

# FCC Verification Test Report

**For**

**Chengdu XGimi Technology Co.,Ltd.**

EUT Name: LED Projector

Model No: XE10F

Brand Name: XGIMI

Prepared By:

DongGuan NTEK Testing Technology Co., Ltd.

Add: 5/F, Building 11, Creative Industry Center Park, No. 34 Guantai Road,

Guancheng District, Dong Guan, 523000, P.R.China

Date of Receipt: Sep 25, 2015

Date of Test: Sep 26~ Oct 07,2015

Date of Issue: Oct 07, 2015

Test Result: Pass

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of DongGuan NTEK Testing Technology Co., Ltd.

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# Verification of Compliance

## Client Information:

Applicant: Chengdu XGimi Technology Co.,Ltd.

Applicant add.: 5F,Building A7,Tianfu Software Park, Tianfu Avenue,Hi-tech Zone,Chengdu,China.

## EUT Information:

EUT Name : LED Projector

Model No.: XE10F

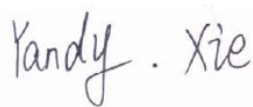
Derivative model: Refer to page 5

Brand Name: XGIMI

## Test procedure used: FCC Part 15 Subpart B Class B

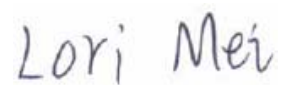
This device described above has been tested by DongGuan NTEK Testing Technology Co., Ltd.and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Reviewed by:



Yandy Xie

Approved by:



Lori Mei

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## 2 Test Summary

| Test                                                 | Test Requirement      | Test Method                               | Criterion | Result |
|------------------------------------------------------|-----------------------|-------------------------------------------|-----------|--------|
| Mains Terminals Disturbance Voltage, 150kHz to 30MHz | FCC Part 15 Subpart B | FCC Part 15 Subpart B<br>ANSI C63.4: 2009 | Limits    | PASS   |
| Radiated Emissions 30MHz to 1GHz                     | FCC Part 15 Subpart B | FCC Part 15 Subpart B<br>ANSI C63.4: 2009 | Limits    | PASS   |
| Radiated Emission above 1 GHz                        | FCC Part 15 Subpart B | FCC Part 15 Subpart B<br>ANSI C63.4: 2009 | Limits    | PASS   |

**Remark:** None.

### Model description:

According to the declaration of the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference being the model names.

Therefore only one model XE10F was tested in this report.

### 2.1 Measurement Uncertainty

The report uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty Multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95% .

| No. | Item                              | Frequency Range | U , Value |
|-----|-----------------------------------|-----------------|-----------|
| 1   | Power Vertical Conducted Emission | 150KHz~30MHz    | 1.20 dB   |
| 2   | Radiated Emission Test            | 30MHz~1GHz      | 3.30 dB   |
| 3   | Radiated Emission Test            | 1GHz~18GHz      | 3.30 dB   |

### 3 General Information

#### 3.1 General Description of EUT

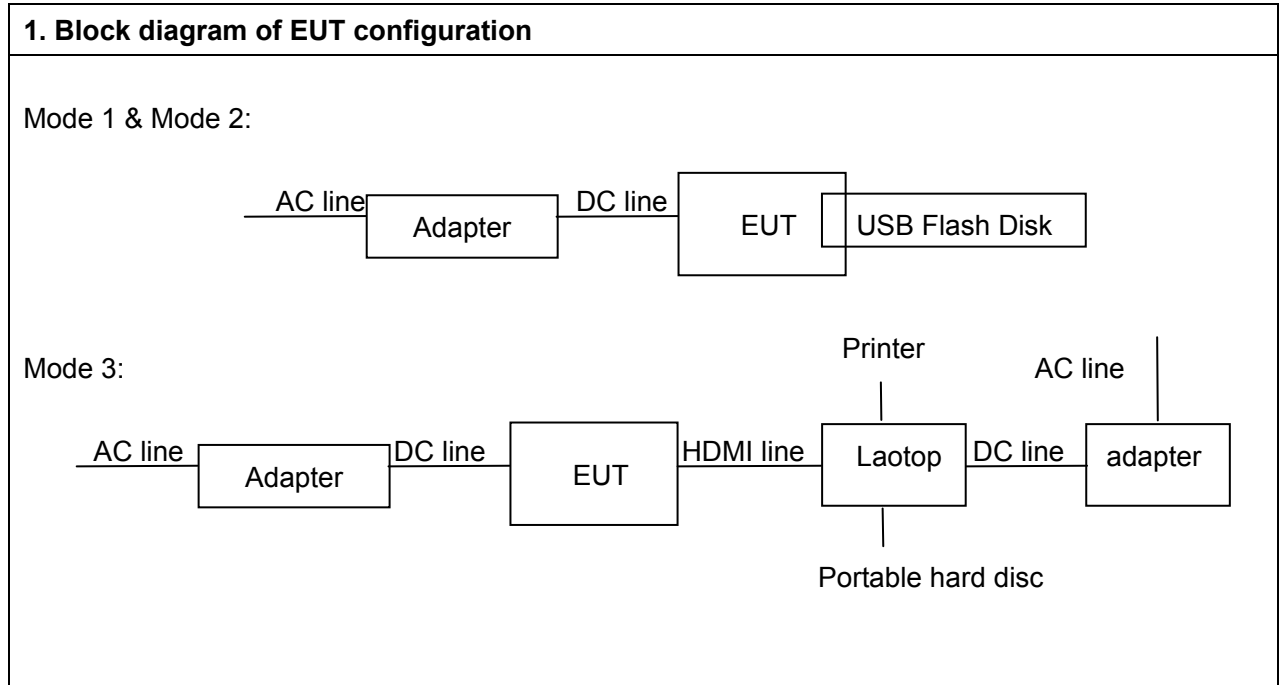
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer:         | (1) Fujian Ruichi electronic technology CO., LTD.<br>(2) TCL King electrical appliances (Chengdu) CO., LTD.                                                                                                                                                                                                                                                                                                                 |
| Manufacturer Address: | (1) No. C-09 land of the first planning about special automobile foundation in Quanzhou city of China.<br>(2) Chengdu high-tech industrial development zone (west park), Chengdu, Sichuan, China                                                                                                                                                                                                                            |
| EUT Name:             | LED Projector                                                                                                                                                                                                                                                                                                                                                                                                               |
| Model No:             | XE10F                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Brand Name:           | XGIMI                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Derivative No:        | XE08F, XE09F, XE11F, XE12F, XE13F, XE14F, XE15F, XE16F, XE17F, XE18F, XE19F, XE20F, XE21F, XE22F, XE23F, XE24F, XE25F, XE26F, XE27F, XE28F, XE29F, XE30F, XE31F, XE32F, XE33F, XE34F, XE35F, XE36F, XE37F, WE58F, WE59F, WE60F, WE61F, WE62F, WE63F, WE64F, WE65F, WE66F, WE67F, WE68F, WE69F, WE70F, WE71F, WE72F, WE73F, WE74F, WE75F, WE76F, WE77F, WE78F, WE79F, WE80F, WE81F, WE82F, WE83F, WE84F, WE85F, WE86F, WE87F |
| Power Supply Range:   | DC 19.5V from battery or<br>DC 19.5V from adapter, AC 120V 60Hz for adapter                                                                                                                                                                                                                                                                                                                                                 |
| Test Power Supply:    | DC 19.5V from battery or<br>DC 19.5V from adapter, AC 120V/60Hz for adapter                                                                                                                                                                                                                                                                                                                                                 |
| Power Cord:           | 1.8 m x 2 wires unscreened DC mains cable                                                                                                                                                                                                                                                                                                                                                                                   |

#### 3.2 EUT Test Mode

| Pre-test the EUT in AC and B/O mode, find worse case in AC mode. |               |                         |                                                    |
|------------------------------------------------------------------|---------------|-------------------------|----------------------------------------------------|
| Number                                                           | AV input mode | Audio output mode       | Power supply mode                                  |
| Mode 1                                                           | USB 2.0       | Built in speaker of EUT | DC 19.5V from adapter,<br>AC 120V/60Hz for adapter |
| Mode 2                                                           | USB 3.0       |                         |                                                    |
| Mode 3                                                           | HDMI 1        |                         |                                                    |

### 3.3 Description of Test setup

EUT was tested in normal configuration (Please See following Block diagram)



### 3.4 Peripheral List

| No. | Equipment           | Manufacturer | EMC Compliance | Model No.           | Serial No. | Power cord                  | signal cable                |
|-----|---------------------|--------------|----------------|---------------------|------------|-----------------------------|-----------------------------|
| 1   | DVD                 | G-code       | N/A            | LVW-1105            | N/A        | N/A                         | N/A                         |
| 2   | USB flash disk      | Kingston     | N/A            | DT 101G2            | N/A        | N/A                         | N/A                         |
| 3   | HDMI Line           | N/A          | N/A            | N/A                 | N/A        | N/A                         | 1.0m/unshielded /detachable |
| 4   | USB extension cable | N/A          | N/A            | N/A                 | N/A        | 0.4m/unshielded /detachable | N/A                         |
| 5   | Printer             | EPSON        | CE             | STYLUS C45          | FY9YC48288 | 1.5m/unshielded /detachable | 1.8m/unshielded /detachable |
| 6   | Portable Hard Disc  | ALUMINUM     | CE             | 3.5 HDD Storage Box | 06832c009  | 1.8m/unshielded /detachable | 1.2m/unshielded /detachable |

### 3.5 EUT Peripheral List

| No. | Equipment        | Manufacturer | EMC Compliance | Model No.       | Serial No. | Power cord                   | signal cable |
|-----|------------------|--------------|----------------|-----------------|------------|------------------------------|--------------|
| 1   | Adapter          | XGIMI        | CE, FCC        | HKA0451952 3-XA | N/A        | N/A                          | N/A          |
| 2   | DC Line(adapter) | N/A          | N/A            | N/A             | N/A        | 1.8m /unshielded /detachable | N/A          |
| 3   | remote control   | N/A          | N/A            | N/A             | N/A        | N/A                          | N/A          |

### 3.6 Test Location

All tests were performed at:

NTEK Testing Technology Co., Ltd

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street

Bao' an District, Shenzhen P.R. China

The FCC Registration No. of NTEK Testing Technology Co., Ltd is 238937.

## 4 Equipments List for All Test Items

| <input checked="" type="checkbox"/> Radiation Test Equipment |                                     |              |                  |              |            |               |
|--------------------------------------------------------------|-------------------------------------|--------------|------------------|--------------|------------|---------------|
| No                                                           | Test Equipment                      | Manufacturer | Model No         | Serial No    | Cal. Date  | Cal. Due Date |
| 1                                                            | Spectrum Analyzer                   | ADVANTEST    | R3132            | 160400005    | 2015.04.07 | 2016.04.06    |
| 2                                                            | EMI Measuring Receiver              | R&S          | ESCI             | 1164.6407.03 | 2015.06.23 | 2016.06.22    |
| 3                                                            | Low Noise Pre Amplifier             | Tsj          | MLA-10K01-B01-27 | 1205323      | 2015.03.07 | 2016.03.06    |
| 4                                                            | TRILOG Super Broadband test Antenna | SCHWARZBECK  | VULB9160         | 9160-3206    | 2015.07.02 | 2016.07.01    |
| 5                                                            | 50Ω Coaxial Switch                  | Anritsu      | MP59B            | 6200264416   | 2015.03.07 | 2016.03.06    |
| 6                                                            | Spectrum Analyzer                   | ADVANTEST    | R3182            | 150900201    | 2015.09.21 | 2016.09.20    |
| 7                                                            | Low Noise Pre Amplifier             | Tsj          | MLA-0120-A02-34  | 2648A04738   | 2015.04.07 | 2016.04.06    |
| 8                                                            | Broadband Horn Antenna              | Schwarzbeck  | BBHA 9120D       | 452          | 2015.01.09 | 2016.01.09    |

| <input checked="" type="checkbox"/> Conduction Test equipment |                    |              |          |              |            |               |
|---------------------------------------------------------------|--------------------|--------------|----------|--------------|------------|---------------|
| No                                                            | Test Equipment     | Manufacturer | Model No | Serial No    | Cal. Date  | Cal. Due Date |
| 1                                                             | EMI Test Receiver  | R&S          | ESCI     | 100124       | 2014.12.29 | 2015.12.28    |
| 2                                                             | LISN               | Kyoritsu     | KNW-242  | 8-837-4      | 2015.04.08 | 2016.04.07    |
| 3                                                             | LISN               | Kyoritsu     | KNW-407  | 8-1789-3     | 2015.04.08 | 2016.04.07    |
| 4                                                             | Pulse limiter      | R&S          | ESH3-Z2  | 0357.8810.54 | 2015.04.08 | 2016.04.07    |
| 5                                                             | 50Ω Coaxial Switch | Anritsu      | MP59B    | 6200264417   | 2015.04.08 | 2016.04.07    |

Note:

1. ☐ is not applicable in this Test Report. ☒ is applicable in this Test Report.

## 5 Emission Test Results

### 5.1 Mains Terminals Disturbance Voltage Measurement

| Frequency (MHz) | <input type="checkbox"/> Class A (dBμV) |                | <input checked="" type="checkbox"/> Class B (dBμV) |                |
|-----------------|-----------------------------------------|----------------|----------------------------------------------------|----------------|
|                 | Q.P. (Quasi-Peak)                       | A.V. (Average) | Q.P. (Quasi-Peak)                                  | A.V. (Average) |
| 0.15 ~ 0.50     | 79                                      | 66             | 66 to 56                                           | 56 to 46       |
| 0.50 ~ 5.0      | 73                                      | 60             | 56                                                 | 46             |
| 5.0 ~ 30        | 73                                      | 60             | 60                                                 | 50             |

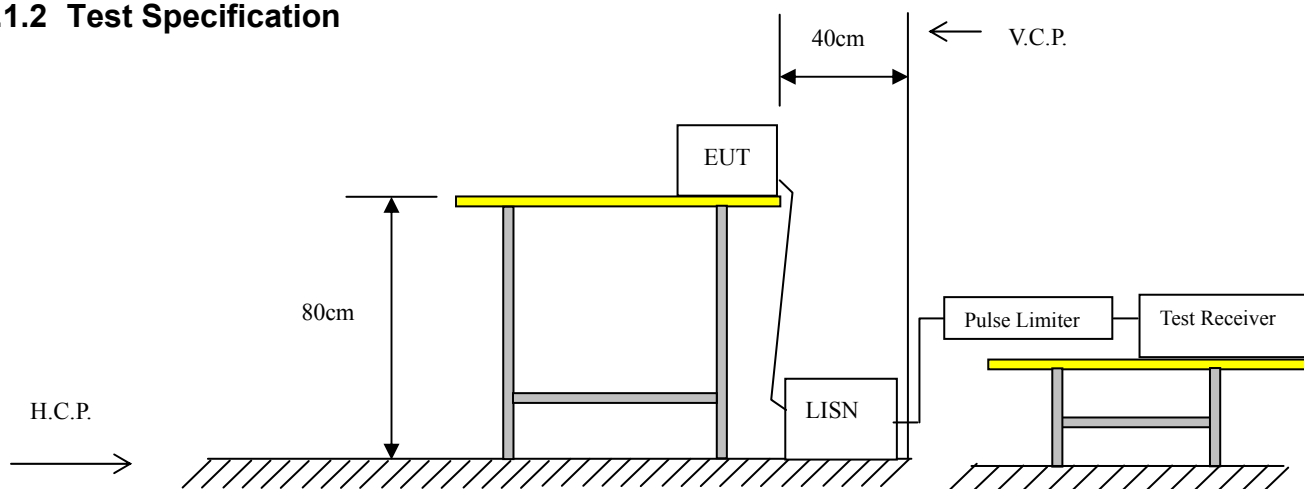
Detector:

Peak for pre-scan (9kHz Resolution Bandwidth)  
Quasi-Peak & Average if maximized peak within 6dB of Average Limit

#### 5.1.1 E.U.T. Operation

|              |                        |           |        |                       |        |     |
|--------------|------------------------|-----------|--------|-----------------------|--------|-----|
| Temperature: | 25°C                   | Humidity: | 54% RH | Atmospheric Pressure: | 101    | Kpa |
| Test Mode:   | Mode 1/ Mode 2/ Mode 3 |           |        | The Worse Mode:       | Mode 3 |     |

#### 5.1.2 Test Specification



EUT was placed upon a wooden test table 0.8m above the horizontal metal reference plane and 0.4m from the vertical ground plane, and it was connected to an AMN. The closest distance between the boundary of the EUT and the surface of the AMN is 0.8m. All peripherals were connected to another AMN, and placed at a distance of 10cm from each other. A spectrum and receiver was connected to the RF output port of the AMN. Both average and quasi-peak value were detected.

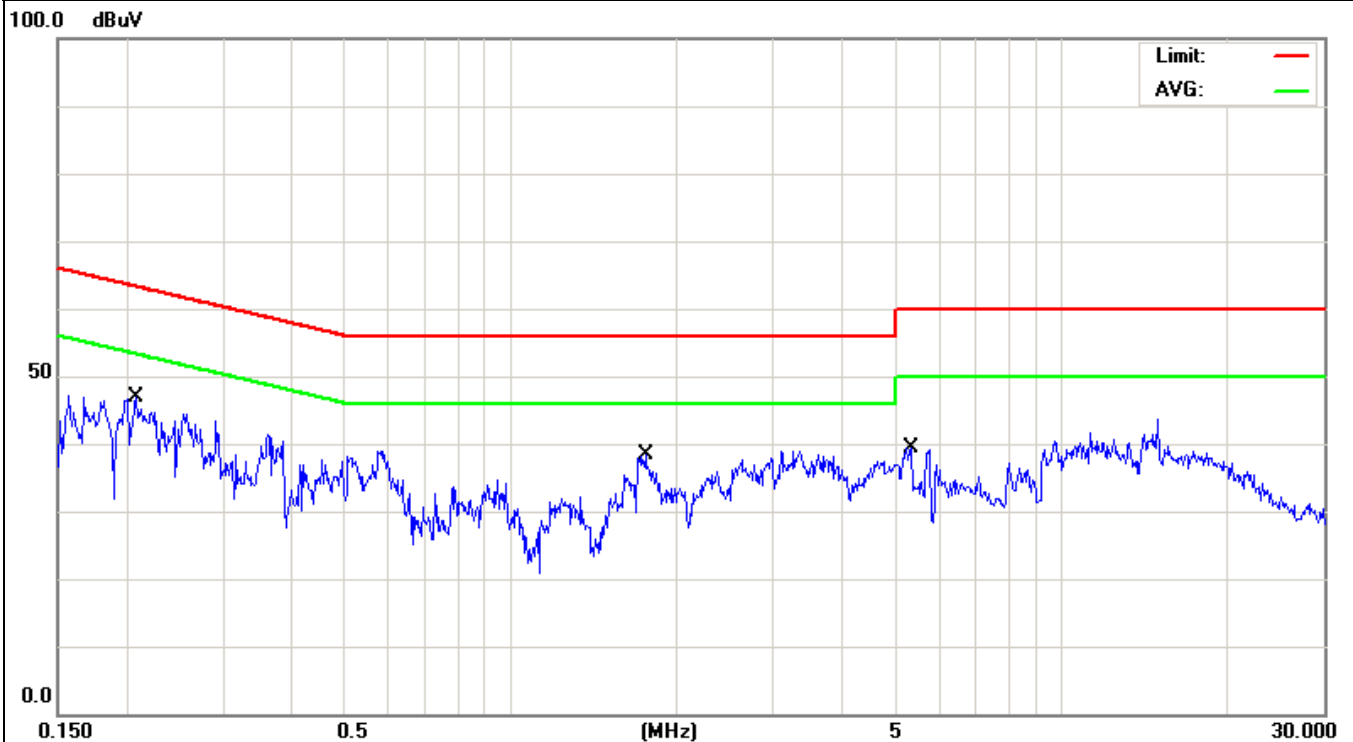
### 5.1.3 Measurement Data

An initial pre-scan was performed on the live and neutral lines.

Quasi-peak or average measurements were performed at the frequency which maximum peak emissions were detected.

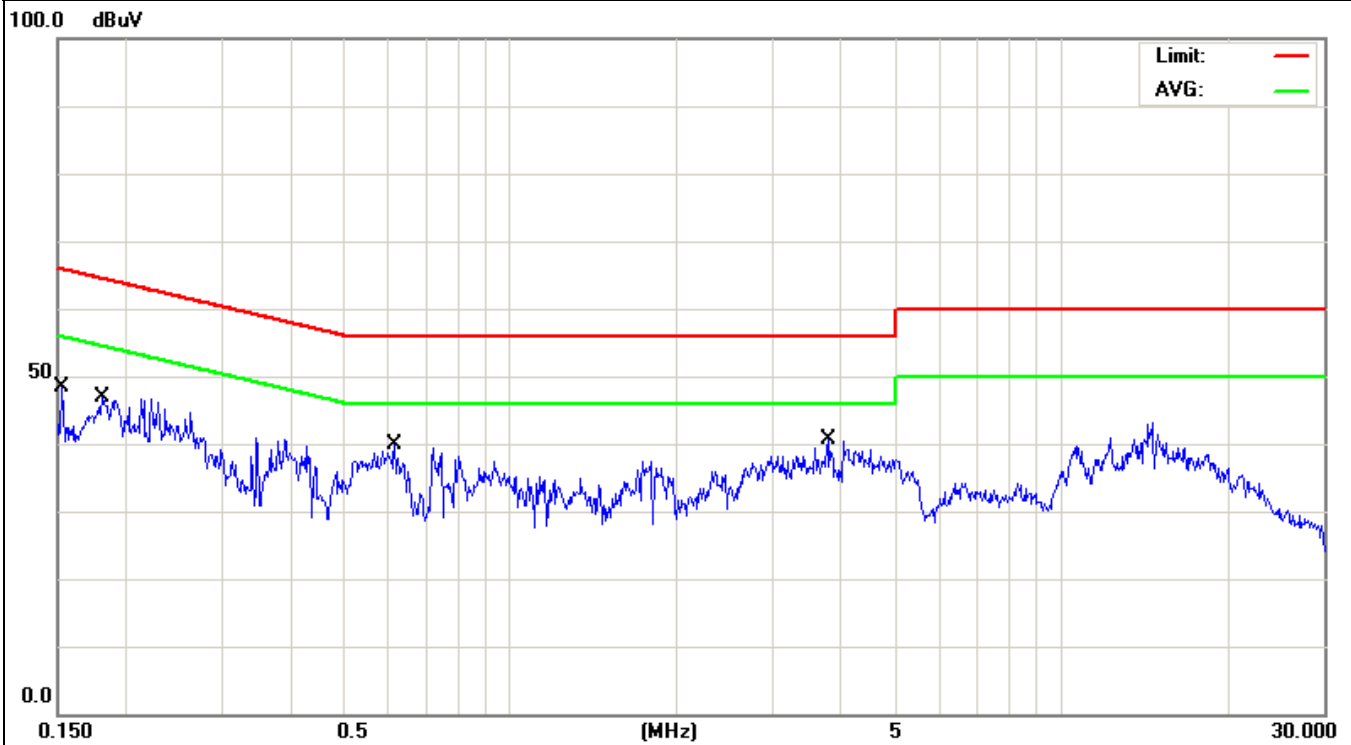
Please refer to the attached quasi-peak & average measurement data for reference.

|              |        |         |      |
|--------------|--------|---------|------|
| Model Name : | XE10F  | Phase : | Line |
| Test Mode :  | Mode 3 |         |      |



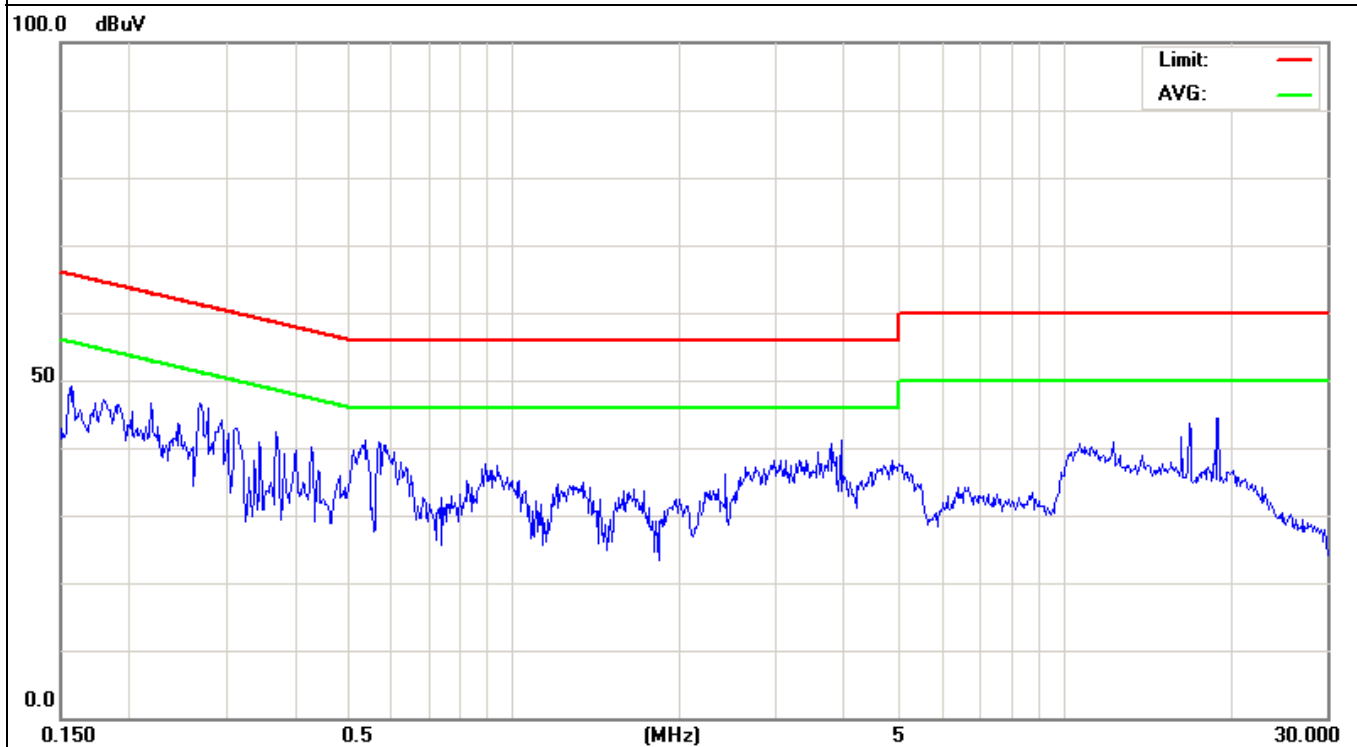
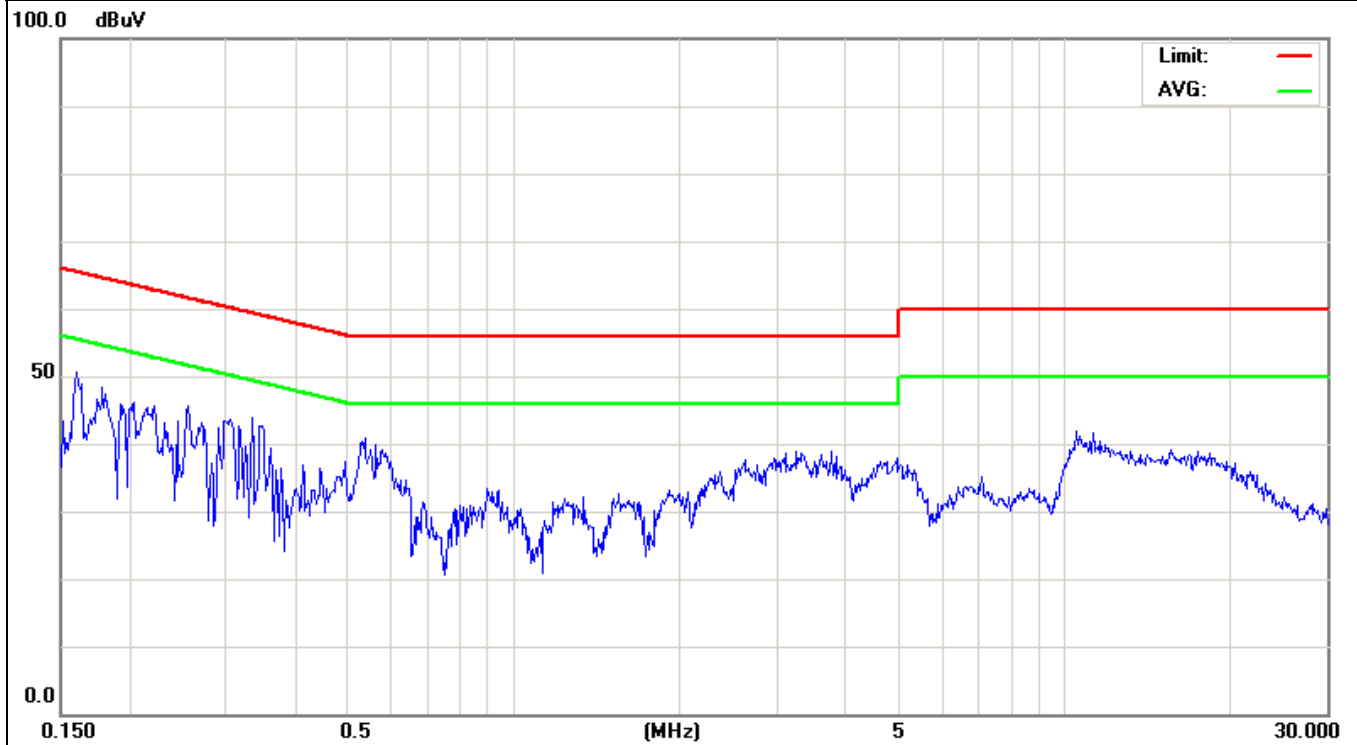
| Freq.  | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|--------|---------------|----------------|-------------|-------|--------|----------|
| MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector |
| 0.2083 | 35.87         | 11.08          | 46.95       | 63.27 | -16.32 | QP       |
| 0.2083 | 29.87         | 11.08          | 40.95       | 53.27 | -12.32 | AVG      |
| 1.7580 | 28.42         | 9.98           | 38.40       | 56.00 | -17.60 | QP       |
| 1.7580 | 21.42         | 9.98           | 31.40       | 46.00 | -14.60 | AVG      |
| 5.3498 | 29.38         | 10.12          | 39.50       | 60.00 | -20.50 | QP       |
| 5.3498 | 22.38         | 10.12          | 32.50       | 50.00 | -17.50 | AVG      |

|              |        |         |         |
|--------------|--------|---------|---------|
| Model Name : | XE10F  | Phase : | Neutral |
| Test Mode :  | Mode 3 |         |         |

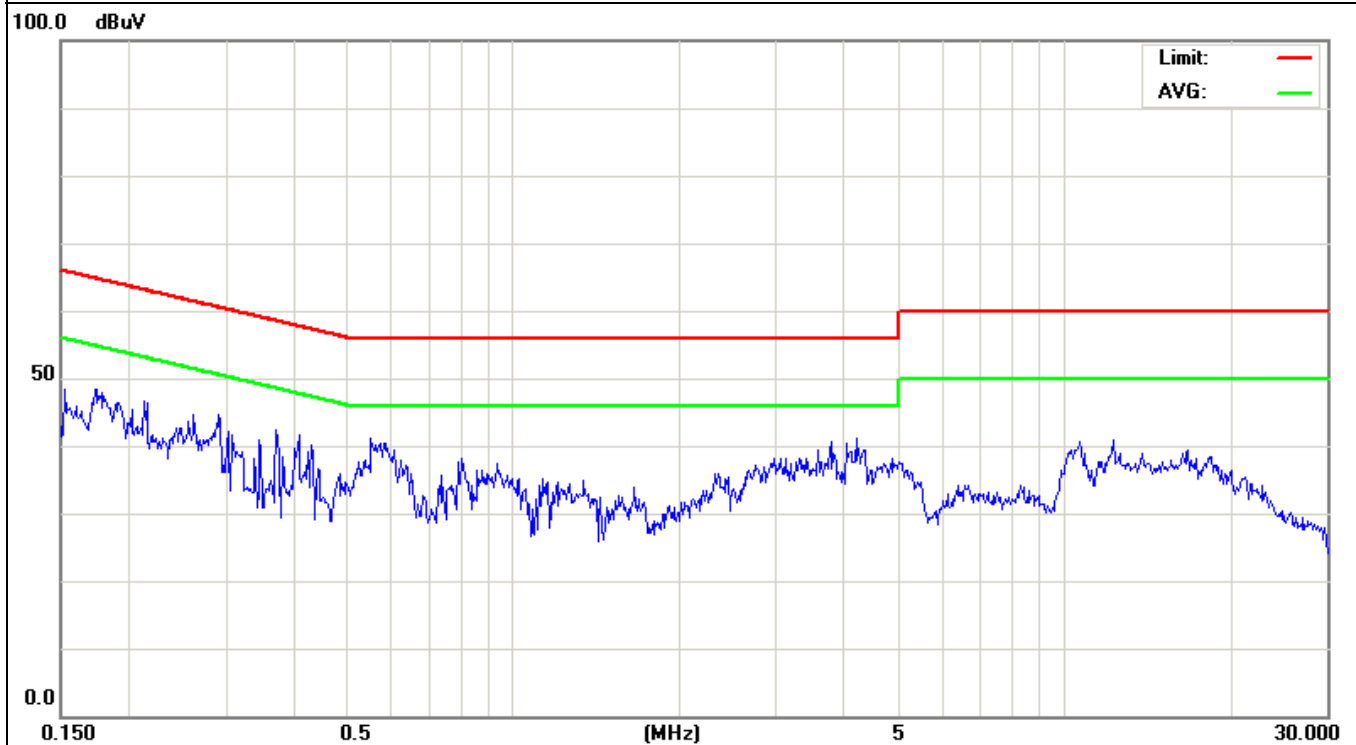
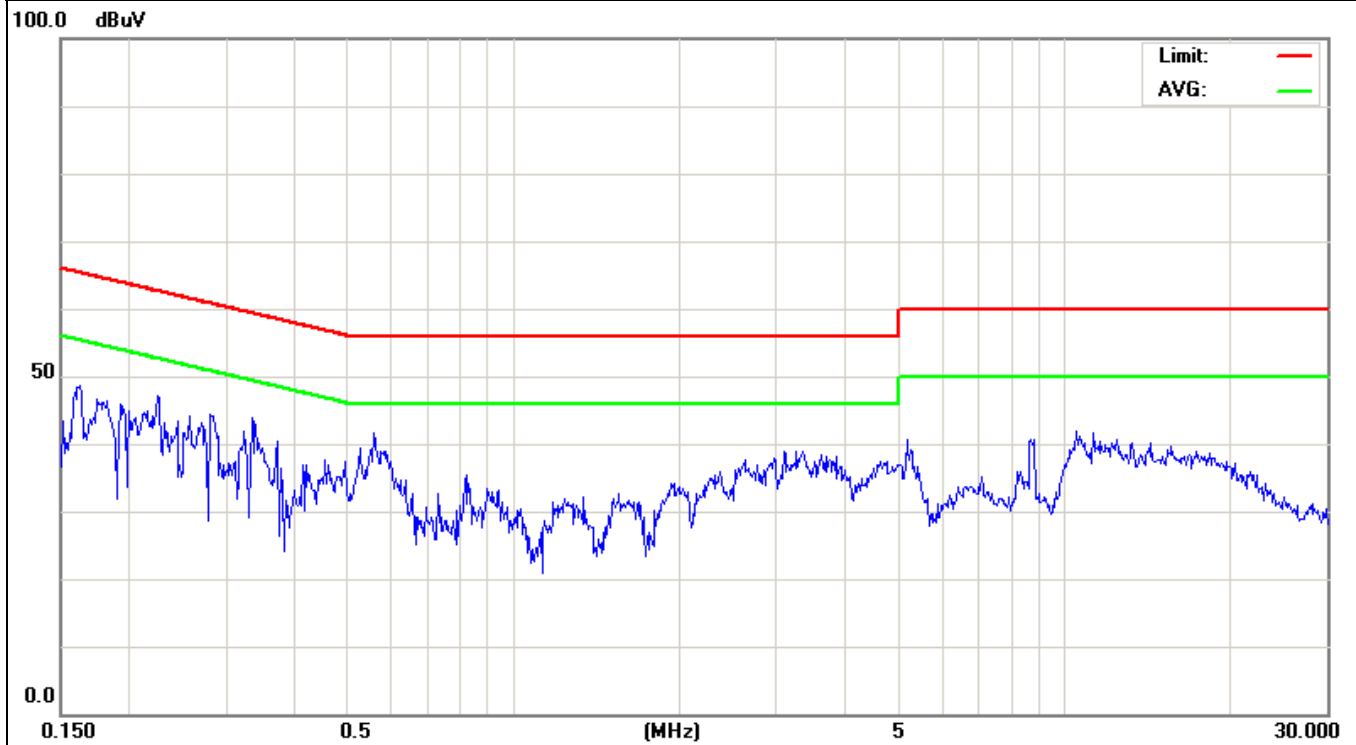


| Freq.  | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|--------|---------------|----------------|-------------|-------|--------|----------|
| MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector |
| 0.1524 | 27.42         | 11.88          | 39.30       | 55.86 | -16.56 | AVG      |
| 0.1804 | 35.58         | 11.37          | 46.95       | 64.46 | -17.51 | QP       |
| 0.6139 | 29.86         | 9.99           | 39.85       | 56.00 | -16.15 | QP       |
| 0.6139 | 21.86         | 9.99           | 31.85       | 46.00 | -14.15 | AVG      |
| 3.7820 | 30.51         | 10.05          | 40.56       | 56.00 | -15.44 | QP       |
| 3.7820 | 22.51         | 10.05          | 32.56       | 46.00 | -13.44 | AVG      |

|              |        |         |                |
|--------------|--------|---------|----------------|
| Model Name : | XE10F  | Phase : | Line / Neutral |
| Test Mode :  | Mode 1 |         |                |



|              |        |         |                |
|--------------|--------|---------|----------------|
| Model Name : | XE10F  | Phase : | Line / Neutral |
| Test Mode :  | Mode 2 |         |                |



## 5.2 Radiated Emission Measurement

### Limits of Radiated Emission Measurement

| Frequency (MHz) | <input type="checkbox"/> Class A (10m) | <input checked="" type="checkbox"/> Class B (3m) |
|-----------------|----------------------------------------|--------------------------------------------------|
|                 | Quasi-Peak dB( $\mu$ V/m)              | Quasi-Peak dB( $\mu$ V/m)                        |
| 30 ~ 88         | 39.0                                   | 40.0                                             |
| 88 ~ 216        | 43.5                                   | 43.5                                             |
| 216 ~ 960       | 46.5                                   | 46.0                                             |
| Above 960       | 49.5                                   | 54.0                                             |

Detector:

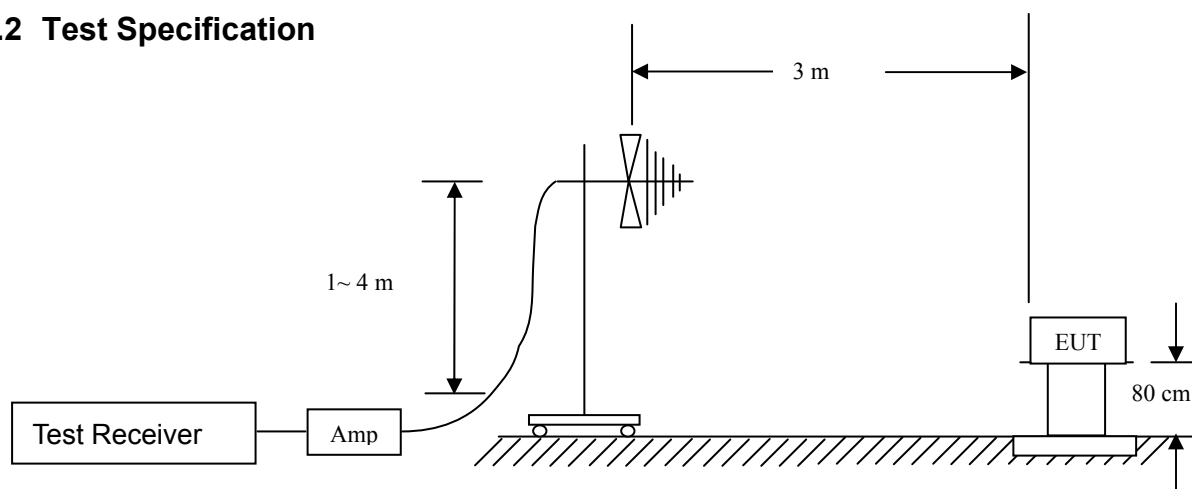
Peak for pre-scan (120kHz resolution bandwidth)

Quasi-Peak if maximum peak within 6dB of limit

### 5.2.1 E.U.T. Operation

|              |                        |           |        |                       |        |     |
|--------------|------------------------|-----------|--------|-----------------------|--------|-----|
| Temperature: | 26°C                   | Humidity: | 55% RH | Atmospheric Pressure: | 101    | Kpa |
| Test Mode:   | Mode 1/ Mode 2/ Mode 3 |           |        | The Worst Mode:       | Mode 3 |     |

### 5.2.2 Test Specification



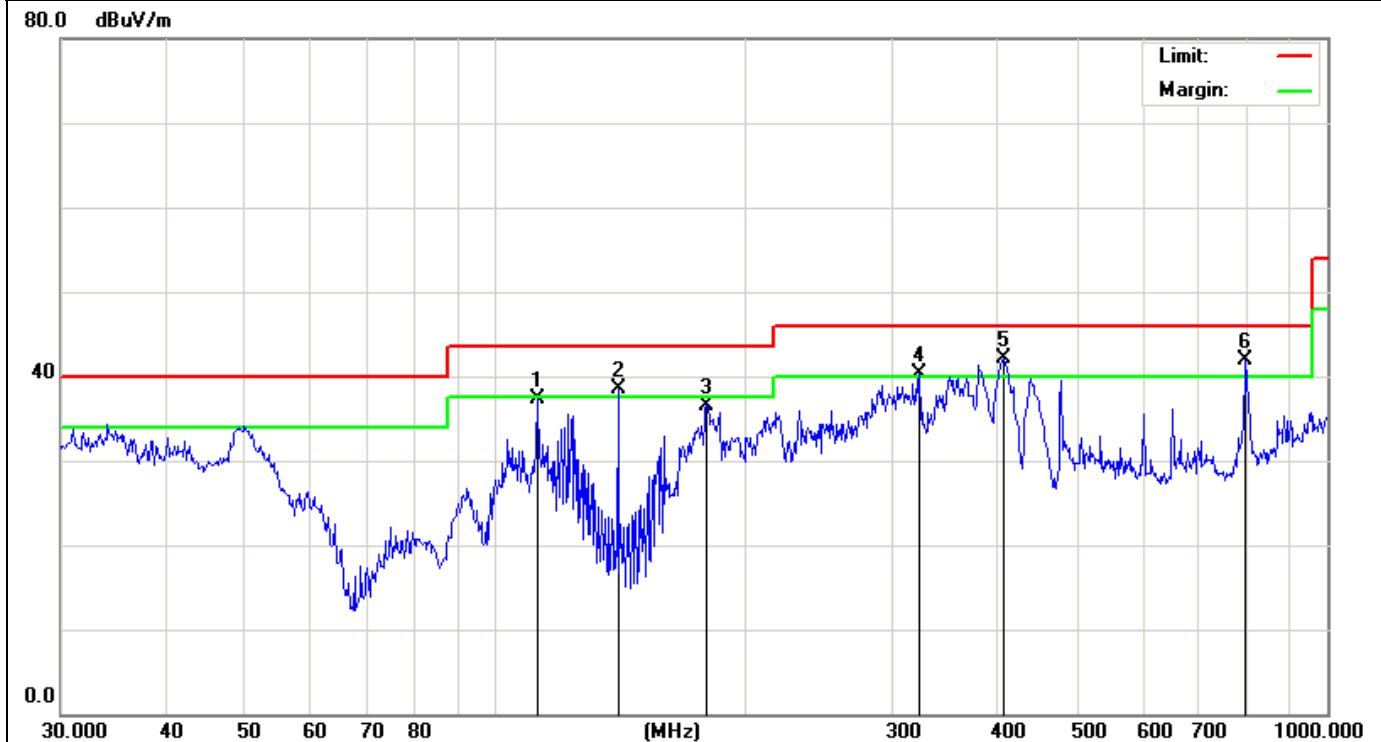
EUT was placed upon a wooden test table which was placed on the turn table 0.8m above the horizontal metal ground plane, and operating in the mode as mentioned above. A receiving antenna was placed 3m away from the EUT. During testing, turn around the turn table and move the antenna from 1m to 4m to find the maximum field-strength reading. All peripherals were placed at a distance of 10cm between each other. Both horizontal and vertical antenna polarities were tested.

### 5.2.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyzers in peak detection mode. The EUT was measured by Biology antenna with 2 orthogonal polarities and peak emissions from the EUT were detected within 6dB of the class B limit line.

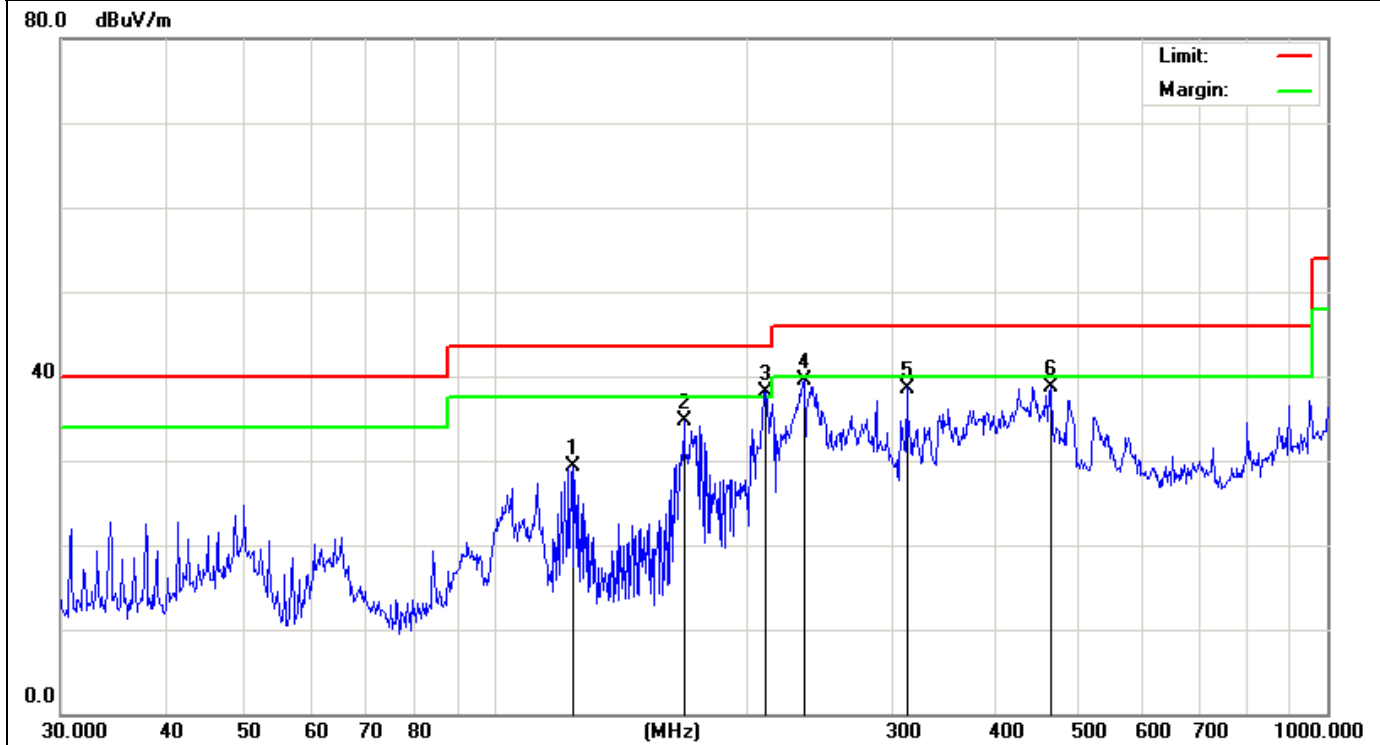
The following quasi-peak measurements were performed on the EUT.

|              |        |         |          |
|--------------|--------|---------|----------|
| Model Name : | XE10F  | Phase : | Vertical |
| Test Mode :  | Mode 3 |         |          |



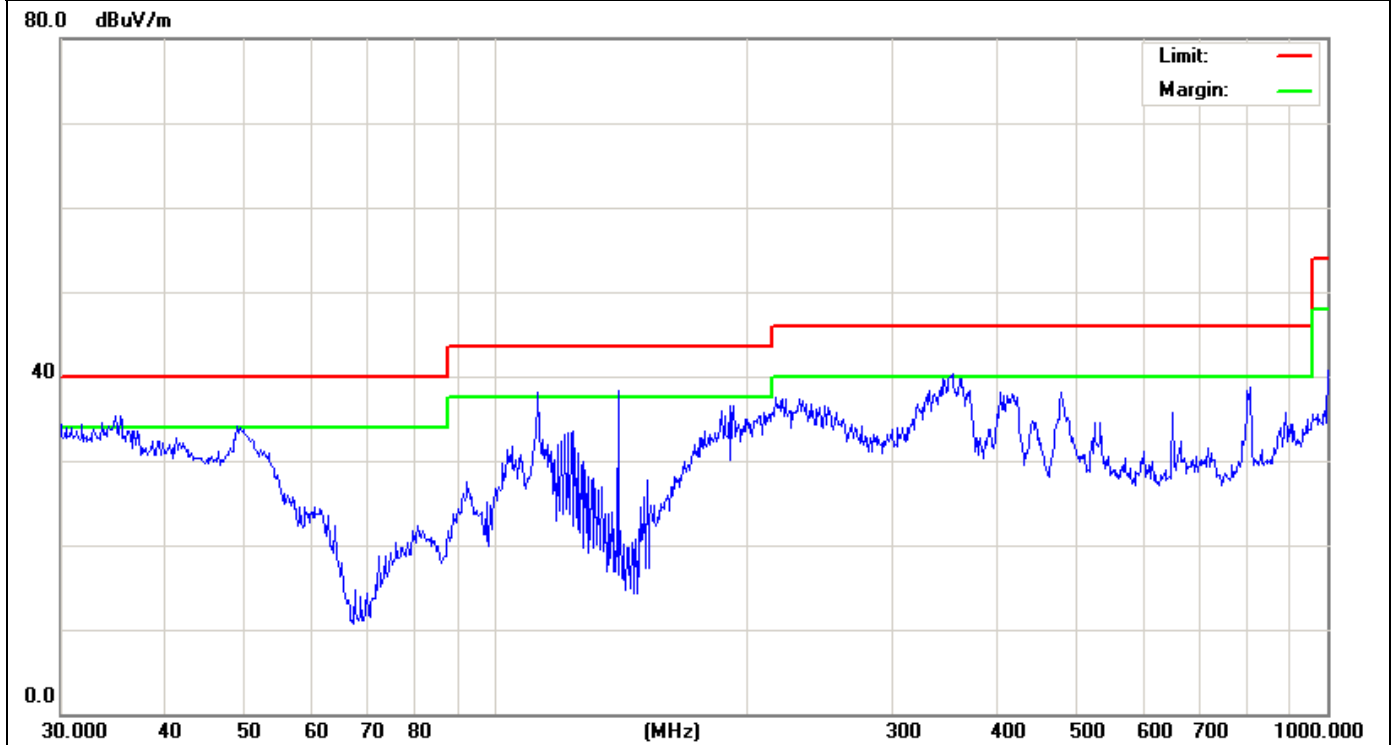
| Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over  |          |
|----------|---------------|----------------|-------------|--------|-------|----------|
| MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB    | Detector |
| 112.1304 | 51.12         | -13.72         | 37.40       | 43.50  | -6.10 | QP       |
| 140.3420 | 53.48         | -14.98         | 38.50       | 43.50  | -5.00 | QP       |
| 179.3863 | 51.24         | -14.64         | 36.60       | 43.50  | -6.90 | QP       |
| 323.3204 | 49.06         | -8.76          | 40.30       | 46.00  | -5.70 | QP       |
| 408.9460 | 48.71         | -6.55          | 42.16       | 46.00  | -3.84 | QP       |
| 796.1829 | 38.99         | 3.01           | 42.00       | 46.00  | -4.00 | QP       |

|              |        |         |            |
|--------------|--------|---------|------------|
| Model Name : | XE10F  | Phase : | Horizontal |
| Test Mode :  | Mode 3 |         |            |

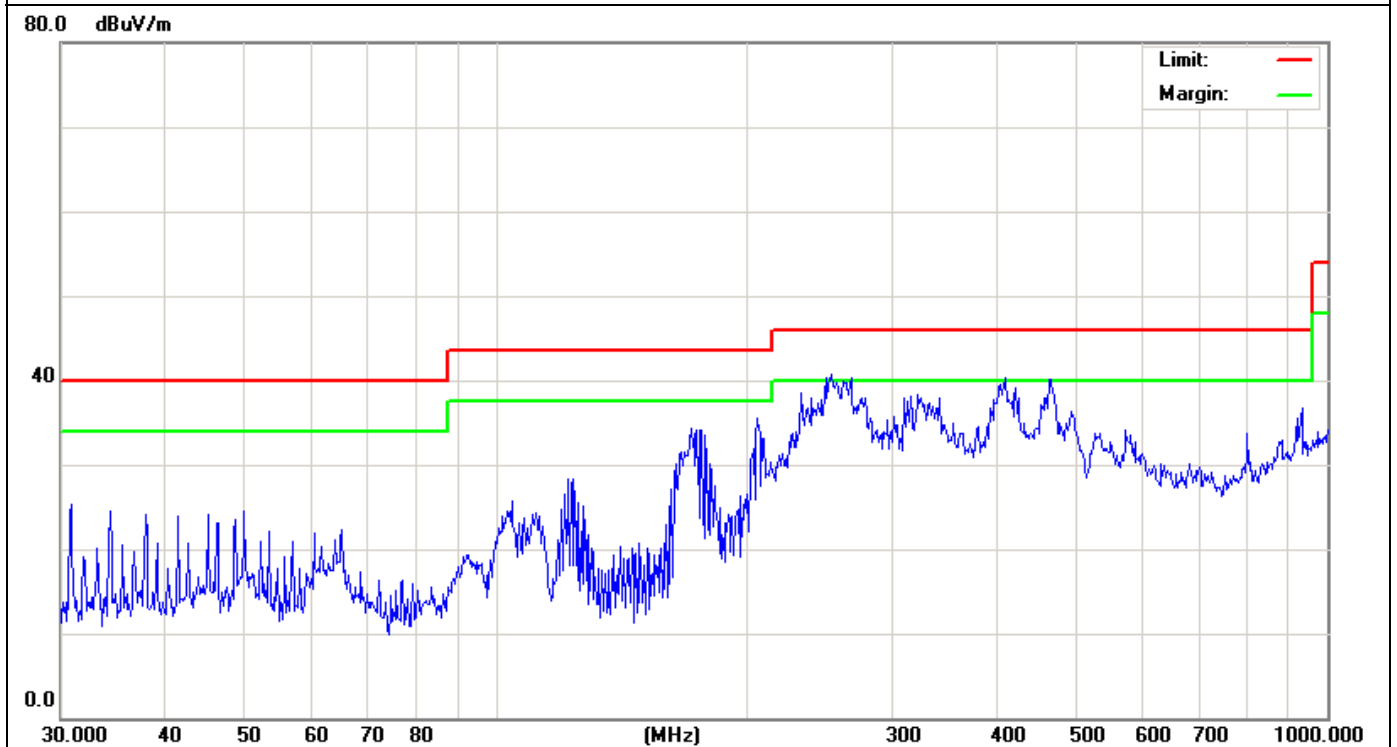
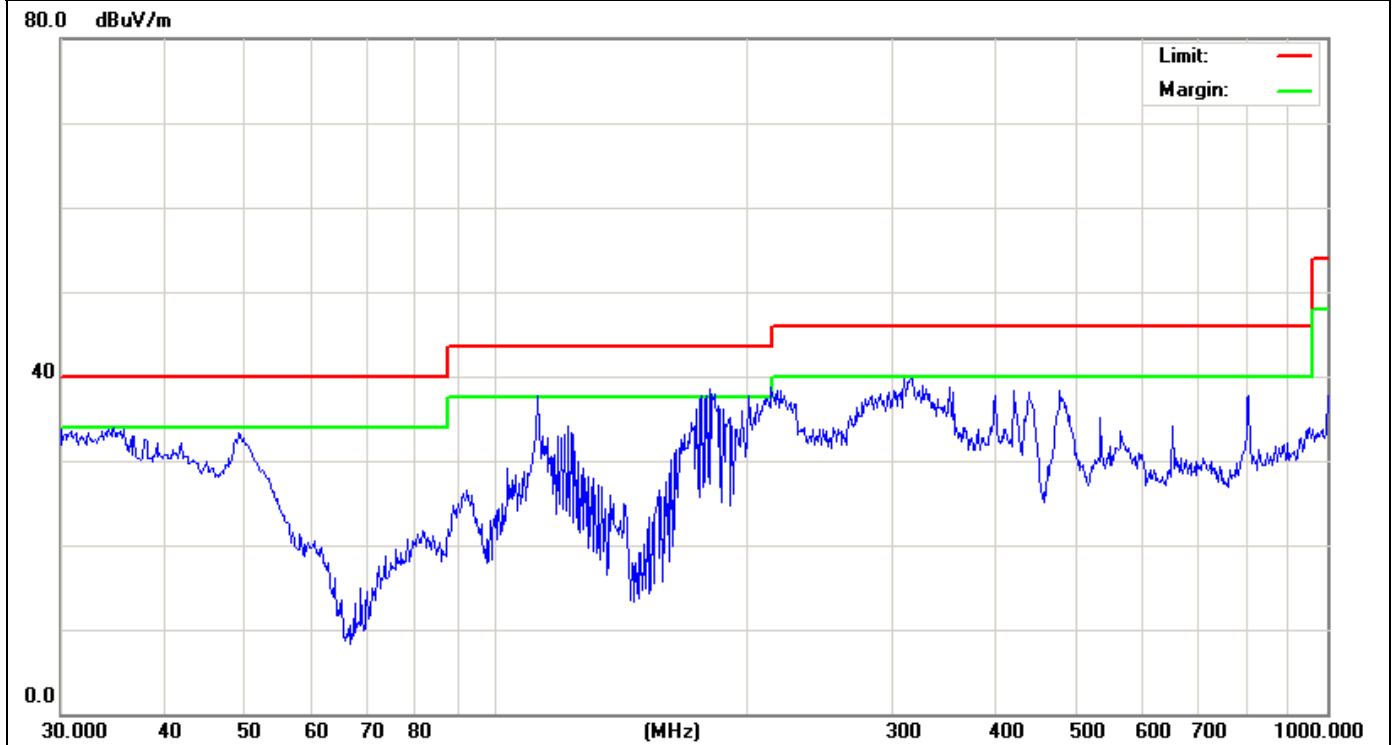


| Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|----------|---------------|----------------|-------------|--------|--------|----------|
| MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 123.6984 | 44.42         | -15.09         | 29.33       | 43.50  | -14.17 | QP       |
| 168.4138 | 48.17         | -13.49         | 34.68       | 43.50  | -8.82  | QP       |
| 210.7860 | 52.62         | -14.42         | 38.20       | 43.50  | -5.30  | QP       |
| 234.9909 | 51.67         | -12.16         | 39.51       | 46.00  | -6.49  | QP       |
| 312.1792 | 47.71         | -9.11          | 38.60       | 46.00  | -7.40  | QP       |
| 465.5994 | 45.26         | -6.46          | 38.80       | 46.00  | -7.20  | QP       |

|              |        |         |                       |
|--------------|--------|---------|-----------------------|
| Model Name : | XE10F  | Phase : | Vertical / Horizontal |
| Test Mode :  | Mode 1 |         |                       |



|              |        |         |                       |
|--------------|--------|---------|-----------------------|
| Model Name : | XE10F  | Phase : | Vertical / Horizontal |
| Test Mode :  | Mode 2 |         |                       |



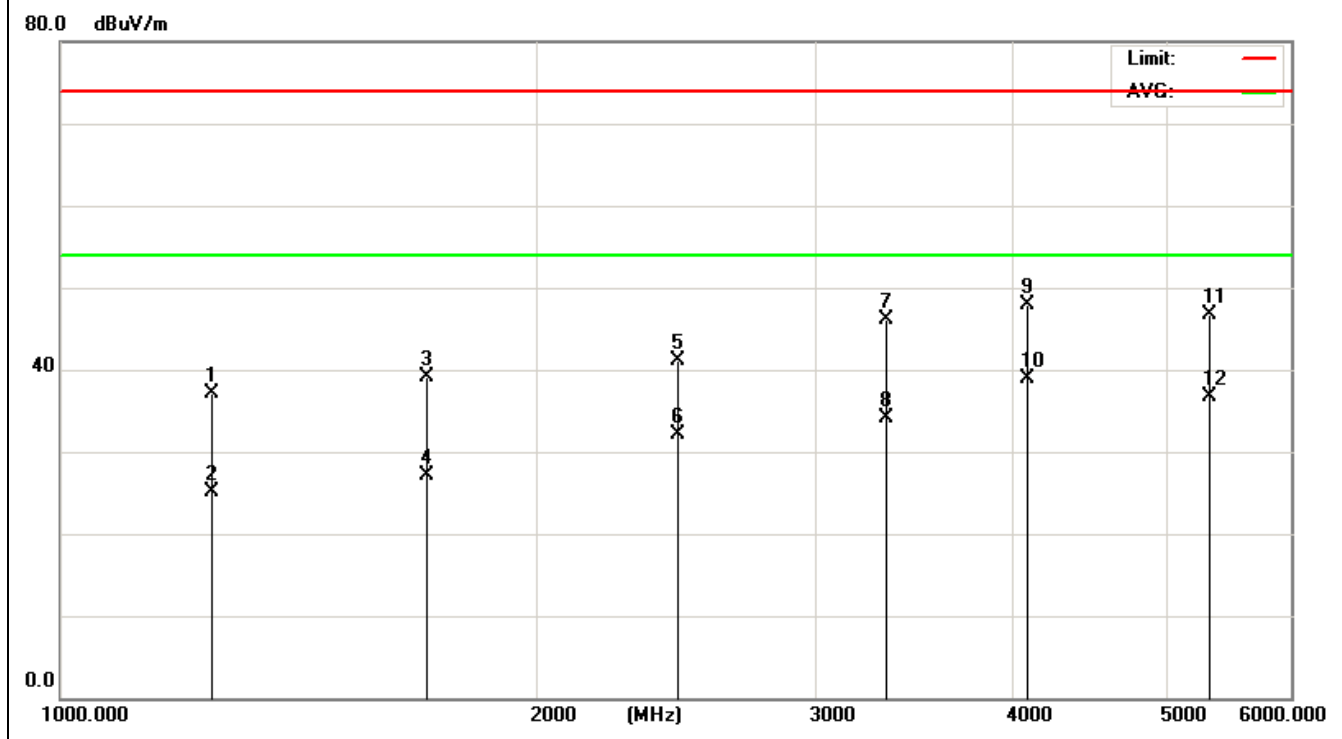
## Between 1000-6000MHz

|                |                                                 |                    |            |
|----------------|-------------------------------------------------|--------------------|------------|
| EUT:           | LED Projector                                   | Model Name :       | XE10F      |
| Temperature:   | 23 °C                                           | Relative Humidity: | 56%        |
| Pressure:      | 1010hPa                                         | Test Date :        | 2015-09-30 |
| Test Mode:     | Mode 3 (the worst case)                         | Phase :            | Vertical   |
| Test Voltage : | DC 19.5V from adapter, AC 120V/60Hz for adapter |                    |            |

| Frequency<br>(MHz) | Meter Reading (dBμV) |         | Factor<br>(dB) | Emission Level (dBμV) |         | Limits (dBμV) |         | Margin (dBμV) |         |
|--------------------|----------------------|---------|----------------|-----------------------|---------|---------------|---------|---------------|---------|
|                    | Peak                 | Average |                | Peak                  | Average | Peak          | Average | Peak          | Average |
| 1245.327           | 47.52                | 35.49   | -10.48         | 37.04                 | 25.01   | 74.00         | 54.00   | -36.96        | -28.99  |
| 1702.914           | 48.63                | 36.65   | -9.62          | 39.01                 | 27.03   | 74.00         | 54.00   | -34.99        | -26.97  |
| 2458.283           | 46.38                | 37.21   | -5.20          | 41.18                 | 32.01   | 74.00         | 54.00   | -32.82        | -21.99  |
| 3327.664           | 47.05                | 35.11   | -1.02          | 46.03                 | 34.09   | 74.00         | 54.00   | -27.97        | -19.91  |
| *4089.092          | 43.97                | 34.97   | 3.97           | 47.94                 | 38.94   | 74.00         | 54.00   | -26.06        | -15.06  |
| 5321.268           | 42.36                | 32.36   | 4.36           | 46.72                 | 36.72   | 74.00         | 54.00   | -27.28        | -17.28  |

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- “\*” means the worst case



|                |                                                 |                    |            |
|----------------|-------------------------------------------------|--------------------|------------|
| EUT:           | LED Projector                                   | Model Name :       | XE10F      |
| Temperature:   | 23 °C                                           | Relative Humidity: | 56%        |
| Pressure:      | 1010hPa                                         | Test Date :        | 2015-09-30 |
| Test Mode:     | Mode 3 (the worst case)                         | Phase :            | Horizontal |
| Test Voltage : | DC 19.5V from adapter, AC 120V/60Hz for adapter |                    |            |

| Frequency<br>(MHz) | Meter Reading (dBμV) |         | Factor<br>(dB) | Emission Level (dBμV) |         | Limits (dBμV) |         | Margin (dBμV) |         |
|--------------------|----------------------|---------|----------------|-----------------------|---------|---------------|---------|---------------|---------|
|                    | Peak                 | Average |                | Peak                  | Average | Peak          | Average | Peak          | Average |
| 1052.364           | 46.55                | 34.98   | -10.83         | 35.72                 | 24.15   | 74.00         | 54.00   | -38.28        | -29.85  |
| 1588.851           | 49.22                | 35.87   | -9.89          | 39.33                 | 25.98   | 74.00         | 54.00   | -34.67        | -28.02  |
| 2236.966           | 49.50                | 38.21   | -7.08          | 42.42                 | 31.13   | 74.00         | 54.00   | -31.58        | -22.87  |
| 3218.042           | 48.15                | 34.89   | -1.17          | 46.98                 | 33.72   | 74.00         | 54.00   | -27.02        | -20.28  |
| *4152.354          | 44.11                | 33.86   | 4.07           | 48.18                 | 37.93   | 74.00         | 54.00   | -25.82        | -16.07  |
| 5478.269           | 43.57                | 31.82   | 3.94           | 47.51                 | 35.76   | 74.00         | 54.00   | -26.49        | -18.24  |

Remark:

3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

4. '\*' means the worst case

