

FCC

EMC

TEST REPORT

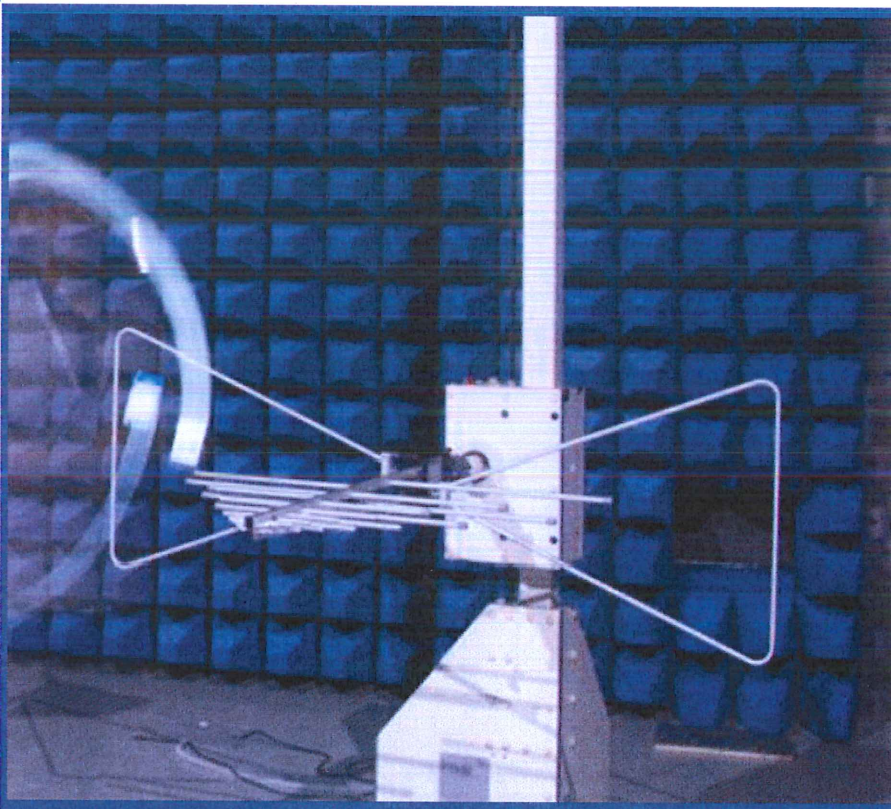
ISSUED BY  
Shenzhen BALUN Technology Co., Ltd.



FOR  
**Mobile Phone**

ISSUED TO  
vivo Mobile Communication Co., Ltd.

#283, BBK Road, Wusha, Chang'An, DongGuan City, China



Tested by: Liu Zhenxiang  
Liu Zhenxiang  
Date Jun. 03, 2020

Approved by: Liao Jianming  
Liao Jianming  
(Technical Director)  
Date Jun. 03, 2020

Report No.: BL-SZ2040775-401

EUT Name: Mobile Phone

Model Name: vivo 1935

Brand Name: vivo

Test Standard: 47 CFR Part 15 Subpart B

FCC ID: 2AUCY-V1935

Test Conclusion: Pass

Test Date: Apr. 28, 2020 ~ May 07, 2020

Date of Issue: Jun. 03, 2020

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**Revision History**

| Version        | Issue Date           | Revisions Content                     |
|----------------|----------------------|---------------------------------------|
| <u>Rev. 01</u> | <u>Jun. 01, 2020</u> | <u>Initial Issue</u>                  |
| <u>Rev. 02</u> | <u>Jun. 03, 2020</u> | <u>Update Test Mode And Test Data</u> |

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## 1 GENERAL INFORMATION

### 1.1 Identification of the Testing Laboratory

|              |                                                                                                                                 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------|
| Company Name | Shenzhen BALUN Technology Co.,Ltd.                                                                                              |
| Address      | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Phone Number | +86 755 6685 0100                                                                                                               |
| Fax Number   | +86 755 6182 4271                                                                                                               |

### 1.2 Identification of the Responsible Testing Location

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Location             | Shenzhen BALUN Technology Co.,Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Address                   | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Accreditation Certificate | <p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.</p> <p>The laboratory is a testing organization accredited by American Association for Laboratory Accreditation(A2LA) according to ISO/IEC 17025.The accreditation certificate is 4344.01.</p> <p>The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.</p> |
| Description               | All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### 1.3 Laboratory Condition

|                           |                    |
|---------------------------|--------------------|
| Ambient Temperature       | 20°C to 25°C       |
| Ambient Relative Humidity | 45% to 55%         |
| Ambient Pressure          | 100 kPa to 102 kPa |

## 1.4 Announce

- (1) The test report refer to the BALUN report mode v6.8.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

|           |                                                       |
|-----------|-------------------------------------------------------|
| Applicant | vivo Mobile Communication Co., Ltd.                   |
| Address   | #283, BBK Road, Wusha, Chang'An, DongGuan City, China |

### 2.2 Manufacturer Information

|              |                                                       |
|--------------|-------------------------------------------------------|
| Manufacturer | vivo Mobile Communication Co., Ltd.                   |
| Address      | #283, BBK Road, Wusha, Chang'An, DongGuan City, China |

### 2.3 Factory Information

|         |                                                       |
|---------|-------------------------------------------------------|
| Factory | vivo Mobile Communication Co., Ltd.                   |
| Address | #283, BBK Road, Wusha, Chang'An, DongGuan City, China |

### 2.4 General Description for Equipment under Test (EUT)

|                                           |              |
|-------------------------------------------|--------------|
| EUT Name                                  | Mobile Phone |
| Model Name Under Test                     | vivo 1935    |
| Series Model Name                         | N/A          |
| Description of Model name differentiation | N/A          |
| Hardware Version                          | MP_0.1       |
| Software Version                          | N/A          |
| Dimensions (Approx.)                      | N/A          |
| Weight (Approx.)                          | N/A          |

## 2.5 Ancillary Equipment

|                                                                                                               |                  |                                |
|---------------------------------------------------------------------------------------------------------------|------------------|--------------------------------|
| Ancillary Equipment 1                                                                                         | Battery          |                                |
|                                                                                                               | Brand Name       | vivo                           |
|                                                                                                               | Model No.        | B-M3                           |
|                                                                                                               | Serial No.       | N/A                            |
|                                                                                                               | Capacity         | 4880 mAh                       |
|                                                                                                               | Rated Voltage    | 3.87 V                         |
|                                                                                                               | Limited Voltage  | 4.2 V                          |
| Ancillary Equipment 2                                                                                         | Adapter 1        |                                |
|                                                                                                               | Brand Name       | vivo                           |
|                                                                                                               | Model No.        | V1020D-US                      |
|                                                                                                               | Serial No.       | N/A                            |
|                                                                                                               | Rated Input      | 100-240 V~, 50 / 60 Hz, 0.35 A |
|                                                                                                               | Rated Output     | 5 V= 2 A                       |
|                                                                                                               | Manufacturer     | Phitek                         |
| Ancillary Equipment 3                                                                                         | Adapter 2        |                                |
|                                                                                                               | Brand Name       | vivo                           |
|                                                                                                               | Model No.        | V1020D-US                      |
|                                                                                                               | Serial No.       | N/A                            |
|                                                                                                               | Rated Input      | 100-240 V~, 50 / 60 Hz, 0.35 A |
|                                                                                                               | Rated Output     | 5 V= 2 A                       |
|                                                                                                               | Manufacturer     | Salcomp                        |
| Ancillary Equipment 4                                                                                         | Adapter 3        |                                |
|                                                                                                               | Brand Name       | vivo                           |
|                                                                                                               | Model No.        | V1020D-EU                      |
|                                                                                                               | Serial No.       | N/A                            |
|                                                                                                               | Rated Input      | 100-240 V~, 50 / 60 Hz, 0.35 A |
|                                                                                                               | Rated Output     | 5 V= 2 A                       |
|                                                                                                               | Manufacturer     | Aohai                          |
| Ancillary Equipment 5                                                                                         | USB Cable        |                                |
|                                                                                                               | Model No.        | N/A                            |
|                                                                                                               | Length (Approx.) | 1.0 m                          |
| Ancillary Equipment 6                                                                                         | Earphone         |                                |
|                                                                                                               | Model No.        | N/A                            |
|                                                                                                               | Length (Approx.) | 1.2 m                          |
| Note 1: Letter in ( ) means plug type.                                                                        |                  |                                |
| Note 2: All adapters are tested, only the worst data of V1020D-US(Manufacturer: Phitek) shown in this report. |                  |                                |

## 2.6 Technical Information

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network and Wireless connectivity | 2G Network GSM/GPRS/EDGE 850/1900 MHz<br>3G Network CDMA 1x Band Class 0<br>EVDO Rel. 0/Rev. A Band Class 0<br>WCDMA/HSDPA/HSUPA Band 2/4/5<br>4G Network FDD LTE Band 2/4/5/7/26<br>TDD LTE Band 38/41<br>LTE CA Uplink (UL): 41C<br>Bluetooth 5.0 (BR+EDR+BLE)<br>2.4G WIFI 802.11b, 802.11g, 802.11n(HT20)<br>5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80)<br>Band 1/2/3/4 SRD, GPS, GLONASS, Galileo, BDS, FM receiver |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

The requirement for the following technical information of the EUT was tested in this report:

|                                |                                                                                         |
|--------------------------------|-----------------------------------------------------------------------------------------|
| The Highest Speed of Processor | 2 GHz                                                                                   |
| About the Product              | The equipment is Mobile Phone, intended for used with information technology equipment. |

### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

| No. | Identity                                          | Document Title                                                                                                                                                               |
|-----|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | FCC 47 CFR Part 15<br>Subpart B (10-1-18 Edition) | Unintentional Radiators                                                                                                                                                      |
| 2   | ANSI C63.4-2014                                   | American National Standard for Methods of<br>Measurement of Radio-Noise Emissions from<br>Low-Voltage Electrical and Electronic Equipment in the<br>Range of 9 kHz to 40 GHz |

#### 3.2 Verdict

| No. | Description                  | FCC Rule | Test Verdict | Result     |
|-----|------------------------------|----------|--------------|------------|
| 1   | Radiated Emission            | 15.109   | Pass         | Annex A .1 |
| 2   | Conducted Emission, AC Ports | 15.107   | Pass         | Annex A .2 |

#### 3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| Measurement                        | Value   |
|------------------------------------|---------|
| Conducted emissions (9 kHz-30 MHz) | 2.96 dB |
| Radiated emissions (30 MHz-1 GHz)  | 3.66 dB |
| Radiated emissions (1 GHz-18 GHz)  | 5.57 dB |
| Radiated emissions (18 GHz-40 GHz) | 6.12 dB |

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

| Environment Parameter                     | Selected Values During Tests |                                          |                   |                    |
|-------------------------------------------|------------------------------|------------------------------------------|-------------------|--------------------|
|                                           | Temperature                  | Voltage                                  | Relative Humidity | Ambient Pressure   |
| Normal Temperature, Normal Voltage (NTNV) | 23°C to 25°C                 | AC 120 V/60 Hz or DC 3.87 V from Battery | 50% to 55%        | 100 kPa to 102 kPa |

### 4.2 Test Equipment List

| Radiated Emission Test For Frequency Below 1 GHz (10 m) |                         |                   |            |            |            |                          |
|---------------------------------------------------------|-------------------------|-------------------|------------|------------|------------|--------------------------|
| Description                                             | Manufacturer            | Model             | Serial No. | Cal. Date  | Cal. Due   | Use                      |
| EMI Receiver                                            | ROHDE&SCHWARZ           | ESRP              | 101036     | 2019.07.04 | 2020.07.03 | <input type="checkbox"/> |
| Test Antenna-Bi-Log                                     | SCHWARZBECK             | VULB 9168         | 9168-0883  | 2019.05.11 | 2021.05.10 | <input type="checkbox"/> |
| Anechoic Chamber                                        | EMC Electronic Co., Ltd | 20.10*11.60*7.35m | N/A        | 2018.08.08 | 2021.08.07 | <input type="checkbox"/> |
| Test Software                                           | BALUN                   | BL410_E           | V19.918    | --         | --         | <input type="checkbox"/> |

| Radiated Emission Test For Frequency Below 1 GHz (3 m) |              |            |            |            |            |                                     |
|--------------------------------------------------------|--------------|------------|------------|------------|------------|-------------------------------------|
| Description                                            | Manufacturer | Model      | Serial No. | Cal. Date  | Cal. Due   | Use                                 |
| EMI Receiver                                           | KEYSIGHT     | N9038A     | MY53220118 | 2019.10.29 | 2020.10.28 | <input checked="" type="checkbox"/> |
| Test Antenna-Bi-Log                                    | SCHWARZBECK  | VULB 9163  | 9163-624   | 2018.08.22 | 2020.08.21 | <input checked="" type="checkbox"/> |
| Test Antenna-Horn                                      | SCHWARZBECK  | BBHA 9120D | 9120D-1600 | 2018.07.12 | 2020.07.11 | <input type="checkbox"/>            |
| Anechoic Chamber                                       | YIHENG       | 9m*6m*6m   | N/A        | 2018.07.18 | 2021.07.17 | <input checked="" type="checkbox"/> |
| Test Software                                          | BALUN        | BL410_E    | V19.918    | --         | --         | <input checked="" type="checkbox"/> |

| Radiated Emission Test For Frequency 1 GHz-18 GHz |              |            |            |            |            |                                     |
|---------------------------------------------------|--------------|------------|------------|------------|------------|-------------------------------------|
| Description                                       | Manufacturer | Model      | Serial No. | Cal. Date  | Cal. Due   | Use                                 |
| EMI Receiver                                      | KEYSIGHT     | N9038A     | MY53220118 | 2019.10.29 | 2020.10.28 | <input checked="" type="checkbox"/> |
| Test Antenna-Horn                                 | SCHWARZBECK  | BBHA 9120D | 9120D-1148 | 2018.07.12 | 2020.07.11 | <input checked="" type="checkbox"/> |
| Anechoic Chamber                                  | YIHENG       | 9m*6m*6m   | N/A        | 2018.07.18 | 2021.07.17 | <input checked="" type="checkbox"/> |
| Test Software                                     | BALUN        | BL410_E    | V19.918    | --         | --         | <input checked="" type="checkbox"/> |

| Radiated Emission Test For Frequency Above 18 GHz |                 |              |            |            |            |                                     |
|---------------------------------------------------|-----------------|--------------|------------|------------|------------|-------------------------------------|
| Description                                       | Manufacturer    | Model        | Serial No. | Cal. Date  | Cal. Due   | Use                                 |
| EMI Receiver                                      | ROHDE & SCHWARZ | FSV40        | 101544     | 2020.02.19 | 2021.02.18 | <input checked="" type="checkbox"/> |
| Test Antenna-Horn                                 | A-INFOMW        | LB-180400K F | J211060273 | 2019.01.05 | 2021.01.04 | <input checked="" type="checkbox"/> |
| Anechoic Chamber                                  | YIHENG          | 9m*6m*6m     | N/A        | 2018.07.18 | 2021.07.17 | <input checked="" type="checkbox"/> |
| Test Software                                     | BALUN           | BL410_E      | V19.918    | --         | --         | <input checked="" type="checkbox"/> |

| Conducted disturbance Test |                            |                |            |            |            |                                     |
|----------------------------|----------------------------|----------------|------------|------------|------------|-------------------------------------|
| Description                | Manufacturer               | Model          | Serial No. | Cal. Date  | Cal. Due   | Use                                 |
| EMI Receiver               | KEYSIGHT                   | N9010B         | MY57110309 | 2019.06.13 | 2020.06.12 | <input checked="" type="checkbox"/> |
| LISN                       | SCHWARZBECK                | NSLK 8127      | 8127-687   | 2019.07.04 | 2020.07.03 | <input checked="" type="checkbox"/> |
| Shielded Enclosure         | YiHeng Electronic Co., Ltd | 3.4m*3.1m*2.8m | N/A        | 2018.08.16 | 2021.08.15 | <input checked="" type="checkbox"/> |
| Test Software              | BALUN                      | BL410_E        | V19.918    | --         | --         | <input checked="" type="checkbox"/> |

### 4.3 Test Enclosure list

| Description                       | Manufacturer | Model        | Serial No.             | Length | Description         | Use                                 |
|-----------------------------------|--------------|--------------|------------------------|--------|---------------------|-------------------------------------|
| PC                                | Dell         | 015K3N       | N/A                    | N/A    | Special Handled     | <input type="checkbox"/>            |
| Laptop                            | Apple        | A1465        | N/A                    | N/A    | N/A                 | <input checked="" type="checkbox"/> |
| Printer                           | HP           | DESKJET 1000 | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| Keyboard                          | Logitech     | Y-BP62a      | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| Mouse                             | Logitech     | M100         | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| USB disk                          | Kingston     | N/A          | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| TF Card                           | Kingston     | N/A          | N/A                    | N/A    | N/A                 | <input checked="" type="checkbox"/> |
| VGA Cable                         | N/A          | N/A          | N/A                    | 1.5 m  | Shielded with core  | <input type="checkbox"/>            |
| HDMI Cable                        | N/A          | N/A          | N/A                    | 1.5 m  | Shielded with core  | <input type="checkbox"/>            |
| DVI Cable                         | N/A          | N/A          | N/A                    | 1.5 m  | Shielded with core  | <input type="checkbox"/>            |
| Coaxial video cable               | N/A          | N/A          | N/A                    | 2.0 m  | Shielded with core  | <input type="checkbox"/>            |
| iPhone                            | Apple        | A1586        | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| Phone                             | MI           | M4           | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| Bluetooth Earphone                | SAMSUNG      | Gear Circle  | N/A                    | N/A    | N/A                 | <input checked="" type="checkbox"/> |
| Wireless Communication s Test Set | R&S          | CMW500       | 142028                 | N/A    | Cal. Due 2020.06.13 | <input checked="" type="checkbox"/> |
| WIFI Router                       | TP-LINK      | TL-WDR7500   | N/A                    | N/A    | N/A                 | <input checked="" type="checkbox"/> |
| Earphone                          | N/A          | OPPO         | N/A                    | 1.1 m  | N/A                 | <input type="checkbox"/>            |
| Car Battery                       | Camel        | 55530        | N/A                    | N/A    | 12 V/55 Ah          | <input type="checkbox"/>            |
| Artificial load                   | N/A          | N/A          | N/A                    | N/A    | 2.5 Ω/100 W         | <input type="checkbox"/>            |
| Artificial load                   | N/A          | N/A          | N/A                    | N/A    | 5 Ω/100 W           | <input type="checkbox"/>            |
| Electronic Load                   | ITECH        | IT8511       | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| USB Cable                         | N/A          | N/A          | N/A                    | 1.5 m  | Shielded with core  | <input type="checkbox"/>            |
| DC Power Supply                   | ITECH        | IT6863A      | 60001401068<br>7210006 | N/A    | N/A                 | <input type="checkbox"/>            |
| LCD Monitor                       | SAMSUNG      | UA32C4000P   | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| LCD Monitor                       | Dell         | U241HB       | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| RJ45 Cable                        | N/A          | N/A          | N/A                    | 1.5 m  | Shielded with core  | <input type="checkbox"/>            |

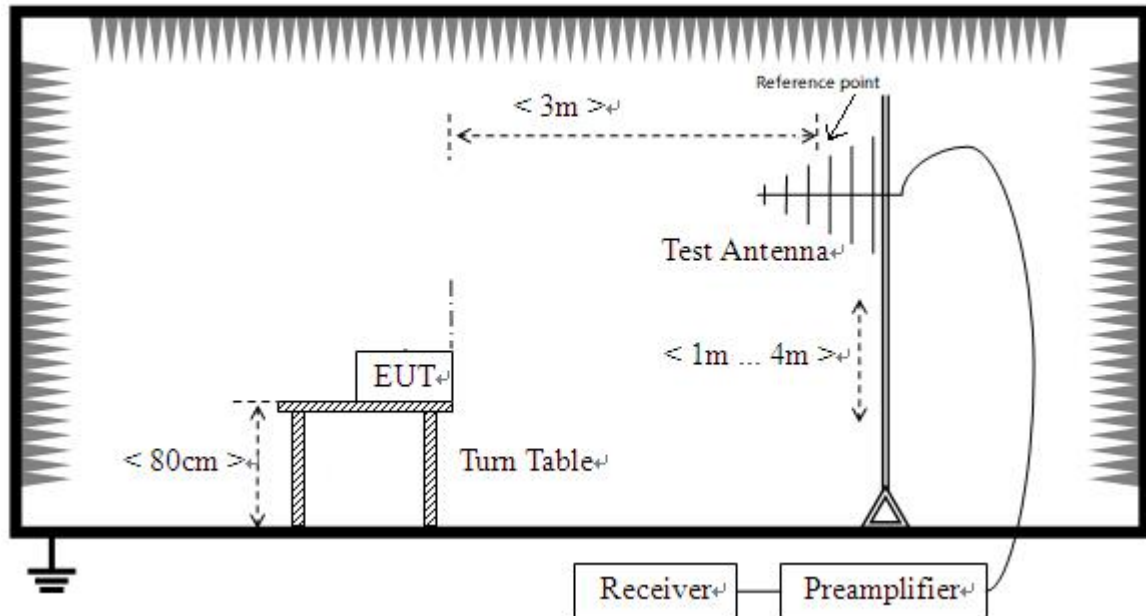
## 4.4 Test Configurations

| Test Configurations (TC) No. | Description                                                                                                                                  |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Traffic Test Mode            |                                                                                                                                              |
| TC01                         | <u>The GSM 850 MHz Test Mode</u><br>GSM 850 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI Link (2.4G) + GPS RX              |
| TC02                         | <u>The EDGE 850 MHz Test Mode</u><br>EDGE 850 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI Link (5G) + GLONASS RX          |
| TC03                         | <u>The GSM 850 MHz Test Mode with internal speaker</u><br>GSM 850 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + BDS RX |
| TC04                         | <u>The GSM 1900 Test Mode</u><br>GSM 1900 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + Galileo RX                     |
| TC05                         | <u>The EDGE 1900 MHz Test Mode</u><br>EDGE 1900 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + GPS RX                   |
| TC06                         | <u>The CDMA BC0 Test Mode</u><br>CDMA BC0 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + GLONASS RX                     |
| TC07                         | <u>The EVDO BC0 Test Mode</u><br>EVDO BC0 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + BDS RX                         |
| TC08                         | <u>The WCDMA Band 2 Test Mode</u><br>WCDMA Band 2 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + Galileo RX             |
| TC09                         | <u>The WCDMA Band 4 Test Mode</u><br>WCDMA Band 4 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + GPS RX                 |
| TC10                         | <u>The WCDMA Band 5 Test Mode</u><br>WCDMA Band 5 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + GLONASS RX             |
| TC11                         | <u>The CDMA BC0 Test Mode</u><br>CDMA BC0 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + BDS RX                         |
| TC12                         | <u>The FDD LTE Band 2 Test Mode</u><br>LTE Band 2 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + Galileo RX             |
| TC13                         | <u>The FDD LTE Band 4 Test Mode</u><br>LTE Band 4 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + GPS RX                 |
| TC14                         | <u>The FDD LTE Band 5 Test Mode</u>                                                                                                          |

|                     |                                                                                                                                    |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------|
|                     | LTE Band 5 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + GLONASS RX                                          |
| TC15                | <u>The FDD LTE Band 7 Test Mode</u><br>LTE Band 7 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + BDS RX       |
| TC16                | <u>The FDD LTE Band 26 Test Mode</u><br>LTE Band 26 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + Galileo RX |
| TC17                | <u>The TDD LTE Band 38 Test Mode</u><br>LTE Band 38 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + GPS RX     |
| TC18                | <u>The TDD LTE Band 41 Test Mode</u><br>LTE Band 41 Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + GLONASS RX |
| TC19                | <u>The LTE CA_41C Test Mode</u><br>LTE CA_41C Idle + Adapter + USB Cable + Battery + Earphone + BT RX + WIFI RX + BDS RX           |
| Amusement Test Mode |                                                                                                                                    |
| TC20                | <u>The Camera Test Mode</u><br>EUT + Adapter + USB Cable + Battery + Earphone + TF Card                                            |
| TC21                | <u>The Video Play Test Mode</u><br>EUT + Adapter + USB Cable + Battery + Earphone + TF Card                                        |
| TC22                | <u>The FM Test Mode</u><br>EUT + Adapter + USB Cable + Battery + Earphone + FM RX                                                  |
| TC23                | <u>The USB Test Mode</u><br>EUT + USB Cable + Battery + Earphone + Laptop+ TF Card                                                 |

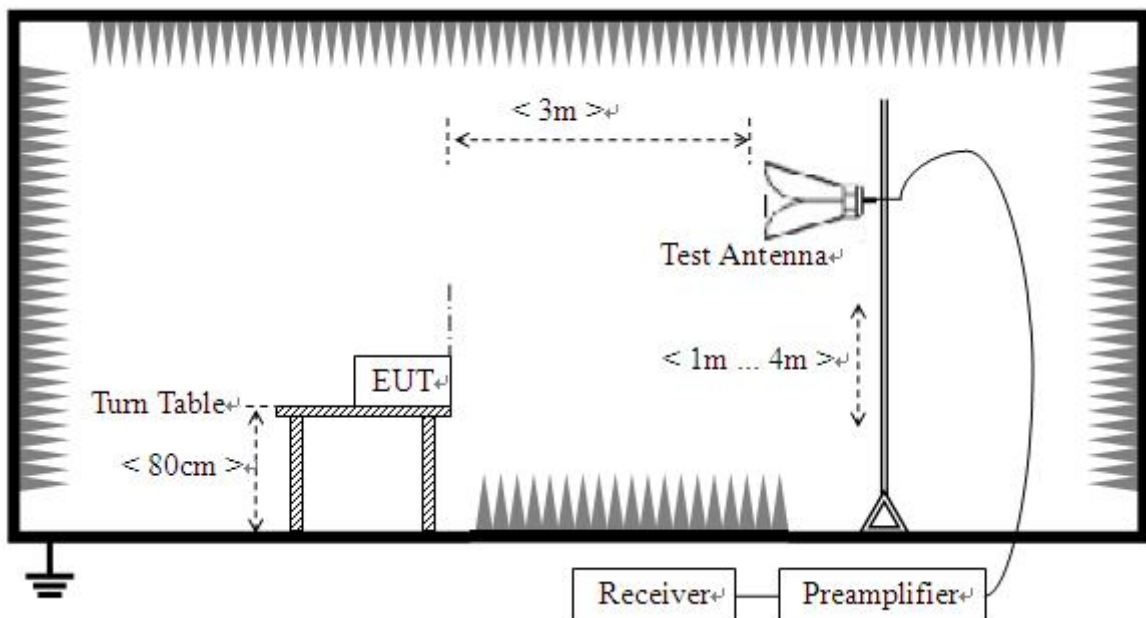
## 4.5 Test Setups

### Test Setup 1



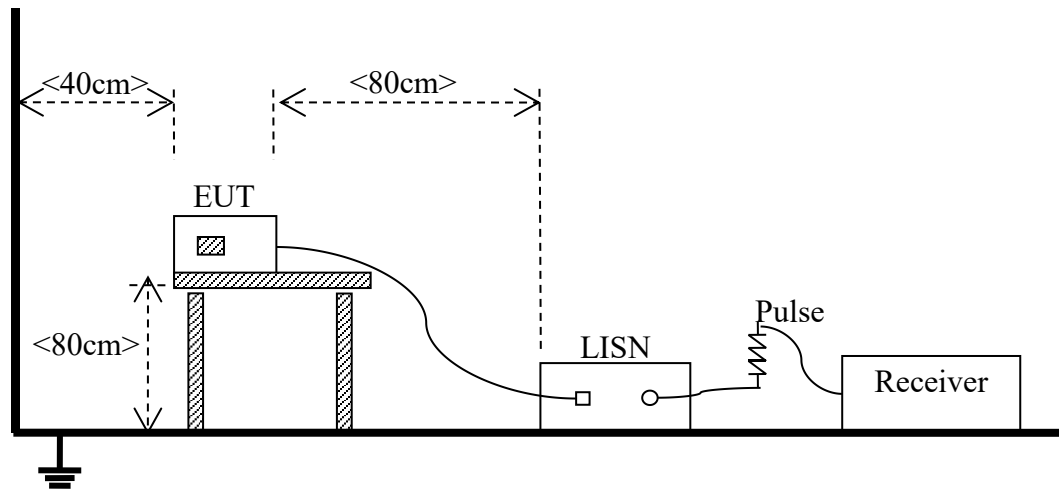
(For Radiated Emission Test (30 MHz-1 GHz))

### Test Setup 2



(For Radiated Emission Test (above 1 GHz))

### Test Setup 3



(For Conducted Emission, AC Ports Test)

## 4.6 Test Conditions

| Test Case                    | Test Conditions    |                           |
|------------------------------|--------------------|---------------------------|
| Radiated Emission            | Test Env.          | NTNV                      |
|                              | Test Setup         | Test Setup 1&2            |
|                              | Test Configuration | TC01~TC23 <sup>Note</sup> |
| Conducted Emission, AC Ports | Test Env.          | NTNV                      |
|                              | Test Setup         | Test Setup 3              |
|                              | Test Configuration | TC01~TC23 <sup>Note</sup> |

Note: Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report. The Camera Test Mode is the worst mode in this report.

## 5 TEST ITEMS

### 5.1 Emission Tests

#### 5.1.1 Radiated Emission

##### 5.1.1.1 Limit

| Frequency range<br>(MHz) | Class B (at 3 m)                      |                                         | Class B (at 10 m)                       | Class A (at 10 m)                     |                                         |
|--------------------------|---------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|
|                          | Field Strength<br>( $\mu\text{V/m}$ ) | Field Strength<br>(dB $\mu\text{V/m}$ ) | Field Strength<br>(dB $\mu\text{V/m}$ ) | Field Strength<br>( $\mu\text{V/m}$ ) | Field Strength<br>(dB $\mu\text{V/m}$ ) |
| 30 - 88                  | 100                                   | 40                                      | 30                                      | 90                                    | 39                                      |
| 88 - 216                 | 150                                   | 43.5                                    | 33.5                                    | 150                                   | 43.5                                    |
| 216 - 960                | 200                                   | 46                                      | 36                                      | 210                                   | 46.4                                    |
| Above 960                | 500                                   | 54                                      | 44                                      | 300                                   | 49.5                                    |

NOTE:

- 1) Field Strength (dB $\mu\text{V/m}$ ) =  $20 \cdot \log$  [Field Strength ( $\mu\text{V/m}$ )].
- 2) In the emission tables above, the tighter limit applies at the band edges.

##### 5.1.1.2 Test Setup

Refer to 4.5 section (test setup 1 to test setup 2) for radiated emission test, the photo of test setup please refer to ANNEX B.

##### 5.1.1.3 Test Procedure

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

##### 5.1.1.4 Test Result

Please refer to ANNEX A.1.

NOTE:

1. Results (dB $\mu\text{V/m}$ ) = Reading (dB $\mu\text{V}$ ) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)

3. Over limit = Results – Limit.

## 5.1.2 Conducted Emission

### 5.1.2.1 Test Limit

| Frequency range (MHz) | Class A           |                |
|-----------------------|-------------------|----------------|
|                       | Quasi-peak (dBμV) | Average (dBμV) |
| 0.15 - 0.50           | 79                | 66             |
| 0.50 - 30             | 73                | 60             |

| Frequency range (MHz) | Class B           |                |
|-----------------------|-------------------|----------------|
|                       | Quasi-peak (dBμV) | Average (dBμV) |
| 0.15 - 0.50           | 66 to 56          | 56 to 46       |
| 0.50 - 5              | 56                | 46             |
| 5 - 30                | 60                | 50             |

#### NOTE:

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.

### 5.1.2.2 Test Setup

Refer to 4.5 section test (test setup 3) for conducted emission, the photo of test setup please refer to ANNEX B.

### 5.1.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides 50 Ω/50 μH of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

### 5.1.2.4 Test Result

Please refer to ANNEX A.2.

#### NOTE:

1. Results (dBuV/m) = Reading (dBuV) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss

3. Over limit = Results – Limit.

## ANNEX A TEST RESULTS

### A.1 Radiated Emission

Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

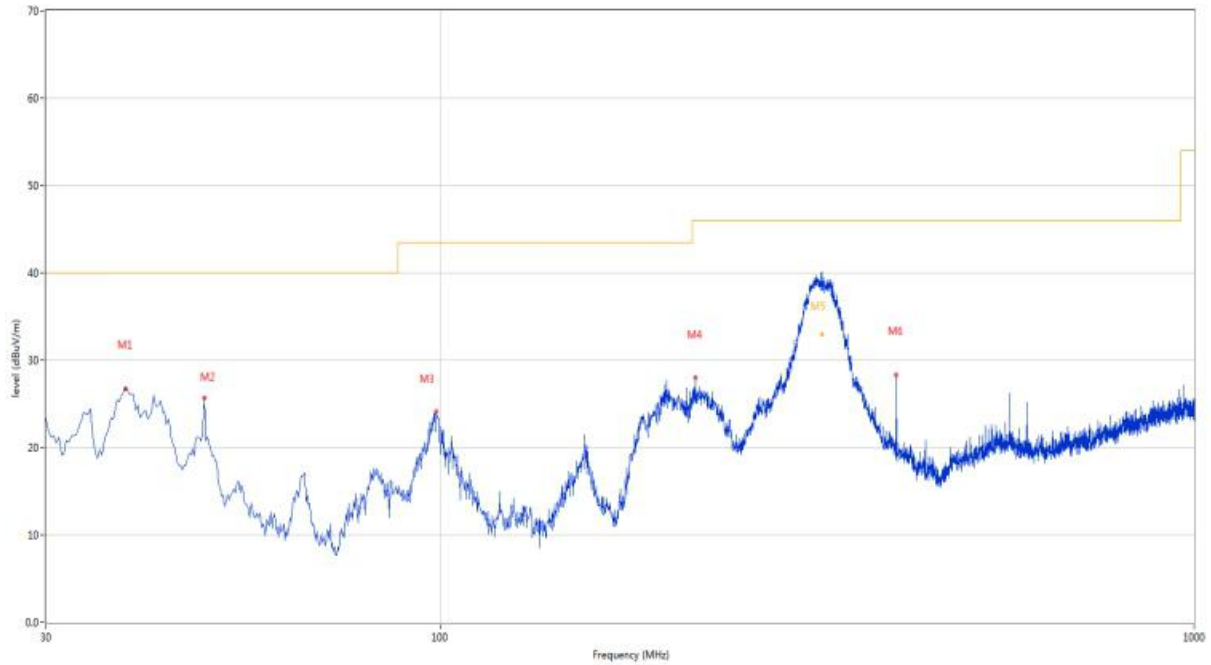
Note 3: The Radiated Emission from 18G-40G is noise only, do not show on the report.

Note 4: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz ) shown here.

## Test Data and Plots

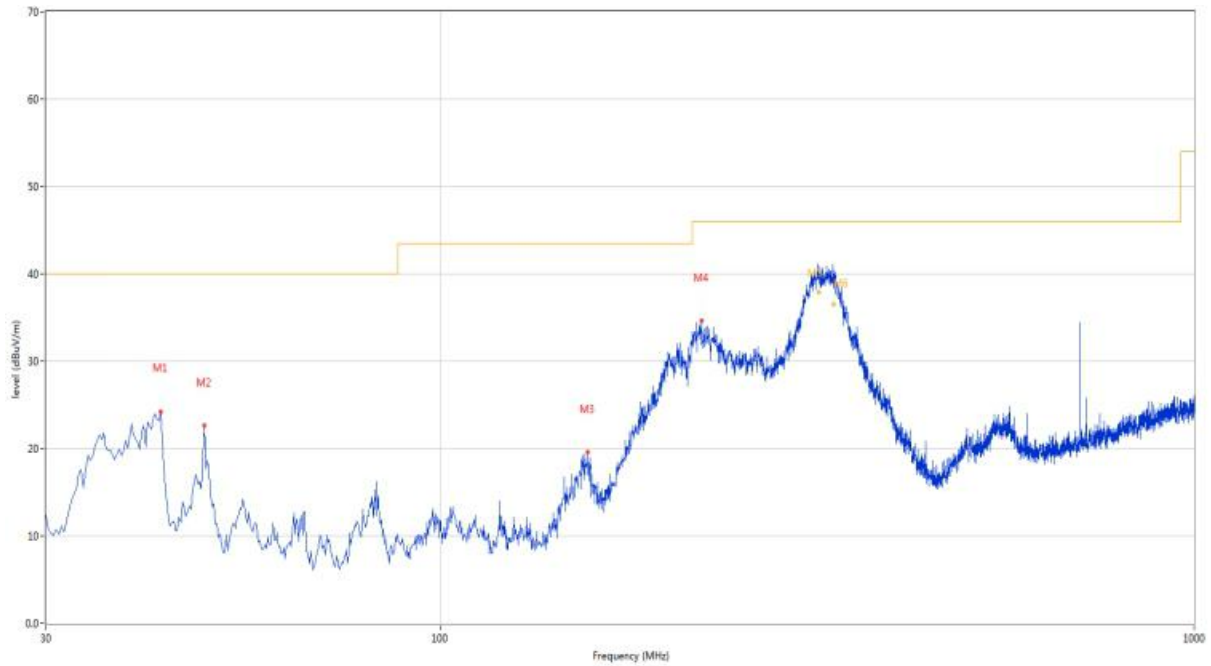
### The Camera Test Mode

#### A.1.1 Test Antenna Vertical, 30 MHz – 1 GHz



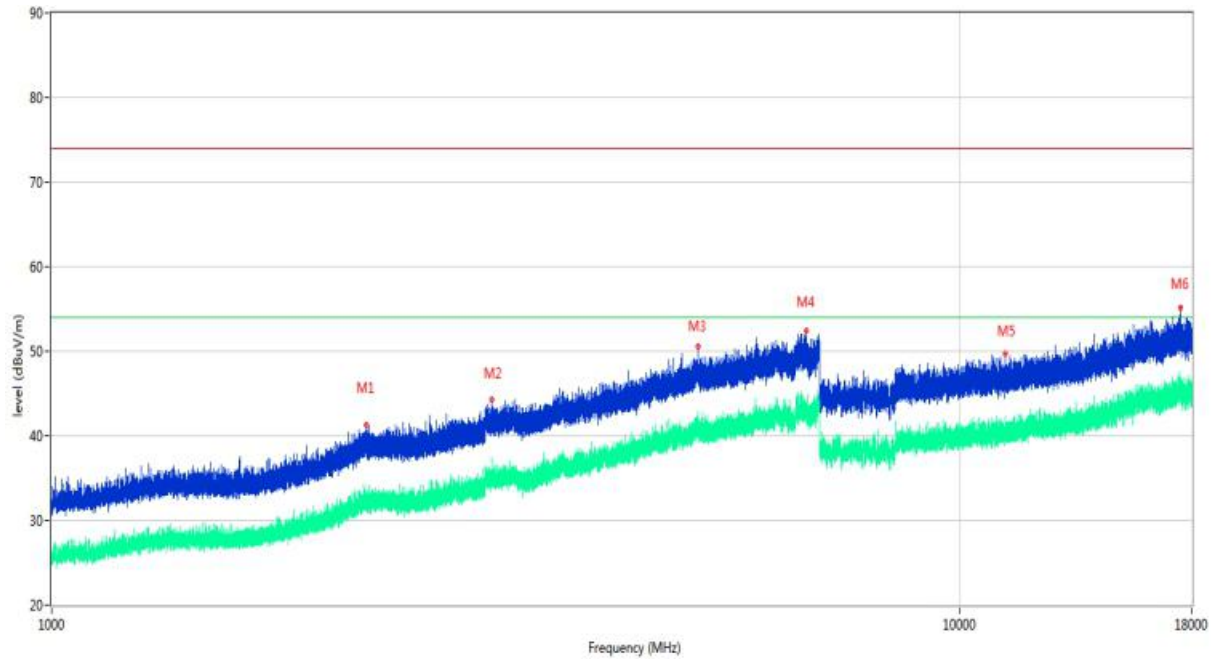
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|----------|---------|
| 1   | 38.245          | 26.79            | -24.51      | 40.0           | -13.21          | Peak     | 0.00           | 200         | Vertical | Pass    |
| 2   | 48.672          | 25.65            | -22.50      | 40.0           | -14.35          | Peak     | 333.00         | 100         | Vertical | Pass    |
| 3   | 98.870          | 24.08            | -24.86      | 43.5           | -19.42          | Peak     | 71.90          | 100         | Vertical | Pass    |
| 4   | 217.938         | 27.97            | -24.12      | 46.0           | -18.03          | Peak     | 353.10         | 100         | Vertical | Pass    |
| 5   | 320.725         | 37.62            | -21.15      | 46.0           | -8.38           | Peak     | 0.00           | 184         | Vertical | N/A     |
| 5*  | 320.725         | 32.97            | -21.15      | 46.0           | -13.03          | QP       | 0.00           | 184         | Vertical | Pass    |
| 6   | 402.722         | 28.27            | -19.11      | 46.0           | -17.73          | Peak     | 275.60         | 100         | Vertical | Pass    |

## A.1.2 Test Antenna Horizontal, 30 MHz – 1 GHz



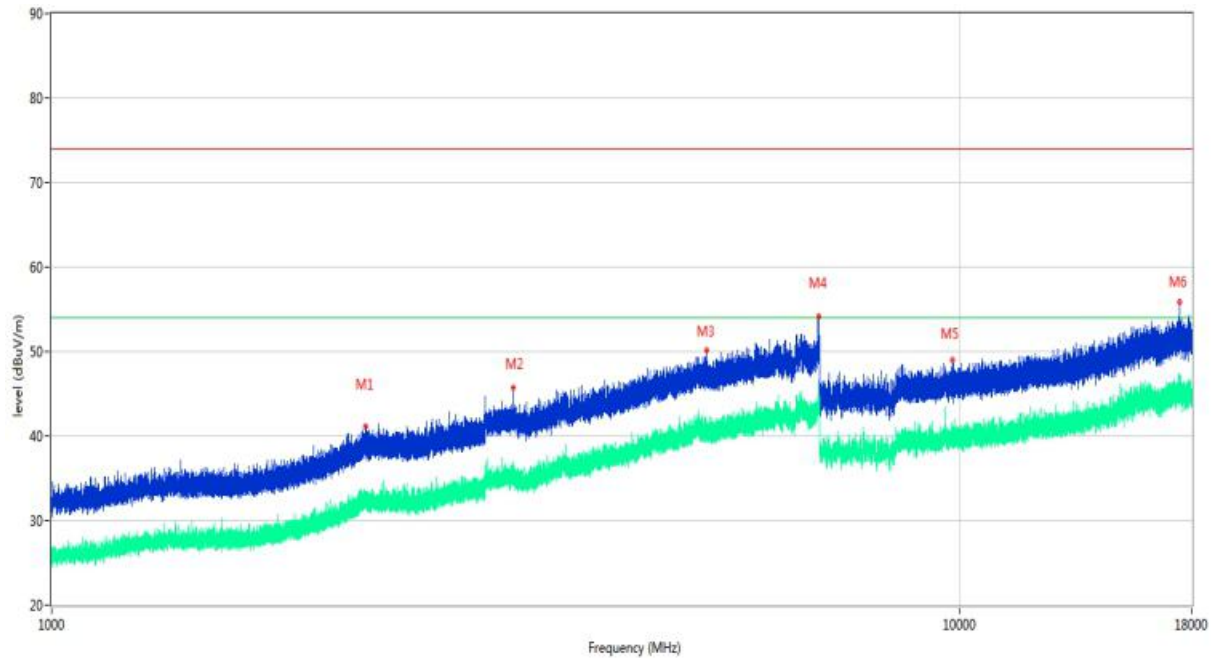
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|------------|---------|
| 1   | 42.610          | 24.25            | -23.41      | 40.0           | -15.75          | Peak     | 0.00           | 200         | Horizontal | Pass    |
| 2   | 48.672          | 22.63            | -22.50      | 40.0           | -17.37          | Peak     | 0.00           | 200         | Horizontal | Pass    |
| 3   | 156.828         | 19.57            | -27.53      | 43.5           | -23.93          | Peak     | 282.40         | 200         | Horizontal | Pass    |
| 4   | 222.060         | 34.63            | -23.92      | 46.0           | -11.37          | Peak     | 115.00         | 100         | Horizontal | Pass    |
| 5   | 317.599         | 41.98            | -20.95      | 46.0           | -4.02           | Peak     | 246.70         | 100         | Horizontal | N/A     |
| 5*  | 317.599         | 37.90            | -20.95      | 46.0           | -8.10           | QP       | 246.70         | 100         | Horizontal | Pass    |
| 6   | 332.262         | 40.65            | -20.68      | 46.0           | -5.35           | Peak     | 246.70         | 107         | Horizontal | N/A     |
| 6*  | 332.262         | 36.50            | -20.68      | 46.0           | -9.50           | QP       | 246.70         | 107         | Horizontal | Pass    |

### A.1.3 Test Antenna Vertical, 1 GHz – 12.75 GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|----------|---------|
| 1   | 2219.700        | 41.22            | -12.83      | 74.0           | -32.78          | Peak     | 361.00         | 150         | Vertical | Pass    |
| 1** | 2219.700        | 32.71            | -12.83      | 54.0           | -21.29          | AV       | 361.00         | 150         | Vertical | Pass    |
| 2   | 3053.600        | 44.35            | -7.80       | 74.0           | -29.65          | Peak     | 109.00         | 150         | Vertical | Pass    |
| 2** | 3053.600        | 35.30            | -7.80       | 54.0           | -18.70          | AV       | 109.00         | 150         | Vertical | Pass    |
| 3   | 5145.000        | 50.54            | -2.59       | 74.0           | -23.46          | Peak     | 249.00         | 150         | Vertical | Pass    |
| 3** | 5145.000        | 40.68            | -2.59       | 54.0           | -13.32          | AV       | 249.00         | 150         | Vertical | Pass    |
| 4   | 6777.800        | 52.48            | -0.93       | 74.0           | -21.52          | Peak     | 9.00           | 150         | Vertical | Pass    |
| 4** | 6777.800        | 42.14            | -0.93       | 54.0           | -11.86          | AV       | 9.00           | 150         | Vertical | Pass    |
| 5   | 11215.901       | 49.71            | -0.19       | 74.0           | -24.29          | Peak     | 80.00          | 150         | Vertical | Pass    |
| 5** | 11215.901       | 41.05            | -0.19       | 54.0           | -12.95          | AV       | 80.00          | 150         | Vertical | Pass    |
| 6   | 17479.463       | 55.12            | 2.76        | 74.0           | -18.88          | Peak     | 207.00         | 150         | Vertical | Pass    |
| 6** | 17479.463       | 46.03            | 2.76        | 54.0           | -7.97           | AV       | 207.00         | 150         | Vertical | Pass    |

#### A.1.4 Test Antenna Horizontal, 1 GHz – 12.75 GHz

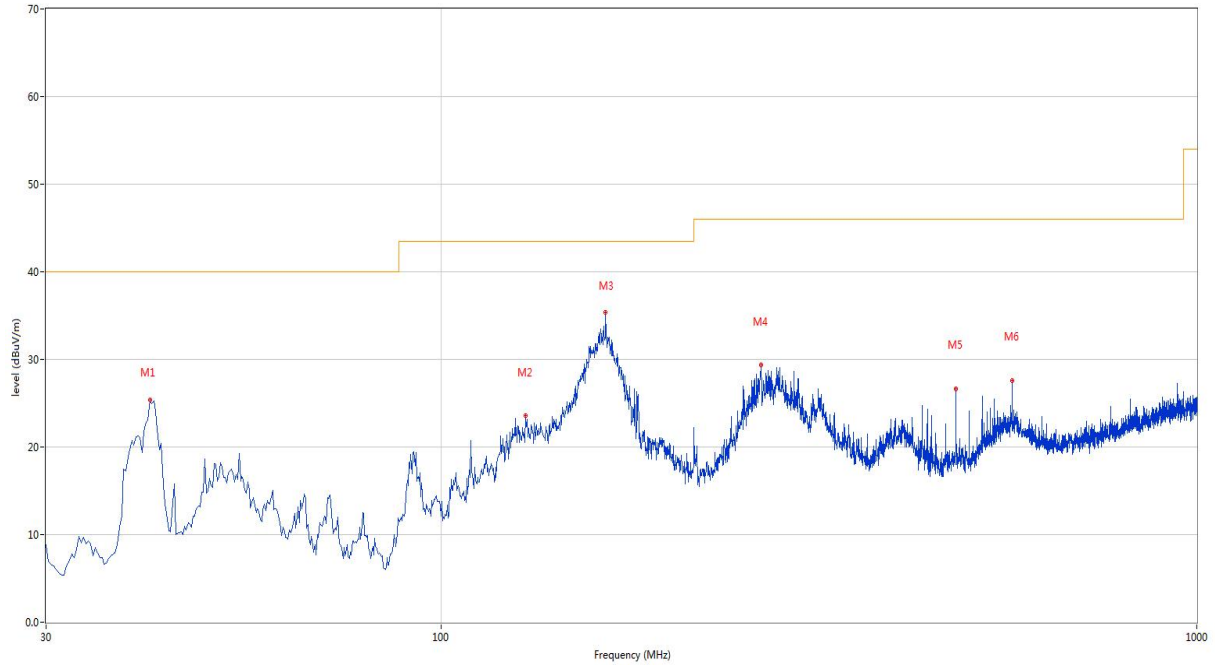


| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|------------|---------|
| 1   | 2216.900        | 41.17            | -12.75      | 74.0           | -32.83          | Peak     | 57.00          | 150         | Horizontal | Pass    |
| 1** | 2216.900        | 31.63            | -12.75      | 54.0           | -22.37          | AV       | 57.00          | 150         | Horizontal | Pass    |
| 2   | 3226.400        | 45.75            | -7.09       | 74.0           | -28.25          | Peak     | -1.00          | 150         | Horizontal | Pass    |
| 2** | 3226.400        | 34.96            | -7.09       | 54.0           | -19.04          | AV       | -1.00          | 150         | Horizontal | Pass    |
| 3   | 5265.200        | 50.10            | -3.03       | 74.0           | -23.90          | Peak     | -3.00          | 150         | Horizontal | Pass    |
| 3** | 5265.200        | 41.47            | -3.03       | 54.0           | -12.53          | AV       | -3.00          | 150         | Horizontal | Pass    |
| 4   | 6987.000        | 54.19            | 0.46        | 74.0           | -19.81          | Peak     | 228.00         | 150         | Horizontal | Pass    |
| 4** | 6987.000        | 43.18            | 0.46        | 54.0           | -10.82          | AV       | 228.00         | 150         | Horizontal | Pass    |
| 5   | 9805.712        | 48.94            | -0.09       | 74.0           | -25.06          | Peak     | 360.00         | 150         | Horizontal | Pass    |
| 5** | 9805.712        | 39.21            | -0.09       | 54.0           | -14.79          | AV       | 360.00         | 150         | Horizontal | Pass    |
| 6   | 17437.463       | 55.83            | 3.14        | 74.0           | -18.17          | Peak     | 0.00           | 150         | Horizontal | Pass    |
| 6** | 17437.463       | 45.22            | 3.14        | 54.0           | -8.78           | AV       | 0.00           | 150         | Horizontal | Pass    |

## Test Data and Plots

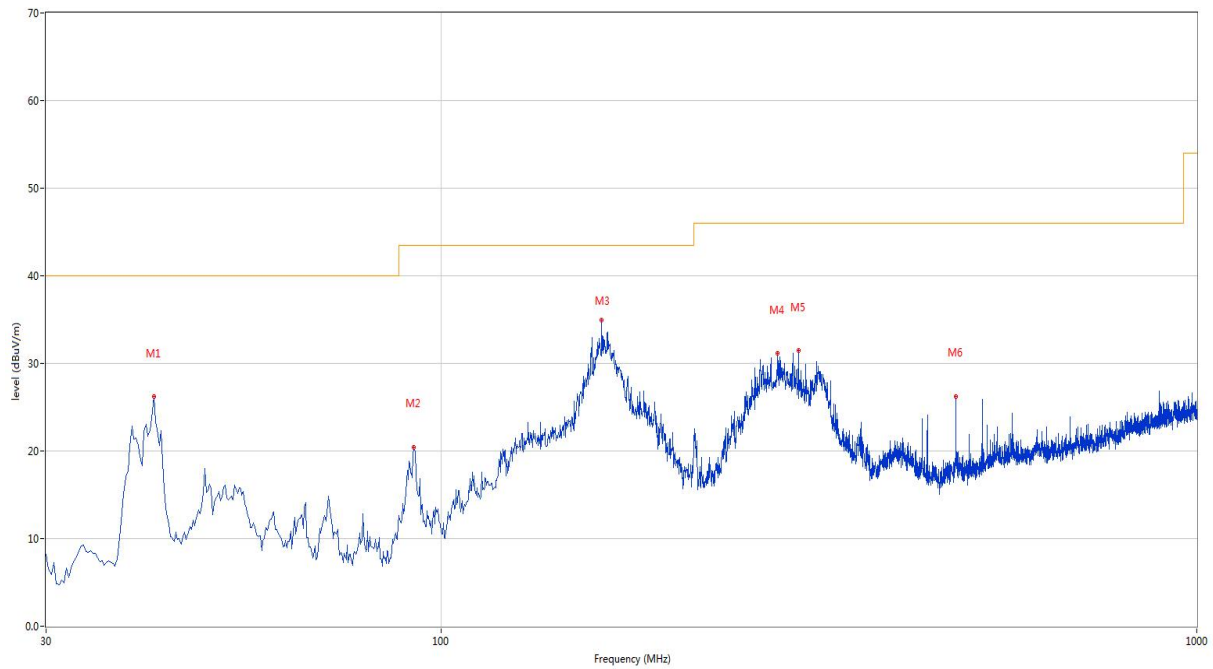
### The USB Test Mode

#### A.1.5 Test Antenna Vertical, 30 MHz – 1 GHz



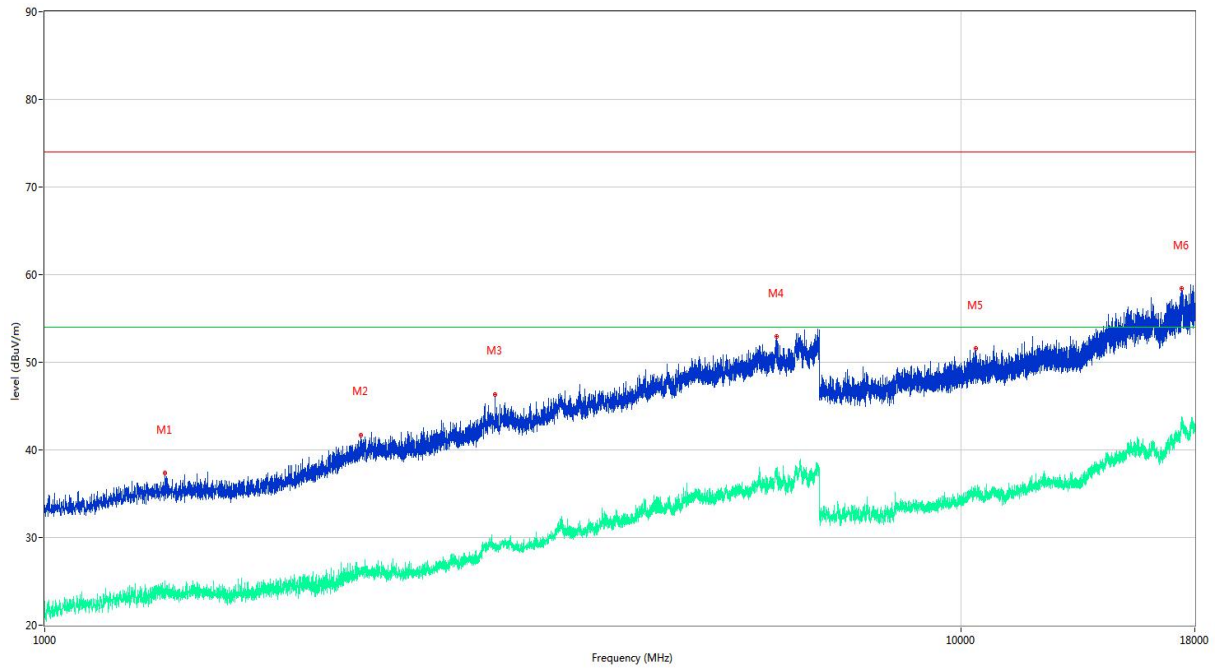
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|----------|---------|
| 1   | 41.155          | 25.38            | -23.74      | 40.0           | -14.62          | Peak     | 300.70         | 200         | Vertical | Pass    |
| 2   | 129.425         | 23.62            | -27.08      | 43.5           | -19.88          | Peak     | 43.20          | 100         | Vertical | Pass    |
| 3   | 165.072         | 35.35            | -26.77      | 43.5           | -8.15           | Peak     | 267.00         | 100         | Vertical | Pass    |
| 4   | 265.225         | 29.38            | -22.17      | 46.0           | -16.62          | Peak     | 94.90          | 200         | Vertical | Pass    |
| 5   | 480.080         | 26.59            | -17.01      | 46.0           | -19.41          | Peak     | 237.90         | 200         | Vertical | Pass    |
| 6   | 569.320         | 27.59            | -14.96      | 46.0           | -18.41          | Peak     | 53.50          | 100         | Vertical | Pass    |

# A.1.6 Test Antenna Horizontal, 30 MHz – 1 GHz



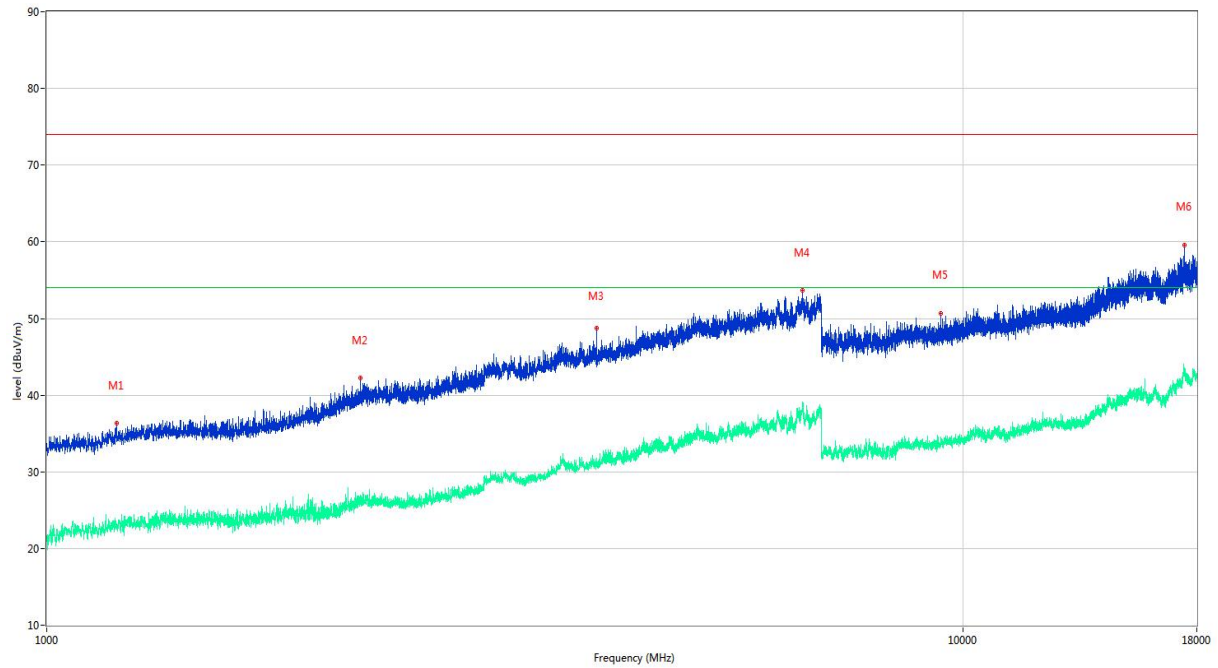
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|------------|---------|
| 1   | 41.640          | 26.20            | -23.58      | 40.0           | -13.80          | Peak     | 356.40         | 100         | Horizontal | Pass    |
| 2   | 92.080          | 20.44            | -25.62      | 43.5           | -23.06          | Peak     | 70.60          | 200         | Horizontal | Pass    |
| 3   | 163.133         | 35.00            | -26.94      | 43.5           | -8.50           | Peak     | 209.80         | 200         | Horizontal | Pass    |
| 4   | 278.805         | 31.19            | -21.87      | 46.0           | -14.81          | Peak     | 242.80         | 100         | Horizontal | Pass    |
| 5   | 296.992         | 31.47            | -21.55      | 46.0           | -14.53          | Peak     | 253.10         | 100         | Horizontal | Pass    |
| 6   | 480.080         | 26.24            | -17.01      | 46.0           | -19.76          | Peak     | 253.10         | 100         | Horizontal | Pass    |

### A.1.7 Test Antenna Vertical, 1 GHz – 12.75 GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|----------|---------|
| 1   | 1352.500        | 37.36            | -17.38      | 74.0           | -36.64          | Peak     | 187.00         | 100         | Vertical | Pass    |
| 1** | 1352.500        | 25.05            | -17.38      | 54.0           | -28.95          | AV       | 187.00         | 100         | Vertical | Pass    |
| 2   | 2214.500        | 41.69            | -12.87      | 74.0           | -32.31          | Peak     | 179.00         | 100         | Vertical | Pass    |
| 2** | 2214.500        | 25.83            | -12.87      | 54.0           | -28.17          | AV       | 179.00         | 100         | Vertical | Pass    |
| 3   | 3099.000        | 46.34            | -8.29       | 74.0           | -27.66          | Peak     | 169.00         | 100         | Vertical | Pass    |
| 3** | 3099.000        | 28.79            | -8.29       | 54.0           | -25.21          | AV       | 169.00         | 100         | Vertical | Pass    |
| 4   | 6292.000        | 52.90            | 0.05        | 74.0           | -21.10          | Peak     | 248.00         | 100         | Vertical | Pass    |
| 4** | 6292.000        | 36.75            | 0.05        | 54.0           | -17.25          | AV       | 248.00         | 100         | Vertical | Pass    |
| 5   | 10385.313       | 51.57            | 0.71        | 74.0           | -22.43          | Peak     | 51.00          | 100         | Vertical | Pass    |
| 5** | 10385.313       | 35.29            | 0.71        | 54.0           | -18.71          | AV       | 51.00          | 100         | Vertical | Pass    |
| 6   | 17414.625       | 58.41            | 4.72        | 74.0           | -15.59          | Peak     | 61.00          | 100         | Vertical | Pass    |
| 6** | 17414.625       | 43.26            | 4.72        | 54.0           | -10.74          | AV       | 61.00          | 100         | Vertical | Pass    |

### A.1.8 Test Antenna Horizontal, 1 GHz – 12.75 GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|------------|---------|
| 1   | 1191.500        | 36.29            | -17.86      | 74.0           | -37.71          | Peak     | 203.00         | 100         | Horizontal | Pass    |
| 1** | 1191.500        | 23.21            | -17.86      | 54.0           | -30.79          | AV       | 203.00         | 100         | Horizontal | Pass    |
| 2   | 2200.000        | 42.20            | -12.97      | 74.0           | -31.80          | Peak     | 216.00         | 100         | Horizontal | Pass    |
| 2** | 2200.000        | 26.90            | -12.97      | 54.0           | -27.10          | AV       | 216.00         | 100         | Horizontal | Pass    |
| 3   | 3981.000        | 48.78            | -5.74       | 74.0           | -25.22          | Peak     | 23.00          | 100         | Horizontal | Pass    |
| 3** | 3981.000        | 30.90            | -5.74       | 54.0           | -23.10          | AV       | 23.00          | 100         | Horizontal | Pass    |
| 4   | 6680.000        | 53.63            | 0.11        | 74.0           | -20.37          | Peak     | 133.00         | 100         | Horizontal | Pass    |
| 4** | 6680.000        | 38.64            | 0.11        | 54.0           | -15.36          | AV       | 133.00         | 100         | Horizontal | Pass    |
| 5   | 9458.125        | 50.67            | -0.21       | 74.0           | -23.33          | Peak     | 206.00         | 100         | Horizontal | Pass    |
| 5** | 9458.125        | 33.65            | -0.21       | 54.0           | -20.35          | AV       | 206.00         | 100         | Horizontal | Pass    |
| 6   | 17463.187       | 59.56            | 3.85        | 74.0           | -14.44          | Peak     | 116.00         | 100         | Horizontal | Pass    |
| 6** | 17463.187       | 42.89            | 3.85        | 54.0           | -11.11          | AV       | 116.00         | 100         | Horizontal | Pass    |

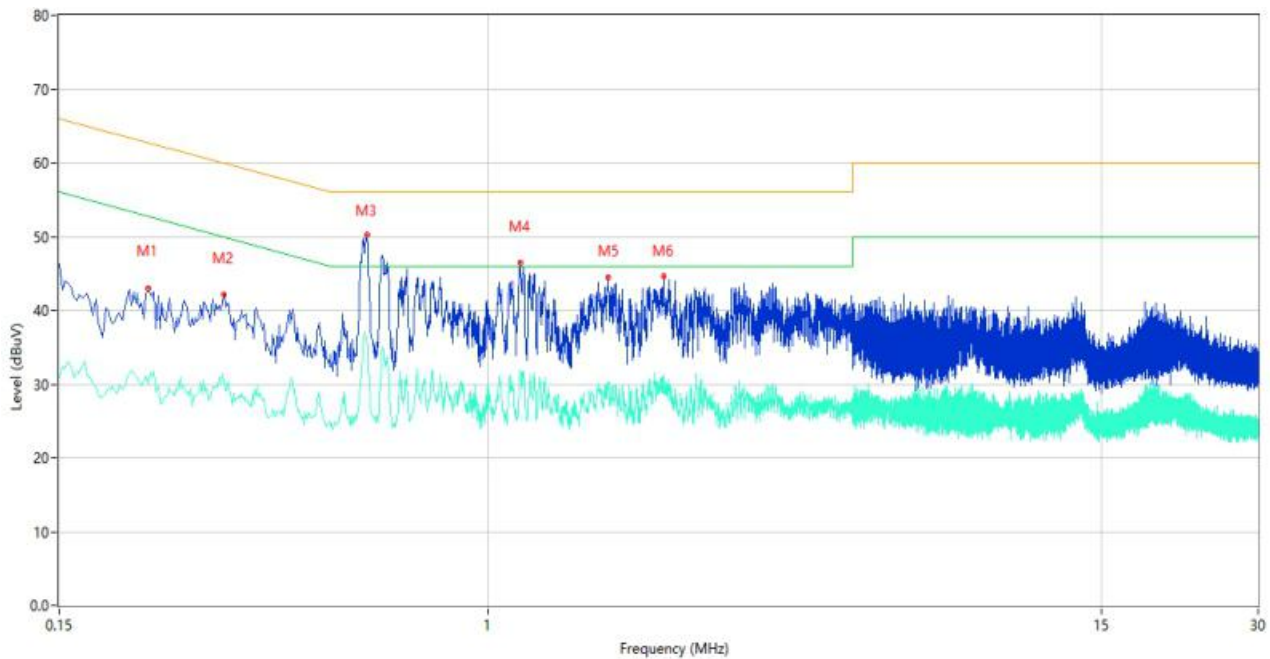
## A.2 Conducted Emission

Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz ) shown here.

### Test Data and Plots

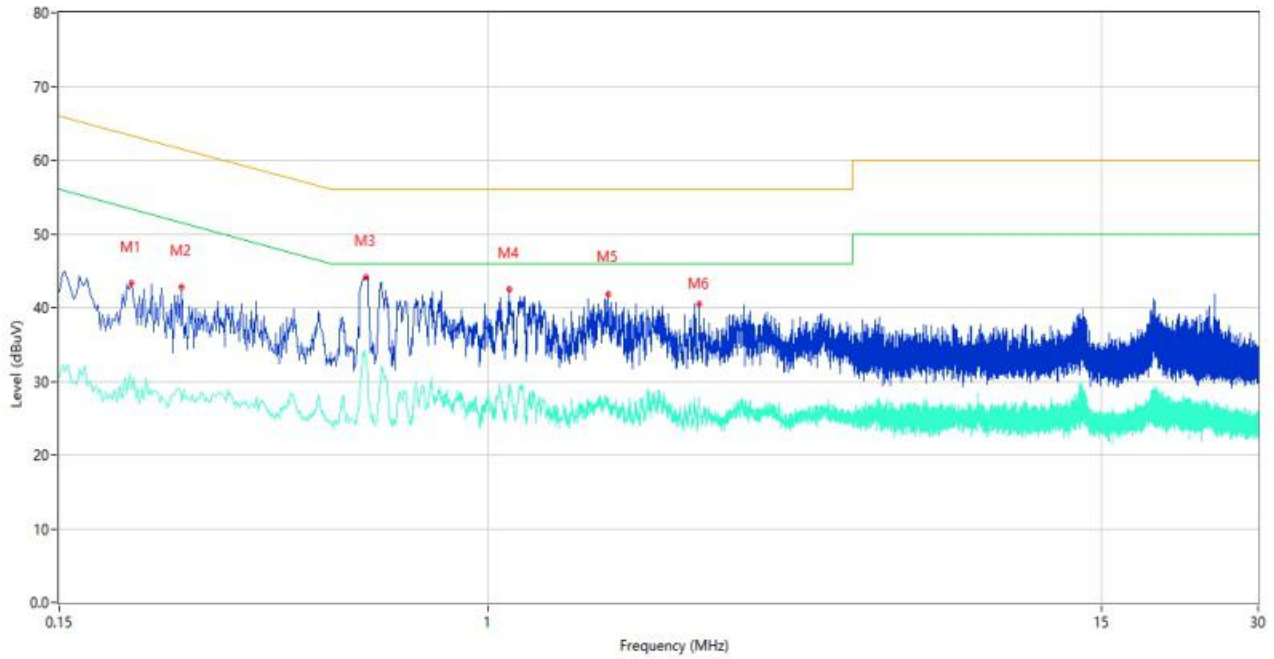
#### The Camera Test Mode

##### A.2.1 L Phase



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Over Limit (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-----------------|----------|------|---------|
| 1   | 0.222           | 43.03          | 10.37       | 62.74        | -19.71          | Peak     | L    | Pass    |
| 1** | 0.222           | 30.13          | 10.37       | 52.74        | -22.61          | AV       | L    | Pass    |
| 2   | 0.310           | 42.15          | 10.33       | 59.97        | -17.82          | Peak     | L    | Pass    |
| 2** | 0.310           | 30.19          | 10.33       | 49.97        | -19.78          | AV       | L    | Pass    |
| 3   | 0.584           | 50.77          | 10.27       | 56.00        | -5.23           | Peak     | L    | N/A     |
| 3*  | 0.584           | 48.89          | 10.27       | 56.00        | -7.11           | QP       | L    | Pass    |
| 3** | 0.584           | 36.15          | 10.27       | 46.00        | -9.85           | AV       | L    | Pass    |
| 4   | 1.150           | 46.45          | 10.24       | 56.00        | -9.55           | Peak     | L    | Pass    |
| 4** | 1.150           | 31.56          | 10.24       | 46.00        | -14.44          | AV       | L    | Pass    |
| 5   | 1.696           | 44.38          | 10.26       | 56.00        | -11.62          | Peak     | L    | Pass    |
| 5** | 1.696           | 30.00          | 10.26       | 46.00        | -16.00          | AV       | L    | Pass    |
| 6   | 2.166           | 44.68          | 10.27       | 56.00        | -11.32          | Peak     | L    | Pass    |
| 6** | 2.166           | 31.17          | 10.27       | 46.00        | -14.83          | AV       | L    | Pass    |

## A.2.2 N Phase

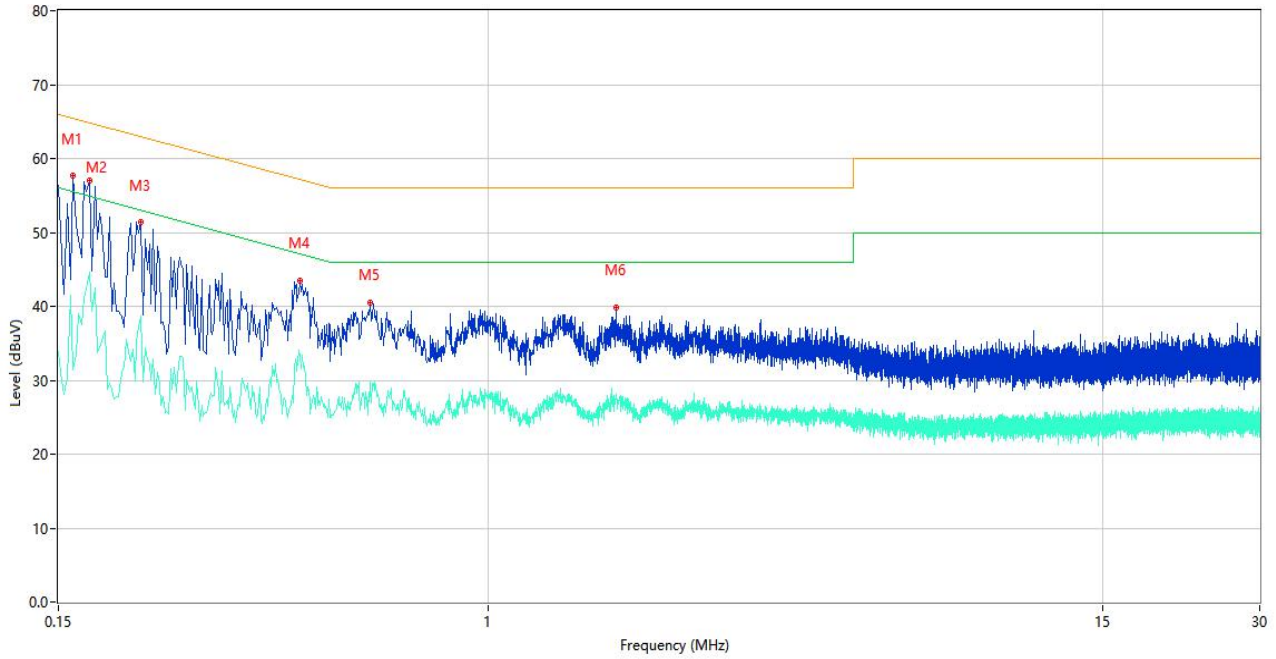


| No. | Frequency (MHz) | Results (dBUV) | Factor (dB) | Limit (dBUV) | Over Limit (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-----------------|----------|------|---------|
| 1   | 0.206           | 43.34          | 10.38       | 63.37        | -20.03          | Peak     | N    | Pass    |
| 1** | 0.206           | 28.86          | 10.38       | 53.37        | -24.51          | AV       | N    | Pass    |
| 2   | 0.258           | 42.83          | 10.34       | 61.50        | -18.67          | Peak     | N    | Pass    |
| 2** | 0.258           | 27.03          | 10.34       | 51.50        | -24.47          | AV       | N    | Pass    |
| 3   | 0.582           | 44.08          | 10.27       | 56.00        | -11.92          | Peak     | N    | Pass    |
| 3** | 0.582           | 33.42          | 10.27       | 46.00        | -12.58          | AV       | N    | Pass    |
| 4   | 1.096           | 42.46          | 10.23       | 56.00        | -13.54          | Peak     | N    | Pass    |
| 4** | 1.096           | 29.52          | 10.23       | 46.00        | -16.48          | AV       | N    | Pass    |
| 5   | 1.700           | 41.74          | 10.26       | 56.00        | -14.26          | Peak     | N    | Pass    |
| 5** | 1.700           | 27.71          | 10.26       | 46.00        | -18.29          | AV       | N    | Pass    |
| 6   | 2.540           | 40.56          | 10.28       | 56.00        | -15.44          | Peak     | N    | Pass    |
| 6** | 2.540           | 27.75          | 10.28       | 46.00        | -18.25          | AV       | N    | Pass    |

## Test Data and Plots

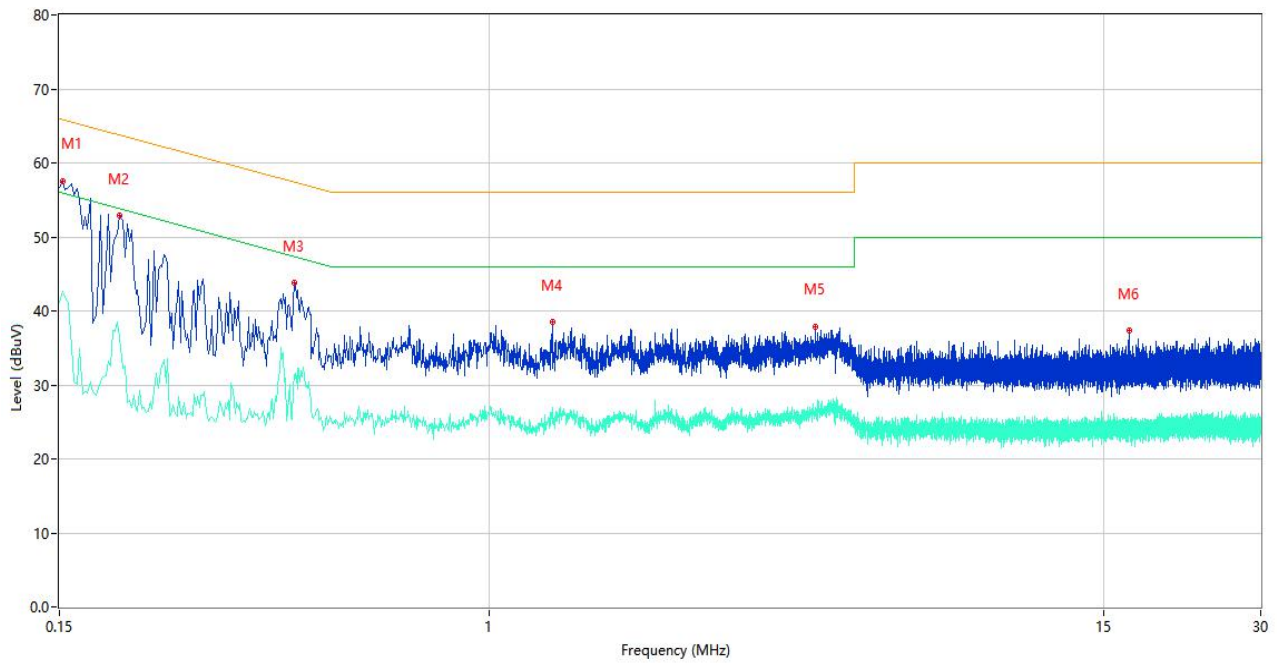
### The USB Test Mode

#### A.2.3 L Phase



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Over Limit (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-----------------|----------|------|---------|
| 1   | 0.160           | 57.71          | 10.40       | 65.46        | -7.75           | Peak     | L    | Pass    |
| 1** | 0.160           | 31.33          | 10.40       | 55.46        | -24.13          | AV       | L    | Pass    |
| 2   | 0.172           | 56.95          | 10.40       | 64.86        | -7.91           | Peak     | L    | Pass    |
| 2** | 0.172           | 44.57          | 10.40       | 54.86        | -10.29          | AV       | L    | Pass    |
| 3   | 0.216           | 51.37          | 10.37       | 62.97        | -11.60          | Peak     | L    | Pass    |
| 3** | 0.216           | 38.69          | 10.37       | 52.97        | -14.28          | AV       | L    | Pass    |
| 4   | 0.436           | 43.52          | 10.31       | 57.14        | -13.62          | Peak     | L    | Pass    |
| 4** | 0.436           | 33.41          | 10.31       | 47.14        | -13.73          | AV       | L    | Pass    |
| 5   | 0.594           | 40.47          | 10.28       | 56.00        | -15.53          | Peak     | L    | Pass    |
| 5** | 0.594           | 28.67          | 10.28       | 46.00        | -17.33          | AV       | L    | Pass    |
| 6   | 1.760           | 39.91          | 10.25       | 56.00        | -16.09          | Peak     | L    | Pass    |
| 6** | 1.760           | 27.74          | 10.25       | 46.00        | -18.26          | AV       | L    | Pass    |

## A.2.4 N Phase



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Over Limit (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-----------------|----------|------|---------|
| 1   | 0.152           | 57.50          | 10.41       | 65.89        | -8.39           | Peak     | N    | Pass    |
| 1** | 0.152           | 42.63          | 10.41       | 55.89        | -13.26          | AV       | N    | Pass    |
| 2   | 0.196           | 52.90          | 10.38       | 63.78        | -10.88          | Peak     | N    | Pass    |
| 2** | 0.196           | 36.29          | 10.38       | 53.78        | -17.49          | AV       | N    | Pass    |
| 3   | 0.422           | 43.73          | 10.31       | 57.41        | -13.68          | Peak     | N    | Pass    |
| 3** | 0.422           | 31.30          | 10.31       | 47.41        | -16.11          | AV       | N    | Pass    |
| 4   | 1.318           | 38.50          | 10.24       | 56.00        | -17.50          | Peak     | N    | Pass    |
| 4** | 1.318           | 26.97          | 10.24       | 46.00        | -19.03          | AV       | N    | Pass    |
| 5   | 4.214           | 37.91          | 10.31       | 56.00        | -18.09          | Peak     | N    | Pass    |
| 5** | 4.214           | 26.66          | 10.31       | 46.00        | -19.34          | AV       | N    | Pass    |
| 6   | 16.840          | 37.36          | 10.46       | 60.00        | -22.64          | Peak     | N    | Pass    |
| 6** | 16.840          | 23.87          | 10.46       | 50.00        | -26.13          | AV       | N    | Pass    |

## **ANNEX B TEST SETUP PHOTOS**

Please refer the document “BL-SZ2040775-AE.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ2040775-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SZ2040775-AI.PDF”.

--END OF REPORT--