



TEST REPORT

No. I19Z60742-EMC01

for

TCL Communication Ltd.

Smart Phone

Model Name: 5006G

FCC ID: 2ACCJB109

with

Hardware Version: PIO

Software Version: 9K3I

Issued Date: 2019-05-15



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.

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Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I19Z60742-EMC01	Rev.0	1 st edition	2019-05-13
I19Z60742-EMC01	Rev.1	Modify software version on section 3.2. Add information for headset on page 7. Add note for headset on page 13 and page 19.	2019-05-15

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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

Location: CTTL (huayuan North Road)

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

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2019-05-06

Testing End Date: 2019-05-15

1.5. Signature



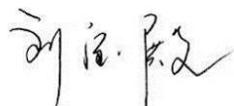
Li Yan

(Prepared this test report)



Zhang Ying

(Reviewed this test report)



Liu Baodian

Deputy Director of the laboratory

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
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Contact Person: Gong Zhizhou
Contact Email: zhizhou.gong@tcl.com
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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address /Post: 7/F, Block F4, TCL Communication Technology Building, 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: 0086-75536612000-81722

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

3.1. About EUT

Description	Smart Phone
Model Name	5006G
FCC ID	2ACCJB109
Extreme vol. Limits	3.6VDC to 4.4VDC (nominal: 3.9VDC)

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
EUT3	015486000200109	PIO	9K3I

*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	/	/
AE2	Charger	/	/
AE3	Charger	/	/
AE4	USB cable	/	/
AE5	Charger	/	NO TEST
AE6	Charger	/	NO TEST
AE7	Charger	/	NO TEST
AE8	Headset	/	/
AE9	Headset	/	/
AE1			
	Model	TLp029C7 (CAC2900005C7)	
	Manufacturer	VEKEN	
	Capacitance	3000mAh	
	Nominal voltage	3.85V	
AE2			
	Model	UC11US (CBA0058AGAC5)	
	Manufacturer	PUAN	
	Length of cable	/	
AE3			
	Model	UC11US (CBA0058AGAC4)	
	Manufacturer	AOHAI	
	Length of cable	/	
AE4			
	Model	CDA3122005C1	
	Manufacturer	JUWEI	
	Length of cable	/	
AE5			

Model	UC11EU (CBA0058AAC5)
Manufacturer	PUAN
Length of cable	/
AE6	
Model	UC11EU (CBA0058AAC4)
Manufacturer	AOHAI
Length of cable	/
AE7	
Model	UC11UK (CBA0058ABAC5)
Manufacturer	PUAN
Length of cable	/
AE8	
Model	CCB0046A10C4
Manufacturer	MEIHAO
Length of cable	/
AE9	
Model	CCB0046A10C1
Manufacturer	JUWEI
Length of cable	/

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

Note1: The USB cables are shielded.

Note2: The Headset is used as an FM antenna.

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT3+AE1+AE2+AE4+AE8/AE9	Charger mode+FM
Set.2	EUT3+AE1+AE3+AE4	Charger mode+MP3+GPS
Set.3	EUT3+AE1+AE4	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 (23meters × 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 (10meters × 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)	A.1	P	CTTL(huayuan North Road)
2	Conducted Emission	15.107(a)	A.2	P	CTTL(huayuan North Road)

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESU26	100235	R&S	2020-03-01	1 year
2	Universal Radio Communication Tester	CMW500	150344	R&S	2019-12-27	1 year
3	Test Receiver	ESCI 3	100344	R&S	2020-02-14	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	VULB9163	9163-483	Schwarzbeck	2019-08-21	1 year
7	EMI Antenna	3115	6914	ETS-Lindgren	2019-11-19	1 year
8	Signal Generator	SMVB100A	260613	R&S	2019-12-27	1 year
9	PC	OPTIPLEX 380	2X1YV2X	DELL	N/A	N/A
10	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
11	Keyboard	L100	CN0RH659658 907ATOI40	DELL	N/A	N/A
12	Mouse	M-UAE119	LZ935220ZRC	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. During the charging mode the FM application is started up. During the USB mode the EUT is keeping on playing MP3 and the GNSS application is started up. 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 (μ 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/BW	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:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

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

Measurement results for Set.1:

Charging Mode + FM /Average detector

Frequency(MHz)	Result(dB μ V/m)	G_{PL} (dB)	G_A (dB/m)	P_{Mea} (dB μ V)	Polarity
17763.133	34.7	-18.5	45.6	7.600	H
17974.500	34.7	-17.7	45.6	6.800	H
17895.733	34.7	-18.5	45.6	7.600	V
17535.333	34.6	-19.2	45.6	8.200	H
17777.300	34.5	-18.5	45.6	7.400	H
17966.000	34.5	-17.7	45.6	6.600	H

Charging Mode + FM /Peak detector

Frequency(MHz)	Result(dB μ V/m)	G_{PL} (dB)	G_A (dB/m)	P_{Mea} (dB μ V)	Polarity
17898.000	46.8	-18.5	45.6	19.700	H
17505.867	46.6	-19.2	45.6	20.200	H
17653.200	46.3	-18.9	45.6	19.600	V
17696.267	46.1	-18.9	45.6	19.400	H
17525.133	46.1	-19.2	45.6	19.700	H
17878.733	46.0	-18.5	45.6	18.900	H

Note: Headset is used as an FM antenna. The measurement results showed here are worst cases of the combinations of different headsets.

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

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
17828.300	34.9	-18.5	45.6	7.800	H
17954.100	34.9	-17.7	45.6	7.000	H
17919.533	34.8	-17.7	45.6	6.900	V
17973.367	34.8	-17.7	45.6	6.900	H
17985.267	34.8	-17.7	45.6	6.900	H
17989.800	34.7	-17.7	45.6	6.800	H

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
17962.033	46.9	-17.7	45.6	19.000	H
17544.967	46.6	-19.2	45.6	20.200	H
17920.667	46.3	-17.7	45.6	18.400	V
17337.000	46.3	-19.5	41.5	24.300	H
17612.967	46.3	-18.9	45.6	19.600	H
17754.633	46.2	-18.5	45.6	19.100	H

Measurement results for Set.3:

USB Mode +MP3+GNSS /Average detector

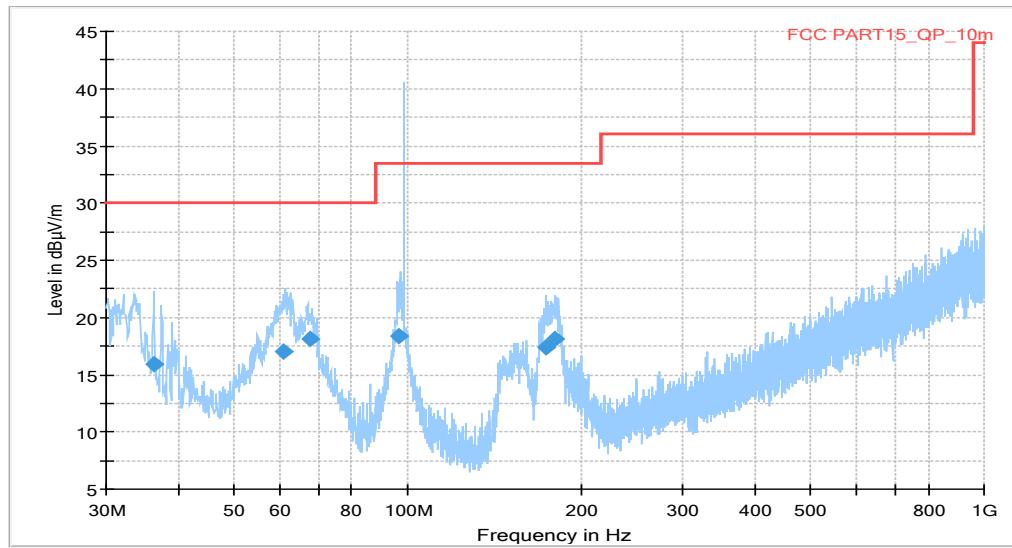
Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
17982.433	43.9	-17.7	45.6	16.000	H
17971.100	43.8	-17.7	45.6	15.900	H
17954.100	43.6	-17.7	45.6	15.700	V
17969.967	43.5	-17.7	45.6	15.600	H
17974.500	43.5	-17.7	45.6	15.600	H
17877.033	43.4	-18.5	45.6	16.300	H

USB Mode +MP3+GNSS /Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
17816.967	54.4	-18.5	45.6	27.300	H
17943.333	54.2	-17.7	45.6	26.300	H
17856.067	54.2	-18.5	45.6	27.100	V
17535.900	54.2	-19.2	45.6	27.800	H
17453.733	54.0	-19.2	41.5	31.700	H
17655.467	54.0	-18.9	45.6	27.300	H

Charging Mode + FM, Set.1

Full Spectrum

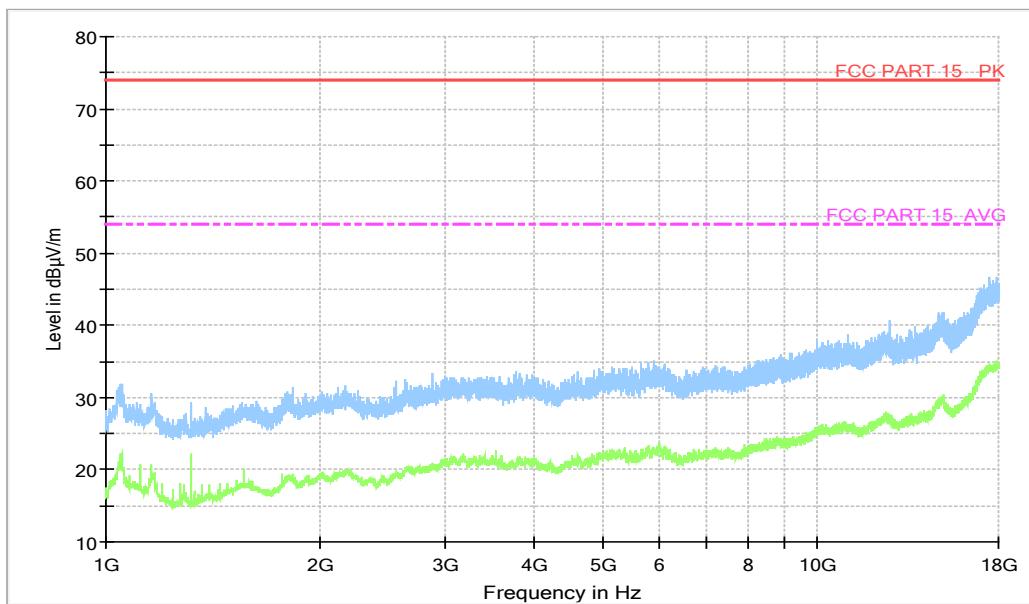

Figure A.1 Radiated Emission from 30MHz to 1GHz

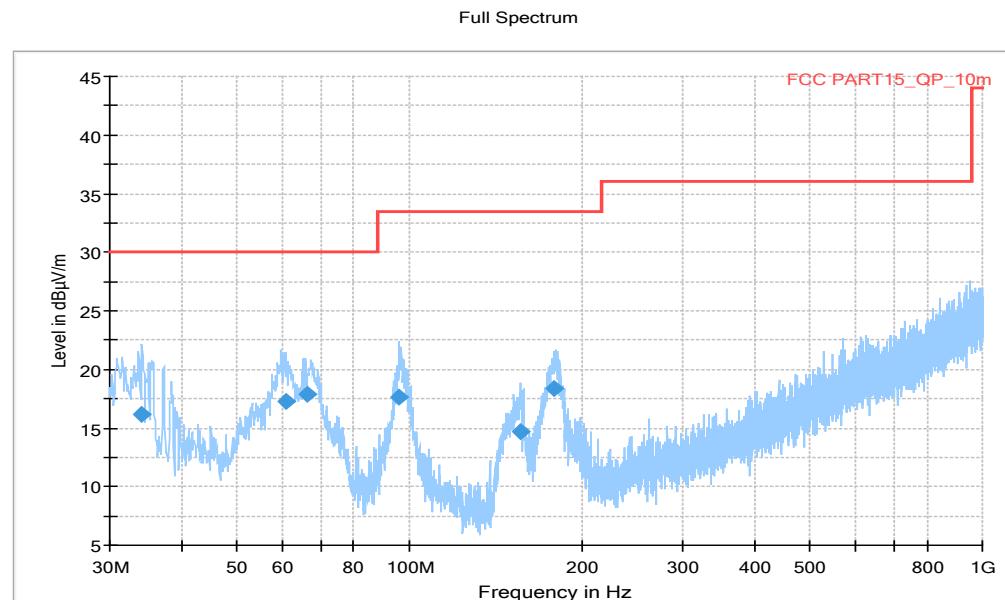
Note: the spike (98MHz) is coming from FM signal source.

Final_Result

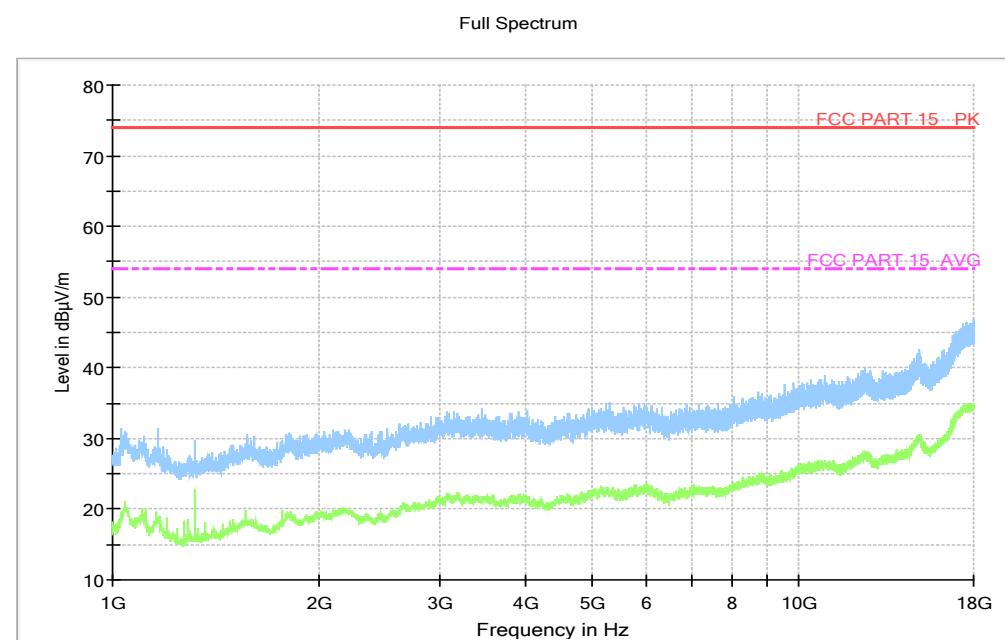
Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
36.365000	15.93	30.00	14.07	1000.0	120.000	113.0	V	199.0
60.791000	16.99	30.00	13.01	1000.0	120.000	194.0	V	30.0
67.594000	18.08	30.00	11.92	1000.0	120.000	206.0	V	152.0
96.667000	18.35	33.50	15.17	1000.0	120.000	125.0	V	30.0
174.13700	17.45	33.50	16.07	1000.0	120.000	125.0	V	-30.0
180.36400	18.15	33.50	15.37	1000.0	120.000	114.0	V	-15.0

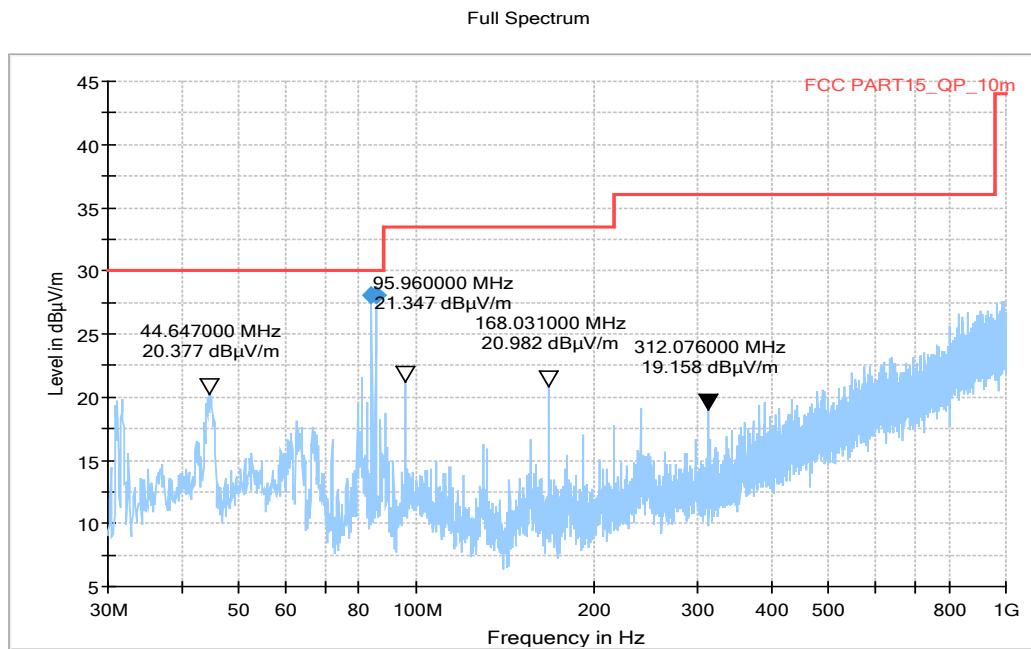
Full Spectrum


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

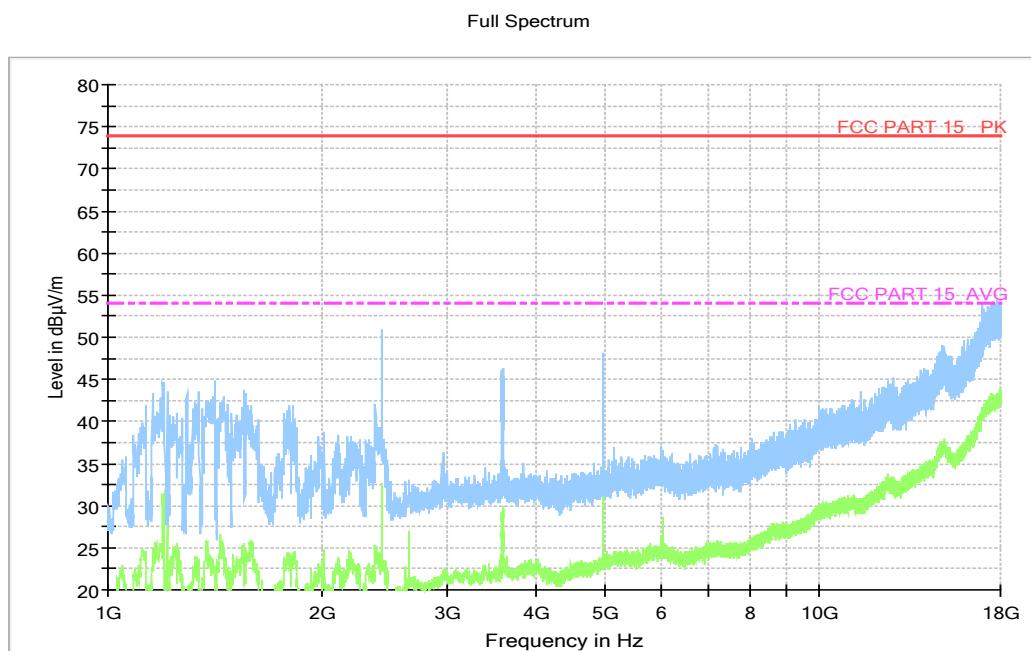
Charging Mode , Set.2

Figure A.3 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)
34.051000	16.21	30.00	13.79	1000.0	120.000	110.0	V	101.0
60.740000	17.30	30.00	12.70	1000.0	120.000	111.0	V	67.0
66.393000	17.90	30.00	12.10	1000.0	120.000	214.0	V	116.0
96.177000	17.58	33.50	15.94	1000.0	120.000	213.0	V	19.0
156.27100	14.64	33.50	18.88	1000.0	120.000	116.0	V	-29.0
178.64600	18.40	33.50	15.12	1000.0	120.000	108.0	V	-26.0


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

USB Mode+MP3 +GSP, Set.3

Figure A.5 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)
84.029000	28.04	30.00	1.96	1000.0	120.000	125.0	V	30.0
85.544000	28.03	30.00	1.97	1000.0	120.000	125.0	V	30.0


Figure 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. During the charging mode the FM application is started up. During the USB mode the EUT is keeping on playing MP3 and the GNSS application is started up. 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 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 +FM, Set.1

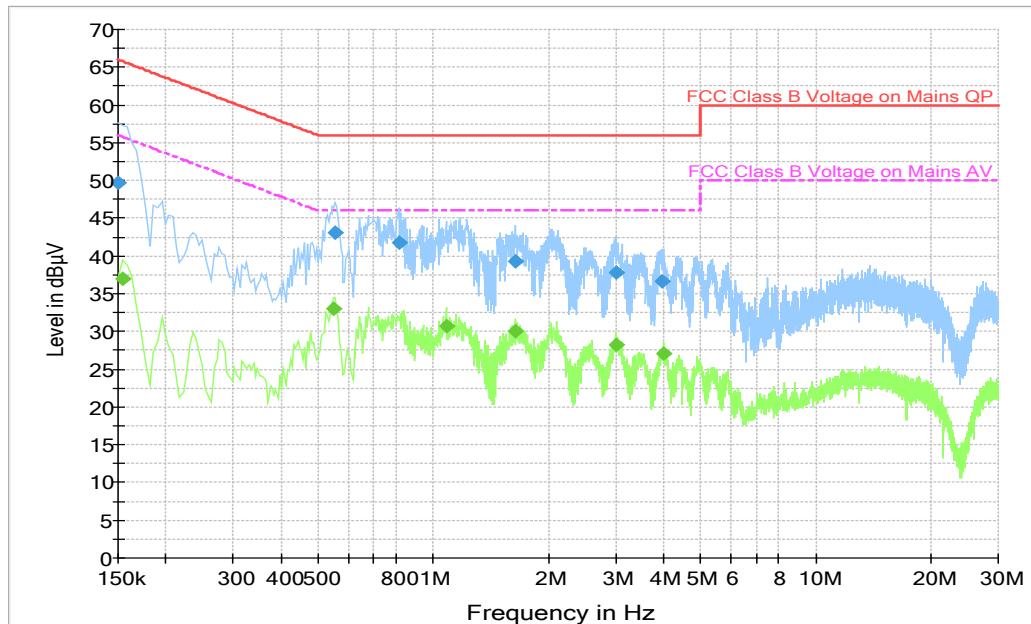


Figure A.7 Conducted Emission

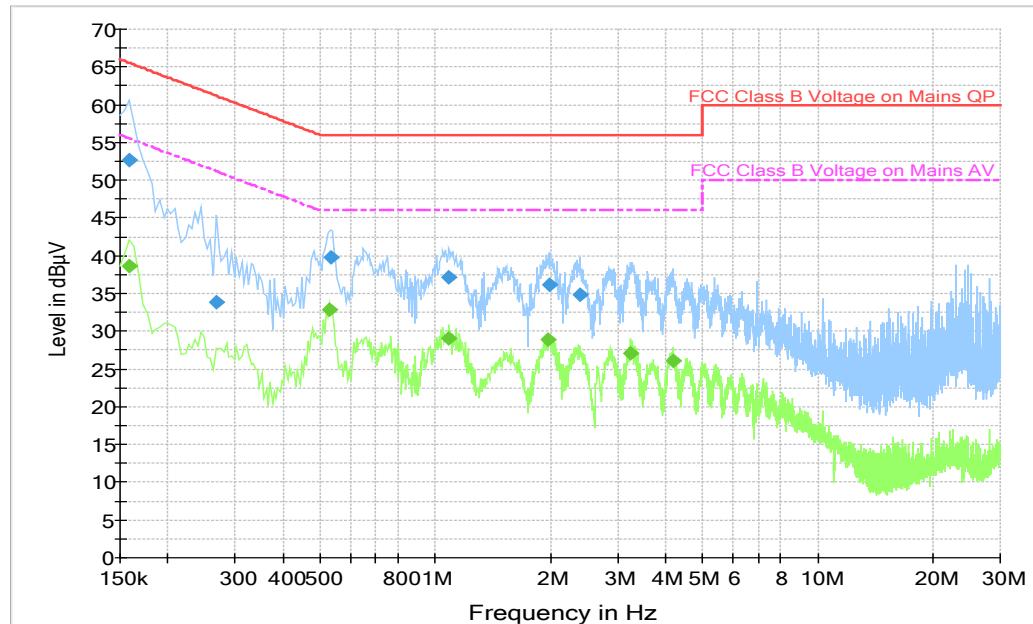
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	49.8	2000.0	9.000	L1	30.7	16.2	66.0
0.555000	43.1	2000.0	9.000	L1	19.8	12.9	56.0
0.811500	41.8	2000.0	9.000	L1	19.7	14.2	56.0
1.639500	39.3	2000.0	9.000	L1	19.6	16.7	56.0
3.007500	37.9	2000.0	9.000	L1	19.6	18.1	56.0
3.975000	36.6	2000.0	9.000	L1	19.6	19.4	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154500	37.0	2000.0	9.000	N	29.6	18.7	55.8
0.550500	33.0	2000.0	9.000	L1	19.8	13.0	46.0
1.081500	30.7	2000.0	9.000	L1	19.7	15.3	46.0
1.639500	30.0	2000.0	9.000	L1	19.6	16.0	46.0
3.016500	28.2	2000.0	9.000	L1	19.6	17.8	46.0
3.997500	27.0	2000.0	9.000	L1	19.6	19.0	46.0

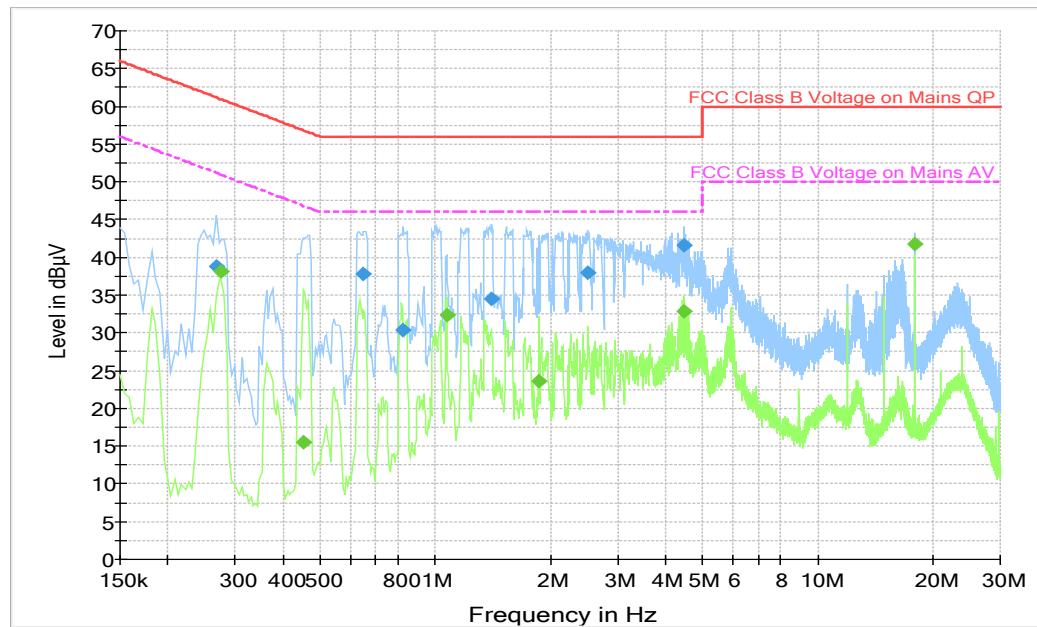
Note: Headset is used as an FM antenna. The measurement results showed here are worst cases of the combinations of different headsets.

Charging Mode, Set.2

Figure 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	52.7	2000.0	9.000	L1	28.7	12.8	65.5
0.267000	33.9	2000.0	9.000	L1	19.8	27.3	61.2
0.532500	39.8	2000.0	9.000	L1	19.8	16.2	56.0
1.086000	37.1	2000.0	9.000	L1	19.7	18.9	56.0
1.995000	36.1	2000.0	9.000	L1	19.6	19.9	56.0
2.395500	34.9	2000.0	9.000	L1	19.6	21.1	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.159000	38.6	2000.0	9.000	L1	28.7	17.0	55.5
0.528000	32.8	2000.0	9.000	L1	19.8	13.2	46.0
1.086000	29.0	2000.0	9.000	L1	19.7	17.0	46.0
1.972500	28.8	2000.0	9.000	L1	19.6	17.2	46.0
3.241500	27.1	2000.0	9.000	L1	19.6	18.9	46.0
4.200000	26.0	2000.0	9.000	L1	19.6	20.0	46.0

USB Mode+MP3+GPS, Set.3

Figure A.9 Conducted Emission
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.267000	38.8	2000.0	9.000	L1	19.8	22.4	61.2
0.649500	37.7	2000.0	9.000	L1	19.8	18.3	56.0
0.825000	30.3	2000.0	9.000	N	19.7	25.7	56.0
1.405500	34.5	2000.0	9.000	N	19.6	21.5	56.0
2.503500	38.0	2000.0	9.000	N	19.6	18.0	56.0
4.479000	41.5	2000.0	9.000	N	19.6	14.5	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.276000	38.2	2000.0	9.000	N	19.8	12.8	50.9
0.451500	15.5	2000.0	9.000	L1	19.8	31.3	46.8
1.072500	32.4	2000.0	9.000	L1	19.7	13.6	46.0
1.864500	23.7	2000.0	9.000	N	19.6	22.3	46.0
4.452000	32.9	2000.0	9.000	L1	19.6	13.1	46.0
17.889000	41.8	2000.0	9.000	N	19.9	8.2	50.0

ANNEX B: Persons involved in this testing

Test Item	Tester
Radiated Emission	Wang Huan
Conducted Emission	Li Jinpeng

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