



# FCC 15B TEST REPORT

No. I21Z60727-EMC01

for

**BLU Products, Inc.**

**Smart Phone**

**Model Name: B140DL**

**FCC ID: YHLBLUB140DL**

with

**Hardware Version: V1.0**

**Software Version: BLU\_B140DL\_V11.0.01.05.01.04\_FSec**

**Issued Date: 2021-06-15**

**Note:**

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

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## **REPORT HISTORY**

| <b>Report Number</b> | <b>Revision</b> | <b>Description</b>      | <b>Issue Date</b> |
|----------------------|-----------------|-------------------------|-------------------|
| I21Z60727-EMC01      | Rev.0           | 1 <sup>st</sup> edition | 2021-06-15        |

## **CONTENTS**

|                                                                        |           |
|------------------------------------------------------------------------|-----------|
| <b>1. TEST LABORATORY.....</b>                                         | <b>4</b>  |
| <b>1.1. TESTING LOCATION.....</b>                                      | <b>4</b>  |
| <b>1.2. TESTING ENVIRONMENT.....</b>                                   | <b>4</b>  |
| <b>1.3. PROJECT DATA.....</b>                                          | <b>4</b>  |
| <b>1.4. SIGNATURE.....</b>                                             | <b>4</b>  |
| <b>2. CLIENT INFORMATION.....</b>                                      | <b>5</b>  |
| <b>2.1. APPLICANT INFORMATION.....</b>                                 | <b>5</b>  |
| <b>2.2. MANUFACTURER INFORMATION.....</b>                              | <b>5</b>  |
| <b>3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE).....</b> | <b>6</b>  |
| <b>3.1. ABOUT EUT.....</b>                                             | <b>6</b>  |
| <b>3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST.....</b>   | <b>6</b>  |
| <b>3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST.....</b>    | <b>6</b>  |
| <b>3.4. EUT SET-UPS.....</b>                                           | <b>7</b>  |
| <b>4. REFERENCE DOCUMENTS.....</b>                                     | <b>7</b>  |
| <b>4.1. REFERENCE DOCUMENTS FOR TESTING.....</b>                       | <b>7</b>  |
| <b>5. LABORATORY ENVIRONMENT.....</b>                                  | <b>8</b>  |
| <b>6. SUMMARY OF TEST RESULTS.....</b>                                 | <b>9</b>  |
| <b>7. TEST EQUIPMENTS UTILIZED.....</b>                                | <b>10</b> |
| <b>ANNEX A: MEASUREMENT RESULTS.....</b>                               | <b>11</b> |
| <b>ANNEX B: PERSONS INVOLVED IN THIS TESTING.....</b>                  | <b>22</b> |

## **1. Test Laboratory**

### **1.1. Testing Location**

#### **Location 1: CTTL(huayuan North Road)**

Address: No. 52, Huayuan North Road, Haidian District, Beijing,  
P. R. China 100191

### **1.2. Testing Environment**

Normal Temperature: 15-35℃

Relative Humidity: 20-75%

### **1.3. Project data**

Testing Start Date: 2021-06-01

Testing End Date: 2021-06-11

### **1.4. Signature**



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An Hui

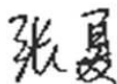
(Prepared this test report)



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Zhang Ying

(Reviewed this test report)



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Zhang Xia

Deputy Director of the laboratory

(Approved this test report)

## **2. Client Information**

### **2.1. Applicant Information**

Company Name: BLU Products,Inc.  
Address /Post: 10814 NW 33rd St # 100 Doral, FL 33172,USA  
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### **2.2. Manufacturer Information**

Company Name: BLU Products,inc  
Address /Post: 10814 NW 33rd St # 100 Doral, FL 33172,USA  
Contact: Zeng wei  
Email: zwei@ctasiasz.com  
Telephone: 305.715.7171  
Fax: 305.436.8819

### **3. Equipment Under Test (EUT) and Ancillary Equipment (AE)**

#### **3.1. About EUT**

|             |              |
|-------------|--------------|
| Description | Smart Phone  |
| Model Name  | B140DL       |
| FCC ID      | YHLBLUB140DL |

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT.

#### **3.2. Internal Identification of EUT used during the test**

| EUT ID* | SN or IMEI      | HW Version | SW Version                        |
|---------|-----------------|------------|-----------------------------------|
| EUT1    | 353011720019744 | V1.0       | BLU_B140DL_V11.0.01.05.01.04_FSec |

\*EUT ID: is used to identify the test sample in the lab internally.

#### **3.3. Internal Identification of AE used during the test**

| AE ID* | Description | SN | Note |
|--------|-------------|----|------|
| AE1    | Battery     | /  | /    |
| AE2    | Charger     | /  | /    |
| AE3    | USB Cable   | /  | /    |
| AE4    | USB Cable   | /  | /    |
| AE5    | Headset     | /  | /    |

##### **AE1**

|                 |                                |
|-----------------|--------------------------------|
| Model           | PT34H406082J                   |
| Manufacturer    | Ningbo Veken Battery Co., Ltd. |
| Capacitance     | 3310mAh                        |
| Nominal voltage | 3.85V                          |

##### **AE2**

|                 |                                            |
|-----------------|--------------------------------------------|
| Model           | P101-BTC130-000                            |
| Manufacturer    | Dong Guan City GangQi Electronic Co., Ltd. |
| Length of cable | /                                          |

##### **AE3**

|                 |                                         |
|-----------------|-----------------------------------------|
| Model           | T365-011B                               |
| Manufacturer    | Shenzhen Yihuaxing Electronics CO.,Ltd. |
| Length of cable | /88806-025                              |

##### **AE4**

|                 |                                            |
|-----------------|--------------------------------------------|
| Model           | 88806-025                                  |
| Manufacturer    | Shenzhen Chuangyitong Technology Co., Ltd. |
| Length of cable | /                                          |

AE5

|                 |         |
|-----------------|---------|
| Model           | Headset |
| Manufacturer    | /       |
| Length of cable | /       |

\*AE ID: is used to identify the test sample in the lab internally.

### **3.4. EUT set-ups**

| EUT set-up No. | Combination of EUT and AE | Remarks  |
|----------------|---------------------------|----------|
| Set.1          | EUT1+ AE1 + AE2+ AE3/AE4  | Charger1 |
| Set.2          | EUT1+ AE1 + AE3/AE4+AE5   | USB+FM   |

Note:

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM 850MHz, WCDMA Band5, LTE Bands 5/12/13/26/71. The measurement results showed here are worst cases of different bands.

## **4. Reference Documents**

### **4.1. Reference Documents for testing**

The following documents listed in this section are referred for testing.

| Reference              | Title                                                                                                                                                                            | Version |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| FCC Part 15, Subpart B | Radio frequency devices - Unintentional Radiators                                                                                                                                | 2019    |
| ANSI C63.4             | American National Standard for<br>Methods of Measurement of Radio-<br>Noise Emissions from Low-Voltage<br>Electrical and Electronic Equipment<br>in the Range of 9 kHz to 40 GHz | 2014    |

Note: The test methods have no deviation with standards.

## 5. LABORATORY ENVIRONMENT

**Semi-anechoic chamber SAC-1** (23 meters × 17meters × 10meters) did not exceed following limits along the EMC testing:

|                                                 |                                                 |
|-------------------------------------------------|-------------------------------------------------|
| Temperature                                     | Min. = 15 °C, Max. = 35 °C                      |
| Relative humidity                               | Min. = 15 %, Max. = 75 %                        |
| Shielding effectiveness                         | 0.014MHz-1MHz, >60dB;<br>1MHz - 1000MHz, >90dB. |
| Electrical insulation                           | > 2 MΩ                                          |
| Ground system resistance                        | < 4 Ω                                           |
| Normalised site attenuation (NSA)               | < ±4 dB, 10 m distance                          |
| Site voltage standing-wave ratio ( $S_{VSWR}$ ) | Between 0 and 6 dB, from 1GHz to 6GHz           |
| Uniformity of field strength                    | Between 0 and 6 dB, from 80 to 3000 MHz         |

**Shielded room** did not exceed following limits along the EMC testing:

|                          |                                               |
|--------------------------|-----------------------------------------------|
| Temperature              | Min. = 15 °C, Max. = 35 °C                    |
| Relative humidity        | Min. = 20 %, Max. = 75 %                      |
| Shielding effectiveness  | 0.014MHz-1MHz, >60dB;<br>1MHz—1000MHz, >90dB. |
| Electrical insulation    | > 2 MΩ                                        |
| Ground system resistance | < 4 Ω                                         |

## 6. SUMMARY OF TEST RESULTS

| Abbreviations used in this clause: |    |                                           |
|------------------------------------|----|-------------------------------------------|
| Verdict Column                     | P  | Pass                                      |
|                                    | NA | Not applicable                            |
|                                    | F  | Fail                                      |
|                                    | BR | Re-use test data from basic model report. |

| Items | Test Name          | Clause in FCC rules | Section in this report | Verdict | Test Location            |
|-------|--------------------|---------------------|------------------------|---------|--------------------------|
| 1     | Radiated Emission  | 15.109(a)           | A.1                    | P       | CTTL(huayuan North Road) |
| 2     | Conducted Emission | 15.107(a)           | A.2                    | P       | CTTL(huayuan North Road) |

## 7. Test Equipments Utilized

| NO. | Description                          | TYPE      | SERIES NUMBER | MANUFACTURE  | CAL DUE DATE | CALIBRATION INTERVAL |
|-----|--------------------------------------|-----------|---------------|--------------|--------------|----------------------|
| 1   | Test Receiver                        | ESCI      | 100344        | R&S          | 2022-02-23   | 1 year               |
| 2   | LISN                                 | ESH3-Z5   | 825562/028    | R&S          | 2021-10-15   | 1 year               |
| 3   | Universal Radio Communication Tester | CMW500    | 116588        | R&S          | 2021-12-07   | 1 year               |
| 4   | Signal Generator                     | SMBV100A  | 260613        | R&S          | 2022-01-06   | 1 year               |
| 5   | Test Receiver                        | ESU 26    | 100235        | R&S          | 2022/02/23   | 1 Year               |
| 6   | EMI Antenna                          | VULB 9163 | 483           | SCHWARZBECK  | 2021/08/27   | 1 year               |
| 7   | EMI Antenna                          | 3115      | 6914          | ETS-Lindgren | 2022-02-03   | 1 year               |
| 8   | Printer                              | P1606dn   | VNC3L52122    | HP           | N/A          | N/A                  |
| 9   | Keyboard                             | KU-1601   | 2048361       | Lenovo       | N/A          | N/A                  |
| 10  | Mouse                                | EMS-537A  | 8021S3MC      | Lenovo       | N/A          | N/A                  |
| 11  | PC                                   | M4000e-17 | M706RMW2      | Lenovo       | N/A          | N/A                  |

| Test Item                    | Test Software and Version | Software Vendor |
|------------------------------|---------------------------|-----------------|
| Radiated Continuous Emission | EMC32 V9.01.0             | R&S             |
| Conducted Emission           | EMC32 V8.52.0             | R&S             |

## **ANNEX A: MEASUREMENT RESULTS**

### **A.1 Radiated Emission**

#### **Reference**

FCC: CFR Part 15.109(a).

#### **A.1.1 Method of measurement**

The field strength of radiated emissions from the unintentional radiator (charging mode) at distances of 10 meters(for 30MHz-1GHz) and 3 meters (for above 1GHz) is tested. Tested in accordance with the procedures of ANSI C63.4 – 2014, section 8.3.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3/10 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

#### **A.1.2 EUT Operating Mode:**

The MS is operating in the charging mode. During the test MS is connected to a charger in the case of charging mode.

The EUT was tested while operating in licensed band Rx mode. All licensed band receivers that tune in the range of 30MHz-960MHz, as listed in Section 3.4, are investigated. Only the worst case emissions are reported.

All equipment is placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions.

#### **A.1.3 Measurement Limit**

| Frequency range<br>(MHz) | Field strength limit (μV/m) |         |      |
|--------------------------|-----------------------------|---------|------|
|                          | Quasi-peak                  | Average | Peak |
| 30-88                    | 100                         |         |      |
| 88-216                   | 150                         |         |      |
| 216-960                  | 200                         |         |      |
| 960-1000                 | 500                         |         |      |
| >1000                    |                             | 500     | 5000 |

Note: the above limit is for 3 meters test distance. 10 meters' limit is got by converting.

$$\text{Limit}(10\text{m})=\text{Limit}(3\text{m})+20[\log(3/10)]$$

#### **A.1.4 Test Condition**

| Frequency range (MHz) | RBW/VBW               | Sweep Time (s) | Detector        |
|-----------------------|-----------------------|----------------|-----------------|
| 30-1000               | 120kHz (IF Bandwidth) | 5              | Peak/Quasi-peak |
| Above 1000            | 1MHz/1MHz             | 15             | Peak, Average   |

### A.1.5 Measurement Results

A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss". It includes the antenna factor of receive antenna and the path loss.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{Rpl} = P_{\text{Mea}} + G_A + G_{PL}$$

Where

$G_A$ : Antenna factor of receive antenna

$G_{PL}$ : Path Loss

$P_{\text{Mea}}$ : Measurement result on receiver.

Measurement uncertainty (worst case): 30MHz-1GHz: 5.40dB, 1GHz-18GHz: 4.32dB,  $k=2$ .

Note: The measurement results showed here are worst cases of the combinations of different Battery, cables and Headset.

Note: The measurement results showed here are worst cases.

#### Measurement results for Set.1:

##### EUT1 Charger + Back Camera +GSM 850MHz idle Mode/QP detector

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------|----------------|-------------|-------------|-----|---------------|
| 55.802000       | 13.82              | 29.50          | 15.72       | 297.0       | V   | 283.0         |
| 78.015000       | 12.33              | 29.50          | 17.21       | 125.0       | V   | -25.0         |
| 141.938000      | 10.23              | 33.10          | 22.83       | 121.0       | V   | -9.0          |
| 146.982000      | 9.63               | 33.10          | 23.43       | 219.0       | V   | -9.0          |
| 154.354000      | 9.38               | 33.10          | 23.68       | 125.0       | V   | 20.0          |
| 476.879000      | 15.00              | 35.60          | 20.56       | 336.0       | V   | 291.0         |

##### EUT1 Charger + Back Camera +GSM 850MHz idle Mode/Average detector

| Frequency (MHz) | Result (dBμV/m) | $G_{PL}$ (dB) | $G_A$ (dB/m) | $P_{\text{Mea}}$ (dBμV) | Polarity | Limit (dBμV/m) | Margin (dB) |
|-----------------|-----------------|---------------|--------------|-------------------------|----------|----------------|-------------|
| 17983.000       | 47.9            | -29.1         | 46.7         | 30.298                  | H        | 54             | 6.1         |
| 17975.633       | 47.2            | -29.1         | 46.7         | 29.601                  | H        | 54             | 6.8         |
| 17986.400       | 47.2            | -29.1         | 46.7         | 29.598                  | V        | 54             | 6.8         |
| 17873.633       | 47.0            | -29.4         | 46.0         | 30.439                  | V        | 54             | 7.0         |
| 17974.500       | 46.9            | -29.1         | 46.7         | 29.301                  | V        | 54             | 7.1         |
| 17961.467       | 46.8            | -29.1         | 46.7         | 29.201                  | H        | 54             | 7.2         |

##### EUT1 Charger + Back Camera +GSM 850MHz idle Mode/Peak detector

| Frequency (MHz) | Result (dBμV/m) | $G_{PL}$ (dB) | $G_A$ (dB/m) | $P_{\text{Mea}}$ (dBμV) | Polarity | Limit (dBμV/m) | Margin (dB) |
|-----------------|-----------------|---------------|--------------|-------------------------|----------|----------------|-------------|
| 17938.233       | 56.0            | -29.4         | 46.7         | 38.739                  | V        | 74             | 18.0        |
| 17952.400       | 55.8            | -28.9         | 46.7         | 38.083                  | V        | 74             | 18.2        |
| 17960.333       | 55.8            | -29.1         | 46.7         | 38.201                  | H        | 74             | 18.2        |
| 17980.733       | 55.8            | -29.1         | 46.7         | 38.198                  | V        | 74             | 18.2        |
| 17990.933       | 55.7            | -29.1         | 46.7         | 38.098                  | H        | 74             | 18.3        |
| 17955.233       | 55.6            | -28.9         | 46.7         | 37.883                  | V        | 74             | 18.4        |

**Measurement results for Set.1:**
**EUT1 Charger+MP4 Mode/QP detector**

| Frequency (MHz) | QuasiPeak (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------------|----------------------|-------------|-------------|-----|---------------|
| 55.220000       | 13.99                    | 29.50                | 15.55       | 345.0       | V   | 271.0         |
| 78.015000       | 11.95                    | 29.50                | 17.59       | 121.0       | V   | -23.0         |
| 90.722000       | 11.64                    | 33.10                | 21.42       | 125.0       | V   | 276.0         |
| 141.162000      | 9.33                     | 33.10                | 23.73       | 125.0       | V   | 30.0          |
| 175.985000      | 9.04                     | 33.10                | 24.02       | 102.0       | V   | 92.0          |
| 253.585000      | 9.99                     | 35.60                | 25.57       | 125.0       | V   | 109.0         |

**EUT1 Charger+MP4 Mode/Average detector**

| Frequency (MHz) | Result (dB $\mu$ V/m) | G <sub>PL</sub> (dB) | G <sub>A</sub> (dB/m) | P <sub>Mea</sub> (dB $\mu$ V) | Polarity | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|-----------------------|----------------------|-----------------------|-------------------------------|----------|----------------------|-------------|
| 17986.400       | 47.2                  | -29.1                | 46.7                  | 29.598                        | V        | 54                   | 6.8         |
| 17990.933       | 47.1                  | -29.1                | 46.7                  | 29.498                        | V        | 54                   | 6.9         |
| 17896.867       | 47.0                  | -29.5                | 46.0                  | 30.580                        | V        | 54                   | 7.0         |
| 17992.633       | 47.0                  | -29.1                | 46.7                  | 29.398                        | V        | 54                   | 7.0         |
| 17939.367       | 46.8                  | -29.4                | 46.7                  | 29.539                        | V        | 54                   | 7.2         |
| 17948.433       | 46.7                  | -28.9                | 46.7                  | 28.983                        | H        | 54                   | 7.3         |

**EUT1 Charger+MP4 Mode/Peak detector**

| Frequency (MHz) | Result (dB $\mu$ V/m) | G <sub>PL</sub> (dB) | G <sub>A</sub> (dB/m) | P <sub>Mea</sub> (dB $\mu$ V) | Polarity | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|-----------------------|----------------------|-----------------------|-------------------------------|----------|----------------------|-------------|
| 17852.667       | 56.2                  | -29.3                | 46.0                  | 39.582                        | H        | 74                   | 17.8        |
| 17956.933       | 56.2                  | -28.9                | 46.7                  | 38.483                        | V        | 74                   | 17.8        |
| 17969.967       | 55.7                  | -29.1                | 46.7                  | 38.101                        | H        | 74                   | 18.3        |
| 17948.433       | 55.6                  | -28.9                | 46.7                  | 37.883                        | H        | 74                   | 18.4        |
| 17981.867       | 55.4                  | -29.1                | 46.7                  | 37.798                        | H        | 74                   | 18.6        |
| 17984.133       | 55.3                  | -29.1                | 46.7                  | 37.698                        | H        | 74                   | 18.7        |

**Measurement results for Set.2:**
**EUT1 USB + FM Mode/QP detector**

| Frequency (MHz) | QuasiPeak (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------------|----------------------|-------------|-------------|-----|---------------|
| 31.164000       | 25.02                    | 29.50                | 4.52        | 125.0       | V   | 277.0         |
| 32.037000       | 21.28                    | 29.50                | 8.26        | 111.0       | V   | 247.0         |
| 71.904000       | 18.89                    | 29.50                | 10.65       | 103.0       | V   | 198.0         |
| 167.934000      | 17.36                    | 33.10                | 15.70       | 103.0       | V   | 69.0          |
| 216.046000      | 23.50                    | 35.60                | 12.06       | 125.0       | V   | 13.0          |
| 495.600000      | 24.95                    | 35.60                | 10.61       | 227.0       | V   | 30.0          |

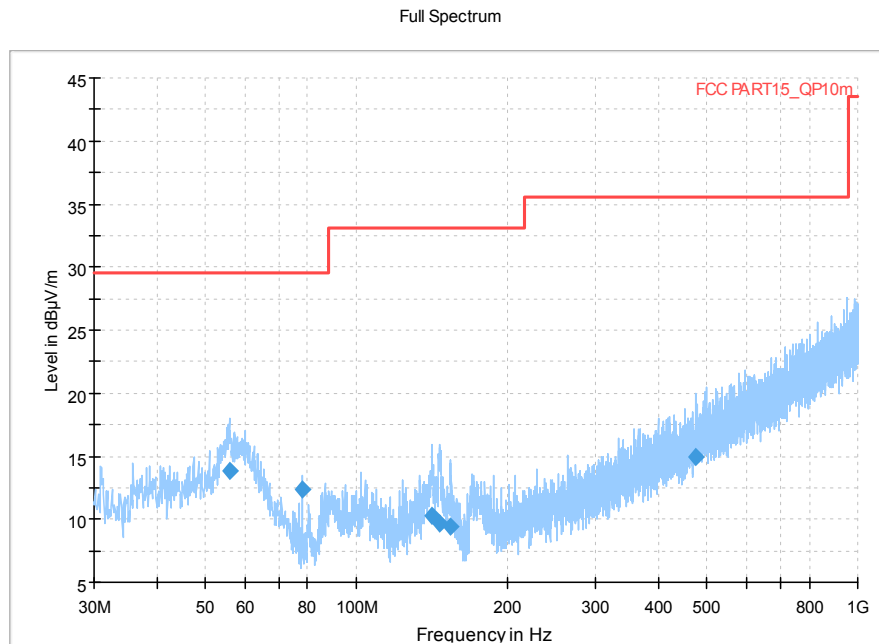
**EUT1 USB+FM Mode/Average detector**

| Frequency (MHz) | Result (dB $\mu$ V/m) | G <sub>PL</sub> (dB) | G <sub>A</sub> (dB/m) | P <sub>Mea</sub> (dB $\mu$ V) | Polarity | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|-----------------------|----------------------|-----------------------|-------------------------------|----------|----------------------|-------------|
| 17976.767       | 48.1                  | -29.1                | 46.7                  | 30.501                        | H        | 54                   | 5.9         |
| 17967.700       | 47.3                  | -29.1                | 46.7                  | 29.701                        | H        | 54                   | 6.7         |
| 17985.833       | 47.2                  | -29.1                | 46.7                  | 29.598                        | V        | 54                   | 6.8         |
| 17966.000       | 47.1                  | -29.1                | 46.7                  | 29.501                        | H        | 54                   | 6.9         |
| 17963.733       | 47.0                  | -29.1                | 46.7                  | 29.401                        | H        | 54                   | 7.0         |
| 17941.633       | 46.8                  | -28.9                | 46.7                  | 29.083                        | V        | 54                   | 7.2         |

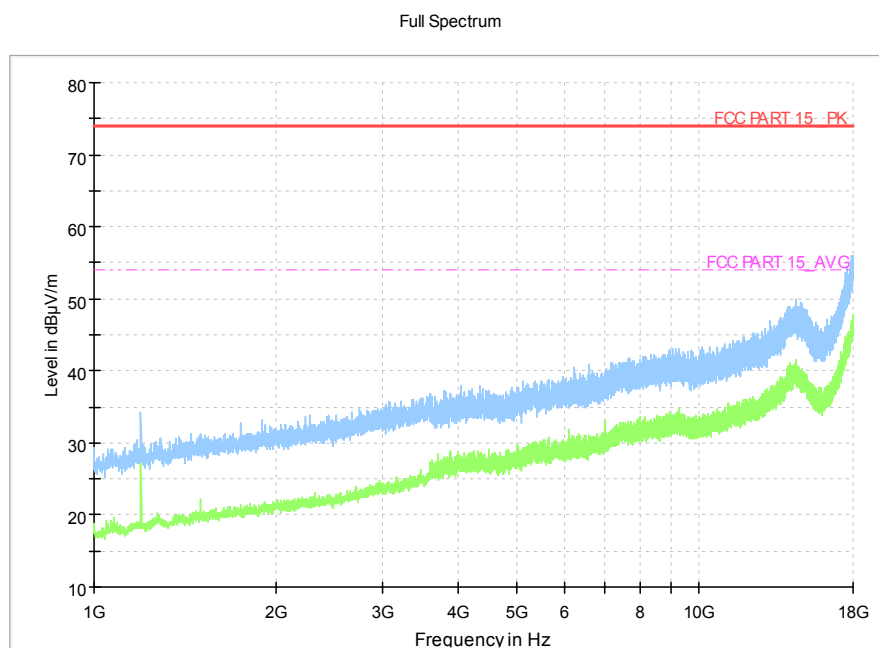
**EUT1 USB+FM Mode/Peak detector**

| Frequency (MHz) | Result (dB $\mu$ V/m) | G <sub>PL</sub> (dB) | G <sub>A</sub> (dB/m) | P <sub>Mea</sub> (dB $\mu$ V) | Polarity | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|-----------------------|----------------------|-----------------------|-------------------------------|----------|----------------------|-------------|
| 17964.867       | 56.8                  | -29.1                | 46.7                  | 39.201                        | V        | 74                   | 17.2        |
| 17978.467       | 56.7                  | -29.1                | 46.7                  | 39.101                        | V        | 74                   | 17.3        |
| 17972.233       | 56.0                  | -29.1                | 46.7                  | 38.401                        | V        | 74                   | 18.0        |
| 17998.867       | 55.9                  | -29.1                | 46.7                  | 38.298                        | V        | 74                   | 18.1        |
| 17960.333       | 55.9                  | -29.1                | 46.7                  | 38.301                        | H        | 74                   | 18.1        |
| 17963.733       | 55.6                  | -29.1                | 46.7                  | 38.001                        | V        | 74                   | 18.4        |

**EUT1 Charger+Back Camera+GSM 850MHz idle Mode, Set.1**



**Figure A.1 Radiated Emission from 30MHz to 1GHz**



**Figure A.2 Radiated Emission from 1GHz to 18GHz**

# EUT1 Charger+MP4 Mode, Set.1

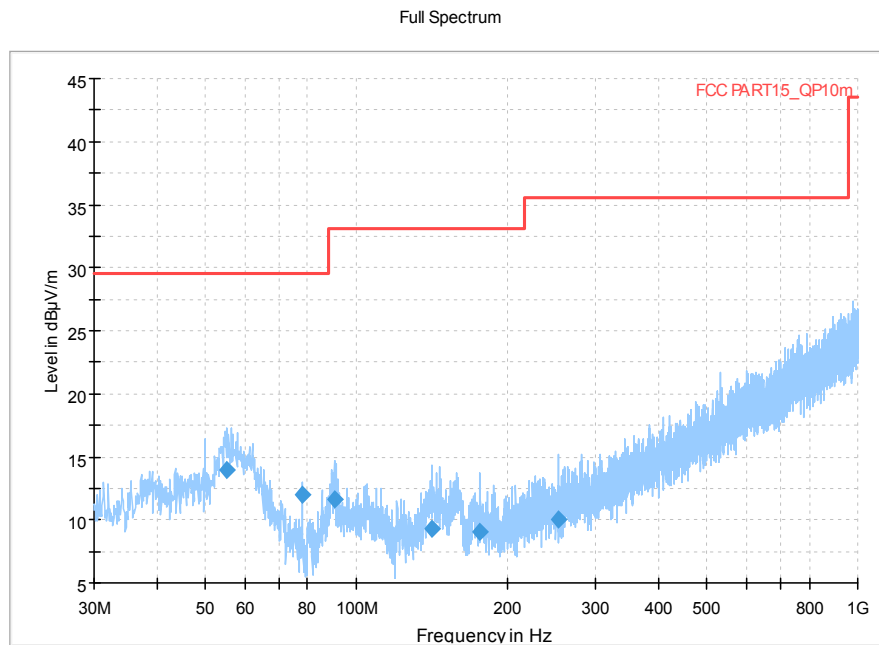


Figure A.3 Radiated Emission from 30MHz to 1GHz

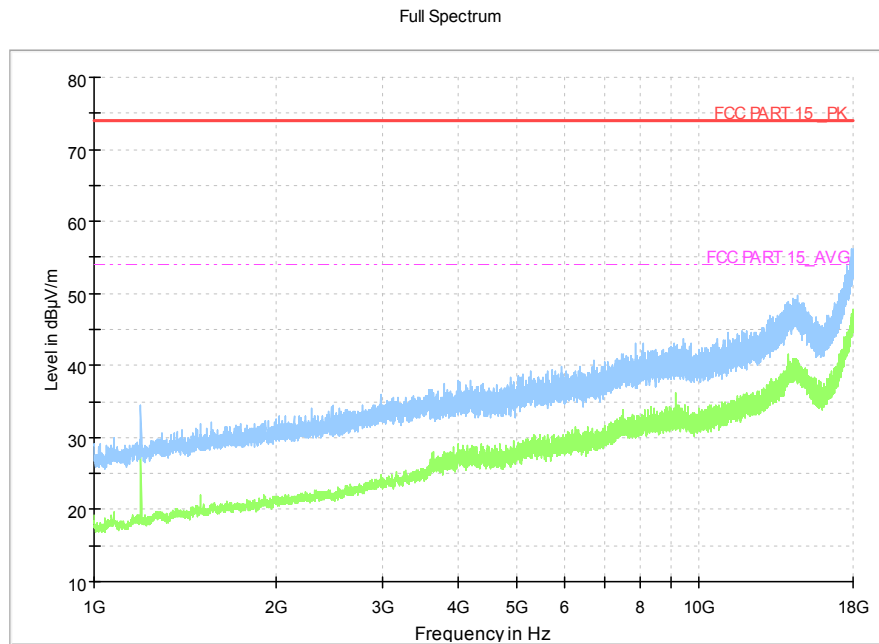
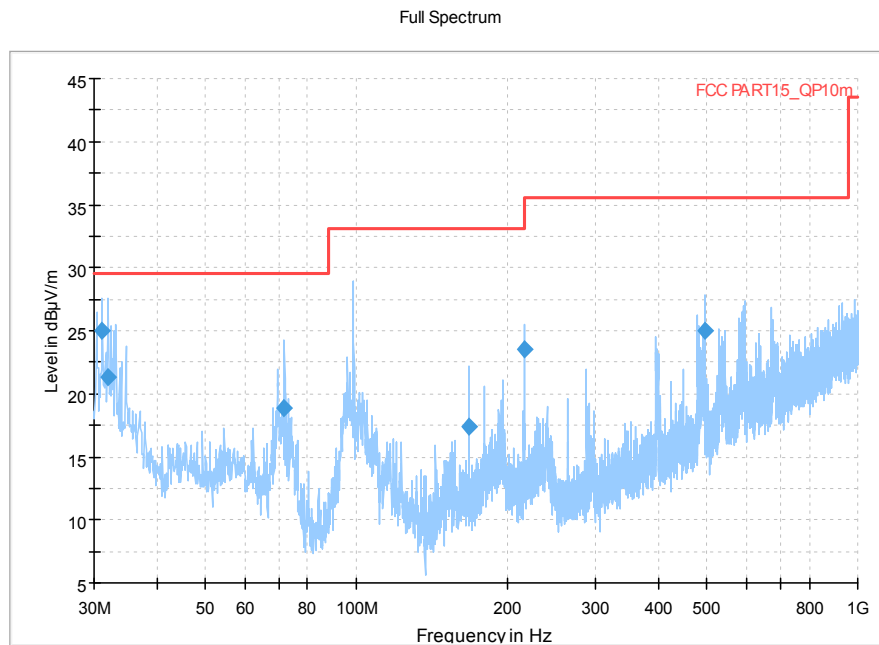
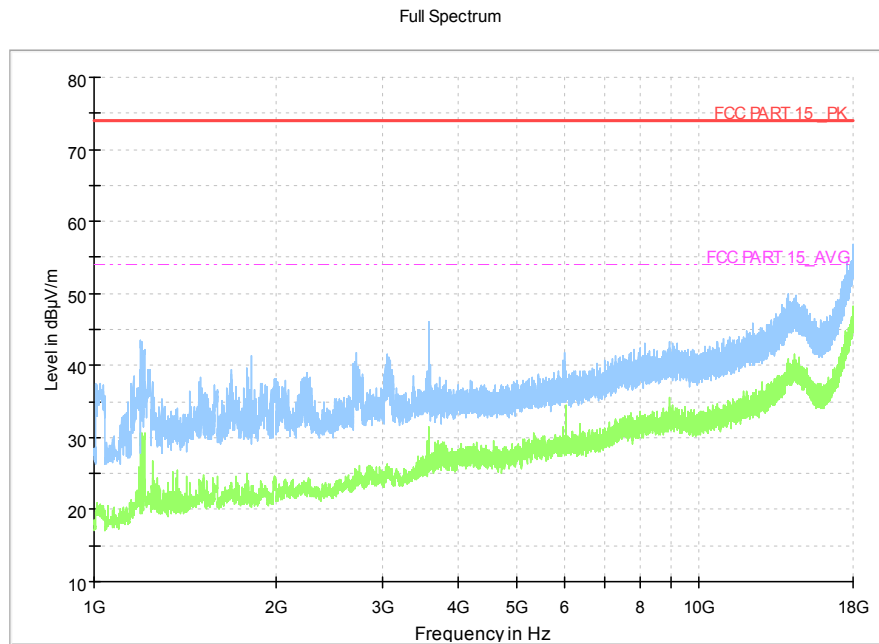


Figure A.4 Radiated Emission from 1GHz to 18GHz

**EUT1 USB+FM Mode, Set.2**



**Figure A.5 Radiated Emission from 30MHz to 1GHz**



**Figure A.6 Radiated Emission from 1GHz to 18GHz**

## A.2 Conducted Emission

### Reference

FCC: CFR Part 15.107(a).

### A.2.1 Method of measurement

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 – 2014, section 7.3.

### A.2.2 EUT Operating Mode

The MS is operating in the charging mode. During the test MS is connected to a charger in the case of charging mode.

### A.2.3 Measurement Limit

| Frequency of emission (MHz)                    | Conducted limit (dBμV) |           |
|------------------------------------------------|------------------------|-----------|
|                                                | Quasi-peak             | Average   |
| 0.15-0.5                                       | 66 to 56*              | 56 to 46* |
| 0.5-5                                          | 56                     | 46        |
| 5-30                                           | 60                     | 50        |
| *Decreases with the logarithm of the frequency |                        |           |

### A.2.4 Test Condition in charging mode

|             |                |
|-------------|----------------|
| Voltage (V) | Frequency (Hz) |
| 120         | 60             |

|                  |               |
|------------------|---------------|
| RBW/IF bandwidth | Sweep Time(s) |
| 9kHz             | 1             |

### A.2.5 Measurement Results

Measurement uncertainty:  $U=3.10\text{dB}$ ,  $k=2$ .

Note: The measurement results showed here are worst cases of the combinations of different Battery, cables and Headset.

Note: The measurement results showed here are worst cases.

#### EUT1 Charger+Back Camera+GSM 850MHz Idle Mode, Set.1

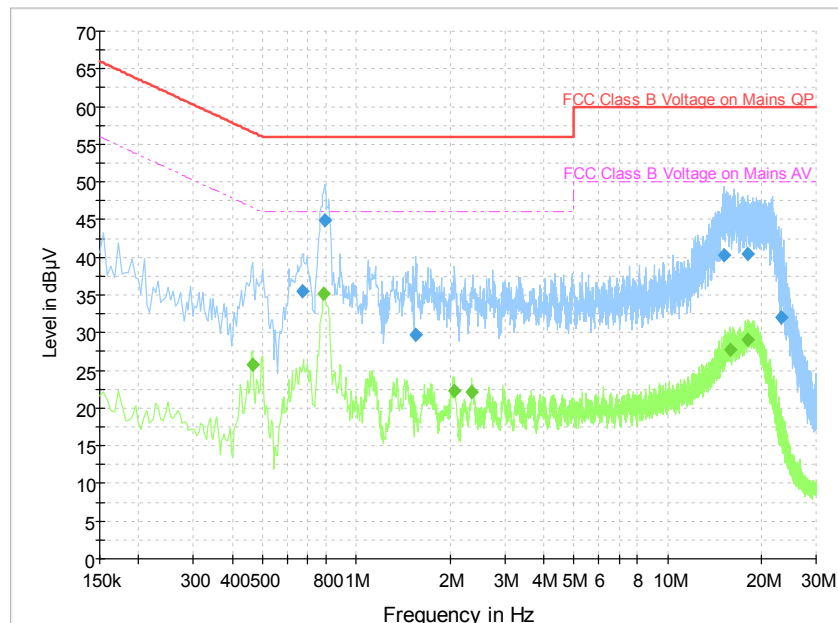


Figure A.10 Conducted Emission

#### Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | PE  | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 0.672000        | 35.5             | GND | L1   | 9.9        | 20.5        | 56.0         |
| 0.793500        | 44.9             | GND | N    | 10.0       | 11.1        | 56.0         |
| 1.549500        | 29.6             | GND | L1   | 10.0       | 26.4        | 56.0         |
| 15.162000       | 40.4             | GND | N    | 11.4       | 19.6        | 60.0         |
| 18.024000       | 40.5             | GND | L1   | 11.8       | 19.5        | 60.0         |
| 23.280000       | 32.1             | GND | L1   | 12.3       | 27.9        | 60.0         |

#### Final Result 2

| Frequency (MHz) | CAverage (dBμV) | PE  | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|-----------------|-----|------|------------|-------------|--------------|
| 0.465000        | 25.7            | GND | N    | 10.0       | 20.9        | 46.6         |
| 0.784500        | 35.2            | GND | L1   | 10.0       | 10.8        | 46.0         |
| 2.062500        | 22.3            | GND | N    | 10.0       | 23.7        | 46.0         |
| 2.350500        | 22.1            | GND | L1   | 10.1       | 23.9        | 46.0         |
| 15.913500       | 27.8            | GND | L1   | 11.5       | 22.2        | 50.0         |
| 18.136500       | 29.1            | GND | L1   | 11.8       | 20.9        | 50.0         |

## EUT1 Charger+MP4 Mode, Set.1

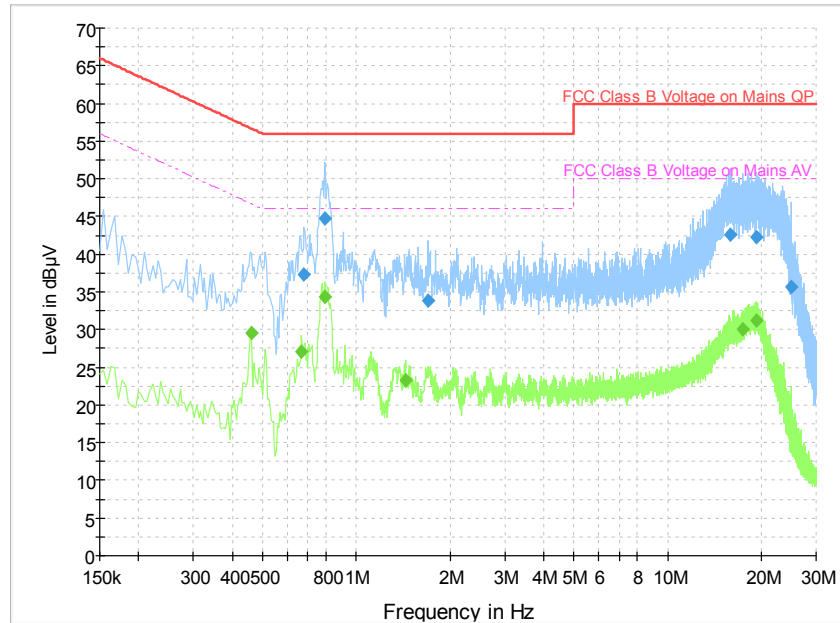


Figure A.11 Conducted Emission

### Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | PE  | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 0.681000        | 37.4             | GND | N    | 9.9        | 18.6        | 56.0         |
| 0.793500        | 44.8             | GND | N    | 10.0       | 11.2        | 56.0         |
| 1.702500        | 33.8             | GND | L1   | 10.0       | 22.2        | 56.0         |
| 15.855000       | 42.6             | GND | L1   | 11.5       | 17.4        | 60.0         |
| 19.261500       | 42.3             | GND | N    | 11.9       | 17.7        | 60.0         |
| 24.868500       | 35.7             | GND | N    | 12.2       | 24.3        | 60.0         |

### Final Result 2

| Frequency (MHz) | CAverage (dBμV) | PE  | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|-----------------|-----|------|------------|-------------|--------------|
| 0.460500        | 29.5            | GND | L1   | 10.0       | 17.2        | 46.7         |
| 0.667500        | 27.1            | GND | L1   | 9.9        | 19.0        | 46.0         |
| 0.793500        | 34.3            | GND | L1   | 10.0       | 11.7        | 46.0         |
| 1.441500        | 23.3            | GND | L1   | 10.0       | 22.7        | 46.0         |
| 17.430000       | 30.0            | GND | L1   | 11.7       | 20.0        | 50.0         |
| 19.234500       | 31.1            | GND | N    | 11.9       | 18.9        | 50.0         |

## EUT1 USB+FM Mode, Set.2

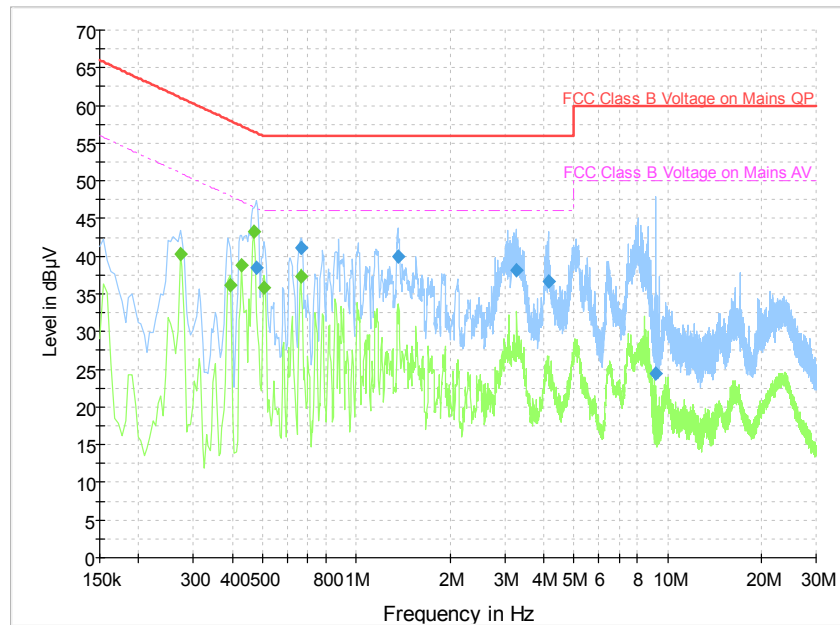


Figure A.12 Conducted Emission

### Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | PE  | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 0.478500        | 38.4             | GND | N    | 10.0       | 17.9        | 56.4         |
| 0.663000        | 41.2             | GND | L1   | 9.9        | 14.8        | 56.0         |
| 1.360500        | 39.9             | GND | L1   | 10.0       | 16.1        | 56.0         |
| 3.255000        | 38.1             | GND | L1   | 10.0       | 17.9        | 56.0         |
| 4.137000        | 36.7             | GND | L1   | 10.1       | 19.3        | 56.0         |
| 9.150000        | 24.4             | GND | L1   | 10.5       | 35.6        | 60.0         |

### Final Result 2

| Frequency (MHz) | CAverage (dBμV) | PE  | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|-----------------|-----|------|------------|-------------|--------------|
| 0.271500        | 40.3            | GND | N    | 10.0       | 10.8        | 51.1         |
| 0.393000        | 36.2            | GND | L1   | 10.0       | 11.8        | 48.0         |
| 0.429000        | 38.7            | GND | L1   | 10.0       | 8.5         | 47.3         |
| 0.469500        | 43.3            | GND | L1   | 10.0       | 3.2         | 46.5         |
| 0.505500        | 35.9            | GND | L1   | 10.0       | 10.1        | 46.0         |
| 0.663000        | 37.4            | GND | L1   | 9.9        | 8.6         | 46.0         |

**ANNEX B: Persons involved in this testing**

| Test Item                     | Tester                  |
|-------------------------------|-------------------------|
| Conducted Continuous Emission | Li Pengfei,Zhang Tianli |
| Radiated Continuous Emission  | Yang Mengke             |

**\*\*\*END OF REPORT\*\*\***