



TEST REPORT

No.24T04Z101426-001

for

TCL Communication Ltd.

GSM/UMTS/LTE/NR Mobile phone

T613P

FCC ID: 2ACCJH182

with

Hardware Version: 05

Software Version: 6FSE

Issued Date: 2024-06-27

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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Ver.3.3.22



No.23T04Z80846-02

REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z101426-001	Rev.0	1st edition	2024-06-27

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

CONTENTS

1. TEST LABORATORY	4
1.1. INTRODUCTION & ACCREDITATION	4
1.2. TESTING LOCATION	4
1.3. TESTING ENVIRONMENT	4
1.4. PROJECT DATA	4
1.5. SIGNATURE	4
2. CLIENT INFORMATION	5
2.1. APPLICANT INFORMATION	5
2.2. MANUFACTURER INFORMATION	5
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	6
3.1. ABOUT EUT	6
3.2. INTERNAL IDENTIFICATION OF EUT	6
3.3. INTERNAL IDENTIFICATION OF AE	6
3.4. EUT SET-UPS	6
4. REFERENCE DOCUMENTS	7
4.1. DOCUMENTS SUPPLIED BY APPLICANT	7
4.2. REFERENCE DOCUMENTS FOR TESTING	7
5. TEST RESULTS	8
6. TEST FACILITIES UTILIZED	9
7. MEASUREMENT UNCERTAINTY	10
ANNEX A: EUT PARAMETERS	11
ANNEX B: DETAILED TEST RESULTS	12
ANNEX C: PERSONS INVOLVED IN THIS TESTING	31

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

Location 1: CTTL(Huayuan North Road)

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

1.3. Testing Environment

Normal Temperature: 15-35°C

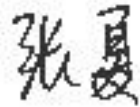
Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2024-01-10

Testing End Date: 2024-06-26

1.5. Signature



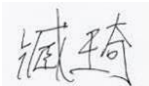
Zhang Xia

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(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
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Park, Shatin, NT, Hong Kong
Contact: Ting Wang
Telephone: 0086-752-2639091
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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
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Park, Shatin, NT, Hong Kong
Contact: Ting Wang
Telephone: 0086-752-2639091
Email: Ting.wang.hz@tcl.com

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

3.1. About EUT

Description	GSM/UMTS/LTE/NR Mobile phone
Model Name	T613P

Note: The EUT functions are described in Annex A of this test report. Specifications of the EUT were provided to fulfil the test. Samples undergoing test were selected by the client. 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

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
EUT1	356497200002002	05	6FSE	2024-01-08
EUT2	356497200001541	05	6FSE	2024-01-08
EUT3	356497200201893	05	6FSE	2024-06-19

*EUT ID: is used to identify the test sample in the lab internally. The HW and SW version information were provided by the applicant.

3.3. Internal Identification of AE

AE ID*	Description	Model	Manufacturer	Note
AE1	Charger	805A-018A-1A	Shenzhen Baijunda Electronic Co., Ltd.	---
AE2	Charger	HJ-FC001K7-US	Shenzhen Huajin Electronic Co., Ltd.	---
AE3	USB Cable	FKY-23-395	FKY	---
AE4	USB Cable	HX-KS-11	WASHIN	---
AE5	Headset	HF-B0469A10	SKD	---
AE6	Charger	UT-681A-5200MY	Shenzhen Baijunda Electronic Co., Ltd.	---

*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 + AE3+AE5	Charger AE1 with AE3 cable and Headset
Set.2	EUT1 + AE2 + AE4	Charger AE2 with AE4 cable
Set.3	EUT1 + AE3 + PC	AE3 cable connected to PC
Set.4	EUT1 + AE4 + PC+AE5	AE4 cable connected to PC, Headset
Set.5	EUT1 + EUT2 +AE5	USB OTG charging
Set.6	EUT3 + AE6	Charger AE6

4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters, referring to Annex A for detailed information, were supplied by the client or manufacturer, which is the basis of testing. CAICT is not responsible for the accuracy of customer supplied technical information that may affect the test results (for example, antenna gain and loss of customer supplied cable).

4.2. 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	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.

5. Test Results

Abbreviations used in this clause:		
Verdict Column	P	Pass
	F	Fail
	BR	Re-use test data from basic model report.
	NA	Not applicable
	NM	Not measured

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)

Note: the test results of Set.1 to Set.5 were from report 23T04Z80846-002. According to the declaration from applicant, no test was repeated on these Sets.

6. Test Facilities Utilized

Test instruments list:

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	LISN	ENV216	101200	R&S	1 year	2025-06-16
2	Test Receiver	ESCI	100344	R&S	1 year	2025-05-21
3	Universal Radio Communication Tester	CMW500	163975	R&S	1 year	2024-02-03
4	Test Receiver	ESW44	103144	R&S	1 year	2024-07-08
5	BiLog Antenna	VULB9163	01223	Schwarzbeck	1 year	2024-08-18
6	EMI Antenna	3115	0016725	ETS-Lindgren	1 year	2025-05-11
7	PC With mouse and keyboard	M4000e-17	M706GWXD	Lenovo	N/A	N/A
8	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
9	Test Receiver	ESW44	103023	R&S	1 year	2024-07-08

Note: the No.3 equipment was in calibration due date when used for testing.

Test software list:

Test Item	Test Software	Software Vendor
Radiated Emission	EMC32	R&S
Conducted Emission	EMC32	R&S

Semi-anechoic chamber utilized did not exceed following limits along the 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 18GHz

Shielded room utilized did not exceed following limits along the 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

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	5.15dB($k=2$)
	1GHz-18GHz	5.54dB($k=2$)
Conducted Emission	150kHz-30MHz	AC Power Line: 3.08dB($k=2$)

ANNEX A: EUT parameters

Cellular Bands operate between 30MHz-960MHz	☒ GSM	Band 850
	☒ WCDMA	Band V
	☒ LTE	Band 5/12/13/17/26
	☒ 5G NR SA	Band 5/26/71
Other FCC Part 15B related features	☒ FM ☒ MP3 ☒ Video ☒ Camera ☒ USB data/charging/OTG	

ANNEX B: Detailed Test Results

B.1. Radiated Emission

Reference: FCC Part 15.109(a).

Method of measurement: The field strength of radiated emissions from the unintentional radiator at distances of 10 meters (for 30MHz-1GHz) and 3 meters (for above 1GHz) were tested. The test was 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 the specified distance from the EUT. During the test, 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.

EUT operating mode: The EUT was operating in the USB data and/or charging mode. During the test, the EUT was 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 Annex A, were investigated. Only the worst case emissions are reported. All equipment was 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.

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. The limits for 10 meters distance is got by converting: $\text{Limit}(10\text{m}) = \text{Limit}(3\text{m}) + 20[\log(3/10)]$, which is according to FCC 15.109(g)(2)

Test settings:

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

Measurement results:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss". It includes the antenna factor of receive antenna and the path loss.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{\text{Rpl}} = P_{\text{Mea}} + G_A + G_{\text{PL}}$$

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Note: The measurement results showed as followed are worst cases, and the combinations of different batteries, cables and headsets were considered if applicable.

EUT1 Charger and Camera mode, Set.1

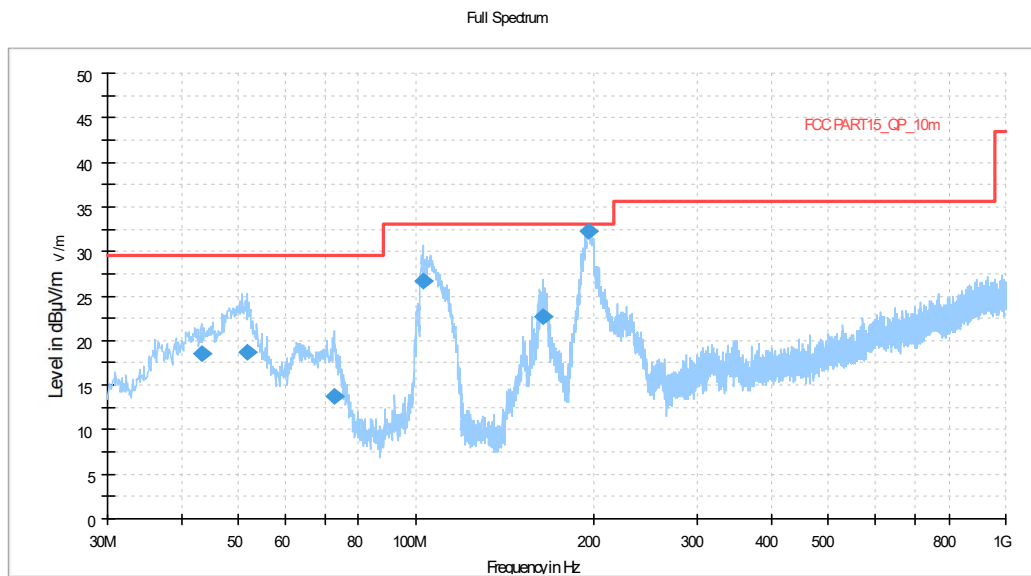


Figure B.1 Radiated Emission from 30MHz to 1GHz

QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
43.289000	18.47	29.54	11.07	120.000	123.0	V	-7.0	-11.1
51.728000	18.64	29.54	10.90	120.000	100.0	V	135.0	-10.8
72.874000	13.78	29.54	15.76	120.000	176.0	V	283.0	-16.2
102.653000	26.64	33.06	6.42	120.000	100.0	V	137.0	-12.1
164.151000	22.71	33.06	10.35	120.000	100.0	V	65.0	-14.7
196.549000	32.26	33.06	0.80	120.000	100.0	V	45.0	-11.4

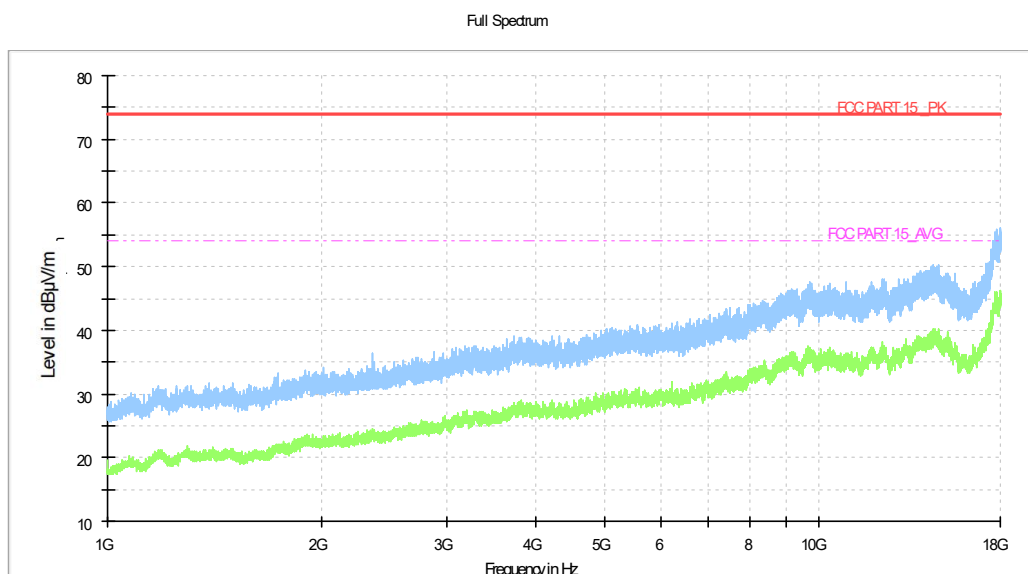


Figure B.2 Radiated Emission from 1GHz to 18GHz

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)
17975.520	46.3	-29.1	46.7	28.701	54	7.7	H
17994.220	46.2	-29.1	46.7	28.598	54	7.8	V
17760.640	46.0	-29.6	46.0	29.672	54	8.0	V
17966.000	45.9	-29.1	46.7	28.301	54	8.1	H
17989.120	45.8	-29.1	46.7	28.198	54	8.2	H
17990.820	45.8	-29.1	46.7	28.198	54	8.2	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)
17997.960	56.0	-29.1	46.7	38.398	74	18.0	V
17973.480	55.9	-29.1	46.7	38.301	74	18.1	H
17765.740	55.9	-29.6	46.0	39.572	74	18.1	V
17979.600	55.6	-29.1	46.7	38.001	74	18.4	H
17748.400	55.6	-29.6	46.0	39.256	74	18.4	H
17975.860	55.5	-29.1	46.7	37.901	74	18.5	V

EUT1 Charger and GSM 850MHz idle mode, Set.2

Full Spectrum

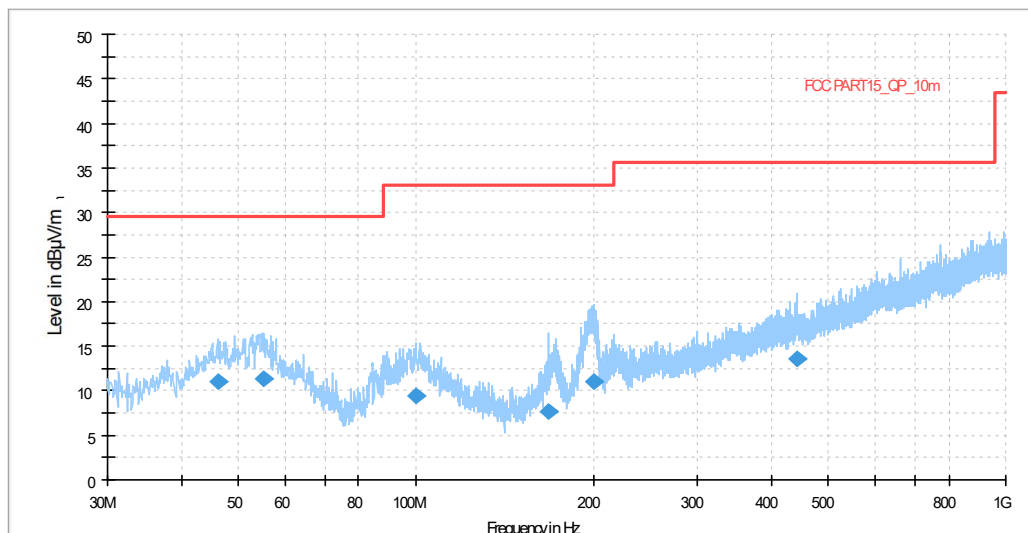


Figure B.3 Radiated Emission from 30MHz to 1GHz

QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
46.102000	11.07	29.54	18.47	120.000	100.0	V	47.0	-10.6
55.317000	11.41	29.54	18.13	120.000	187.0	V	65.0	-11.0
99.937000	9.41	33.06	23.65	120.000	325.0	V	135.0	-12.2
167.837000	7.64	33.06	25.42	120.000	113.0	V	65.0	-14.5
200.623000	11.08	33.06	21.98	120.000	100.0	V	45.0	-12.0
441.280000	13.59	35.56	21.97	120.000	276.0	H	137.0	-4.6

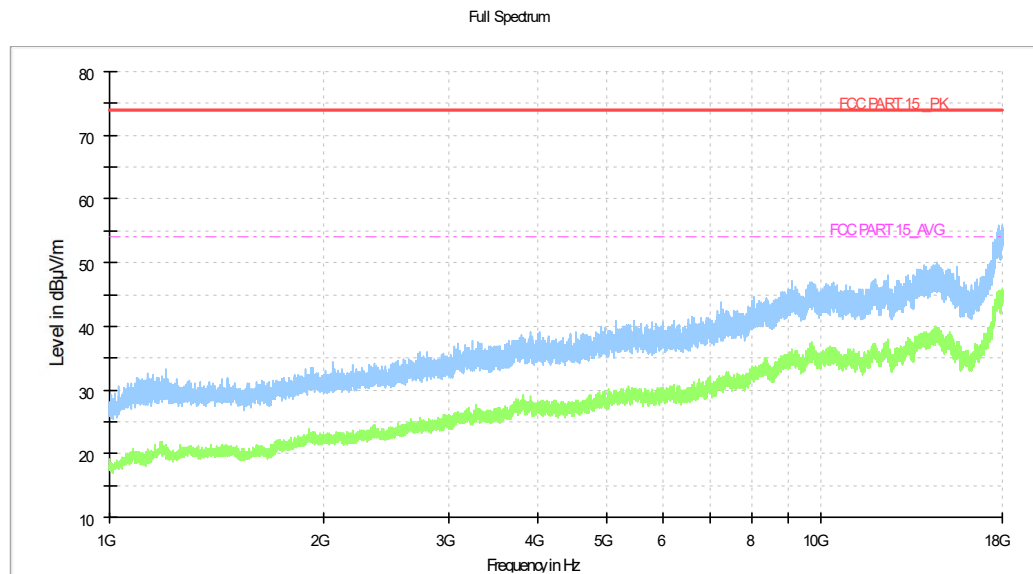


Figure B.4 Radiated Emission from 1GHz to 18GHz

Average detector

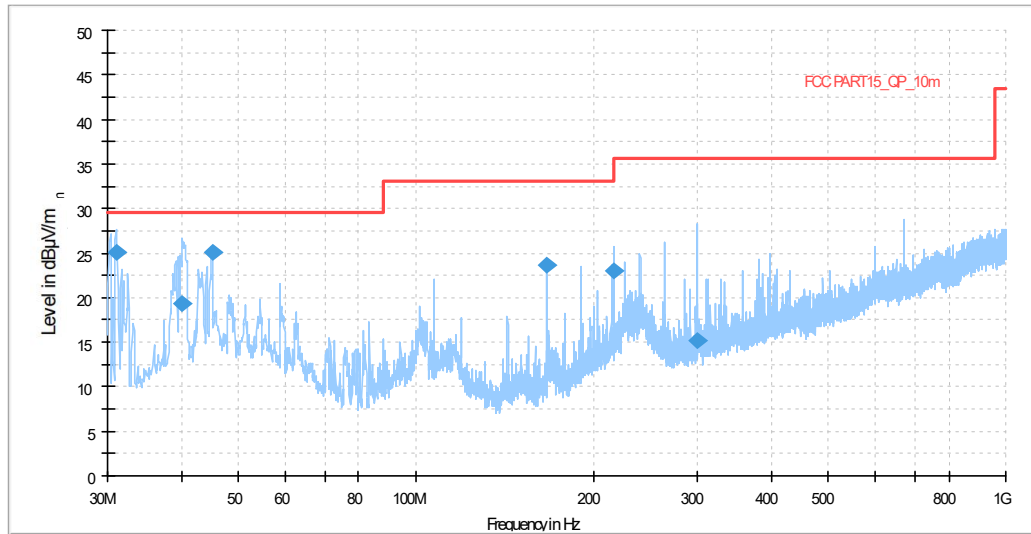
Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17967.020	45.7	-29.1	46.7	28.101	54	8.3	V
17755.540	45.5	-29.6	46.0	29.156	54	8.5	H
17774.240	45.4	-29.6	46.0	29.072	54	8.6	H
17973.480	45.4	-29.1	46.7	27.801	54	8.6	H
17995.240	45.3	-29.1	46.7	27.698	54	8.7	V
17756.560	45.3	-29.6	46.0	28.956	54	8.7	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)
17754.860	55.9	-29.6	46.0	39.556	74	18.1	V
17984.020	55.8	-29.1	46.7	38.198	74	18.2	H
17977.560	55.7	-29.1	46.7	38.101	74	18.3	V
17983.340	55.5	-29.1	46.7	37.898	74	18.5	H
17758.260	55.5	-29.6	46.0	39.156	74	18.5	H
17985.040	55.5	-29.1	46.7	37.898	74	18.5	V

EUT1 USB connected to PC and MP3 mode, Set.3

Full Spectrum


Figure B.5 Radiated Emission from 30MHz to 1GHz
QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
31.067000	25.01	29.54	4.53	120.000	175.0	V	225.0	-15.3
40.185000	19.37	29.54	10.17	120.000	175.0	V	245.0	-11.9
45.132000	25.16	29.54	4.38	120.000	100.0	V	47.0	-10.9
166.770000	23.67	33.06	9.39	120.000	325.0	H	65.0	-14.6
215.949000	22.96	33.06	10.10	120.000	323.0	V	174.0	-11.9
299.854000	15.25	35.56	20.31	120.000	286.0	H	-7.0	-8.8

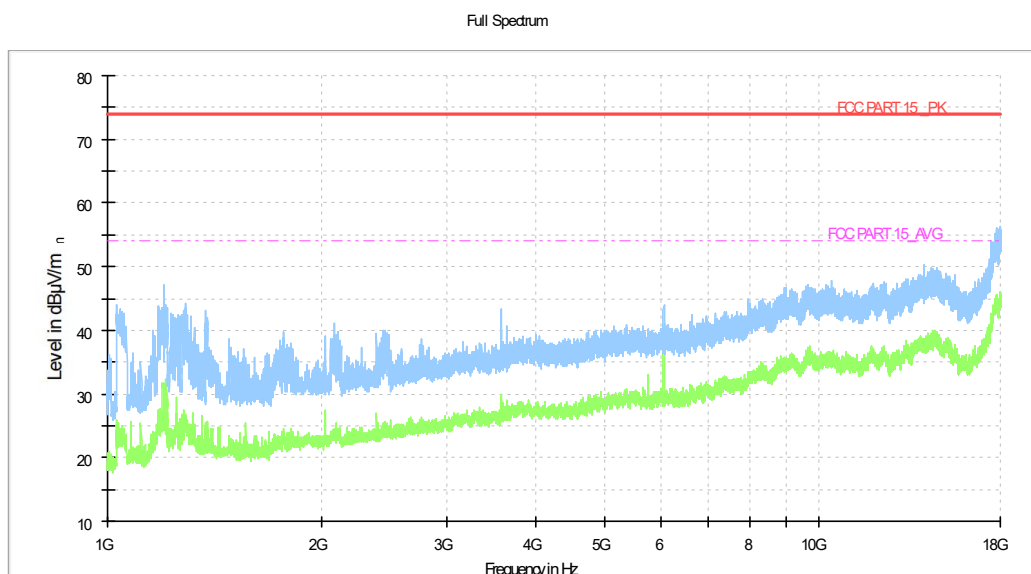


Figure B.6 Radiated Emission from 1GHz to 18GHz

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)
17974.840	46.0	-29.1	46.7	28.401	54	8.0	V
17969.060	45.7	-29.1	46.7	28.101	54	8.3	V
17955.460	45.5	-28.9	46.7	27.783	54	8.5	H
17746.020	45.5	-29.6	46.0	29.156	54	8.5	H
17781.040	45.4	-29.9	46.0	29.332	54	8.6	V
17971.440	45.2	-29.1	46.7	27.601	54	8.8	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)
17971.440	56.2	-29.1	46.7	38.601	74	17.8	H
17765.740	56.1	-29.6	46.0	39.772	74	17.9	V
17979.600	55.9	-29.1	46.7	38.301	74	18.1	V
17780.700	55.9	-29.9	46.0	39.832	74	18.1	H
17859.920	55.8	-29.3	46.0	39.182	74	18.2	V
17960.560	55.8	-29.1	46.7	38.201	74	18.2	V

EUT1 USB connected to PC and Video mode, Set.4

Full Spectrum

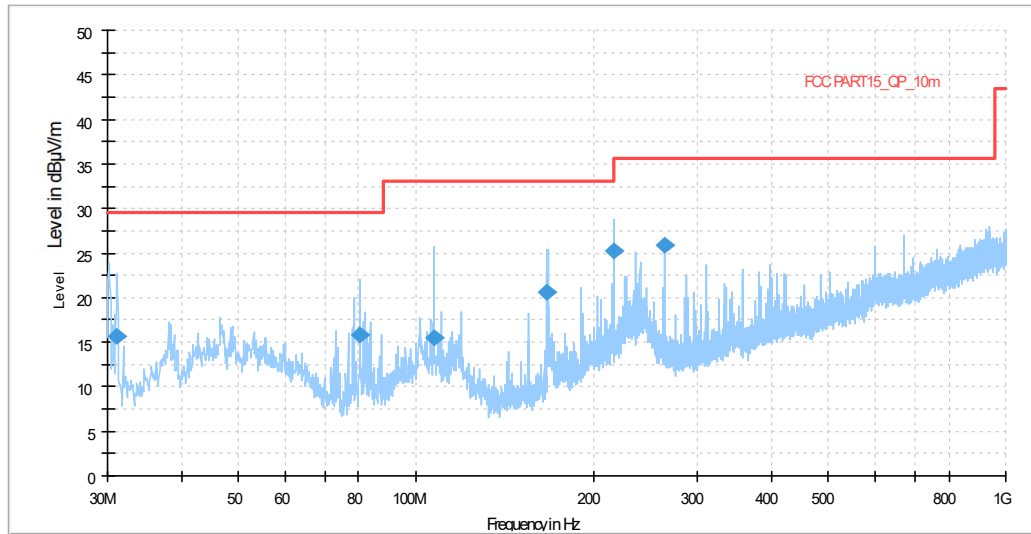


Figure B.7 Radiated Emission from 30MHz to 1GHz

QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
31.164000	15.65	29.54	13.89	120.000	100.0	V	-25.0	-15.2
80.246000	15.81	29.54	13.73	120.000	176.0	V	155.0	-17.6
107.503000	15.45	33.06	17.61	120.000	100.0	V	45.0	-12.4
167.158000	20.61	33.06	12.45	120.000	325.0	H	65.0	-14.6
215.949000	25.22	33.06	7.84	120.000	225.0	V	174.0	-11.9
263.964000	25.85	35.56	9.71	120.000	100.0	V	122.0	-9.8

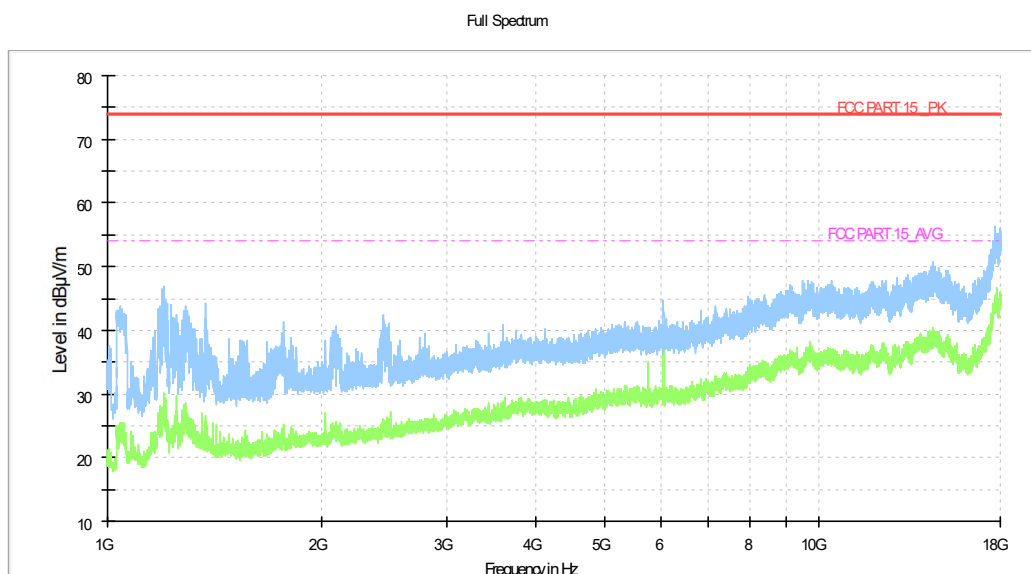


Figure B.8 Radiated Emission from 1GHz to 18GHz

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)
17759.620	46.7	-29.6	46.0	30.356	54	7.3	H
17980.280	45.9	-29.1	46.7	28.298	54	8.1	H
17773.220	45.8	-29.6	46.0	29.472	54	8.2	V
17973.140	45.7	-29.1	46.7	28.101	54	8.3	H
17769.820	45.7	-29.6	46.0	29.372	54	8.3	H
17969.400	45.6	-29.1	46.7	28.001	54	8.4	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)
17735.820	56.3	-29.7	45.2	40.721	74	17.7	H
17959.200	56.2	-28.9	46.7	38.483	74	17.8	H
17988.780	55.7	-29.1	46.7	38.098	74	18.3	V
17991.500	55.6	-29.1	46.7	37.998	74	18.4	V
17728.680	55.4	-29.7	45.2	39.821	74	18.6	V
17733.100	55.2	-29.7	45.2	39.621	74	18.8	H

EUT1+EUT2 USB OTG charging mode, Set.5

Full Spectrum

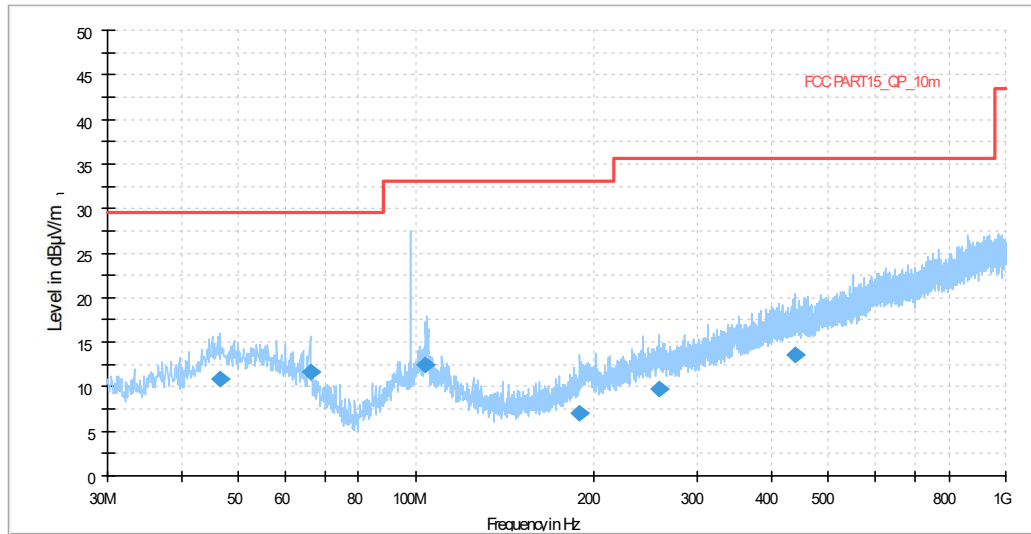


Figure B.9 Radiated Emission from 30MHz to 1GHz

QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
46.490000	10.83	29.54	18.71	120.000	325.0	V	103.0	-10.6
66.181000	11.68	29.54	17.86	120.000	325.0	H	174.0	-13.8
103.720000	12.51	33.06	20.55	120.000	175.0	V	-44.0	-12.1
189.856000	7.04	33.06	26.02	120.000	225.0	H	173.0	-12.6
258.435000	9.67	35.56	25.89	120.000	125.0	V	302.0	-9.5
440.795000	13.64	35.56	21.92	120.000	187.0	V	283.0	-4.6

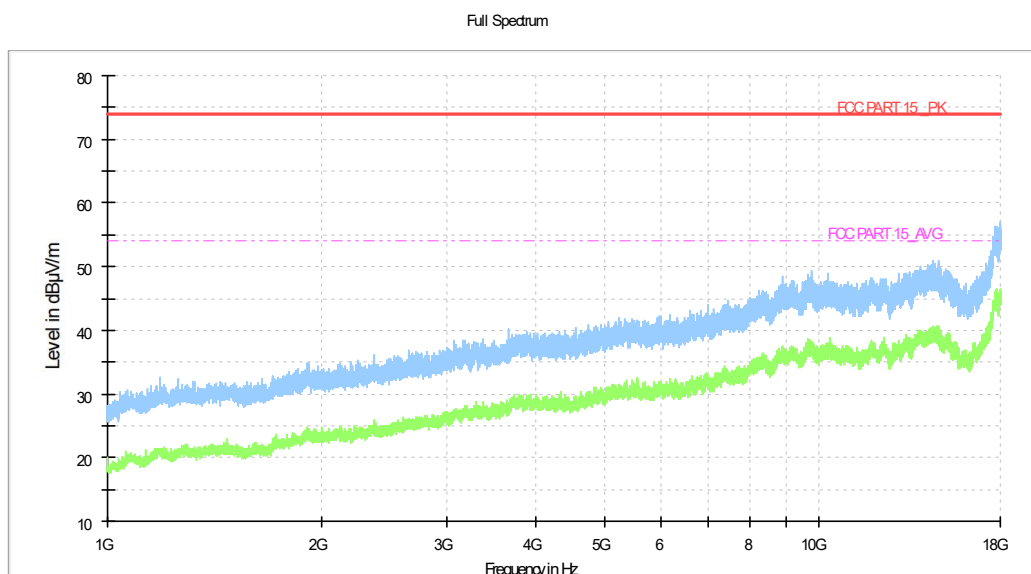


Figure B.10 Radiated Emission from 1GHz to 18GHz

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)
17763.360	46.4	-29.6	46.0	30.072	54	7.6	V
17993.880	46.0	-29.1	46.7	28.398	54	8.0	H
17999.660	46.0	-29.1	46.7	28.398	54	8.0	H
17718.820	45.9	-29.7	45.2	30.387	54	8.1	V
17962.600	45.9	-29.1	46.7	28.301	54	8.1	H
17747.720	45.8	-29.6	46.0	29.456	54	8.2	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)
17983.680	56.9	-29.1	46.7	39.298	74	17.1	H
17995.920	56.5	-29.1	46.7	38.898	74	17.5	V
17771.180	56.3	-29.6	46.0	39.972	74	17.7	V
17715.420	56.3	-29.7	45.2	40.787	74	17.7	V
17728.000	56.2	-29.7	45.2	40.621	74	17.8	H
17765.740	56.1	-29.6	46.0	39.772	74	17.9	H

EUT3+AE6 Charging and camera mode, Set.6

Full Spectrum

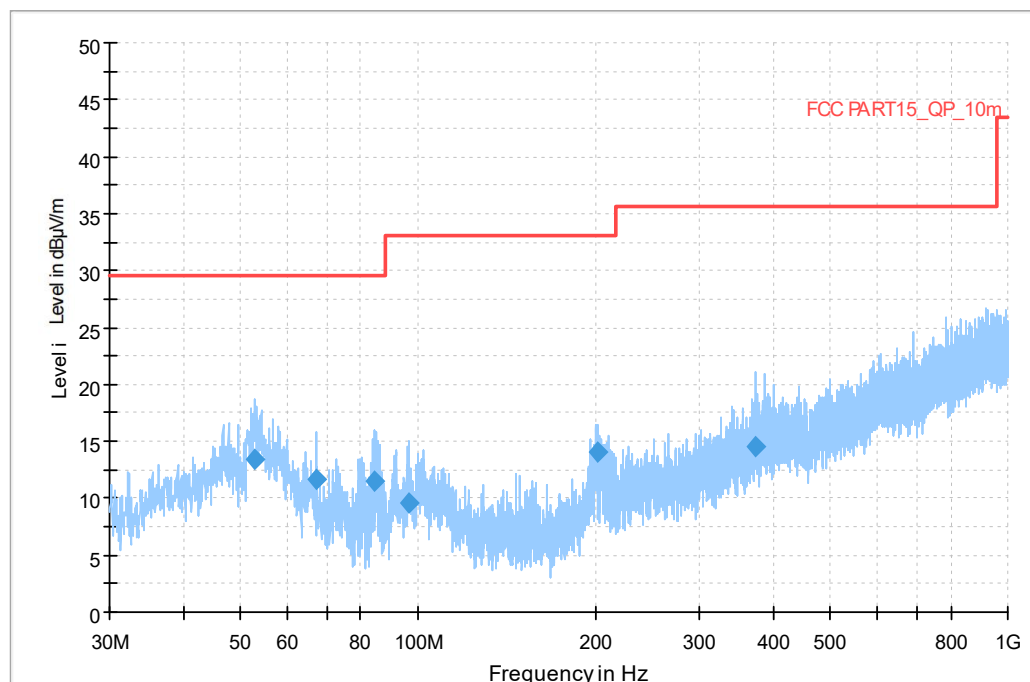


Figure B.11 Radiated Emission from 30MHz to 1GHz

QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
52.892000	13.36	29.54	16.18	120.000	115.0	V	120.0
67.248000	11.64	29.54	17.90	120.000	125.0	V	46.0
84.368500	11.45	29.54	18.09	120.000	125.0	V	287.0
96.784500	9.65	33.06	23.41	120.000	101.0	V	180.0
201.059500	14.04	33.06	19.02	120.000	284.0	V	256.0
374.301500	14.53	35.56	21.03	120.000	109.0	V	100.0

Full Spectrum

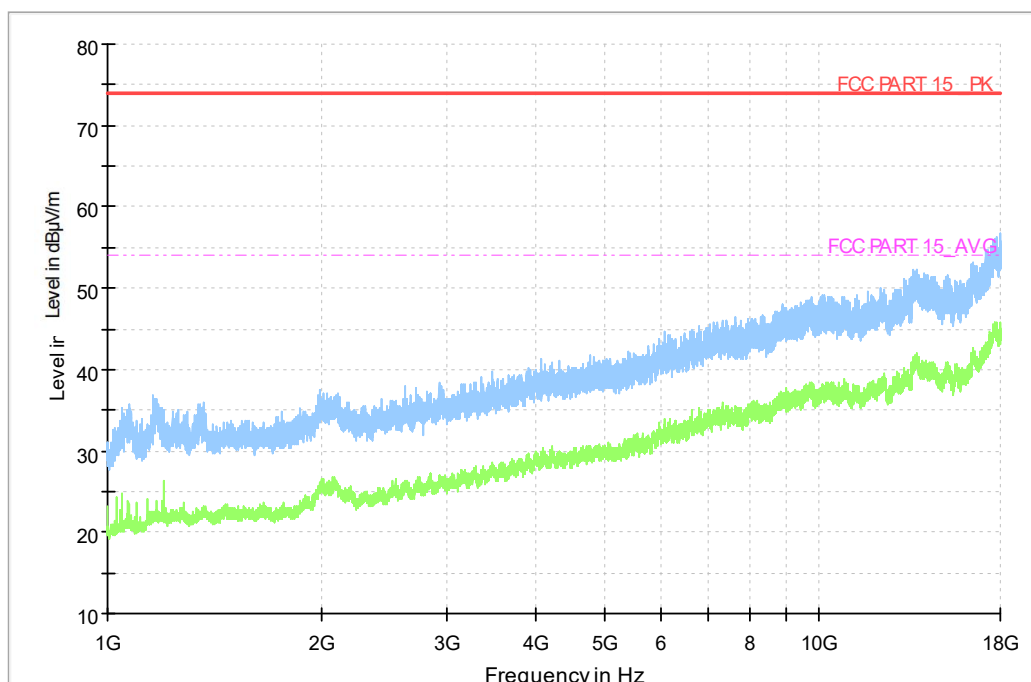


Figure B.12 Radiated Emission from 1GHz to 18GHz

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)
17605.260	45.7	-29.5	45.2	29.972	54.000	8.300	H
17730.380	45.6	-29.7	45.2	30.021	54.000	8.400	H
17666.460	45.5	-29.9	45.2	30.150	54.000	8.500	H
17772.880	45.4	-29.6	46.0	29.072	54.000	8.600	H
17555.960	45.4	-29.5	44.4	30.534	54.000	8.600	H
17702.840	45.4	-29.7	45.2	29.887	54.000	8.600	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)
17957.500	56.6	-28.9	46.7	38.883	74.000	17.400	H
17779.680	56.4	-29.6	46.0	40.072	74.000	17.600	V
17687.200	56.0	-30.0	45.2	40.734	74.000	18.000	V
17639.940	55.9	-29.4	45.2	40.052	74.000	18.100	V
17674.960	55.9	-29.9	45.2	40.550	74.000	18.100	H
17696.380	55.9	-30.0	45.2	40.634	74.000	18.100	V

B.2. Conducted Emission

Reference: FCC: Part 15.107(a).

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.

EUT operating mode: The EUT is operating in the charging mode and USB data mode if applicable.

Measurement limit:

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

Test Settings:

Voltage(V)	Frequency(Hz)
120	60

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

Measurement results:

The measurement results showed as followed are worst cases, and the combinations of different batteries, cables and headsets were considered if applicable.

EUT1 Charger and Camera mode, Set.1

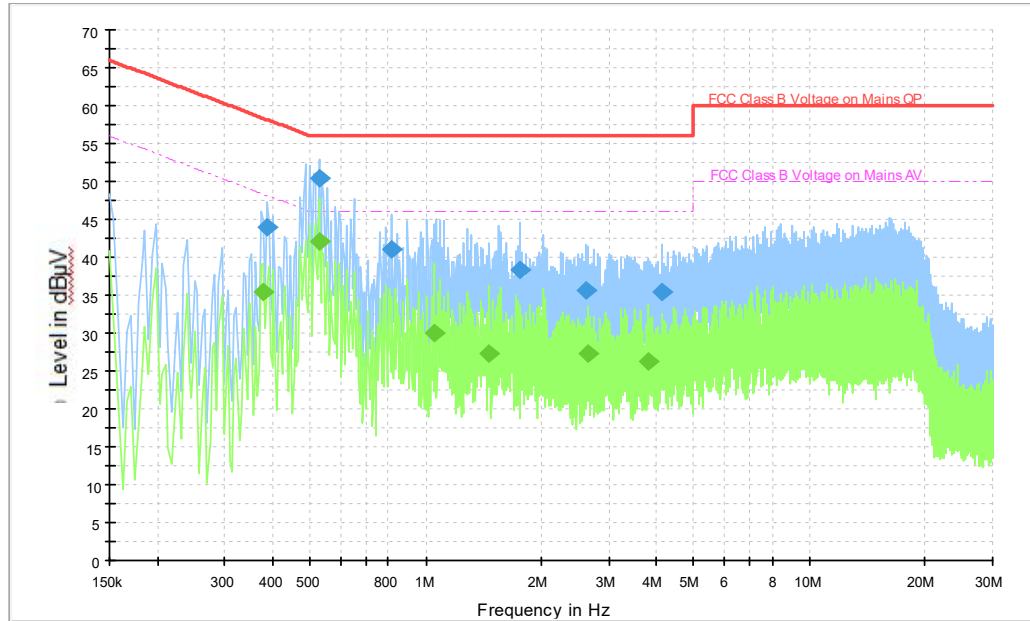


Figure B.13 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.386000	43.9	2000.0	9.000	On	L1	19.7	14.3	58.1
0.526000	50.3	2000.0	9.000	On	L1	19.7	5.7	56.0
0.814000	41.1	2000.0	9.000	On	L1	19.7	14.9	56.0
1.766000	38.2	2000.0	9.000	On	L1	19.6	17.8	56.0
2.610000	35.7	2000.0	9.000	On	L1	19.6	20.3	56.0
4.110000	35.4	2000.0	9.000	On	L1	19.6	20.6	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.378000	35.5	2000.0	9.000	On	L1	19.7	12.8	48.3
0.526000	42.1	2000.0	9.000	On	L1	19.7	3.9	46.0
1.050000	30.0	2000.0	9.000	On	L1	19.7	16.0	46.0
1.466000	27.4	2000.0	9.000	On	L1	19.6	18.6	46.0
2.634000	27.3	2000.0	9.000	On	L1	19.6	18.7	46.0
3.818000	26.2	2000.0	9.000	On	L1	19.6	19.8	46.0

EUT1 Charger and WCDMA 850MHz idle mode, Set.2

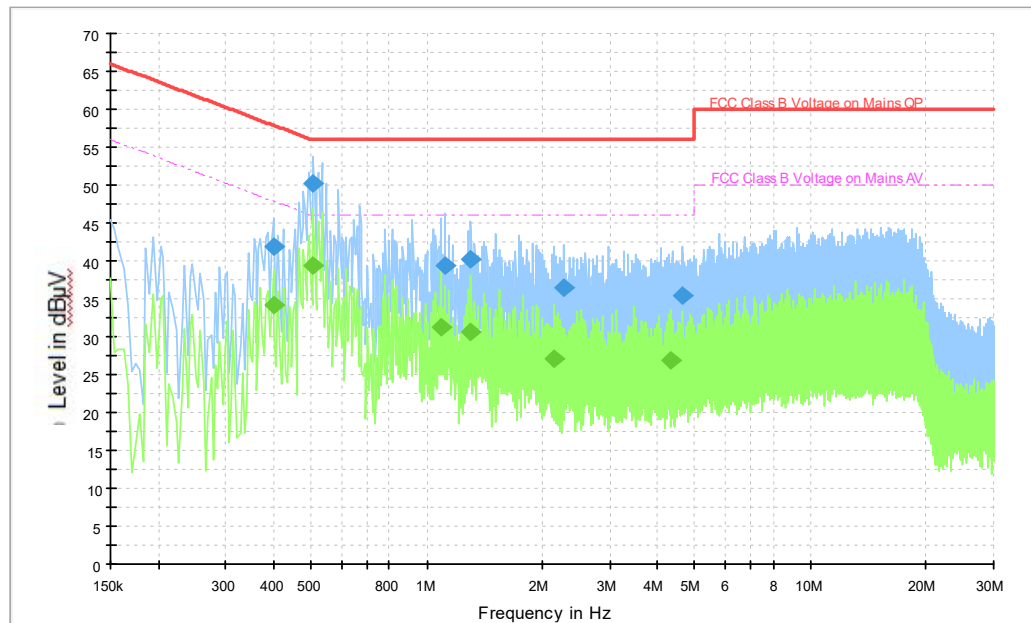


Figure B.14 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.398000	41.9	2000.0	9.000	On	L1	19.7	16.0	57.9
0.506000	50.1	2000.0	9.000	On	L1	19.7	5.9	56.0
1.114000	39.4	2000.0	9.000	On	L1	19.7	16.6	56.0
1.306000	40.2	2000.0	9.000	On	L1	19.6	15.8	56.0
2.282000	36.5	2000.0	9.000	On	L1	19.6	19.5	56.0
4.658000	35.4	2000.0	9.000	On	L1	19.6	20.6	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.398000	34.1	2000.0	9.000	On	L1	19.7	13.8	47.9
0.506000	39.5	2000.0	9.000	On	L1	19.7	6.5	46.0
1.086000	31.2	2000.0	9.000	On	L1	19.7	14.8	46.0
1.306000	30.7	2000.0	9.000	On	L1	19.6	15.3	46.0
2.138000	27.1	2000.0	9.000	On	L1	19.6	18.9	46.0
4.342000	26.9	2000.0	9.000	On	L1	19.6	19.1	46.0

EUT1 USB connected to PC and MP3 mode, Set.3

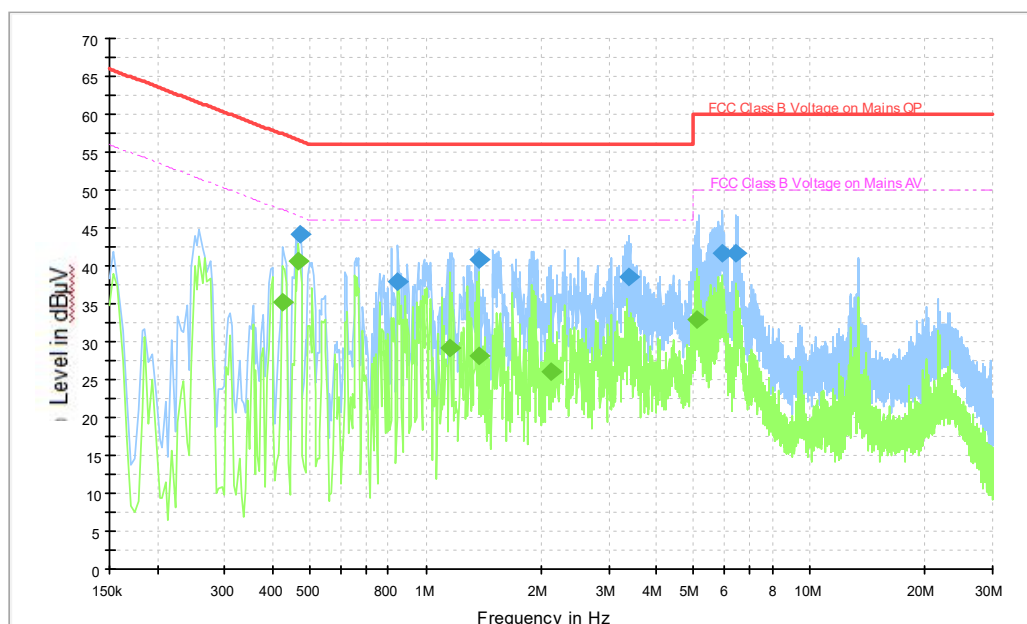


Figure B.15 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.470000	44.2	2000.0	9.000	On	L1	19.7	12.3	56.5
0.846000	37.9	2000.0	9.000	On	N	19.6	18.1	56.0
1.378000	40.8	2000.0	9.000	On	L1	19.6	15.2	56.0
3.390000	38.5	2000.0	9.000	On	L1	19.6	17.5	56.0
5.906000	41.6	2000.0	9.000	On	N	19.6	18.4	60.0
6.458000	41.7	2000.0	9.000	On	L1	19.7	18.3	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.422000	35.1	2000.0	9.000	On	L1	19.7	12.3	47.4
0.466000	40.7	2000.0	9.000	On	L1	19.7	5.9	46.6
1.150000	29.1	2000.0	9.000	On	L1	19.7	16.9	46.0
1.378000	28.2	2000.0	9.000	On	L1	19.6	17.8	46.0
2.122000	26.1	2000.0	9.000	On	L1	19.6	19.9	46.0
5.086000	32.8	2000.0	9.000	On	N	19.6	17.2	50.0

EUT1 USB connected to PC and Video mode, Set.4

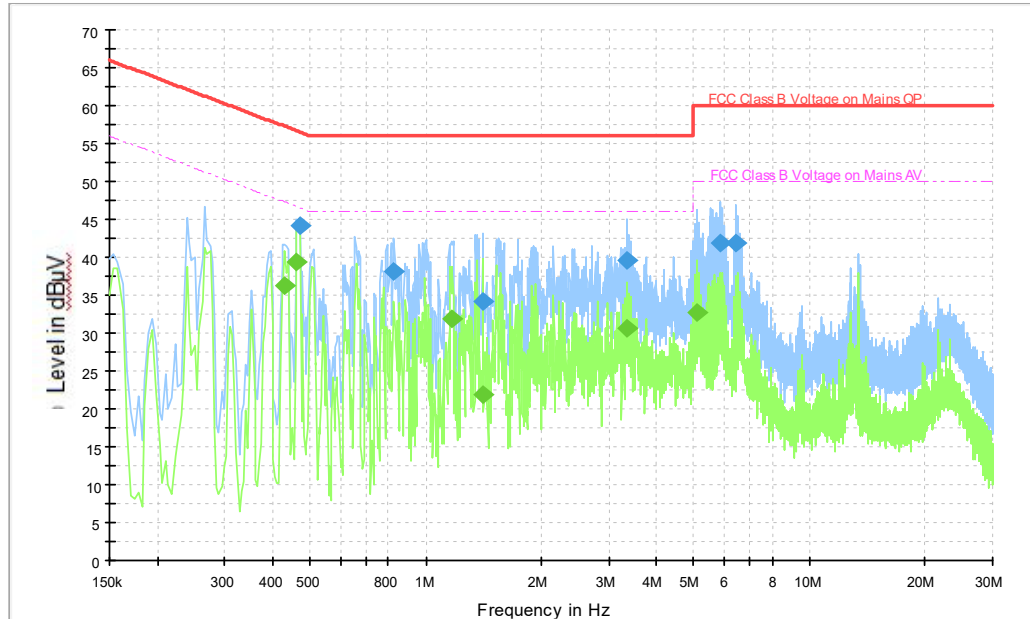


Figure B.16 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.470000	44.2	2000.0	9.000	On	L1	19.7	12.3	56.5
0.826000	38.1	2000.0	9.000	On	N	19.6	17.9	56.0
1.406000	34.2	2000.0	9.000	On	L1	19.6	21.8	56.0
3.358000	39.7	2000.0	9.000	On	N	19.6	16.3	56.0
5.862000	41.9	2000.0	9.000	On	L1	19.6	18.1	60.0
6.458000	41.8	2000.0	9.000	On	N	19.6	18.2	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.430000	36.3	2000.0	9.000	On	L1	19.7	10.9	47.3
0.462000	39.4	2000.0	9.000	On	N	19.7	7.2	46.7
1.170000	32.0	2000.0	9.000	On	N	19.6	14.0	46.0
1.406000	21.8	2000.0	9.000	On	L1	19.6	24.2	46.0
3.358000	30.6	2000.0	9.000	On	N	19.6	15.4	46.0
5.098000	32.7	2000.0	9.000	On	L1	19.6	17.3	50.0

EUT3 Charger and Camera mode, Set.6

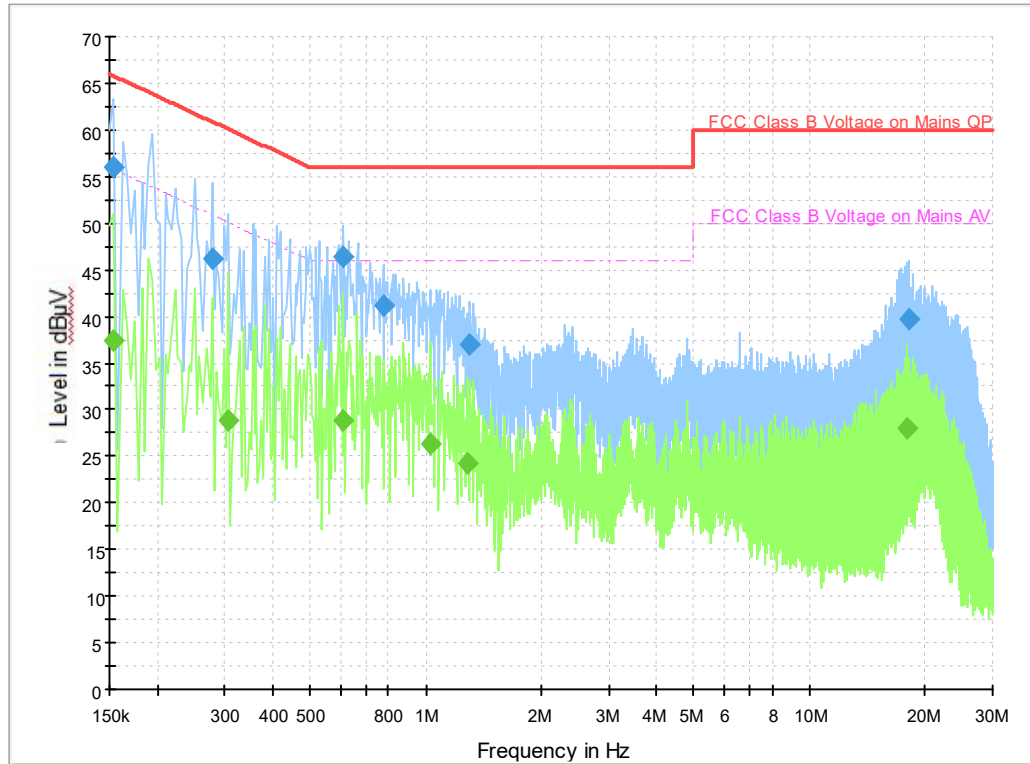


Figure B.17 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154000	55.9	2000.0	9.000	On	L1	20.0	9.8	65.8
0.278000	46.1	2000.0	9.000	On	L1	19.9	14.8	60.9
0.610000	46.3	2000.0	9.000	On	L1	20.0	9.7	56.0
0.774000	41.1	2000.0	9.000	On	L1	19.9	14.9	56.0
1.306000	37.0	2000.0	9.000	On	N	19.7	19.0	56.0
18.066000	39.7	2000.0	9.000	On	L1	20.0	20.3	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154000	37.3	2000.0	9.000	On	L1	20.0	18.5	55.8
0.306000	28.8	2000.0	9.000	On	L1	19.9	21.2	50.1
0.610000	28.8	2000.0	9.000	On	L1	20.0	17.2	46.0
1.030000	26.3	2000.0	9.000	On	N	19.7	19.7	46.0
1.278000	24.2	2000.0	9.000	On	N	19.7	21.8	46.0
17.898000	28.1	2000.0	9.000	On	L1	20.0	21.9	50.0

ANNEX C: Persons involved in this testing

Test Item	Tester
Radiated Emission	Ding Zai, Yan Hanchen
Conducted Emission	Li Pengfei, Ding Zai

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