



# TEST REPORT

Applicant: HK NOMI LIMITED  
Address of Applicant: FLAT/RM 1406B 14/F THE BELGIAN BANK BUILDING NOS 721-725 NATHAN ROAD MONGKOK KL  
Manufacturer: Daxinkai (Shenzhen) Electronic Technology Co. Ltd  
Address of Manufacturer: Room 402, Building 1, No. 349, Pinglong East Road, Pinghu Street, Longgang District, Shenzhen City  
Product Name: MiniPC  
Model No.: MID3  
Trade Mark: KTHIN  
FCC ID: 2BP97-MID3  
Applicable standards: CFR Title 47 Part 15.247  
Date of Test: Jun.09, 2025-Jun.30, 2025  
Date of report issued: Jul.03, 2025

*Remark:*

*The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company.*

*The report would be invalid without specific stamp of test institute and the signatures of compiler and approver*

## Prepared By

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Reviewed by:

Approved by:

Project Engineer

Project Manager

Authorized Signature



| Report Revision History |             |              |
|-------------------------|-------------|--------------|
| Report No.              | Description | Issue Date   |
| ET-25061752E01          | Original    | Jul.03, 2025 |
|                         |             |              |



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## 1. Test Summary

| Test Item                        | Section                                          | Result | Test by     |
|----------------------------------|--------------------------------------------------|--------|-------------|
| Antenna requirement              | 47CRF part 15.203/15.247 (c)                     | Pass   | /           |
| AC Power Line Conducted Emission | 47CRF part 15.207                                | Pass   | Jason Huang |
| Conducted Peak Output Power      | 47CRF part 15.247 (b)(3)                         | Pass   | Kara Wu     |
| 6dB Bandwidth                    | 47CRF part 15.247 (a)(2)                         | Pass   | Kara Wu     |
| Power Spectral Density           | 47CRF part 15.247 (e)                            | Pass   | Kara Wu     |
| Band Edge                        | 47CRF part 15.247(d)<br>47CRF part 15.205/15.209 | Pass   | Kara Wu     |
| Spurious Emission                | 47CRF part 15.247(d)<br>47CRF part 15.205/15.209 | Pass   | Jason Huang |

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02.
3. Note: Compliance determination rules
  - 1).The Compliance determination of test results does not take into account measurement uncertainty. Measurement results are determined based on regulatory limitations or requirements specified by the applicant/manufacture. If measurement uncertainty is taken into account, the applicant/manufacture will bear all possible risks of non-compliance.
  - 2).The measurement uncertainty please refer to each test result in the "Measurement Uncertainty"

### Measurement Uncertainty

| Test Item                         | Measurement Uncertainty | Notes |
|-----------------------------------|-------------------------|-------|
| Occupied Channel Bandwidth        | 0.55%                   | (1)   |
| RF output power, conducted        | ±0.57 dB                | (1)   |
| Power Spectral Density, conducted | ±0.61 dB                | (1)   |
| Unwanted Emissions, conducted     | ±0.64 dB                | (1)   |
| AC Power Line Conducted Emission  | ± 2.55 dB               | (1)   |
| Radiated emissions 9K-30MHz       | ±3.79 dB                | (1)   |
| Radiated emissions 30M- 1GHz      | ± 4.24 dB               | (1)   |
| Radiated emissions 1GHz-18GHz     | ± 4.26 dB               | (1)   |
| Radiated emissions 18GHz-40GHz    | ±4.17 dB                | (1)   |
| Frequency error                   | Uc=1X10 <sup>-7</sup>   | (1)   |
| Duty Cycle                        | 0.03%                   | (1)   |

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.



## 2. General Information

### 2.1 General Description of EUT

|                        |                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Product Name:          | MiniPC                                                                                                                            |
| Model No.:             | MID3                                                                                                                              |
| Difference of model(s) | N/A                                                                                                                               |
| Test Model:            | MID3                                                                                                                              |
| Hardware version:      | V21                                                                                                                               |
| Software version:      | 2.22.1289                                                                                                                         |
| Sample(s) Status       | Engineer sample                                                                                                                   |
| Operation Frequency:   | 2402MHz~2480MHz                                                                                                                   |
| Channel Numbers:       | 40                                                                                                                                |
| Channel separation:    | 2MHz                                                                                                                              |
| Modulation technology: | GFSK                                                                                                                              |
| Antenna Type:          | FPCB antenna                                                                                                                      |
| Antenna gain:          | 2.87dBi (Note: Antenna information is provided by applicant, Testing lab is not responsible for the accuracy of the information.) |
| Power supply:          | 20VDC from adapter with 100-240Vac                                                                                                |
| Battery:               | N/A                                                                                                                               |
| Adapter:               | Model: GQ100APD01-ZU<br>Input:100-240Vac 1.5a<br>Output: 20V 5A                                                                   |

*Remark: For more details, refer to the user's manual of the EUT.*



| Operation Frequency each of channel |           |         |           |         |           |         |           |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                             | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1                                   | 2402 MHz  | 11      | 2422 MHz  | 21      | 2442 MHz  | 31      | 2462 MHz  |
| 2                                   | 2404 MHz  | 12      | 2424 MHz  | 22      | 2444 MHz  | 32      | 2464 MHz  |
| 3                                   | 2406 MHz  | 13      | 2426 MHz  | 23      | 2446 MHz  | 33      | 2466 MHz  |
| 4                                   | 2408 MHz  | 14      | 2428 MHz  | 24      | 2448 MHz  | 34      | 2468 MHz  |
| 5                                   | 2410 MHz  | 15      | 2430 MHz  | 25      | 2450 MHz  | 35      | 2470 MHz  |
| 6                                   | 2412 MHz  | 16      | 2432 MHz  | 26      | 2452 MHz  | 36      | 2472 MHz  |
| 7                                   | 2414 MHz  | 17      | 2434 MHz  | 27      | 2454 MHz  | 37      | 2474 MHz  |
| 8                                   | 2416 MHz  | 18      | 2436 MHz  | 28      | 2456 MHz  | 38      | 2476 MHz  |
| 9                                   | 2418 MHz  | 19      | 2438 MHz  | 29      | 2458 MHz  | 39      | 2478 MHz  |
| 10                                  | 2420 MHz  | 20      | 2440 MHz  | 30      | 2460 MHz  | 40      | 2480 MHz  |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Test channel    | Frequency (MHz) |
|-----------------|-----------------|
| Lowest channel  | 2402MHz         |
| Middle channel  | 2440MHz         |
| Highest channel | 2480MHz         |

## 2.2 Test mode

|                                                                                                                                                                                                                                              |                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Transmitting mode                                                                                                                                                                                                                            | Keep the EUT in continuously transmitting mode. |
| <i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i> |                                                 |

## 2.3 Description of Support Units

| No. | Description | Manufacturer | Model  | Serial Number |
|-----|-------------|--------------|--------|---------------|
| 1   | mouse       | DELL         | MS116  | /             |
| 2   | keyboard    | DELL         | KB216t | /             |
| 3   | Monitor     | SKYWORTH     | 2BU1   | /             |
| 4   | Earphone    | Feilida      | i6     | /             |

## 2.4 Test Facility

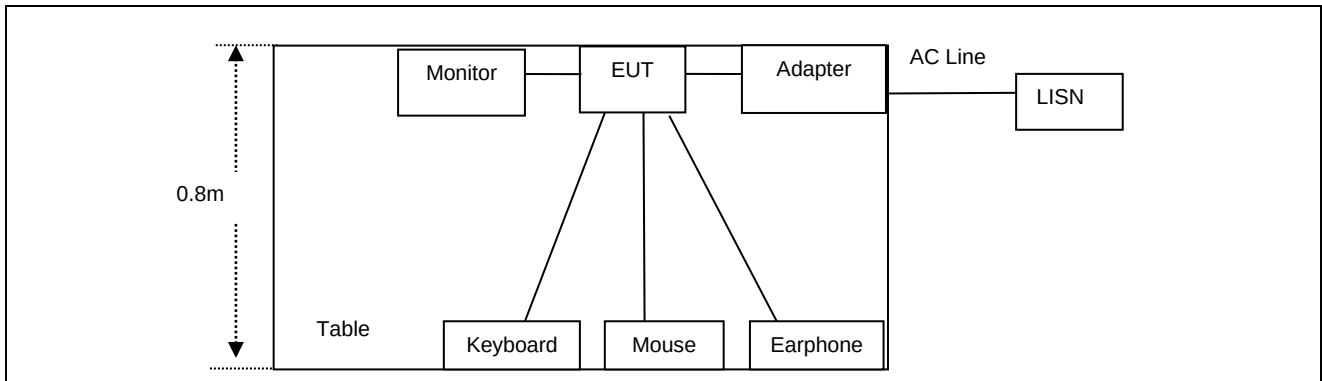
|                             |                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Test laboratory:            | Shenzhen ETR Standard Technology Co., Ltd.                                                                                |
| CNAS Registration Number:   | L11864                                                                                                                    |
| A2LA Certificate Number:    | 6640.01                                                                                                                   |
| FCC Designation Number:     | CN1326                                                                                                                    |
| FCC Test Firm Registration: | 183064                                                                                                                    |
| IC Company Number:          | 28440                                                                                                                     |
| IC CAB identifier:          | CN0132                                                                                                                    |
| Laboratory location:        | No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |

## 2.5 Additional Instructions

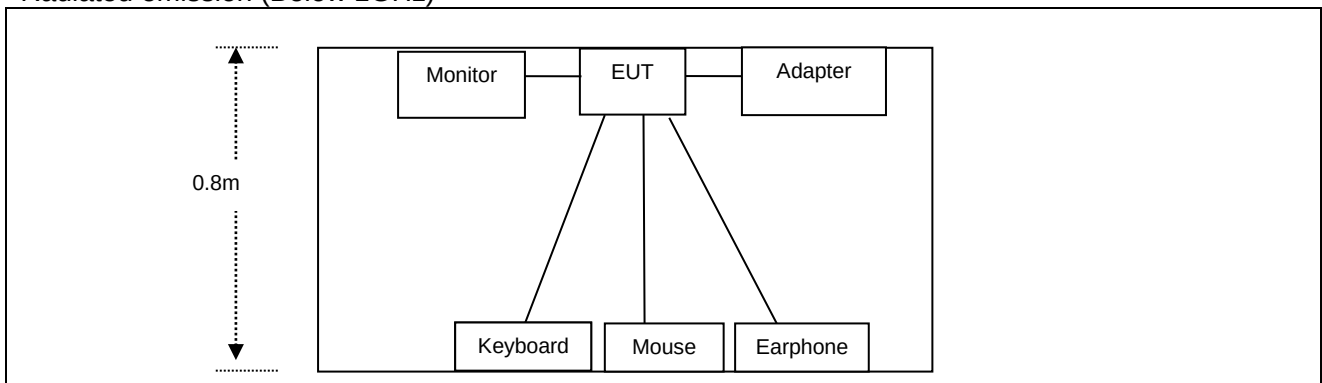
|                   |                           |
|-------------------|---------------------------|
| Test Software     | DRTU.EXE(VERSION:0.0.0.0) |
| Power level setup | Default                   |

## 2.6 Block diagram displaying the configuration of the tested system

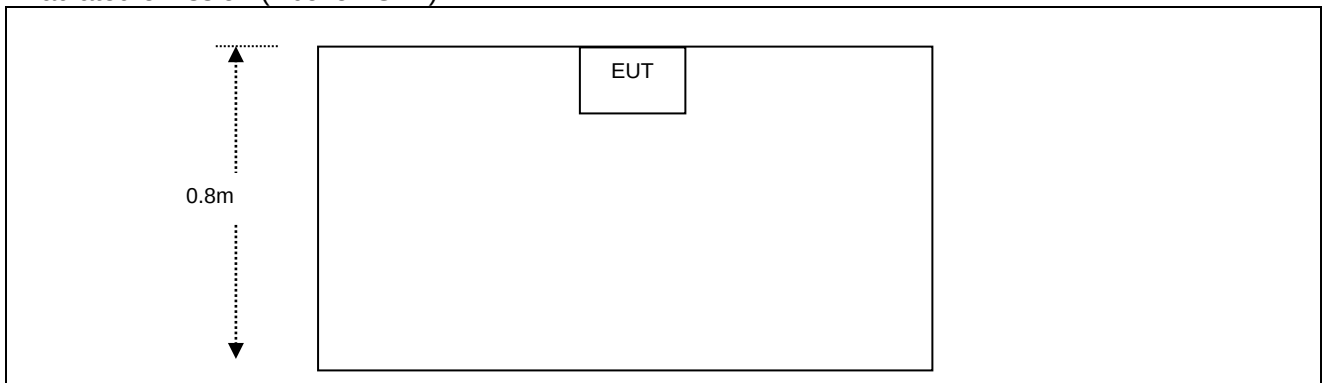
### Conducted emission



### Radiated emission (Below 1GHz)



### Radiated emission (Above 1GHz)







### 3. Test Instruments list

| Item | Equipment name           | Manufacturer        | Model                      | Serial No.   | Calibration date | Due date  |
|------|--------------------------|---------------------|----------------------------|--------------|------------------|-----------|
| 1    | EMI Test Receiver        | Rohde&schwarz       | ESCI7                      | 100605       | 2025.3.06        | 2026.3.05 |
| 2    | EMI Test Receiver        | Rohde&schwarz       | ESCI3                      | 102696       | 2025.3.06        | 2026.3.05 |
| 3    | Loop Antenna             | schwarabeck         | FMZB 1519 B                | FMZB 1519 B  | 2024.3.22        | 2026.3.21 |
| 4    | Broadband antenna        | schwarabeck         | VULB9168                   | 1064         | 2024.3.26        | 2026.3.25 |
| 5    | Horn antenna             | schwarabeck         | BBHA9120D                  | 9120D-1145   | 2024.3.22        | 2026.3.21 |
| 6    | amplifier                | EMtrace             | RP01A                      | 50117        | 2025.3.06        | 2026.3.05 |
| 7    | AMN                      | schwarabeck         | NSLK8127                   | 8127483      | 2025.3.06        | 2026.3.05 |
| 8    | AMN                      | ETS                 | 3186/2NM                   | 1132         | 2025.3.06        | 2026.3.05 |
| 9    | 10dB attenuator          | HUBER+SUHN<br>R     | 10dB                       | /            | 2025.3.06        | 2026.3.05 |
| 10   | amplifier                | Space-Dtronics      | EWLAN0118G-<br>P40         | 19113001     | 2025.3.06        | 2026.3.05 |
| 11   | Filter                   | Xingbo              | XBLBQ-GTA19                | 210410-3-1   | 2025.3.06        | 2026.3.05 |
| 12   | Spectrum analyzer        | KEYSIGHT            | N9020A                     | MY55370280   | 2025.3.06        | 2026.3.05 |
| 13   | Power control box        | MWRFTest            | MW100-PSB                  | MW201020JYT  | 2025.3.06        | 2026.3.05 |
| 14   | Power Sensor             | Keysight            | U2021XA                    | MY54111006   | 2025.3.06        | 2026.3.05 |
| 15   | amplifier                | SKET                | LNPA_1840-50<br>(18-40GHz) | SK2019040302 | 2025.3.06        | 2026.3.05 |
| 16   | Horn antenna             | schwarabeck         | BBHA 9170                  | 946          | 2024.3.22        | 2026.3.21 |
| 17   | Temp. & Humidity Chamber | Jiecheng Instrument | QA-LP-80                   | 20160705001  | 2025.3.07        | 2026.3.06 |

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

| Software Name           | Manufacturer | Model    | Version           |
|-------------------------|--------------|----------|-------------------|
| RF test software        | MWRFTest     | MTS 8310 | V2.0.0.0          |
| Conducted test software | EZ-EMC       | Farad    | Ver.EMC-CON 3A1.1 |
| Radiated test software  | EZ-EMC       | Farad    | Ver.FA-03A2 RE    |

## 4. Test results and Measurement Data

### 4.1 Antenna requirement

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 47CRF Part 15.203 /247(c) |
| <b>15.203 requirement:</b><br>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. |                           |
| <b>15.247(c) (1)(i) requirement:</b><br>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.                                                                                |                           |
| <b>EUT Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |
| The antenna is FPCB antenna, the best case gain of the is 2.87dBi, reference to the Internal photos for details.                                                                                                                                                                                                                                                                                                                                                                 |                           |

## 4.2 Conducted Emissions

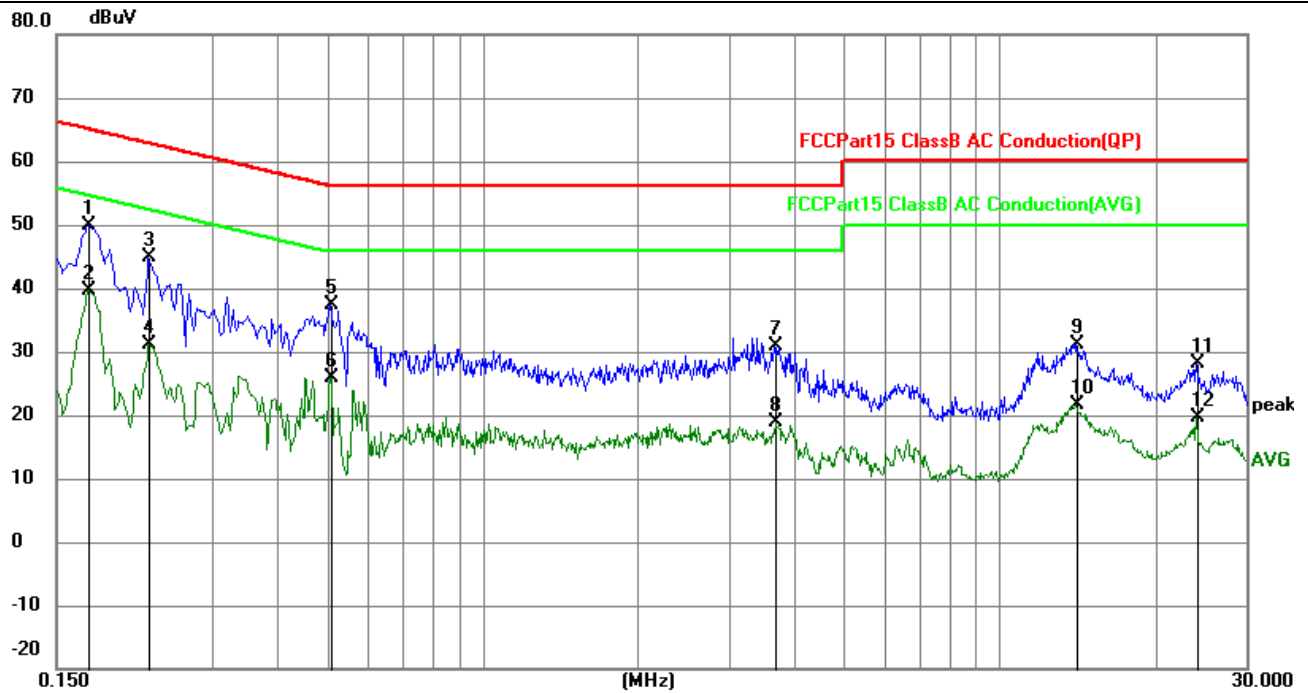
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |              |     |           |          |  |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------|-----|-----------|----------|--|
| Test Requirement:                                | 47CRF part 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |              |     |           |          |  |
| Test Method:                                     | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |              |     |           |          |  |
| Test Frequency Range:                            | 150KHz to 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |              |     |           |          |  |
| Receiver setup:                                  | RBW=9KHz, VBW=30KHz, Sweep time=auto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |              |     |           |          |  |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | Limit (dBuV) |     |           |          |  |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | 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. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |              |     |           |          |  |
| Test setup:                                      | <div><div><div>Reference Plane</div><div>40cm</div><div><div>LISN</div><div><div>AUX Equipment</div><div>E.U.T</div></div><div>80cm</div><div><div>LISN</div><div>Filter</div><div>AC power</div></div><div>EMI Receiver</div></div><div>Test table/Insulation plane</div></div><div><div>Remark:</div><div>E.U.T: Equipment Under Test</div><div>LISN: Line Impedance Stabilization Network</div><div>Test table height=0.8m</div></div></div>                                                                                                                                                                                                                                                                                      |        |              |     |           |          |  |
| Test procedure:                                  | <div><div>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</div><div>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.</div></div> |        |              |     |           |          |  |
| Test Instruments:                                | Refer to section 3.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |              |     |           |          |  |
| Test mode:                                       | Refer to section 2.2 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |              |     |           |          |  |
| Test environment:                                | Temp.:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 26.4°C | Humid.:      | 51% | Press.:   | 1012mbar |  |
| Test voltage:                                    | AC 120V, 60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |              |     |           |          |  |
| Test results:                                    | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |              |     |           |          |  |

### Remark:

1. Both high voltage and low voltage have been tested, and the report only shows the worst case data with AC 120V/60Hz.
2. All mode have been tested, the report only shows the worst mode (2440MHz) data.

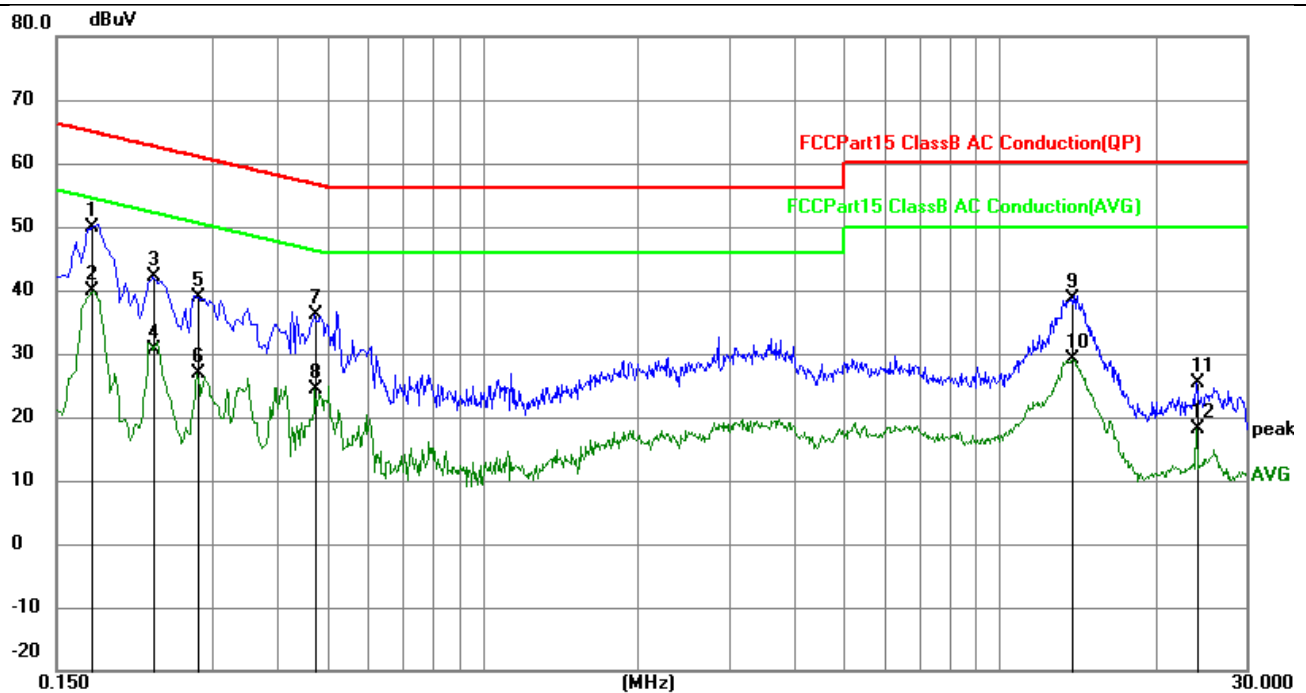
# Measurement data

Line:



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|
| 1   | 0.1725          | 40.11          | 9.81        | 49.92        | 64.84        | -14.92      | QP       |
| 2   | 0.1725          | 29.91          | 9.81        | 39.72        | 54.84        | -15.12      | AVG      |
| 3   | 0.2265          | 35.02          | 9.82        | 44.84        | 62.58        | -17.74      | QP       |
| 4   | 0.2265          | 21.23          | 9.82        | 31.05        | 52.58        | -21.53      | AVG      |
| 5   | 0.5100          | 27.45          | 9.94        | 37.39        | 56.00        | -18.61      | QP       |
| 6   | 0.5100          | 15.96          | 9.94        | 25.90        | 46.00        | -20.10      | AVG      |
| 7   | 3.6645          | 20.98          | 9.84        | 30.82        | 56.00        | -25.18      | QP       |
| 8   | 3.6645          | 9.12           | 9.84        | 18.96        | 46.00        | -27.04      | AVG      |
| 9   | 14.0865         | 21.44          | 9.77        | 31.21        | 60.00        | -28.79      | QP       |
| 10  | 14.0865         | 11.88          | 9.77        | 21.65        | 50.00        | -28.35      | AVG      |
| 11  | 24.0315         | 18.55          | 9.60        | 28.15        | 60.00        | -31.85      | QP       |
| 12  | 24.0315         | 9.97           | 9.60        | 19.57        | 50.00        | -30.43      | AVG      |

### Neutral:

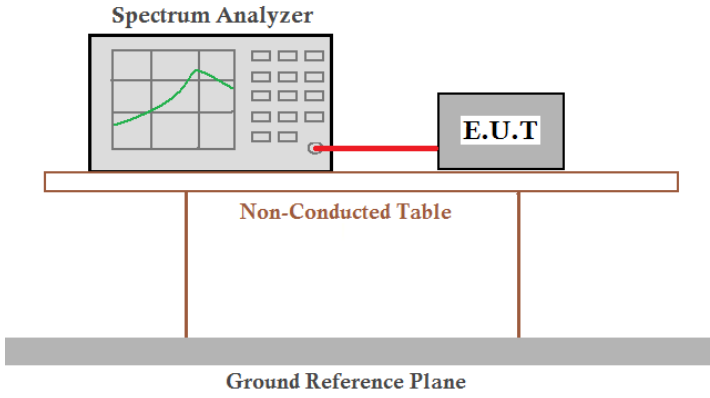


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|
| 1   | 0.1758          | 40.10          | 9.81        | 49.91        | 64.68        | -14.77      | QP       |
| 2   | 0.1758          | 30.14          | 9.81        | 39.95        | 54.68        | -14.73      | AVG      |
| 3   | 0.2310          | 32.39          | 9.82        | 42.21        | 62.41        | -20.20      | QP       |
| 4   | 0.2310          | 20.93          | 9.82        | 30.75        | 52.41        | -21.66      | AVG      |
| 5   | 0.2805          | 29.10          | 9.84        | 38.94        | 60.80        | -21.86      | QP       |
| 6   | 0.2805          | 16.98          | 9.84        | 26.82        | 50.80        | -23.98      | AVG      |
| 7   | 0.4740          | 26.17          | 9.93        | 36.10        | 56.44        | -20.34      | QP       |
| 8   | 0.4740          | 14.38          | 9.93        | 24.31        | 46.44        | -22.13      | AVG      |
| 9   | 13.7985         | 28.90          | 9.77        | 38.67        | 60.00        | -21.33      | QP       |
| 10  | 13.7985         | 19.28          | 9.77        | 29.05        | 50.00        | -20.95      | AVG      |
| 11  | 24.0270         | 15.81          | 9.60        | 25.41        | 60.00        | -34.59      | QP       |
| 12  | 24.0270         | 8.48           | 9.60        | 18.08        | 50.00        | -31.92      | AVG      |

### Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Level = Receiver Read level + Factor (Factor = LISN Factor + Cable Loss + Attenuator Factor)
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

### 4.3 Duty cycle

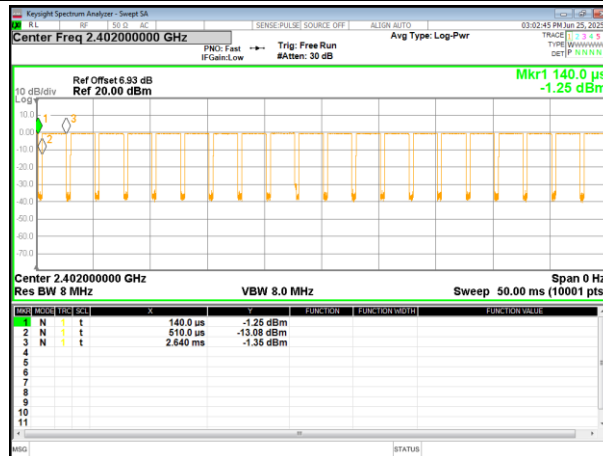
|                   |                                                                                                                                                                                                                                                                                                                |               |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Test Method :     | ANSI C63.10:2013                                                                                                                                                                                                                                                                                               |               |
| Limit:            | /                                                                                                                                                                                                                                                                                                              |               |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p> |               |
| Test Instruments: | Refer to section 3.0 for details                                                                                                                                                                                                                                                                               |               |
| Test mode:        | Refer to section 2.2 for details                                                                                                                                                                                                                                                                               |               |
| Test environment: | Temp.: 24.7°C                                                                                                                                                                                                                                                                                                  | Humid.: 60%RH |
| Test voltage:     | 20V DC                                                                                                                                                                                                                                                                                                         |               |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                           |               |

### Measurement Result

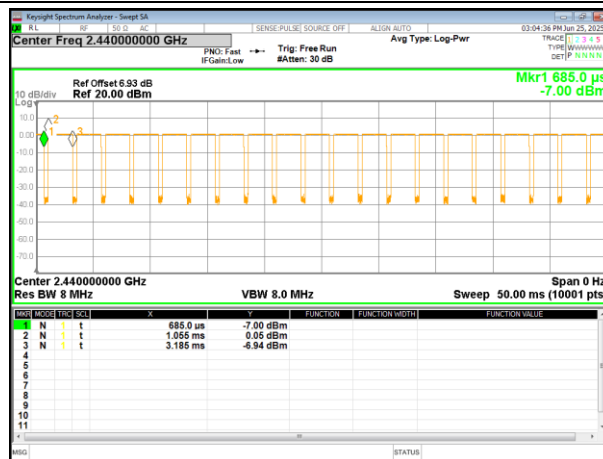
| Test channel | Duty Cycle (%) | Correction Factor (dB) |
|--------------|----------------|------------------------|
| Lowest       | 85.20          | 0.70                   |
| Middle       | 85.20          | 0.70                   |
| Highest      | 85.20          | 0.70                   |



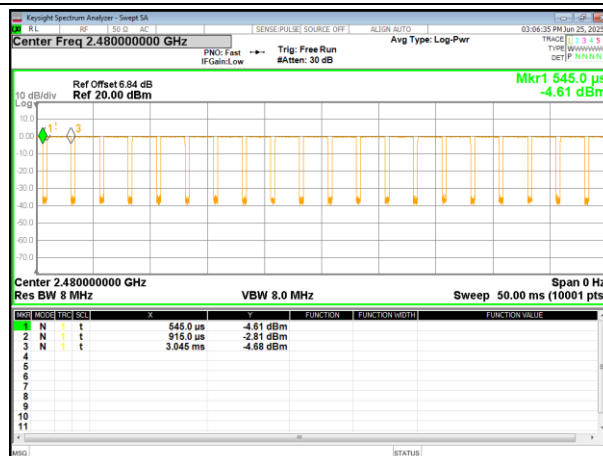
Test plot as follows:



Lowest channel

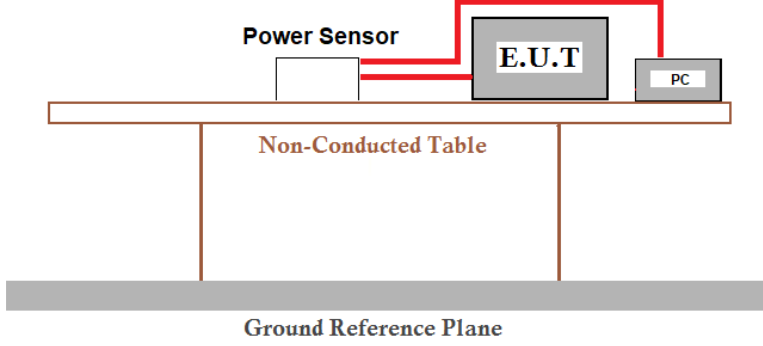


Middle channel



Highest channel

#### 4.4 Conducted Output Power

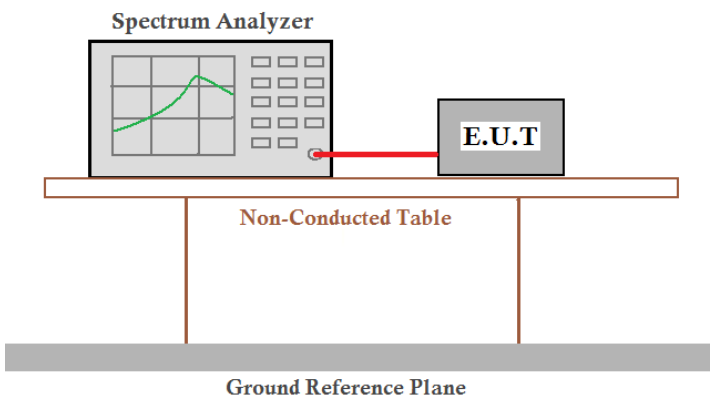
|                    |                                                                                    |               |
|--------------------|------------------------------------------------------------------------------------|---------------|
| Test Requirement : | 47CRF Part 15.247 (b)(3)                                                           |               |
| Test Method :      | ANSI C63.10:2013, KDB558074 D01 15.247 Meas Guidance v05r02                        |               |
| Limit:             | 30dBm for conducted                                                                |               |
| Test setup:        |  |               |
| Test Instruments:  | Refer to section 3.0 for details                                                   |               |
| Test mode:         | Refer to section 2.2 for details                                                   |               |
| Test environment:  | Temp.: 24.7°C                                                                      | Humid.: 60%RH |
| Test voltage:      | 20V DC                                                                             |               |
| Test results:      | Pass                                                                               |               |

#### Measurement Result

| Test channel | Output Power (dBm) | Limit(dBm) | Result |
|--------------|--------------------|------------|--------|
| Lowest       | -0.38              | 30.00      | Pass   |
| Middle       | 0.62               |            |        |
| Highest      | -0.38              |            |        |



#### 4.5 6dB Bandwidth

|                    |                                                                                    |               |
|--------------------|------------------------------------------------------------------------------------|---------------|
| Test Requirement : | 47CRF part 15.247 (a)(2)                                                           |               |
| Test Method :      | ANSI C63.10:2013                                                                   |               |
| Limit:             | >500KHz                                                                            |               |
| Test setup:        |  |               |
| Test Instruments:  | Refer to section 3.0 for details                                                   |               |
| Test mode:         | Refer to section 2.2 for details                                                   |               |
| Test environment:  | Temp.: 24.7°C                                                                      | Humid.: 60%RH |
| Test voltage:      | 20V DC                                                                             |               |
| Test results:      | Pass                                                                               |               |

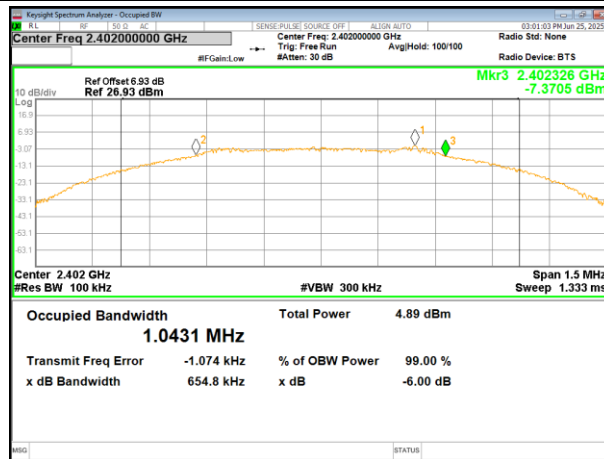
#### Measurement Result

| Test channel | 6dB Bandwidth (MHz) | Limit(KHz) | Result |
|--------------|---------------------|------------|--------|
| Lowest       | 0.6548              | >500       | Pass   |
| Middle       | 0.6572              |            |        |
| Highest      | 0.6729              |            |        |

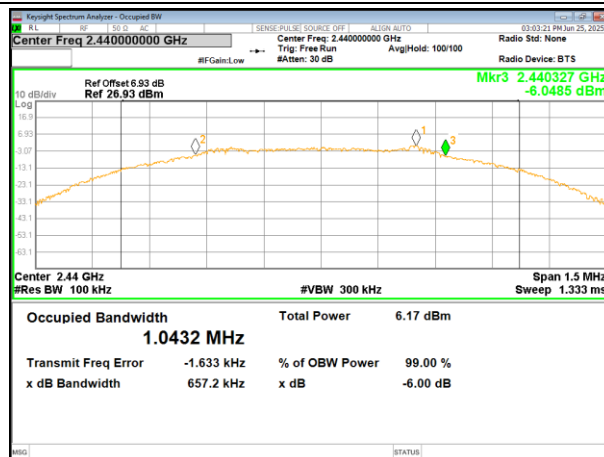


Test plot as follows:

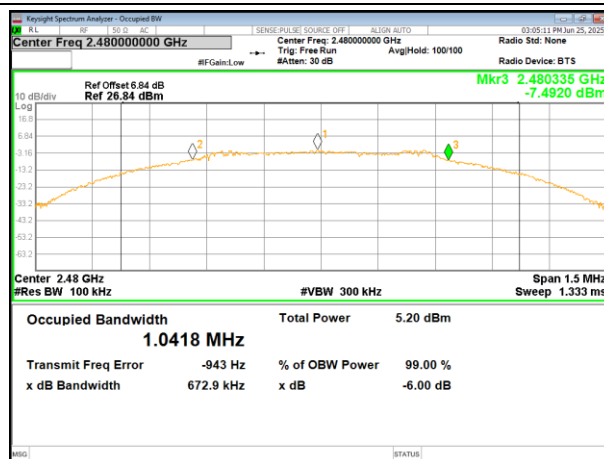
### 6dB Bandwidth



### Lowest channel

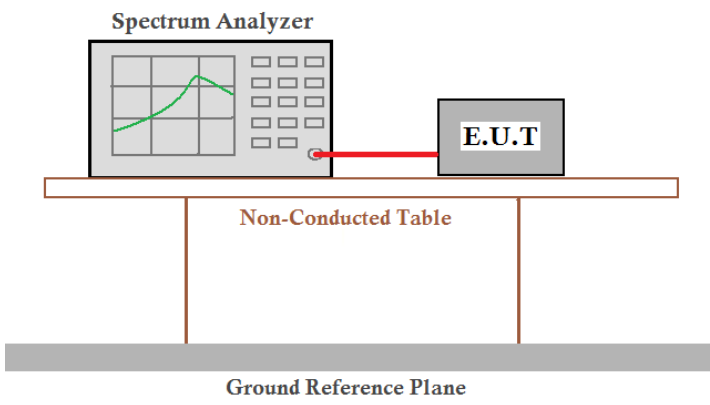


### Middle channel



### Highest channel

#### 4.6 Power Spectral Density

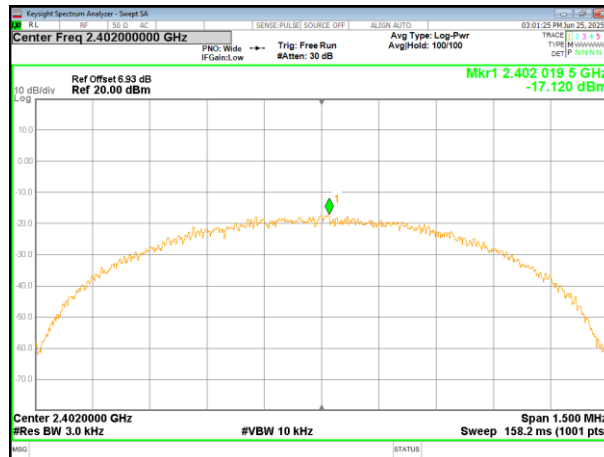
|                   |                                                                                    |               |
|-------------------|------------------------------------------------------------------------------------|---------------|
| Test Requirement: | 47CRF Part 15.247 (e)                                                              |               |
| Test Method:      | ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02                     |               |
| Limit:            | 8dBm/3kHz                                                                          |               |
| Test setup:       |  |               |
| Test Instruments: | Refer to section 3.0 for details                                                   |               |
| Test mode:        | Refer to section 2.2 for details                                                   |               |
| Test environment: | Temp.: 24.7°C                                                                      | Humid.: 60%RH |
| Test voltage:     | 20V DC                                                                             |               |
| Test results:     | Pass                                                                               |               |

#### Measurement Result

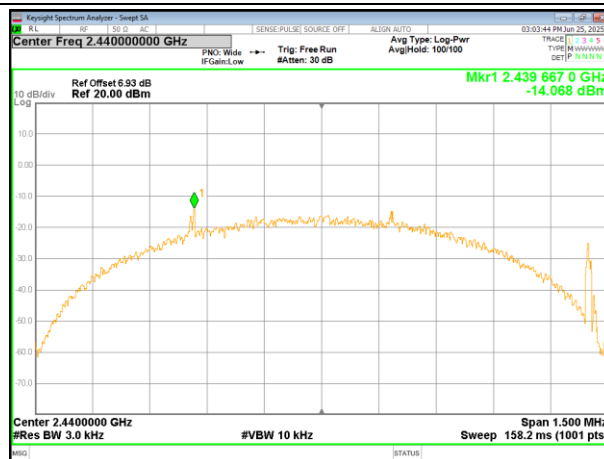
| Test channel | Power Spectral Density (dBm/3kHz) | Limit(dBm/3kHz) | Result |
|--------------|-----------------------------------|-----------------|--------|
| Lowest       | -17.120                           | 8.00            | Pass   |
| Middle       | -14.068                           |                 |        |
| Highest      | -16.941                           |                 |        |



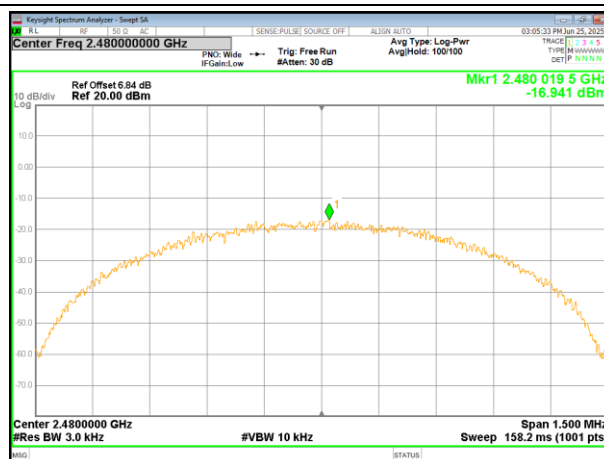
Test plot as follows:



Lowest channel



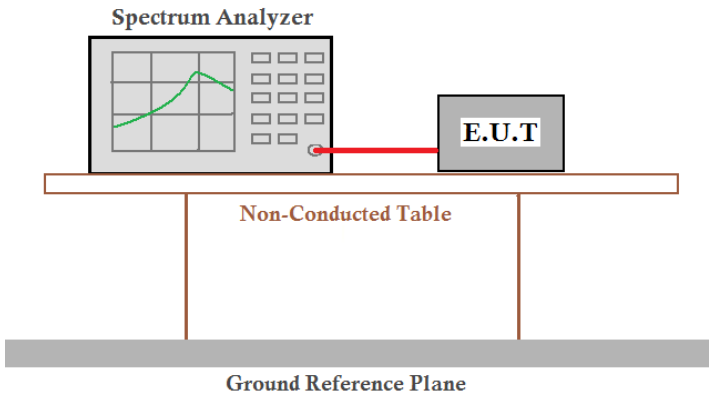
Middle channel



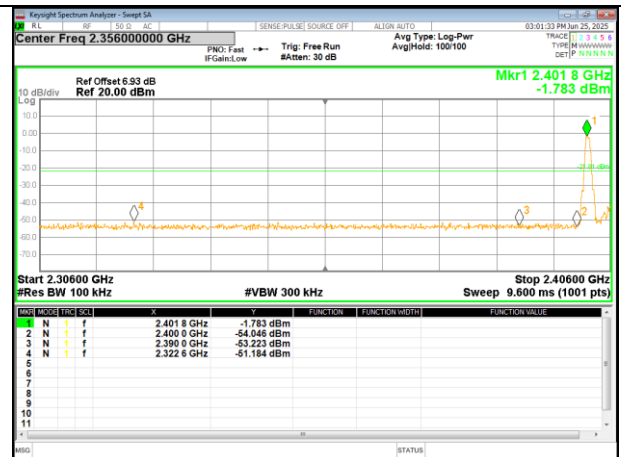
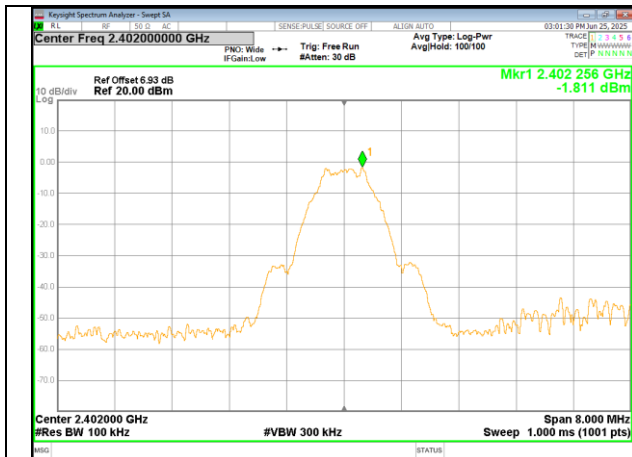
Highest channel

## 4.7 Band edges

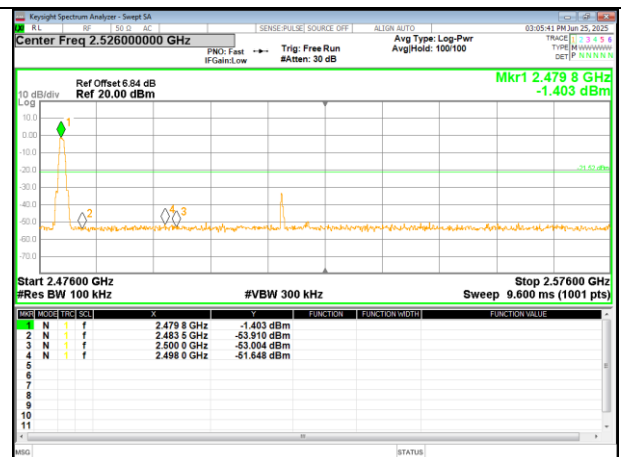
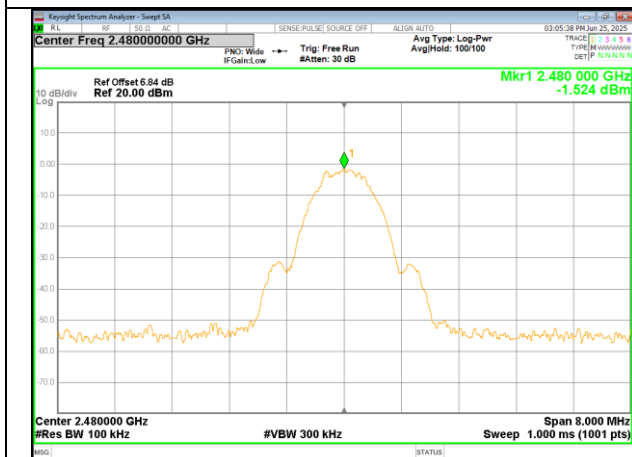
### Conducted Emission Method

|                   |                                                                                                                                                                                                                                                                                                                                                                                         |               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Test Requirement: | 47CRF Part 15.247 (d)                                                                                                                                                                                                                                                                                                                                                                   |               |
| Test Method:      | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                        |               |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |               |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p>                             |               |
| Test Instruments: | Refer to section 3.0 for details                                                                                                                                                                                                                                                                                                                                                        |               |
| Test mode:        | Refer to section 2.2 for details                                                                                                                                                                                                                                                                                                                                                        |               |
| Test environment: | Temp.: 24.7°C                                                                                                                                                                                                                                                                                                                                                                           | Humid.: 60%RH |
| Test voltage:     | 20V DC                                                                                                                                                                                                                                                                                                                                                                                  |               |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                    |               |

Test plot as follows:

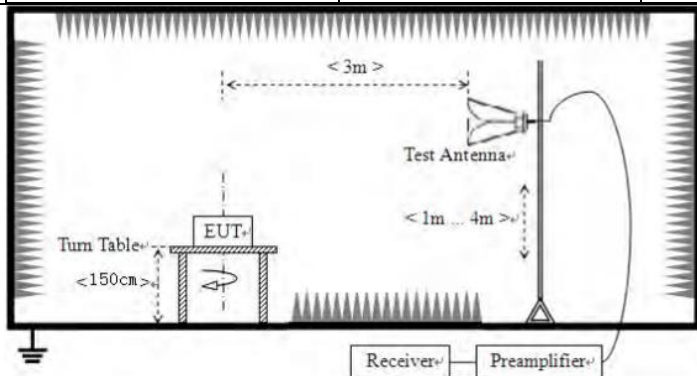


Lowest channel



Highest channel

## Radiated Emission Method

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |                    |      |         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|------|---------|
| Test Requirement:     | 47CRF Part 15.209 and 15.205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                    |      |         |
| Test Method:          | ANSI C63.10: 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                    |      |         |
| Test Frequency Range: | All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                    |      |         |
| Test site:            | Measurement Distance: 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                    |      |         |
| Receiver setup:       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Detector | RBW                | VBW  | Value   |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Peak     | 1MHz               | 3MHz | Peak    |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Average  | 1MHz               | 3MHz | Average |
| Limit:                | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          | Limit (dBuV/m @3m) |      | Value   |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          | 54.00              |      | Average |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          | 74.00              |      | Peak    |
| Test setup:           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                    |      |         |
| Test Procedure:       | <ol style="list-style-type: none"><li>1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li><li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li><li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li><li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li><li>7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.</li></ol> |          |                    |      |         |
| Test Instruments:     | Refer to section 3.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                    |      |         |
| Test mode:            | Refer to section 2.2 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                    |      |         |
| Test environment:     | Temp.: 24.7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          | Humid.: 60%RH      |      |         |
| Test voltage:         | 20V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                    |      |         |
| Test results:         | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                    |      |         |



**Measurement Result:**

|               |        |
|---------------|--------|
| Test channel: | Lowest |
|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|----------------|-----------------|--------------|
| 2310.00         | 62.04             | -13.36        | 48.68          | 74.00          | -25.32          | Horizontal   |
| 2390.00         | 67.08             | -13.03        | 54.05          | 74.00          | -19.95          | Horizontal   |
| 2310.00         | 62.73             | -13.36        | 49.37          | 74.00          | -24.63          | Vertical     |
| 2390.00         | 66.98             | -13.03        | 53.95          | 74.00          | -20.05          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2310.00         | 50.91             | -13.36        | 37.55          | 54.00               | -16.45          | Horizontal   |
| 2390.00         | 55.71             | -13.03        | 42.68          | 54.00               | -11.32          | Horizontal   |
| 2310.00         | 50.46             | -13.36        | 37.10          | 54.00               | -16.90          | Vertical     |
| 2390.00         | 55.38             | -13.03        | 42.35          | 54.00               | -11.65          | Vertical     |

|               |         |
|---------------|---------|
| Test channel: | Highest |
|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 66.90             | -12.64        | 54.26          | 74.00               | -19.74          | Horizontal   |
| 2500.00         | 63.13             | -12.57        | 50.56          | 74.00               | -23.44          | Horizontal   |
| 2483.50         | 67.20             | -12.64        | 54.56          | 74.00               | -19.44          | Vertical     |
| 2500.00         | 63.08             | -12.57        | 50.51          | 74.00               | -23.49          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 55.90             | -12.64        | 43.26          | 54.00               | -10.74          | Horizontal   |
| 2500.00         | 52.47             | -12.57        | 39.90          | 54.00               | -14.10          | Horizontal   |
| 2483.50         | 56.51             | -12.64        | 43.87          | 54.00               | -10.13          | Vertical     |
| 2500.00         | 51.46             | -12.57        | 38.89          | 54.00               | -15.11          | Vertical     |

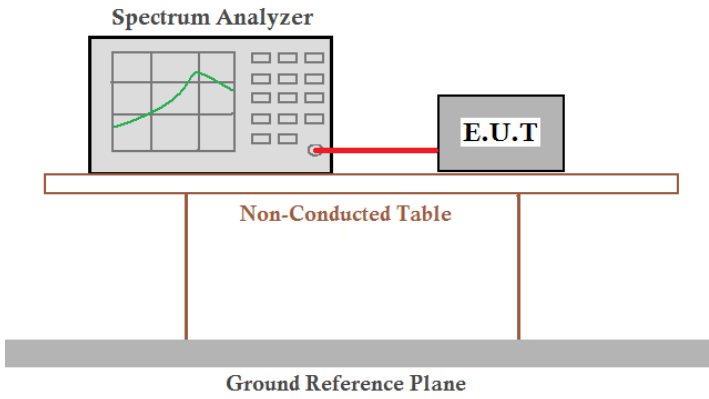
**Remarks:**

1. Level = Read level + Factor
2. Factor=Antenna Factor + Cable Loss – Preamplifier Factor
3. Emissions more than 20 dB below the limit do not need to be reported.
4. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.



## 4.8 Spurious Emission

### Conducted Emission Method

|                   |                                                                                                                                                                                                                                                                                                                                                                                         |               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Test Requirement: | 47CRF Part 15.247(d), 47CRF Part 15.209 and 15.205                                                                                                                                                                                                                                                                                                                                      |               |
| Test Method:      | ANSI C63.10-2013                                                                                                                                                                                                                                                                                                                                                                        |               |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |               |
| Test setup:       |  <p>The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>                                   |               |
| Test Instruments: | Refer to section 3.0 for details                                                                                                                                                                                                                                                                                                                                                        |               |
| Test mode:        | Refer to section 2.2 for details                                                                                                                                                                                                                                                                                                                                                        |               |
| Test environment: | Temp.: 24.7°C                                                                                                                                                                                                                                                                                                                                                                           | Humid.: 60%RH |
| Test voltage:     | 20V DC                                                                                                                                                                                                                                                                                                                                                                                  |               |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                    |               |

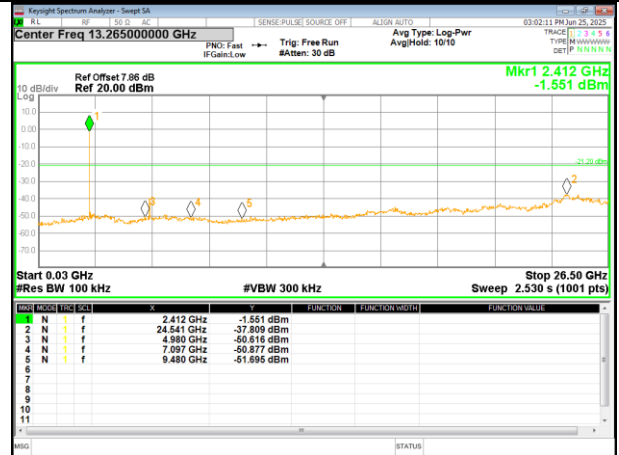
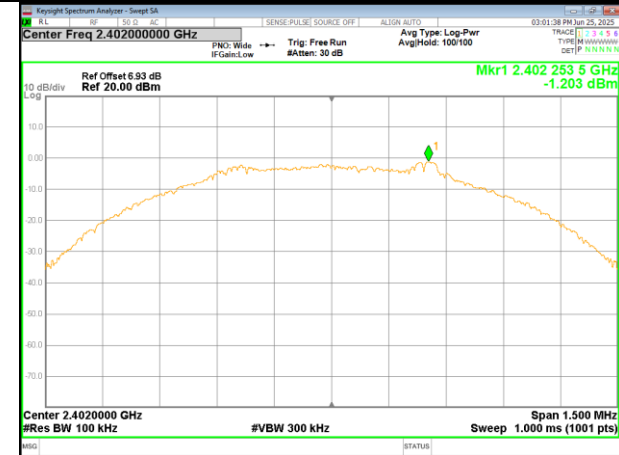
Remark:

1. Cable loss data included in Offset.



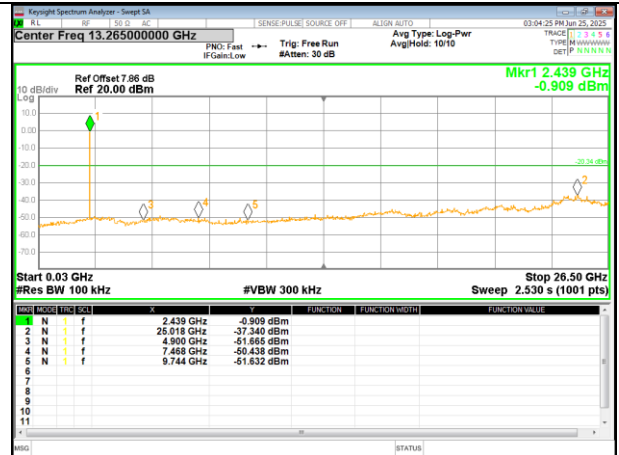
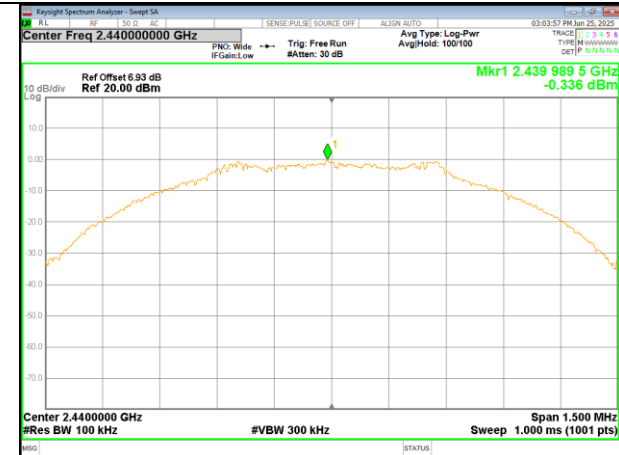
Test plot as follows:

### Lowest channel



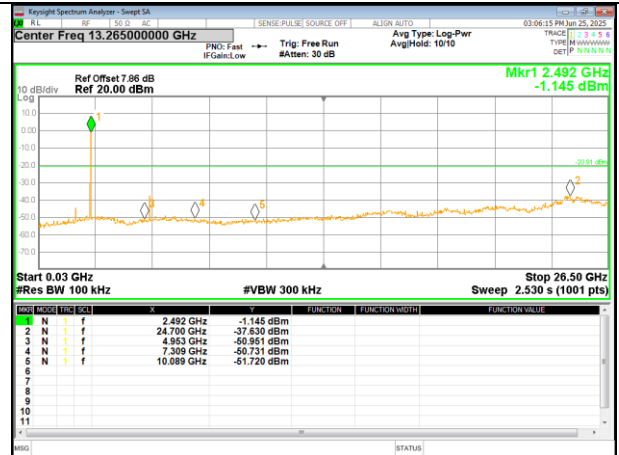
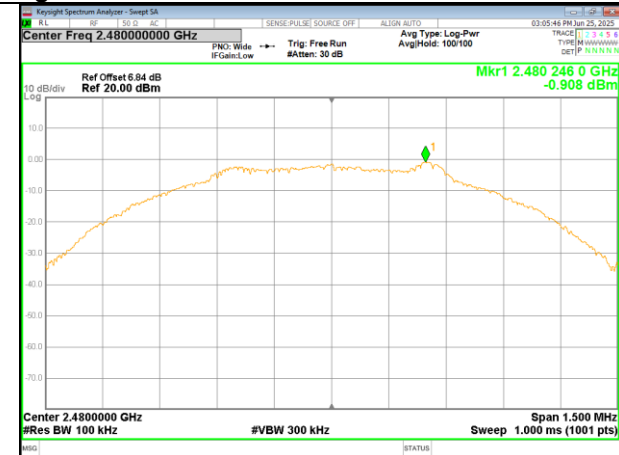
30MHz~25GHz

### Middle channel



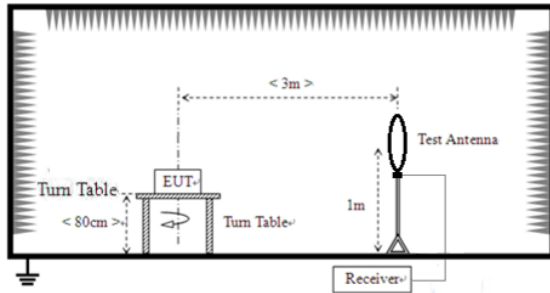
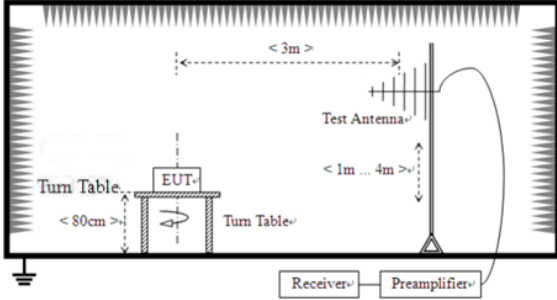
30MHz~25GHz

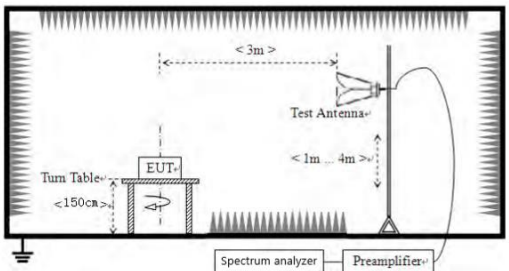
### Highest channel



30MHz~25GHz

## Radiated Emission Method

|                       |                                                                                      |              |         |                      |            |
|-----------------------|--------------------------------------------------------------------------------------|--------------|---------|----------------------|------------|
| Test Requirement:     | 47CRF part 15.247(d),47CRF Part 15.209 and 15.205                                    |              |         |                      |            |
| Test Method:          | ANSI C63.10: 2013                                                                    |              |         |                      |            |
| Test Frequency Range: | 9kHz to 25GHz                                                                        |              |         |                      |            |
| Test site:            | Measurement Distance: 3m                                                             |              |         |                      |            |
| Receiver setup:       | Frequency                                                                            | Detector     | RBW     | VBW                  | Value      |
|                       | 9KHz-150KHz                                                                          | Quasi-peak   | 200Hz   | 600Hz                | Quasi-peak |
|                       | 150KHz-30MHz                                                                         | Quasi-peak   | 9KHz    | 30KHz                | Quasi-peak |
|                       | 30MHz-1GHz                                                                           | Quasi-peak   | 120KHz  | 300KHz               | Quasi-peak |
|                       | Above 1GHz                                                                           | Peak         | 1MHz    | 3MHz                 | Peak       |
|                       |                                                                                      | Peak         | 1MHz    | 10Hz                 | Average    |
| Limit:                | Frequency                                                                            | Limit (uV/m) | Value   | Measurement Distance |            |
|                       | 0.009MHz-0.490MHz                                                                    | 2400/F(KHz)  | QP      | 300m                 |            |
|                       | 0.490MHz-1.705MHz                                                                    | 24000/F(KHz) | QP      | 300m                 |            |
|                       | 1.705MHz-30MHz                                                                       | 30           | QP      | 30m                  |            |
|                       | 30MHz-88MHz                                                                          | 100          | QP      | 3m                   |            |
|                       | 88MHz-216MHz                                                                         | 150          | QP      |                      |            |
|                       | 216MHz-960MHz                                                                        | 200          | QP      |                      |            |
|                       | 960MHz-1GHz                                                                          | 500          | QP      |                      |            |
|                       | Above 1GHz                                                                           | 500          | Average |                      |            |
|                       |                                                                                      | 5000         | Peak    |                      |            |
| Test setup:           | For radiated emissions from 9kHz to 30MHz                                            |              |         |                      |            |
|                       |  |              |         |                      |            |
|                       | For radiated emissions from 30MHz to1GHz                                             |              |         |                      |            |
|                       |  |              |         |                      |            |
|                       | For radiated emissions above 1GHz                                                    |              |         |                      |            |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>Test Procedure:</p>   | <ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol> |
| <p>Test Instruments:</p> | <p>Refer to section 3.0 for details</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>Test mode:</p>        | <p>Refer to section 2.2 for details</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>Test results:</p>     | <p>Pass</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

*Remarks:*

1. The report only shows the worst mode.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

**Measurement Result:**

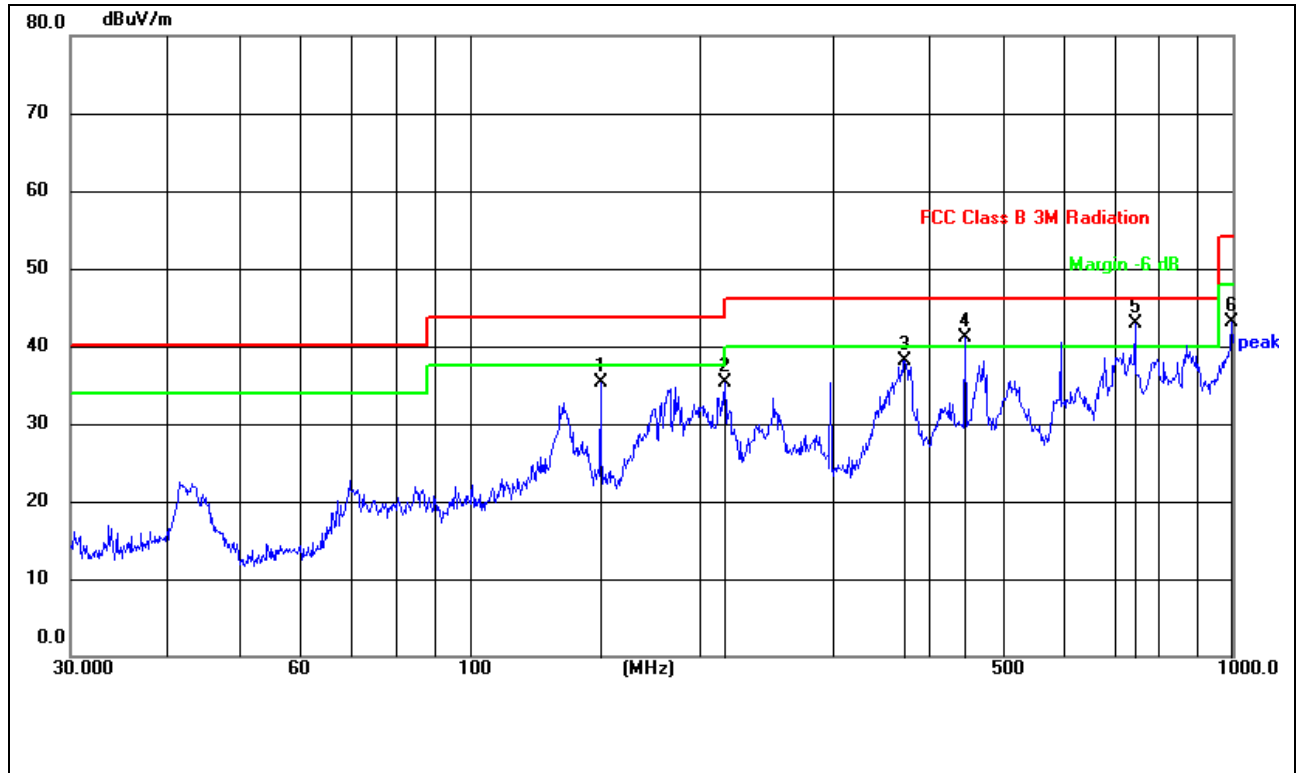
■ **9kHz~30MHz**

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 47CRF part 15.31(o), the test result no need to reported.

■ Below 1GHz

*All mode has been tested, the report only shows the worst mode (2440MHz) data.*

|                    |          |               |                                     |
|--------------------|----------|---------------|-------------------------------------|
| Test polarization: | Vertical | Test voltage: | DC20V From adapter with 120Vac/60Hz |
| Temp.:             | 24.7°C   | Humid.:       | 63%RH                               |

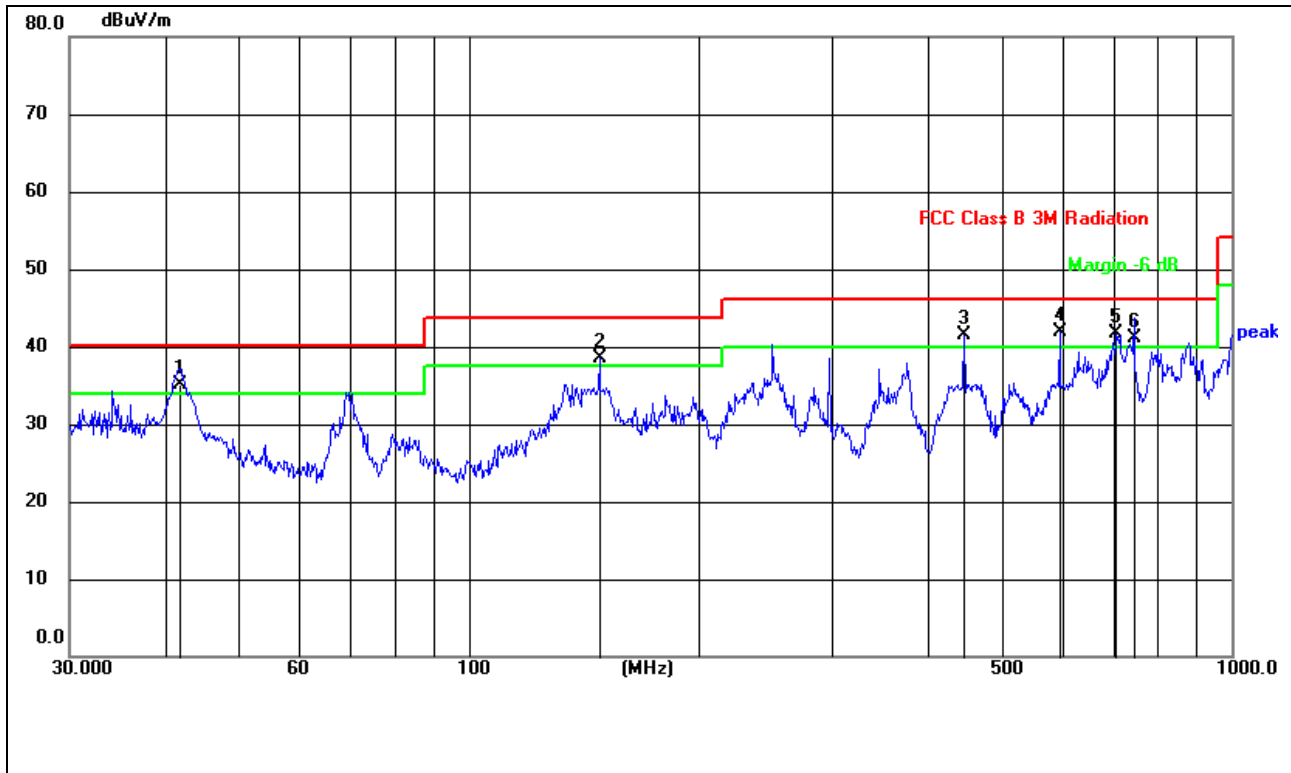


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 148.4410        | 54.09          | -18.72        | 35.37          | 43.50          | -8.13       | QP       |
| 2   | 216.0236        | 53.81          | -18.54        | 35.27          | 46.00          | -10.73      | QP       |
| 3   | 372.0045        | 55.17          | -16.99        | 38.18          | 46.00          | -7.82       | QP       |
| 4   | 446.4139        | 55.99          | -14.90        | 41.09          | 46.00          | -4.91       | QP       |
| 5   | 744.8659        | 51.25          | -8.33         | 42.92          | 46.00          | -3.08       | QP       |
| 6   | 996.4995        | 48.64          | -5.47         | 43.17          | 54.00          | -10.83      | QP       |

Factor= Antenna Factor + Cable Loss – Preamplifier Factor

Level = Reading + Factor, Margin=level-Limit

|                    |            |               |                                     |
|--------------------|------------|---------------|-------------------------------------|
| Test polarization: | Horizontal | Test voltage: | DC20V From adapter with 120Vac/60Hz |
| Temp.:             | 24.7°C     | Humid.:       | 63%RH                               |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 41.8594         | 55.91          | -20.71        | 35.20          | 40.00          | -4.80       | QP       |
| 2   | 148.4410        | 57.51          | -19.00        | 38.51          | 43.50          | -4.99       | QP       |
| 3   | 446.4139        | 56.41          | -14.91        | 41.50          | 46.00          | -4.50       | QP       |
| 4   | 595.1326        | 53.26          | -11.36        | 41.90          | 46.00          | -4.10       | QP       |
| 5   | 706.6997        | 50.58          | -8.93         | 41.65          | 46.00          | -4.35       | QP       |
| 6   | 744.8659        | 49.52          | -8.32         | 41.20          | 46.00          | -4.80       | QP       |

Remarks:

Level =Receiver Reading + Factor

Factor= Antenna Factor + Cable Factor – Preamplifier Factor



■ 1GHz-25GHz

|               |        |         |       |
|---------------|--------|---------|-------|
| Temp.:        | 24.7°C | Humid.: | 63%RH |
| Test voltage: | 20V DC |         |       |

|               |        |
|---------------|--------|
| Test channel: | Lowest |
|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|----------------|-----------------|--------------|
| 4804.00         | 53.26             | -7.69         | 45.57          | 74.00          | -28.43          | Vertical     |
| 7206.00         | 49.24             | -1.70         | 47.54          | 74.00          | -26.46          | Vertical     |
| 9608.00         | 46.62             | 1.31          | 47.93          | 74.00          | -26.07          | Vertical     |
| 12010.00        | *                 | --            | --             | 74.00          | --              | Vertical     |
| 14412.00        | *                 | --            | --             | 74.00          | --              | Vertical     |
| 4804.00         | 52.75             | -7.69         | 45.06          | 74.00          | -28.94          | Horizontal   |
| 7206.00         | 48.57             | -1.70         | 46.87          | 74.00          | -27.13          | Horizontal   |
| 9608.00         | 46.52             | 1.31          | 47.83          | 74.00          | -26.17          | Horizontal   |
| 12010.00        | *                 | --            | --             | 74.00          | --              | Horizontal   |
| 14412.00        | *                 | --            | --             | 74.00          | --              | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|----------------|-----------------|--------------|
| 4804.00         | 42.60             | -7.69         | 34.91          | 54.00          | -19.09          | Vertical     |
| 7206.00         | 38.95             | -1.70         | 37.25          | 54.00          | -16.75          | Vertical     |
| 9608.00         | 36.29             | 1.31          | 37.60          | 54.00          | -16.40          | Vertical     |
| 12010.00        | *                 | --            | --             | 54.00          | --              | Vertical     |
| 14412.00        | *                 | --            | --             | 54.00          | --              | Vertical     |
| 4804.00         | 42.80             | -7.69         | 35.11          | 54.00          | -18.89          | Horizontal   |
| 7206.00         | 38.82             | -1.70         | 37.12          | 54.00          | -16.88          | Horizontal   |
| 9608.00         | 36.02             | 1.31          | 37.33          | 54.00          | -16.67          | Horizontal   |
| 12010.00        | *                 | --            | --             | 54.00          | --              | Horizontal   |
| 14412.00        | *                 | --            | --             | 54.00          | --              | Horizontal   |

*Remarks:*

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *“\*”, means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*



|               |        |
|---------------|--------|
| Test channel: | Middle |
|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4880.00         | 52.75             | -7.56         | 45.19          | 74.00               | -28.81          | Vertical     |
| 7320.00         | 48.54             | -1.38         | 47.16          | 74.00               | -26.84          | Vertical     |
| 9760.00         | 46.37             | 1.19          | 47.56          | 74.00               | -26.44          | Vertical     |
| 12200.00        | *                 | --            | --             | 74.00               | --              | Vertical     |
| 14640.00        | *                 | --            | --             | 74.00               | --              | Vertical     |
| 4880.00         | 53.14             | -7.56         | 45.58          | 74.00               | -28.42          | Horizontal   |
| 7320.00         | 48.19             | -1.38         | 46.81          | 74.00               | -27.19          | Horizontal   |
| 9760.00         | 45.93             | 1.19          | 47.12          | 74.00               | -26.88          | Horizontal   |
| 12200.00        | *                 | --            | --             | 74.00               | --              | Horizontal   |
| 14640.00        | *                 | --            | --             | 74.00               | --              | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4880.00         | 42.66             | -7.56         | 35.10          | 54.00               | -18.90          | Vertical     |
| 7320.00         | 38.35             | -1.38         | 36.97          | 54.00               | -17.03          | Vertical     |
| 9760.00         | 35.71             | 1.19          | 36.90          | 54.00               | -17.10          | Vertical     |
| 12200.00        | *                 | --            | --             | 54.00               | --              | Vertical     |
| 14640.00        | *                 | --            | --             | 54.00               | --              | Vertical     |
| 4880.00         | 42.90             | -7.56         | 35.34          | 54.00               | -18.66          | Horizontal   |
| 7320.00         | 38.23             | -1.38         | 36.85          | 54.00               | -17.15          | Horizontal   |
| 9760.00         | 36.00             | 1.19          | 37.19          | 54.00               | -16.81          | Horizontal   |
| 12200.00        | *                 | --            | --             | 54.00               | --              | Horizontal   |
| 14640.00        | *                 | --            | --             | 54.00               | --              | Horizontal   |

**Remarks:**

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“\*”, means this data is the too weak instrument of signal is unable to test.*
3. *Emissions more than 20 dB below the limit do not need to be reported.*



|               |         |
|---------------|---------|
| Test channel: | Highest |
|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4960.00         | 52.85             | -7.43         | 45.42          | 74.00               | -28.58          | Vertical     |
| 7440.00         | 48.16             | -1.02         | 47.14          | 74.00               | -26.86          | Vertical     |
| 9920.00         | 45.85             | 1.08          | 46.93          | 74.00               | -27.07          | Vertical     |
| 12400.00        | *                 | --            | --             | 74.00               | --              | Vertical     |
| 14880.00        | *                 | --            | --             | 74.00               | --              | Vertical     |
| 4960.00         | 53.27             | -7.43         | 45.84          | 74.00               | -28.16          | Horizontal   |
| 7440.00         | 48.36             | -1.02         | 47.34          | 74.00               | -26.66          | Horizontal   |
| 9920.00         | 45.96             | 1.08          | 47.04          | 74.00               | -26.96          | Horizontal   |
| 12400.00        | *                 | --            | --             | 74.00               | --              | Horizontal   |
| 14880.00        | *                 | --            | --             | 74.00               | --              | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4960.00         | 42.38             | -7.43         | 34.95          | 54.00               | -19.05          | Vertical     |
| 7440.00         | 38.31             | -1.02         | 37.29          | 54.00               | -16.71          | Vertical     |
| 9920.00         | 36.16             | 1.08          | 37.24          | 54.00               | -16.76          | Vertical     |
| 12400.00        | *                 | --            | --             | 54.00               | --              | Vertical     |
| 14880.00        | *                 | --            | --             | 54.00               | --              | Vertical     |
| 4960.00         | 42.78             | -7.43         | 35.35          | 54.00               | -18.65          | Horizontal   |
| 7440.00         | 38.12             | -1.02         | 37.10          | 54.00               | -16.90          | Horizontal   |
| 9920.00         | 36.65             | 1.08          | 37.73          | 54.00               | -16.27          | Horizontal   |
| 12400.00        | *                 | --            | --             | 54.00               | --              | Horizontal   |
| 14880.00        | *                 | --            | --             | 54.00               | --              | Horizontal   |

**Remarks:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. Emissions more than 20 dB below the limit do not need to be reported.



## **5. Test Setup Photo**

Reference to the file No.: ET-25061752SP for details.

## **6. EUT Constructional Details**

Reference to the file No.: ET-25061752EP and ET-25061752IP for details.

-----End-----