# FCC Test Report

| | |
|---|---|
| Product Name | USRR05MA |
| Model No. | PX-USR-05MA |
| FCC ID | HTO-USRR05MA-1 |

| | |
|---|---|
| Applicant | Universal Microelectronics Co Ltd |
| Address | 3, 27th Rd., Taichung Industrial Park, Taichung, Taiwan, R.O.C. |

| | |
|---|---|
| Date of Receipt | Jul. 06, 2021 |
| Issued Date | Mar. 30, 2022 |
| Report No. | 2170201R-RFUSOTHV06-A |
| Report Version | V1.0 |

Testing Laboratory
3023

The test results relate only to the samples tested.
The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
This report must not be used to claim product endorsement by TAF or any agency of the government.
The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

# Test Report

Issued Date: Mar. 30, 2022
Report No.: 2170201R-RFUSOTHV06-A

| | |
|---|---|
| Product Name | USRR05MA |
| Applicant | Universal Microelectronics Co Ltd |
| Address | 3, 27th Rd., Taichung Industrial Park, Taichung, Taiwan, R.O.C. |
| Manufacturer | Universal Microelectronics Co Ltd |
| Model No. | PX-USR-05MA |
| FCC ID | HTO-USRR05MA-1 |
| EUT Rated Voltage | DC 3.3V |
| EUT Test Voltage | DC 3.3V (Power By Test Fixture) |
| Trade Name | UMEC |
| Applicable Standard | FCC CFR Title 47 Part 15 Subpart C<br>ANSI C63.4: 2014, ANSI C63.10: 2013 |
| Test Result | Complied |

Documented By : Jinn Chen

( Supervisor / Jinn Chen )

Tested By : Nova chu

( Senior Engineer / Nova Chu )

Approved By : Alan Chen

( Senior Engineer / Alan Chen )

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Appendix 1: EUT Test Photographs

Appendix 2: Product Photos: Please refer to the file: 2170201R-Product Photos

# Revision History

| Report No. | Version | Description | Issued Date |
|---|---|---|---|
| 2170201R-RFUSOTHV06-A | V1.0 | Initial issue of report. | Mar. 30, 2022 |

# 1. GENERAL INFORMATION

## 1.1. EUT Description

| | |
|---|---|
| Product Name | USRR05MA |
| Trade Name | UMEC |
| Model No. | PX-USR-05MA |
| FCC ID | HTO-USRR05MA-1 |
| Frequency Range | 24.162 ~ 24.238GHz |
| Channel Number | 3 |
| Type of Modulation | FMCW |
| Antenna Type | Patch Antenna |
| Antenna Gain | Refer to the table “Antenna List” |
| Channel Control | Auto |

**Antenna List**

| No. | Manufacturer | Part No. | Antenna Type | Peak Gain |
|---|---|---|---|---|
| 1 | Universal Microelectronic | PX-USR-05MA | Patch Antenna | 10.10 dBi for 24GHz |

Note: The antenna of EUT is conform to FCC 15.203

**Center Frequency of Each Channel:**

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---|---|---|---|---|---|
| Channel 01: | 24.162 GHz | Channel 02: | 24.200 GHz | Channel 03: | 24.238 GHz |

Note:

1. The EUT is an USRR05MA with a built-in 2.4GHz wireless transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. These tests are conducted on a sample of the equipment for the purpose of demonstrating compliance of transmitter with Part 15 Subpart C Paragraph 15.249 for spread spectrum devices.
4. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

| | |
|---|---|
| Test Mode | Mode 1: Transmit<br>Mode 2: Normal mode |

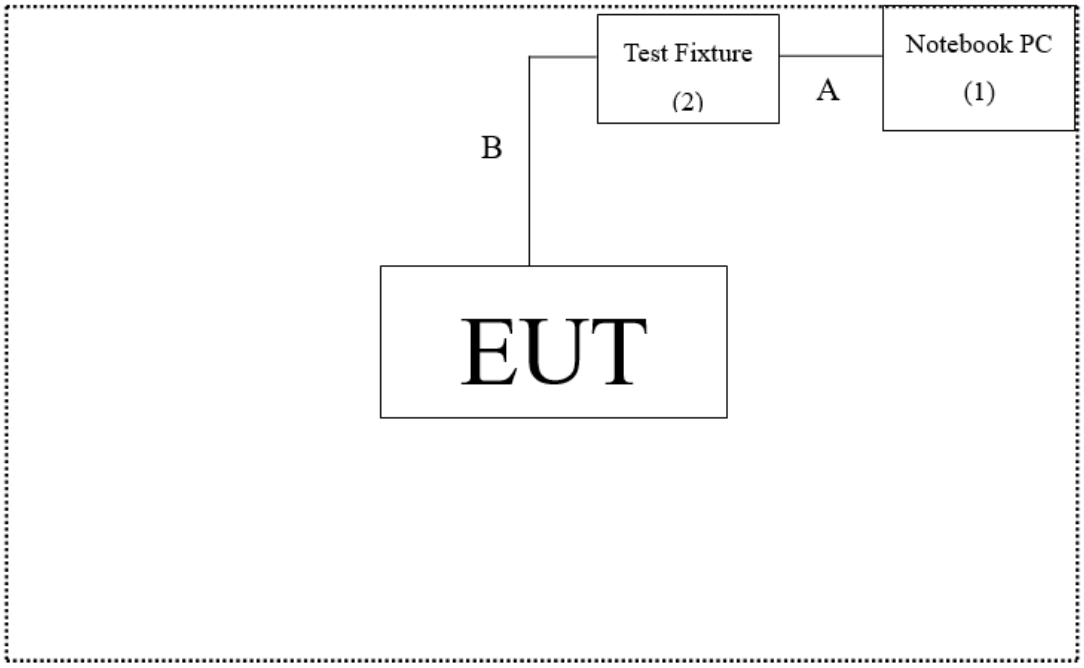
## 1.2. Tested System Datails

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product | | Manufacturer | Model No. | Serial No. | Power Cord |
|---|---|---|---|---|---|
| 1 | Notebook PC | DELL | Latitude 5580 | 2HRD7H2 | N/A |
| 2 | Test Fixture | umec | Umec-01 | N/A | N/A |

| Signal Cable Type | | Signal cable Description |
|---|---|---|
| A | USB Cable | Non-shielded, 3m |
| B | Signal Cable | Non-shielded, 0.4m |

## 1.3. Configuration of Test System




## 1.4. EUT Exercise Software

(1) Setup the EUT as shown in Section 1.3.

(2) Execute “USRR-Setting V2.0.2” program on the Notebook PC.

(3) Configure the test mode and the test channel

(4) Start the continuous transmit.

(5) Verify that the EUT works properly.

## 1.5. Test Facility

Ambient conditions in the laboratory:

| Performed Item | Items | Required | Actual |
|---|---|---|---|
| Radiated Emission | Temperature (°C) | 10~40 °C | 19.5°C |
| | Humidity (%RH) | 10~90 % | 85% |

**USA : FCC Registration Number: TW0033**

**Canada : IC Registration Number: 26930**

Site Description : Accredited by TAF
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd
Address : No. 5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan
Performed Location : No. 26, Huaya 1st Rd., Guishan Dist.,Taoyuan City 333411, Taiwan, R.O.C.
Phone number : +886-3-275-7255
Fax number : +866-3-327-8031
Email address : info.tw@dekra.com
Website : http://www.dekra.com.tw

## 1.6. List of Test Equipment

**For Conduction measurements /ASR1**

| | Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Due. Date |
|---|---|---|---|---|---|---|
| X | EMI Test Receiver | R&S | ESR7 | 101601 | 2021/06/19 | 2022/06/18 |
| X | Two-Line V-Network | R&S | ENV216 | 101306 | 2021/04/08 | 2022/04/07 |
| X | Two-Line V-Network | R&S | ENV216 | 101307 | 2021/05/04 | 2022/05/03 |
| X | Coaxial Cable | SUHNER | RG400_BNC | RF001 | 2021/05/24 | 2022/05/23 |

Note:
1. All equipments are calibrated every one year.
2. The test instruments marked with “X” are used to measure the final test results.
3. Test Software version : AUDIX e3 V9.

**Test Site number: 966-2**

| | Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Due. Date |
|---|---|---|---|---|---|---|
| X | Signal Analyzer | R&S | FSV3044 | 101115 | 2022/01/10 | 2023/01/09 |
| X | Spectrum Analyzer | Keysight | N9030B | MY56320509 | 2021/08/06 | 2022/08/05 |
| X | Horn Antenna | VDI | RCH015 (50-75GHz) | N/A | 2020/11/02 | 2023/11/01 |
| X | Horn Antenna | VDI | RCH010(75-110GHz) | N/A | 2020/11/02 | 2023/11/01 |
| X | Horn Antenna | VDI | RCH06(110-170GHz) | N/A | 2020/11/02 | 2023/11/01 |
| X | Horn Antenna | VDI | RCH08(90-140GHz) | N/A | 2020/11/02 | 2023/11/01 |
| X | Horn Antenna | VDI | RCH05(140-220GHz) | N/A | 2020/11/02 | 2023/11/01 |
| | Horn Antenna | VDI | RCH03(220-325GHz) | N/A | 2020/11/02 | 2023/11/01 |
| X | Down Convertor(SAX093) | VDI | N9029AV15(AT0-55847) | US54250106 | 2020/11/02 | 2023/11/01 |
| X | Down Convertor(SAX092) | VDI | N9029AV10(AT0-74929) | US53250010 | 2020/11/02 | 2023/11/01 |
| X | Down Convertor(SAX091) | VDI | N9029AV08(AT0-59571) | US53250004 | 2020/11/02 | 2023/11/01 |
| X | Down Convertor(SAX090) | VDI | N9029AV05(AT0-60029) | US53250004 | 2020/11/02 | 2023/11/01 |
| | Down Convertor(SAX214) | VDI | N9029AV03(AT0-57775) | US53250006 | 2020.11/02 | 2023/11/01 |
| X | Loop Antenna | AMETEK | HLA6121 | 56736 | 2021/04.14 | 2022/04/13 |
| X | Bi-Log Antenna | SCHWARZBECK | VULB9168 | 9168-953 | 2021/01.29 | 2022/01/28 |
| X | Horn Antenna | ETS-Lindgren | 3117 | 00203799 | 2021/12/27 | 2022/12/26 |
| X | Horn Antenna | Com-Power | AH-840 | 101087 | 2021/06.16 | 2022/06/15 |
| X | Pre-Amplifier | EMCI | EMC001330 | 980302 | 2021/07.06 | 2022/07/05 |
| X | Pre-Amplifier | EMCI | EMC051835SE | 980632 | 2021/09/07 | 2022/09/06 |
| X | Pre-Amplifier | EMCI | EMC05820SE | 980285 | 2021/07/02 | 2022/07/01 |
| X | Pre-Amplifier | EMCI | EMC184045SE | 980369 | 2021/04/27 | 2022/04/26 |
| X | Pre-Amplifier | EMCI | EMC102-KM-KM-600 | 1160314 | | |
| X | Coaxial Cable | EMCI | EMC102-KM-KM-7000 | 170242 | | |
| X | EMI Test Receiver | R&S | ESR | 102792 | 2020/12/15 | 2021/12/14 |
| X | Coaxial Cable | SGH | HA800 | GD20110223-2 | 2021/03/03 | 2022/03/02 |
| | | SGH | HA800 | GD20110222-4 | | |
| | | SGH | SGH18 | 2021001-17 | | |
| | | SGH | SGH18 | 2021001-4 | | |
| X | Fixed Attenuator | VDI | WR15ATT2R1 | 1-10 | 2019/09/03 | 2022/09/02 |
| X | Direct reading Attenuator | Elmika | DA-02E | 804E90-01 | 2019/09/03 | 2022/09/02 |
| X | Direct reading Attenuator | Elmika | DA-02E | 803E90-21 | 2019/09/03 | 2022/09/02 |
| X | Direct reading Attenuator | Elmika | DA-02E | 802E90-31 | 2019/09/03 | 2022/09/02 |

Note:
1. Loop Antenna is calibrated every two years, the other equipments are calibrated every one year.
2. The test instruments marked with “X” are used to measure the final test results.
3. Test Software version: AUDIX e3 V9.

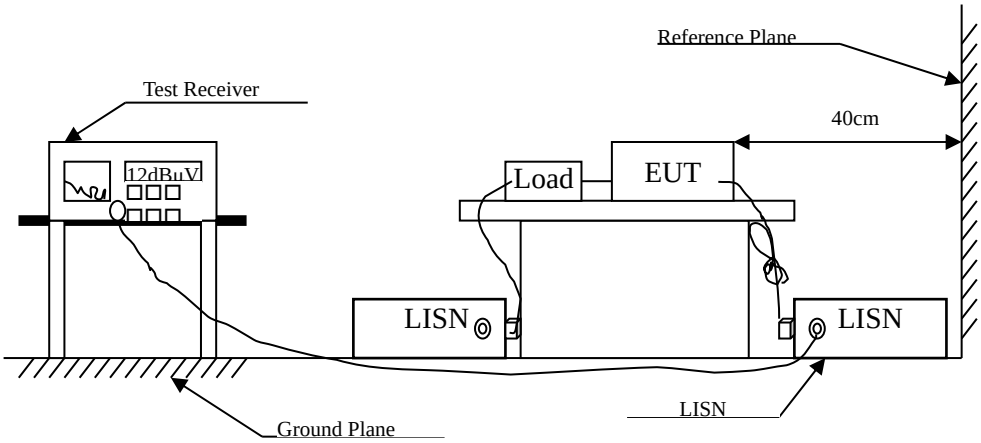
## 1.7. Uncertainty

Uncertainties have been calculated according to the DEKRA internal document.
The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.
Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

| **Test item** | **Uncertainty** | |
|---|---|---|
| Conducted Emission | ±3.42 dB | |
| Radiated Emission | Under 1GHz<br>±4.06 dB | Above 1GHz<br>±3.73 dB |
| Band Edge | Under 1GHz<br>±4.06 dB | Above 1GHz<br>±3.73 dB |
| Duty Cycle | ±2.31 ms | |

# 2. Conducted Emission

## 2.1. Test Setup




## 2.2. Limits

| FCC Part 15 Subpart C Paragraph 15.207 (dBµV ) Limit | | |
|---|---|---|
| Frequency MHz | Limits | |
| | QP | AV |
| 0.15 - 0.50 | 66-56 | 56-46 |
| 0.50-5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

Remarks: In the above table, the tighter limit applies at the band edges.

## 2.3. Test Procedure

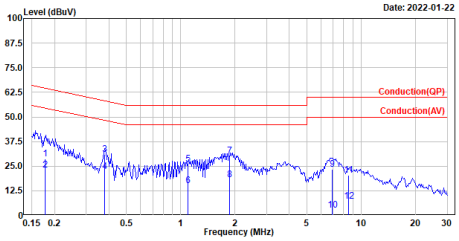
The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

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 C63.4: 2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

## 2.4. Test Result of Conducted Emission

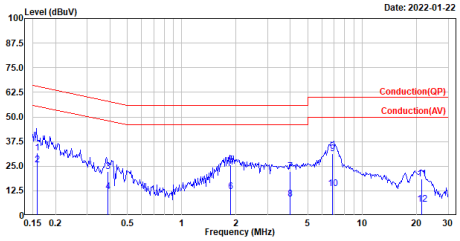
Site :SH1
Condition :Line
Mode :24.2G_TX
test by :Michael




| No. | Frequency MHz | Level dBuV/m | Limit Line dBuV/m | Over Limit dB | Read Level dBuV | Factor dB | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 0.177 | 28.51 | 64.61 | -36.10 | 18.86 | 9.65 | QP |
| 2 | 0.177 | 22.85 | 54.61 | -31.76 | 13.20 | 9.65 | Average |
| 3 | 0.379 | 30.94 | 58.30 | -27.36 | 21.28 | 9.66 | QP |
| 4 | 0.379 | 22.44 | 48.30 | -25.86 | 12.78 | 9.66 | Average |
| 5 | 1.102 | 26.17 | 56.00 | -29.83 | 16.48 | 9.69 | QP |
| 6 | 1.102 | 15.24 | 46.00 | -30.76 | 5.55 | 9.69 | Average |
| 7 | 1.868 | 30.13 | 56.00 | -25.87 | 20.41 | 9.72 | QP |
| 8 | 1.868 | 17.97 | 46.00 | -28.03 | 8.25 | 9.72 | Average |
| 9 | 6.883 | 23.50 | 60.00 | -36.50 | 13.66 | 9.84 | QP |
| 10 | 6.883 | 2.62 | 50.00 | -47.38 | -7.22 | 9.84 | Average |
| 11 | 8.480 | 20.25 | 60.00 | -39.75 | 10.39 | 9.86 | QP |
| 12 | 8.480 | 7.26 | 50.00 | -42.74 | -2.60 | 9.86 | Average |

Note:
1. Level = Read Level + Factor
2. Factor = LISN insertion loss + Cable loss
3. Over Limit = Level - Limit Line

Site :SH1
Condition :Neutral
Mode :24.2G_TX
test by :Michael



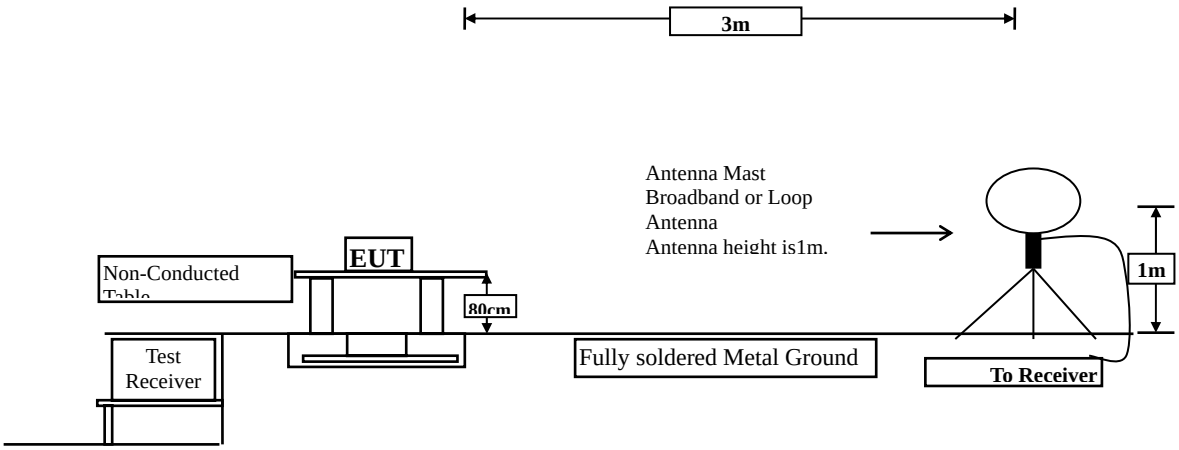

| No. | Frequency MHz | Level dBuV/m | Limit Line dBuV/m | Over Limit dB | Read Level dBuV | Factor dB | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 0.158 | 31.55 | 65.57 | -34.02 | 21.88 | 9.67 | QP |
| 2 | 0.158 | 25.82 | 55.57 | -29.75 | 16.15 | 9.67 | Average |
| 3 | 0.389 | 22.24 | 58.09 | -35.85 | 12.57 | 9.67 | QP |
| 4 | 0.389 | 11.94 | 48.09 | -36.15 | 2.27 | 9.67 | Average |
| 5 | 1.869 | 25.79 | 56.00 | -30.21 | 16.06 | 9.73 | QP |
| 6 | 1.869 | 12.16 | 46.00 | -33.84 | 2.43 | 9.73 | Average |
| 7 | 4.004 | 22.43 | 56.00 | -33.57 | 12.65 | 9.78 | QP |
| 8 | 4.004 | 8.31 | 46.00 | -37.69 | -1.47 | 9.78 | Average |
| 9 | 6.865 | 31.25 | 60.00 | -28.75 | 21.39 | 9.86 | QP |
| 10 | 6.865 | 13.72 | 50.00 | -36.28 | 3.86 | 9.86 | Average |
| 11 | 21.291 | 18.32 | 60.00 | -41.68 | 8.26 | 10.06 | QP |
| 12 | 21.291 | 5.83 | 50.00 | -44.17 | -4.23 | 10.06 | Average |

Note:
1. Level = Read Level + Factor
2. Factor = LISN insertion loss + Cable loss
3. Over Limit = Level - Limit Line

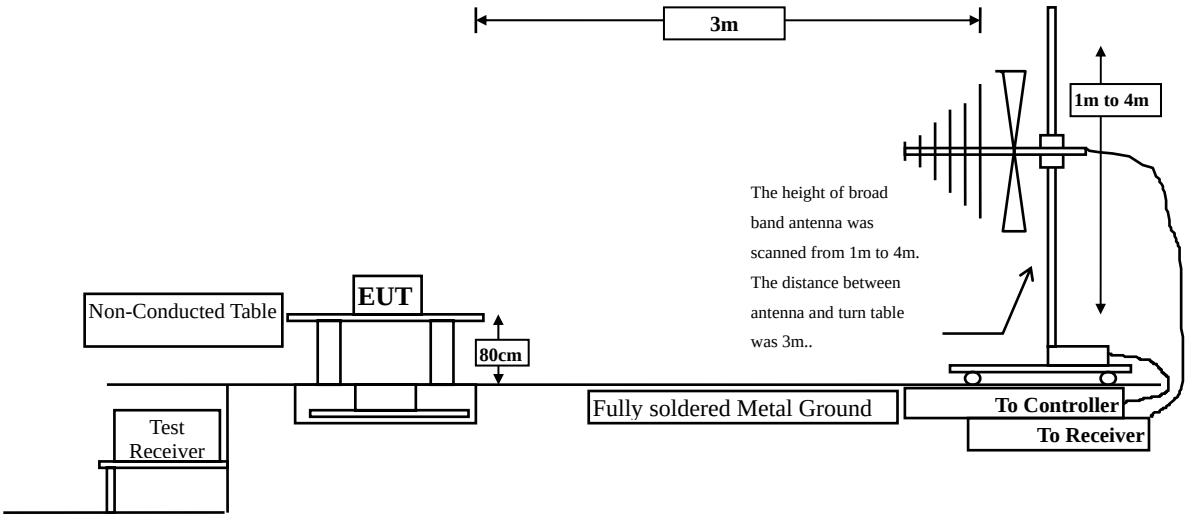
# 3. Radiated Emission

## 3.1. Test Setup

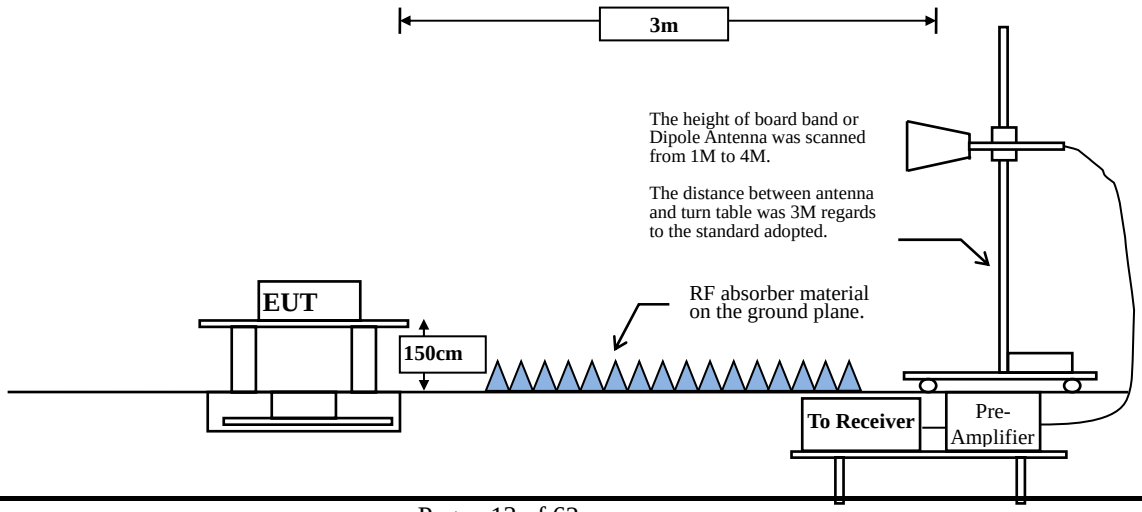
Radiated Emission Under 30MHz




Radiated Emission Below 1GHz




Radiated Emission Above 1GHz



## 3.2. Limits

➢ **Fundamental and Harmonics Emission Limits**

| FCC Part 15 Subpart C Paragraph 15.249 Limits | | | | |
|---|---|---|---|---|
| Frequency MHz | Field Strength of Fundamental | | Field Strength of Harmonics | |
| | (mV/m @3m) | (dBμV /m @3m) | (uV/m @3m) | (dBμV /m @3m) |
| 902-928 | 50 | 94 | 500 | 54 |
| 2400-2483.5 | 50 | 94 | 500 | 54 |
| 5725-5875 | 50 | 94 | 500 | 54 |
| 24000-24250 | 250 | 108 | 2500 | 68 |

Remarks : 1. RF Voltage (dBμV /m) = 20 log RF Voltage (uV/m)

2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

➢ **General Radiated Emission Limits**

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| FCC Part 15 Subpart C Paragraph 15.209(a) Limits | | |
|---|---|---|
| Frequency MHz | Field strength (microvolts/meter) | Measurement distance (meter) |
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remarks: E field strength (dBμV /m) = 20 log E field strength (uV/m)

## 3.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested compliance to FCC 47CFR 15.249 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground,when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level.

This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

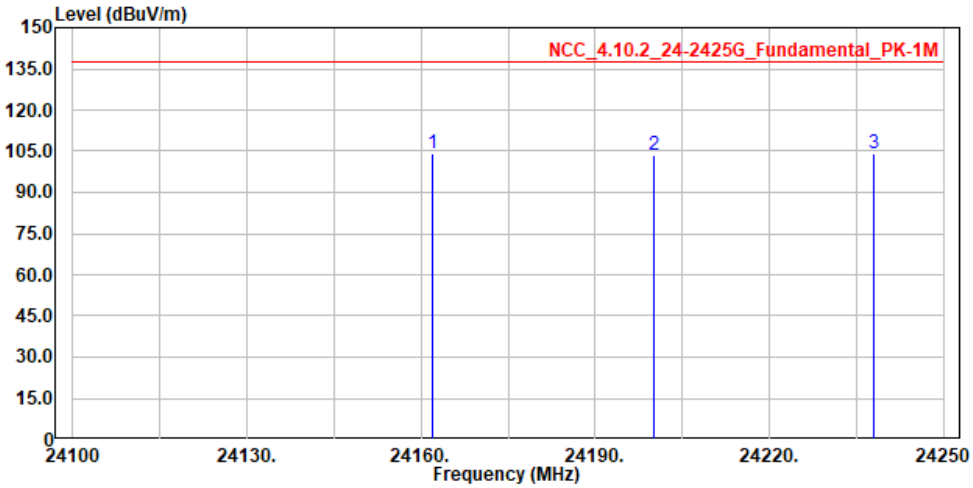
The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The measurement frequency range form 9kHz - 10th Harmonic of fundamental was investigated.

## 3.4. Test Result of Radiated Emission

```
Site      :966-2
Condition :Horizontal
Mode      :RF-TX X axis
TEST BY   :Nova Chu
```




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 24162.000 | 104.00 | 137.49 | -33.49 | 52.58 | 51.42 | Peak |
| 2 | 24200.000 | 103.59 | 137.49 | -33.90 | 52.08 | 51.51 | Peak |
| 3 | 24238.000 | 103.93 | 137.49 | -33.56 | 52.31 | 51.62 | Peak |

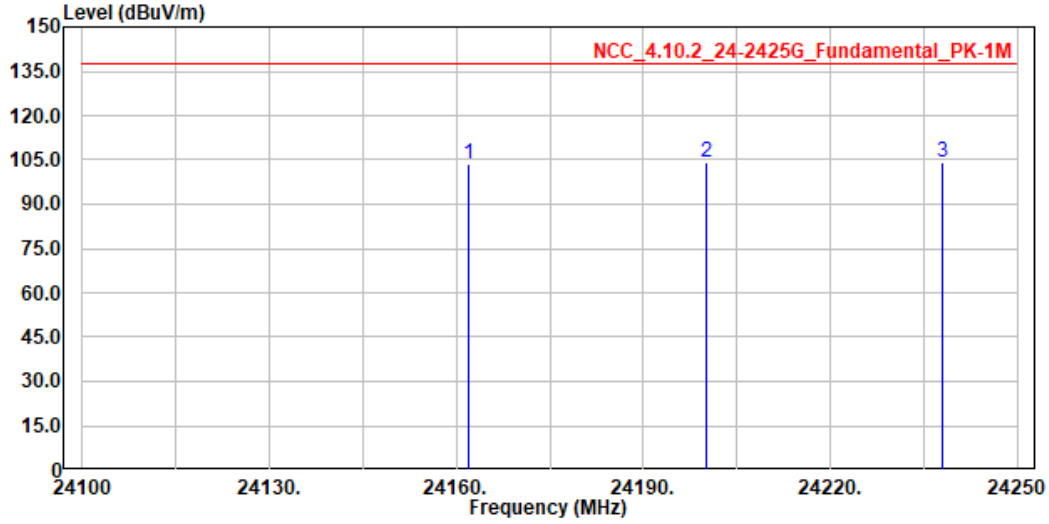
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency (MHz) | Peak Measurement (dBμV/m) | Duty Cycle Factor (dB) | Average Measurement (dBμV/m) | Margin (dB) | Average Limit (dBμV/m) |
|---|---|---|---|---|---|
| 24162 | 104 | -33.979 | 70.021 | -47.469 | 117.490 |
| 24200 | 103.59 | -33.979 | 69.611 | -47.879 | 117.490 |
| 24238 | 103.93 | -33.979 | 69.951 | -47.539 | 117.490 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

```
Site      :966-2
Condition :Vertical
Mode      :RF-TX X axis
TEST BY   :Nova Chu
```




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 24162.000 | 103.52 | 137.49 | -33.97 | 52.10 | 51.42 | Peak |
| 2 | 24200.000 | 104.10 | 137.49 | -33.39 | 52.59 | 51.51 | Peak |
| 3 | 24238.000 | 103.93 | 137.49 | -33.56 | 52.31 | 51.62 | Peak |

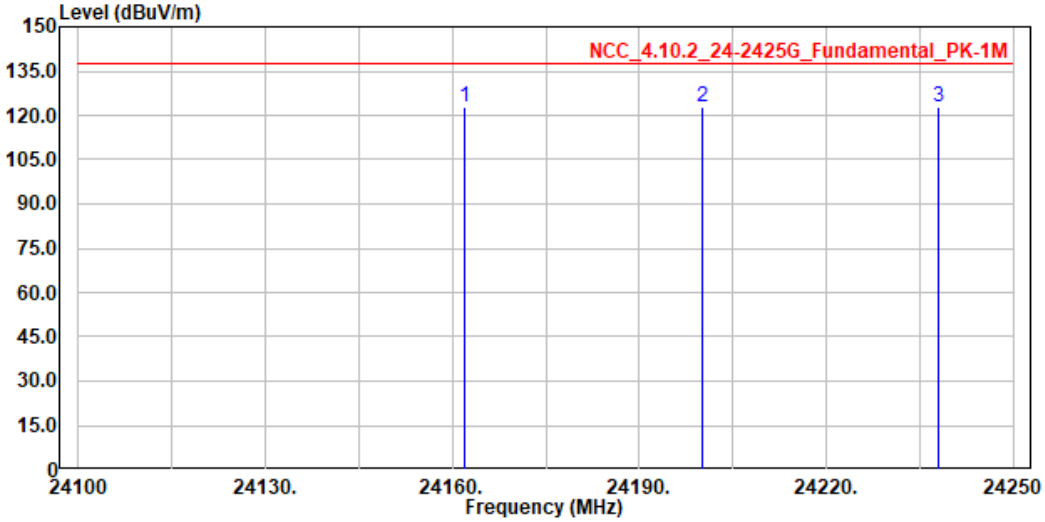
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency (MHz) | Peak Measurement (dBμV/m) | Duty Cycle Factor (dB) | Average Measurement (dBμV/m) | Margin (dB) | Average Limit (dBμV/m) |
|---|---|---|---|---|---|
| 2365.3 | 103.52 | -33.979 | 69.541 | -47.949 | 117.490 |
| 2390 | 104.1 | -33.979 | 70.121 | -47.369 | 117.490 |
| 2400 | 103.93 | -33.979 | 69.951 | -47.539 | 117.490 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

```
Site      :966-2
Condition :Horizontal
Mode      :RF-TX Y axis
TEST BY   :Nova Chu
```




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 24162.000 | 122.98 | 137.49 | -14.51 | 71.56 | 51.42 | Peak |
| 2 | 24200.000 | 122.93 | 137.49 | -14.56 | 71.42 | 51.51 | Peak |
| 3 | 24238.000 | 122.90 | 137.49 | -14.59 | 71.28 | 51.62 | Peak |

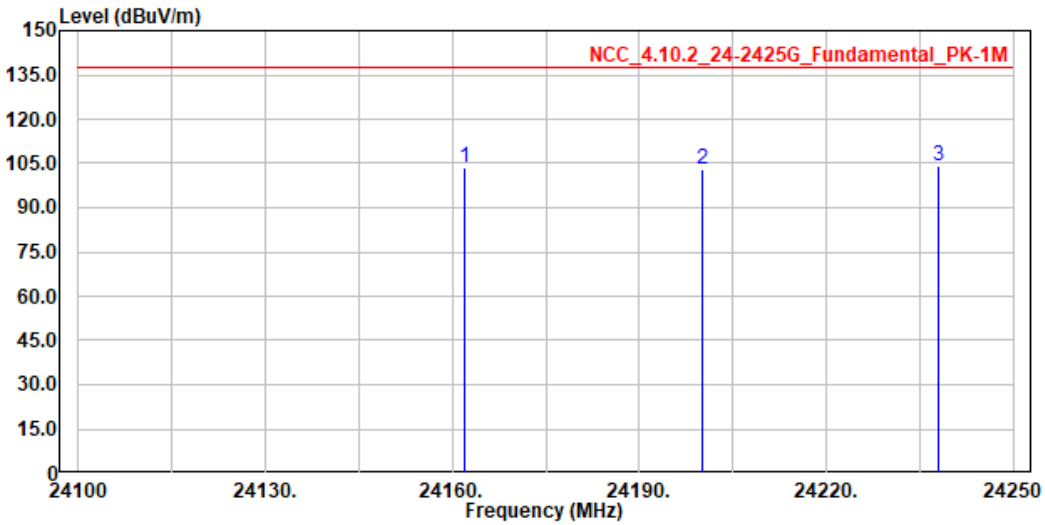
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency (MHz) | Peak Measurement (dBμV/m) | Duty Cycle Factor (dB) | Average Measurement (dBμV/m) | Margin (dB) | Average Limit (dBμV/m) |
|---|---|---|---|---|---|
| 24162 | 122.98 | -33.979 | 89.001 | -28.489 | 117.490 |
| 24200 | 122.93 | -33.979 | 88.951 | -28.539 | 117.490 |
| 24238 | 122.9 | -33.979 | 88.921 | -28.569 | 117.490 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

```
Site      :966-2
Condition :Vertical
Mode      :RF-TX Y axis
TEST BY   :Nova Chu
```




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 24162.000 | 103.32 | 137.49 | -34.17 | 51.90 | 51.42 | Peak |
| 2 | 24200.000 | 103.11 | 137.49 | -34.38 | 51.60 | 51.51 | Peak |
| 3 | 24238.000 | 103.93 | 137.49 | -33.56 | 52.31 | 51.62 | Peak |

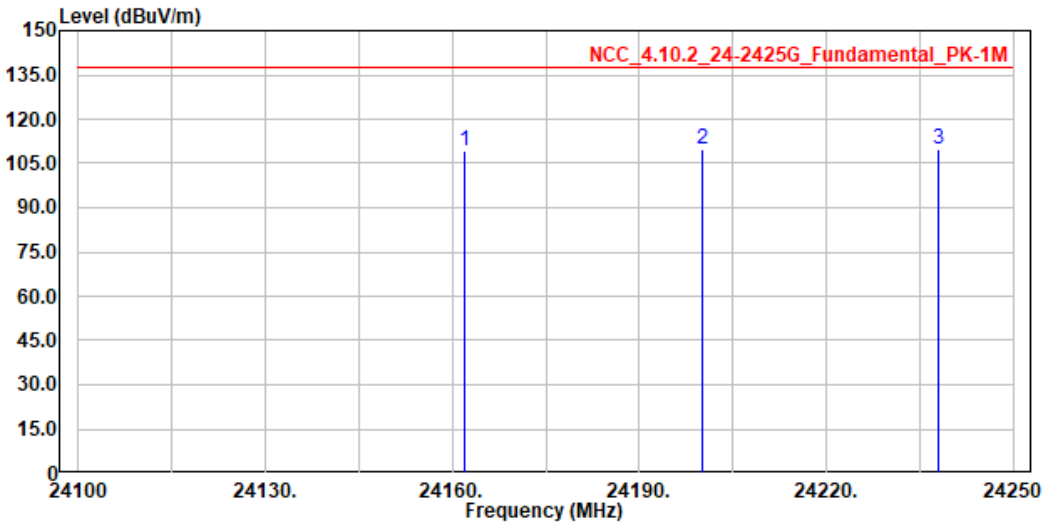
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency (MHz) | Peak Measurement (dBμV/m) | Duty Cycle Factor (dB) | Average Measurement (dBμV/m) | Margin (dB) | Average Limit (dBμV/m) |
|---|---|---|---|---|---|
| 24162 | 103.32 | -33.979 | 69.341 | -48.149 | 117.490 |
| 24200 | 103.11 | -33.979 | 69.131 | -48.359 | 117.490 |
| 24238 | 103.93 | -33.979 | 69.951 | -47.539 | 117.490 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

```
Site      :966-2
Condition :Horizontal
Mode      :RF-TX Z axis
TEST BY   :Nova Chu
```




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 24162.000 | 109.36 | 137.49 | -28.13 | 57.94 | 51.42 | Peak |
| 2 | 24200.000 | 109.57 | 137.49 | -27.92 | 58.06 | 51.51 | Peak |
| 3 | 24238.000 | 109.82 | 137.49 | -27.67 | 58.20 | 51.62 | Peak |

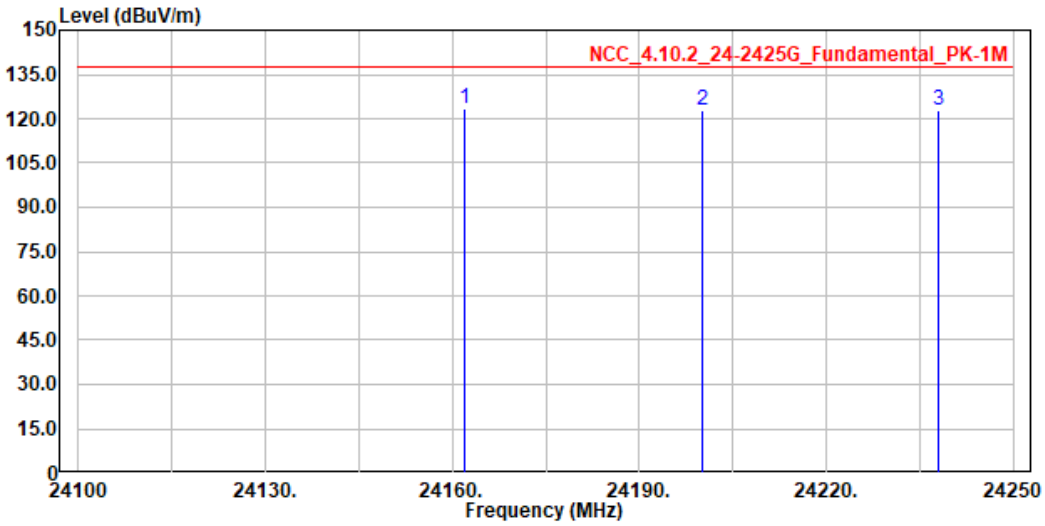
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency (MHz) | Peak Measurement (dBμV/m) | Duty Cycle Factor (dB) | Average Measurement (dBμV/m) | Margin (dB) | Average Limit (dBμV/m) |
|---|---|---|---|---|---|
| 24162 | 109.36 | -33.979 | 75.381 | -42.109 | 117.490 |
| 24200 | 109.57 | -33.979 | 75.591 | -41.899 | 117.490 |
| 24238 | 109.82 | -33.979 | 75.841 | -41.649 | 117.490 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

```
Site      :966-2
Condition :Vertical
Mode      :RF-TX Z axis
TEST BY   :Nova Chu
```




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 24162.000 | 123.33 | 137.49 | -14.16 | 71.91 | 51.42 | Peak |
| 2 | 24200.000 | 123.09 | 137.49 | -14.40 | 71.58 | 51.51 | Peak |
| 3 | 24238.000 | 123.07 | 137.49 | -14.42 | 71.45 | 51.62 | Peak |

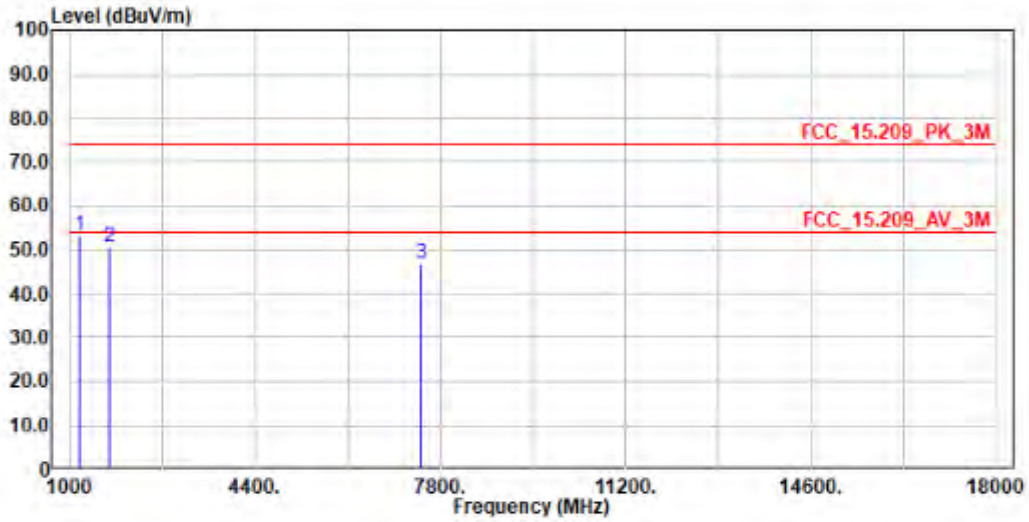
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency (MHz) | Peak Measurement (dBμV/m) | Duty Cycle Factor (dB) | Average Measurement (dBμV/m) | Margin (dB) | Average Limit (dBμV/m) |
|---|---|---|---|---|---|
| 24162 | 123.33 | -33.979 | 89.351 | -28.139 | 117.490 |
| 24200 | 123.09 | -33.979 | 89.111 | -28.379 | 117.490 |
| 24238 | 123.07 | -33.979 | 89.091 | -28.399 | 117.490 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :HORIZONTAL
Mode :RF-TX 24.2GHz
TEST BY :Carlos Chen




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 1170.000 | 53.20 | 74.00 | -20.80 | 76.28 | -23.08 | Peak |
| 2 | 1714.000 | 50.66 | 74.00 | -23.34 | 72.79 | -22.13 | Peak |
| 3 | 7460.000 | 46.61 | 74.00 | -27.39 | 65.36 | -18.75 | Peak |

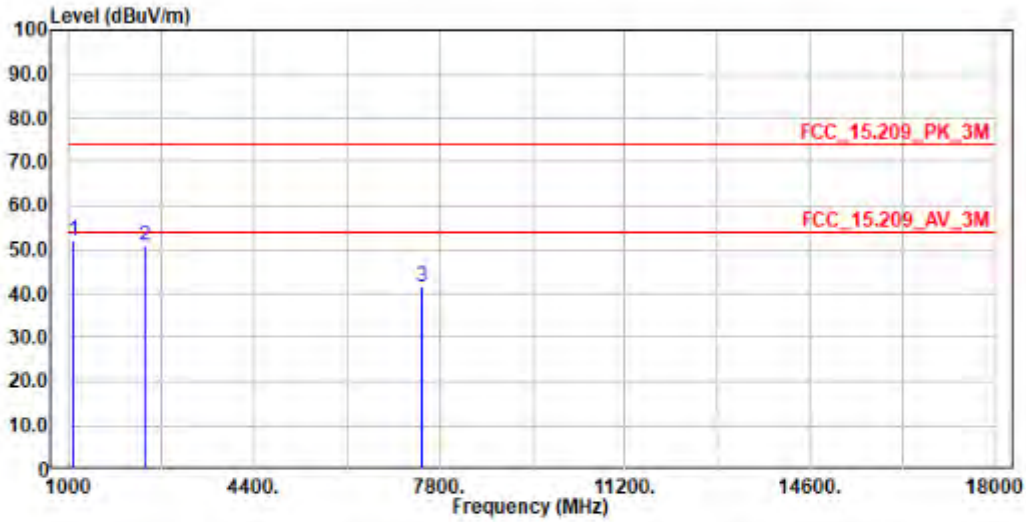
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Peak Limit dBμV/m | Average Limit dBμV/m |
|---|---|---|---|---|---|---|
| **Average Detector:** | | | | | | |
| -- | -- | -- | -- | -- | 74.000 | 54.000 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.

Site :966-2
Condition :VERTICAL
Mode :RF-TX 24.2GHz
TEST BY :Carlos Chen




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 1085.000 | 52.12 | 74.00 | -21.88 | 75.91 | -23.79 | Peak |
| 2 | 2394.000 | 50.94 | 74.00 | -23.06 | 70.74 | -19.80 | Peak |
| 3 | 7477.000 | 41.64 | 74.00 | -32.36 | 60.41 | -18.77 | Peak |

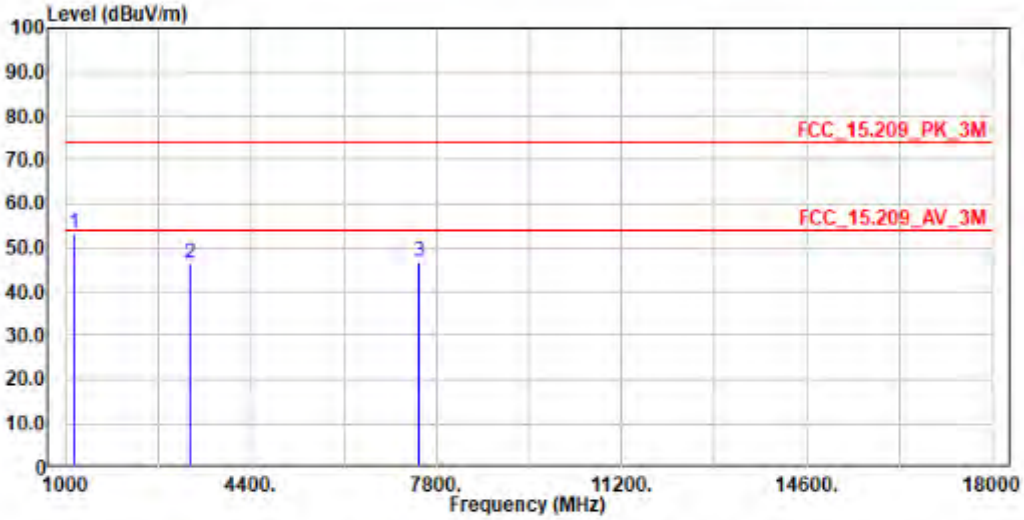
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Peak Limit dBμV/m | Average Limit dBμV/m |
|---|---|---|---|---|---|---|
| **Average Detector:** | | | | | | |
| -- | -- | -- | -- | -- | 74.000 | 54.000 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.

Site :966-2
Condition :HORIZONTAL
Mode :RF-TX 24.162GHz
TEST BY :Carlos Chen




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 1153.000 | 53.05 | 74.00 | -20.95 | 76.25 | -23.20 | Peak |
| 2 | 3278.000 | 46.33 | 74.00 | -27.67 | 65.47 | -19.14 | Peak |
| 3 | 7477.000 | 46.85 | 74.00 | -27.15 | 65.62 | -18.77 | Peak |

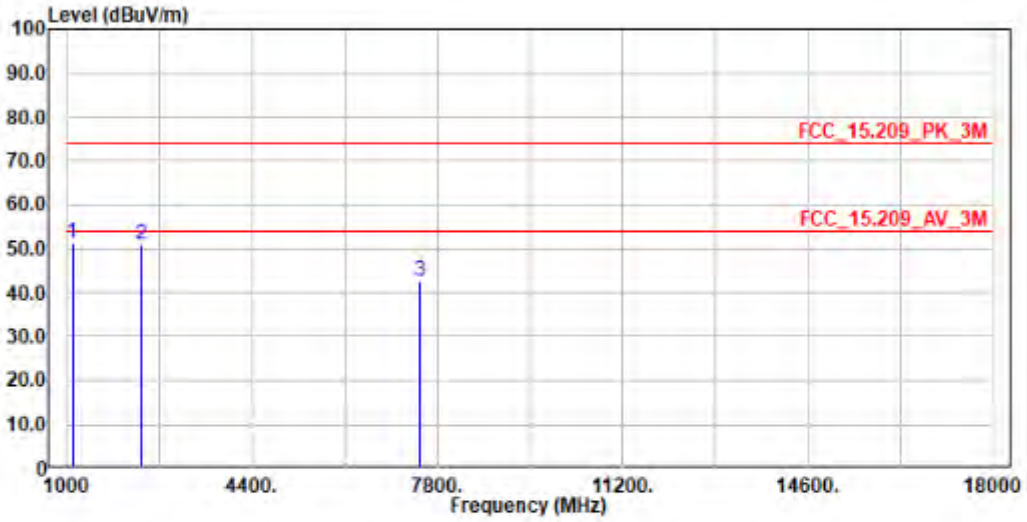
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Peak Limit dBμV/m | Average Limit dBμV/m |
|---|---|---|---|---|---|---|
| **Average Detector:** | | | | | | |
| -- | -- | -- | -- | -- | 74.000 | 54.000 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.

Site :966-2
Condition :VERTICAL
Mode :RF-TX 24.162GHz
TEST BY :Carlos Chen




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 1102.000 | 51.37 | 74.00 | -22.63 | 75.03 | -23.66 | Peak |
| 2 | 2377.000 | 50.84 | 74.00 | -23.16 | 70.64 | -19.80 | Peak |
| 3 | 7477.000 | 42.62 | 74.00 | -31.38 | 61.39 | -18.77 | Peak |

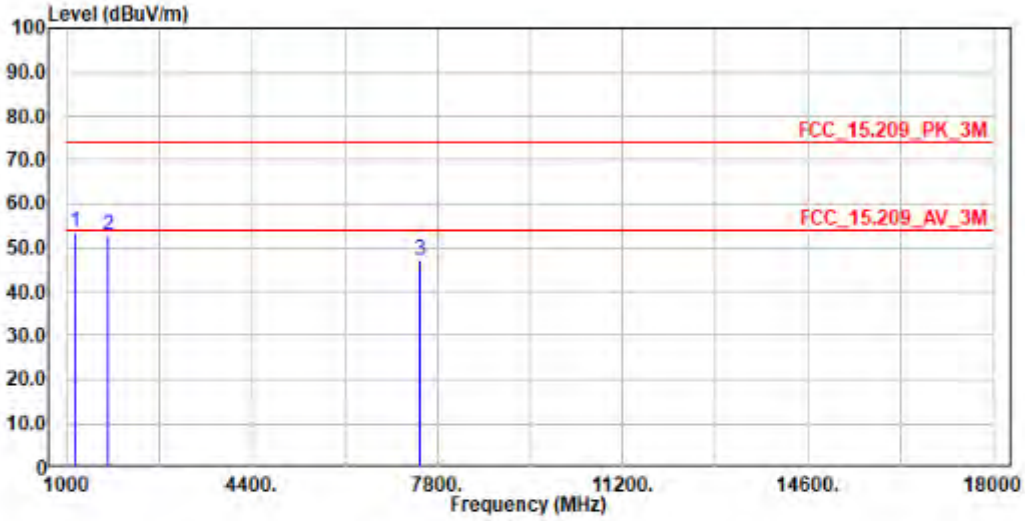
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBµV/m | Duty Cycle Factor dB | Average Measurement dBµV/m | Margin dB | Peak Limit dBµV/m | Average Limit dBµV/m |
|---|---|---|---|---|---|---|
| **Average Detector:** | | | | | | |
| -- | -- | -- | -- | -- | 74.000 | 54.000 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.

Site :966-2
Condition :HORIZONTAL
Mode :RF-TX 24.238GHz
TEST BY :Carlos Chen




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 1153.000 | 53.74 | 74.00 | -20.26 | 76.94 | -23.20 | Peak |
| 2 | 1765.000 | 52.87 | 74.00 | -21.13 | 74.66 | -21.79 | Peak |
| 3 | 7477.000 | 47.28 | 74.00 | -26.72 | 66.05 | -18.77 | Peak |

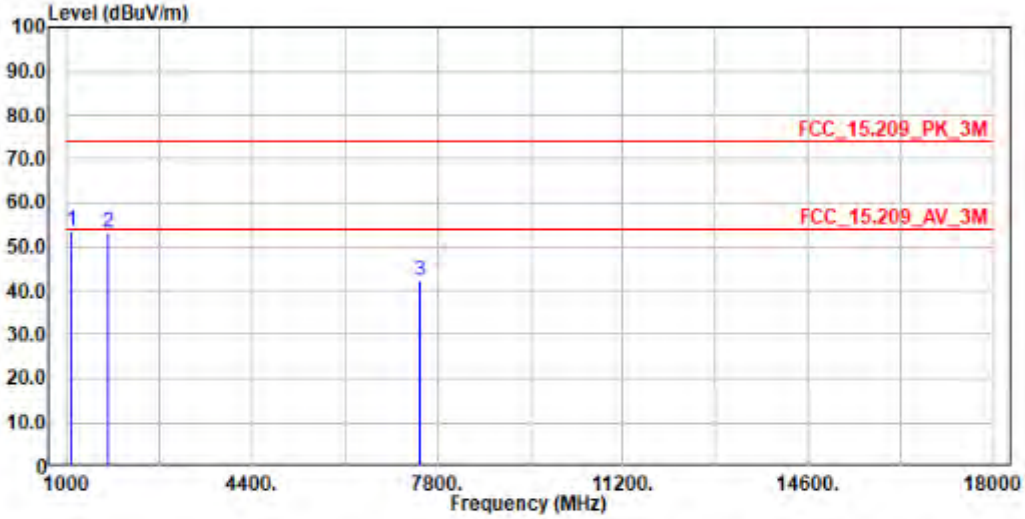
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Peak Limit dBμV/m | Average Limit dBμV/m |
|---|---|---|---|---|---|---|
| **Average Detector:** | | | | | | |
| -- | -- | -- | -- | -- | 74.000 | 54.000 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.

Site :966-2
Condition :VERTICAL
Mode :RF-TX 24.238GHz
TEST BY :Carlos Chen




| No. | Frequency MHz | Level dBuV/m | Limit Line dBuV/m | Over Limit dB | Read Level dBuV | Factor dB | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 1085.000 | 53.41 | 74.00 | -20.59 | 77.20 | -23.79 | Peak |
| 2 | 1748.000 | 53.11 | 74.00 | -20.89 | 74.98 | -21.87 | Peak |
| 3 | 7477.000 | 42.14 | 74.00 | -31.86 | 60.91 | -18.77 | Peak |

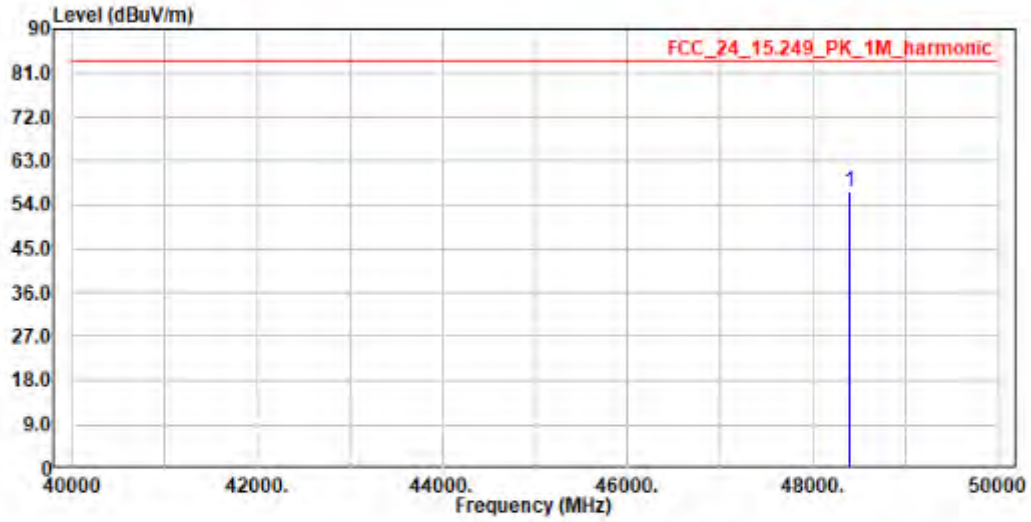
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBµV/m | Duty Cycle Factor dB | Average Measurement dBµV/m | Margin dB | Peak Limit dBµV/m | Average Limit dBµV/m |
|---|---|---|---|---|---|---|
| **Average Detector:** | | | | | | |
| -- | -- | -- | -- | -- | 74.000 | 54.000 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.

Site :966-2
Condition :Horizontal
Mode :RF-TX 24.2GHz
TEST BY :Nova Chu




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 48400.000 | 56.79 | 83.54 | -26.75 | 52.67 | 4.12 | Peak |

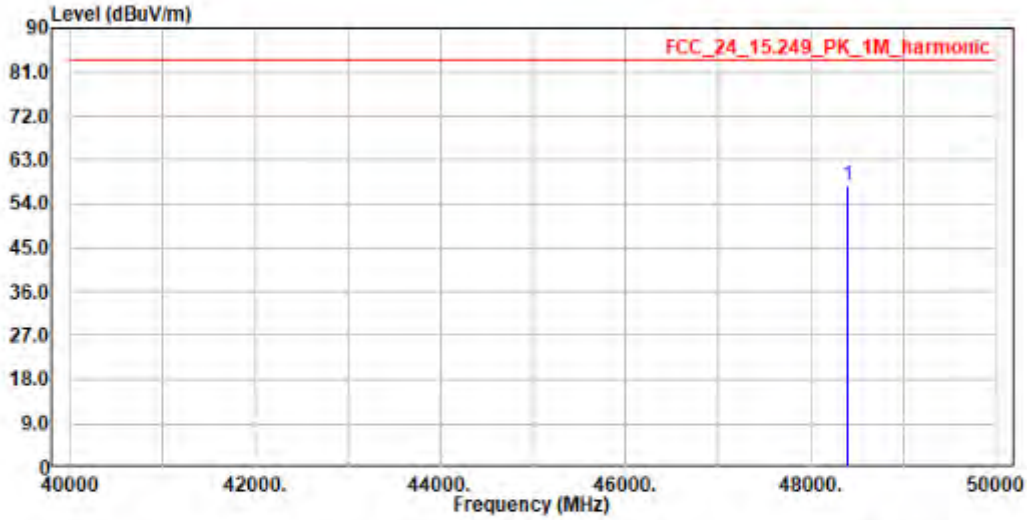
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Average Limit dBμV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| 48324 | 56.98 | -33.979 | 23.001 | -40.539 | 63.540 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Vertical
Mode :RF-TX 24.2GHz
TEST BY :Nova Chu




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 48400.000 | 57.78 | 83.54 | -25.76 | 53.66 | 4.12 | Peak |

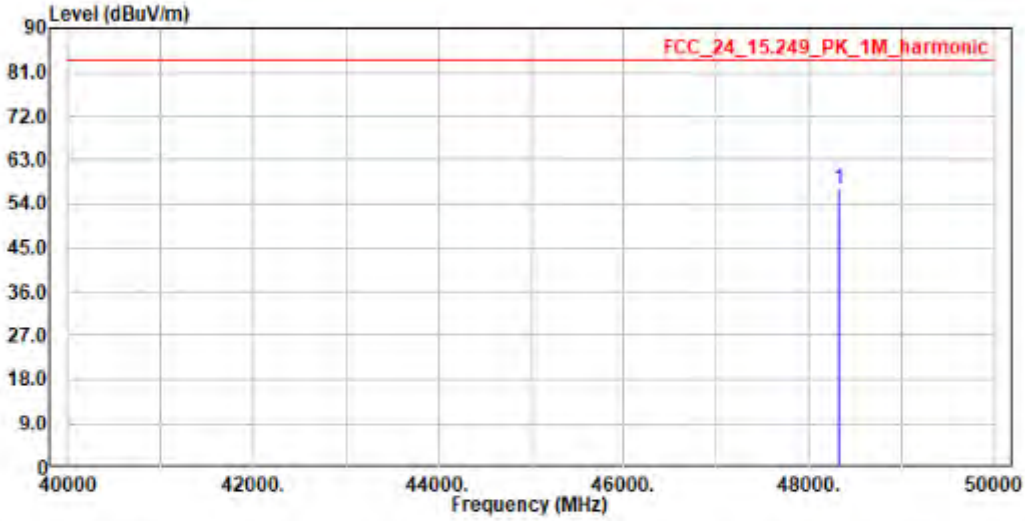
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Average Limit dBμV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| 48324 | 57.67 | -33.979 | 23.691 | -39.849 | 63.540 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Horizontal
Mode :RF-TX 24.162GHz
TEST BY :Nova Chu




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 48324.000 | 56.98 | 83.54 | -26.56 | 53.32 | 3.66 | Peak |

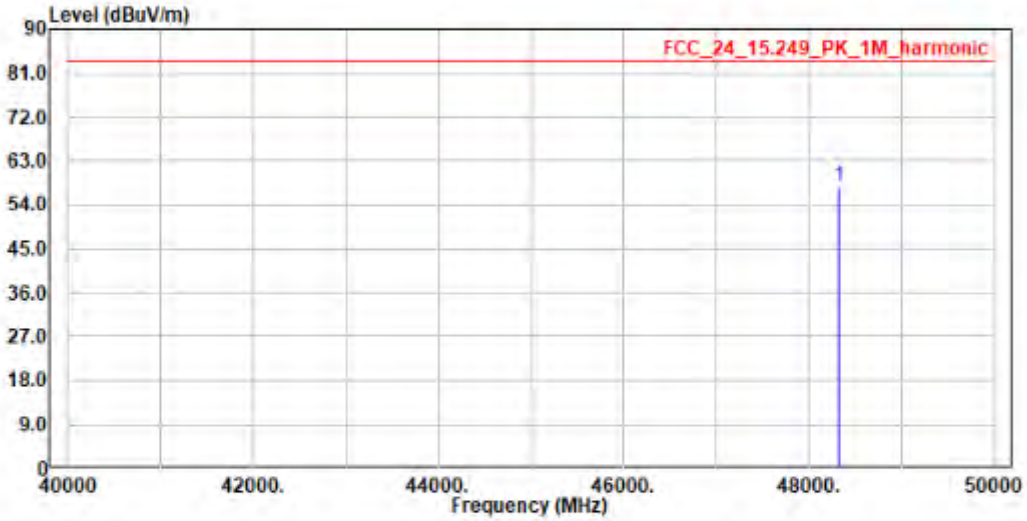
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Average Limit dBμV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| 48400 | 56.79 | -33.979 | 22.811 | -40.729 | 63.540 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Vertical
Mode :RF-TX 24.162GHz
TEST BY :Nova Chu




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 48324.000 | 57.67 | 83.54 | -25.87 | 54.01 | 3.66 | Peak |

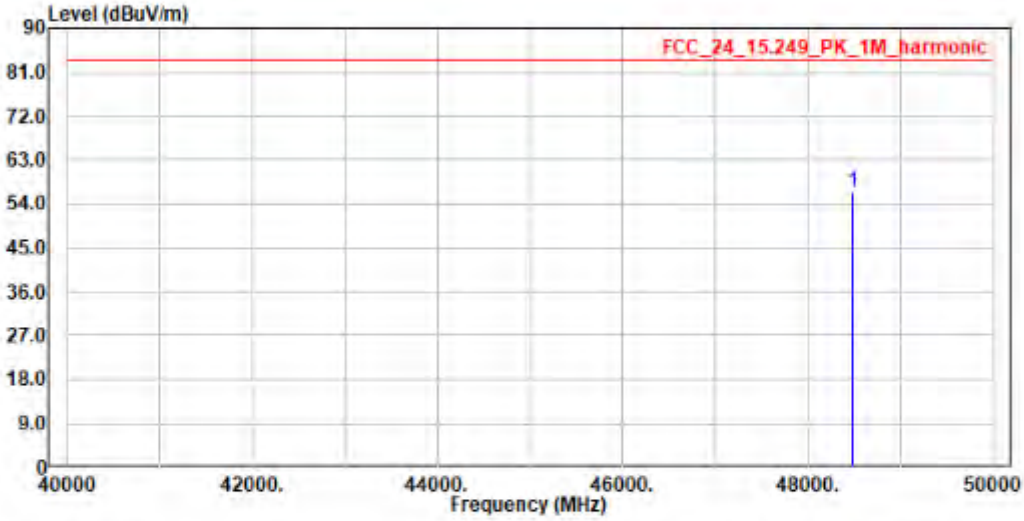
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Average Limit dBμV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| 48400 | 57.78 | -33.979 | 23.801 | -39.739 | 63.540 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Horizontal
Mode :RF-TX 24.238GHz
TEST BY :Nova Chu




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 48476.000 | 56.40 | 83.54 | -27.14 | 51.83 | 4.57 | Peak |

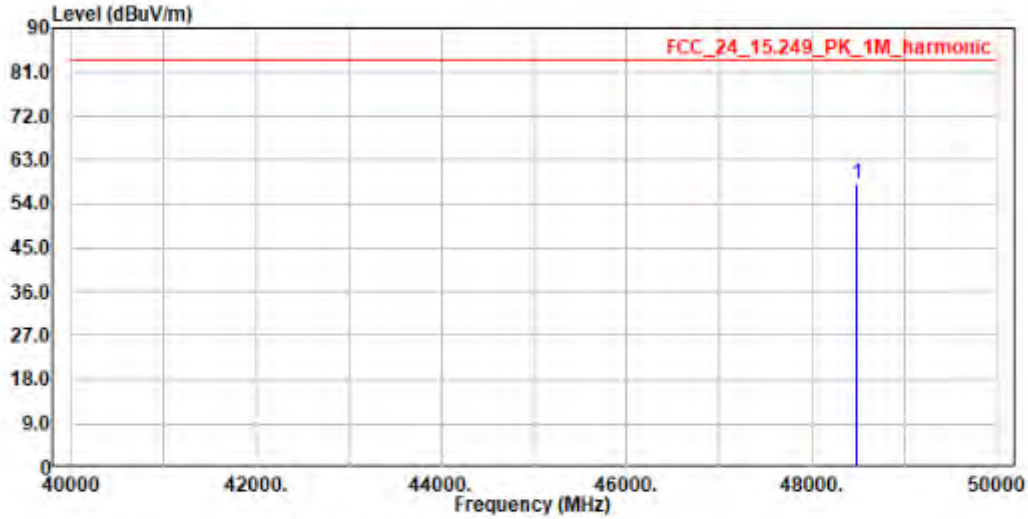
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Average Limit dBμV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| 48476 | 56.4 | -33.979 | 22.421 | -41.119 | 63.540 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Vertical
Mode :RF-TX 24.238GHz
TEST BY :Nova Chu




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 48476.000 | 58.15 | 83.54 | -25.39 | 53.58 | 4.57 | Peak |

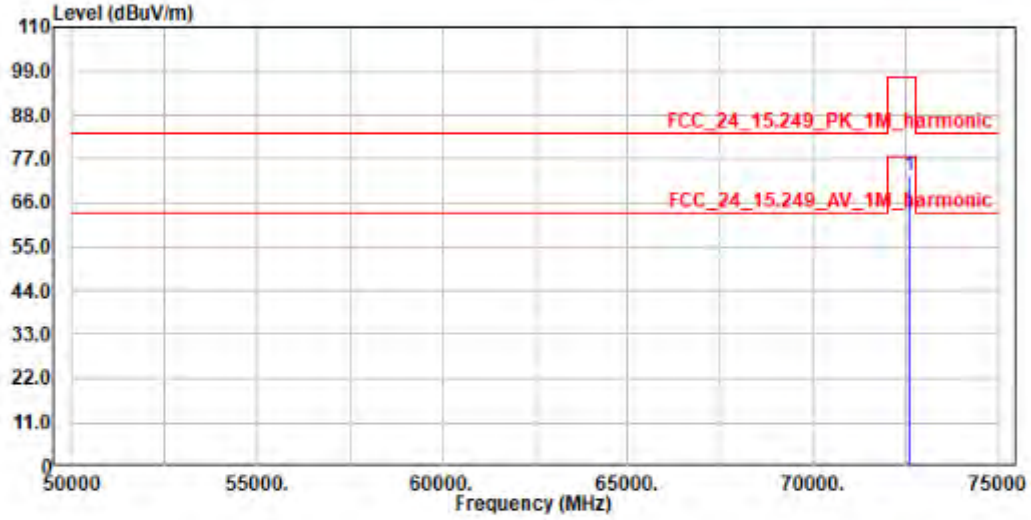
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBµV/m | Duty Cycle Factor dB | Average Measurement dBµV/m | Margin dB | Average Limit dBµV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| 48476 | 58.15 | -33.979 | 24.171 | -39.369 | 63.540 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBµV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Horizontal
Mode :RF-TX 24.2GHz
TEST BY :Carlos Chen




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 72600.000 | 72.58 | 97.49 | -24.91 | 13.23 | 59.35 | Peak |

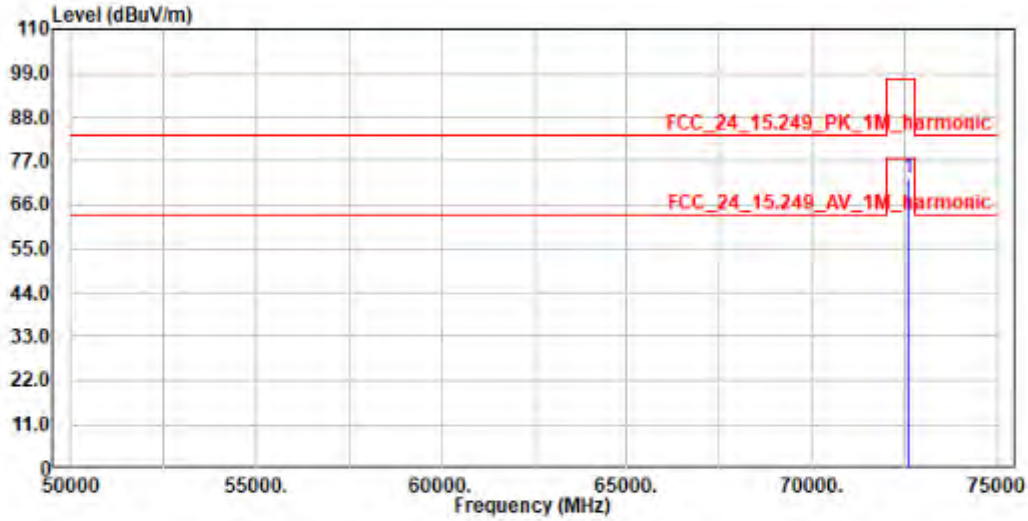
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Average Limit dBμV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| -- | -- | -- | -- | -- | 77.49 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

```
Site      :966-2
Condition :Vertical
Mode      :RF-TX 24.2GHz
TEST BY   :Carlos Chen
```




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 72600.000 | 72.46 | 97.49 | -25.03 | 13.11 | 59.35 | Peak |

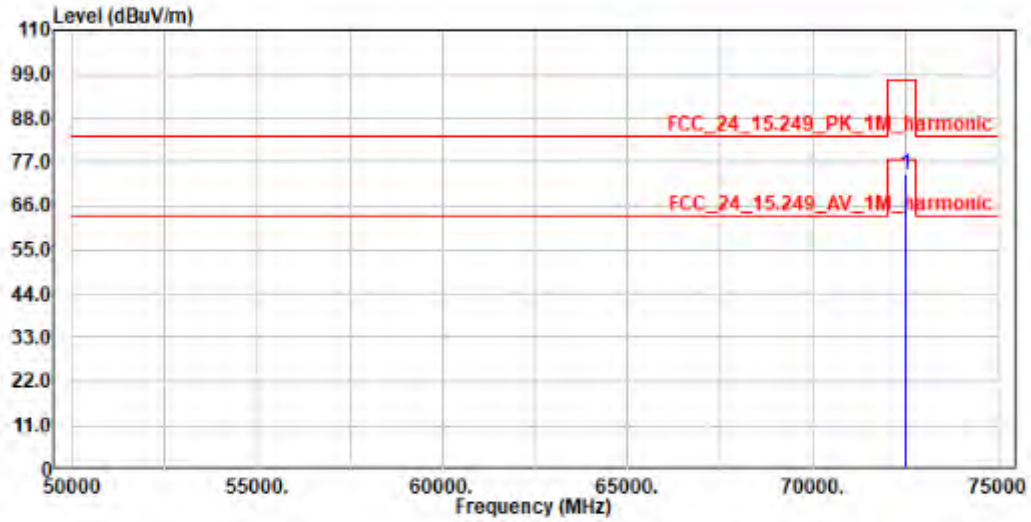
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBµV/m | Duty Cycle Factor dB | Average Measurement dBµV/m | Margin dB | Average Limit dBµV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| -- | -- | -- | -- | -- | 77.49 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBµV) + distance extrapolation factor (9.54dB)

```
Site      :966-2
Condition :Horizontal
Mode      :RF-TX 24.162GHz
TEST BY   :Carlos Chen
```




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 72486.000 | 74.02 | 97.49 | -23.47 | 14.68 | 59.34 | Peak |

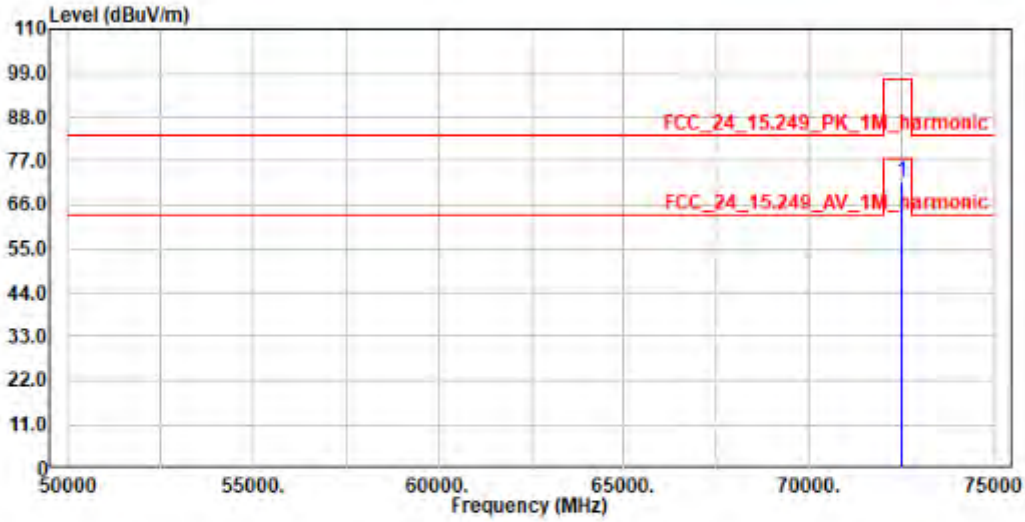
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Average Limit dBμV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| -- | -- | -- | -- | -- | 77.49 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

```
Site      :966-2
Condition :Vertical
Mode      :RF-TX 24.162GHz
TEST BY   :Carlos Chen
```




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 72486.000 | 71.68 | 97.49 | -25.81 | 12.34 | 59.34 | Peak |

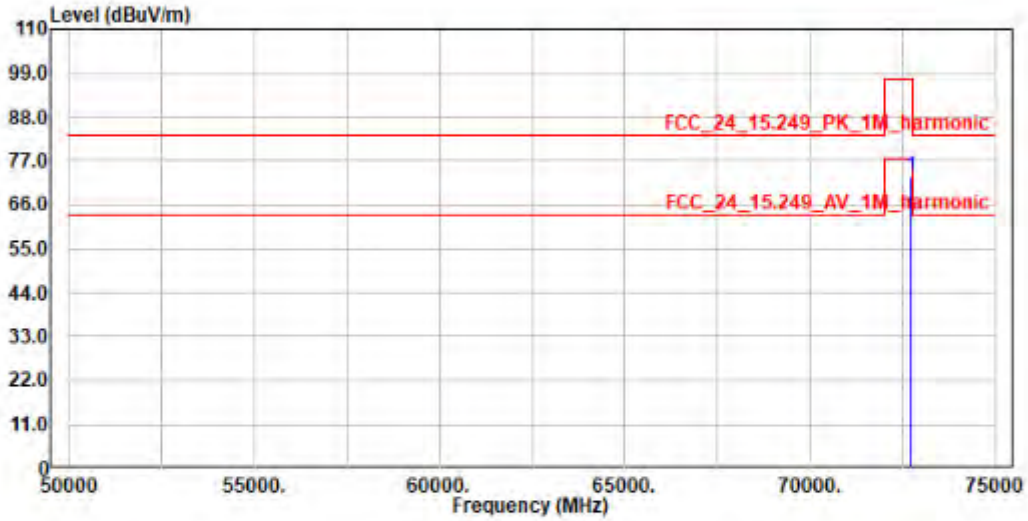
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBµV/m | Duty Cycle Factor dB | Average Measurement dBµV/m | Margin dB | Average Limit dBµV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| -- | -- | -- | -- | -- | 77.49 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBµV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Horizontal
Mode :RF-TX 24.238GHz
TEST BY :Carlos Chen




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 72714.000 | 73.25 | 97.49 | -24.24 | 13.89 | 59.36 | Peak |

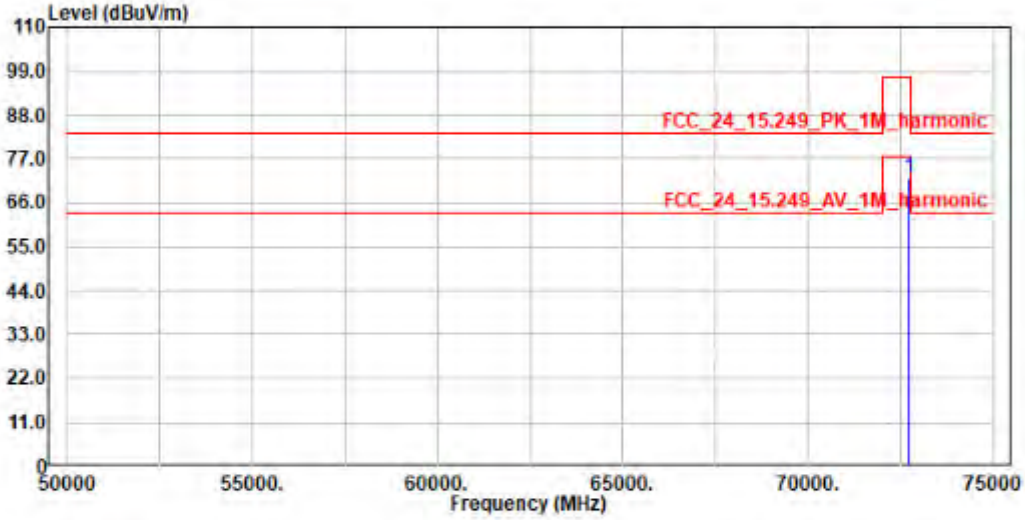
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Average Limit dBμV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| -- | -- | -- | -- | -- | 77.49 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

```
Site      :966-2
Condition :Vertical
Mode      :RF-TX 24.238GHz
TEST BY   :Carlos Chen
```




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 72714.000 | 72.27 | 97.49 | -25.22 | 12.91 | 59.36 | Peak |

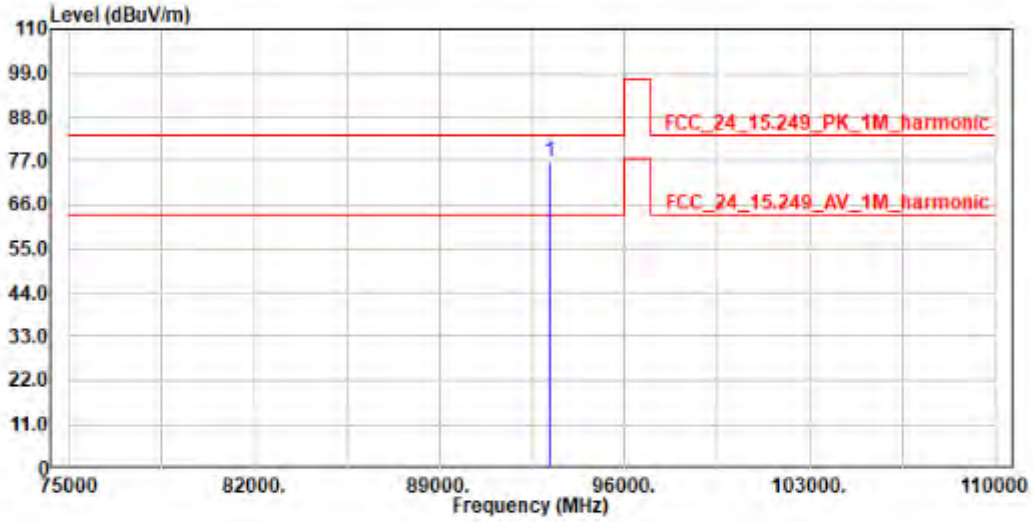
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Average Limit dBμV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| -- | -- | -- | -- | -- | 77.49 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Horizontal
Mode :RF-TX 24.2GHz
TEST BY :Carlos Chen




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 93165.000 | 76.88 | 83.54 | -6.66 | 15.11 | 61.77 | Peak |

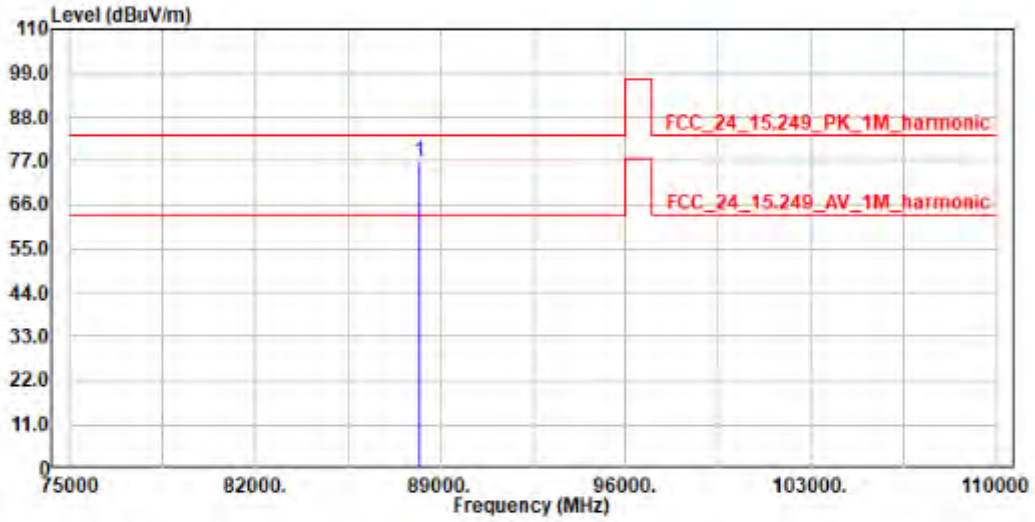
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Average Limit dBμV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| 97610 | 78.55 | -33.979 | 44.571 | -18.969 | 63.540 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Vertical
Mode :RF-TX 24.2GHz
TEST BY :Carlos Chen




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 88230.000 | 76.78 | 83.54 | -6.76 | 15.33 | 61.45 | Peak |

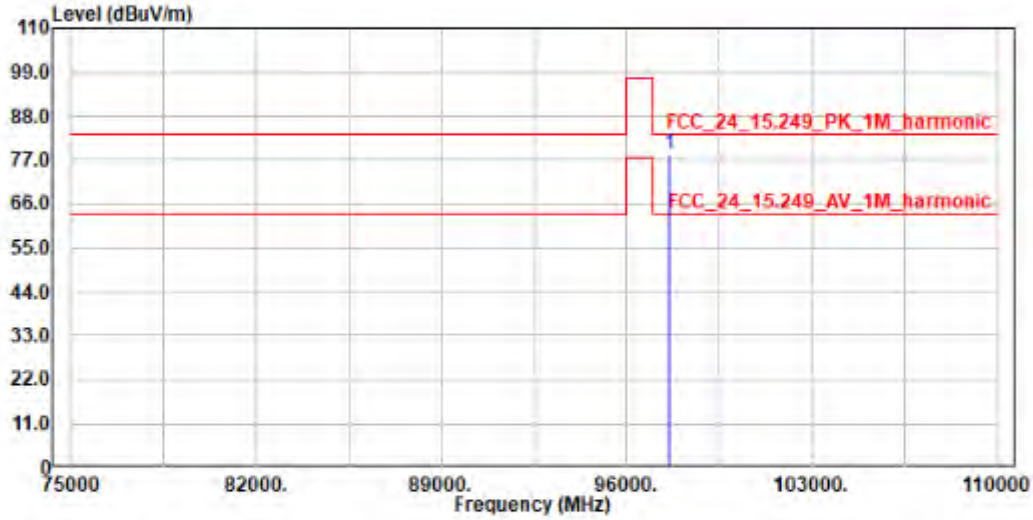
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Average Limit dBμV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| 94670 | 77.24 | -33.979 | 43.261 | -20.279 | 63.540 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Horizontal
Mode :RF-TX 24.162GHz
TEST BY :Carlos Chen




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 97610.000 | 78.55 | 83.54 | -4.99 | 14.82 | 63.73 | Peak |

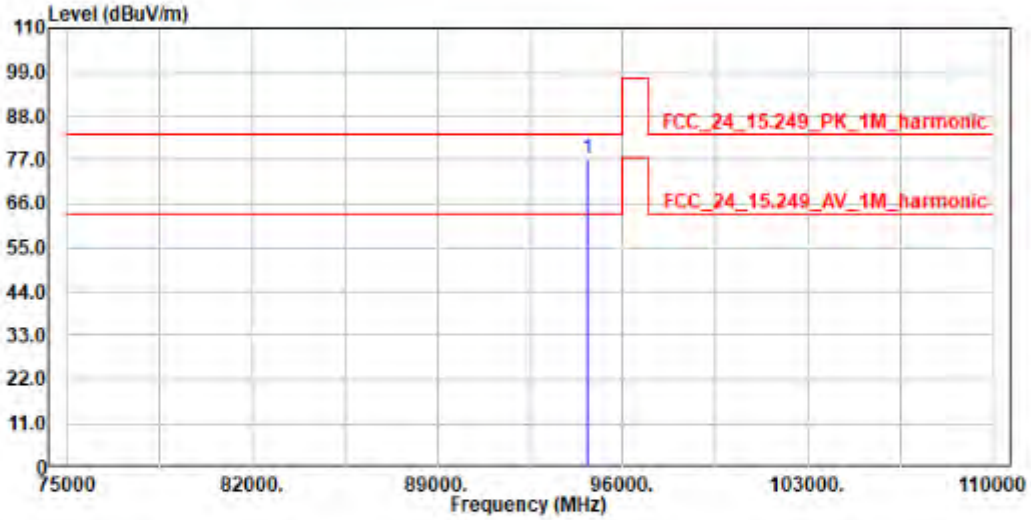
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Average Limit dBμV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| 93165 | 76.88 | -33.979 | 42.901 | -20.639 | 63.540 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Vertical
Mode :RF-TX 24.162GHz
TEST BY :Carlos Chen




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 94670.000 | 77.24 | 83.54 | -6.30 | 15.44 | 61.80 | Peak |

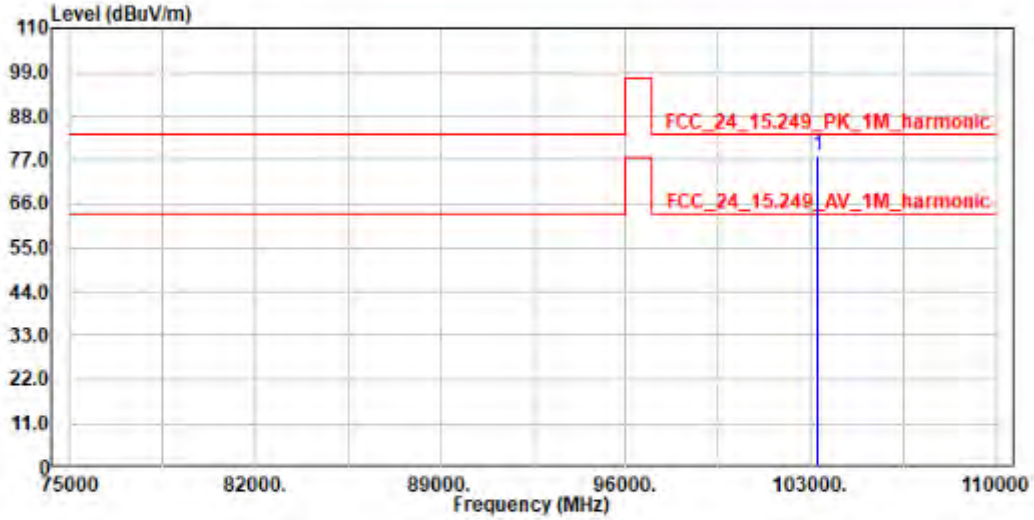
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBµV/m | Duty Cycle Factor dB | Average Measurement dBµV/m | Margin dB | Average Limit dBµV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| 88230 | 76.78 | -33.979 | 42.801 | -20.739 | 63.540 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBµV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Horizontal
Mode :RF-TX 24.238GHz
TEST BY :Carlos Chen




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 103245.000 | 78.10 | 83.54 | -5.44 | 15.43 | 62.67 | Peak |

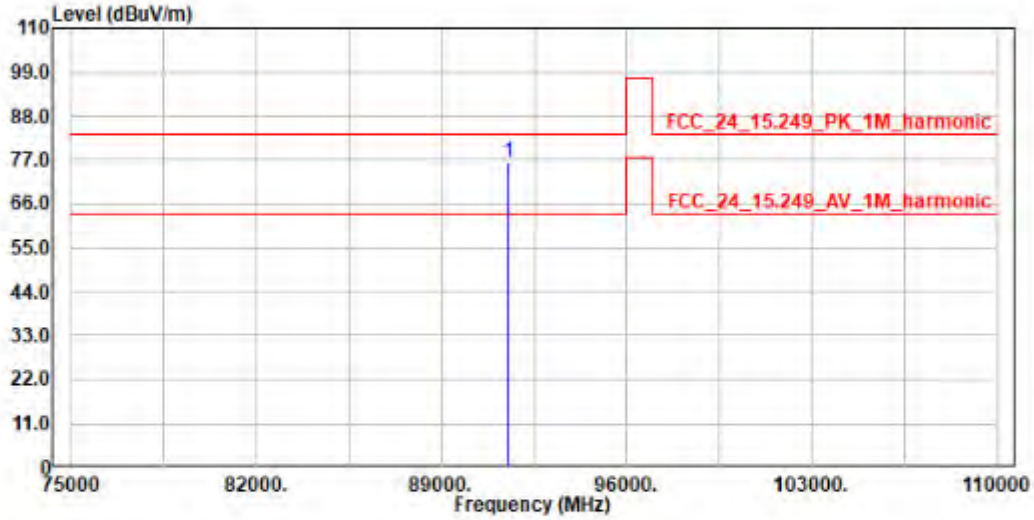
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Average Limit dBμV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| 103245 | 78.1 | -33.979 | 44.121 | -19.419 | 63.540 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Vertical
Mode :RF-TX 24.238GHz
TEST BY :Carlos Chen




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 91555.000 | 76.58 | 83.54 | -6.96 | 14.99 | 61.59 | Peak |

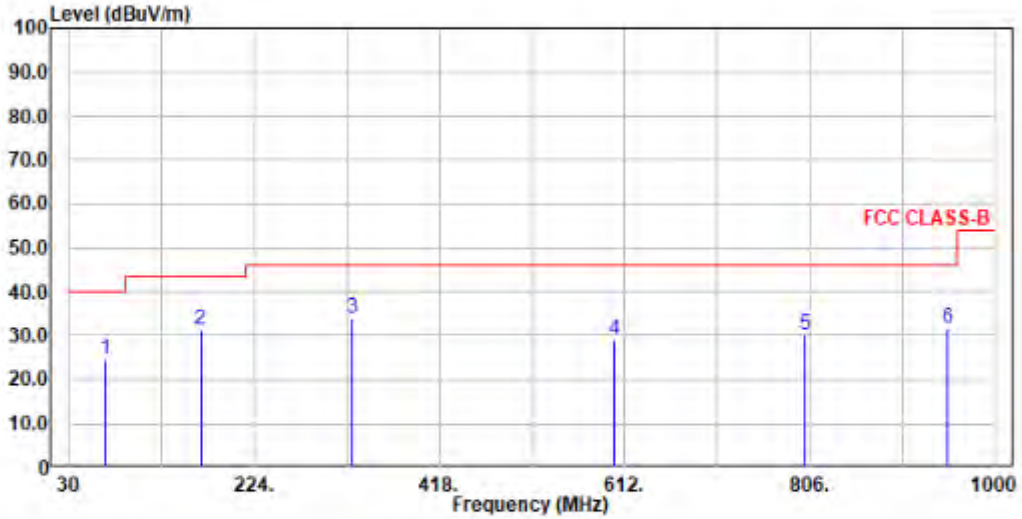
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency MHz | Peak Measurement dBμV/m | Duty Cycle Factor dB | Average Measurement dBμV/m | Margin dB | Average Limit dBμV/m |
|---|---|---|---|---|---|
| **Average Detector:** | | | | | |
| 91555 | 76.58 | -33.979 | 42.601 | -20.939 | 63.540 |

Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :3m ,Horizontal
Mode :RE-TX 24.2GHz
TEST BY :Nova Chu

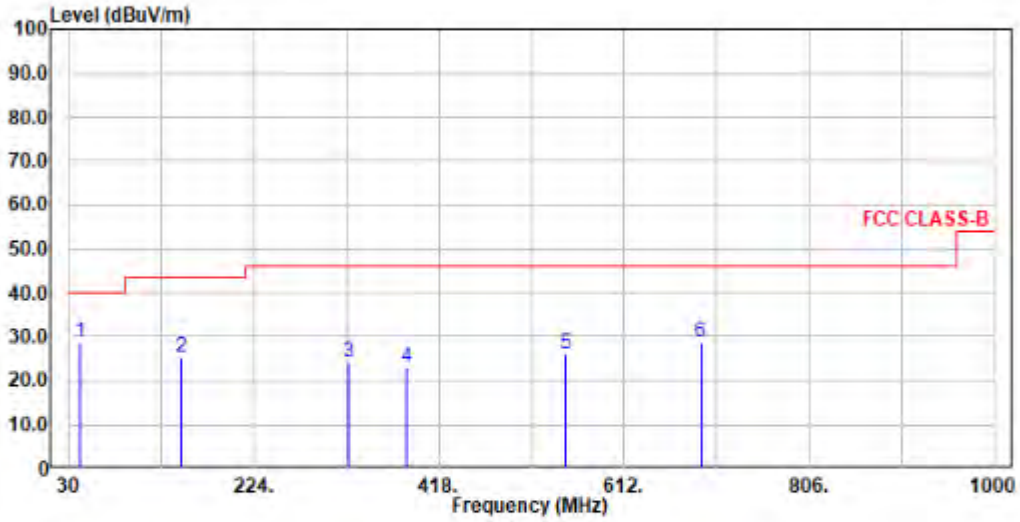



| No. | Frequency MHz | Level dBm | Limit Line dBm | Over Limit dB |
|---|---|---|---|---|
| 1 | 67.957 | 24.69 | 40.00 | -15.31 |
| 2 | 167.768 | 31.17 | 43.50 | -12.33 |
| 3 | 326.623 | 33.84 | 46.00 | -12.16 |
| 4 | 600.754 | 29.10 | 46.00 | -16.90 |
| 5 | 800.377 | 30.35 | 46.00 | -15.65 |
| 6 | 950.797 | 31.84 | 46.00 | -14.16 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Site :966-2
Condition :3m ,Vertical
Mode :RE-TX 24.2GHz
TEST BY :Nova Chu

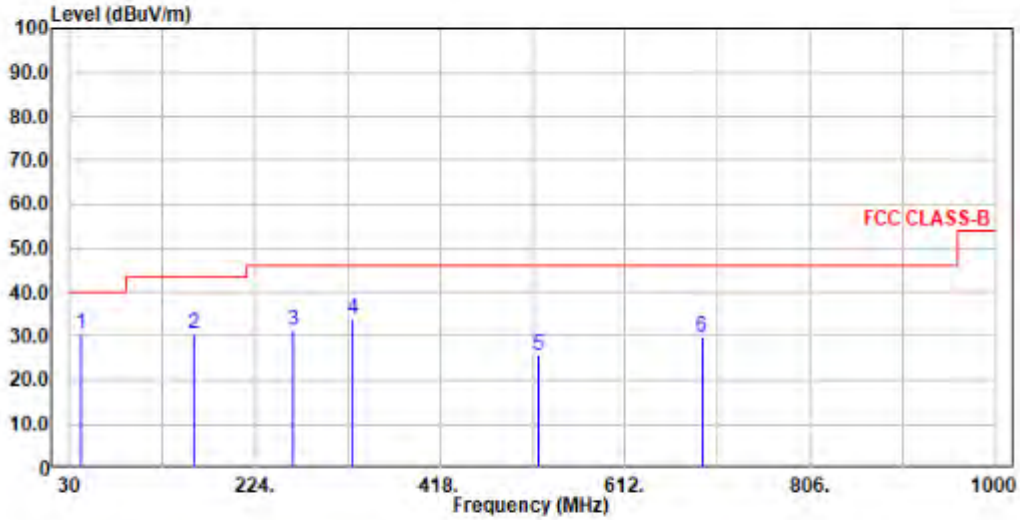



| No. | Frequency MHz | Level dBm | Limit Line dBm | Over Limit dB |
|---|---|---|---|---|
| 1 | 42.652 | 28.71 | 40.00 | -11.29 |
| 2 | 148.087 | 25.14 | 43.50 | -18.36 |
| 3 | 322.406 | 24.21 | 46.00 | -21.79 |
| 4 | 384.261 | 23.20 | 46.00 | -22.80 |
| 5 | 550.145 | 25.87 | 46.00 | -20.13 |
| 6 | 692.130 | 28.73 | 46.00 | -17.27 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Site :966-2
Condition :3m ,Horizontal
Mode :RE-TX 24.162GHz
TEST BY :Nova Chu

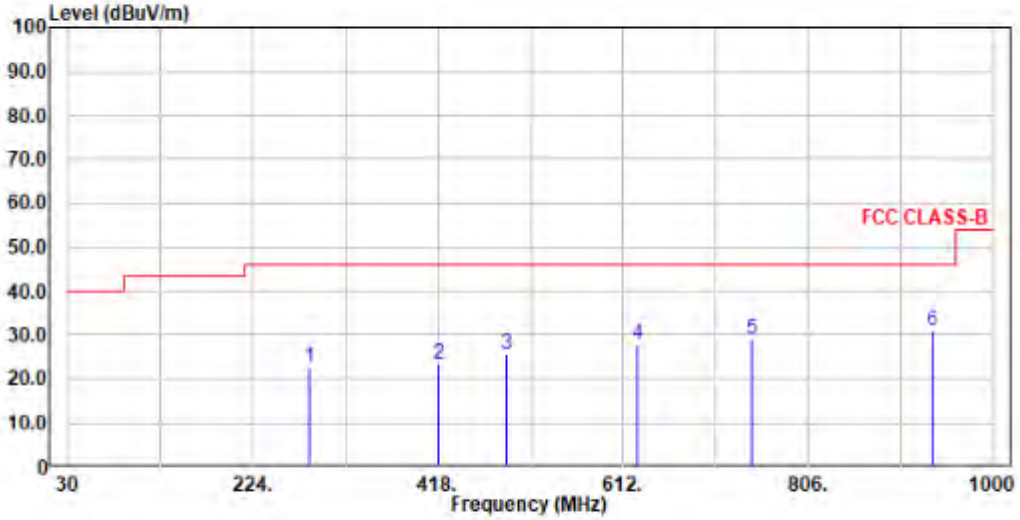



| No. | Frequency | Level | Limit Line | Over Limit |
|---|---|---|---|---|
| | MHz | dBm | dBm | dB |
| 1 | 42.652 | 30.63 | 40.00 | -9.37 |
| 2 | 159.333 | 30.40 | 43.50 | -13.10 |
| 3 | 263.362 | 31.23 | 46.00 | -14.77 |
| 4 | 326.623 | 33.84 | 46.00 | -12.16 |
| 5 | 520.623 | 25.62 | 46.00 | -20.38 |
| 6 | 692.130 | 29.65 | 46.00 | -16.35 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Site :966-2
Condition :3m ,Vertical
Mode :RE-TX 24.162GHz
TEST BY :Nova Chu

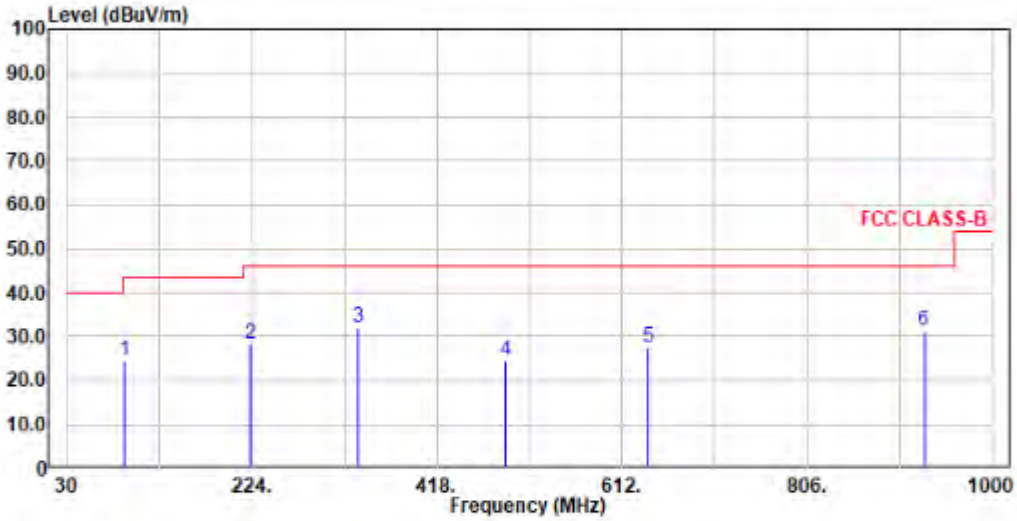



| No. | Frequency | Level | Limit Line | Over Limit |
|---|---|---|---|---|
| | MHz | dBm | dBm | dB |
| 1 | 283.044 | 22.53 | 46.00 | -23.47 |
| 2 | 419.406 | 23.53 | 46.00 | -22.47 |
| 3 | 489.696 | 25.78 | 46.00 | -20.22 |
| 4 | 627.464 | 27.97 | 46.00 | -18.03 |
| 5 | 746.957 | 28.92 | 46.00 | -17.08 |
| 6 | 936.739 | 30.85 | 46.00 | -15.15 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Site :966-2
Condition :3m ,Horizontal
Mode :RE-TX 24.238GHz
TEST BY :Nova Chu

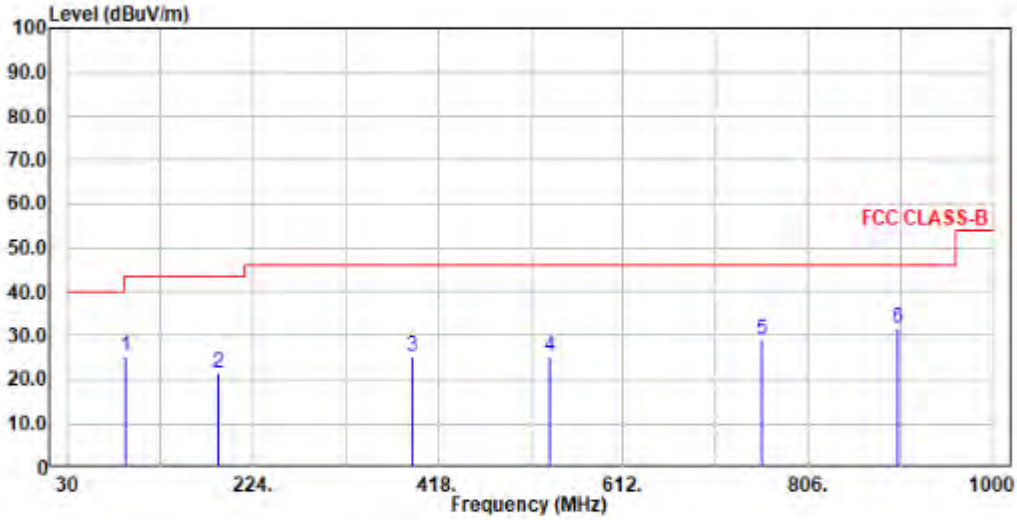



| No. | Frequency MHz | Level dBm | Limit Line dBm | Over Limit dB |
|---|---|---|---|---|
| 1 | 90.449 | 24.45 | 43.50 | -19.05 |
| 2 | 222.594 | 28.36 | 46.00 | -17.64 |
| 3 | 335.058 | 31.95 | 46.00 | -14.05 |
| 4 | 489.696 | 24.56 | 46.00 | -21.44 |
| 5 | 638.710 | 27.43 | 46.00 | -18.57 |
| 6 | 928.304 | 31.42 | 46.00 | -14.58 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Site :966-2
Condition :3m ,Vertical
Mode :RE-TX 24.238GHz
TEST BY :Nova Chu




| No. | Frequency | Level | Limit Line | Over Limit |
|---|---|---|---|---|
| | MHz | dBm | dBm | dB |
| 1 | 90.449 | 25.37 | 43.50 | -18.13 |
| 2 | 187.449 | 21.41 | 43.50 | -22.09 |
| 3 | 391.290 | 25.21 | 46.00 | -20.79 |
| 4 | 534.681 | 25.30 | 46.00 | -20.70 |
| 5 | 756.797 | 29.03 | 46.00 | -16.97 |
| 6 | 900.188 | 31.84 | 46.00 | -14.16 |

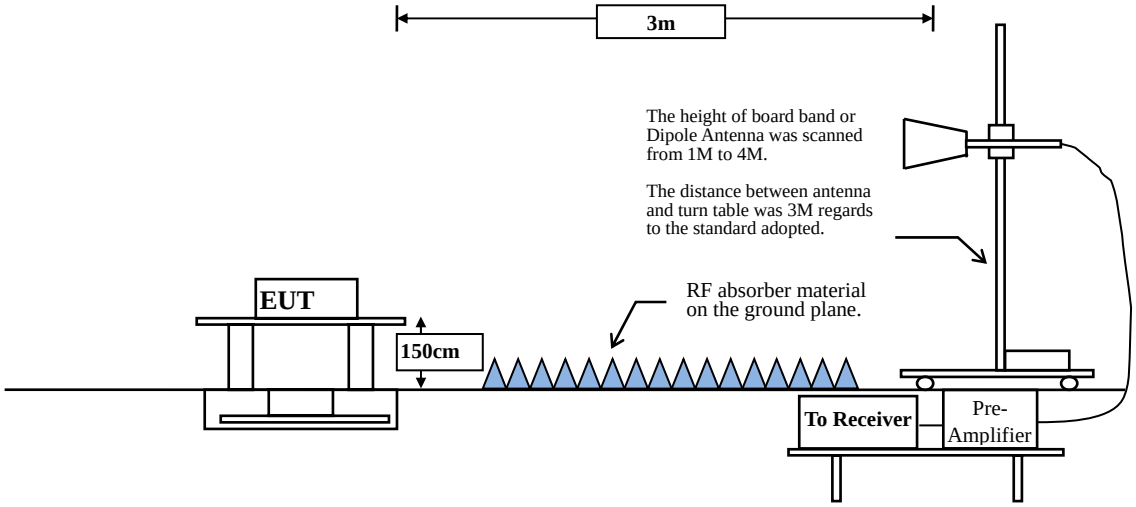
Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

# 4. Band Edge

## 4.1. Test Setup

**RF Radiated Measurement:**




## 4.2. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| FCC Part 15 Subpart C Paragraph 15.209(a) Limits | | |
|---|---|---|
| Frequency MHz | Field strength (microvolts/meter) | Measurement distance (meter) |
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remarks: E field strength (dBμV /m) = 20 log E field strength (uV/m)

## 4.3. Test Procedure

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

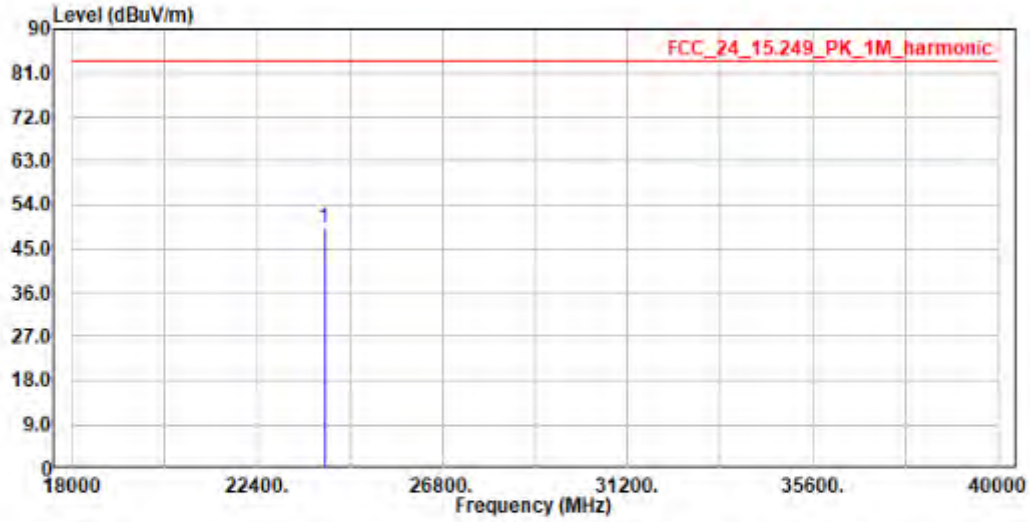
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The bandwidth setting below 1GHz and above 1GHz on the field strength meter is 120 kHz and 1MHz, respectively.

## 4.4. Test Result of Band Edge

Site :966-2
Condition :Horizontal
Mode :RF-TX 24.162GHz
TEST BY :Carlos Chen



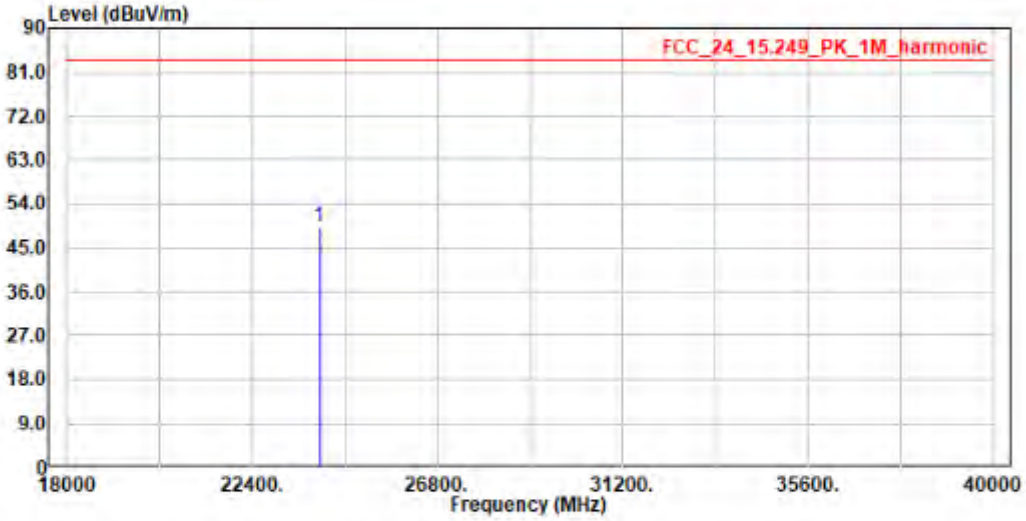

| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 24000.000 | 49.21 | 83.54 | -34.33 | 32.87 | 16.34 | Peak |

Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency (MHz) | Peak Measurement (dBμV/m) | Duty Cycle Factor (dB) | Average Measurement (dBμV/m) | Margin (dB) | Average Limit (dBμV/m) | Result |
|---|---|---|---|---|---|---|
| 24000 | 49.21 | -33.979 | 15.231 | -48.309 | 63.540 | Pass |

Note:
1. Average Measurement=Peak Measurement + Duty Cycle Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

```
Site      :966-2
Condition :Vertical
Mode      :RF-TX 24.162GHz
TEST BY   :Carlos Chen
```




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 24000.000 | 49.21 | 83.54 | -34.33 | 32.87 | 16.34 | Peak |

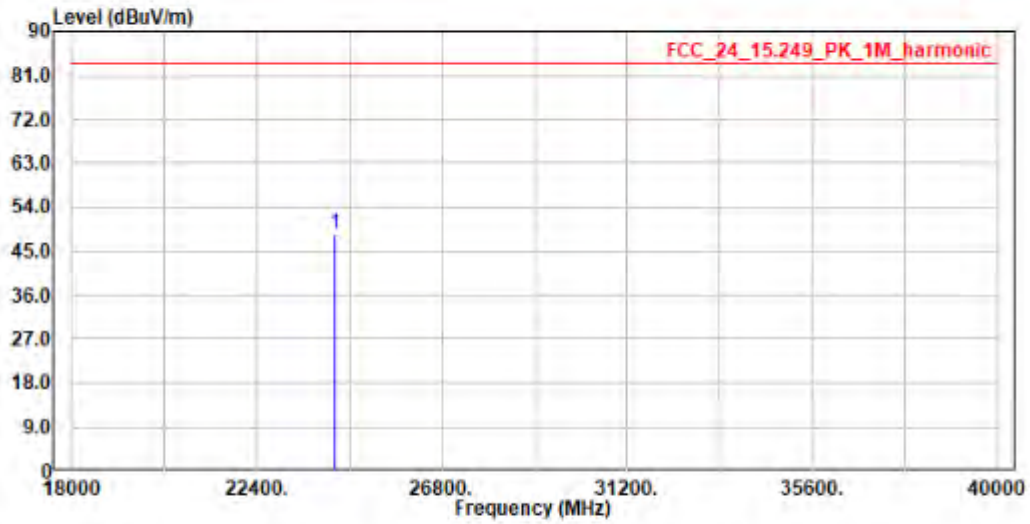
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency (MHz) | Peak Measurement (dBµV/m) | Duty Cycle Factor (dB) | Average Measurement (dBµV/m) | Margin (dB) | Average Limit (dBµV/m) | Result |
|---|---|---|---|---|---|---|
| 24000 | 49.21 | -33.979 | 15.231 | -48.309 | 63.540 | Pass |

Note:

1. Average Measurement=Peak Measurement + Duty Cycle Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBµV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Horizontal
Mode :RF-TX 24.238GHz
TEST BY :Carlos Chen



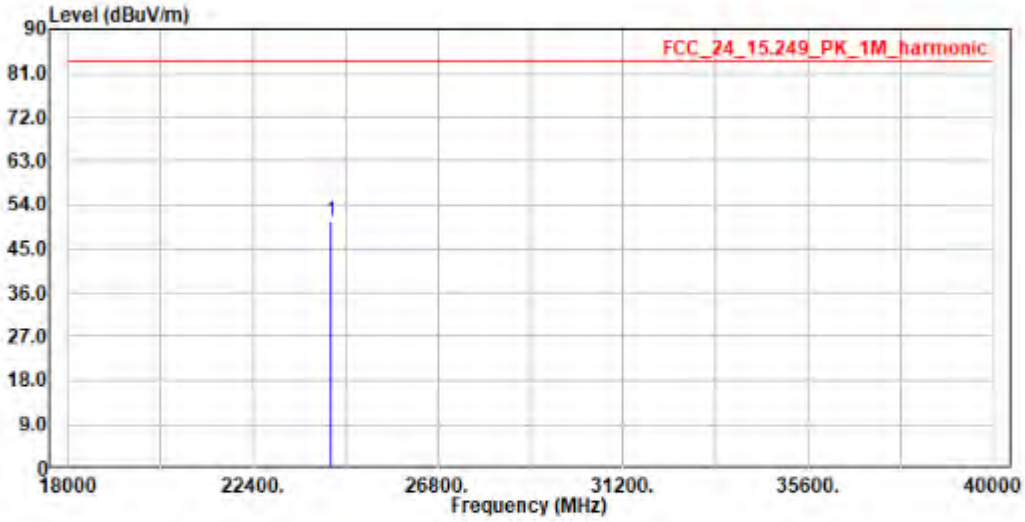

| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 24250.000 | 48.44 | 83.54 | -35.10 | 31.33 | 17.11 | Peak |

Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

| Frequency (MHz) | Peak Measurement (dBμV/m) | Duty Cycle Factor (dB) | Average Measurement (dBμV/m) | Margin (dB) | Average Limit (dBμV/m) | Result |
|---|---|---|---|---|---|---|
| 24250 | 48.44 | -33.979 | 14.461 | -49.079 | 63.540 | Pass |

Note:
1. Average Measurement=Peak Measurement + Duty Cycle Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

Site :966-2
Condition :Vertical
Mode :RF-TX 24.238GHz
TEST BY :Carlos Chen




| No. | Frequency | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | |
| 1 | 24250.000 | 50.52 | 83.54 | -33.02 | 33.41 | 17.11 | Peak |

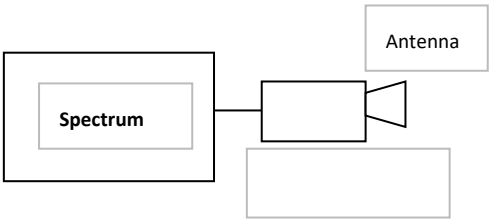
Note:
1. Level = Read Level + Factor
2. Factor = Antenna- Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

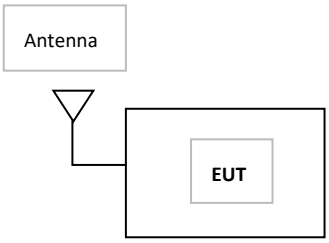
| Frequency (MHz) | Peak Measurement (dBμV/m) | Duty Cycle Factor (dB) | Average Measurement (dBμV/m) | Margin (dB) | Average Limit (dBμV/m) | Result |
|---|---|---|---|---|---|---|
| 24250 | 50.52 | -33.979 | 16.541 | -46.999 | 63.540 | Pass |

Note:
1. Average Measurement=Peak Measurement + Duty Cycle Factor
2. The Duty Cycle is refer to section 5.
3. Distance extrapolation factor = 20 log (specific distance 3m)/(test distance 1m)
   Limit line = specific(dBμV) + distance extrapolation factor (9.54dB)

# 5. Duty Cycle

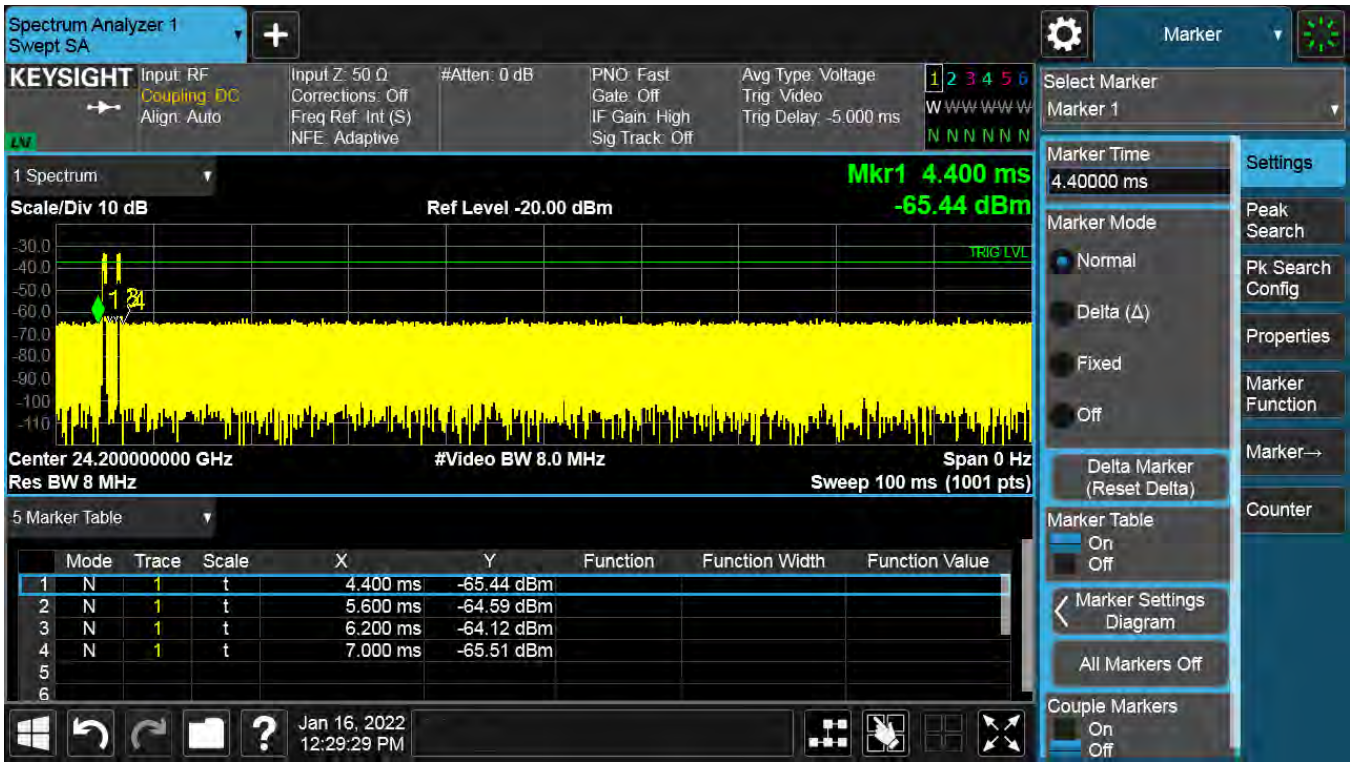
## 5.1. Test Setup



## 5.2. Test Result of Duty Cycle

Product : USRR05MA
Test Item : Duty Cycle Data
Test Mode : Mode 2: Normal mode




Time on of 100ms= 2ms

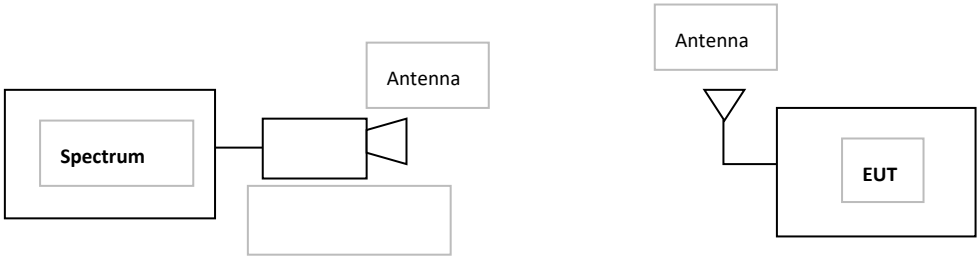
Duty Cycle=2ms / 100ms= 0.02

Duty Cycle correction factor= 20 LOG 0.02= -33.979 dB

| | |
|---|---|
| **Duty Cycle correction factor** | **-33.979 dB** |

# 6. 20dB Occupied Bandwidth

## 6.1. Test Setup



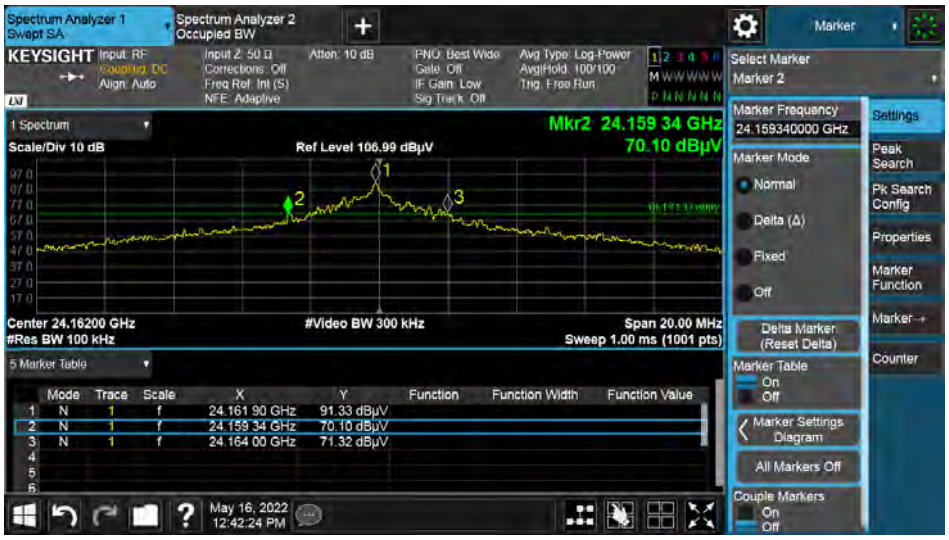

## 6.2. Limits

No Required

## 6.3. Test Result of Occupied Bandwidth

Product : USRR05MA
Test Item : Occupied Bandwidth
Test Mode : Mode 1: Transmit

| Channel No. | Frequency (MHz) | Measurement Level (MHz) | Required Limit (MHz) | Result |
|---|---|---|---|---|
| 1 | 24162 | 4.66 | -- | Pass |
| 2 | 24200 | 4.30 | -- | Pass |
| 3 | 24238 | 3.30 | -- | Pass |



## 7. EMI Reduction Method During Compliance Testing

No modification was made during testing.