



TEST REPORT

No. I14Z47731-EMC01

for

TCT Mobile Limited

GSM quad bands mobile phone

Model Name: 2012G,F1021

FCC ID: RAD542

with

Hardware Version: PIO

Software Version: vD30

Issued Date: 2014-12-03

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
I14Z47731-EMC01	Rev.0	1st edition	2014-12-03



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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

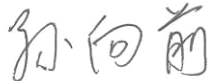
Testing Start Date: 2014-11-23

Testing End Date: 2014-12-02


1.4. Signature



Qu Pengfei
(Prepared this test report)



Sun Xiangqian
(Reviewed this test report)



Lu Bingsong
Director of the laboratory
(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: TCT Mobile Limited
Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China.
City: Shanghai
Postal Code: 201203
Country: China
Contact Person: Gong Zhizhou
Contact Email: zhizhou.gong@jrdcom.com
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2.2. Manufacturer Information

Company Name: TCT Mobile Limited
Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China.
City: Shanghai
Postal Code: 201203
Country: China
Telephone: 0086-21-61460890
Fax: 0086-21-61460602

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

3.1. About EUT

Description	GSM quad bands mobile phone
Model Name	2012G,F1021
FCC ID	RAD542
Extreme vol. Limits	3.5VDC 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 Telecommunication Metrology Center of MIIT of People's Republic of China.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	865360020100154	PIO	vD30

*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	/	14TCT-BA-1685
AE2	Battery	/	14TCT-BA-1684
AE3	Battery	/	14TCT-BA-1596
AE4	Battery	/	14TCT-BA-1683
AE5	Travel charger	/	14TCT-CH-1889
AE6	Travel charger	/	14TCT-CH-1457
AE7	Travel charger	/	14TCT-CH-1788
AE8	Travel charger	/	14TCT-CH-2178
AE9	USB cable	/	14TCT-DC-0449
AE10	USB cable	/	14TCT-DC-0682
AE11	USB cable	/	/
AE12	USB cable	/	/

AE1, AE2, AE3, AE4

Model	CAB22B0000C1
Manufacturer	BYD
Capacitance	750mAh
Nominal voltage	3.7V

AE5

Model	CBA3002AG0C1
Manufacturer	BYD
Length of cable	122cm



AE6	
Model	CBA3002AG0C2
Manufacturer	tenpao
Length of cable	121cm
AE7	
Model	CBA3008AG0C1
Manufacturer	BYD
Length of cable	/
AE8	
Model	CBA3008AG0C3
Manufacturer	YINGJU
Length of cable	/
AE9	
Model	CDA3122002C1
Manufacturer	JUWEI
Length of cable	101cm
AE10	
Model	CDA3122002C2
Manufacturer	Shenhua
Length of cable	101cm
AE11	
Model	CDA3122005C1
Manufacturer	JUWEI
Length of cable	/
AE12	
Model	CDA3122005C2
Manufacturer	Shenhua
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	EUT1+ AE1 + AE5	Charger
Set.2	EUT1+ AE1 + AE6	Charger
Set.3	EUT1+ AE1 + AE7 +AE9/AE10	Charger
Set.4	EUT1+ AE1 + AE8 +AE9/AE10	Charger
Set.5	EUT1+ AE1 + AE9/AE10	USB

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	2009

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	1/2/3/4	The test is performed in test location 1, 2, 3 or 4 which are described in section 1.1 of this report

Clause	List	Clause in FCC rules	Verdict	Location
1	Radiated Emission	15.109(a)	P	1
2	Conducted Emission	15.107(a)	P	1



7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESCI	100344	R&S	2015-03-03	1 year
2	Test Receiver	ESCI 7	100948	R&S	2015-07-16	1 year
3	Universal Radio Communication Tester	CMU200	109914	R&S	2015-04-13	1 year
4	Test Receiver	FSV	101047	R&S	2015-06-27	1 year
5	LISN	ESH2-Z5	829991/012	R&S	2015-04-14	1 year
6	EMI Antenna	VULB 9163	9163-234	Schwarzbeck	2016-09-16	3 years
7	EMI Antenna	3115	6914	ETS-Lindgren	2014-12-15	3 years

ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission (§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 - 2009, 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 ($\mu\text{V}/\text{m}$)		
	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
9994.375	35.4	-24.2	38.0	21.600	V
9987.063	35.3	-24.2	38.0	21.500	V
9949.938	35.3	-24.9	38.0	22.200	V
9973.563	35.3	-24.2	38.0	21.500	V
9965.688	35.3	-24.2	38.0	21.500	H
9965.125	35.3	-24.2	38.0	21.500	V

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G_{PL} (dB)	G_A (dB/m)	P_{Mea} (dB μ V)	Polarity
9092.688	47.6	-26.7	38.4	35.900	V
9020.125	47.5	-26.7	38.4	35.800	V
9899.313	47.4	-24.9	38.0	34.300	V
9880.750	47.3	-24.9	38.0	34.200	V
9861.063	47.2	-24.9	38.0	34.100	H
9990.438	47.2	-24.2	38.0	33.400	V

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
9957.813	35.4	-24.9	38.0	22.300	V
9962.313	35.3	-24.2	38.0	21.500	H
9948.813	35.3	-24.9	38.0	22.200	V
9949.375	35.3	-24.9	38.0	22.200	V
9972.438	35.3	-24.2	38.0	21.500	V
9987.063	35.3	-24.2	38.0	21.500	V

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
9897.625	47.8	-24.9	38.0	34.700	V
9430.750	47.4	-25.6	38.4	34.600	H
8866.563	47.2	-26.6	38.0	35.800	V
9927.438	47.2	-24.9	38.0	34.100	V
9746.875	47.2	-24.5	38.0	33.700	V
9988.750	47.2	-24.2	38.0	33.400	V

Measurement results for Set.3:

Charging Mode/Average detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
9965.688	35.5	-24.2	38.0	21.700	V
9955.563	35.4	-24.9	38.0	22.300	V
9954.438	35.4	-24.9	38.0	22.300	V
9951.625	35.4	-24.9	38.0	22.300	H
9965.125	35.4	-24.2	38.0	21.600	V
9958.938	35.4	-24.9	38.0	22.300	V

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
9893.688	47.8	-24.9	38.0	34.700	V
9936.438	47.7	-24.9	38.0	34.600	V
9863.875	47.5	-24.9	38.0	34.400	V
9972.438	47.4	-24.2	38.0	33.600	H
9862.188	47.2	-24.9	38.0	34.100	V
9960.625	47.1	-24.2	38.0	33.300	V

Measurement results for Set.4:

Charging Mode/Average detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
9973.000	35.5	-18.5	45.6	34.000	V
9941.500	35.4	-18.5	45.6	33.800	V
9986.500	35.4	-17.7	45.6	33.000	V
9966.250	35.3	-18.5	45.6	33.800	V
9984.813	35.3	-18.5	45.6	33.500	H
9957.250	35.3	-18.5	45.6	33.500	V

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
9844.750	47.7	-18.5	45.6	34.000	V
9971.313	47.6	-18.5	45.6	33.800	V
9969.625	47.6	-17.7	45.6	33.000	V
9687.250	47.6	-18.5	45.6	33.800	V
9082.000	47.3	-18.5	45.6	33.500	H
9061.750	47.0	-18.5	45.6	33.500	V

Measurement results for Set.5:

USB Mode/Average detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
9988.188	35.5	-24.2	38.0	21.700	V
9955.563	35.4	-24.9	38.0	22.300	H
9961.750	35.4	-24.2	38.0	21.600	V
9991.000	35.4	-24.2	38.0	21.600	V
9942.063	35.3	-24.9	38.0	22.200	V
9962.313	35.3	-24.2	38.0	21.500	V

USB Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
1324.563	51.5	-40.8	24.1	68.200	V
1324.000	51.1	-40.8	24.1	67.800	H
1325.125	50.7	-40.8	24.1	67.400	V
1199.688	50.5	-41.3	24.1	67.700	V
6747.063	49.9	-31.6	35.3	46.200	V
1196.313	49.4	-41.3	24.1	66.600	V

Note: The measurement results of Set.3, Set.4 and Set.5 showed here are worst cases of the combinations of different USB cables.

Charging Mode, Set.1

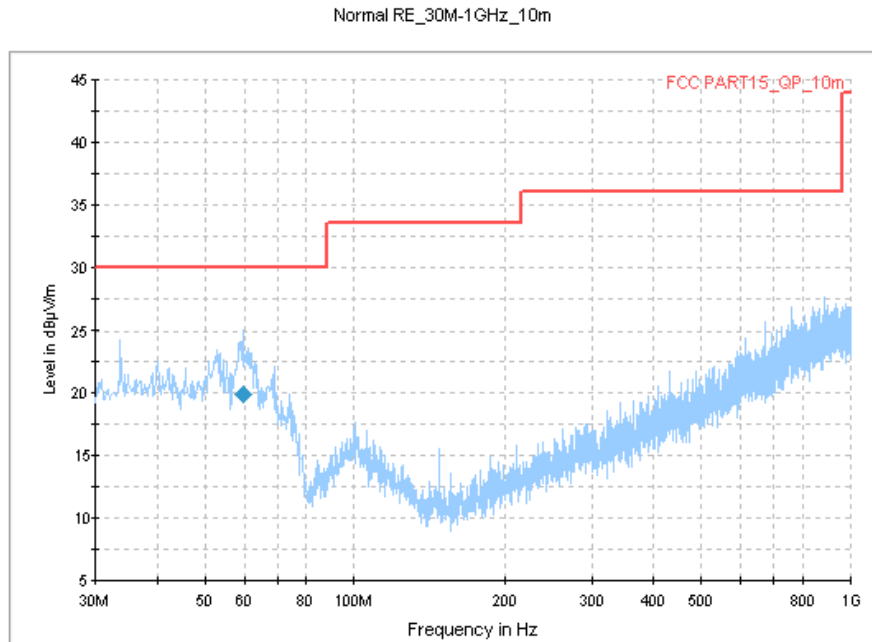


Fig.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency MHz	QuasiPeak dBµV/m	Limit dBµV/m	Margin dB	Azimuth Deg	Polarization H/V
59.765000	20.0	30.0	10.0	-36.0	V

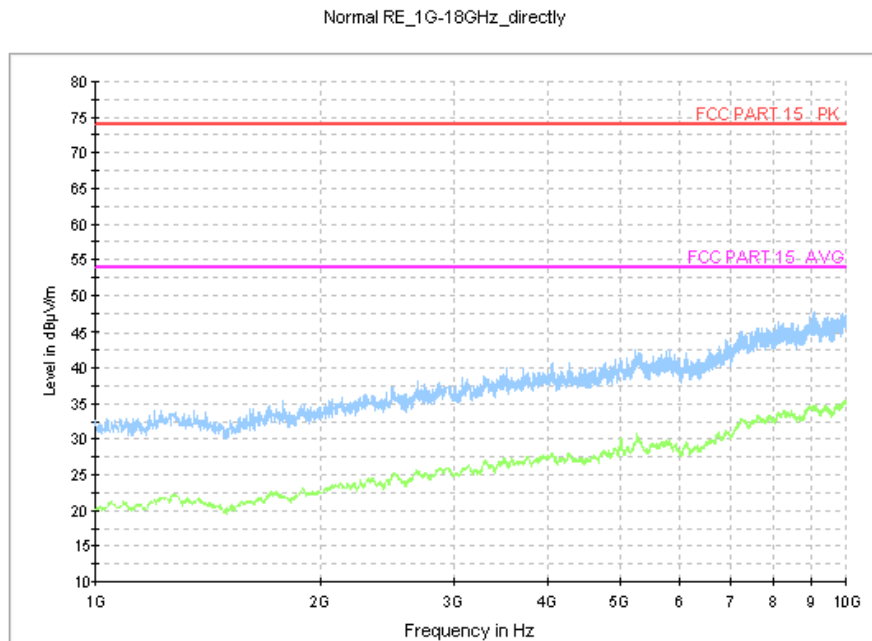


Fig.2 Radiated Emission from 1GHz to 10GHz

Charging Mode, Set.2

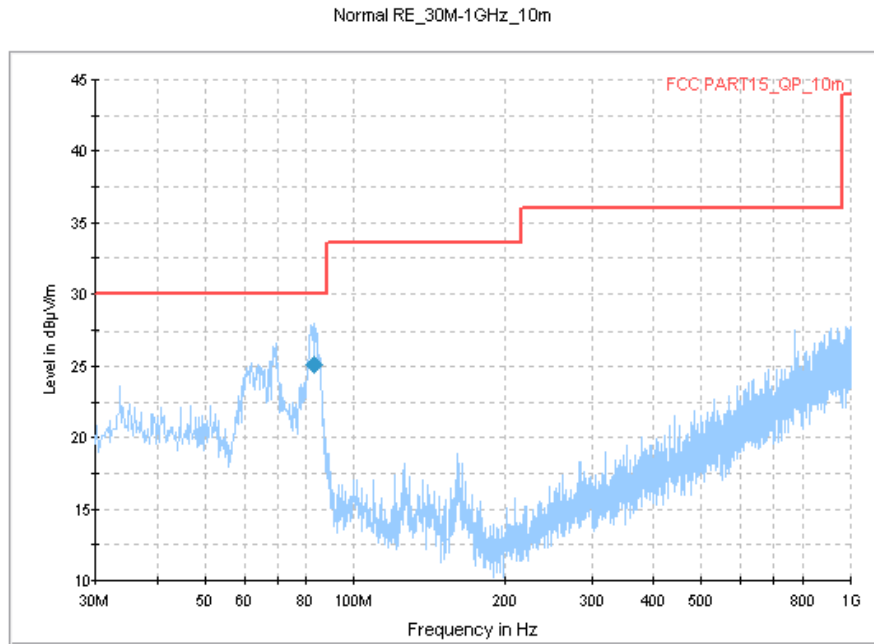


Fig.3 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency MHz	QuasiPeak dBµV/m	Limit dBµV/m	Margin dB	Azimuth Deg	Polarization H/V
83.283750	25.1	30.0	4.9	-29.0	V

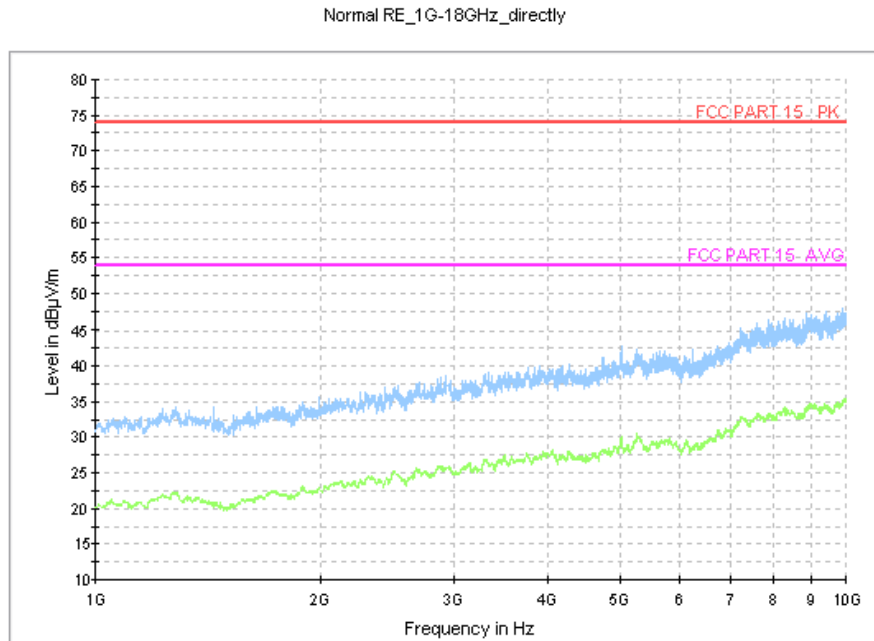


Fig.4 Radiated Emission from 1GHz to 10GHz

Charging Mode, Set.3

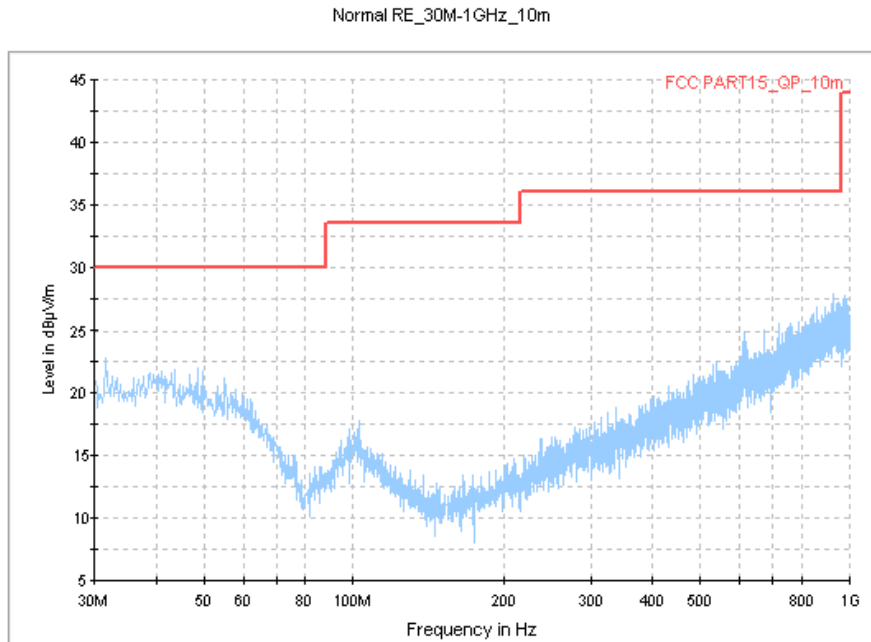


Fig.5 Radiated Emission from 30MHz to 1GHz

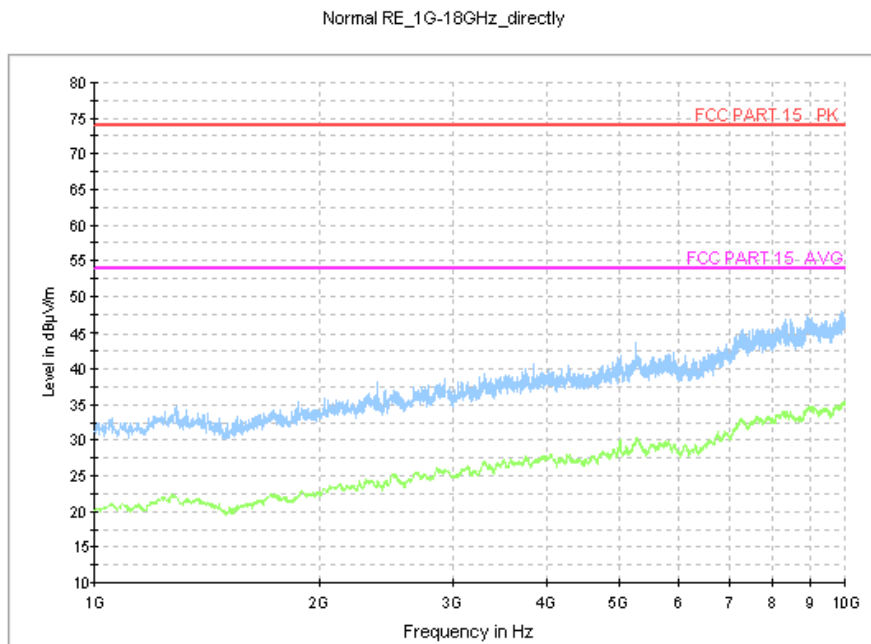


Fig.6 Radiated Emission from 1GHz to 10GHz

Charging Mode, Set.4

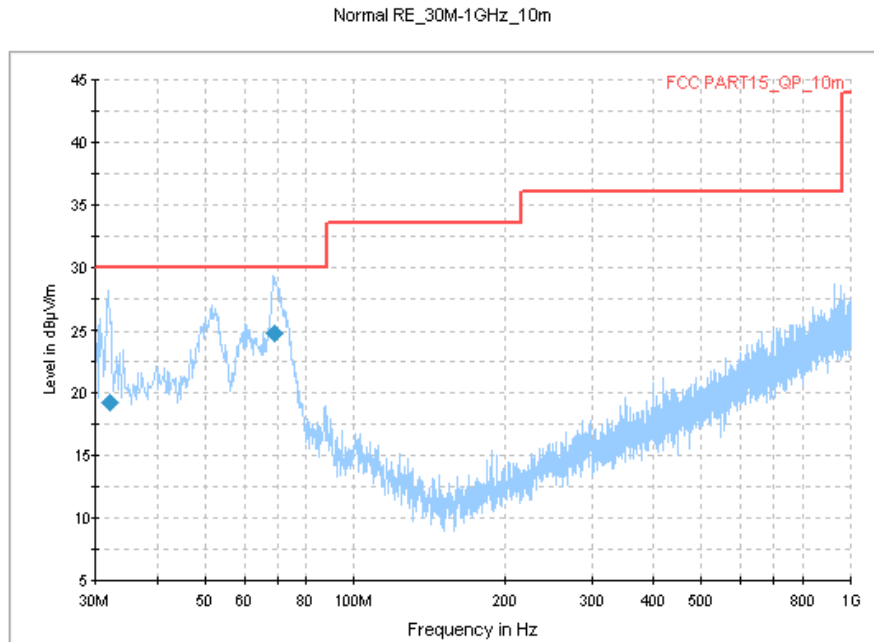


Fig.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency MHz	QuasiPeak dBµV/m	Limit dBµV/m	Margin dB	Azimuth Deg	Polarization H/V
32.238750	19.3	30.0	10.7	-29.0	V
69.280000	24.7	30.0	5.3	215.0	V

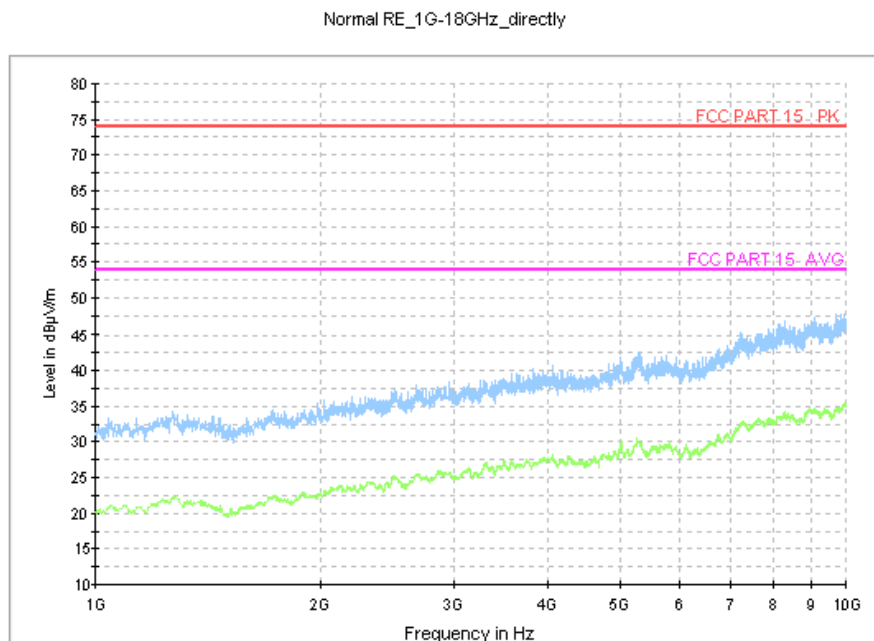


Fig.8 Radiated Emission from 1GHz to 10GHz

USB Mode, Set.5

Normal RE_30M-1GHz_10m

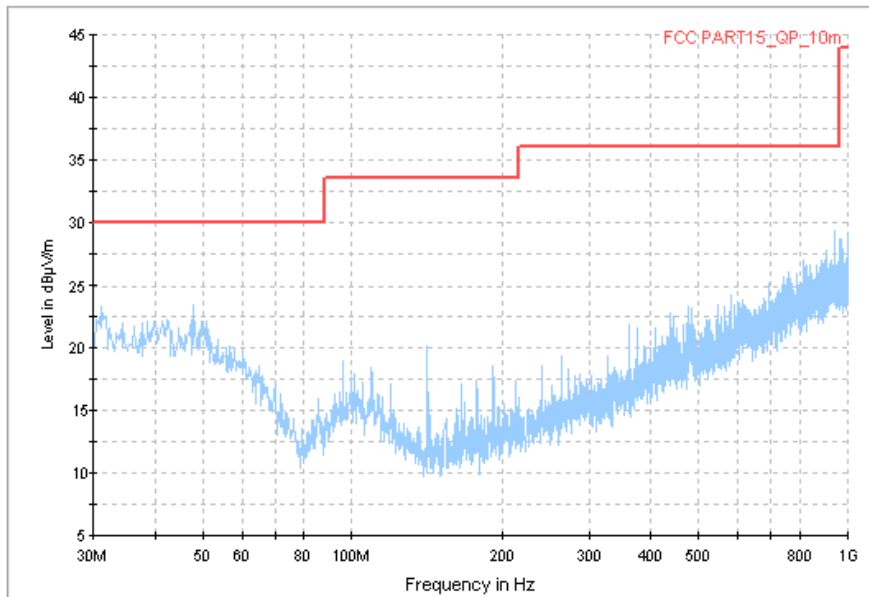


Fig.9 Radiated Emission from 30MHz to 1GHz

Normal RE_1G-18GHz_directly

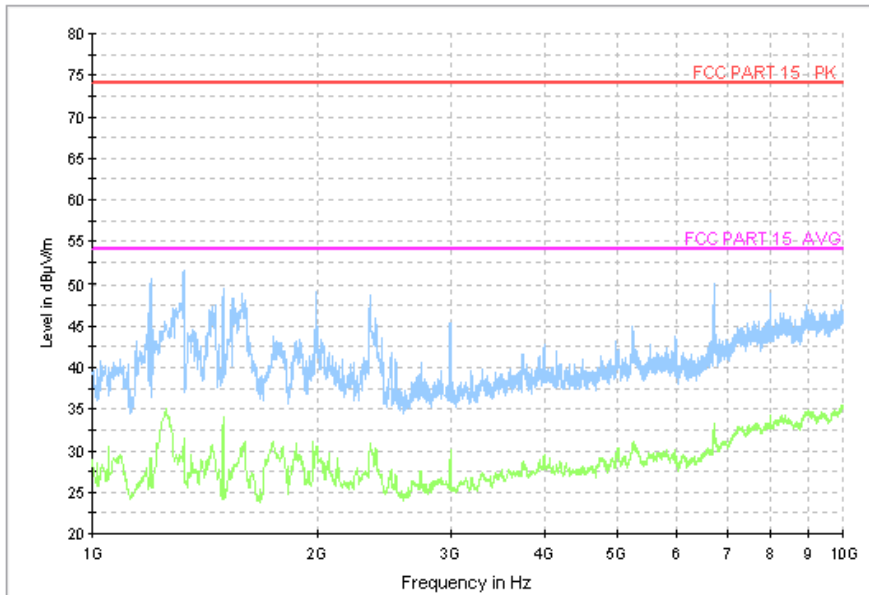


Fig.10 Radiated Emission from 1GHz to 10GHz

A.2 Conducted Emission (§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 - 2009, section 7.2.

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

Charging Mode, Set.1

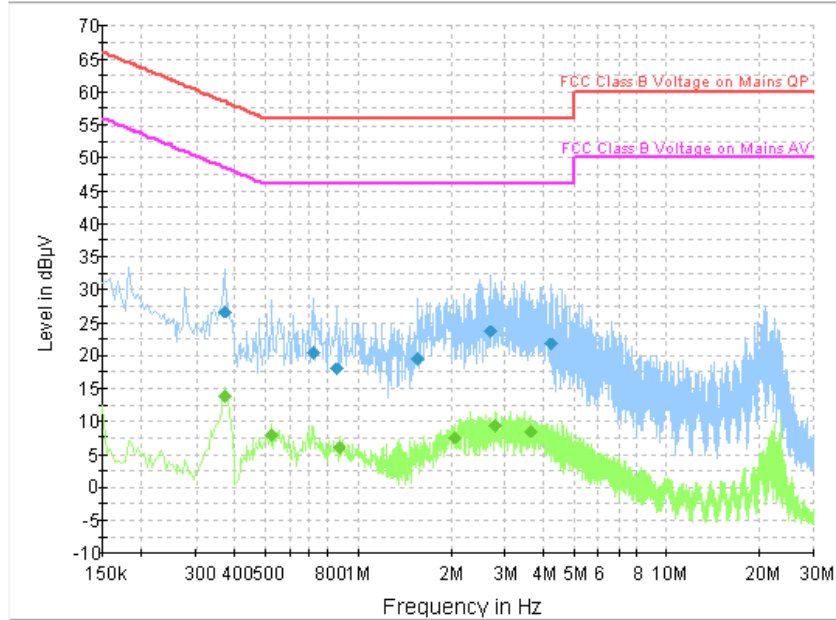


Fig.1 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.370500	26.6	GND	L1	9.7	31.9	58.5
0.717000	20.3	GND	L1	9.7	35.7	56.0
0.856500	17.9	GND	L1	9.7	38.1	56.0
1.563000	19.4	GND	L1	9.7	36.6	56.0
2.706000	23.5	GND	L1	9.7	32.5	56.0
4.267500	21.7	GND	L1	9.7	34.3	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.370500	13.7	GND	L1	9.7	34.8	48.5
0.528000	7.9	GND	L1	9.8	38.1	46.0
0.874500	6.0	GND	L1	9.7	40.0	46.0
2.062500	7.5	GND	L1	9.7	38.5	46.0
2.796000	9.3	GND	L1	9.7	36.7	46.0
3.615000	8.4	GND	L1	9.7	37.6	46.0

Charging Mode, Set.2

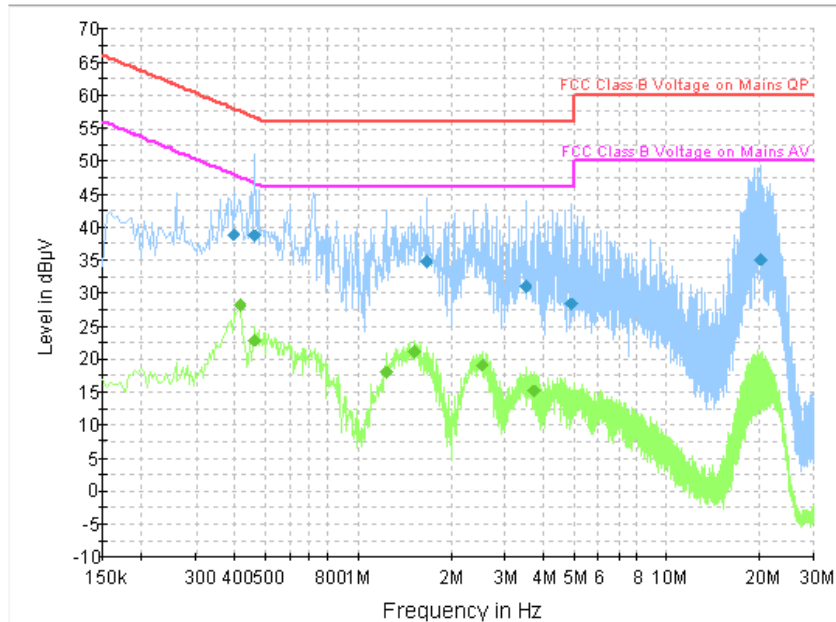


Fig.1 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.397500	38.8	GND	L1	9.7	19.1	57.9
0.465000	38.7	GND	L1	9.8	17.9	56.6
1.671000	34.7	GND	L1	9.6	21.3	56.0
3.511500	31.0	GND	L1	9.7	25.0	56.0
4.929000	28.3	GND	L1	9.7	27.7	56.0
20.071500	35.2	GND	L1	9.4	24.8	60.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.415500	28.1	GND	L1	9.8	19.5	47.5
0.465000	22.8	GND	L1	9.8	23.8	46.6
1.243500	17.9	GND	L1	9.7	28.1	46.0
1.540500	21.1	GND	L1	9.6	24.9	46.0
2.521500	19.1	GND	L1	9.7	26.9	46.0
3.727500	15.2	GND	L1	9.7	30.8	46.0

Charging Mode, Set.3

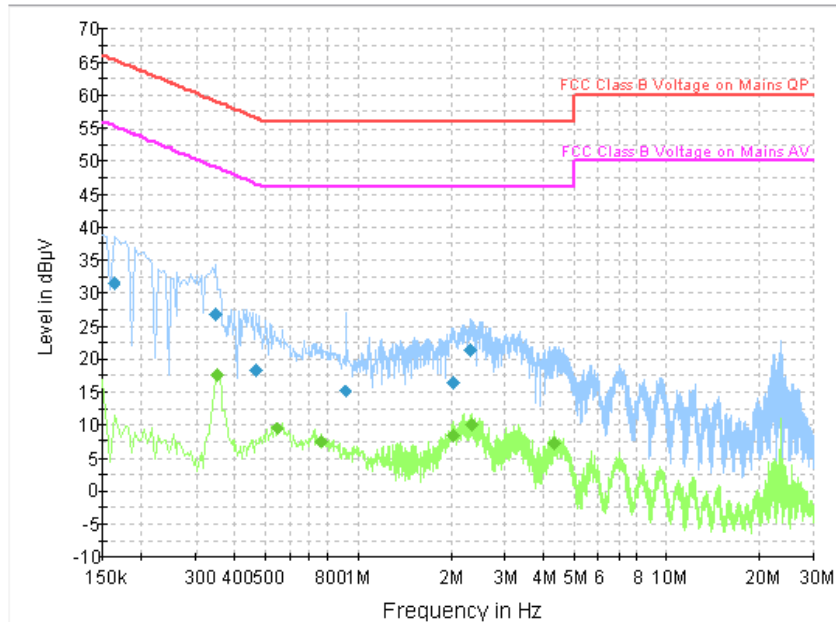


Fig.1 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.163500	31.5	GND	L1	9.7	33.8	65.3
0.348000	26.7	GND	L1	9.8	32.3	59.0
0.469500	18.3	GND	L1	9.8	38.3	56.5
0.915000	15.0	GND	N	9.7	41.0	56.0
2.035500	16.4	GND	N	9.7	39.6	56.0
2.328000	21.3	GND	L1	9.7	34.7	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.352500	17.6	GND	N	9.8	31.3	48.9
0.550500	9.3	GND	N	9.8	36.7	46.0
0.766500	7.5	GND	N	9.7	38.5	46.0
2.040000	8.2	GND	L1	9.7	37.8	46.0
2.346000	9.9	GND	L1	9.7	36.1	46.0
4.348500	7.1	GND	L1	9.7	38.9	46.0

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

Charging Mode, Set.4

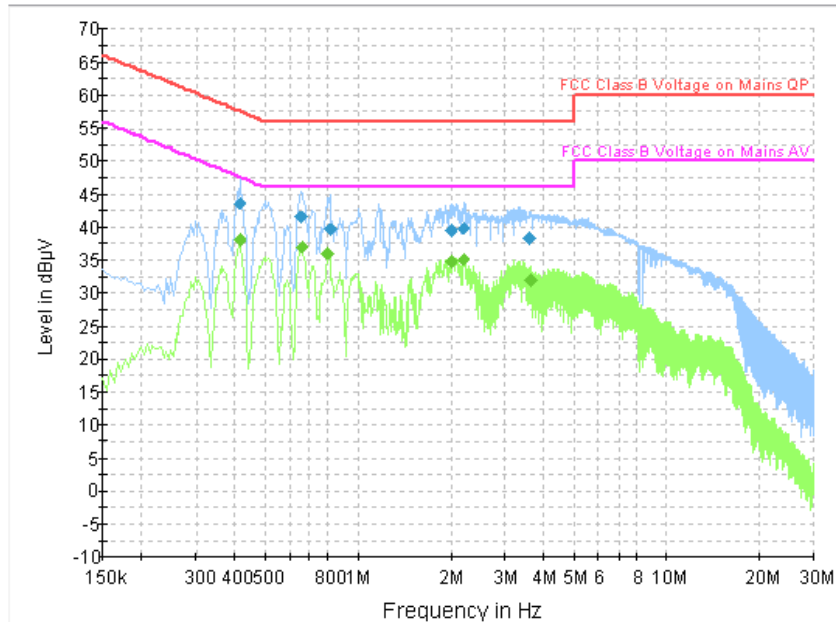


Fig.1 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.415500	43.5	GND	L1	9.8	14.0	57.5
0.654000	41.5	GND	L1	9.7	14.5	56.0
0.816000	39.7	GND	L1	9.7	16.3	56.0
1.999500	39.5	GND	L1	9.7	16.5	56.0
2.202000	39.7	GND	L1	9.7	16.3	56.0
3.610500	38.2	GND	L1	9.7	17.8	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.415500	38.1	GND	L1	9.8	9.4	47.5
0.663000	36.9	GND	L1	9.7	9.1	46.0
0.802500	36.0	GND	L1	9.7	10.0	46.0
1.999500	34.7	GND	L1	9.7	11.3	46.0
2.211000	35.0	GND	L1	9.7	11.0	46.0
3.633000	31.9	GND	L1	9.7	14.1	46.0

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

USB Mode, Set.5

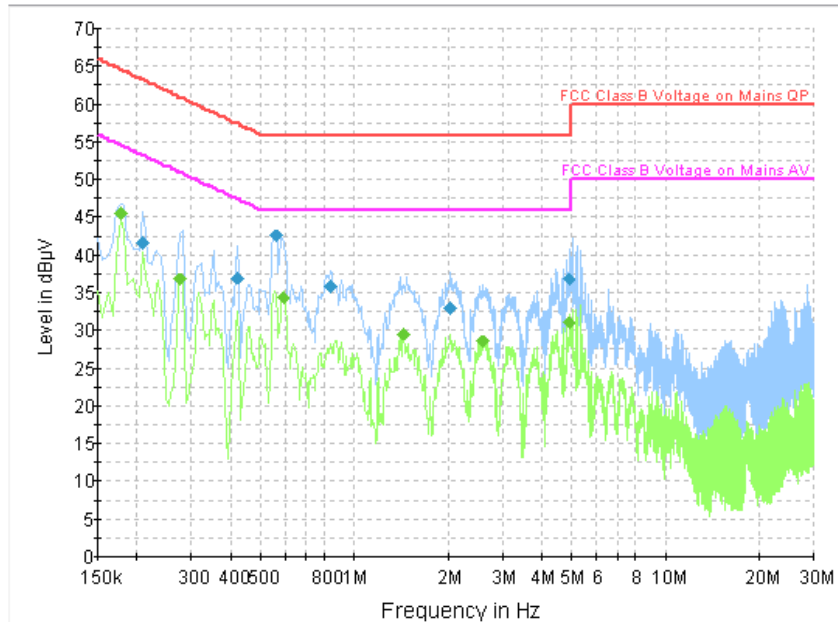


Fig.1 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.208500	41.5	GND	L1	9.7	21.7	63.3
0.420000	37.0	GND	L1	9.8	20.4	57.4
0.559500	42.5	GND	L1	9.8	13.5	56.0
0.838500	35.8	GND	L1	9.7	20.2	56.0
2.026500	33.0	GND	L1	9.7	23.0	56.0
4.920000	36.8	GND	L1	9.7	19.2	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.177000	45.5	GND	L1	9.7	9.1	54.6
0.276000	36.9	GND	L1	9.8	14.0	50.9
0.591000	34.4	GND	N	9.8	11.6	46.0
1.441500	29.5	GND	L1	9.7	16.5	46.0
2.607000	28.6	GND	N	9.7	17.4	46.0
4.920000	31.1	GND	L1	9.7	14.9	46.0

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

END OF REPORT