FCC PART 15B
TEST REPORT

No. 24T04Z101872-021

for

Xiaomi Communications Co., Ltd.

Mobile Phone

Model Name: 24116RACCG

FCC ID: 2AFZZRACCG

with

Hardware Version: 1351000O6

Software Version: Xiaomi HyperOS 1.0

Issued Date: 2024-10-08

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z101872-021	Rev.0	1st edition	2024-10-08

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

CONTENTS

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 (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2024-09-06

Testing End Date: 2024-10-08

1.5. Signature

Wang Xue

(Prepared this test report)

Zhang Ying

(Reviewed this test report)

Zhang Xia

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name:	Xiaomi Communications Co., Ltd.
Address /Post:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Contact Name:	Zeng Qingyao
Telephone:	010-60606666-8088
Fax:	010-60606666-1101
E-mail:	mi-compliance@xiaomi.com

2.2. Manufacturer Information

Company Name:	Xiaomi Communications Co., Ltd.
Address /Post:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Contact Name:	Zeng Qingyao
Telephone:	010-60606666-8088
Fax:	010-60606666-1101
E-mail:	mi-compliance@xiaomi.com

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

3.1. About EUT

Description	Mobile Phone
Model Name	24116RACCG
FCC ID:	2AFZZRACCG

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*	SN or IMEI	HW Version	SW Version
EUT1	865991070068089/ 865991070068097	1351000O6	Xiaomi HyperOS 1.0
EUT2	865991070103704/ 865991070103712	1351000O6	Xiaomi HyperOS 1.0
EUT3	865991070085364/ 865991070085372	1351000O6	Xiaomi HyperOS 1.0
EUT4	865991070093962/ 865991070093970	1351000O6	Xiaomi HyperOS 1.0

*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	Model	Manufacture
AE1	Battery	/	/
AE2-1	Adapter1	/	/
AE2-2	Adapter2	/	/
AE2-3	Adapter3	/	/
AE3-1	Cable Type C-USB 1	/	/
AE3-2	Cable Type C-USB 2	/	/
AE3-3	Cable Type C-USB 3	/	/
AE4	Earphone	/	/

*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 + AE2-1 + AE3-2	Adapter1+Cable2+GSM850idle(SIM1)+LTE B5 idle (SIM2) + Front Camera
Set.2	EUT1 + AE1 + AE2-2 + AE3-2	Adapter2+Cable2+WCDMA B5 idle + Rear Camera
Set.3	EUT1 + AE1 + AE2-3 + AE3-2	Adapter3+Cable2+MP4 player from SD Card
Set.4	EUT1 + AE1 + AE2-1 + AE3-2 +AE4	Adapter1+Cable2+earphone FM Rx
Set.5	EUT1 + AE1 + AE3-2 + PC	Copy data from EUT to PC
Set.6	EUT1 + AE1 + AE3-2 + PC	Copy data from PC to EUT

Set.7	EUT1 + AE1 + AE3-3 + PC	Copy data from SD Card to PC
Set.8	EUT1 + AE1 + AE3-3 + PC	Copy data from PC to SD Card
Set.9	EUT1 + AE1 + AE3-1 + PC	PC play video from SD Card
Set.10	EUT1 + AE1 + AE3-1 + PC	PC play video from EUT
Set.11	EUT1 + AE1 +UT07a + typeC to typeC cable	OTG charging another EUT
Set.12	EUT1 + AE1 + USB flash disk	OTG data copy

Note:

Equipment Under Test (EUT) is a model of Mobile Phone.

It supports

GSM Band	GSM 850/900/1800/1900
UMTS Band	WCDMA B1/2/4/5/8
LTE Band	FDD_LTE: B1,2,3,4,5,7,8,12,13,17,20,26,28,66
	TDD_LTE: 38/40/41

It has MP3, Camera, USB memory, OTG, Bluetooth 5.2, Wi-Fi 2.4G (802.11b/g/n, support 20MHz bandwidth), Wi-Fi 5G(802.11a/n/ac, 802.11n support 20MHz and 40MHz bandwidth, 802.11ac support 20MHz, 40MHz, and 80MHz bandwidth), and NFC , GNSS functions.

The device contains receivers which tune and operate between 30MHz-960MHz in the following mode: GSM850, WCDMA850, LTE Band 5/12/13/17/26. All licensed band receivers that tune in the range of 30MHz-960MHz are investigated. Only the worst-case emissions are reported.

※The EUT has four source configurations. Based on the test conditions provided and the differences between supplies, the Conducted Emission and Radiated Emission of the 30MHz-1GHz frequency range for the second, third, and fourth supply samples was verified and tested, all of which passed the test. The worst-case and margin results are as follows.

Supply No.	Set-up	Working Mode	Test Item	Margin
2nd Source	EUT2 + AE1 + AE3-1 + PC	USB Copy data + mp4	Radiated Emission (30MHz-1GHz)	5.98dB
3rd Source	EUT3 + AE1 + AE3-1 + PC	USB Copy data + mp4	Radiated Emission (30MHz-1GHz)	6.77dB
4th Source	EUT4 + AE1 + AE3-1 + PC	USB Copy data + mp4	Radiated Emission (30MHz-1GHz)	5.86dB
2nd Source	EUT2 + AE1 + AE2-2 + AE3-2	Charging + Rear Camera	Conducted Emission	18.7dB
4th Source	EUT4 + AE1 + AE2-2 + AE3-2	Charging + Rear Camera	Conducted Emission	20.3dB

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 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	< 4Ω
Normalised site attenuation (NSA)	< ±4 dB, 3m 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 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	< 4Ω

6. SUMMARY OF TEST RESULTS

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

Items	Test Name	Clause in FCC rules	Section in this report	Verdict	Test Location
1	Radiated Emission	15.109(a)	B.1	P	**CTTL(huayuan North Road)**
2	Conducted Emission	15.107(a)	B.2	P	**CTTL(huayuan North Road)**

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESW44	103144	R&S	2024-11-26	1 Year
2	LISN	ENV216	101200	R&S	2025-05-16	1 year
3	Test Receiver	ESCI 7	100344	R&S	2025-04-01	1 Year
4	EMI Antenna	VULB 9163	01222	SCHWARZBECK	2025-07-30	1 year
5	EMI Antenna	3115	00167250	ETS-Lindgren	2025-04-11	1 year
6	Universal Communication Tester	CMW500	150344	R&S	2025-01-03	1 year
7	Universal Communication Tester	CMW500	167943	R&S	2025-02-15	1 year
8	Signal Generator	SMBV100A	260613	R&S	2025-01-18	1 year

Test software information		
Test Item	Software	Version
Radiated Emission	EMC32	V11.50.00
Conducted Emission	EMC32	V8.53.0

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/OTG mode of MS and charging mode of MS) at distances 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 3/10 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

A.1.2 EUT Operating Mode

The MS is operating in the USB mode, OTG mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode, and is connected to the other device for charging in OTG mode and 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.

The model of the PC is M4000E-17, and the serial number of the PC is M706GWXD. 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.

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 (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. 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:

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.

Measurement uncertainty (worst case): U = 4.84 dB, k=2.

Measurement results for Set.1:

Charing Mode: Adapter1+Cable2+GSM850idle(SIM1)+LTE B5 idle(SIM2) + Front Camera

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)
17961.580	43.80	-27.19	42.33	28.66	54.00	10.20	H
17974.160	43.80	-27.19	42.33	28.66	54.00	10.20	H
17963.280	43.70	-27.19	42.33	28.56	54.00	10.30	H
17941.860	43.70	-27.02	42.33	28.39	54.00	10.30	H
17980.960	43.60	-27.36	42.33	28.64	54.00	10.40	V
17961.240	43.60	-27.19	42.33	28.46	54.00	10.40	V

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)
17949.680	55.30	-27.02	42.33	39.99	74.00	18.70	V
17972.460	54.80	-27.19	42.33	39.66	74.00	19.20	V
17962.600	54.20	-27.19	42.33	39.06	74.00	19.80	H
17959.200	54.10	-27.02	42.33	38.79	74.00	19.90	V
17841.560	53.80	-27.40	42.24	38.96	74.00	20.20	H
17950.700	53.80	-27.02	42.33	38.49	74.00	20.20	V

Measurement results for Set.2:

Charing Mode: Adapter2+Cable2+WCDMA B5 idle + Rear Camera

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)
17958.520	44.00	-27.02	42.33	28.69	54.00	10.00	V
17955.800	43.90	-27.02	42.33	28.59	54.00	10.10	H
17912.280	43.70	-26.91	42.24	28.38	54.00	10.30	H
17908.540	43.70	-26.91	42.24	28.38	54.00	10.30	H
17946.280	43.60	-27.02	42.33	28.29	54.00	10.40	V
17949.680	43.60	-27.02	42.33	28.29	54.00	10.40	V

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)
17912.620	54.10	-26.91	42.24	38.78	74.00	19.90	H
17961.920	54.10	-27.19	42.33	38.96	74.00	19.90	H
17959.540	54.00	-27.02	42.33	38.69	74.00	20.00	H
17954.440	53.90	-27.02	42.33	38.59	74.00	20.10	H
17943.220	53.90	-27.02	42.33	38.59	74.00	20.10	H
17956.820	53.80	-27.02	42.33	38.49	74.00	20.20	V

Measurement results for Set.3:

Charing Mode: Adapter3+Cable2+MP4 player from SD Card

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)
17971.100	44.10	-27.19	42.33	28.96	54.00	9.90	H
17963.280	44.00	-27.19	42.33	28.86	54.00	10.00	H
17954.100	43.90	-27.02	42.33	28.59	54.00	10.10	H
17960.900	43.90	-27.19	42.33	28.76	54.00	10.10	V
17969.060	43.80	-27.19	42.33	28.66	54.00	10.20	H
17966.680	43.80	-27.19	42.33	28.66	54.00	10.20	H

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)
17944.580	55.10	-27.02	42.33	39.79	74.00	18.90	H
17928.600	55.00	-26.85	42.33	39.52	74.00	19.00	V
17899.700	54.70	-27.07	42.24	39.54	74.00	19.30	H
17419.620	54.70	-27.50	41.96	40.24	74.00	19.30	H
17935.400	54.30	-26.85	42.33	38.82	74.00	19.70	V
17930.300	54.30	-26.85	42.33	38.82	74.00	19.70	H

Measurement results for Set.4:

Charing Mode: Adapter1+Cable2+earphone FM Rx

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)
17965.660	44.00	-27.19	42.33	28.86	54.00	10.00	V
17944.240	44.00	-27.02	42.33	28.69	54.00	10.00	V
17959.200	44.00	-27.02	42.33	28.69	54.00	10.00	H
17955.460	43.90	-27.02	42.33	28.59	54.00	10.10	H
17894.260	43.90	-27.07	42.24	28.74	54.00	10.10	H
17956.820	43.80	-27.02	42.33	28.49	54.00	10.20	V

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)
17950.020	54.30	-27.02	42.33	38.99	74.00	19.70	H
17961.240	54.30	-27.19	42.33	39.16	74.00	19.70	V
17905.820	54.10	-26.91	42.24	38.78	74.00	19.90	V
17917.720	54.00	-26.91	42.33	38.58	74.00	20.00	V
17973.140	53.90	-27.19	42.33	38.76	74.00	20.10	V
17971.780	53.80	-27.19	42.33	38.66	74.00	20.20	V

Measurement results for Set.5:

USB Data Copy Mode: Copy data from EUT to PC with Cable2

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)
6046.960	44.90	-36.36	35.18	46.08	54.00	9.10	V
6046.620	44.00	-36.36	35.18	45.18	54.00	10.00	V
17950.360	43.80	-27.02	42.33	28.49	54.00	10.20	H
17912.280	43.70	-26.91	42.24	28.38	54.00	10.30	H
17946.960	43.70	-27.02	42.33	28.39	54.00	10.30	H
17950.700	43.60	-27.02	42.33	28.29	54.00	10.40	V

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)
1199.580	57.50	-39.86	24.67	72.69	74.00	16.50	V
3585.360	57.10	-38.18	30.40	64.88	74.00	16.90	V
3592.500	55.00	-38.18	30.40	62.78	74.00	19.00	V
3593.520	54.80	-38.18	30.40	62.58	74.00	19.20	H
3584.000	54.60	-38.18	30.40	62.38	74.00	19.40	H
17916.700	54.10	-26.91	42.33	38.68	74.00	19.90	V

Measurement results for Set.6:

USB Data Copy Mode: Copy data from PC to EUT with Cable2

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)
6047.640	44.30	-36.36	35.18	45.48	54.00	9.70	V
17960.900	43.90	-27.19	42.33	28.76	54.00	10.10	V
17951.720	43.90	-27.02	42.33	28.59	54.00	10.10	V
17955.120	43.90	-27.02	42.33	28.59	54.00	10.10	H
17938.460	43.80	-26.85	42.33	28.32	54.00	10.20	H
17965.320	43.80	-27.19	42.33	28.66	54.00	10.20	H

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)
3597.600	58.20	-38.18	30.40	65.98	74.00	15.80	V
3597.260	56.20	-38.18	30.40	63.98	74.00	17.80	V
3595.560	55.90	-38.18	30.40	63.68	74.00	18.10	H
17937.780	55.40	-26.85	42.33	39.92	74.00	18.60	V
17973.480	54.40	-27.19	42.33	39.26	74.00	19.60	V
17938.460	54.10	-26.85	42.33	38.62	74.00	19.90	H

Measurement results for Set.7:

USB Data Copy Mode: Copy data from SD Card to PC with Cable3

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)
6047.640	44.50	-36.36	35.18	45.68	54.00	9.50	V
6047.980	44.40	-36.36	35.18	45.58	54.00	9.60	V
17949.340	43.80	-27.02	42.33	28.49	54.00	10.20	H
17952.060	43.70	-27.02	42.33	28.39	54.00	10.30	H
17917.380	43.60	-26.91	42.33	28.18	54.00	10.40	V
17950.020	43.60	-27.02	42.33	28.29	54.00	10.40	H

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)
3588.760	58.00	-38.18	30.40	65.78	74.00	16.00	V
3585.020	55.30	-38.18	30.40	63.08	74.00	18.70	H
17931.660	54.60	-26.85	42.33	39.12	74.00	19.40	V
17937.100	54.40	-26.85	42.33	38.92	74.00	19.60	H
17953.080	54.10	-27.02	42.33	38.79	74.00	19.90	V
17926.560	53.90	-26.85	42.33	38.42	74.00	20.10	V

Measurement results for Set.8:

USB Data Copy Mode: Copy data from PC to SD Card with Cable3

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)
6048.320	46.00	-36.36	35.18	47.18	54.00	8.00	V
6048.660	44.70	-36.36	35.18	45.88	54.00	9.30	V
6047.980	44.00	-36.36	35.18	45.18	54.00	10.00	V
17955.460	43.60	-27.02	42.33	28.29	54.00	10.40	H
17990.140	43.60	-27.36	42.33	28.64	54.00	10.40	V
17958.520	43.60	-27.02	42.33	28.29	54.00	10.40	V

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)
3597.260	55.20	-38.18	30.40	62.98	74.00	18.80	H
3597.600	55.10	-38.18	30.40	62.88	74.00	18.90	H
17950.020	54.80	-27.02	42.33	39.49	74.00	19.20	V
17950.700	54.70	-27.02	42.33	39.39	74.00	19.30	V
17904.120	54.30	-26.91	42.24	38.98	74.00	19.70	V
17938.460	54.20	-26.85	42.33	38.72	74.00	19.80	H

Measurement results for Set.9:

USB Data Copy Mode: PC play video from SD Card with Cable1

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)
6050.360	44.50	-36.36	35.18	45.68	54.00	9.50	V
6050.700	44.40	-36.36	35.18	45.58	54.00	9.60	V
17978.580	44.00	-27.19	42.33	28.86	54.00	10.00	H
17963.960	43.90	-27.19	42.33	28.76	54.00	10.10	H
17961.920	43.90	-27.19	42.33	28.76	54.00	10.10	H
17960.900	43.90	-27.19	42.33	28.76	54.00	10.10	H

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)
3586.380	59.50	-38.18	30.40	67.28	74.00	14.50	V
2389.240	57.60	-38.92	27.41	69.11	74.00	16.40	V
3597.940	56.40	-38.18	30.40	64.18	74.00	17.60	V
3595.560	55.00	-38.18	30.40	62.78	74.00	19.00	V
17990.480	55.00	-27.36	42.33	40.04	74.00	19.00	V
17950.700	54.70	-27.02	42.33	39.39	74.00	19.30	V

Measurement results for Set.10:

USB Data Copy Mode: PC play video from EUT with Cable1

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)
6048.320	45.50	-36.36	35.18	46.68	54.00	8.50	V
6048.660	45.00	-36.36	35.18	46.18	54.00	9.00	V
17950.020	43.90	-27.02	42.33	28.59	54.00	10.10	V
17941.860	43.80	-27.02	42.33	28.49	54.00	10.20	V
17953.420	43.80	-27.02	42.33	28.49	54.00	10.20	V
17935.740	43.70	-26.85	42.33	28.22	54.00	10.30	H

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)
3587.400	57.40	-38.18	30.40	65.18	74.00	16.60	V
2391.280	56.60	-38.92	27.41	68.11	74.00	17.40	V
17970.080	56.50	-27.19	42.33	41.36	74.00	17.50	H
2396.720	56.00	-38.92	27.41	67.51	74.00	18.00	V
3594.200	55.80	-38.18	30.40	63.58	74.00	18.20	V
3599.980	55.60	-38.18	30.40	63.38	74.00	18.40	V

Measurement results for Set.11:

OTG Mode: OTG Charging

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)
17954.780	43.80	-27.02	42.33	28.49	54.00	10.20	V
17974.840	43.70	-27.19	42.33	28.56	54.00	10.30	V
17964.980	43.70	-27.19	42.33	28.56	54.00	10.30	V
17958.520	43.60	-27.02	42.33	28.29	54.00	10.40	V
17921.120	43.60	-26.85	42.33	28.12	54.00	10.40	H
17845.640	43.60	-27.40	42.24	28.76	54.00	10.40	V

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)
17938.800	54.60	-26.85	42.33	39.12	74.00	19.40	V
17930.300	54.60	-26.85	42.33	39.12	74.00	19.40	H
17929.960	54.30	-26.85	42.33	38.82	74.00	19.70	H
17945.940	54.30	-27.02	42.33	38.99	74.00	19.70	H
17850.060	54.00	-27.40	42.24	39.16	74.00	20.00	V
17887.460	54.00	-27.07	42.24	38.84	74.00	20.00	H

Measurement results for Set.12:

OTG Mode: OTG data copy with USB flash disk

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)
17925.200	44.10	-26.85	42.33	28.62	54.00	9.90	H
17990.480	44.10	-27.36	42.33	29.14	54.00	9.90	V
17950.360	43.90	-27.02	42.33	28.59	54.00	10.10	H
17972.460	43.80	-27.19	42.33	28.66	54.00	10.20	H
17973.480	43.70	-27.19	42.33	28.56	54.00	10.30	H
17953.420	43.70	-27.02	42.33	28.39	54.00	10.30	H

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)
17951.380	54.80	-27.02	42.33	39.49	74.00	19.20	H
17971.780	54.50	-27.19	42.33	39.36	74.00	19.50	H
17975.520	54.30	-27.19	42.33	39.16	74.00	19.70	V
17916.360	54.30	-26.91	42.33	38.88	74.00	19.70	H
17950.360	54.10	-27.02	42.33	38.79	74.00	19.90	V
17907.860	54.00	-26.91	42.24	38.68	74.00	20.00	V

Measurement results for Set.1(Adapter1+Cable2+GSM850idle(SIM1)+LTE B5 idle (SIM2) + Front Camera):

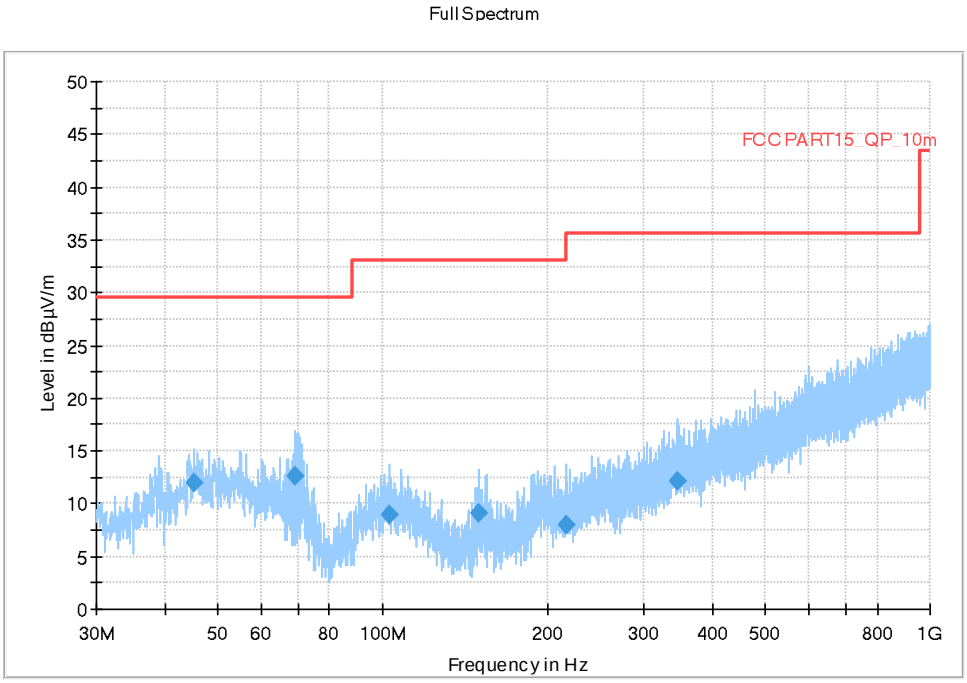

Fig A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
45.180500	12.03	29.54	17.51	120.000	123.0	V	135.0
68.994000	12.65	29.54	16.89	120.000	100.0	V	256.0
102.604500	8.94	33.06	24.12	120.000	125.0	V	225.0
149.892000	9.16	33.06	23.90	120.000	123.0	V	-8.0
215.949000	7.93	33.06	25.13	120.000	284.0	V	286.0
344.377000	12.17	35.56	23.39	120.000	285.0	V	225.0

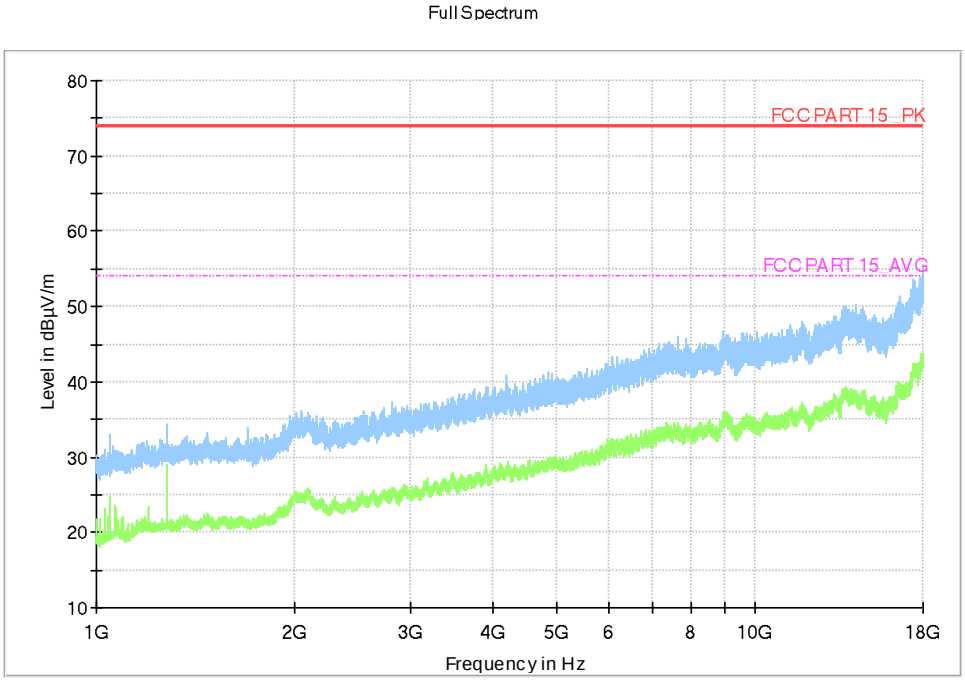

Fig A.2 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.2(Adapter2+Cable2+WCDMA B5 idle + Rear Camera):

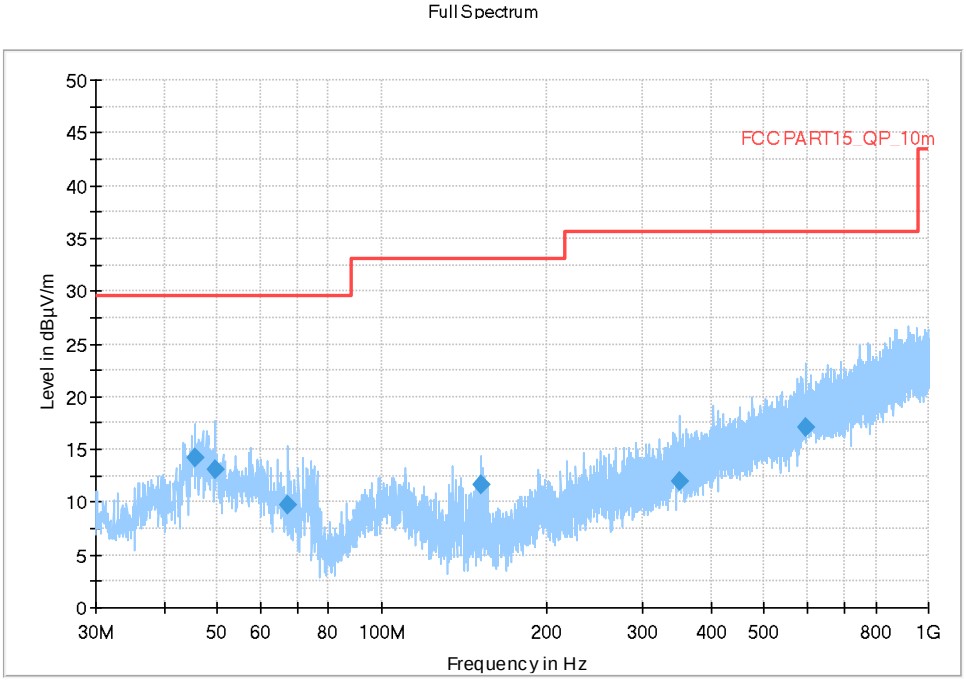

Fig A.3 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
45.665500	14.26	29.54	15.28	120.000	184.0	V	315.0
49.691000	13.08	29.54	16.46	120.000	100.0	V	0.0
67.296500	9.71	29.54	19.83	120.000	109.0	V	248.0
152.220000	11.66	33.06	21.40	120.000	100.0	V	-7.0
350.924500	12.05	35.56	23.51	120.000	283.0	H	173.0
597.062000	17.12	35.56	18.44	120.000	308.0	V	9.0

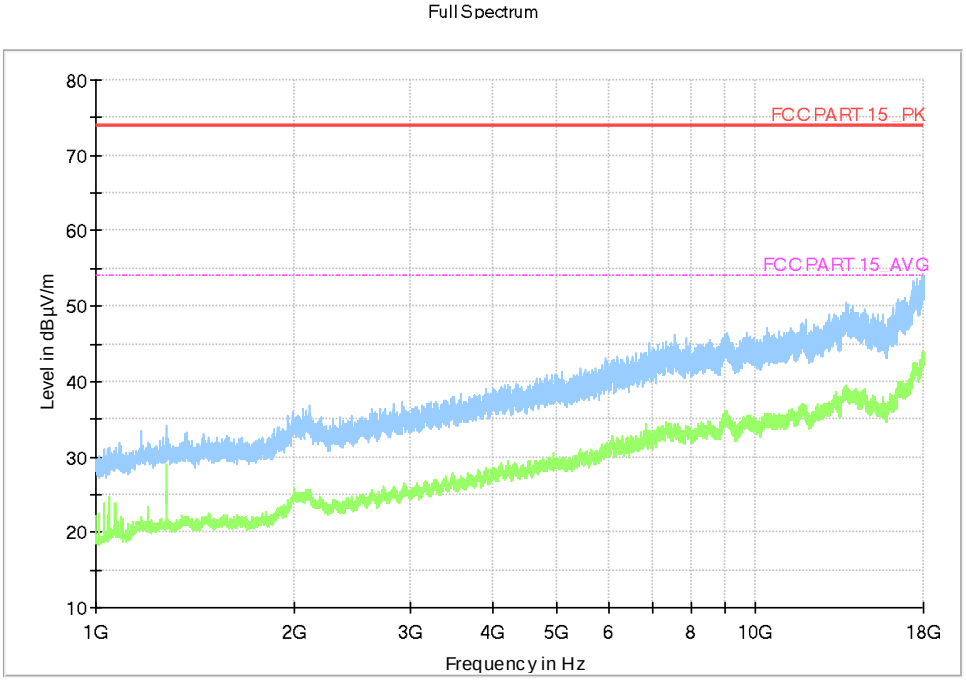

Fig A.4 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.3(Adapter3+Cable2+MP4 player from SD Card):

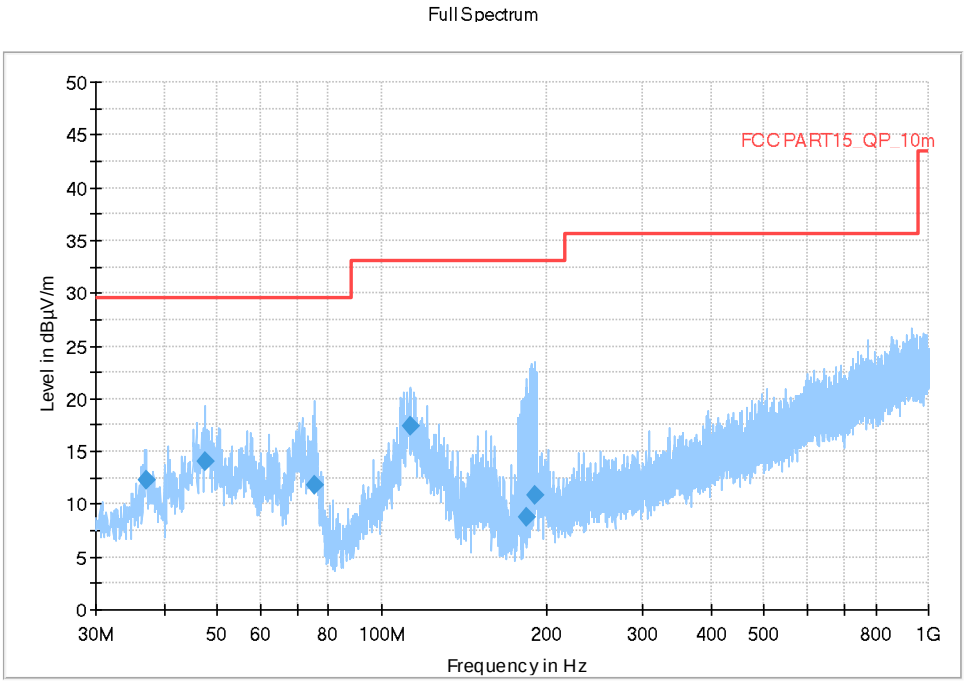

Fig A.5 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
37.129500	12.29	29.54	17.25	120.000	275.0	V	23.0
47.557000	14.08	29.54	15.46	120.000	101.0	V	270.0
75.299000	11.84	29.54	17.70	120.000	225.0	V	-23.0
112.450000	17.39	33.06	15.67	120.000	104.0	V	190.0
183.551000	8.80	33.06	24.26	120.000	190.0	V	61.0
190.438000	10.82	33.06	22.24	120.000	183.0	V	256.0

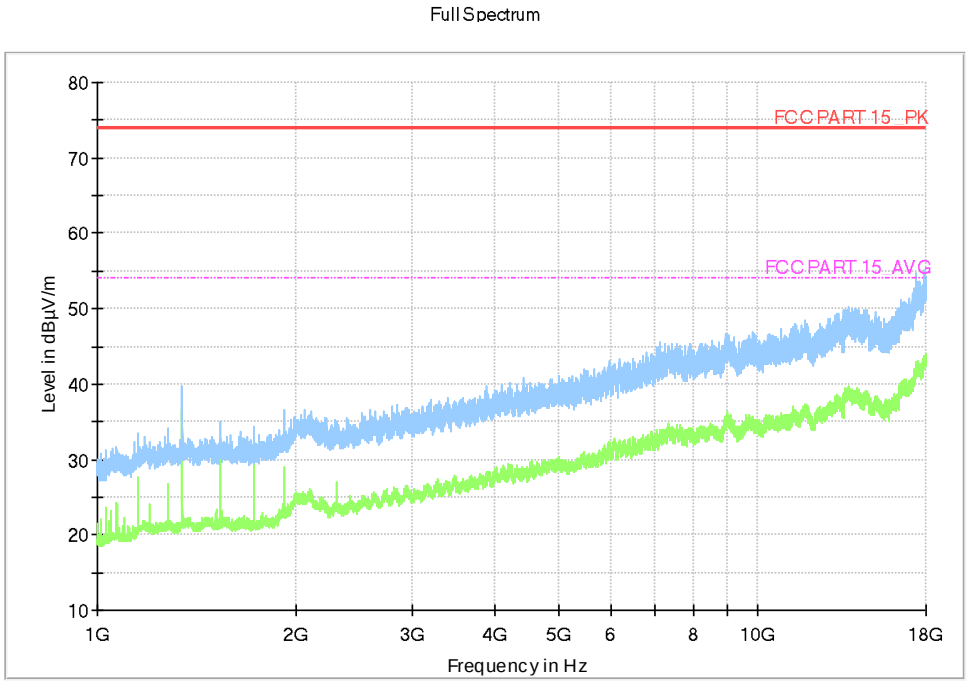

Fig A.6 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.4(Adapter1+Cable2+earphone FM Rx):

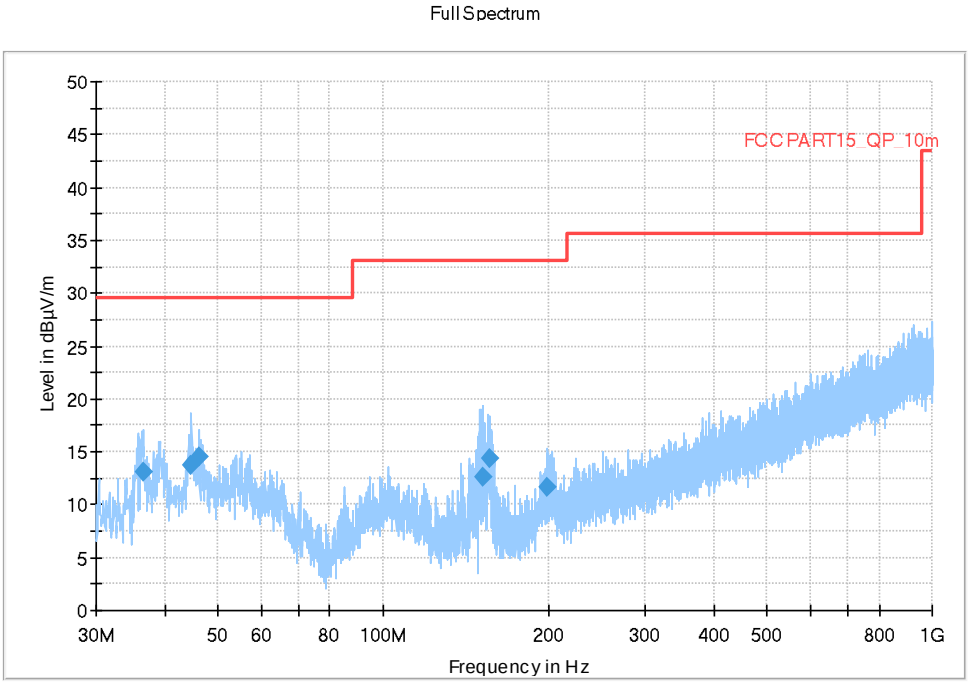

Fig A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
36.596000	13.14	29.54	16.40	120.000	125.0	V	151.0
44.744000	13.74	29.54	15.80	120.000	288.0	V	196.0
46.199000	14.57	29.54	14.97	120.000	115.0	V	61.0
151.783500	12.63	33.06	20.43	120.000	123.0	V	135.0
156.148500	14.43	33.06	18.63	120.000	101.0	V	1.0
199.556000	11.61	33.06	21.45	120.000	290.0	V	248.0

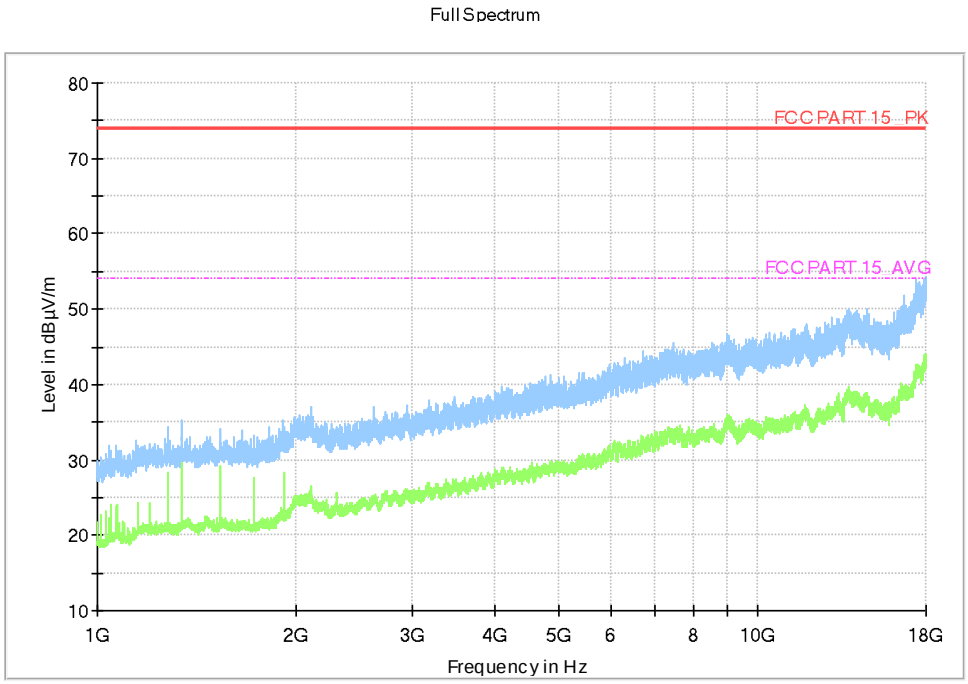

Fig A.8 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.5(Copy data from EUT to PC with Cable2):

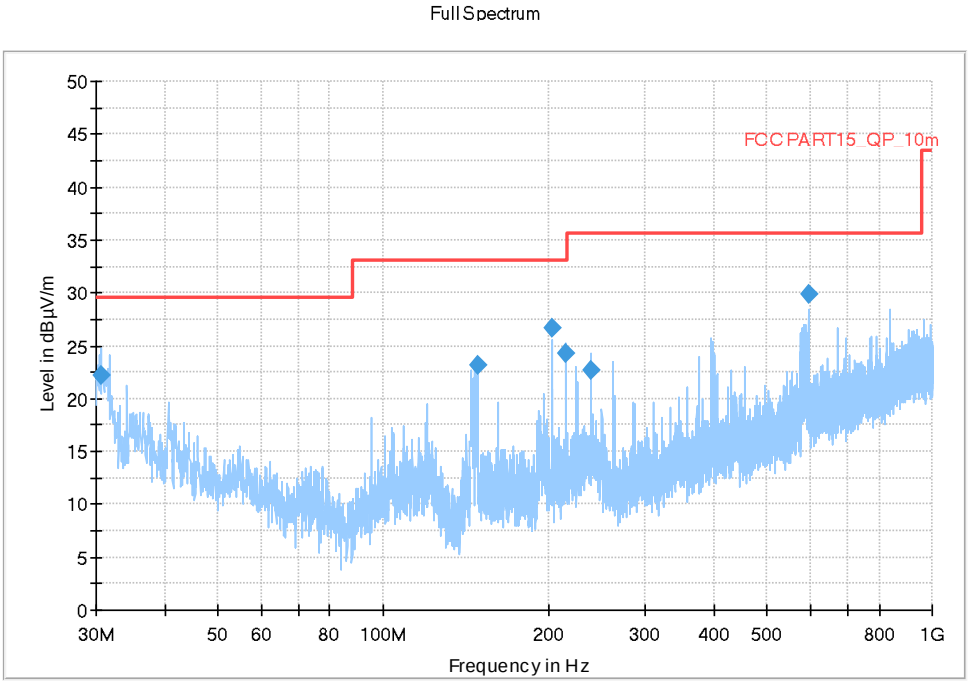

Fig A.9 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
30.679000	22.17	29.54	7.37	120.000	100.0	V	46.0
148.291500	23.12	33.06	9.94	120.000	114.0	V	-21.0
202.611500	26.67	33.06	6.39	120.000	313.0	H	-22.0
214.591000	24.30	33.06	8.76	120.000	291.0	H	75.0
238.453000	22.70	35.56	12.86	120.000	323.0	H	90.0
594.152000	29.82	35.56	5.74	120.000	223.0	V	315.0

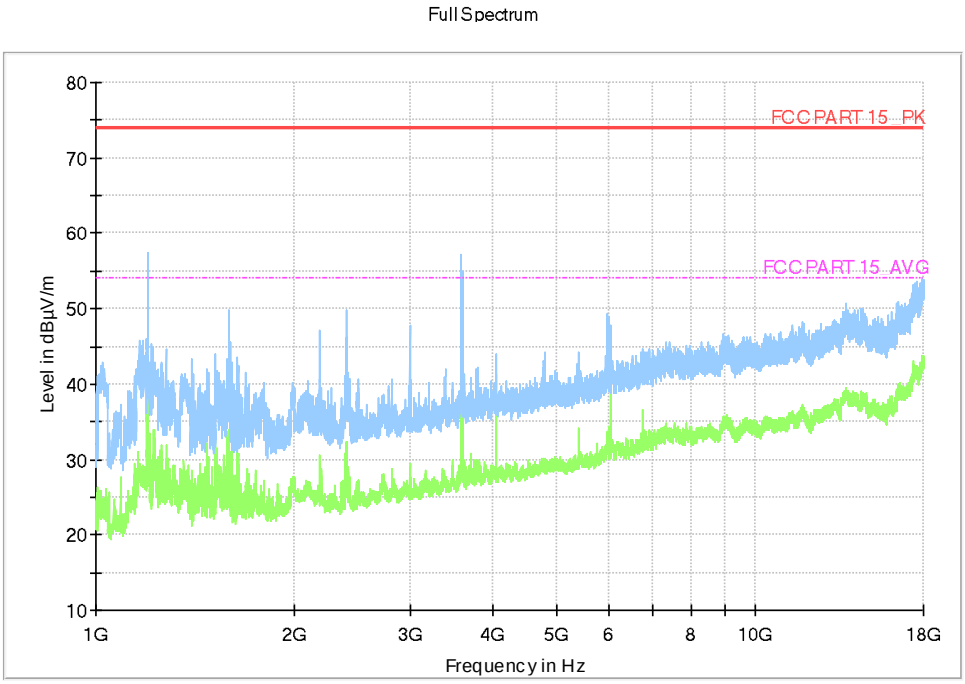

Fig A.10 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.6(Copy data from PC to EUT with Cable2):

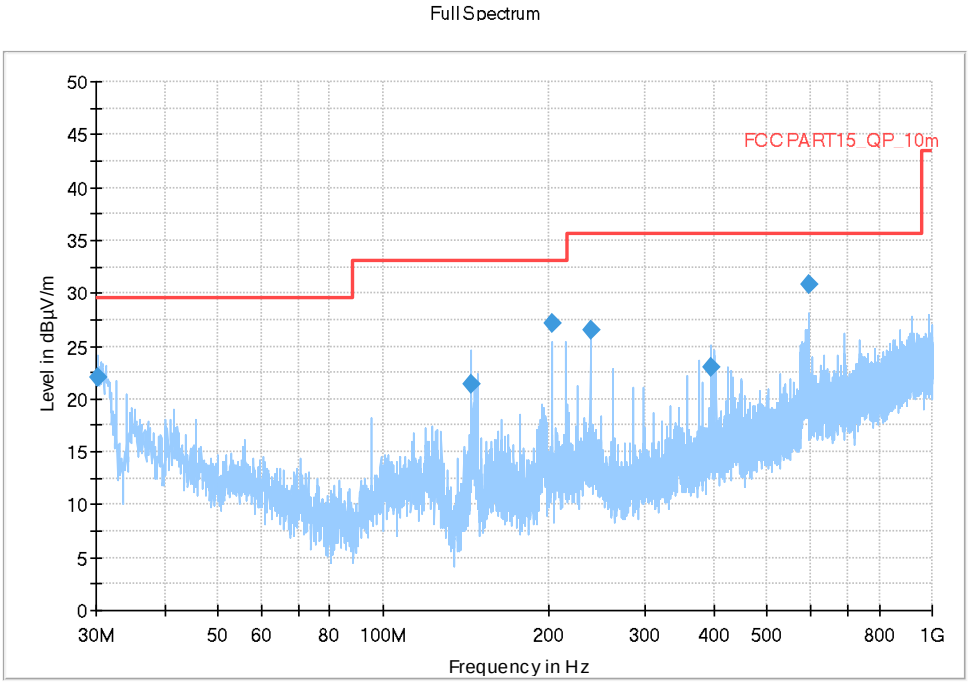

Fig A.11 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
30.242500	22.11	29.54	7.43	120.000	101.0	V	226.0
144.460000	21.40	33.06	11.66	120.000	176.0	V	-30.0
202.563000	27.15	33.06	5.92	120.000	308.0	H	-21.0
238.307500	26.52	35.56	9.04	120.000	325.0	H	8.0
396.369000	23.01	35.56	12.55	120.000	176.0	H	166.0
594.637000	30.81	35.56	4.75	120.000	199.0	V	-45.0

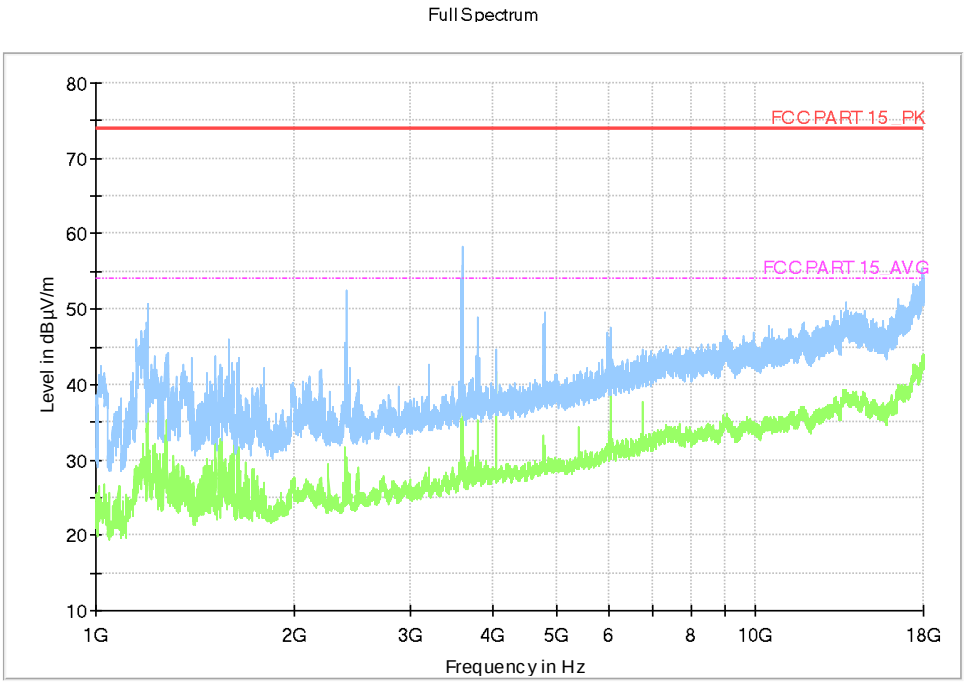

Fig A.12 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.7(Copy data from SD Card to PC with Cable2):

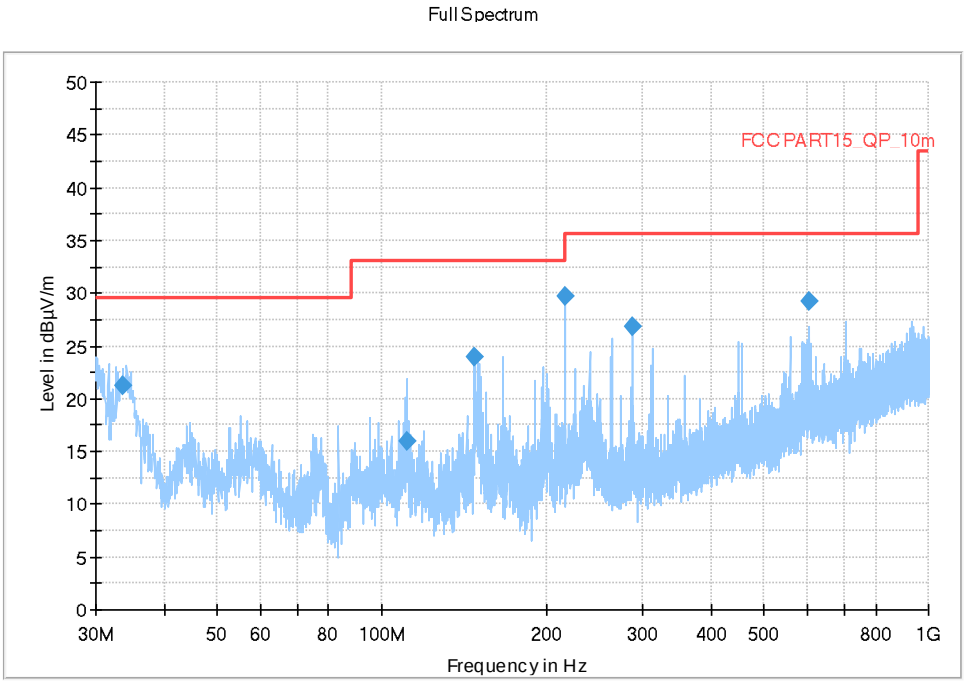

Fig A.13 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
33.492000	21.26	29.54	8.28	120.000	125.0	V	227.0
111.092000	15.99	33.06	17.07	120.000	100.0	V	196.0
147.952000	24.00	33.06	9.06	120.000	100.0	V	-45.0
215.997500	29.79	33.06	3.27	120.000	305.0	H	193.0
287.971500	26.83	35.56	8.73	120.000	325.0	H	174.0
605.307000	29.29	35.56	6.27	120.000	225.0	V	315.0

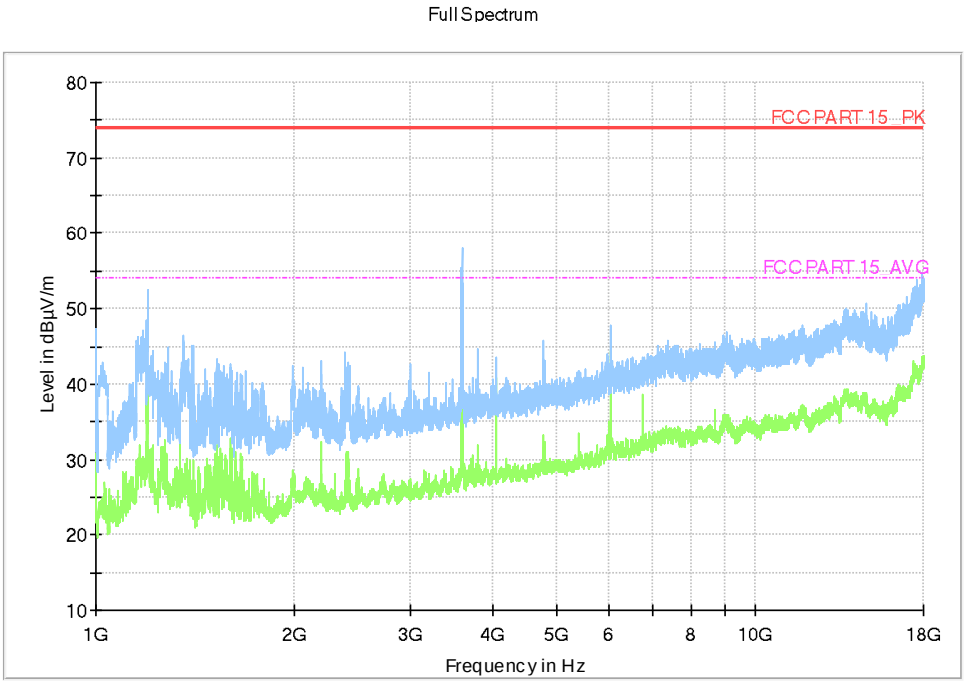

Fig A.14 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.8(Copy data from PC to SD Card with Cable2):

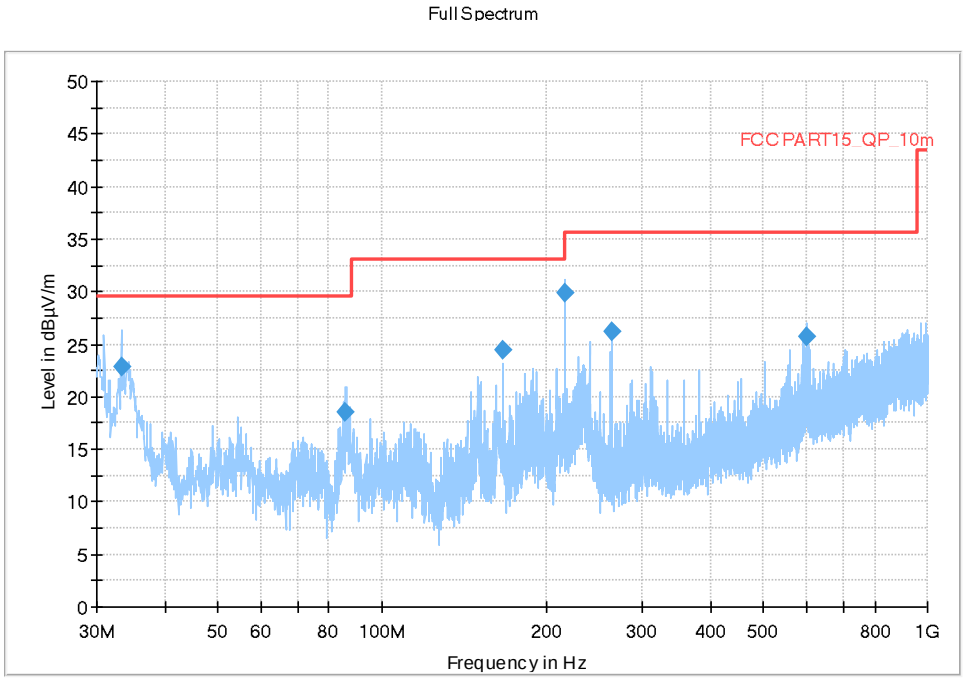

Fig A.15 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
33.298000	22.91	29.54	6.63	120.000	104.0	V	227.0
85.872000	18.55	29.54	10.99	120.000	179.0	V	45.0
166.964000	24.42	33.06	8.64	120.000	325.0	H	225.0
215.997500	29.87	33.06	3.19	120.000	283.0	H	180.0
264.012500	26.19	35.56	9.37	120.000	290.0	H	174.0
599.584000	25.68	35.56	9.88	120.000	223.0	V	-45.0

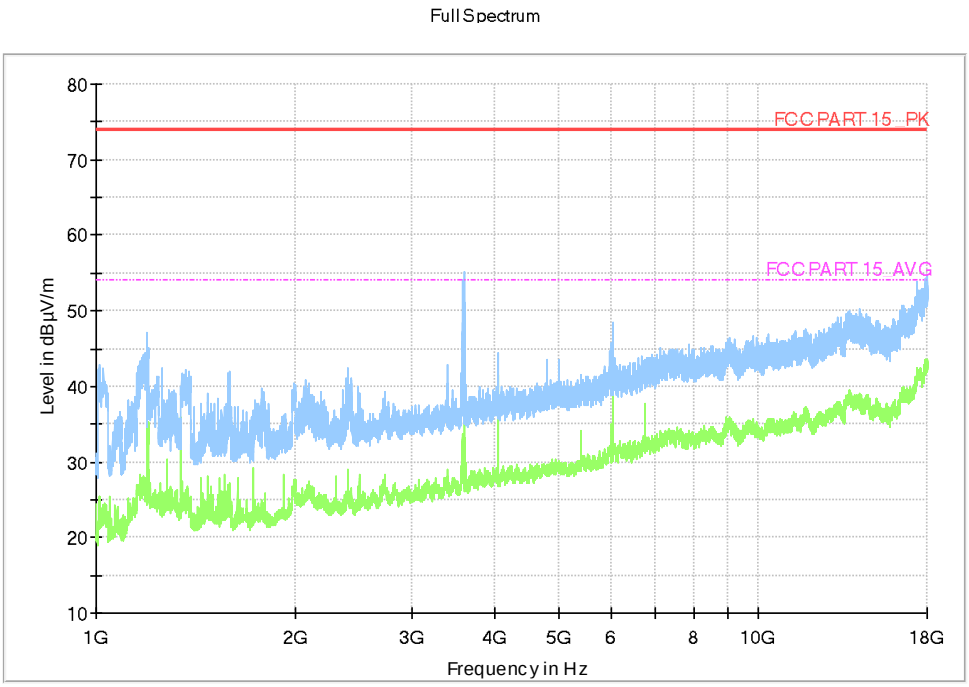

Fig A.16 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.9(PC play video from SD Card with Cable3):

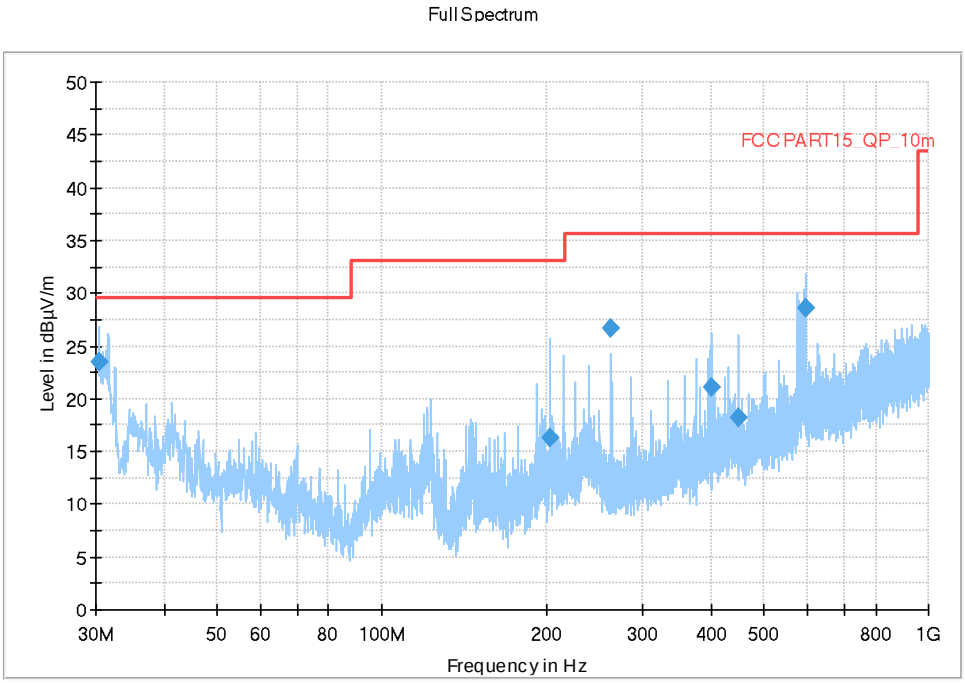

Fig A.17 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
30.436500	23.49	29.54	6.05	120.000	120.0	V	225.0
203.048000	16.37	33.06	16.69	120.000	100.0	V	4.0
262.218000	26.71	35.56	8.85	120.000	325.0	H	9.0
399.618500	21.04	35.56	14.52	120.000	200.0	H	165.0
450.010000	18.27	35.56	17.29	120.000	225.0	H	53.0
594.200500	28.52	35.56	7.04	120.000	225.0	V	-14.0

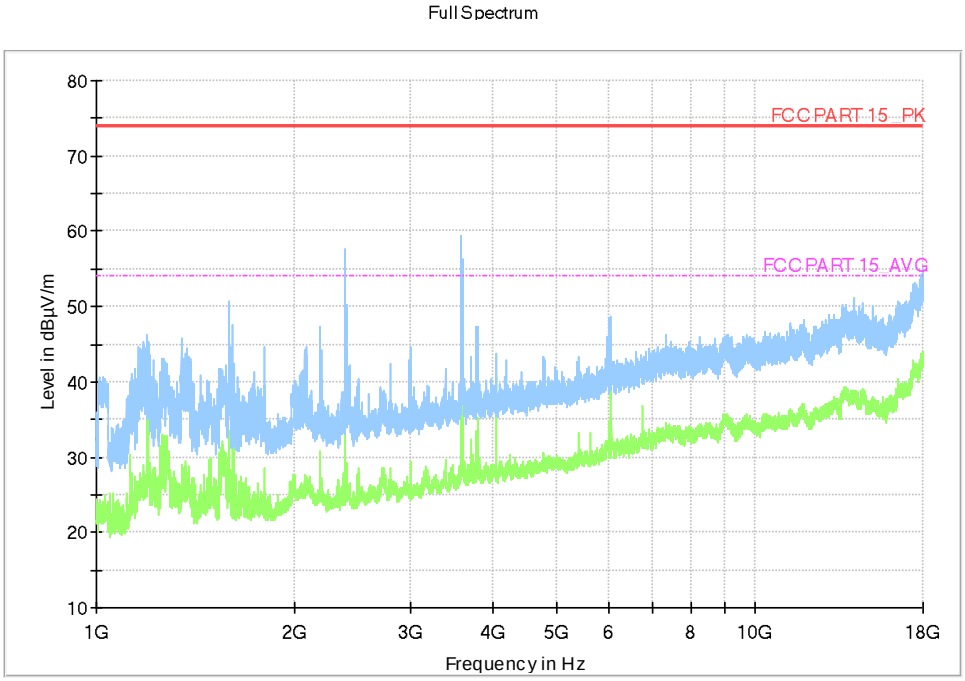

Fig A.18 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.10(PC play video from EUT with Cable3):

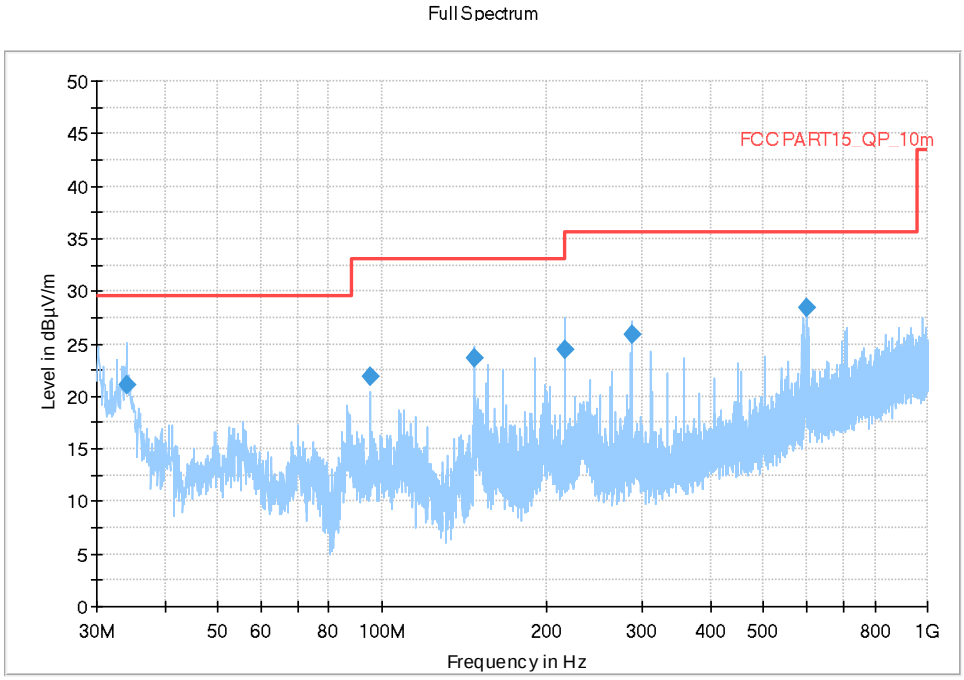

Fig A.19 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
34.025500	21.10	29.54	8.44	120.000	225.0	V	135.0
95.378000	21.83	33.06	11.23	120.000	125.0	V	25.0
147.758000	23.59	33.06	9.47	120.000	125.0	V	-37.0
215.949000	24.47	33.06	8.59	120.000	290.0	H	172.0
288.020000	25.91	35.56	9.65	120.000	325.0	H	-1.0
600.748000	28.45	35.56	7.11	120.000	225.0	V	315.0

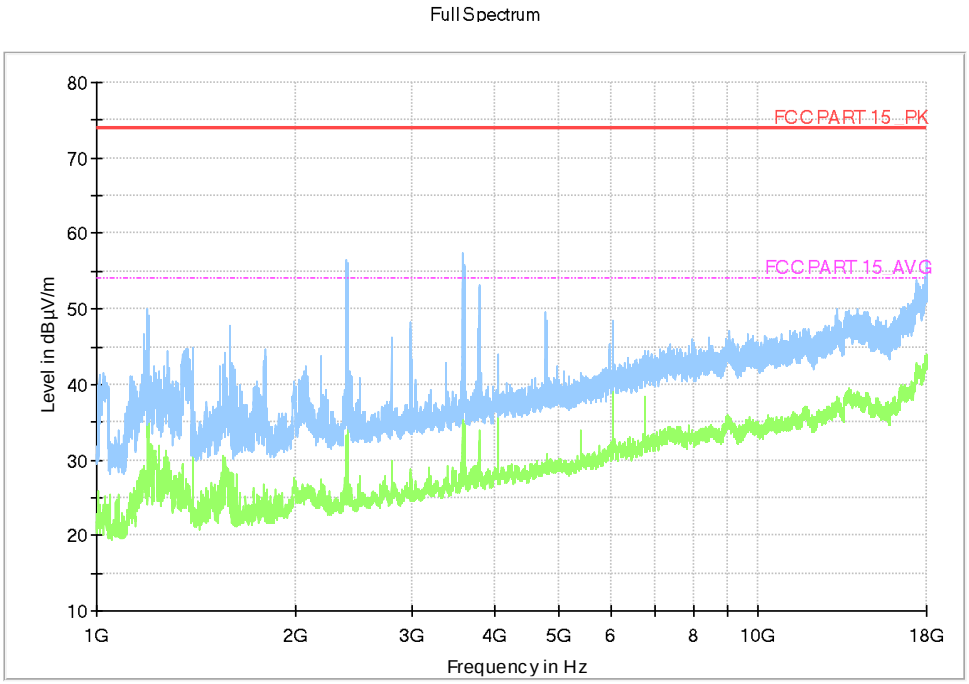

Fig A.20 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.11(OTG charging another EUT):

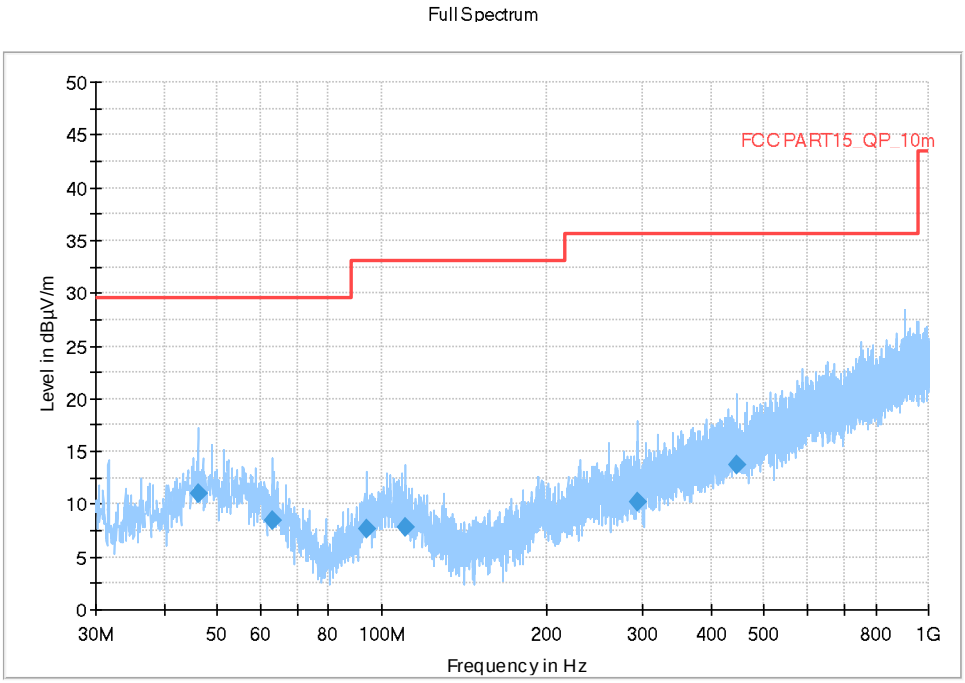

Fig A.21 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
46.102000	11.02	29.54	18.52	120.000	179.0	V	204.0
63.077000	8.50	29.54	21.04	120.000	279.0	V	197.0
93.729000	7.64	33.06	25.42	120.000	125.0	H	106.0
110.704000	7.85	33.06	25.21	120.000	325.0	H	68.0
293.355000	10.25	35.56	25.31	120.000	115.0	V	-14.0
445.451000	13.66	35.56	21.90	120.000	220.0	H	165.0

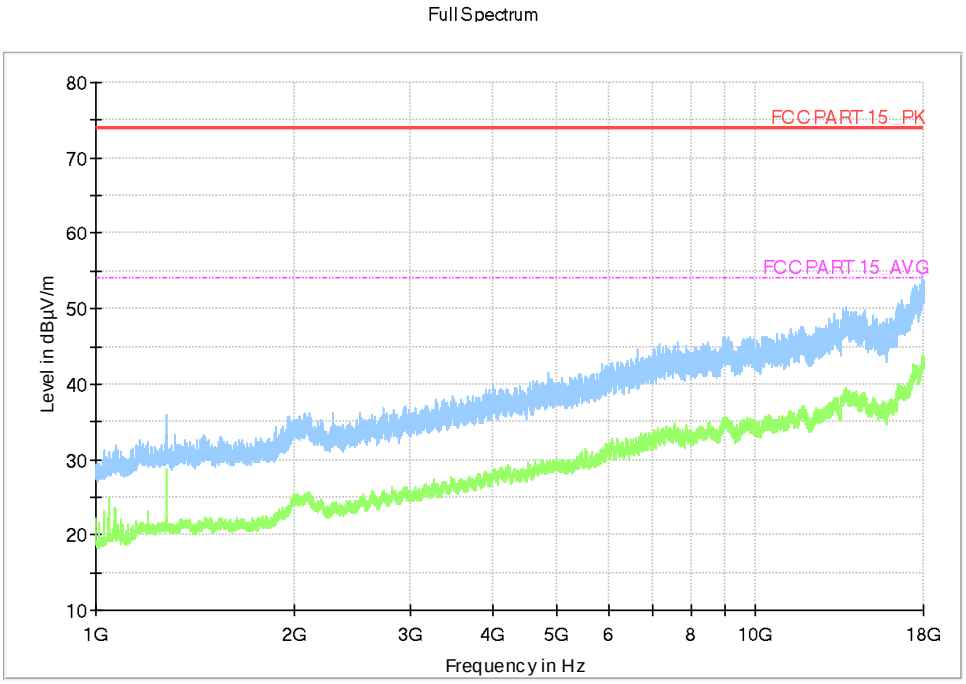

Fig A.22 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.12(OTG data copy with USB flash disk):

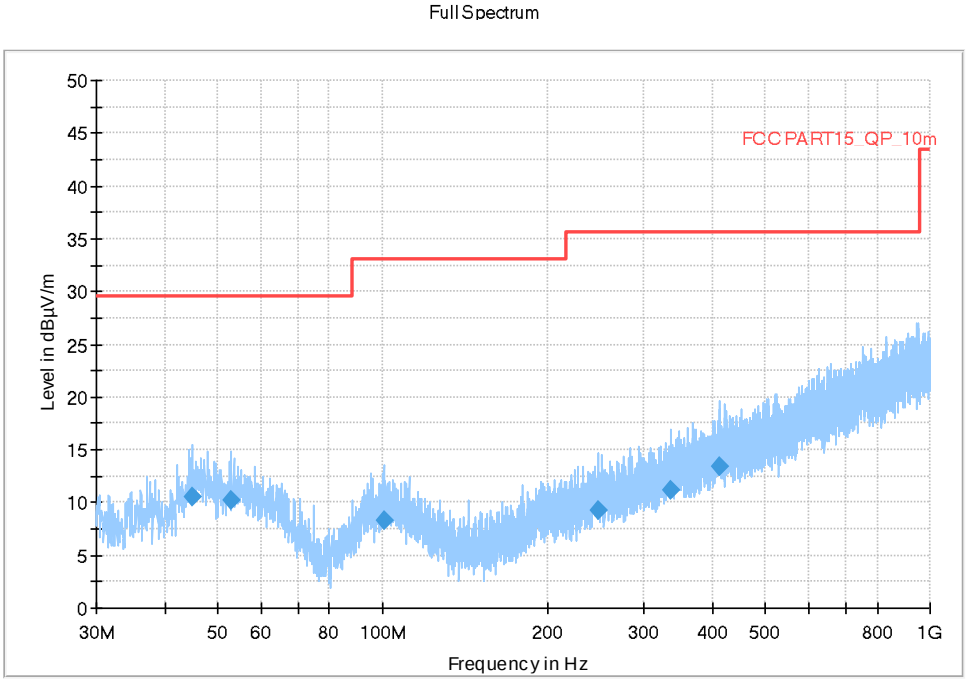

Fig A.23 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
44.841000	10.62	29.54	18.92	120.000	215.0	H	212.0
52.795000	10.29	29.54	19.25	120.000	175.0	V	166.0
100.422000	8.31	33.06	24.75	120.000	123.0	H	225.0
247.765000	9.34	35.56	26.22	120.000	215.0	V	91.0
335.162000	11.23	35.56	24.33	120.000	115.0	H	159.0
412.907500	13.38	35.56	22.18	120.000	109.0	V	38.0

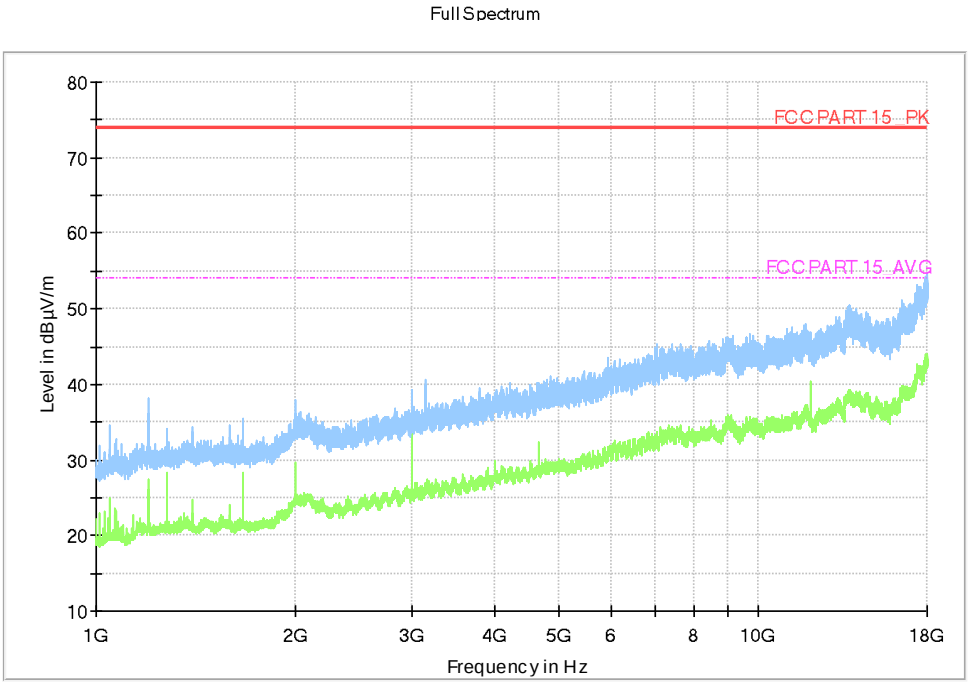

Fig A.24 Radiated Emission from 1GHz to 18GHz

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 and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode. The model of the PC is DELL M4000E-17, and the serial number of the PC is M706GWXD. 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 (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*= 3.08 dB, *k*=2.

Charging Mode, Set.1(Adapter1+Cable2+GSM850idle(SIM1)+LTE B5 idle (SIM2) + Front Camera):

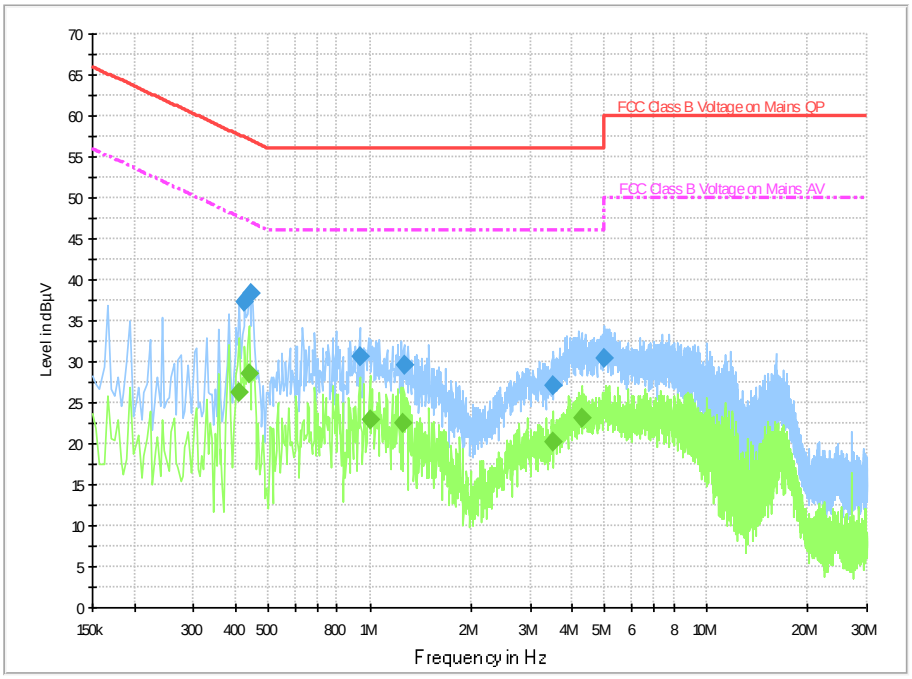

Fig A.25 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.426000	37.2	2000.0	9.000	On	L1	20.0	20.1	57.3	
0.446000	38.4	2000.0	9.000	On	N	19.9	18.6	56.9	
0.934000	30.7	2000.0	9.000	On	N	19.7	25.3	56.0	
1.266000	29.5	2000.0	9.000	On	N	19.7	26.5	56.0	
3.498000	27.0	2000.0	9.000	On	L1	19.8	29.0	56.0	
4.978000	30.4	2000.0	9.000	On	N	19.6	25.6	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.410000	26.4	2000.0	9.000	On	N	19.9	21.3	47.6	
0.438000	28.5	2000.0	9.000	On	L1	20.0	18.6	47.1	
1.002000	22.9	2000.0	9.000	On	N	19.7	23.1	46.0	
1.262000	22.5	2000.0	9.000	On	N	19.7	23.5	46.0	
3.510000	20.2	2000.0	9.000	On	L1	19.8	25.8	46.0	
4.250000	23.1	2000.0	9.000	On	N	19.6	22.9	46.0	

Charging Mode, Set.2(Adapter2+Cable2+WCDMA B5 idle + Rear Camera):

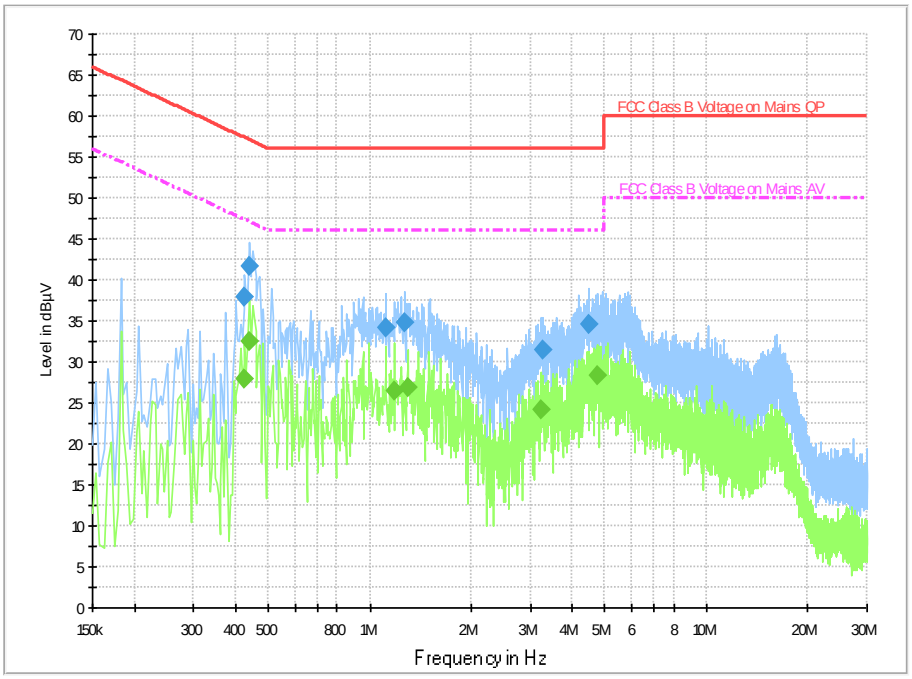

Fig A.26 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.426000	37.8	2000.0	9.000	On	N	19.9	19.5	57.3	
0.438000	41.6	2000.0	9.000	On	N	19.9	15.5	57.1	
1.118000	34.1	2000.0	9.000	On	L1	19.9	21.9	56.0	
1.270000	34.8	2000.0	9.000	On	L1	19.9	21.2	56.0	
3.250000	31.6	2000.0	9.000	On	L1	19.8	24.4	56.0	
4.458000	34.6	2000.0	9.000	On	L1	19.8	21.4	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.426000	28.0	2000.0	9.000	On	N	19.9	19.3	47.3	
0.438000	32.5	2000.0	9.000	On	N	19.9	14.6	47.1	
1.186000	26.5	2000.0	9.000	On	L1	19.9	19.5	46.0	
1.302000	26.8	2000.0	9.000	On	L1	19.9	19.2	46.0	
3.214000	24.2	2000.0	9.000	On	L1	19.8	21.8	46.0	
4.762000	28.3	2000.0	9.000	On	L1	19.8	17.7	46.0	

Charging Mode, Set.3(Adapter3+Cable2+MP4 player from SD Card):

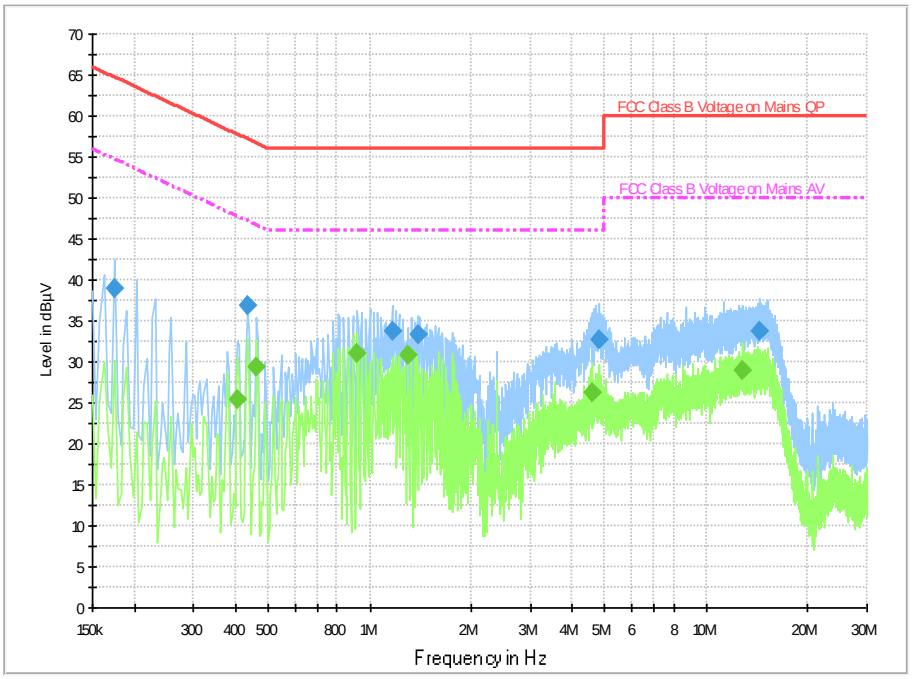

Fig A.27 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.174000	39.0	2000.0	9.000	On	N	19.8	25.8	64.8	
0.434000	36.8	2000.0	9.000	On	N	19.9	20.4	57.2	
1.166000	33.8	2000.0	9.000	On	N	19.7	22.2	56.0	
1.386000	33.3	2000.0	9.000	On	N	19.7	22.7	56.0	
4.814000	32.7	2000.0	9.000	On	N	19.6	23.3	56.0	
14.366000	33.7	2000.0	9.000	On	L1	20.0	26.3	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.406000	25.4	2000.0	9.000	On	N	19.9	22.3	47.7	
0.462000	29.4	2000.0	9.000	On	N	19.9	17.3	46.7	
0.918000	31.0	2000.0	9.000	On	N	19.7	15.0	46.0	
1.298000	30.9	2000.0	9.000	On	N	19.7	15.1	46.0	
4.558000	26.3	2000.0	9.000	On	N	19.6	19.7	46.0	
12.774000	28.9	2000.0	9.000	On	L1	20.0	21.1	50.0	

Charging Mode, Set.4(Adapter1+Cable2+earphone FM Rx):

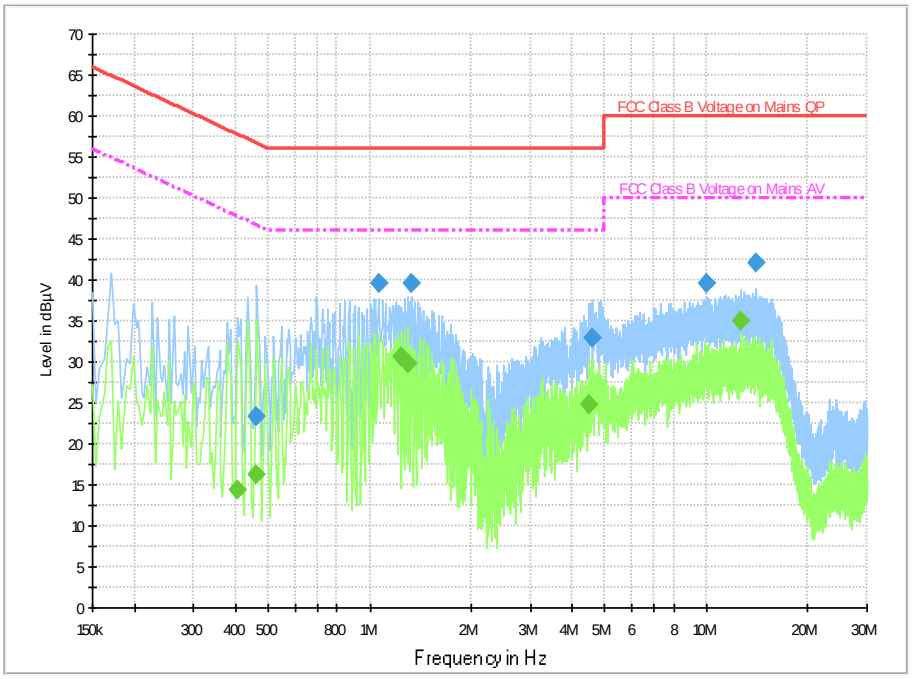

Fig A.28 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.462000	23.3	2000.0	9.000	On	N	19.9	33.3	56.7	
1.062000	39.7	2000.0	9.000	On	L1	19.9	16.3	56.0	
1.330000	39.7	2000.0	9.000	On	N	19.7	16.3	56.0	
4.582000	33.0	2000.0	9.000	On	N	19.6	23.0	56.0	
9.994000	39.5	2000.0	9.000	On	L1	19.9	20.5	60.0	
14.046000	42.0	2000.0	9.000	On	L1	20.0	18.0	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.406000	14.3	2000.0	9.000	On	N	19.9	33.5	47.7	
0.462000	16.3	2000.0	9.000	On	N	19.9	30.3	46.7	
1.246000	30.7	2000.0	9.000	On	N	19.7	15.3	46.0	
1.302000	29.7	2000.0	9.000	On	N	19.7	16.3	46.0	
4.498000	24.8	2000.0	9.000	On	N	19.6	21.2	46.0	
12.594000	34.9	2000.0	9.000	On	L1	20.0	15.1	50.0	

USB Mode, Set.5(Copy data from EUT to PC with Cable2):

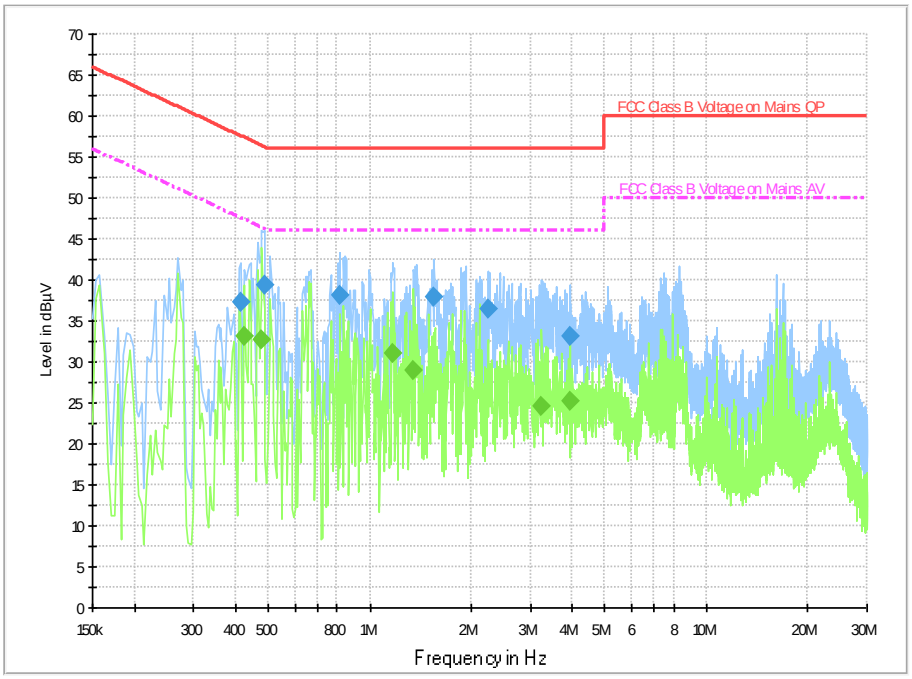

Fig A.29 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.414000	37.3	2000.0	9.000	On	L1	20.0	20.3	57.6	
0.486000	39.5	2000.0	9.000	On	L1	20.0	16.8	56.2	
0.814000	38.1	2000.0	9.000	On	N	19.8	17.9	56.0	
1.550000	37.8	2000.0	9.000	On	N	19.7	18.2	56.0	
2.246000	36.4	2000.0	9.000	On	L1	19.8	19.6	56.0	
3.942000	33.2	2000.0	9.000	On	N	19.6	22.8	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.422000	33.1	2000.0	9.000	On	L1	20.0	14.3	47.4	
0.478000	32.7	2000.0	9.000	On	L1	20.0	13.7	46.4	
1.166000	31.1	2000.0	9.000	On	L1	19.9	14.9	46.0	
1.350000	29.0	2000.0	9.000	On	N	19.7	17.0	46.0	
3.246000	24.6	2000.0	9.000	On	N	19.6	21.4	46.0	
3.942000	25.2	2000.0	9.000	On	N	19.6	20.8	46.0	

USB Mode, Set.6(Copy data from PC to EUT with Cable2):

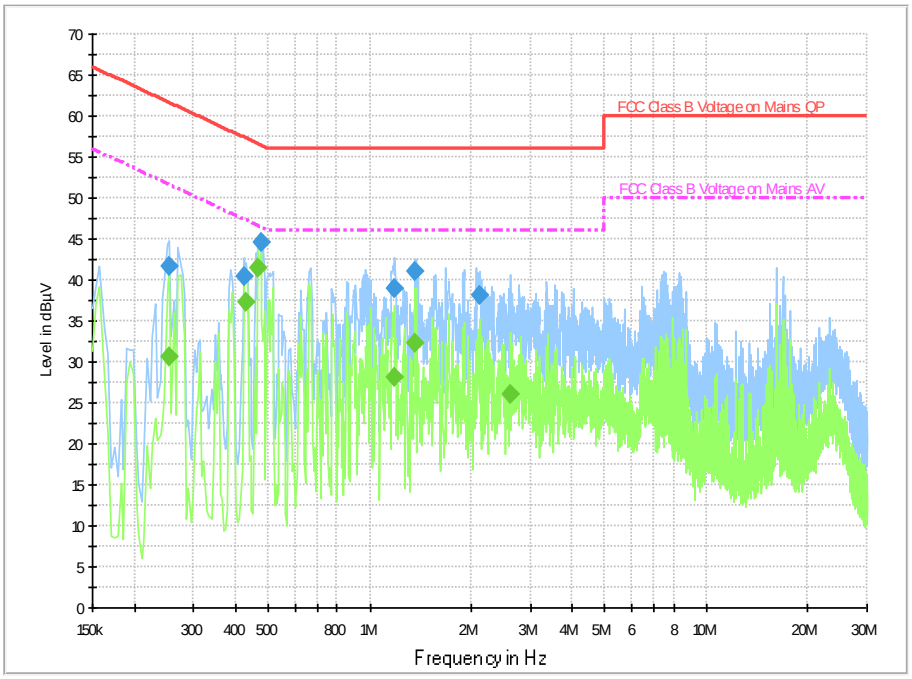

Fig A.30 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.254000	41.7	2000.0	9.000	On	N	19.8	19.9	61.6	
0.422000	40.5	2000.0	9.000	On	L1	20.0	16.9	57.4	
0.474000	44.7	2000.0	9.000	On	L1	20.0	11.8	56.4	
1.186000	39.0	2000.0	9.000	On	L1	19.9	17.0	56.0	
1.358000	41.1	2000.0	9.000	On	L1	19.9	14.9	56.0	
2.130000	38.2	2000.0	9.000	On	L1	19.8	17.8	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.254000	30.6	2000.0	9.000	On	N	19.8	21.0	51.6	
0.430000	37.3	2000.0	9.000	On	L1	20.0	10.0	47.3	
0.466000	41.4	2000.0	9.000	On	N	19.9	5.2	46.6	
1.186000	28.1	2000.0	9.000	On	L1	19.9	17.9	46.0	
1.358000	32.4	2000.0	9.000	On	L1	19.9	13.6	46.0	
2.622000	26.0	2000.0	9.000	On	L1	19.8	20.0	46.0	

USB Mode, Set.7(Copy data from SD Card to PC with Cable 3):

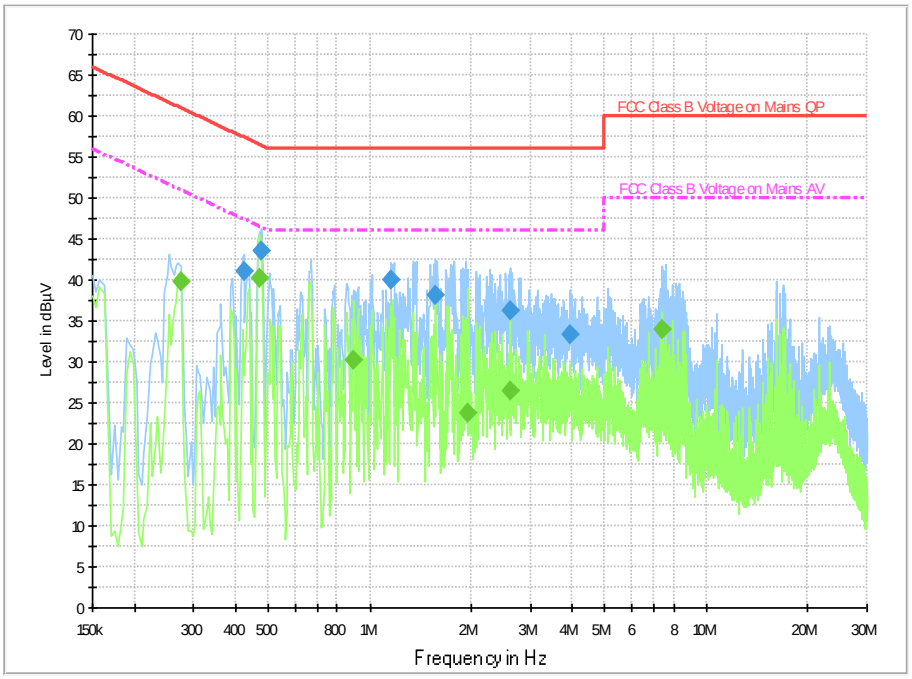

Fig A.31 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.422000	41.0	2000.0	9.000	On	L1	20.0	16.4	57.4	
0.478000	43.5	2000.0	9.000	On	L1	20.0	12.9	56.4	
1.158000	40.1	2000.0	9.000	On	L1	19.9	15.9	56.0	
1.574000	38.0	2000.0	9.000	On	N	19.7	18.0	56.0	
2.602000	36.3	2000.0	9.000	On	N	19.6	19.7	56.0	
3.954000	33.4	2000.0	9.000	On	N	19.6	22.6	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.274000	39.8	2000.0	9.000	On	L1	19.9	11.2	51.0	
0.470000	40.2	2000.0	9.000	On	L1	20.0	6.3	46.5	
0.898000	30.2	2000.0	9.000	On	L1	19.9	15.8	46.0	
1.966000	23.7	2000.0	9.000	On	N	19.6	22.3	46.0	
2.602000	26.5	2000.0	9.000	On	N	19.6	19.5	46.0	
7.374000	33.9	2000.0	9.000	On	N	19.7	16.1	50.0	

USB Mode, Set.8(Copy data from PC to SD Card with Cable 3):

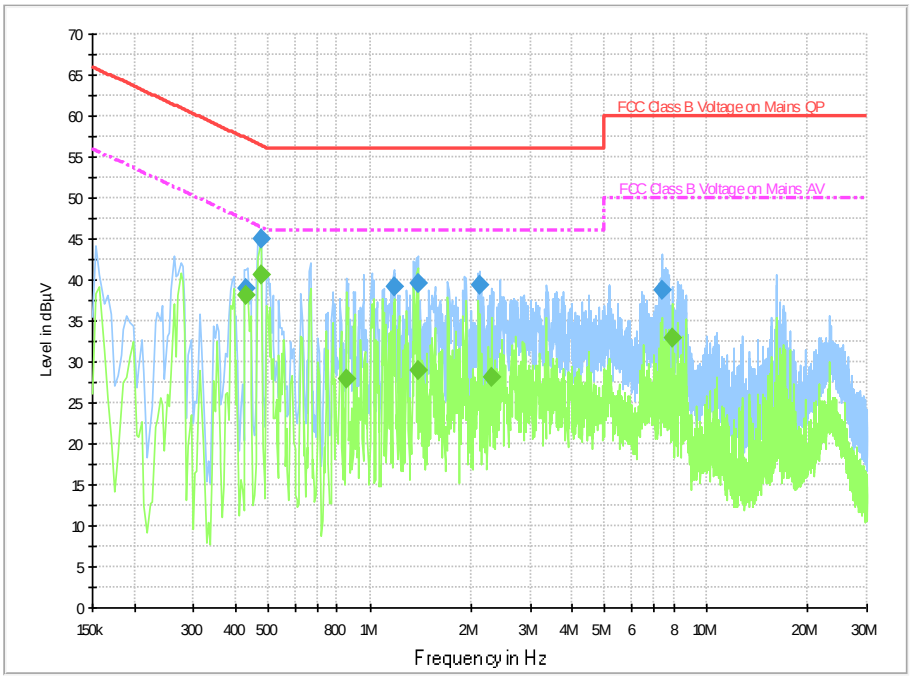

Fig A.32 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.430000	39.0	2000.0	9.000	On	N	19.9	18.2	57.3	
0.474000	45.1	2000.0	9.000	On	N	19.9	11.4	56.4	
1.178000	39.1	2000.0	9.000	On	L1	19.9	16.9	56.0	
1.386000	39.6	2000.0	9.000	On	L1	19.9	16.4	56.0	
2.126000	39.3	2000.0	9.000	On	L1	19.8	16.7	56.0	
7.374000	38.8	2000.0	9.000	On	N	19.7	21.2	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.430000	38.2	2000.0	9.000	On	L1	20.0	9.1	47.3	
0.474000	40.7	2000.0	9.000	On	L1	20.0	5.8	46.4	
0.850000	28.0	2000.0	9.000	On	N	19.8	18.0	46.0	
1.386000	29.0	2000.0	9.000	On	L1	19.9	17.0	46.0	
2.302000	28.1	2000.0	9.000	On	N	19.6	17.9	46.0	
7.926000	33.0	2000.0	9.000	On	L1	19.9	17.0	50.0	

USB Mode, Set.9 (PC play video from SD Card with Cable 1):

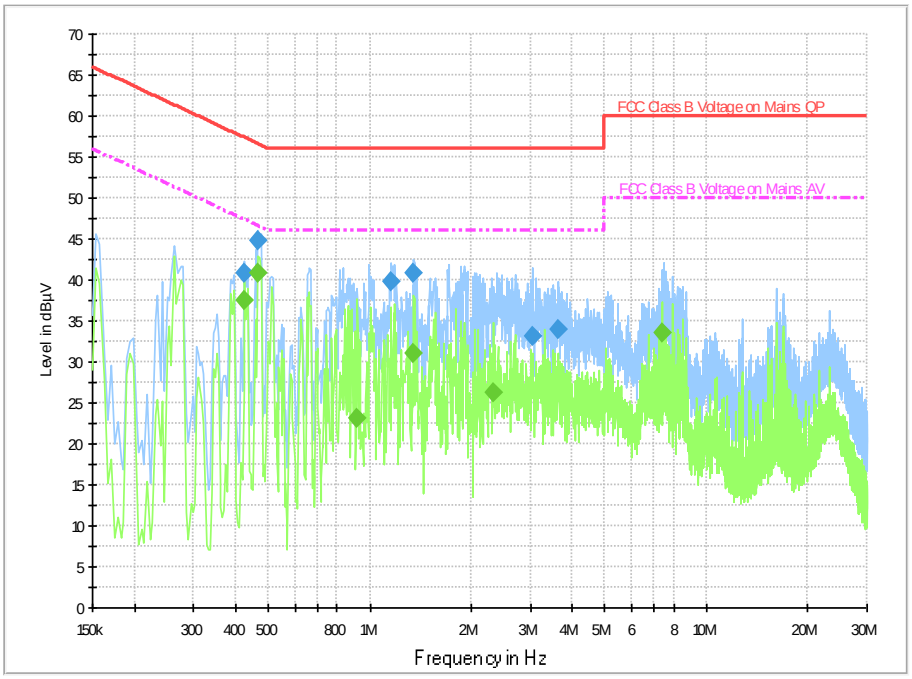

Fig A.33 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.426000	40.9	2000.0	9.000	On	L1	20.0	16.4	57.3	
0.466000	44.7	2000.0	9.000	On	N	19.9	11.9	56.6	
1.162000	39.9	2000.0	9.000	On	L1	19.9	16.1	56.0	
1.350000	40.8	2000.0	9.000	On	L1	19.9	15.2	56.0	
3.058000	33.2	2000.0	9.000	On	N	19.6	22.8	56.0	
3.614000	34.0	2000.0	9.000	On	N	19.6	22.0	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.426000	37.6	2000.0	9.000	On	L1	20.0	9.8	47.3	
0.466000	40.8	2000.0	9.000	On	N	19.9	5.8	46.6	
0.918000	23.1	2000.0	9.000	On	L1	19.9	22.9	46.0	
1.350000	31.0	2000.0	9.000	On	L1	19.9	15.0	46.0	
2.322000	26.3	2000.0	9.000	On	N	19.6	19.7	46.0	
7.374000	33.6	2000.0	9.000	On	N	19.7	16.4	50.0	

USB Mode, Set.10 (PC play video from EUT with Cable 1):

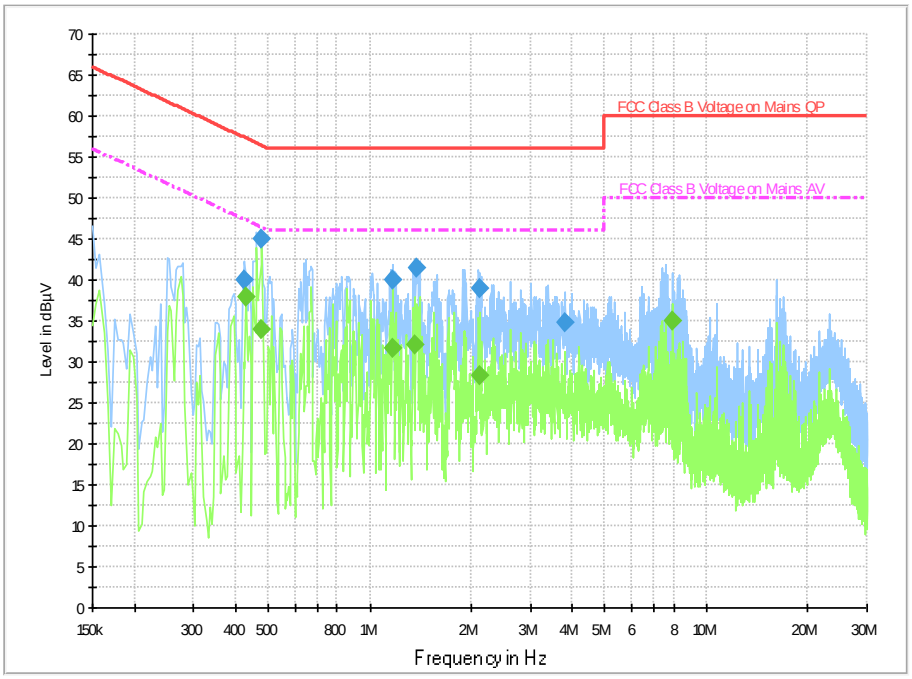

Fig A.34 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.422000	40.0	2000.0	9.000	On	L1	20.0	17.4	57.4	
0.474000	45.0	2000.0	9.000	On	N	19.9	11.4	56.4	
1.170000	40.0	2000.0	9.000	On	L1	19.9	16.0	56.0	
1.374000	41.4	2000.0	9.000	On	L1	19.9	14.6	56.0	
2.122000	39.0	2000.0	9.000	On	L1	19.8	17.0	56.0	
3.782000	34.8	2000.0	9.000	On	N	19.6	21.2	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.430000	37.9	2000.0	9.000	On	L1	20.0	9.4	47.3	
0.478000	33.9	2000.0	9.000	On	N	19.9	12.4	46.4	
1.170000	31.6	2000.0	9.000	On	L1	19.9	14.4	46.0	
1.358000	32.1	2000.0	9.000	On	L1	19.9	13.9	46.0	
2.122000	28.3	2000.0	9.000	On	L1	19.8	17.7	46.0	
7.922000	35.0	2000.0	9.000	On	L1	19.9	15.0	50.0	

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