



# TESTREPORT

No.I19N00514-EMC

for

**RUGGEAR LIMITED**

**LTE SMARTPHONE**

**Model Name: RG655**

**FCC ID: 2ASCH-RG655**

**Hardware Version: V1.0**

**Software Version: RG655\_US\_1.0.0.0.0\_5\_20190415**

**Issued Date: 2019-04-22**

**Designation Number: CN1210**

**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 SAICT.

**Test Laboratory:**

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I19N00514-EMC	Rev.0	1st edition	2019-04-22

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## 1. Test Laboratory

### 1.1. Testing Location

Company Name: Shenzhen Academy of Information and Communications  
Technology  
Address: Building G, Shenzhen International Innovation Center, No.1006  
Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China  
Postal Code: 518026  
Telephone: +86(0)755-33322000  
Fax: +86(0)755-33322001

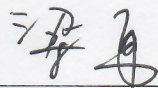
### 1.2. Testing Environment

Normal Temperature: 15-35℃  
Relative Humidity: 20-75%

### 1.3. Project data

Testing Start Date: 2019-03-18  
Testing End Date: 2019-04-22

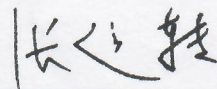
### 1.4. Signature



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Liang Yong

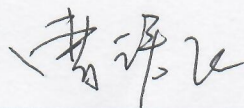
(Prepared this test report)



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Zhang Yunzhan

(Reviewed this test report)



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Cao Junfei

Director of the laboratory  
(Approved this test report)

## **2. ClientInformation**

### **2.1. Applicant Information**

Company Name: RUGGEAR LIMITED  
Address: RM1301,13/F WING TUCK COMM CTR 177-183 WING LOK ST  
SHEUNG WAN HONG KONG

### **2.2. Manufacturer Information**

Company Name: RUGGEAR LIMITED  
Address: RM1301,13/F WING TUCK COMM CTR 177-183 WING LOK ST  
SHEUNG WAN HONG KONG

### **3. Equipment UnderTest (EUT) and Ancillary Equipment (AE)**

#### **3.1. About EUT**

Description	LTE SMARTPHONE
Model Name	RG655
FCC ID	2ASCH-RG655
Condition of EUT as received	No obvious damage in appearance

The Equipment Under Test (EUT) are a model of LTE SMARTPHONE with integrated antenna. The EUT supports GPRS service and EGPRS service.

Remark: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed information.

#### **3.2. Internal Identification of EUT**

EUT ID*	SN or IMEI	HW Version	SW Version
UT01aa	865181040000434	V1.0	RG655_US_1.0.0.0.0_5_20190415

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

#### **3.3. Internal Identification of AE**

AE ID*	Description	SN
AE1	Li-Polymer Battery	/
AE2	SWITCHING POWER ADAPTER	/
AE3	DATA CABLE	/

##### AE1

Model	Li-Polymer Battery
Manufacturer	SHENZHEN YJC TECHNOLOGY CO. LTD.
Capacitance	4200mAh
Nominal Voltage	3.8V

##### AE2

Model	HKC0055010-3D
Manufacturer	SHENZHEN HUNTKEY ELECTRIC CO., LTD.

##### AE3

Model	Mirco USB
Manufacturer	WINPOWER TECHNOLOGY CO., LTD

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

### 3.4. EUT set-ups

<b>EUT set-up No.</b>	<b>Combination of EUT and AE</b>	<b>Remarks</b>
Set.1	EUT1+ AE1+AE2+AE3	Charging mode
Set.2	EUT1+AE3	USB mode

## **4. Reference Documents**

### **4.1. Reference Documents for testing**

The following documents listed in this section are referred for testing.

<b>Reference</b>	<b>Title</b>	<b>Version</b>
FCC Part 15, Subpart B	Radio frequency devices	10-1-2018 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** 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-18000MHz,>90dB
Electrical insulation	>2M
Ground system resistance	<4
Normalised site attenuation (NSA)	<±4 dB, 3 m distance, from 30 to 1000 MHz

**Shield room** did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. =20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-10000MHz,>90dB
Electrical insulation	>2M
Ground system resistance	<4

**Fully-anechoic chamber** 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-18000MHz,>90dB
Electrical insulation	>2M
Ground system resistance	<4
VoltageStandingWaveRatio (VSWR)	≤ 6 dB, from 1 to 18GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

## 6. SUMMARY OF TEST RESULTS

Abbreviations used in this clause:	
P	Pass
NA	Not applicable
F	Fail

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

## 7. Test Facilities Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CALDUE DATE	CAL PERIOD
1.	Test Receiver	ESR7	101676	R&S	2019.11.28	1 year
2.	TestReceiver	ESCI	100702	R&S	2019.06.20	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2019.05.21	1 year
4.	BiLog Antenna	3142E	00224831	ETS-lindgren	2021.05.17	3 years
5.	LISN	ENV216	102067	R&S	2019.07.18	1 year
6.	Horn Antenna	3117	00066577	ETS-lindgren	2022.04.02	3 years
7.	Universal Radio Communication Tester	CMU200	114545	R&S	2019.05.17	1 year
8.	PC	ThinkPad E480	PF-0Z56NV	Lenovo	/	/
9.	Printer	P1008	VNF6C12491	HP	/	/
10.	Mouse	MOEUJUA	44NY517	Lenovo	/	/
11.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2020.07.20	3 years

## **ANNEX A: MEASUREMENT RESULTS**

### **A.1 Radiated Emission (§15.109(a))**

#### **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 a distance of 3 meters 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 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:**

**MP3 mode:** The EUT is keeping on playing mp3.

**Camera mode:** The EUT is keeping on taking photos.

**Charging mode:** The MS is synchronized to SS, and able to respond to paging messages and incoming call. An established call has been released. The MS is connected to a charger.

**USB mode:** The model of the PC is Lenovo ThinkPad E480, and the serial number of the PC is PF-0Z56NV. 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**

Limit from CFR Part 15.109(a)

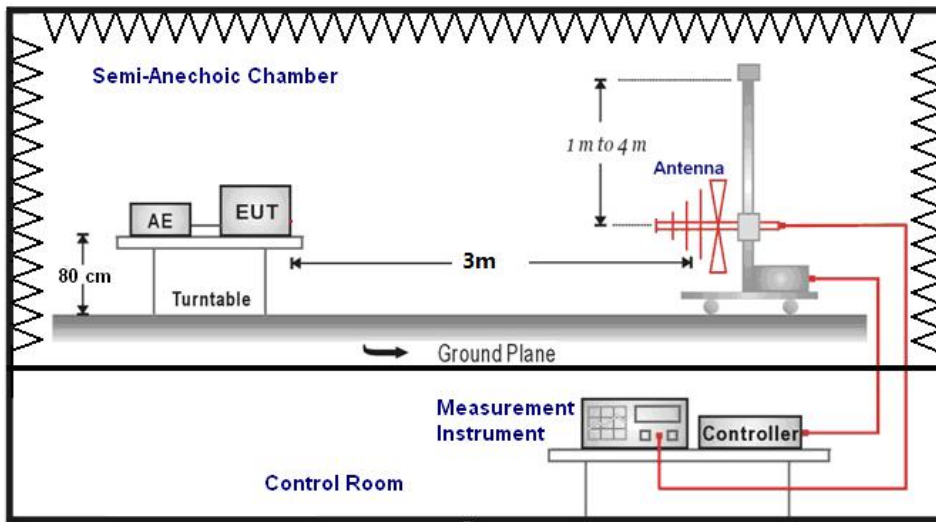
Frequency range (MHz)	Field strength limit ( $\mu\text{V}/\text{m}$ )		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

\*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

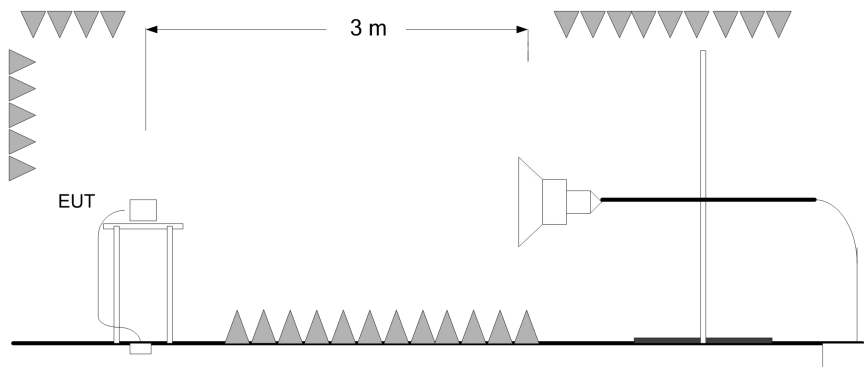
#### **A.1.4 Test Condition**

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

**A.1.5 Test set-up:  
30MHz-1GHz**



**1GHz-18GHz**



### A.1.6 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

$G_{PL}$ : PathLoss

$P_{\text{Mea}}$ : Measurement result on receiver.

Note: the result contains vertical part and Horizontal part

**RE Measurement uncertainty:** 30M-1GHz: 5.12dB (k=2);  
1GHz-18GHz: 5.05 dB (k=2)

#### Set.1 Camera mode / Charging mode / Peak detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB $\mu$ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	$P_{\text{Mea}}$ (dB $\mu$ V)
14005.00	55.69	74.00	18.31	V	17.90	37.79
14204.00	56.56	74.00	17.44	V	17.80	38.76
15577.00	57.45	74.00	16.55	H	20.80	36.65
16179.50	58.92	74.00	15.08	H	22.60	36.32
16648.50	59.67	74.00	14.33	H	22.70	36.97
17914.50	59.10	74.00	14.90	V	24.80	34.30

#### Set.1 Camera mode / Charging mode / Average detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB $\mu$ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	$P_{\text{Mea}}$ (dB $\mu$ V)
14003.00	43.18	54.00	10.82	V	17.90	25.28
14566.00	44.00	54.00	10.00	V	19.00	25.00
15573.50	45.55	54.00	8.45	V	20.80	24.75
15644.00	46.77	54.00	7.23	V	21.20	25.57
16648.50	47.10	54.00	6.90	H	22.70	24.40
17700.00	46.69	54.00	7.31	V	23.70	22.99

#### Set.1 MP3 mode / Charging mode / Peak detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB $\mu$ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	$P_{\text{Mea}}$ (dB $\mu$ V)
14020.50	55.11	74.00	18.89	V	17.90	37.21
14543.00	56.23	74.00	17.77	H	19.00	37.23
15567.50	56.89	74.00	17.11	V	20.70	36.19
16232.50	58.78	74.00	15.22	H	22.40	36.38
17000.00	59.26	74.00	14.74	V	23.30	35.96
17890.50	58.06	74.00	15.94	H	24.80	33.26

**Set.1 MP3 mode / Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Limit (dB $\mu$ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dB $\mu$ V)
14020.50	55.11	74.00	18.89	V	17.90	37.21
14543.00	56.23	74.00	17.77	H	19.00	37.23
15567.50	56.89	74.00	17.11	V	20.70	36.19
16232.50	58.78	74.00	15.22	H	22.40	36.38
17000.00	59.26	74.00	14.74	V	23.30	35.96
17890.50	58.06	74.00	15.94	H	24.80	33.26

**Set.1 IDEL mode / Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Limit (dB $\mu$ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dB $\mu$ V)
13608.50	55.30	74.00	18.70	H	17.80	37.50
14561.50	55.81	74.00	18.19	V	19.00	36.81
15577.00	57.10	74.00	16.90	H	20.80	36.30
16185.50	58.89	74.00	15.11	V	22.60	36.29
16744.00	59.29	74.00	14.71	V	22.20	37.09
17703.00	58.26	74.00	15.74	V	23.70	34.56

**Set.1 IDEL mode / Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Limit (dB $\mu$ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dB $\mu$ V)
14002.50	43.06	54.00	10.94	H	17.90	25.16
14564.50	43.98	54.00	10.02	V	19.00	24.98
15570.00	45.40	54.00	8.60	V	20.70	24.70
15644.00	46.61	54.00	7.39	V	21.20	25.41
16658.00	46.79	54.00	7.21	V	22.50	24.29
17703.50	46.47	54.00	7.53	V	23.70	22.77

**Set.2 USB mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Limit (dB $\mu$ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dB $\mu$ V)
13611.00	55.20	74.00	18.80	H	17.80	37.40
14539.00	56.09	74.00	17.91	V	19.00	37.09
15570.00	57.67	74.00	16.33	H	20.70	36.97
16279.00	58.72	74.00	15.28	H	22.00	36.72
16746.50	58.88	74.00	15.12	H	22.20	36.68
17482.50	58.69	74.00	15.31	H	22.80	35.89

**Set.2 USB mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Limit (dB $\mu$ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dB $\mu$ V)
13953.00	42.87	54.00	11.13	V	18.20	24.67
14557.00	43.86	54.00	10.14	V	19.00	24.86
15572.50	45.44	54.00	8.56	H	20.70	24.74
16260.00	46.62	54.00	7.38	H	22.20	24.42
16646.00	46.99	54.00	7.01	V	22.70	24.29
17700.50	46.39	54.00	7.61	H	23.70	22.69



Camera mode / Charging mode: Set 1

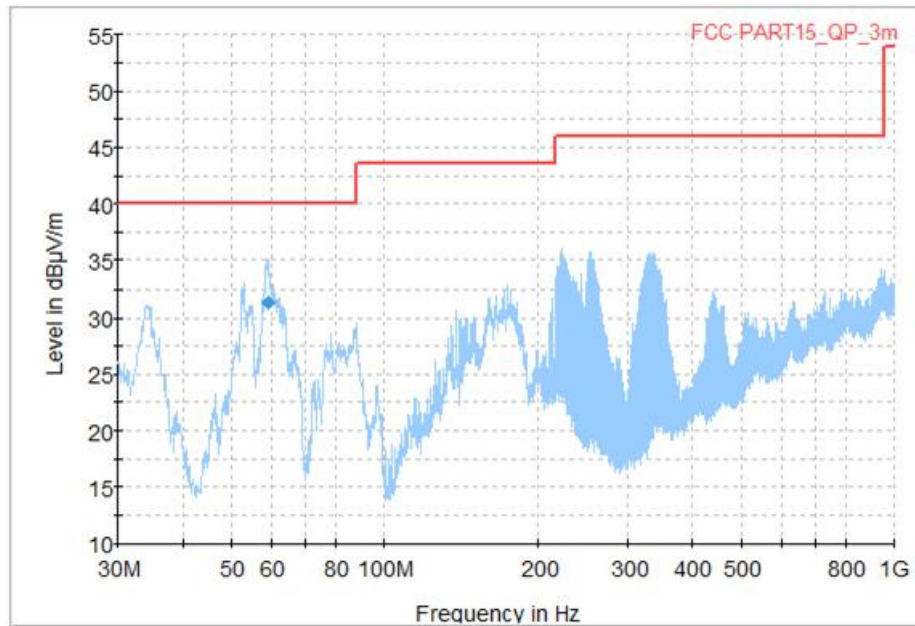


Figure A.1 Radiated Emission from 30MHz to 1GHz

**Final\_Result**

Frequency(MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
59.16	31.26	40.00	8.74	V	-11.50	42.76

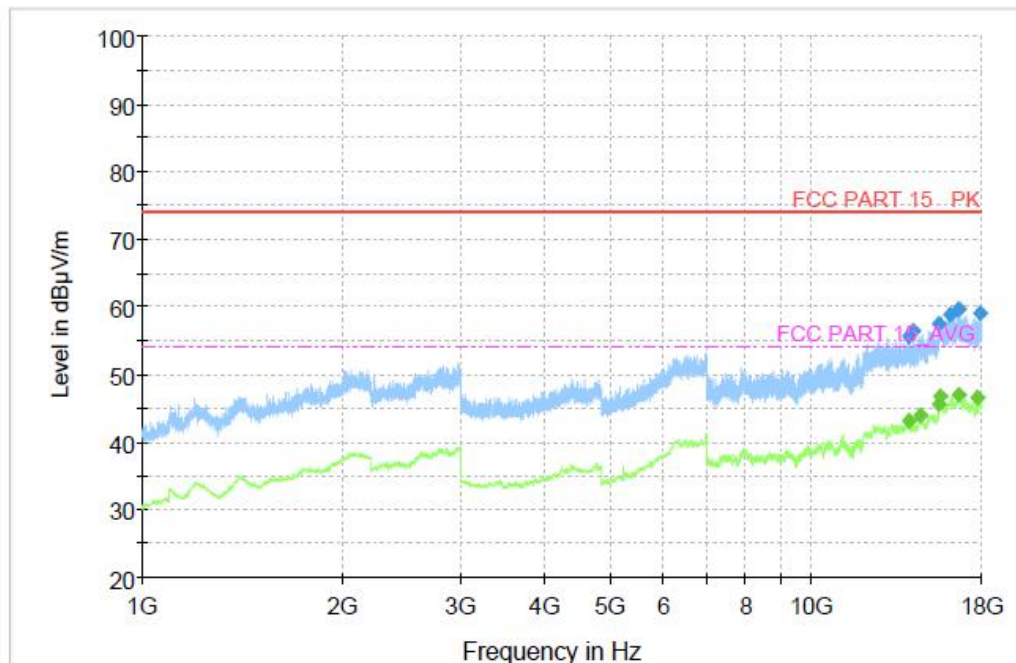


Figure A.2 Radiated Emission from 1GHz to 18GHz

MP3 mode / Charging mode: Set 1

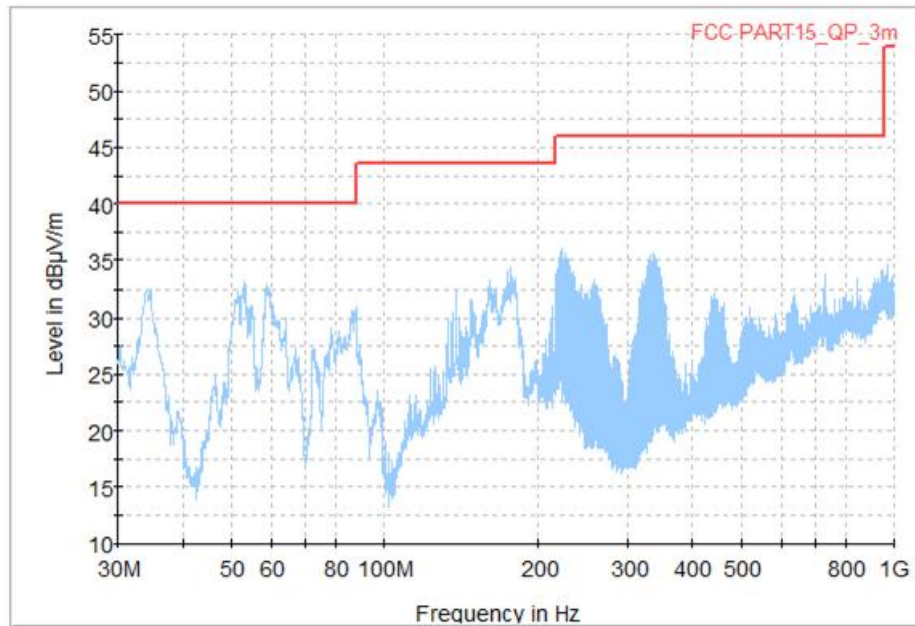


Figure A.3 Radiated Emission from 30MHz to 1GHz

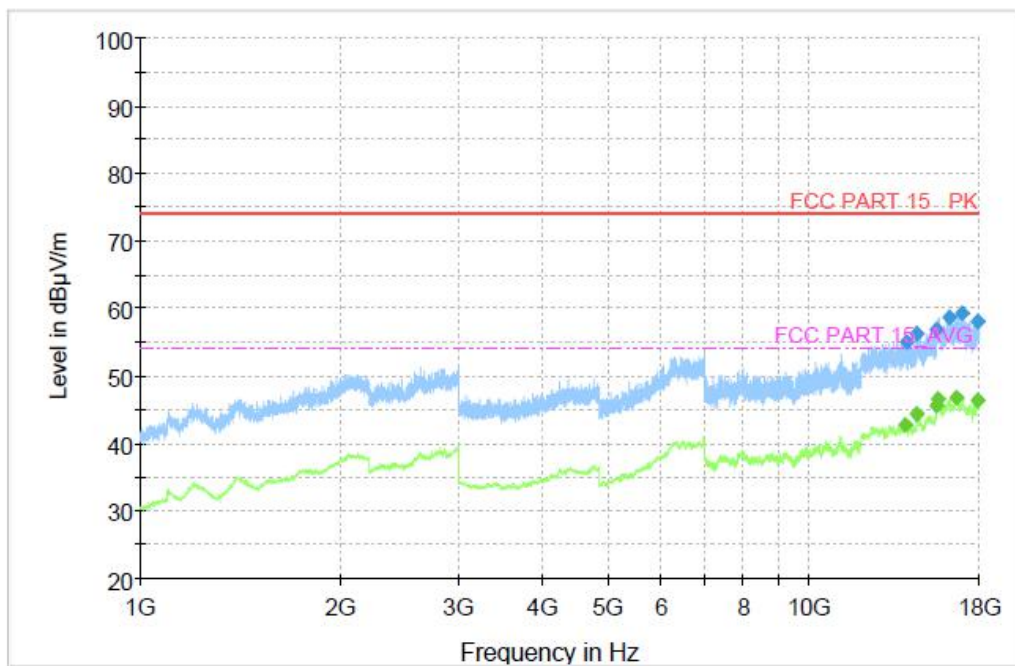


Figure A.4 Radiated Emission from 1GHz to 18GHz

IDEL mode / Charging mode: Set 1

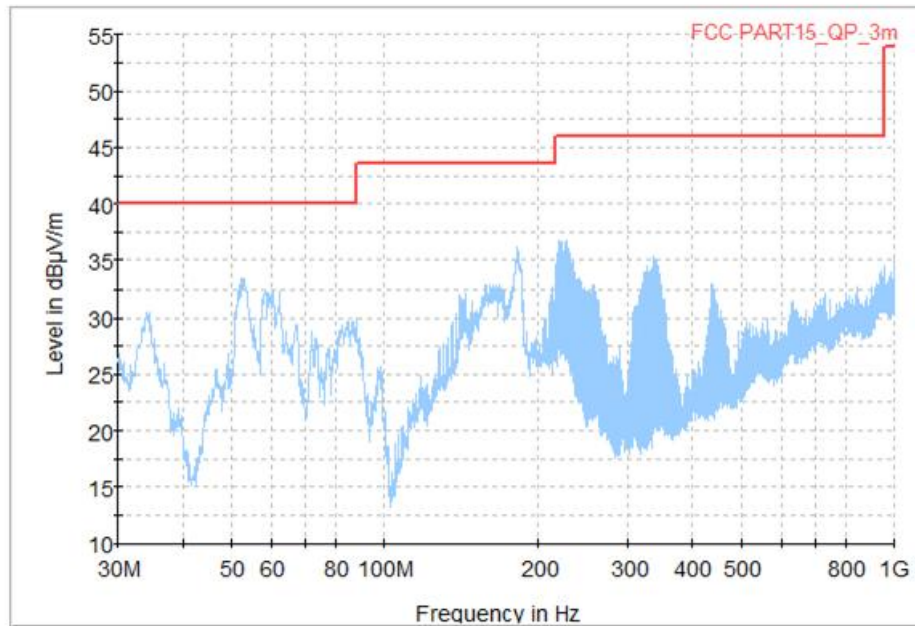


Figure A.5 Radiated Emission from 30MHz to 1GHz

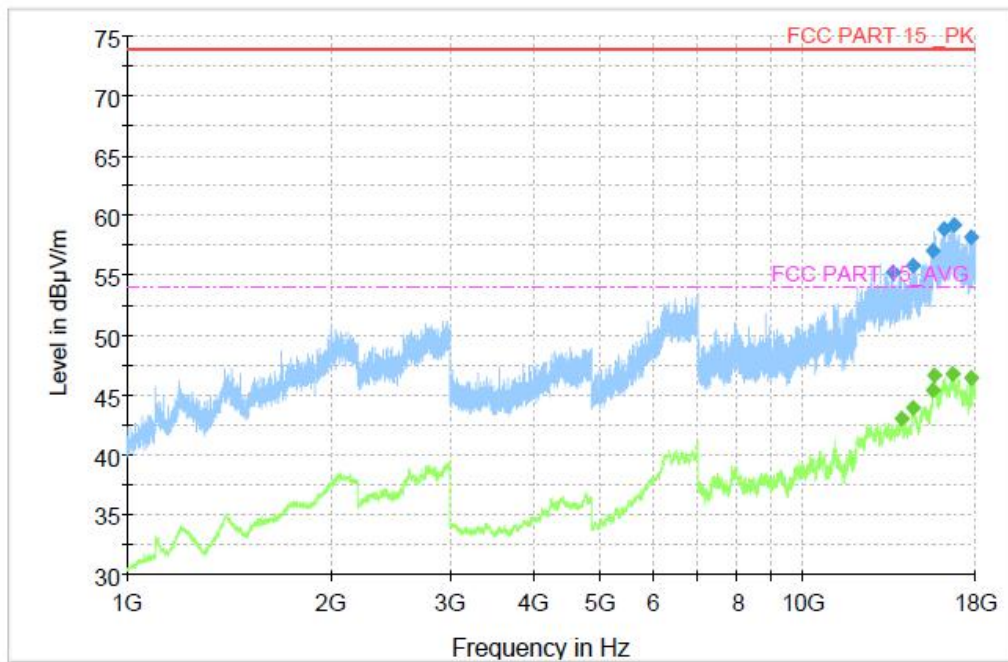


Figure A.6 Radiated Emission from 1GHz to 18GHz

USB mode: Set 2

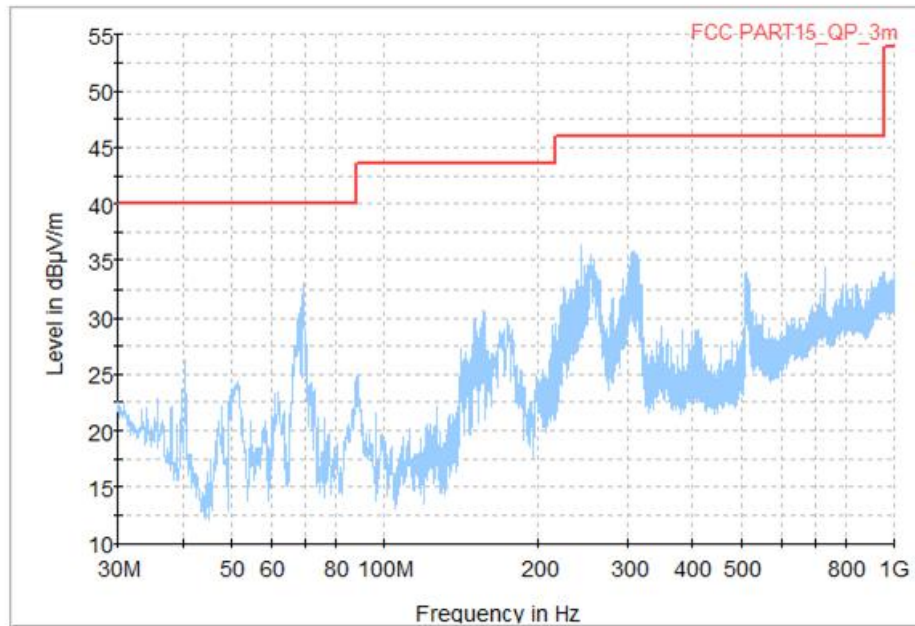


Figure A.7 Radiated Emission from 30MHz to 1GHz

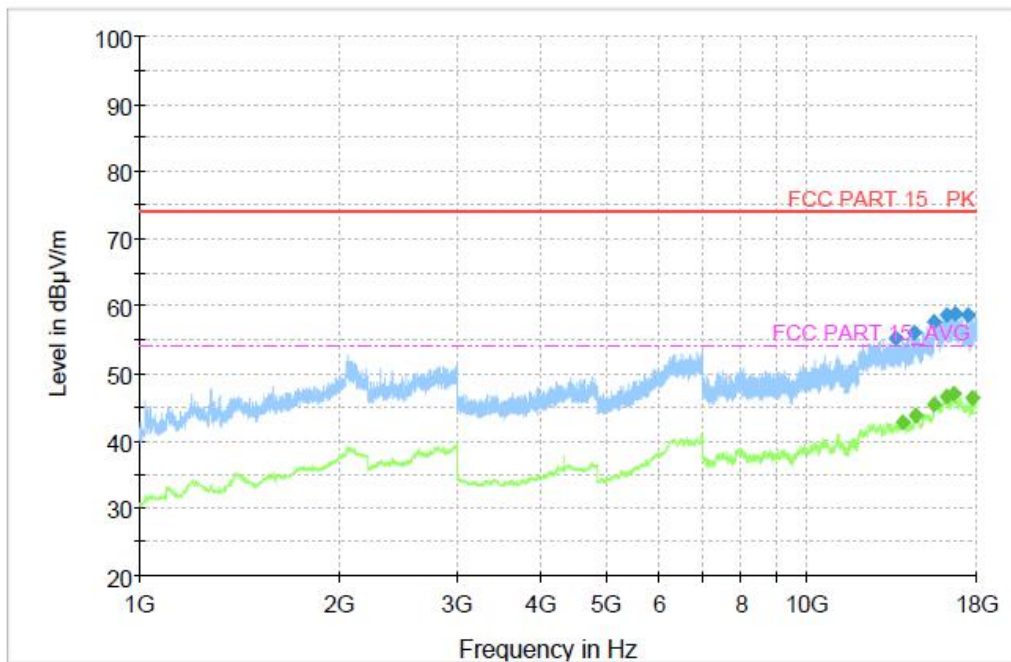


Figure A.8 Radiated Emission from 1GHz to 18GHz

## B.2 Conducted Emission (§15.107(a))

### Reference

FCC: CFR Part 15.107(a)

### B.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 150kHz to 30MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 -2014, section 7.3.

### B.2.2 EUT Operating Mode:

**MP3 mode:** The EUT is keeping on playing mp3.

**Camera mode:** The EUT is keeping on taking photos.

**FM mode:** The EUT is keeping on FM receiver.

**Charging mode:** The MS is synchronized to SS, and able to respond to paging messages and incoming call. An established call has been released. The MS is connected to a charger.

**USB mode:** The model of the PC is Lenovo ThinkPad E480, and the serial number of the PC is PF-0Z56NV. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

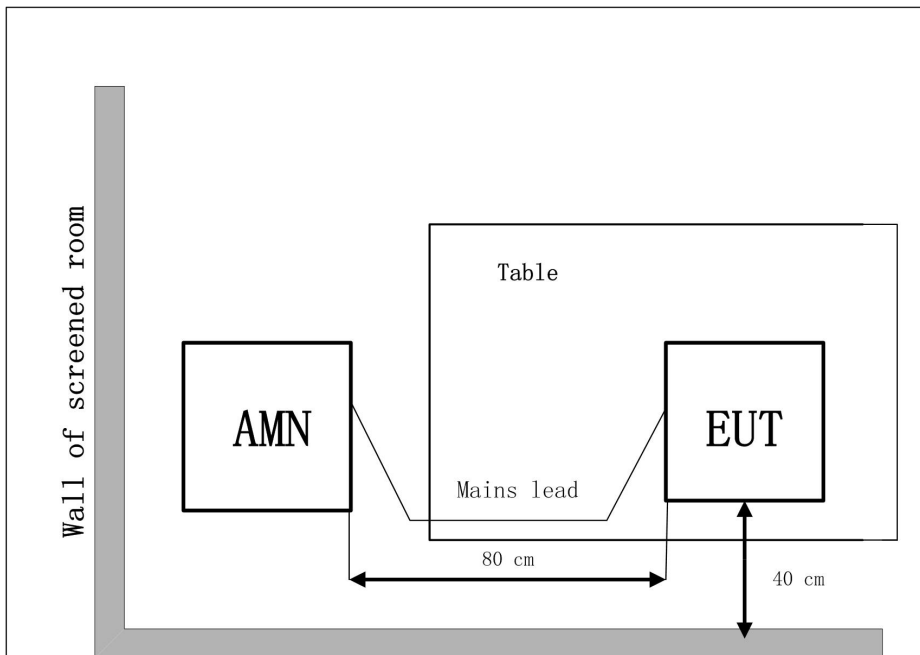
### B.2.3 Measurement Limit

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



**B.2.4 Test set-up:**



**B.2.5 Test Condition in charging mode**

Voltage (V)	Frequency (Hz)
120	50
240	50

RBW	Sweep Time(s)
9kHz	1

**CE Measurement uncertainty:** 3.00 dB (k=2)

**B.2.6 Measurement Results**

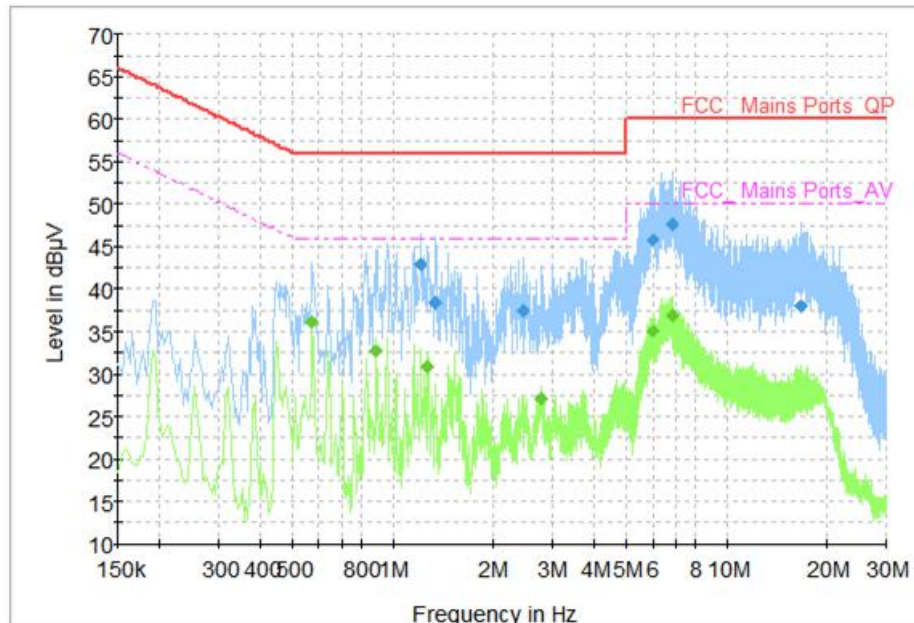
$$\text{QuasiPeak(dB}\mu\text{V) / Average(dB}\mu\text{V) = } P_{\text{Mea}} + \text{Corr}$$

Where

Corr: PathLoss + Voltage Division Factor

$P_{\text{Mea}}$ : Measurement result on receiver.

**Camera mode / Charging mode: Set 1**  
**Voltage: 120V**



**Figure B.1 Conducted Emission**

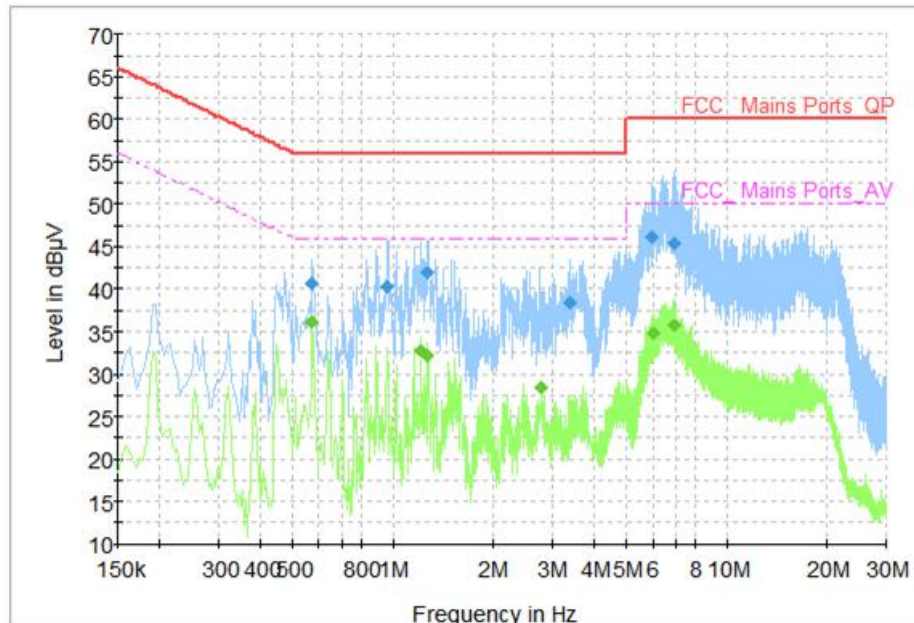
**Final Measurement Detector 1**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
1.206	42.88	56.00	13.12	N	9.70	33.18
1.342	38.44	56.00	17.56	N	9.70	28.74
2.442	37.48	56.00	18.52	N	9.70	27.78
5.962	45.85	60.00	14.15	N	9.80	36.05
6.834	47.59	60.00	12.41	N	9.80	37.79
16.766	37.90	60.00	22.10	L1	10.10	27.80

**Final Measurement Detector 2**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.574	36.12	46.00	9.88	N	9.70	26.42
0.894	32.62	46.00	13.38	N	9.70	22.92
1.270	30.81	46.00	15.19	N	9.70	21.11
2.762	27.06	46.00	18.94	N	9.70	17.36
5.970	35.04	50.00	14.96	N	9.80	25.24
6.826	36.89	50.00	13.11	N	9.80	27.09

**MP3 mode / Charging mode: Set 1**  
**Voltage: 120V**



**Figure B.2 Conducted Emission**

**Final Measurement Detector 1**

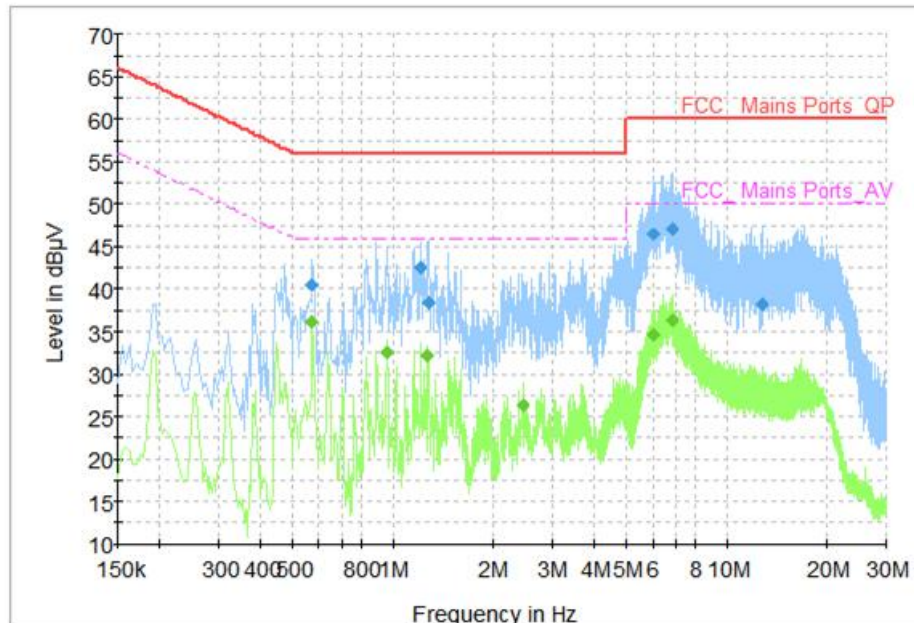
Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.574	40.69	56.00	15.31	N	9.70	30.99
0.958	40.22	56.00	15.78	N	9.70	30.52
1.274	41.89	56.00	14.11	N	9.70	32.19
3.402	38.42	56.00	17.58	N	9.70	28.72
5.910	46.16	60.00	13.84	N	9.80	36.36
6.958	45.37	60.00	14.63	N	9.80	35.57

**Final Measurement Detector 2**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.574	36.14	46.00	9.86	N	9.70	26.44
1.214	32.78	46.00	13.22	N	9.70	23.08
1.274	32.18	46.00	13.82	N	9.70	22.48
2.770	28.41	46.00	17.59	N	9.70	18.71
6.014	34.80	50.00	15.20	N	9.80	25.00
6.966	35.73	50.00	14.27	N	9.80	25.93



**IDEL mode / Charging mode: Set 1**  
**Voltage: 120V**



**Figure B.3 Conducted Emission**

**Final Measurement Detector 1**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.574	40.56	56.00	15.44	N	9.70	30.86
1.206	42.44	56.00	13.56	N	9.70	32.74
1.278	38.44	56.00	17.56	L1	9.70	28.74
6.034	46.38	60.00	13.62	N	9.80	36.58
6.810	47.01	60.00	12.99	N	9.80	37.21
12.702	38.23	60.00	21.77	N	9.90	28.33

**Final Measurement Detector 2**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.574	36.11	46.00	9.89	N	9.70	26.41
0.954	32.58	46.00	13.42	N	9.70	22.88
1.274	32.15	46.00	13.85	N	9.70	22.45
2.446	26.33	46.00	19.67	N	9.70	16.63
6.034	34.60	50.00	15.40	N	9.80	24.80
6.810	36.31	50.00	13.69	N	9.80	26.51

USB mode: Set 2  
Voltage: 120V

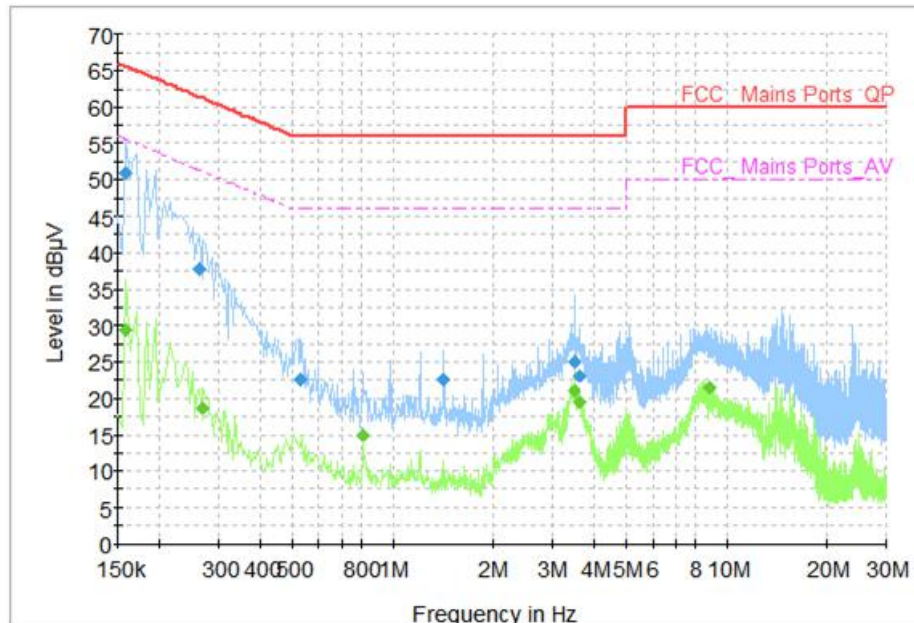


Figure B.4 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.158	51.01	65.57	14.56	N	9.60	41.41
0.262	37.81	61.37	23.56	N	9.60	28.21
0.526	22.62	56.00	33.39	L1	9.70	12.92
1.414	22.57	56.00	33.43	L1	9.70	12.87
3.490	25.10	56.00	30.90	L1	9.70	15.40
3.606	23.14	56.00	32.86	L1	9.70	13.44

**Final Measurement Detector 2**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.158	29.45	55.57	26.12	N	9.60	19.85
0.270	18.62	51.12	32.50	N	9.60	9.02
0.814	15.07	46.00	30.93	N	9.70	5.37
3.490	20.90	46.00	25.10	L1	9.70	11.20
3.606	19.40	46.00	26.60	L1	9.70	9.70
8.798	21.53	50.00	28.47	N	9.80	11.73

Camera mode / Charging mode: Set 1  
Voltage: 240V

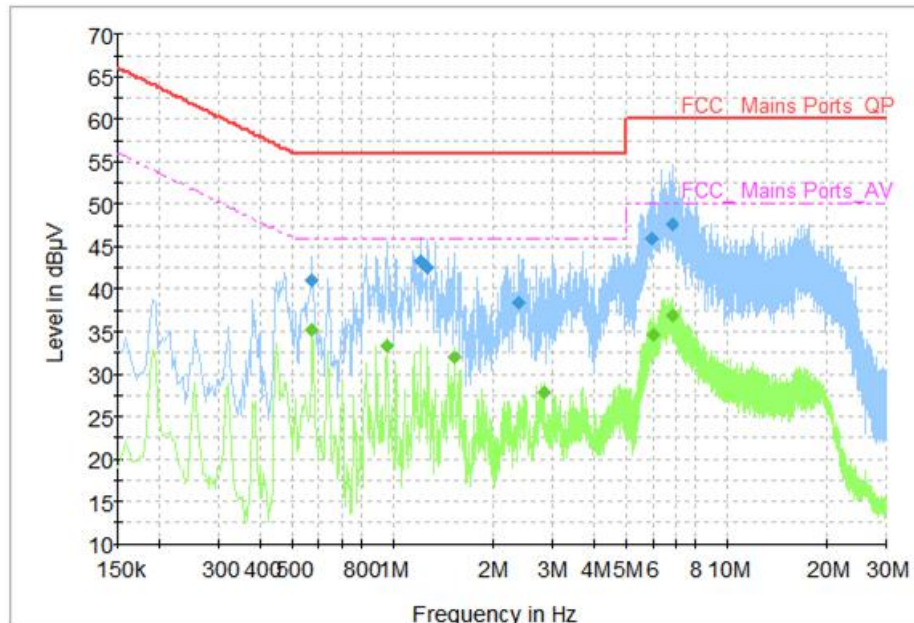


Figure B.5 Conducted Emission

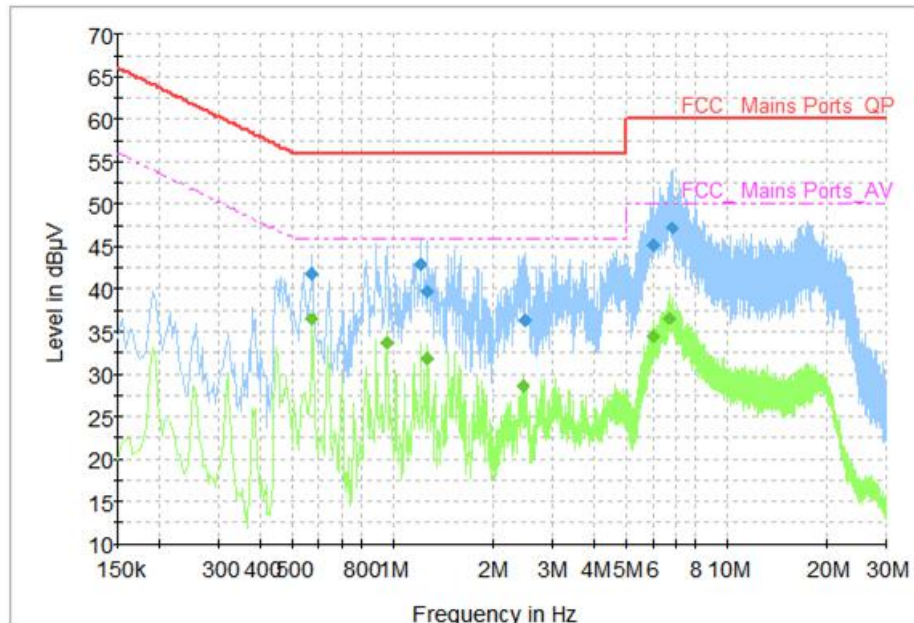
**Final Measurement Detector 1**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.570	40.99	56.00	15.01	N	9.70	31.29
1.206	43.26	56.00	12.74	N	9.70	33.56
1.270	42.43	56.00	13.57	N	9.70	32.73
2.378	38.34	56.00	17.66	N	9.70	28.64
5.942	45.92	60.00	14.08	N	9.80	36.12
6.830	47.65	60.00	12.35	N	9.80	37.85

**Final Measurement Detector 2**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.570	35.19	46.00	10.81	N	9.70	25.49
0.954	33.29	46.00	12.71	N	9.70	23.59
1.526	31.95	46.00	14.05	N	9.70	22.25
2.834	27.78	46.00	18.22	N	9.70	18.08
6.026	34.67	50.00	15.33	N	9.80	24.87
6.830	36.90	50.00	13.10	N	9.80	27.10

**MP3 mode / Charging mode: Set 1**  
**Voltage: 240V**



**Figure B.6 Conducted Emission**

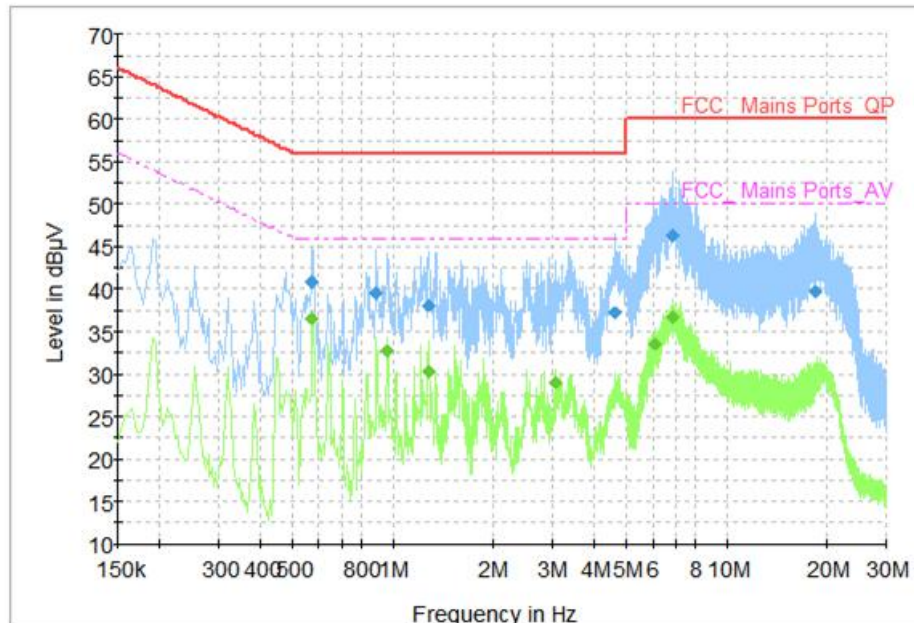
**Final Measurement Detector 1**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.570	41.72	56.00	14.28	N	9.70	32.02
1.206	42.93	56.00	13.07	N	9.70	33.23
1.274	39.82	56.00	16.18	N	9.70	30.12
2.478	36.23	56.00	19.77	N	9.70	26.53
6.022	45.21	60.00	14.79	N	9.80	35.41
6.806	47.20	60.00	12.80	N	9.80	37.40

**Final Measurement Detector 2**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.570	36.44	46.00	9.56	N	9.70	26.74
0.954	33.73	46.00	12.27	N	9.70	24.03
1.274	31.77	46.00	14.23	N	9.70	22.07
2.442	28.62	46.00	17.38	N	9.70	18.92
6.022	34.42	50.00	15.58	N	9.80	24.62
6.730	36.67	50.00	13.33	N	9.80	26.87

**IDEL mode / Charging mode: Set 1**  
**Voltage: 240V**



**Figure B.7 Conducted Emission**

**Final Measurement Detector 1**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.574	40.86	56.00	15.14	N	9.70	31.16
0.894	39.47	56.00	16.53	N	9.70	29.77
1.278	38.14	56.00	17.86	N	9.70	28.44
4.638	37.14	56.00	18.86	N	9.70	27.44
6.862	46.33	60.00	13.67	N	9.80	36.53
18.410	39.59	60.00	20.41	L1	10.10	29.49

**Final Measurement Detector 2**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.574	36.62	46.00	9.38	N	9.70	26.92
0.958	32.68	46.00	13.32	N	9.70	22.98
1.278	30.24	46.00	15.76	N	9.70	20.54
3.086	28.97	46.00	17.03	N	9.70	19.27
6.066	33.57	50.00	16.43	N	9.80	23.77
6.870	36.70	50.00	13.30	N	9.80	26.90



USB mode: Set 2  
Voltage: 240V

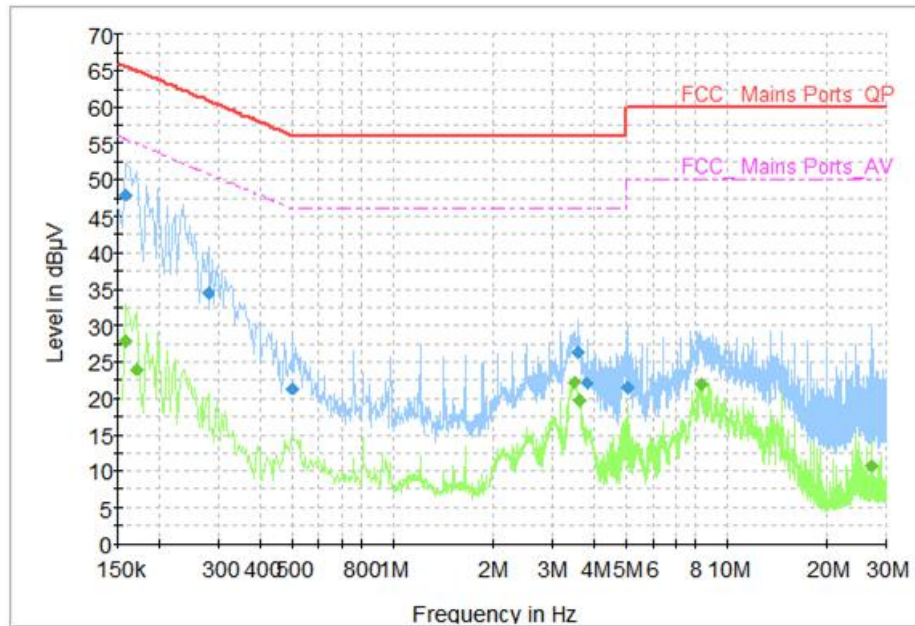


Figure B.8 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.158	47.98	65.57	17.59	N	9.60	38.38
0.278	34.32	60.88	26.55	N	9.60	24.72
0.502	21.30	56.00	34.70	N	9.70	11.60
3.590	26.22	56.00	29.78	L1	9.70	16.52
3.810	21.97	56.00	34.03	L1	9.70	12.27
5.062	21.52	60.00	38.48	N	9.70	11.82

**Final Measurement Detector 2**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.158	27.84	55.57	27.72	N	9.60	18.24
0.170	24.05	54.96	30.91	N	9.60	14.45
3.490	22.14	46.00	23.86	L1	9.70	12.44
3.606	19.68	46.00	26.32	L1	9.70	9.98
8.354	21.78	50.00	28.22	N	9.80	11.98
27.122	10.80	50.00	39.20	L1	10.10	0.70

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