



# TEST REPORT

## No. I18Z61787-EMC01

for

**TCL Communication Ltd.**

**GSM/UMTS/LTE mobile phone**

**Model Name: A503DL**

**FCC ID: 2ACCJH096**

with

**Hardware Version: PIO**

**Software Version: vTV5**

**Issued Date: 2018-11-12**



**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>
I18Z61787-EMC01	Rev.0	1 <sup>st</sup> edition	2018-11-12



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## **1. Test Laboratory**

### **1.1. Testing Location**

#### **CTTL (huayuan North Road)**

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

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

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

### **1.2. Testing Environment**

Normal Temperature: 15-35°C

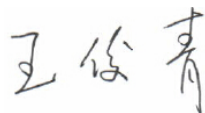
Relative Humidity: 20-75%

### **1.3. Project data**

Testing Start Date: 2018-10-24

Testing End Date: 2018-11-09

### **1.4. Signature**



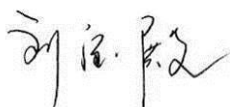
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**Wang Junqing**  
**(Prepared this test report)**



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**Zhang Ying**  
**(Reviewed this test report)**



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**Liu Baodian**  
**Deputy Director of the laboratory**  
**(Approved this test report)**



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: TCL Communication Ltd.  
Address /Post: 7/F, Block F4, TCL International E City, Zhong Shan Yuan Road,  
Nanshan District, Shenzhen, Guangdong, P.R. China 518052  
Contact Person: Gong Zhizhou  
Contact Email: zhizhou.gong@tcl.com  
Telephone: 0086-755-36611722  
Fax: 0086-755-36612000-8172

### **2.2. Manufacturer Information**

Company Name: TCL Communication Ltd.  
Address /Post: 7/F, Block F4, TCL International E City, Zhong Shan Yuan Road,  
Nanshan District, Shenzhen, Guangdong, P.R. China 518052  
Contact Person: Gong Zhizhou  
Contact Email: zhizhou.gong@tcl.com  
Telephone: 0086-755-36611722  
Fax: 0086-755-36612000-8172

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

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

Description	GSM/UMTS/LTE mobile phone
Model Name	A503DL
FCC ID	2ACCJH096
Extreme vol. Limits	3.5VDC to 4.4VDC (nominal: 3.8VDC)

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**

<b>EUT ID*</b>	<b>SN or IMEI</b>	<b>HW Version</b>	<b>SW Version</b>
EUT1	015283000110523	PIO	vTV5

\*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	/	inbuilt
AE7	Charger	/	18TCT-CH-0763
AE8	Charger	/	17TCT-CH-1321
AE9	USB Cable	/	1861787DC020
AE10	USB Cable	/	1861787DC007
AE11	Headset	/	/

##### AE1

Model	CAC2900019C1
Manufacturer	BYD
Capacitance	mAh
Nominal voltage	V

##### AE7

Model	CBA0058AGAC5
Manufacturer	PUAN
Length of cable	/

##### AE8

Model	CBA0058AGAC7
Manufacturer	CHENGYANG
Length of cable	/

##### AE9

Model	CDA3122002C8
Manufacturer	PUAN
Length of cable	m

##### AE10

Model	CDA3122002C2
Manufacturer	SHENGHUA
Length of cable	m



AE11  
Model /  
Manufacturer /  
Length of cable m

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

Note: The USB cables are shielded.

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

<b>EUT set-up No.</b>	<b>Combination of EUT and AE</b>	<b>Remarks</b>
Set.1	EUT1+ AE1+ AE7+ AE9/AE10	Charger +MP3
Set.2	EUT1+ AE1+ AE8+ AE9/AE10+AE11	Charger +FM+GPS
Set.3	EUT1+ AE1+ AE9/AE10	USB mode

## **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	2016
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×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, 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 3000 MHz

**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 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



## 6. SUMMARY OF TEST RESULTS

Abbreviations used in this clause:		
Verdict Column	P	Pass
	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	P	CTTL(BDA)
2	Conducted Emission	15.107(a)	B.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	2018-12-17	1 year
2	Test Receiver	ESCI	100766	R&S	2019-04-16	1 year
3	Universal Radio Communication Tester	CMW500	127406	R&S	2019-02-19	1 year
4	LISN	ESH3-Z5	825562/028	R&S	2019-01-31	1 year
5	EMI Antenna	VULB 9163	9163-514	Schwarzbeck	2019-02-03	3 years
6	EMI Antenna	3117	00139065	ETS-Lindgren	2020-09-21	3 years
7	Universal Radio Communication Tester	CMW500	159408	R&S	2019-04-12	1 year
8	Signal Generator	SMF100A	101295	R&S	2018-12-23	1 year
8	PC	M4000e-17	M706RMW2	Lenovo	N/A	N/A
9	Printer	HP laserJet 1160	33740	HP	N/A	N/A
10	Keyboard	KU-1601	2048361	Lenovo	N/A	N/A
11	Mouse	EMS-537A	8021S3MC	Lenovo	N/A	N/A

Test Item	Test Software and Version	Software Vendor
Radiated Continuous Emission	EMC32 V9.01	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 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.

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

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:

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

Where

$G_A$ : Antenna factor of receive antenna

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

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

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

#### Measurement results for Set.1:

##### Charging 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)
17982.000	40.0	-25.3	40.8	24.45	54.0	14.0	V
17960.250	39.9	-25.0	40.8	24.04	54.0	14.1	V
17998.500	39.7	-24.9	40.8	23.84	54.0	14.3	V
17986.500	39.6	-25.4	40.8	24.15	54.0	14.4	V
17952.750	39.6	-24.9	40.8	23.66	54.0	14.4	V
17979.750	39.6	-25.3	40.8	24.02	54.0	14.4	H

##### Charging 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)
17979.000	52.1	-25.3	40.8	36.54	74.0	21.9	V
17638.500	51.7	-25.8	41.1	36.45	74.0	22.3	V
17960.250	51.6	-25.0	40.8	35.74	74.0	22.4	V
17975.250	51.1	-25.2	40.8	35.49	74.0	22.9	V
17941.500	51.1	-24.8	40.8	34.99	74.0	22.9	H
18000.000	51.1	-24.8	40.8	35.10	74.0	22.9	V

**Measurement results for Set.2:**

**Charging 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)
17982.750	39.8	-25.3	40.8	24.25	54.0	14.2	V
17967.750	39.7	-25.1	40.8	24.03	54.0	14.3	V
17995.500	39.7	-25.0	40.8	23.93	54.0	14.3	V
17997.750	39.7	-24.9	40.8	23.80	54.0	14.3	H
17960.250	39.7	-25.0	40.8	23.84	54.0	14.3	H
17955.000	39.6	-24.9	40.8	23.73	54.0	14.4	V

**Charging 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)
17947.500	51.9	-24.8	40.8	35.89	74.0	22.1	H
17962.500	51.8	-25.0	40.8	36.06	74.0	22.2	V
17956.500	51.6	-25.0	40.8	35.77	74.0	22.4	V
17994.750	51.6	-25.1	40.8	35.84	74.0	22.4	H
17991.750	51.4	-25.2	40.8	35.81	74.0	22.6	H
17993.250	51.3	-25.1	40.8	35.59	74.0	22.7	H

**Measurement results for Set.3:**

**USB 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)
17964.000	39.9	-25.1	40.8	24.103	54.0	14.1	V
17995.500	39.8	-25.0	40.8	24.057	54.0	14.2	V
17987.250	39.8	-25.4	40.8	24.385	54.0	14.2	H
17973.750	39.7	-25.2	40.8	24.111	54.0	14.3	H
17979.750	39.7	-25.3	40.8	24.184	54.0	14.3	H
17983.500	39.7	-25.3	40.8	24.219	54.0	14.3	H

**USB 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)
17961.000	52.0	-25.0	40.8	36.24	74.0	22.0	H
17949.750	51.6	-24.9	40.8	35.65	74.0	22.4	H
17618.250	51.3	-25.8	41.1	35.98	74.0	22.7	H
17623.500	51.1	-25.9	41.1	35.89	74.0	22.9	V
17625.750	51.0	-25.9	41.1	35.78	74.0	23.0	H
17863.500	51.0	-23.7	40.9	33.79	74.0	23.0	V

Charging Mode, Set.1

15B RE 30MHz-1GHz

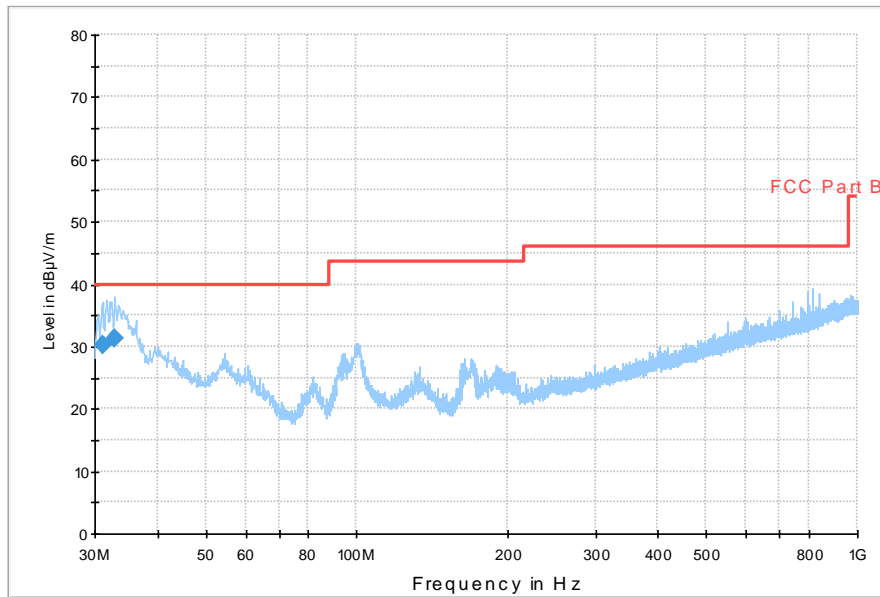


Fig A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
31.067000	30.2	100.0	V	92.0	-1.0	9.8	40.0	
32.910000	31.4	100.0	V	142.0	-0.7	8.6	40.0	

15B RE - 1GHz-3GHz

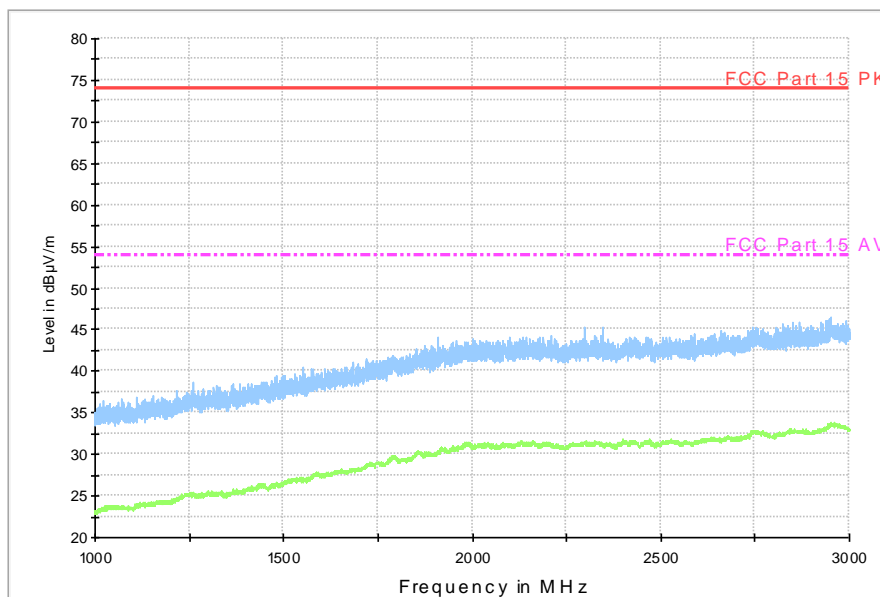
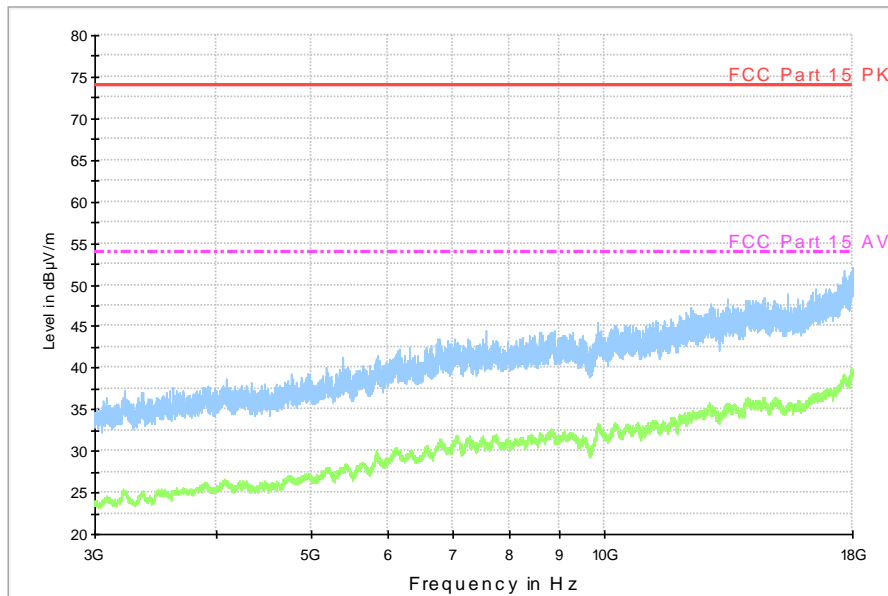


Fig A.2 Radiated Emission from 1GHz to 3GHz



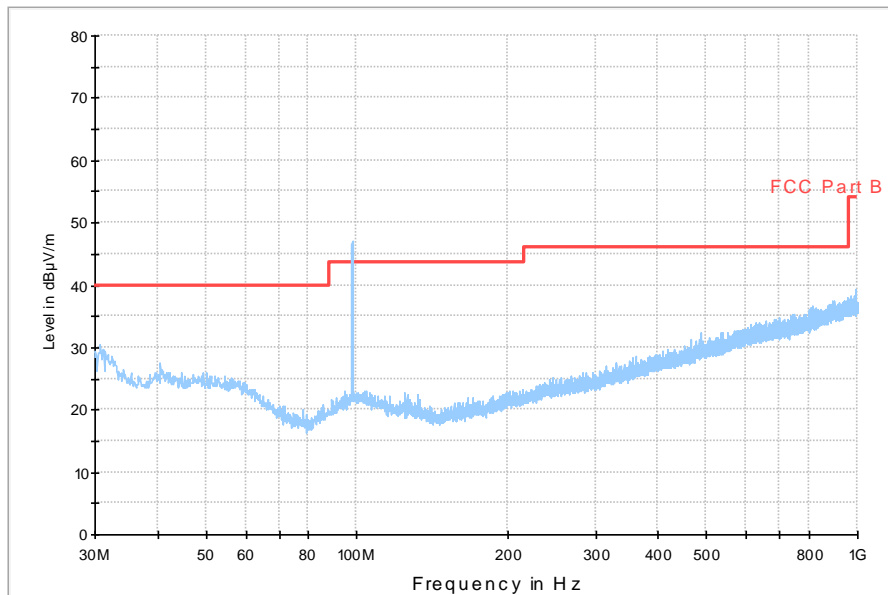
15b RE - 3GHz-18GHz



**Fig A.3 Radiated Emission from 3GHz to 18GHz**

**Charging Mode, Set.2**

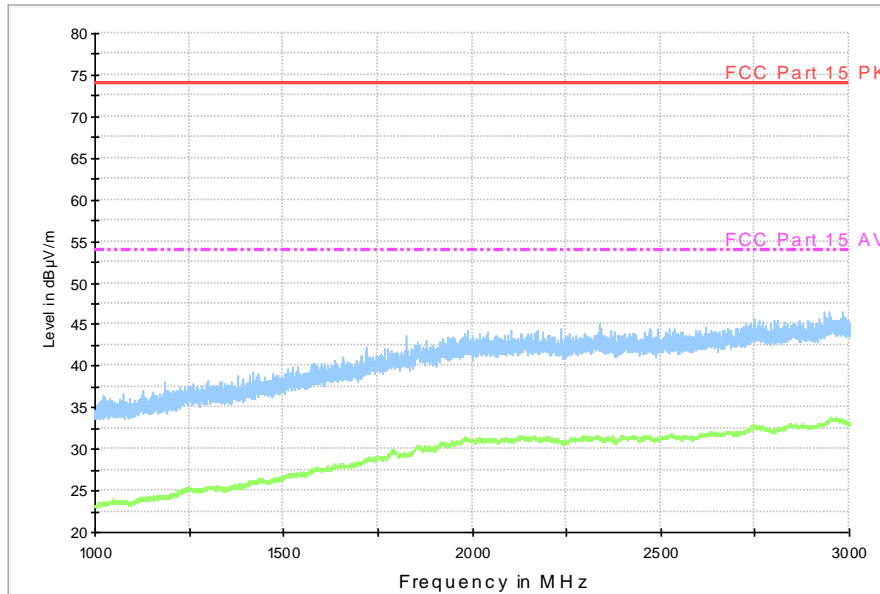
15B RE 30MHz-1GHz



Note: The spike over the limit is coming from FM signal.

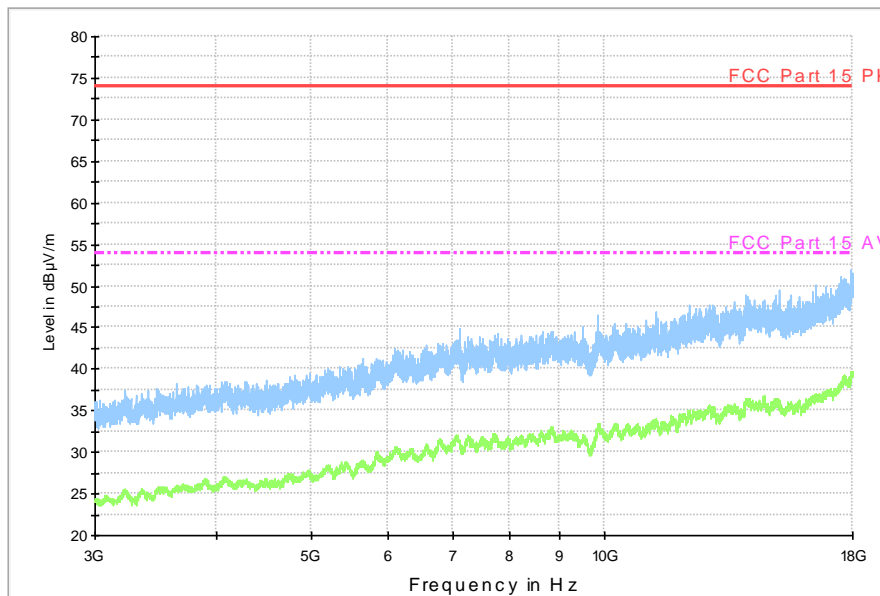
**Fig A.4 Radiated Emission from 30MHz to 1GHz**

15B RE - 1GHz-3GHz



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

15b RE - 3GHz-18GHz



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

USB Mode, Set.3

15B RE 30MHz-1GHz

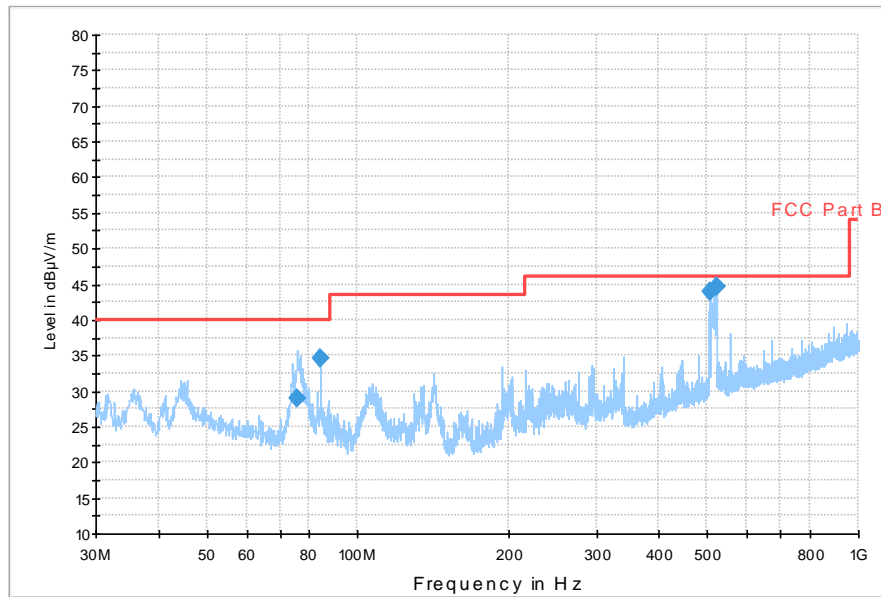
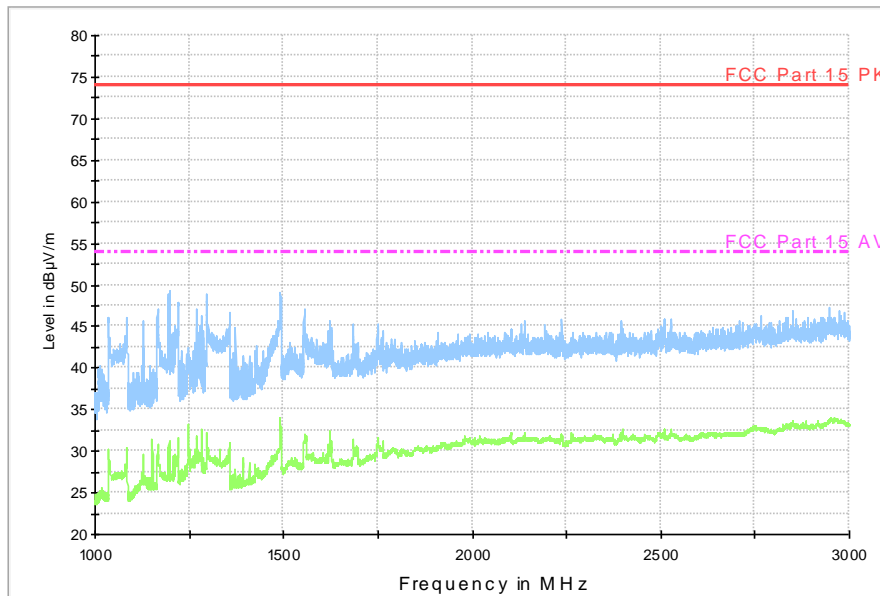


Fig A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

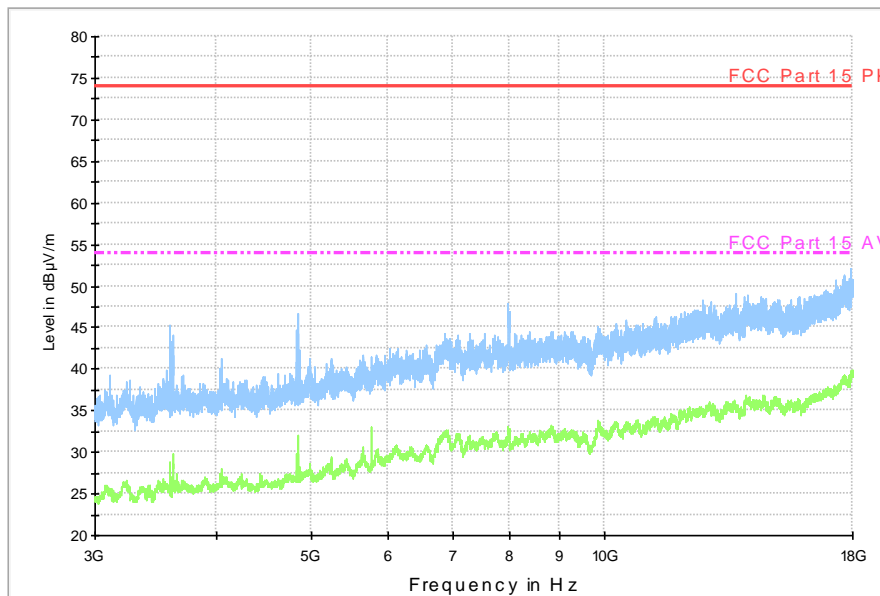
Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
75.687000	29.0	100.0	V	288.0	-5.4	11.0	40.0	
84.320000	34.6	210.0	H	8.0	-4.8	5.4	40.0	
505.300000	44.0	125.0	V	-13.0	7.1	2.0	46.0	
519.947000	44.7	100.0	H	-24.0	7.3	1.3	46.0	

15B RE - 1GHz-3GHz



**Fig A.8 Radiated Emission from 1GHz to 3GHz**

15b RE - 3GHz-18GHz



**Fig 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 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.

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:  $U= 2.9$  dB,  $k=2$ .

#### Charging Mode, Set.1

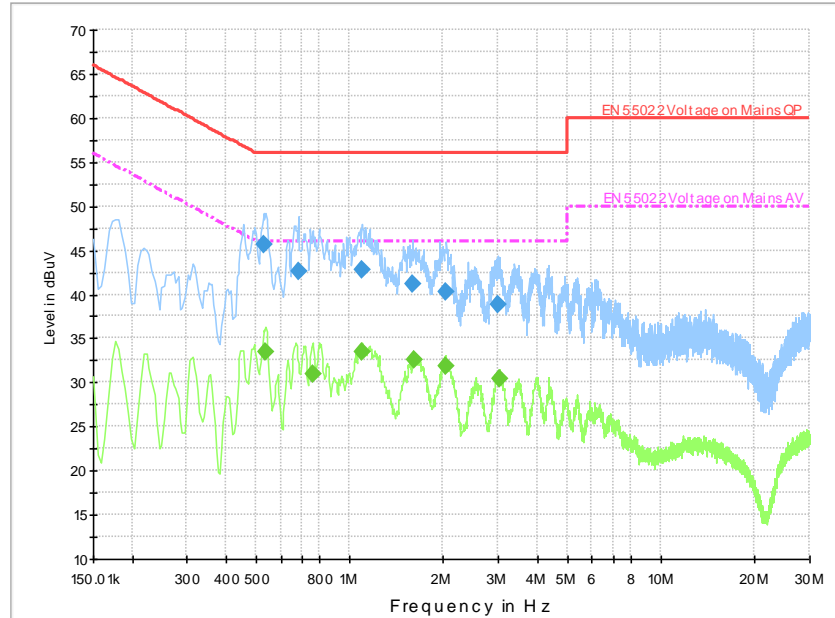


Fig A.10 Conducted Emission

#### Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.528000	45.7	2000.0	9.000	GND	L1	10.1	10.3	56.0	
0.685500	42.6	2000.0	9.000	GND	L1	10.1	13.4	56.0	
1.095000	42.7	2000.0	9.000	GND	L1	10.2	13.3	56.0	
1.594500	41.1	2000.0	9.000	GND	L1	10.2	14.9	56.0	
2.040000	40.3	2000.0	9.000	GND	L1	10.0	15.7	56.0	
2.980500	38.9	2000.0	9.000	GND	L1	9.9	17.1	56.0	

#### Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.537000	33.4	2000.0	9.000	GND	L1	10.1	12.6	46.0	
0.762000	31.0	2000.0	9.000	GND	L1	10.1	15.0	46.0	
1.099500	33.5	2000.0	9.000	GND	L1	10.2	12.5	46.0	
1.608000	32.6	2000.0	9.000	GND	L1	10.2	13.4	46.0	
2.026500	31.8	2000.0	9.000	GND	L1	10.2	14.2	46.0	
3.034500	30.4	2000.0	9.000	GND	L1	9.9	15.6	46.0	

Charging Mode, Set.2

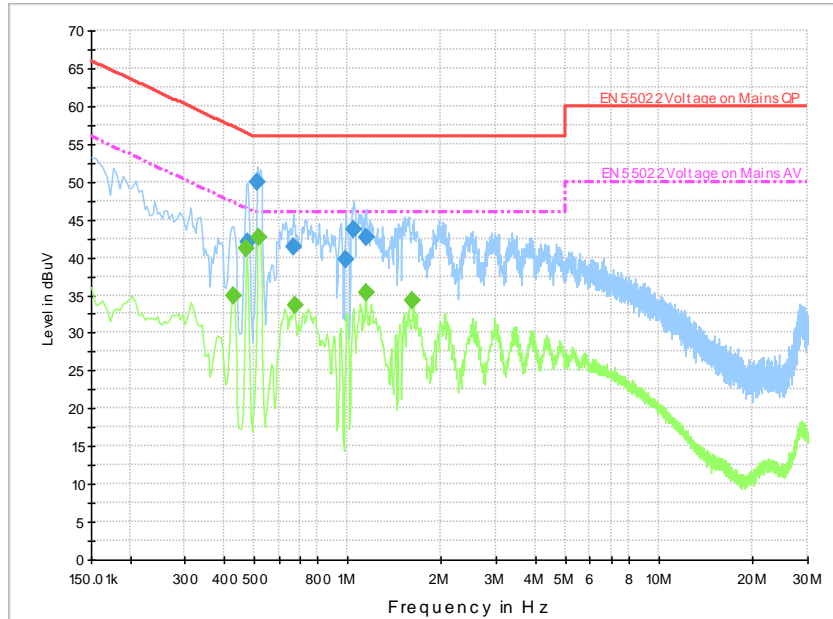


Fig A.11 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.478500	42.1	2000.0	9.000	GND	L1	10.1	14.3	56.4	
0.514500	50.0	2000.0	9.000	GND	L1	10.1	6.0	56.0	
0.667500	41.4	2000.0	9.000	GND	L1	10.1	14.6	56.0	
0.987000	39.7	2000.0	9.000	GND	L1	10.1	16.3	56.0	
1.045500	43.8	2000.0	9.000	GND	L1	10.1	12.2	56.0	
1.144500	42.5	2000.0	9.000	GND	L1	10.2	13.5	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.429000	34.8	2000.0	9.000	GND	N	10.1	12.5	47.3	
0.474000	41.2	2000.0	9.000	GND	N	10.1	5.3	46.4	
0.519000	42.7	2000.0	9.000	GND	N	10.1	3.3	46.0	
0.676500	33.6	2000.0	9.000	GND	N	10.1	12.4	46.0	
1.144500	35.4	2000.0	9.000	GND	N	10.2	10.6	46.0	
1.617000	34.2	2000.0	9.000	GND	N	10.2	11.8	46.0	

USB Mode, Set.3

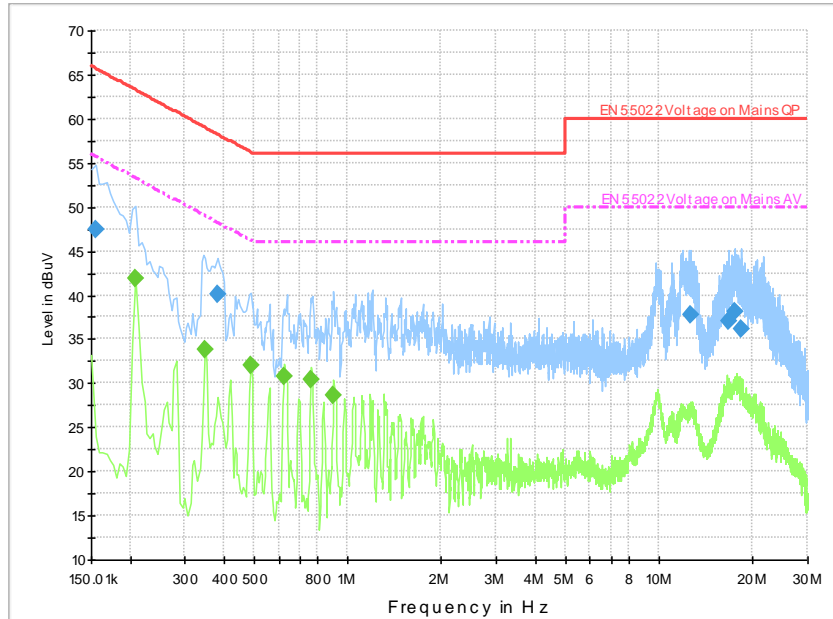


Fig A.12 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.154500	47.5	2000.0	9.000	GND	N	10.1	18.3	65.8	
0.384000	40.1	2000.0	9.000	GND	L1	10.1	18.1	58.2	
12.565500	37.8	2000.0	9.000	GND	L1	10.6	22.2	60.0	
16.701000	37.1	2000.0	9.000	GND	N	10.7	22.9	60.0	
17.592000	38.1	2000.0	9.000	GND	N	10.7	21.9	60.0	
18.447000	36.2	2000.0	9.000	GND	L1	10.9	23.8	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.208500	41.8	2000.0	9.000	GND	L1	10.1	11.5	53.3	
0.348000	33.9	2000.0	9.000	GND	L1	10.1	15.1	49.0	
0.487500	31.9	2000.0	9.000	GND	L1	10.1	14.3	46.2	
0.627000	30.7	2000.0	9.000	GND	L1	10.1	15.3	46.0	
0.766500	30.4	2000.0	9.000	GND	L1	10.1	15.6	46.0	
0.901500	28.7	2000.0	9.000	GND	L1	10.1	17.3	46.0	





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

Test Item	Tester
Conducted Continuous Emission	Yang Fei
Radiated Continuous Emission	Zhao Wenhui

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