# FCC RF Test Report

| | | |
|---|---|---|
| APPLICANT | : | Realme Chongqing Mobile Telecommunications Corp., Ltd. |
| EQUIPMENT | : | Mobile Phone |
| BRAND NAME | : | realme |
| MODEL NAME | : | RMX5111 |
| FCC ID | : | 2AUYFRMX5111 |
| STANDARD | : | FCC Part 15 Subpart C §15.247 |
| CLASSIFICATION | : | (DTS) Digital Transmission System |
| TEST DATE(S) | : | Jun. 20, 2025 ~ Jul. 03, 2025 |

**We, Sporton International Inc. (Shenzhen), 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 Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.**

Fly Liang

**Approved by: Fly Liang**

ACCREDITED
Cert #5145.01

***Sporton International Inc. (ShenZhen)***

***1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055***

***People's Republic of China***

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# REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|---|---|---|---|
| FR551908C | Rev. 01 | Initial issue of report | Jul. 29, 2025 |
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# SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|---|---|---|---|---|---|
| 3.1 | 15.247(a)(2) | 6dB Bandwidth | ≥ 0.5MHz | Pass | - |
| 3.1 | - | 99% Bandwidth | - | Report Only | - |
| 3.2 | 15.247(b) | Power Output Measurement | ≤ 30dBm | Pass | - |
| 3.3 | 15.247(e) | Power Spectral Density | ≤ 8dBm/3kHz | Pass | - |
| 3.4 | 15.247(d) | Conducted Band Edges | ≤ 20dBc | Pass | - |
| | | Conducted Spurious Emission | | Pass | - |
| 3.5 | 15.247(d) | Radiated Band Edges and Radiated Spurious Emission | 15.209(a) & 15.247(d) | Pass | Under limit 5.57 dB at 2483.62 MHz |
| 3.6 | 15.207 | AC Conducted Emission | 15.207(a) | Pass | Under limit 16.46 dB at 0.38 MHz |
| 3.7 | 15.203 & 15.247(b) | Antenna Requirement | 15.203 & 15.247(b) | Pass | - |

**Conformity Assessment Condition:**

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

**Disclaimer:**

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

# 1 General Description

## 1.1 Applicant

**Realme Chongqing Mobile Telecommunications Corp., Ltd.**
No.178 Yulong Avenue,Yufengshan,Yubei District,Chongqing,China

## 1.2 Manufacturer

**Realme Chongqing Mobile Telecommunications Corp., Ltd.**
No.178 Yulong Avenue,Yufengshan,Yubei District,Chongqing,China

## 1.3 Product Feature of Equipment Under Test

| Product Feature | |
|---|---|
| **Equipment** | Mobile Phone |
| **Brand Name** | realme |
| **Model Name** | RMX5111 |
| **FCC ID** | 2AUYFRMX5111 |
| **IMEI Code** | Conducted: 865838080031732/865838080031724<br>Conduction: 865838080030452/865838080030445<br>Radiation: 865838080030551/865838080030544 |
| **HW Version** | 11 |
| **SW Version** | realme UI 6.0 |
| **EUT Stage** | Production Unit |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification | |
|---|---|
| **Tx/Rx Channel Frequency Range** | 2412 MHz ~ 2462 MHz |
| **Maximum (Peak) Output Power to antenna** | 802.11b : 19.92 dBm (0.0982 W)<br>802.11g : 24.30 dBm (0.2692 W)<br>802.11n HT20 : 24.20 dBm (0.2630 W)<br>802.11n HT40 : 22.55 dBm (0.1799 W)<br>802.11ac VHT20 : 24.38 dBm (0.2742 W)<br>802.11ac VHT40 : 22.60 dBm (0.1820 W) |
| **99% Occupied Bandwidth** | 802.11b : 13.09MHz<br>802.11g : 17.25MHz<br>802.11ac VHT20 : 18.22MHz<br>802.11ac VHT40 : 36.60MHz |
| **Antenna Type / Gain** | PIFA Antenna type with gain -0.76 dBi |
| **Type of Modulation** | 802.11b : DSSS (DBPSK / DQPSK / CCK)<br>802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)<br>802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) |

**Note:** For 802.11n HT20 /ac VHT20 and 802.11n HT40 /ac VHT40 mode, the whole testing have assessed only

802.11ac VHT20/VHT140 by referring to the higher output power.

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

| | | | |
|---|---|---|---|
| **Test Firm** | Sporton International Inc. (ShenZhen) | | |
| **Test Site Location** | 101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China<br>TEL: +86-755-86066985 | | |
| **Test Site No.** | **Sporton Site No.** | **FCC Designation No.** | **FCC Test Firm Registration No.** |
| | TH01-SZ<br>CO02-SZ<br>03CH01-SZ | CN1256 | 421272 |

## 1.7 Test Software

| Item | Site | Manufacturer | Name | Version |
|---|---|---|---|---|
| 1. | 03CH01-SZ | AUDIX | E3 | 6.2009-8-24 |
| 2. | CO02-SZ | AUDIX | E3 | 6.120613b |

## 1.8 Applicable Standards

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

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2013

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

# 2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

b. AC power line Conducted Emission was tested under maximum output power.

## 2.1 Carrier Frequency and Channel

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

## 2.2 Test Mode

**Final test modes are considering the modulation and worse data rates as below table.**

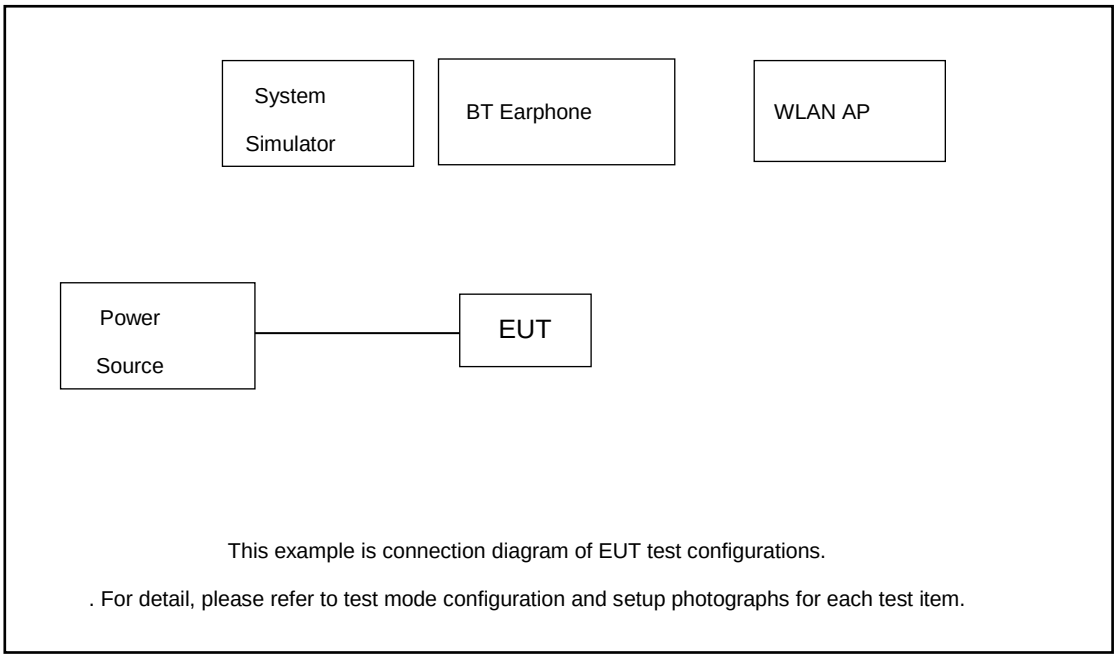
| Modulation | Data Rate |
|---|---|
| 802.11b | 1 Mbps |
| 802.11g | 6 Mbps |
| 802.11ac VHT20 | MCS0 |
| 802.11ac VHT40 | MCS0 |

| Test Cases | |
|---|---|
| AC Conducted Emission | Mode 1 :GSM 850 Idle + Bluetooth Link + WLAN Link (2.4G) + Adapter 1 + USB Cable1 + Battery 1 |
| **Remark:** For Radiated Test Cases, The tests were performance with Adapter 1 and USB Cable1. | |

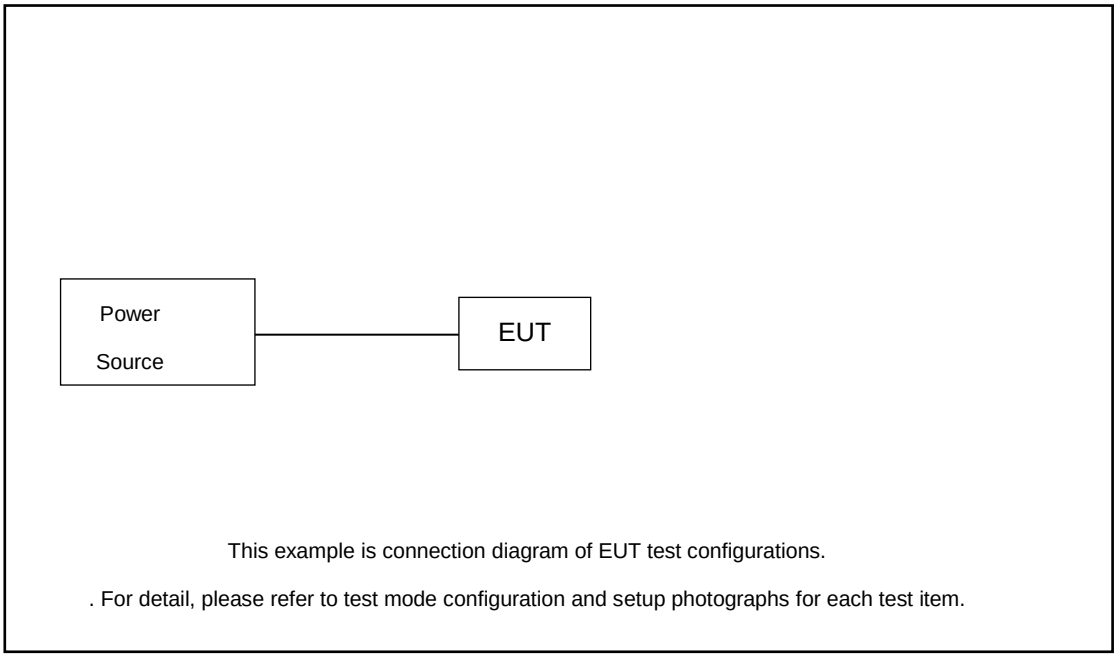
| RSE Co-location |
|---|
| 802.11g CH11 2462MHZ + LTE Band 13 link |

## 2.3 Connection Diagram of Test System

AC Conducted Emission:




Radiated Emission:



## 2.4 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|---|---|---|---|---|---|---|
| 1. | Base Station | Anritsu | MT8820C | N/A | N/A | Unshielded,1.8m |
| 2. | Notebook | DELL | Latiude 3400 | N/A | N/A | Unshielded,1.8m |
| 3. | Bluetooth Earphone | Lenovo | thinkplus-BH3 | N/A | N/A | N/A |
| 4. | WLAN AP | Dlink | DIR-820L | KA2IR820LA1 | N/A | Unshielded,1.8m |

## 2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 1.30 dB and 10dB attenuator.

*Offset(dB) = RF cable loss(dB) + attenuator factor(dB).*

= 1.30 + 10 = 11.30 (dB)

# 3 Test Result

## 3.1 6dB and 99% Bandwidth Measurement

### 3.1.1 Limit of 6dB and 99% Bandwidth

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

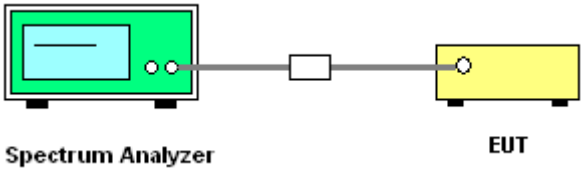
### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.1.3 Test Procedures

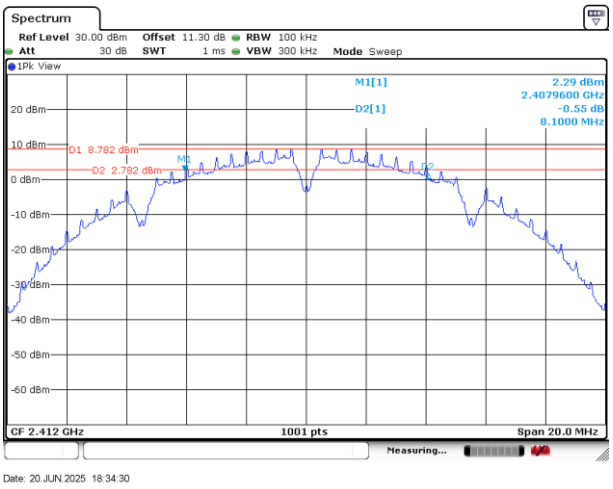
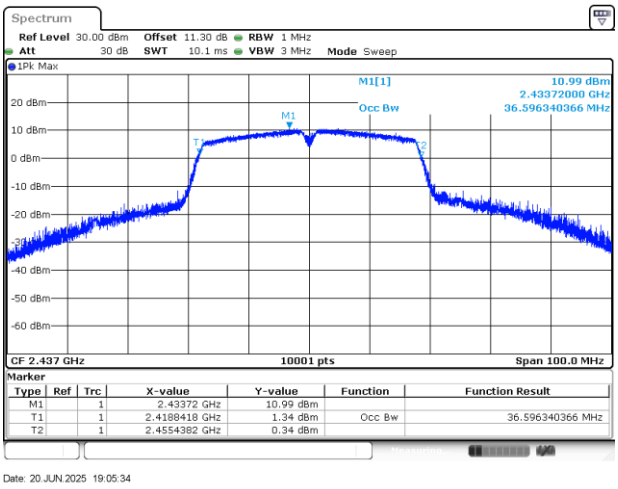
1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) ≥ 3*RBW. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1%~5% of OBW and set the Video bandwidth (VBW) approximately three times the RBW.
6. Measure and record the results in the test report.

### 3.1.4 Test Setup



### 3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

| Minimum 6dB Bandwidth | Maximum 99% Occupied Bandwidth |
|---|---|
|  |  |





Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

## 3.2 Output Power Measurement

### 3.2.1 Limit of Output Power

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

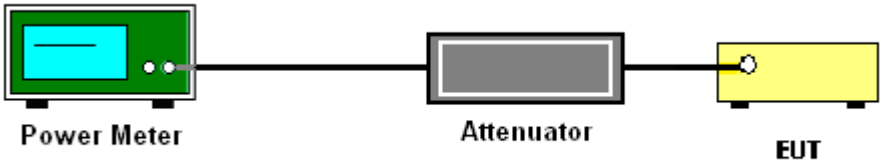
### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

### 3.2.4 Test Setup




### 3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

### 3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

## 3.3 Power Spectral Density Measurement

### 3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

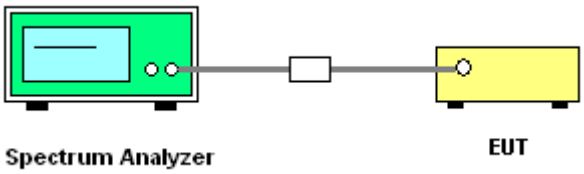
### 3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

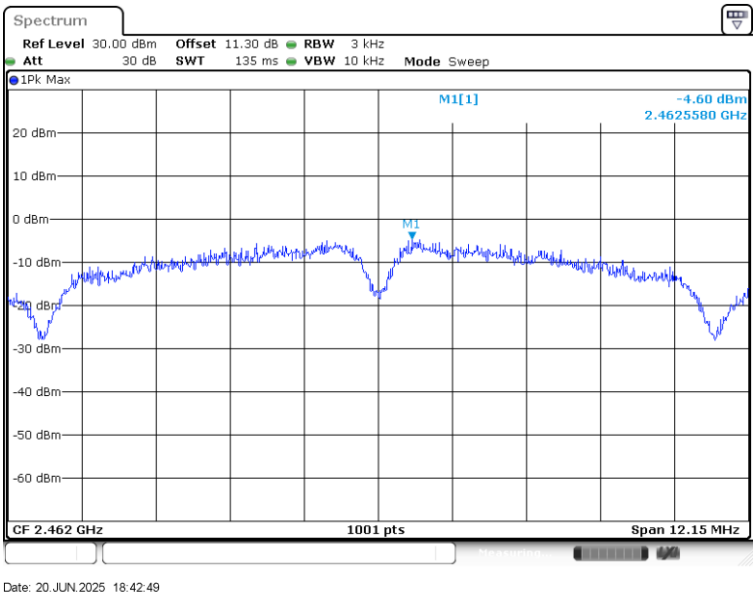
### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

**Worst Case Power Density (dBm/3kHz)**



## 3.4 Conducted Band Edges and Spurious Emission Measurement

### 3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

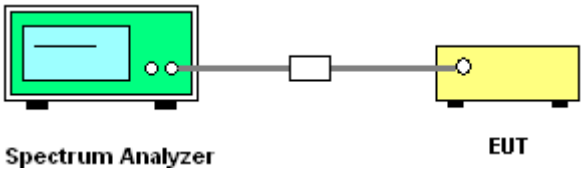
### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.11
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

### 3.4.4 Test Setup

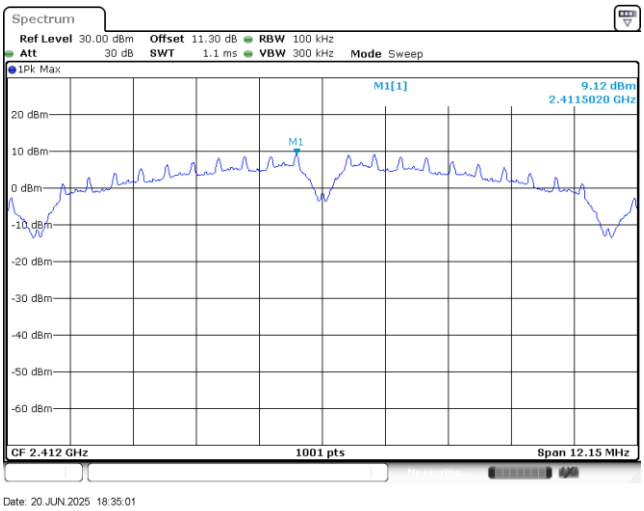


### 3.4.5 Test Result of Conducted Band Edges and Spurious Emission

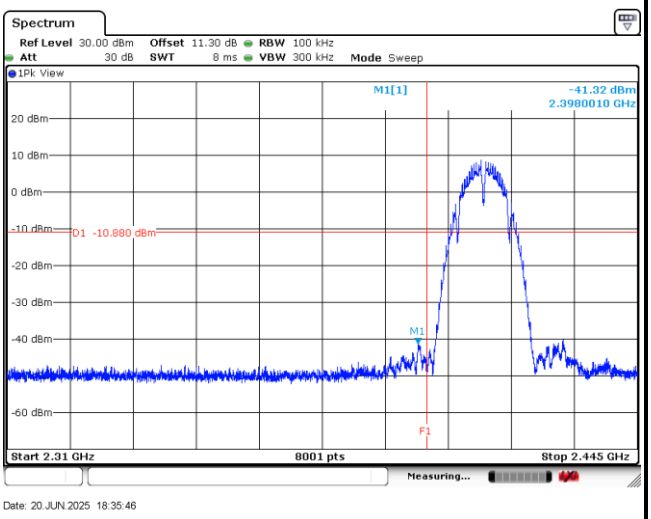
| | | | |
|---|---|---|---|
| **Test Engineer :** | Huang Kaibiao | **Temperature :** | 24~26℃ |
| | | **Relative Humidity :** | 50~53% |

| | | | |
|---|---|---|---|
| **Test Mode :** | 802.11b | **Test Channel :** | 01 |

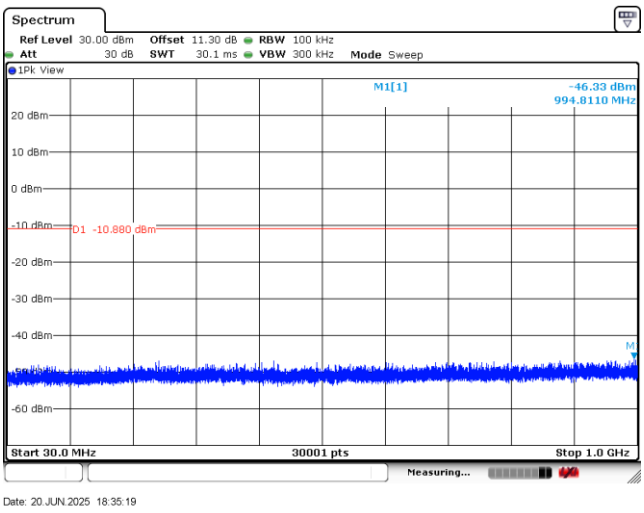
**100kHz PSD reference Level**



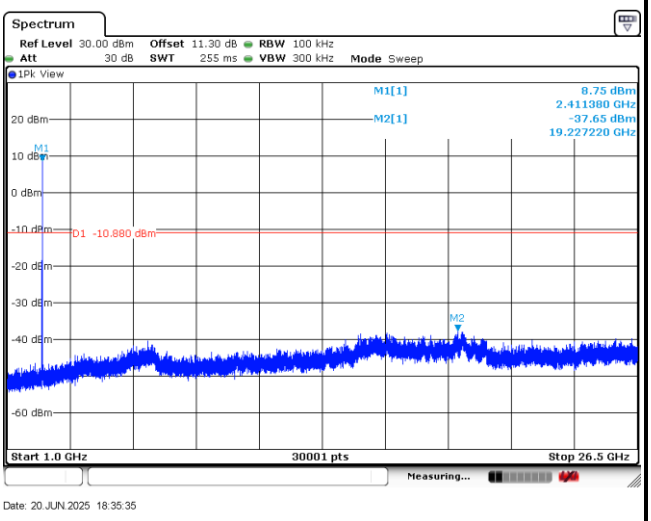

**Channel Plot**



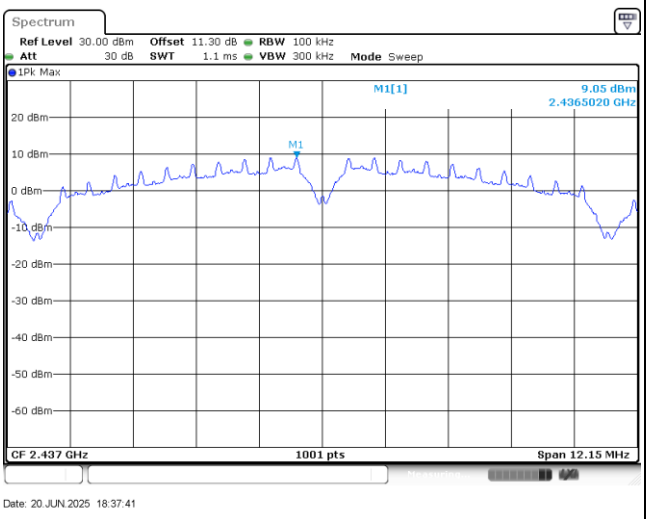

**Spurious Emission Plot-1**



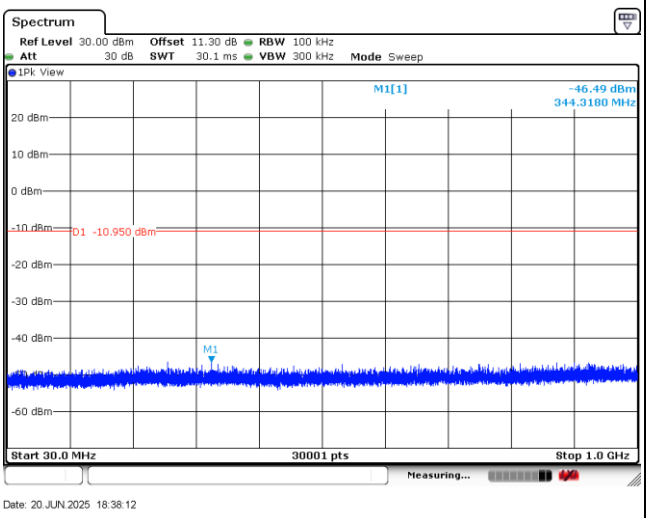
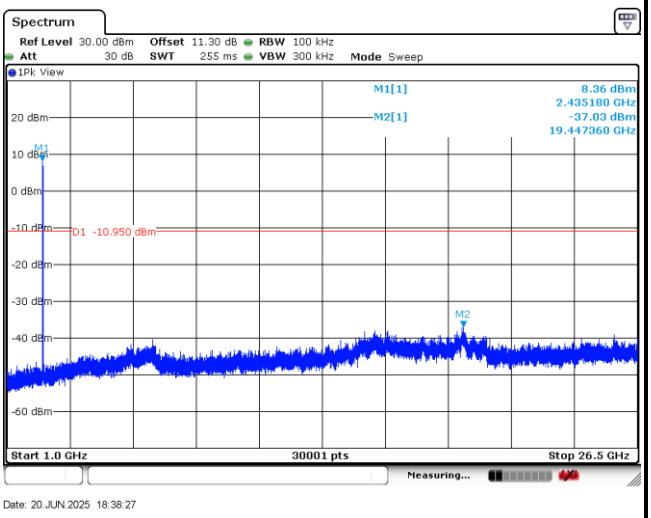

**Spurious Emission Plot-2**



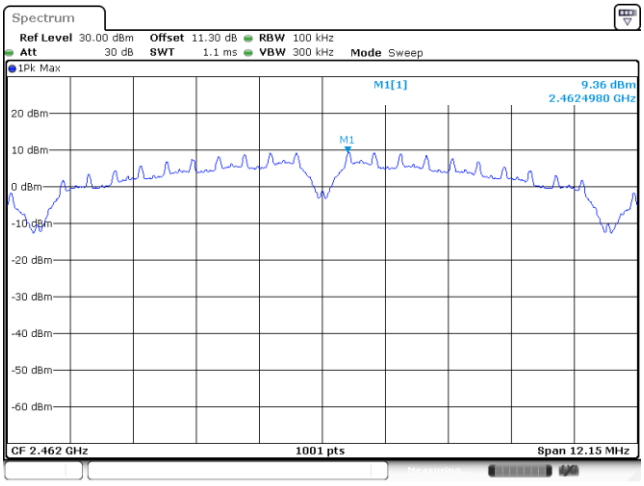
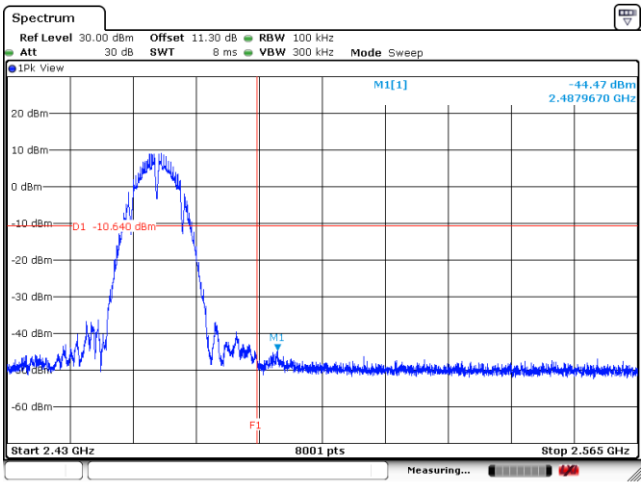
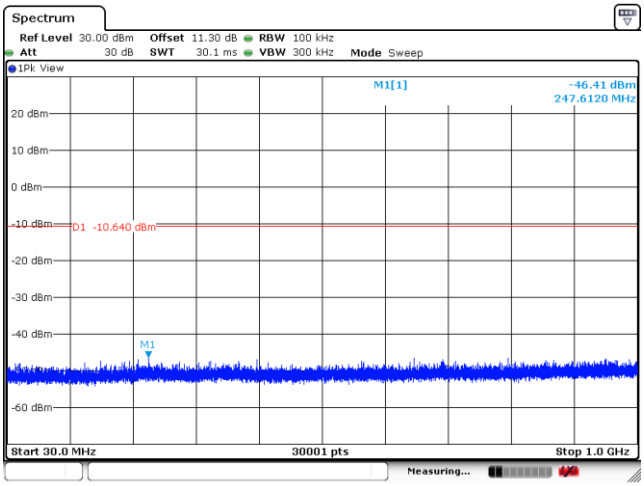
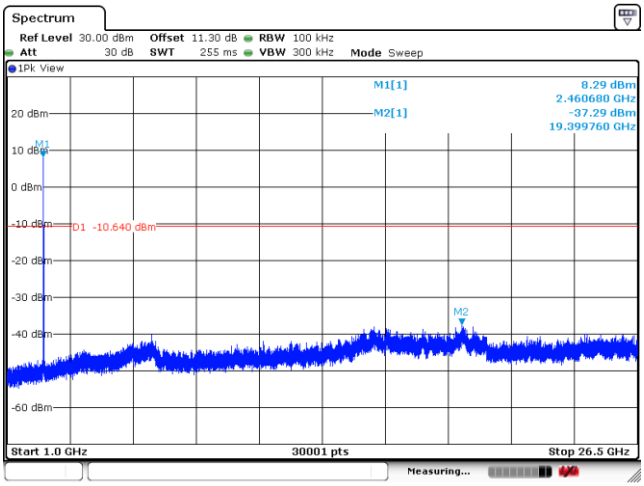
| Test Mode : | 802.11b | Test Channel : | 06 |
|---|---|---|---|

| 100kHz PSD reference Level | Channel Plot |
|---|---|
|  | |

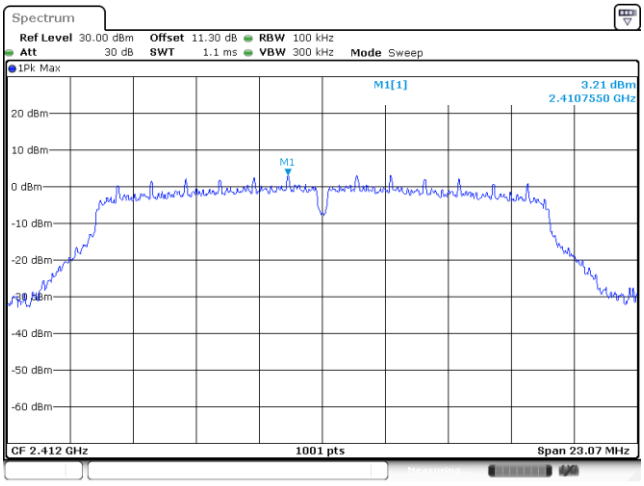
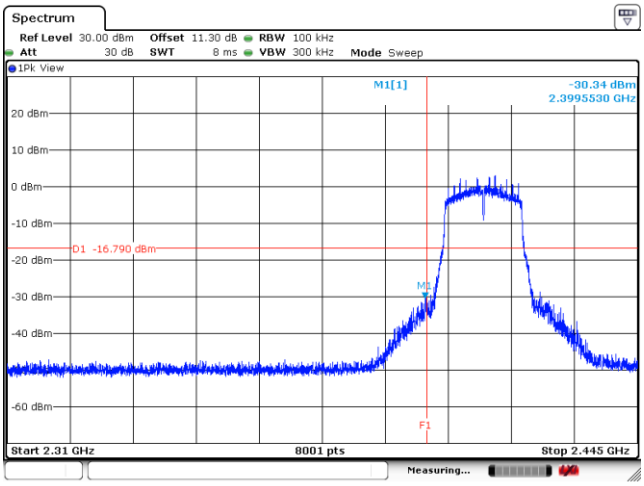
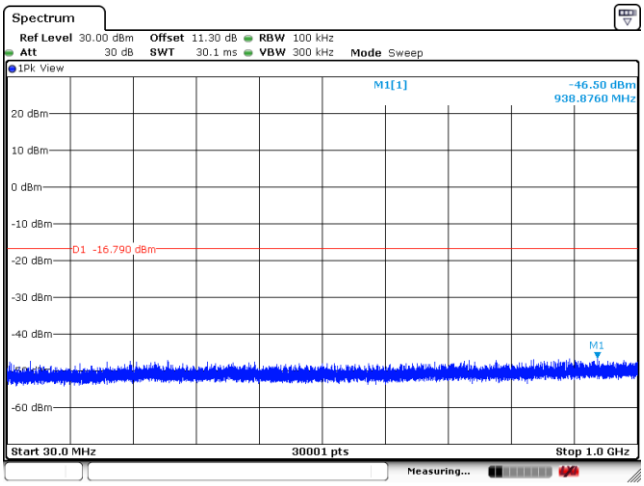
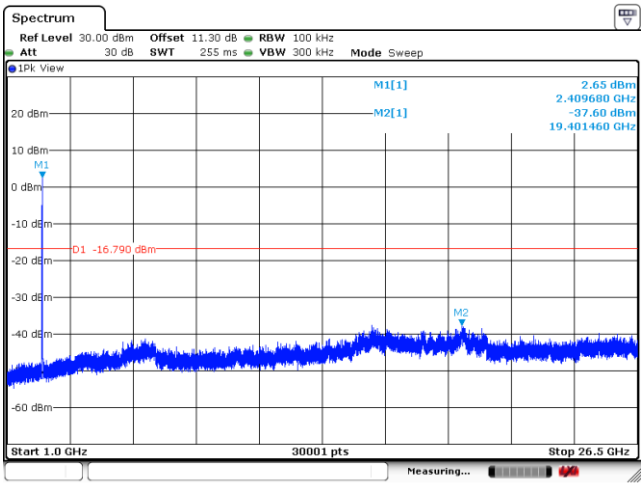


| Spurious Emission Plot-1 | Spurious Emission Plot-2 |
|---|---|
|  |  |

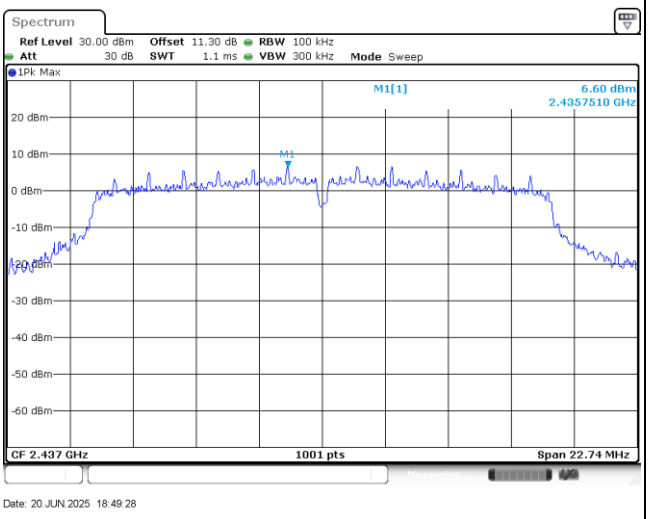
| Test Mode : | 802.11b | Test Channel : | 11 |
|---|---|---|---|

| 100kHz PSD reference Level | Channel Plot |
|---|---|
|  |  |
| Date: 20.JUN.2025 18:43:08 | Date: 20.JUN.2025 18:44:31 |
| **Spurious Emission Plot-1** | **Spurious Emission Plot-2** |
|  |  |
| Date: 20.JUN.2025 18:44:01 | Date: 20.JUN.2025 18:44:20 |

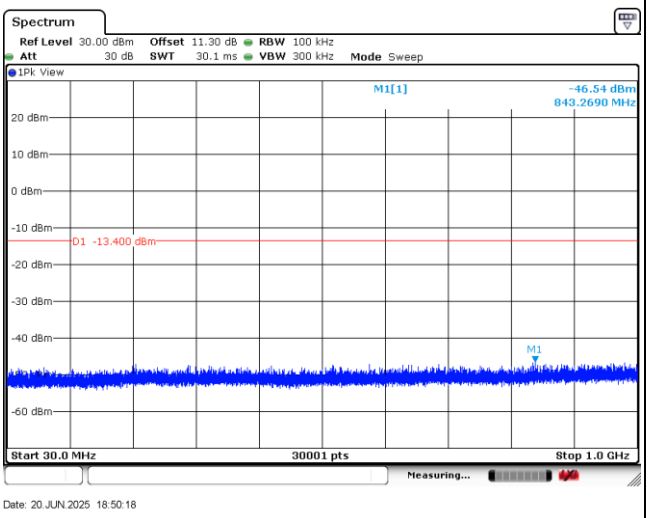
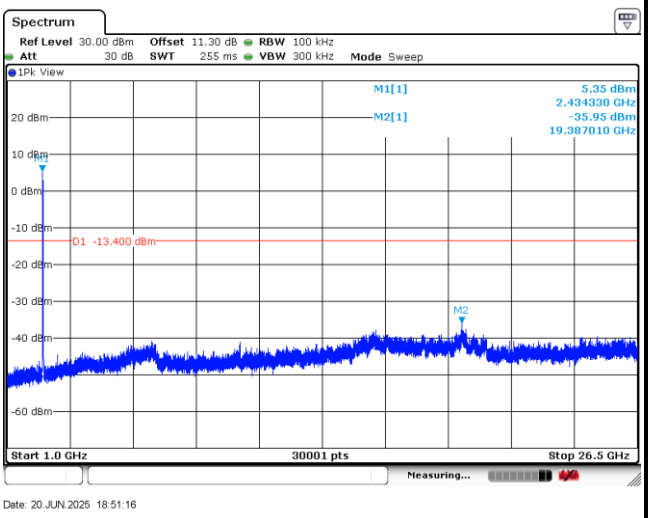
| Test Mode : | 802.11g | Test Channel : | 01 |
|---|---|---|---|

| 100kHz PSD reference Level | Channel Plot |
|---|---|
|  |  |
| Date: 20.JUN.2025 18:46:13 | Date: 20.JUN.2025 18:48:11 |
| **Spurious Emission Plot-1** | **Spurious Emission Plot-2** |
|  |  |
| Date: 20.JUN.2025 18:47:05 | Date: 20.JUN.2025 18:48:00 |

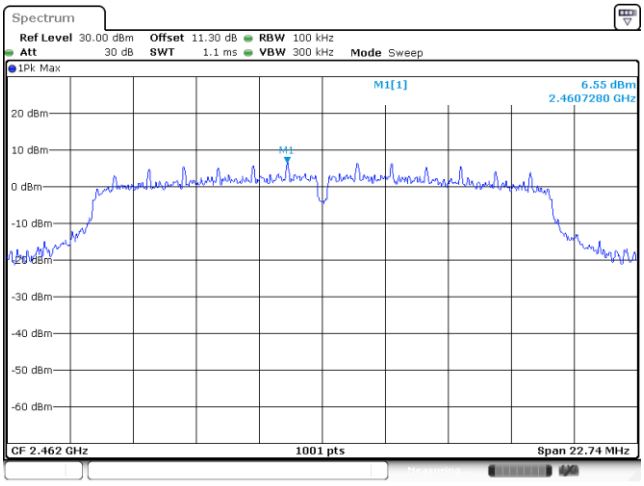
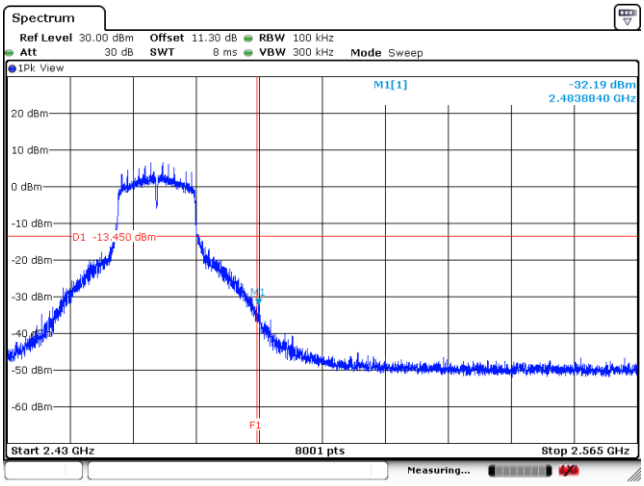
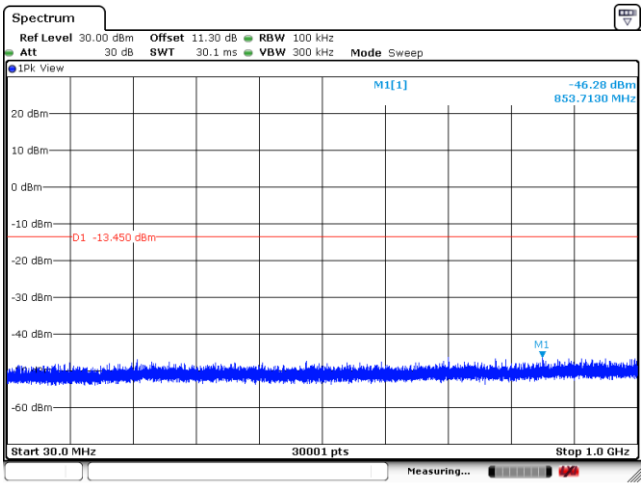
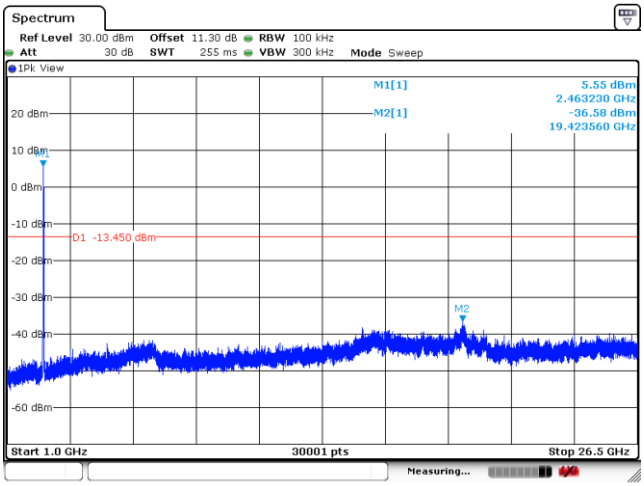
| Test Mode : | 802.11g | Test Channel : | 06 |
|---|---|---|---|

| 100kHz PSD reference Level | Channel Plot |
|---|---|
|  | |

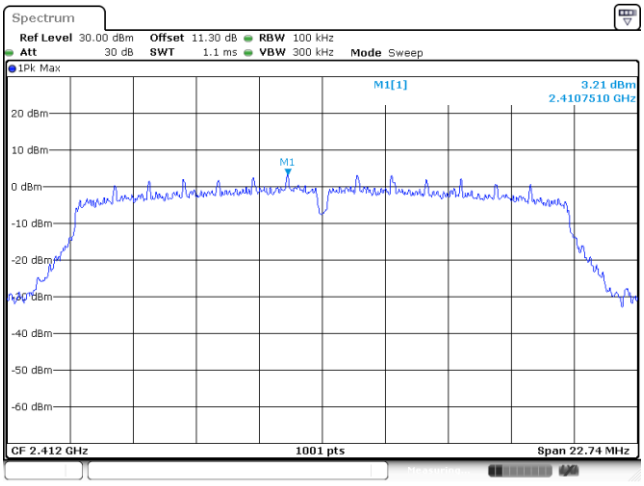
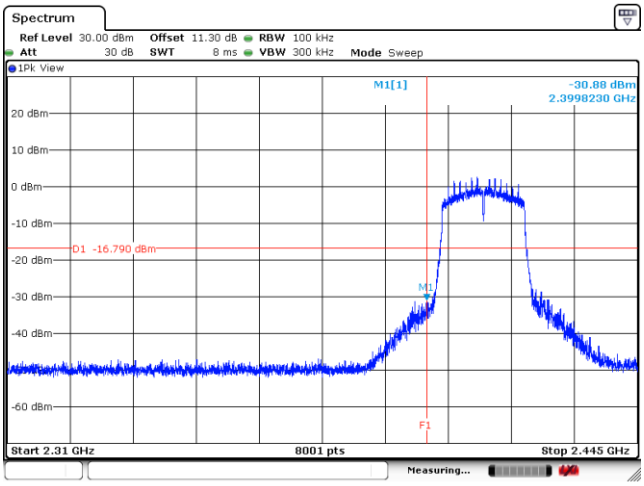


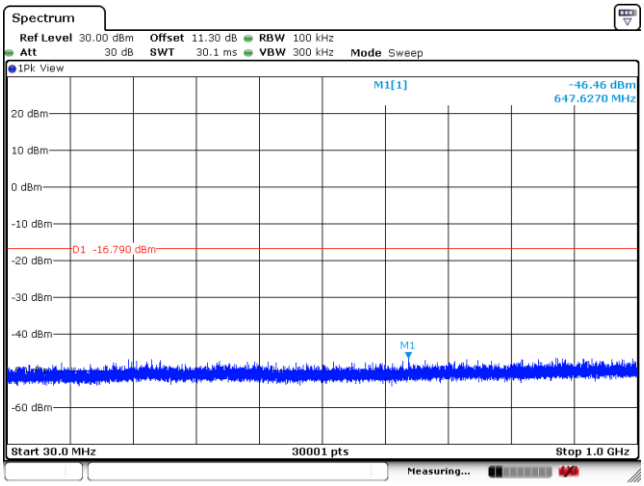
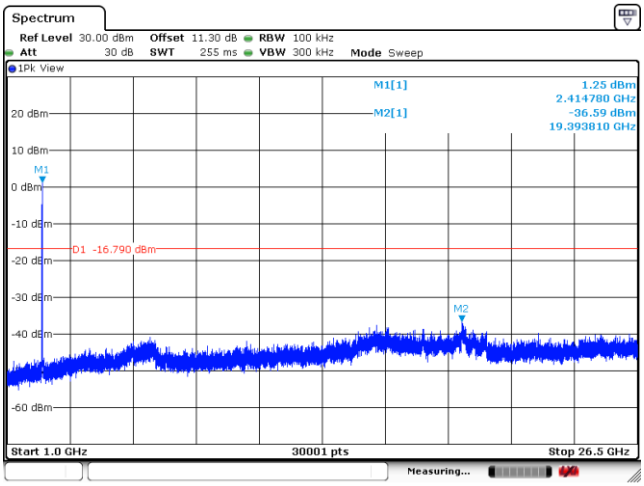
| Spurious Emission Plot-1 | Spurious Emission Plot-2 |
|---|---|
|  |  |

| Test Mode : | 802.11g | Test Channel : | 11 |
|---|---|---|---|

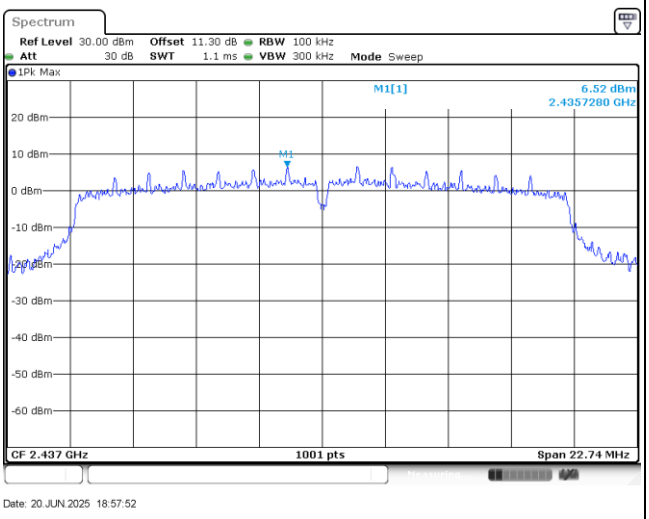
| 100kHz PSD reference Level | Channel Plot |
|---|---|
|  |  |
| Date: 20.JUN.2025 18:52:34 | Date: 20.JUN.2025 18:53:22 |
| **Spurious Emission Plot-1** | **Spurious Emission Plot-2** |
|  |  |
| Date: 20.JUN.2025 18:52:52 | Date: 20.JUN.2025 18:53:09 |

| Test Mode : | 802.11ac VHT20 | Test Channel : | 01 |
|---|---|---|---|

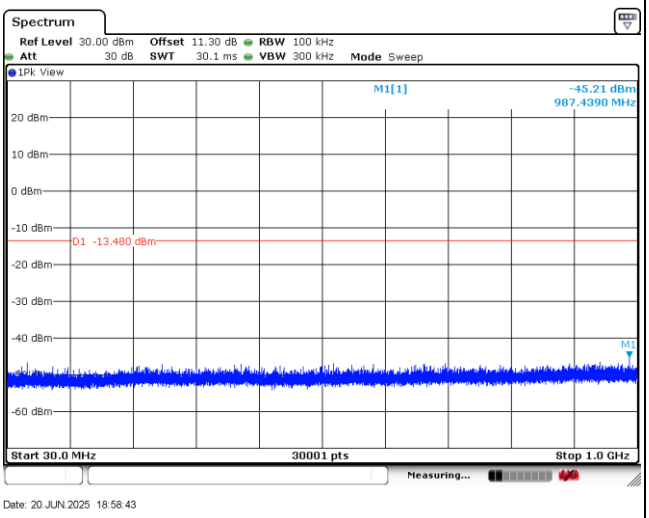
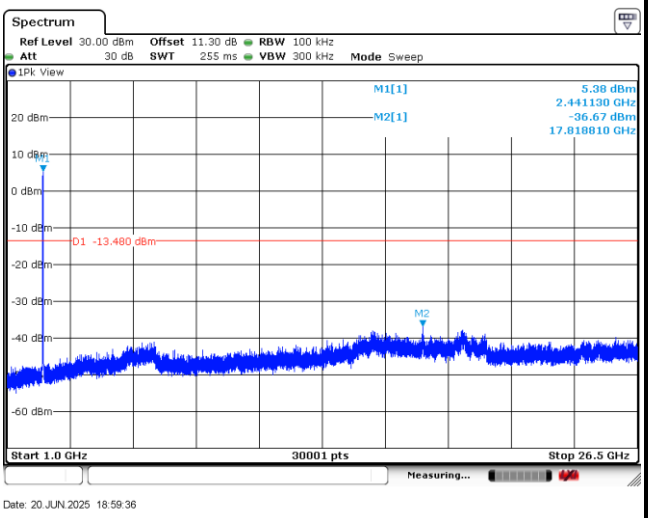
| 100kHz PSD reference Level | Channel Plot |
|---|---|
|  |  |
| Date: 20.JUN.2025 18:55:11 | Date: 20.JUN.2025 18:56:32 |

| Spurious Emission Plot-1 | Spurious Emission Plot-2 |
|---|---|
|  |  |
| Date: 20.JUN.2025 18:56:02 | Date: 20.JUN.2025 18:56:21 |

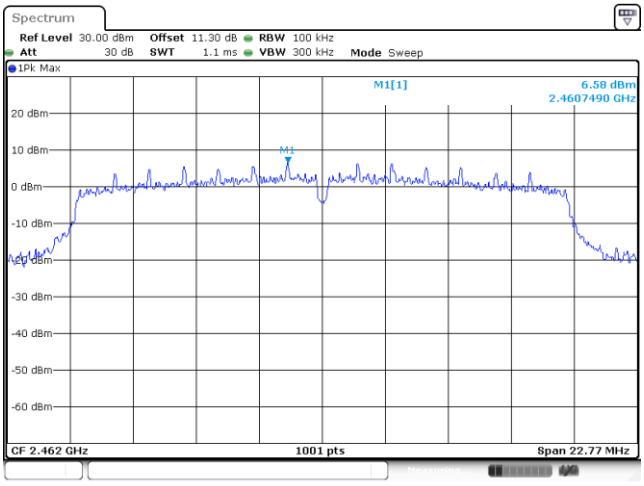
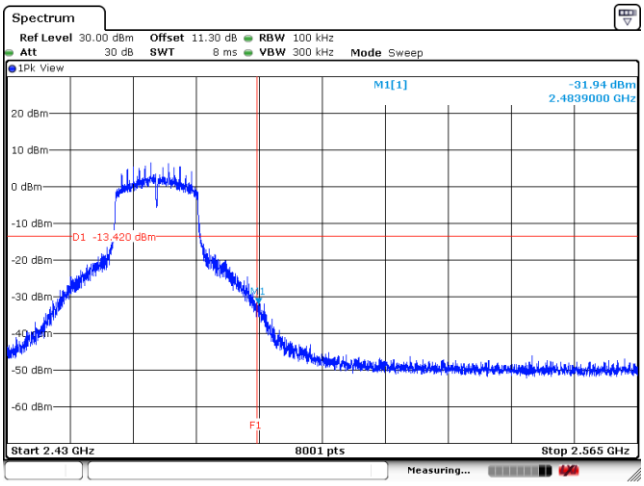
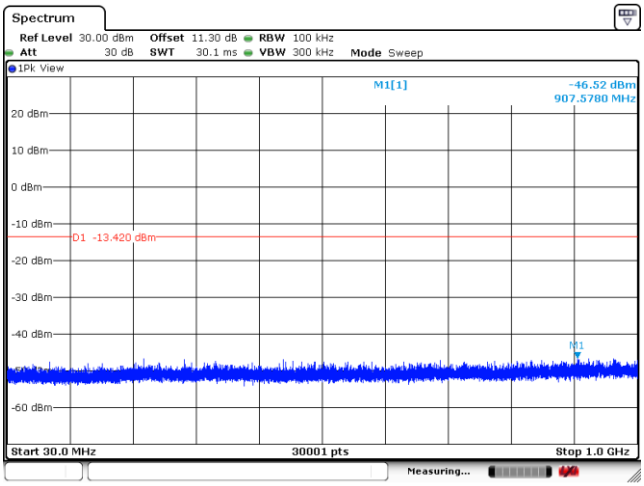
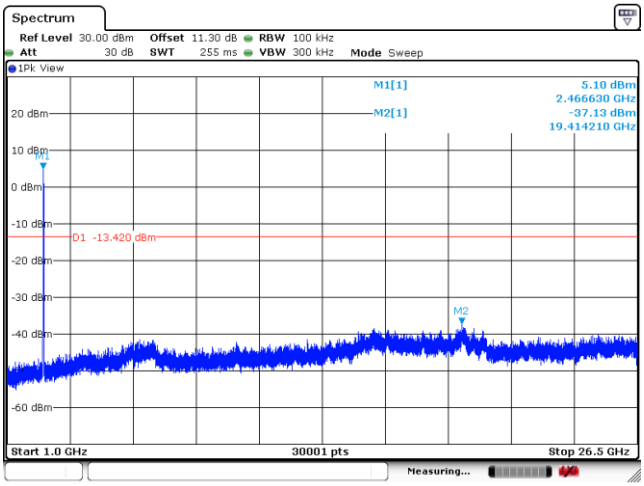
| Test Mode : | 802.11ac VHT20 | Test Channel : | 06 |
|---|---|---|---|

| 100kHz PSD reference Level | Channel Plot |
|---|---|
|  | |

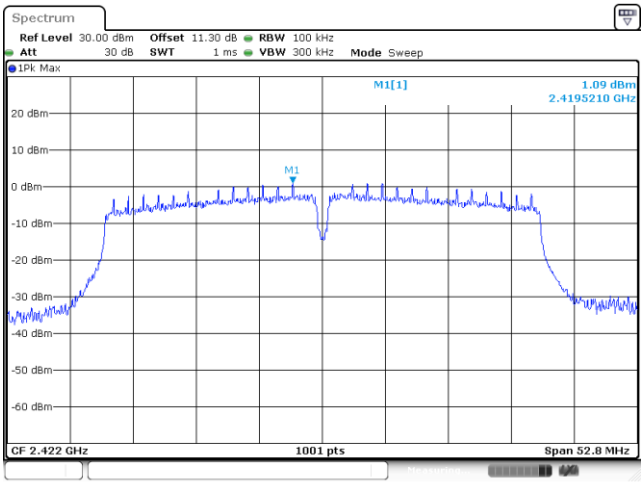
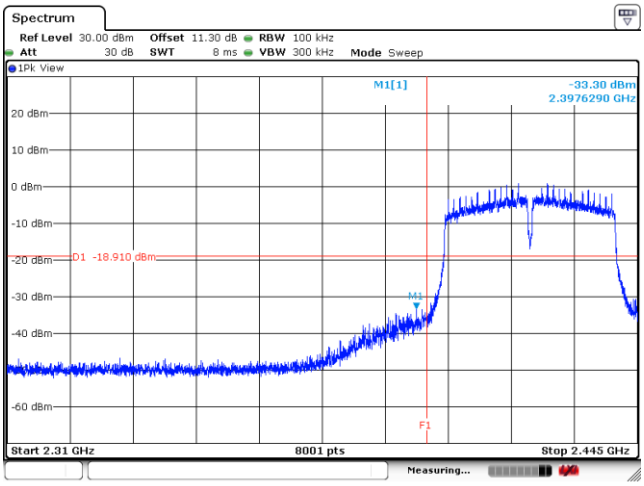
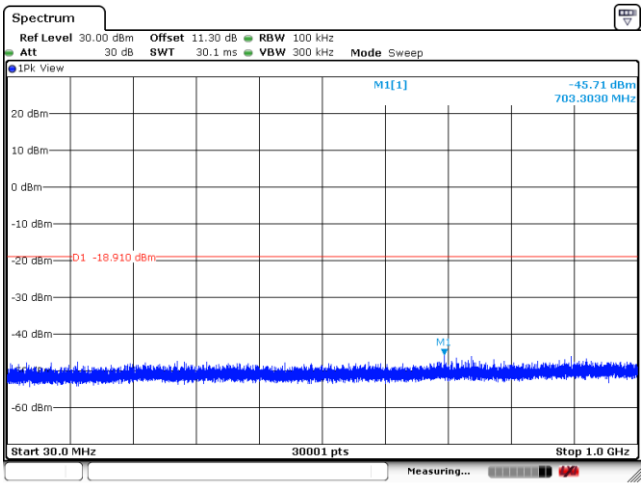
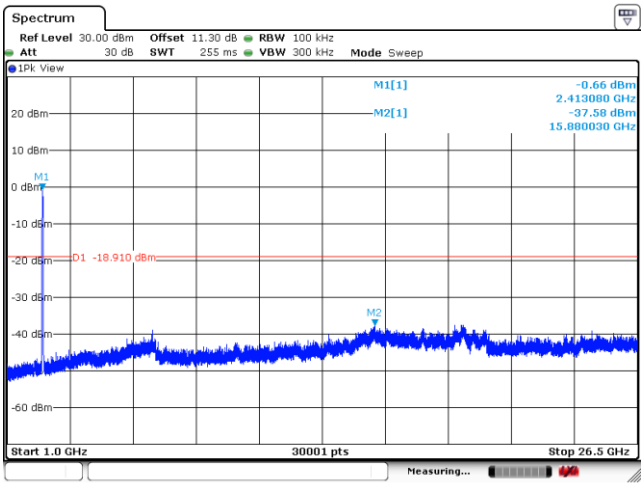


| Spurious Emission Plot-1 | Spurious Emission Plot-2 |
|---|---|
|  |  |

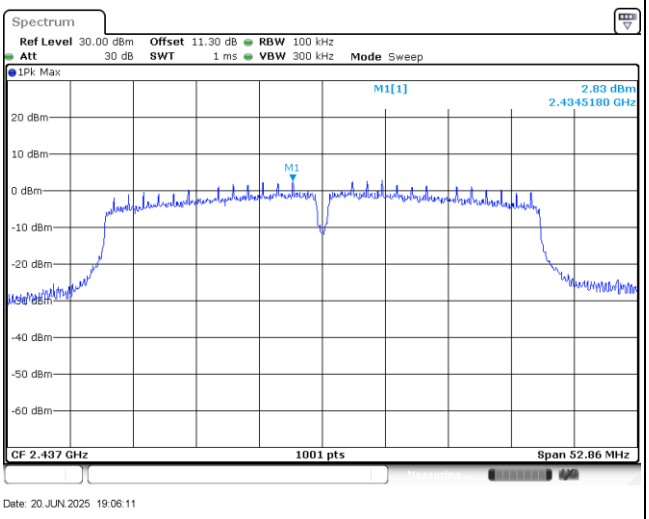
| Test Mode : | 802.11ac VHT20 | Test Channel : | 11 |
|---|---|---|---|

| 100kHz PSD reference Level | Channel Plot |
|---|---|
|  |  |
| Date: 20.JUN.2025 19:00:54 | Date: 20.JUN.2025 19:01:37 |
| **Spurious Emission Plot-1** | **Spurious Emission Plot-2** |
|  |  |
| Date: 20.JUN.2025 19:01:10 | Date: 20.JUN.2025 19:01:26 |

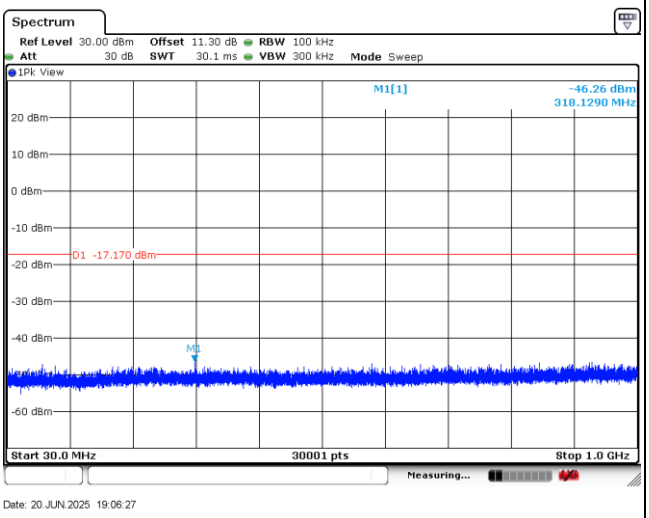
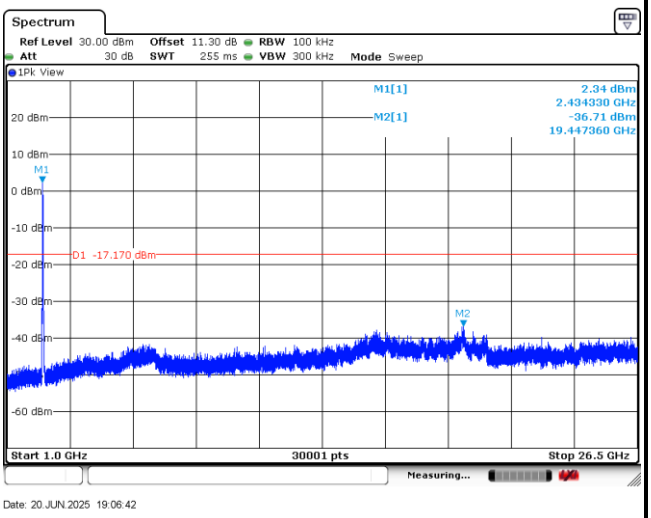
| Test Mode : | 802.11ac VHT40 | Test Channel : | 03 |
|---|---|---|---|

| 100kHz PSD reference Level | Channel Plot |
|---|---|
|  |  |
| Date: 20.JUN.2025 19:03:13 | Date: 20.JUN.2025 19:04:56 |
| **Spurious Emission Plot-1** | **Spurious Emission Plot-2** |
|  |  |
| Date: 20.JUN.2025 19:03:30 | Date: 20.JUN.2025 19:04:45 |

| Test Mode : | 802.11ac VHT40 | Test Channel : | 06 |
|---|---|---|---|

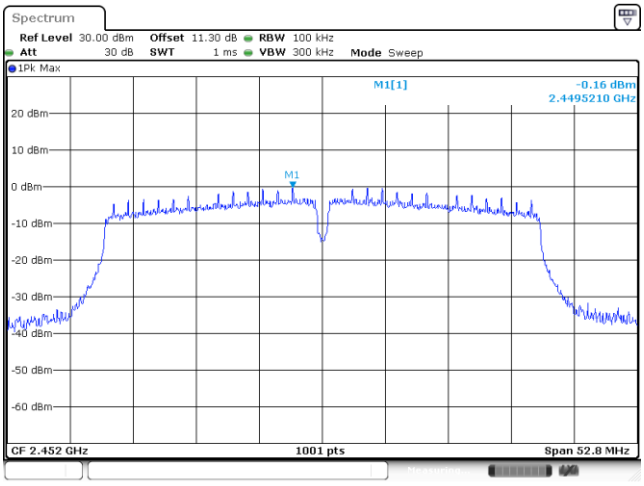
| 100kHz PSD reference Level | Channel Plot |
|---|---|
|  | |



| Spurious Emission Plot-1 | Spurious Emission Plot-2 |
|---|---|
|  |  |

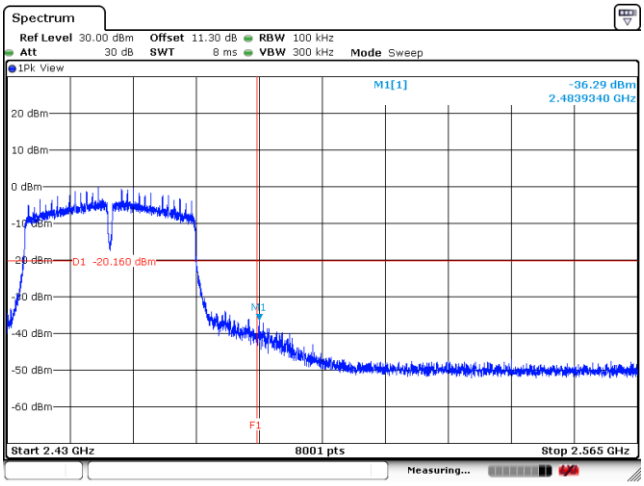
| Test Mode : | 802.11ac VHT40 | Test Channel : | 09 |
|---|---|---|---|

**100kHz PSD reference Level**



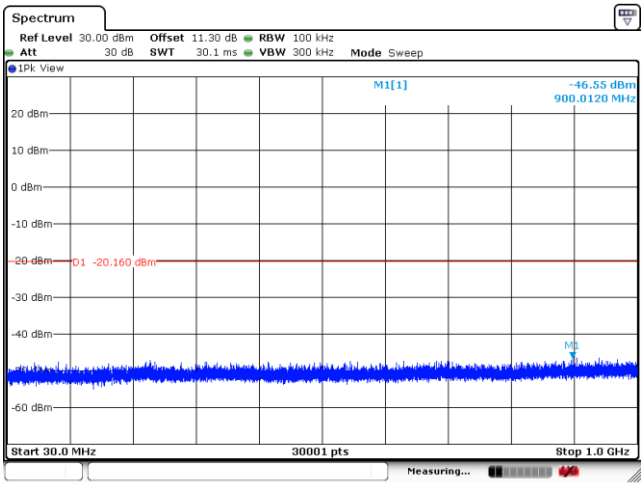

Date: 20.JUN.2025 19:07:56

**Channel Plot**



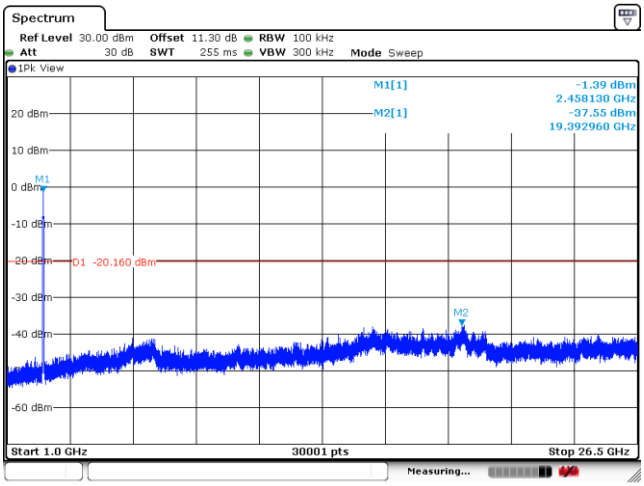

Date: 20.JUN.2025 19:08:39

**Spurious Emission Plot-1**




Date: 20.JUN.2025 19:08:13

**Spurious Emission Plot-2**




Date: 20.JUN.2025 19:08:29

## 3.5 Radiated Band Edges and Spurious Emission Measurement

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

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

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

### 3.5.2 Measuring Instruments

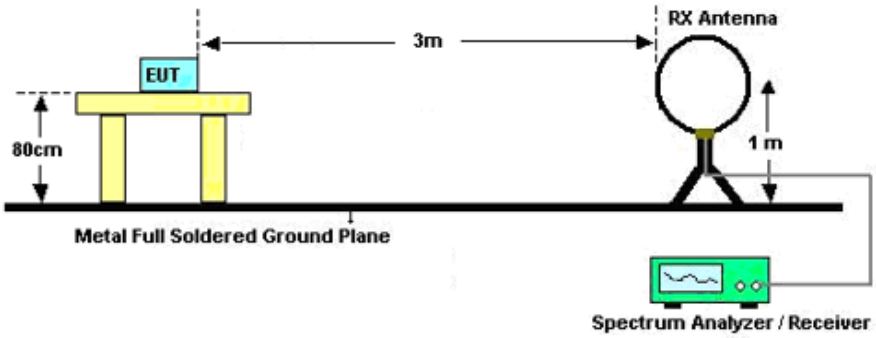
The measuring equipment is listed in the section 4 of this test report.

### 3.5.3 Test Procedures

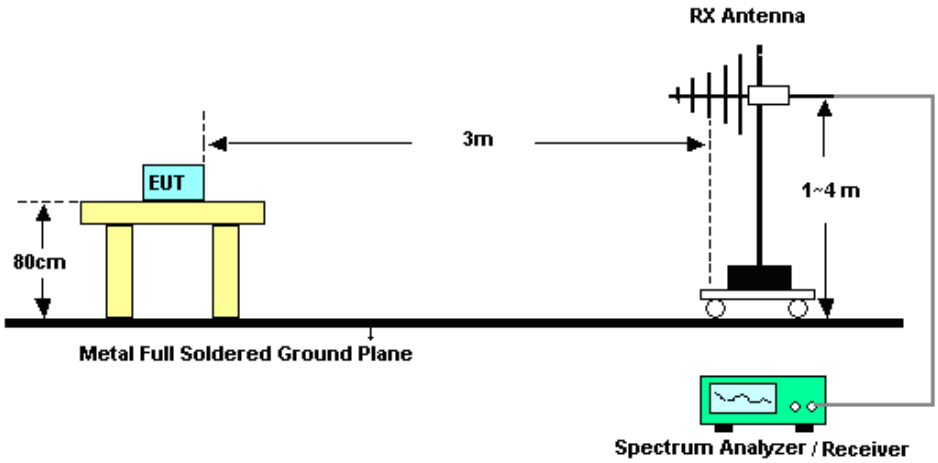
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

### 3.5.4 Test Setup

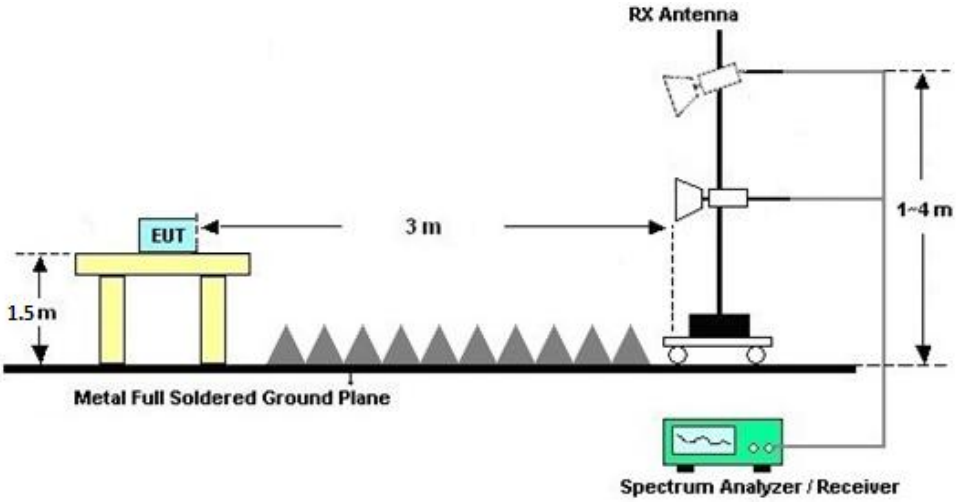
**For radiated emissions below 30MHz**




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




**For radiated emissions above 1GHz**



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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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

Please refer to Appendix C.

### 3.5.7 Duty Cycle

Please refer to Appendix D.

### 3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.

## 3.6 AC Conducted Emission Measurement

### 3.6.1 Limit of AC Conducted Emission

For equipment 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.

| Frequency of Emission (MHz) | Conducted Limit (dBµV) | |
|---|---|---|
| | Quasi-Peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

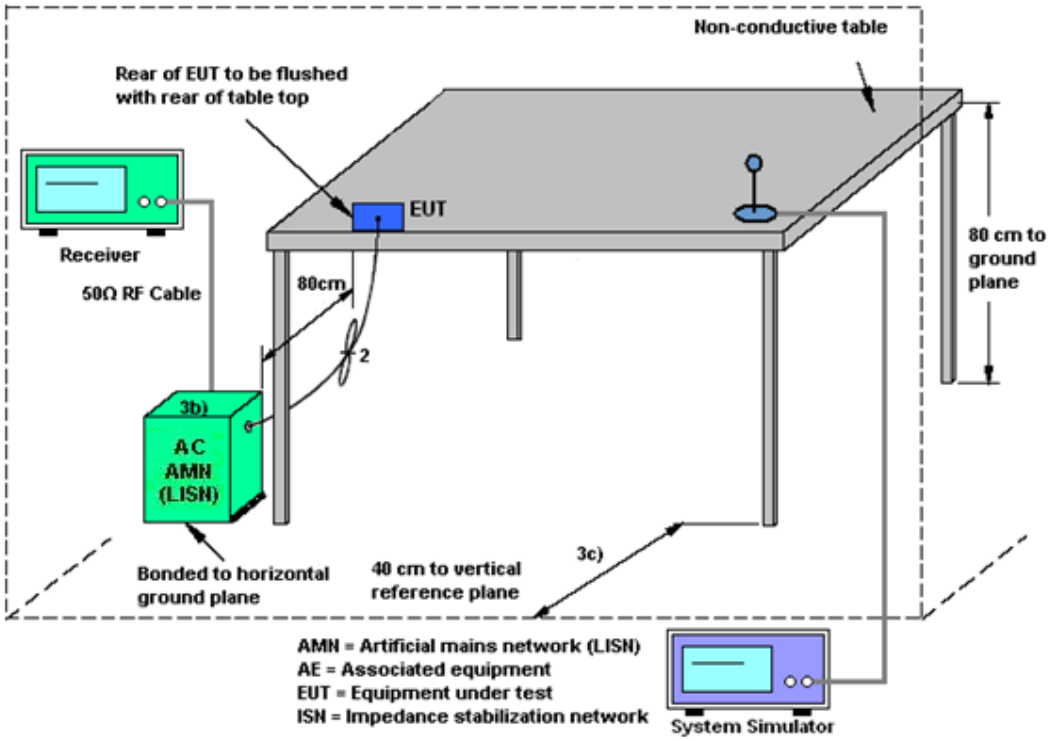
### 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

### 3.6.4 Test Setup




### 3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

## 3.7 Antenna Requirements

### 3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

### 3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

### 3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

# 4 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| EMI Test Receiver&SA | Agilent | N9038A | MY52260185 | 20Hz~26.5GHz | Dec. 25, 2024 | Jun. 22, 2025~ Jul. 03, 2025 | Dec. 24, 2025 | Radiation (03CH01-SZ) |
| EXA Spectrum Analyzer | KEYSIGHT | N9010A | MY55150213 | 10Hz~44GHz | Jul. 03, 2024 | Jun. 22, 2025~ Jul. 03, 2025 | Jul. 02, 2025 | Radiation (03CH01-SZ) |
| EXA Spectrum Analyzer | KEYSIGHT | N9010A | MY55150213 | 10Hz~44GHz | Jul. 03, 2025 | | Jul. 02, 2026 | Radiation (03CH01-SZ) |
| Loop Antenna | R&S | HFH2-Z2E | 101141 | 9kHz~30MHz | Dec. 28, 2024 | Jun. 22, 2025~ Jul. 03, 2025 | Dec. 27, 2025 | Radiation (03CH01-SZ) |
| Bilog Antenna | TeseQ | CBL6112D | 35407 | 30MHz-2GHz | Oct. 24, 2023 | Jun. 22, 2025~ Jul. 03, 2025 | Oct. 23, 2025 | Radiation (03CH01-SZ) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117 | 00119436 | 1GHz~18GHz | Jul. 04, 2024 | Jun. 22, 2025~ Jul. 03, 2025 | Jul. 03, 2025 | Radiation (03CH01-SZ) |
| SHF-EHF Horn | com-power | AH-840 | 101071 | 18Ghz-40GHz | Apr. 03,2025 | Jun. 22, 2025~ Jul. 03, 2025 | Apr. 02,2027 | Radiation (03CH01-SZ) |
| LF Amplifier | EM Electronics | EM330 | 060788 | 20MHz-3GHz | Dec. 25, 2024 | Jun. 22, 2025~ Jul. 03, 2025 | Dec. 24, 2025 | Radiation (03CH01-SZ) |
| HF Amplifier | MITEQ | AMF-7D-00101800-30-10P-R | 1943528 | 1GHz~18GHz | Oct. 14,2024 | Jun. 22, 2025~ Jul. 03, 2025 | Oct. 13,2025 | Radiation (03CH01-SZ) |
| HF Amplifier | KEYSIGHT | 83017A | MY53270105 | 0.5GHz~26.5Ghz | Oct. 14,2024 | Jun. 22, 2025~ Jul. 03, 2025 | Oct. 13,2025 | Radiation (03CH01-SZ) |
| HF Amplifier | MITEQ | TTA1840-35-HG | 1871923 | 18GHz~40GHz | Jul. 03, 2024 | Jun. 22, 2025~ Jul. 03, 2025 | Jul. 02, 2025 | Radiation (03CH01-SZ) |
| HF Amplifier | MITEQ | TTA1840-35-HG | 1871923 | 18GHz~40GHz | Jul. 03, 2025 | | Jul. 02, 2026 | Radiation (03CH01-SZ) |
| AC Power Source | Chroma | 61601 | 616010001985 | N/A | Oct. 14,2024 | Jun. 22, 2025~ Jul. 03, 2025 | Oct. 13,2025 | Radiation (03CH01-SZ) |
| Turn Table | EM | EM1000 | N/A | 0~360 degree | NCR | Jun. 22, 2025~ Jul. 03, 2025 | NCR | Radiation (03CH01-SZ) |
| Antenna Mast | EM | EM1000 | N/A | 1 m~4 m | NCR | Jun. 22, 2025~ Jul. 03, 2025 | NCR | Radiation (03CH01-SZ) |
| EMI Receiver | R&S | ESR7 | 102297 | 9kHz~7GHz; | Jul. 03, 2024 | Jun. 21, 2025 | Jul. 02, 2025 | Conduction (CO02-SZ) |
| AC LISN | R&S | ENV216 | 101499 | 9kHz~30MHz | Jul. 03, 2024 | Jun. 21, 2025 | Jul. 02, 2025 | Conduction (CO02-SZ) |
| AC Power Source | CHROMA | 61601 | 616010002470 | 100Vac~250Vac | Dec.25, 2024 | Jun. 21, 2025 | Dec. 24, 2025 | Conduction (CO02-SZ) |
| Thermo meter | Anymetre | JR593 | #14 | - 10℃ ~ 50℃ 10%RH~99%RH | Jul. 05, 2024 | Jun. 21, 2025 | Jul. 04, 2025 | Conduction (CO02-SZ) |
| Spectrum Analyzer | R&S | FSV40 | 101078 | 10Hz~40GHz | Apr. 02, 2025 | Jun. 20, 2025 | Apr. 01, 2026 | Conducted (TH01-SZ) |
| Pulse Power Senor | Anritsu | MA2411B | 1339473 | 30MHz~40GHz | Dec. 25, 2024 | Jun. 20, 2025 | Dec. 24, 2025 | Conducted (TH01-SZ) |
| Power Meter | Anritsu | ML2495A | 1218010 | 50MHz Bandwidth | Oct. 14, 2024 | Jun. 20, 2025 | Oct. 13, 2025 | Conducted (TH01-SZ) |
| Thermo meter | Anymetre | JR593 | #7 | - 10℃ ~ 50℃ 10%RH~99%RH | Apr. 03, 2025 | Jun. 20, 2025 | Apr. 02, 2026 | Conducted (TH01-SZ) |

NCR: No Calibration Required

# 5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

**Uncertainty of Conducted Measurement**

| Test Item | Uncertainty |
|---|---|
| Conducted Spurious Emission & Bandedge | ±1.34 dB |
| Occupied Channel Bandwidth | ±0.012 MHz |
| Conducted Power | ±1.34 dB |
| Conducted Power Spectral Density | ±1.32 dB |
| Frequency | ±1.3 Hz |

**Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)**

| | |
|---|---|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.5 dB |

**Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)**

| | |
|---|---|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.8 dB |

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

| | |
|---|---|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 4.2 dB |

**Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)**

| | |
|---|---|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.0 dB |

**Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)**

| | |
|---|---|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 4.3 dB |

---------- THE END ----------

# Appendix A. Conducted Test Results

# Appendix A. Test Result of Conducted Test Items

| | | | | |
|---|---|---|---|---|
| Test Engineer: | HuangKaibiao | Temperature: | 21~25 | °C |
| Test Date: | 2025/6/20 | Relative Humidity: | 51~54 | % |

## ***TEST RESULTS DATA***
## ***6dB and 99% Occupied Bandwidth***

| 2.4GHz Band | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
| | | | | | Ant 1 | Ant 1 | | |
| 11b | 1Mbps | 1 | 1 | 2412 | 12.85 | 8.10 | 0.50 | Pass |
| 11b | 1Mbps | 1 | 6 | 2437 | 12.92 | 8.10 | 0.50 | Pass |
| 11b | 1Mbps | 1 | 11 | 2462 | 13.09 | 8.10 | 0.50 | Pass |
| 11g | 6Mbps | 1 | 1 | 2412 | 16.73 | 15.38 | 0.50 | Pass |
| 11g | 6Mbps | 1 | 6 | 2437 | 17.12 | 15.16 | 0.50 | Pass |
| 11g | 6Mbps | 1 | 11 | 2462 | 17.25 | 15.16 | 0.50 | Pass |
| VHT20 | MCS0 | 1 | 1 | 2412 | 17.73 | 15.16 | 0.50 | Pass |
| VHT20 | MCS0 | 1 | 6 | 2437 | 18.08 | 15.16 | 0.50 | Pass |
| VHT20 | MCS0 | 1 | 11 | 2462 | 18.22 | 15.18 | 0.50 | Pass |
| VHT40 | MCS0 | 1 | 3 | 2422 | 36.40 | 35.20 | 0.50 | Pass |
| VHT40 | MCS0 | 1 | 6 | 2437 | 36.60 | 35.24 | 0.50 | Pass |
| VHT40 | MCS0 | 1 | 9 | 2452 | 36.21 | 35.20 | 0.50 | Pass |

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

| 2.4GHz Band | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Setting |
| | | | | | Ant 6 | Ant 6 | Ant 6 | Ant 6 | Ant 6 | | Ant 6 |
| 11b | 1Mbps | 1 | 1 | 2412 | 18.00 | 30.00 | -0.76 | 17.24 | 36.00 | Pass | 18.00 |
| 11b | 1Mbps | 1 | 6 | 2437 | 18.10 | 30.00 | -0.76 | 17.34 | 36.00 | Pass | 18.00 |
| 11b | 1Mbps | 1 | 11 | 2462 | 18.00 | 30.00 | -0.76 | 17.24 | 36.00 | Pass | 18.50 |
| 11g | 6Mbps | 1 | 1 | 2412 | 14.20 | 30.00 | -0.76 | 13.44 | 36.00 | Pass | 14.50 |
| 11g | 6Mbps | 1 | 6 | 2437 | 17.10 | 30.00 | -0.76 | 16.34 | 36.00 | Pass | 18.00 |
| 11g | 6Mbps | 1 | 10 | 2457 | 15.60 | 30.00 | -0.76 | 14.84 | 36.00 | Pass | 16.50 |
| 11g | 6Mbps | 1 | 11 | 2462 | 14.10 | 30.00 | -0.76 | 13.34 | 36.00 | Pass | 14.50 |
| HT20 | MCS0 | 1 | 1 | 2412 | 13.90 | 30.00 | -0.76 | 13.14 | 36.00 | Pass | 14.50 |
| HT20 | MCS0 | 1 | 2 | 2417 | 16.20 | 30.00 | -0.76 | 15.44 | 36.00 | Pass | 17.00 |
| HT20 | MCS0 | 1 | 6 | 2437 | 17.00 | 30.00 | -0.76 | 16.24 | 36.00 | Pass | 18.00 |
| HT20 | MCS0 | 1 | 10 | 2457 | 15.40 | 30.00 | -0.76 | 14.64 | 36.00 | Pass | 16.50 |
| HT20 | MCS0 | 1 | 11 | 2462 | 13.20 | 30.00 | -0.76 | 12.44 | 36.00 | Pass | 14.00 |
| HT40 | MCS0 | 1 | 3 | 2422 | 13.10 | 30.00 | -0.76 | 12.34 | 36.00 | Pass | 13.50 |
| HT40 | MCS0 | 1 | 6 | 2437 | 13.80 | 30.00 | -0.76 | 13.04 | 36.00 | Pass | 14.50 |
| HT40 | MCS0 | 1 | 9 | 2452 | 11.00 | 30.00 | -0.76 | 10.24 | 36.00 | Pass | 11.50 |
| VHT20 | MCS0 | 1 | 1 | 2412 | 14.00 | 30.00 | -0.76 | 13.24 | 36.00 | Pass | 14.50 |
| VHT20 | MCS0 | 1 | 2 | 2417 | 16.30 | 30.00 | -0.76 | 15.54 | 36.00 | Pass | 17.00 |
| VHT20 | MCS0 | 1 | 6 | 2437 | 17.20 | 30.00 | -0.76 | 16.44 | 36.00 | Pass | 18.00 |
| VHT20 | MCS0 | 1 | 10 | 2457 | 15.50 | 30.00 | -0.76 | 14.74 | 36.00 | Pass | 16.50 |
| VHT20 | MCS0 | 1 | 11 | 2462 | 13.30 | 30.00 | -0.76 | 12.54 | 36.00 | Pass | 14.00 |
| VHT40 | MCS0 | 1 | 3 | 2422 | 13.20 | 30.00 | -0.76 | 12.44 | 36.00 | Pass | 13.50 |
| VHT40 | MCS0 | 1 | 6 | 2437 | 13.90 | 30.00 | -0.76 | 13.14 | 36.00 | Pass | 14.50 |
| VHT40 | MCS0 | 1 | 9 | 2452 | 11.20 | 30.00 | -0.76 | 10.44 | 36.00 | Pass | 11.50 |

Note: Measured power (dBm) has offset with cable loss.

# ***TEST RESULTS DATA***
## ***Peak Output Power***

| 2.4GHz Band | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
| | | | | | Ant 6 | Ant 6 | Ant 6 | Ant 6 | Ant 6 | |
| 11b | 1Mbps | 1 | 1 | 2412 | 19.62 | 30.00 | -0.76 | 18.86 | 36.00 | Pass |
| 11b | 1Mbps | 1 | 6 | 2437 | 19.85 | 30.00 | -0.76 | 19.09 | 36.00 | Pass |
| 11b | 1Mbps | 1 | 11 | 2462 | 19.92 | 30.00 | -0.76 | 19.16 | 36.00 | Pass |
| 11g | 6Mbps | 1 | 1 | 2412 | 22.87 | 30.00 | -0.76 | 22.11 | 36.00 | Pass |
| 11g | 6Mbps | 1 | 6 | 2437 | 24.30 | 30.00 | -0.76 | 23.54 | 36.00 | Pass |
| 11g | 6Mbps | 1 | 10 | 2457 | 23.32 | 30.00 | -0.76 | 22.56 | 36.00 | Pass |
| 11g | 6Mbps | 1 | 11 | 2462 | 22.45 | 30.00 | -0.76 | 21.69 | 36.00 | Pass |
| HT20 | MCS0 | 1 | 1 | 2412 | 22.42 | 30.00 | -0.76 | 21.66 | 36.00 | Pass |
| HT20 | MCS0 | 1 | 2 | 2417 | 23.70 | 30.00 | -0.76 | 22.94 | 36.00 | Pass |
| HT20 | MCS0 | 1 | 6 | 2437 | 24.20 | 30.00 | -0.76 | 23.44 | 36.00 | Pass |
| HT20 | MCS0 | 1 | 10 | 2457 | 22.77 | 30.00 | -0.76 | 22.01 | 36.00 | Pass |
| HT20 | MCS0 | 1 | 11 | 2462 | 21.84 | 30.00 | -0.76 | 21.08 | 36.00 | Pass |
| HT40 | MCS0 | 1 | 3 | 2422 | 22.10 | 30.00 | -0.76 | 21.34 | 36.00 | Pass |
| HT40 | MCS0 | 1 | 6 | 2437 | 22.55 | 30.00 | -0.76 | 21.79 | 36.00 | Pass |
| HT40 | MCS0 | 1 | 11 | 2462 | 20.80 | 30.00 | -0.76 | 20.04 | 36.00 | Pass |
| VHT20 | MCS0 | 1 | 1 | 2412 | 22.47 | 30.00 | -0.76 | 21.71 | 36.00 | Pass |
| VHT20 | MCS0 | 1 | 2 | 2417 | 23.72 | 30.00 | -0.76 | 22.96 | 36.00 | Pass |
| VHT20 | MCS0 | 1 | 6 | 2437 | 24.38 | 30.00 | -0.76 | 23.62 | 36.00 | Pass |
| VHT20 | MCS0 | 1 | 10 | 2457 | 22.80 | 30.00 | -0.76 | 22.04 | 36.00 | Pass |
| VHT20 | MCS0 | 1 | 11 | 2462 | 21.89 | 30.00 | -0.76 | 21.13 | 36.00 | Pass |
| VHT40 | MCS0 | 1 | 3 | 2422 | 22.12 | 30.00 | -0.76 | 21.36 | 36.00 | Pass |
| VHT40 | MCS0 | 1 | 6 | 2437 | 22.60 | 30.00 | -0.76 | 21.84 | 36.00 | Pass |
| VHT40 | MCS0 | 1 | 9 | 2452 | 20.84 | 30.00 | -0.76 | 20.08 | 36.00 | Pass |

Note: Measured power (dBm) has offset with cable loss.

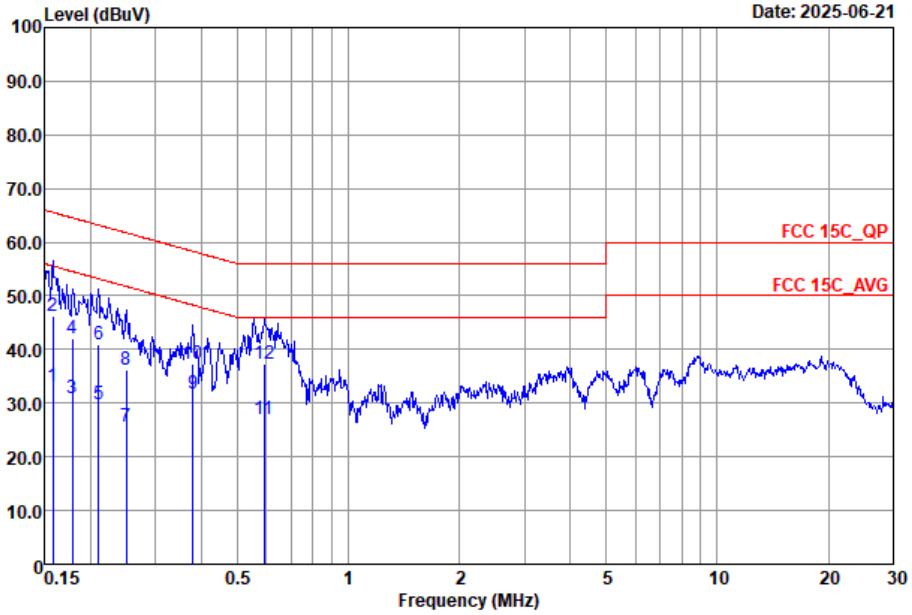
# ***TEST RESULTS DATA***
## ***Peak Power Spectral Density***

| 2.4GHz Band | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak PSD (dBm/3kHz) | DG (dBi) | Peak PSD Limit (dBm/3kHz) | Pass/Fail |
| | | | | | Ant 1 | Ant 1 | Ant 1 | |
| 11b | 1Mbps | 1 | 1 | 2412 | -4.64 | -0.76 | 8.00 | Pass |
| 11b | 1Mbps | 1 | 6 | 2437 | -5.14 | -0.76 | 8.00 | Pass |
| 11b | 1Mbps | 1 | 11 | 2462 | -4.60 | -0.76 | 8.00 | Pass |
| 11g | 6Mbps | 1 | 1 | 2412 | -10.96 | -0.76 | 8.00 | Pass |
| 11g | 6Mbps | 1 | 6 | 2437 | -6.79 | -0.76 | 8.00 | Pass |
| 11g | 6Mbps | 1 | 11 | 2462 | -7.53 | -0.76 | 8.00 | Pass |
| VHT20 | MCS0 | 1 | 1 | 2412 | -10.82 | -0.76 | 8.00 | Pass |
| VHT20 | MCS0 | 1 | 6 | 2437 | -8.36 | -0.76 | 8.00 | Pass |
| VHT20 | MCS0 | 1 | 11 | 2462 | -7.68 | -0.76 | 8.00 | Pass |
| VHT40 | MCS0 | 1 | 3 | 2422 | -14.05 | -0.76 | 8.00 | Pass |
| VHT40 | MCS0 | 1 | 6 | 2437 | -12.07 | -0.76 | 8.00 | Pass |
| VHT40 | MCS0 | 1 | 9 | 2452 | -15.28 | -0.76 | 8.00 | Pass |

Measured power density (dBm) has offset with cable loss.

# Appendix B. AC Conducted Emission Test Results

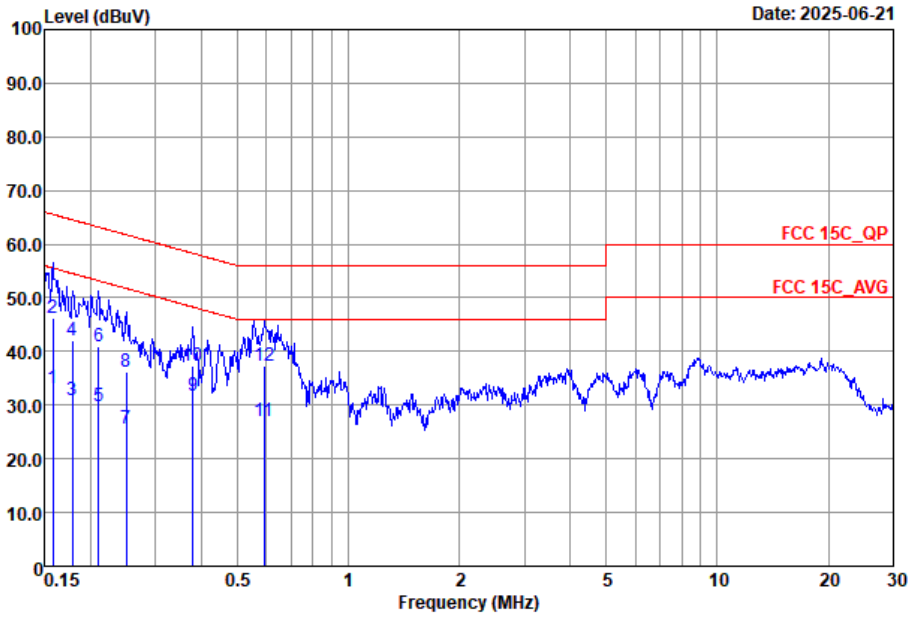
| | | | |
|---|---|---|---|
| **Test Engineer :** | Nathon | **Temperature :** | 22~24℃ |
| | | **Relative Humidity :** | 44~50% |
| **Test Voltage :** | 120Vac / 60Hz | **Phase :** | Line |
| **Remark :** | All emissions not reported here are more than 10 dB below the prescribed limit. | | |




Site : CO02-SZ
Condition : FCC 15C_QP LISN_2025-L LINE

| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | 0.16 | 33.25 | -22.31 | 55.56 | 13.39 | 9.67 | 10.19 | Average |
| 2 | 0.16 | 46.15 | -19.41 | 65.56 | 26.29 | 9.67 | 10.19 | QP |
| 3 | 0.18 | 30.87 | -23.68 | 54.55 | 11.00 | 9.69 | 10.18 | Average |
| 4 | 0.18 | 41.97 | -22.58 | 64.55 | 22.10 | 9.69 | 10.18 | QP |
| 5 | 0.21 | 29.80 | -23.38 | 53.18 | 9.91 | 9.71 | 10.18 | Average |
| 6 | 0.21 | 40.90 | -22.28 | 63.18 | 21.01 | 9.71 | 10.18 | QP |
| 7 | 0.25 | 25.71 | -26.02 | 51.73 | 5.80 | 9.72 | 10.19 | Average |
| 8 | 0.25 | 36.21 | -25.52 | 61.73 | 16.30 | 9.72 | 10.19 | QP |
| 9 | 0.38 | 31.84 | -16.46 | 48.30 | 11.90 | 9.72 | 10.22 | Average |
| 10 | 0.38 | 37.34 | -20.96 | 58.30 | 17.40 | 9.72 | 10.22 | QP |
| 11 | 0.59 | 27.10 | -18.90 | 46.00 | 7.20 | 9.66 | 10.24 | Average |
| 12 * | 0.59 | 37.20 | -18.80 | 56.00 | 17.30 | 9.66 | 10.24 | QP |

| | | | |
|---|---|---|---|
| **Test Engineer :** | Nathon | **Temperature :** | 22~24℃ |
| | | **Relative Humidity :** | 44~50% |
| **Test Voltage :** | 120Vac / 60Hz | **Phase :** | Neutral |
| **Remark :** | All emissions not reported here are more than 10 dB below the prescribed limit. | | |




Site : CO02-SZ
Condition : FCC 15C_QP LISN_2025-L LINE

| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | 0.16 | 33.25 | -22.31 | 55.56 | 13.39 | 9.67 | 10.19 | Average |
| 2 | 0.16 | 46.15 | -19.41 | 65.56 | 26.29 | 9.67 | 10.19 | QP |
| 3 | 0.18 | 30.87 | -23.68 | 54.55 | 11.00 | 9.69 | 10.18 | Average |
| 4 | 0.18 | 41.97 | -22.58 | 64.55 | 22.10 | 9.69 | 10.18 | QP |
| 5 | 0.21 | 29.80 | -23.38 | 53.18 | 9.91 | 9.71 | 10.18 | Average |
| 6 | 0.21 | 40.90 | -22.28 | 63.18 | 21.01 | 9.71 | 10.18 | QP |
| 7 | 0.25 | 25.71 | -26.02 | 51.73 | 5.80 | 9.72 | 10.19 | Average |
| 8 | 0.25 | 36.21 | -25.52 | 61.73 | 16.30 | 9.72 | 10.19 | QP |
| 9 | 0.38 | 31.84 | -16.46 | 48.30 | 11.90 | 9.72 | 10.22 | Average |
| 10 | 0.38 | 37.34 | -20.96 | 58.30 | 17.40 | 9.72 | 10.22 | QP |
| 11 | 0.59 | 27.10 | -18.90 | 46.00 | 7.20 | 9.66 | 10.24 | Average |
| 12 * | 0.59 | 37.20 | -18.80 | 56.00 | 17.30 | 9.66 | 10.24 | QP |

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

# Appendix C Radiated Spurious Emission Test Data

| Test Engineer : | HuaCong Liang | Relative Humidity : | 48~49% |
|---|---|---|---|
| | | Temperature : | 24-25℃ |

## Radiated Spurious Emission Test Modes

| Mode | Band (MHz) | Antenna | Modulation | Channel | Frequency | Data Rate | RU | Remark |
|---|---|---|---|---|---|---|---|---|
| Mode 1 | 2400-2483.5 | 6 | 802.11b | 01 | 2412 | 1Mbps | - | - |
| Mode 2 | 2400-2483.5 | 6 | 802.11b | 06 | 2437 | 1Mbps | - | - |
| Mode 3 | 2400-2483.5 | 6 | 802.11b | 11 | 2462 | 1Mbps | - | - |
| Mode 4 | 2400-2483.5 | 6 | 802.11g | 01 | 2412 | 6Mbps | - | - |
| Mode 5 | 2400-2483.5 | 6 | 802.11g | 06 | 2437 | 6Mbps | - | - |
| Mode 6 | 2400-2483.5 | 6 | 802.11g | 11 | 2462 | 6Mbps | - | - |
| Mode 7 | 2400-2483.5 | 6 | 802.11ac VHT20 | 01 | 2412 | MCS0 | - | - |
| Mode 8 | 2400-2483.5 | 6 | 802.11ac VHT20 | 06 | 2437 | MCS0 | - | - |
| Mode 9 | 2400-2483.5 | 6 | 802.11ac VHT20 | 11 | 2462 | MCS0 | - | - |
| Mode 10 | 2400-2483.5 | 6 | 802.11ac VHT40 | 03 | 2422 | MCS0 | - | - |
| Mode 11 | 2400-2483.5 | 6 | 802.11ac VHT40 | 09 | 2452 | MCS0 | - | - |
| Mode 12 | 2400-2483.5 | 6 | 802.11g | 11 | 2462 | 6Mbps | - | LF |
| Mode 13 | 2400-2483.5 | 6 | 802.11g | 06 | 2437 | 6Mbps | - | - |
| Mode 14 | 2400-2483.5 | 6 | 802.11ac VHT20 | 06 | 2437 | MCS0 | - | - |
| Mode 15 | 2400-2483.5 | 6 | 802.11g | 10 | 2457 | 6Mbps | - | - |
| Mode 16 | 2400-2483.5 | 6 | 802.11ac VHT20 | 02 | 2417 | MCS0 | - | - |
| Mode 17 | 2400-2483.5 | 6 | 802.11ac VHT20 | 10 | 2457 | MCS0 | - | - |
| Mode 18 | 2400-2483.5 | 6 | 802.11ac VHT40 | 06 | 2437 | MCS0 | - | - |
| Mode 19 | 2400-2483.5 | 6 | 802.11ac VHT40 | 08 | 2447 | MCS0 | - | - |
| Mode 20 | 2400-2483.5 | 6 | 802.11ac VHT40 | 07 | 2442 | MCS0 | - | - |

## Co-location

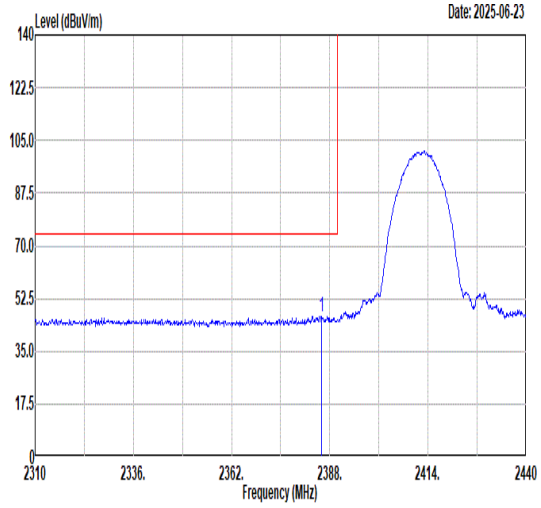
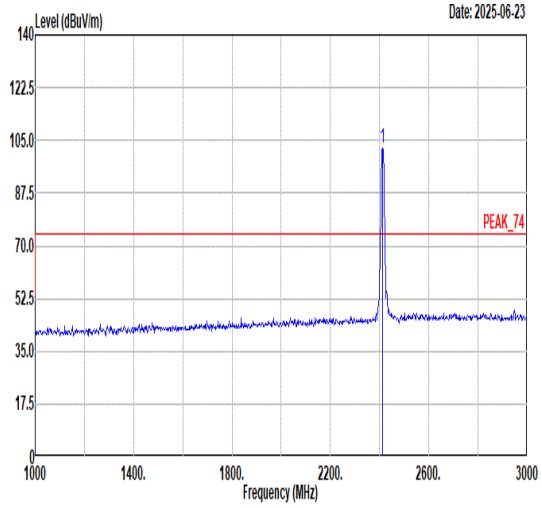
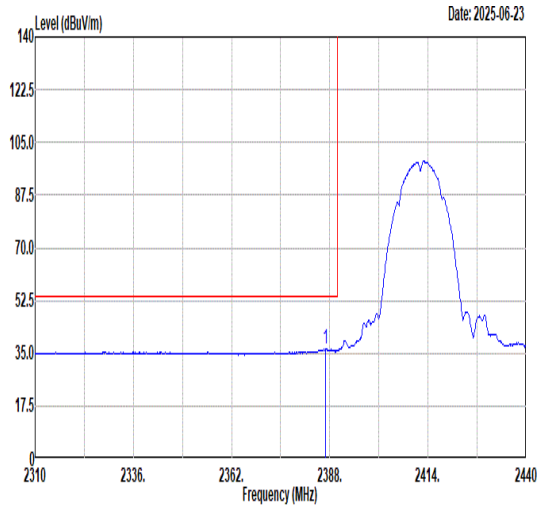
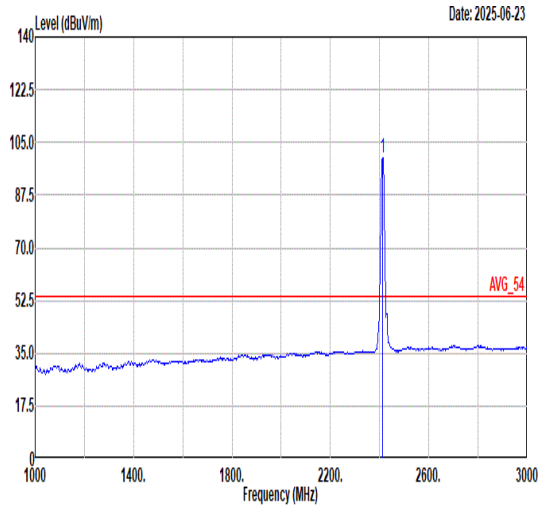
| Mode | Band (MHz) | Antenna | Modulation | Channel | Frequency | Data Rate | RU | Remark |
|---|---|---|---|---|---|---|---|---|
| Mode 21 | CO-TX | 6 | 802.11g | 11 | 2462 | 6Mbps | - | - |
| | | 0 | LTE | Bnad13 | - | BW5M | | - |

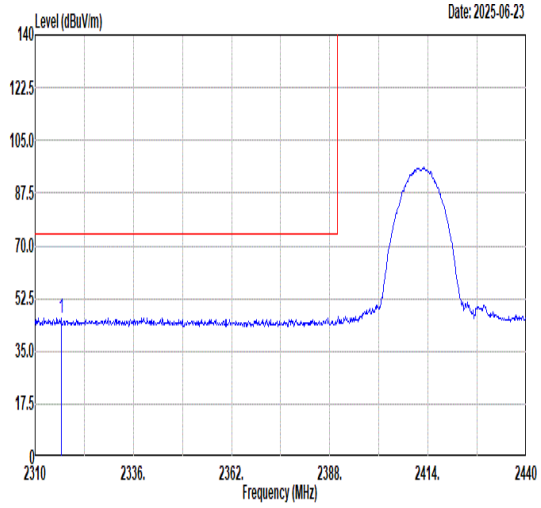
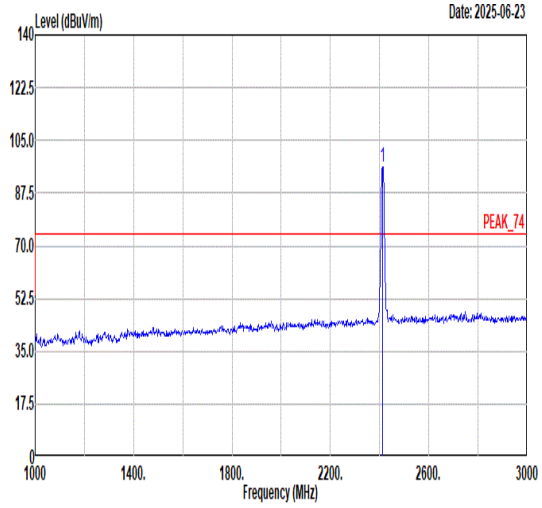
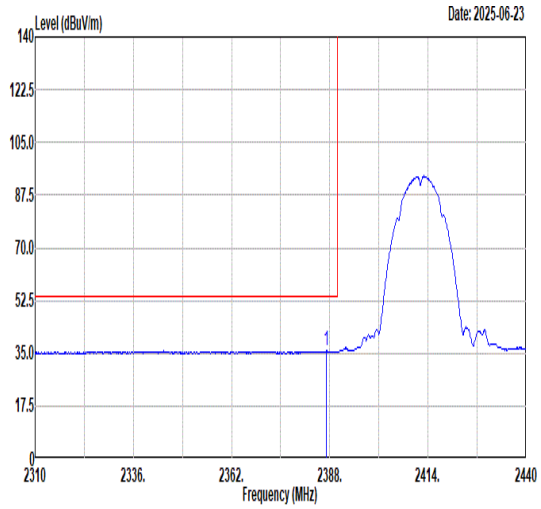
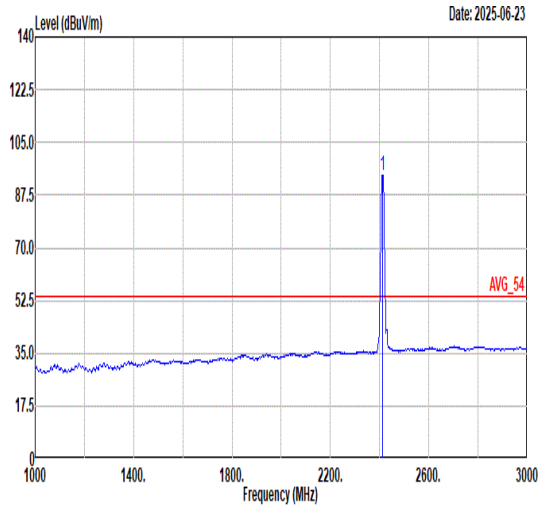
## Summary of each worse mode

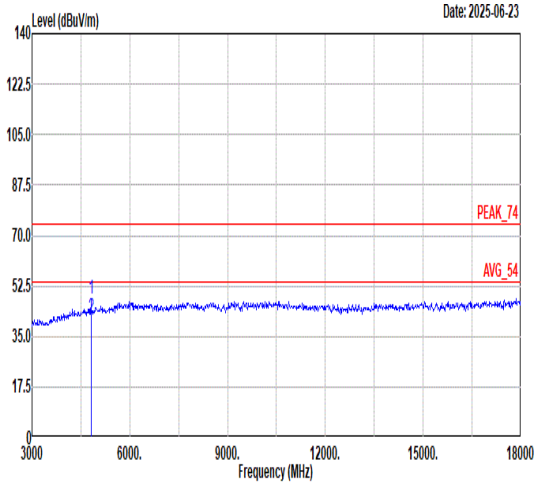
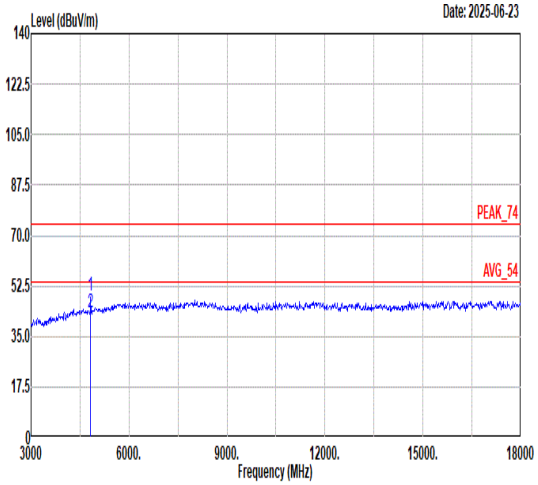
| Mode | Modulation | Ch. | Freq. (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pol. | Peak Avg. | Result | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 802.11b | 01 | 2386.83 | 36.31 | 54.00 | -17.69 | H | AVERAGE | Pass | Band Edge |
| 1 | 802.11b | 01 | 4824.00 | 43.22 | 54.00 | -10.78 | V | Average | Pass | Harmonic |
| 2 | 802.11b | 06 | - | - | - | - | - | - | - | Band Edge |
| 2 | 802.11b | 06 | 4874.00 | 42.16 | 54.00 | -11.84 | V | Average | Pass | Harmonic |
| 3 | 802.11b | 11 | 2487.46 | 41.89 | 54.00 | -12.11 | H | AVERAGE | Pass | Band Edge |
| 3 | 802.11b | 11 | 4924.00 | 43.74 | 54.00 | -10.26 | V | Average | Pass | Harmonic |
| 4 | 802.11g | 01 | 2389.95 | 42.86 | 54.00 | -11.14 | H | AVERAGE | Pass | Band Edge |
| 4 | 802.11g | 01 | 4824.00 | 44.04 | 74.00 | -29.96 | V | Peak | Pass | Harmonic |
| 5 | 802.11g | 06 | - | - | - | - | - | - | - | Band Edge |
| 5 | 802.11g | 06 | 7311.00 | 45.32 | 74.00 | -28.68 | V | Peak | Pass | Harmonic |
| 6 | 802.11g | 11 | 2483.62 | 48.43 | 54.00 | -5.57 | H | AVERAGE | Pass | Band Edge |
| 6 | 802.11g | 11 | 7386.00 | 46.68 | 74.00 | -27.32 | H | Peak | Pass | Harmonic |
| 7 | 802.11ac VHT20 | 01 | 2389.82 | 45.96 | 54.00 | -8.04 | H | AVERAGE | Pass | Band Edge |
| 7 | 802.11ac VHT20 | 01 | 4824.00 | 43.85 | 74.00 | -30.15 | V | Peak | Pass | Harmonic |
| 8 | 802.11ac VHT20 | 06 | - | - | - | - | - | - | - | Band Edge |
| 8 | 802.11ac VHT20 | 06 | 7311.00 | 45.99 | 74.00 | -28.01 | V | Peak | Pass | Harmonic |
| 9 | 802.11ac VHT20 | 11 | 2483.62 | 47.22 | 54.00 | -6.78 | H | AVERAGE | Pass | Band Edge |
| 9 | 802.11ac VHT20 | 11 | 7386.00 | 45.13 | 74.00 | -28.87 | V | Peak | Pass | Harmonic |
| 10 | 802.11ac VHT40 | 03 | 2389.97 | 46.64 | 54.00 | -7.36 | H | AVERAGE | Pass | Band Edge |
| 10 | 802.11ac VHT40 | 03 | - | - | - | - | - | - | - | Harmonic |
| 11 | 802.11ac VHT40 | 09 | 2483.58 | 47.66 | 54.00 | -6.34 | H | AVERAGE | Pass | Band Edge |
| 11 | 802.11ac VHT40 | 09 | - | - | - | - | - | - | - | Harmonic |
| 12 | 802.11g | 11 | 34.85 | 60.35 | 40.00 | -9.65 | V | Peak | Pass | LF |
| 13 | 802.11g | 06 | 2483.81 | 39.03 | 54.00 | -14.97 | H | AVERAGE | Pass | Band Edge |
| 13 | 802.11g | 06 | - | - | - | - | - | - | - | Harmonic |
| 14 | 802.11ac VHT20 | 06 | 2483.75 | 40.86 | 54.00 | -13.14 | H | AVERAGE | Pass | Band Edge |
| 14 | 802.11ac VHT20 | 06 | - | - | - | - | - | - | - | Harmonic |
| 15 | 802.11g | 10 | 2483.66 | 48.29 | 54.00 | -5.71 | H | AVERAGE | Pass | Band Edge |
| 15 | 802.11g | 10 | - | - | - | - | - | - | - | Harmonic |
| 16 | 802.11ac VHT20 | 02 | 2389.69 | 47.86 | 54.00 | -6.14 | H | AVERAGE | Pass | Band Edge |
| 16 | 802.11ac VHT20 | 02 | - | - | - | - | - | - | - | Harmonic |
| 17 | 802.11ac VHT20 | 10 | 2483.62 | 48.15 | 54.00 | -5.85 | H | AVERAGE | Pass | Band Edge |
| 17 | 802.11ac VHT20 | 10 | - | - | - | - | - | - | - | Harmonic |
| 18 | 802.11ac VHT40 | 06 | 2483.87 | 47.36 | 54.00 | -6.64 | H | AVERAGE | Pass | Band Edge |
| 18 | 802.11ac VHT40 | 06 | - | - | - | - | - | - | - | Harmonic |
| 19 | 802.11ac VHT40 | 08 | 2483.78 | 46.86 | 54.00 | -7.14 | H | AVERAGE | Pass | Band Edge |
| 19 | 802.11ac VHT40 | 08 | - | - | - | - | - | - | - | Harmonic |
| 20 | 802.11ac VHT40 | 07 | 2484.06 | 48.09 | 54.00 | -5.91 | H | AVERAGE | Pass | Band Edge |
| 20 | 802.11ac VHT40 | 07 | - | - | - | - | - | - | - | Harmonic |

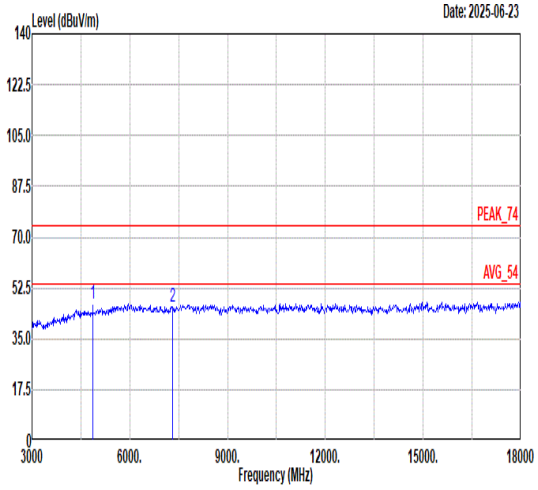
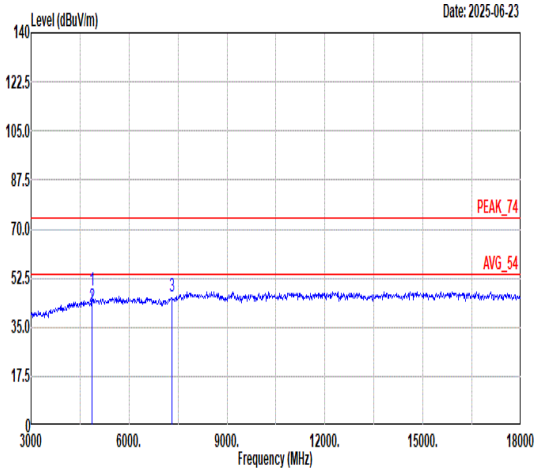
## Co-location

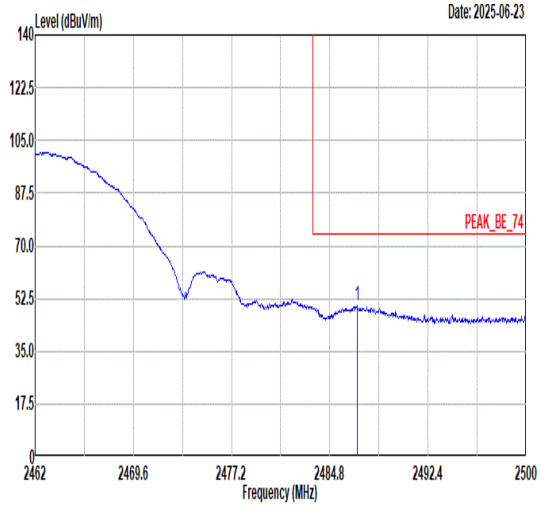
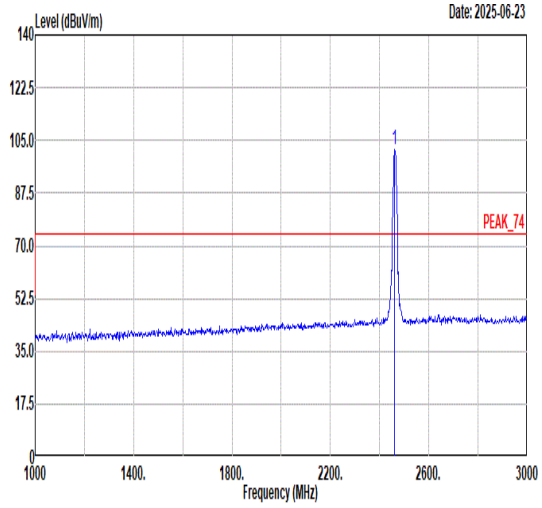
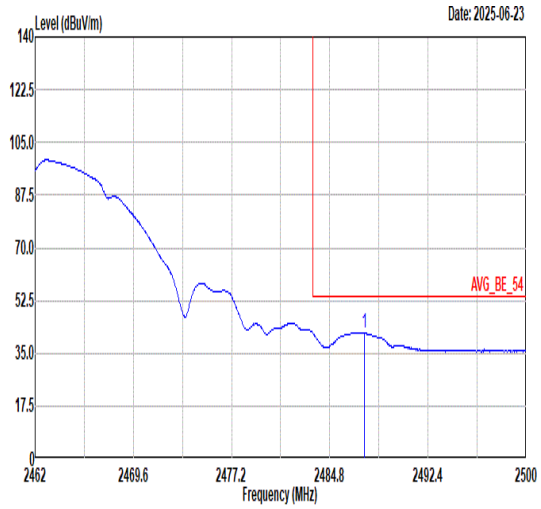
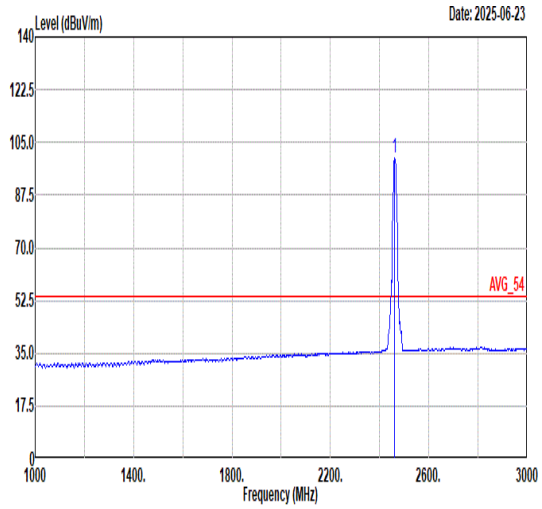
| Mode | Modulation | Ch. | Freq. (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pol. | Peak Avg. | Result | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 21 | 802.11g | 11 | 2483.51 | 47.12 | 54.00 | -6.88 | H | AVERAGE | Pass | Band Edge |
| 21 | 802.11g | 11 | 7386.00 | 45.45 | 74.00 | -28.55 | V | Peak | Pass | Harmonic |

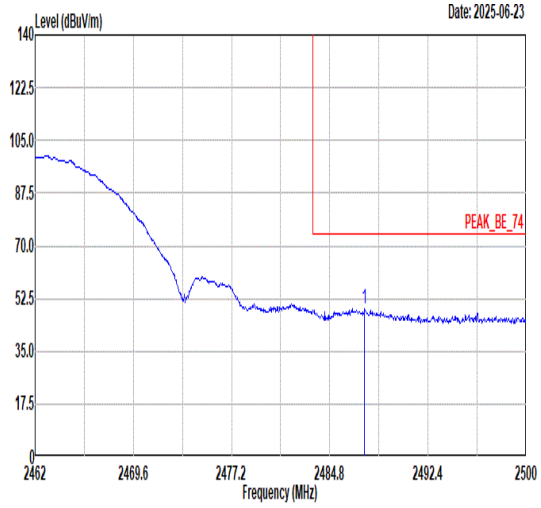
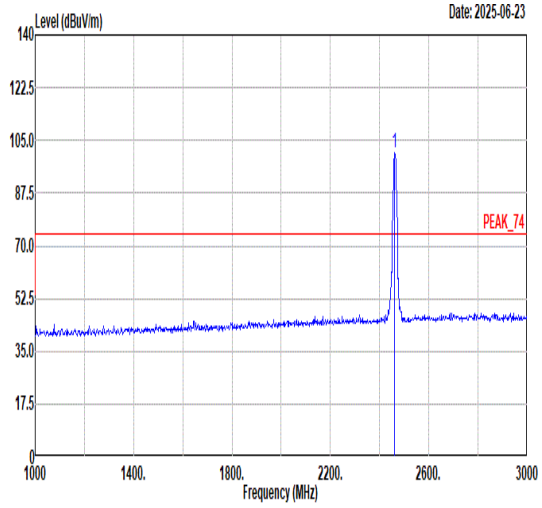
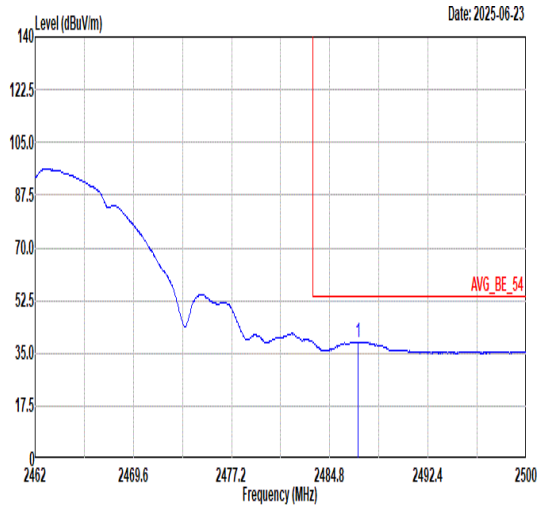
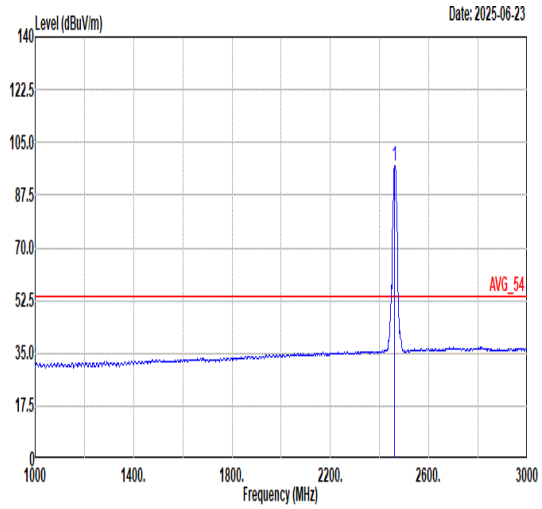
| Mode | 1 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11b_CH01_2412MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2385.79 46.52 74.00 -27.48 41.71 30.60 6.86 32.65 301 23 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2412.00 102.29 ------ ------ 97.42 30.62 6.89 32.64 301 23 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2386.83 36.31 54.00 -17.69 31.50 30.60 6.86 32.65 301 23 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2412.00 99.59 ------ ------ 94.72 30.62 6.89 32.64 301 23 AVERAGE |

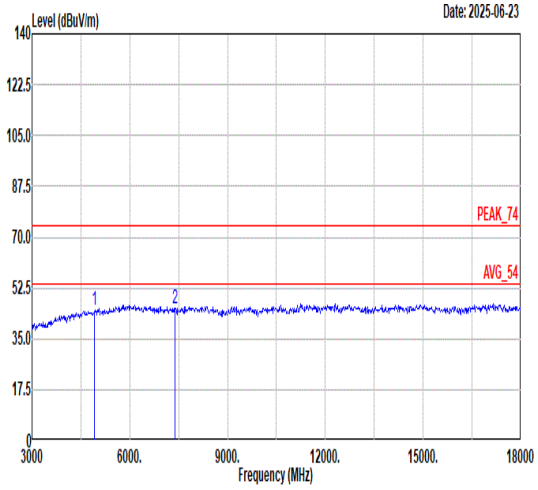
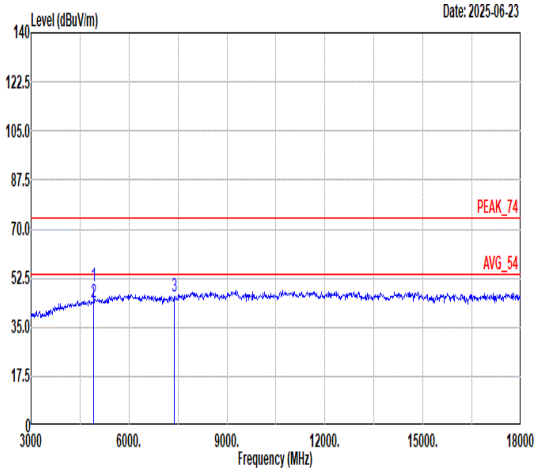
| Mode | 1 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11b_CH01_2412MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2316.89 46.00 74.00 -28.00 41.28 30.60 6.79 32.67 313 343 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2412.00 96.25 ------ ------ 91.38 30.62 6.89 32.64 313 343 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2387.09 35.73 54.00 -18.27 30.92 30.60 6.86 32.65 313 343 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2412.00 94.18 ------ ------ 89.31 30.62 6.89 32.64 313 343 AVERAGE |

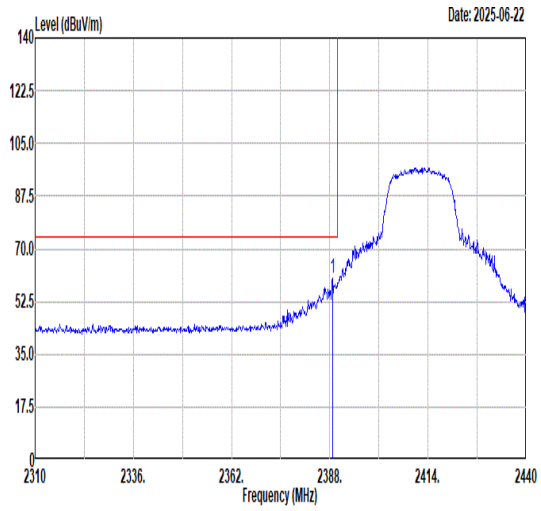
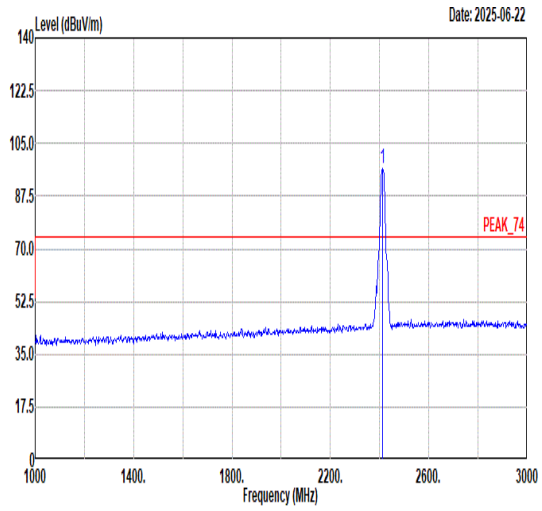
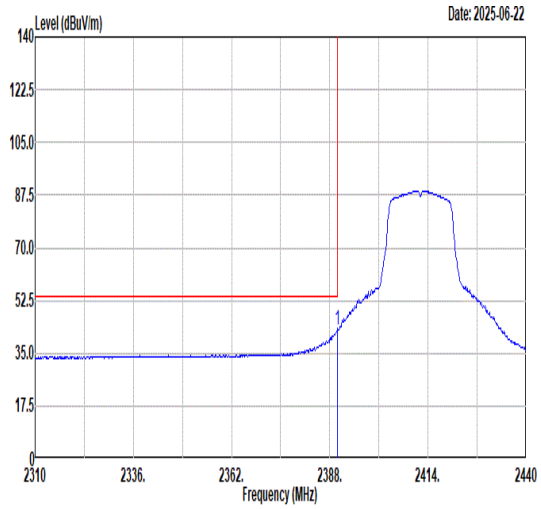
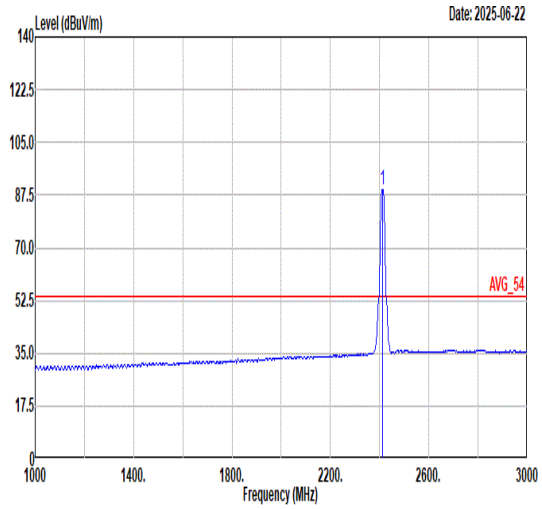
| Mode | 1 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11b_CH01_2412MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Vertical |
| Peak<br>Avg |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4824.00 48.11 74.00 -25.89 55.24 35.30 10.16 52.59 311 345 Peak<br>2 4824.00 41.63 54.00 -12.37 48.76 35.30 10.16 52.59 311 345 Average |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4824.00 49.25 74.00 -24.75 56.38 35.30 10.16 52.59 304 295 Peak<br>2 4824.00 43.22 54.00 -10.78 50.35 35.30 10.16 52.59 304 295 Average |

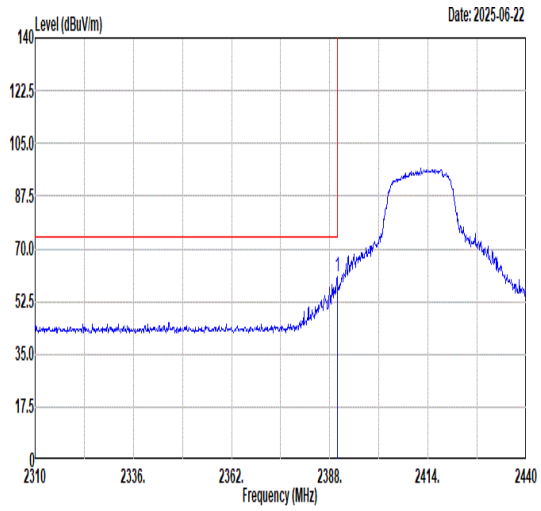
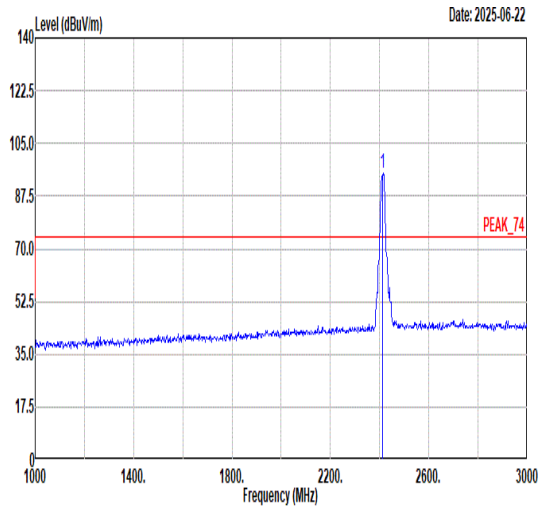
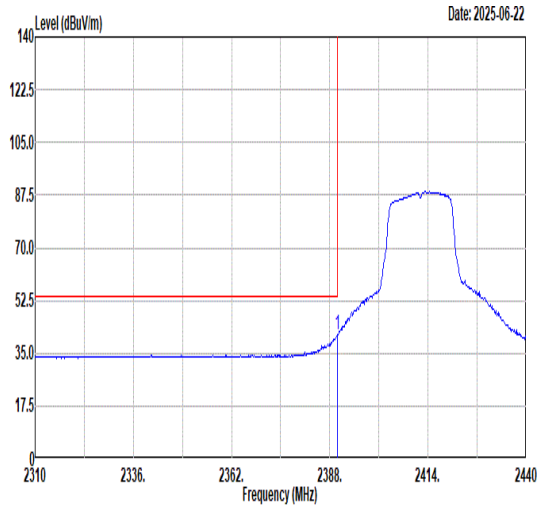
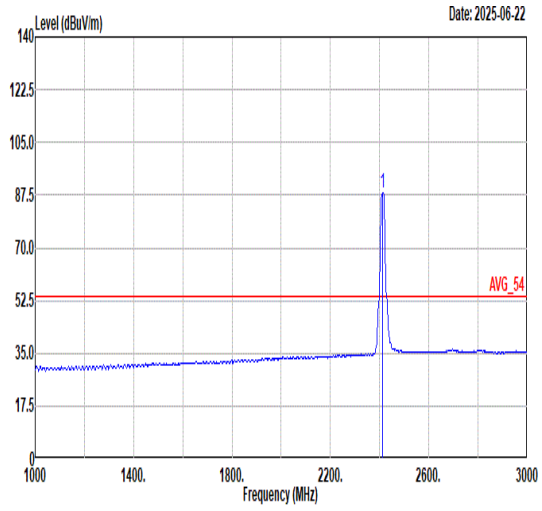
| Mode | 2 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11b_CH06_2437MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Vertical |
| Peak<br>Avg |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4874.00 46.86 74.00 -27.14 53.86 35.35 10.27 52.62 321 344 Peak<br>2 7311.00 45.94 74.00 -28.06 49.57 36.58 12.01 52.22 --- --- Peak |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4874.00 48.24 74.00 -25.76 55.24 35.35 10.27 52.62 314 284 Peak<br>2 4874.00 42.16 54.00 -11.84 49.16 35.35 10.27 52.62 314 284 Average<br>3 7311.00 46.10 74.00 -27.90 49.73 36.58 12.01 52.22 --- --- Peak |

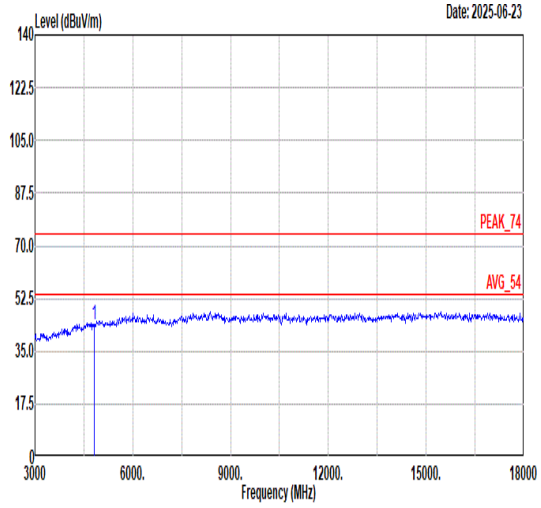
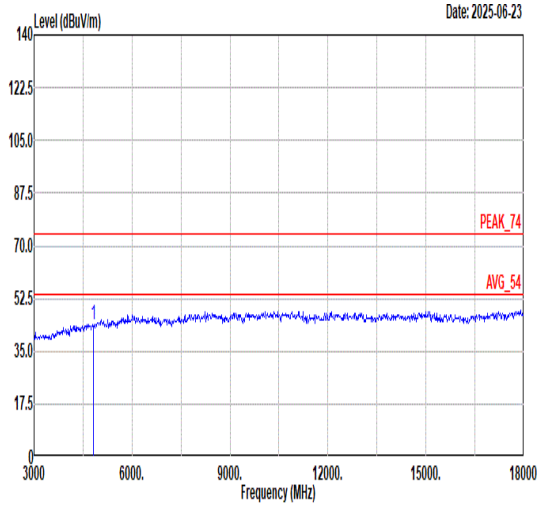
| Mode | 3 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11b_CH11_2462MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2486.93 50.00 74.00 -24.00 45.00 30.63 6.98 32.61 321 38 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2462.00 102.00 ------ ------ 96.99 30.68 6.95 32.62 321 38 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2487.46 41.89 54.00 -12.11 36.89 30.63 6.98 32.61 321 38 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2462.00 100.03 ------ ------ 95.02 30.68 6.95 32.62 321 38 AVERAGE |

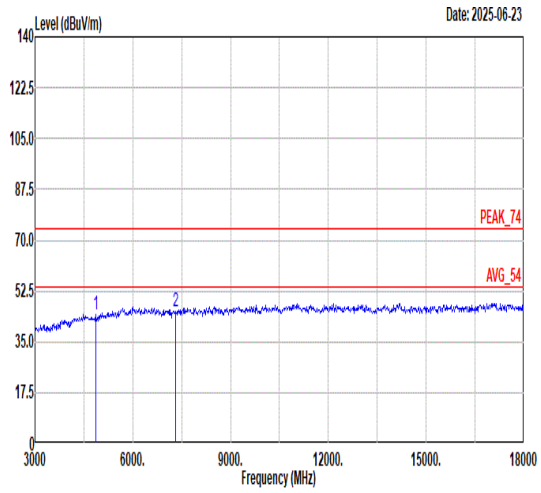
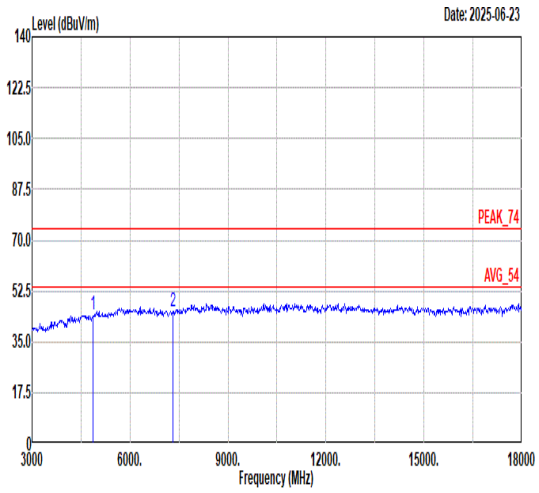
| Mode | 3 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11b_CH11_2462MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2487.50 49.23 74.00 -24.77 44.23 30.62 6.98 32.60 335 343 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2462.00 100.81 ------ ------ 95.80 30.68 6.95 32.62 335 343 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2486.97 38.79 54.00 -15.21 33.79 30.63 6.98 32.61 335 343 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2462.00 97.37 ------ ------ 92.36 30.68 6.95 32.62 335 343 AVERAGE |

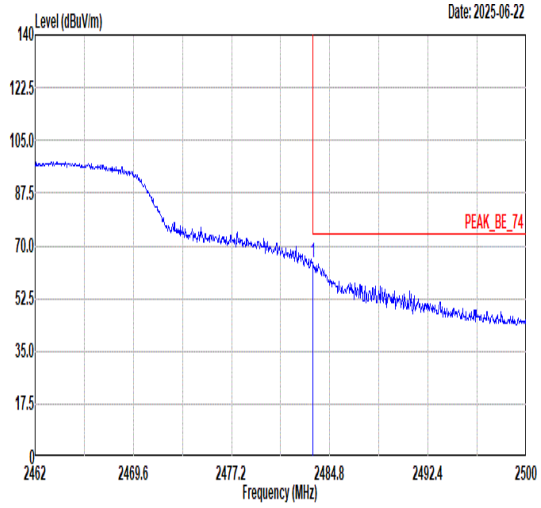
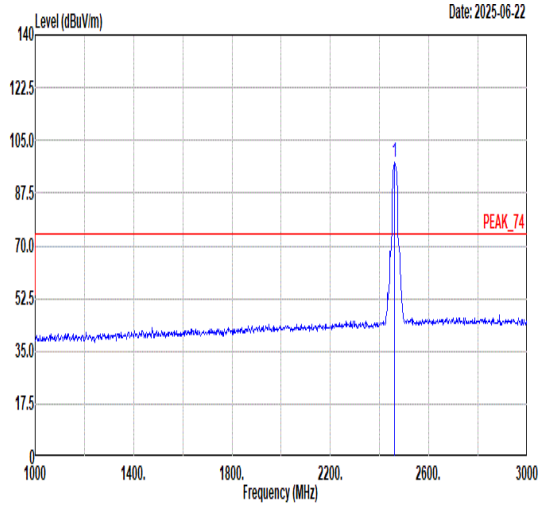
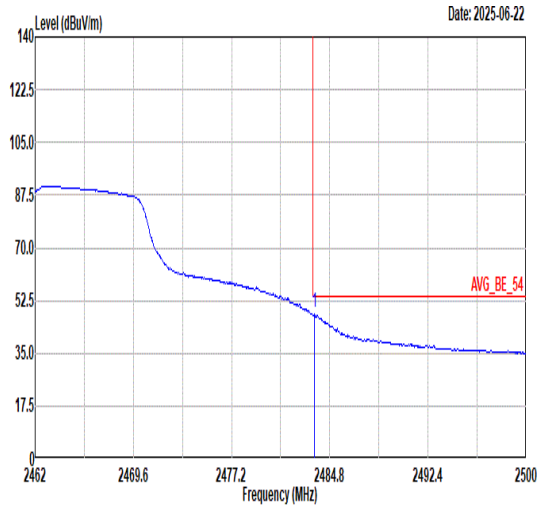
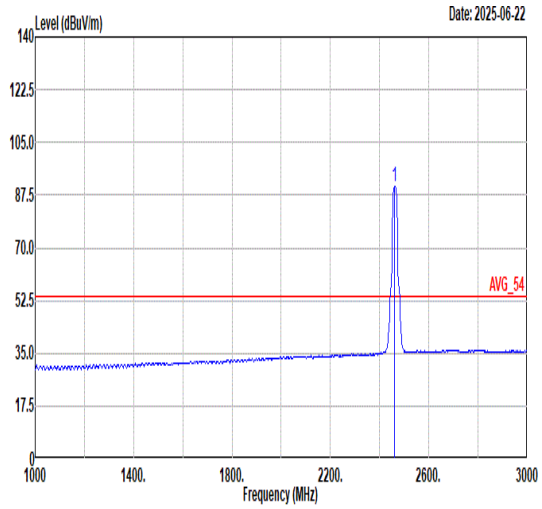
| Mode | 3 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11b_CH11_2462MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Vertical |
| Peak<br>Avg |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4924.00 45.01 74.00 -28.99 51.80 35.54 10.32 52.65 --- --- Peak<br>2 7386.00 45.20 74.00 -28.80 48.90 36.57 11.98 52.25 --- --- Peak |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4924.00 49.74 74.00 -24.26 56.53 35.54 10.32 52.65 291 295 Peak<br>2 4924.00 43.74 54.00 -10.26 50.53 35.54 10.32 52.65 291 295 Average<br>3 7386.00 46.16 74.00 -27.84 49.86 36.57 11.98 52.25 --- --- Peak |

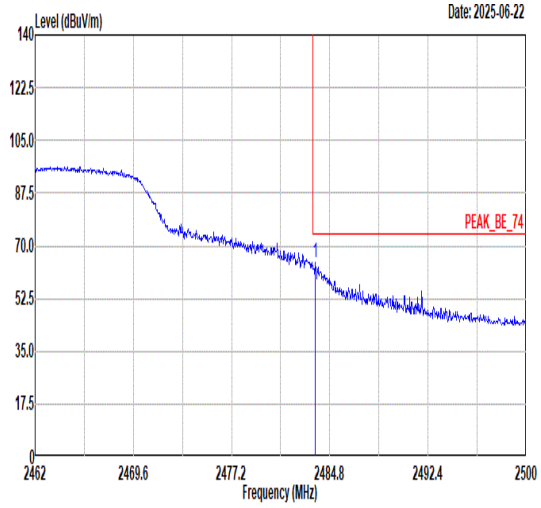
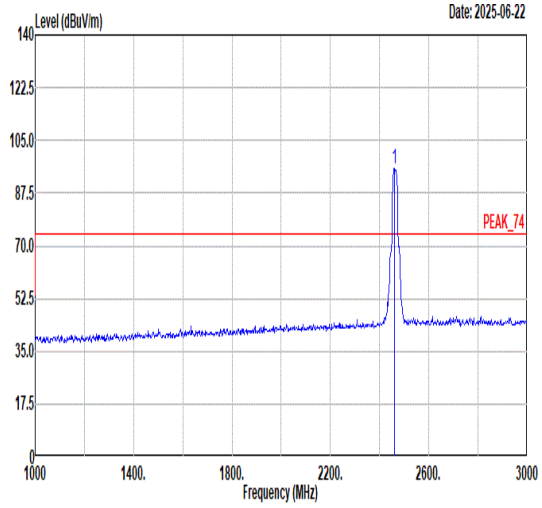
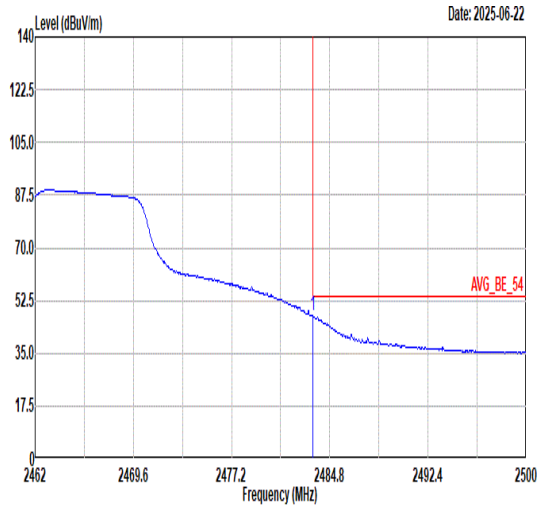
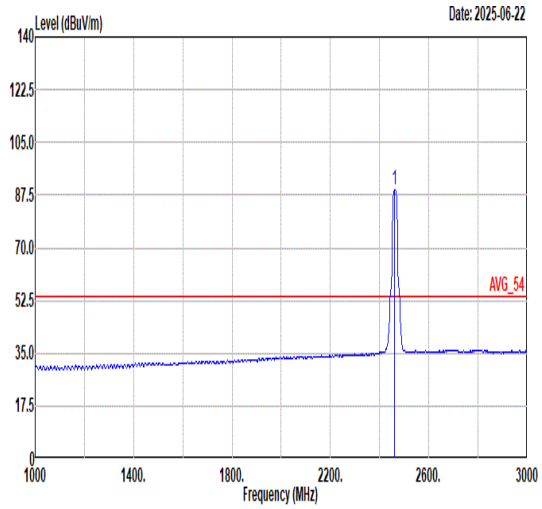
| Mode | 4 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11g_CH01_2412MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2388.78 60.02 74.00 -13.98 55.20 30.60 6.86 32.64 274 24 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2412.00 96.63 ------ ------ 91.76 30.62 6.89 32.64 274 24 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2389.95 42.86 54.00 -11.14 38.03 30.60 6.87 32.64 274 24 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2412.00 89.27 ------ ------ 84.40 30.62 6.89 32.64 274 24 AVERAGE |

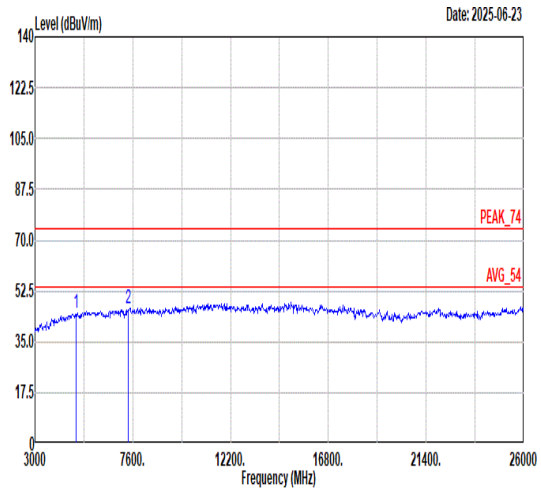
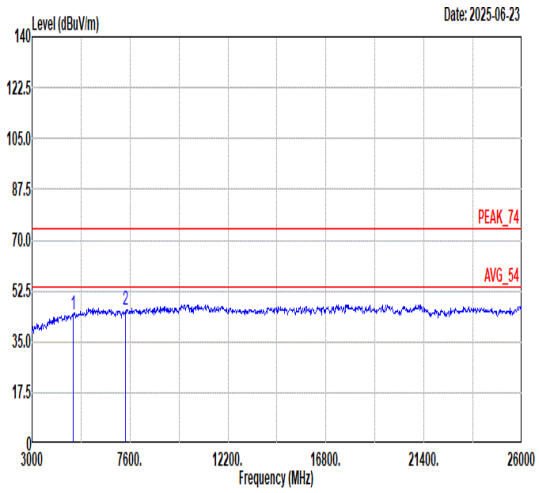
| Mode | 4 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11g_CH01_2412MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2389.95 60.70 74.00 -13.30 55.87 30.60 6.87 32.64 174 78 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2412.00 94.88 ------ ------ 89.98 30.63 6.90 32.63 174 78 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2389.95 41.02 54.00 -12.98 36.19 30.60 6.87 32.64 174 78 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2412.00 88.45 ------ ------ 83.58 30.62 6.89 32.64 174 78 AVERAGE |

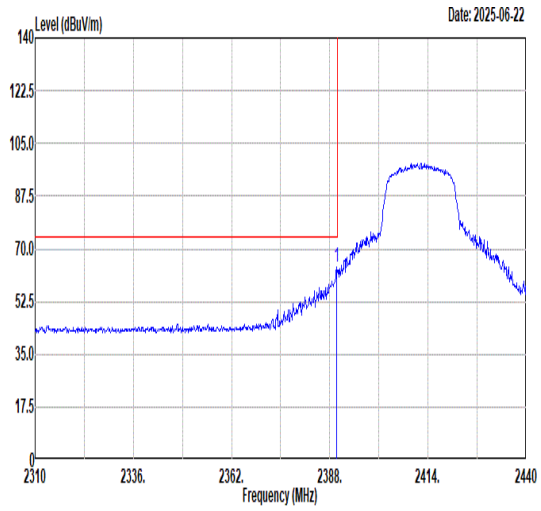
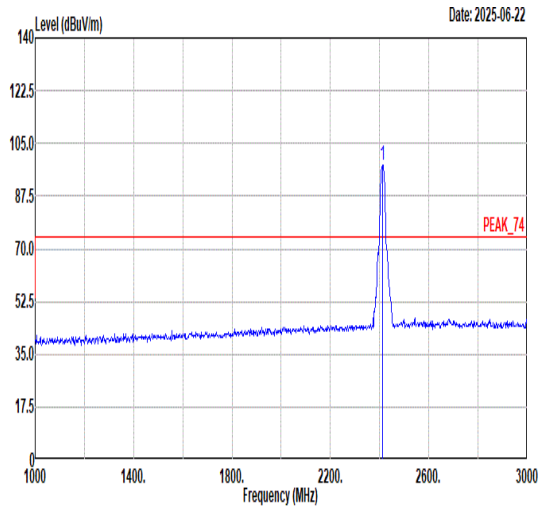
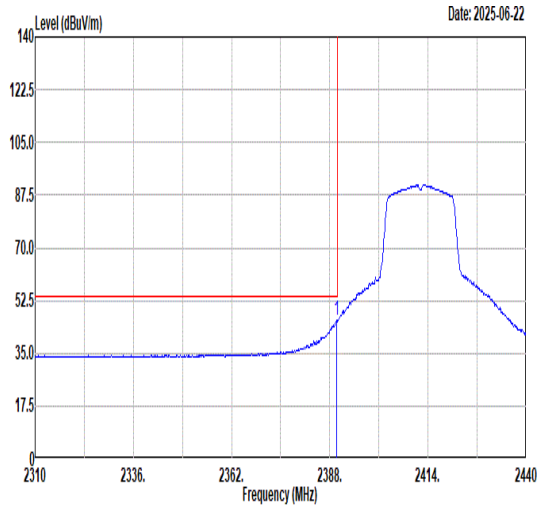
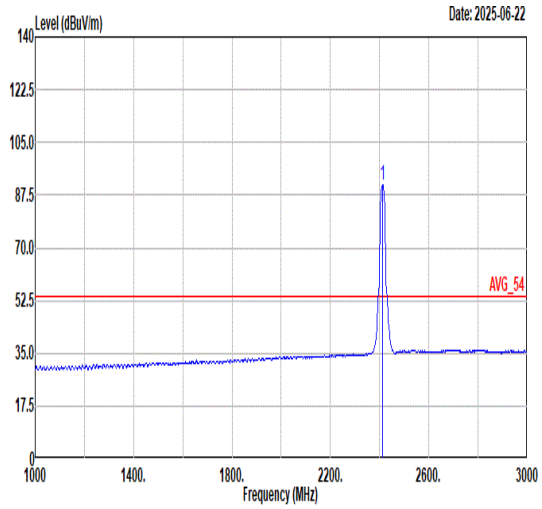
| Mode | 4 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11g_CH01_2412MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Vertical |
| Peak<br>Avg |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4824.00 43.79 74.00 -30.21 50.92 35.30 10.16 52.59 --- --- Peak |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4824.00 44.04 74.00 -29.96 51.17 35.30 10.16 52.59 --- --- Peak |

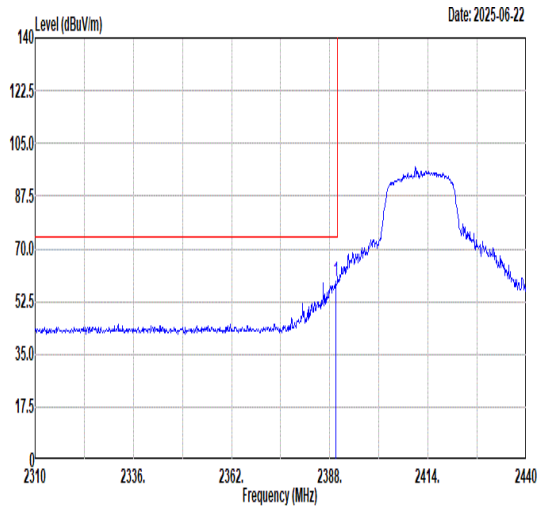
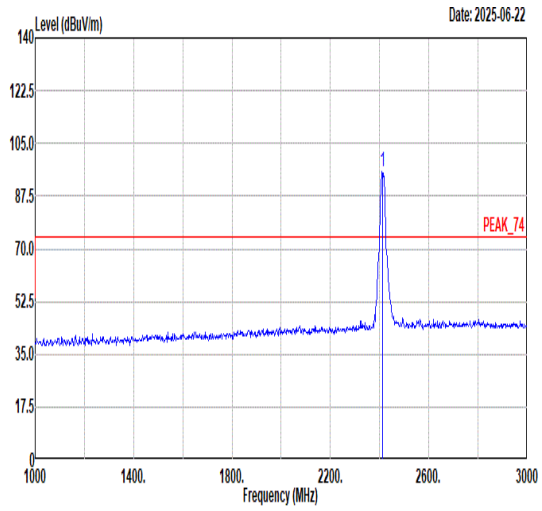
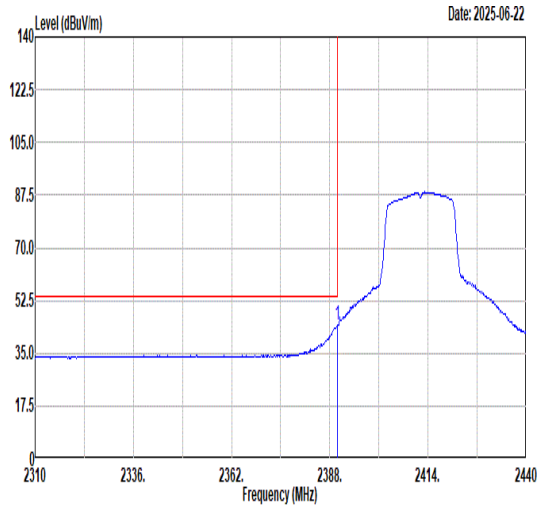
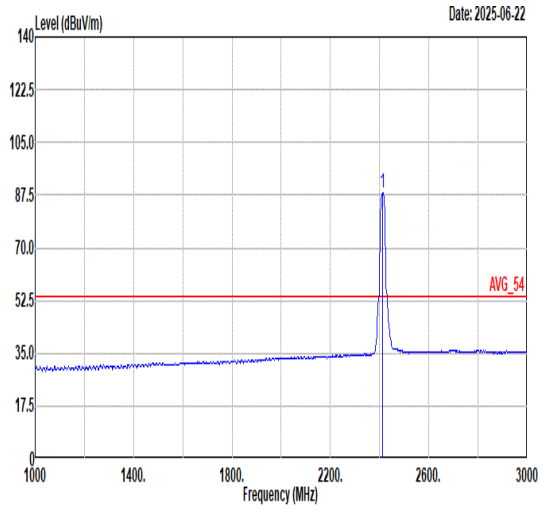
| Mode | 5 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11g_CH06_2437MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Vertical |
| Peak<br>Avg |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4874.00 44.37 74.00 -29.63 51.37 35.35 10.27 52.62 --- --- Peak<br>2 7311.00 45.30 74.00 -28.70 48.93 36.58 12.01 52.22 --- --- Peak |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4874.00 44.59 74.00 -29.41 51.59 35.35 10.27 52.62 --- --- Peak<br>2 7311.00 45.32 74.00 -28.68 48.95 36.58 12.01 52.22 --- --- Peak |

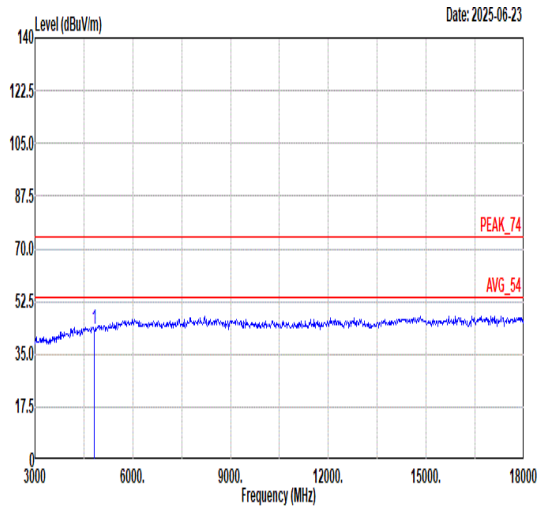
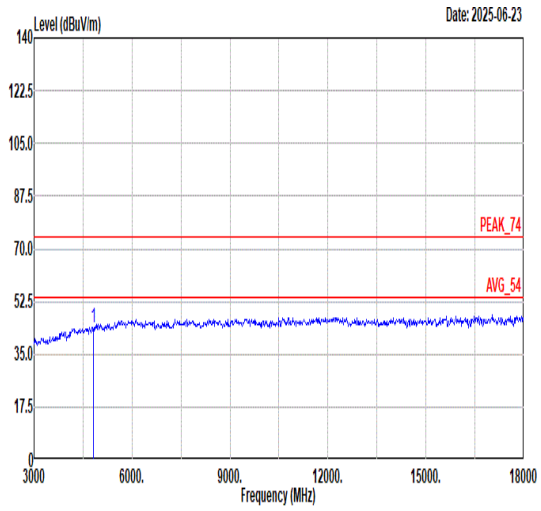
| Mode | 6 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11g_CH11_2462MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2483.51 64.57 74.00 -9.43 59.57 30.63 6.98 32.61 151 153 PEAK |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2462.00 97.49 ------ ------ 92.48 30.68 6.95 32.62 151 153 PEAK |
| Avg |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2483.62 48.43 54.00 -5.57 43.43 30.63 6.98 32.61 151 153 AVERAGE |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2462.00 90.49 ------ ------ 85.48 30.68 6.95 32.62 151 153 AVERAGE |

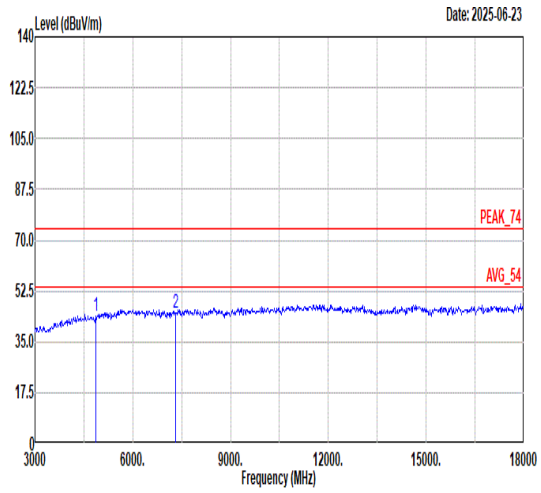
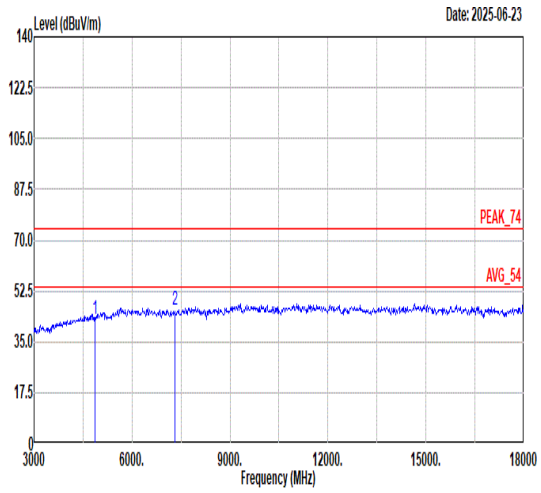
| Mode | 6 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11g_CH11_2462MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2483.70 64.21 74.00 -9.79 59.21 30.63 6.98 32.61 227 47 PEAK |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2462.00 95.78 ------ ------ 90.77 30.68 6.95 32.62 227 47 PEAK |
| Avg |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2483.51 47.32 54.00 -6.68 42.32 30.63 6.98 32.61 227 47 AVERAGE |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2462.00 89.28 ------ ------ 84.27 30.68 6.95 32.62 227 47 AVERAGE |

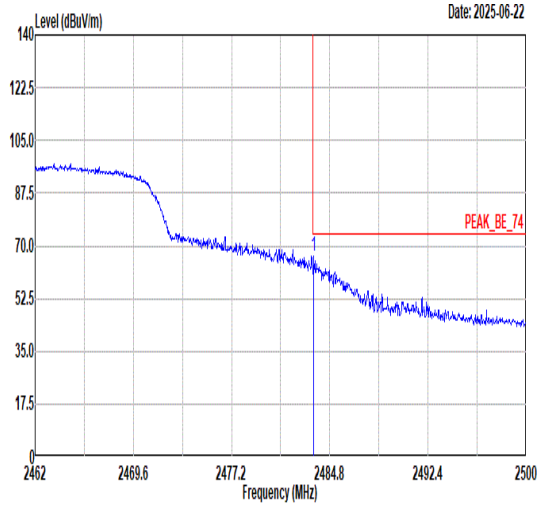
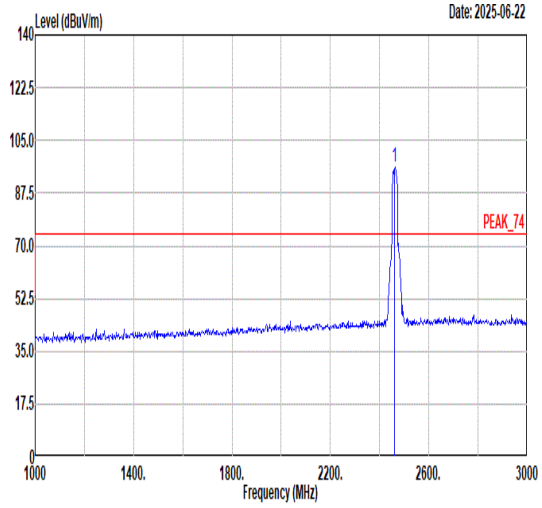
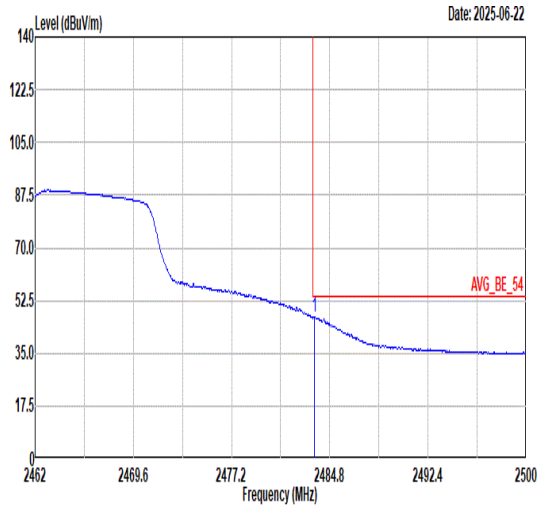
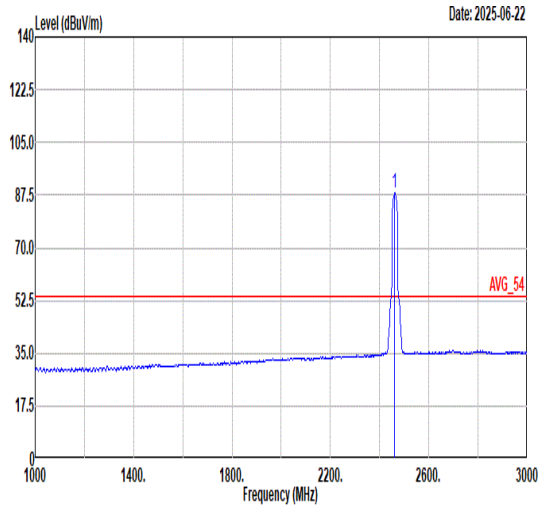
| Mode | 6 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11g_CH11_2462MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Vertical |
| Peak<br>Avg |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4924.00 45.07 74.00 -28.93 51.86 35.54 10.32 52.65 --- --- Peak<br>2 7386.00 46.68 74.00 -27.32 50.38 36.57 11.98 52.25 --- --- Peak |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4924.00 44.14 74.00 -29.86 50.93 35.54 10.32 52.65 --- --- Peak<br>2 7386.00 45.74 74.00 -28.26 49.44 36.57 11.98 52.25 --- --- Peak |

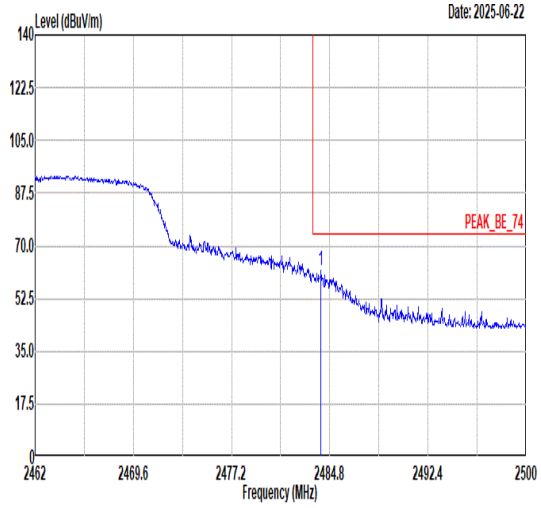
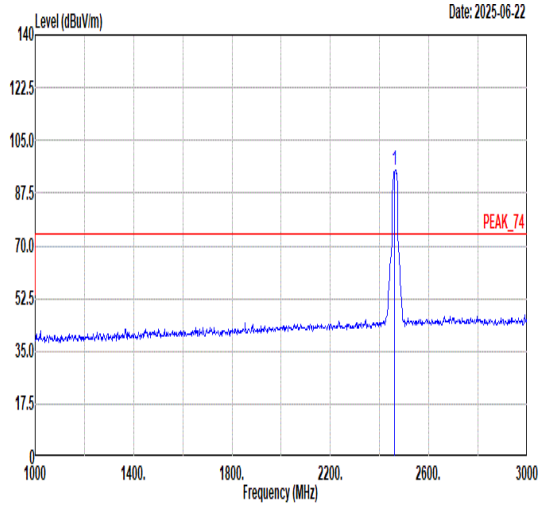
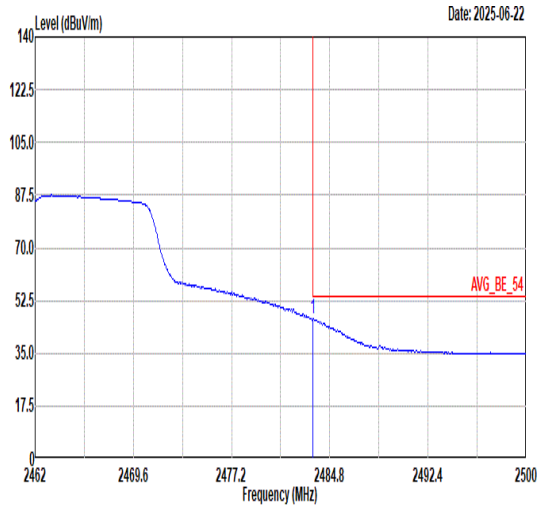
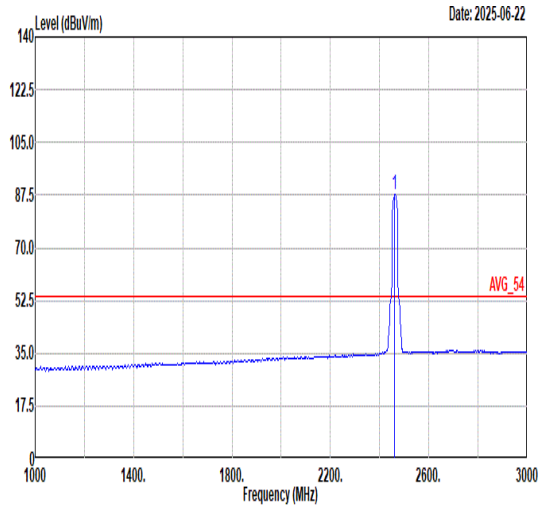
| Mode | 7 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11ac VHT20_CH01_2412MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2389.82 63.69 74.00 -10.31 58.86 30.60 6.87 32.64 271 23 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2412.00 97.64 ------ ------ 92.75 30.63 6.89 32.63 271 23 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2389.82 45.96 54.00 -8.04 41.13 30.60 6.87 32.64 271 23 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2412.00 90.79 ------ ------ 85.90 30.63 6.89 32.63 271 23 AVERAGE |

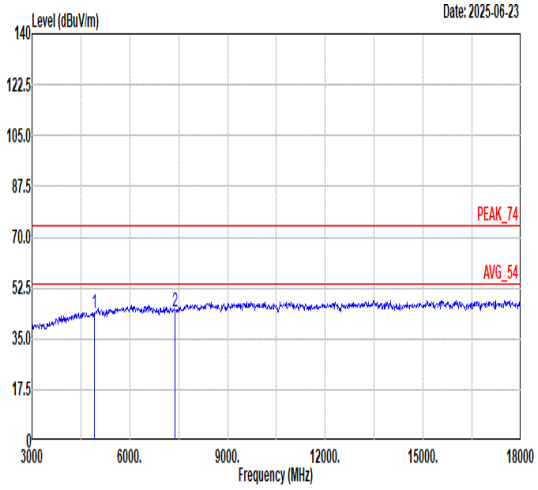
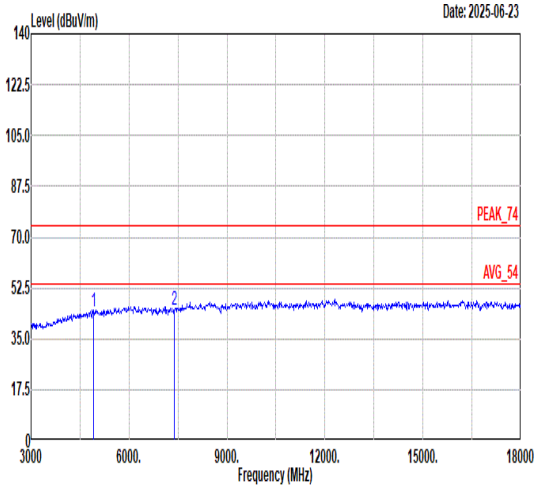
| Mode | 7 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11ac VHT20_CH01_2412MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2389.69 59.13 74.00 -14.87 54.30 30.60 6.87 32.64 174 79 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2412.00 95.81 ------ ------ 90.94 30.62 6.89 32.64 174 79 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2389.95 44.17 54.00 -9.83 39.34 30.60 6.87 32.64 174 79 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2412.00 88.38 ------ ------ 83.49 30.63 6.89 32.63 174 79 AVERAGE |

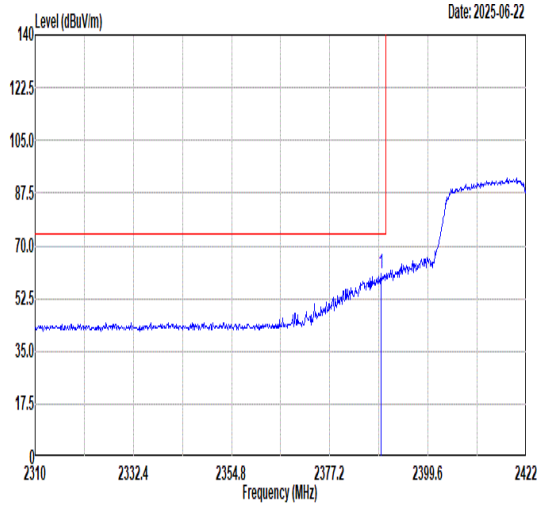
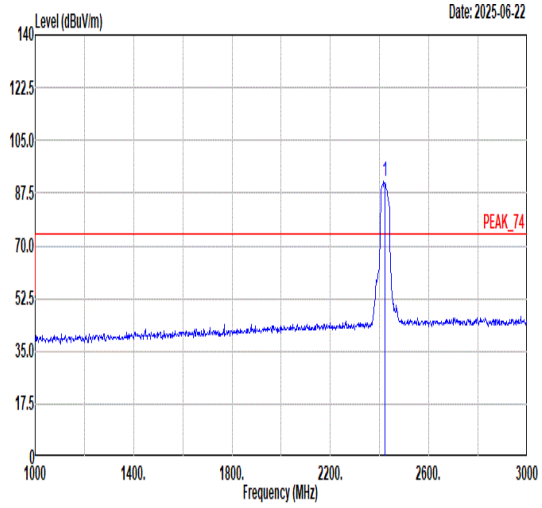
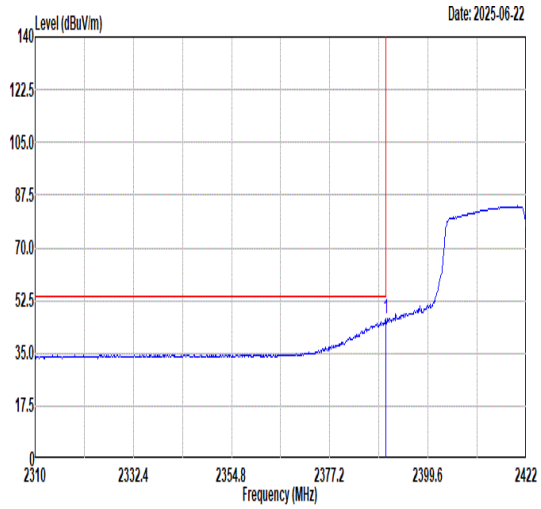
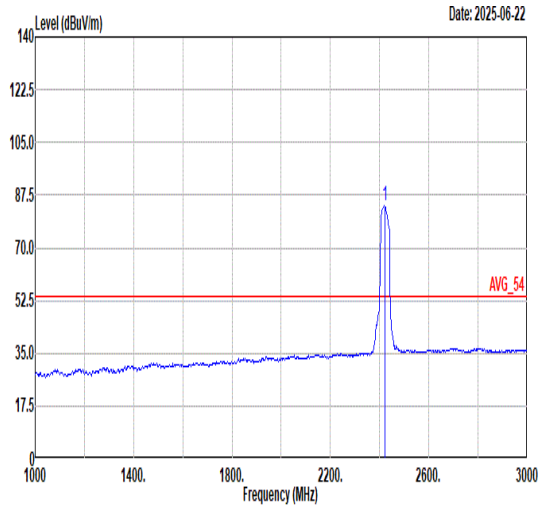
| Mode | 7 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11ac VHT20_CH01_2412MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Vertical |
| Peak<br>Avg |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4824.00 43.32 74.00 -30.68 50.45 35.30 10.16 52.59 --- --- Peak |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4824.00 43.85 74.00 -30.15 50.98 35.30 10.16 52.59 --- --- Peak |

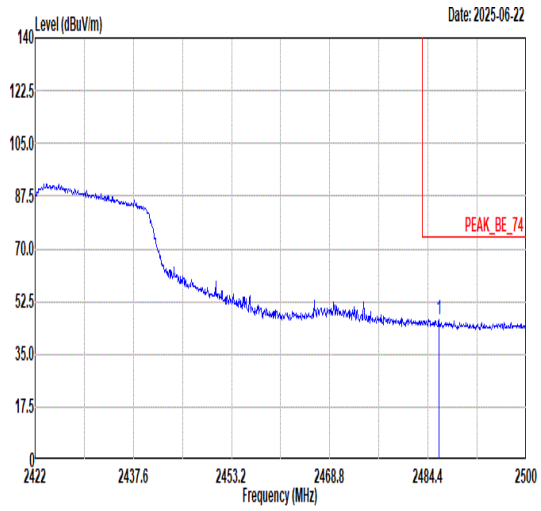
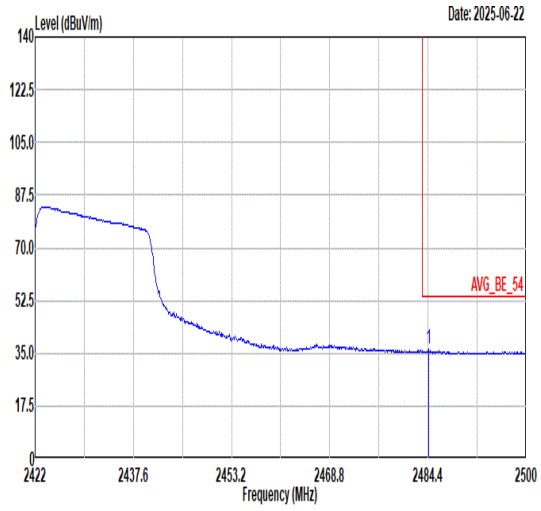
| Mode | 8 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11ac VHT20_CH06_2437MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Vertical |
| Peak<br>Avg |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4874.00 43.72 74.00 -30.28 50.72 35.35 10.27 52.62 --- --- Peak<br>2 7311.00 44.70 74.00 -29.30 48.33 36.58 12.01 52.22 --- --- Peak |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4874.00 42.81 74.00 -31.19 49.81 35.35 10.27 52.62 --- --- Peak<br>2 7311.00 45.99 74.00 -28.01 49.62 36.58 12.01 52.22 --- --- Peak |

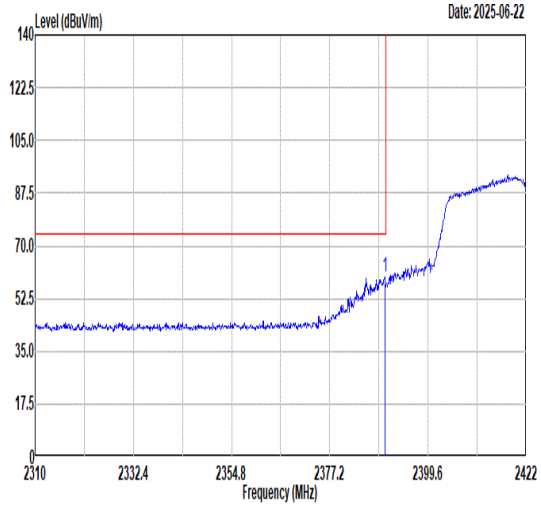
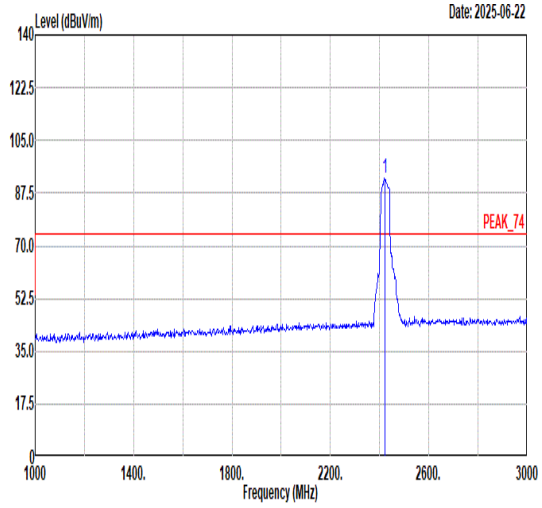
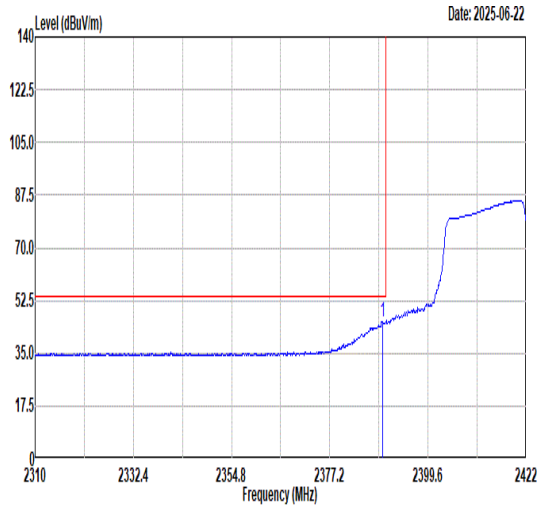
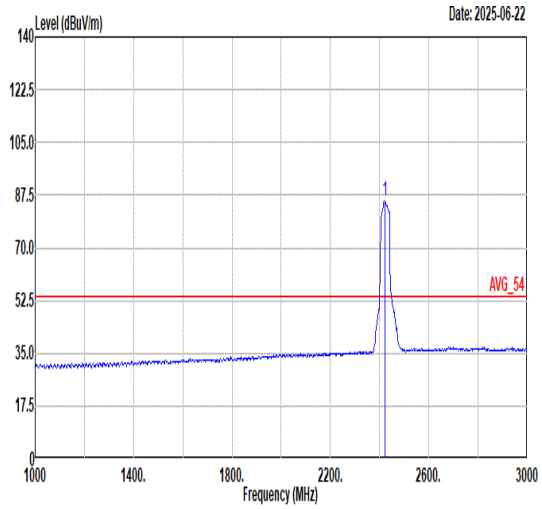
| Mode | 9 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11ac VHT20_CH11_2462MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2483.55 66.33 74.00 -7.67 61.33 30.63 6.98 32.61 151 153 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2462.00 95.91 ------ ------ 90.90 30.67 6.95 32.61 151 153 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2483.62 47.22 54.00 -6.78 42.22 30.63 6.98 32.61 151 153 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2462.00 88.09 ------ ------ 83.08 30.68 6.95 32.62 151 153 AVERAGE |

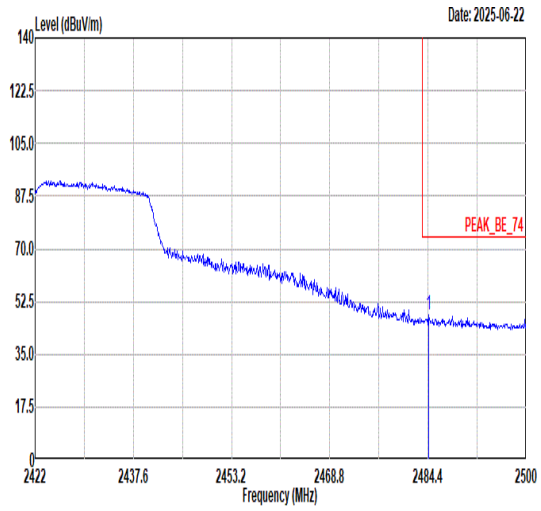
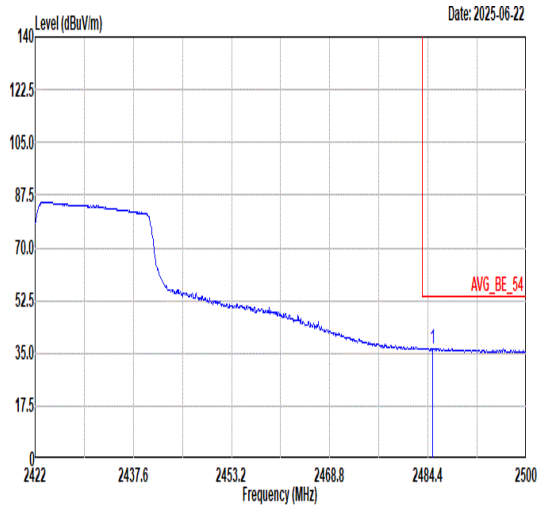
| Mode | 9 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11ac VHT20_CH11_2462MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2484.12 61.68 74.00 -12.32 56.68 30.63 6.98 32.61 226 49 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2462.00 94.98 ------ ------ 89.97 30.67 6.95 32.61 226 49 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2483.51 46.49 54.00 -7.51 41.49 30.63 6.98 32.61 226 49 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2462.00 87.46 ------ ------ 82.45 30.68 6.95 32.62 226 49 AVERAGE |

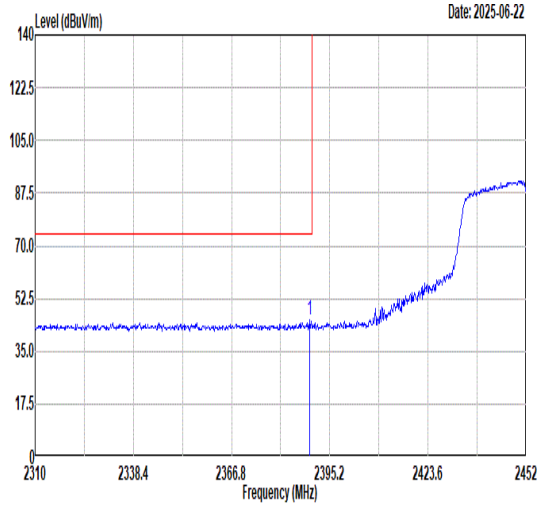
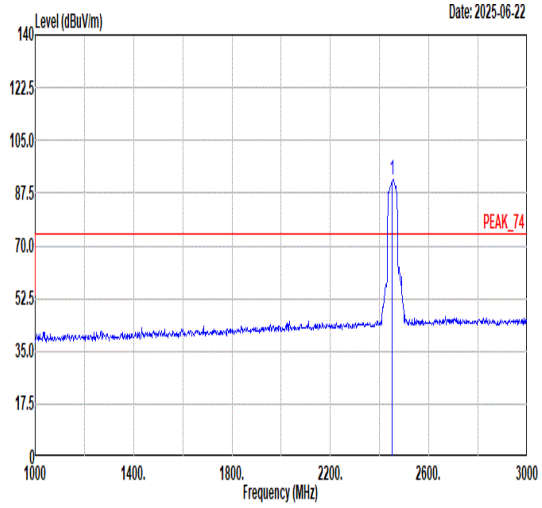
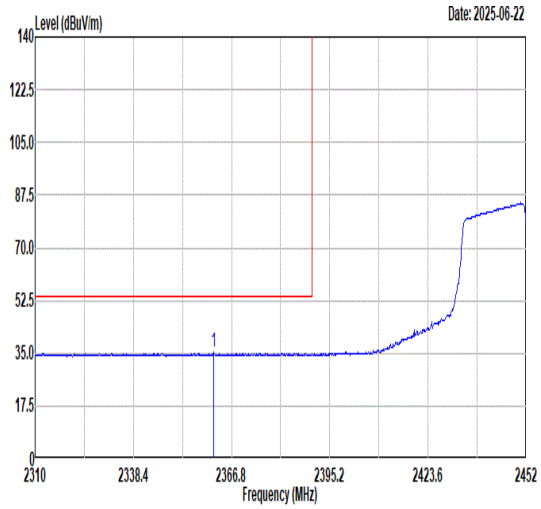
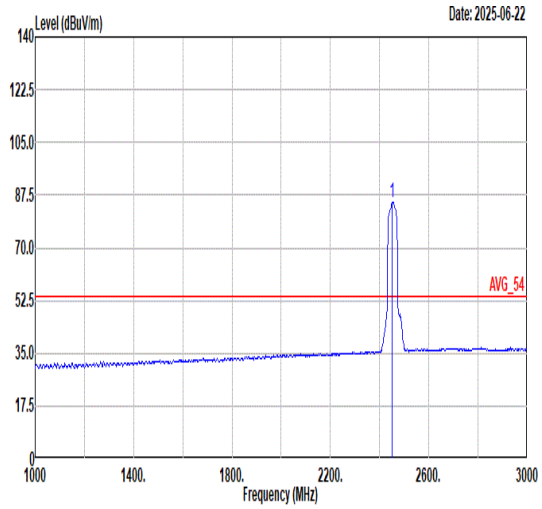
| Mode | 9 | |
|---|---|---|
| | Harmonic | |
| | 2400-2483.5_802.11ac VHT20_CH11_2462MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Vertical |
| Peak<br>Avg |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4924.00 43.89 74.00 -30.11 50.68 35.54 10.32 52.65 --- --- Peak<br>2 7386.00 44.57 74.00 -29.43 48.27 36.57 11.98 52.25 --- --- Peak |  <br><br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 4924.00 44.38 74.00 -29.62 51.17 35.54 10.32 52.65 --- --- Peak<br>2 7386.00 45.13 74.00 -28.87 48.83 36.57 11.98 52.25 --- --- Peak |

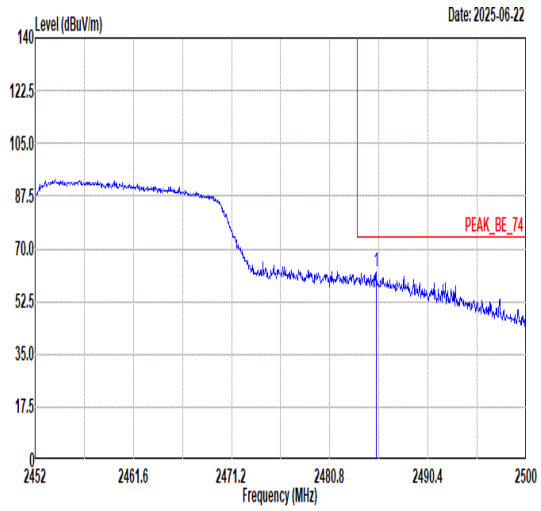
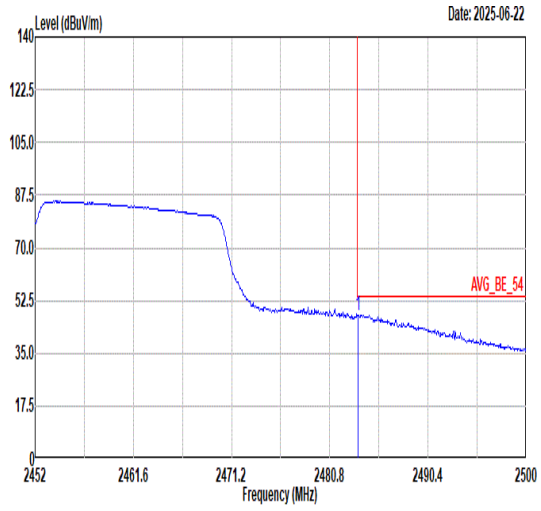
| Mode | 10 | |
|---|---|---|
| | Band Edge - L | |
| | 2400-2483.5_802.11ac VHT40_CH03_2422MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2388.96 60.52 74.00 -13.48 55.70 30.60 6.86 32.64 274 24 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2422.00 91.32 ------ ------ 86.42 30.63 6.90 32.63 274 24 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2389.97 46.64 54.00 -7.36 41.81 30.60 6.87 32.64 274 24 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2422.00 84.09 ------ ------ 79.18 30.64 6.90 32.63 274 24 AVERAGE |

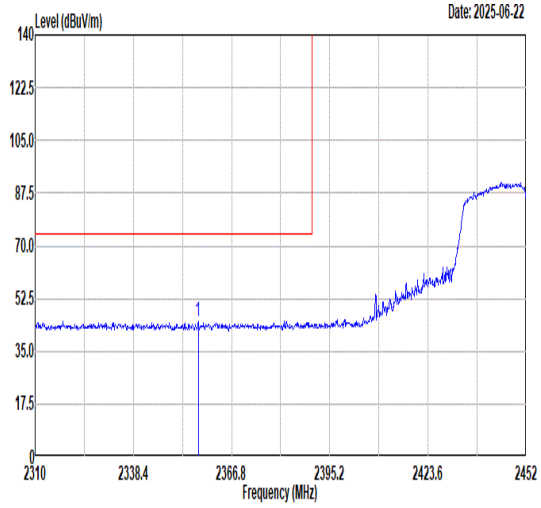
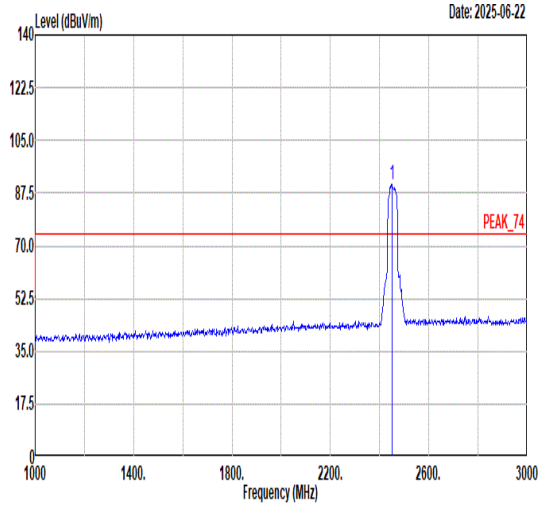
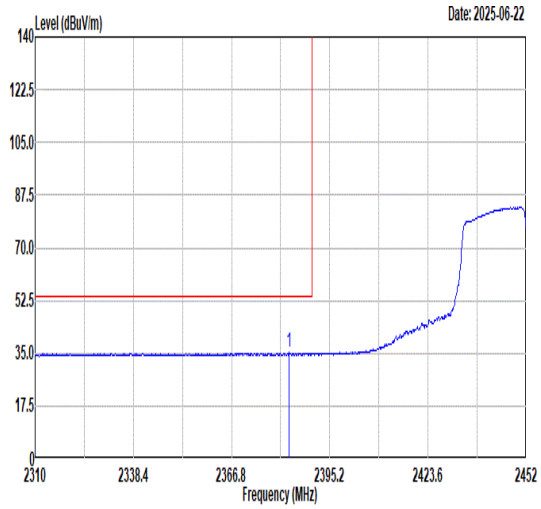
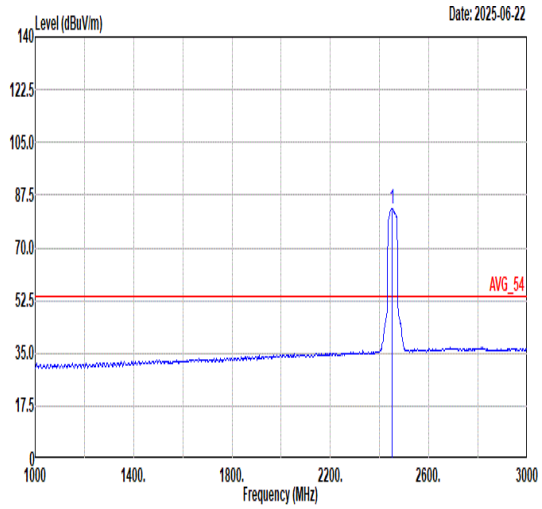
| Mode | 10 | |
|---|---|---|
| | Band Edge - R | |
| | 2400-2483.5_802.11ac VHT40_CH03_2422MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2486.12 46.74 74.00 -27.26 41.74 30.63 6.98 32.61 274 24 PEAK | Blank |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2484.48 36.26 54.00 -17.74 31.26 30.63 6.98 32.61 274 24 AVERAGE | Blank |

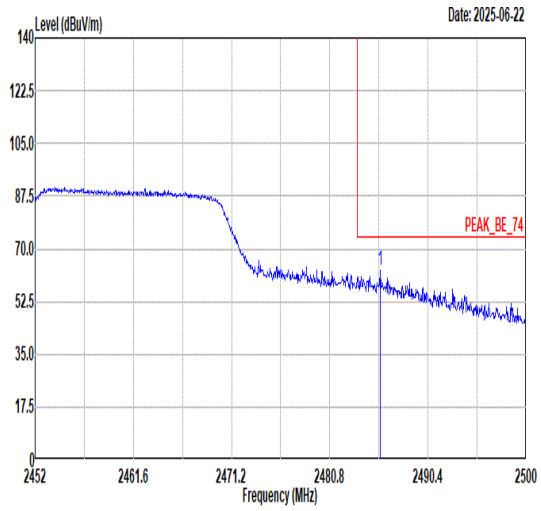
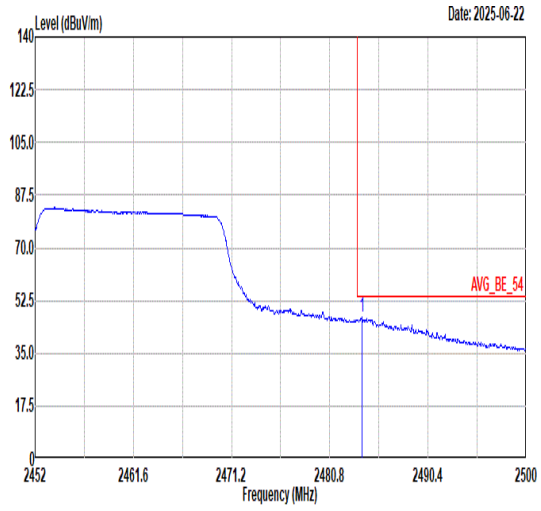
| Mode | 10 | |
|---|---|---|
| | Band Edge - L | |
| | 2400-2483.5_802.11ac VHT40_CH03_2422MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2389.74 59.67 74.00 -14.33 54.84 30.60 6.87 32.64 176 78 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2422.00 92.45 ------ ------ 87.54 30.64 6.90 32.63 176 78 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2389.18 45.64 54.00 -8.36 40.82 30.60 6.86 32.64 176 78 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2422.00 85.74 ------ ------ 80.83 30.64 6.90 32.63 176 78 AVERAGE |

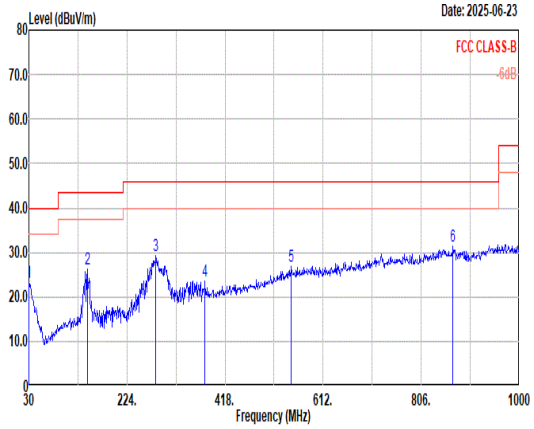
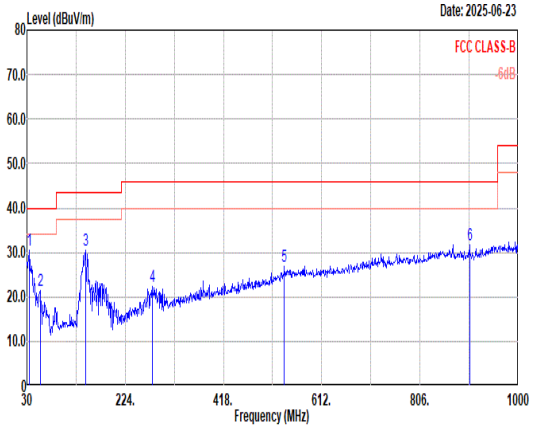
| Mode | 10 | |
|---|---|---|
| | Band Edge - R | |
| | 2400-2483.5_802.11ac VHT40_CH03_2422MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2484.48 47.85 74.00 -26.15 42.85 30.63 6.98 32.61 176 78 PEAK | Blank |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2485.18 36.53 54.00 -17.47 31.53 30.63 6.98 32.61 176 78 AVERAGE | Blank |

| Mode | 11 | |
|---|---|---|
| | Band Edge - L | |
| | 2400-2483.5_802.11ac VHT40_CH09_2452MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2389.38 45.41 74.00 -28.59 40.58 30.60 6.87 32.64 152 153 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2452.00 91.97 ------ ------ 86.96 30.68 6.95 32.62 152 153 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2361.69 35.16 54.00 -18.84 30.38 30.60 6.84 32.66 152 153 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2452.00 85.18 ------ ------ 80.17 30.69 6.94 32.62 152 153 AVERAGE |

| Mode | 11 | |
|---|---|---|
| | Band Edge - R | |
| | 2400-2483.5_802.11ac VHT40_CH09_2452MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2485.31 62.54 74.00 -11.46 57.54 30.63 6.98 32.61 152 153 PEAK | Blank |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2483.58 47.66 54.00 -6.34 42.66 30.63 6.98 32.61 152 153 AVERAGE | Blank |

| Mode | 11 | |
|---|---|---|
| | Band Edge - L | |
| | 2400-2483.5_802.11ac VHT40_CH09_2452MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2357.14 44.92 74.00 -29.08 40.15 30.60 6.83 32.66 223 51 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2452.00 90.35 ------ ------ 85.35 30.69 6.93 32.62 223 51 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2383.41 35.35 54.00 -18.65 30.54 30.60 6.86 32.65 223 51 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2452.00 82.94 ------ ------ 77.93 30.69 6.94 32.62 223 51 AVERAGE |

| Mode | 11 | |
|---|---|---|
| | Band Edge - R | |
| | 2400-2483.5_802.11ac VHT40_CH09_2452MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2485.74 62.64 74.00 -11.36 57.64 30.63 6.98 32.61 223 51 PEAK | Blank |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2483.92 47.26 54.00 -6.74 42.26 30.63 6.98 32.61 223 51 AVERAGE | Blank |

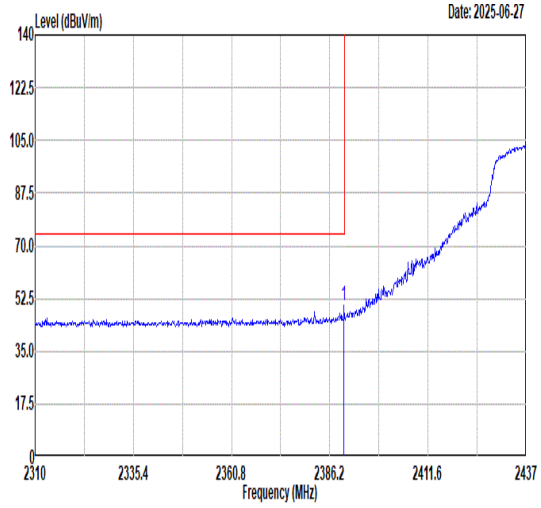
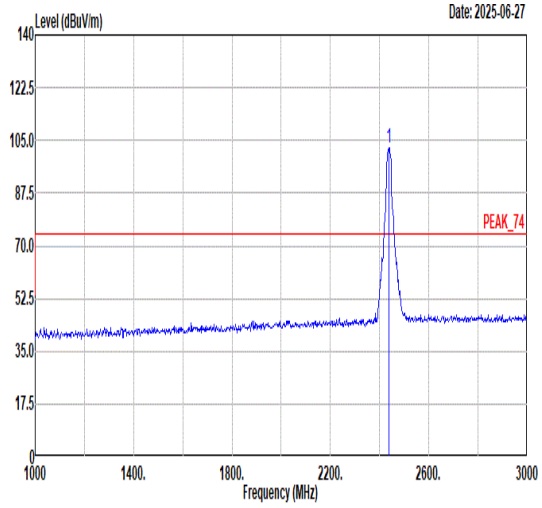
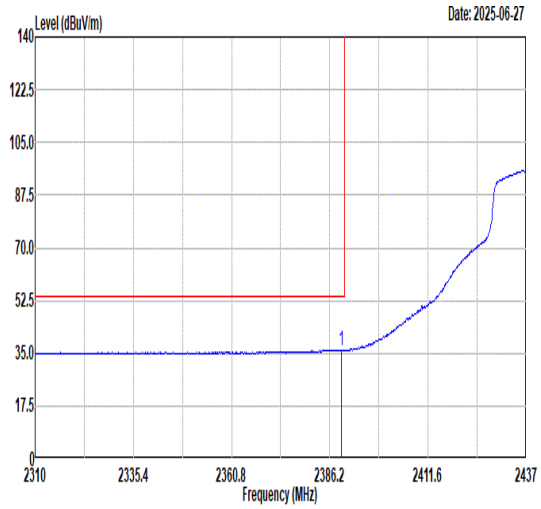
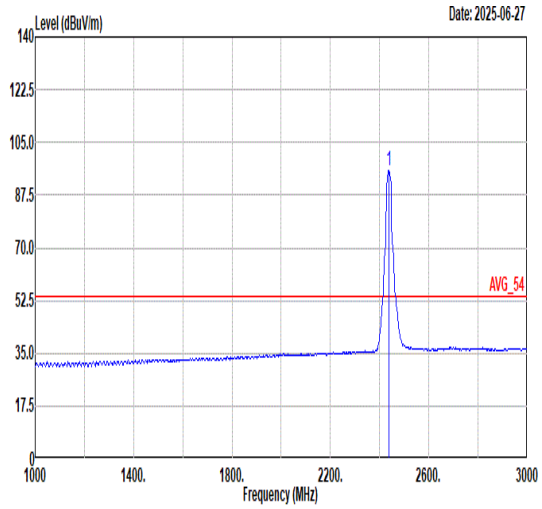
| Mode | 12 | |
|---|---|---|
| | LF | |
| | 2400-2483.5_802.11g_CH11_2462MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Vertical |
| QP/ Peak |  |  |

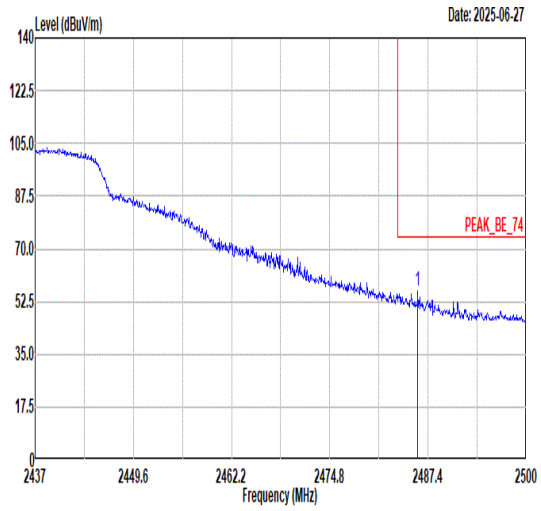
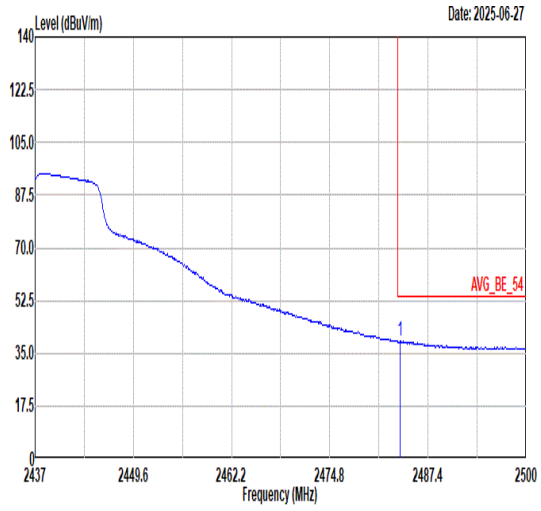


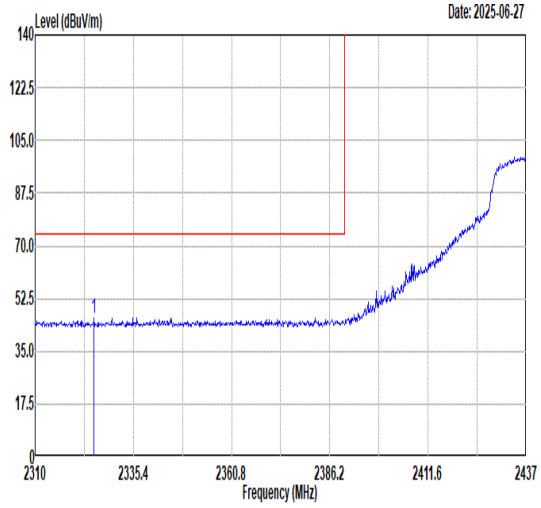
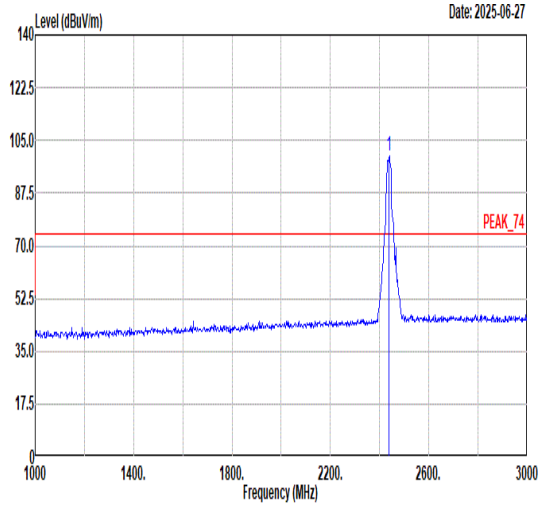
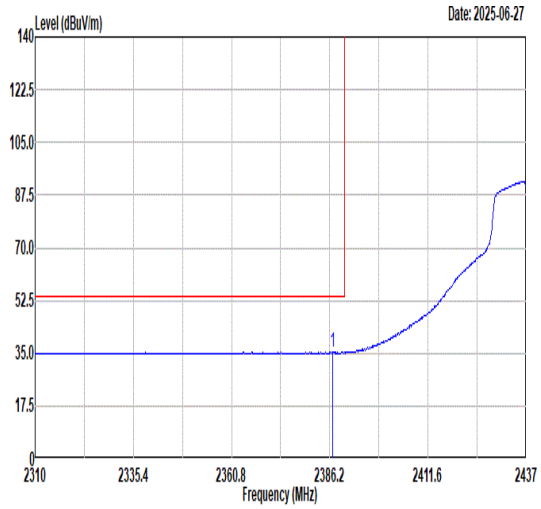
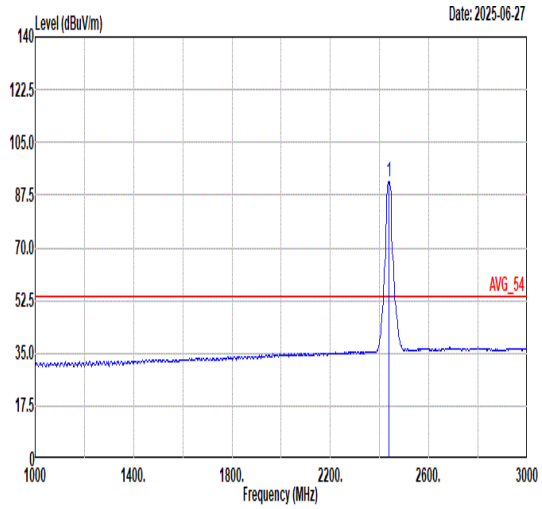
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.00 | 23.13 | 40.00 | -16.87 | 43.15 | 18.85 | 1.01 | 39.88 | --- | --- | Peak |
| 2 | 145.43 | 26.19 | 43.50 | -17.31 | 44.65 | 19.38 | 2.19 | 40.03 | --- | --- | Peak |
| 3 | 281.23 | 29.16 | 46.00 | -16.84 | 46.71 | 19.38 | 3.02 | 39.95 | --- | --- | Peak |
| 4 | 378.23 | 23.60 | 46.00 | -22.40 | 38.29 | 21.60 | 3.50 | 39.79 | --- | --- | Peak |
| 5 | 548.95 | 26.97 | 46.00 | -19.03 | 37.71 | 24.71 | 4.22 | 39.67 | --- | --- | Peak |
| 6 | 869.05 | 31.45 | 46.00 | -14.55 | 36.87 | 28.70 | 5.29 | 39.41 | --- | --- | Peak |

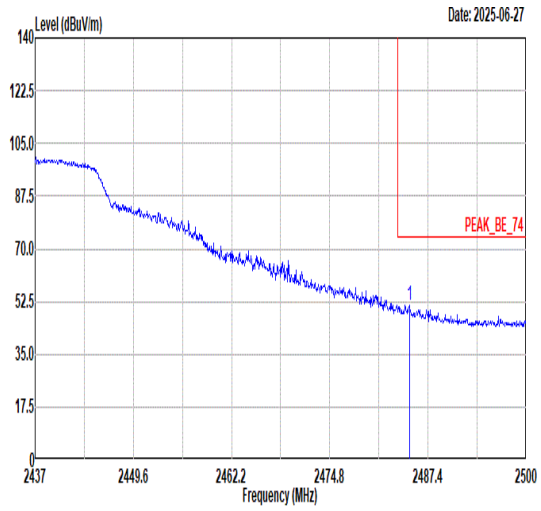
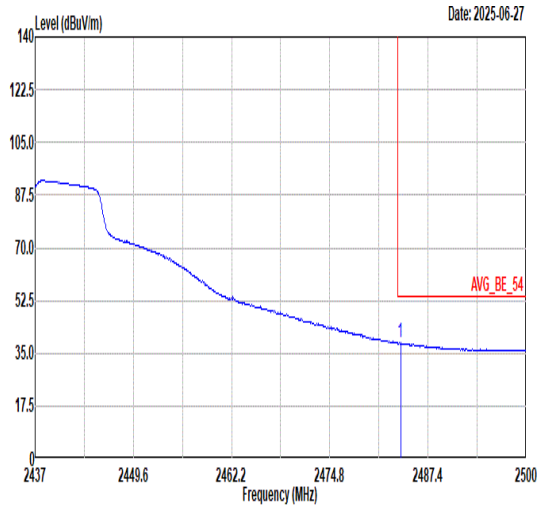


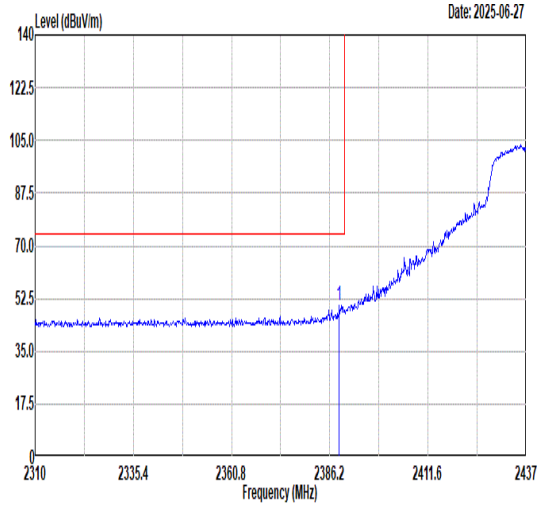
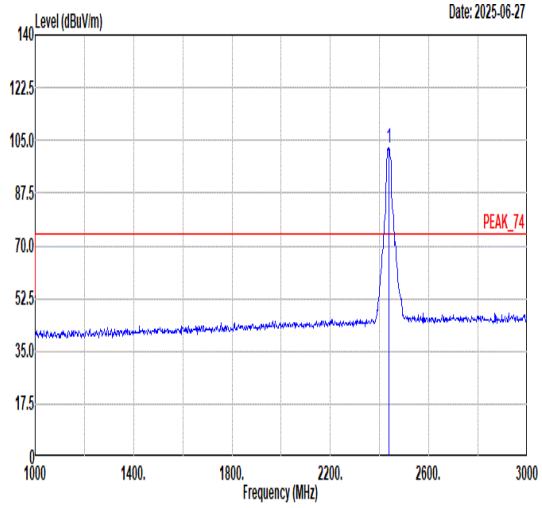
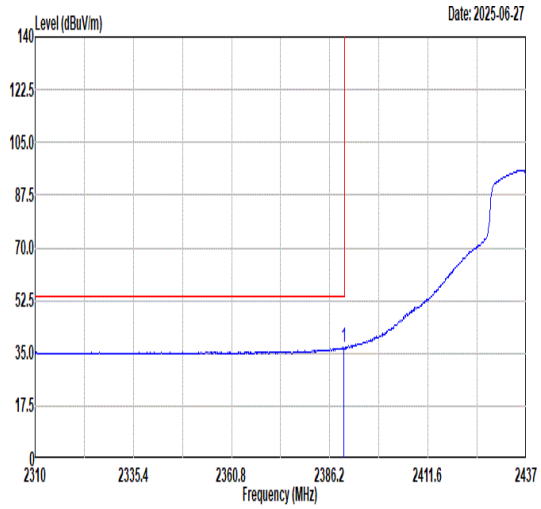
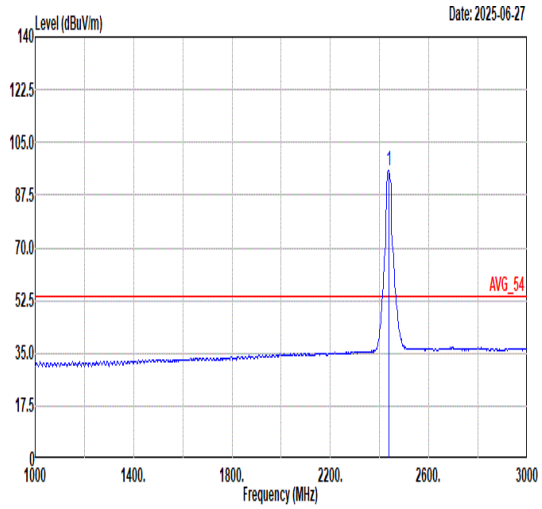
| | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | APos | TPos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 34.85 | 30.35 | 40.00 | -9.65 | 50.00 | 19.15 | 1.09 | 39.89 | --- | --- | Peak |
| 2 | 57.16 | 21.45 | 40.00 | -18.55 | 40.08 | 19.94 | 1.38 | 39.95 | --- | --- | Peak |
| 3 | 145.43 | 30.40 | 43.50 | -13.10 | 48.86 | 19.38 | 2.19 | 40.03 | --- | --- | Peak |
| 4 | 277.35 | 22.44 | 46.00 | -23.56 | 40.17 | 19.22 | 3.00 | 39.95 | --- | --- | Peak |
| 5 | 538.28 | 26.82 | 46.00 | -19.18 | 37.83 | 24.49 | 4.18 | 39.68 | --- | --- | Peak |
| 6 | 903.97 | 31.69 | 46.00 | -14.31 | 36.48 | 29.20 | 5.39 | 39.38 | --- | --- | Peak |

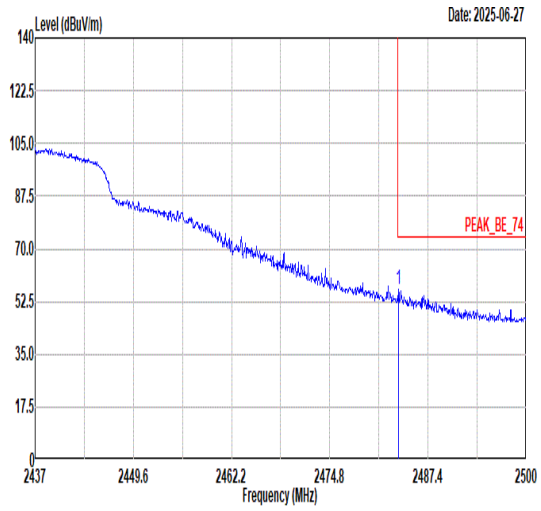
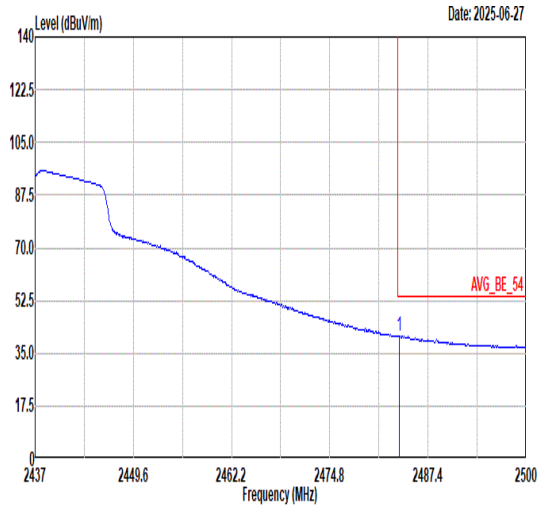
| Mode | 13 | |
|---|---|---|
| | Band Edge - L | |
| | 2400-2483.5_802.11g_CH06_2437MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2389.88 50.09 74.00 -23.91 45.26 30.60 6.87 32.64 158 36 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2437.00 102.67 ------ ------ 97.69 30.68 6.92 32.62 158 36 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2389.12 36.08 54.00 -17.92 31.26 30.60 6.86 32.64 158 36 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2437.00 95.58 ------ ------ 90.62 30.67 6.92 32.63 158 36 AVERAGE |

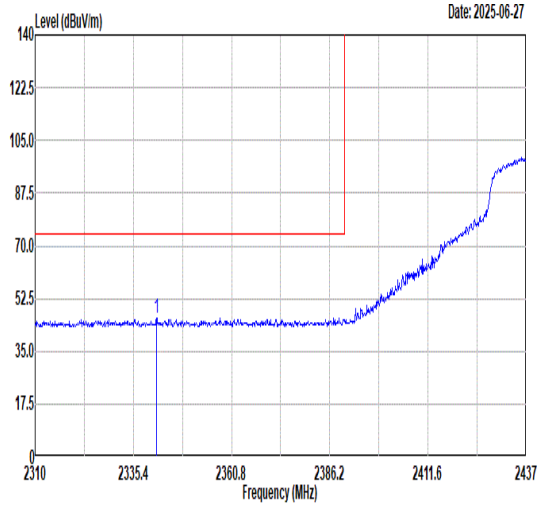
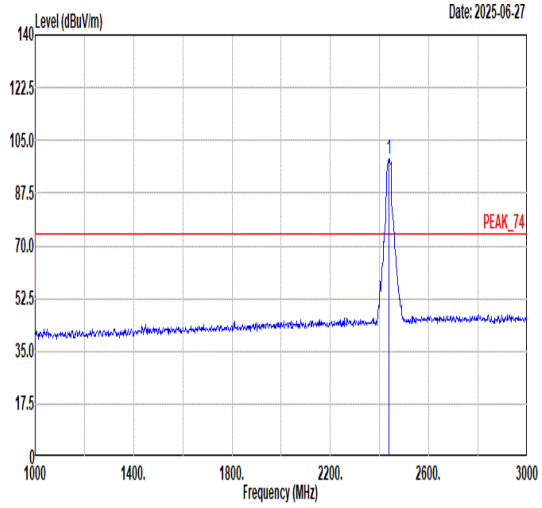
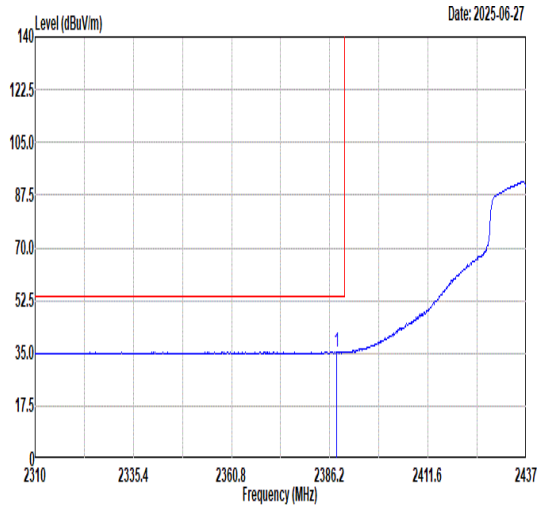
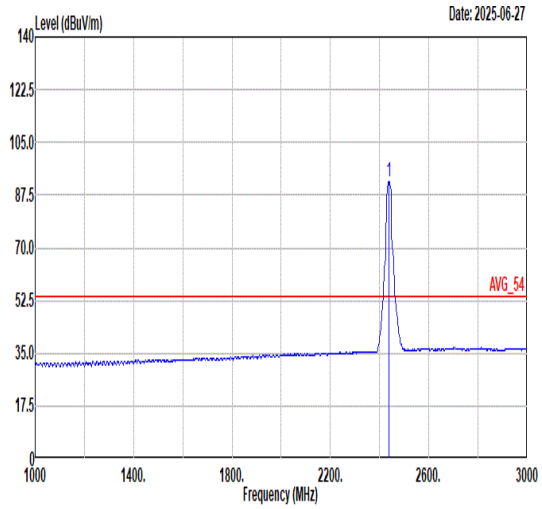
| Mode | 13 | |
|---|---|---|
| | Band Edge - R | |
| | 2400-2483.5_802.11g_CH06_2437MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2486.08 56.18 74.00 -17.82 51.18 30.63 6.98 32.61 158 36 PEAK | Blank |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2483.81 39.03 54.00 -14.97 34.03 30.63 6.98 32.61 158 36 AVERAGE | Blank |

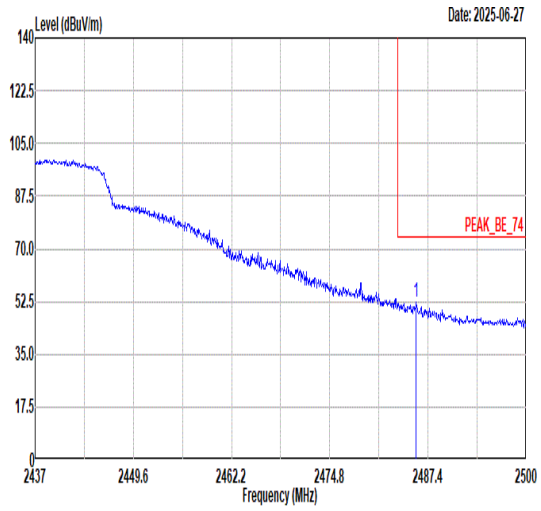
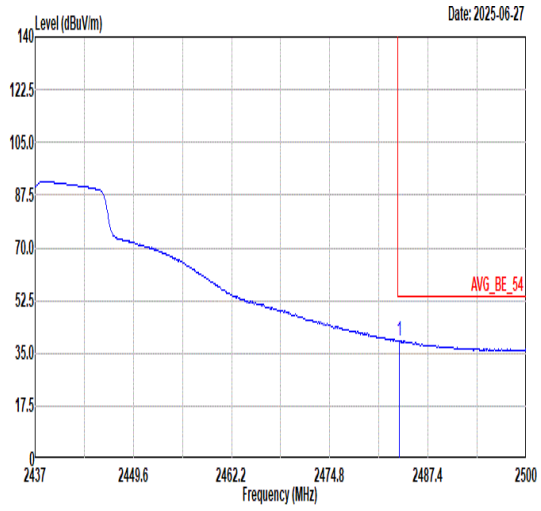
| Mode | 13 | |
|---|---|---|
| | Band Edge - L | |
| | 2400-2483.5_802.11g_CH06_2437MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br><br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2325.24 46.12 74.00 -27.88 41.39 30.60 6.80 32.67 301 327 PEAK |  <br><br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2437.00 99.72 ------ ------ 94.74 30.68 6.92 32.62 301 327 PEAK |
| Avg |  <br><br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2386.96 35.36 54.00 -18.64 30.55 30.60 6.86 32.65 301 327 AVERAGE |  <br><br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2437.00 92.19 ------ ------ 87.21 30.68 6.92 32.62 301 327 AVERAGE |

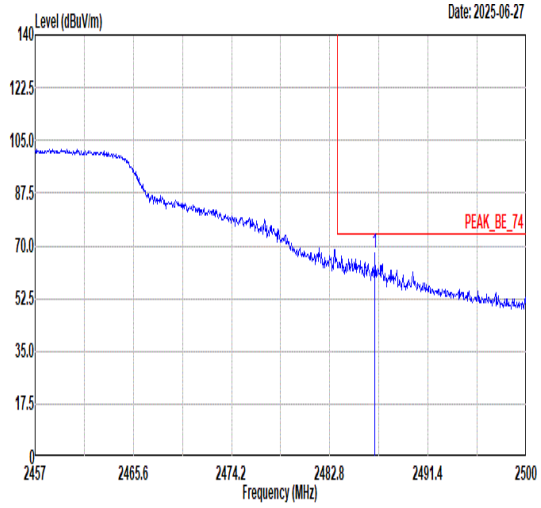
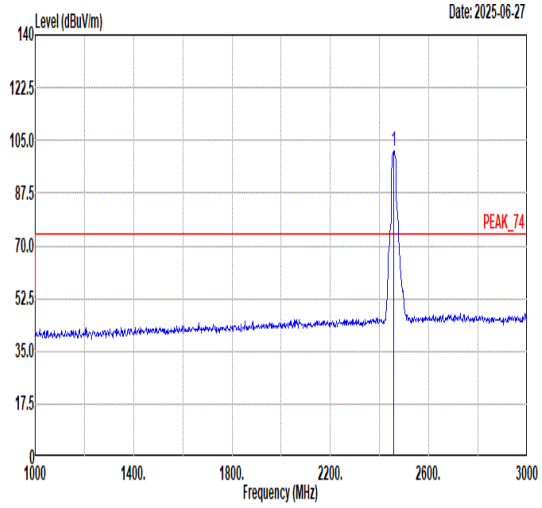
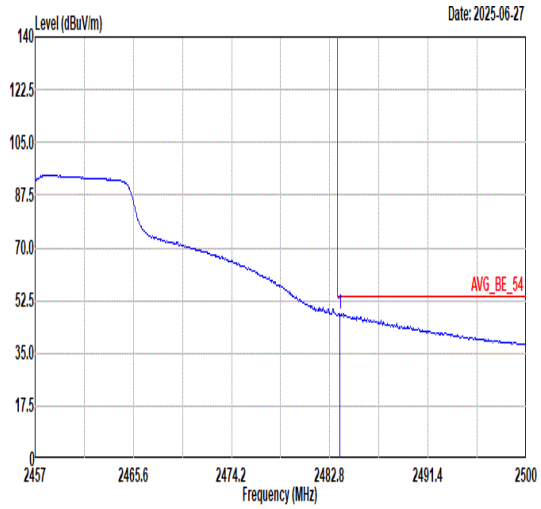
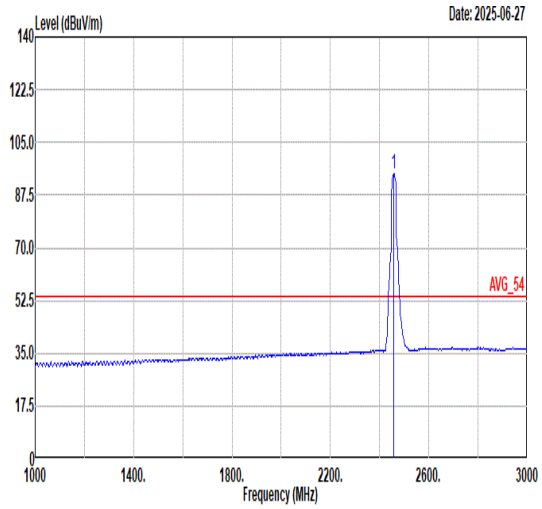
| Mode | 13 | |
|---|---|---|
| | Band Edge - R | |
| | 2400-2483.5_802.11g_CH06_2437MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2485.01 51.35 74.00 -22.65 46.35 30.63 6.98 32.61 301 327 PEAK | Blank |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2483.87 38.36 54.00 -15.64 33.36 30.63 6.98 32.61 301 327 AVERAGE | Blank |

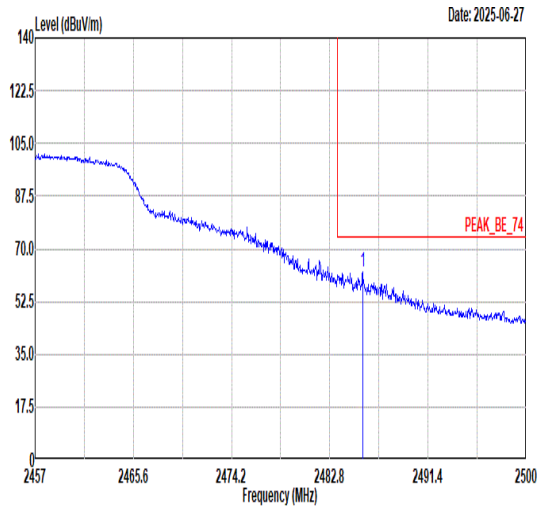
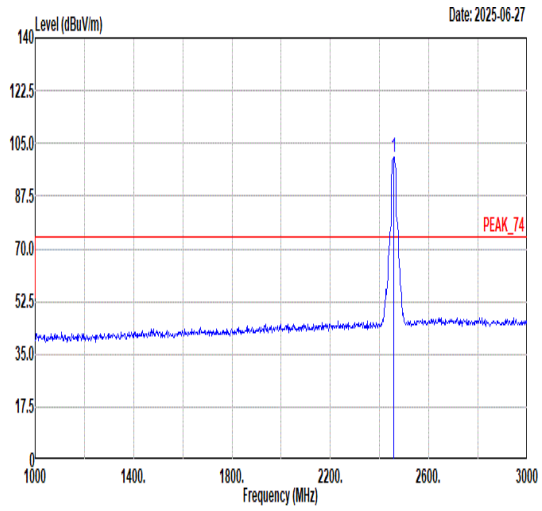
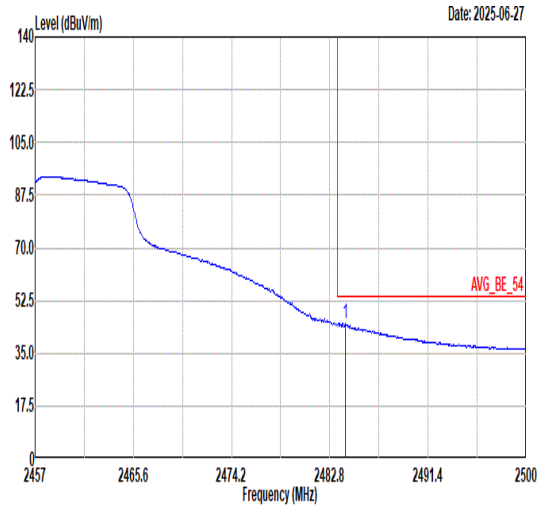
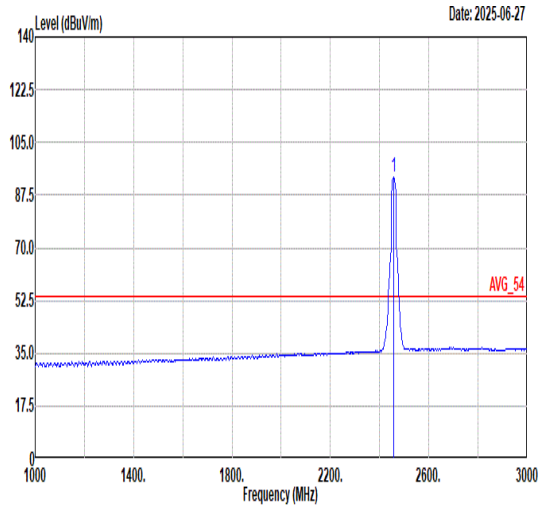
| Mode | 14 | |
|---|---|---|
| | Band Edge - L | |
| | 2400-2483.5_802.11ac VHT20_CH06_2437MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2388.61 50.14 74.00 -23.86 45.32 30.60 6.86 32.64 138 35 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2437.00 102.71 ------ ------ 97.73 30.68 6.92 32.62 138 35 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2389.76 36.99 54.00 -17.01 32.16 30.60 6.87 32.64 138 35 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2437.00 95.83 ------ ------ 90.87 30.67 6.92 32.63 138 35 AVERAGE |

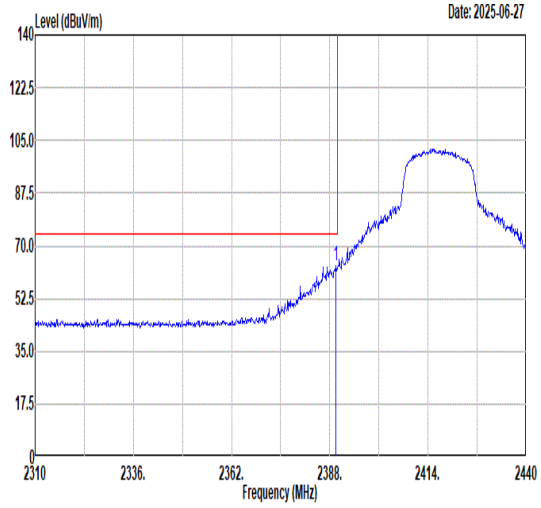
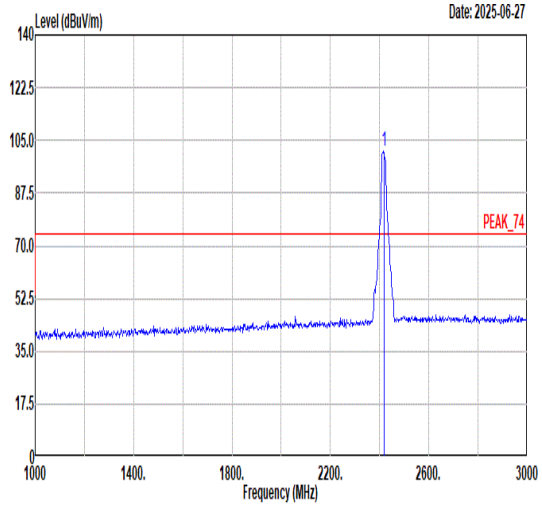
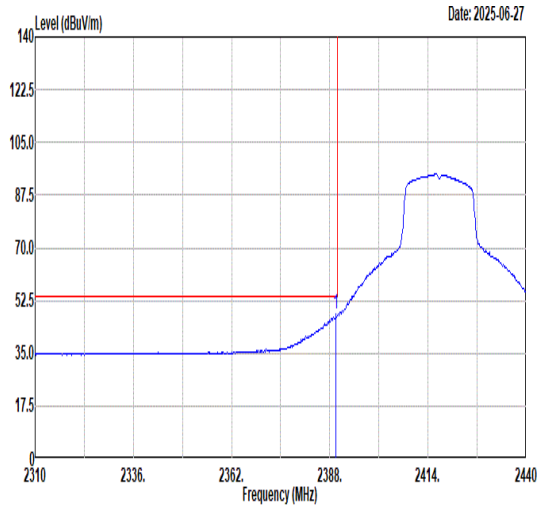
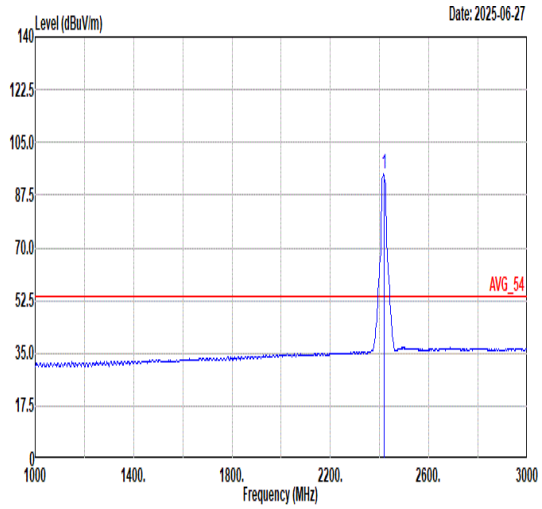
| Mode | 14 | |
|---|---|---|
| | Band Edge - R | |
| | 2400-2483.5_802.11ac VHT20_CH06_2437MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2483.62 56.43 74.00 -17.57 51.43 30.63 6.98 32.61 138 35 PEAK | Blank |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2483.75 40.86 54.00 -13.14 35.86 30.63 6.98 32.61 138 35 AVERAGE | Blank |

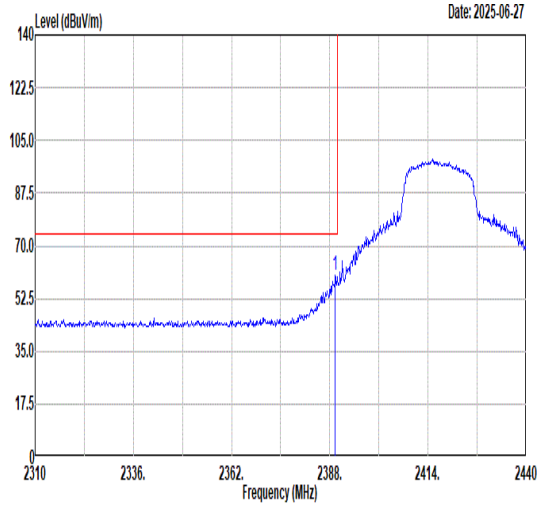
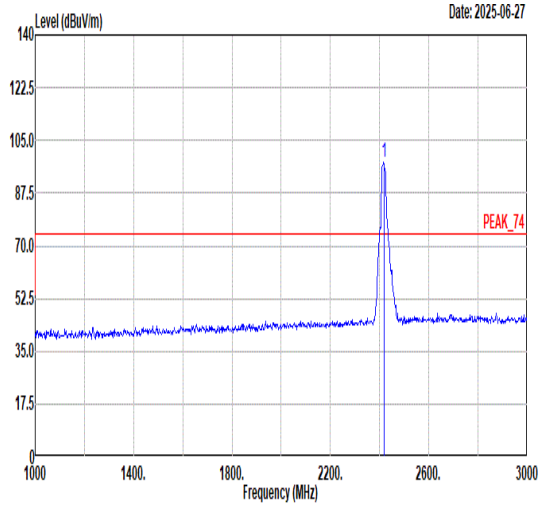
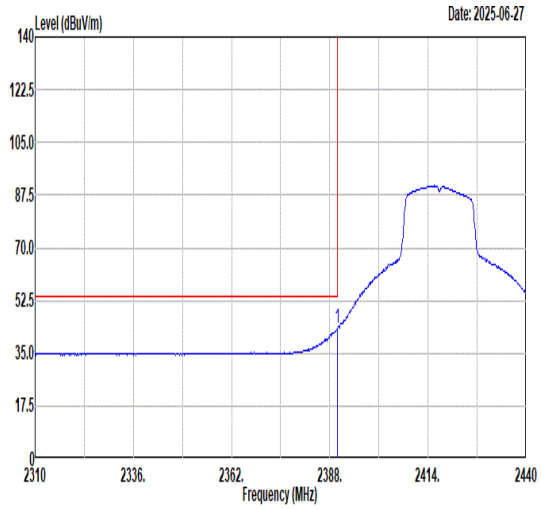
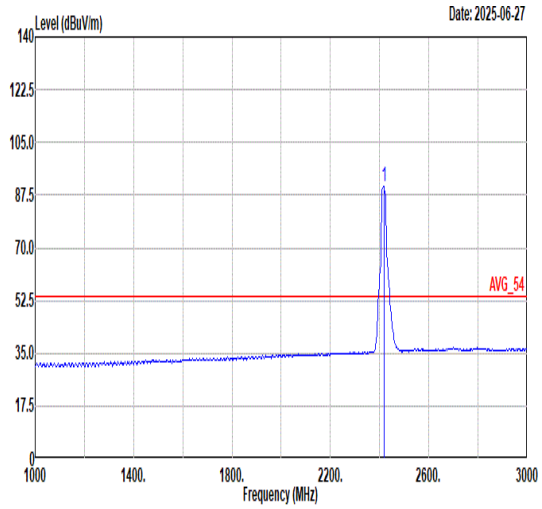
| Mode | 14 | |
|---|---|---|
| | Band Edge - L | |
| | 2400-2483.5_802.11ac VHT20_CH06_2437MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2341.37 45.94 74.00 -28.06 41.19 30.60 6.81 32.66 301 330 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2437.00 98.85 ------ ------ 93.87 30.68 6.92 32.62 301 330 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2387.98 35.64 54.00 -18.36 30.82 30.60 6.86 32.64 301 330 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2437.00 91.99 ------ ------ 87.01 30.68 6.92 32.62 301 330 AVERAGE |

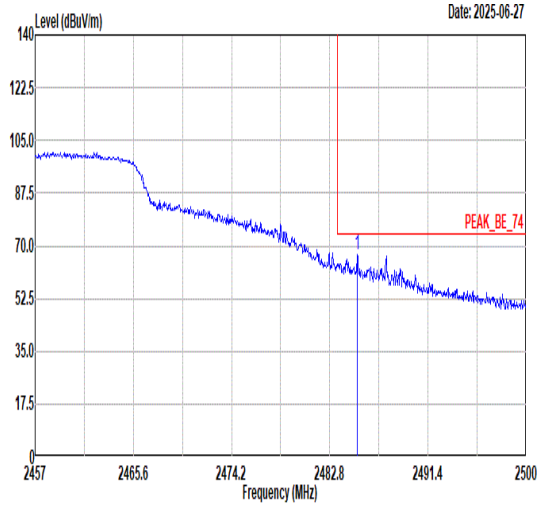
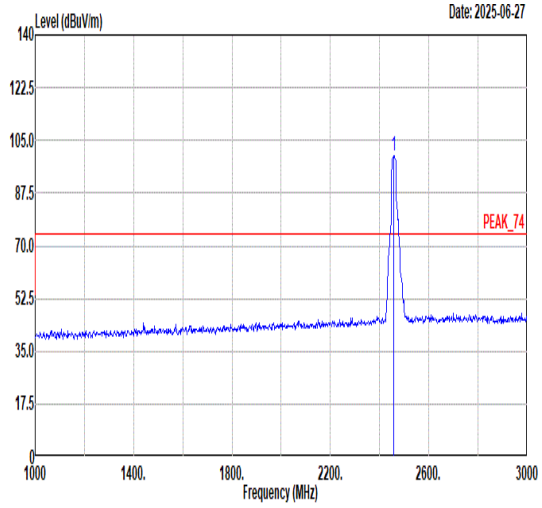
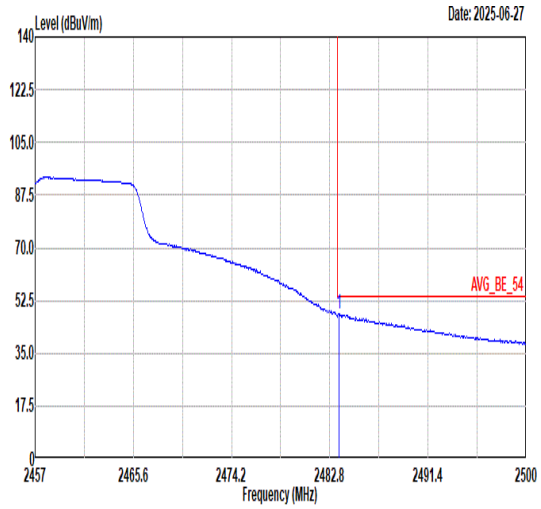
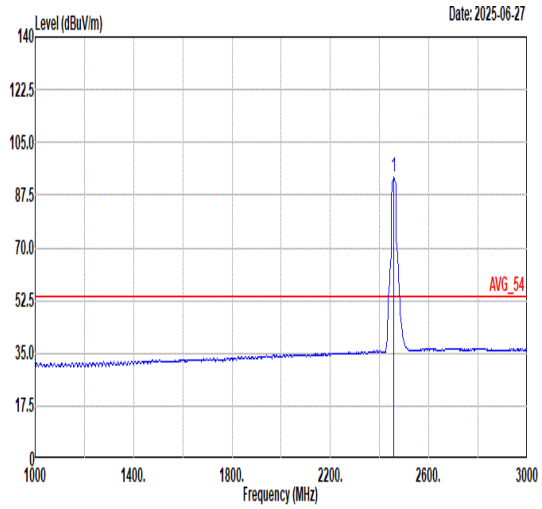
| Mode | 14 | |
|---|---|---|
| | Band Edge - R | |
| | 2400-2483.5_802.11ac VHT20_CH06_2437MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2485.89 52.17 74.00 -21.83 47.17 30.63 6.98 32.61 301 330 PEAK | Blank |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2483.68 39.15 54.00 -14.85 34.15 30.63 6.98 32.61 301 330 AVERAGE | Blank |

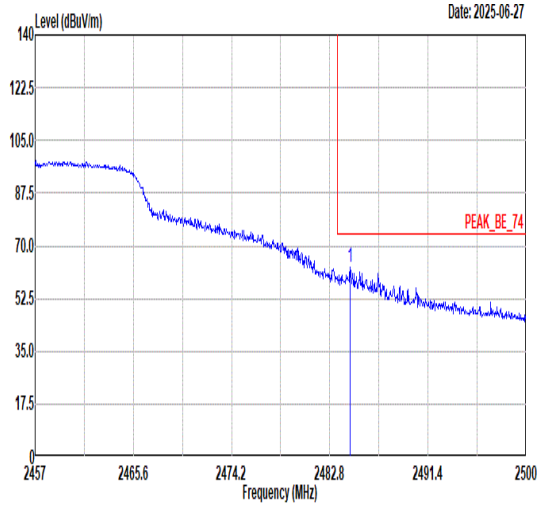
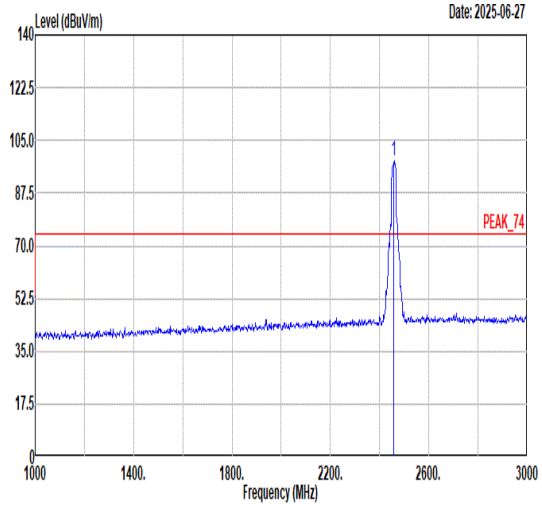
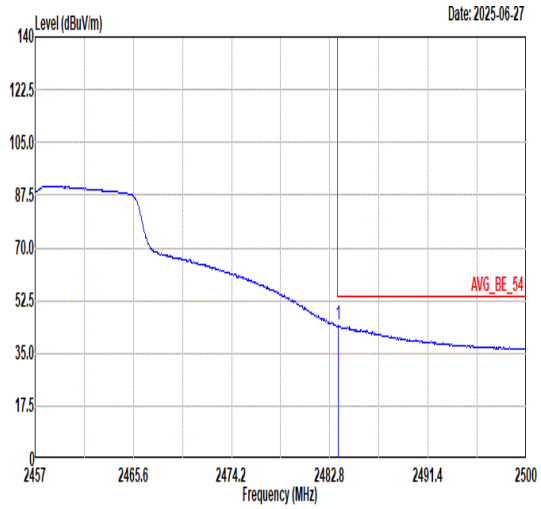
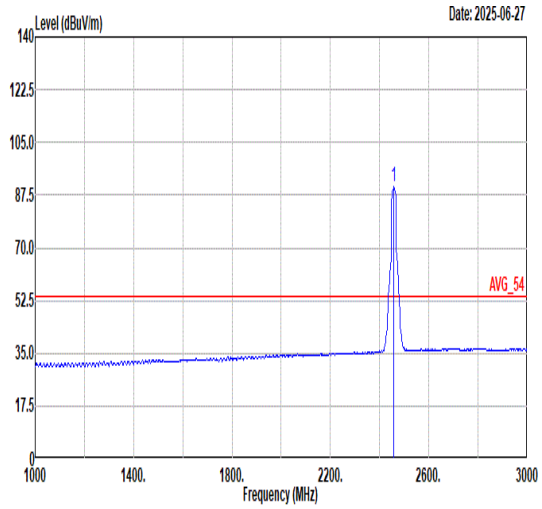
| Mode | 15 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11g_CH10_2457MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2486.76 67.52 74.00 -6.48 62.52 30.63 6.98 32.61 385 32 PEAK |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2457.00 101.63 ------ ------ 96.62 30.68 6.95 32.62 385 32 PEAK |
| Avg |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2483.66 48.29 54.00 -5.71 43.29 30.63 6.98 32.61 385 32 AVERAGE |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2457.00 94.57 ------ ------ 89.56 30.68 6.95 32.62 385 32 AVERAGE |

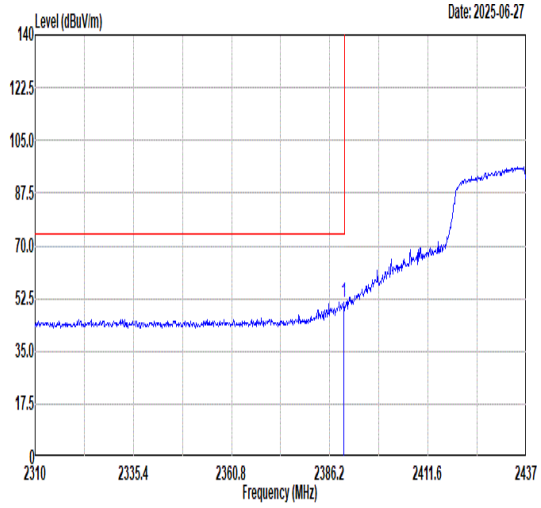
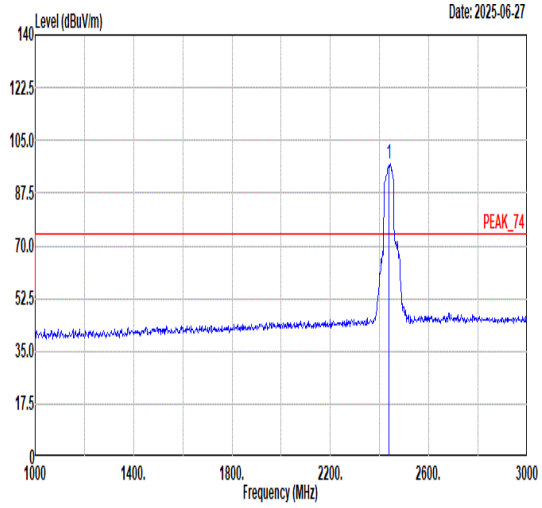
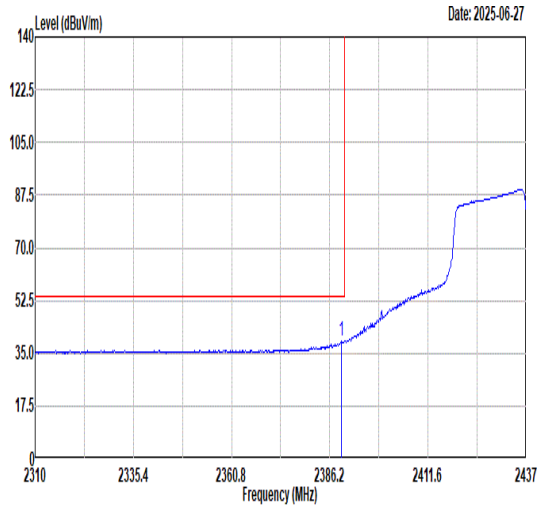
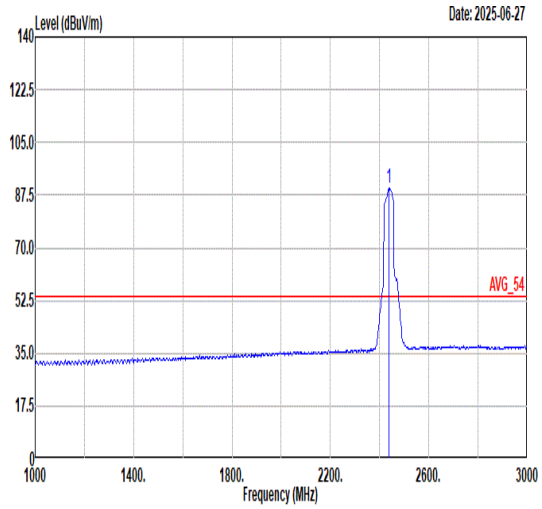
| Mode | 15 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11g_CH10_2457MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2485.68 62.19 74.00 -11.81 57.19 30.63 6.98 32.61 207 272 PEAK |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2457.00 100.50 ------ ------ 95.49 30.68 6.95 32.62 207 272 PEAK |
| Avg |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2484.13 44.91 54.00 -9.09 39.91 30.63 6.98 32.61 207 272 AVERAGE |  <br>Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg<br>1 2457.00 93.57 ------ ------ 88.56 30.69 6.94 32.62 207 272 AVERAGE |

| Mode | 16 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11ac VHT20_CH02_2417MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2389.56 63.52 74.00 -10.48 58.69 30.60 6.87 32.64 374 19 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2417.00 101.22 ------ ------ 96.32 30.63 6.90 32.63 374 19 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2389.69 47.86 54.00 -6.14 43.03 30.60 6.87 32.64 374 19 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2417.00 94.38 ------ ------ 89.48 30.63 6.90 32.63 374 19 AVERAGE |

| Mode | 16 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11ac VHT20_CH02_2417MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2389.43 60.07 74.00 -13.93 55.24 30.60 6.87 32.64 311 329 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2417.00 97.72 ------ ------ 92.82 30.63 6.90 32.63 311 329 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2389.95 43.29 54.00 -10.71 38.46 30.60 6.87 32.64 311 329 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2417.00 90.49 ------ ------ 85.59 30.63 6.90 32.63 311 329 AVERAGE |

| Mode | 17 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11ac VHT20_CH10_2457MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2485.21 66.86 74.00 -7.14 61.86 30.63 6.98 32.61 386 31 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2457.00 100.05 ------ ------ 95.04 30.68 6.95 32.62 386 31 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2483.62 48.15 54.00 -5.85 43.15 30.63 6.98 32.61 386 31 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2457.00 93.27 ------ ------ 88.26 30.68 6.95 32.62 386 31 AVERAGE |

| Mode | 17 | |
|---|---|---|
| | Band Edge | |
| | 2400-2483.5_802.11ac VHT20_CH10_2457MHz | |
| ANT | 6 | |
| Pol. | Vertical | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2484.56 63.08 74.00 -10.92 58.08 30.63 6.98 32.61 296 327 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2457.00 98.02 ------ ------ 93.01 30.68 6.95 32.62 296 327 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2483.53 44.14 54.00 -9.86 39.14 30.63 6.98 32.61 296 327 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg<br>1 2457.00 90.22 ------ ------ 85.21 30.68 6.95 32.62 296 327 AVERAGE |

| Mode | 18 | |
|---|---|---|
| | Band Edge - L | |
| | 2400-2483.5_802.11ac VHT40_CH06_2437MHz | |
| ANT | 6 | |
| Pol. | Horizontal | Fundamental |
| Peak |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2389.88 51.31 74.00 -22.69 46.48 30.60 6.87 32.64 160 36 PEAK |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2437.00 97.18 ------ ------ 92.18 30.69 6.93 32.62 160 36 PEAK |
| Avg |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2389.12 38.90 54.00 -15.10 34.08 30.60 6.86 32.64 160 36 AVERAGE |  <br>Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark<br>1 2437.00 89.71 ------ ------ 84.73 30.68 6.92 32.62 160 36 AVERAGE |