------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dBuV/m | dB     |                    |
| 1    | 2989.000  | 58.84 | -10.35 | 48.49  | 74.00  | -25.51 | HORIZONTAL Peak    |
| 2    | 4924.000  | 58.50 | -7.33  | 51.17  | 74.00  | -22.83 | HORIZONTAL Peak    |
| 3    | 7386.000  | 51.23 | -2.58  | 48.73  | 74.00  | -25.27 | HORIZONTAL Peak    |
| 4    | 7885.000  | 51.82 | -1.83  | 51.99  | 74.00  | -22.01 | HORIZONTAL Peak    |
| 5    | 9848.000  | 41.71 | 0.94   | 42.65  | 54.00  | -11.35 | HORIZONTAL Average |
| 6    | 9848.000  | 55.04 | 0.94   | 55.98  | 74.00  | -18.02 | HORIZONTAL Peak    |
| 7    | 18316.000 | 39.78 | 0.97   | 40.75  | 54.00  | -13.25 | HORIZONTAL Average |
| 8    | 18316.000 | 54.16 | 0.97   | 55.13  | 74.00  | -18.87 | HORIZONTAL Peak    |
| 9    | 14600.000 | 49.58 | 3.71   | 53.29  | 74.00  | -20.71 | HORIZONTAL Peak    |
| 10   | 18000.000 | 34.14 | 13.51  | 47.65  | 54.00  | -6.35  | HORIZONTAL Average |
| 11   | 18000.000 | 45.15 | 13.51  | 58.66  | 74.00  | -15.34 | HORIZONTAL Peak    |

## 802.11g high channel Vertical



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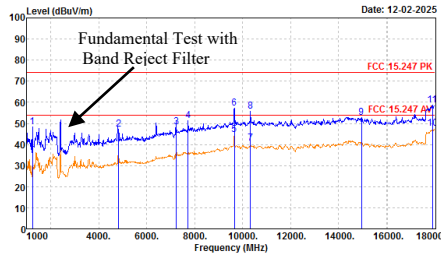
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11g high channel 2462MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       |        | Limit  |        |        | Remark           |
|------|-----------|-------|--------|--------|--------|--------|------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dBuV/m | dB     |                  |
| 1    | 1493.000  | 69.28 | -16.36 | 52.92  | 74.00  | -21.08 | VERTICAL Peak    |
| 2    | 4791.000  | 58.76 | -7.52  | 51.24  | 74.00  | -22.76 | VERTICAL Peak    |
| 3    | 4924.000  | 57.56 | -7.33  | 50.23  | 74.00  | -23.77 | VERTICAL Peak    |
| 4    | 7386.000  | 49.47 | -2.58  | 46.97  | 74.00  | -27.03 | VERTICAL Peak    |
| 5    | 9848.000  | 49.25 | 0.94   | 50.19  | 74.00  | -23.81 | VERTICAL Peak    |
| 6    | 14940.000 | 49.65 | 3.28   | 52.93  | 74.00  | -21.07 | VERTICAL Peak    |
| 7    | 17932.000 | 34.63 | 12.69  | 47.32  | 54.00  | -6.48  | VERTICAL Average |
| 8    | 17932.000 | 46.58 | 12.69  | 59.27  | 74.00  | -14.73 | VERTICAL Peak    |

### 802.11n20 low channel Horizontal



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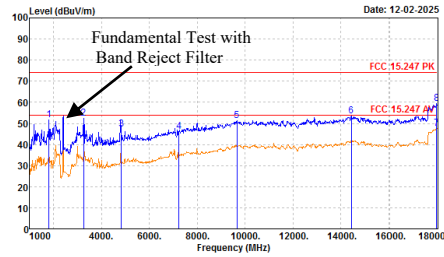
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11n20 low channel 2412MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over   |       |
|--------------|-------|--------|--------|-------|
| Freq         | Level | Factor | Level  | Line  |
| MHz          | dBuV  | dB/m   | dBuV/m | dB    |
| 1 1238.000   | 65.24 | -16.86 | 48.38  | 74.00 |
| 2 4824.000   | 54.57 | -7.46  | 47.11  | 74.00 |
| 3 7236.000   | 51.28 | -2.97  | 48.31  | 74.00 |
| 4 7715.000   | 53.35 | -1.97  | 51.38  | 74.00 |
| 5 9648.000   | 43.70 | 0.78   | 44.48  | 54.00 |
| 6 9648.000   | 56.45 | 0.78   | 57.23  | 74.00 |
| 7 10316.000  | 39.58 | 0.97   | 40.55  | 54.00 |
| 8 10316.000  | 54.85 | 0.97   | 55.82  | 74.00 |
| 9 14957.000  | 49.59 | 3.25   | 52.84  | 74.00 |
| 10 17881.000 | 35.61 | 12.07  | 47.68  | 54.00 |
| 11 17881.000 | 46.51 | 12.07  | 58.58  | 74.00 |

### 802.11n20 low channel Vertical



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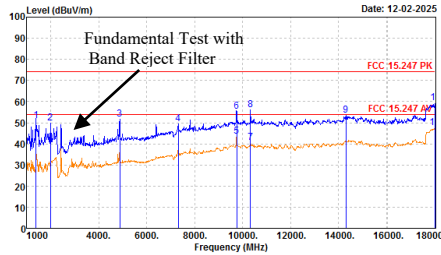
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11n20 low channel 2412MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|             | Read  | Limit  | Over   |       |
|-------------|-------|--------|--------|-------|
| Freq        | Level | Factor | Level  | Line  |
| MHz         | dBuV  | dB/m   | dBuV/m | dB    |
| 1 1799.000  | 66.51 | -14.96 | 51.55  | 74.00 |
| 2 3244.000  | 62.35 | -9.85  | 52.50  | 74.00 |
| 3 4824.000  | 54.72 | -7.46  | 47.26  | 74.00 |
| 4 7236.000  | 49.17 | -2.97  | 46.20  | 74.00 |
| 5 9648.000  | 50.47 | 0.78   | 51.25  | 74.00 |
| 6 14430.000 | 49.77 | 3.78   | 53.55  | 74.00 |
| 7 17966.000 | 34.53 | 13.10  | 47.63  | 54.00 |
| 8 17966.000 | 46.13 | 13.10  | 59.23  | 74.00 |

## 802.11n20 middle channel Horizontal



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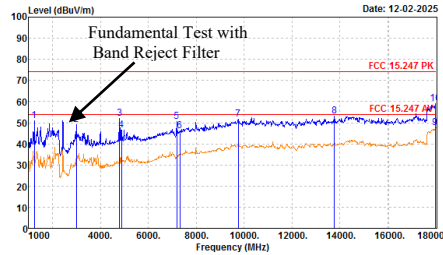
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11n20 middle channel 2437MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over  | Pol/Phase | Remark             |
|------|-----------|-------|--------|--------|-------|-----------|--------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB    |           |                    |
| 1    | 1374.000  | 67.34 | -16.59 | 50.75  | 74.00 | -23.25    | HORIZONTAL Peak    |
| 2    | 1986.000  | 63.72 | -13.81 | 49.91  | 74.00 | -24.09    | HORIZONTAL Peak    |
| 3    | 4874.000  | 58.99 | -7.48  | 51.59  | 74.00 | -22.41    | HORIZONTAL Peak    |
| 4    | 7311.000  | 52.35 | -2.73  | 49.62  | 74.00 | -24.38    | HORIZONTAL Peak    |
| 5    | 9748.000  | 42.80 | 0.85   | 43.65  | 54.00 | -10.35    | HORIZONTAL Average |
| 6    | 9748.000  | 54.67 | 0.85   | 55.52  | 74.00 | -18.48    | HORIZONTAL Peak    |
| 7    | 18316.000 | 39.53 | 0.97   | 40.50  | 54.00 | -13.50    | HORIZONTAL Average |
| 8    | 18316.000 | 55.29 | 0.97   | 56.26  | 74.00 | -17.74    | HORIZONTAL Peak    |
| 9    | 14311.000 | 49.77 | 3.67   | 53.44  | 74.00 | -20.56    | HORIZONTAL Peak    |
| 10   | 18000.000 | 34.15 | 13.51  | 47.66  | 54.00 | -6.34     | HORIZONTAL Average |
| 11   | 18000.000 | 45.74 | 13.51  | 59.25  | 74.00 | -14.75    | HORIZONTAL Peak    |

## 802.11n20 middle channel Vertical



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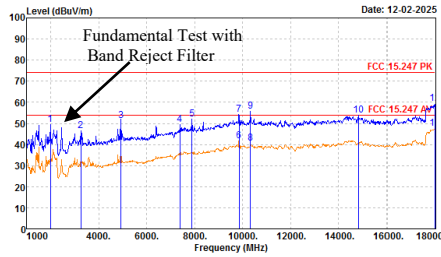
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11n20 middle channel 2437MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over  | Pol/Phase | Remark           |
|------|-----------|-------|--------|--------|-------|-----------|------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB    |           |                  |
| 1    | 1238.000  | 67.60 | -16.86 | 50.74  | 74.00 | -23.26    | VERTICAL Peak    |
| 2    | 2989.000  | 59.53 | -10.35 | 49.18  | 74.00 | -24.82    | VERTICAL Peak    |
| 3    | 4791.000  | 59.53 | -7.52  | 52.01  | 74.00 | -21.99    | VERTICAL Peak    |
| 4    | 4874.000  | 53.94 | -7.40  | 46.54  | 74.00 | -27.46    | VERTICAL Peak    |
| 5    | 7188.000  | 53.76 | -3.13  | 50.63  | 74.00 | -23.37    | VERTICAL Peak    |
| 6    | 7311.000  | 48.93 | -2.73  | 46.20  | 74.00 | -27.80    | VERTICAL Peak    |
| 7    | 9748.000  | 50.83 | 0.85   | 51.68  | 74.00 | -22.32    | VERTICAL Peak    |
| 8    | 13767.000 | 49.73 | 3.23   | 52.96  | 74.00 | -21.04    | VERTICAL Peak    |
| 9    | 17949.000 | 34.79 | 12.90  | 47.69  | 54.00 | -6.31     | VERTICAL Average |
| 10   | 17949.000 | 46.15 | 12.90  | 59.05  | 74.00 | -14.95    | VERTICAL Peak    |

### 802.11n20 high channel Horizontal



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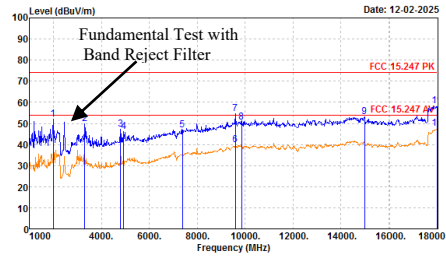
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11n20 high channel 2462MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over   |        |                           |
|--------------|-------|--------|--------|--------|---------------------------|
| Freq         | Level | Factor | Level  | Line   | Limit Pol/Phase Remark    |
| MHz          | dBuV  | dB/m   | dBuV/m | dBuV/m | dB                        |
| 1 1986.000   | 63.37 | -13.81 | 49.56  | 74.00  | -24.44 HORIZONTAL Peak    |
| 2 3244.000   | 56.25 | -9.85  | 46.40  | 74.00  | -27.60 HORIZONTAL Peak    |
| 3 4924.000   | 58.66 | -7.33  | 51.33  | 74.00  | -22.67 HORIZONTAL Peak    |
| 4 7386.000   | 51.91 | -2.50  | 49.41  | 74.00  | -24.59 HORIZONTAL Peak    |
| 5 7885.000   | 53.05 | -1.83  | 52.02  | 74.00  | -21.98 HORIZONTAL Peak    |
| 6 9848.000   | 48.84 | 0.94   | 41.78  | 54.00  | -12.22 HORIZONTAL Average |
| 7 9848.000   | 53.39 | 0.94   | 54.33  | 74.00  | -19.67 HORIZONTAL Peak    |
| 8 18316.000  | 39.72 | 0.97   | 40.69  | 54.00  | -13.31 HORIZONTAL Average |
| 9 18316.000  | 54.81 | 0.97   | 55.78  | 74.00  | -18.22 HORIZONTAL Peak    |
| 10 14821.000 | 50.31 | 3.43   | 53.74  | 74.00  | -20.26 HORIZONTAL Peak    |
| 11 17983.000 | 34.33 | 13.30  | 47.63  | 54.00  | -6.37 HORIZONTAL Average  |
| 12 17983.000 | 46.06 | 13.30  | 59.36  | 74.00  | -14.64 HORIZONTAL Peak    |

### 802.11n20 high channel Vertical



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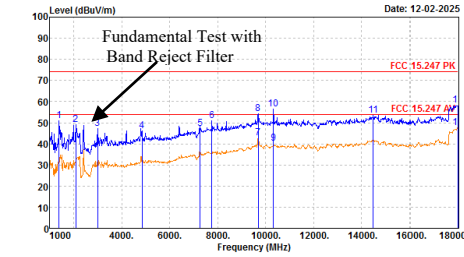
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11n20 high channel 2462MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over   |        |                         |
|--------------|-------|--------|--------|--------|-------------------------|
| Freq         | Level | Factor | Level  | Line   | Limit Pol/Phase Remark  |
| MHz          | dBuV  | dB/m   | dBuV/m | dBuV/m | dB                      |
| 1 1986.000   | 65.77 | -13.81 | 51.96  | 74.00  | -22.04 VERTICAL Peak    |
| 2 3295.000   | 59.40 | -9.73  | 49.67  | 74.00  | -24.33 VERTICAL Peak    |
| 3 4791.000   | 54.60 | -7.52  | 47.08  | 74.00  | -26.92 VERTICAL Peak    |
| 4 4924.000   | 53.56 | -7.33  | 46.23  | 74.00  | -27.77 VERTICAL Peak    |
| 5 7386.000   | 49.37 | -2.50  | 46.87  | 74.00  | -27.13 VERTICAL Peak    |
| 6 9585.000   | 39.25 | 0.73   | 39.98  | 54.00  | -14.02 VERTICAL Average |
| 7 9585.000   | 53.87 | 0.73   | 54.60  | 74.00  | -19.40 VERTICAL Peak    |
| 8 9848.000   | 49.61 | 0.94   | 50.55  | 74.00  | -23.45 VERTICAL Peak    |
| 9 14991.000  | 49.81 | 3.21   | 53.02  | 74.00  | -20.98 VERTICAL Peak    |
| 10 17983.000 | 34.31 | 13.30  | 47.61  | 54.00  | -6.39 VERTICAL Average  |
| 11 17983.000 | 45.12 | 13.30  | 58.42  | 74.00  | -15.58 VERTICAL Peak    |

## 802.11n40 low channel Horizontal



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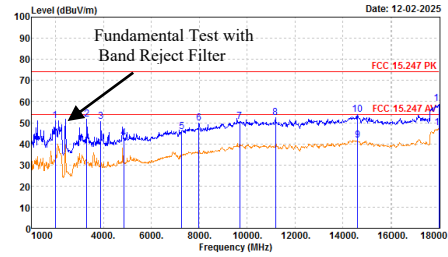
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11n40 low channel 2422MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Pol/Phase | Remark                    |
|------|-----------|-------|--------|--------|-----------|---------------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB        |                           |
| 1    | 1374.000  | 67.40 | -16.59 | 50.81  | 74.00     | -23.19 HORIZONTAL Peak    |
| 2    | 2088.000  | 61.68 | -12.78 | 48.90  | 74.00     | -25.10 HORIZONTAL Peak    |
| 3    | 2989.000  | 57.52 | -10.35 | 47.17  | 74.00     | -26.83 HORIZONTAL Peak    |
| 4    | 4844.000  | 53.52 | -7.44  | 46.08  | 74.00     | -27.92 HORIZONTAL Peak    |
| 5    | 7266.000  | 50.18 | -2.88  | 47.30  | 74.00     | -26.70 HORIZONTAL Peak    |
| 6    | 7749.000  | 52.90 | -1.94  | 50.96  | 74.00     | -23.04 HORIZONTAL Peak    |
| 7    | 9688.000  | 41.97 | 0.61   | 42.78  | 54.00     | -11.22 HORIZONTAL Average |
| 8    | 9688.000  | 53.38 | 0.61   | 54.19  | 74.00     | -19.81 HORIZONTAL Peak    |
| 9    | 10316.000 | 39.23 | 0.97   | 40.20  | 54.00     | -13.80 HORIZONTAL Average |
| 10   | 10316.000 | 55.48 | 0.97   | 56.45  | 74.00     | -17.55 HORIZONTAL Peak    |
| 11   | 14482.000 | 49.79 | 3.81   | 53.60  | 74.00     | -20.40 HORIZONTAL Peak    |
| 12   | 18000.000 | 34.07 | 13.51  | 47.58  | 54.00     | -6.42 HORIZONTAL Average  |
| 13   | 18000.000 | 44.74 | 13.51  | 58.25  | 74.00     | -15.75 HORIZONTAL Peak    |

## 802.11n40 low channel Vertical



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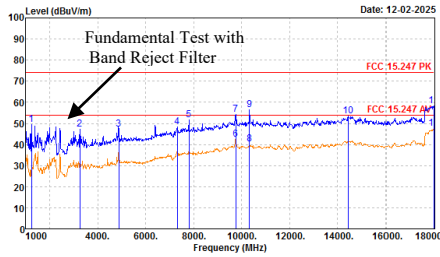
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11n40 low channel 2422MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Pol/Phase | Remark                  |
|------|-----------|-------|--------|--------|-----------|-------------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB        |                         |
| 1    | 1986.000  | 64.77 | -13.81 | 50.96  | 74.00     | -23.04 VERTICAL Peak    |
| 2    | 3295.000  | 61.44 | -9.73  | 51.71  | 74.00     | -22.29 VERTICAL Peak    |
| 3    | 3890.000  | 59.27 | -8.76  | 50.51  | 74.00     | -23.49 VERTICAL Peak    |
| 4    | 4844.000  | 50.28 | -7.44  | 42.84  | 74.00     | -31.16 VERTICAL Peak    |
| 5    | 7266.000  | 48.79 | -2.88  | 45.91  | 74.00     | -28.09 VERTICAL Peak    |
| 6    | 7987.000  | 51.37 | -1.74  | 49.63  | 74.00     | -24.37 VERTICAL Peak    |
| 7    | 9688.000  | 49.63 | 0.61   | 50.44  | 74.00     | -23.56 VERTICAL Peak    |
| 8    | 11183.000 | 51.34 | 1.12   | 52.46  | 74.00     | -21.54 VERTICAL Peak    |
| 9    | 14617.000 | 38.19 | 3.69   | 41.88  | 54.00     | -12.12 VERTICAL Average |
| 10   | 14617.000 | 50.11 | 3.69   | 53.80  | 74.00     | -20.20 VERTICAL Peak    |
| 11   | 18000.000 | 34.20 | 13.51  | 47.71  | 54.00     | -6.29 VERTICAL Average  |
| 12   | 18000.000 | 45.52 | 13.51  | 59.03  | 74.00     | -14.97 VERTICAL Peak    |

### 802.11n40 middle channel Horizontal



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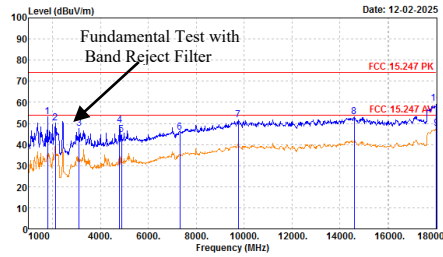
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11n40 middle channel 2437MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over   |                                 |
|--------------|-------|--------|--------|---------------------------------|
| Freq         | Level | Factor | Level  | Line                            |
| MHz          | dBuV  | dB/m   | dBuV/m | dBuV/m                          |
|              |       |        |        | dB                              |
| 1 1238.000   | 66.18 | -16.06 | 49.32  | 74.00 -34.68 HORIZONTAL Peak    |
| 2 3244.000   | 57.04 | -9.85  | 47.19  | 74.00 -26.81 HORIZONTAL Peak    |
| 3 4874.000   | 54.64 | -7.40  | 47.24  | 74.00 -26.76 HORIZONTAL Peak    |
| 4 7311.000   | 51.09 | -2.73  | 48.36  | 74.00 -25.64 HORIZONTAL Peak    |
| 5 7880.000   | 53.43 | -1.89  | 51.54  | 74.00 -22.46 HORIZONTAL Peak    |
| 6 9748.000   | 41.51 | 0.85   | 42.36  | 54.00 -11.64 HORIZONTAL Average |
| 7 9748.000   | 53.55 | 0.85   | 54.40  | 74.00 -19.60 HORIZONTAL Peak    |
| 8 18316.000  | 39.35 | 0.97   | 40.32  | 54.00 -13.68 HORIZONTAL Average |
| 9 18316.000  | 55.42 | 0.97   | 56.39  | 74.00 -17.61 HORIZONTAL Peak    |
| 10 14430.000 | 49.57 | 3.78   | 53.35  | 74.00 -20.65 HORIZONTAL Peak    |
| 11 17983.000 | 34.38 | 13.30  | 47.68  | 54.00 -6.32 HORIZONTAL Average  |
| 12 17983.000 | 44.89 | 13.30  | 58.19  | 74.00 -15.81 HORIZONTAL Peak    |

### 802.11n40 middle channel Vertical



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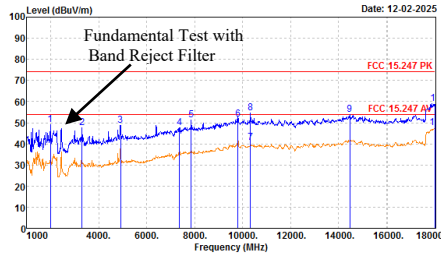
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11n40 middle channel 2437MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over   |                              |
|--------------|-------|--------|--------|------------------------------|
| Freq         | Level | Factor | Level  | Line                         |
| MHz          | dBuV  | dB/m   | dBuV/m | dBuV/m                       |
|              |       |        |        | dB                           |
| 1 1782.000   | 68.06 | -15.04 | 53.02  | 74.00 -20.98 VERTICAL Peak   |
| 2 2185.000   | 62.62 | -12.61 | 50.01  | 74.00 -23.99 VERTICAL Peak   |
| 3 3188.000   | 57.79 | -10.21 | 47.58  | 74.00 -26.42 VERTICAL Peak   |
| 4 4791.000   | 56.52 | -7.52  | 49.00  | 74.00 -25.00 VERTICAL Peak   |
| 5 4874.000   | 52.21 | -7.40  | 44.81  | 74.00 -29.19 VERTICAL Peak   |
| 6 7311.000   | 48.50 | -2.73  | 45.77  | 74.00 -28.23 VERTICAL Peak   |
| 7 9748.000   | 50.81 | 0.85   | 51.66  | 74.00 -22.34 VERTICAL Peak   |
| 8 14600.000  | 49.59 | 3.71   | 53.30  | 74.00 -20.70 VERTICAL Peak   |
| 9 18000.000  | 34.21 | 13.51  | 47.72  | 54.00 -6.28 VERTICAL Average |
| 10 18000.000 | 45.72 | 13.51  | 59.23  | 74.00 -14.77 VERTICAL Peak   |

## 802.11n40 high channel Horizontal



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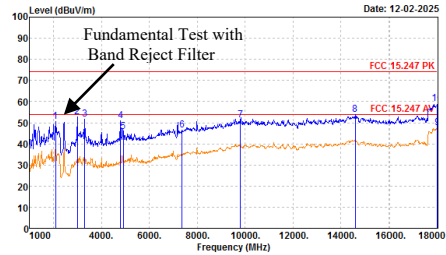
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11n40 high channel 2452MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Pol/Phase | Remark                    |
|------|-----------|-------|--------|--------|-----------|---------------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB        |                           |
| 1    | 1986.000  | 62.93 | -13.81 | 49.12  | 74.00     | -24.88 HORIZONTAL Peak    |
| 2    | 3295.000  | 57.30 | -9.73  | 47.57  | 74.00     | -26.43 HORIZONTAL Peak    |
| 3    | 4984.000  | 56.22 | -7.36  | 48.86  | 74.00     | -25.14 HORIZONTAL Peak    |
| 4    | 7356.000  | 58.31 | -2.60  | 47.71  | 74.00     | -26.29 HORIZONTAL Peak    |
| 5    | 7851.000  | 53.22 | -1.86  | 51.36  | 74.00     | -22.64 HORIZONTAL Peak    |
| 6    | 9888.000  | 58.64 | 0.90   | 51.54  | 74.00     | -22.46 HORIZONTAL Peak    |
| 7    | 18316.000 | 39.52 | 0.97   | 48.49  | 54.00     | -13.51 HORIZONTAL Average |
| 8    | 18316.000 | 53.80 | 0.97   | 54.77  | 74.00     | -19.23 HORIZONTAL Peak    |
| 9    | 14464.000 | 49.90 | 3.80   | 53.70  | 74.00     | -20.30 HORIZONTAL Peak    |
| 10   | 18000.000 | 34.20 | 13.51  | 47.71  | 54.00     | -6.29 HORIZONTAL Average  |
| 11   | 18000.000 | 45.47 | 13.51  | 58.98  | 74.00     | -15.02 HORIZONTAL Peak    |

## 802.11n40 high channel Vertical



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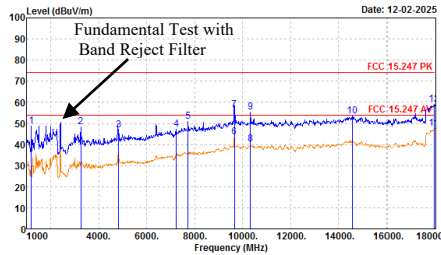
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11n40 high channel 2452MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Pol/Phase | Remark                 |
|------|-----------|-------|--------|--------|-----------|------------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB        |                        |
| 1    | 2088.000  | 63.19 | -12.78 | 50.41  | 74.00     | -23.59 VERTICAL Peak   |
| 2    | 2989.000  | 63.14 | -10.35 | 52.79  | 74.00     | -21.21 VERTICAL Peak   |
| 3    | 3295.000  | 61.40 | -9.73  | 51.67  | 74.00     | -22.33 VERTICAL Peak   |
| 4    | 4791.000  | 58.40 | -7.52  | 50.88  | 74.00     | -23.12 VERTICAL Peak   |
| 5    | 4984.000  | 53.11 | -7.36  | 45.75  | 74.00     | -28.25 VERTICAL Peak   |
| 6    | 7356.000  | 48.93 | -2.60  | 46.33  | 74.00     | -27.67 VERTICAL Peak   |
| 7    | 9888.000  | 58.22 | 0.90   | 51.12  | 74.00     | -22.88 VERTICAL Peak   |
| 8    | 14680.000 | 58.02 | 3.71   | 53.73  | 74.00     | -20.27 VERTICAL Peak   |
| 9    | 18000.000 | 34.24 | 13.51  | 47.75  | 54.00     | -6.25 VERTICAL Average |
| 10   | 18000.000 | 45.53 | 13.51  | 59.04  | 74.00     | -14.96 VERTICAL Peak   |

### 802.11be20 low channel Horizontal



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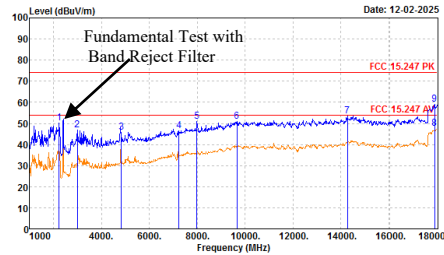
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11be20 low channel 2412MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Level  | Limit | Over   |        |                    |
|--------------|-------|--------|-------|--------|--------|--------------------|
| Freq         | Level | Factor | Level | Line   | Limit  | Pol/Phase          |
| MHz          | dBuV  |        | dB/m  | dBuV/m | dBuV/m | dB                 |
| 1 1187.000   | 65.83 | -16.95 | 48.88 | 74.00  | -25.12 | HORIZONTAL Peak    |
| 2 3244.000   | 58.11 | -9.85  | 48.26 | 74.00  | -25.74 | HORIZONTAL Peak    |
| 3 4824.000   | 54.47 | -7.46  | 47.01 | 74.00  | -26.99 | HORIZONTAL Peak    |
| 4 7236.000   | 50.37 | -2.97  | 47.40 | 74.00  | -26.60 | HORIZONTAL Peak    |
| 5 7715.000   | 52.97 | -1.97  | 51.00 | 74.00  | -23.00 | HORIZONTAL Peak    |
| 6 9648.000   | 42.68 | 0.78   | 43.46 | 54.00  | -10.54 | HORIZONTAL Average |
| 7 9648.000   | 55.67 | 0.78   | 56.45 | 74.00  | -17.55 | HORIZONTAL Peak    |
| 8 18316.000  | 39.31 | 0.97   | 40.28 | 54.00  | -13.72 | HORIZONTAL Average |
| 9 18316.000  | 54.39 | 0.97   | 55.36 | 74.00  | -18.64 | HORIZONTAL Peak    |
| 10 14566.000 | 49.57 | 3.75   | 53.32 | 74.00  | -20.68 | HORIZONTAL Peak    |
| 11 17949.000 | 34.64 | 12.90  | 47.54 | 54.00  | -6.46  | HORIZONTAL Average |
| 12 17949.000 | 46.30 | 12.90  | 59.20 | 74.00  | -14.80 | HORIZONTAL Peak    |

### 802.11be20 low channel Vertical



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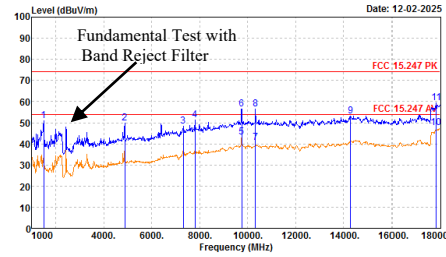
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11be20 low channel 2412MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|             | Read  | Level  | Limit | Over   |        |                  |
|-------------|-------|--------|-------|--------|--------|------------------|
| Freq        | Level | Factor | Level | Line   | Limit  | Pol/Phase        |
| MHz         | dBuV  |        | dB/m  | dBuV/m | dBuV/m | dB               |
| 1 2224.000  | 62.23 | -12.20 | 50.03 | 74.00  | -23.97 | VERTICAL Peak    |
| 2 2989.000  | 57.34 | -10.35 | 46.99 | 74.00  | -27.01 | VERTICAL Peak    |
| 3 4824.000  | 53.13 | -7.46  | 45.67 | 74.00  | -28.33 | VERTICAL Peak    |
| 4 7236.000  | 49.45 | -2.97  | 46.48 | 74.00  | -27.52 | VERTICAL Peak    |
| 5 7987.000  | 52.59 | -1.74  | 50.85 | 74.00  | -23.15 | VERTICAL Peak    |
| 6 9648.000  | 50.22 | 0.78   | 51.00 | 74.00  | -23.00 | VERTICAL Peak    |
| 7 14277.000 | 49.86 | 3.65   | 53.51 | 74.00  | -20.49 | VERTICAL Peak    |
| 8 17881.000 | 35.56 | 12.07  | 47.63 | 54.00  | -6.37  | VERTICAL Average |
| 9 17881.000 | 47.02 | 12.07  | 59.09 | 74.00  | -14.91 | VERTICAL Peak    |

### 802.11be20 middle channel Horizontal



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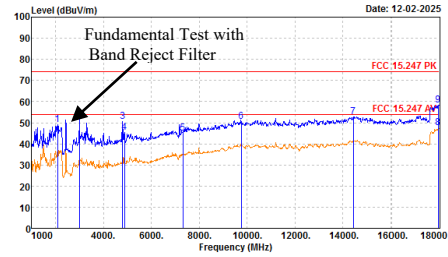
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11be20 middle channel 2437MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over  | Pol/Phase | Remark             |
|------|-----------|-------|--------|--------|-------|-----------|--------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB    |           |                    |
| 1    | 1493.000  | 67.26 | -16.36 | 50.90  | 74.00 | -23.10    | HORIZONTAL Peak    |
| 2    | 4874.000  | 57.13 | -7.40  | 49.73  | 74.00 | -24.27    | HORIZONTAL Peak    |
| 3    | 7311.000  | 51.00 | -2.73  | 48.27  | 74.00 | -25.73    | HORIZONTAL Peak    |
| 4    | 7080.000  | 51.15 | -1.89  | 51.26  | 74.00 | -22.74    | HORIZONTAL Peak    |
| 5    | 9748.000  | 42.45 | 0.85   | 43.30  | 54.00 | -10.70    | HORIZONTAL Average |
| 6    | 9748.000  | 55.50 | 0.85   | 56.35  | 74.00 | -17.65    | HORIZONTAL Peak    |
| 7    | 18316.000 | 39.50 | 0.97   | 40.47  | 54.00 | -13.53    | HORIZONTAL Average |
| 8    | 18316.000 | 55.51 | 0.97   | 56.48  | 74.00 | -17.52    | HORIZONTAL Peak    |
| 9    | 14294.000 | 49.41 | 3.66   | 53.07  | 74.00 | -20.93    | HORIZONTAL Peak    |
| 10   | 17830.000 | 36.18 | 11.47  | 47.65  | 54.00 | -6.35     | HORIZONTAL Average |
| 11   | 17830.000 | 48.10 | 11.47  | 59.57  | 74.00 | -14.43    | HORIZONTAL Peak    |

### 802.11be20 middle channel Vertical



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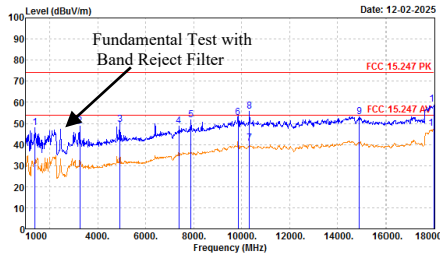
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11be20 middle channel 2437MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over  | Pol/Phase | Remark           |
|------|-----------|-------|--------|--------|-------|-----------|------------------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB    |           |                  |
| 1    | 2088.000  | 61.76 | -12.78 | 48.98  | 74.00 | -25.02    | VERTICAL Peak    |
| 2    | 2989.000  | 62.17 | -10.35 | 51.82  | 74.00 | -22.18    | VERTICAL Peak    |
| 3    | 4791.000  | 58.89 | -7.52  | 50.57  | 74.00 | -23.43    | VERTICAL Peak    |
| 4    | 4874.000  | 52.75 | -7.40  | 45.35  | 74.00 | -28.65    | VERTICAL Peak    |
| 5    | 7311.000  | 47.92 | -2.73  | 45.19  | 74.00 | -28.81    | VERTICAL Peak    |
| 6    | 9748.000  | 49.84 | 0.85   | 50.69  | 74.00 | -23.31    | VERTICAL Peak    |
| 7    | 14430.000 | 49.13 | 3.78   | 52.91  | 74.00 | -21.09    | VERTICAL Peak    |
| 8    | 17949.000 | 34.69 | 12.90  | 47.59  | 54.00 | -6.41     | VERTICAL Average |
| 9    | 17949.000 | 45.29 | 12.90  | 58.19  | 74.00 | -15.81    | VERTICAL Peak    |

### 802.11be20 high channel Horizontal



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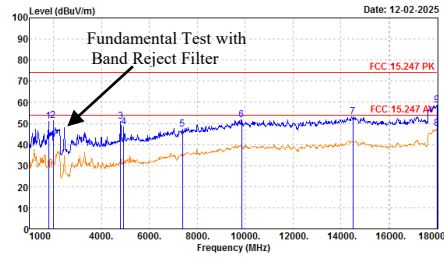
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11be20 high channel 2462MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over   |        |
|--------------|-------|--------|--------|--------|
| Freq         | Level | Factor | Level  | Line   |
| MHz          | dBuV  | dB/m   | dBuV/m | dBuV/m |
| 1 1374.000   | 64.51 | -16.59 | 47.92  | 74.00  |
| 2 3244.000   | 58.73 | -9.85  | 48.88  | 74.00  |
| 3 4924.000   | 56.73 | -7.33  | 49.40  | 74.00  |
| 4 7386.000   | 51.13 | -2.50  | 48.63  | 74.00  |
| 5 7885.000   | 51.30 | -1.83  | 51.55  | 74.00  |
| 6 9848.000   | 52.01 | 0.94   | 52.95  | 74.00  |
| 7 10316.000  | 39.64 | 0.97   | 40.61  | 54.00  |
| 8 10316.000  | 54.70 | 0.97   | 55.67  | 74.00  |
| 9 14986.000  | 49.95 | 3.51   | 53.26  | 74.00  |
| 10 18000.000 | 34.12 | 13.51  | 47.63  | 54.00  |
| 11 18000.000 | 45.68 | 13.51  | 59.19  | 74.00  |

### 802.11be20 high channel Vertical



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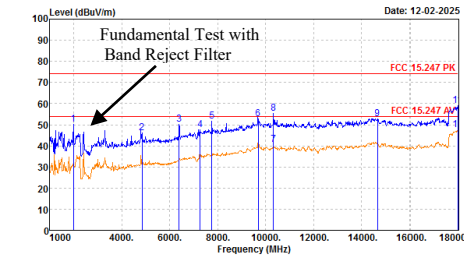
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11be20 high channel 2462MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|             | Read  | Limit  | Over   |        |
|-------------|-------|--------|--------|--------|
| Freq        | Level | Factor | Level  | Line   |
| MHz         | dBuV  | dB/m   | dBuV/m | dBuV/m |
| 1 1782.000  | 65.79 | -15.04 | 50.75  | 74.00  |
| 2 1986.000  | 65.00 | -13.81 | 51.19  | 74.00  |
| 3 4791.000  | 58.48 | -7.52  | 50.96  | 74.00  |
| 4 4924.000  | 55.57 | -7.33  | 48.24  | 74.00  |
| 5 7386.000  | 49.90 | -2.50  | 47.40  | 74.00  |
| 6 9848.000  | 50.85 | 0.94   | 51.79  | 74.00  |
| 7 14498.000 | 49.48 | 3.84   | 53.32  | 74.00  |
| 8 17983.000 | 34.43 | 13.30  | 47.73  | 54.00  |
| 9 17983.000 | 45.28 | 13.30  | 58.58  | 74.00  |

## 802.11be40 low channel Horizontal



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fax:031-333-0017  
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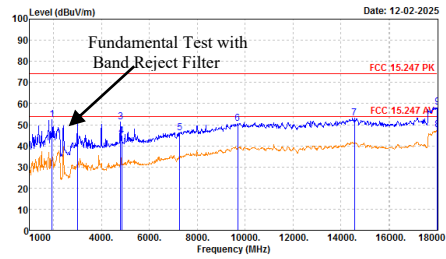
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11be40 low channel 2422MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over  | Pol/Phase         | Remark  |
|------|-----------|-------|--------|--------|-------|-------------------|---------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB    |                   |         |
| 1    | 1986.000  | 63.98 | -13.81 | 50.17  | 74.00 | -23.83 HORIZONTAL | Peak    |
| 2    | 4844.000  | 53.44 | -7.44  | 46.00  | 74.00 | -28.00 HORIZONTAL | Peak    |
| 3    | 6389.000  | 55.32 | -5.15  | 50.17  | 74.00 | -23.83 HORIZONTAL | Peak    |
| 4    | 7266.000  | 50.36 | -2.88  | 47.48  | 74.00 | -26.52 HORIZONTAL | Peak    |
| 5    | 7749.000  | 53.66 | -1.94  | 51.72  | 74.00 | -22.28 HORIZONTAL | Peak    |
| 6    | 9688.000  | 52.05 | 0.81   | 52.86  | 74.00 | -21.14 HORIZONTAL | Peak    |
| 7    | 10316.000 | 39.51 | 0.97   | 40.48  | 54.00 | -13.52 HORIZONTAL | Average |
| 8    | 10316.000 | 54.37 | 0.97   | 55.34  | 74.00 | -18.66 HORIZONTAL | Peak    |
| 9    | 14668.000 | 49.15 | 3.62   | 52.77  | 74.00 | -21.23 HORIZONTAL | Peak    |
| 10   | 17983.000 | 34.41 | 13.30  | 47.71  | 54.00 | -6.29 HORIZONTAL  | Average |
| 11   | 17983.000 | 45.61 | 13.30  | 58.91  | 74.00 | -15.09 HORIZONTAL | Peak    |

## 802.11be40 low channel Vertical



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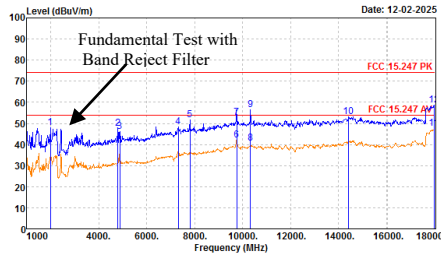
Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11be40 low channel 2422MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

| Freq | Read      |       | Limit  |        | Over  | Pol/Phase       | Remark  |
|------|-----------|-------|--------|--------|-------|-----------------|---------|
|      | MHz       | dBuV  | dB/m   | dBuV/m | dB    |                 |         |
| 1    | 1935.000  | 66.55 | -14.31 | 52.24  | 74.00 | -21.76 VERTICAL | Peak    |
| 2    | 2989.000  | 61.02 | -10.35 | 50.67  | 74.00 | -23.33 VERTICAL | Peak    |
| 3    | 4791.000  | 58.73 | -7.52  | 51.21  | 74.00 | -22.79 VERTICAL | Peak    |
| 4    | 4844.000  | 51.92 | -7.44  | 44.48  | 74.00 | -29.52 VERTICAL | Peak    |
| 5    | 7266.000  | 48.83 | -2.88  | 45.95  | 74.00 | -28.05 VERTICAL | Peak    |
| 6    | 9688.000  | 49.58 | 0.81   | 50.39  | 74.00 | -23.61 VERTICAL | Peak    |
| 7    | 14556.000 | 49.51 | 3.75   | 53.26  | 74.00 | -20.74 VERTICAL | Peak    |
| 8    | 18000.000 | 34.12 | 13.51  | 47.63  | 54.00 | -6.37 VERTICAL  | Average |
| 9    | 18000.000 | 44.85 | 13.51  | 58.36  | 74.00 | -15.64 VERTICAL | Peak    |

### 802.11be40 middle channel Horizontal



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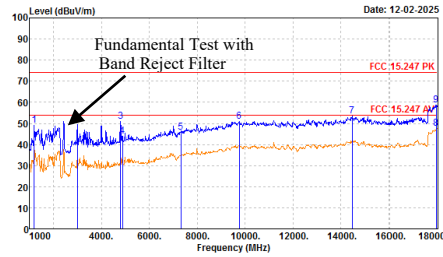
Site : 3M chamber  
Condition : HORIZONTAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11be40 middle channel 2437MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|              | Read  | Limit  | Over   |       |
|--------------|-------|--------|--------|-------|
| Freq         | Level | Factor | Level  | Line  |
| MHz          | dBuV  | dB/m   | dBuV/m | dB    |
| 1 1985.000   | 61.91 | -13.81 | 48.10  | 74.00 |
| 2 4791.000   | 55.04 | -7.52  | 47.52  | 74.00 |
| 3 4874.000   | 53.54 | -7.40  | 46.14  | 74.00 |
| 4 7311.000   | 50.89 | -2.73  | 48.16  | 74.00 |
| 5 7880.000   | 53.64 | -1.89  | 51.75  | 74.00 |
| 6 9748.000   | 41.19 | 0.85   | 42.04  | 54.00 |
| 7 9748.000   | 51.94 | 0.85   | 52.79  | 74.00 |
| 8 18316.000  | 39.44 | 0.97   | 40.41  | 54.00 |
| 9 18316.000  | 55.48 | 0.97   | 56.45  | 74.00 |
| 10 14413.000 | 49.35 | 3.78   | 53.13  | 74.00 |
| 11 17949.000 | 34.80 | 12.90  | 47.70  | 54.00 |
| 12 17949.000 | 45.72 | 12.90  | 58.62  | 74.00 |

### 802.11be40 middle channel Vertical



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Site : 3M chamber  
Condition : VERTICAL  
Project No. : 2509T61338E-RF  
Serial No. : 3DAM-2  
Tester : Gavy Kim  
Test Mode : Transmitting  
Test Channel: 802.11be40 middle channel 2437MHz  
Peak : RBW: 1MHz VBW: 3MHz  
Ave : RBW: 1MHz VBW: 5kHz

|             | Read  | Limit  | Over   |       |
|-------------|-------|--------|--------|-------|
| Freq        | Level | Factor | Level  | Line  |
| MHz         | dBuV  | dB/m   | dBuV/m | dB    |
| 1 1187.000  | 65.86 | -16.95 | 48.91  | 74.00 |
| 2 2989.000  | 59.68 | -19.35 | 40.33  | 74.00 |
| 3 4791.000  | 58.44 | -7.52  | 50.92  | 74.00 |
| 4 4874.000  | 51.31 | -7.40  | 43.91  | 74.00 |
| 5 7311.000  | 48.52 | -2.73  | 45.79  | 74.00 |
| 6 9748.000  | 49.93 | 0.85   | 50.78  | 74.00 |
| 7 14464.000 | 49.59 | 3.80   | 53.39  | 74.00 |
| 8 17949.000 | 34.79 | 12.90  | 47.69  | 54.00 |
| 9 17949.000 | 45.72 | 12.90  | 58.62  | 74.00 |