

# TEST REPORT No. I16Z40408-EMC01

for

## **TCL Communication Ltd**

# GSM Quad-band / UMTS Quad-band / LTE 6-band mobile phone

Model Name: 5051A

FCC ID: 2ACCJB047

with

**Hardware Version: PIO** 

**Software Version: PAS1** 

Issued Date: 2016-04-05

#### 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

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# **REPORT HISTORY**

Report Number	Revision	Description	Issue Date
I16Z40408-EMC01	Rev.0	1 <sup>st</sup> edition	2016-04-05



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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°C Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2016-03-08 Testing End Date: 2016-03-29

1.4. Signature

Zhang Hui

(Prepared this test report)

Qu Pengfei

(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

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
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Contact Email zhizhou.gong@tcl.com
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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: 0086-21-31363544 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 6-band mobile phone

Model Name 5051A FCC ID 2ACCJB047

Extreme vol. Limits 3.6VDC 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

 EUT ID\*
 SN or IMEI
 HW Version
 SW Version

 EUT3
 014624000100363
 PIO
 PAS1

## 3.3. Internal Identification of AE used during the test

AE ID*	Description	SN	Remarks
AE1	Battery	/	16TCT-BA-0218
AE2	Battery	/	/
AE3	USB Cable	/	16TCT-DC-0136
AE4	USB Cable	/	16TCT-DC-0137
AE5	Travel charger	/	16TCT-BA-0141
AE6	Travel charger	/	16TCT-BA-0136
AE7	Travel charger	/	16TCT-BA-0187
AE8	Travel charger	/	16TCT-BA-0039

#### AE1

Model TLp025H7 (Li-polymer)

Manufacturer Ningbo Veken Battery Co.,LTD.

Capacitance 2500mAh Nominal voltage 3.85V

#### AE2

Model TLp025HF(Li-polymer)

Manufacturer Jiade Energy Technology(Zhuhai) Co.,Ltd.

Capacitance 2500mAh Nominal voltage 3.85V

<sup>\*</sup>EUT ID: is used to identify the test sample in the lab internally.



AE3, AE4

Model LQ-0350002-04

Manufacturer Xiamen Li Qi Electronics Co.,Ltd.

Length of cable 103cm

AE5, AE6

Model CBA0058AG0C2

Manufacturer TENPAO

Length of cable /

AE7, AE8

Model CBA0058AG0C3

Manufacturer Yingju

Length of cable /

Note: The USB cables are shielded.

# 3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT3 + AE1 + AE3 + AE5	Charger
Set.2	EUT3 + AE1 + AE3 + AE7	Charger
Set.3	EUT3 + AE1 + AE3	USB

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



# 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	10-1-15
		Edition
ANSI C63.4	Methods of Measurement of Radio-Noise	2014
	Emissions from Low - Voltage Electrical and	
	Electronic Equipment in the Range of 9 kHz to 40	
	GHz	



# 5. LABORATORY ENVIRONMENT

**Semi-anechoic chamber SAC-1** (23 meters $\times$ 17meters $\times$ 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 <sub>VSWR</sub> )	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 NA		Pass
		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	Р	Α
2	Conducted Emission	15.107(a)	Section 5	B.2	Р	Α



# 7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTUR E	CAL DUE DATE	CALIBRATI ON INTERVAL
1	Test Receiver	ESU26	100235	R&S	2017-03-02	1 year
2	Universal Radio Communication Tester	CMW500	143008	R&S	2016-12-09	1 year
3	LISN	ENV216	101200	R&S	2016-07-07	1 year
4	EMI Antenna	VULB 9163	9163-514	Schwarzbeck	2017-11-24	3 years
5	EMI Antenna	3115	6914	ETS-Lindgren	2016-12-15	3 years
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 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	Field strength limit (μV/m)				
(MHz)	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:

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

Where

G<sub>A</sub>: Antenna factor of receive antenna

G<sub>PL</sub>: Path Loss

P<sub>Mea</sub>: Measurement result on receiver.

Measurement uncertainty (worst case): U = 4.3 dB, k=2.

#### Measurement results for Set.1:

#### **Charging Mode/Average detector**

Frequency(MHz)	Result(dBμV/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	$P_{Mea}(dB\mu V)$	Polarity	
17991.500	50.7	-17.7	-17.7 45.6		VERTICAL	
17971.100	50.3	-17.7	45.6	22.400	HORIZONTAL	
17938.800	50.3	-17.7	45.6	22.400	HORIZONTAL	
17773.050	50.3	-18.5	45.6	23.200	HORIZONTAL	
17980.450	50.2	-17.7	45.6	22.300	VERTICAL	
17932.850	50.2	-17.7	45.6	22.300	HORIZONTAL	

#### **Charging Mode/Peak detector**

Frequency(MHz)	Result(dBμV/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>Mea</sub> (dBµV)	Polarity			
17971.950	971.950 60.7		45.6	32.800	HORIZONTAL			
17956.650	59.8	-17.7	45.6	31.900	HORIZONTAL			
17817.250	59.7	-18.5	45.6	32.600	VERTICAL			
17797.700	59.5	-18.5	45.6	32.400	HORIZONTAL			
17664.250	59.4	-18.9	45.6	32.700	HORIZONTAL			
17997.450	59.4	-17.7	45.6	31.500	VERTICAL			



## Measurement results for Set.2:

## **Charging Mode/Average detector**

Frequency(MHz)	Result(dBμV/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>Mea</sub> (dBµV)	Polarity	
17868.250	8.250 50.6		45.6	23.500	HORIZONTAL	
17915.850	50.6	-17.7	45.6	22.700	HORIZONTAL	
17874.200	50.4	-18.5	45.6	23.300	VERTICAL	
17925.200	50.3	-17.7	45.6	22.400	HORIZONTAL	
17974.500	50.2	-17.7	45.6	22.300	VERTICAL	
17888.650	50.2	-18.5	45.6	23.100	HORIZONTAL	

## **Charging Mode/Peak detector**

Frequency(MHz)	Result(dBμV/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>Mea</sub> (dBµV)	Polarity	
17879.300	60.2	-18.5	45.6	33.100	HORIZONTAL	
17943.050	60.1	-17.7	45.6	32.200	HORIZONTAL	
17830.850	60.0	-18.5	45.6	32.900	VERTICAL	
17908.200	59.9	-18.5	45.6	32.800	HORIZONTAL	
17862.300	59.9	-18.5	45.6	32.800	VERTICAL	
17920.100	59.7	-17.7	45.6	31.800	VERTICAL	

#### **Measurement results for Set.3**:

## **USB Mode/Average detector**

Frequency(MHz)	Result(dBµV/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>mea</sub> (dBµV)	Polarity
17945.600	51.0	-17.7 45.6		23.100	HORIZONTAL
17882.700	50.8	-18.5	45.6	23.700	HORIZONTAL
17966.850	50.6	-17.7	45.6	22.700	HORIZONTAL
17880.150	50.6	-18.5	45.6	23.500	VERTICAL
17914.150	50.6	-18.5	45.6	23.500	VERTICAL
17968.550	50.5	-17.7	45.6	22.600	HORIZONTAL

#### **USB Mode/ Peak detector**

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Frequency(MHz)	Result(dBµV/m)	G <sub>PL</sub> (dB)	G <sub>A</sub> (dB/m)	P <sub>mea</sub> (dBµV)	Polarity			
17950.700	62.3	-17.7	45.6	34.400	VERTICAL			
17521.450	61.2	-19.2	45.6	34.800	HORIZONTAL			
17931.150	61.2	-17.7	45.6	33.300	HORIZONTAL			
17927.750	61.0	-17.7	45.6	33.100	HORIZONTAL			
17994.050	61.0	-17.7	45.6	33.100	VERTICAL			
17985.550	61.0	-17.7	45.6	33.100	HORIZONTAL			

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



## **Charging Mode, Set.1**



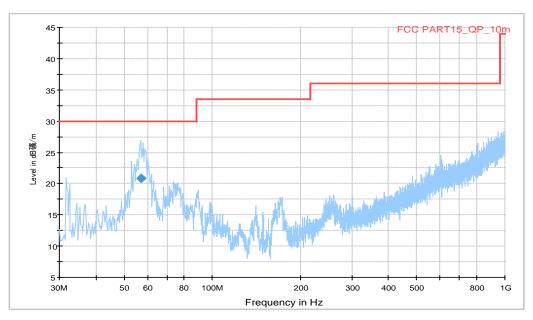


Figure A.1 Radiated Emission from 30MHz to 1GHz

## **Final Result 1**

Frequency	QuasiPeak	Height	Polarization	Azimuth	Corr.	Margin	Limit
(MHz)	(dBµV/m)	(cm)	1 Glarization	(deg)	(dB)	(dB)	(dBµV/m)
57.266000	20.8	125.0	V	61.0	-12.0	9.2	30.0

#### Normal RE\_1G-18GHz

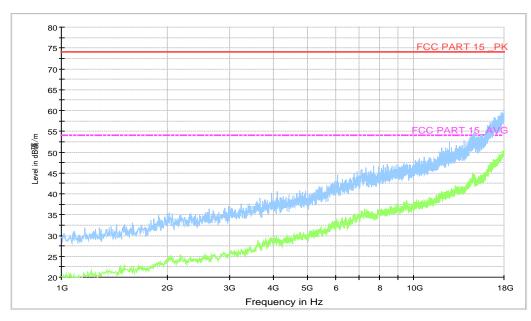


Figure A.2 Radiated Emission from 1GHz to 18GHz



#### **Charging Mode, Set.2**



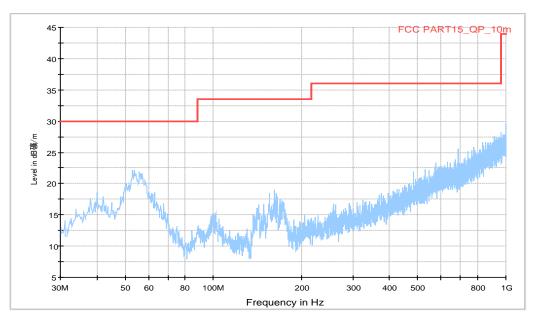
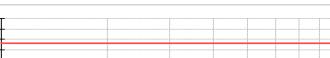


Figure A.3 Radiated Emission from 30MHz to 1GHz

Normal RE\_1G-18GHz



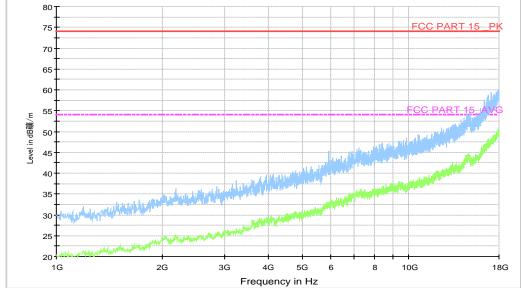
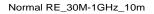


Figure A.4 Radiated Emission from 1GHz to 18GHz



## **USB Mode, Set.3**



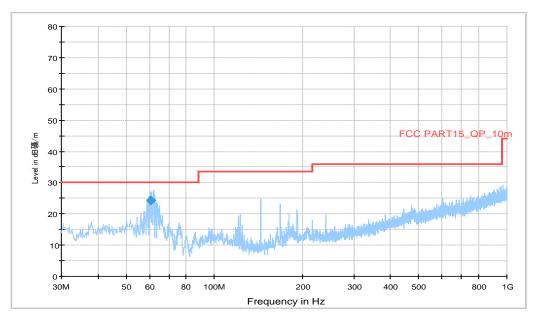


Figure A.5 Radiated Emission from 30MHz to 1GHz

## **Final Result 1**

Frequency	QuasiPeak	Height	Polarization	Azimuth	Corr.	Margin	Limit
(MHz)	(dBµV/m)	(cm)		(deg)	(dB)	(dB)	(dBµV/m)
60.537000	24.2	100.0	V	265.0	-12.3	5.8	30.0

#### Normal RE\_1G-18GHz

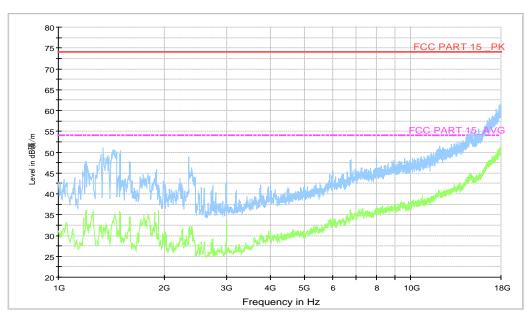


Figure A.6 Radiated Emission from 1GHz to 18GHz



# 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. 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 (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

<u> </u>					
Voltage (V)	Frequency (Hz)				
120	60				

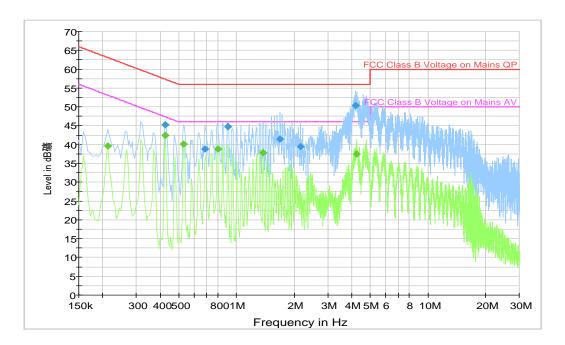
RBW/IF bandwidth	Sweep Time(s)
9kHz	1



#### A.2.5 Measurement Results

Measurement uncertainty: *U*= 2.9 dB, *k*=2.

## **Charging Mode, Set.1**



**Figure A.7 Conducted Emission** 

## **Final Result 1**

Frequency	QuasiPeak	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.424500	45.2	2000.0	9.000	On	L1	19.9	12.1	57.4
0.685500	38.9	2000.0	9.000	On	N	19.8	17.2	56.0
0.901500	44.7	2000.0	9.000	On	L1	19.8	11.3	56.0
1.684500	41.5	2000.0	9.000	On	N	19.7	14.5	56.0
2.157000	39.4	2000.0	9.000	On	N	19.4	16.6	56.0
4.209000	50.4	2000.0	9.000	On	L1	19.6	5.6	56.0

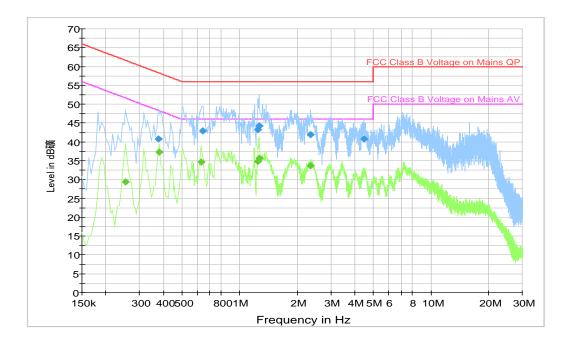
# **Final Result 2**

Frequency	CAverage	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.213000	39.6	2000.0	9.000	On	L1	19.8	13.5	53.1
0.424500	42.4	2000.0	9.000	On	L1	19.9	5.0	47.4
0.528000	40.1	2000.0	9.000	On	L1	19.9	5.9	46.0
0.798000	38.8	2000.0	9.000	On	L1	19.8	7.2	46.0
1.378500	37.8	2000.0	9.000	On	L1	19.7	8.2	46.0
4.236000	37.5	2000.0	9.000	On	L1	19.6	8.5	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.8 Conducted Emission** 

## **Final Result 1**

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Frequency	QuasiPeak	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.375000	40.8	2000.0	9.000	On	L1	19.9	17.6	58.4
0.640500	42.9	2000.0	9.000	On	L1	19.8	13.1	56.0
1.248000	43.3	2000.0	9.000	On	L1	19.7	12.7	56.0
1.266000	44.3	2000.0	9.000	On	L1	19.7	11.7	56.0
2.355000	41.9	2000.0	9.000	On	L1	19.2	14.1	56.0
4.474500	40.8	2000.0	9.000	On	L1	19.6	15.2	56.0
	Frequency (MHz) 0.375000 0.640500 1.248000 1.266000 2.355000	Frequency (dBµV) 0.375000 40.8 0.640500 42.9 1.248000 43.3 1.266000 44.3 2.355000 41.9	Frequency (MHz)         QuasiPeak (dBμV)         Meas. Time(ms)           0.375000         40.8         2000.0           0.640500         42.9         2000.0           1.248000         43.3         2000.0           1.266000         44.3         2000.0           2.355000         41.9         2000.0	Frequency (MHz)         QuasiPeak (dBμV)         Meas. Time(ms)         Bandwidth (kHz)           0.375000         40.8         2000.0         9.000           0.640500         42.9         2000.0         9.000           1.248000         43.3         2000.0         9.000           1.266000         44.3         2000.0         9.000           2.355000         41.9         2000.0         9.000	Frequency (MHz)         QuasiPeak (dBμV)         Meas. Time(ms)         Bandwidth (kHz)         Filter (kHz)           0.375000         40.8         2000.0         9.000         On           0.640500         42.9         2000.0         9.000         On           1.248000         43.3         2000.0         9.000         On           1.266000         44.3         2000.0         9.000         On           2.355000         41.9         2000.0         9.000         On	Frequency (MHz)         QuasiPeak (dBμV)         Meas. Time(ms)         Bandwidth (kHz)         Filter Line           0.375000         40.8         2000.0         9.000         On L1           0.640500         42.9         2000.0         9.000         On L1           1.248000         43.3         2000.0         9.000         On L1           1.266000         44.3         2000.0         9.000         On L1           2.355000         41.9         2000.0         9.000         On L1	Frequency (MHz)         QuasiPeak (dBμV)         Meas. Time(ms)         Bandwidth (kHz)         Filter (dB)         Line (dB)           0.375000         40.8         2000.0         9.000         On L1         19.9           0.640500         42.9         2000.0         9.000         On L1         19.8           1.248000         43.3         2000.0         9.000         On L1         19.7           1.266000         44.3         2000.0         9.000         On L1         19.7           2.355000         41.9         2000.0         9.000         On L1         19.2	Frequency (MHz)         QuasiPeak (dBμV)         Meas. Time(ms)         Bandwidth (kHz)         Filter (dB)         Line (dB)         Corr. (dB)         Margin (dB)           0.375000         40.8         2000.0         9.000         On L1         19.9         17.6           0.640500         42.9         2000.0         9.000         On L1         19.8         13.1           1.248000         43.3         2000.0         9.000         On L1         19.7         12.7           1.266000         44.3         2000.0         9.000         On L1         19.7         11.7           2.355000         41.9         2000.0         9.000         On L1         19.2         14.1

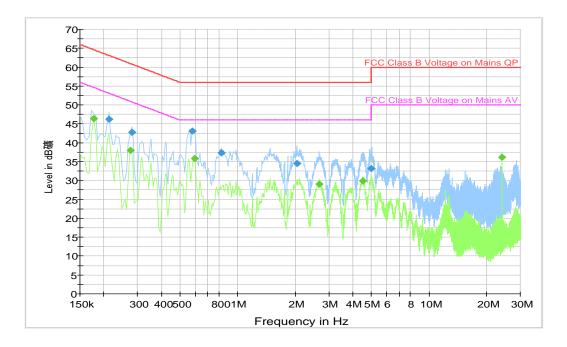
# **Final Result 2**

Frequency	CAverage	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.253500	29.4	2000.0	9.000	On	L1	19.8	22.3	51.6
0.379500	37.2	2000.0	9.000	On	L1	19.9	11.1	48.3
0.631500	34.6	2000.0	9.000	On	L1	19.8	11.4	46.0
1.243500	34.8	2000.0	9.000	On	L1	19.7	11.2	46.0
1.266000	35.7	2000.0	9.000	On	L1	19.7	10.3	46.0
2.337000	33.8	2000.0	9.000	On	L1	19.3	12.2	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.9 Conducted Emission** 

## **Final Result 1**

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Frequency	QuasiPeak	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.213000	46.2	2000.0	9.000	On	N	19.8	16.9	63.1
0.280500	42.7	2000.0	9.000	On	N	19.8	18.1	60.8
0.582000	43.1	2000.0	9.000	On	L1	19.9	12.9	56.0
0.825000	37.3	2000.0	9.000	On	N	19.8	18.7	56.0
2.035500	34.6	2000.0	9.000	On	L1	19.7	21.4	56.0
4.978500	33.1	2000.0	9.000	On	L1	19.6	22.9	56.0

# **Final Result 2**

Frequency	CAverage	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time(ms)	(kHz)			(dB)	(dB)	(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
0.595500	35.9	2000.0	9.000	On	L1	19.8	10.1	46.0
2.665500	29.1	2000.0	9.000	On	L1	19.4	16.9	46.0
4.492500	29.9	2000.0	9.000	On	L1	19.6	16.1	46.0
23.995500	36.2	2000.0	9.000	On	N	20.1	13.8	50.0

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

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