TEST REPORT

No. 25T04Z200152-001

for

Samsung Electronics Co., Ltd.

Tablet with Bluetooth, WLAN

Model Name: SM-X133

with

FCC ID: ZCASMX133

Hardware Version: REV1.0

Software Version: X133.001

Issued Date: 2025-07-15

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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REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04Z200152-001	Rev.0	1st edition	2025-07-15

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 American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA 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: 2025-06-09

Testing End Date: 2025-06-30

1.5. Signature

Li Yan

(Prepared this test report)

Zhang Ying

(Reviewed this test report)

Shi Suolan

Deputy Director of the laboratory

(Approved this test report)

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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 Person:	Jenni Chun
Contact Email	j1.chun@samsung.com
Telephone:	+1-201-937-4203
Fax	/

2.2. Manufacturer Information

Company Name:	Samsung Electronics. Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea
City:	/
Postal Code:	/
Country:	/
Contact Person:	Kobe Cho
Contact Email	ggobi.cho@samsung.com
Telephone:	+82-10-2722-4159
Fax	/

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

3.1. About EUT

Description	Tablet with Bluetooth, WLAN
Model name	SM-X133
FCC ID	ZCASMX133

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*	IMEI/SN	HW Version	SW Version
UT01a	2504200152UT01a	REV1.0	X133.001
UT02a	2504200152UT02a	REV1.0	X133.001

*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*	Name	Model	Manufacturer
AE1-1	Battery 1	HQ-3565S	SCUD(Fujian) Electronics Co., Ltd.
AE1-2	Battery 2	HQ-6739SDS	SCUD(Fujian) Electronics Co., Ltd.
AE2-1*	Adapter 1	EP-T1510	DongYang
AE2-2*	Adapter 2	EP-TA200	RFTECH
AE3-1	Date Cable C-C	EP-DN980BWE	Cresyn
AE3-2	Date Cable C-C	EP-DN980BWE	Luxshare
AE4*	Date Cable C-A	EP-DR140AWE	Cresyn
AE5*	Headset	EHS61ASFWE	/
AE6*	PC	/	/
AE7*	SD card	/	/
AE8*	MHD	/	/

* The USB cables are shielded.

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

* AE2-1, AE2-2, AE4 and AE5 are not the AE for EUT, provided by the client for relevant tests.

* AE6, AE7 and AE8 are not the AE for EUT, provided by the Lab for relevant tests.

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3.4. EUT set-ups

Set-up

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT + AE2-1 + AE3-1/2 + AE5	Adapter1+ headset
Set.2	EUT + AE2-1 + AE3-1/2	Adapter1
Set.3	EUT + AE2-2 + AE4 + AE5	Adapter2+ headset
Set.4	EUT + AE3-1/2 + EUT + (AE5)	EUT+EUT
Set.5	EUT + AE3-1/2 + MHD+ AE5	EUT+MHD
Set.6	EUT + AE3-1/2 + PC+ SD + AE5	Type C communication with PC
Set.7	EUT + AE4 + PC + SD+ AE5	USB communication with PC+SD

Test mode

Mode No.	Operating mode	Remarks
mode.1	MP4 Play	RE, CE
mode.2	Front Camera	RE, CE
mode.3	Rear Camera	RE, CE
mode.4	OTG Phone to Phone	RE only
mode.5	OTG + Mobile HD+MP4	RE only
mode.6	USB DATA (TYPE C)	RE, CE
mode.7	USB DATA (USB, SD TO PC)	RE, CE

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4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters are supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

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

Reference	Title	Version
FCC 47 CFR Part 15, Subpart B	Radio frequency devices - Unintentional Radiators	2023
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.

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5. 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)	B.1	P	**CTTL(BDA)**
2	Conducted Emission	15.107(a)	B.2	P	**CTTL(BDA)**

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6. Test Facilities Utilized

Test Equipment

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURER	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESU26	100376	R&S	2026-06-20	1 year
2	Test Receiver	ESCI	100766	R&S	2026-05-07	1 year
3	LISN	ENV216	101459	R&S	2026-05-07	1 year
4	BiLog Antenna	VULB9163	01177	Schwarzbeck	2025-11-19	1 year
5	EMI Antenna	3117	00119021	ETS-Lindgren	2025-09-18	1 year
6	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
7	Keyboard	KU-1601	2048361	Lenovo	N/A	N/A
8	Mouse	EMS-537A	8021S3MC	Lenovo	N/A	N/A
9	PC	M4000e-17	M706RMW2	Lenovo	N/A	N/A
10	PC	T14S	PC-1RP0TY	Lenovo	N/A	N/A

Test Software

Test Item	Test Software and Version	Software Vendor
Radiated Continuous Emission	EMC32 V8.53.0	R&S
Conducted Emission	EMC32 V8.53.0	R&S

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7. Measurement Uncertainty

Where relevant, the following measurement uncertainty (worse case) levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Location 1: CTTL (huayuan North Road)

Test item	Frequency ranges	Measurement uncertainty
Radiated Emission	30MHz-1GHz	4.72dB(*k*=2)
	1GHz-18GHz	4.84dB(*k*=2)
Conducted Emission	150kHz-30MHz	3.08dB(*k*=2)

Location 2: CTTL (BDA)

Test item	Frequency ranges	Measurement uncertainty
Radiated Emission	30MHz-1GHz	5.73dB(*k*=2)
	1GHz-18GHz	5.58dB(*k*=2)
Conducted Emission	150kHz-30MHz	3.10dB(*k*=2)

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ANNEX A: EUT parameters

Description	Tablet with Bluetooth, WLAN	
Model name	SM-X133	
Marketing name	Galaxy Tab A11	
Brand name	SAMSUNG	
Cellular Bands	☐GSM	/
	☐CDMA	/
	☐WCDMA	/
	☐LTE	/
	☐5G NR SA	/
	☐5G NR NSA	/
Unlicensed Radio	☒Wi-Fi 2.4GHz	802.11b/g/n(20MHz)
	☒Wi-Fi 5GHz	802.11a/n(20MHz,40MHz)/ac(20MHz,40MHz,80MHz)
	☒Wi-Fi 5.8GHz	802.11a/n(20MHz,40MHz)/ac(20MHz,40MHz,80MHz)
	☒Bluetooth	☒EDR ☐BLE4 ☒BLE5
Other	☒GNSS	☒GPS ☐BDS ☒Gallileo ☐Glonass
	☐FM ☒MP3 ☒MP4 ☒Camera ☒USB ☐NFC ☒External memory	

For more EUT information please refers to the manufacturer's specifications or user's manual.
For the EUT photographs please refers to the External photos and internal photos document.

Disclaimer: The EUT information provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

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ANNEX B: MEASUREMENT RESULTS

B.1 Radiated Emission

Reference

FCC: CFR Part 15.109(a).

B.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator 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 and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions. 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.

For the test setup photographs please see the test setup photos document.

B.1.2 EUT Operating Mode

The EUT is operating in the USB mode, charging mode, MP3, MP4, CAMERA, OTG and SD 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.

B.1.3 Measurement Limit

Frequency range (MHz)	Field strength limit (μV/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.

B.1.4 Test Condition

Voltage（V）	Frequency（Hz）
120	60

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

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B.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.

Note: all the set-up and operating mode list in section 3.4 were tested, only the worst test data are showed in this section.

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Set.1+Mode3, Rear Camera

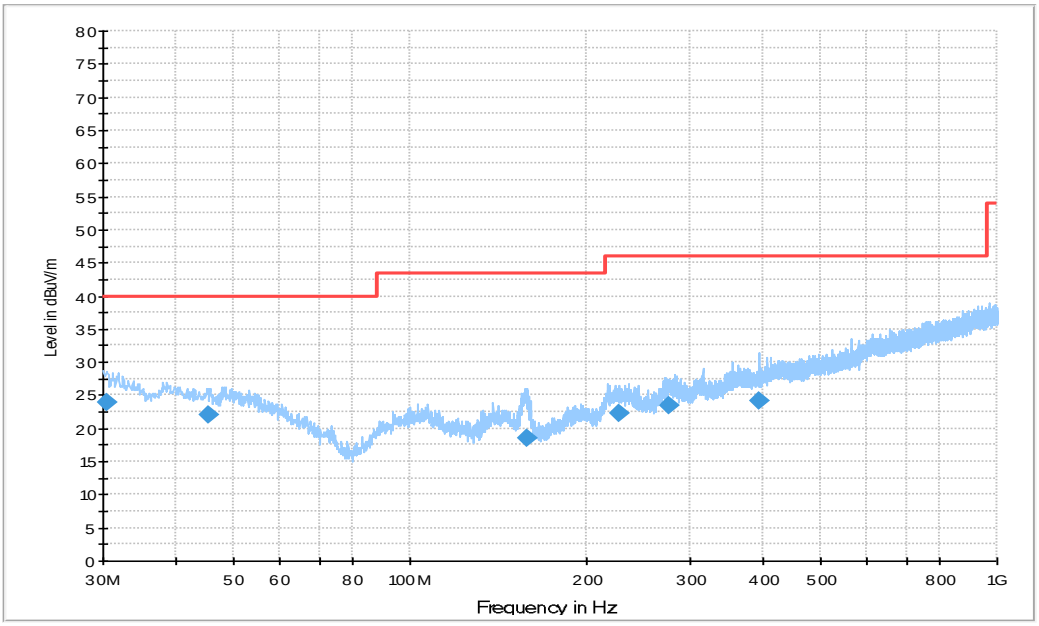

Figure A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
30.482000	23.9	100.0	V	292.0	-3.6	16.1	40.0
45.226000	22.0	100.0	V	112.0	0.3	18.0	40.0
158.04300	18.4	100.0	V	-16.0	-4.1	25.1	43.5
227.49500	22.3	125.0	H	202.0	0.0	23.7	46.0
276.01200	23.4	113.0	H	196.0	0.8	22.6	46.0
394.52900	24.1	100.0	V	267.0	5.2	21.9	46.0

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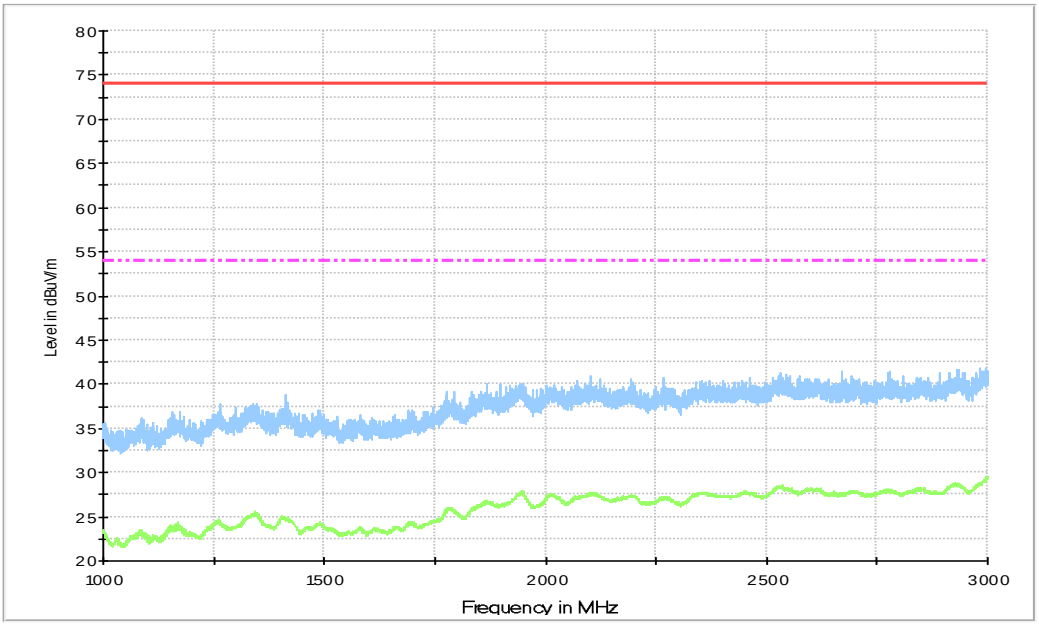

Figure A.2 Radiated Emission from 1GHz to 3GHz

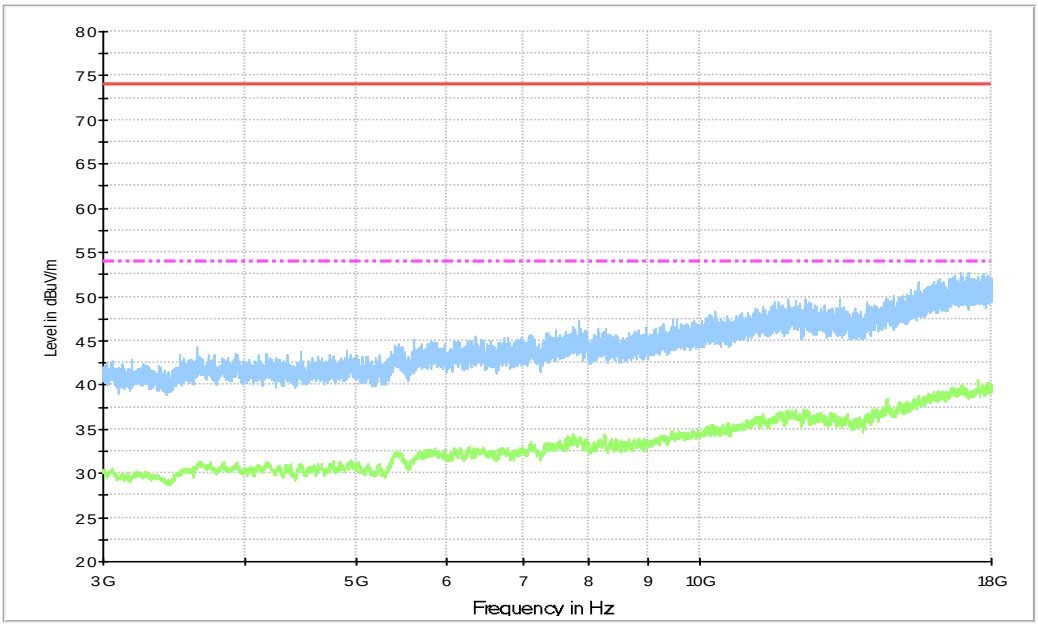

Figure A.3 Radiated Emission from 3GHz to 18GHz

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Average detector result

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)
17540.00	39.76	-20.63	40.76	19.62	54.00	14.24	H
17540.50	39.71	-20.67	40.76	19.62	54.00	14.29	H
17539.00	39.66	-20.72	40.76	19.62	54.00	14.34	H
17541.00	39.60	-20.71	40.76	19.55	54.00	14.40	H
17538.00	39.58	-20.82	40.76	19.64	54.00	14.42	V
17539.50	39.57	-20.67	40.76	19.49	54.00	14.43	V

Peak detector result

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)
17018.50	51.97	-22.07	41.08	32.96	74.00	22.03	H
16937.50	51.75	-22.41	41.29	32.88	74.00	22.25	H
16674.50	51.73	-22.49	41.37	32.85	74.00	22.27	H
17540.00	51.71	-20.63	40.76	31.57	74.00	22.29	H
16239.00	51.58	-22.86	40.90	33.54	74.00	22.42	H
17163.00	51.54	-22.36	40.94	32.96	74.00	22.46	V

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Set.2+Mode1, MP4

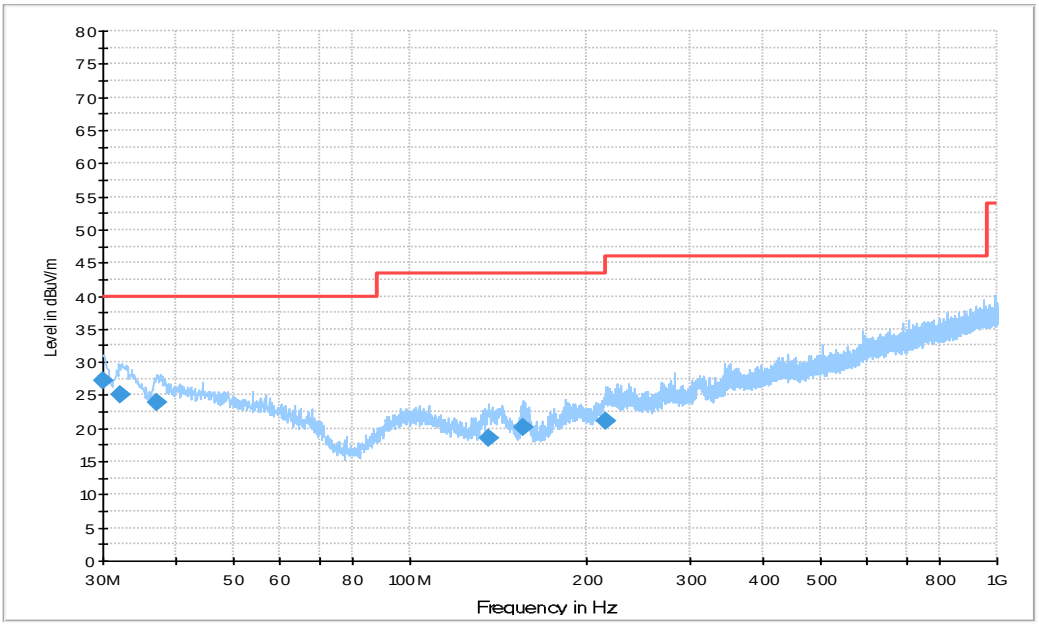

Figure A.4 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
30.000000	27.1	100.0	V	0.0	-3.6	12.9	40.0
32.191000	25.0	100.0	V	164.0	-3.5	15.0	40.0
37.101000	23.8	100.0	V	22.0	-1.8	16.2	40.0
136.01800	18.6	100.0	V	178.0	-4.6	24.9	43.5
155.76900	20.2	100.0	V	190.0	-4.2	23.3	43.5
216.12600	21.1	100.0	V	-22.0	-0.8	24.9	46.0

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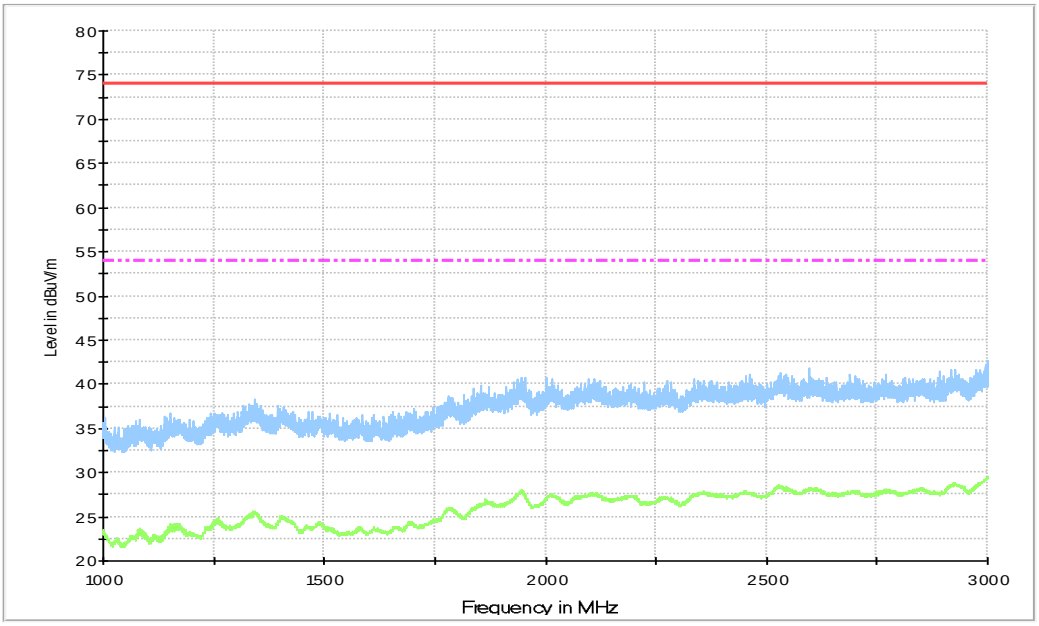

Figure A.5 Radiated Emission from 1GHz to 3GHz

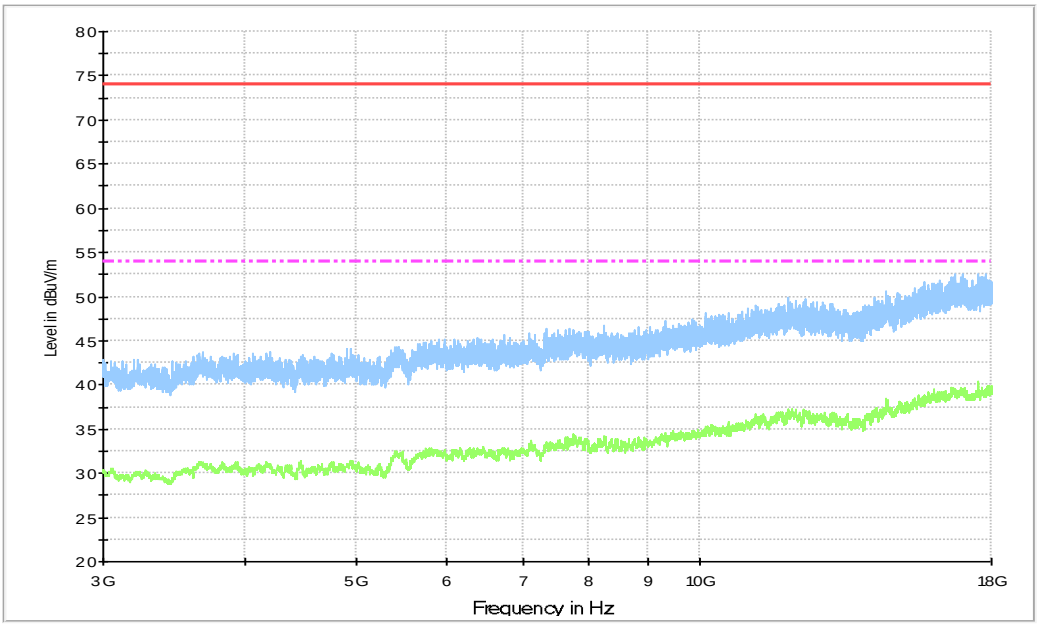

Figure A.6 Radiated Emission from 3GHz to 18GHz

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Average detector result

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)
17539.00	39.54	-20.72	40.76	19.51	54.00	14.46	H
17539.50	39.46	-20.67	40.76	19.38	54.00	14.54	H
17540.00	39.36	-20.63	40.76	19.23	54.00	14.64	H
17542.50	39.36	-20.83	40.76	19.44	54.00	14.64	H
17540.50	39.34	-20.67	40.76	19.25	54.00	14.66	V
17538.00	39.34	-20.82	40.76	19.40	54.00	14.66	H

Peak detector result

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)
17460.50	52.27	-21.71	40.76	33.22	74.00	21.73	H
17544.00	51.71	-20.96	40.76	31.92	74.00	22.29	V
16591.00	51.69	-22.29	41.28	32.70	74.00	22.31	V
17009.00	51.60	-22.14	41.09	32.65	74.00	22.40	H
17888.00	51.52	-20.98	40.51	31.98	74.00	22.48	H
17902.50	51.41	-21.14	40.50	32.05	74.00	22.59	H

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Set.3+Mode2, Front Camera

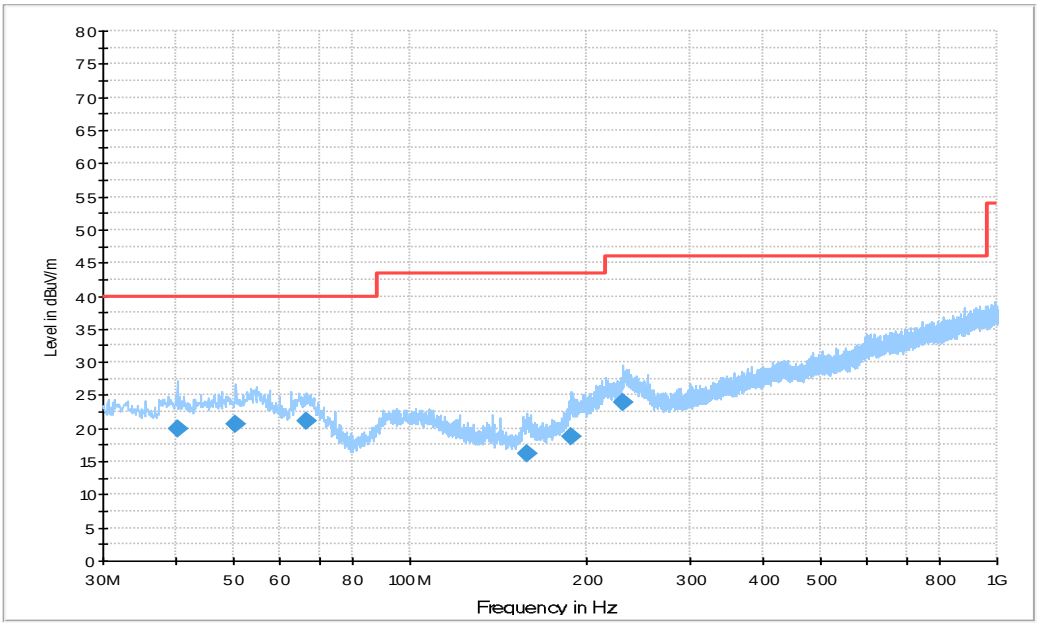

Figure A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
40.168000	19.9	113.0	V	196.0	-0.6	20.1	40.0
50.584000	20.6	100.0	V	105.0	0.4	19.4	40.0
66.783000	21.2	100.0	V	-22.0	-2.9	18.8	40.0
158.12000	16.2	125.0	V	180.0	-4.1	27.3	43.5
188.78600	18.9	125.0	V	-16.0	-1.7	24.6	43.5
230.67600	24.0	100.0	V	90.0	0.3	22.0	46.0

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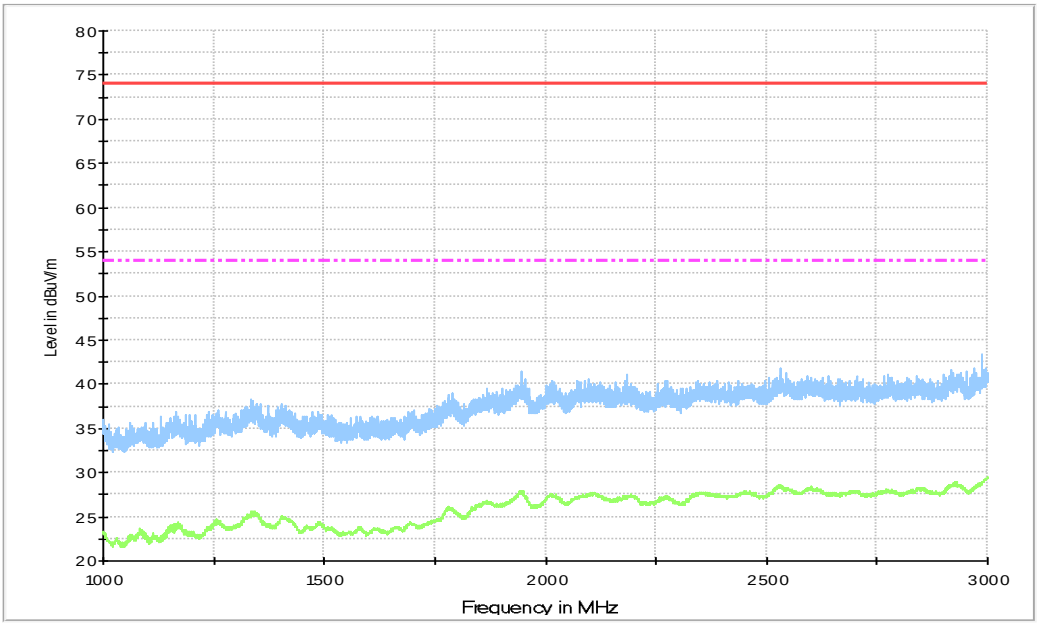

Figure A.8 Radiated Emission from 1GHz to 3GHz

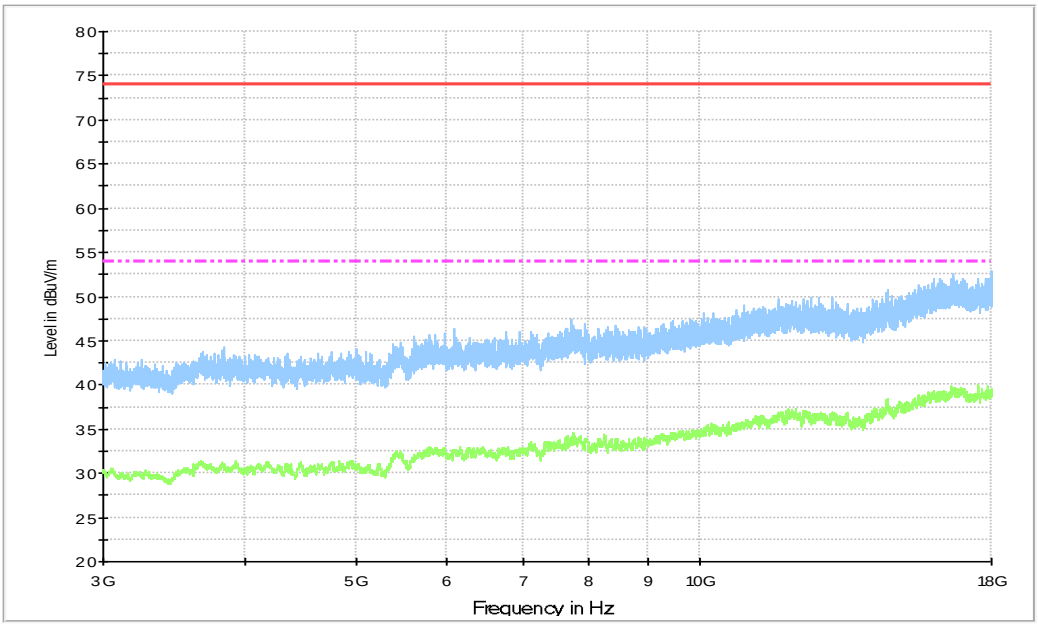

Figure A.9 Radiated Emission from 3GHz to 18GHz

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Average detector result

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)
17540.00	39.66	-20.63	40.76	19.52	54.00	14.34	H
17537.50	39.50	-20.87	40.76	19.61	54.00	14.50	H
17540.50	39.42	-20.67	40.76	19.33	54.00	14.58	H
17539.00	39.41	-20.72	40.76	19.37	54.00	14.59	H
17541.00	39.41	-20.71	40.76	19.36	54.00	14.59	V
17541.50	39.41	-20.75	40.76	19.40	54.00	14.59	H

Peak detector result

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)
17127.50	52.39	-22.30	40.97	33.72	74.00	21.61	V
17542.50	51.81	-20.83	40.76	31.88	74.00	22.19	H
16937.50	51.58	-22.41	41.29	32.71	74.00	22.42	H
16637.50	51.51	-22.64	41.34	32.82	74.00	22.49	H
17900.50	51.47	-21.15	40.50	32.12	74.00	22.53	H
17541.00	51.43	-20.71	40.76	31.38	74.00	22.57	H

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Set.4+Mode4, OTG Charging

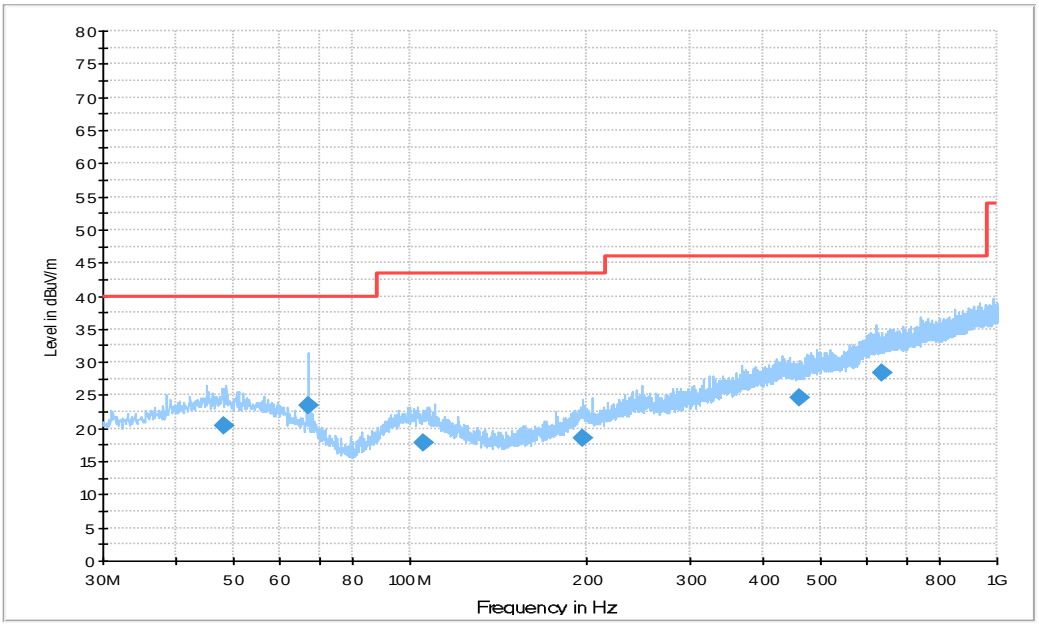

Figure A.10 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
48.045000	20.4	125.0	V	0.0	0.5	19.6	40.0
67.268000	23.5	125.0	V	267.0	-3.0	16.5	40.0
105.03800	17.8	125.0	H	190.0	-1.2	25.7	43.5
196.83700	18.5	125.0	H	292.0	-0.5	25.0	43.5
459.22200	24.7	113.0	H	68.0	6.0	21.3	46.0
637.85900	28.4	100.0	V	180.0	9.9	17.6	46.0

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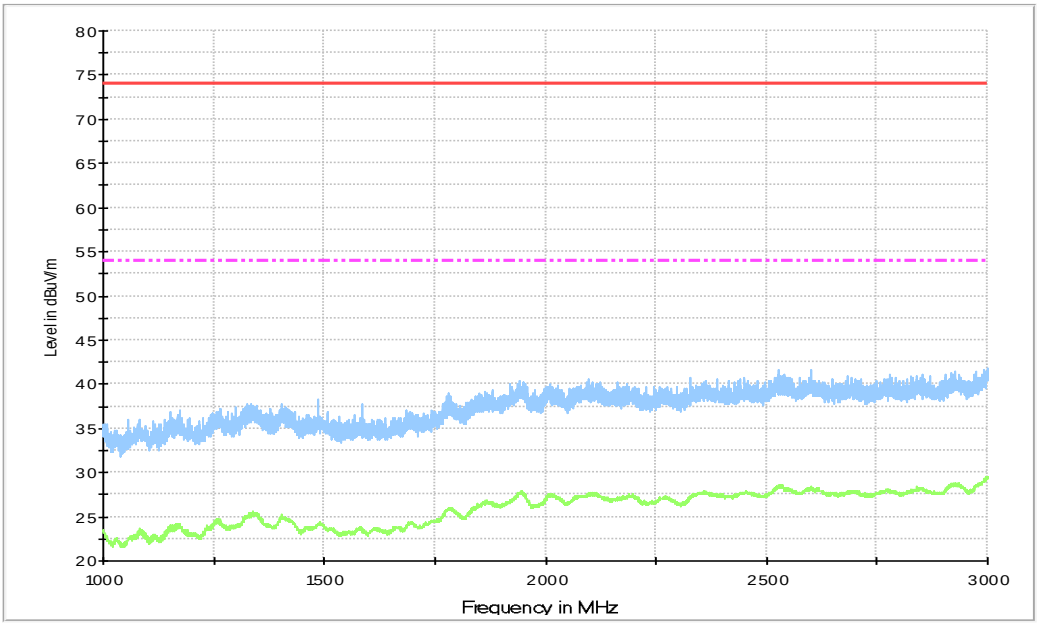

Figure A.11 Radiated Emission from 1GHz to 3GHz

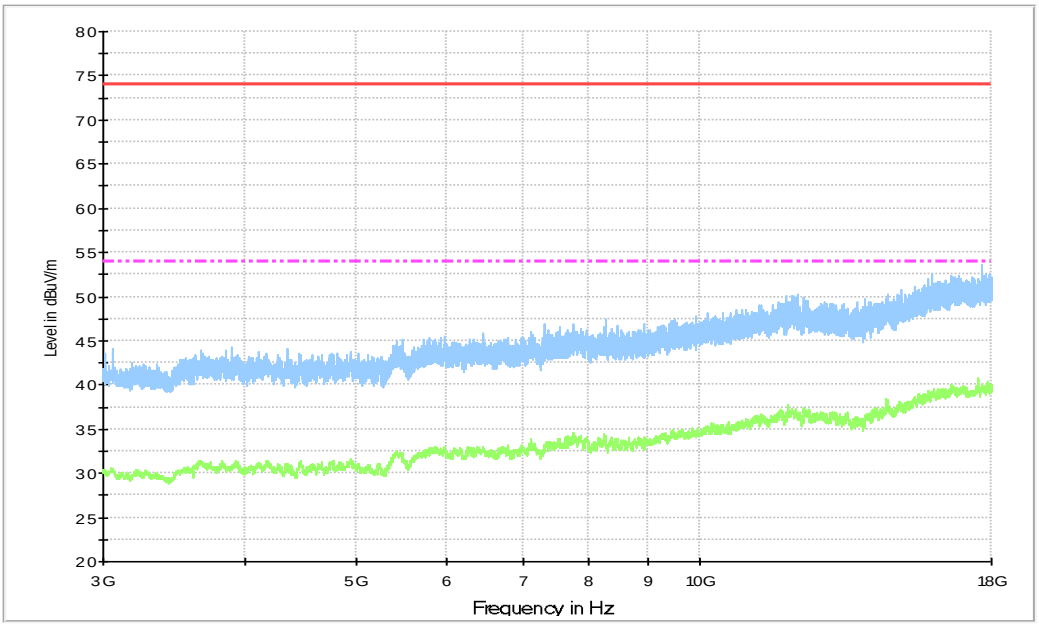

Figure A.12 Radiated Emission from 3GHz to 18GHz

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Average detector result

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)
17540.00	40.00	-20.63	40.76	19.87	54.00	14.00	V
17541.00	39.96	-20.71	40.76	19.91	54.00	14.04	V
17539.50	39.93	-20.67	40.76	19.85	54.00	14.07	V
17541.50	39.90	-20.75	40.76	19.89	54.00	14.10	V
17538.50	39.90	-20.77	40.76	19.91	54.00	14.10	H
17537.50	39.84	-20.87	40.76	19.95	54.00	14.16	V

Peak detector result

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)
16927.50	52.00	-22.50	41.32	33.18	74.00	22.00	H
16946.50	51.94	-22.27	41.26	32.95	74.00	22.06	H
16921.50	51.81	-22.45	41.34	32.92	74.00	22.19	H
17885.00	51.66	-20.97	40.51	32.11	74.00	22.34	H
16993.50	51.64	-22.19	41.12	32.72	74.00	22.36	V
17017.50	51.63	-22.08	41.08	32.63	74.00	22.37	H

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Set.6+Mode6, USB DATA (PC TO SD)

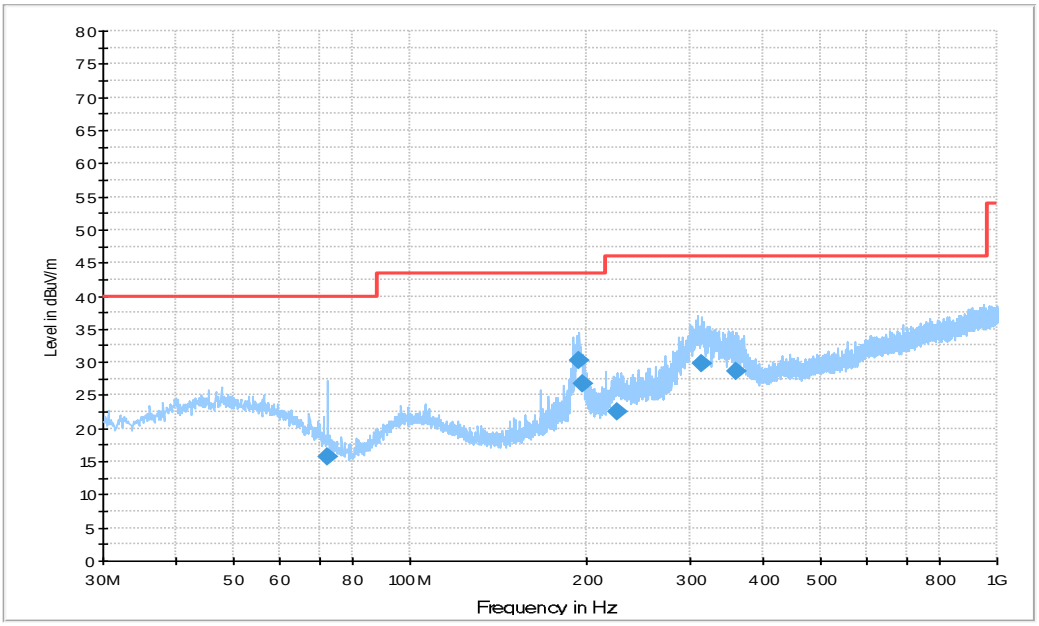

Figure A.13 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
72.392000	15.8	100.0	H	279.0	-4.9	24.2	40.0
193.42800	30.3	100.0	H	270.0	-0.8	13.2	43.5
197.28500	26.8	125.0	H	292.0	-0.5	16.7	43.5
224.68200	22.6	125.0	H	90.0	-0.2	23.4	46.0
312.75200	29.8	100.0	H	267.0	1.9	16.2	46.0
359.72300	28.6	100.0	H	248.0	3.7	17.4	46.0

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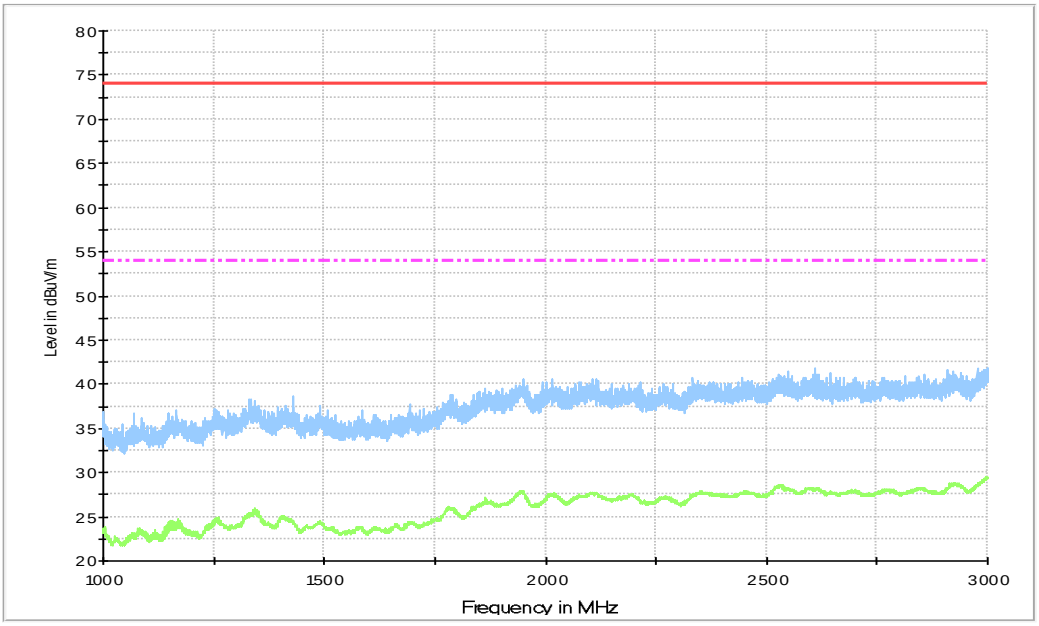

Figure A.14 Radiated Emission from 1GHz to 3GHz

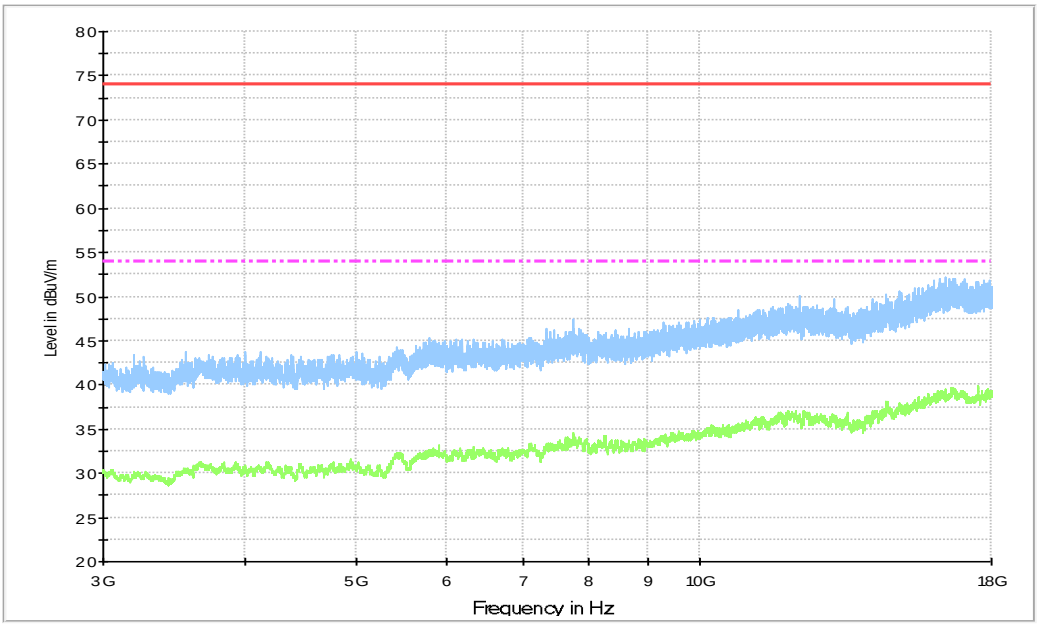

Figure A.15 Radiated Emission from 3GHz to 18GHz

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Average detector result

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)
17540.00	40.19	-20.63	40.76	20.06	54.00	13.81	V
17538.50	40.03	-20.77	40.76	20.05	54.00	13.97	V
17541.00	39.88	-20.71	40.76	19.83	54.00	14.12	V
17536.00	39.84	-21.02	40.76	20.10	54.00	14.16	V
17536.50	39.83	-20.97	40.76	20.04	54.00	14.17	V
17542.00	39.82	-20.79	40.76	19.85	54.00	14.18	V

Peak detector result

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)
17492.00	52.13	-22.16	40.79	33.50	74.00	21.87	V
17680.50	52.12	-21.24	40.54	32.82	74.00	21.88	H
17023.00	52.00	-22.17	41.08	33.10	74.00	22.00	V
17058.50	52.00	-22.42	41.04	33.38	74.00	22.00	V
17872.50	51.93	-21.23	40.53	32.64	74.00	22.07	H
17797.00	51.92	-21.37	40.60	32.69	74.00	22.08	V

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Set.7+Mode7, USB (SD TO PC)

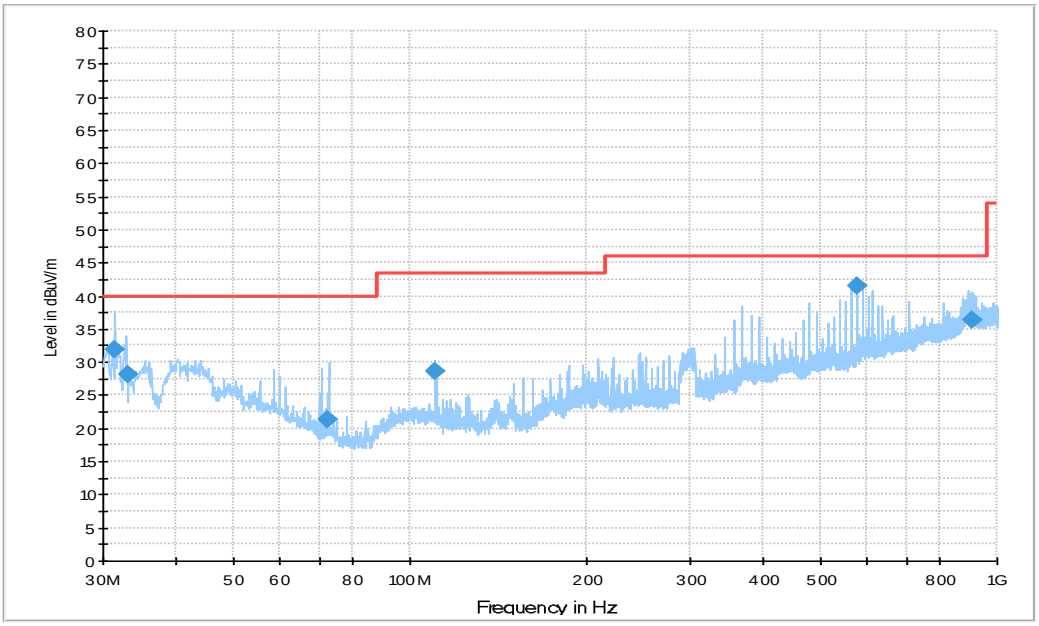

Figure A.16 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
31.475000	31.9	100.0	V	248.0	-3.6	8.1	40.0
32.990000	28.2	100.0	V	202.0	-3.3	11.8	40.0
72.580000	21.4	125.0	H	273.0	-5.0	18.6	40.0
110.43300	28.5	125.0	H	273.0	-1.7	15.0	43.5
577.54800	41.6	100.0	H	279.0	8.3	4.4	46.0
903.46800	36.3	100.0	V	3.0	13.3	9.7	46.0

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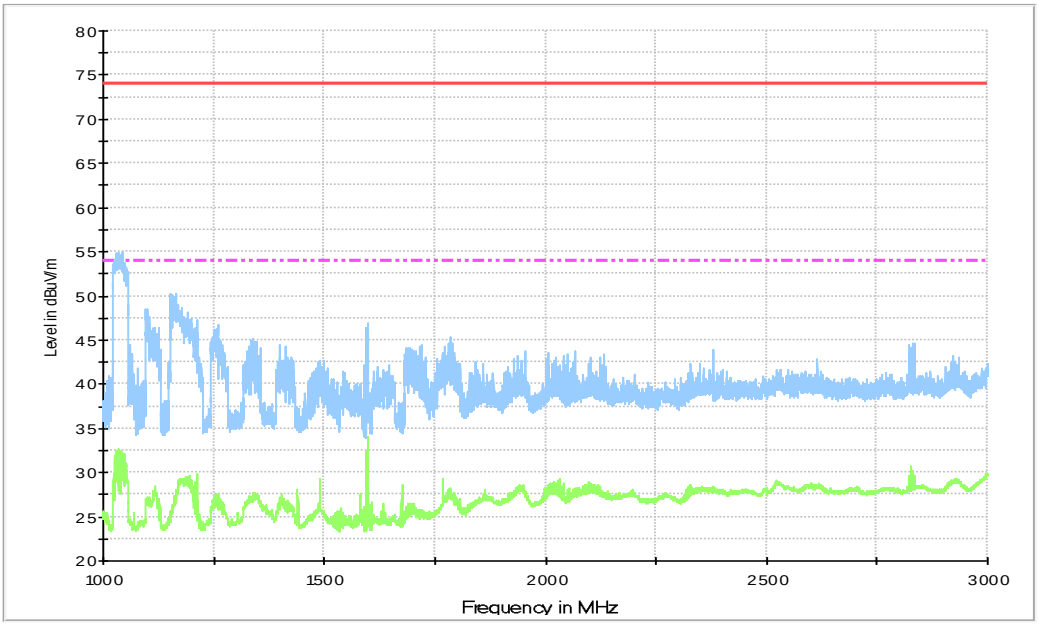

Figure A.17 Radiated Emission from 1GHz to 3GHz

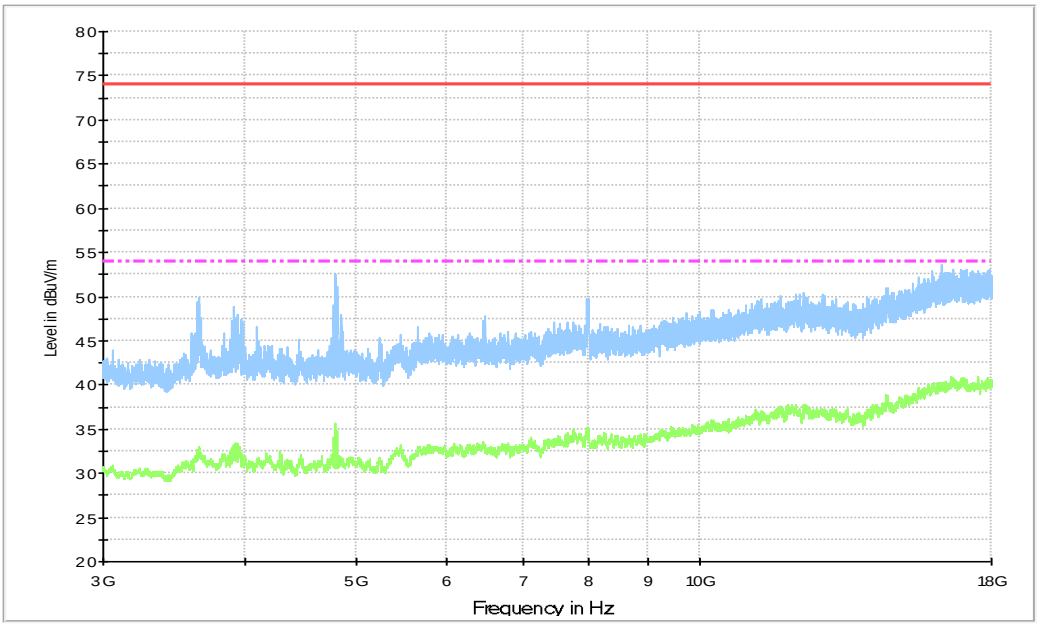

Figure A.18 Radiated Emission from 3GHz to 18GHz

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Average detector result

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)
1031.80	33.24	-37.75	26.88	44.11	54.00	20.76	V
1189.40	29.71	-37.92	27.92	39.71	54.00	24.29	H
1595.80	34.69	-37.81	27.91	44.59	54.00	19.31	H
3643.00	32.41	-33.81	33.24	32.97	54.00	21.59	V
3934.00	33.28	-33.69	33.43	33.54	54.00	20.72	H
4786.50	34.40	-33.34	33.95	33.79	54.00	19.60	H

Peak detector result

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)
1032.20	55.88	-37.77	26.88	66.77	74.00	18.13	V
1154.40	50.12	-37.92	27.64	60.40	74.00	23.88	V
1595.00	47.86	-37.78	27.91	57.73	74.00	26.14	H
3632.00	49.32	-34.00	33.16	50.17	74.00	24.68	V
3905.00	50.12	-33.94	33.49	50.56	74.00	23.88	H
4786.00	51.18	-33.34	33.96	50.56	74.00	22.82	H

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B.2 Conducted Emission

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

For the test setup photographs please see the test setup photos document.

B.2.2 EUT Operating Mode

The EUT is operating in the USB mode, charging mode, MP3, MP4, 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.

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 Condition in charging mode

Voltage（V）	Frequency（Hz）
120	60

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

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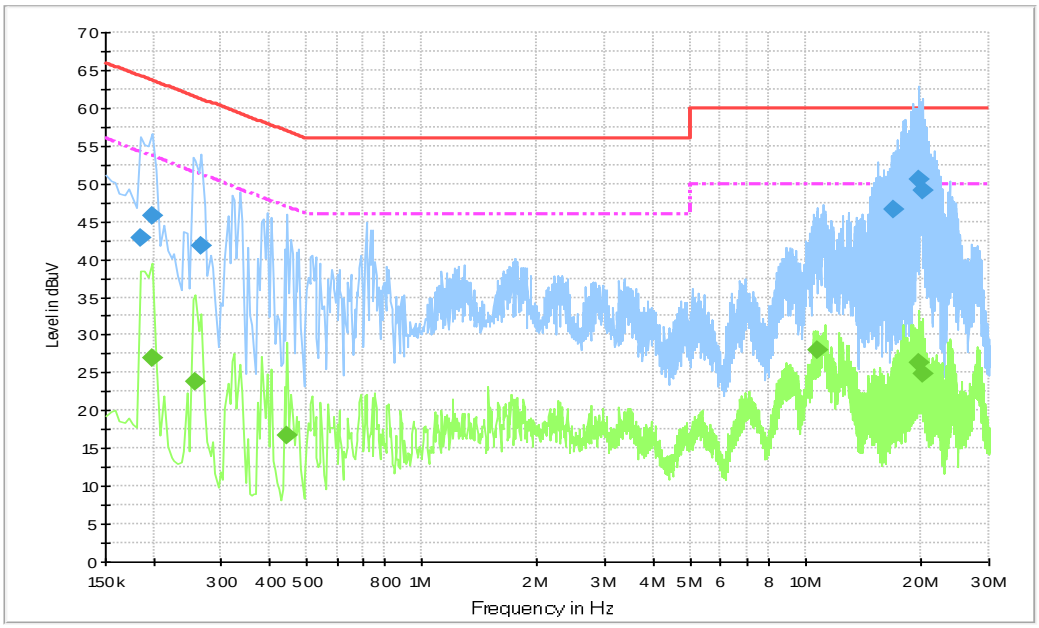
B.2.5 Measurement Results

Note: all the set-up and operating mode list in section 3.4 were tested, only the worst test data are showed in this section.

Set.1+Mode3



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

Figure A.19 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.186000	42.8	2000.0	9.000	L1	20.1	21.5	64.2
0.199500	45.7	2000.0	9.000	L1	20.1	18.0	63.6
0.267000	41.8	2000.0	9.000	L1	20.1	19.4	61.2
16.939500	46.6	2000.0	9.000	L1	20.4	13.4	60.0
19.792500	50.6	2000.0	9.000	L1	20.4	9.4	60.0
20.197500	49.1	2000.0	9.000	L1	20.5	10.9	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.199500	27.0	2000.0	9.000	L1	20.1	26.7	53.6
0.258000	23.8	2000.0	9.000	L1	20.1	27.7	51.5
0.447000	16.7	2000.0	9.000	L1	20.2	30.2	46.9
10.689000	28.0	2000.0	9.000	L1	20.3	22.0	50.0
19.792500	26.3	2000.0	9.000	L1	20.4	23.7	50.0
20.080500	24.9	2000.0	9.000	L1	20.5	25.1	50.0

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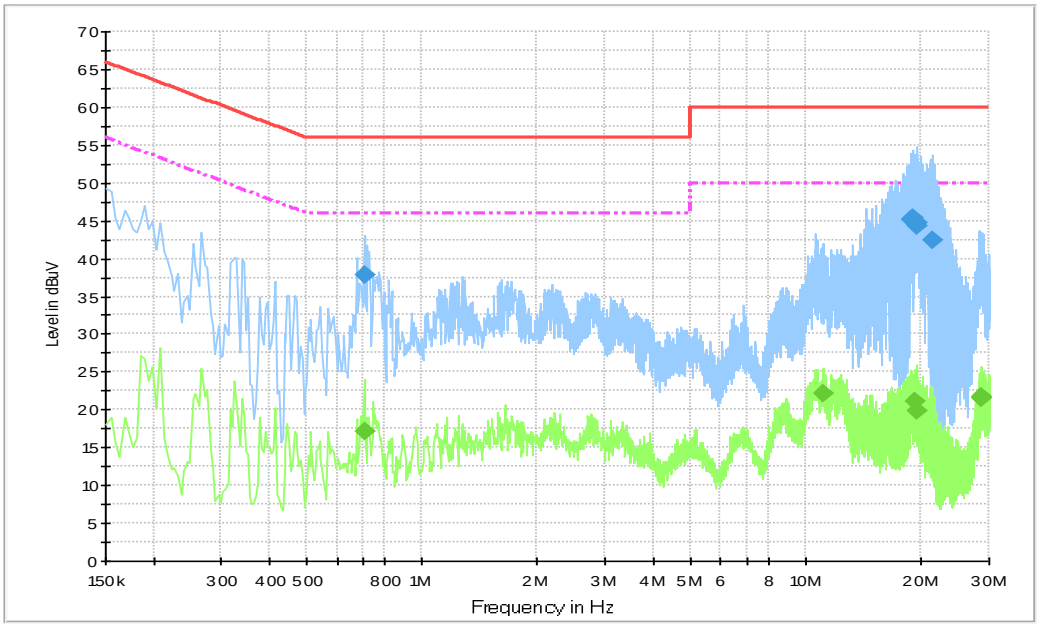
Set.3+Mode2



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

Figure A.20 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.708000	37.8	2000.0	9.000	L1	20.2	18.2	56.0
18.838500	45.1	2000.0	9.000	L1	20.4	14.9	60.0
18.987000	45.4	2000.0	9.000	L1	20.4	14.6	60.0
19.410000	44.7	2000.0	9.000	L1	20.4	15.3	60.0
19.495500	44.3	2000.0	9.000	L1	20.4	15.7	60.0
21.246000	42.5	2000.0	9.000	L1	21.0	17.5	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.708000	17.2	2000.0	9.000	L1	20.2	28.8	46.0
11.116500	22.1	2000.0	9.000	L1	20.3	27.9	50.0
19.140000	21.1	2000.0	9.000	L1	20.4	28.9	50.0
19.495500	19.9	2000.0	9.000	L1	20.4	30.1	50.0
28.513500	21.5	2000.0	9.000	N	20.5	28.5	50.0
28.711500	21.6	2000.0	9.000	N	20.5	28.4	50.0

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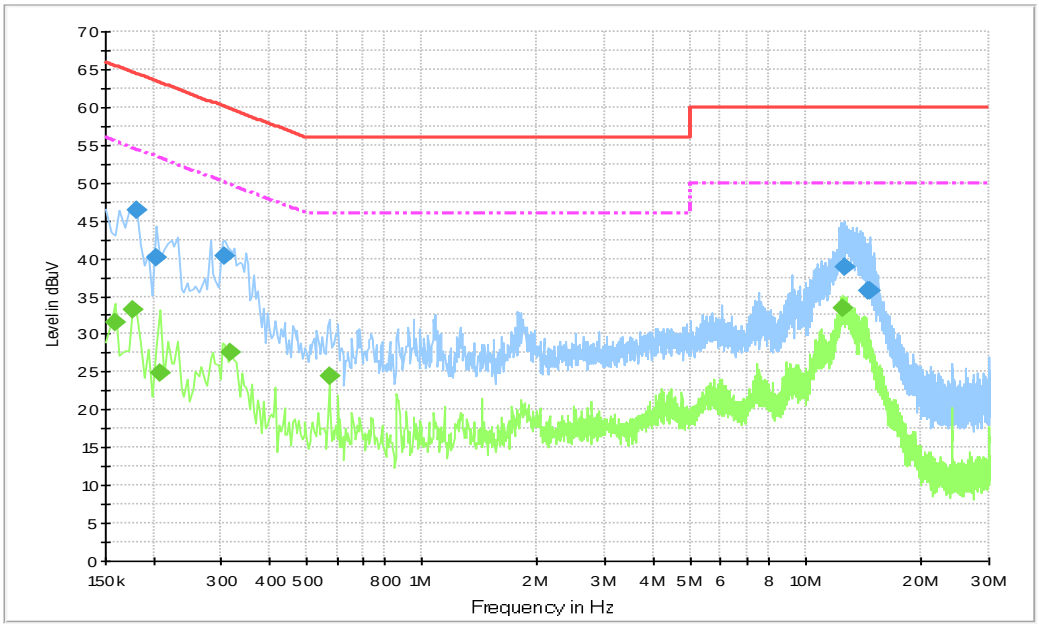
Set.7+Mode7



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

Figure A.21 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.181500	46.4	1000.0	9.000	L1	20.0	18.0	64.4
0.204000	40.0	1000.0	9.000	L1	20.0	23.4	63.4
0.307500	40.3	1000.0	9.000	L1	20.0	19.7	60.0
12.678000	38.9	1000.0	9.000	N	20.2	21.1	60.0
14.478000	35.8	1000.0	9.000	L1	20.0	24.2	60.0
14.640000	35.6	1000.0	9.000	N	20.2	24.4	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.159000	31.5	1000.0	9.000	N	20.1	24.0	55.5
0.177000	33.1	1000.0	9.000	N	20.0	21.5	54.6
0.208500	24.8	1000.0	9.000	L1	20.0	28.4	53.3
0.316500	27.6	1000.0	9.000	N	20.1	22.2	49.8
0.573000	24.5	1000.0	9.000	L1	20.0	21.5	46.0
12.439500	33.4	1000.0	9.000	L1	20.0	16.6	50.0

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ANNEX C: Persons involved in this testing

Test Item	Tester
Radiated Emission	Sun Tianyuan
Conducted Emission	Guo Qian

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

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