





TEST REPORT

No. I19Z61344-EMC01

for

OnePlus Technology (Shenzhen) Co., Ltd.

Smart Phone

Model Name: HD1925

FCC ID: 2ABZ2-EE143

with

Hardware Version: 46

Software Version: Oxygen OS 10.0.HD61CB

Issued Date: 2019-10-15

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

| Report Number | Revision | Description | Issue Date |
|-----------------|----------|-------------------------|------------|
| I19Z61344-EMC01 | Rev.0 | 1 st edition | 2019-10-15 |
| | | | |

Note: the latest revision of the test report supersedes all previous versions.





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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2005 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP website.

2. Test Laboratory

2.1. Testing Location

CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,

P. R. China100191

2.2. <u>Testing Environment</u>

Normal Temperature: $15-35^{\circ}$ C Relative Humidity: 20-75%

2.3. Project data

Testing Start Date: 2019-09-12
Testing End Date: 2019-10-15

2.4. Signature

Wang Junqing

王俊

(Prepared this test report)

张

颖

Zhang Ying

(Reviewed this test report)

Liu Baodian

Deputy Director of the laboratory

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3. Client Information

3.1. Applicant Information

Company Name: OnePlus Technology (Shenzhen) Co., Ltd.

Address: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe

Avenue North, Futian District, Shenzhen

City: Shenzhen

Postal Code: /

Country: China

Contact Person Ariel Cheng

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Telephone: 13823398081

Fax: /

3.2. Manufacturer Information

Company Name: OnePlus Technology (Shenzhen) Co., Ltd.

Address: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe

Avenue North, Futian District, Shenzhen

City: Shenzhen

Postal Code: /

Country: China

Contact Person Ariel Cheng

Contact Email ariel.cheng@oneplus.com

Telephone: 13823398081

Fax: /





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

4.1. About EUT

Description Smart Phone
Model Name HD1925
FCC ID 2ABZ2-EE143

Extreme vol. Limits 3.6VDC to 4.3VDC (nominal: 3.87VDC)

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

4.2. Internal Identification of EUT used during the test

| EUT ID* | SN or IMEI | HW Version | SW Version |
|---------|-----------------|-------------------|-----------------------|
| EUT1 | 990013820050255 | 46 | Oxvgen OS 10.0.HD61CB |

^{*}EUT ID: is used to identify the test sample in the lab internally.

4.3. Internal Identification of AE used during the test

| AE ID* | Description | SN | Remarks |
|--------|-------------|----|-----------|
| AE1 | Battery | / | Inbuilt |
| AE2 | Charger | / | CH007/008 |
| AE3 | USB Cable | / | / |
| AE4 | Charger | / | CH019/021 |
| | | | |

AE1

Model BLP745

Manufacturer Sunwoda Electronic Co.,Ltd.

Capacitance 4010mAh Nominal voltage 3.87V

AE2

Model WC0506A5HK

Manufacturer SHENZHEN HUNTKEY ELECTRIC CO.,LTD.

Length of cable /

AE3

Model /
Manufacturer /
Length of cable /

AE4

Model WC0506A52GB

Manufacturer LITE-ON TECHNOLOGY CORP.

Length of cable /

Note: The USB cables are shielded.

^{*}AE ID: is used to identify the test sample in the lab internally.





4.4. EUT set-ups

| EUT set-up No. | Combination of EUT and AE | Remarks |
|----------------|---------------------------|---------|
| Set.1 | EUT1+ AE1+ AE2 + AE3 | Charger |
| Set.2 | EUT1+ AE1+ AE3 | USB |
| Set.3 | EUT1+ AE1+ AE3 + AE4 | Charger |





5. Reference Documents

5.1. 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 | 2016 |
| ANSI C63.4 | American National Standard for | 2014 |
| | Methods of Measurement of Radio- | |
| | Noise Emissions from Low-Voltage | |
| | Electrical and Electronic Equipment | |
| | in the Range of 9 kHz to 40 GHz | |

Note: The test methods have no deviation with standards.





6. LABORATORY ENVIRONMENT

Semi-anechoic chamber SAC-1 (23 meters \times 17meters \times 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 |

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; |
| | 1MHz-1000MHz, >90dB. |
| Electrical insulation | > 2 MΩ |
| Ground system resistance | < 4 Ω |





7. SUMMARY OF TEST RESULTS

| Abbreviations used in this clause: | | |
|------------------------------------|----|----------------|
| | Р | Pass |
| Verdict Column | NA | Not applicable |
| | F | Fail |

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





8. Test Equipments Utilized

| NO. | Description | TYPE | SERIES NUMBER | MANUFACTURE | CAL DUE DATE | CALIBRATI ON INTERVAL |
|-----|--|-----------|------------------|--------------|-----------------|-----------------------------|
| 1 | Test Receiver | ESU26 | 100235 | R&S | 2020-03-01 | 1 Year |
| 2 | Test Receiver | ESCI3 | 100344 | R&S | 2020-02-14 | 1 Year |
| 3 | Universal Radio Communication Tester | CMW500 | 150344 | R&S | 2019-12-27 | 1 year |
| 4 | Universal Radio Communication Tester | CMW500 | 116588 | R&S | 2019-12-26 | 1 year |
| 5 | LISN | ENV216 | 101200 | R&S | 2020-03-14 | 1 year |
| 6 | EMI Antenna | VULB 9163 | 9163-1222 | Schwarzbeck | 2020-03-14 | 1 year |
| 7 | EMI Antenna | 3115 | 6914 | ETS-Lindgren | 2020-01-03 | 1 year |
| 8 | PC | M4000E-17 | M706GWXD | LENOVO | N/A | N/A |
| 9 | Printer | P1606dn | VNC3L52122 | HP | N/A | N/A |





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 (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 M4000E-17, and the serial number of the PC is M706GWXD. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

Note: I/O information: Printer – USB, Mouse – PS/2, Keyboard – USB.

A.1.3 Measurement Limit

| Frequency range | Field strength limit (μV/m) | | | |
|-----------------|-----------------------------|--------------------|------|--|
| (MHz) | Quasi-peak | Quasi-peak Average | | |
| 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:

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

Where

G_A: Antenna factor of receive antenna

G_{PL}: Path Loss

 P_{Mea} : Measurement result on receiver.

Measurement uncertainty (worst case): U = 5.44 dB, k=2.

Measurement results for Set.1:

Charging Mode/Average detector

| Fraguency | Measurement | Cable | Antenna | Receiver | Antenna |
|-----------|-------------|-------|---------|----------|---------|
| Frequency | Result | loss | Factor | Reading | Pol. |
| (MHz) | (dBμV/m) | (dB) | (dB/m) | (dBμV) | (H/V) |
| 17826.033 | 45.7 | -25.7 | 43.4 | 28.0 | Н |
| 17948.433 | 45.6 | -25.5 | 43.4 | 27.7 | Н |
| 17945.033 | 45.5 | -25.5 | 43.4 | 27.6 | V |
| 17960.333 | 45.5 | -25.5 | 43.4 | 27.6 | Н |
| 17953.533 | 45.5 | -25.5 | 43.4 | 27.6 | Н |
| 17950.133 | 45.4 | -25.5 | 43.4 | 27.5 | Н |

Charging Mode/Peak detector

| Fraguency | Measurement | Cable | Antenna | Receiver | Antenna |
|--------------------|-------------|-------|---------|----------|---------|
| Frequency (MHz) | Result | loss | Factor | Reading | Pol. |
| (IVITIZ) | (dBμV/m) | (dB) | (dB/m) | (dBμV) | (H/V) |
| 17820.933 | 57.7 | -25.7 | 43.4 | 40.0 | Н |
| 17478.667 | 57.0 | -25.9 | 40.1 | 42.8 | Н |
| 17977.900 | 56.8 | -25.5 | 43.4 | 38.9 | V |
| 17961.467 | 56.7 | -25.5 | 43.4 | 38.8 | Н |
| 17611.267 | 56.7 | -26.9 | 43.4 | 40.2 | Н |
| 17910.467 | 56.7 | -25.7 | 43.4 | 39.0 | Н |





Measurement results for Set.2:

USB Mode/Average detector

| Fraguency | Measurement | Cable | Antenna | Receiver | Antenna |
|-----------|-------------|-------|---------|----------|---------|
| Frequency | Result | loss | Factor | Reading | Pol. |
| (MHz) | (dBµV/m) | (dB) | (dB/m) | (dBµV) | (H/V) |
| 17946.167 | 46.1 | -25.5 | 43.4 | 28.2 | Н |
| 17828.300 | 45.9 | -25.7 | 43.4 | 28.2 | Н |
| 17942.767 | 45.8 | -25.5 | 43.4 | 27.9 | V |
| 17950.700 | 45.7 | -25.5 | 43.4 | 27.8 | Н |
| 17949.567 | 45.7 | -25.5 | 43.4 | 27.8 | Н |
| 17822.067 | 45.7 | -25.7 | 43.4 | 28.0 | Н |

USB Mode/ Peak detector

| Fraguency | Measurement | Cable | Antenna | Receiver | Antenna |
|-----------|-------------|-------|---------|----------|---------|
| Frequency | Result | loss | Factor | Reading | Pol. |
| (MHz) | (dBµV/m) | (dB) | (dB/m) | (dBμV) | (H/V) |
| 17942.200 | 58.5 | -25.5 | 43.4 | 40.6 | Н |
| 17718.367 | 57.1 | -26.9 | 43.4 | 40.6 | Н |
| 17409.533 | 56.8 | -25.9 | 40.1 | 42.6 | V |
| 17699.667 | 56.7 | -26.9 | 43.4 | 40.2 | Н |
| 17962.600 | 56.6 | -25.5 | 43.4 | 38.7 | Н |
| 17589.167 | 56.6 | -26.9 | 43.4 | 40.1 | Н |





Measurement results for Set.3: Charging Mode/Average detector

| Fraguency | Measurement | Cable | Antenna | Receiver | Antenna |
|-----------|-------------|-------|---------|----------|---------|
| Frequency | Result | loss | Factor | Reading | Pol. |
| (MHz) | (dBµV/m) | (dB) | (dB/m) | (dBµV) | (H/V) |
| 17823.200 | 46.3 | -25.7 | 43.4 | 28.6 | Н |
| 17952.400 | 46.3 | -25.5 | 43.4 | 28.4 | Н |
| 17942.200 | 46.3 | -25.5 | 43.4 | 28.4 | V |
| 17962.600 | 46.2 | -25.5 | 43.4 | 28.3 | Н |
| 17963.167 | 46.2 | -25.5 | 43.4 | 28.3 | Н |
| 17946.733 | 46.0 | -25.5 | 43.4 | 28.1 | Н |

Charging Mode/Peak detector

| Fraguency | Measurement | Cable | Antenna | Receiver | Antenna |
|--------------------|-------------|-------|---------|----------|---------|
| Frequency (MHz) | Result | loss | Factor | Reading | Pol. |
| (IVITIZ) | (dBµV/m) | (dB) | (dB/m) | (dBµV) | (H/V) |
| 17612.400 | 58.0 | -26.9 | 43.4 | 41.5 | Н |
| 17717.233 | 57.7 | -26.9 | 43.4 | 41.2 | Н |
| 17939.367 | 57.5 | -25.5 | 43.4 | 39.6 | V |
| 17950.700 | 57.3 | -25.5 | 43.4 | 39.4 | Н |
| 17732.533 | 57.2 | -26.9 | 43.4 | 40.7 | Н |
| 17710.433 | 57.2 | -26.9 | 43.4 | 40.7 | Н |





Charging Mode, Set.1

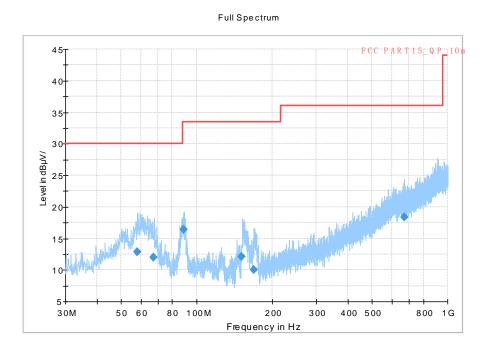


Fig A.1 Radiated Emission from 30MHz to 1GHz

Final_Result

| Frequency | QuasiPeak | Limit | Margin | Meas. | Bandwidth | Height | Pol | Azimuth |
|------------|-----------|----------|--------|--------|-----------|--------|-----|---------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) | Time | (kHz) | (cm) | | (deg) |
| | | | | (ms) | | | | |
| 57.890000 | 12.91 | 30.00 | 17.09 | 1000.0 | 120.000 | 279.0 | V | 243.0 |
| 67.387000 | 11.95 | 30.00 | 18.05 | 1000.0 | 120.000 | 277.0 | ٧ | 300.0 |
| 88.953000 | 16.43 | 33.50 | 17.09 | 1000.0 | 120.000 | 279.0 | V | 240.0 |
| 151.375000 | 12.06 | 33.50 | 21.46 | 1000.0 | 120.000 | 107.0 | ٧ | 23.0 |
| 168.752000 | 10.08 | 33.50 | 23.44 | 1000.0 | 120.000 | 105.0 | ٧ | -30.0 |
| 673.821000 | 18.42 | 36.00 | 17.60 | 1000.0 | 120.000 | 381.0 | ٧ | 30.0 |





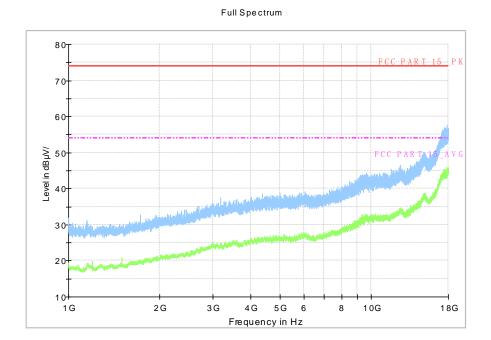


Fig A.2 Radiated Emission from 1GHz to 18GHz





USB Mode, Set.2

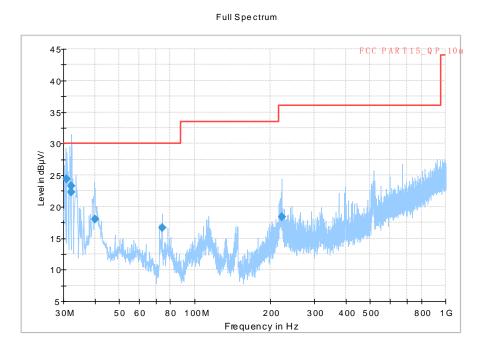


Fig A.3 Radiated Emission from 30MHz to 1GHz

Final_Result

| Frequency | QuasiPeak | Limit | Margin | Meas. | Bandwidth | Height | Pol | Azimuth |
|------------|-----------|----------|--------|--------|-----------|--------|-----|---------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) | Time | (kHz) | (cm) | | (deg) |
| | | | | (ms) | | | | |
| 30.780000 | 24.42 | 30.00 | 5.58 | 1000.0 | 120.000 | 100.0 | V | 30.0 |
| 32.226000 | 23.31 | 30.00 | 6.69 | 1000.0 | 120.000 | 104.0 | ٧ | 61.0 |
| 32.231000 | 22.28 | 30.00 | 7.72 | 1000.0 | 120.000 | 298.0 | V | 60.0 |
| 40.037000 | 17.97 | 30.00 | 12.03 | 1000.0 | 120.000 | 276.0 | V | 23.0 |
| 74.135000 | 16.62 | 30.00 | 13.38 | 1000.0 | 120.000 | 209.0 | V | 284.0 |
| 222.674000 | 18.36 | 36.00 | 17.66 | 1000.0 | 120.000 | 125.0 | ٧ | 180.0 |





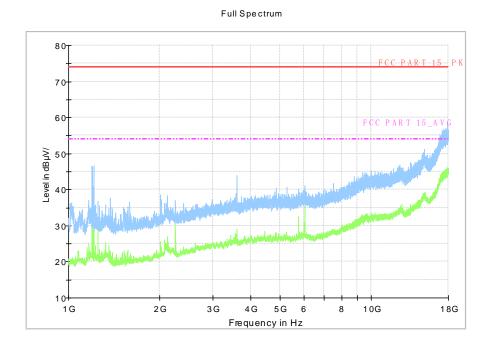


Fig A.4 Radiated Emission from 1GHz to 18GHz





Charging Mode, Set.3

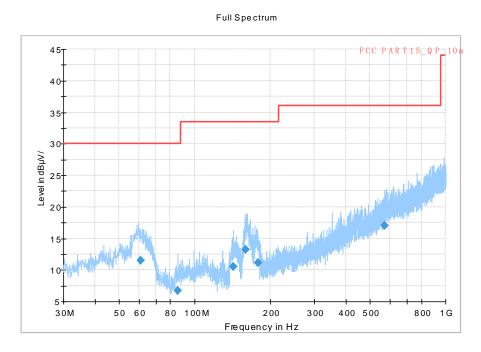


Fig A.5 Radiated Emission from 30MHz to 1GHz

Final_Result

| Frequency | QuasiPeak | Limit | Margin | Meas. | Bandwidth | Height | Pol | Azimuth |
|------------|-----------|----------|--------|--------|-----------|--------|-----|---------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) | Time | (kHz) | (cm) | | (deg) |
| | | | | (ms) | | | | |
| 60.712000 | 11.55 | 30.00 | 18.45 | 1000.0 | 120.000 | 225.0 | V | -27.0 |
| 85.655000 | 6.71 | 30.00 | 23.29 | 1000.0 | 120.000 | 177.0 | ٧ | 120.0 |
| 142.169000 | 10.48 | 33.50 | 23.04 | 1000.0 | 120.000 | 117.0 | V | 17.0 |
| 159.606000 | 13.28 | 33.50 | 20.24 | 1000.0 | 120.000 | 103.0 | ٧ | -4.0 |
| 178.308000 | 11.08 | 33.50 | 22.44 | 1000.0 | 120.000 | 125.0 | ٧ | 60.0 |
| 571.459000 | 17.03 | 36.00 | 18.99 | 1000.0 | 120.000 | 114.0 | V | 30.0 |





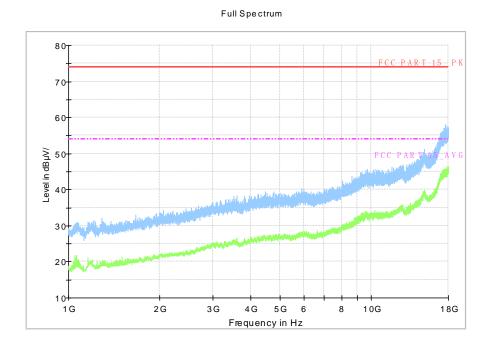


Fig A.6 Radiated Emission from 1GHz to 18GHz





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 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 M4000E-17, and the serial number of the PC is M706GWXD. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

Note: I/O information: Printer – USB, Mouse – PS/2, Keyboard – USB.

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*= 3.38 dB, *k*=2.

Charging Mode, Set.1

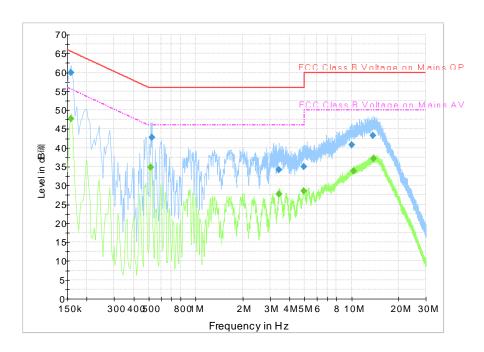


Fig A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

| Frequency | QuasiPeak | Meas. | Bandwidth | Filter | Line | Corr. | Margin | Limit | Comment |
|-----------|-----------|--------|-----------|--------|------|-------|--------|--------|---------|
| (MHz) | (dBuV) | Time | (kHz) | | | (dB) | (dB) | (dBuV) | |
| | | (ms) | | | | | | | |
| 0.159000 | 60.0 | 2000.0 | 9.000 | On | L1 | 28.7 | 5.5 | 65.5 | |
| 0.523500 | 42.8 | 2000.0 | 9.000 | On | N | 19.8 | 13.2 | 56.0 | |
| 3.412500 | 34.2 | 2000.0 | 9.000 | On | N | 19.6 | 21.8 | 56.0 | |
| 4.933500 | 35.0 | 2000.0 | 9.000 | On | L1 | 19.6 | 21.0 | 56.0 | |
| 10.063500 | 40.8 | 2000.0 | 9.000 | On | N | 19.7 | 19.2 | 60.0 | |
| 13.668000 | 43.2 | 2000.0 | 9.000 | On | N | 19.8 | 16.8 | 60.0 | |

Final Result 2

| Frequency | Average | Meas. | Bandwidth | Filter | Line | Corr. | Margin | Limit | Comment |
|-----------|---------|--------|-----------|--------|------|-------|--------|--------|---------|
| (MHz) | (dBuV) | Time | (kHz) | | | (dB) | (dB) | (dBuV) | |
| | | (ms) | | | | | | | |
| 0.159000 | 47.7 | 2000.0 | 9.000 | On | L1 | 28.7 | 7.8 | 55.5 | |
| 0.514500 | 34.9 | 2000.0 | 9.000 | On | L1 | 19.8 | 11.1 | 46.0 | |
| 3.412500 | 27.7 | 2000.0 | 9.000 | On | N | 19.6 | 18.3 | 46.0 | |
| 4.965000 | 28.6 | 2000.0 | 9.000 | On | N | 19.6 | 17.4 | 46.0 | |
| 10.311000 | 33.8 | 2000.0 | 9.000 | On | N | 19.7 | 16.2 | 50.0 | |
| 13.821000 | 37.2 | 2000.0 | 9.000 | On | N | 19.8 | 12.8 | 50.0 | |





USB Mode, Set.2

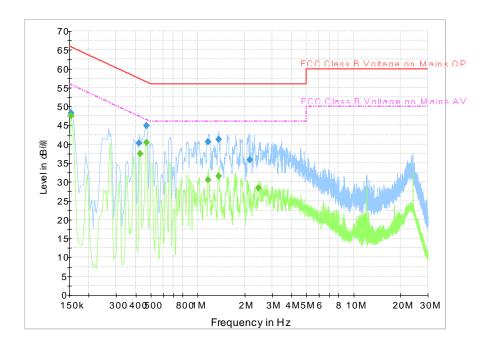


Fig A.8 Radiated Emission from 30MHz to 1GHz

Final Result 1

| Frequency | QuasiPeak | Meas. | Bandwidth | Filter | Line | Corr. | Margin | Limit | Comment |
|-----------|-----------|--------|-----------|--------|------|-------|--------|--------|---------|
| (MHz) | (dBuV) | Time | (kHz) | | | (dB) | (dB) | (dBuV) | |
| | | (ms) | | | | | | | |
| 0.154500 | 48.2 | 2000.0 | 9.000 | On | L1 | 29.7 | 17.6 | 65.8 | |
| 0.420000 | 40.2 | 2000.0 | 9.000 | On | L1 | 19.8 | 17.2 | 57.4 | |
| 0.469500 | 44.9 | 2000.0 | 9.000 | On | N | 19.8 | 11.6 | 56.5 | |
| 1.171500 | 40.6 | 2000.0 | 9.000 | On | L1 | 19.7 | 15.4 | 56.0 | |
| 1.360500 | 41.3 | 2000.0 | 9.000 | On | N | 19.6 | 14.7 | 56.0 | |
| 2.161500 | 35.8 | 2000.0 | 9.000 | On | N | 19.6 | 20.2 | 56.0 | |

Final Result 2

| Frequency | Average | Meas. | Bandwidth | Filter | Line | Corr. | Margin | Limit | Comment |
|-----------|---------|--------|-----------|--------|------|-------|--------|--------|---------|
| (MHz) | (dBuV) | Time | (kHz) | | | (dB) | (dB) | (dBuV) | |
| | | (ms) | | | | | | | |
| 0.154500 | 47.5 | 2000.0 | 9.000 | On | L1 | 29.7 | 8.2 | 55.8 | |
| 0.429000 | 37.4 | 2000.0 | 9.000 | On | L1 | 19.8 | 9.9 | 47.3 | |
| 0.469500 | 40.5 | 2000.0 | 9.000 | On | L1 | 19.8 | 6.0 | 46.5 | |
| 1.167000 | 30.6 | 2000.0 | 9.000 | On | L1 | 19.7 | 15.4 | 46.0 | |
| 1.369500 | 31.6 | 2000.0 | 9.000 | On | L1 | 19.6 | 14.4 | 46.0 | |
| 2.463000 | 28.4 | 2000.0 | 9.000 | On | N | 19.6 | 17.6 | 46.0 | |





Charging Mode, Set.3

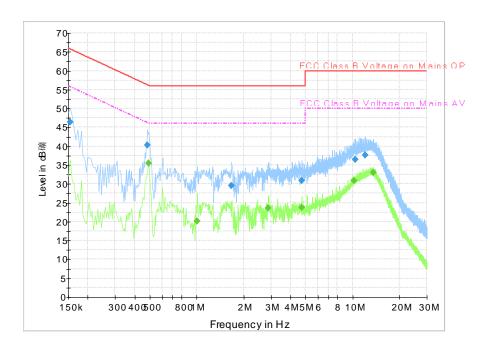


Fig A.9 Radiated Emission from 30MHz to 1GHz

Final Result 1

| Frequency | QuasiPeak | Meas. | Bandwidth | Filter | Line | Corr. | Margin | Limit | Comment |
|-----------|-----------|--------|-----------|--------|------|-------|--------|--------|---------|
| (MHz) | (dBuV) | Time | (kHz) | | | (dB) | (dB) | (dBuV) | |
| | | (ms) | | | | | | | |
| 0.154500 | 46.4 | 2000.0 | 9.000 | On | L1 | 29.7 | 19.4 | 65.8 | |
| 0.483000 | 40.2 | 2000.0 | 9.000 | On | N | 19.8 | 16.0 | 56.3 | |
| 1.675500 | 29.6 | 2000.0 | 9.000 | On | N | 19.6 | 26.4 | 56.0 | |
| 4.713000 | 30.8 | 2000.0 | 9.000 | On | N | 19.6 | 25.2 | 56.0 | |
| 10.378500 | 36.5 | 2000.0 | 9.000 | On | N | 19.7 | 23.5 | 60.0 | |
| 12.057000 | 37.6 | 2000.0 | 9.000 | On | N | 19.8 | 22.4 | 60.0 | |

Final Result 2

| Frequency | Average | Meas. | Bandwidth | Filter | Line | Corr. | Margin | Limit | Comment |
|-----------|---------|--------|-----------|--------|------|-------|--------|--------|---------|
| (MHz) | (dBuV) | Time | (kHz) | | | (dB) | (dB) | (dBuV) | |
| | | (ms) | | | | | | | |
| 0.492000 | 35.5 | 2000.0 | 9.000 | On | N | 19.8 | 10.7 | 46.1 | |
| 1.009500 | 20.1 | 2000.0 | 9.000 | On | L1 | 19.7 | 25.9 | 46.0 | |
| 2.881500 | 23.5 | 2000.0 | 9.000 | On | N | 19.6 | 22.5 | 46.0 | |
| 4.717500 | 23.8 | 2000.0 | 9.000 | On | N | 19.6 | 22.2 | 46.0 | |
| 10.189500 | 30.9 | 2000.0 | 9.000 | On | N | 19.7 | 19.1 | 50.0 | |
| 13.591500 | 33.0 | 2000.0 | 9.000 | On | N | 19.8 | 17.0 | 50.0 | |





ANNEX B: PERSONS INVOLVED IN THIS TESTING

| Test Item | Test Software and Version | Software Vendor | Test operator |
|--------------------|---------------------------|-----------------|---------------|
| Conducted Emission | EMC32 V8.5.2 | R&S | Shi Suolan |
| Radiated Emission | EMC32 V9.01.00 | R&S | Yan Hanchen |
| | | | Li Pengfei |

END OF REPORT