

TEST REPORT No. I18Z60718-EMC01

for

TCL Communication Ltd.

GSM Quad band/UMTS 5 Band/LTE 12 Band Mobile phone

Model Name: 5060A

FCC ID: 2ACCJH090

with

Hardware Version: PIO

Software Version: v1B53

Issued Date: 2018-06-13



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
I18Z60718-EMC01	Rev.0	1 st edition	2018-06-13



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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. China

100191

CTTL (BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology Development

Area, Beijing, P. R. China 100176

1.2. Testing Environment

Normal Temperature: 15-35°C Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2018-05-22 Testing End Date: 2018-06-07

1.4. Signature

Li Yan

(Prepared this test report)

狄

颖

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.

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: Gong Zhizhou

Contact Email zhizhou.gong@tcl.com Telephone: 0086-755-36611722

Fax: /

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: Gong Zhizhou

Contact Email zhizhou.gong@tcl.com Telephone: 0086-755-36611722

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

3.1. About EUT

Description GSM Quad band/UMTS 5 Band/LTE 12 Band Mobile phone

Model Name 5060A

FCC ID 2ACCJH090

Extreme vol. Limits 3.5VDC to 4.35VDC (nominal: 3.85VDC)

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	357537090201161	PIO	v1B53

^{*}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	1	/
AE3	Charger	/	/
AE4	Charger	1	/
AE5	USB cable	1	/
AE6	USB cable	/	/

AE1

Model CAC3860010C1

Manufacturer BYD
Capacitance 3860mAh
Nominal voltage 3.85V

AE2

Model CAC3860014C7

Manufacturer VEKEN
Capacitance 4000mAh

Nominal voltage /

AE3

Model CBA0059AGAC7

Manufacturer Chenyang

Length of cable /

AE4

Model CBA0059AGAC4

Manufacturer AOHAI

Length of cable

AE5

Model CDA0000024C2



Manufacturer JUWEI

Length of cable

AE6

Model CDA0000024C8

Manufacturer PUAN

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	EUT3+ AE1 + AE3+ AE5/ AE6	Charger
Set.2	EUT3+ AE1 + AE4+ AE5/ AE6	Charger
Set.3	EUT3+ AE1 + AE5/ AE6	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	2014
	Methods of Measurement of Radio-	
	Noise Emissions from Low-Voltage	
	Electrical and Electronic Equipment	
	in the Range of 9 kHz to 40 GHz	

Note: The test methods have no deviation with standards.



5. LABORATORY ENVIRONMENT

Semi-anechoic chamber SAC-1 (23 meters×17 meters×10 meters) 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	< 4Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3m/10m 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 × 6.7 meters × 6.1 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C		
Relative humidity	Min. = 15 %, Max. = 75 %		
Shielding offectiveness	0.014MHz - 1MHz, >60dB;		
Shielding effectiveness	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:		
	Р	Pass
Verdict Column	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	Р	CTTL(BDA)
2	Conducted Emission	15.107(a)	A.2	Р	CTTL(huayuan North Road)



7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATI ON INTERVAL
1	Test Receiver	ESU26	100376	R&S	2018-12-17	1 year
2	Test Receiver	ESCI 7	100344	R&S	2019-02-28	1 year
3	Universal Radio Communication Tester	CMW500	116588	R&S	2018-11-26	1 year
4	Universal Radio Communication Tester	CMW500	159408	R&S	2019-04-12	1 year
5	LISN	ENV216	101200	R&S	2018-07-04	1 year
6	EMI Antenna	VULB9163	9163-514	Schwarzbeck	2020-02-03	3 years
7	EMI Antenna	3117	00139065	ETS-Lindgren	2020-11-15	3 years
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

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 3 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_A: Antenna factor of receive antenna

G_{PL}: Path Loss

P_{Mea}: Measurement result on receiver.

Measurement uncertainty (worst case): 30MHz-1GHz: 5.16dB, 1GHz-18GHz: 5.44dB, *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)	Margin (dB)	Antenna Pol. (H/V)
		. ,					
17955.750	38.4	-25.2	41.4	22.111	54.0	15.6	Н
16779.750	38.3	-26.0	41.7	22.605	54.0	15.7	V
17052.000	38.3	-26.0	41.8	22.573	54.0	15.7	V
16790.250	38.3	-26.0	41.7	22.539	54.0	15.7	Н
16798.500	38.2	-25.9	41.7	22.511	54.0	15.8	V
17019.000	38.2	-26.0	41.8	22.414	54.0	15.8	Н

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)
16983.750	50.6	-25.9	41.8	34.69	74.0	23.4	Н
17954.250	50.4	-25.2	41.4	34.20	74.0	23.6	V
17112.750	50.4	-26.2	41.7	34.87	74.0	23.6	Н
17523.000	50.3	-25.6	41.5	34.48	74.0	23.7	V
17004.000	50.2	-25.9	41.8	34.32	74.0	23.8	V
17005.500	50.2	-25.9	41.8	34.31	74.0	23.8	Н



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)
17021.250	38.4	-26.0	41.8	22.58	54.0	15.6	V
16948.500	38.3	-25.8	41.8	22.32	54.0	15.7	Н
16958.250	38.2	-25.8	41.8	22.22	54.0	15.8	V
17007.750	38.2	-25.9	41.8	22.31	54.0	15.8	V
17058.000	38.1	-26.1	41.8	22.44	54.0	15.9	Н
17997.750	38.1	-24.9	41.4	21.69	54.0	15.9	Н

Charging Mode/Peak detector

<u> </u>	onal ging mode, reak detector									
Fraguency	Measurement	Cable	Antenna	Receiver	Limit	Margin	Antenna			
Frequency (MHz)	Result	loss	Factor	Reading	(dBμV/m)	(dB)	Pol.			
(IVITIZ)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(ασμν/ιιι)		(H/V)			
16587.750	50.7	-25.8	41.6	34.95	74.0	23.3	Н			
16816.500	50.4	-25.9	41.7	34.63	74.0	23.6	V			
16888.500	50.3	-25.8	41.7	34.42	74.0	23.7	Н			
17583.000	50.3	-25.4	41.5	34.18	74.0	23.7	Н			
16935.000	50.1	-25.8	41.8	34.18	74.0	23.9	Н			
16482.750	50.1	-25.8	41.5	34.44	74.0	23.9	Н			



Measurement results for Set.3:

USB Mode/Average detector

Frequency	Measurement	Cable	Antenna	Receiver	Limit	Margin	Antenna
	Result	loss	Factor	Reading	(dBμV/m)	_	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)		(dB)	(H/V)
5875.500	39.6	-31.8	35.0	36.359	54.0	14.4	V
16831.500	38.1	-25.9	41.7	22.269	54.0	15.9	V
17748.750	38.0	-25.7	41.4	22.339	54.0	16.0	V
17977.500	38.0	-25.0	41.4	21.679	54.0	16.0	Н
17078.250	38.0	-26.1	41.8	22.357	54.0	16.0	V
17958.750	38.0	-25.2	41.4	21.731	54.0	16.0	V

USB 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)
17952.750	50.4	-25.2	41.4	34.16	74.0	23.6	Н
17106.000	50.3	-26.2	41.7	34.76	74.0	23.7	V
16799.250	50.1	-25.9	41.7	34.36	74.0	23.9	V
17738.250	50.0	-25.7	41.5	34.29	74.0	24.0	Н
16476.750	50.0	-25.8	41.5	34.36	74.0	24.0	V
17634.000	50.0	-25.2	41.5	33.65	74.0	24.0	Н

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



Charging Mode, Set.1



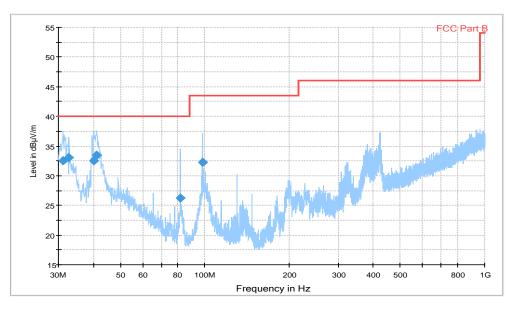


Figure A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency	QuasiPeak	Height	Polarization	Azimuth	Corr.	Margin	Limit
(MHz)	(dBµV/m)	(cm)		(deg)	(dB)	(dB)	(dBµV/m)
31.164000	32.5	100.0	V	135.0	-1.0	7.5	40.0
32.716000	33.1	100.0	V	0.0	-0.7	6.9	40.0
40.185000	32.5	125.0	V	103.0	0.3	7.5	40.0
41.058000	33.5	109.0	V	90.0	0.4	6.5	40.0
81.701000	26.2	100.0	V	194.0	-5.6	13.8	40.0
97.997000	32.2	125.0	V	309.0	-1.6	11.3	43.5

15B RE - 1GHz-3GHz

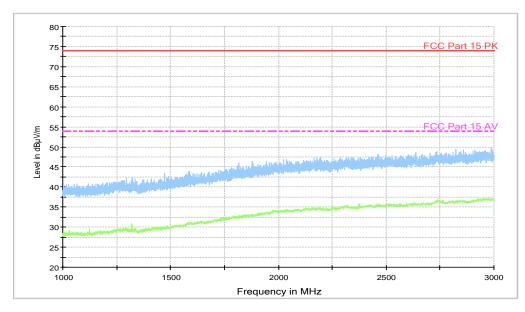
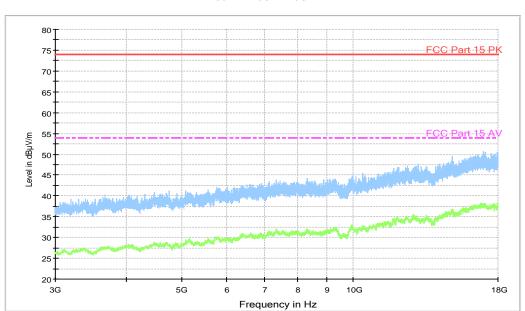


Figure A.2 Radiated Emission from 1GHz to 3GHz





15b RE - 3GHz-18GHz

Figure A.3 Radiated Emission from 3GHz to 18GHz

Charging Mode, Set.2



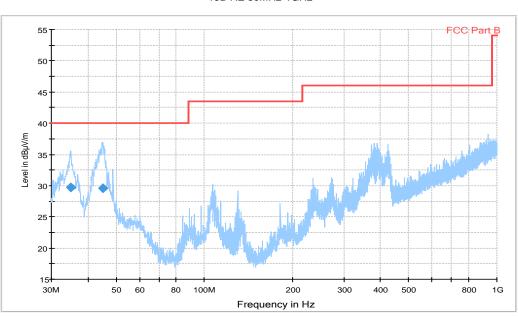


Figure A.4 Radiated Emission from 30MHz to 1GHz

Frequency	QuasiPeak	Height	Polarization	Azimuth	Corr.	Margin	Limit
(MHz)	(dBµV/m)	(cm)		(deg)	(dB)	(dB)	(dBµV/m)
34.850000	29.7	114.0	V	166.0	-0.4	10.3	40.0
45.132000	29.6	100.0	V	86.0	0.5	10.4	40.0





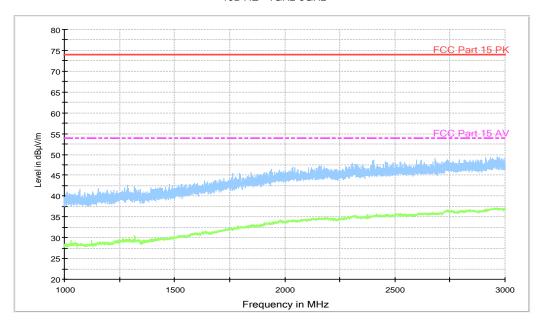
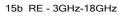


Figure A.5 Radiated Emission from 1GHz to 3GHz



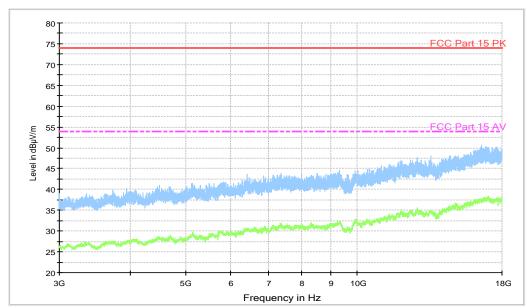


Figure A.6 Radiated Emission from 3GHz to 18GHz



USB Mode, Set.3

15B RE 30MHz-1GHz

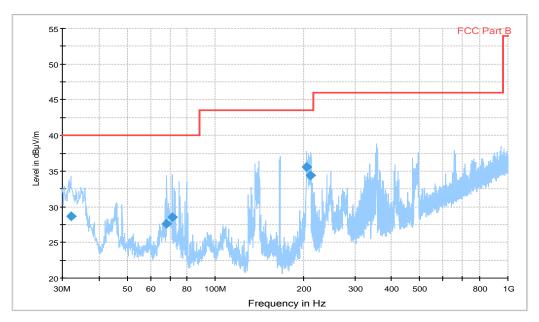
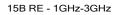


Figure A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency	QuasiPeak	Height	Polarization	Azimuth	Corr.	Margin	Limit
(MHz)	(dBµV/m)	(cm)		(deg)	(dB)	(dB)	(dBµV/m)
32.134000	28.6	100.0	V	191.0	-0.8	11.4	40.0
68.315000	27.6	114.0	V	41.0	-3.7	12.4	40.0
71.128000	28.5	100.0	Н	264.0	-4.6	11.5	40.0
205.66700	35.5	120.0	Н	25.0	-1.5	8.0	43.5
212.06900	34.4	114.0	Н	33.0	-1.4	9.1	43.5
32.134000	28.6	100.0	V	191.0	-0.8	11.4	40.0





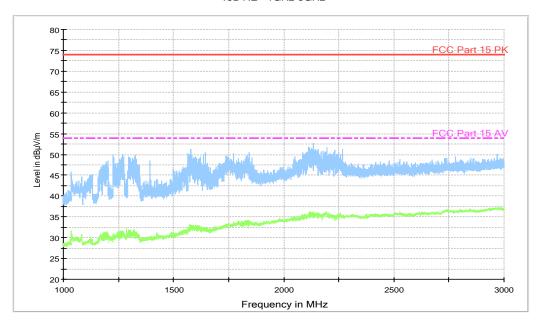


Figure A.8 Radiated Emission from 1GHz to 3GHz



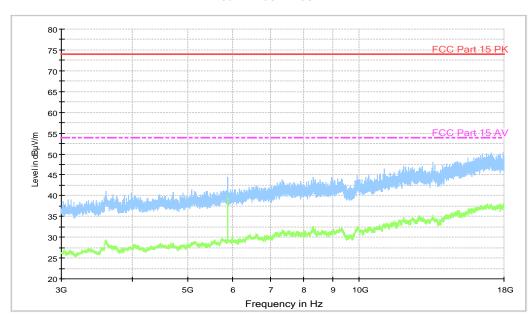


Figure A.9 Radiated Emission from 3GHz to 18GHz



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

5 5							
Voltage (V)	Frequency (Hz)						
120	60						

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



A.2.5 Measurement Results

Measurement uncertainty: *U*= 3.08 dB, *k*=2.

Charging Mode, Set.1

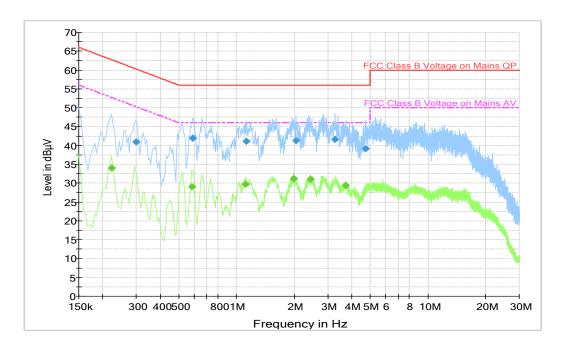


Fig A.1 Conducted Emission

Final Result 1

Frequency	QuasiPeak	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.298500	41.0	2000.0	9.000	On	L1	19.8	19.3	60.3
0.591000	42.0	2000.0	9.000	On	L1	19.9	14.0	56.0
1.126500	41.1	2000.0	9.000	On	L1	19.6	14.9	56.0
2.040000	41.2	2000.0	9.000	On	L1	19.7	14.8	56.0
3.277500	41.6	2000.0	9.000	On	L1	19.7	14.4	56.0
4.717500	39.1	2000.0	9.000	On	L1	19.6	16.9	56.0

Final Result 2

Frequency	Average	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.222000	34.0	2000.0	9.000	On	L1	19.8	18.7	52.7
0.586500	29.0	2000.0	9.000	On	L1	19.9	17.0	46.0
1.113000	29.8	2000.0	9.000	On	L1	19.6	16.2	46.0
1.990500	31.2	2000.0	9.000	On	L1	19.7	14.8	46.0
2.440500	31.1	2000.0	9.000	On	L1	19.7	14.9	46.0
3.727500	29.4	2000.0	9.000	On	L1	19.6	16.6	46.0

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



Charging Mode, Set.2

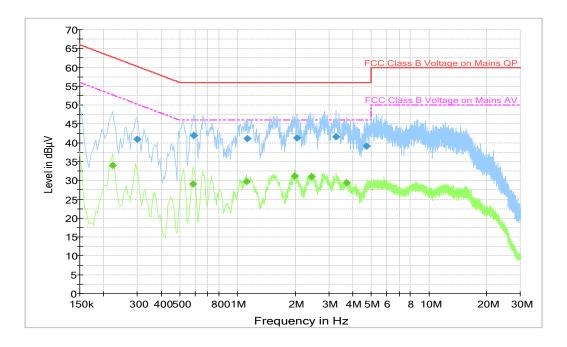


Fig A.2 Conducted Emission

Final Result 1

Frequency	QuasiPeak	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.298500	41.0	2000.0	9.000	On	L1	19.8	19.3	60.3
0.591000	42.0	2000.0	9.000	On	L1	19.9	14.0	56.0
1.126500	41.1	2000.0	9.000	On	L1	19.6	14.9	56.0
2.040000	41.2	2000.0	9.000	On	L1	19.7	14.8	56.0
3.277500	41.6	2000.0	9.000	On	L1	19.7	14.4	56.0
4.717500	39.1	2000.0	9.000	On	L1	19.6	16.9	56.0

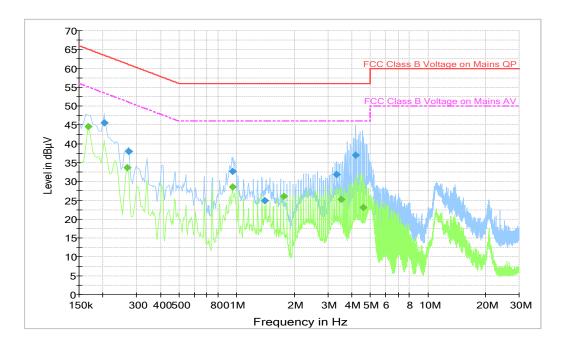
Final Result 2

Frequency	Average	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.222000	34.0	2000.0	9.000	On	L1	19.8	18.7	52.7
0.586500	29.0	2000.0	9.000	On	L1	19.9	17.0	46.0
1.113000	29.8	2000.0	9.000	On	L1	19.6	16.2	46.0
1.990500	31.2	2000.0	9.000	On	L1	19.7	14.8	46.0
2.440500	31.1	2000.0	9.000	On	L1	19.7	14.9	46.0
3.727500	29.4	2000.0	9.000	On	L1	19.6	16.6	46.0

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



.USB Mode, Set.3



Final Result 1

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Frequency	QuasiPeak	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit			
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)			
0.204000	45.6	2000.0	9.000	On	L1	19.8	17.8	63.4			
0.271500	38.1	2000.0	9.000	On	N	19.8	23.0	61.1			
0.955500	32.6	2000.0	9.000	On	L1	19.6	23.4	56.0			
1.405500	24.9	2000.0	9.000	On	N	19.6	31.1	56.0			
3.327000	31.8	2000.0	9.000	On	N	19.7	24.2	56.0			
4.209000	37.0	2000.0	9.000	On	N	19.7	19.0	56.0			

Final Result 2

Frequency	Average	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.204000	45.6	2000.0	9.000	On	L1	19.8	17.8	63.4
0.271500	38.1	2000.0	9.000	On	N	19.8	23.0	61.1
0.955500	32.6	2000.0	9.000	On	L1	19.6	23.4	56.0
1.405500	24.9	2000.0	9.000	On	N	19.6	31.1	56.0
3.327000	31.8	2000.0	9.000	On	N	19.7	24.2	56.0
4.209000	37.0	2000.0	9.000	On	N	19.7	19.0	56.0

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

END OF REPORT