



TEST REPORT

No. I15Z42273-EMC01

for

TCL Communication Ltd.

HSDPA/HSUPA/UMTS quad band / GSM quad band /LTE 7 bands

mobile phone

Model Name: 5017W

FCC ID: 2ACCJH035

with

Hardware Version: PIO

Software Version: v1BD9

Issued Date: 2015-09-11

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

FCC 2.948 Listed: No. 525429

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REPORT HISTORY

| Report Number | Revision | Description | Issue Date |
|-----------------|----------|-------------|------------|
| I15Z42273-EMC01 | Rev.0 | 1st edition | 2015-09-11 |

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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°C

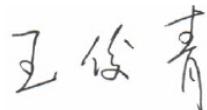
Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2015-05-11

Testing End Date: 2015-09-09

1.4. Signature



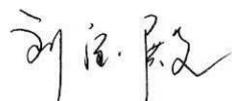
Wang Junqing

(Prepared this test report)



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Deputy Director of the laboratory

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2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
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Pudong Area Shanghai, P.R. China.
City: Shanghai
Postal Code: 201203
Country: China
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Contact Email: zhizhou.gong@tcl.com
Telephone: 0086-21-51798260
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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China.
City: Shanghai
Postal Code: 201203
Country: China
Telephone: 0086-21-51798260
Fax: 0086-21-61460602

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

3.1. About EUT

| | |
|---------------------|----------------------------------------------------------------------|
| Description | HSDPA/HSUPA/UMTS quad band / GSM quad band /LTE 7 bands mobile phone |
| Model Name | 5017W |
| FCC ID | 2ACCJH035 |
| Extreme vol. Limits | 3.5VDC to 4.2VDC (nominal: 3.8VDC) |

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MIIT of People's Republic of China.

3.2. Internal Identification of EUT used during the test

| EUT ID* | SN or IMEI | HW Version | SW Version |
|---------|-----------------|------------|------------|
| EUT1 | 354385070100091 | PIO | v1BD9 |

*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 | Remarks |
|--------|----------------|----|---------------|
| AE1 | Battery | / | 15TCT-BA-0593 |
| AE3 | Battery | / | 15TCT-BA-0574 |
| AE5 | Travel charger | / | 15TCT-CH-0883 |
| AE7 | Travel charger | / | 15TCT-CH-0175 |
| AE13 | USB cable | / | 15TCT-DC-0682 |
| AE15 | USB cable | / | 14TCT-DC-0616 |
| AE16 | USB cable | / | / |
| AE17 | USB cable | / | / |

AE1

| | |
|-----------------|--------------|
| Model | CAB1780006C1 |
| Manufacturer | BYD |
| Capacitance | 1780mAh |
| Nominal voltage | 3.8V |

AE3

| | |
|-----------------|--------------|
| Model | CAB1780004C2 |
| Manufacturer | SCUD |
| Capacitance | 1780mAh |
| Nominal voltage | 3.8V |

AE5

| | |
|-----------------|--------------|
| Model | CBA0066AG2C2 |
| Manufacturer | Tenpao |
| Length of cable | 118cm |

AE7

Model CBA0066AG2C1
Manufacturer BYD
Length of cable 122cm

AE13

Model CDA3122002C2
Manufacturer Shenghua
Length of cable 98cm

AE15

Model CDA3122002C1
Manufacturer JUWEI
Length of cable 98cm

AE16

Model CDA3122005C2
Manufacturer Shenghua
Length of cable /

AE17

Model CDA3122005C1
Manufacturer Juwei
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/AE3 +AE7 | Charger |
| Set.5 | EUT1 +AE1/AE3 +AE13/AE15 | USB |
| Set.6 | EUT1 +AE1/AE3 +AE5 | Charger |

Note: The HSDPA/HSUPA/UMTS quad band / GSM quad band /LTE 7 bands mobile phone 5017W manufactured by TCL Communication Ltd. is a variant model based on 5017A for conformance test. According to the declaration of changes, the following items are tested on Set.1 and Set.5.

| Mode or Feature | EUT set-up No | Test Item |
|-----------------|---------------|-------------------|
| Charger | Set.1 | Radiated Emission |
| USB | Set.5 | Radiated Emission |

Other results are inherited from the initial model. The report number of initial model is I15Z41823-EMC01.

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 | 10-1-13 |
| ANSI C63.4 | Methods of Measurement of Radio-Noise Emissions from Low - Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | Edition 2014 |

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; 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 |

6. SUMMARY OF TEST RESULTS

| Abbreviations used in this clause: | | | |
|------------------------------------|----|-------------------------------------------------------------------------------------------|--|
| Verdict Column | P | Pass | |
| | NA | Not applicable | |
| | F | Fail | |
| Location Column | 1 | The test is performed in test location 1 which is described in section 1.1 of this report | |

| Clause | List | Clause in FCC rules | Verdict | Location |
|--------|--------------------|---------------------|---------|----------|
| 1 | Radiated Emission | 15.109(a) | P | 1 |
| 2 | Conducted Emission | 15.107(a) | P | 1 |

7. Test Equipments Utilized

| NO. | DESCRIPTION | TYPE | SERIES NUMBER | MANUFACTURE | CAL DUE DATE | CALIBRATION INTERVAL |
|-----|-----------------------------------------------|-----------------|------------------------------|--------------|--------------|----------------------|
| 1 | Test Receiver | ESCI | 100344 | R&S | 2016-03-03 | 1 year |
| 2 | Test Receiver | ESCI 7 | 100948 | R&S | 2016-07-07 | 1 year |
| 3 | Universal Radio Communication Tester | CMU200 | 109914 | R&S | 2016-03-26 | 1 year |
| 4 | Test Receiver | FSV | 101047 | R&S | 2016-07-02 | 1 year |
| 5 | LISN | ESH2-Z5 | 829991/012 | R&S | 2016-04-12 | 1 year |
| 6 | EMI Antenna | VULB 9163 | 9163-234 | Schwarzbeck | 2016-09-16 | 3 years |
| 7 | EMI Antenna | 3115 | 9906-5827 | ETS-Lindgren | 2016-11-19 | 3 years |
| 8 | PC | OPTIPLEX 380 | 2X1YV2X | DELL | N/A | N/A |
| 9 | Monitor | E178FPc | CN-OWR979-64180 -7AJ-D2MS | DELL | N/A | N/A |
| 10 | Printer | P1606dn | VNC3L52122 | HP | N/A | N/A |
| 11 | Keyboard | L100 | CN0RH659658907 ATOI40 | DELL | N/A | N/A |
| 12 | Mouse | M-UAE119 | LZ935220ZRC | Lenovo | N/A | N/A |

ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission (§15.109(a))

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (USB mode of MS and charging mode of MS) 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 USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode. The model of the PC is DELL OPTIPLEX 380, and the serial number of the PC is 2X1YV2X. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

A.1.3 Measurement Limit

| Frequency range (MHz) | Field strength limit (μ V/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.

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_{Mea} : Measurement result on receiver.

Measurement uncertainty (worst case): $U = 4.3 \text{ dB}$, $k=2$.

Measurement results for Set.1:

Charging Mode/Average detector

| Frequency(MHz) | Result(dB μ V/m) | G_{PL} (dB) | G_A (dB/m) | P_{Mea} (dB μ V) | Polarity |
|----------------|----------------------|---------------|--------------|-------------------------------|----------|
| 9892.133 | 35.0 | -24.9 | 38.0 | 21.900 | V |
| 9780.500 | 34.9 | -24.8 | 38.0 | 21.700 | V |
| 9710.233 | 34.9 | -24.5 | 38.0 | 21.400 | V |
| 9702.300 | 34.8 | -24.5 | 38.0 | 21.300 | H |
| 9908.000 | 34.8 | -24.9 | 38.0 | 21.700 | V |
| 9749.333 | 34.8 | -24.5 | 38.0 | 21.300 | H |

Charging Mode/Peak detector

| Frequency(MHz) | Result(dB μ V/m) | G_{PL} (dB) | G_A (dB/m) | P_{Mea} (dB μ V) | Polarity |
|----------------|----------------------|---------------|--------------|-------------------------------|----------|
| 9739.700 | 47.0 | -24.5 | 38.0 | 33.500 | H |
| 9956.733 | 46.9 | -24.9 | 38.0 | 33.800 | V |
| 9675.667 | 46.8 | -24.5 | 38.0 | 33.300 | V |
| 9767.467 | 46.6 | -24.8 | 38.0 | 33.400 | H |
| 9795.233 | 46.5 | -24.8 | 38.0 | 33.300 | V |
| 9868.333 | 46.4 | -24.9 | 38.0 | 33.300 | V |

Measurement results for Set.5:
USB Mode/Average detector

| Frequency(MHz) | Result(dB μ V/m) | G _{PL} (dB) | G _A (dB/m) | P _{Mea} (dB μ V) | Polarity |
|----------------|----------------------|----------------------|-----------------------|-------------------------------|----------|
| 9760.100 | 35.0 | -24.5 | 38.0 | 21.500 | H |
| 9951.067 | 34.9 | -24.9 | 38.0 | 21.800 | V |
| 9980.533 | 34.9 | -24.2 | 38.0 | 21.100 | H |
| 9706.833 | 34.9 | -24.5 | 38.0 | 21.400 | V |
| 9875.133 | 34.8 | -24.9 | 38.0 | 21.700 | H |
| 9942.000 | 34.8 | -24.9 | 38.0 | 21.700 | H |

USB Mode/Peak detector

| Frequency(MHz) | Result(dB μ V/m) | G _{PL} (dB) | G _A (dB/m) | P _{Mea} (dB μ V) | Polarity |
|----------------|----------------------|----------------------|-----------------------|-------------------------------|----------|
| 1493.000 | 49.1 | -40.3 | 24.1 | 65.300 | H |
| 1493.567 | 48.3 | -40.3 | 24.1 | 64.500 | V |
| 7963.200 | 47.4 | -27.8 | 37.5 | 37.700 | V |
| 9696.633 | 47.2 | -24.5 | 38.0 | 33.700 | H |
| 9716.467 | 47.1 | -24.5 | 38.0 | 33.600 | H |
| 7963.767 | 46.9 | -27.8 | 37.5 | 37.200 | V |

Measurement results for Set.6:
Charging Mode/Average detector

| Frequency(MHz) | Result(dB μ V/m) | G _{PL} (dB) | G _A (dB/m) | P _{Mea} (dB μ V) | Polarity |
|----------------|----------------------|----------------------|-----------------------|-------------------------------|----------|
| 17970.533 | 43.6 | -17.7 | 45.6 | 15.700 | V |
| 17982.433 | 43.5 | -17.7 | 45.6 | 15.600 | H |
| 17993.200 | 43.5 | -17.7 | 45.6 | 15.600 | H |
| 17989.233 | 43.4 | -17.7 | 45.6 | 15.500 | V |
| 17990.933 | 43.4 | -17.7 | 45.6 | 15.500 | H |
| 17990.367 | 43.3 | -17.7 | 45.6 | 15.400 | H |

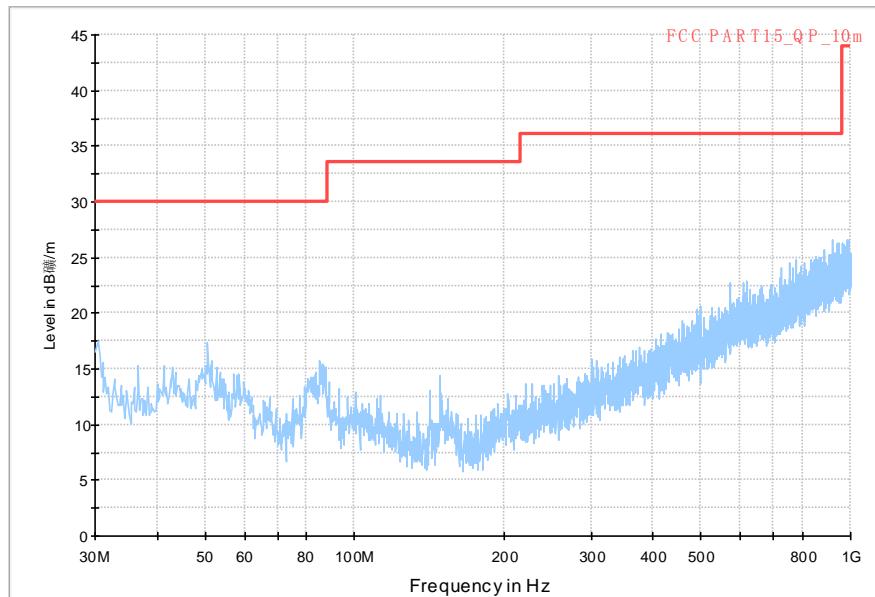
Charging Mode/Peak detector

| Frequency(MHz) | Result(dB μ V/m) | G _{PL} (dB) | G _A (dB/m) | P _{Mea} (dB μ V) | Polarity |
|----------------|----------------------|----------------------|-----------------------|-------------------------------|----------|
| 17938.233 | 55.1 | -17.7 | 45.6 | 27.200 | V |
| 17988.100 | 53.9 | -17.7 | 45.6 | 26.000 | H |
| 17994.900 | 53.9 | -17.7 | 45.6 | 26.000 | V |
| 17997.733 | 53.9 | -17.7 | 45.6 | 26.000 | H |
| 17896.867 | 53.8 | -18.5 | 45.6 | 26.700 | V |
| 17947.300 | 53.7 | -17.7 | 45.6 | 25.800 | H |

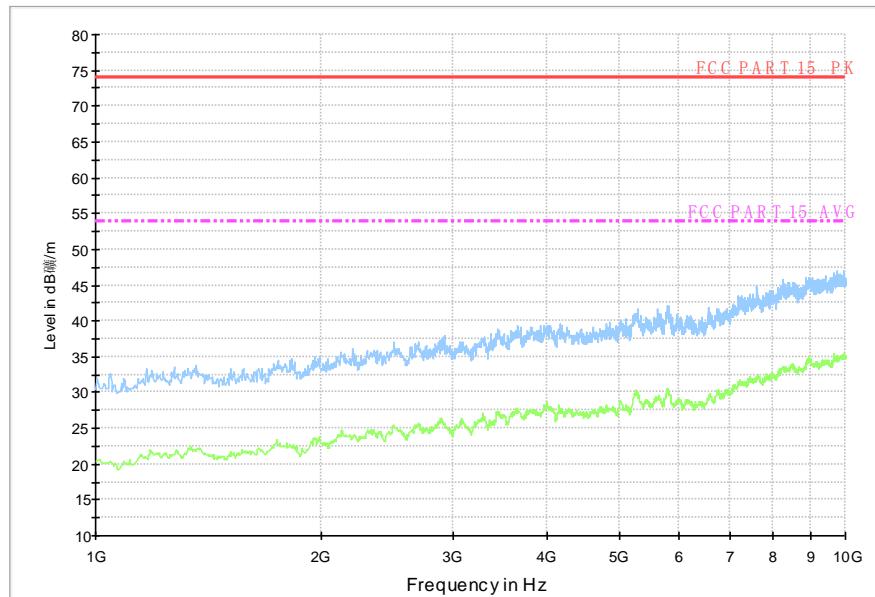
Note: The measurement results of Set.1 and Set.6 showed here are worst cases of the combinations of different batteries. The measurement results of Set.5 showed here are worst cases of the combinations of different batteries and USB cables.

Charging Mode, Set.1

Normal RE_30M-1GHz_10m

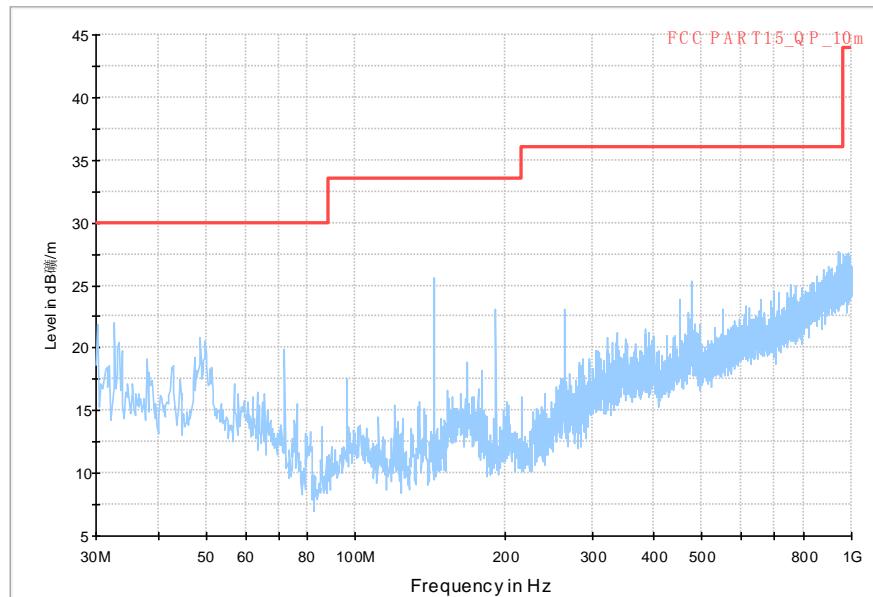
**Fig.1 Radiated Emission from 30MHz to 1GHz**

Normal RE_1G-18GHz_directly

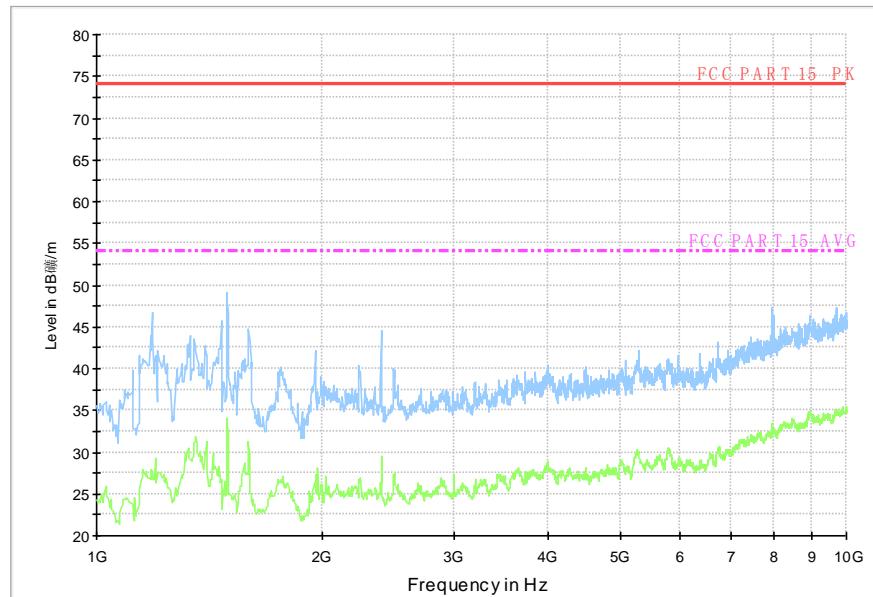
**Fig.2 Radiated Emission from 1GHz to 10GHz**

USB Mode, Set.5

Normal RE_30M-1GHz_10m

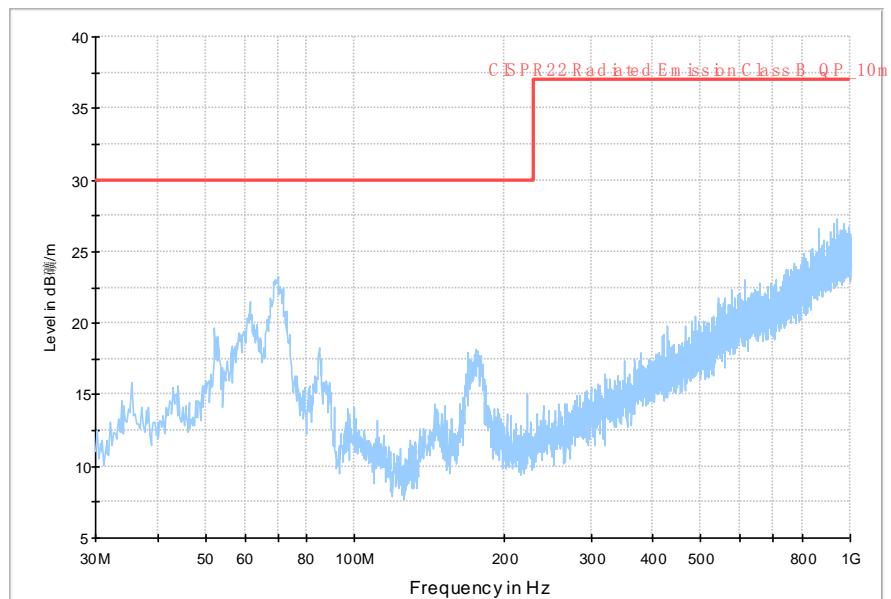
**Fig.3 Radiated Emission from 30MHz to 1GHz**

Normal RE_1G-18GHz_directly

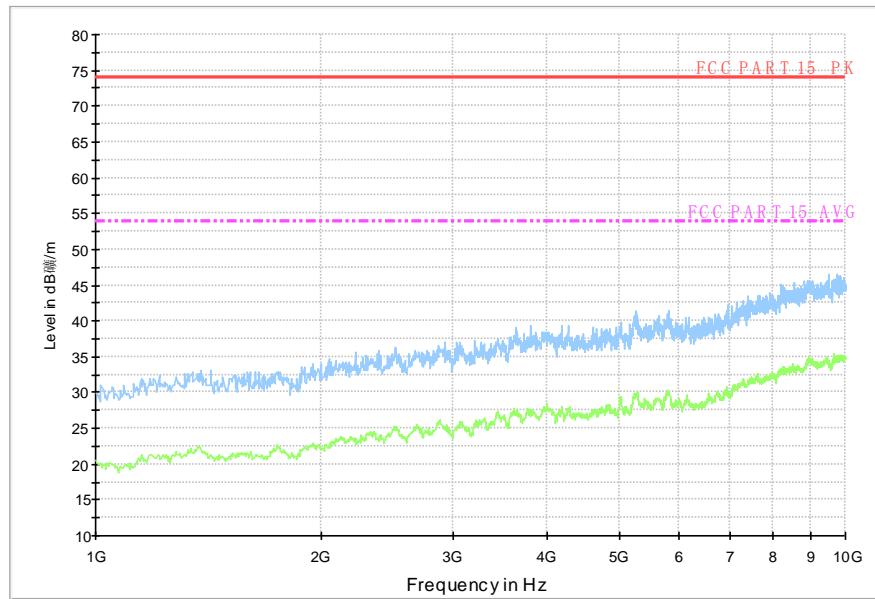
**Fig.4 Radiated Emission from 1GHz to 10GHz**

Charging Mode, Set.6

Normal RE_30M-1GHz_10m

**Fig.5 Radiated Emission from 30MHz to 1GHz**

RE_1G-10GHz

**Fig.6 Radiated Emission from 1GHz to 10GHz**

A.2 Conducted Emission (§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 7.2.

A.2.2 EUT Operating Mode

The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode. The model of the PC is DELL OPTIPLEX 380, and the serial number of the PC is 2X1YV2X. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

A.2.3 Measurement Limit

| Frequency of emission (MHz) | Conducted limit (dB μ V) | |
|-----------------------------|------------------------------|-----------|
| | 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: $U = 2.9 \text{ dB}$, $k=2$.

Charging Mode, Set.1

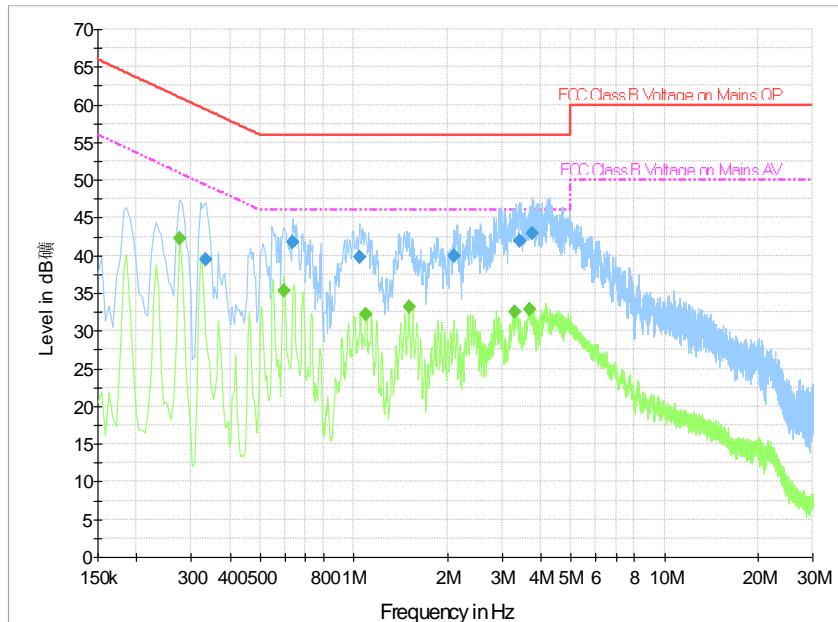


Fig.7 Conducted Emission

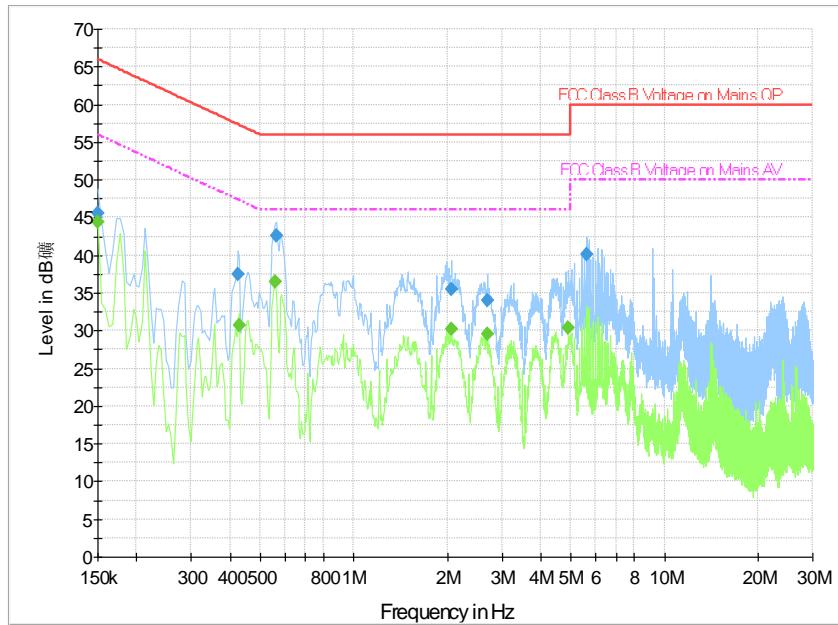
Final Result 1

| Frequency (MHz) | QuasiPeak (dB μ V) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|------------------------|-----|------|------------|-------------|--------------------|
| 0.334500 | 39.4 | GND | N | 19.8 | 19.9 | 59.3 |
| 0.636000 | 41.7 | GND | L1 | 19.8 | 14.3 | 56.0 |
| 1.041000 | 39.7 | GND | L1 | 19.7 | 16.3 | 56.0 |
| 2.103000 | 40.0 | GND | N | 19.6 | 16.0 | 56.0 |
| 3.421500 | 42.0 | GND | L1 | 19.7 | 14.0 | 56.0 |
| 3.745500 | 42.8 | GND | N | 19.7 | 13.2 | 56.0 |

Final Result 2

| Frequency (MHz) | CAverage (dB μ V) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|-----------------------|-----|------|------------|-------------|--------------------|
| 0.276000 | 42.3 | GND | L1 | 19.8 | 8.6 | 50.9 |
| 0.595500 | 35.3 | GND | L1 | 19.8 | 10.7 | 46.0 |
| 1.095000 | 32.1 | GND | N | 19.7 | 13.9 | 46.0 |
| 1.504500 | 33.3 | GND | N | 19.6 | 12.7 | 46.0 |
| 3.286500 | 32.5 | GND | N | 19.6 | 13.5 | 46.0 |
| 3.687000 | 32.9 | GND | N | 19.7 | 13.1 | 46.0 |

Note: The measurement results showed here are worst cases of the combinations of different batteries.

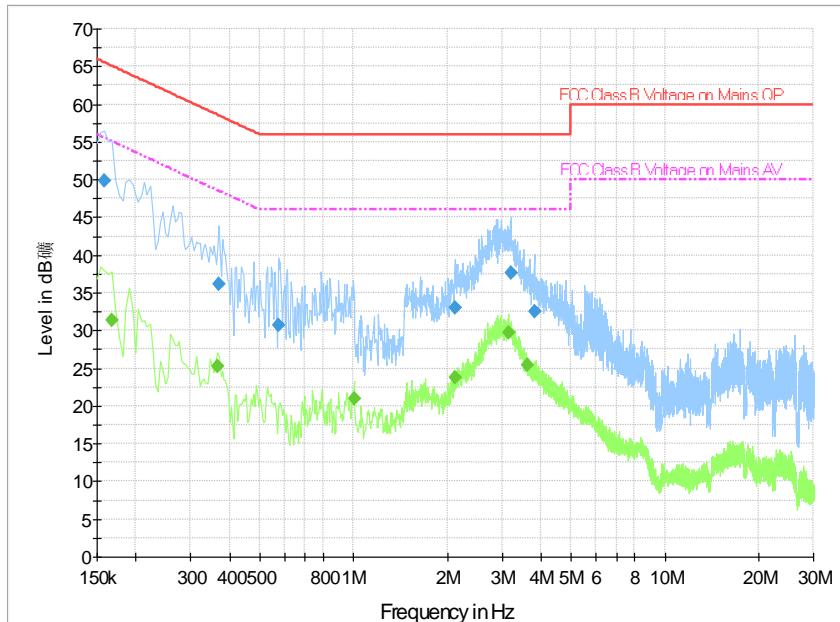
USB Mode, Set.5

Fig.8 Conducted Emission
Final Result 1

| Frequency (MHz) | QuasiPeak (dB μ V) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|------------------------|-----|------|------------|-------------|--------------------|
| 0.150000 | 45.6 | GND | N | 20.1 | 20.4 | 66.0 |
| 0.424500 | 37.5 | GND | L1 | 19.8 | 19.9 | 57.4 |
| 0.564000 | 42.5 | GND | N | 19.8 | 13.5 | 56.0 |
| 2.062500 | 35.5 | GND | N | 19.6 | 20.5 | 56.0 |
| 2.701500 | 34.0 | GND | L1 | 19.6 | 22.0 | 56.0 |
| 5.604000 | 40.1 | GND | L1 | 19.7 | 19.9 | 60.0 |

Final Result 2

| Frequency (MHz) | CAverage (dB μ V) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|-----------------------|-----|------|------------|-------------|--------------------|
| 0.150000 | 44.5 | GND | N | 20.1 | 11.5 | 56.0 |
| 0.429000 | 30.8 | GND | N | 19.8 | 16.5 | 47.3 |
| 0.559500 | 36.4 | GND | N | 19.8 | 9.6 | 46.0 |
| 2.062500 | 30.3 | GND | L1 | 19.6 | 15.7 | 46.0 |
| 2.701500 | 29.6 | GND | N | 19.6 | 16.4 | 46.0 |
| 4.915500 | 30.4 | GND | N | 19.7 | 15.6 | 46.0 |

Note: The measurement results showed here are worst cases of the combinations of different batteries and USB cables.

Charging Mode, Set.6

Fig.1 Conducted Emission
Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 0.159000 | 49.9 | GND | L1 | 19.7 | 15.6 | 65.5 |
| 0.370500 | 36.1 | GND | N | 19.8 | 22.4 | 58.5 |
| 0.573000 | 30.7 | GND | N | 19.8 | 25.3 | 56.0 |
| 2.112000 | 33.0 | GND | N | 19.6 | 23.0 | 56.0 |
| 3.196500 | 37.6 | GND | N | 19.7 | 18.4 | 56.0 |
| 3.808500 | 32.6 | GND | N | 19.7 | 23.4 | 56.0 |

Final Result 2

| Frequency (MHz) | CAverage (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-----------------|-----|------|------------|-------------|--------------|
| 0.168000 | 31.3 | GND | L1 | 19.7 | 23.7 | 55.1 |
| 0.366000 | 25.2 | GND | L1 | 19.8 | 23.4 | 48.6 |
| 1.005000 | 21.0 | GND | N | 19.7 | 25.0 | 46.0 |
| 2.121000 | 23.8 | GND | N | 19.6 | 22.2 | 46.0 |
| 3.138000 | 29.7 | GND | N | 19.6 | 16.3 | 46.0 |
| 3.628500 | 25.4 | GND | N | 19.7 | 20.6 | 46.0 |

Note: The measurement results showed here are worst cases of the combinations of different batteries.

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