# FCC& ISED EMC Test Report

| | | |
|---|---|---|
| **Project No.** | : | 1812C075 |
| **Equipment** | : | LCD Monitor |
| **Test Model** | : | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| **Series Model** | : | N/A |
| **Applicant** | : | TPV Electronics (Fujian) Co., Ltd. |
| **Address** | : | Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province, P.R. China |

| | | |
|---|---|---|
| **Date of Receipt** | : | Dec. 13, 2018 |
| **Date of Test** | : | Dec. 25, 2018 ~ Jan. 05, 2019 |
| **Issued Date** | : | Jan. 28, 2019 |
| **Tested by** | : | BTL Inc. |

**Testing Engineer** : Jivey Jiang
(Jivey Jiang)

**Technical Manager** : Bill Zhang
(Bill Zhang)

**Authorized Signatory** : Steven Lu
(Steven Lu)


**BTL INC.**

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Certificate #5123.02

## Declaration

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL**'s reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

**BTL**'s laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

## Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

## Table of Contents

Page

## REPORT ISSUED HISTORY

| Report Version | Description | Issued Date |
|---|---|---|
| R00 | Original Issue. | Jan. 28, 2019 |

## 1. GENERAL SUMMARY

| | | |
|---|---|---|
| Equipment | : | LCD Monitor |
| Brand Name | : | N/A |
| Test Model | : | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Series Model | : | N/A |
| Applicant | : | TPV Electronics (Fujian) Co., Ltd. |
| Date of Test | : | Dec. 25, 2018 ~ Jan. 05, 2019 |
| Test Sample | : | Engineering Sample No.: D181211951 |
| Standard(s) | : | FCC Part 15, Subpart B<br>ICES-003 Issue 6:2016<br>ICES-003 Issue 6:2016 (updated April 2017)<br>ANSI C63.4-2014 |

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FICE-1-1812C075) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| EMC Emission | | | | |
|---|---|---|---|---|
| Standard(s) | Test Item | Limit | Judgment | Remark |
| FCC Part15, Subpart B<br>ICES-003 Issue 6:2016<br>ICES-003 Issue 6:2016<br>(updated April 2017)<br>ANSI C63.4-2014 | Conducted Emission | Class B | PASS | |
| | Radiated emission<br>Below 1 GHz | Class B | PASS | |
| | Radiated emission<br>Above 1 GHz | Class B | PASS | **NOTE(2)** |

NOTE:

(1) “N/A” denotes test is not applicable to this device.

(2) The EUT’s max operating frequency is 597 MHz which does exceed 108 MHz, so the test will be performed.

## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

BTL's Test Firm Registration Number for IC: 4428B-3

## 2.2MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 $U_{cispr}$ requirement.

The reported uncertainty of measurement **y** ± **U**, where expanded uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95**%.

A. Conducted Measurement :

| Test Site | Method | Measurement Frequency Range | U, (dB) |
|---|---|---|---|
| DG-C02 | CISPR | 150 kHz ~ 30MHz | 2.32 |

B. Radiated Measurement :

| Test Site | Method | Measurement Frequency Range | Ant. H / V | U, (dB) |
|---|---|---|---|---|
| DG-CB08 (3m) | CISPR | 30MHz ~ 200MHz | V | 3.76 |
| | | 30MHz ~ 200MHz | H | 3.56 |
| | | 200MHz ~ 1,000MHz | V | 4.00 |
| | | 200MHz ~ 1,000MHz | H | 3.90 |

| Test Site | Method | Measurement Frequency Range | U, (dB) |
|---|---|---|---|
| DG-CB08 (3m) | CISPR | 1 ~ 6 GHz | 4.02 |
| | | 6 ~18 GHz | 5.10 |

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

## 3. GENERAL INFORMATION

### 3.1 GENERAL DESCRIPTION OF EUT

| | |
|---|---|
| Equipment | LCD Monitor |
| Brand Name | N/A |
| Test Model | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Series Model | N/A |
| Model Difference(s) | Only differ in model name due to marketing purpose. |
| Power Source | AC Mains. |
| Power Rating | 100-240V~ 50/60Hz |
| Connecting I/O Port | 1* D-SUB port<br>5* USB port<br>1* Display port<br>2* HDMI port<br>1* Audio port<br>1* Earphone port<br>1* AC port |

| Cable Type | Shielded Type | Ferrite Core | Length(m) | Note |
|---|---|---|---|---|
| Display | Shielded | NO | 1.8/1.5/1.2 | |
| D-SUB | Shielded | YES | 1.8/1.5/1.2 | Bonded two Ferrite Cores |
| Audio | Non-shielded | NO | 1.8/1.5/1.2 | |
| HDMI | Shielded | NO | 1.8/1.5/1.2 | |
| USB | Shielded | NO | 1.8/1.5/1.2 | |
| AC Power Cord | Non-shielded | NO | 1.8/1.5/1.2 | 1.8m is worst case Detachable (3 Pin) |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. Power cable 1.8m, 1.5m and 1.2m length, worst case is Power cable 1.8m with Display+HDMI+ Audio+D-SUB+USB 1.8m length testing and recording in test report.

## 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|---|---|
| Mode 1 | D-SUB 3840*2160/60Hz |
| Mode 2 | Display 3840*2160/60Hz |
| Mode 3 | HDMI1 3840*2160/60Hz |
| Mode 4 | HDMI2 3840*2160/60Hz |
| Mode 5 | HDMI1 2160P |
| Mode 6 | HDMI2 2160P |
| Mode 7 | HDMI1 1920*1080/60Hz |
| Mode 8 | HDMI1 640*480/75Hz |

| For Conducted Test | |
|---|---|
| Final Test Mode | Description |
| Mode 1 | D-SUB 3840*2160/60Hz |
| Mode 3 | HDMI1 3840*2160/60Hz |
| Mode 5 | HDMI1 2160P |

| For Radiated Test | |
|---|---|
| Final Test Mode | Description |
| Mode 1 | D-SUB 3840*2160/60Hz |
| Mode 3 | HDMI1 3840*2160/60Hz |
| Mode 5 | HDMI1 2160P |

Evaluation description:

1. The maximum resolution is evaluated Mode 1-6. The worst case is Mode 3 and evaluated the middle and low resolution Mode 7 and mode 8.
2. According to the client's requirement, choose Mode 1, Mode 3, Mode 5 and recorded in test report.

### 3.3 EUT OPERATING CONDITIONS

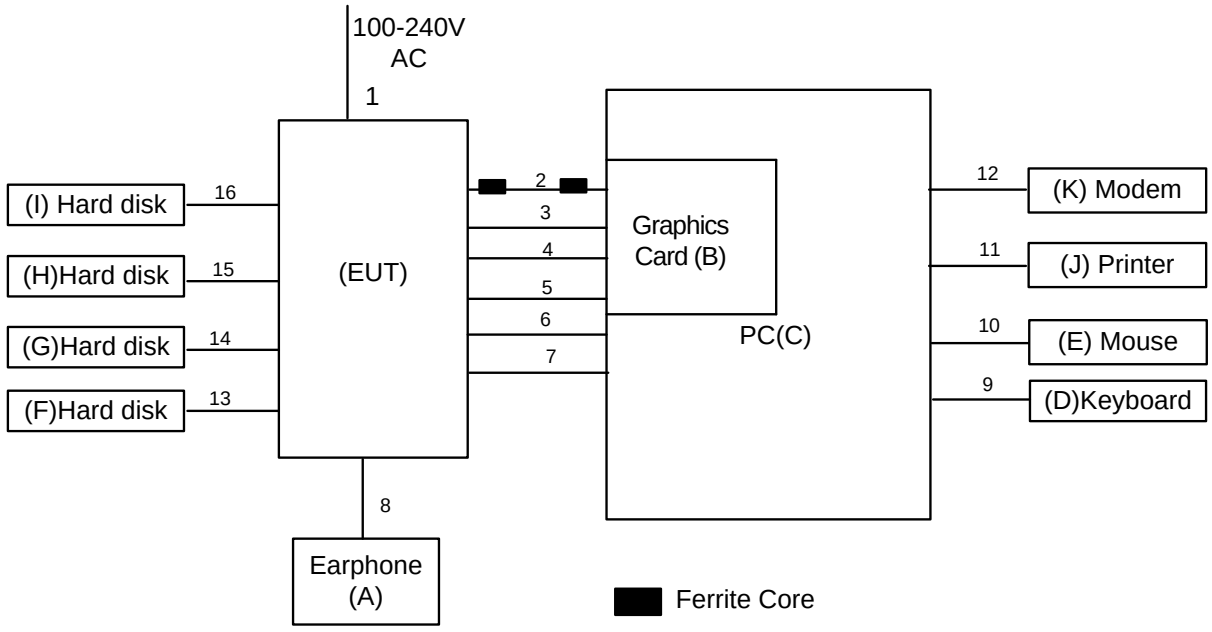
The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The standard test signals and output signal as following:

1. EUT connected to PC via Display & HDMI & Audio & USB & D-SUB &USB cable.
2. EUT connected to Earphone via earphone cable.
3. The Flash disks are plugged into the EUT.
4. PC connected to Mouse and Keyboard via USB cable.
5. PC connected to Printer via Parallel cable.
6. PC connected to Modem via RS232 cable.

### 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

**Remote System**

**Ground Plane**



### 3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. |
|---|---|---|---|---|
| A | Earphone | APPLE | N/A | N/A |
| B | Graphics Card | LEADTEK | LR2A5F | ALF7100123952 |
| C | PC | DELL | 320 | J4JQ52X |
| D | Keyboard | DELL | SK-8815(L) | 00975811 |
| E | Mouse | DELL | MO28UOL | 23-122591 |
| F | Hard Disk | WD | WDBBLW5000AAL | WX31A9373281 |
| G | Hard Disk | WD | WDBLUZ5000ASL | WXM1AA366091 |
| H | Hard Disk | WD | WDBBLW5000AAL | WXD1A64PTAFP |
| I | Hard Disk | WD | WDBAAR3200ABK | WXG1EB0AZC81 |
| J | Printer | SII | DPU-414 | 3018507 B |
| K | Modem | ACEEX | DM-1414V | 603002131 |

| Item | Shielded Type | Ferrite Core | Length | Note |
|---|---|---|---|---|
| 1 | YES | NO | 1.8m/1.5m/1.2m | AC Cable |
| 2 | YES | YES | 1.8m/1.5m/1.2m | D-SUB Cable |
| 3 | YES | NO | 1.8m/1.5m/1.2m | Display Cable |
| 4 | YES | NO | 1.8m/1.5m/1.2m | HDMI Cable |
| 5 | YES | NO | 1.8m/1.5m/1.2m | HDMI Cable |
| 6 | NO | NO | 1.8m/1.5m/1.2m | Audio Cable |
| 7 | YES | NO | 1.8m/1.5m/1.2m | USB Cable |
| 8 | NO | NO | 1.2m | Earphone Cable |
| 9 | YES | NO | 1.8m | USB Cable |
| 10 | YES | NO | 1.8m | USB Cable |
| 11 | YES | NO | 1.5m | Parallel cable |
| 12 | YES | NO | 1.5m | RS232 cable |
| 13 | YES | NO | 1.0m | USB Cable |
| 14 | YES | NO | 1.0m | USB Cable |
| 15 | YES | NO | 1.0m | USB Cable |
| 16 | YES | NO | 1.0m | USB Cable |

# 4. EMC EMISSION TEST

## 4.1 CONDUCTED EMISSION MEASUREMENT

### 4.1.1 POWER LINE CONDUCTED EMISSION (FREQUENCY RANGE 150KHZ-30MHZ)

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | |
|---|---|---|---|---|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.15 - 0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * |
| 0.50 - 5.0 | 73.00 | 60.00 | 56.00 | 46.00 |
| 5.0 - 30.0 | 73.00 | 60.00 | 60.00 | 50.00 |

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

(3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
Margin Level = Measurement Value - Limit Value

### 4.1.2 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|---|---|---|---|---|---|
| 1 | EMI Test Receiver | R&S | ESCI | 100382 | Mar. 11, 2019 |
| 2 | LISN | EMCO | 3816/2 | 52765 | Mar. 11, 2019 |
| 3 | 50Ω Terminator | SHX | TF2-3G-A | 8122901 | Mar. 11, 2019 |
| 4 | TWO-LINE V-NETWORK | R&S | ENV216 | 101447 | Mar. 11, 2019 |
| 5 | Measurement Software | Farad | EZ-EMC Ver.NB-03A 1-01 | N/A | N/A |
| 6 | Cable | N/A | RG223 | 12m | Mar. 23, 2019 |

Remark: “N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

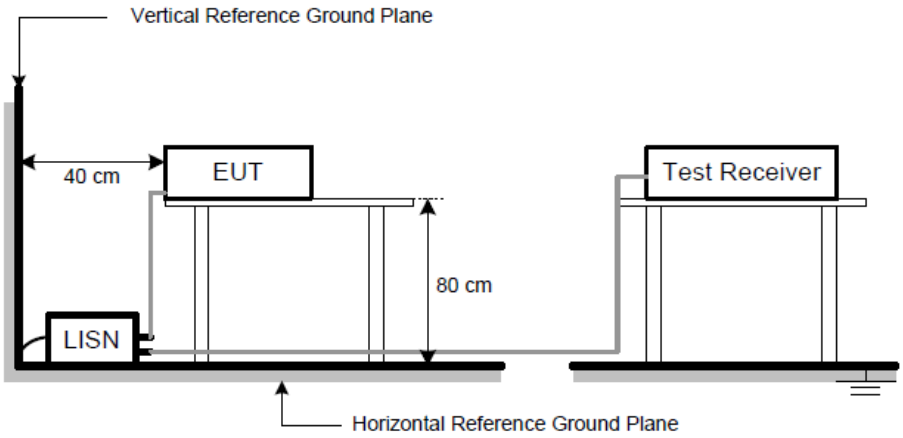
### 4.1.3 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.
f. First the whole spectrum of emission caused by equipment under test(EUT) is recorded with Detector set to peak. Peak value recorded in table if the margin from QP Limit is larger than 2dB,otherwise,QP value is recorded, Measuring frequency range from 150KHz to 30MHz.

### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

### 4.1.5 TEST SETUP

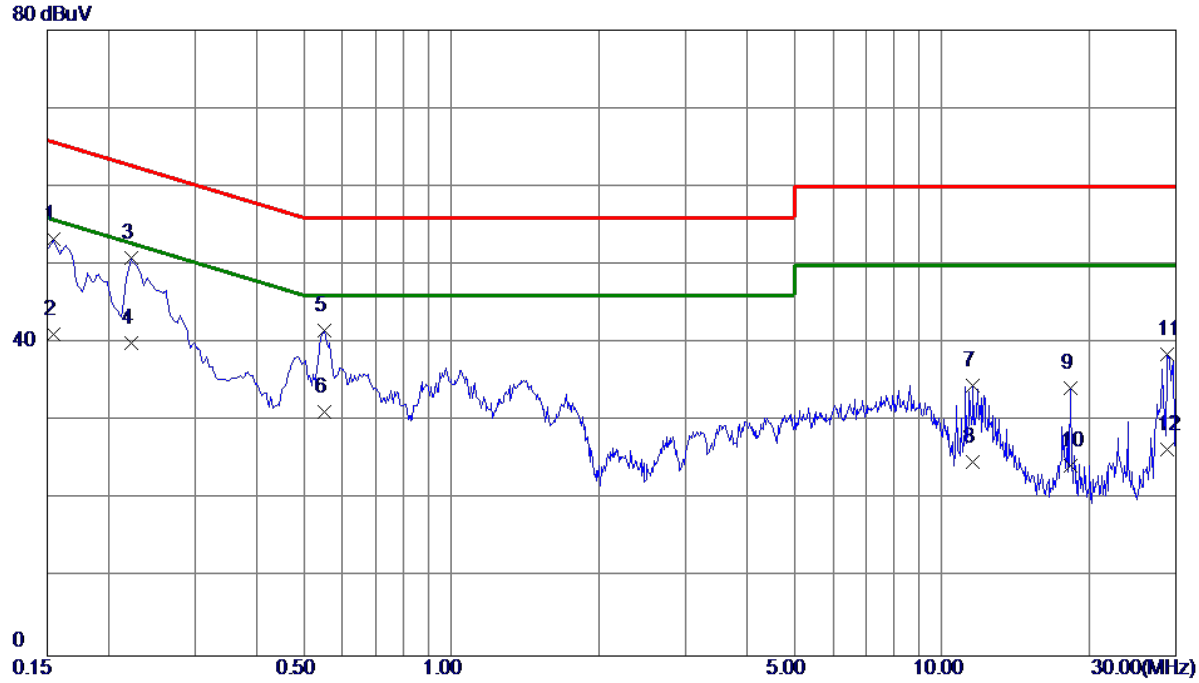



### 4.1.6 TEST RESULTS

Remark

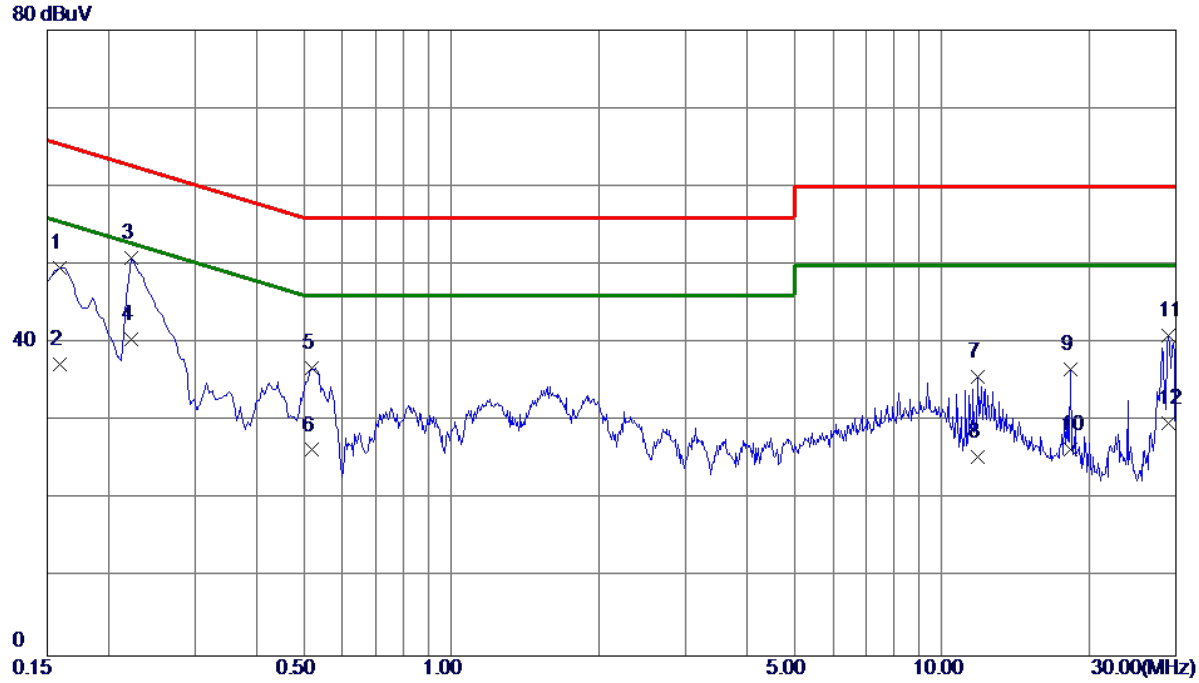
(1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9 kHz; SPA setting in RBW=10 kHz, VBW =10 kHz, Swp. Time = 0.3 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10 kHz, VBW=10 kHz, Swp. Time =0.3 sec./MHz.
(2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 25°C | Relative Humidity | 53% |
| Test Voltage | AC 120V/60Hz | Phase | Line |
| Test Mode | D-SUB 3840*2160/60Hz | | |
| Test Engineer | Jivey Jiang | | |



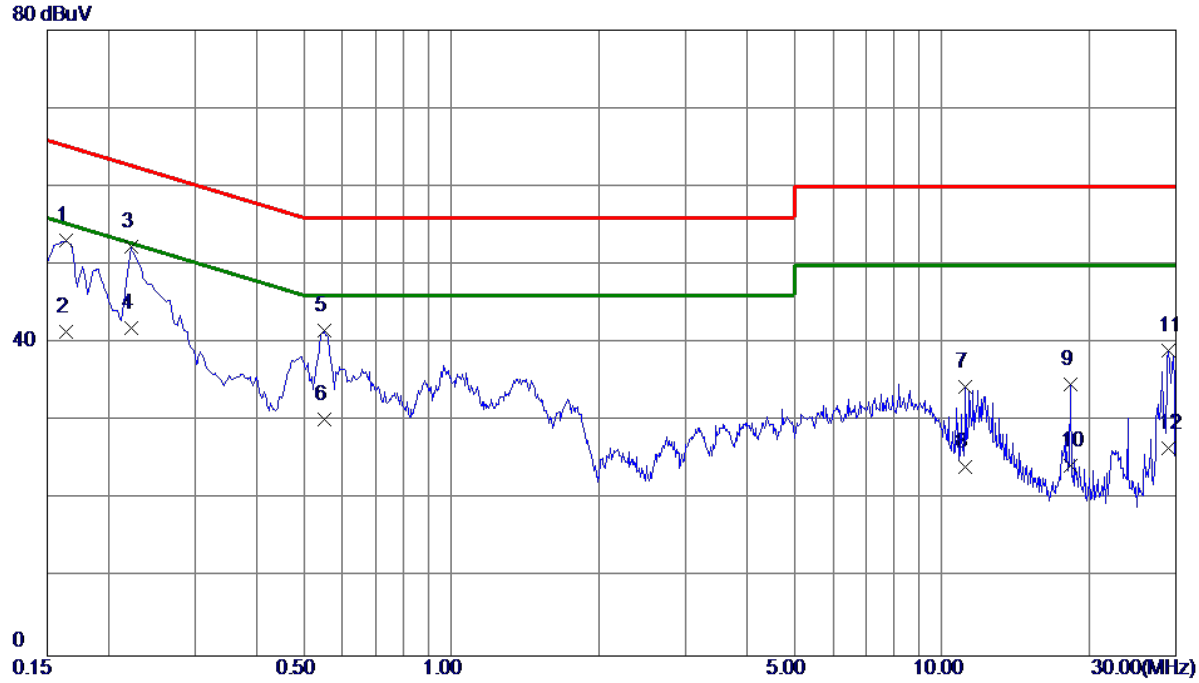

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector |
| 1 | 0.1545 | 43.49 | 9.82 | 53.31 | 65.75 | -12.44 | QP |
| 2 | 0.1545 | 31.35 | 9.82 | 41.17 | 55.75 | -14.58 | AVG |
| 3 * | 0.2220 | 41.02 | 9.82 | 50.84 | 62.74 | -11.90 | QP |
| 4 | 0.2220 | 30.17 | 9.82 | 39.99 | 52.74 | -12.75 | AVG |
| 5 | 0.5505 | 31.75 | 9.81 | 41.56 | 56.00 | -14.44 | QP |
| 6 | 0.5505 | 21.42 | 9.81 | 31.23 | 46.00 | -14.77 | AVG |
| 7 | 11.5890 | 24.03 | 10.57 | 34.60 | 60.00 | -25.40 | QP |
| 8 | 11.5890 | 14.16 | 10.57 | 24.73 | 50.00 | -25.27 | AVG |
| 9 | 18.2850 | 23.18 | 11.04 | 34.22 | 60.00 | -25.78 | QP |
| 10 | 18.2850 | 13.35 | 11.04 | 24.39 | 50.00 | -25.61 | AVG |
| 11 | 28.7970 | 27.55 | 11.08 | 38.63 | 60.00 | -21.37 | QP |
| 12 | 28.7970 | 15.28 | 11.08 | 26.36 | 50.00 | -23.64 | AVG |

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 25°C | Relative Humidity | 53% |
| Test Voltage | AC 120V/60Hz | Phase | Neutral |
| Test Mode | D-SUB 3840*2160/60Hz | | |
| Test Engineer | Jivey Jiang | | |



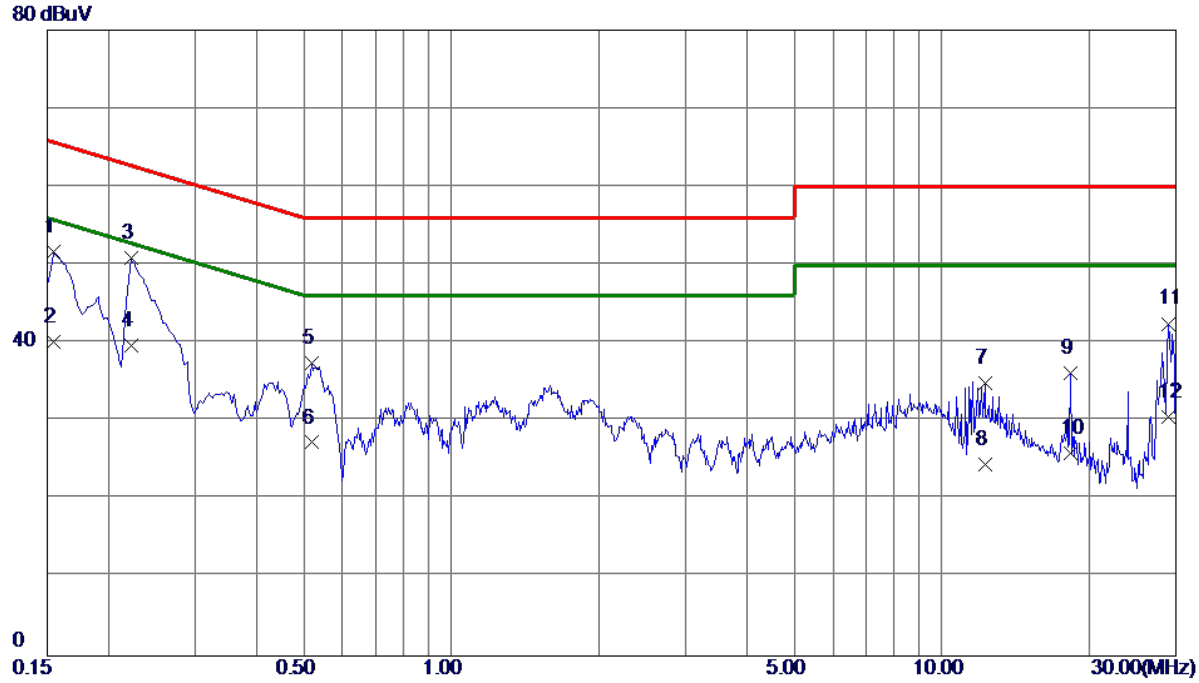

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector |
| 1 | 0.1590 | 39.72 | 9.91 | 49.63 | 65.52 | -15.89 | QP |
| 2 | 0.1590 | 27.41 | 9.91 | 37.32 | 55.52 | -18.20 | AVG |
| 3 * | 0.2220 | 41.04 | 9.91 | 50.95 | 62.74 | -11.79 | QP |
| 4 | 0.2220 | 30.63 | 9.91 | 40.54 | 52.74 | -12.20 | AVG |
| 5 | 0.5190 | 26.83 | 9.95 | 36.78 | 56.00 | -19.22 | QP |
| 6 | 0.5190 | 16.37 | 9.95 | 26.32 | 46.00 | -19.68 | AVG |
| 7 | 11.8095 | 24.75 | 10.87 | 35.62 | 60.00 | -24.38 | QP |
| 8 | 11.8095 | 14.50 | 10.87 | 25.37 | 50.00 | -24.63 | AVG |
| 9 | 18.2850 | 25.31 | 11.35 | 36.66 | 60.00 | -23.34 | QP |
| 10 | 18.2850 | 15.07 | 11.35 | 26.42 | 50.00 | -23.58 | AVG |
| 11 | 28.8825 | 29.43 | 11.49 | 40.92 | 60.00 | -19.08 | QP |
| 12 | 28.8825 | 18.24 | 11.49 | 29.73 | 50.00 | -20.27 | AVG |

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 25°C | Relative Humidity | 53% |
| Test Voltage | AC 120V/60Hz | Phase | Line |
| Test Mode | HDMI1 3840*2160/60Hz | | |
| Test Engineer | Jivey Jiang | | |



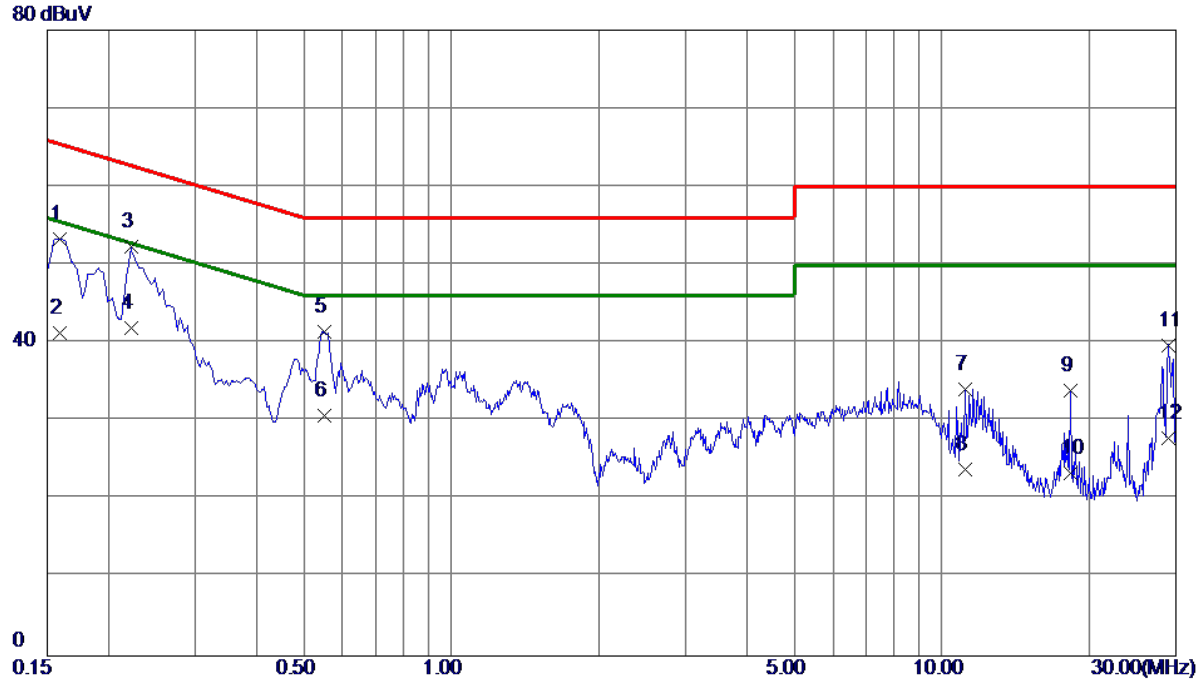

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector |
| 1 | 0.1635 | 43.24 | 9.82 | 53.06 | 65.28 | -12.22 | QP |
| 2 | 0.1635 | 31.59 | 9.82 | 41.41 | 55.28 | -13.87 | AVG |
| 3 * | 0.2220 | 42.54 | 9.82 | 52.36 | 62.74 | -10.38 | QP |
| 4 | 0.2220 | 32.13 | 9.82 | 41.95 | 52.74 | -10.79 | AVG |
| 5 | 0.5505 | 31.86 | 9.81 | 41.67 | 56.00 | -14.33 | QP |
| 6 | 0.5505 | 20.48 | 9.81 | 30.29 | 46.00 | -15.71 | AVG |
| 7 | 11.1615 | 23.78 | 10.55 | 34.33 | 60.00 | -25.67 | QP |
| 8 | 11.1615 | 13.67 | 10.55 | 24.22 | 50.00 | -25.78 | AVG |
| 9 | 18.2850 | 23.65 | 11.04 | 34.69 | 60.00 | -25.31 | QP |
| 10 | 18.2850 | 13.26 | 11.04 | 24.30 | 50.00 | -25.70 | AVG |
| 11 | 28.9500 | 27.98 | 11.08 | 39.06 | 60.00 | -20.94 | QP |
| 12 | 28.9500 | 15.53 | 11.08 | 26.61 | 50.00 | -23.39 | AVG |

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 25°C | Relative Humidity | 53% |
| Test Voltage | AC 120V/60Hz | Phase | Neutral |
| Test Mode | HDMI1 3840*2160/60Hz | | |
| Test Engineer | Jivey Jiang | | |



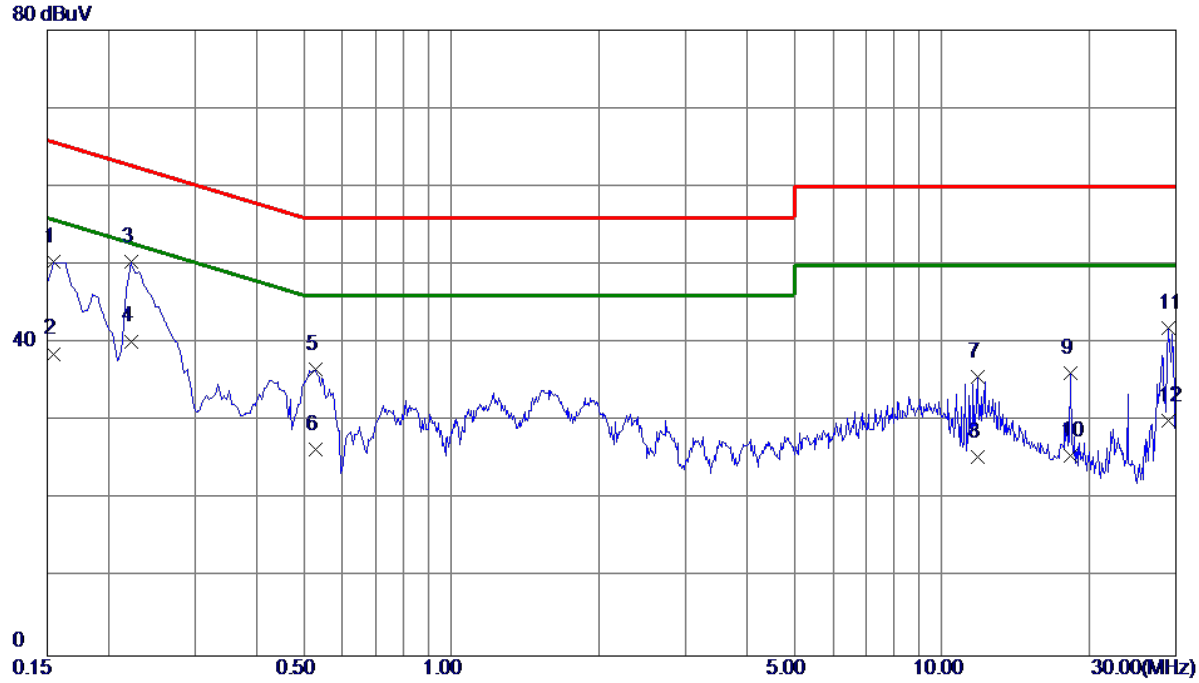

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector |
| 1 | 0.1545 | 41.78 | 9.91 | 51.69 | 65.75 | -14.06 | QP |
| 2 | 0.1545 | 30.31 | 9.91 | 40.22 | 55.75 | -15.53 | AVG |
| 3 * | 0.2220 | 41.03 | 9.91 | 50.94 | 62.74 | -11.80 | QP |
| 4 | 0.2220 | 29.75 | 9.91 | 39.66 | 52.74 | -13.08 | AVG |
| 5 | 0.5190 | 27.56 | 9.95 | 37.51 | 56.00 | -18.49 | QP |
| 6 | 0.5190 | 17.33 | 9.95 | 27.28 | 46.00 | -18.72 | AVG |
| 7 | 12.2415 | 23.96 | 10.90 | 34.86 | 60.00 | -25.14 | QP |
| 8 | 12.2415 | 13.60 | 10.90 | 24.50 | 50.00 | -25.50 | AVG |
| 9 | 18.2850 | 24.80 | 11.35 | 36.15 | 60.00 | -23.85 | QP |
| 10 | 18.2850 | 14.52 | 11.35 | 25.87 | 50.00 | -24.13 | AVG |
| 11 | 28.9545 | 30.99 | 11.49 | 42.48 | 60.00 | -17.52 | QP |
| 12 | 28.9545 | 19.03 | 11.49 | 30.52 | 50.00 | -19.48 | AVG |

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 25°C | Relative Humidity | 53% |
| Test Voltage | AC 120V/60Hz | Phase | Line |
| Test Mode | HDMI1 2160P | | |
| Test Engineer | Jivey Jiang | | |




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector |
| 1 | 0.1590 | 43.51 | 9.82 | 53.33 | 65.52 | -12.19 | QP |
| 2 | 0.1590 | 31.42 | 9.82 | 41.24 | 55.52 | -14.28 | AVG |
| 3 * | 0.2220 | 42.47 | 9.82 | 52.29 | 62.74 | -10.45 | QP |
| 4 | 0.2220 | 32.15 | 9.82 | 41.97 | 52.74 | -10.77 | AVG |
| 5 | 0.5505 | 31.70 | 9.81 | 41.51 | 56.00 | -14.49 | QP |
| 6 | 0.5505 | 20.84 | 9.81 | 30.65 | 46.00 | -15.35 | AVG |
| 7 | 11.1570 | 23.59 | 10.55 | 34.14 | 60.00 | -25.86 | QP |
| 8 | 11.1570 | 13.27 | 10.55 | 23.82 | 50.00 | -26.18 | AVG |
| 9 | 18.2850 | 22.89 | 11.04 | 33.93 | 60.00 | -26.07 | QP |
| 10 | 18.2850 | 12.35 | 11.04 | 23.39 | 50.00 | -26.61 | AVG |
| 11 | 28.8780 | 28.68 | 11.08 | 39.76 | 60.00 | -20.24 | QP |
| 12 | 28.8780 | 16.71 | 11.08 | 27.79 | 50.00 | -22.21 | AVG |

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 25°C | Relative Humidity | 53% |
| Test Voltage | AC 120V/60Hz | Phase | Neutral |
| Test Mode | HDMI1 2160P | | |
| Test Engineer | Jivey Jiang | | |




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector |
| 1 | 0.1544 | 40.45 | 9.91 | 50.36 | 65.76 | -15.40 | QP |
| 2 | 0.1544 | 28.73 | 9.91 | 38.64 | 55.76 | -17.12 | AVG |
| 3 * | 0.2220 | 40.55 | 9.91 | 50.46 | 62.74 | -12.28 | QP |
| 4 | 0.2220 | 30.33 | 9.91 | 40.24 | 52.74 | -12.50 | AVG |
| 5 | 0.5280 | 26.66 | 9.95 | 36.61 | 56.00 | -19.39 | QP |
| 6 | 0.5280 | 16.52 | 9.95 | 26.47 | 46.00 | -19.53 | AVG |
| 7 | 11.8050 | 24.83 | 10.87 | 35.70 | 60.00 | -24.30 | QP |
| 8 | 11.8050 | 14.57 | 10.87 | 25.44 | 50.00 | -24.56 | AVG |
| 9 | 18.2850 | 24.83 | 11.35 | 36.18 | 60.00 | -23.82 | QP |
| 10 | 18.2850 | 14.29 | 11.35 | 25.64 | 50.00 | -24.36 | AVG |
| 11 | 28.8780 | 30.49 | 11.49 | 41.98 | 60.00 | -18.02 | QP |
| 12 | 28.8780 | 18.61 | 11.49 | 30.10 | 50.00 | -19.90 | AVG |

## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

**Below 1 GHz**
**Measurement Method and Applied Limits:**
**ANSI C63.4:**

| Frequency (MHz) | Class A (at 10m) | | Class B (at 3m) | |
|---|---|---|---|---|
| | (uV/m) Field strength | (dBuV/m) Field strength | (uV/m) Field strength | (dBuV/m) Field strength |
| 30 - 88 | 90 | 39 | 100 | 40 |
| 88 - 216 | 150 | 43.5 | 150 | 43.5 |
| 216 - 960 | 210 | 46.4 | 200 | 46 |
| Above 960 | 300 | 49.5 | 500 | 54 |

**Above 1 GHz**
**Measurement Method and Applied Limits:**
**ANSI C63.4:**

| Frequency (MHz) | Class A | | | | Class B | |
|---|---|---|---|---|---|---|
| | (dBuV/m) (at 3m) | | (dBuV/m) (at 10m) | | (dBuV/m) (at 3m) | |
| | Peak | Average | Peak | Average | Peak | Average |
| Above 1000 | 80 | 60 | 69.5 | 49.5 | 74 | 54 |

**FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)**

| Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz) | Range (MHz) |
|---|---|
| Below 1.705 | 30 |
| 1.705 - 108 | 1000 |
| 108 - 500 | 2000 |
| 500 - 1000 | 5000 |
| Above 1000 | $5^{th}$ harmonic of the highest frequency or 40 GHz, whichever is lower |

NOTE:
(1) The limit for radiated test was performed according to as following:
FCC Part 15, Subpart B; ICES-003 Issue 6 :2016 (updated April 2017).
(2) The tighter limit applies at the band edges.
(3) Emission level (dBuV/m) = 20log Emission level (uV/m).
3m Emission level = 10m Emission level + 20log(10m/3m).
(4) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

### 4.2.2 MEASUREMENT INSTRUMENTS LIST

**Below 1GHz:**

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|---|---|---|---|---|---|
| 1 | Receiver | Keysight | N9038A | MY54450004 | Aug. 11, 2019 |
| 2 | MXE EMI Receiver | Agilent | N9038A | MY53220133 | Mar. 11, 2019 |
| 3 | Pre-Amplifier | EMC INSTRUMENT | EMC 9135 | 980284 | Mar. 11, 2019 |
| 4 | Pre-Amplifier | EMC INSTRUMENT | EMC 9135 | 980283 | Mar. 11, 2019 |
| 5 | Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | 946 | Nov. 24, 2019 |
| 6 | Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | 947 | Nov. 24, 2019 |
| 7 | Cable | emci | LMR-400(5m+11m+15m) | N/A | Aug. 07, 2019 |
| 8 | Cable | emci | LMR-400(5m+8m+8m) | N/A | Aug. 07, 2019 |
| 9 | Measurement Software | Farad | EZ-EMC Ver.BTL-2ANT-1 | N/A | N/A |
| 10 | Multi-Device Controller | ETS-Lindgren | 2090 | N/A | N/A |
| 11 | Attenuator | EMCI | EMCI-N-6-06 | N0670 | Nov. 24, 2019 |
| 12 | Attenuator | SHX | EMCI-N-6-06 | N0671 | Nov. 24, 2019 |

Remark: “N/A” denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

**Above 1GHz:**

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|---|---|---|---|---|---|
| 1 | Horn Antenna | EMCO | 3115 | 9605-4803 | Mar. 11, 2019 |
| 2 | Amplifier | Agilent | 8449B | 3008A02584 | Aug. 11, 2019 |
| 3 | MXE EMI Receiver | Agilent | N9038A | MY53220133 | Mar. 11, 2019 |
| 4 | Measurement Software | Farad | EZ-EMC Ver.BTL-2ANT-1 | N/A | N/A |
| 5 | Cable | MIcable Inc. | B10-01-01-15M(10MHz~26.5GHz) | 18047122 | May 25, 2019 |
| 6 | Multi-Device Controller | ETS-Lindgren | 2090 | N/A | N/A |
| 7 | Controller | MF | MF-7802 | MF780208159 | N/A |
| 8 | Cable | MIcable Inc. | B10-01-01-5M(10MHz~26.5GHz) | 18047123 | May 25, 2019 |

Remark: “N/A” denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

### 4.2.3 TEST PROCEDURE

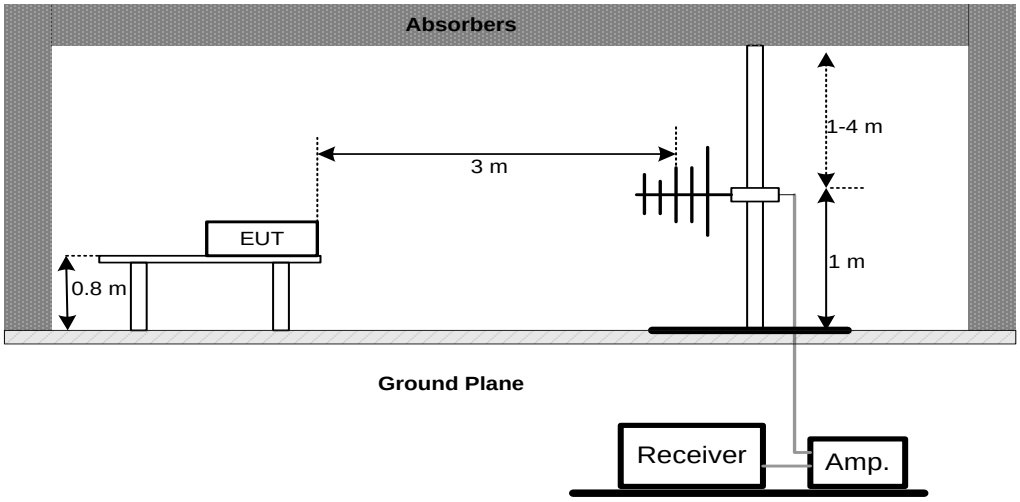
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1 GHz)
i. For the actual test configuration, please refer to the related Item - Block Diagram of system tested (please refer to 3.3).

### 4.2.4 DEVIATION FROM TEST STANDARD

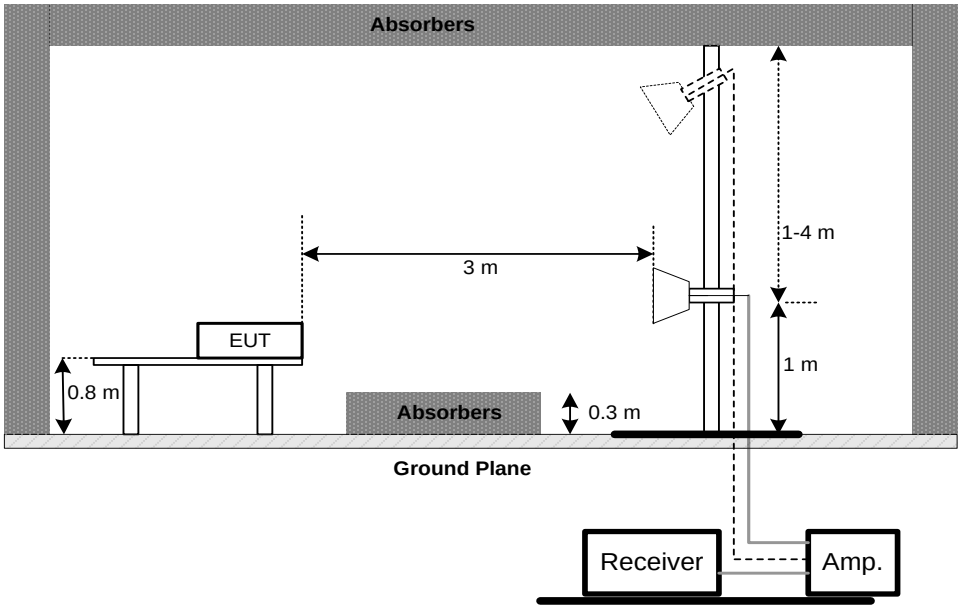
No deviation

### 4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz




(B) Radiated Emission Test Set-Up Frequency Above 1 GHz

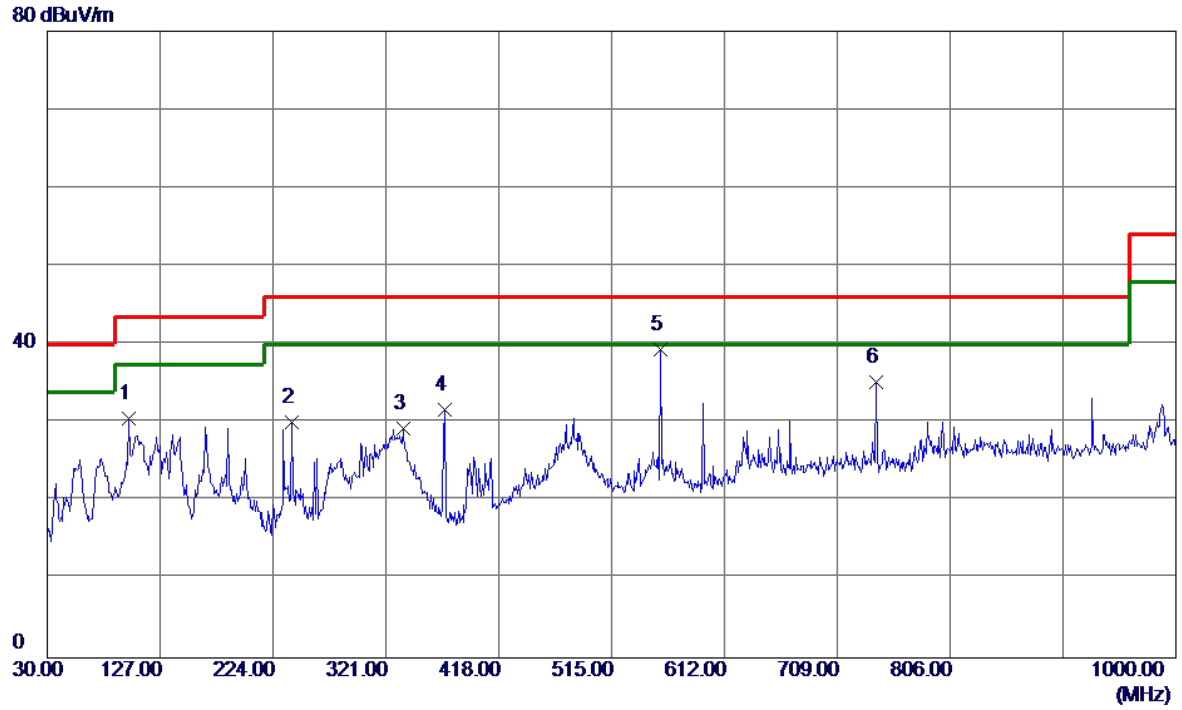



### 4.2.6 TEST RESULTS-BELOW 1 GHZ

Remark：

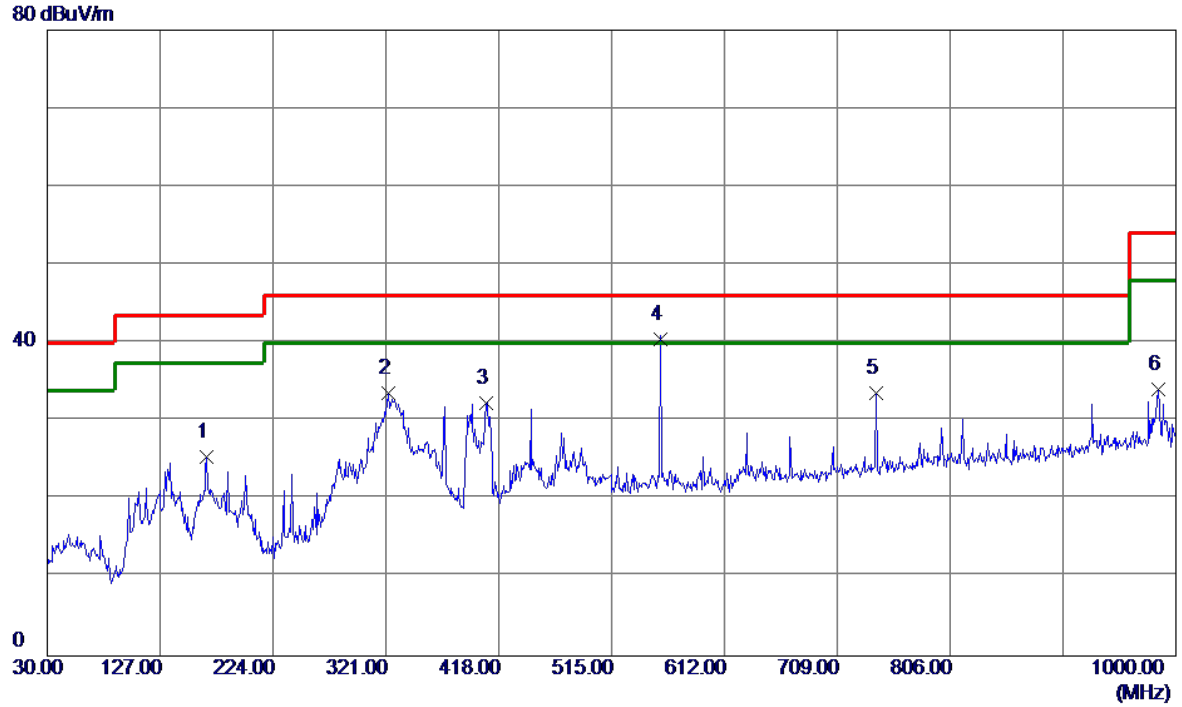
(1) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
(2) Measuring frequency range from 30 MHz to 1000 MHz
(3) If the peak scan value lower limit more than 20 dB, then this signal data does not show in table.

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 25°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
| Test Mode | D-SUB 3840*2160/60Hz | | |
| Test Engineer | Jivey Jiang | | |



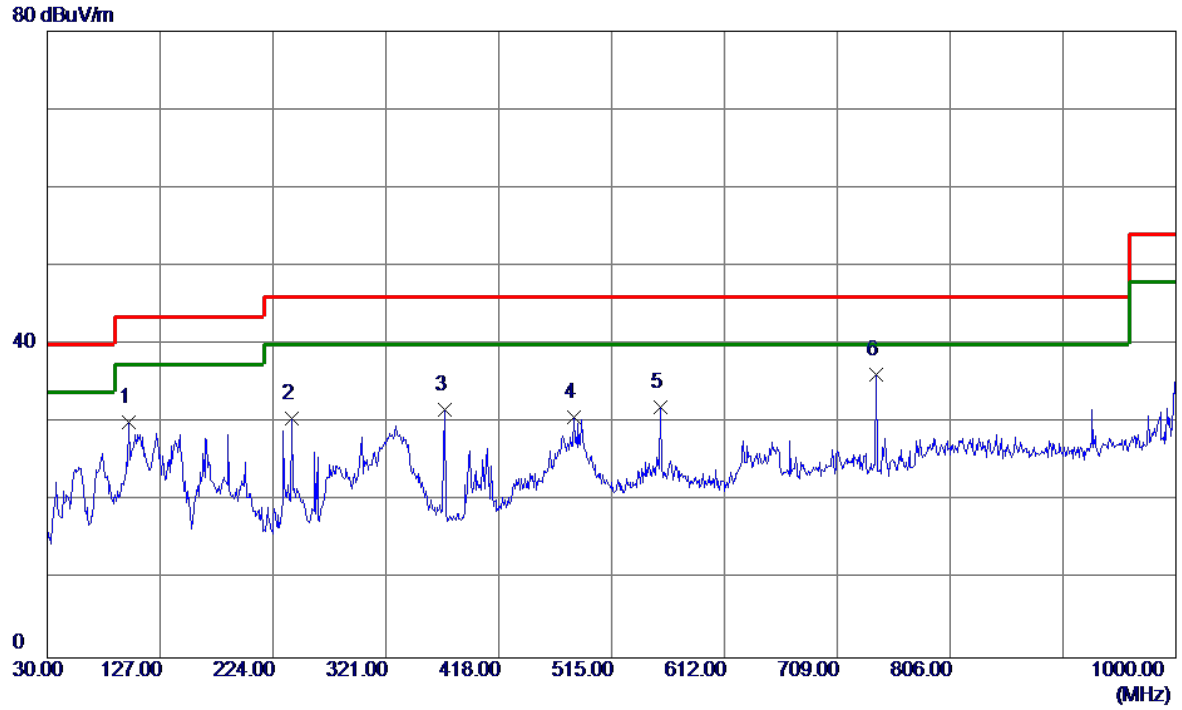

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | 99.8399 | 51.52 | -20.98 | 30.54 | 43.50 | -12.96 | QP |
| 2 | 240.0050 | 47.49 | -17.40 | 30.09 | 46.00 | -15.91 | QP |
| 3 | 336.0350 | 43.50 | -14.23 | 29.27 | 46.00 | -16.73 | QP |
| 4 | 371.4400 | 45.23 | -13.57 | 31.66 | 46.00 | -14.34 | QP |
| 5 * | 556.7100 | 49.02 | -9.71 | 39.31 | 46.00 | -6.69 | QP |
| 6 | 742.4650 | 41.66 | -6.41 | 35.25 | 46.00 | -10.75 | QP |

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 25°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
| Test Mode | D-SUB 3840*2160/60Hz | | |
| Test Engineer | Jivey Jiang | | |



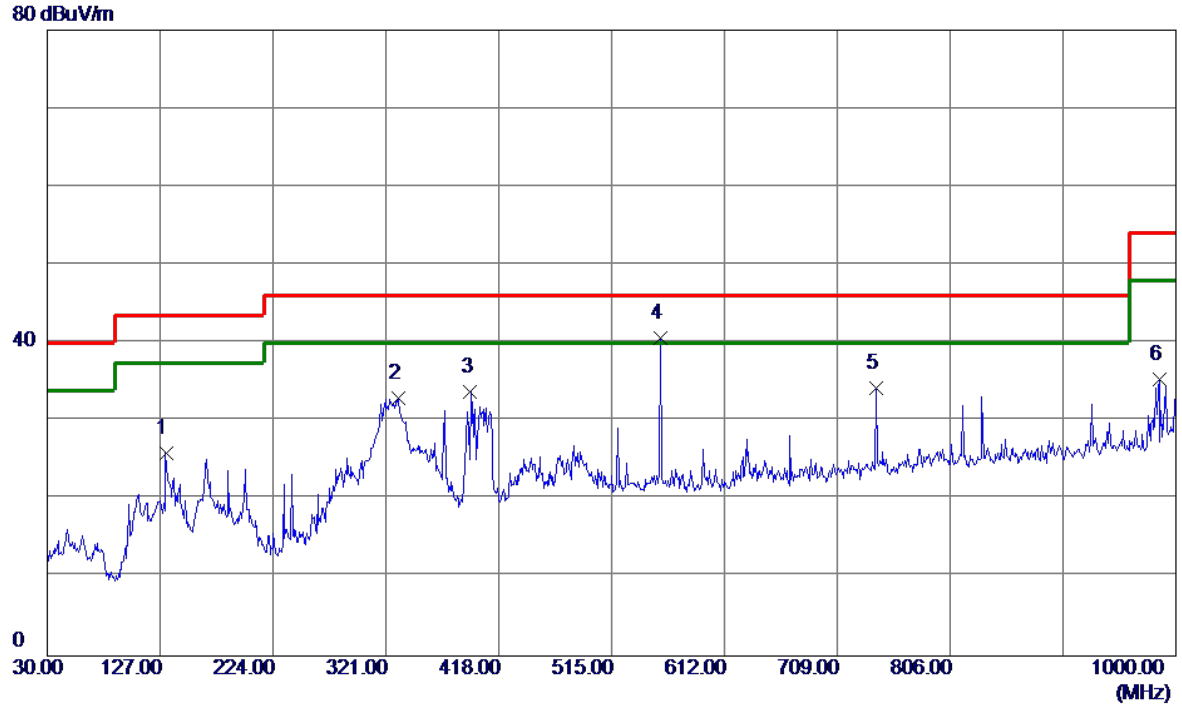

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | 166.7700 | 41.74 | -16.25 | 25.49 | 43.50 | -18.01 | QP |
| 2 | 323.4250 | 47.95 | -14.37 | 33.58 | 46.00 | -12.42 | QP |
| 3 | 406.8450 | 45.04 | -12.72 | 32.32 | 46.00 | -13.68 | QP |
| 4 * | 556.7100 | 50.21 | -9.71 | 40.50 | 46.00 | -5.50 | QP |
| 5 | 742.4650 | 40.03 | -6.41 | 33.62 | 46.00 | -12.38 | QP |
| 6 | 984.4800 | 37.15 | -3.12 | 34.03 | 54.00 | -19.97 | QP |

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 25°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
| Test Mode | HDMI1 3840*2160/60Hz | | |
| Test Engineer | Jivey Jiang | | |



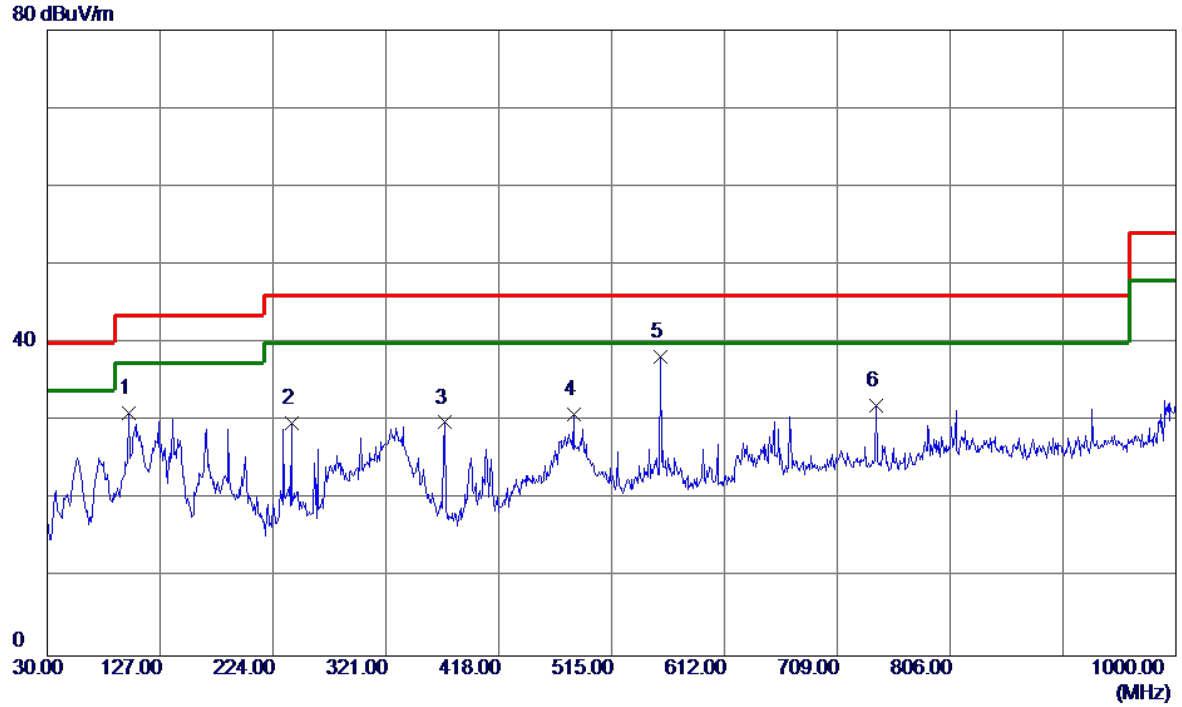

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | 99.8399 | 51.07 | -20.98 | 30.09 | 43.50 | -13.41 | QP |
| 2 | 240.0050 | 47.91 | -17.40 | 30.51 | 46.00 | -15.49 | QP |
| 3 | 371.4400 | 45.27 | -13.57 | 31.70 | 46.00 | -14.30 | QP |
| 4 | 482.5050 | 41.67 | -10.95 | 30.72 | 46.00 | -15.28 | QP |
| 5 | 556.7100 | 41.74 | -9.71 | 32.03 | 46.00 | -13.97 | QP |
| 6 * | 742.4650 | 42.58 | -6.41 | 36.17 | 46.00 | -9.83 | QP |

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 25°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
| Test Mode | HDMI1 3840*2160/60Hz | | |
| Test Engineer | Jivey Jiang | | |



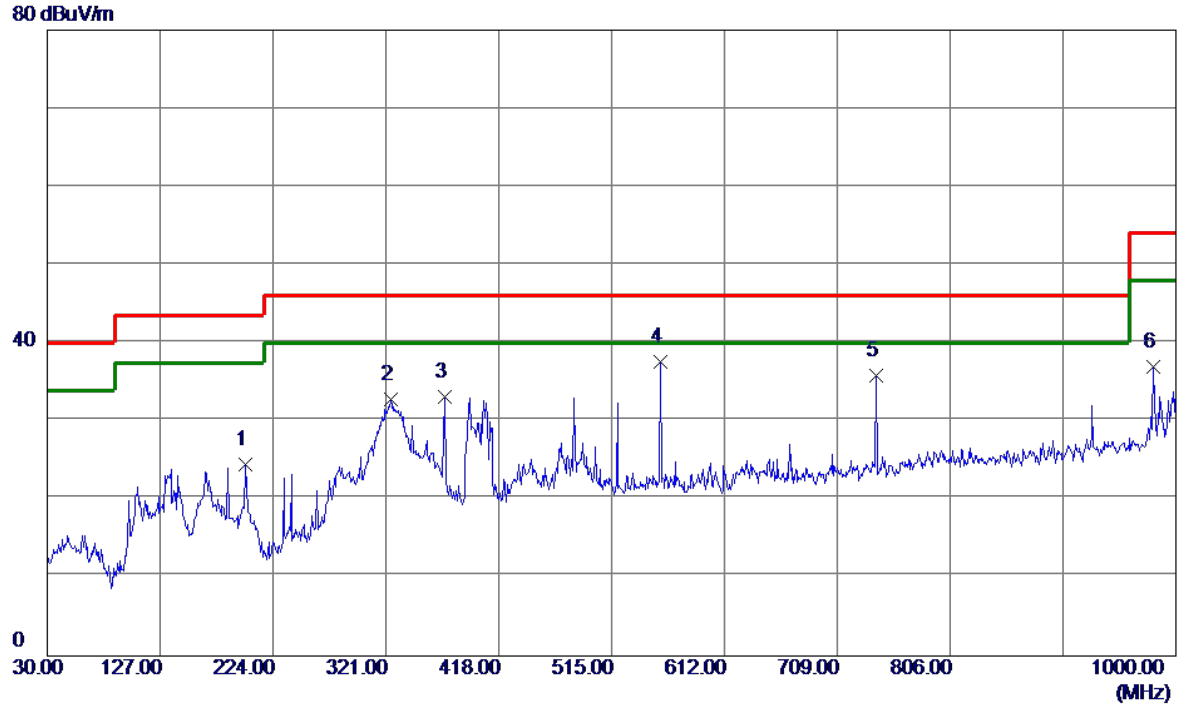

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | 131.8500 | 43.39 | -17.47 | 25.92 | 43.50 | -17.58 | QP |
| 2 | 331.6700 | 47.27 | -14.28 | 32.99 | 46.00 | -13.01 | QP |
| 3 | 393.7500 | 46.73 | -13.02 | 33.71 | 46.00 | -12.29 | QP |
| 4 * | 556.7100 | 50.38 | -9.71 | 40.67 | 46.00 | -5.33 | QP |
| 5 | 742.4650 | 40.69 | -6.41 | 34.28 | 46.00 | -11.72 | QP |
| 6 | 985.4500 | 38.51 | -3.11 | 35.40 | 54.00 | -18.60 | QP |

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 25°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
| Test Mode | HDMI1 2160P | | |
| Test Engineer | Jivey Jiang | | |




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | 99.8399 | 52.08 | -20.98 | 31.10 | 43.50 | -12.40 | QP |
| 2 | 240.0050 | 47.16 | -17.40 | 29.76 | 46.00 | -16.24 | QP |
| 3 | 371.4400 | 43.41 | -13.57 | 29.84 | 46.00 | -16.16 | QP |
| 4 | 482.5050 | 41.84 | -10.95 | 30.89 | 46.00 | -15.11 | QP |
| 5 * | 556.7100 | 47.90 | -9.71 | 38.19 | 46.00 | -7.81 | QP |
| 6 | 742.4650 | 38.47 | -6.41 | 32.06 | 46.00 | -13.94 | QP |

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 25°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
| Test Mode | HDMI1 2160P | | |
| Test Engineer | Jivey Jiang | | |



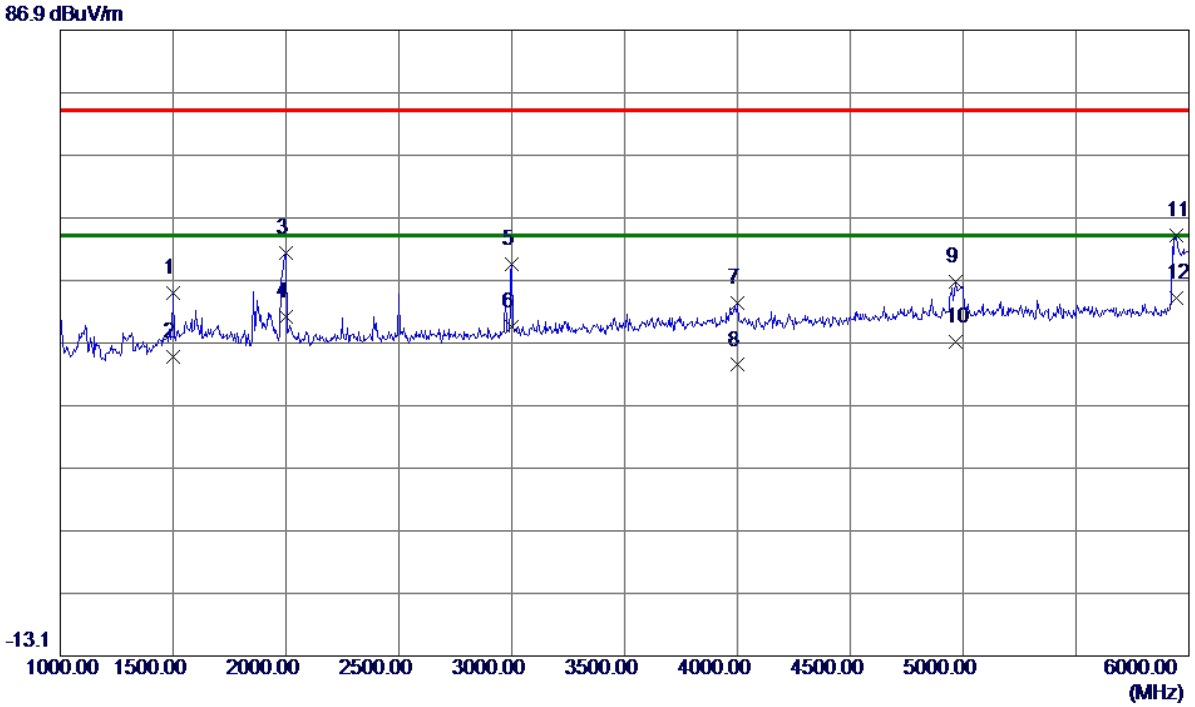

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | 200.7200 | 43.78 | -19.23 | 24.55 | 43.50 | -18.95 | QP |
| 2 | 325.3650 | 47.11 | -14.35 | 32.76 | 46.00 | -13.24 | QP |
| 3 | 371.4400 | 46.72 | -13.57 | 33.15 | 46.00 | -12.85 | QP |
| 4 * | 556.7100 | 47.29 | -9.71 | 37.58 | 46.00 | -8.42 | QP |
| 5 | 742.4650 | 42.24 | -6.41 | 35.83 | 46.00 | -10.17 | QP |
| 6 | 980.6000 | 40.08 | -3.17 | 36.91 | 54.00 | -17.09 | QP |

### 4.2.7 TEST RESULTS-ABOVE 1 GHZ

Remark：

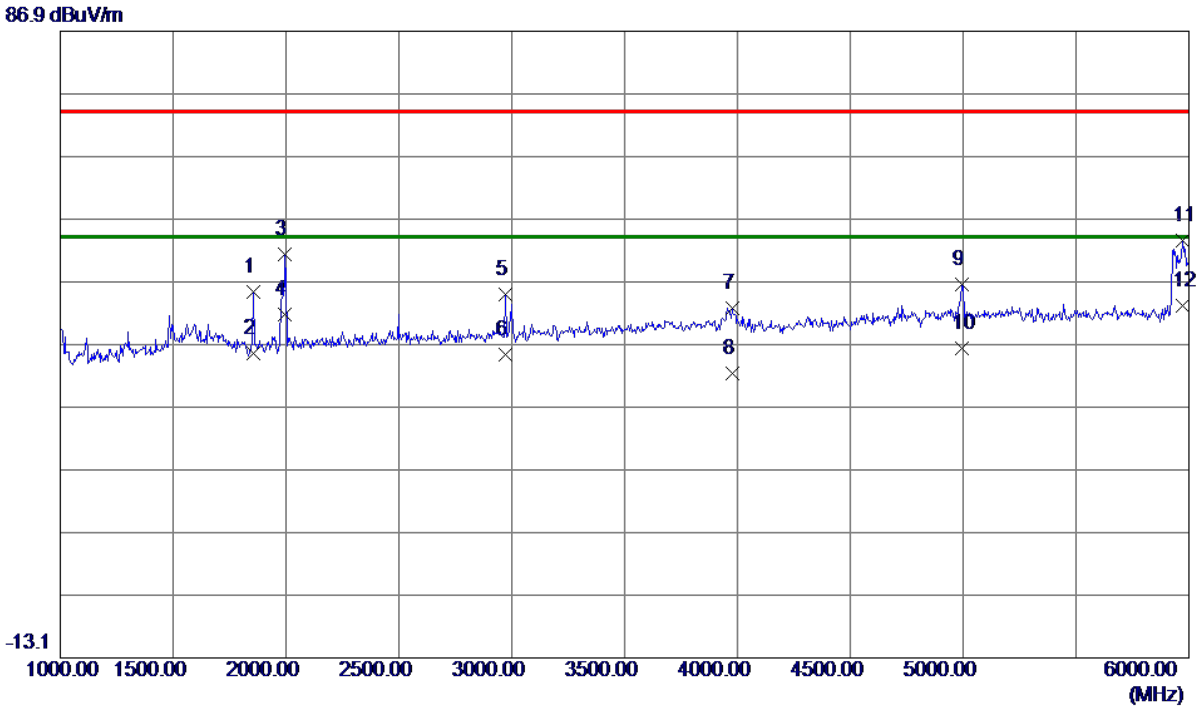
(1) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
(2) Radiated emissions measured in frequency range above 1000 MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
(3) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
(4) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 22°C | Relative Humidity | 55% |
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
| Test Mode | D-SUB 3840*2160/60Hz | | |
| Test Engineer | Jivey Jiang | | |



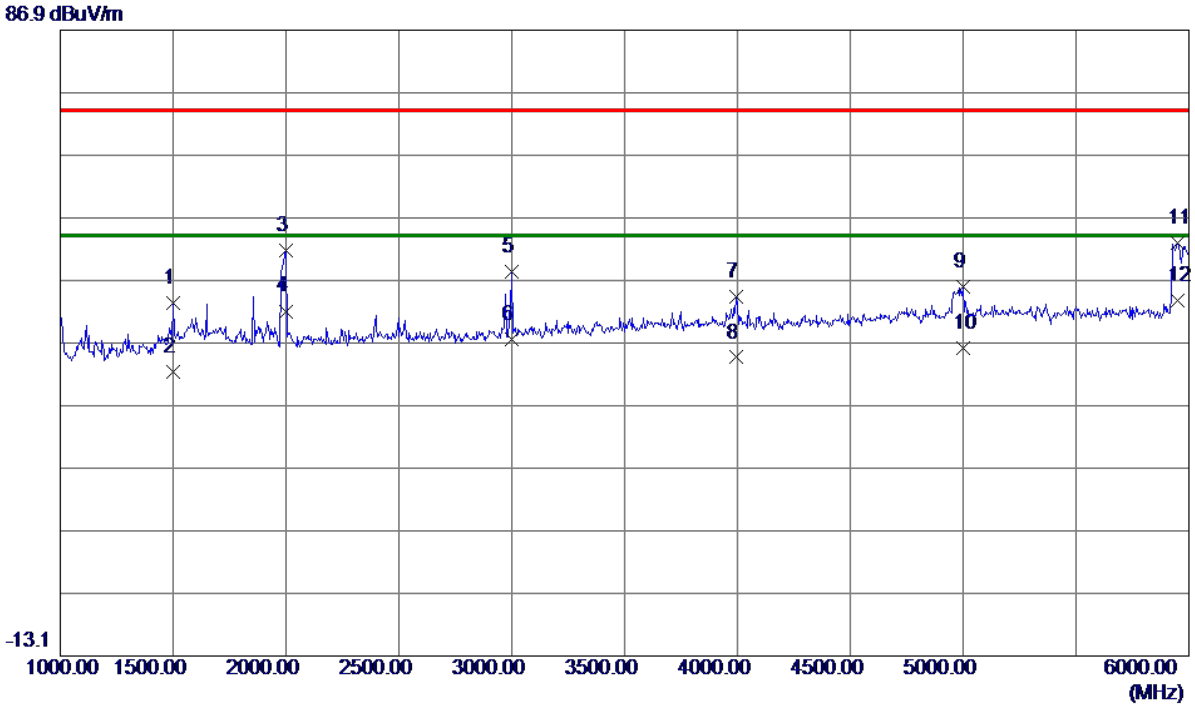

| No. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | 1500.0000 | 48.37 | -3.56 | 44.81 | 74.00 | -29.19 | Peak |
| 2 | 1500.0000 | 38.25 | -3.56 | 34.69 | 54.00 | -19.31 | AVG |
| 3 | 1997.5000 | 53.10 | -1.86 | 51.24 | 74.00 | -22.76 | Peak |
| 4 | 1997.5000 | 42.89 | -1.86 | 41.03 | 54.00 | -12.97 | AVG |
| 5 | 3000.0000 | 47.98 | 1.59 | 49.57 | 74.00 | -24.43 | Peak |
| 6 | 3000.0000 | 37.85 | 1.59 | 39.44 | 54.00 | -14.56 | AVG |
| 7 | 4000.0000 | 38.57 | 4.76 | 43.33 | 74.00 | -30.67 | Peak |
| 8 | 4000.0000 | 28.64 | 4.76 | 33.40 | 54.00 | -20.60 | AVG |
| 9 | 4965.0000 | 39.08 | 7.53 | 46.61 | 74.00 | -27.39 | Peak |
| 10 | 4965.0000 | 29.64 | 7.53 | 37.17 | 54.00 | -16.83 | AVG |
| 11 | 5945.0000 | 45.25 | 8.91 | 54.16 | 74.00 | -19.84 | Peak |
| 12 * | 5945.0000 | 35.14 | 8.91 | 44.05 | 54.00 | -9.95 | AVG |

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 22°C | Relative Humidity | 55% |
| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
| Test Mode | D-SUB 3840*2160/60Hz | | |
| Test Engineer | Jivey Jiang | | |



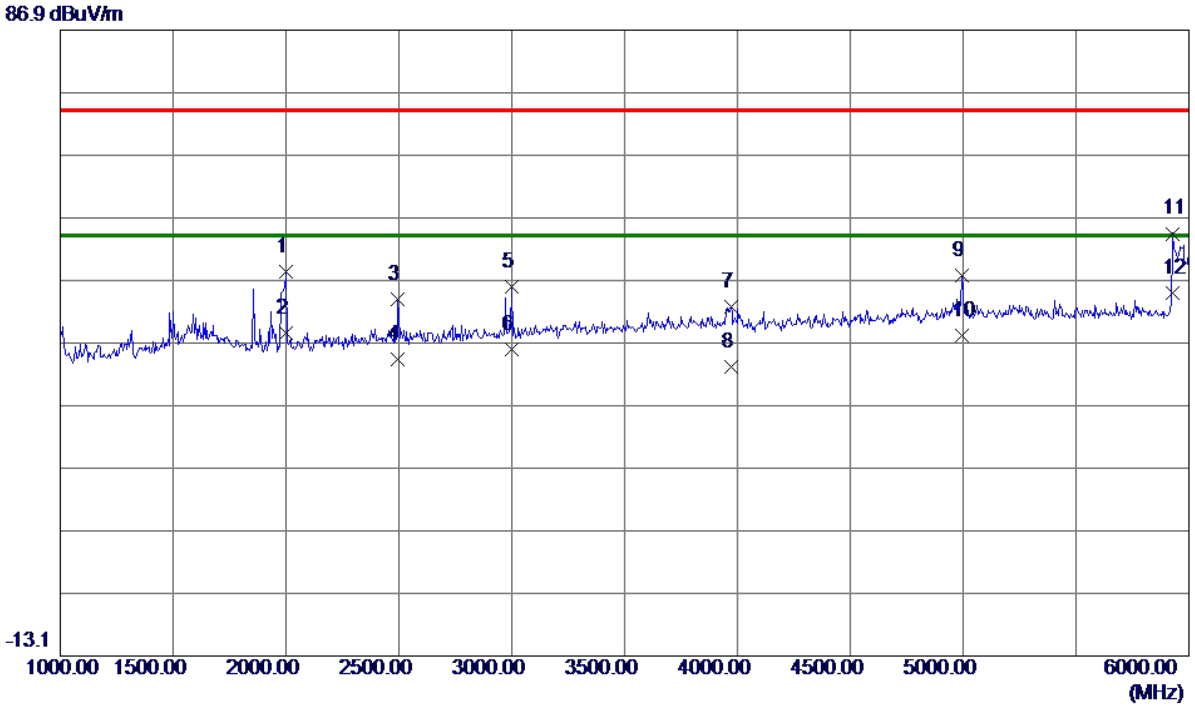

| No. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | 1855.0000 | 47.71 | -2.35 | 45.36 | 74.00 | -28.64 | Peak |
| 2 | 1855.0000 | 37.86 | -2.35 | 35.51 | 54.00 | -18.49 | AVG |
| 3 | 1995.0000 | 53.22 | -1.87 | 51.35 | 74.00 | -22.65 | Peak |
| 4 | 1995.0000 | 43.52 | -1.87 | 41.65 | 54.00 | -12.35 | AVG |
| 5 | 2970.0000 | 43.42 | 1.51 | 44.93 | 74.00 | -29.07 | Peak |
| 6 | 2970.0000 | 33.85 | 1.51 | 35.36 | 54.00 | -18.64 | AVG |
| 7 | 3977.5000 | 37.96 | 4.69 | 42.65 | 74.00 | -31.35 | Peak |
| 8 | 3977.5000 | 27.64 | 4.69 | 32.33 | 54.00 | -21.67 | AVG |
| 9 | 4992.5000 | 38.85 | 7.64 | 46.49 | 74.00 | -27.51 | Peak |
| 10 | 4992.5000 | 28.64 | 7.64 | 36.28 | 54.00 | -17.72 | AVG |
| 11 | 5970.0000 | 44.56 | 8.95 | 53.51 | 74.00 | -20.49 | Peak |
| 12 * | 5970.0000 | 34.15 | 8.95 | 43.10 | 54.00 | -10.90 | AVG |

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 22°C | Relative Humidity | 55% |
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
| Test Mode | HDMI1 3840*2160/60Hz | | |
| Test Engineer | Jivey Jiang | | |



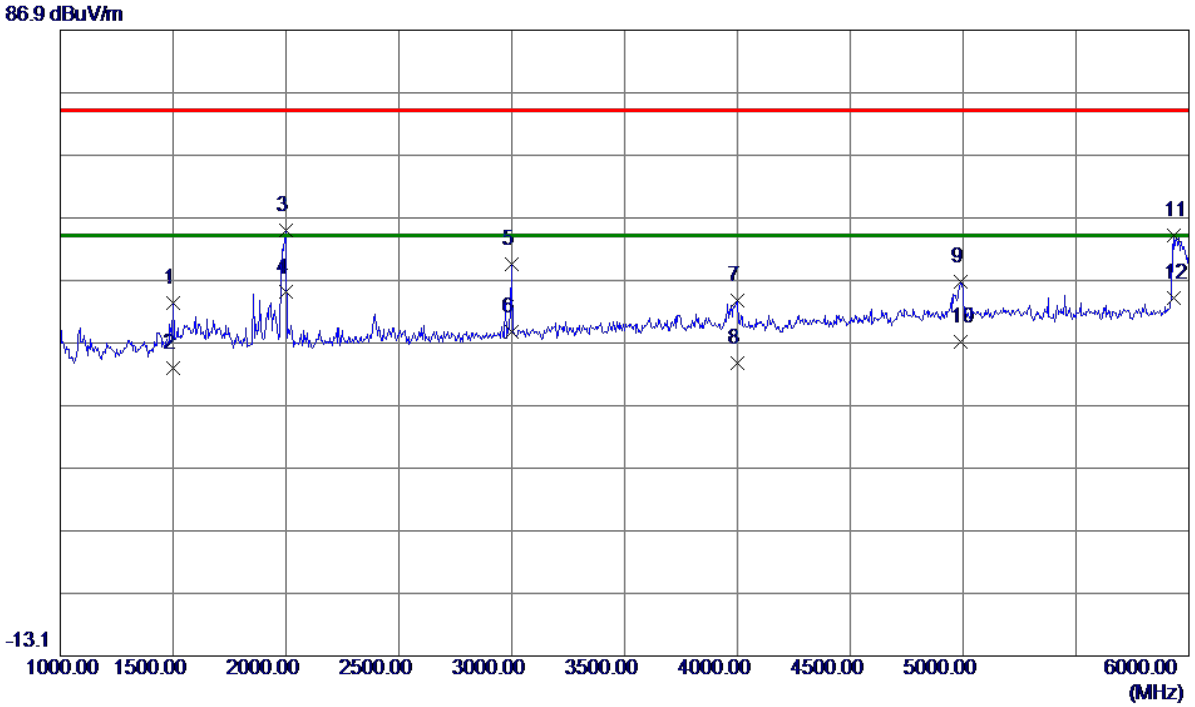

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | 1500.0000 | 46.79 | -3.56 | 43.23 | 74.00 | -30.77 | Peak |
| 2 | 1500.0000 | 35.79 | -3.56 | 32.23 | 54.00 | -21.77 | AVG |
| 3 | 2000.0000 | 53.59 | -1.85 | 51.74 | 74.00 | -22.26 | Peak |
| 4 | 2000.0000 | 43.85 | -1.85 | 42.00 | 54.00 | -12.00 | AVG |
| 5 | 3000.0000 | 46.74 | 1.59 | 48.33 | 74.00 | -25.67 | Peak |
| 6 | 3000.0000 | 35.85 | 1.59 | 37.44 | 54.00 | -16.56 | AVG |
| 7 | 3995.0000 | 39.53 | 4.74 | 44.27 | 74.00 | -29.73 | Peak |
| 8 | 3995.0000 | 29.86 | 4.74 | 34.60 | 54.00 | -19.40 | AVG |
| 9 | 5000.0000 | 38.30 | 7.67 | 45.97 | 74.00 | -28.03 | Peak |
| 10 | 5000.0000 | 28.46 | 7.67 | 36.13 | 54.00 | -17.87 | AVG |
| 11 | 5947.5000 | 44.02 | 8.91 | 52.93 | 74.00 | -21.07 | Peak |
| 12 * | 5947.5000 | 34.81 | 8.91 | 43.72 | 54.00 | -10.28 | AVG |

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 22°C | Relative Humidity | 55% |
| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
| Test Mode | HDMI1 3840*2160/60Hz | | |
| Test Engineer | Jivey Jiang | | |



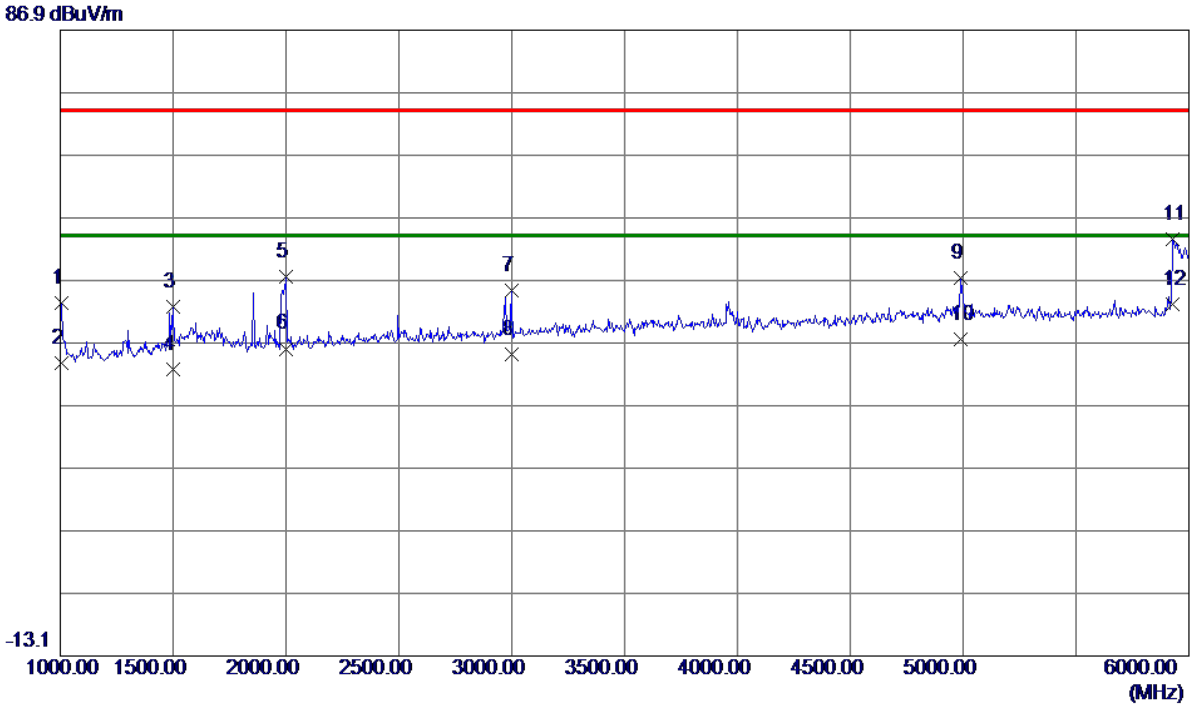

| No. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | 2000.0000 | 50.20 | -1.85 | 48.35 | 74.00 | -25.65 | Peak |
| 2 | 2000.0000 | 40.27 | -1.85 | 38.42 | 54.00 | -15.58 | AVG |
| 3 | 2495.0000 | 43.65 | 0.17 | 43.82 | 74.00 | -30.18 | Peak |
| 4 | 2495.0000 | 34.18 | 0.17 | 34.35 | 54.00 | -19.65 | AVG |
| 5 | 3000.0000 | 44.24 | 1.59 | 45.83 | 74.00 | -28.17 | Peak |
| 6 | 3000.0000 | 34.29 | 1.59 | 35.88 | 54.00 | -18.12 | AVG |
| 7 | 3970.0000 | 38.06 | 4.67 | 42.73 | 74.00 | -31.27 | Peak |
| 8 | 3970.0000 | 28.49 | 4.67 | 33.16 | 54.00 | -20.84 | AVG |
| 9 | 4992.5000 | 40.14 | 7.64 | 47.78 | 74.00 | -26.22 | Peak |
| 10 | 4992.5000 | 30.52 | 7.64 | 38.16 | 54.00 | -15.84 | AVG |
| 11 | 5930.0000 | 45.52 | 8.88 | 54.40 | 74.00 | -19.60 | Peak |
| 12 * | 5930.0000 | 35.96 | 8.88 | 44.84 | 54.00 | -9.16 | AVG |

| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 22°C | Relative Humidity | 55% |
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
| Test Mode | HDMI1 2160P | | |
| Test Engineer | Jivey Jiang | | |




| No. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | 1500.0000 | 46.88 | -3.56 | 43.32 | 74.00 | -30.68 | Peak |
| 2 | 1500.0000 | 36.45 | -3.56 | 32.89 | 54.00 | -21.11 | AVG |
| 3 | 1997.5000 | 56.79 | -1.86 | 54.93 | 74.00 | -19.07 | Peak |
| 4 * | 1997.5000 | 46.86 | -1.86 | 45.00 | 54.00 | -9.00 | AVG |
| 5 | 2997.5000 | 47.89 | 1.58 | 49.47 | 74.00 | -24.53 | Peak |
| 6 | 2997.5000 | 37.16 | 1.58 | 38.74 | 54.00 | -15.26 | AVG |
| 7 | 3997.5000 | 38.94 | 4.75 | 43.69 | 74.00 | -30.31 | Peak |
| 8 | 3997.5000 | 28.96 | 4.75 | 33.71 | 54.00 | -20.29 | AVG |
| 9 | 4990.0000 | 39.13 | 7.63 | 46.76 | 74.00 | -27.24 | Peak |
| 10 | 4990.0000 | 29.46 | 7.63 | 37.09 | 54.00 | -16.91 | AVG |
| 11 | 5932.5000 | 45.14 | 8.88 | 54.02 | 74.00 | -19.98 | Peak |
| 12 | 5932.5000 | 35.19 | 8.88 | 44.07 | 54.00 | -9.93 | AVG |

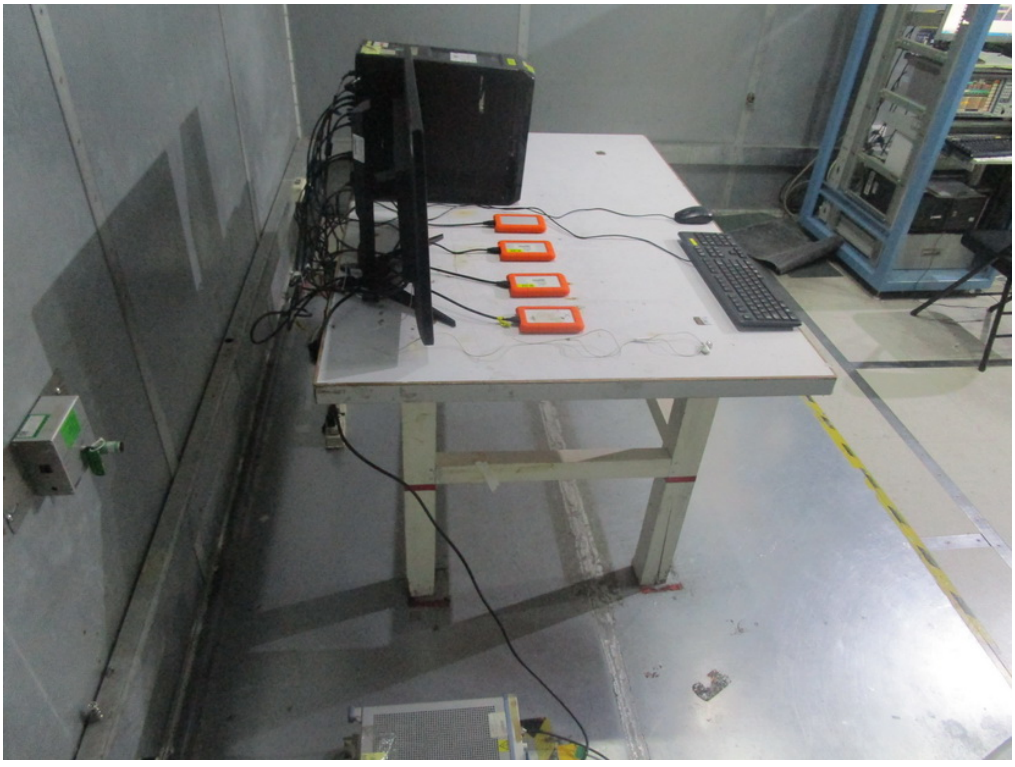
| | | | |
|---|---|---|---|
| EUT | LCD Monitor | Model Name | **G2868********(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Temperature | 22°C | Relative Humidity | 55% |
| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
| Test Mode | HDMI1 2160P | | |
| Test Engineer | Jivey Jiang | | |



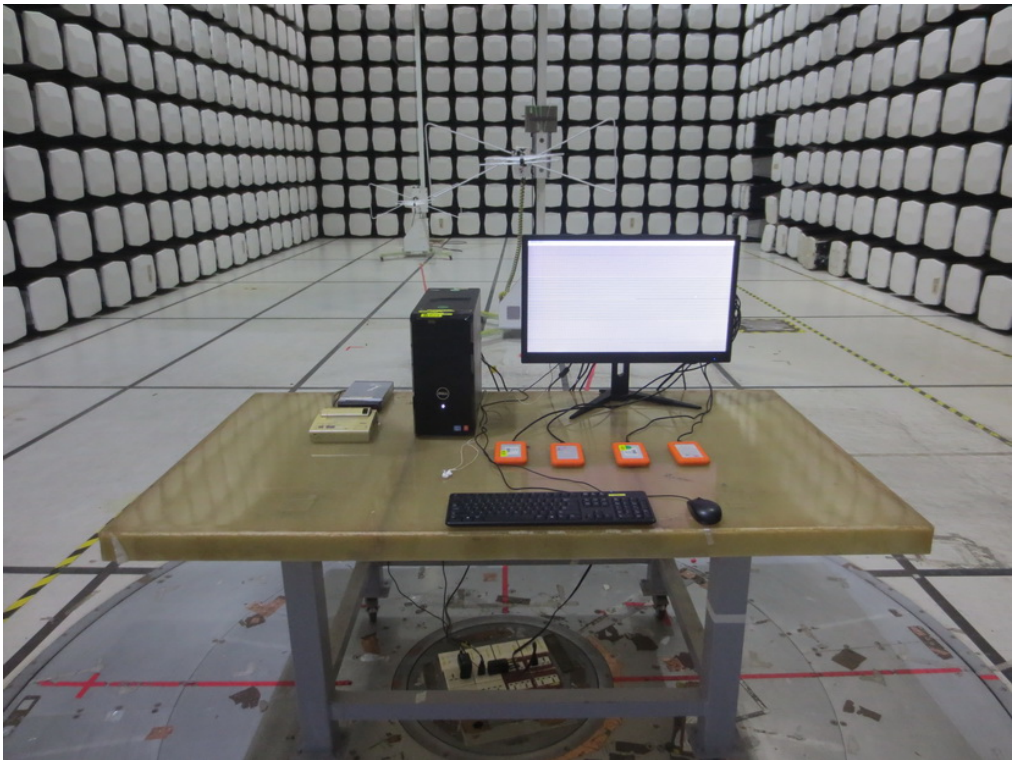

| No. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin | |
|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | 1007.5000 | 50.26 | -7.00 | 43.26 | 74.00 | -30.74 | Peak |
| 2 | 1007.5000 | 40.64 | -7.00 | 33.64 | 54.00 | -20.36 | AVG |
| 3 | 1497.5000 | 46.30 | -3.58 | 42.72 | 74.00 | -31.28 | Peak |
| 4 | 1497.5000 | 36.29 | -3.58 | 32.71 | 54.00 | -21.29 | AVG |
| 5 | 2000.0000 | 49.37 | -1.85 | 47.52 | 74.00 | -26.48 | Peak |
| 6 | 2000.0000 | 37.85 | -1.85 | 36.00 | 54.00 | -18.00 | AVG |
| 7 | 2997.5000 | 43.72 | 1.58 | 45.30 | 74.00 | -28.70 | Peak |
| 8 | 2997.5000 | 33.53 | 1.58 | 35.11 | 54.00 | -18.89 | AVG |
| 9 | 4990.0000 | 39.67 | 7.63 | 47.30 | 74.00 | -26.70 | Peak |
| 10 | 4990.0000 | 29.96 | 7.63 | 37.59 | 54.00 | -16.41 | AVG |
| 11 | 5930.0000 | 44.71 | 8.88 | 53.59 | 74.00 | -20.41 | Peak |
| 12 * | 5930.0000 | 34.19 | 8.88 | 43.07 | 54.00 | -10.93 | AVG |

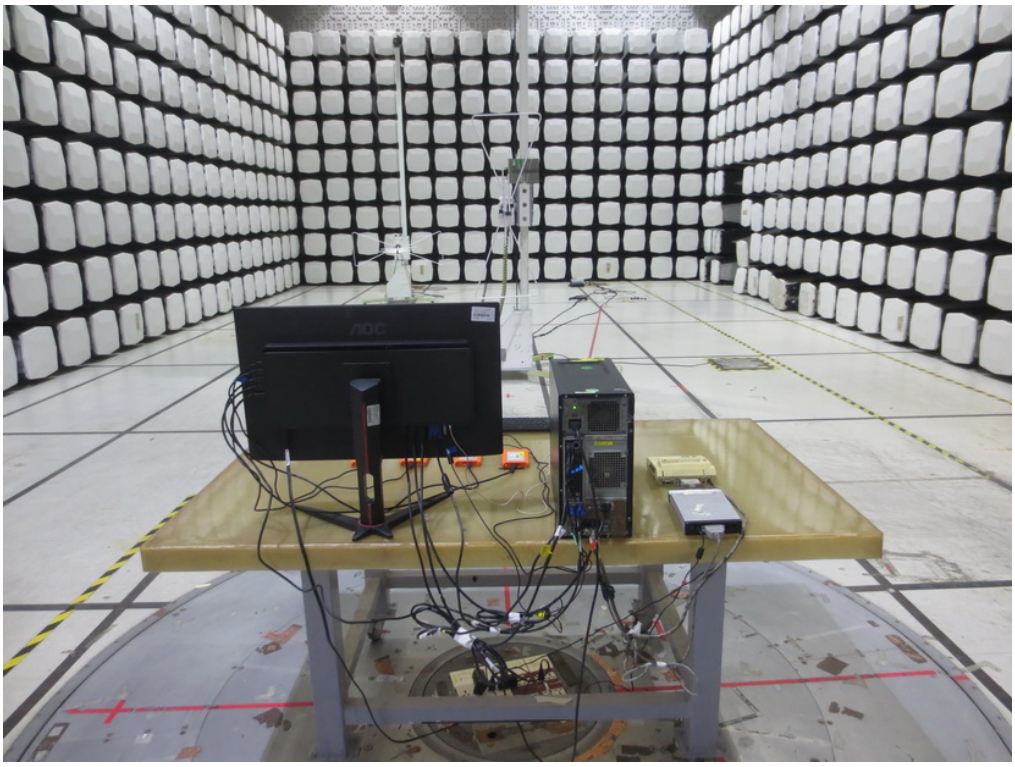
## 5. EUT TEST PHOTO

Conducted Emission

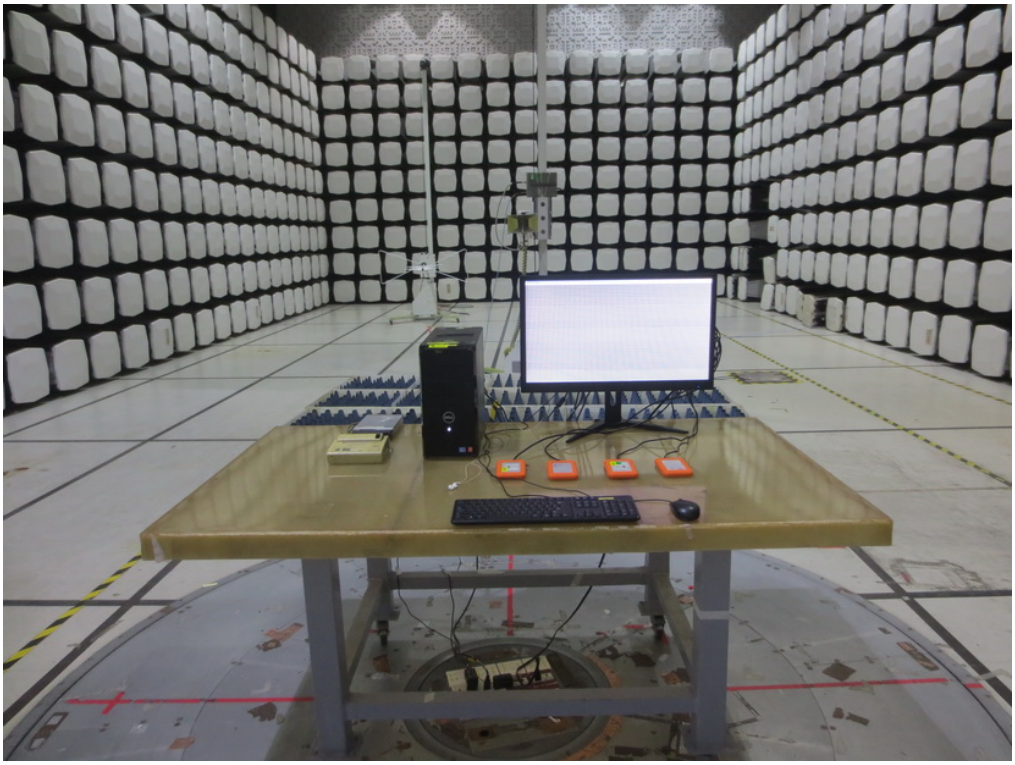


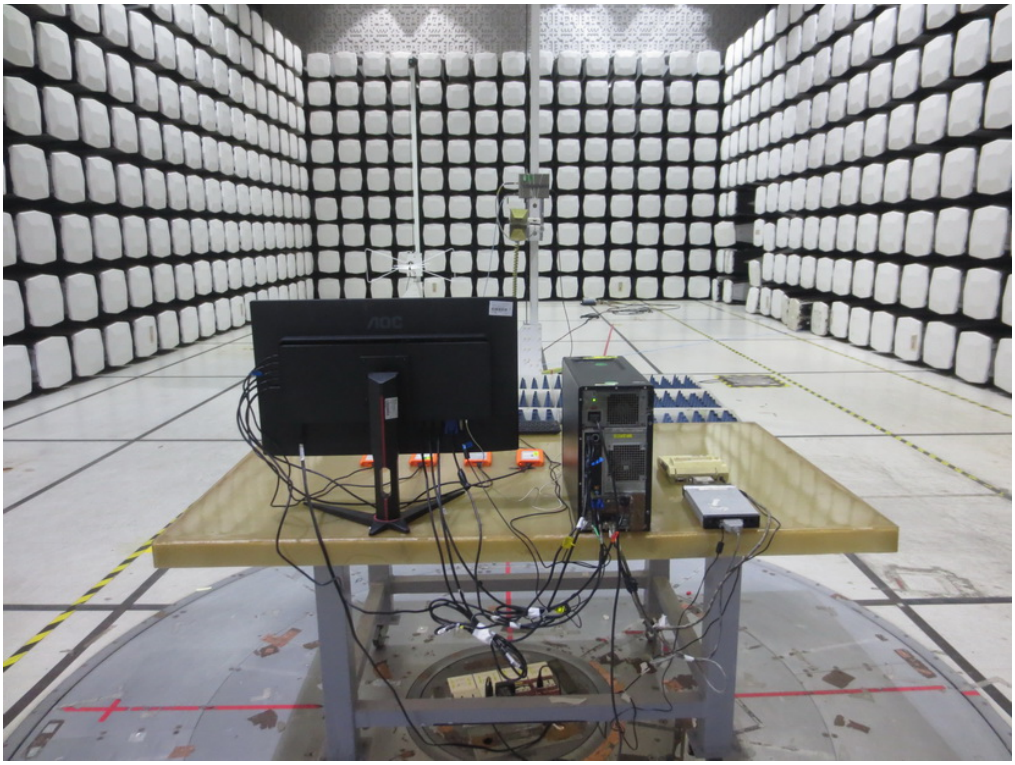
Radiated emission below 1 GHz





Radiated emission above 1 GHz





**End of Test Report**