



FCC 15B TEST REPORT

No. I21Z60790-EMC01

for

Honor Device Co., Ltd.

Smart Phone

Model Name: NTH-NX9

FCC ID: 2AYGCNTH-NX9

with

Hardware Version: HN2NTHM

Software Version: 4.2.0.107 (C900E107R1P2)

Issued Date: 2021-08-19

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.

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

Report Number	Revision	Description	Issue Date
I21Z60790-EMC01	Rev.0	1 st edition	2021-08-19

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1. Test Laboratory

1.1. Testing Location

Location 1: CTTL(BDA)

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

1.2. Testing Environment

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

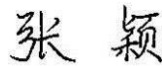
1.3. Project data

Testing Start Date: 2021-07-10
Testing End Date: 2021-08-06

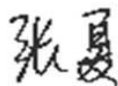
1.4. Signature



An Hui
(Prepared this test report)



Zhang Ying
(Reviewed this test report)



Zhang Xia
Deputy Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: Honor Device Co., Ltd.
Address /Post: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen,
Guangdong, China
Contact: Li Ming
Email: liming136@hihonor.com
Telephone: 0755-61886688

2.2. Manufacturer Information

Company Name: Honor Device Co., Ltd.
Address /Post: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen,
Guangdong, China
Contact: Li Ming
Email: liming136@hihonor.com
Telephone: 0755-61886688
Company Name: Honor Device Co., Ltd.

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

3.1. About EUT

Description	Smart Phone
Model Name	NTH-NX9
FCC ID	2AYGCNTH-NX9

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	861997050027254/	HN2NTHM	4.2.0.107 (C900E107R1P2)
	861997050030357		
EUT2	861997050026090/	HN2NTHM	4.2.0.107 (C900E107R1P2)
	861997050029193		

*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	Note
AE1	Battery	/	EUT1
AE9	Battery	/	EUT2
AE2	Charger	/	NEW
AE3	Charger	/	OLD
AE4	USB Cable	/	LUXSHARE
AE5	USB Cable	/	Mingji
AE6	Headset	/	Foster
AE7	Headset	/	Lianchuang
AE8	Headset	/	Quancheng

AE1

Model	HB476489EFW
Manufacturer	Sunwoda
Capacitance	4200mAh
Nominal voltage	3.87V

AE9

Model	HB476489EFW
Manufacturer	SCUD
Capacitance	4200mAh
Nominal voltage	3.87V

AE2

Model	HW-110600X00
Manufacturer	Honor Device Co., Ltd
OUTPUT	5V DC 2A OR 10V DC 4A OR 11V DC 6A MAX
SN	YF91YEM3500036
Note	NEW

AE3

Model	HW-110600X00
Manufacturer	Honor Device Co., Ltd
OUTPUT	5V DC 2A OR 10V DC 4A OR 11V DC 6A MAX
SN	YF91LBLBL00158
Note	OLD

AE4

Model	L99UC139-CS-H
Manufacturer	LUXSHARE
Length	/

AE5

Model	213-01011-0
Manufacturer	Mingji
Length	/

AE6

Model	640958
Manufacturer	Foster
Length	/

AE7

Model	MEND1632B729012
Manufacturer	Lianchuang
Length	/

AE8

Model	1331-3301-6001-TC-347
Manufacturer	Quancheng
Length	/

*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+AE2+AE4	Charger1+Real Camera+ RX mode
Set.2	EUT2+AE9+AE2+AE5	Charger1+Real Camera+ RX mode
Set.3	EUT1/EUT2+AE1/AE9+AE3+AE4/AE5	Charger2+mp4+ RX mode
Set.4	EUT1/EUT2+AE1/AE9+AE4/AE5	USB TO PC + Front Camera
Set.5	EUT1/EUT2+AE1/AE9+AE4/AE5	PC TO USB + Front Camera
Set.6	EUT1+AE1/AE9+AE6	Headset1+mp4
Set.7	EUT2+AE1/AE9+AE6	Headset1+mp4
Set.8	EUT1/EUT2+AE1/AE9+AE7	Headset2+mp4
Set.9	EUT1/EUT2+AE1/AE9+AE8	Headset3+mp4
Set.10	EUT1/EUT2+AE1/AE9+AE2+AE4/AE5	Black screen, turn off all functions, and turn off all communication
Set.11	EUT1/EUT2+AE1/AE9+AE3+AE4/AE5	Black screen, turn off all functions, and turn off all communication

Note1:

All combinations were tested, and only the worst results are shown in this report.

Note2:

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM 850MHz,WCDMA Band5, LTE Bands 12/26. The measurement results showed here are worst cases of different bands.

3.5. General Description

Equipment Under Test (EUT) is a model of Smart Phone with integrated antenna.

It supports

GSM Frequency Bands	GSM 850/GSM 1900
UMTS Frequency Bands	FDD Bands 2/4/5
LTE Frequency Bands	FDD Bands 2/4/5/7/12/17/28/66 and TDD Bands 38/41(2496~2690MHz)
5G NR	NR: n7/38/41(2496M-2690M)/77/78

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

Samples undergoing test were selected by the client.

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

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	2019
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-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
	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	MANUFACTU RE	CAL DUE DATE	CALIBRATION INTERVAL
1	LISN	ENV216	101459	R & S	2022-03-22	1 year
2	Test Receiver	ESCI	100766	R & S	2022-03-09	1 year
3	Universal Radio Communication Tester	CMW500	159408	R&S	2021-12-07	1 Year
4	Test Receiver	ESU26	100376	R & S	2022-03-08	1 year
5	BiLog Antenna	VULB9163	482	Schwarzbeck	2021-11-04	1 year
6	Dual-Ridge Waveguide Horn Antenna	3117	00139065	ETS-Lindgren	2021-10-11	1 year
7	Universal Radio Communication Tester	MT8821C	6262257899	Anritsu	2022-05-06	1 year
8	Universal Radio Communication Tester	MT8000A	6262261933	Anritsu	2022-05-06	1 year
9	FM Signal Source	SMF100A	104940	R & S	2022-01-09	1 year

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 (charging mode) at distances of 3 meters (for 30MHz-1GHz) and 3 meters (for above 1GHz) is tested. Tested in accordance with the procedures of ANSI C63.4 – 2014, section 8.3.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3/10 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

A.1.2 EUT Operating Mode:

The MS is operating in the charging mode. During the test MS is connected to a charger in the case of charging mode.

The EUT was tested while operating in licensed band Rx mode. All licensed band receivers that tune in the range of 30MHz-960MHz, as listed in Section 3.4, are investigated. Only the worst case emissions are reported.

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.

A.1.3 Measurement Limit

Frequency range (MHz)	Field strength limit ($\mu\text{V/m}$)		
	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.

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:

Measurement Result = Receiver Reading + Antenna Factor + Cable loss

Measurement uncertainty (worst case): 30MHz-1GHz: 5.84dB, 1GHz-18GHz: 5.82dB, $k=2$.

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT1+AE1+AE2+AE4	Charger1+Real Camera+ RX mode
Set.2	EUT2+AE9+AE2+AE4	Charger1+Real Camera+ RX mode
Set.3	EUT1/EUT2+AE1/AE9+AE3+AE5	Charger2+mp4+ RX mode
Set.4	EUT1/EUT2+AE1/AE9+AE4/AE5	USB TO PC + Front Camera
Set.5	EUT1/EUT2+AE1/AE9+AE4/AE5	PC TO USB + Front Camera
Set.6	EUT1+AE1/AE9+AE6	Headset1+mp4
Set.7	EUT2+AE1/AE9+AE6	Headset1+mp4
Set.8	EUT1/EUT2+AE1/AE9+AE7	Headset2+mp4
Set.9	EUT1/EUT2+AE1/AE9+AE8	Headset3+mp4
Set.10	EUT1/EUT2+AE1/AE9+AE2+AE4/AE5	Black screen, turn off all functions, and turn off all communication
Set.11	EUT1/EUT2+AE1/AE9+AE3+AE4/AE5	Black screen, turn off all functions, and turn off all communication

Note:

All combinations were tested, and only the worst results are shown in this report.

Measurement results for Set.3(EUT1, AE1, AE3, AE4):
EUT1 Charger2+MP4+GSM 850 RX Mode/QP detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
33.492	25.17	-14.38	12.48	27.06	40.00	14.83	V
34.850	25.25	-14.36	12.80	26.81	40.00	14.75	V
45.132	28.81	-14.23	13.95	29.09	40.00	11.19	V
79.373	15.04	-13.82	7.15	21.71	40.00	24.97	V
97.900	17.55	-13.70	11.68	19.57	43.50	25.95	V
913.864	31.28	-9.61	21.80	19.09	46.00	14.72	H

EUT1 Charger2+MP4+GSM 850 RX Mode/Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17289.500	41.11	-22.78	41.41	22.47	54.00	12.89	V
17288.500	41.01	-22.78	41.41	22.38	54.00	12.99	V
17450.500	41.00	-23.16	41.25	22.91	54.00	13.00	V
17425.500	40.96	-23.10	41.27	22.78	54.00	13.04	V
17170.000	40.95	-22.95	41.53	22.37	54.00	13.05	H
17276.500	40.94	-22.78	41.42	22.30	54.00	13.06	V

EUT1 Charger2+MP4+GSM 850 RX Mode/Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
16962.500	54.02	-23.01	41.68	35.36	74.00	19.98	H
17847.000	53.93	-22.51	41.27	35.17	74.00	20.07	V
17199.000	53.80	-22.91	41.50	35.21	74.00	20.20	V
16702.000	53.43	-23.15	41.52	35.06	74.00	20.57	H
16804.500	53.42	-23.00	41.58	34.84	74.00	20.58	H
17902.000	53.39	-22.62	41.28	34.73	74.00	20.61	H

Measurement results for Set.5(EUT1, AE1, AE4):
EUT1 PC TO USB +Front Camera Mode/QP detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
34.559	33.73	-14.37	12.73	35.36	40.00	6.27	V
72.001	32.70	-13.96	8.97	37.68	40.00	7.30	V
101.586	26.04	-13.66	11.97	27.73	43.50	17.46	V
124.672	24.85	-13.44	8.87	29.41	43.50	18.65	H
266.486	30.20	-12.46	12.45	30.20	46.00	15.80	H
515.582	35.68	-10.56	17.16	29.08	46.00	10.32	V

EUT1 PC TO USB +Front Camera Mode/Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17167.500	40.94	-22.96	41.53	22.37	54.00	13.06	V
17074.000	40.93	-23.03	41.63	22.34	54.00	13.07	V
17173.000	40.93	-22.95	41.53	22.35	54.00	13.07	V
17096.500	40.92	-23.04	41.60	22.36	54.00	13.08	V
17169.500	40.90	-22.95	41.53	22.33	54.00	13.10	H
17163.000	40.90	-22.96	41.54	22.33	54.00	13.10	V

EUT1 PC TO USB +Front Camera Mode/Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17086.500	54.00	-23.04	41.61	35.42	74.00	20.00	V
17932.000	53.69	-22.68	41.29	35.09	74.00	20.31	H
17318.000	53.41	-22.85	41.38	34.88	74.00	20.59	V
17261.000	53.39	-22.81	41.44	34.76	74.00	20.61	V
17246.000	53.34	-22.83	41.45	34.72	74.00	20.66	V
17067.000	53.32	-23.03	41.63	34.72	74.00	20.68	V

Measurement results for Set.7(EUT2, AE9, AE6):
EUT2 Headset1 +MP4 Mode/QP detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
38.827	19.29	-14.33	13.66	19.95	40.00	20.71	H
52.213	19.44	-14.15	13.86	19.73	40.00	20.56	H
62.786	17.29	-14.08	12.25	19.13	40.00	22.71	H
99.355	17.48	-13.68	11.97	19.19	43.50	26.02	H
693.771	27.32	-10.27	19.18	18.41	46.00	18.68	V
949.754	31.40	-9.29	21.80	18.89	46.00	14.60	H

EUT1 Charger2+MP4 Mode/Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17423.000	41.07	-23.10	41.28	22.89	54.00	12.93	H
17286.000	41.01	-22.77	41.41	22.36	54.00	12.99	V
17168.000	41.00	-22.96	41.53	22.43	54.00	13.00	V
17137.000	40.99	-23.01	41.56	22.44	54.00	13.01	H
17268.000	40.98	-22.80	41.43	22.35	54.00	13.02	H
17426.000	40.95	-23.10	41.27	22.78	54.00	13.05	H

EUT1 Charger2+MP4 Mode/Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
16668.500	53.75	-23.22	41.50	35.47	74.00	20.25	V
17856.000	53.61	-22.53	41.27	34.86	74.00	20.39	H
17162.000	53.06	-22.97	41.54	34.49	74.00	20.94	H
17777.500	53.05	-22.36	41.26	34.15	74.00	20.95	H
17216.000	52.93	-22.88	41.48	34.33	74.00	21.07	H
16833.000	52.90	-23.00	41.60	34.30	74.00	21.10	V

Measurement results for Set.11(EUTQ, AE1, AE2, AE4):
EUT1 Charger1+Black screen+Turn off all functions+Turn off all communicationMode/QP detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
33.492	25.26	-14.38	12.48	27.15	40.00	14.74	V
34.462	25.43	-14.37	12.71	27.09	40.00	14.57	V
42.125	22.52	-14.28	13.92	22.87	40.00	17.48	V
45.132	27.91	-14.23	13.95	28.19	40.00	12.09	V
99.840	17.67	-13.67	12.07	19.27	43.50	25.84	V
172.978	22.51	-12.82	8.78	26.55	43.50	21.00	H

EUT1 Charger1+Black screen+Turn off all functions+Turn off all communicationMode/Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17101.500	41.09	-23.04	41.60	22.53	54.00	12.91	H
17162.500	41.08	-22.96	41.54	22.51	54.00	12.92	V
17426.500	41.07	-23.10	41.27	22.90	54.00	12.93	H
17076.500	41.01	-23.03	41.62	22.43	54.00	12.99	H
17041.000	41.01	-23.03	41.66	22.38	54.00	12.99	V
17170.500	41.00	-22.95	41.53	22.42	54.00	13.00	V

EUT1 Charger1+Black screen+Turn off all functions+Turn off all communicationMode/Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
16821.500	53.90	-23.00	41.59	35.30	74.00	20.10	H
17601.500	53.41	-22.23	41.22	34.42	74.00	20.59	H
17283.000	53.37	-22.77	41.42	34.72	74.00	20.63	H
17909.500	53.25	-22.64	41.28	34.61	74.00	20.75	H
17023.000	53.18	-23.03	41.68	34.53	74.00	20.82	V
16695.000	53.16	-23.17	41.52	34.81	74.00	20.84	H

EUT1 Charger2+MP4+GSM 850 RX Mode, Set.3(EUT1, AE1, AE3, AE5)

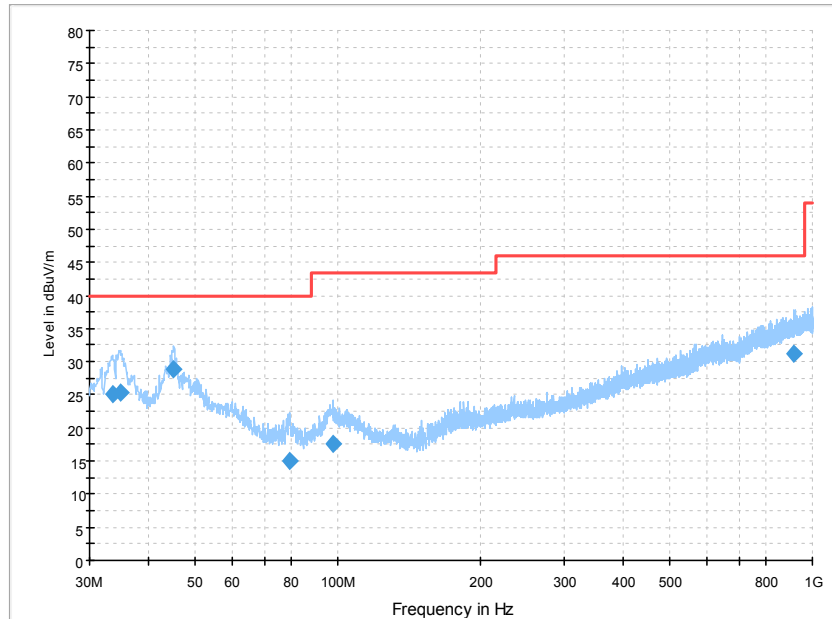


Figure A.1 Radiated Emission from 30MHz to 1GHz

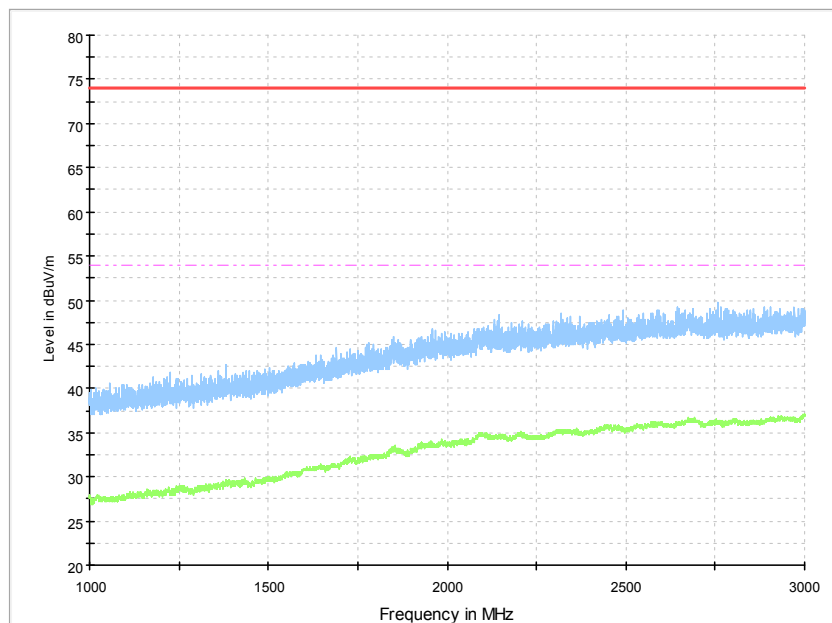


Figure A.2 Radiated Emission from 1GHz to 3GHz

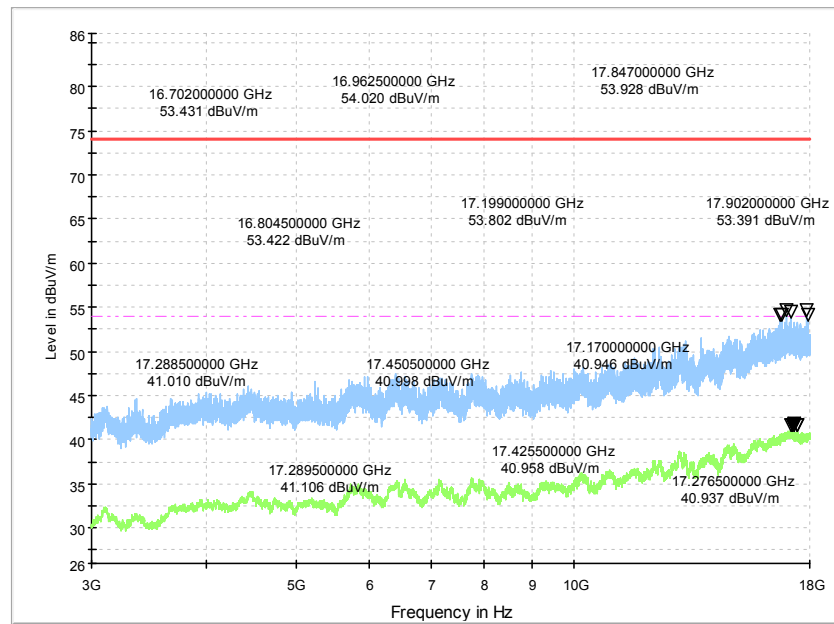


Figure A.3 Radiated Emission from 3GHz to 18GHz

EUT1 PC TO USB +Front Camera Mode, Set.5(EUT2, AE9, AE6)

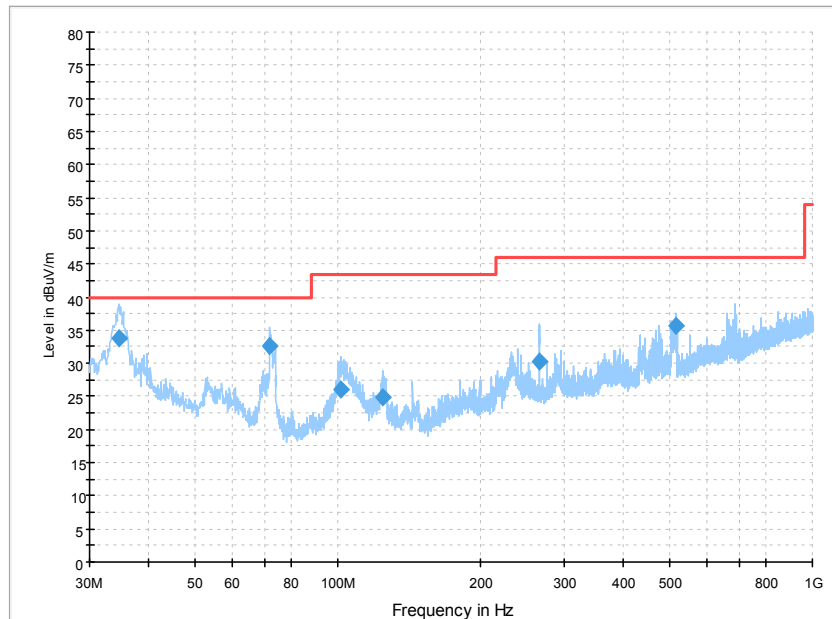


Figure A.4 Radiated Emission from 30MHz to 1GHz

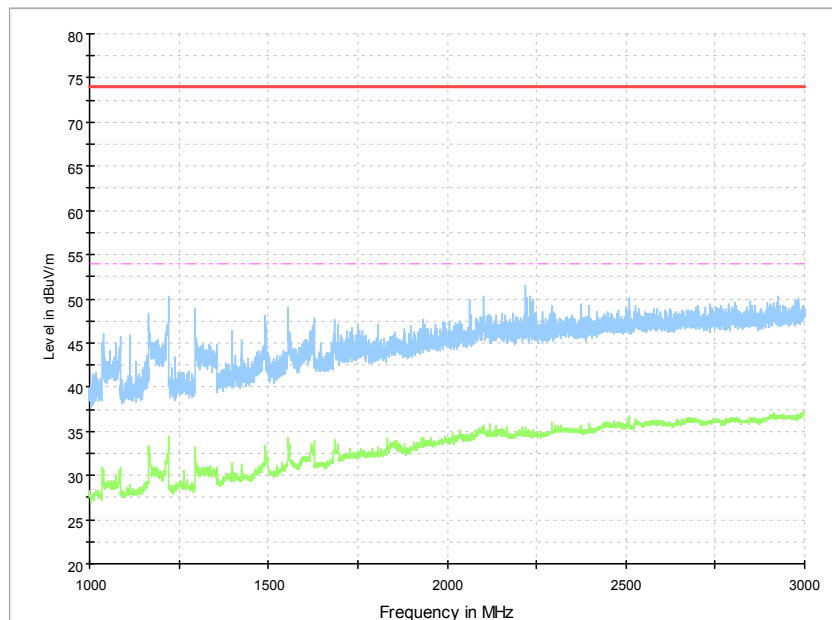


Figure A.5 Radiated Emission from 1GHz to 3GHz

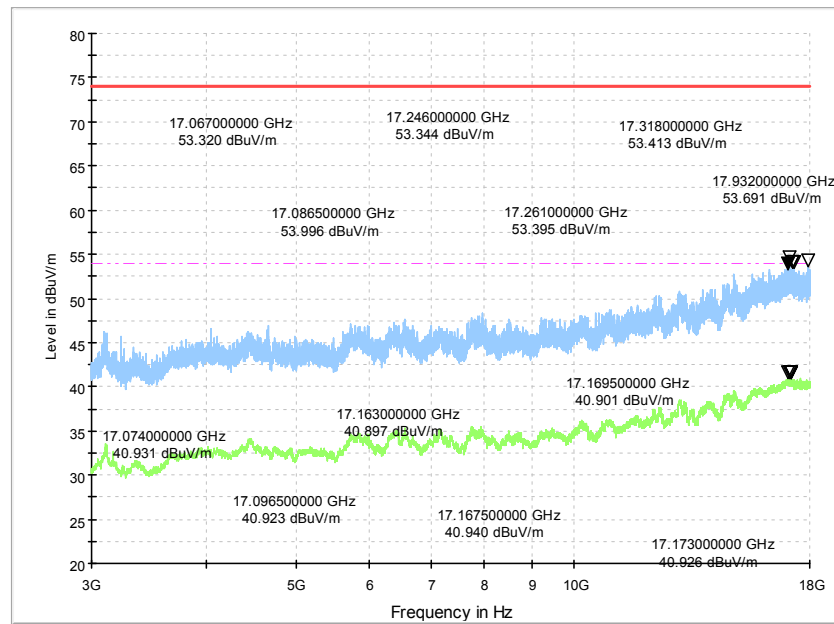


Figure A.6 Radiated Emission from 3GHz to 18GHz

EUT2 Headset1 +MP4 Mode, Set.7(EUT2, AE9, AE6)

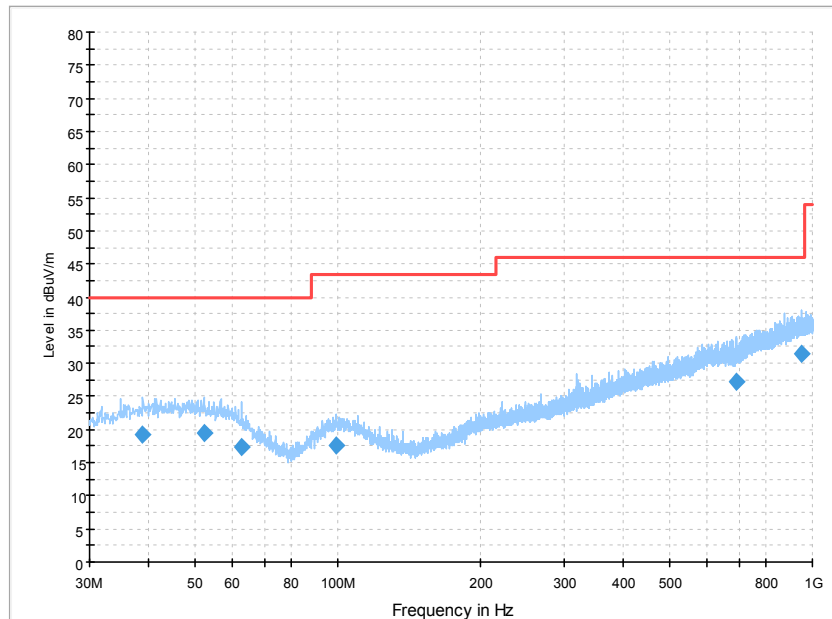


Figure A.7 Radiated Emission from 30MHz to 1GHz

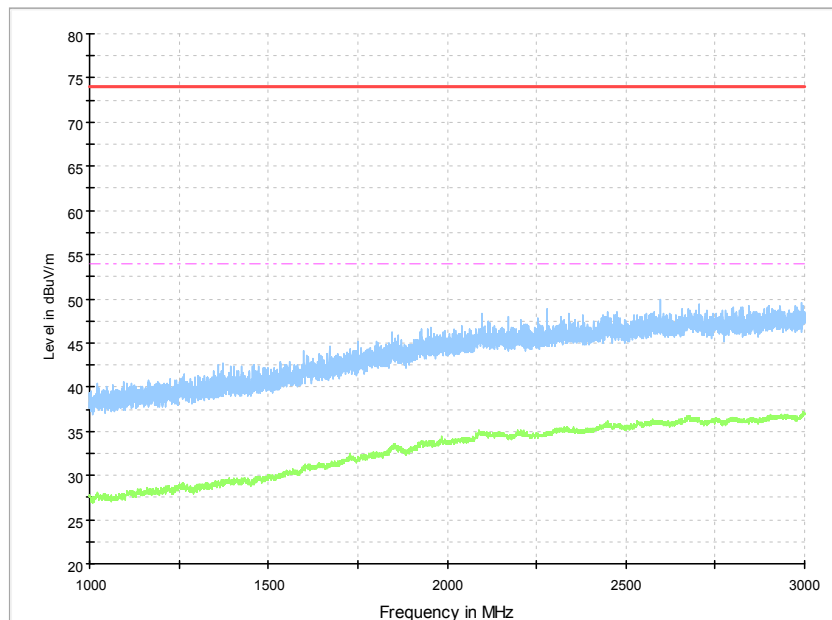


Figure A.8 Radiated Emission from 1GHz to 3GHz

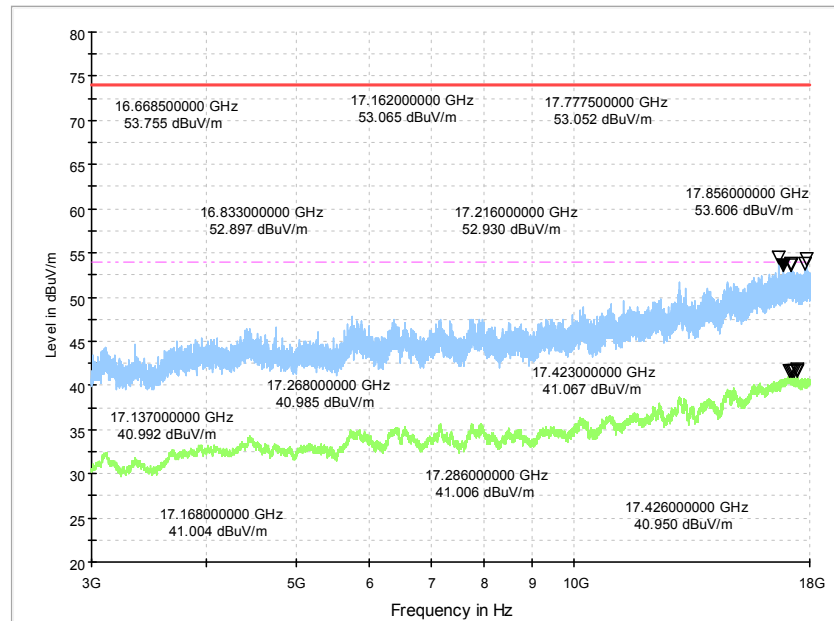


Figure A.9 Radiated Emission from 3GHz to 18GHz

**EUT1 Charger1+Black screen+Turn off all functions+Turn off all communicationMode,
Set.11(EUT1, AE1, AE2, AE4)**

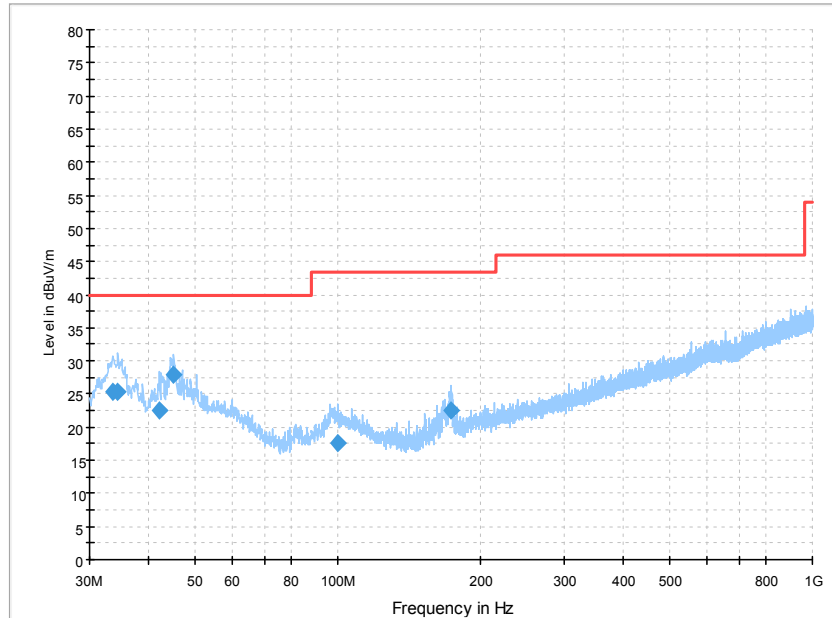


Figure A.10 Radiated Emission from 30MHz to 1GHz

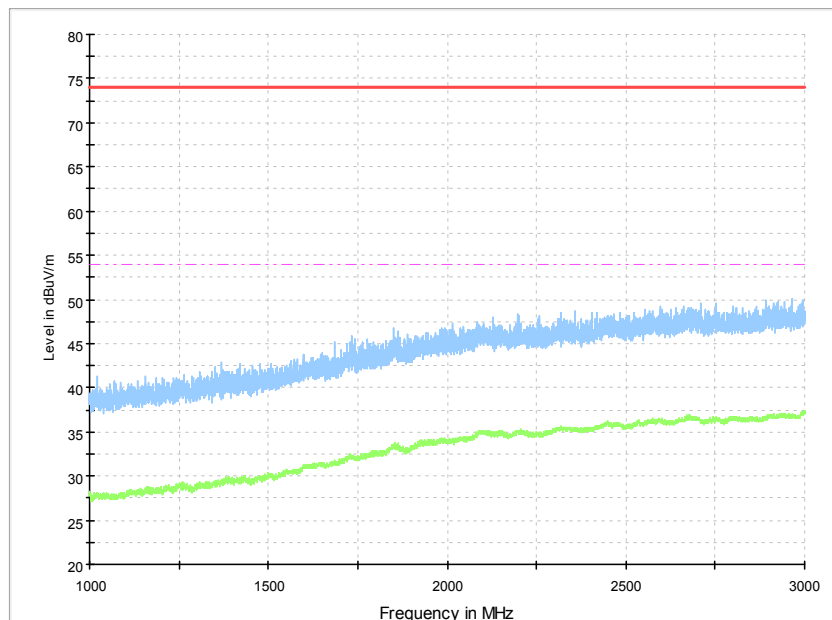


Figure A.11 Radiated Emission from 1GHz to 3GHz

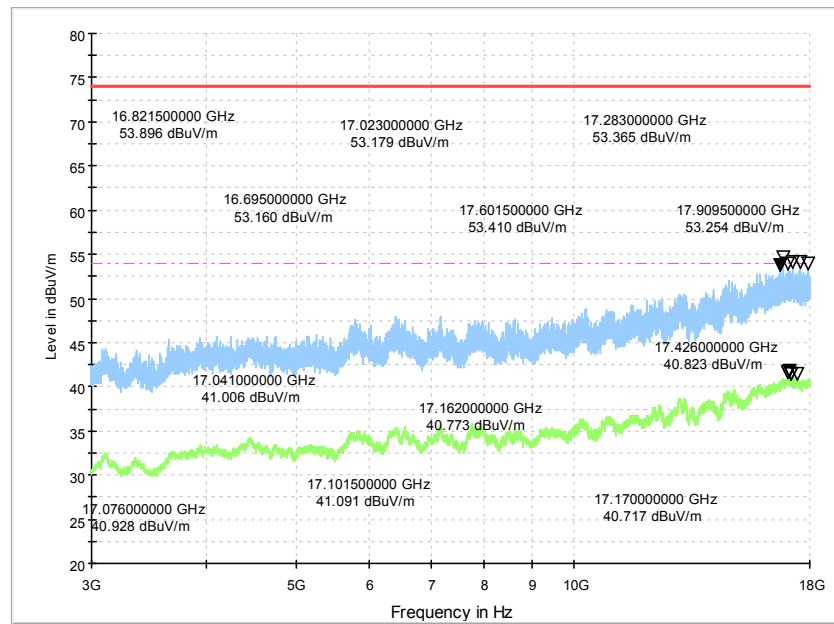


Figure A.12 Radiated Emission from 3GHz to 18GHz

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 charging mode. During the test MS is connected to a charger in the case of charging mode.

A.2.3 Measurement Limit

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency		

A.2.4 Test Condition in charging mode

Voltage (V)	Frequency (Hz)
120	60

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

A.2.5 Measurement Results

Measurement uncertainty: $U=3.1\text{dB}$, $k=2$.

Measurement Result = Receiver Reading + Voltage division factor + Cable loss

Note: The measurement results showed here are worst cases.

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT1+AE1+AE2+AE4	Charger1+Real Camera+ RX mode
Set.2	EUT2+AE9+AE2+AE5	Charger1+Real Camera+ RX mode
Set.3	EUT1/EUT2+AE1/AE9+AE3+AE4/AE5	Charger2+mp4+ RX mode
Set.4	EUT1/EUT2+AE1/AE9+AE4/AE5	USB TO PC + Front Camera
Set.5	EUT1/EUT2+AE1/AE9+AE4/AE5	PC TO USB + Front Camera
Set.6	EUT1+AE1/AE9+AE6	Headset1+mp4
Set.7	EUT2+AE1/AE9+AE6	Headset1+mp4
Set.8	EUT1/EUT2+AE1/AE9+AE7	Headset2+mp4
Set.9	EUT1/EUT2+AE1/AE9+AE8	Headset3+mp4
Set.10	EUT1/EUT2+AE1/AE9+AE2+AE4/AE5	Black screen, turn off all functions, and turn off all communication
Set.11	EUT1/EUT2+AE1/AE9+AE3+AE4/AE5	Black screen, turn off all functions, and turn off all communication

Note:

All combinations were tested, and only the worst results are shown in this report.

EUT1 Charger1+Real Camera+GSM 850 RX Mode, Set.1 (EUT1, AE1, AE2, AE4)

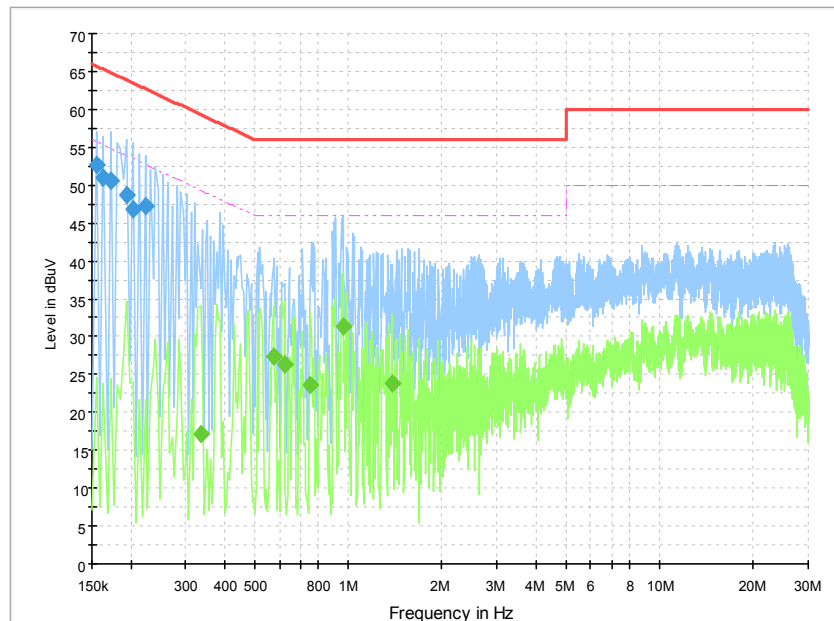


Figure A.13 Conducted Emission

Final Result 1/QP

Frequency (MHz)	Measurement Result (dBμV)	Cable loss (dB)	Voltage diviation factor (dB)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Line (L/N)
0.155	52.60	9.87	9.76	32.96	65.80	13.20	N
0.164	50.94	9.88	9.77	31.29	65.30	14.36	N
0.173	50.52	9.86	9.78	30.88	64.80	14.28	L1
0.195	48.68	9.85	9.79	29.03	63.80	15.12	L1
0.204	46.83	9.88	9.80	27.15	63.40	16.57	N
0.222	47.12	9.88	9.81	27.43	62.70	15.58	L1

Final Result 2/AV

Frequency (MHz)	Measurement Result (dBμV)	Cable loss (dB)	Voltage diviation factor (dB)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Line (L/N)
0.335	17.12	9.87	9.87	-2.61	49.30	32.20	N
0.573	27.44	9.88	9.89	7.68	46.00	18.60	L1
0.623	26.33	9.83	9.87	6.62	46.00	19.70	L1
0.758	23.63	9.89	9.83	3.91	46.00	22.40	L1
0.960	31.29	9.89	9.78	11.62	46.00	14.70	L1
1.379	23.89	9.87	9.75	4.27	46.00	22.10	L1

EUT2 Charger1+Real Camera+GSM 850 RX Mode, Set.2(EUT2, AE9, AE2, AE5)

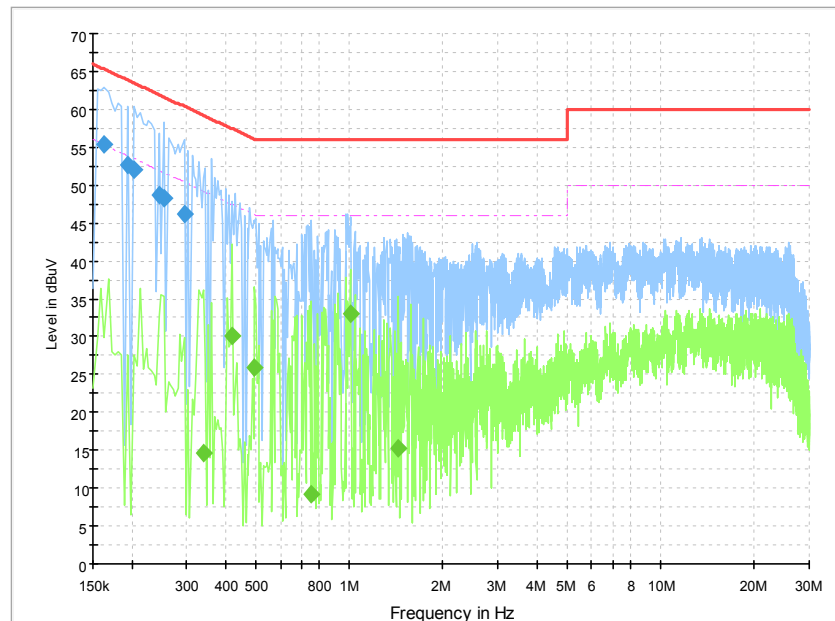


Figure A.14 Conducted Emission

Final Result 1/QP

Frequency (MHz)	Measurement Result (dBμV)	Cable loss (dB)	Voltage diviation factor (dB)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Line (L/N)
0.164	55.42	9.88	9.77	35.76	65.30	9.90	L1
0.195	52.60	9.85	9.79	32.95	63.80	11.20	L1
0.204	51.95	9.88	9.80	32.27	63.40	11.50	L1
0.245	48.70	9.88	9.82	28.99	61.90	13.20	L1
0.254	48.23	9.88	9.83	28.52	61.60	13.40	N
0.164	55.42	9.88	9.77	35.76	65.30	9.90	L1

Final Result 2/AV

Frequency (MHz)	Measurement Result (dBμV)	Cable loss (dB)	Voltage diviation factor (dB)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Line (L/N)
0.339	14.71	9.88	9.87	-5.03	49.20	34.50	L1
0.420	30.04	9.88	9.90	10.27	47.40	17.40	L1
0.497	26.00	9.88	9.92	6.20	46.10	20.10	N
0.758	9.24	9.89	9.83	-10.48	46.00	36.80	N
1.005	33.02	9.89	9.77	13.36	46.00	13.00	L1
1.442	15.31	9.87	9.75	-4.31	46.00	30.70	N

EUT1 EUT TO PC +Front Camera Mode, Set.4(EUT1, AE1, AE4)

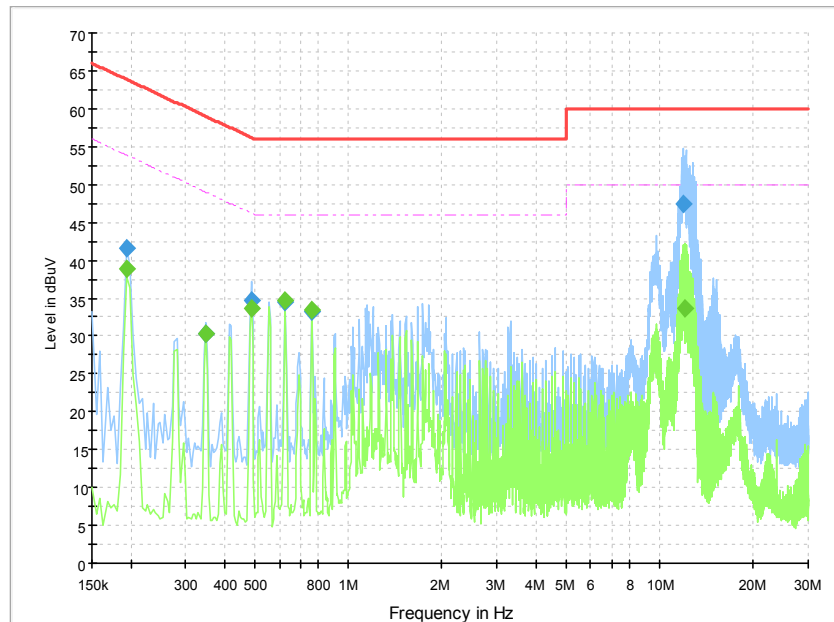


Figure A.15 Conducted Emission

Final Result 1/QP

Frequency (MHz)	Measurement Result (dBμV)	Cable loss (dB)	Voltage diviation factor (dB)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Line (L/N)
0.195	41.54	9.85	9.79	21.89	63.80	22.30	L1
0.348	30.22	9.87	9.87	10.48	59.00	28.80	L1
0.488	34.65	9.88	9.92	14.86	56.20	21.60	L1
0.627	34.57	9.84	9.87	14.86	56.00	21.40	N
0.767	33.30	9.89	9.83	13.58	56.00	22.70	N
11.868	47.42	10.07	9.70	27.65	60.00	12.60	N

Final Result 2/AV

Frequency (MHz)	Measurement Result (dBμV)	Cable loss (dB)	Voltage diviation factor (dB)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Line (L/N)
0.195	38.90	9.85	9.79	19.25	53.80	14.90	L1
0.348	30.27	9.87	9.87	10.53	49.00	18.70	N
0.488	33.57	9.88	9.92	13.78	46.20	12.60	L1
0.627	34.70	9.84	9.87	14.99	46.00	11.30	L1
0.767	33.46	9.89	9.83	13.75	46.00	12.50	L1
12.102	33.68	10.07	9.70	13.91	50.00	16.30	L1

**EUT1 Charger1+Black screen+Turn off all functions+Turn off all communication Mode,
Set.11(EUT1, AE1, AE3, AE4)**

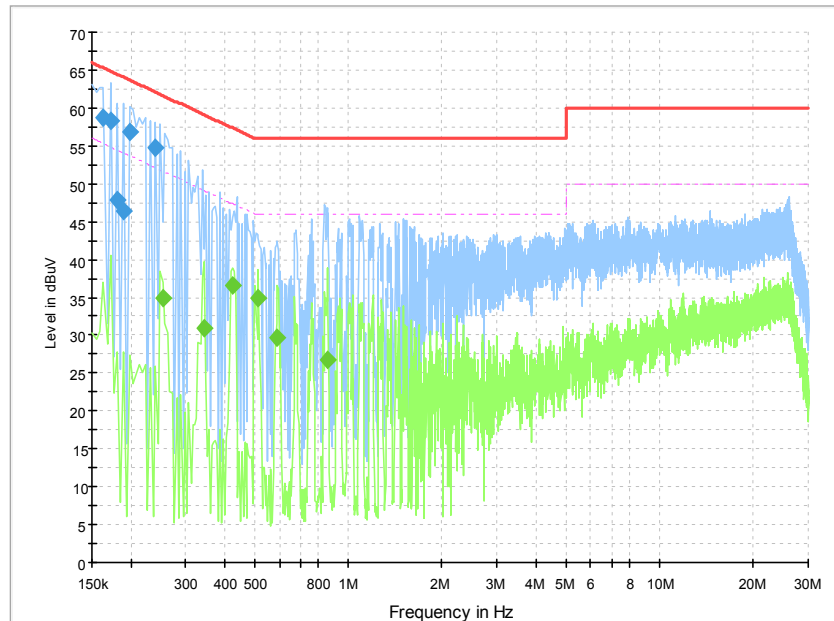


Figure A.16 Conducted Emission

Final Result 1/QP

Frequency (MHz)	Measurement Result (dBμV)	Cable loss (dB)	Voltage diviation factor (dB)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Line (L/N)
0.164	58.74	9.88	9.77	39.08	65.30	6.50	N
0.173	58.21	9.86	9.78	38.57	64.80	6.60	N
0.182	47.75	9.88	9.79	28.08	64.40	16.70	L1
0.191	46.44	9.88	9.79	26.77	64.00	17.60	L1
0.200	56.87	9.85	9.80	37.22	63.60	6.80	N
0.240	54.71	9.88	9.82	35.00	62.10	7.40	N

Final Result 2/AV

Frequency (MHz)	Measurement Result (dBμV)	Cable loss (dB)	Voltage diviation factor (dB)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Line (L/N)
0.254	34.89	9.88	9.83	15.18	51.60	16.80	N
0.344	30.95	9.88	9.87	11.20	49.10	18.20	N
0.425	36.48	9.88	9.90	16.70	47.40	10.90	L1
0.515	34.82	9.88	9.91	15.02	46.00	11.20	L1
0.591	29.70	9.83	9.88	9.99	46.00	16.30	L1
0.857	26.84	9.89	9.80	7.15	46.00	19.20	N

ANNEX B: Persons involved in this testing

Test Item	Tester
Conducted Continuous Emission	Li Zongliang
Radiated Continuous Emission	Guo Qian

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