**Shenzhen Global Test Service Co.,Ltd.**
No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

# TEST REPORT
## FCC Rules and Regulations Part PART 15.249

| | |
|---|---|
| Report Reference No.: | GTS202011030l7-1-1 |
| FCC ID: | 2AX2A-USB-102 |
| Compiled by ( position+printed name+signature)..: | File administrators Jimmy Wang |
| Supervised by ( position+printed name+signature)..: | Test Engineer Aaron Tan |
| Approved by ( position+printed name+signature)..: | Manager Jason Hu |
| Date of issue.....: | Nov.03, 2020 |

| | |
|---|---|
| **Testing Laboratory Name** .....: | **Shenzhen Global Test Service Co., Ltd.** |
| Address.....: | No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China |
| **Applicant's name**.....: | **Enping Karonl Electronic Technology Co., Ltd.** |
| Address .....: | Second Floor, Third Floor, Electronic Building, Dongan Industrial Zone, Enping City,China |
| Standard .....: | **FCC Rules and Regulations Part PART 15.249** |



| | |
|---|---|
| **Test item description .....:** | wireless microphone |
| Trade Mark .....: | N/A |
| **Manufacturer**.....: | **Enping Karonl Electronic Technology Co., Ltd.** |
| Model/Type reference.....: | USB-102 |
| Listed Models .....: | VOCOPRO-USB-CAST-(H,B,C),USB-102,USB-101T,USB-102T,USB-101M, USB-102M,U-801,802,K-910,K-930,K-931,K-220U,K-220S,ST-08,BT-168, K-711,K-712,K-8800A,K-84000A,k-889A,A6,K-366,K-661,K-662,K-2800 |
| Modulation .....: | FM |
| Frequency..... | 902-928MHz |
| Ratings .....: | DC 3.0 V From Battery |
| Result.....: | **PASS** |

# T E S T  R E P O R T

| **Test Report No. :** | **GTS20201103017-1-1** | Nov.03, 2020<br>Date of issue |
|---|---|---|

| | | |
|---|---|---|
| Equipment under Test | : | wireless microphone |
| Model /Type | : | USB-102 |
| Listed Models | : | VOCOPRO-USB-CAST-(H,B,C),USB-102,USB-101T,USB-102T, USB-101M,USB-102M,U-801,802,K-910,K-930,K-931,K-220U, K-220S,ST-08,BT-168,K-711,K-712,K-8800A,K-84000A,k-889A, A6,K-366,K-661,K-662,K-2800 |
| **Applicant** | : | **Enping Karonl Electronic Technology Co., Ltd.** |
| Address | : | Second Floor, Third Floor, Electronic Building, Dongan Industrial Zone, Enping City,China |
| **Manufacturer** | : | **Enping Karonl Electronic Technology Co., Ltd.** |
| Address | : | Second Floor, Third Floor, Electronic Building, Dongan Industrial Zone, Enping City,China |

| **Test Result**: | **PASS** |
|---|---|

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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# 1. TEST STANDARDS

The tests were performed according to following standards:

**FCC Rules Part 15.249:** Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz.

**ANSI C63.10:2013 :** American National Standard for Testing Unlicensed Wireless Devices

**ANSI C63.4: 2014:** –American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz Range of 9 kHz to 40GHz

# 2 . SUMMARY

## 2.1. General Remarks

| | | |
|---|---|---|
| Date of receipt of test sample | : | Oct.16, 2020 |
| | | |
| | | |
| Testing commenced on | : | Oct.16, 2020 |
| | | |
| | | |
| Testing concluded on | : | Nov.03, 2020 |

## 2.2. Product Description

| | |
|---|---|
| Name of EUT | wireless microphone |
| Model Number | USB-102 |
| List Model: | VOCOPRO-USB-CAST-(H,B,C),USB-102,USB-101T,USB-102T, USB-101M,USB-102M,U-801,802,K-910,K-930,K-931,K-220U, K-220S,ST-08,BT-168,K-711,K-712,K-8800A,K-84000A,k-889A, A6,K-366,K-661,K-662,K-2800 |
| Power Rating | DC 3.0V From Battery |
| Sample ID: | GTS20201103017-1-1-1#(Engineer sample)<br>GTS20201103017-1-1-2#(Normal sample) |
| Operation frequency | 902-928MHz |
| Modulation | FM |
| Antenna Type | Internal antenna |
| Antenna Gain | 0dB(Max) |

## 2.3. Equipment Under Test

### Power supply system utilised

| | | | | | |
|---|---|---|---|---|---|
| Power supply voltage | : | ○ | 230V / 50 Hz | ○ | 120V / 60Hz |
| | | ○ | 12 V DC | ○ | 24 V DC |
| | | ● | Other (specified in blank below) | | |

DC 3.0 V

## 2.4. Short description of the Equipment under Test (EUT)

This is a wireless microphone

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

## 2.5. EUT operation mode

The Applicant use Key to control the EUT for staying in continuous transmitting and receiving mode for testing .There is 100 channels provided to the EUT. Channel Low,Mid and High was selected to test.

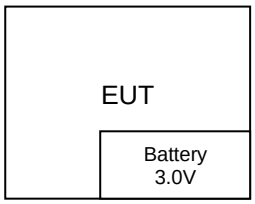
| Channel A | | Channel B | |
|---|---|---|---|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 00 | 902.10 | 00 | 915.10 |

| | | | |
|---|---|---|---|
| 01 | 902.35 | 01 | 915.35 |
| ⋮ | ⋮ | ⋮ | ⋮ |
| 25 | 908.35 | 25 | 921.35 |
| ⋮ | ⋮ | ⋮ | ⋮ |
| 48 | 914.10 | 48 | 927.10 |
| 49 | 914.35 | 49 | 927.35 |

Test frequency:

| Channel A | | Channel B | |
|---|---|---|---|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| Low | 902.10 | Low | 915.10 |
| Mid | 908.35 | Mid | 921.35 |
| High | 914.35 | High | 927.35 |

## 2.6. Block Diagram of Test Setup




## 2.7. Modifications

No modifications were implemented to meet testing criteria.

# 3. TEST ENVIRONMENT

## 3.1. TEST FACILITY

Test Firm : Shenzhen Global Test Service Co., Ltd.

Address No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

## 3.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Radiated Emission:

| | |
|---|---|
| Temperature: | 25 ° C |
| | |
| Humidity: | 45 % |
| | |
| Atmospheric pressure: | 950-1050mbar |

Conducted testing：

| | |
|---|---|
| Temperature: | 25 ° C |
| | |
| Humidity: | 44 % |
| | |
| Atmospheric pressure: | 950-1050mbar |

## 3.3. Summary of measurement results

| **FCC PART 15.249** | | |
|---|---|---|
| FCC Part 15.249(a) | Field Strength of Fundamental | PASS |
| FCC Part 15.209 | Spurious Emission | PASS |
| FCC Part 15.209 | Band edge | PASS |
| FCC Part 15.215(c) | 20dB bandwidth | PASS |
| FCC Part 15.207 | Conducted Emission | N/A |
| FCC Part 15.203 | Antenna Requirement | PASS |

## 3.4. Statement of the measurement uncertainty

Measurement Uncertainty

| | | |
|---|---|---|
| Conducted Emission Expanded Uncertainty | = | 2.23dB, k=2 |
| Radiated emission expanded uncertainty(9kHz-30MHz) | = | 3.08dB, k=2 |
| Radiated emission expanded uncertainty(30MHz-1000MHz) | = | 4.42dB, k=2 |
| Radiated emission expanded uncertainty(Above 1GHz) | = | 4.06dB, k=2 |

## 3.5. Equipments Used during the Test

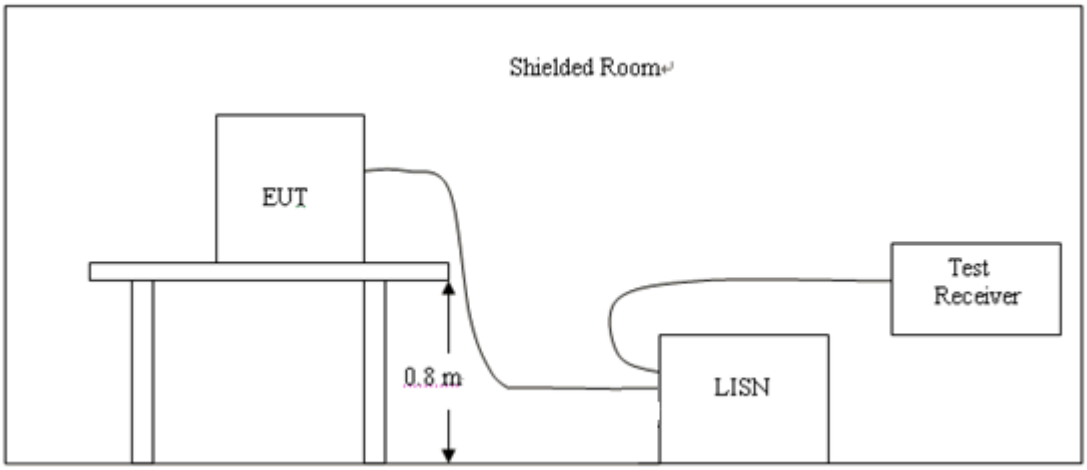
| Test Equipment | Manufacturer | Model No. | Serial No. | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| LISN | R&S | ENV216 | 3560.6550.08 | 2020/09/19 | 2021/09/18 |
| LISN | R&S | ESH2-Z5 | 893606/008 | 2020/09/19 | 2021/09/18 |
| EMI Test Receiver | R&S | ESPI3 | 101841-cd | 2020/09/19 | 2021/09/18 |
| EMI Test Receiver | R&S | ESCI7 | 101102 | 2020/09/19 | 2021/09/18 |
| Spectrum Analyzer | Agilent | N9020A | MY48010425 | 2020/09/19 | 2021/09/18 |
| Spectrum Analyzer | R&S | FSV40 | 100019 | 2020/09/19 | 2021/09/18 |
| Vector Signal generator | Agilent | N5181A | MY49060502 | 2020/09/19 | 2021/09/18 |
| Signal generator | Agilent | E4421B | 3610AO1069 | 2020/09/19 | 2021/09/18 |
| Climate Chamber | ESPEC | EL-10KA | A20120523 | 2020/09/19 | 2021/09/18 |
| Controller | EM Electronics | Controller EM 1000 | N/A | N/A | N/A |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 01622 | 2020/09/19 | 2021/09/18 |
| Active Loop Antenna | Beijing Da Ze Technology Co.,Ltd. | ZN30900C | 15006 | 2020/10/11 | 2021/10/10 |
| Bilog Antenna | Schwarzbeck | VULB9163 | 000976 | 2020/05/26 | 2021/05/25 |
| Broadband Horn Antenna | SCHWARZBECK | BBHA 9170 | 791 | 2020/09/19 | 2021/09/18 |
| Amplifier | Schwarzbeck | BBV 9743 | #202 | 2020/09/19 | 2021/09/18 |
| Amplifier | Schwarzbeck | BBV9179 | 9719-025 | 2020/09/19 | 2021/09/18 |
| Amplifier | EMCI | EMC051845B | 980355 | 2020/09/19 | 2021/09/18 |
| Temperature/Humidity Meter | Gangxing | CTH-608 | 02 | 2020/09/19 | 2021/09/18 |
| High-Pass Filter | K&L | 9SH10-2700/X12750-O/O | KL142031 | 2020/09/19 | 2021/09/18 |
| High-Pass Filter | K&L | 41H10-1375/U12750-O/O | KL142032 | 2020/09/19 | 2021/09/18 |
| RF Cable(below 1GHz) | HUBER+SUHNER | RG214 | RE01 | 2020/09/19 | 2021/09/18 |
| RF Cable(above 1GHz) | HUBER+SUHNER | RG214 | RE02 | 2020/09/19 | 2021/09/18 |
| Data acquisition card | Agilent | U2531A | TW53323507 | 2020/09/19 | 2021/09/18 |
| Power Sensor | Agilent | U2021XA | MY5365004 | 2020/09/19 | 2021/09/18 |
| Test Control Unit | Tonscend | JS0806-1 | 178060067 | 2020/06/19 | 2021/06/18 |
| Automated filter bank | Tonscend | JS0806-F | 19F8060177 | 2020/06/19 | 2021/06/18 |
| EMI Test Software | Tonscend | JS1120-1 | Ver 2.6.8.0518 | / | / |
| EMI Test Software | Tonscend | JS1120-3 | Ver 2.5.77.0418 | / | / |
| EMI Test Software | Tonscend | JS32-CE | Ver 2.5 | / | / |
| EMI Test Software | Tonscend | JS32-RE | Ver 2.5.1.8 | / | / |

Note: The Cal.Interval was one year.

# 4. TEST CONDITIONS AND RESULTS

## 4.1. AC Power Conducted Emission

**TEST CONFIGURATION**




**TEST PROCEDURE**

1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2, Support equipment, if needed, was placed as per ANSI C63.10.
3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5, All support equipments received AC power from a second LISN, if any.
6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

**AC Power Conducted Emission Limit**

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following：

| 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. | | |

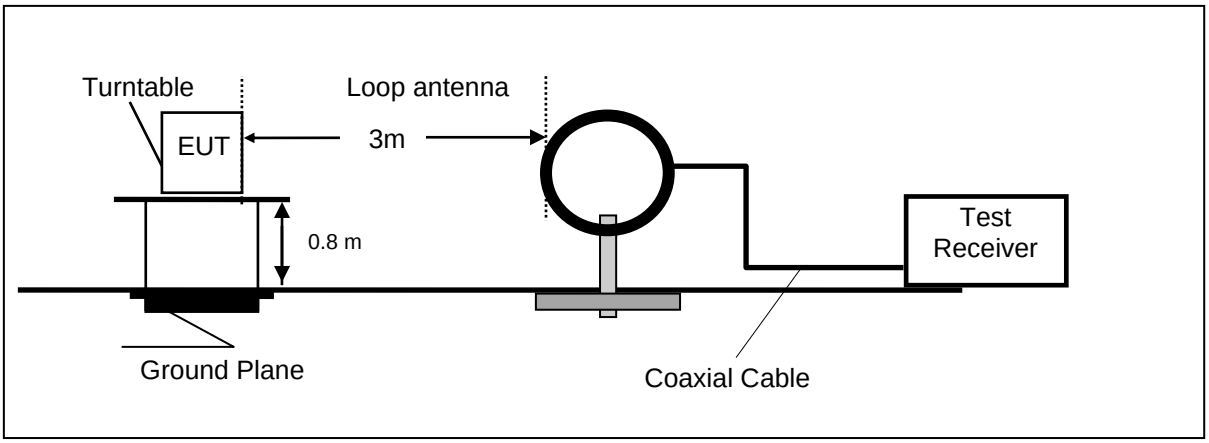
**TEST RESULTS**

The EUT is powered by Battery,So this test item is not applicable for the EUT.

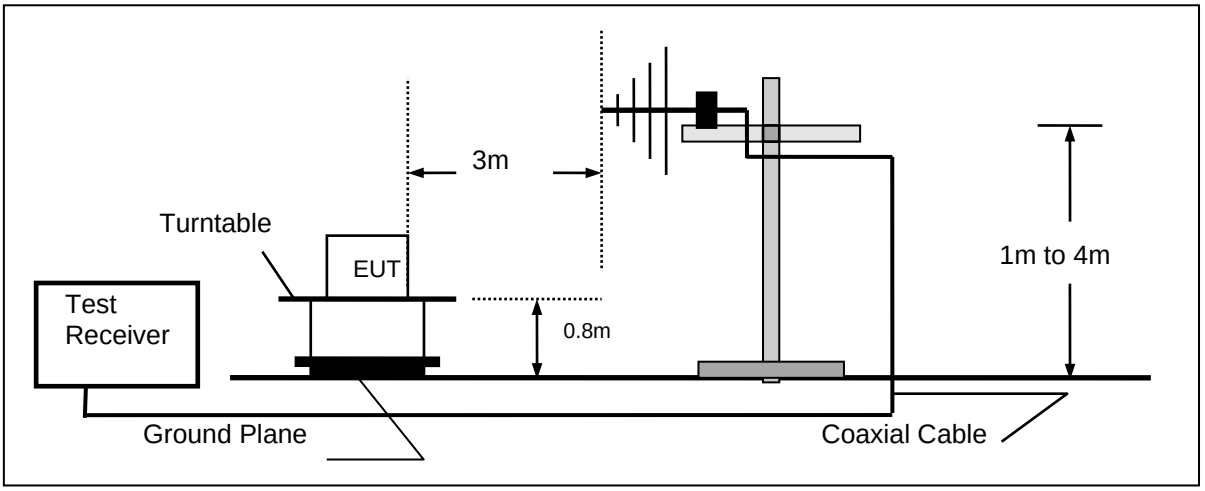
## 4.2. Radiated Emission and Band Edges

**TEST CONFIGURATION**

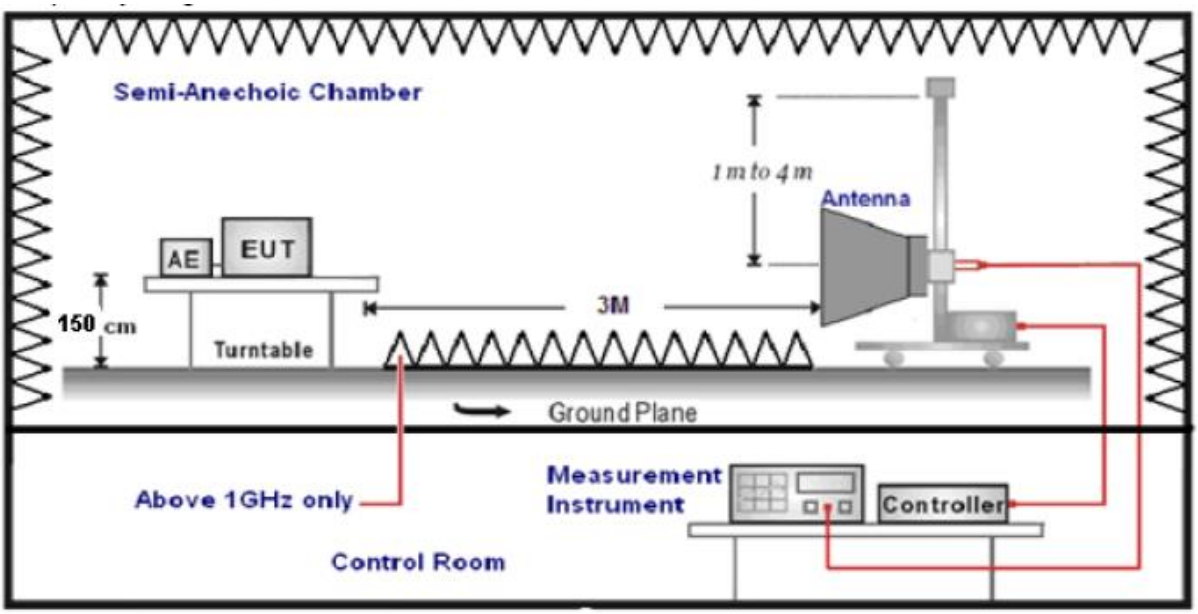
Frequency range 9 KHz – 30MHz




Frequency range 30MHz – 1000MHz




Frequency range above 1GHz-25GHz



**TEST PROCEDURE**

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0℃ to 360℃ to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. The EUT minimum operation frequency was 26MHz and maximum operation frequency was 1910MHz.so radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

| Test Frequency range | Test Antenna Type | Test Distance |
|---|---|---|
| 9KHz-30MHz | Active Loop Antenna | 3 |
| 30MHz-1GHz | Ultra-Broadband Antenna | 3 |
| 1GHz-18GHz | Double Ridged Horn Antenna | 3 |
| 18GHz-25GHz | Horn Anternna | 1 |

7. Setting test receiver/spectrum as following table states:

| Test Frequency range | Test Receiver/Spectrum Setting | Detector |
|---|---|---|
| 9KHz-150KHz | RBW=200Hz/VBW=3KHz,Sweep time=Auto | QP |
| 150KHz-30MHz | RBW=9KHz/VBW=100KHz,Sweep time=Auto | QP |
| 30MHz-1GHz | RBW=120KHz/VBW=1000KHz,Sweep time=Auto | QP |
| 1GHz-40GHz | Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto<br>Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto | Peak |

**Field Strength Calculation**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

**FS = RA + AF + CL - AG**

| | |
|---|---|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude | AG = Amplifier Gain |
| AF = Antenna Factor | |

Transd=AF +CL-AG

**RADIATION LIMIT**

According 15.249, the field strength of emissions from intentional radiators operated within 902MHz-928 MHz shall not exceed 94dBμV/m (50mV/m):

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

| Frequency (MHz) | Distance (Meters) | Radiated (dBμV/m) | Radiated (μV/m) |
|---|---|---|---|
| 0.009-0.49 | 3 | 20log(2400/F(KHz))+40log(300/3) | 2400/F(KHz) |
| 0.49-1.705 | 3 | 20log(24000/F(KHz))+ 40log(30/3) | 24000/F(KHz) |
| 1.705-30 | 3 | 20log(30)+ 40log(30/3) | 30 |
| 30-88 | 3 | 40.0 | 100 |
| 88-216 | 3 | 43.5 | 150 |
| 216-960 | 3 | 46.0 | 200 |
| Above 960 | 3 | 54.0 | 500 |

**TEST RESULTS**

Remark:

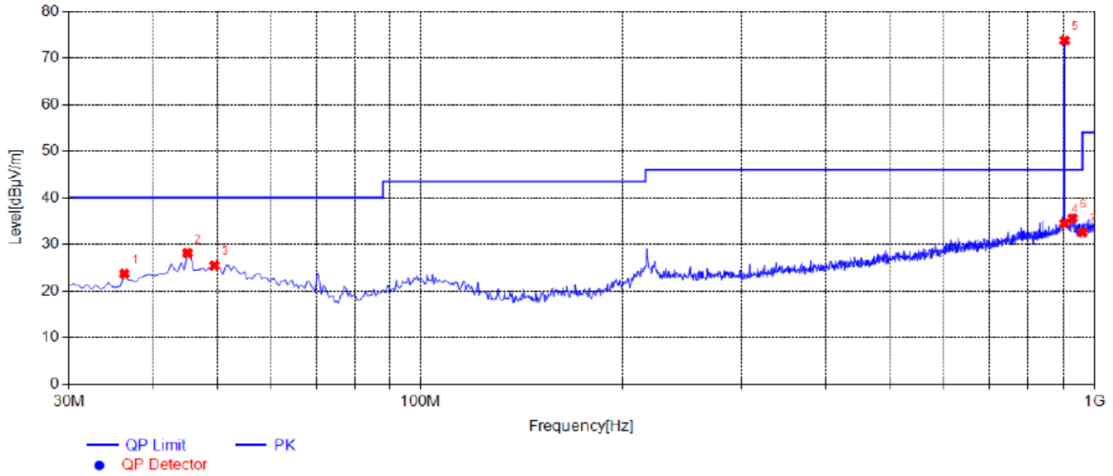
1. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

**For 30MHz-1GHz**

**Channel A**

**Low Channel**

Horizontal



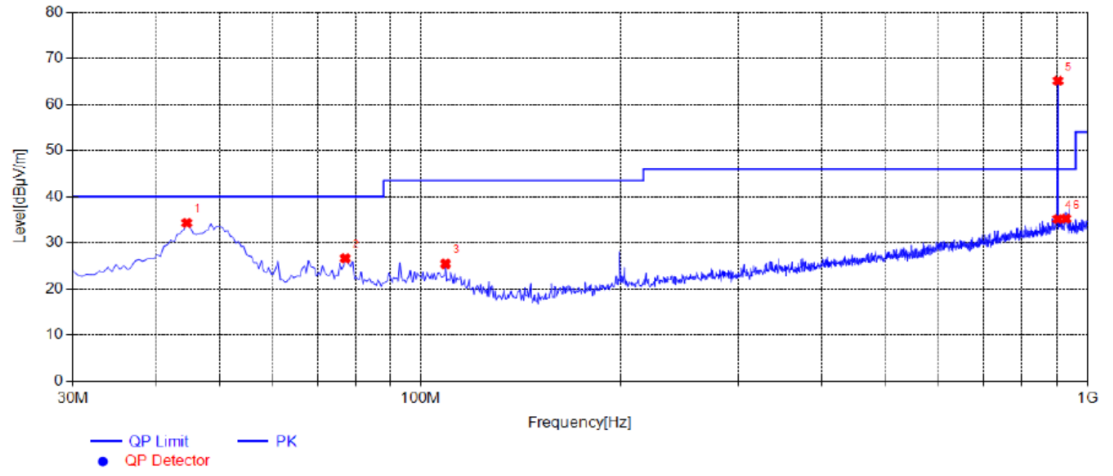

Suspected List

| NO. | Frequency [MHz] | Reading [dBµV/m] | Factor [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Detector | Polarity | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 36.3050 | 32.85 | -9.16 | 23.69 | 40.00 | 16.31 | 100 | 130 | PK | Horizonta | PASS |
| 2 | 45.0350 | 34.65 | -6.51 | 28.14 | 40.00 | 11.86 | 100 | 104 | PK | Horizonta | PASS |
| 3 | 49.4000 | 31.99 | -6.51 | 25.48 | 40.00 | 14.52 | 100 | 28 | PK | Horizonta | PASS |
| 4 | 902.0300 | 30.83 | 3.67 | 34.50 | 46.00 | 11.50 | 100 | 66 | PK | Horizonta | PASS |
| 5 | 902.5150 | 70.09 | 3.66 | 73.75 | 94.00 | 20.25 | 100 | 360 | PK | Horizonta | PASS |
| 6 | 928.2200 | 31.16 | 4.45 | 35.61 | 46.00 | 10.39 | 100 | 35 | PK | Horizonta | PASS |
| 7 | 960.2300 | 30.30 | 2.27 | 32.57 | 54.00 | 21.43 | 100 | 137 | PK | Horizonta | PASS |

Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical




Suspected List

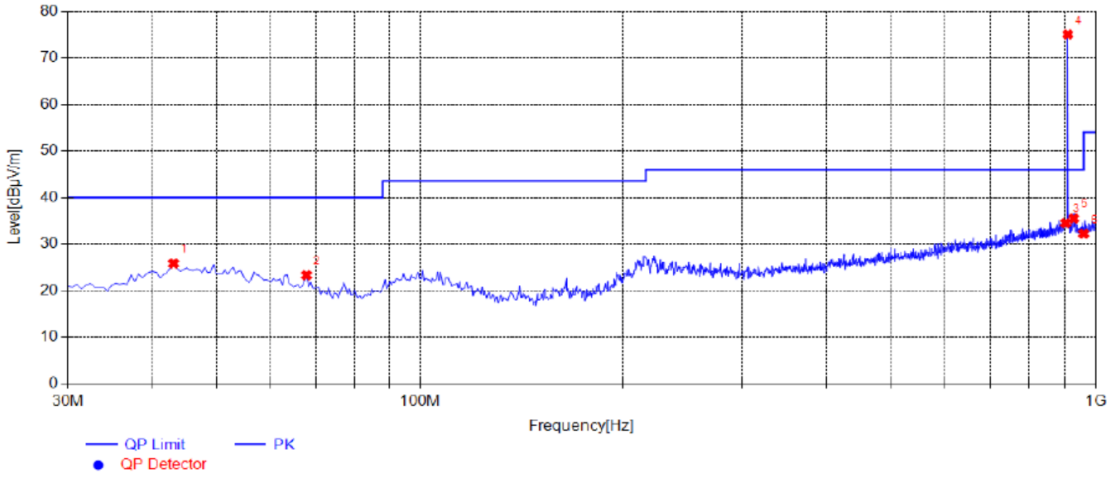
| NO. | Frequency [MHz] | Reading [dBµV/m] | Factor [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Detector | Polarity | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 44.5500 | 40.82 | -6.52 | 34.30 | 40.00 | 5.70 | 100 | 41 | PK | Vertical | PASS |
| 2 | 77.0450 | 36.29 | -9.66 | 26.63 | 40.00 | 13.37 | 100 | 194 | PK | Vertical | PASS |
| 3 | 109.0550 | 34.05 | -8.60 | 25.45 | 43.50 | 18.05 | 100 | 63 | PK | Vertical | PASS |
| 4 | 902.0300 | 31.45 | 3.67 | 35.12 | 46.00 | 10.88 | 100 | 352 | PK | Vertical | PASS |
| 5 | 902.5150 | 61.48 | 3.66 | 65.14 | 94.00 | 28.86 | 100 | 251 | PK | Vertical | PASS |
| 6 | 928.2200 | 30.77 | 4.45 | 35.22 | 46.00 | 10.78 | 100 | 56 | PK | Vertical | PASS |

Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

**Mid Channel**

Horizontal



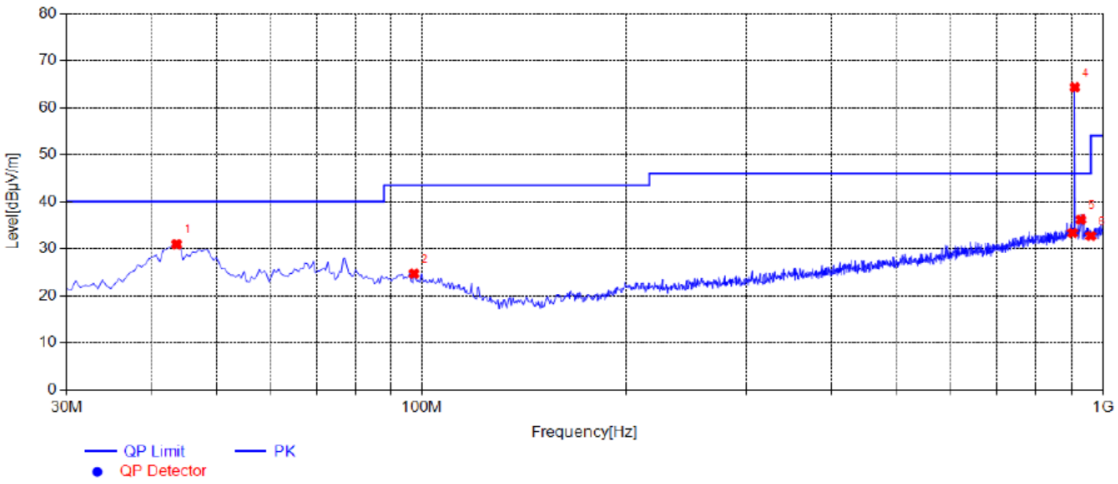

Suspected List

| NO. | Frequency [MHz] | Reading [dBµV/m] | Factor [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Detector | Polarity | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 43.0950 | 32.36 | -6.56 | 25.80 | 40.00 | 14.20 | 100 | 113 | PK | Horizonta | PASS |
| 2 | 67.8300 | 32.66 | -9.34 | 23.32 | 40.00 | 16.68 | 100 | 308 | PK | Horizonta | PASS |
| 3 | 902.0300 | 30.86 | 3.67 | 34.53 | 46.00 | 11.47 | 100 | 42 | PK | Horizonta | PASS |
| 4 | 908.8200 | 71.48 | 3.54 | 75.02 | 94.00 | 18.98 | 100 | 317 | PK | Horizonta | PASS |
| 5 | 928.2200 | 31.04 | 4.45 | 35.49 | 46.00 | 10.51 | 100 | 185 | PK | Horizonta | PASS |
| 6 | 960.2300 | 29.94 | 2.27 | 32.21 | 54.00 | 21.79 | 100 | 295 | PK | Horizonta | PASS |

Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical




Suspected List

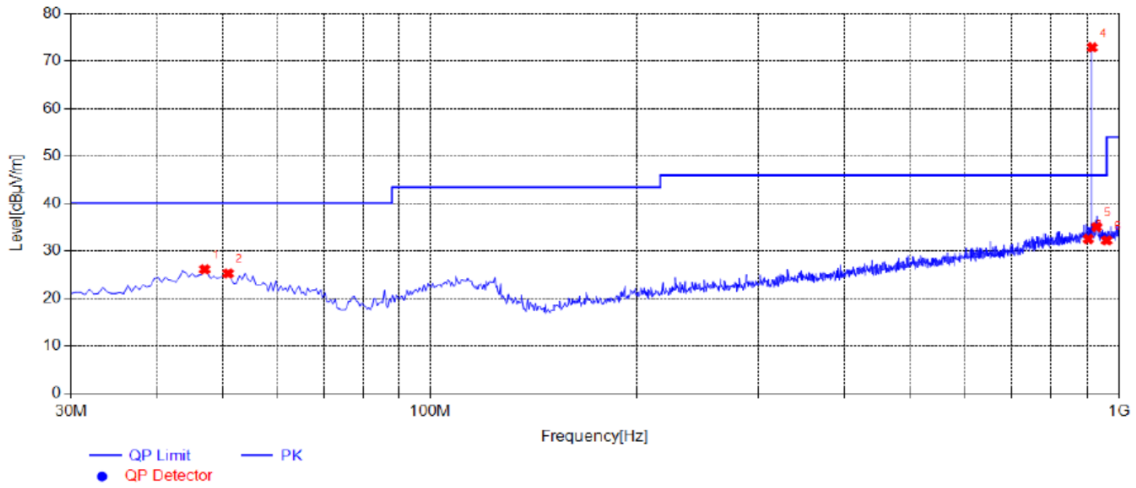
| NO. | Frequency [MHz] | Reading [dBµV/m] | Factor [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Detector | Polarity | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 43.5800 | 37.51 | -6.55 | 30.96 | 40.00 | 9.04 | 100 | 175 | PK | Vertical | PASS |
| 2 | 97.4150 | 33.55 | -8.85 | 24.70 | 43.50 | 18.80 | 100 | 67 | PK | Vertical | PASS |
| 3 | 902.0300 | 29.67 | 3.67 | 33.34 | 46.00 | 12.66 | 100 | 159 | PK | Vertical | PASS |
| 4 | 908.8200 | 60.79 | 3.54 | 64.33 | 94.00 | 29.67 | 100 | 236 | PK | Vertical | PASS |
| 5 | 928.2200 | 31.72 | 4.45 | 36.17 | 46.00 | 9.83 | 100 | 298 | PK | Vertical | PASS |
| 6 | 960.2300 | 30.45 | 2.27 | 32.72 | 54.00 | 21.28 | 100 | 352 | PK | Vertical | PASS |

Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

**High Channel**

Horizontal

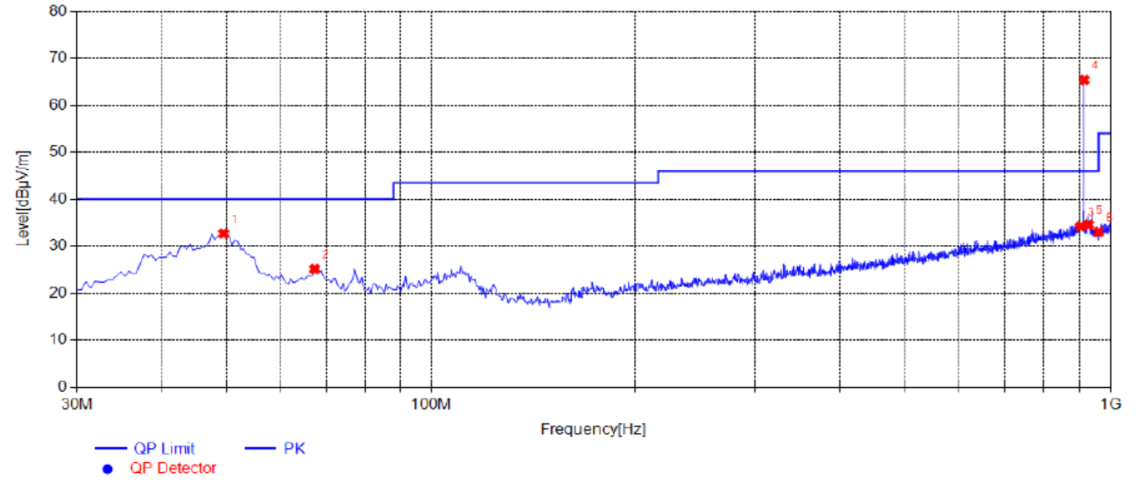



| Suspected List | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV/m] | Factor [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Detector | Polarity | Remark |
| 1 | 46.9750 | 32.62 | -6.52 | 26.10 | 40.00 | 13.90 | 100 | 337 | PK | Horizonta | PASS |
| 2 | 50.8550 | 31.92 | -6.68 | 25.24 | 40.00 | 14.76 | 100 | 113 | PK | Horizonta | PASS |
| 3 | 902.0300 | 28.82 | 3.67 | 32.49 | 46.00 | 13.51 | 100 | 2 | PK | Horizonta | PASS |
| 4 | 914.6400 | 69.53 | 3.34 | 72.87 | 94.00 | 21.13 | 100 | 91 | PK | Horizonta | PASS |
| 5 | 928.2200 | 30.56 | 4.45 | 35.01 | 46.00 | 10.99 | 100 | 190 | PK | Horizonta | PASS |
| 6 | 960.2300 | 29.92 | 2.27 | 32.19 | 54.00 | 21.81 | 100 | 173 | PK | Horizonta | PASS |

Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical




| Suspected List | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV/m] | Factor [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Detector | Polarity | Remark |
| 1 | 49.4000 | 39.22 | -6.51 | 32.71 | 40.00 | 7.29 | 100 | 93 | PK | Vertical | PASS |
| 2 | 67.3450 | 34.57 | -9.39 | 25.18 | 40.00 | 14.82 | 100 | 115 | PK | Vertical | PASS |
| 3 | 902.0300 | 30.51 | 3.67 | 34.18 | 46.00 | 11.82 | 100 | 273 | PK | Vertical | PASS |
| 4 | 914.6400 | 62.04 | 3.34 | 65.38 | 94.00 | 28.62 | 100 | 115 | PK | Vertical | PASS |
| 5 | 928.2200 | 30.12 | 4.45 | 34.57 | 46.00 | 11.43 | 100 | 117 | PK | Vertical | PASS |
| 6 | 960.2300 | 30.77 | 2.27 | 33.04 | 54.00 | 20.96 | 100 | 224 | PK | Vertical | PASS |

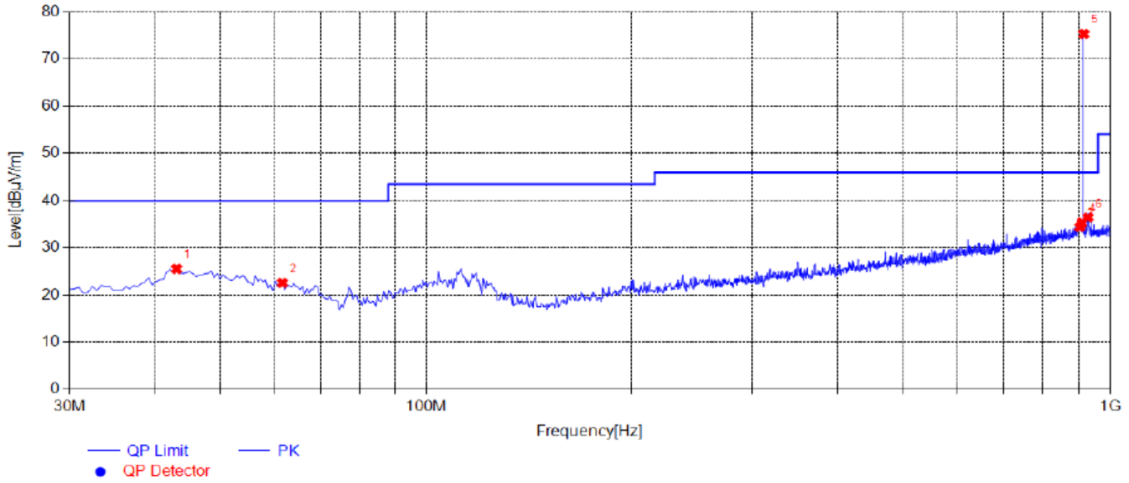
Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

**Channel B**

**Low Channel**

Horizontal



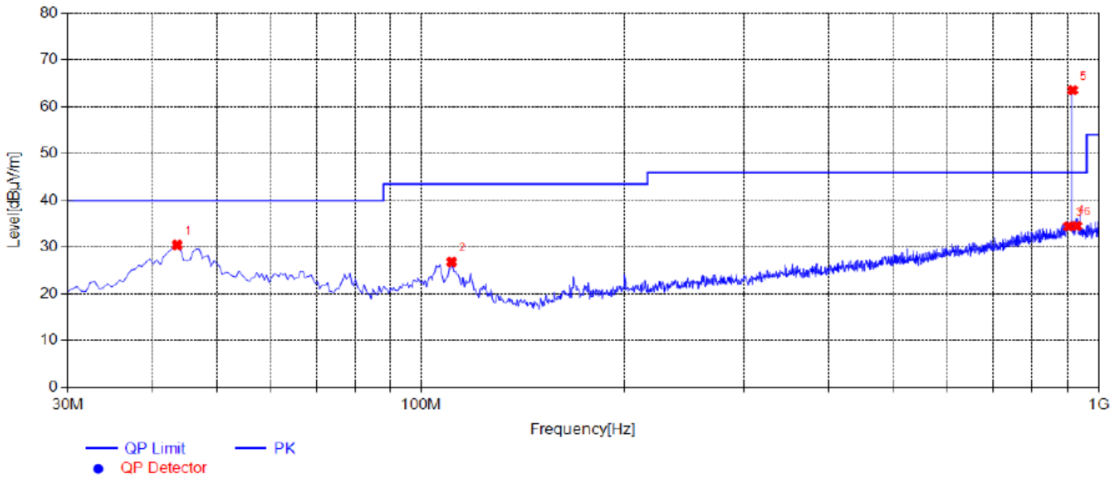

Suspected List

| NO. | Frequency [MHz] | Reading [dBµV/m] | Factor [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Detector | Polarity | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 43.0950 | 32.10 | -6.56 | 25.54 | 40.00 | 14.46 | 100 | 341 | PK | Horizonta | PASS |
| 2 | 61.5250 | 31.38 | -8.76 | 22.62 | 40.00 | 17.38 | 100 | 292 | PK | Horizonta | PASS |
| 3 | 902.0300 | 30.73 | 3.67 | 34.40 | 46.00 | 11.60 | 100 | 339 | PK | Horizonta | PASS |
| 4 | 908.3350 | 31.77 | 3.55 | 35.32 | 46.00 | 10.68 | 100 | 275 | PK | Horizonta | PASS |
| 5 | 915.1250 | 71.97 | 3.31 | 75.28 | 94.00 | 18.72 | 100 | 85 | PK | Horizonta | PASS |
| 6 | 928.2200 | 32.02 | 4.45 | 36.47 | 46.00 | 9.53 | 100 | 148 | PK | Horizonta | PASS |

Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical




Suspected List

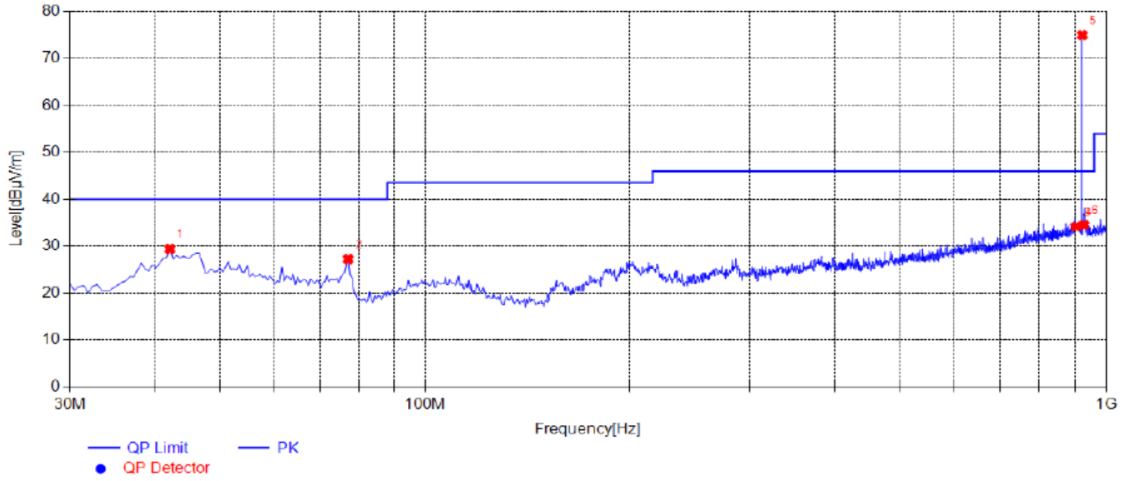
| NO. | Frequency [MHz] | Reading [dBµV/m] | Factor [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Detector | Polarity | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 43.5800 | 37.06 | -6.55 | 30.51 | 40.00 | 9.49 | 100 | 21 | PK | Vertical | PASS |
| 2 | 110.9950 | 35.57 | -8.73 | 26.84 | 43.50 | 16.66 | 100 | 58 | PK | Vertical | PASS |
| 3 | 902.0300 | 30.82 | 3.67 | 34.49 | 46.00 | 11.51 | 100 | 185 | PK | Vertical | PASS |
| 4 | 908.3350 | 31.37 | 3.55 | 34.92 | 46.00 | 11.08 | 100 | 360 | PK | Vertical | PASS |
| 5 | 915.1250 | 60.21 | 3.31 | 63.52 | 94.00 | 30.48 | 100 | 190 | PK | Vertical | PASS |
| 6 | 928.2200 | 30.13 | 4.45 | 34.58 | 46.00 | 11.42 | 100 | 310 | PK | Vertical | PASS |

Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

**Mid Channel**

Horizontal



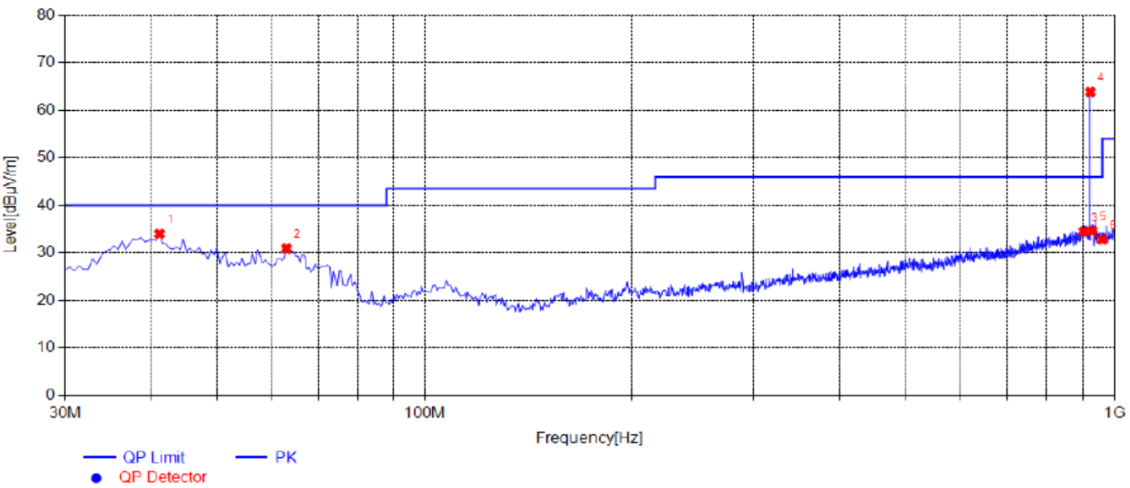

Suspected List

| NO. | Frequency [MHz] | Reading [dBµV/m] | Factor [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Detector | Polarity | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 42.1250 | 36.17 | -6.76 | 29.41 | 40.00 | 10.59 | 100 | 301 | PK | Horizonta | PASS |
| 2 | 77.0450 | 36.87 | -9.66 | 27.21 | 40.00 | 12.79 | 100 | 4 | PK | Horizonta | PASS |
| 3 | 902.0300 | 30.51 | 3.67 | 34.18 | 46.00 | 11.82 | 100 | 93 | PK | Horizonta | PASS |
| 4 | 908.3350 | 30.72 | 3.55 | 34.27 | 46.00 | 11.73 | 100 | 185 | PK | Horizonta | PASS |
| 5 | 921.4300 | 72.37 | 2.56 | 74.93 | 94.00 | 19.07 | 100 | 170 | PK | Horizonta | PASS |
| 6 | 928.2200 | 30.06 | 4.45 | 34.51 | 46.00 | 11.49 | 100 | 242 | PK | Horizonta | PASS |

Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical




Suspected List

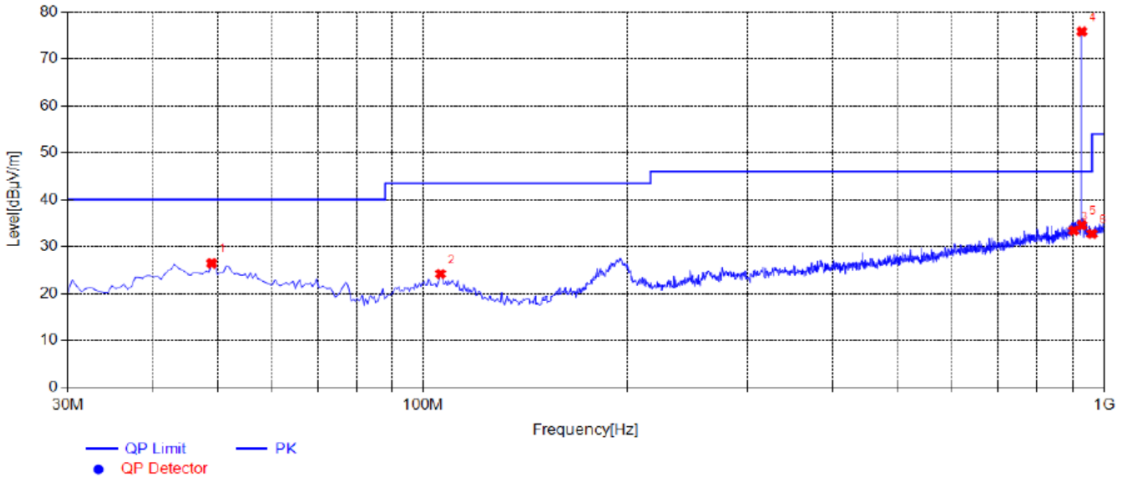
| NO. | Frequency [MHz] | Reading [dBµV/m] | Factor [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Detector | Polarity | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 41.1550 | 41.11 | -7.15 | 33.96 | 40.00 | 6.04 | 100 | 348 | PK | Vertical | PASS |
| 2 | 62.9800 | 39.85 | -8.94 | 30.91 | 40.00 | 9.09 | 100 | 293 | PK | Vertical | PASS |
| 3 | 902.0300 | 30.80 | 3.67 | 34.47 | 46.00 | 11.53 | 100 | 86 | PK | Vertical | PASS |
| 4 | 921.4300 | 61.26 | 2.56 | 63.82 | 94.00 | 30.18 | 100 | 188 | PK | Vertical | PASS |
| 5 | 928.2200 | 30.14 | 4.45 | 34.59 | 46.00 | 11.41 | 100 | 304 | PK | Vertical | PASS |
| 6 | 960.2300 | 30.50 | 2.27 | 32.77 | 54.00 | 21.23 | 100 | 44 | PK | Vertical | PASS |

Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

**High Channel**

Horizontal



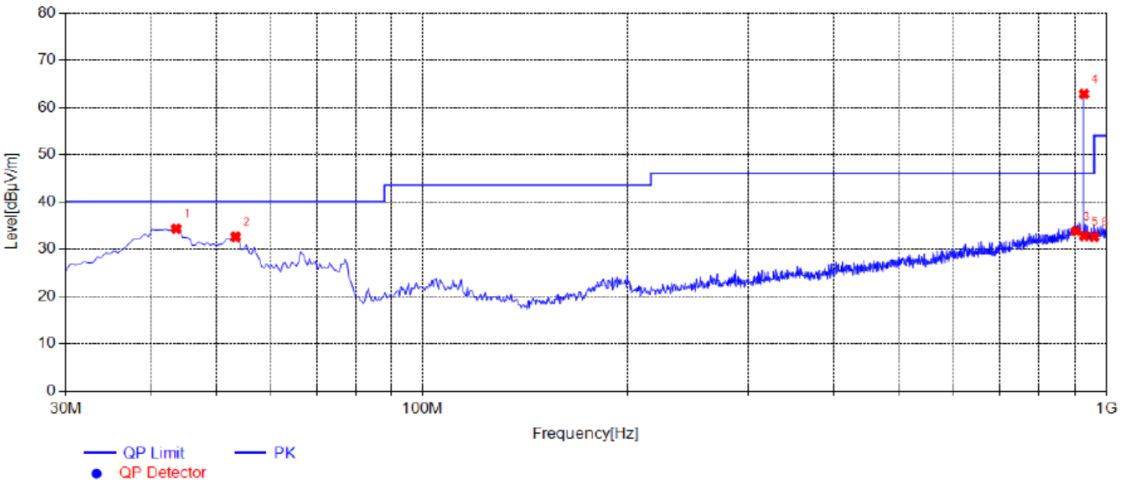

Suspected List

| NO. | Frequency [MHz] | Reading [dBµV/m] | Factor [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Detector | Polarity | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 48.9150 | 32.91 | -6.45 | 26.46 | 40.00 | 13.54 | 100 | 44 | PK | Horizonta | PASS |
| 2 | 106.1450 | 32.19 | -8.00 | 24.19 | 43.50 | 19.31 | 100 | 284 | PK | Horizonta | PASS |
| 3 | 902.0300 | 29.74 | 3.67 | 33.41 | 46.00 | 12.59 | 100 | 241 | PK | Horizonta | PASS |
| 4 | 927.7350 | 71.66 | 4.17 | 75.83 | 94.00 | 18.17 | 100 | 326 | PK | Horizonta | PASS |
| 5 | 928.2200 | 30.13 | 4.45 | 34.58 | 46.00 | 11.42 | 100 | 32 | PK | Horizonta | PASS |
| 6 | 960.2300 | 30.46 | 2.27 | 32.73 | 54.00 | 21.27 | 100 | 319 | PK | Horizonta | PASS |

Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical




Suspected List

| NO. | Frequency [MHz] | Reading [dBµV/m] | Factor [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Detector | Polarity | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 43.5800 | 40.88 | -6.55 | 34.33 | 40.00 | 5.67 | 100 | 38 | PK | Vertical | PASS |
| 2 | 53.2800 | 39.44 | -6.86 | 32.58 | 40.00 | 7.42 | 100 | 110 | PK | Vertical | PASS |
| 3 | 902.0300 | 30.14 | 3.67 | 33.81 | 46.00 | 12.19 | 100 | 204 | PK | Vertical | PASS |
| 4 | 927.7350 | 58.72 | 4.17 | 62.89 | 94.00 | 31.11 | 100 | 272 | PK | Vertical | PASS |
| 5 | 928.2200 | 28.28 | 4.45 | 32.73 | 46.00 | 13.27 | 100 | 76 | PK | Vertical | PASS |
| 6 | 960.2300 | 30.31 | 2.27 | 32.58 | 54.00 | 21.42 | 100 | 283 | PK | Vertical | PASS |

Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

**For 1GHz to 25GHz**
**Chanel A**
**Low Channel**

Horizontal:

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|
| 1240 | 58.46 | -9.1 | 49.36 | 74 | -24.64 | peak |
| 1240 | 43.63 | -9.1 | 34.53 | 54 | -19.47 | AVG |
| 1804.2 | 61.98 | -8.75 | 53.23 | 74 | -20.77 | peak |
| 1804.2 | 48.12 | -8.75 | 39.37 | 54 | -14.63 | AVG |
| 2706.3 | 57.07 | -4.03 | 53.04 | 74 | -20.96 | peak |
| 2706.3 | 44.33 | -4.03 | 40.3 | 54 | -13.7 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

Vertical:

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|
| 1240 | 59.56 | -9.1 | 50.46 | 74 | -23.54 | peak |
| 1240 | 44.69 | -9.1 | 35.59 | 54 | -18.41 | AVG |
| 1804.2 | 63.18 | -8.75 | 54.43 | 74 | -19.57 | peak |
| 1804.2 | 46.37 | -8.75 | 37.62 | 54 | -16.38 | AVG |
| 2706.3 | 58.28 | -4.03 | 54.25 | 74 | -19.75 | peak |
| 2706.3 | 43.08 | -4.03 | 39.05 | 54 | -14.95 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

**Mid Channel**

Horizontal:

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|
| 1240 | 58.42 | -9.08 | 49.34 | 74 | -24.66 | peak |
| 1240 | 43.63 | -9.08 | 34.55 | 54 | -19.45 | AVG |
| 1816.7 | 62.72 | -8.79 | 53.93 | 74 | -20.07 | peak |
| 1816.7 | 47.58 | -8.79 | 38.79 | 54 | -15.21 | AVG |
| 2725.05 | 56.89 | -4.05 | 52.84 | 74 | -21.16 | peak |
| 2725.05 | 45.01 | -4.05 | 40.96 | 54 | -13.04 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

Vertical:

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|
| 1240 | 59.29 | -9.08 | 50.21 | 74 | -23.79 | peak |
| 1240 | 44.35 | -9.08 | 35.27 | 54 | -18.73 | AVG |
| 1816.7 | 62.89 | -8.79 | 54.1 | 74 | -19.9 | peak |
| 1816.7 | 45.85 | -8.79 | 37.06 | 54 | -16.94 | AVG |
| 2725.05 | 59.28 | -4.05 | 55.23 | 74 | -18.77 | peak |
| 2725.05 | 42.98 | -4.05 | 38.93 | 54 | -15.07 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

**High Channel**

Horizontal:

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|
| 1240 | 58.49 | -9.08 | 49.41 | 74 | -24.59 | peak |
| 1240 | 43.63 | -9.08 | 34.55 | 54 | -19.45 | AVG |
| 1828.7 | 62.71 | -8.79 | 53.92 | 74 | -20.08 | peak |
| 1828.7 | 47.57 | -8.79 | 38.78 | 54 | -15.22 | AVG |
| 2743.05 | 57.33 | -4.05 | 53.28 | 74 | -20.72 | peak |
| 2743.05 | 44.42 | -4.05 | 40.37 | 54 | -13.63 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

Vertical:

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|
| 1240 | 59.45 | -9.08 | 50.37 | 74 | -23.63 | peak |
| 1240 | 44.63 | -9.08 | 35.55 | 54 | -18.45 | AVG |
| 1828.7 | 62.96 | -8.79 | 54.17 | 74 | -19.83 | peak |
| 1828.7 | 46.52 | -8.79 | 37.73 | 54 | -16.27 | AVG |
| 2743.05 | 58.63 | -4.05 | 54.58 | 74 | -19.42 | peak |
| 2743.05 | 44.08 | -4.05 | 40.03 | 54 | -13.97 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

**Chanel B**
**Low Channel**

Horizontal:

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|
| 1240 | 59.85 | -9.08 | 50.77 | 74 | -23.23 | peak |
| 1240 | 43.96 | -9.08 | 34.88 | 54 | -19.12 | AVG |
| 1830.2 | 63.17 | -8.79 | 54.38 | 74 | -19.62 | peak |
| 1830.2 | 47.68 | -8.79 | 38.89 | 54 | -15.11 | AVG |
| 2745.3 | 57.35 | -4.05 | 53.3 | 74 | -20.7 | peak |
| 2745.3 | 44.72 | -4.05 | 40.67 | 54 | -13.33 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

Vertical:

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|
| 1240 | 58.56 | -9.08 | 49.48 | 74 | -24.52 | peak |
| 1240 | 44.36 | -9.08 | 35.28 | 54 | -18.72 | AVG |
| 1830.2 | 62.71 | -8.79 | 53.92 | 74 | -20.08 | peak |
| 1830.2 | 45.86 | -8.79 | 37.07 | 54 | -16.93 | AVG |
| 2745.3 | 58.63 | -4.05 | 54.58 | 74 | -19.42 | peak |
| 2745.3 | 43.82 | -4.05 | 39.77 | 54 | -14.23 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

**Mid Channel**

Horizontal:

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|
| 1240 | 57.98 | -9.08 | 48.9 | 74 | -25.1 | peak |
| 1240 | 44.06 | -9.08 | 34.98 | 54 | -19.02 | AVG |
| 1842.7 | 62.33 | -8.79 | 53.54 | 74 | -20.46 | peak |
| 1842.7 | 48.1 | -8.79 | 39.31 | 54 | -14.69 | AVG |
| 2764.05 | 58.06 | -4.05 | 54.01 | 74 | -19.99 | peak |
| 2764.05 | 44.19 | -4.05 | 40.14 | 54 | -13.86 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

Vertical:

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|
| 1240 | 59.56 | -9.08 | 50.48 | 74 | -23.52 | peak |
| 1240 | 44.87 | -9.08 | 35.79 | 54 | -18.21 | AVG |
| 1842.7 | 63.42 | -8.79 | 54.63 | 74 | -19.37 | peak |
| 1842.7 | 45.68 | -8.79 | 36.89 | 54 | -17.11 | AVG |
| 2764.05 | 58.27 | -4.05 | 54.22 | 74 | -19.78 | peak |
| 2764.05 | 44.08 | -4.05 | 40.03 | 54 | -13.97 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

**High Channel**

Horizontal:

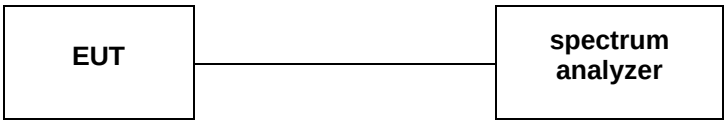
| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|
| 1240 | 58.85 | -9.06 | 49.79 | 74 | -24.21 | peak |
| 1240 | 43.63 | -9.06 | 34.57 | 54 | -19.43 | AVG |
| 1854.7 | 62.79 | -8.75 | 54.04 | 74 | -19.96 | peak |
| 1854.7 | 47.58 | -8.75 | 38.83 | 54 | -15.17 | AVG |
| 2782.05 | 58.21 | -4.03 | 54.18 | 74 | -19.82 | peak |
| 2782.05 | 44.87 | -4.03 | 40.84 | 54 | -13.16 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

Vertical:

| Frequency (MHz) | Meter Reading (dBμV) | Factor (dB) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|
| 1240 | 60.52 | -9.06 | 51.46 | 74 | -22.54 | peak |
| 1240 | 44.75 | -9.06 | 35.69 | 54 | -18.31 | AVG |
| 1854.7 | 63.81 | -8.75 | 55.06 | 74 | -18.94 | peak |
| 1854.7 | 45.26 | -8.75 | 36.51 | 54 | -17.49 | AVG |
| 2782.05 | 59.07 | -4.03 | 55.04 | 74 | -18.96 | peak |
| 2782.05 | 43.48 | -4.03 | 39.45 | 54 | -14.55 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

## 4.3. 20dB Bandwidth Measurement

**TEST CONFIGURATION**




**TEST PROCEDURE**

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30KHz RBW and 300KHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

**LIMIT**

N/A

**TEST RESULTS**

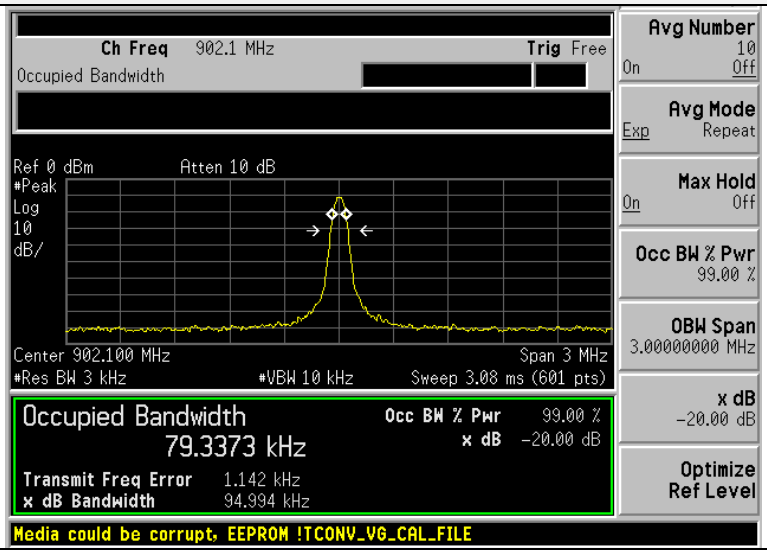
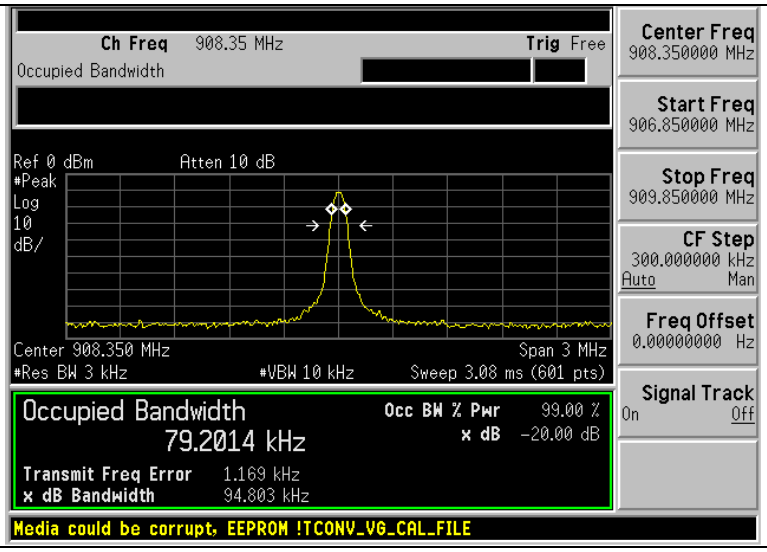
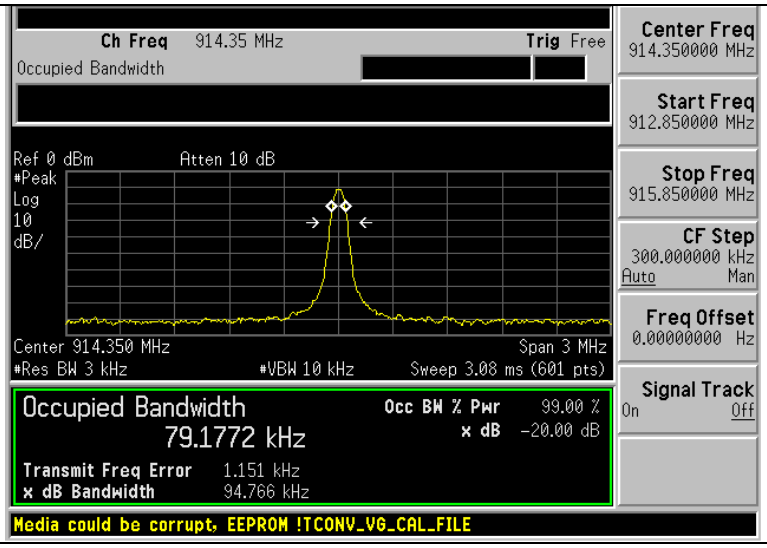
Channel A

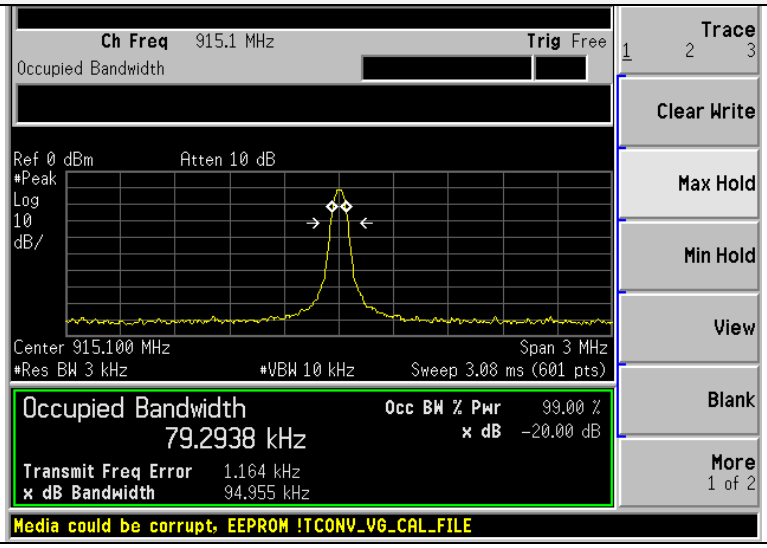
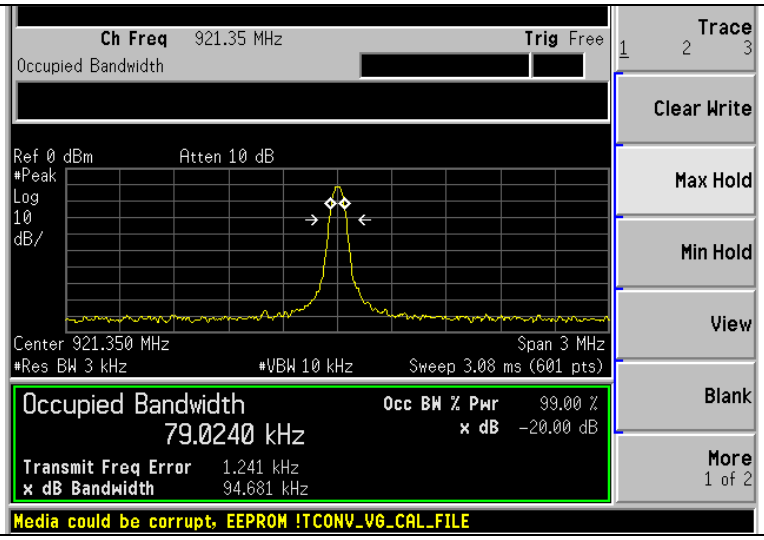
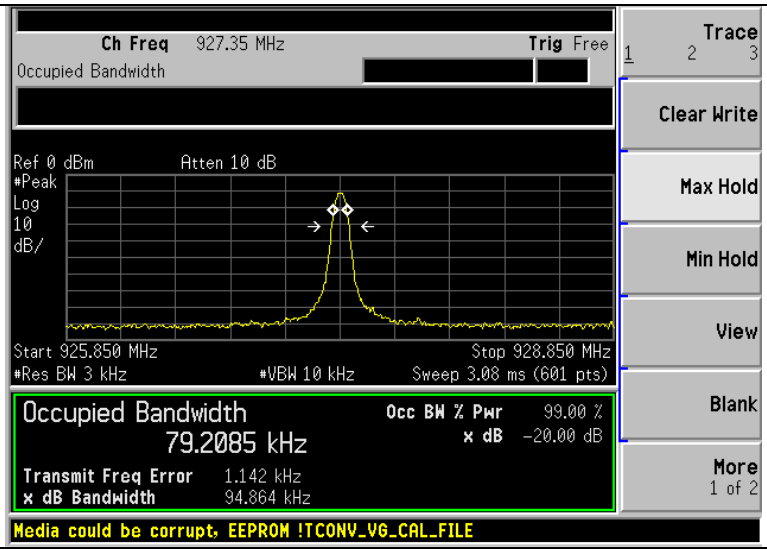
| Modulation | Channel | 20dB bandwidth (kHz) | Result |
|---|---|---|---|
| FM | CH00 | 94.994 | Pass |
| | CH25 | 94.803 | |
| | CH49 | 94.766 | |

Channel B

| Modulation | Channel | 20dB bandwidth (kHz) | Result |
|---|---|---|---|
| FM | CH00 | 94.955 | Pass |
| | CH25 | 94.681 | |
| | CH49 | 94.864 | |

Note: 1.The test results including the cable lose.

| *Channel A* |
|---|
|  |
| *CH00* |
|  |
| *CH25* |
|  |
| *CH49* |

| *Channel B* |
| --- |
|  |
| *CH00* |
|  |
| *CH25* |
|  |
| *CH49* |

## 4.4. Antenna Requirement

**Standard Applicable**

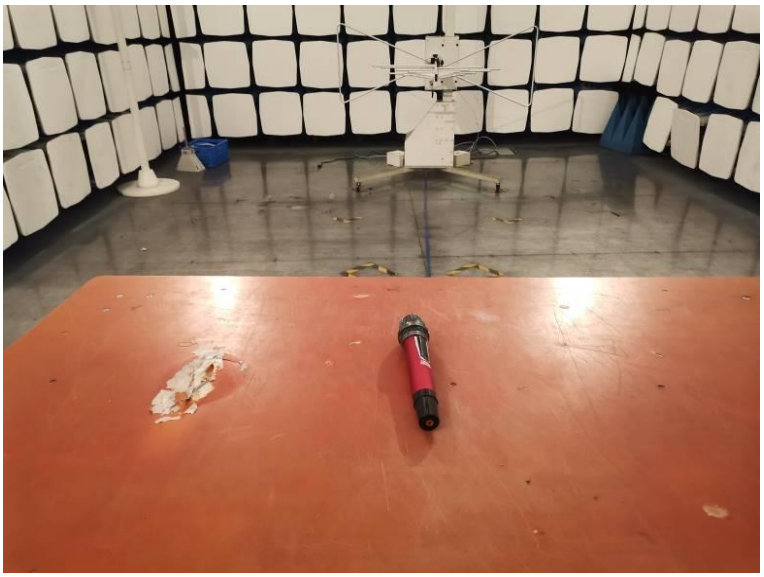
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

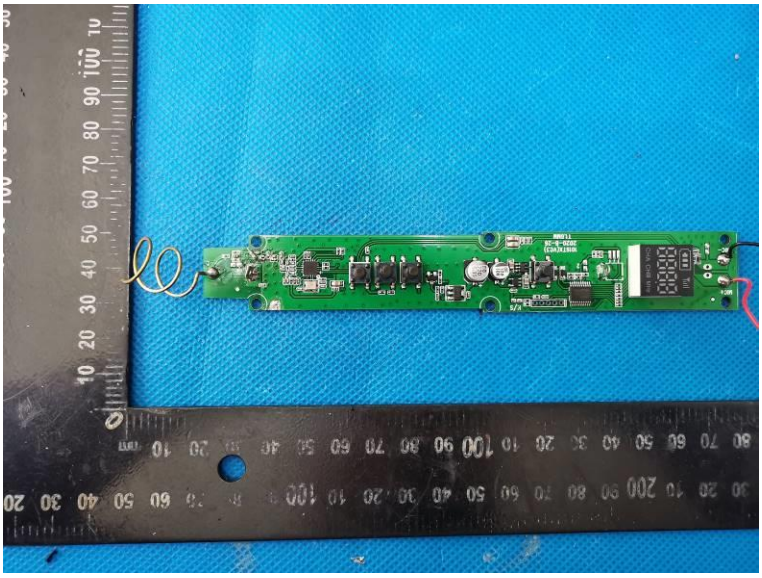
**Antenna Information**

The directional gains of antenna used for transmitting is 0.00 dBi.

# 5. Test Setup Photos of the EUT



# 6. Test Photos of the EUT



**.....End of Report.....**