



TEST REPORT

No. I15Z43150-EMC01

for

TCL Communication Ltd

GSM Quad-band / UMTS Quad-band / LTE 7-band mobile phone

Model Name: 5056A

FCC ID: 2ACCJH044

with

Hardware Version: VC

Software Version: vHAS2

Issued Date: 2016-02-16

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.

Test Laboratory:

FCC 2.948 Listed: No.525429

CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I15Z43150-EMC01	Rev.0	1 st edition	2016-02-16

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1. Test Laboratory

1.1. Testing Location

Location 1: CTTL(huayuan North Road)

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

1.2. Testing Environment

Normal Temperature: 15-35℃

Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2016-01-18

Testing End Date: 2015-01-25

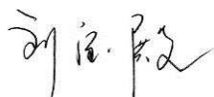
1.4. Signature



Zhang Hui
(Prepared this test report)



Qu Pengfei
(Reviewed this test report)



Liu Baodian
Deputy Director of the laboratory
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2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd
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Pudong Area Shanghai, P.R. China. 201203
City: Shanghai
Postal Code: 201203
Country: P. R. China
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2.2. Manufacturer Information

Company Name: TCL Communication Ltd
Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China. 201203
City: Shanghai
Postal Code: 201203
Country: P. R. China
Telephone: 0086-21-51798260
Fax: 0086-21-61460602

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

3.1. About EUT

Description	GSM Quad-band / UMTS Quad-band / LTE 7-band mobile phone
Model Name	5056A
FCC ID	2ACCJH044
Extreme vol. Limits	3.5VDC to 4.35VDC (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
EUT3	014608000100242	VC	vHAS2

*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	Battery	/	/
AE3	USB Cable	/	16TCT-DC-0047
AE4	USB Cable	/	16TCT-DC-0045
AE5	USB Cable	/	16TCT-DC-0039
AE6	USB Cable	/	16TCT-DC-0031
AE7	Travel charger	/	16TCT-CH-0055
AE8	Travel charger	/	16TCT-CH-0056
AE9	Travel charger		16TCT-CH-0036
AE10	Travel charger		16TCT-CH-0035

AE1

Model	CAC2500035C1
Manufacturer	BYD
Capacitance	2500mAh
Nominal voltage	3.8V

AE2

Model	CAC2500037C2
Manufacturer	SCUD
Capacitance	2500mAh
Nominal voltage	3.8V

AE3, AE4

Model	CDA3122002C1
Manufacturer	Juwei
Length of cable	/

AE5, AE6

Model	CDA3122002C8
Manufacturer	PUAN
Length of cable	/

AE7, AE8

Model	CBA0058AG0C2
Manufacturer	TENPAO
Length of cable	/

AE9, AE10

Model	CBA0058AG0C3
Manufacturer	YINGJU
Length of cable	/

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

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT3 + AE1 + AE3 + AE7	Charging mode
Set.2	EUT3 + AE1 + AE3 + AE9	Charging mode
Set.3	EUT3 + AE1 + AE3	USB mode
Set.4	EUT3 + AE1 + AE5	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	10-1-13 Edition
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low - Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

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

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
Location Column	A/B/C/D	The test is performed in test location A, B, C or D which are described in section 1.1 of this report

Items	Test Name	Clause in FCC rules	Clause in IC rules	Section in this report	Verdict	Test Location
1	Radiated Emission	15.109(a)	Section 5	B.1	P	A
2	Conducted Emission	15.107(a)	Section 5	B.2	P	A

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTUR E	CAL DUE DATE	CALIBRATI ON INTERVAL
1	Test Receiver	ESU26	100235	R&S	2016-03-02	1 year
2	Universal Radio Communication Tester	CMU200	109914	R&S	2016-03-26	1 year
3	Universal Radio Communication Tester	CMW500	143008	R&S	2016-12-09	1 year
4	LISN	ENV216	101200	R&S	2016-07-07	1 year
5	EMI Antenna	VULB 9163	9163-514	Schwarzbeck	2017-11-24	3 years
6	EMI Antenna	3115	6914	ETS-Lindgren	2016-12-15	3 years
7	PC	OPTIPLEX 380	2X1YV2X	DELL	N/A	N/A
8	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
9	Keyboard	L100	CN0RH6596589 07ATOI40	DELL	N/A	N/A
10	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 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.

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)	Result(dB μ V/m)	G_{PL} (dB)	G_A (dB/m)	P_{Mea} (dB μ V)	Polarity
17974.500	51.1	-17.7	45.6	23.200	HORIZONTAL
17954.950	51.0	-17.7	45.6	23.100	HORIZONTAL
17857.200	51.0	-18.5	45.6	23.900	VERTICAL
17997.450	51.0	-17.7	45.6	23.100	VERTICAL
17962.600	50.8	-17.7	45.6	22.900	VERTICAL
17917.550	50.6	-17.7	45.6	22.700	HORIZONTAL

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G_{PL} (dB)	G_A (dB/m)	P_{Mea} (dB μ V)	Polarity
17973.650	61.8	-17.7	45.6	33.900	HORIZONTAL
17892.900	61.8	-18.5	45.6	34.700	VERTICAL
17956.650	61.6	-17.7	45.6	33.700	VERTICAL
17971.950	61.6	-17.7	45.6	33.700	HORIZONTAL
17869.100	61.4	-18.5	45.6	34.300	VERTICAL
17924.350	61.4	-17.7	45.6	33.500	HORIZONTAL

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
17972.800	51.0	-17.7	45.6	23.100	HORIZONTAL
17976.200	50.9	-17.7	45.6	23.000	VERTICAL
17943.900	50.7	-17.7	45.6	22.800	VERTICAL
17973.650	50.7	-17.7	45.6	22.800	HORIZONTAL
17961.750	50.7	-17.7	45.6	22.800	VERTICAL
17815.550	50.7	-18.5	45.6	23.600	VERTICAL

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
17957.500	62.6	-17.7	45.6	34.700	HORIZONTAL
17907.350	62.1	-18.5	45.6	35.000	HORIZONTAL
17961.750	61.4	-17.7	45.6	33.500	VERTICAL
17943.900	61.4	-17.7	45.6	33.500	HORIZONTAL
17852.950	61.3	-18.5	45.6	34.200	VERTICAL
17832.550	61.2	-18.5	45.6	34.100	VERTICAL

Measurement results for Set.3:
USB Mode/Average detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{mea} (dB μ V)	Polarity
17997.450	50.9	-17.7	45.6	23.000	HORIZONTAL
17994.900	50.7	-17.7	45.6	22.800	HORIZONTAL
17843.600	50.7	-18.5	45.6	23.600	VERTICAL
17829.150	50.7	-18.5	45.6	23.600	HORIZONTAL
17897.150	50.6	-18.5	45.6	23.500	VERTICAL
17937.950	50.6	-17.7	45.6	22.700	VERTICAL

USB Mode/ Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{mea} (dB μ V)	Polarity
17609.000	61.3	-18.9	45.6	34.600	VERTICAL
17842.750	61.2	-18.5	45.6	34.100	VERTICAL
17978.750	61.0	-17.7	45.6	33.100	HORIZONTAL
17887.800	60.7	-18.5	45.6	33.600	HORIZONTAL
17999.150	60.6	-17.7	45.6	32.700	VERTICAL
17881.850	60.6	-18.5	45.6	33.500	VERTICAL

Measurement results for Set.4:**USB Mode/Average detector**

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{mea} (dB μ V)	Polarity
17995.750	51.3	-17.7	45.6	23.400	HORIZONTAL
17932.850	50.7	-17.7	45.6	22.800	HORIZONTAL
17983.850	50.6	-17.7	45.6	22.700	VERTICAL
17796.850	50.5	-18.5	45.6	23.400	VERTICAL
17966.850	50.5	-17.7	45.6	22.600	VERTICAL
17770.500	50.5	-18.5	45.6	23.400	VERTICAL

USB Mode/ Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{mea} (dB μ V)	Polarity
17825.750	61.0	-18.5	45.6	33.900	HORIZONTAL
17941.350	60.7	-17.7	45.6	32.800	VERTICAL
17962.600	60.5	-17.7	45.6	32.600	HORIZONTAL
17996.600	60.5	-17.7	45.6	32.600	HORIZONTAL
17776.450	60.5	-18.5	45.6	33.400	VERTICAL
17754.350	60.4	-18.5	45.6	33.300	VERTICAL

Note: The measurement results of Set.1, Set.2, Set.3, Set.4 showed here are worst cases of the combinations of different batteries and USB cables.

Charging Mode, Set.1

Normal RE_30M-1GHz_10m

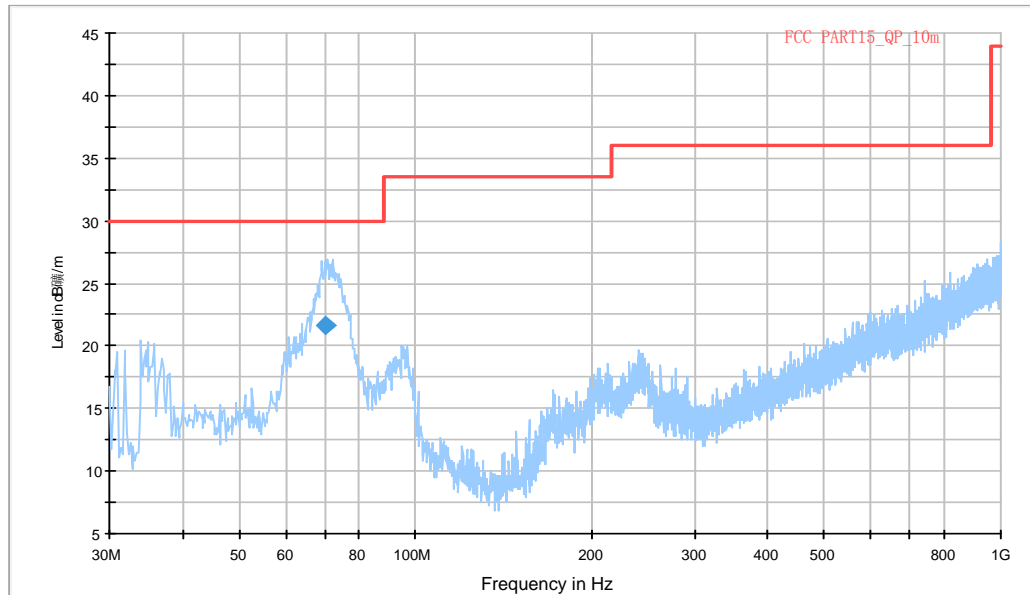


Figure A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
70.417000	21.6	100.0	V	-10.0	-15.4	8.4	30.0

Normal RE_1G-18GHz

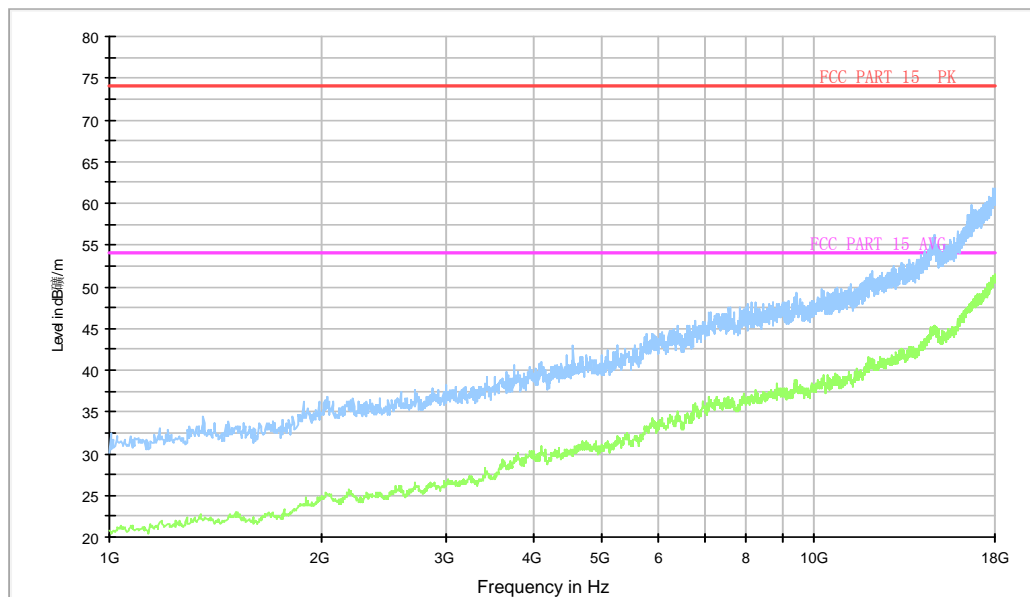


Figure A.2 Radiated Emission from 1GHz to 18GHz

Charging Mode, Set.2

Normal RE_30M-1GHz_10m

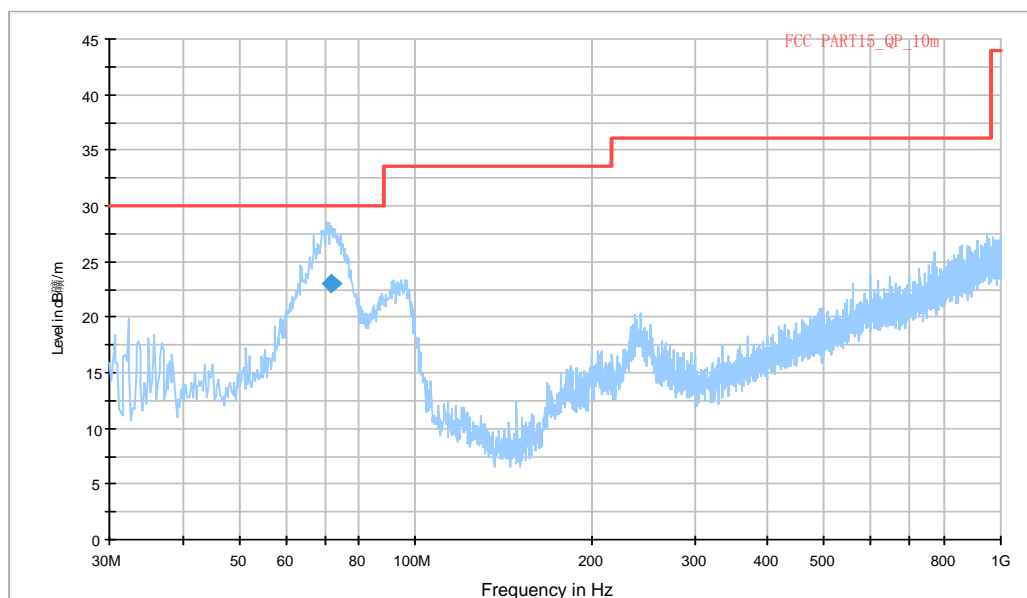


Figure A.3 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
71.679500	23.1	100.0	V	-16.0	-15.7	6.9	30.0

Normal RE_1G-18GHz

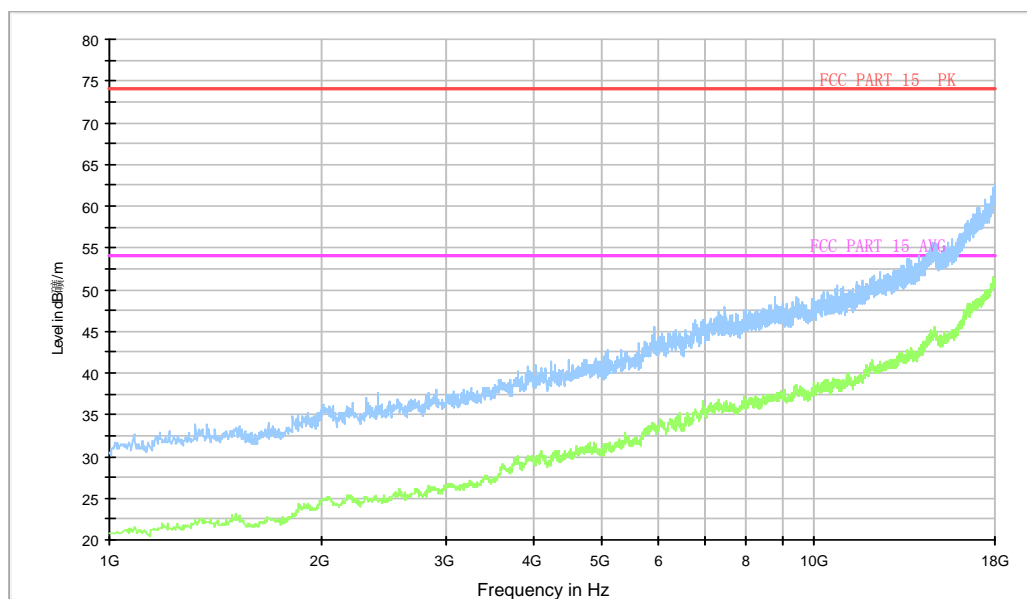


Figure A.4 Radiated Emission from 1GHz to 18GHz

USB Mode, Set.3

Normal RE_30M-1GHz_10m

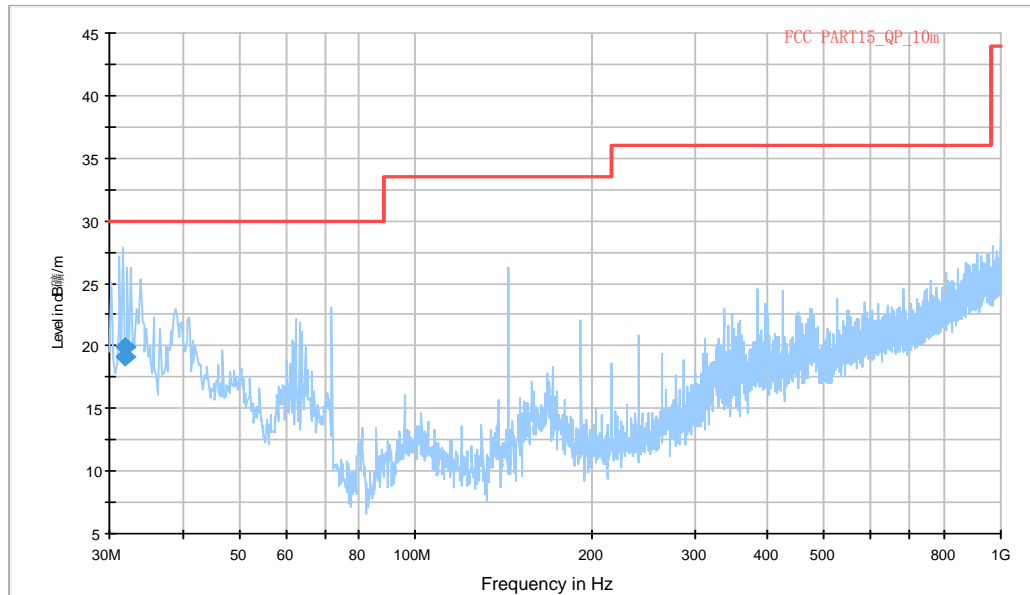


Figure A.5 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
31.806000	19.1	119.0	V	0.0	-13.8	10.9	30.0
31.812500	19.9	100.0	V	80.0	-13.8	10.1	30.0

Normal RE_1G-18GHz

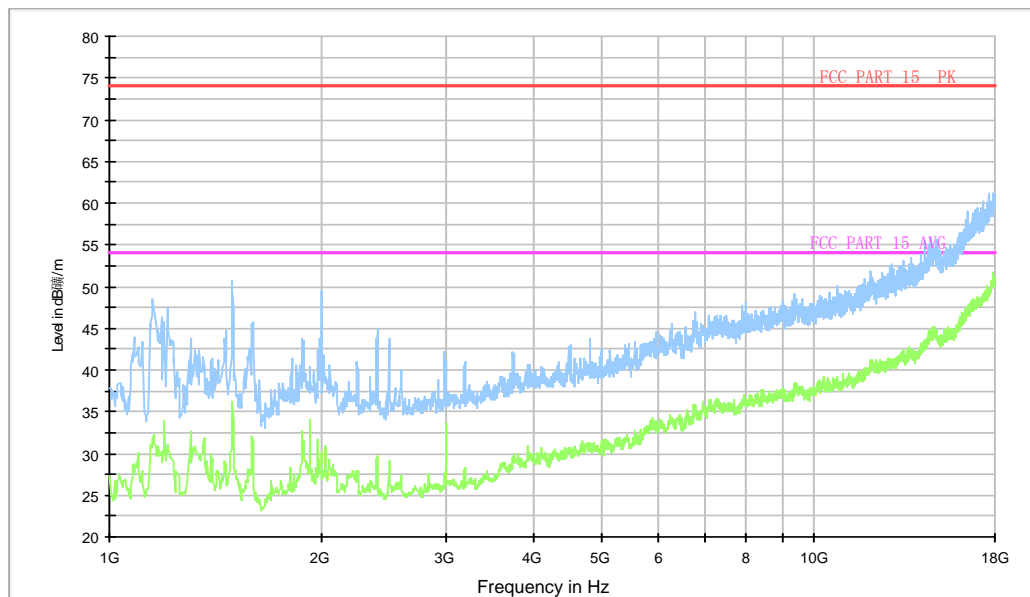


Figure A.6 Radiated Emission from 1GHz to 18GHz

USB Mode, Set.4

Normal RE_30M-1GHz_10m

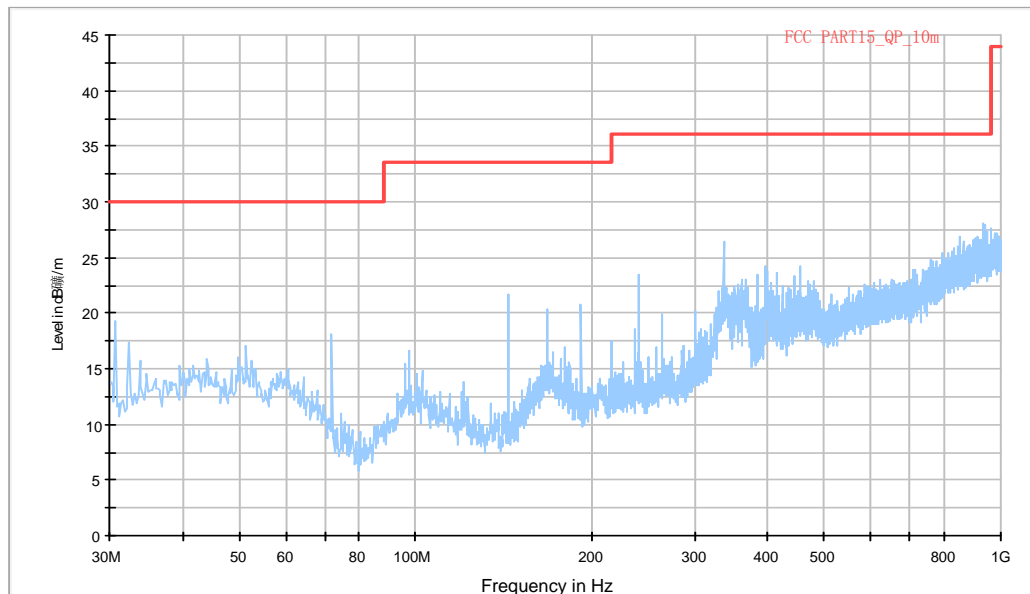


Figure A.7 Radiated Emission from 30MHz to 1GHz

Normal RE_1G-18GHz

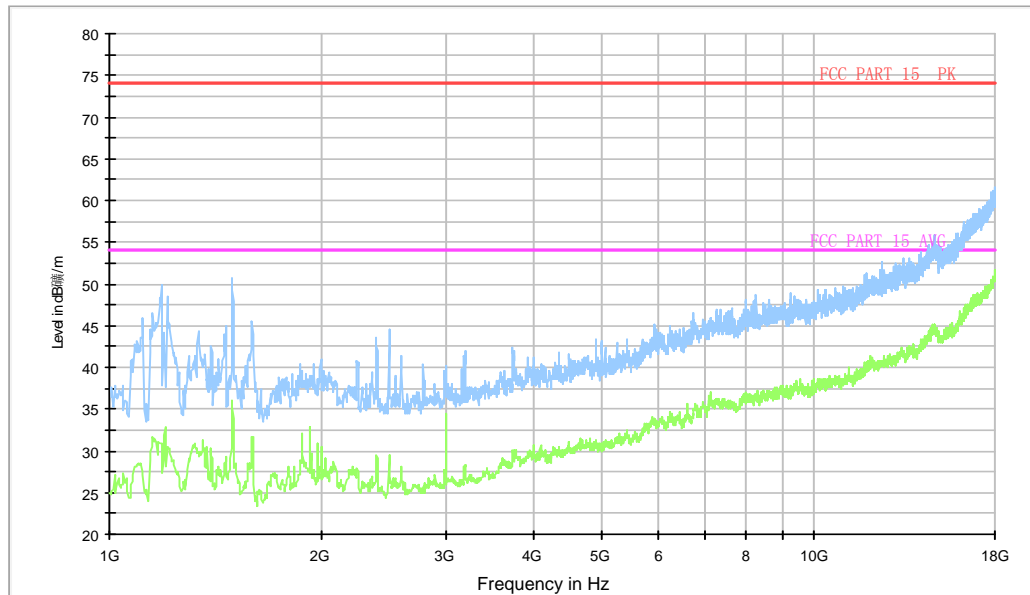


Figure A.8 Radiated Emission from 1GHz to 18GHz

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 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.

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

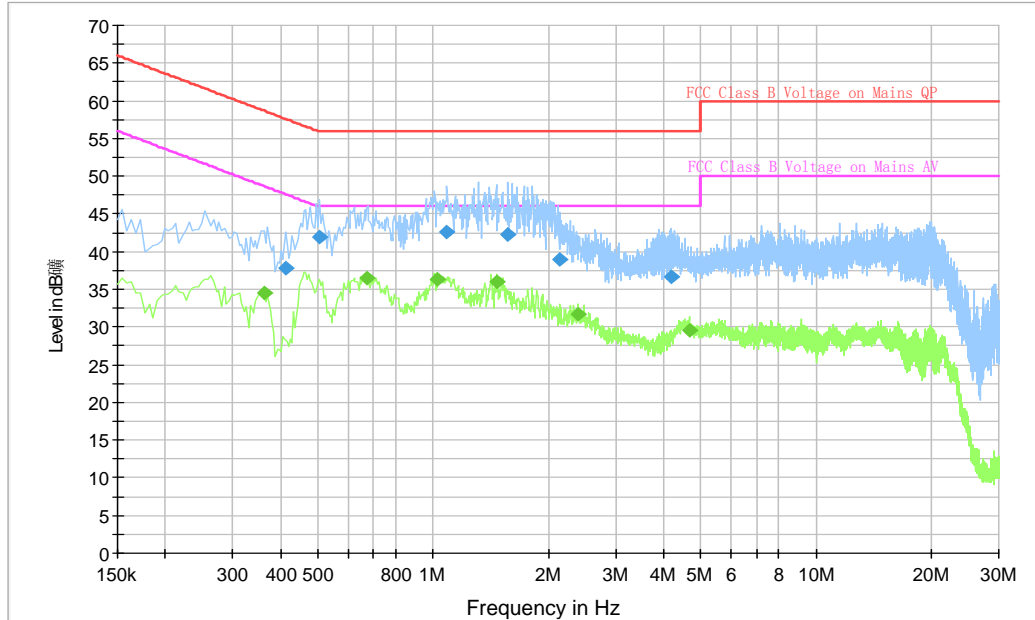


Figure A.9 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.411000	37.8	2000.0	9.000	On	L1	19.9	19.8	57.6
0.505500	42.0	2000.0	9.000	On	N	19.9	14.0	56.0
1.086000	42.6	2000.0	9.000	On	N	19.7	13.4	56.0
1.572000	42.2	2000.0	9.000	On	L1	19.7	13.8	56.0
2.148000	38.9	2000.0	9.000	On	L1	19.5	17.1	56.0
4.209000	36.6	2000.0	9.000	On	L1	19.6	19.4	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.361500	34.5	2000.0	9.000	On	N	19.8	14.2	48.7
0.672000	36.4	2000.0	9.000	On	N	19.8	9.6	46.0
1.023000	36.2	2000.0	9.000	On	N	19.7	9.8	46.0
1.468500	36.0	2000.0	9.000	On	N	19.7	10.0	46.0
2.391000	31.6	2000.0	9.000	On	N	19.2	14.4	46.0
4.659000	29.6	2000.0	9.000	On	N	19.6	16.4	46.0

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

Charging Mode, Set.2

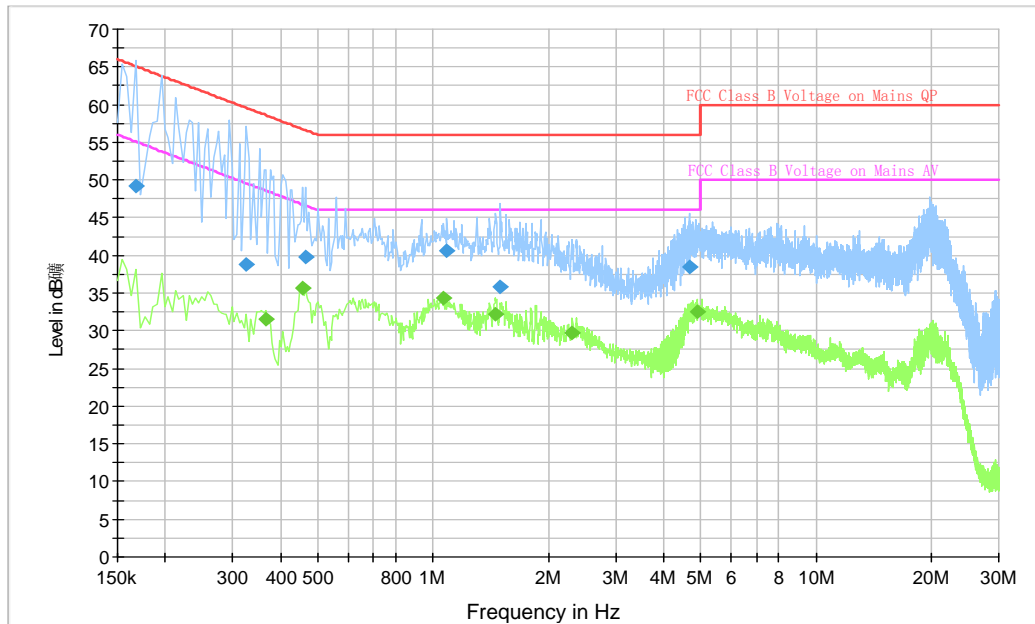


Figure A.10 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.168000	49.2	2000.0	9.000	On	L1	19.8	15.9	65.1
0.325500	38.7	2000.0	9.000	On	L1	19.8	20.8	59.6
0.465000	39.8	2000.0	9.000	On	L1	19.9	16.8	56.6
1.086000	40.6	2000.0	9.000	On	L1	19.7	15.4	56.0
1.500000	35.9	2000.0	9.000	On	N	19.7	20.1	56.0
4.659000	38.4	2000.0	9.000	On	L1	19.6	17.6	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.366000	31.5	2000.0	9.000	On	L1	19.8	17.1	48.6
0.456000	35.7	2000.0	9.000	On	L1	19.9	11.1	46.8
1.068000	34.3	2000.0	9.000	On	L1	19.7	11.7	46.0
1.455000	32.2	2000.0	9.000	On	L1	19.7	13.8	46.0
2.314500	29.7	2000.0	9.000	On	L1	19.3	16.3	46.0
4.879500	32.6	2000.0	9.000	On	L1	19.6	13.4	46.0

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

USB Mode, Set.3

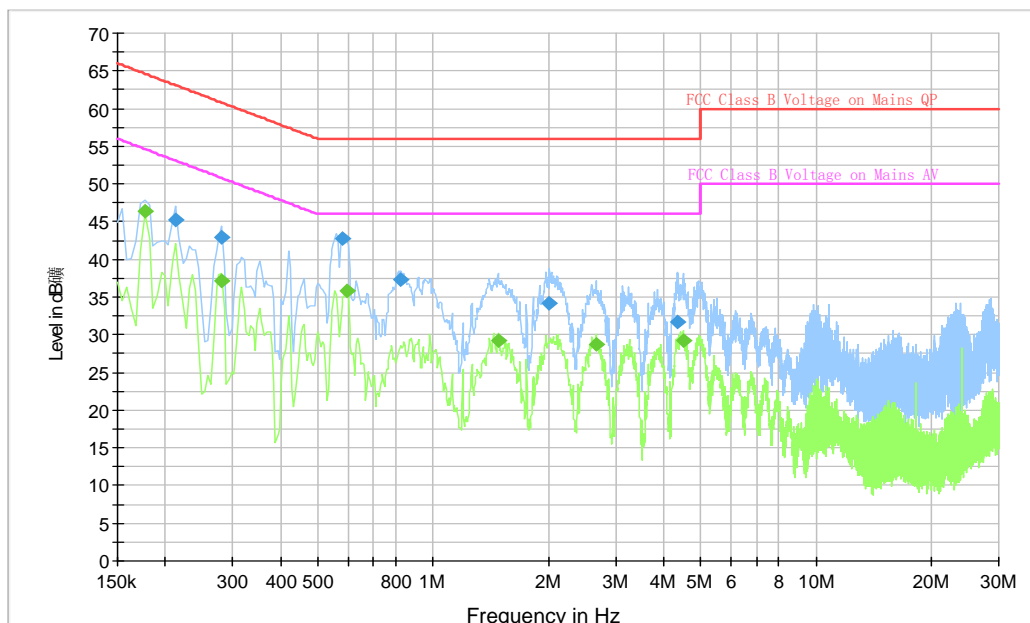


Figure A.11 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.213000	45.2	2000.0	9.000	On	N	19.8	17.8	63.1
0.280500	42.9	2000.0	9.000	On	N	19.8	17.9	60.8
0.582000	42.7	2000.0	9.000	On	L1	19.9	13.3	56.0
0.825000	37.3	2000.0	9.000	On	N	19.8	18.7	56.0
2.013000	34.2	2000.0	9.000	On	L1	19.7	21.8	56.0
4.366500	31.7	2000.0	9.000	On	N	19.6	24.3	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.177000	46.4	2000.0	9.000	On	N	19.8	8.2	54.6
0.280500	37.1	2000.0	9.000	On	N	19.8	13.7	50.8
0.595500	35.9	2000.0	9.000	On	L1	19.8	10.1	46.0
1.477500	29.3	2000.0	9.000	On	N	19.7	16.7	46.0
2.665500	28.7	2000.0	9.000	On	L1	19.4	17.3	46.0
4.492500	29.2	2000.0	9.000	On	L1	19.6	16.8	46.0

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

USB Mode, Set.4

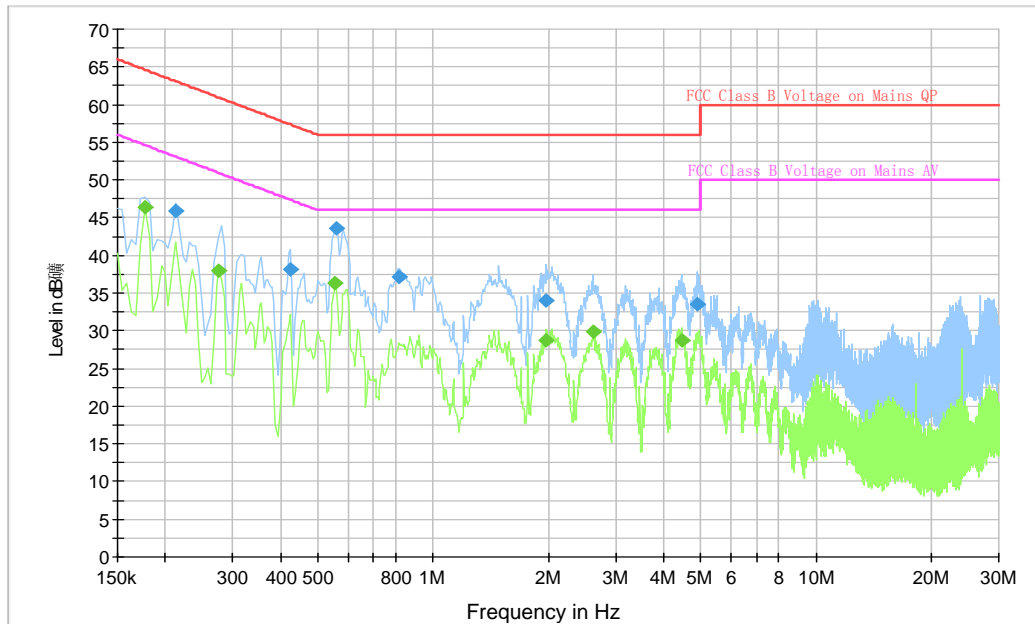


Figure A.12 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.213000	45.9	2000.0	9.000	On	N	19.8	17.2	63.1
0.424500	38.1	2000.0	9.000	On	L1	19.9	19.2	57.4
0.559500	43.5	2000.0	9.000	On	L1	19.9	12.5	56.0
0.811500	37.2	2000.0	9.000	On	N	19.8	18.8	56.0
1.977000	34.0	2000.0	9.000	On	L1	19.7	22.0	56.0
4.915500	33.5	2000.0	9.000	On	L1	19.6	22.5	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time(ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.177000	46.4	2000.0	9.000	On	N	19.8	8.2	54.6
0.276000	38.0	2000.0	9.000	On	N	19.8	12.9	50.9
0.555000	36.4	2000.0	9.000	On	N	19.9	9.6	46.0
1.977000	28.8	2000.0	9.000	On	L1	19.7	17.2	46.0
2.616000	29.9	2000.0	9.000	On	L1	19.2	16.1	46.0
4.456500	28.8	2000.0	9.000	On	N	19.6	17.2	46.0

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

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