



TEST REPORT

No. I19Z61589-EMC02

for

TCL Communication Ltd.

Tablet

Model Name: 8051,8052

FCC ID: 2ACCJBT17

with

Hardware Version: V1.1

Software Version: vA12

Issued Date: 2019-09-26

Note:

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Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I19Z61589-EMC02	Rev.0	1 st edition	2019-09-25
I19Z61589-EMC02	Rev.1	Add description for BT and WLAN in the report	2019-09-25
I19Z61589-EMC02	Rev.2	Add information of headset for AE11	2019-09-26



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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. China100191

CTTL(yizhuang)

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

1.2. Testing Environment

Normal Temperature: 15-35℃

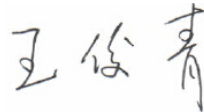
Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2019-09-24

Testing End Date: 2019-09-25

1.4. Signature



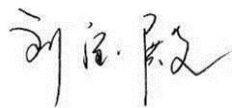
Wang Junqing

(Prepared this test report)



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(Reviewed this test report)



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(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
7/F, Block F4, TCL Communication Technology Building, TCL
Address /Post: International E City, Zhong Shan Yuan Road, Nanshan District,
Shenzhen, Guangdong, P.R. China 518052
City: Shenzhen
Postal Code: 518052
Country: China
Telephone: 0086-755-36611722
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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
7/F, Block F4, TCL Communication Technology Building, TCL
Address /Post: International E City, Zhong Shan Yuan Road, Nanshan District,
Shenzhen, Guangdong, P.R. China 518052
City: Shenzhen
Postal Code: 518052
Country: China
Telephone: 0086-755-36611722
Fax: /

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

3.1. About EUT

Description	Tablet
Model Name	8051,8052
FCC ID	2ACCJBT17

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

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	889E33C98A10	V1.1	vA12

*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		
AE3	Charger		
AE4	Charger		
AE5	Charger		
AE6	Charger		
AE7	Charger		
AE8	Charger		
AE9	USB		
AE10	USB		
AE11	Headset		

AE1

Model	CAC2580038C7
Manufacturer	VEKEN
Capacitance	2580mAh
Nominal voltage	3.8V

AE3

Model	CBA0058AGAC7
Manufacturer	CHENYANG
Length of cable	/

AE4

Model	CBA0058AGAC5
Manufacturer	PUAN
Length of cable	/

AE5

Model	CBA0058AAAC7
Manufacturer	CHENYANG
Length of cable	/



AE6	
Model	CBA0058AAAC5
Manufacturer	PUAN
Length of cable	/
AE7	
Model	CBA0058ABAC7
Manufacturer	CHENYANG
Length of cable	/
AE8	
Model	CBA0058ABAC5
Manufacturer	PUAN
Length of cable	/
AE9	
Model	CDA3122005C1
Manufacturer	JUWEI
Length of cable	98cm
AE10	
Model	CDA3122005C8
Manufacturer	PUAN
Length of cable	98cm
AE11	
Model	CCB0049A10C1
Manufacturer	JUWEI
Length of cable	120cm

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

Note: The USB cables are shielded.



3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT 1+ AE1+AE3+AE9/AE10+AE11	Charger+Headset(Camera recording mode, BT, WLAN on receiving mode)
Set.2	EUT 1+ AE1+AE4+AE9/AE10+AE11	Charger+Headset(MP4 mode, WLAN on receiving mode)
Set.3	EUT 1+ 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.

Reference	Title	Version
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, 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

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(yizhuang)
2	Conducted Emission	15.107(a)	B.2	P	CTTL(huayuan North Road)

**7. Test Equipments Utilized**

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESCi7	100344	R&S	2020-02-14	1 Year
2	Universal Radio Communication Tester	CMW500	143008	R&S	2019-11-26	1 year
3	LISN	ENV216	101200	R&S	2020-03-14	1 year
4	EMI Antenna	VULB 9163	9163-301	Schwarzbeck	2020-02-28	1 year
5	EMI Antenna	3115	00167250	ETS-Lindgren	2020-05-14	1 year
6	PC	OPTIPLEX 380	2X1YV2X	DELL	N/A	N/A
7	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
8	Keyboard	L100	CN0RH6596589 07ATOI40	DELL	N/A	N/A
9	Mouse	M-UAE119	LZ935220ZRC	Lenovo	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 EUT and charging mode of EUT) 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 EUT is operating in the USB mode and charging mode. During the test EUT 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. And during the test, BT, WLAN, MP4, Camera recording are turned on for each 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 EUT, 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_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Measurement uncertainty (worst case): $U = 5.44 \text{ dB}$, $k=2$.

Measurement results for Set.1 (Camera recording mode):

Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)
17975.067	45.9	-17.7	45.6	18.000	H
17956.933	45.9	-17.7	45.6	18.000	H
17937.100	45.9	-17.7	45.6	18.000	V
17953.533	45.8	-17.7	45.6	17.900	H
17939.933	45.7	-17.7	45.6	17.800	H
17820.933	45.7	-18.5	45.6	18.600	H

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)
17947.300	58.0	-17.7	45.6	30.100	H
17934.833	57.7	-17.7	45.6	29.800	H
17291.667	57.6	-19.5	41.5	35.600	V
17939.933	57.5	-17.7	45.6	29.600	H
17950.700	57.4	-17.7	45.6	29.500	H
17392.533	57.2	-19.2	41.5	34.900	H

Measurement results for Set.2 (MP4 mode):

Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
17822.067	45.9	-18.5	45.6	18.800	H
17958.067	45.9	-17.7	45.6	18.000	H
17987.533	45.9	-17.7	45.6	18.000	V
17490.000	45.9	-19.2	41.5	23.600	H
17960.333	45.8	-17.7	45.6	17.900	H
17943.900	45.8	-17.7	45.6	17.900	H

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
17945.033	57.3	-17.7	45.6	29.400	H
17976.767	56.9	-17.7	45.6	29.000	H
17962.600	56.9	-17.7	45.6	29.000	V
17934.833	56.8	-17.7	45.6	28.900	H
17956.367	56.7	-17.7	45.6	28.800	H
17941.067	56.7	-17.7	45.6	28.800	H

Measurement results for Set.3:

USB Mode/Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
17942.767	46.1	-17.7	45.6	18.200	H
17827.167	45.9	-18.5	45.6	18.800	H
17942.200	45.8	-17.7	45.6	17.900	V
17946.167	45.8	-17.7	45.6	17.900	H
17959.767	45.8	-17.7	45.6	17.900	H
17939.367	45.8	-17.7	45.6	17.900	H

USB Mode/ Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Antenna Pol. (H/V)
17601.633	57.3	-18.9	45.6	30.600	H
17935.967	57.2	-17.7	45.6	29.300	H
17829.433	57.1	-18.5	45.6	30.000	V
17858.333	56.9	-18.5	45.6	29.800	H
17901.400	56.8	-18.5	45.6	29.700	H
17964.300	56.7	-17.7	45.6	28.800	H

Note: The measurement results of Set.1, Set.2, Set.3 showed here are worst cases of the combinations of different batteries and USB cables.

Charging Mode, Set.1 (Camera recording mode):

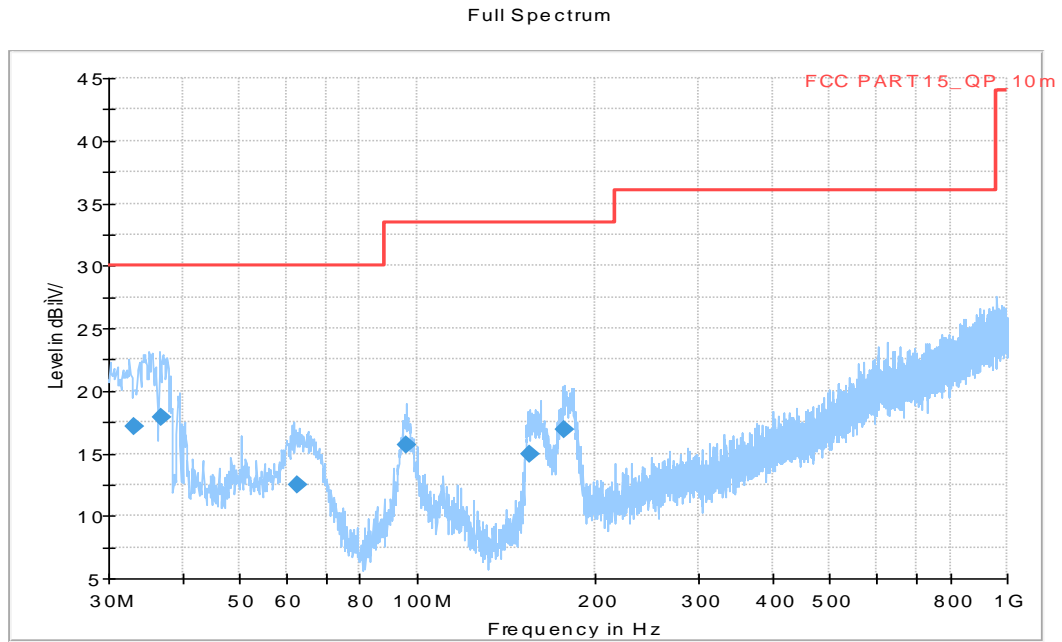


Fig A.1 Radiated Emission from 30MHz to 1GHz

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
30.933000	19.21	30.00	10.79	1000.0	120.000	107.0	V	-30.0
36.878000	17.51	30.00	12.49	1000.0	120.000	104.0	V	-20.0
63.553000	12.88	30.00	17.12	1000.0	120.000	104.0	V	-26.0
96.200000	15.50	33.50	18.02	1000.0	120.000	121.0	V	244.0
158.904000	15.79	33.50	17.73	1000.0	120.000	125.0	V	-21.0
182.974000	16.72	33.50	16.80	1000.0	120.000	112.0	V	-28.0

Full Spectrum

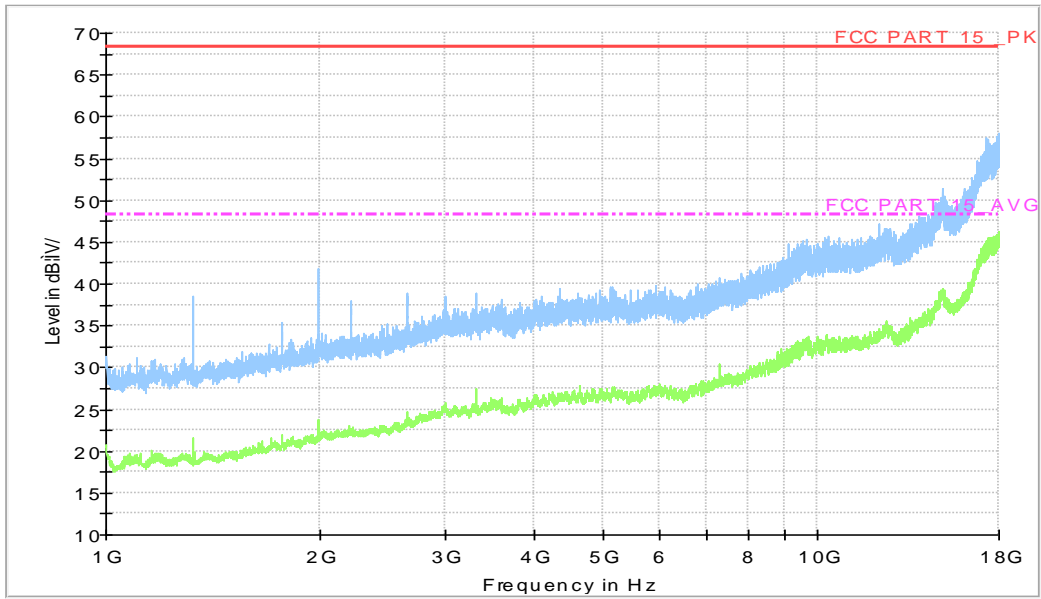


Fig A.2 Radiated Emission from 1GHz to 18GHz

Charging Mode, Set.2 (MP4 mode):

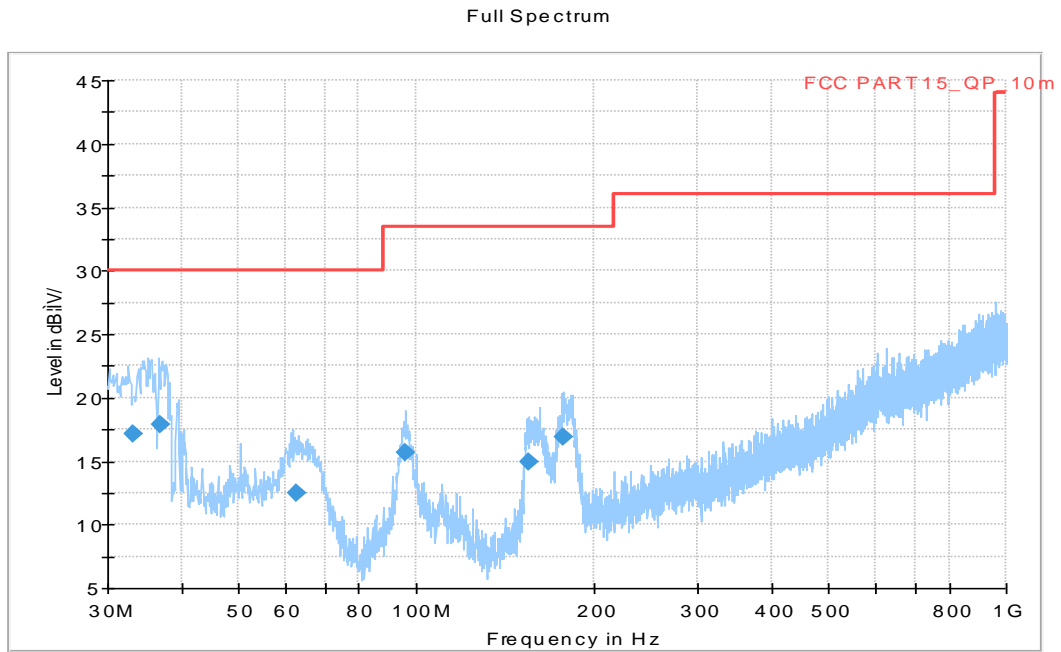


Fig A.3 Radiated Emission from 30MHz to 1GHz

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
33.062000	17.17	30.00	12.83	1000.0	120.000	102.0	V	210.0
36.836000	17.84	30.00	12.16	1000.0	120.000	225.0	V	-19.0
62.647000	12.48	30.00	17.52	1000.0	120.000	102.0	V	7.0
95.766000	15.67	33.50	17.85	1000.0	120.000	111.0	V	243.0
155.541000	14.89	33.50	18.63	1000.0	120.000	107.0	V	-26.0
177.583000	16.96	33.50	16.56	1000.0	120.000	125.0	V	-30.0

Full Spectrum

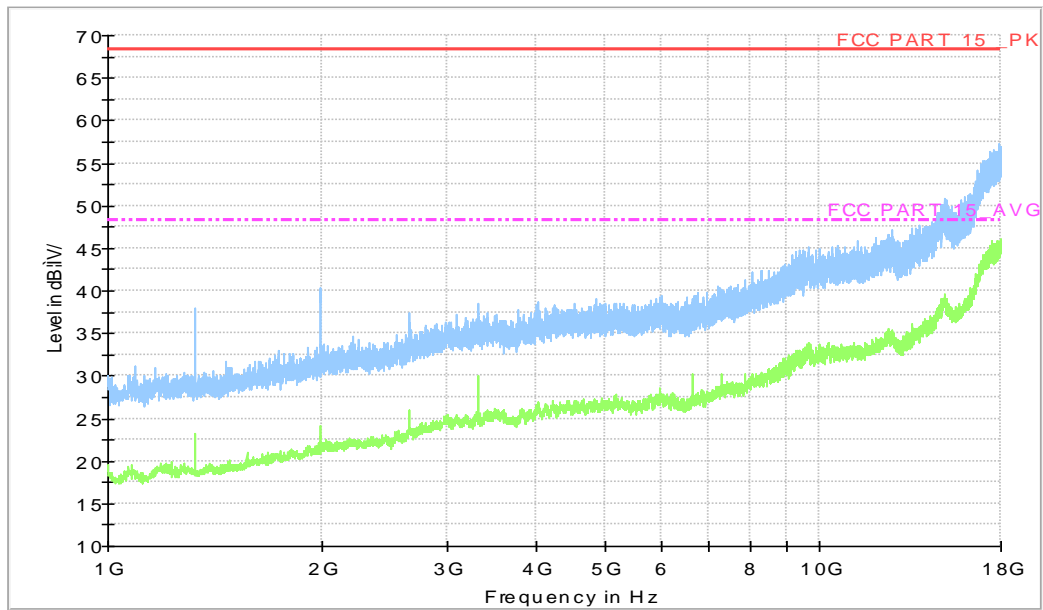


Fig A.4 Radiated Emission from 1GHz to 18GHz

USB Mode, Set.3

Full Spectrum

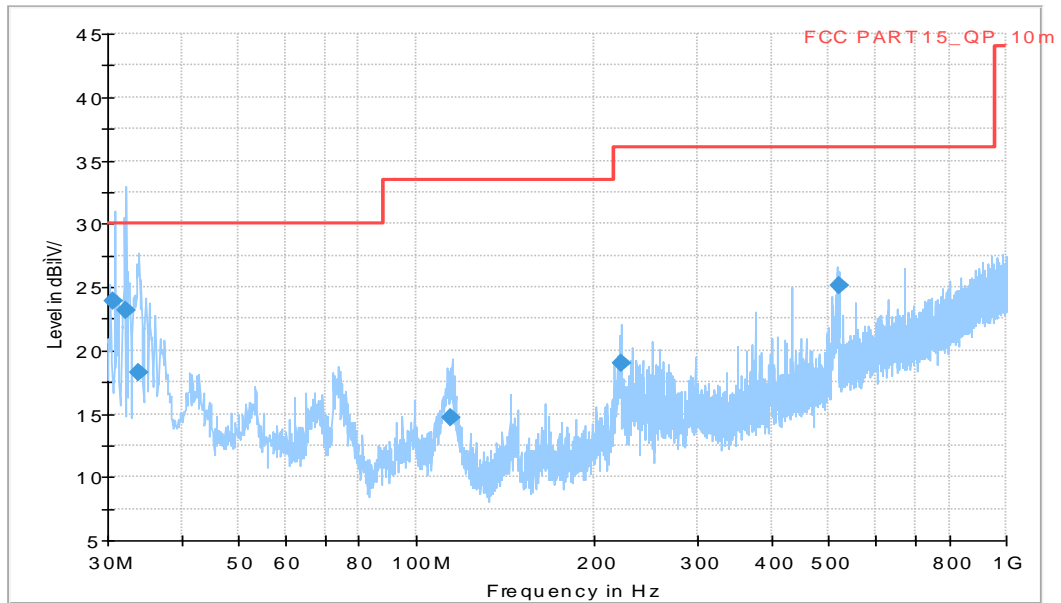


Fig A.5 Radiated Emission from 30MHz to 1GHz

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
30.753000	23.90	30.00	6.10	1000.0	120.000	100.0	V	242.0
32.231000	23.22	30.00	6.78	1000.0	120.000	185.0	V	241.0
33.760000	18.29	30.00	11.71	1000.0	120.000	102.0	V	120.0
114.455000	14.72	33.50	18.80	1000.0	120.000	103.0	V	241.0
222.642000	19.00	36.00	17.02	1000.0	120.000	125.0	V	178.0
519.868000	25.12	36.00	10.90	1000.0	120.000	297.0	V	184.0

Full Spectrum

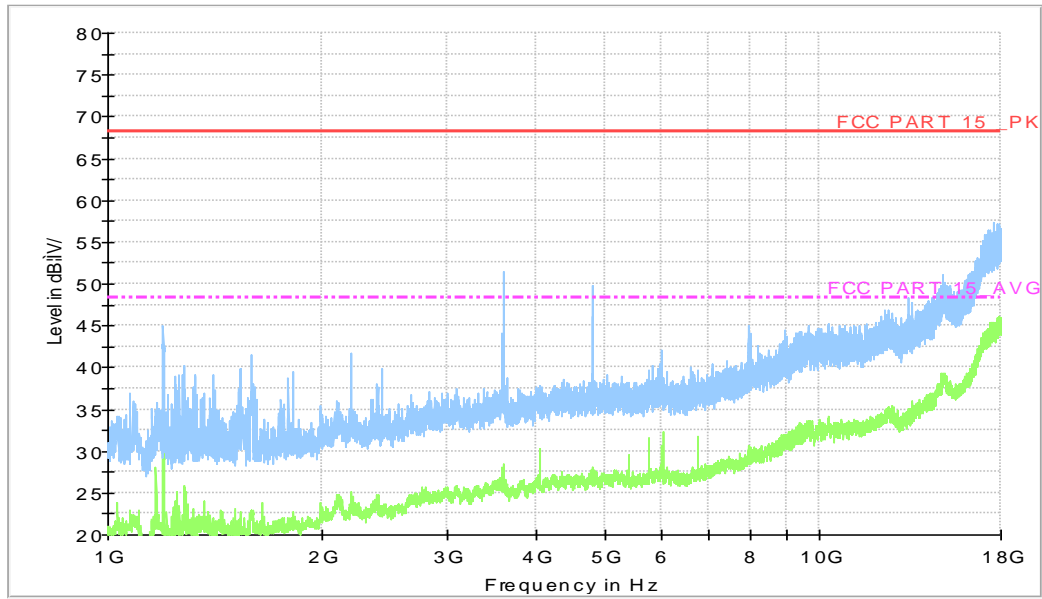


Fig A.6 Radiated Emission from 1GHz to 18GHz

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 EUT is operating in the USB mode and charging mode. During the test EUT 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. And during the test, BT, WLAN, MP4, Camera recording are turned on for each 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 EUT, 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 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: $U= 3.08 \text{ dB}$, $k=2$.

Charging Mode, Set.1 (Camera recording mode)

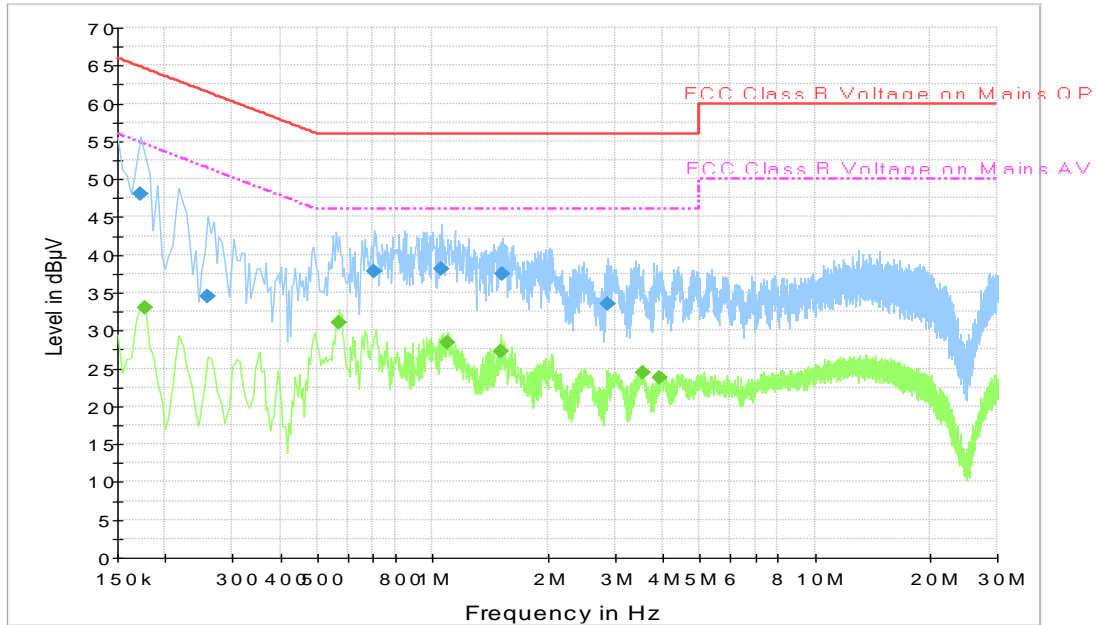


Fig A.7 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.172500	48.1	2000.0	9.000	On	N	25.7	16.7
0.258000	34.5	2000.0	9.000	On	L1	19.8	27.0
0.703500	37.8	2000.0	9.000	On	L1	19.8	18.2
1.059000	38.1	2000.0	9.000	On	L1	19.7	17.9
1.522500	37.5	2000.0	9.000	On	L1	19.6	18.5
2.886000	33.4	2000.0	9.000	On	L1	19.6	22.6

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.177000	33.1	2000.0	9.000	On	L1	24.8	21.6
0.568500	31.1	2000.0	9.000	On	L1	19.8	14.9
1.095000	28.3	2000.0	9.000	On	L1	19.7	17.7
1.513500	27.2	2000.0	9.000	On	L1	19.6	18.8
3.538500	24.5	2000.0	9.000	On	L1	19.6	21.5
3.934500	23.7	2000.0	9.000	On	L1	19.6	22.3

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

Charging Mode, Set.2 (MP4 mode)

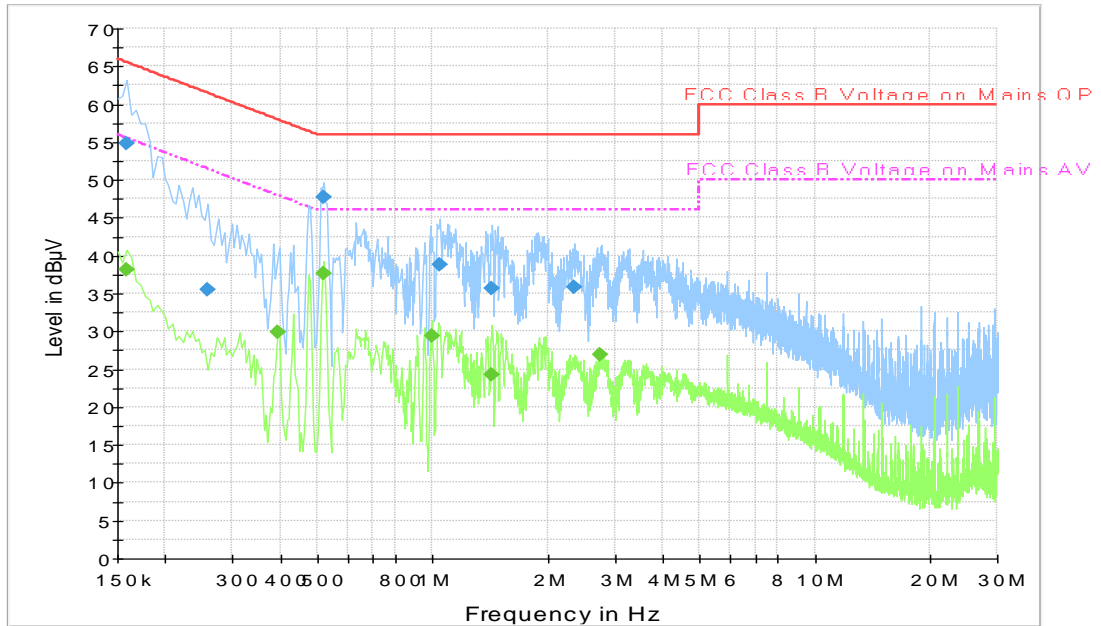


Fig A.8 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.159000	54.8	2000.0	9.000	On	L1	28.7	10.7
0.258000	35.4	2000.0	9.000	On	N	19.8	26.1
0.519000	47.8	2000.0	9.000	On	L1	19.8	8.2
1.045500	38.8	2000.0	9.000	On	L1	19.7	17.2
1.432500	35.6	2000.0	9.000	On	L1	19.6	20.4
2.341500	35.8	2000.0	9.000	On	L1	19.6	20.2

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.159000	38.2	2000.0	9.000	On	L1	28.7	17.3
0.393000	29.9	2000.0	9.000	On	L1	19.8	18.1
0.519000	37.7	2000.0	9.000	On	L1	19.8	8.3
0.996000	29.4	2000.0	9.000	On	L1	19.7	16.6
1.432500	24.2	2000.0	9.000	On	L1	19.6	21.8
2.751000	26.9	2000.0	9.000	On	L1	19.6	19.1

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

USB Mode, Set.3

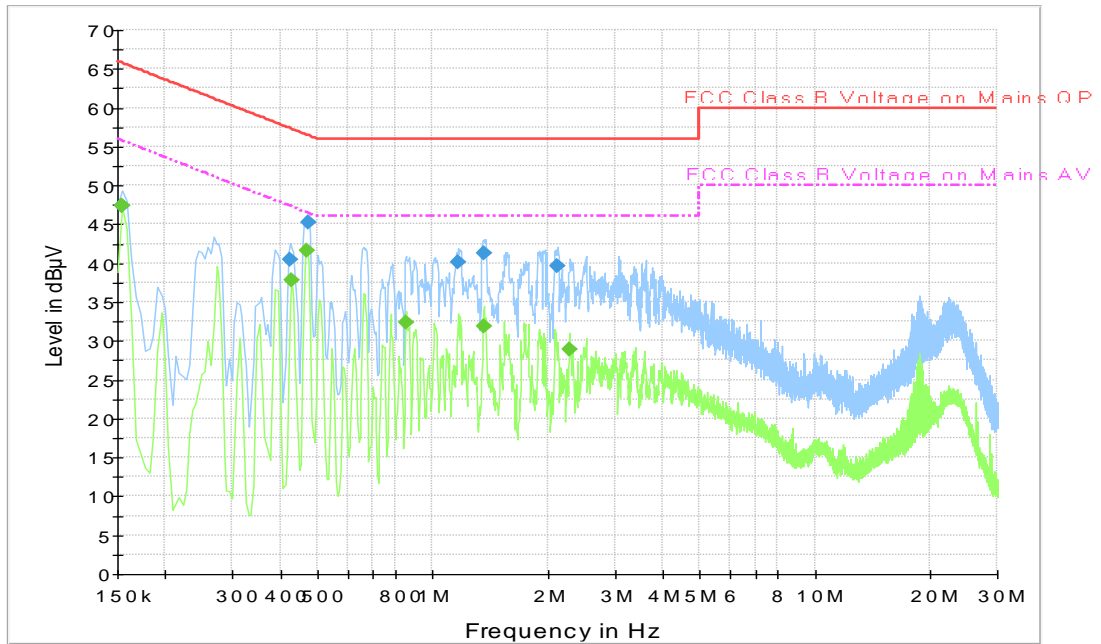


Fig A.9 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	47.4	2000.0	9.000	On	N	29.6	18.3
0.424500	40.4	2000.0	9.000	On	L1	19.8	16.9
0.474000	45.2	2000.0	9.000	On	L1	19.8	11.2
1.167000	40.1	2000.0	9.000	On	N	19.7	15.9
1.365000	41.2	2000.0	9.000	On	N	19.6	14.8
2.130000	39.7	2000.0	9.000	On	N	19.6	16.3

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	47.5	2000.0	9.000	On	L1	29.7	8.3
0.429000	37.8	2000.0	9.000	On	L1	19.8	9.5
0.469500	41.6	2000.0	9.000	On	N	19.8	4.9
0.852000	32.3	2000.0	9.000	On	N	19.7	13.7
1.360500	31.9	2000.0	9.000	On	L1	19.6	14.1
2.278500	29.0	2000.0	9.000	On	N	19.6	17.0

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



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	Wang Huan
Radiated Emission	EMC32 V9.01.00	R&S	Li Jinpeng

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