



TEST REPORT

No. I19Z61572-EMC01

for

TCL Communication Ltd.

UMTS/GSM mobile phone

Model Name: 3078A

FCC ID: 2ACCJH108

with

Hardware Version: PIO

Software Version: V1.0

Issued Date: 2019-09-11

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.

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

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I19Z61572-EMC01	Rev.0	1 st edition	2019-09-11

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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 (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

1.3. Testing Environment

Normal Temperature: 15-35°C

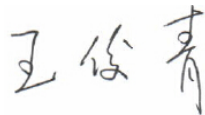
Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2019-08-01


Testing End Date: 2019-09-10

1.5. Signature



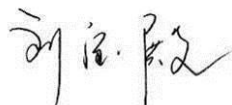
Wang Junqing

(Prepared this test report)



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(Reviewed this test report)



Liu Baodian

Deputy Director of the laboratory

(Approved this test report)



2. Client Information

2.1. Applicant Information

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Fax: 0086-755-36612000-81722

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
Contact Person: Zhizhou Gong
Contact Email: zhizhou.gong@tcl.com
Telephone: 0086-755-36611722
Fax: 0086-755-36612000-81722

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

3.1. About EUT

Description	UMTS/GSM mobile phone
Model Name	3078A
Extreme vol. Limits	3.6VDC 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 CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	358937100002113	PIO	V1.0

*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	/	inbuilt
AE2	Battery	/	inbuilt
AE3	Charger	/	/
AE4	Charger	/	/
AE5	Headset	/	/
AE6	USB Cable	/	/

AE1

Model	CAB1000012CA
Manufacturer	TIANMAO
Capacitance	1000mAh
Nominal voltage	4.2V

AE2

Model	CAB1000013C9
Manufacturer	FENGHUA
Capacitance	1000mAh
Nominal voltage	4.2V

AE3

Model	CBA0066AGAC5
Manufacturer	PUAN
Length of cable	/

AE4

Model	CBA0066AGAC7
Manufacturer	CHENYANG
Length of cable	/

AE5

Model	CCB0050A11C7
Manufacturer	/

Length of cable /
AE6
Model /
Manufacturer /
Length of cable /

*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	EUT1+ AE1+ AE3 + AE5	Charger +FM
Set.2	EUT1+ AE1+ AE4 + AE5	Charger +Camera
Set.3	EUT1+ AE1+ AE6	USB mode

Note: UMTS/GSM mobile phone 3078A manufactured by TCL Communication Ltd. is a variant model based on 3078G for conformance test. According to the declaration of changes, the following items are tested on Set.1 and Set.3.

Mode or Feature	EUT set-up No	Test Item
Charger Mode	Set.1	all test cases
USB Mode	Set.3	all test cases

Other results are inherited from the initial model. The report number of initial model is I19Z61432-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	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) CTTL(huayuan North Road)
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	CALIBRATI ON INTERVAL
1	Test Receiver	ESCI3	100344	R&S	2020-02-14	1 year
2	Test Receiver	ESU26	100235	R&S	2020-03-01	1 year
3	Universal Radio Communication Tester	CMW500	116588	R&S	2019-12-26	1 year
4	Universal Radio Communication Tester	CMW500	150344	R&S	2019-12-27	1 year
5	LISN	ENV216	101200	R&S	2020-03-14	1 year
6	Signal Power	SMBV100A	260613	R&S	2019-12-27	1 year
7	Test Receiver	ESU26	100376	Rohde & Schwarz	2019-11-27	1 year
8	BiLog Antenna	VULB9163	514	Schwarzbeck	2020-02-03	1 year
9	BiLog Antenna	VULB9163	9163-1222	Schwarzbeck	2020-03-14	1 year
10	Dual-Ridge Waveguide Horn Antenna	3117	00139065	ETS-Lindgren	2019-11-05	1 year
11	Base Station Simulator	CMW500	159408	Rohde & Schwarz	2020-03-03	1 year
12	PC	M4000e-17	M706GWXD	Lenovo	N/A	N/A
13	Printer	P1606dn	VNC3L52122	HP	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 LENOVO 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 (MHz)	Field strength limit ($\mu\text{V/m}$)		
	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:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

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

Measurement results for Set.1:

Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Antenna Pol. (H/V)
17959.200	46.6	-5.4	43.4	8.6	54.0	H
17946.733	46.4	-5.4	33.8	18.0	54.0	H
17935.967	46.4	-5.4	43.4	8.4	54.0	V
17499.067	46.3	-5.9	40.1	12.1	54.0	H
17611.833	46.3	-6.9	43.4	9.8	54.0	H
17949.000	46.3	-5.4	43.4	8.3	54.0	H

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Antenna Pol. (H/V)
17967.700	58.2	-5.4	43.4	20.2	74.0	H
17932.567	57.5	-5.4	33.8	29.1	74.0	H
17593.133	57.4	-6.9	43.4	20.9	74.0	V
17951.267	57.3	-5.4	43.4	19.3	74.0	H
17495.100	57.2	-5.9	40.1	23.0	74.0	H
17937.667	57.2	-5.4	43.4	19.2	74.0	H

Measurement results for Set.2:
Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17106.000	38.8	-26.0	41.6	23.2	54.0	15.2	V
17104.500	38.8	-26.0	41.6	23.2	54.0	15.2	V
17982.000	38.8	-25.8	41.3	23.3	54.0	15.2	V
17987.500	38.7	-25.8	41.3	23.3	54.0	15.3	V
17085.000	38.7	-26.2	41.6	23.3	54.0	15.3	V
17090.500	38.7	-26.1	41.6	23.3	54.0	15.3	V

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17133.500	51.8	-26.1	41.6	36.3	74.0	22.2	V
17976.000	51.6	-25.9	41.3	36.1	74.0	22.4	H
17960.500	51.2	-25.9	41.3	35.8	74.0	22.8	H
17049.000	51.0	-26.4	41.7	35.7	74.0	23.0	H
17086.500	50.9	-26.2	41.6	35.4	74.0	23.1	H
17459.500	50.9	-26.3	41.2	35.9	74.0	23.1	V

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)	Limit (dBμV/m)	Antenna Pol. (H/V)
17815.267	46.5	-5.7	43.4	8.8	54.0	H
17949.567	46.4	-5.4	33.8	18.0	54.0	H
17962.033	46.4	-5.4	43.4	8.4	54.0	V
17822.067	46.4	-5.7	43.4	8.7	54.0	H
17927.467	46.3	-5.4	43.4	8.3	54.0	H
17933.133	46.3	-5.4	43.4	8.3	54.0	H

USB Mode/Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Antenna Pol. (H/V)
17943.900	58.0	-5.4	43.4	20.0	74.0	H
17937.667	57.8	-5.4	33.8	29.4	74.0	H
17961.467	57.7	-5.4	43.4	19.7	74.0	V
17189.100	57.6	-6.3	40.1	23.8	74.0	H
17962.600	57.5	-5.4	43.4	19.5	74.0	H
17822.067	57.4	-5.7	43.4	19.7	74.0	H

Charging Mode, Set.1

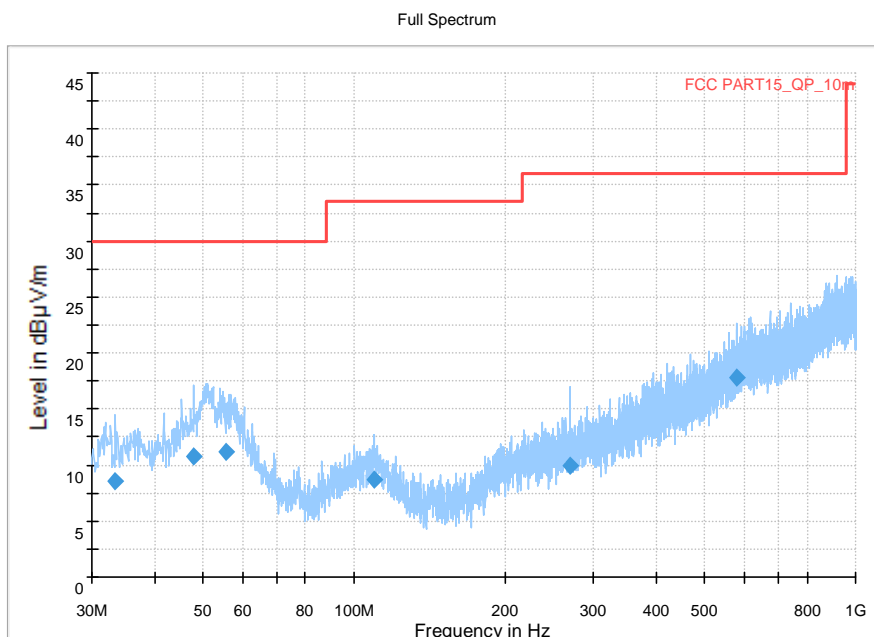


Fig A.1 Radiated Emission from 30MHz to 1GHz

Final_Result

Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
33.335000	8.51	30.00	21.49	1000.0	120.000	183.0	V	189.0
47.788000	10.74	30.00	19.26	1000.0	120.000	212.0	V	120.0
55.469000	11.18	30.00	18.82	1000.0	120.000	225.0	V	120.0
109.960000	8.65	33.50	24.87	1000.0	120.000	225.0	V	246.0
269.983000	9.93	36.00	26.09	1000.0	120.000	193.0	V	300.0
581.149000	17.74	36.00	18.28	1000.0	120.000	195.0	V	240.0

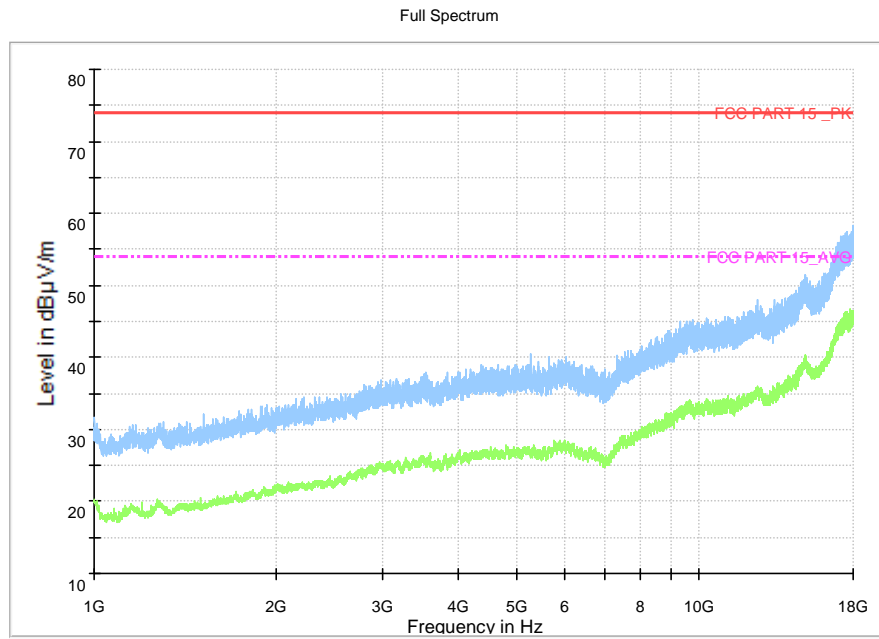


Fig A.2 Radiated Emission from 1GHz to 18GHz

Charging Mode, Set.2

15B RE 30MHz-1GHz

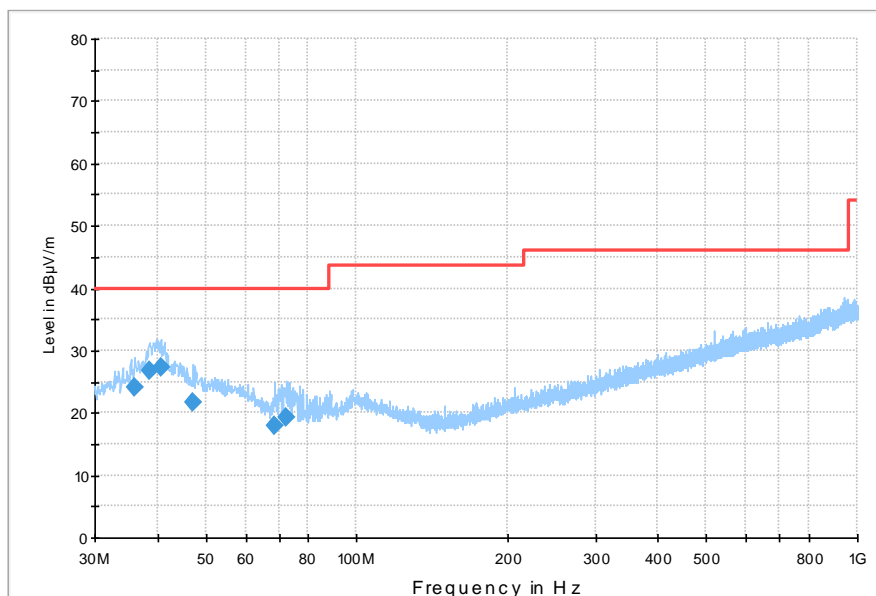


Fig A.3 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
36.014000	24.1	110.0	V	49.0	0.0	15.9	40.0	
38.536000	26.8	125.0	V	124.0	0.3	13.2	40.0	
40.670000	27.3	100.0	V	26.0	0.6	12.7	40.0	
47.072000	21.6	100.0	V	166.0	0.8	18.4	40.0	
68.509000	17.9	119.0	V	59.0	-3.7	22.1	40.0	
72.583000	19.3	125.0	V	107.0	-4.7	20.7	40.0	

15B RE - 1GHz-3GHz

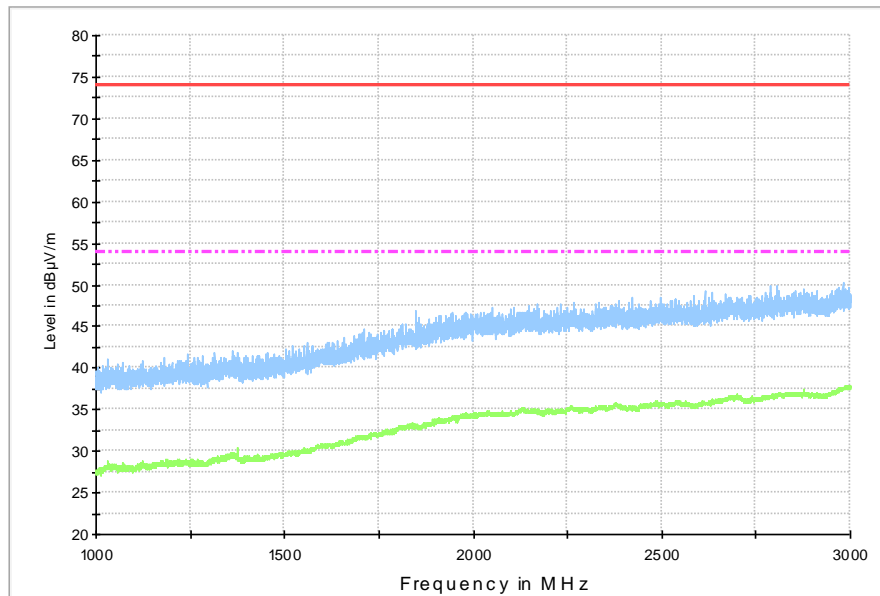


Fig A.4 Radiated Emission from 1GHz to 3GHz

15b RE - 3GHz-18GHz

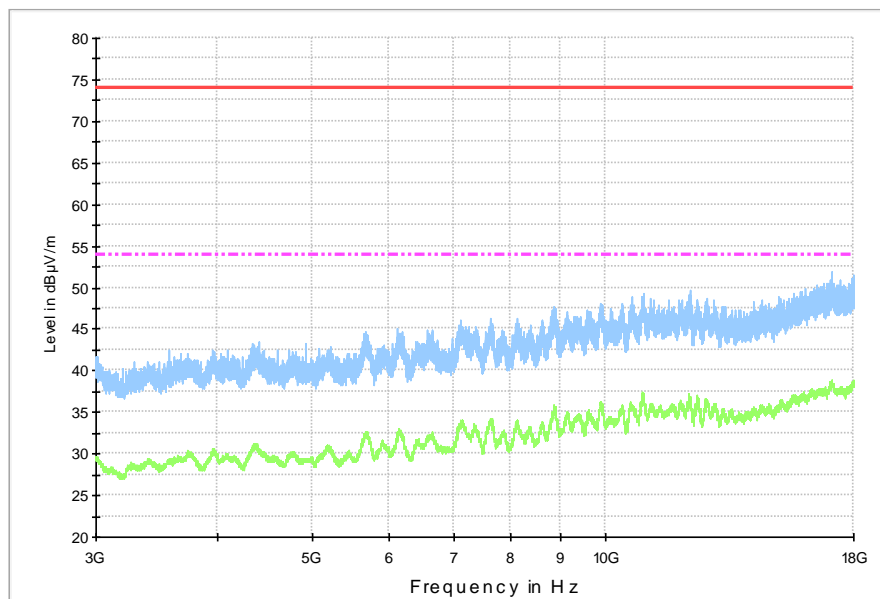


Fig A.5 Radiated Emission from 3GHz to 18GHz

USB Mode, Set.3

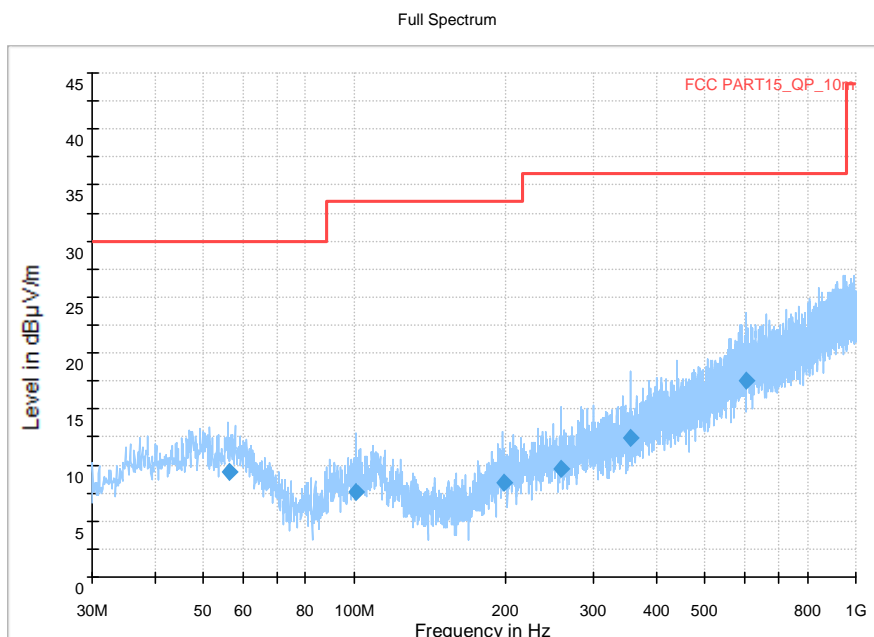


Fig A.6 Radiated Emission from 30MHz to 1GHz

Final_Result

Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.236000	9.35	30.00	20.65	1000.0	120.000	280.0	V	205.0	-12.2
100.999000	7.58	33.50	25.94	1000.0	120.000	319.0	V	252.0	-13.9
198.313000	8.44	33.50	25.08	1000.0	120.000	112.0	V	282.0	-12.2
258.227000	9.69	36.00	26.33	1000.0	120.000	125.0	V	296.0	-10.3
356.174000	12.39	36.00	23.63	1000.0	120.000	102.0	V	264.0	-7.3
604.402000	17.54	36.00	18.48	1000.0	120.000	111.0	V	203.0	-0.7

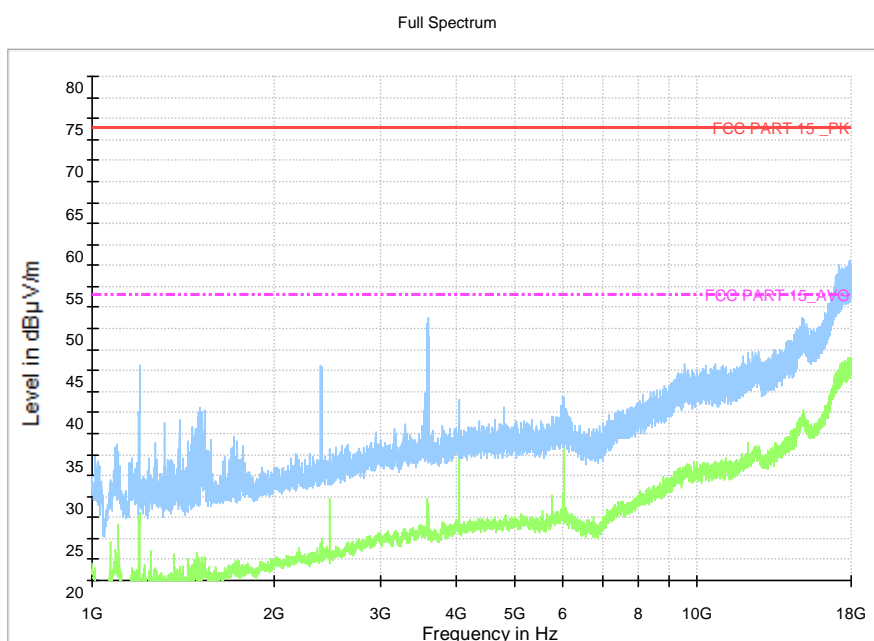


Fig A.7 Radiated Emission from 1GHz to 18GHz

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

Charging Mode, Set.1

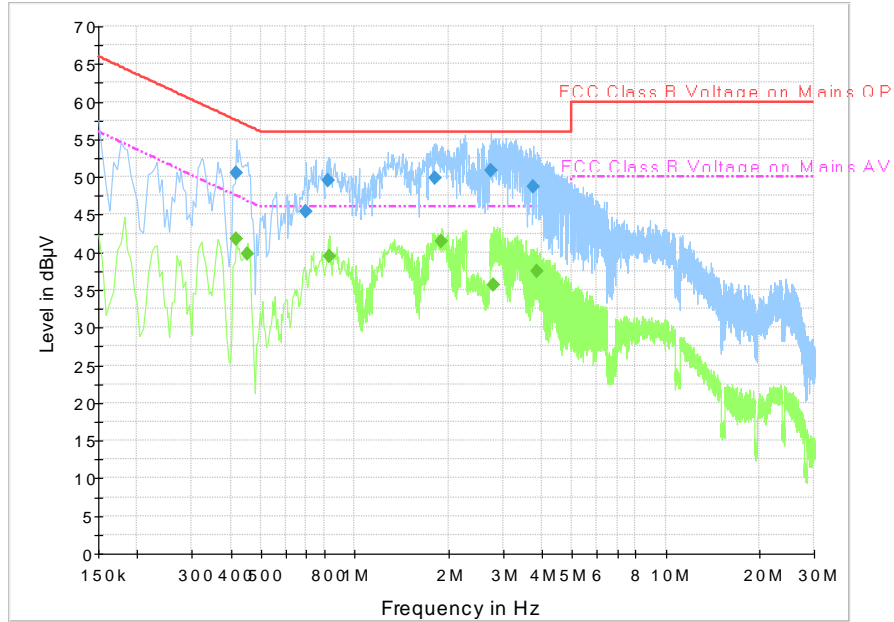


Fig A.8 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.415500	50.5	2000.0	9.000	On	L1	19.8	7.0	57.5	
0.699000	45.5	2000.0	9.000	On	L1	19.8	10.5	56.0	
0.820500	49.5	2000.0	9.000	On	L1	19.7	6.5	56.0	
1.806000	49.9	2000.0	9.000	On	L1	19.6	6.1	56.0	
2.737500	50.9	2000.0	9.000	On	L1	19.6	5.1	56.0	
3.763500	48.8	2000.0	9.000	On	L1	19.6	7.2	56.0	

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.415500	41.8	2000.0	9.000	On	L1	19.8	5.7	47.5	
0.451500	39.8	2000.0	9.000	On	L1	19.8	7.0	46.8	
0.829500	39.5	2000.0	9.000	On	L1	19.7	6.5	46.0	
1.891500	41.4	2000.0	9.000	On	L1	19.6	4.6	46.0	
2.805000	35.6	2000.0	9.000	On	L1	19.6	10.4	46.0	
3.862500	37.4	2000.0	9.000	On	L1	19.6	8.6	46.0	

Charging Mode, Set.2

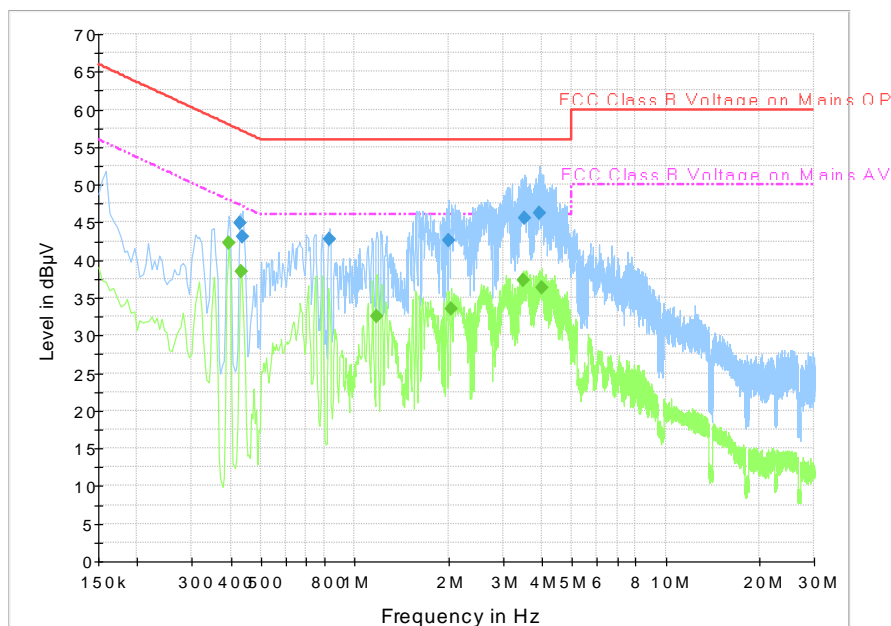


Fig A.9 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.429000	44.9	2000.0	9.000	On	L1	19.8	12.4	57.3	
0.438000	43.1	2000.0	9.000	On	L1	19.8	14.0	57.1	
0.829500	42.8	2000.0	9.000	On	L1	19.7	13.2	56.0	
2.013000	42.5	2000.0	9.000	On	L1	19.6	13.5	56.0	
3.529500	45.6	2000.0	9.000	On	L1	19.6	10.4	56.0	
3.939000	46.2	2000.0	9.000	On	L1	19.6	9.8	56.0	

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.393000	42.3	2000.0	9.000	On	N	19.8	5.7	48.0	
0.433500	38.5	2000.0	9.000	On	N	19.8	8.7	47.2	
1.180500	32.5	2000.0	9.000	On	N	19.7	13.5	46.0	
2.040000	33.6	2000.0	9.000	On	L1	19.6	12.4	46.0	
3.498000	37.2	2000.0	9.000	On	L1	19.6	8.8	46.0	
3.988500	36.3	2000.0	9.000	On	L1	19.6	9.7	46.0	

USB Mode, Set.3

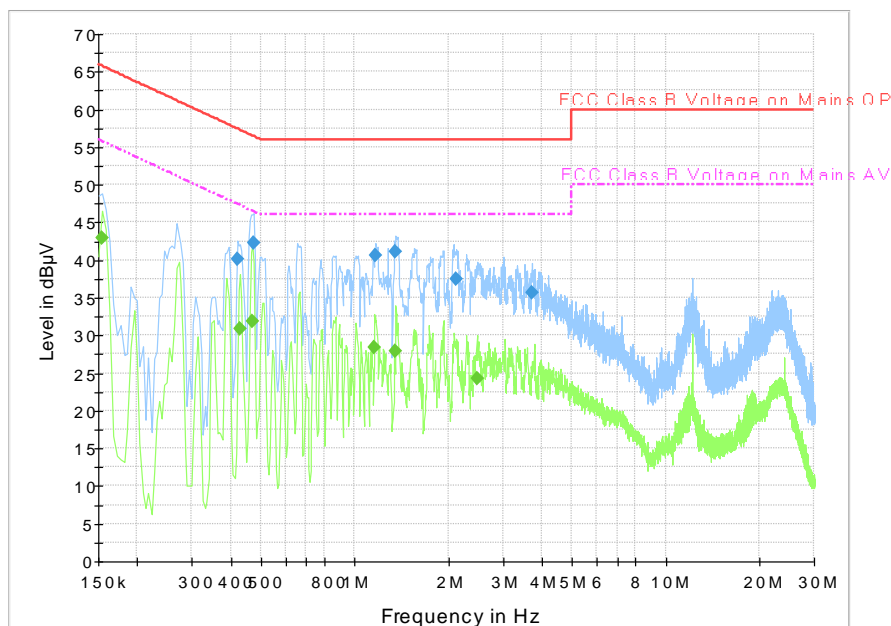


Fig A.10 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.420000	40.1	2000.0	9.000	On	L1	19.8	17.3	57.4	
0.474000	42.2	2000.0	9.000	On	L1	19.8	14.3	56.4	
1.171500	40.6	2000.0	9.000	On	L1	19.7	15.4	56.0	
1.356000	41.2	2000.0	9.000	On	L1	19.6	14.8	56.0	
2.125500	37.4	2000.0	9.000	On	L1	19.6	18.6	56.0	
3.714000	35.7	2000.0	9.000	On	N	19.6	20.3	56.0	

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.154500	42.9	2000.0	9.000	On	L1	29.7	12.8	55.8	
0.429000	30.9	2000.0	9.000	On	L1	19.8	16.4	47.3	
0.469500	31.9	2000.0	9.000	On	N	19.8	14.6	46.5	
1.158000	28.5	2000.0	9.000	On	L1	19.7	17.5	46.0	
1.356000	27.9	2000.0	9.000	On	N	19.6	18.1	46.0	
2.472000	24.3	2000.0	9.000	On	L1	19.6	21.7	46.0	

ANNEX B: Persons involved in this testing

Test Item	Tester
Conducted Continuous Emission	Shi Suolan
Radiated Continuous Emission	Li Zongliang, Lipengfei

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