



# TEST REPORT

## No. I20Z61602-EMC01

for

**Wingtech Group (Hong Kong) Limited**

**4G Mobile Broadband Router**

**Model Name: TMOHS1**

**FCC ID: 2APXW-TMOHS1**

with

**Hardware Version: 89527\_1\_11**

**Software Version: TMOHS1\_0.01.15**

**Issued Date: 2020-11-09**

**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.

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.

**Test Laboratory:**

**CTTL-Telecommunication Technology Labs, CAICT**

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

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: [ctl\\_terminals@caict.ac.cn](mailto:ctl_terminals@caict.ac.cn), website: [www.caict.ac.cn](http://www.caict.ac.cn)

## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I20Z61602-EMC01	Rev.0	1 <sup>st</sup> edition	2020-11-03
I20Z61602-EMC01	Rev.1	Add USB mode measurement results	2020-11-09

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.

### **1.2. Testing Location**

#### **CTTL (BDA)**

Address: No.18A, Kangding Street, Beijing Economic-Technology Development Area, Beijing, P. R. China 100176

### **1.3. Testing Environment**

Normal Temperature: 15-35°C  
Relative Humidity: 20-75%

### **1.4. Project data**

Testing Start Date: 2020-10-10  
Testing End Date: 2020-11-08

### **1.5. Signature**



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Li Yan

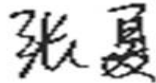
**(Prepared this test report)**



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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: Wingtech Group (Hong Kong) Limited  
Address: Flat/RM 1903, 19/F, Podium Plaza 5 Hanoi Road, Tsim Sha Tsui  
Kowloon, Hong Kong  
Contact: /  
Email: /  
Telephone: /

### **2.2. Manufacturer Information**

Company Name: Wingtech Group (Hong Kong) Limited  
Address: Flat/RM 1903, 19/F, Podium Plaza 5 Hanoi Road, Tsim Sha Tsui  
Kowloon, Hong Kong  
Contact: /  
Email: /  
Telephone: /

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

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

Description	4G Mobile Broadband Router
Model Name	TMOHS1
FCC ID	2APXW-TMOHS1
Extreme vol. Limits	3.4VDC to 4.4VDC (nominal: 3.85VDC)

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.

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

<b>EUT ID*</b>	<b>SN or IMEI</b>	<b>HW Version</b>	<b>SW Version</b>
EUT1	862448013594294	89527_1_11	TMOHS1_0.01.15

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

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

<b>AE ID*</b>	<b>Description</b>	<b>SN</b>	<b>Remarks</b>
AE1	Battery	/	/
AE2	charger	/	/
AE3	USB cable	/	/

AE1

Type	MF01
Manufacturer	Jiade Energy Technology (Zhuhai) Co.,Ltd
Capacity	/
Nominal Voltage	/

AE2

Model	PA-US5V2A-036
Manufacturer	Huizhou puan electronics co., ltd
Length of cable	/

AE3

Type	USB TYPE A to C 2.0 Cable (1.0m)
Manufacturer	Huizhou Washin Electronics Co.,Ltd
Length of cable	/

Note: The USB cables are shielded.

#### **3.4. General Description**

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: LTE Band 5, LTE Band 12, LTE Band 26, and LTE Band 71.



### 3.5. EUT set-ups

<b>EUT set-up No.</b>	<b>Combination of EUT and AE</b>	<b>Remarks</b>
Set.1	EUT1+ AE1 + AE2+ AE3	Charger+ RX mode
Set.2	EUT1+ AE1 + AE3	USB mode (Data link with PC)

## **4. Reference Documents**

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

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

<b>Reference</b>	<b>Title</b>	<b>Version</b>
FCC Part 15, Subpart B	Radio frequency devices - Unintentional Radiators	2019
ANSI C63.4	American National Standard for Methods of Measurement of Radio- Noise Emissions from Low-Voltage Electrical and Electronic Equipment 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×17 meters×10 meters) 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	< 4Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3m/10m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio ( $S_{VSWR}$ )	Between 0 and 6 dB, from 1GHz to 18GHz

**Semi-anechoic chamber SAC-2** (10 meters×6.7meters×6.1meters) 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, 3m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio ( $S_{VSWR}$ )	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 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

## 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(BDA)
2	Conducted Emission	15.107(a)	A.2	P	CTTL(BDA)

## 7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESU26	100376	R&S	2021-09-04	1 year
2	Test Receiver	ESCI	100766	R&S	2021-03-10	1 year
3	LISN	ENV216	101459	R&S	2021-03-17	1 year
4	BiLog Antenna	VULB9163	9163-514	Schwarzbeck	2021-02-24	1 year
5	EMI Antenna	3117	0005888	ETS-Lindgren	2021-04-08	1 year
6	Universal Radio Communication Tester	CMW500	159408	R&S	2021-03-04	1 year
7	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
8	Keyboard	KU-1601	2048361	Lenovo	N/A	N/A
9	Mouse	EMS-537A	8021S3MC	Lenovo	N/A	N/A
10	PC	M4000e-17	M706RMW2	Lenovo	N/A	N/A

Test Item	Test Software and Version	Software Vendor
Radiated Continuous Emission	EMC32 V9.01.00	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 (USB mode of MS and charging mode of MS) at distances of 3 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 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 and USB 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 the 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.

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

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

Frequency range (MHz)	Field strength limit ( $\mu\text{V}/\text{m}$ )		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

#### **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/3MHz	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:

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

Where

$G_A$ : Antenna factor of receive antenna

$G_{\text{PL}}$ : Path Loss

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

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

### Measurement results

#### Charger+ LTE Band12 RX mode /Average detector

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17017.500	40.11	-23.0	41.7	21.45	54.0	13.9	V
17691.500	40.10	-22.2	41.2	21.02	54.0	13.9	V
17705.000	40.10	-22.2	41.2	21.05	54.0	13.9	V
17683.000	40.07	-22.1	41.2	20.97	54.0	13.9	H
17689.000	40.06	-22.2	41.2	20.97	54.0	13.9	V
17015.500	40.05	-23.0	41.7	21.39	54.0	13.9	H

#### Charger+ LTE Band12 RX mode /Peak detector

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17850.500	52.4	-22.5	41.3	33.68	74.0	21.6	H
16823.000	52.4	-23.0	41.6	33.79	74.0	21.6	H
17772.500	52.3	-22.3	41.3	33.37	74.0	21.7	H
17635.000	52.3	-22.0	41.2	33.06	74.0	21.7	H
17776.000	52.2	-22.4	41.3	33.34	74.0	21.8	H
16393.500	52.2	-23.1	41.3	34.03	74.0	21.8	H

**Charger+ LTE Band71 RX mode /Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17698.000	40.18	-22.2	41.2	21.11	54.0	13.8	H
17688.000	40.15	-22.2	41.2	21.06	54.0	13.8	H
17077.000	40.08	-23.0	41.6	21.49	54.0	13.9	H
17011.500	40.07	-23.0	41.7	21.41	54.0	13.9	V
17702.500	40.06	-22.2	41.2	21.00	54.0	13.9	V
17735.500	40.05	-22.3	41.2	21.07	54.0	13.9	H

**Charger+ LTE Band71 RX mode /Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17061.500	52.74	-23.0	41.6	34.14	74.0	21.3	V
17722.000	52.24	-22.2	41.2	33.23	74.0	21.8	V
17261.000	52.23	-22.8	41.4	33.60	74.0	21.8	H
17499.000	52.18	-22.9	41.2	33.88	74.0	21.8	H
16943.000	51.93	-23.0	41.7	33.28	74.0	22.1	H
17007.000	51.91	-23.0	41.7	33.24	74.0	22.1	H

**USB mode + LTE Band5 RX mode /Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17688.000	39.77	-22.2	41.2	20.69	54.0	14.2	H
17112.500	39.74	-23.0	41.6	21.20	54.0	14.3	H
17689.000	39.74	-22.2	41.2	20.65	54.0	14.3	V
17684.500	39.73	-22.1	41.2	20.64	54.0	14.3	V
17702.500	39.71	-22.2	41.2	20.66	54.0	14.3	H
17682.000	39.69	-22.1	41.2	20.59	54.0	14.3	H

**USB mode + LTE Band5 RX mode /Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17902.500	52.7	-22.6	41.3	34.00	74.0	21.3	V
17763.000	52.2	-22.3	41.3	33.32	74.0	21.8	V
16912.000	52.2	-23.0	41.6	33.59	74.0	21.8	V
17075.000	52.2	-23.0	41.6	33.61	74.0	21.8	H
17954.000	52.2	-22.7	41.3	33.63	74.0	21.8	H
17780.000	52.2	-22.4	41.3	33.30	74.0	21.8	H

### Charger+ LTE Band12 RX mode

15B RE 30MHz-1GHz

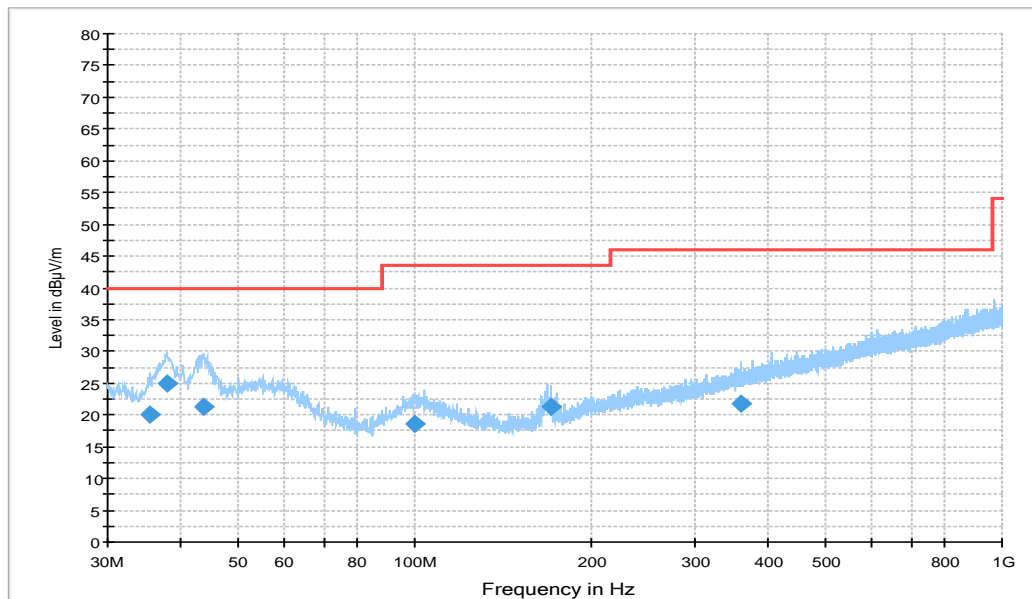


Figure A.1 Radiated Emission from 30MHz to 1GHz

### Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
35.529000	20.0	111.0	V	271.0	-0.9	20.0	40.0
37.857000	25.1	100.0	V	55.0	-0.5	14.9	40.0
43.774000	21.2	100.0	V	48.0	0.0	18.8	40.0
99.743000	18.5	100.0	H	242.0	-0.8	25.0	43.5
170.45600	21.3	110.0	V	-24.0	-3.6	22.2	43.5
359.70300	21.8	125.0	V	45.0	3.1	24.2	46.0

15B RE - 1GHz-3GHz

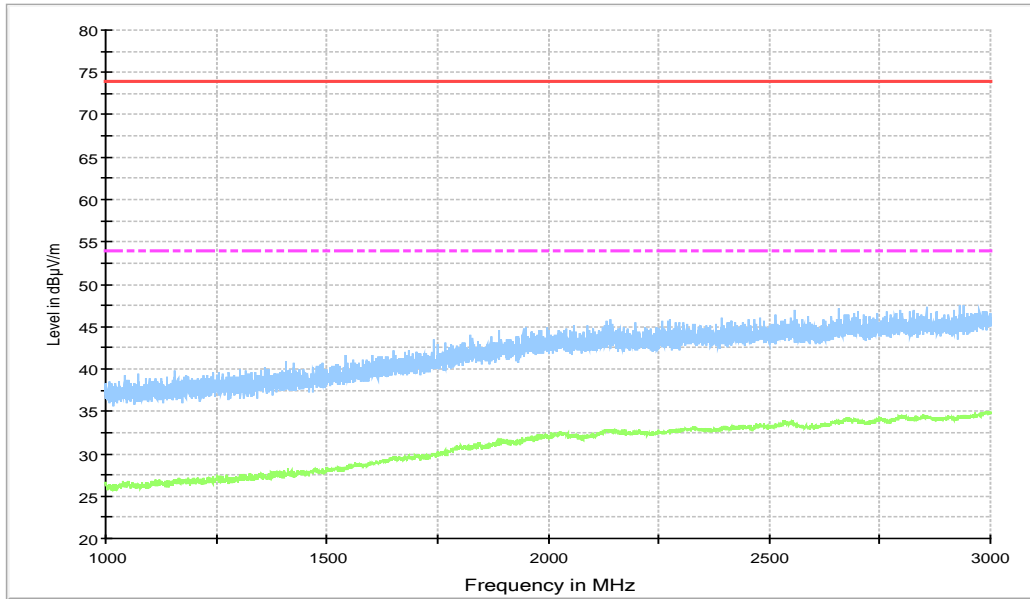


Figure A.2 Radiated Emission from 1GHz to 3GHz

15b RE - 3GHz-18GHz

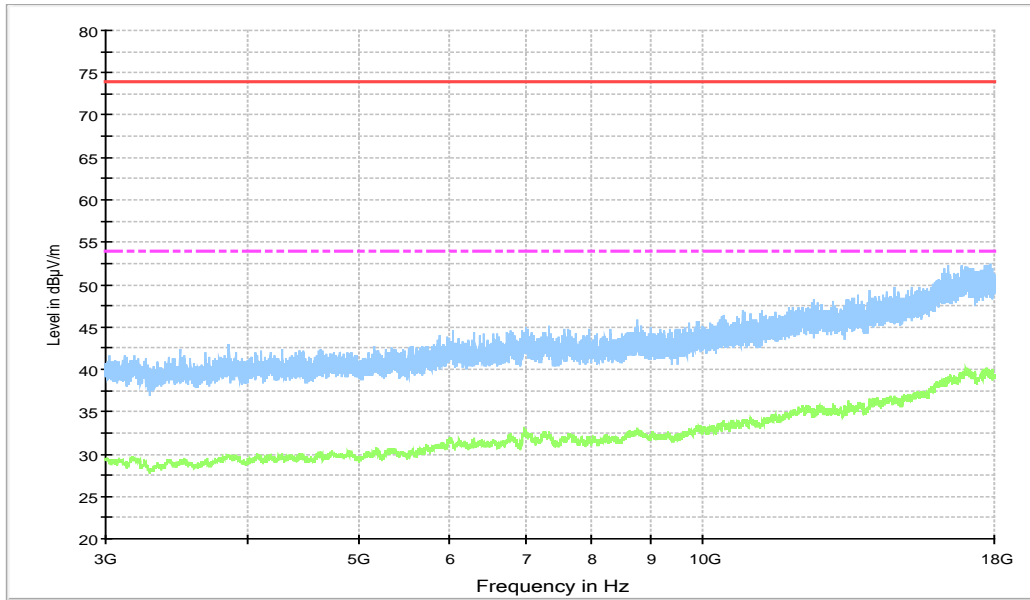


Figure A.3 Radiated Emission from 3GHz to 18GHz



### Charger+ LTE Band71 RX mode

15B RE 30MHz-1GHz

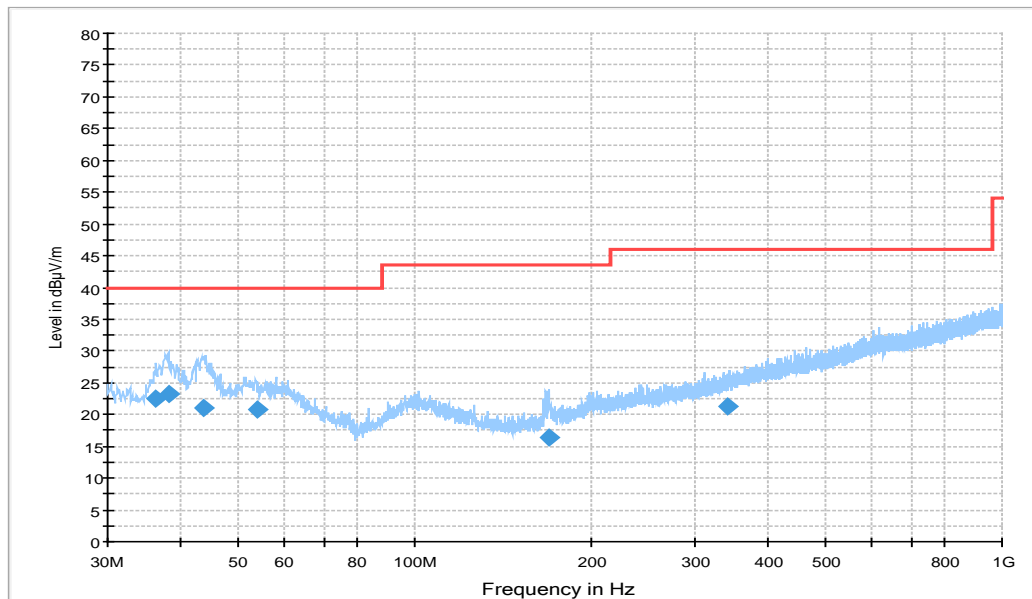
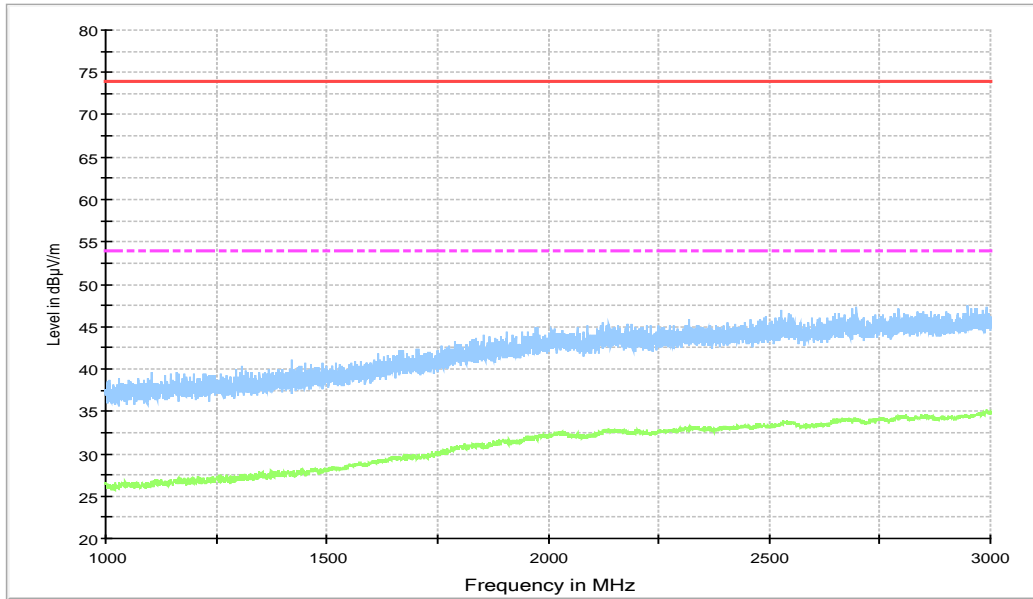


Figure A.4 Radiated Emission from 30MHz to 1GHz

### Final Result 1

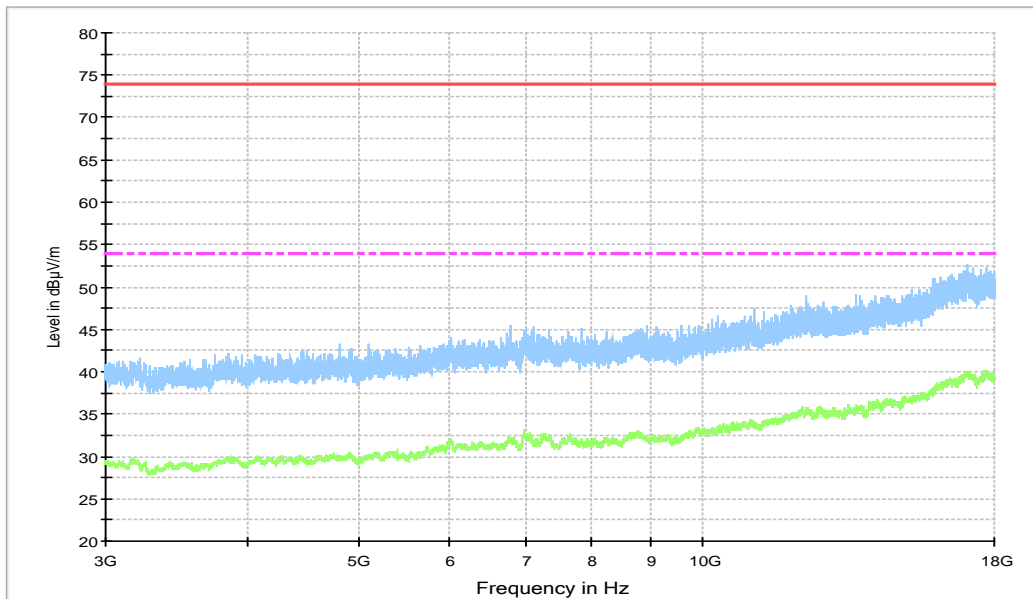
Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
36.305000	22.6	100.0	V	45.0	-0.7	17.4	40.0
38.051000	23.1	100.0	V	270.0	-0.5	16.9	40.0
43.774000	20.9	100.0	V	249.0	0.0	19.1	40.0
54.056000	20.7	100.0	V	188.0	-0.1	19.3	40.0
168.80700	16.3	119.0	V	45.0	-3.7	27.2	43.5
341.46700	21.3	110.0	H	45.0	2.4	24.7	46.0

15B RE - 1GHz-3GHz



**Figure A.5 Radiated Emission from 1GHz to 3GHz**

15b RE - 3GHz-18GHz



**Figure A.6 Radiated Emission from 3GHz to 18GHz**

### USB mode + LTE Band5 RX mode

15B RE 30MHz-1GHz

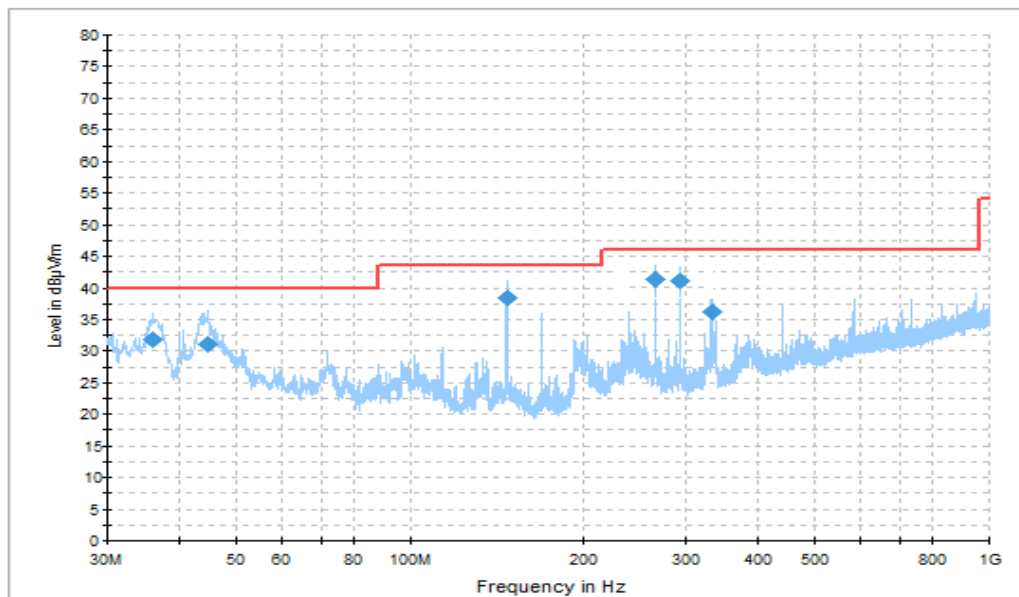


Figure A.7 Radiated Emission from 30MHz to 1GHz

### Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
35.820000	31.9	100.0	V	288.0	-0.8	8.1	40.0
44.647000	31.1	111.0	V	148.0	0.0	8.9	40.0
146.49700	38.4	125.0	H	83.0	-4.6	5.1	43.5
266.48600	41.3	100.0	H	14.0	0.0	4.7	46.0
293.06400	40.8	100.0	H	315.0	0.6	5.2	46.0
333.22200	36.3	100.0	H	94.0	2.2	9.7	46.0

15B RE - 1GHz-3GHz

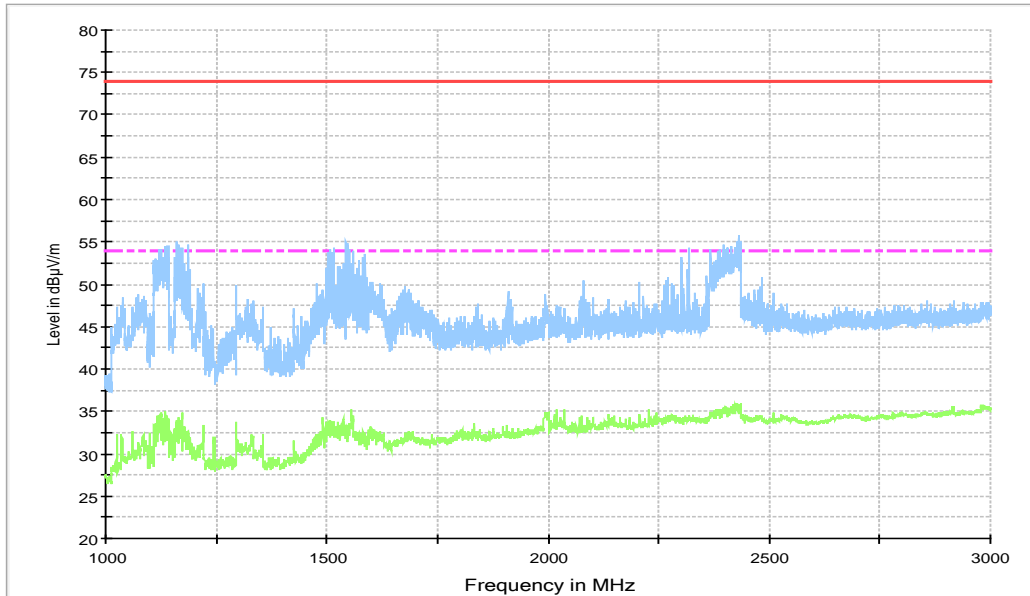


Figure A.8 Radiated Emission from 1GHz to 3GHz

RE - 3GHz-18GHz

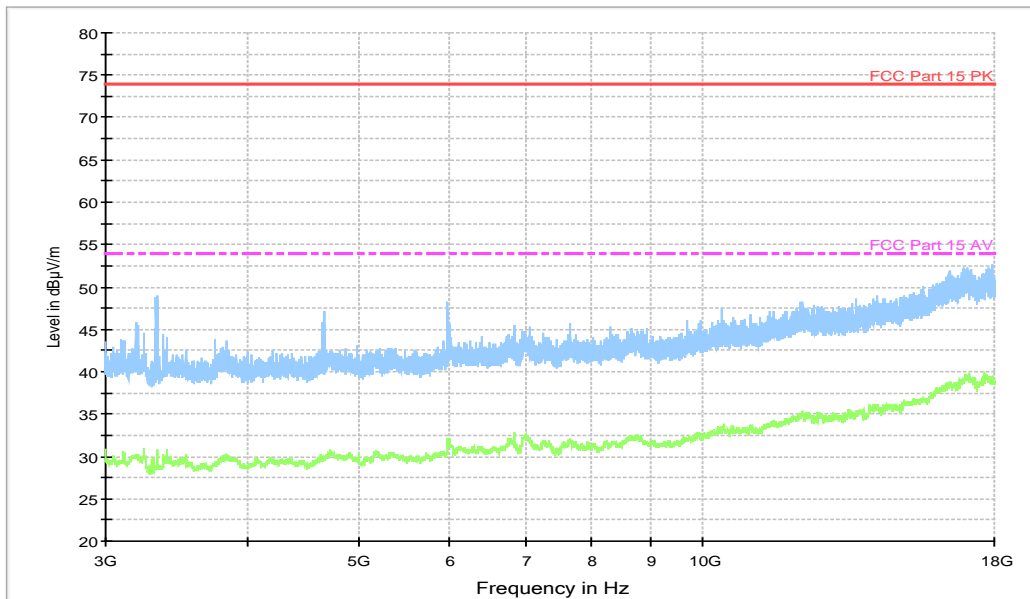


Figure A.9 Radiated Emission from 3GHz to 18GHz

## 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 and USB mode.

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

### A.2.3 Measurement Limit

Frequency of emission (MHz)	Conducted limit (dB $\mu$ 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

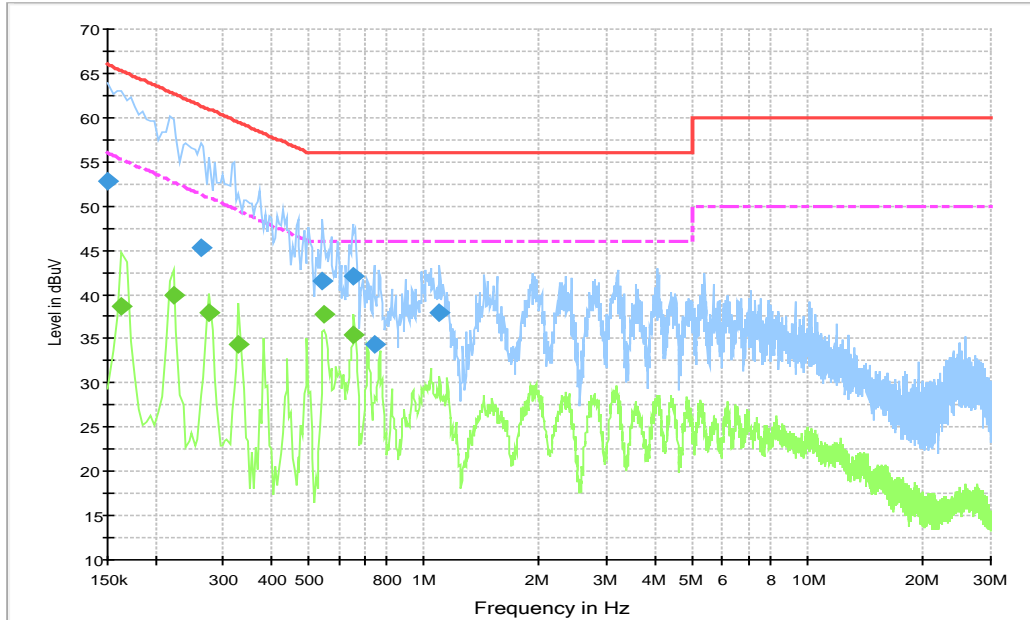
Voltage (V)	Frequency (Hz)
120	60

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

### A.2.5 Measurement Results

Measurement uncertainty:  $U= 3.10$  dB,  $k=2$ .

charging mode



**Figure A.10 Conducted Emission**

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

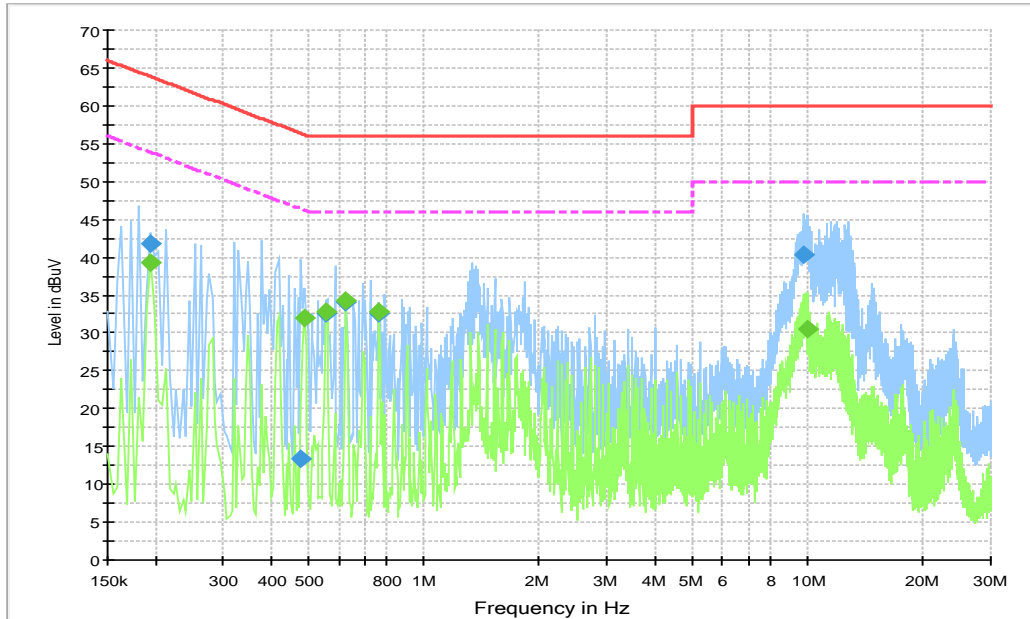
#### Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	52.8	5000.0	9.000	On	L1	19.8	13.2	66.0
0.262500	45.2	5000.0	9.000	On	L1	19.9	16.1	61.4
0.546000	41.5	5000.0	9.000	On	L1	20.0	14.5	56.0
0.654000	42.0	5000.0	9.000	On	L1	19.9	14.0	56.0
0.744000	34.3	5000.0	9.000	On	L1	19.9	21.7	56.0
1.099500	38.0	5000.0	9.000	On	L1	19.8	18.0	56.0

#### Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.163500	38.6	5000.0	9.000	On	L1	20.0	16.6	55.3
0.222000	39.8	5000.0	9.000	On	L1	19.9	12.9	52.7
0.276000	37.9	5000.0	9.000	On	L1	19.9	13.1	50.9
0.330000	34.4	5000.0	9.000	On	L1	19.9	15.1	49.5
0.550500	37.8	5000.0	9.000	On	L1	20.0	8.2	46.0
0.658500	35.4	5000.0	9.000	On	L1	19.9	10.6	46.0

### USB mode



**Figure A.11 Conducted Emission**

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

#### Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	41.7	5000.0	9.000	On	L1	20.0	22.1	63.8
0.478500	13.4	5000.0	9.000	On	L1	20.0	42.9	56.4
0.555000	32.5	5000.0	9.000	On	L1	20.0	23.5	56.0
0.627000	34.1	5000.0	9.000	On	L1	19.9	21.9	56.0
0.766500	32.7	5000.0	9.000	On	L1	19.9	23.3	56.0
9.793500	40.3	5000.0	9.000	On	N	19.9	19.7	60.0

#### Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	39.2	5000.0	9.000	On	N	20.0	14.6	53.8
0.487500	32.0	5000.0	9.000	On	L1	20.0	14.2	46.2
0.555000	32.8	5000.0	9.000	On	N	20.0	13.2	46.0
0.627000	34.3	5000.0	9.000	On	N	19.9	11.7	46.0
0.766500	32.8	5000.0	9.000	On	N	19.9	13.2	46.0
9.946500	30.6	5000.0	9.000	On	N	19.9	19.4	50.0



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

Test Item	Tester
Radiated Emission	Zhao Wenhui, Li Zongliang
Conducted Emission	Guo Qian

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