



# TEST REPORT

## No. I22Z70062-EMC01

for

**Samsung Electronics Co., Ltd.**

**Tablet with Bluetooth, WLAN**

**Model Name: SM-T503**

**FCC ID: ZCASMT503**

with

**Hardware Version: REV1.0**

**Software Version: T503.001**

**Issued Date: 2022-03-21**

**Note:**

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The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I22Z70062-EMC01	Rev.0	1 <sup>st</sup> edition	2022-03-21

Note: the latest revision of the test report supersedes all previous versions.

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## **1. Test Laboratory**

### **1.1. Introduction & Accreditation**

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

### **1.2. Testing Location**

#### **CTTL (BDA)**

Address: No. 18A, Kangding Street, Beijing Economic-Technology Development Area, Beijing, 100176, P.R. China

### **1.3. Testing Environment**

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

### **1.4. Project data**

Testing Start Date: 2022-02-25  
Testing End Date: 2022-03-15

### **1.5. Signature**



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Li Yan


(Prepared this test report)



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Zhang Ying

(Reviewed this test report)



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Zhang Xia

Deputy Director of the laboratory  
(Approved this test report)

## **2. Client Information**

### **2.1. Applicant Information**

Company Name: Samsung Electronics Co., Ltd.  
Address: 19 Chapin Rd., Building D Pine Brook, NJ 07058  
City: /  
Postal Code: /  
Country: /  
Contact: Jenni Chun  
Email: j1.chun@samsung.com  
Telephone: +1-201-937-4203

### **2.2. Manufacturer Information**

Company Name: Samsung Electronics. Co., Ltd.  
Address: Samsung R5, Maetan dong 129, Samsung ro  
Youngtong gu, Suwon city 443 742, Korea  
City: /  
Postal Code: /  
Country: /  
Contact: 조성훈(Sunghoon Cho)  
Email: ggobi.cho@samsung.com  
Telephone: +82-10-2722-4159

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

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

Description	Tablet with Bluetooth, WLAN
Model Name	SM-T503
FCC ID	ZCASMT503

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**

<b>EUT ID*</b>	<b>IME/SNI</b>	<b>HW Version</b>	<b>SW Version</b>	<b>Date of receipt</b>
UT16a	2270062UT16a	REV1.0	T503.001	2022.02.23
UT09a	2270062UT09a	REV1.0	T503.001	2022.02.23

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

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

<b>AE ID*</b>	<b>Description</b>	<b>SN</b>	<b>Remarks</b>
AE1	Adapter1	/	/
AE2	Adapter2	/	/
AE3	Adapter3	/	/
AE4	Adapter4	/	/
AE5	Data Cable1	/	/
AE6	Data Cable2	/	/
AE7	Headset	/	/
AE8	Battery	/	/
AE9	Data Cable	/	Type-C
AE10	USB flash disk	/	/

##### **AE1**

Model	EP-TA50JWE
Manufacturer	HAEM Co.,Ltd
Length of cable	/

##### **AE2**

Model	EP-TA50EWE
Manufacturer	RFTECH Co., Ltd.
Length of cable	/

##### **AE3**

Model	EP-TA50EWE
Manufacturer	HAEM Co.,Ltd
Length of cable	/

AE4	
Model	EP-TA50UWE
Manufacturer	HAEM Co.,Ltd
Length of cable	/
AE5	
Model	EP-DT725BWE
Manufacturer	R.F.Tech Electronics (HuiZhou) Co.,Ltd.
Length of cable	/
AE6	
Model	EP-DT725BWE
Manufacturer	DONGGUAN KSD CO.,LTD
Length of cable	/
AE7	
Model	EHS61ASFWE
Manufacturer	DONGGUAN YOUNGBO ELECTRONICS CO.,LTD
Length of cable	/
AE8	
Model	/
Manufacturer	/
Length of cable	/

Note:

1. The USB cables are shielded.
2. AE9 and AE10 are not the AE of EUT, which are provided by Lab for relevant testing.

### **3.4. General Description**

The Equipment under Test (EUT) is a model of Tablet with Bluetooth, WLAN with integrated antenna and inbuilt battery.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

### **3.5. EUT set-ups**

<b>EUT set-up No.</b>	<b>Combination of EUT and AE</b>	<b>Remarks</b>
Set.1	UT16a + AE1 + AE5/AE6+ AE7	Adapter1 +Headset + Rear Camera
Set.2	UT16a + AE2 + AE5/AE6+ AE7	Adapter2 +Headset +MP4(SD)
Set.3	UT16a + AE3 + AE5/AE6+ AE7	Adapter3 +Headset +Front camera
Set.4	UT16a + AE4 + AE5/AE6+ AE7	Adapter4 +Headset +MP4(Memory)
Set.5	UT16a + AE5/AE6 + AE7	USB mode + Camera+ Headset
Set.6	UT16a + UT09a+ AE7+ AE9	OTG + Headset
Set.7	UT16a + AE7 + AE10	OTG +MP4+ Headset

Note: All the set-ups above were tested but only the worst test data of worst set-up showed in this report.

## **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 - Unintentional Radiators	2021
ANSI C63.4	American National Standard for Methods of Measurement of Radio- Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

Note: The test methods have no deviation with standards.



## 5. LABORATORY ENVIRONMENT

**Semi-anechoic chamber SAC-2** 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, 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 6000 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
	BR	Re-use test data from basic model report.

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

## 7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESU26	100376	R&S	2022-09-15	1 year
2	Test Receiver	ESCI	100766	R&S	2023-03-02	1 year
3	LISN	ENV216	101459	R&S	2022-03-09	1 year
4	BiLog Antenna	VULB9163	9163-514	Schwarzbeck	2022-03-22	1 year
5	EMI Antenna	3117	00139065	ETS-Lindgren	2022-09-02	1 year
7	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
8	Keyboard	KU-1601	2048361	Lenovo	N/A	N/A
9	Mouse	EMS-537A	8021S3MC	Lenovo	N/A	N/A
10	PC	M4000e-17	M706RMW2	Lenovo	N/A	N/A

Note:

The LISN which Serial Number is 101459 was before Calibration Due date when used.

## **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 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, charging mode, MP4, MP3, CAMERA, OTG and SD mode. The WIFI and BT function was on and worked in receiving mode.

All equipment is placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions.

Note: I/O information: Printer – USB, Mouse – PS/2, Keyboard – USB.

#### **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/3MHz	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

$G_{\text{PL}}$ : Path Loss

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

Measurement uncertainty (worst case): 30MHz-1GHz: 5.40dB, 1GHz-18GHz: 4.32dB,  $k=2$ .

Note: all the set-up lists in section 3.5 and each operating mode were tested, only the worst test data are showed in this section.

#### Measurement results for Set.1:

##### Adapter1+ Headset+ Rear Camera /Average detector

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17698.500	44.10	-13.9	40.5	17.42	54.0	9.9	V
17826.500	44.18	-13.6	40.4	17.39	54.0	9.8	V
17630.000	44.14	-14.0	40.6	17.59	54.0	9.9	V
17146.000	44.33	-15.0	41.1	18.27	54.0	9.7	V
17147.000	44.20	-15.0	41.1	18.14	54.0	9.8	V
17492.500	44.45	-14.5	40.7	18.20	54.0	9.6	V

##### Adapter1+ Headset+ Rear Camera /Peak detector

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17552.000	57.7	-14.3	40.7	31.29	74.0	16.3	V
16949.000	57.5	-15.1	41.2	31.35	74.0	16.5	H
17698.500	57.3	-13.9	40.5	30.60	74.0	16.7	V
16917.500	57.3	-15.2	41.2	31.22	74.0	16.7	V
16852.000	57.2	-15.3	41.2	31.34	74.0	16.8	V
17798.500	57.2	-13.6	40.5	30.33	74.0	16.8	V

**Measurement results for Set.2**
**Adapter2+ Headset+ MP4 /Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17606.500	44.07	-14.1	40.6	17.57	54.0	9.9	V
16636.000	43.38	-16.1	41.2	18.29	54.0	10.6	V
17776.500	44.24	-13.7	40.5	17.43	54.0	9.8	V
17797.500	44.27	-13.6	40.5	17.42	54.0	9.7	V
17454.000	44.03	-14.6	40.7	17.85	54.0	10.0	V
16839.500	43.82	-15.4	41.2	17.98	54.0	10.2	V

**Adapter2+ Headset+ MP4 /Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17606.500	57.5	-14.1	40.6	30.99	74.0	16.5	V
17660.000	57.4	-14.0	40.6	30.84	74.0	16.6	H
16993.500	57.3	-15.1	41.2	31.16	74.0	16.7	V
16636.000	57.1	-16.1	41.2	32.04	74.0	16.9	V
17036.000	57.1	-15.0	41.2	31.00	74.0	16.9	V
17072.500	57.1	-15.0	41.1	30.97	74.0	16.9	H

**Measurement results for Set.5**
**USB (SD) mode+ Headset +Front Camera /Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
7997.000	39.35	-20.0	35.8	23.51	54.0	14.6	V
17017.000	44.84	-15.1	41.2	18.71	54.0	9.2	V
17029.000	44.80	-15.0	41.2	18.68	54.0	9.2	V
17035.500	44.79	-15.0	41.2	18.68	54.0	9.2	V
17039.500	44.78	-15.0	41.2	18.67	54.0	9.2	V
17041.500	44.74	-15.0	41.2	18.63	54.0	9.3	V

**USB (SD) mode + Headset+ Front Camera /Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
7996.500	52.1	-20.0	35.8	36.20	74.0	21.9	V
16987.500	57.7	-15.1	41.2	31.60	74.0	16.3	V
17743.500	57.4	-13.8	40.5	30.60	74.0	16.6	V
17023.000	57.3	-15.1	41.2	31.20	74.0	16.7	V
17639.500	57.3	-14.0	40.6	30.73	74.0	16.7	H
17631.500	57.2	-14.0	40.6	30.69	74.0	16.8	V

**Measurement results for Set.6**
**OTG mode+ Headset /Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17037.500	44.97	-15.0	41.2	18.86	54.0	9.0	V
17026.500	44.93	-15.1	41.2	18.81	54.0	9.1	V
17021.000	44.91	-15.1	41.2	18.78	54.0	9.1	V
17041.500	44.89	-15.0	41.2	18.78	54.0	9.1	V
17035.500	44.85	-15.0	41.2	18.74	54.0	9.1	V
17022.500	44.85	-15.1	41.2	18.72	54.0	9.2	V

**OTG mode+ Headset /Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17104.000	57.7	-15.0	41.1	31.64	74.0	16.3	V
16849.000	57.5	-15.3	41.2	31.61	74.0	16.5	H
16960.500	57.5	-15.1	41.2	31.34	74.0	16.5	H
17482.000	57.3	-14.5	40.7	31.08	74.0	16.7	H
17806.000	57.2	-13.6	40.5	30.34	74.0	16.8	V
17747.000	57.2	-13.7	40.5	30.42	74.0	16.8	H



### Adapter1+ Headset+ Rear Camera, Set.1

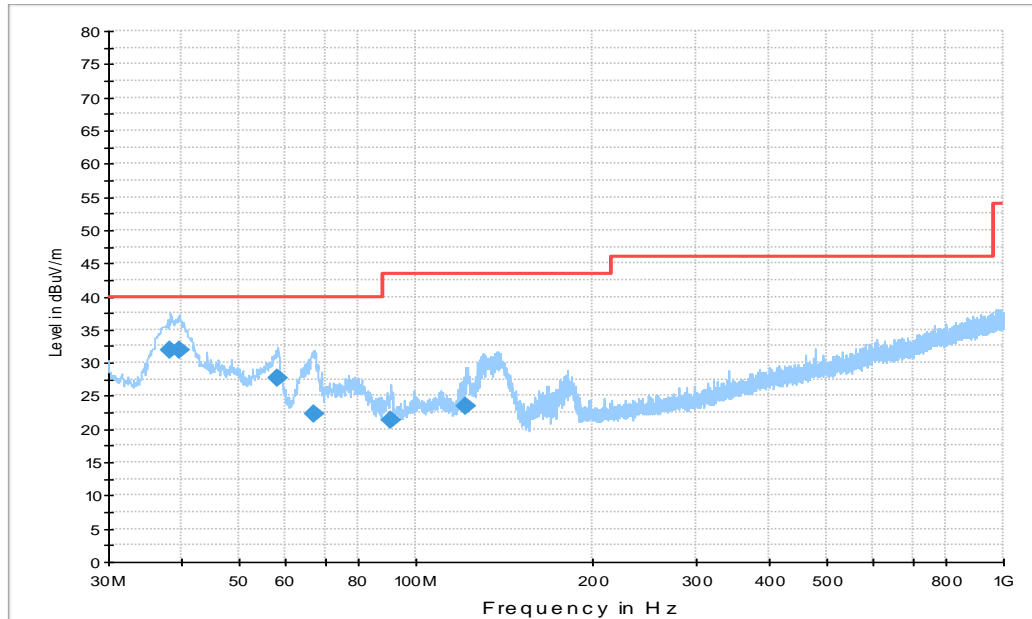
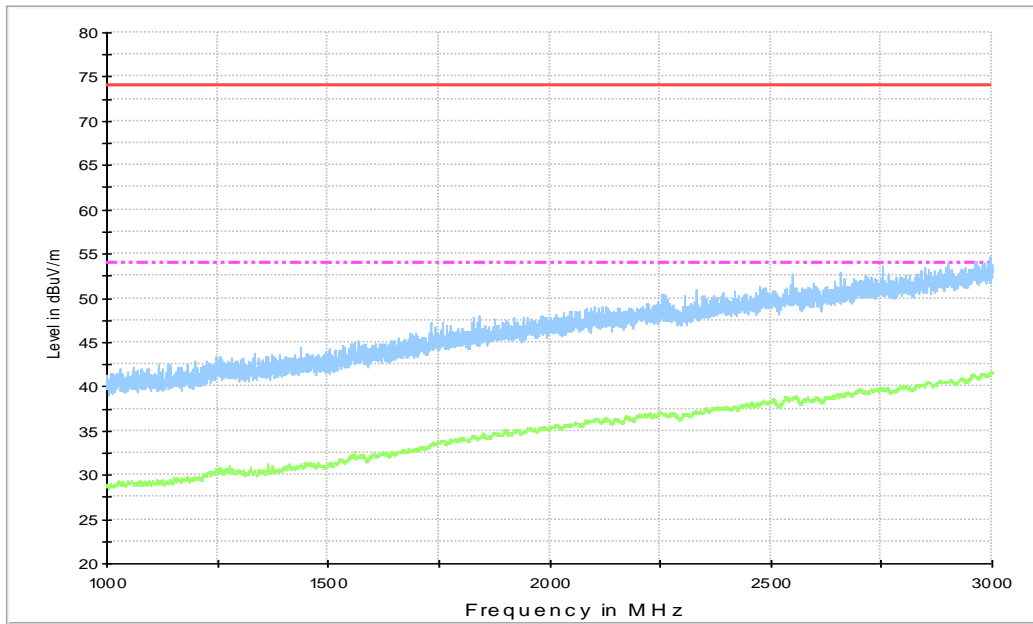


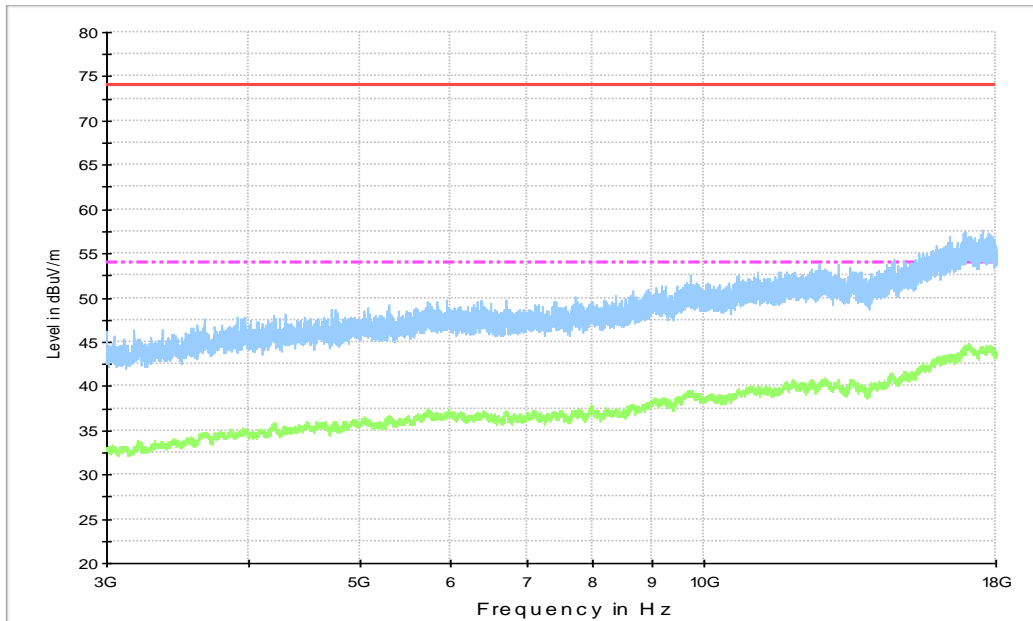
Figure A.1 Radiated Emission from 30MHz to 1GHz

### Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
38.245000	31.9	110.0	V	41.0	-0.1	8.1	40.0
39.506000	32.0	100.0	V	105.0	0.1	8.0	40.0
58.324000	27.6	100.0	V	296.0	-0.3	12.4	40.0
67.054000	22.2	119.0	V	131.0	-2.6	17.8	40.0
90.722000	21.4	125.0	V	-38.0	-2.6	22.1	43.5
121.37400	23.5	225.0	H	-4.0	-3.6	20.0	43.5

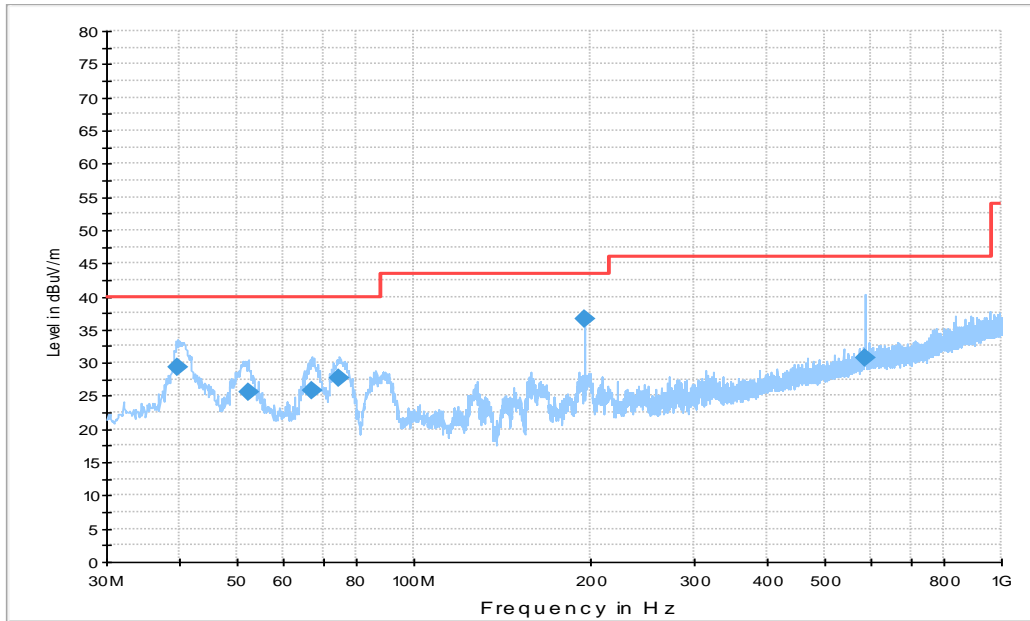


**Figure A.2 Radiated Emission from 1GHz to 3GHz**



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

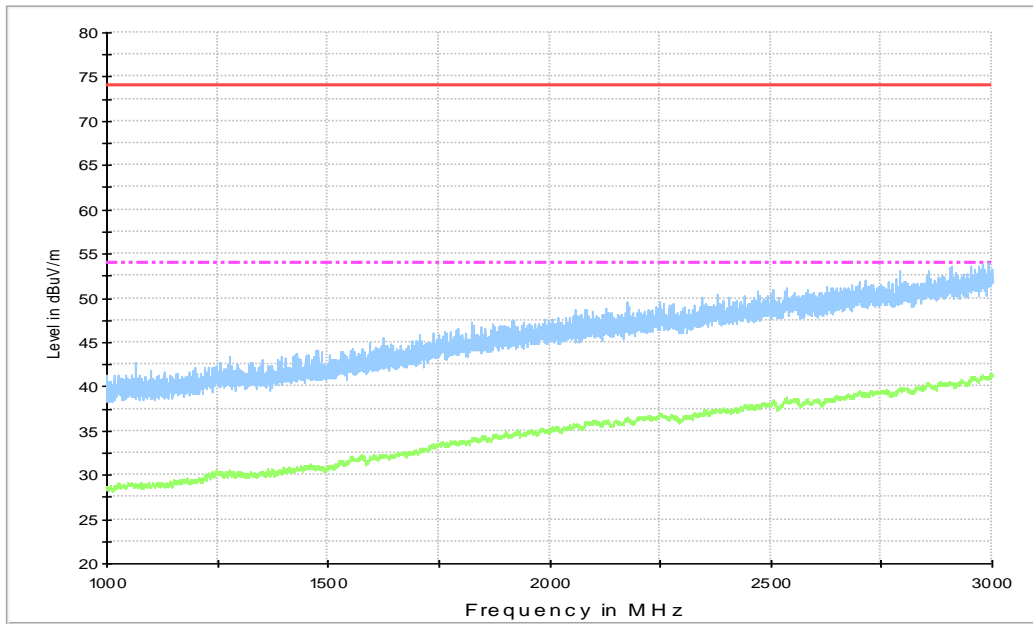
**Adapter2+ Headset+ MP4, Set.2**



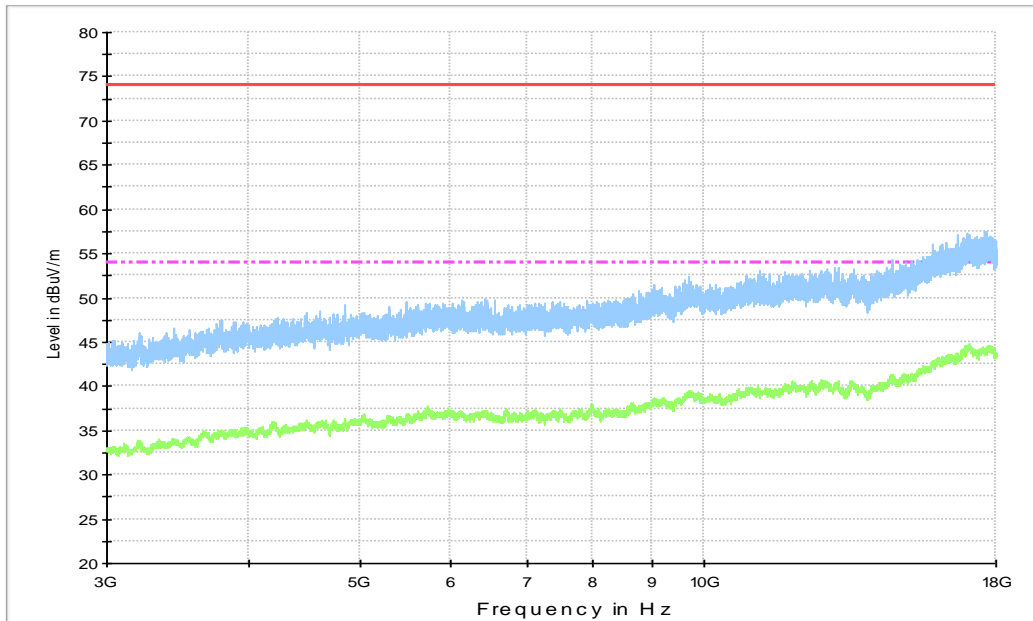
**Figure A.4 Radiated Emission from 30MHz to 1GHz**

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
39.700000	29.3	100.0	V	0.0	-0.5	10.7	40.0
52.213000	25.6	100.0	V	109.0	-0.2	14.4	40.0
66.957000	25.8	100.0	V	-7.0	-3.2	14.2	40.0
74.717000	27.8	100.0	V	245.0	-5.3	12.2	40.0
194.99700	36.5	100.0	V	113.0	-1.8	7.0	43.5
585.03400	30.8	100.0	V	270.0	8.0	15.2	46.0



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



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

### USB (SD) mode+ Headset +Front Camera, Set.5

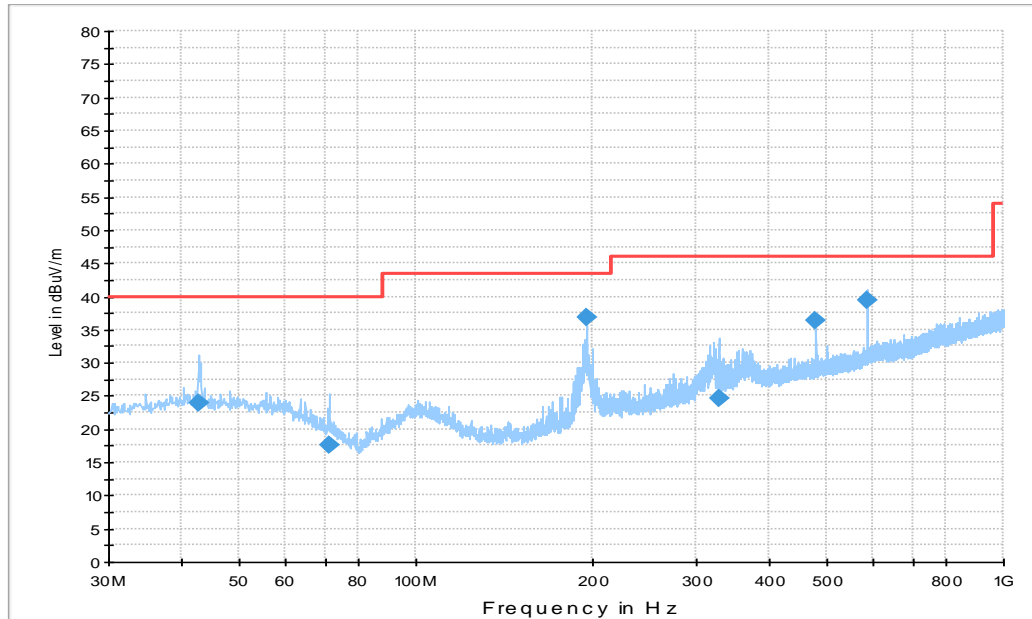
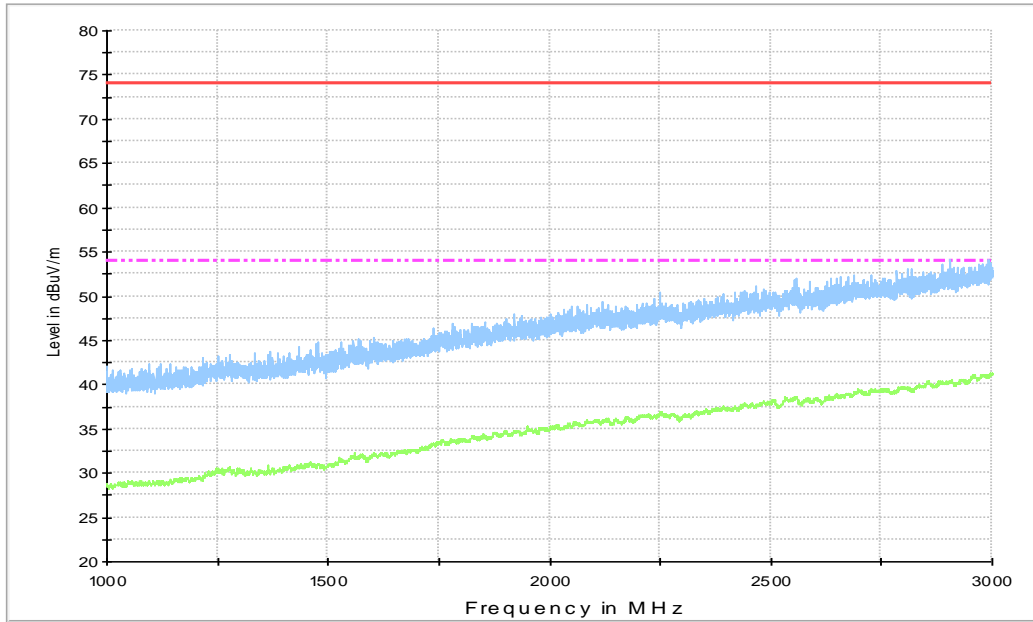


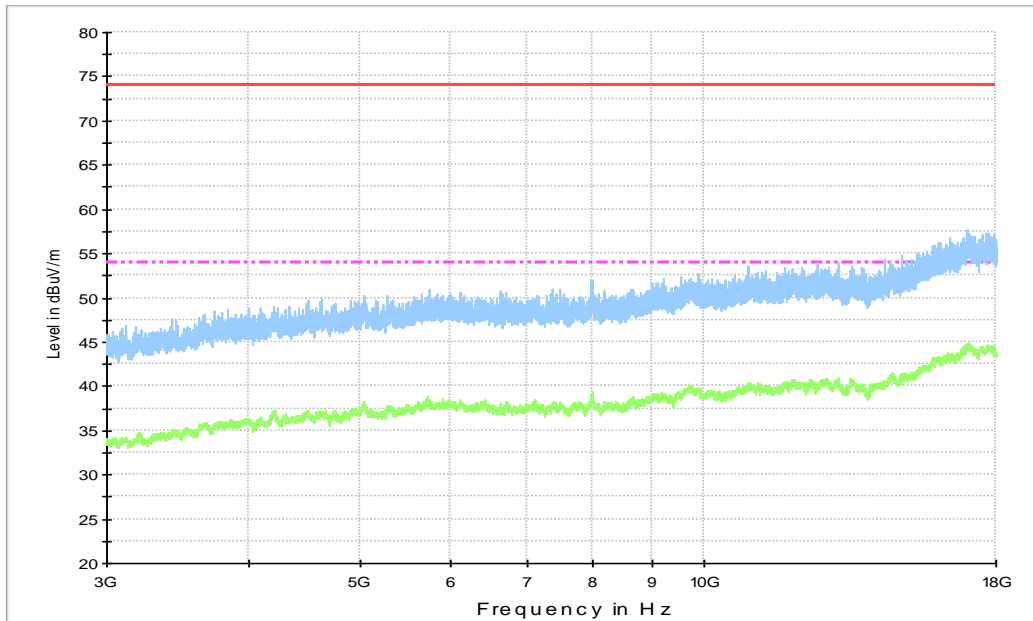
Figure A.7 Radiated Emission from 30MHz to 1GHz

### Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
42.707000	23.8	119.0	V	296.0	0.1	16.2	40.0
71.128000	17.6	100.0	V	272.0	-3.8	22.4	40.0
194.99700	36.8	100.0	V	135.0	-1.4	6.7	43.5
327.20800	24.7	171.0	V	0.0	2.1	21.3	46.0
479.98300	36.4	125.0	V	181.0	5.9	9.6	46.0
585.03400	39.3	150.0	V	303.0	7.8	6.7	46.0



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



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

### OTG mode+ Headset, Set.6

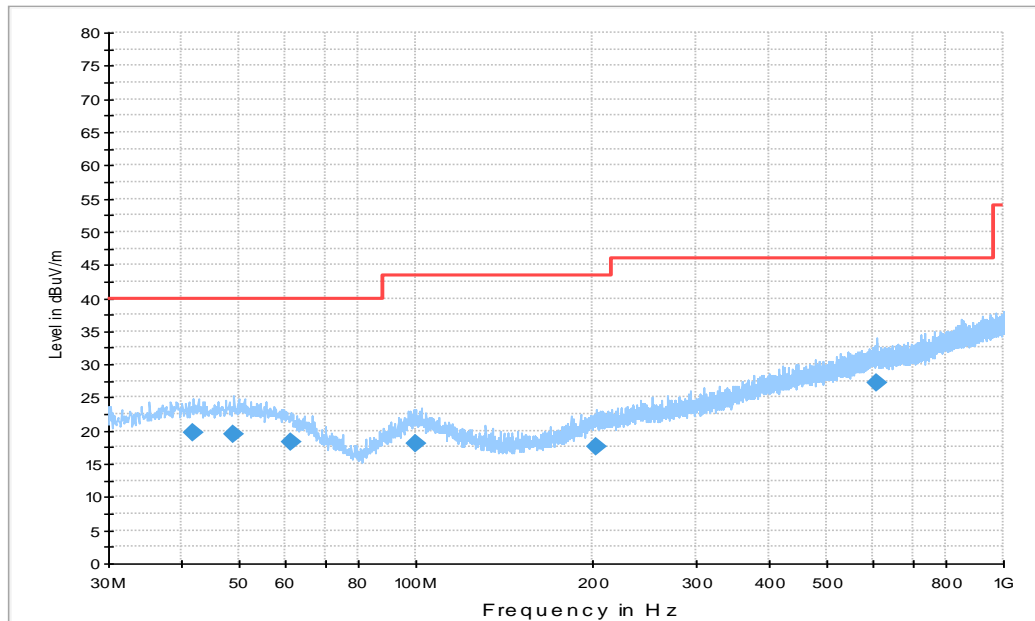
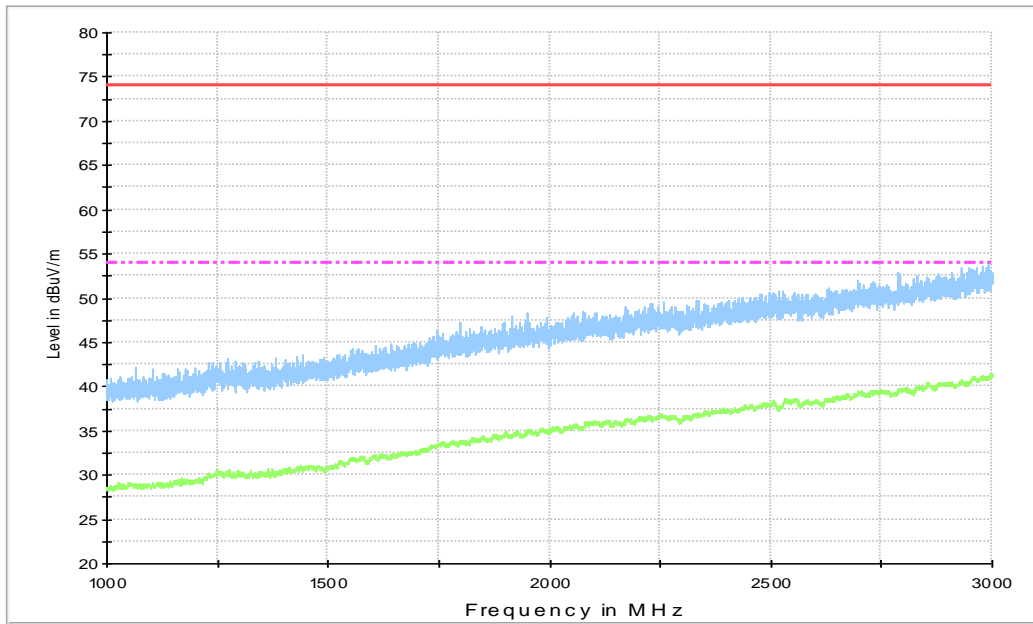


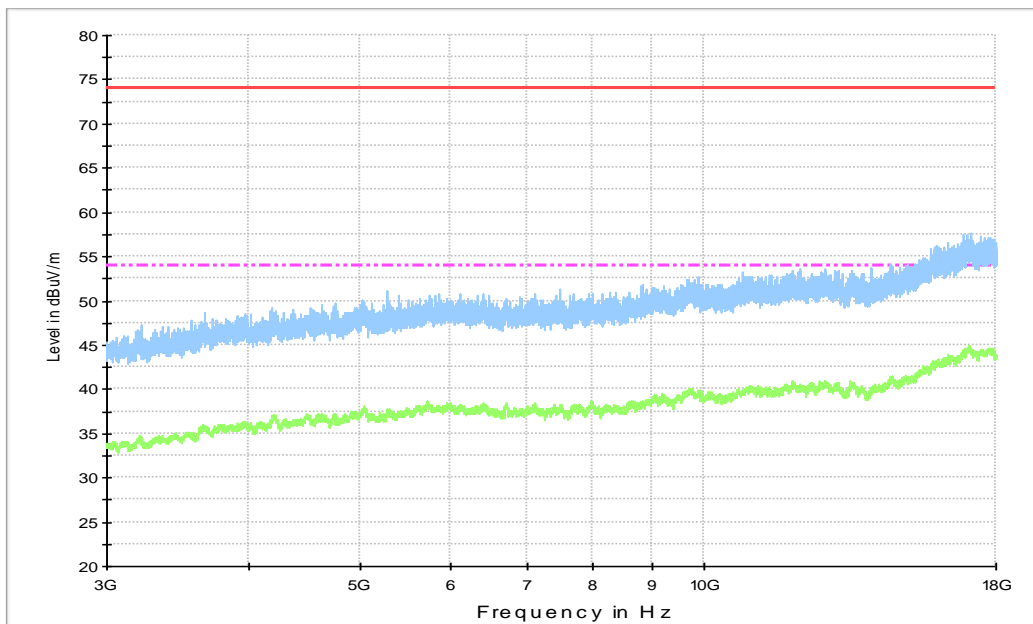
Figure A.10 Radiated Emission from 30MHz to 1GHz

### Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
41.737000	19.7	111.0	H	28.0	-0.4	20.3	40.0
49.109000	19.5	100.0	V	-33.0	-0.1	20.5	40.0
61.331000	18.4	100.0	H	45.0	-1.1	21.6	40.0
99.840000	18.0	100.0	H	219.0	-1.1	25.5	43.5
202.369000	17.5	100.0	V	276.0	-1.3	26.0	43.5
607.150000	27.2	125.0	H	124.0	8.5	18.8	46.0



**Figure A.11 Radiated Emission from 1GHz to 3GHz**



**Figure A.12 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, charging mode, MP4, MP3, CAMERA and SD mode.

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 (dB $\mu$ 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

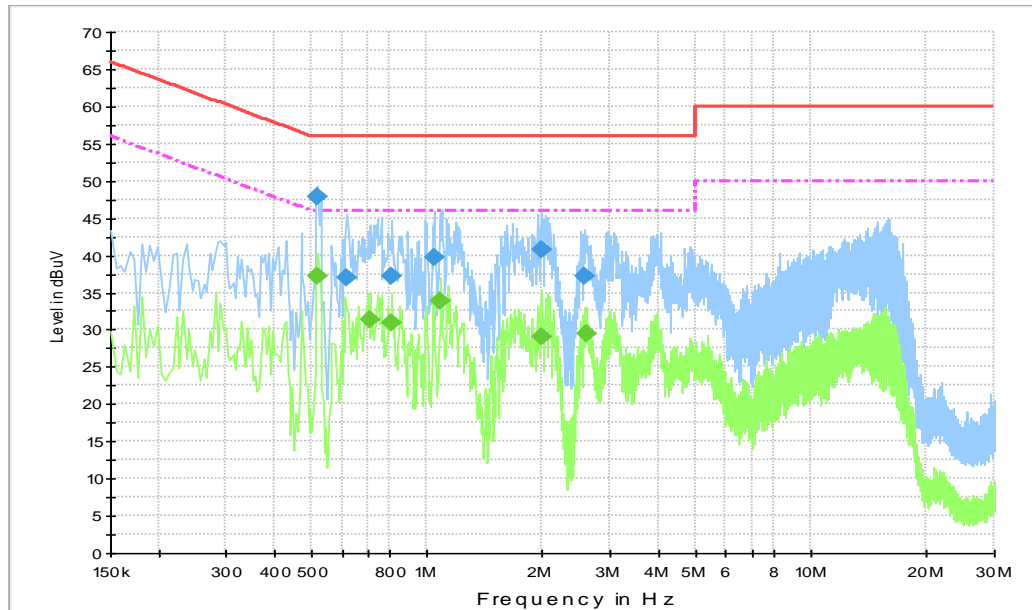
RBW/IF bandwidth	Sweep Time(s)
9kHz	1

### A.2.5 Measurement Results

Measurement uncertainty:  $U= 3.10$  dB,  $k=2$ .

Note: all the set-up lists in section 3.5 and each operating mode were tested, only the worst test data are showed in this section.

#### Set.2



**Figure A.13 Conducted Emission**

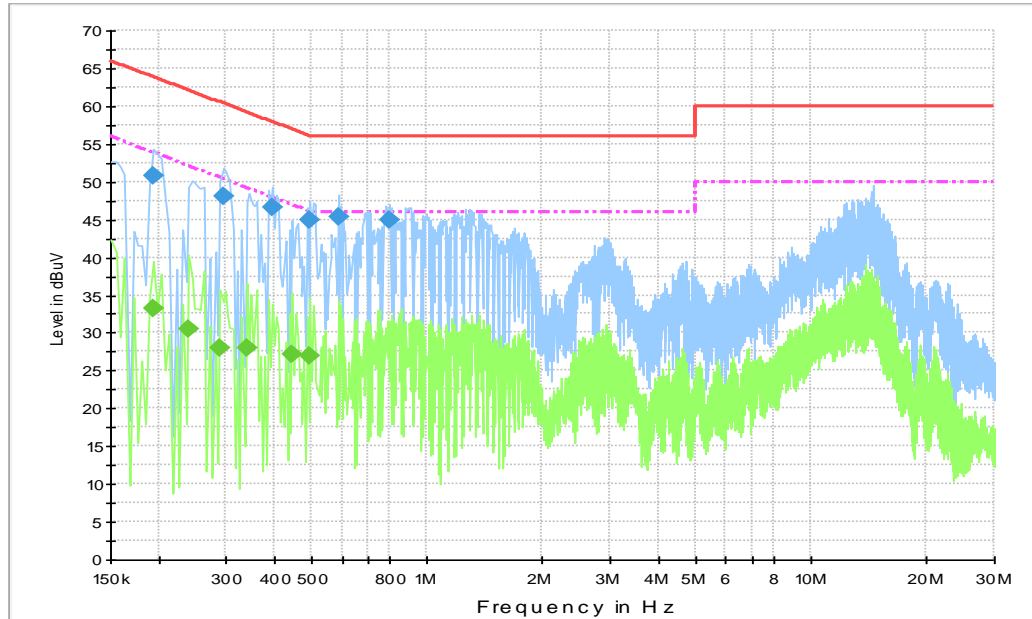
Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

#### Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.519000	47.9	5000.0	9.000	On	L1	19.9	8.1	56.0
0.618000	37.1	5000.0	9.000	On	N	19.8	18.9	56.0
0.811500	37.2	5000.0	9.000	On	N	19.8	18.8	56.0
1.045500	39.7	5000.0	9.000	On	L1	19.7	16.3	56.0
1.981500	40.8	5000.0	9.000	On	L1	19.7	15.2	56.0
2.571000	37.3	5000.0	9.000	On	L1	19.6	18.7	56.0

#### Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.519000	37.1	5000.0	9.000	On	N	19.9	8.9	46.0
0.712500	31.4	5000.0	9.000	On	L1	19.8	14.6	46.0
0.811500	31.0	5000.0	9.000	On	L1	19.8	15.0	46.0
1.086000	33.8	5000.0	9.000	On	L1	19.7	12.2	46.0
1.981500	29.0	5000.0	9.000	On	N	19.7	17.0	46.0
2.607000	29.4	5000.0	9.000	On	L1	19.6	16.6	46.0

**Set.4**

**Figure A.14 Conducted Emission**

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

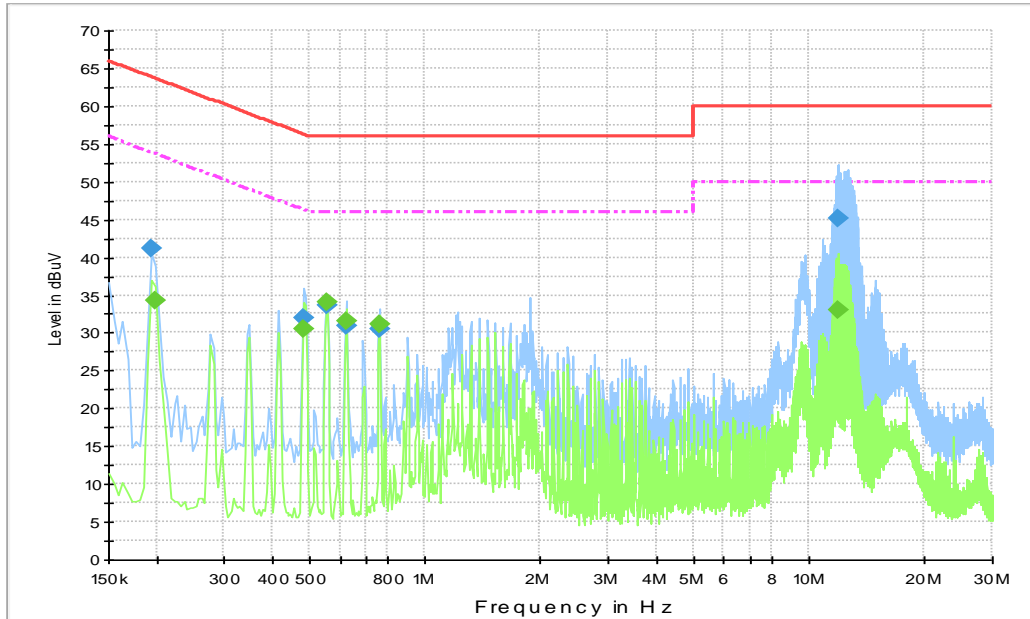
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.195000	50.8	5000.0	9.000	On	L1	19.9	13.0	63.8
0.294000	48.1	5000.0	9.000	On	N	19.9	12.3	60.4
0.397500	46.5	5000.0	9.000	On	L1	19.9	11.4	57.9
0.496500	44.9	5000.0	9.000	On	L1	19.9	11.1	56.1
0.586500	45.4	5000.0	9.000	On	L1	19.8	10.6	56.0
0.802500	44.9	5000.0	9.000	On	N	19.8	11.1	56.0

**Final Result 2**

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.195000	33.2	5000.0	9.000	On	N	19.9	20.6	53.8
0.240000	30.5	5000.0	9.000	On	N	19.9	21.6	52.1
0.289500	28.0	5000.0	9.000	On	N	19.9	22.5	50.5
0.339000	27.9	5000.0	9.000	On	N	19.8	21.3	49.2
0.447000	27.1	5000.0	9.000	On	N	19.9	19.8	46.9
0.496500	26.9	5000.0	9.000	On	N	19.9	19.2	46.1

### USB (SD) mode, Set.5



**Figure A.15 Conducted Emission**

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

#### Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.195000	41.1	5000.0	9.000	On	N	19.9	22.7	63.8
0.483000	32.0	5000.0	9.000	On	L1	19.9	24.3	56.3
0.555000	33.6	5000.0	9.000	On	N	19.9	22.4	56.0
0.622500	30.8	5000.0	9.000	On	N	19.8	25.2	56.0
0.762000	30.4	5000.0	9.000	On	N	19.8	25.6	56.0
11.868000	45.1	5000.0	9.000	On	N	19.8	14.9	60.0

#### Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.199500	34.3	5000.0	9.000	On	N	19.9	19.3	53.6
0.483000	30.5	5000.0	9.000	On	N	19.9	15.8	46.3
0.555000	34.0	5000.0	9.000	On	L1	19.9	12.0	46.0
0.622500	31.6	5000.0	9.000	On	L1	19.8	14.4	46.0
0.762000	31.0	5000.0	9.000	On	L1	19.8	15.0	46.0
11.877000	32.9	5000.0	9.000	On	L1	19.8	17.1	50.0



**ANNEX B: Persons involved in this testing**

Test Item	Tester
Radiated Emission	Zhao Wenhui
Conducted Emission	Guo Qian

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