



TEST REPORT

No.I23N01648-EMC

for

TCL Communication Ltd.

LTE/WCDMA/GSM mobile phone

Model Name: T311E

With

Hardware Version: V00

Software Version: T311E_OFEO_2SIM_V1.0_20230922_UNLOCK

FCC ID: 2ACCJB196

Issued Date:2023-10-18

Designation Number: CN1210

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 SAICT.

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No.I23N01648-EMC

REPORT HISTORY

Report Number	Revision	Description	Issue Date
I23N01648-EMC	Rev.0	1st edition	2023-10-18

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

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1. SUMMARY OF TEST REPORT

1.1. Test Items

Description	LTE/WCDMA/GSM mobile phone
Model Name	T311E
Applicant's name	TCL Communication Ltd.
Manufacturer's Name	TCL Communication Ltd.

1.2. Test Standards

FCC Part 15, Subpart B 10-1-2021 Edition; ANSI C63.4 2014;

1.3. Test Result

Total test 2 items, pass 2 items. Please refer to "6.2 Test Results".

1.4. Testing Location

Address: EMC Laboratory, Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, China

1.5. Project data

Testing Start Date: 2023-10-09

Testing End Date: 2023-10-11

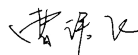
1.6. Signature



Huang Yuqing
(Prepared this test report)



Liang Yong
(Reviewed this test report)



Cao Junfei
(Approved this test report)



2. CLIENT INFORMATION

2.1. Applicant Information

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2.2. Manufacturer Information

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Park, Shatin, NT, Hong Kong
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Fax /

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT

(AE)

3.1. About EUT

Description	LTE/WCDMA/GSM mobile phone
Model Name	T311E
FCC ID	2ACCJB196
Condition of EUT as received	No obvious damage in appearance

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Receive Date
UT01aa	359467780007058	V00	T311E_OFCO_2SIM_V1.0_2 0230922_UNLOCK	2023-10-09

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

3.3. Internal Identification of AE

AE ID*	Description
AE1	Battery
AE2	Charger
AE3	Headset

AE1-1

Model	TLi010CA
Manufacturer	ZhongShan Tianmao Battery Co., Ltd.
Capacity	1030mAh
Nominal Voltage	3.7 V

AE1-2

Model	TLi010CB
Manufacturer	Shenzhen Aerospace Electronic Co.,Ltd.
Capacity	1030mAh
Nominal Voltage	3.7 V

AE2-1

Model	XT-252A-5055
Manufacturer	ShenZhen BaiJunDa Electronics Co., Ltd.
Specification	American Standard Charger

AE2-2

Model	AG05A0500550UD
Manufacturer	Huizhou Juwei Electronics Co., Ltd.
Specification	American Standard Charger



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AE3

Model JWEP1259-M01R

Manufacturer Huizhou Juwei Electronics Co., Ltd.

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

AE: ancillary equipment

3.4. EUT Set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT+AE1-1+AE2-1+AE3	
Set.2	EUT+AE1-1+AE2-2+AE3	

3.5. General Description

The Equipment Under Test (EUT) is a model of LTE/WCDMA/GSM mobile phone with internal antenna.

Frequency Bands GSM 850/1900MHz, WCDMA Bands 2/4/5, LTE Bands 2/4/5/7/13,

It has MP3, FM Receiver, Camera, USB memory and Bluetooth functions.

It consists of normal options: Battery, Charger and Headset.

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

Samples (EUT+AE) undergoing test were selected by the Client. Relevant information is provided by the client.

The LTE/WCDMA/GSM mobile phone T311E Applicant by TCL Communication Ltd., is a variant model based on T311A Applicant by TCL Communication Ltd. for conformance test.

According to client's description, the table below shows the difference:

Changes	T311E	T311A
Battery	TLi010CA TLi010CB	TLi010CA
US Charger	XT-252A-5055 AG05A0500550UD	XT-252A-5055
SIM	supports 2 SIM	supports 1 SIM

According to the declaration of differences by manufacturer, the following tests need to be performed the worst mode from the report of the initial model:

No	Test Item	EUT set-up No	Test Mode
1	Radiated Emission	Set.1, Set.2	Camera
2	Conducted Emission	Set.1, Set.2	Camera

Other results are cited from the initial report.

The report number for initial model is I22N02497-EMC.

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	(10-1-2021 Edition)
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

5. LABORATORY ENVIRONMENT

Anechoic chamber (FACT3-2.0) did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3 m distance, from 30 to 1000 MHz
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

Shield 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-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω

6. SUMMARY OF TEST RESULTS

6.1. Testing Environment

Normal Temperature: 15~35℃
Relative Humidity: 20~75%
Atmospheric pressure 86~106kPa

6.2. Summary of Measurement Results

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

Items	Test Name	Clause in FCC/IC rules	Section in this report	Verdict
1	Radiated Emission	15.109(a)/ Section 6.2	A.1	P
2	Conducted Emission	15.107(a)/ Section 6.1	A.2	P

6.3. Statement

6.3.1 Statements of conformity

This report takes measured values as criterion of test conclusion. The test conclusion meets the limit requirements.

7. MEASUREMENT UNCERTAINTY

Test item	Frequency ranges	Measurement uncertainty
Radiated Emission	30MHz-1GHz	4.80dB(k=2)
	1GHz-18GHz	4.62dB(k=2)
Conducted Emission	150kHz-30MHz	2.68dB(k=2)

8. MEASURING APPARATUS UTILIZED

No.	Name	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1.	Test Receiver	ESR7	101676	R&S	2023.11.23	1 year
2.	Test Receiver	ESCI	100702	R&S	2024.01.11	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2024.01.11	1 year
4.	BiLog Antenna	3142E	00224831	ETS-Lindgren	2024.05.27	3 years
5.	LISN	ENV216	102067	R&S	2024.10.07	1 year
6.	Horn Antenna	3117	00066577	ETS-Lindgren	2025.04.17	3 years
7.	Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2025.05.28	2 years

9. MEASURING SOFTWARE

No.	Name	Manufacturer	Version
1	EMC32	Rohde & Schwarz	V10.50.40

ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission (§15.109(a))

Reference

FCC: Part 15.109(a)

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator at a distance of 3 meters or 1 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. Below 18GHz the measurement antenna was placed at a distance of 3 meters from the EUT. Above 18GHz the measurement antenna was placed at a distance of 1 meters from the EUT. (According to Part 15.31(f)(1), 1m limit is calculated by extrapolation factor of 20 dB/decade). 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:

Camera: At the beginning of measurement, the battery is completely discharged. The battery and charger are installed so that the EUT works well and keeping on taking photos.

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. For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

A.1.3 Measurement Limit

Limit from Part 15.109(a)

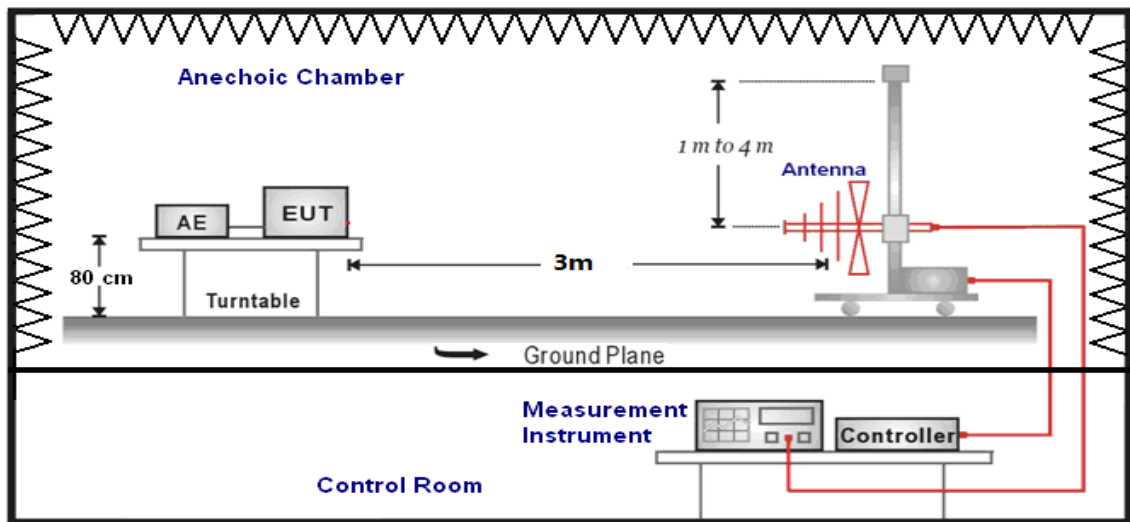
Frequency range (MHz)	Field strength limit ($\mu\text{V/m}$)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

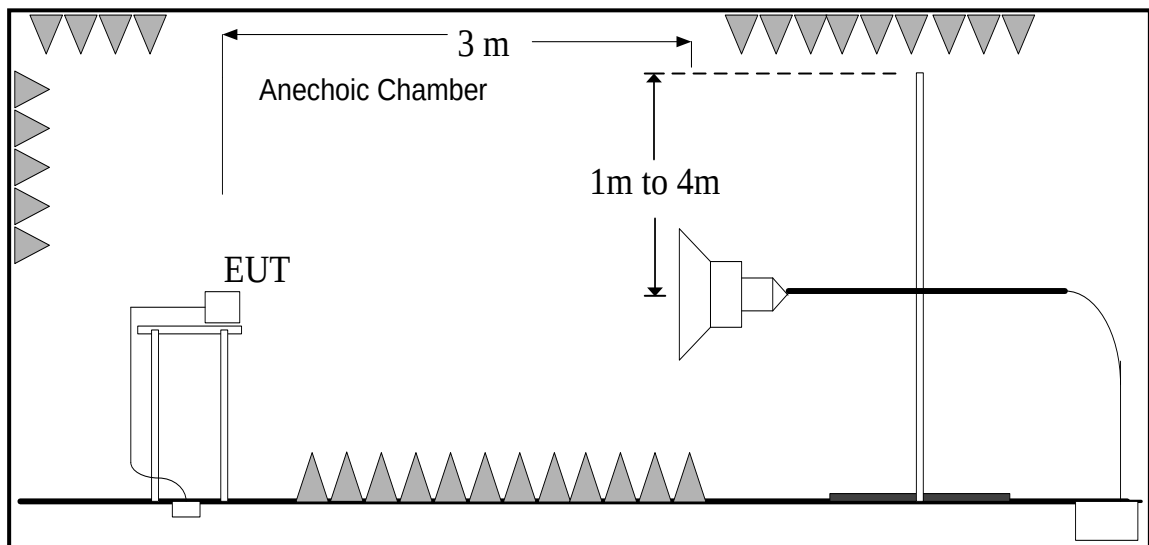
A.1.4 Test Condition

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

A.1.5 Test set-up: 30MHz-1GHz



1GHz-40GHz



A.1.6 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:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Result: Quasi-Peak(dB μ V/m) / Average(dB μ V/m)/Peak(dB μ V/m)

Note: the result contains vertical part and Horizontal part

Camera

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT01aa/Set.1	
30-88	40.00	See Figure A.1.1.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT01aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.2.	P

Camera

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT01aa/Set.2	
30-88	40.00	See Figure A.1.3.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT01aa/Set.2	
1000 to 18000	54.00	74.00	See Figure A.1.4.	P

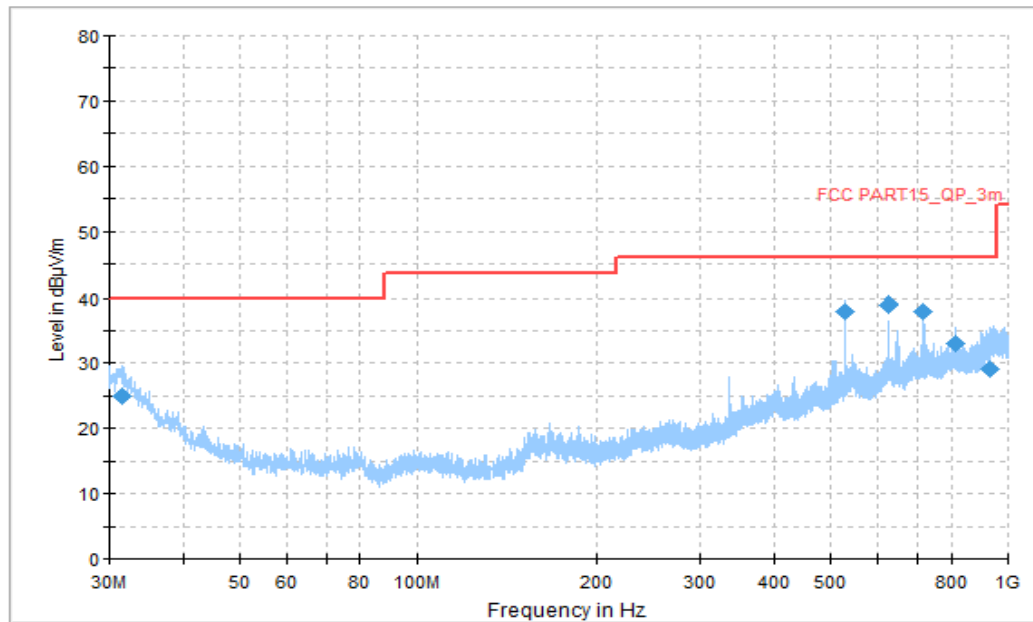


Figure A.1.1. Radiated Emission (Camera, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
31.508889	24.88	40.00	15.12	V	-12	36.88
527.340556	37.82	46.02	8.20	V	-4	41.82
624.663889	38.82	46.02	7.20	V	-1	39.82
719.346667	37.87	46.02	8.15	V	-1	38.87
816.670000	33.07	46.02	12.95	V	1	32.07
932.800556	29.05	46.02	16.97	H	3	26.05

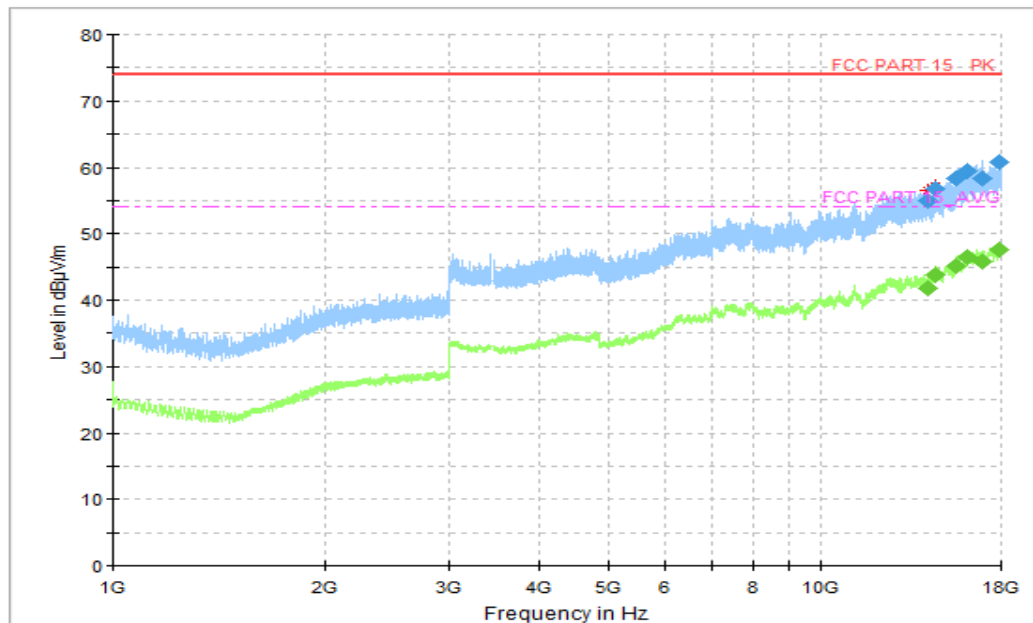


Figure A.1.2. Radiated Emission (Camera, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
14143.250000	54.96	74.00	19.04	V	18	36.96
14566.250000	56.77	74.00	17.23	V	19	37.77
15575.250000	58.28	74.00	15.72	V	20	38.28
16166.000000	59.47	74.00	14.53	H	22	37.47
16906.000000	58.25	74.00	15.75	V	22	36.25
17909.500000	60.75	74.00	13.25	H	25	35.75

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
14143.250000	41.74	54.00	12.26	V	18	23.74
14566.250000	43.85	54.00	10.15	V	19	24.85
15575.250000	45.07	54.00	8.93	V	20	25.07
16166.000000	46.43	54.00	7.57	H	22	24.43
16906.000000	45.87	54.00	8.13	V	22	23.87
17909.500000	47.52	54.00	6.48	H	25	22.52

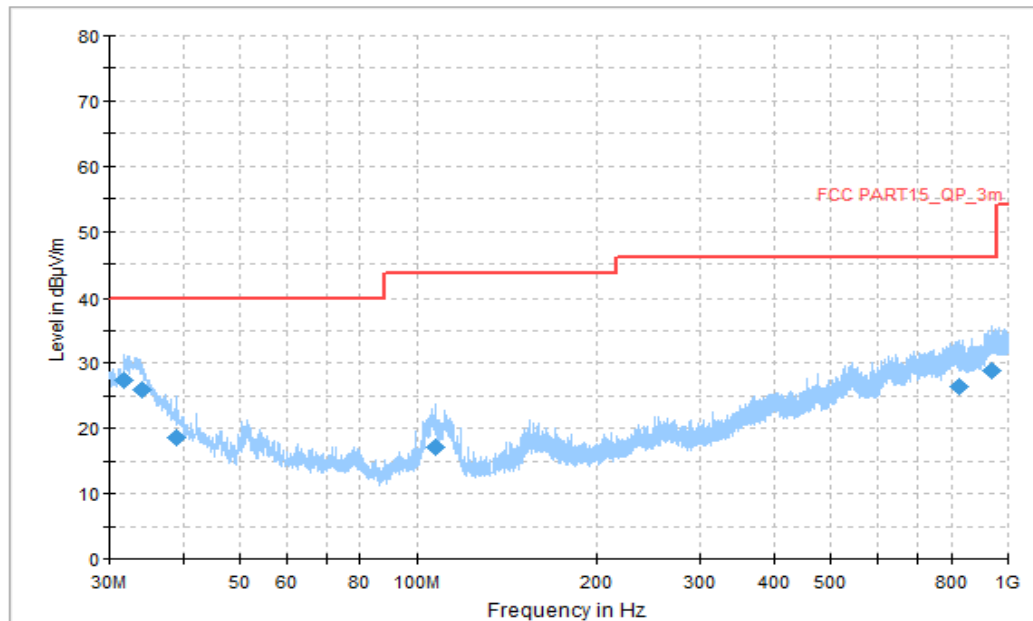


Figure A.1.3. Radiated Emission (Camera, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
31.778333	27.46	40.00	12.54	V	-12	39.46
34.149444	25.83	40.00	14.17	V	-14	39.83
38.945556	18.65	40.00	21.35	V	-16	34.65
107.115000	17.13	43.52	26.39	V	-18	35.13
825.238333	26.54	46.02	19.48	H	1	25.54
940.560556	28.95	46.02	17.07	V	3	25.95

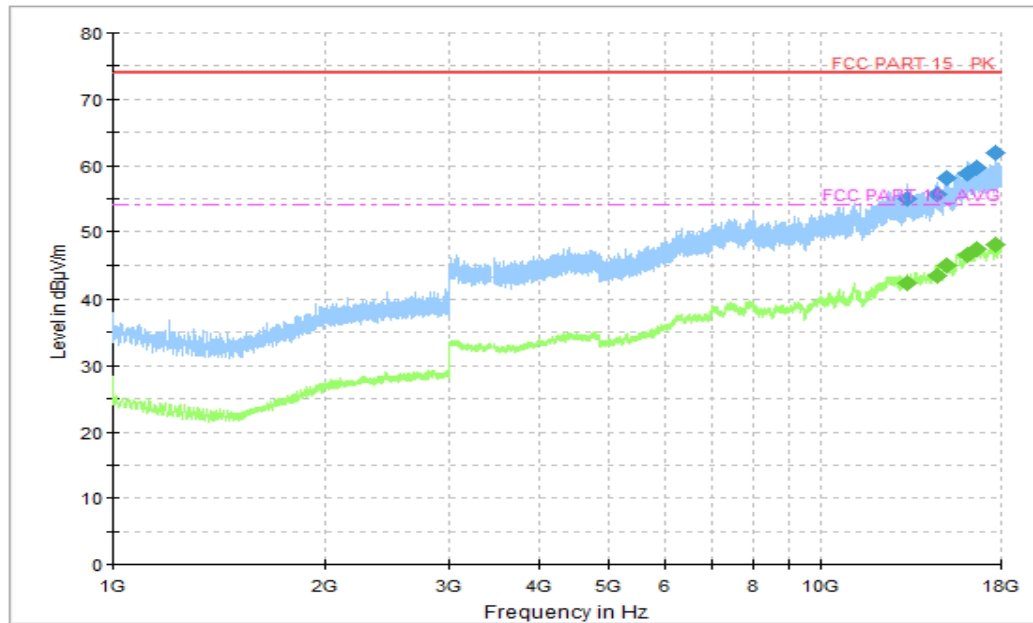


Figure A.1.4. Radiated Emission (Camera, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13277.000000	55.03	74.00	18.97	H	18	37.03
14601.750000	55.67	74.00	18.33	H	19	36.67
15103.750000	58.13	74.00	15.87	H	20	38.13
16157.250000	58.70	74.00	15.30	V	22	36.70
16610.750000	59.70	74.00	14.30	H	23	36.7
17702.250000	61.86	74.00	12.14	H	24	37.86

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13277.000000	42.32	54.00	11.68	H	18	24.32
14601.750000	43.45	54.00	10.55	H	19	24.45
15103.750000	44.83	54.00	9.17	H	20	24.83
16157.250000	46.53	54.00	7.47	V	22	24.53
16610.750000	47.35	54.00	6.65	H	23	24.35
17702.250000	47.97	54.00	6.03	H	24	23.97

A.2 Conducted Emission (§15.107(a))

Reference

FCC: 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 150kHz to 30MHz 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:

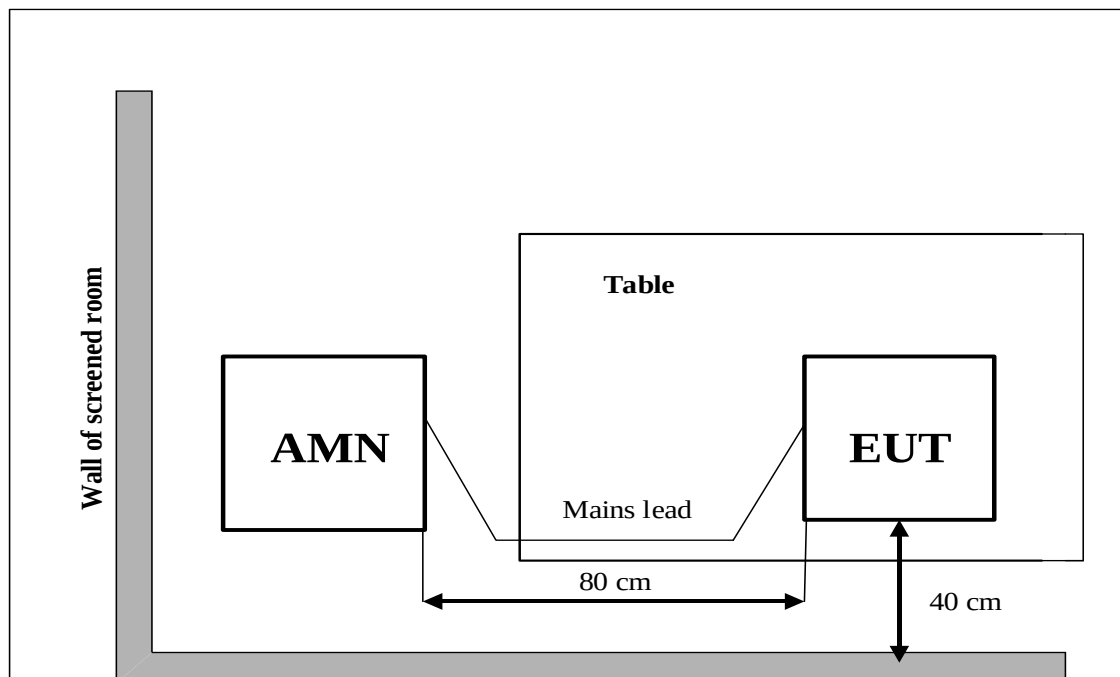
Camera: At the beginning of measurement, the battery is completely discharged. The battery and charger are installed so that the EUT works well and keeping on taking photos.

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 set-up:



A.2.5 Test Condition in charging mode

Voltage (V)	Frequency (Hz)
120	60
240	60

RBW	Sweep Time(s)
9kHz	1

A.2.6 Measurement Results

QuasiPeak(dBμV) /Average(dBμV) =PMea+Corr

Where

Corr: PathLoss + Voltage Division Factor

PMea: Measurement result on receiver.

Camera

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT01aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.1.	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Camera

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT01aa/Set.2	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.2.	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Camera

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT01aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.3.	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Camera

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
			UT01aa/Set.2	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.4.	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

AC Input Port/ Voltage: 120V/60Hz

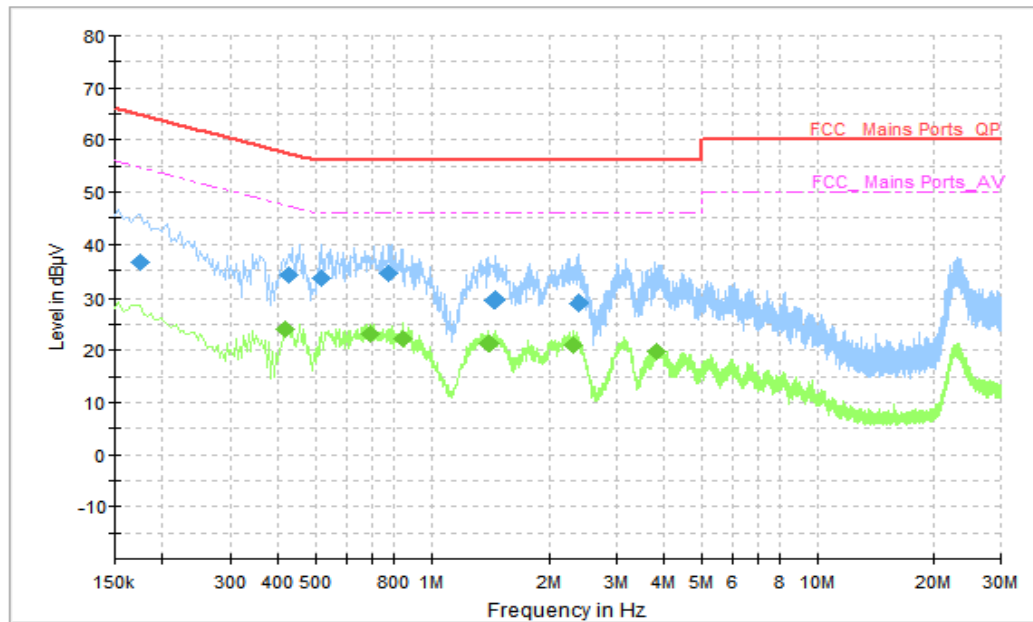


Figure A.2.1. Conducted Emission (Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.174000	36.59	64.77	28.17	N	8	28.59
0.426000	34.14	57.33	23.19	N	10	24.14
0.518000	33.55	56.00	22.45	N	10	23.55
0.770000	34.31	56.00	21.69	N	10	24.31
1.450000	29.68	56.00	26.32	N	10	19.68
2.390000	28.85	56.00	27.15	N	10	18.85

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.418000	24.11	47.49	23.38	N	10	14.11
0.694000	23.21	46.00	22.79	N	10	13.21
0.846000	22.22	46.00	23.78	N	10	12.22
1.410000	21.16	46.00	24.84	N	10	11.16
2.318000	21.04	46.00	24.96	N	10	11.04
3.822000	19.73	46.00	26.27	L1	10	9.73

AC Input Port/ Voltage: 120V/60Hz

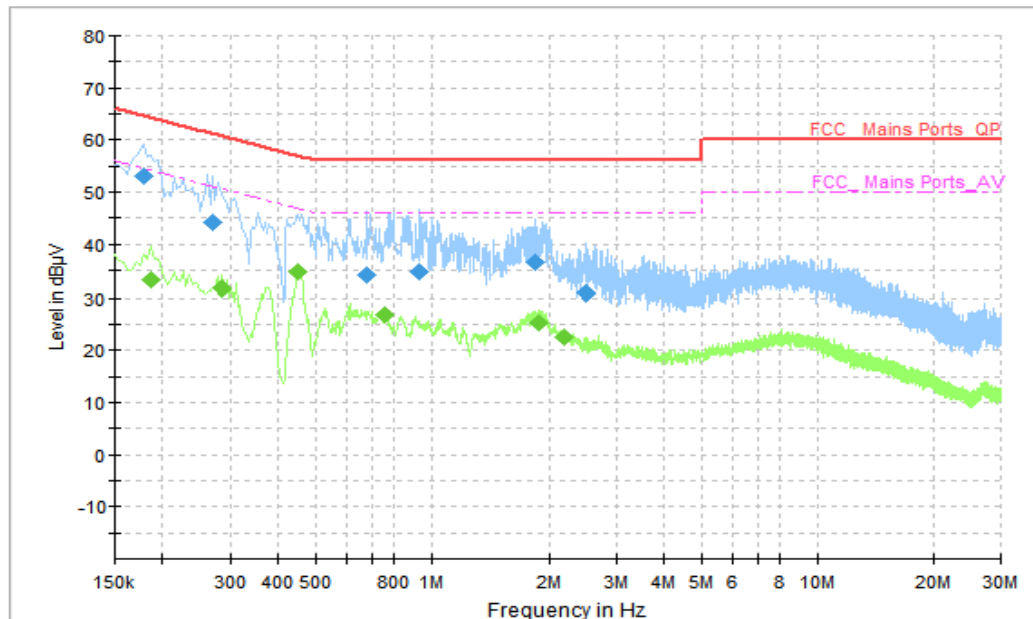


Figure A.2.2. Conducted Emission (Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.178000	53.08	64.58	11.50	L1	10	43.08
0.270000	44.34	61.12	16.77	N	10	34.34
0.682000	34.07	56.00	21.93	N	10	24.07
0.934000	34.70	56.00	21.30	N	10	24.70
1.846000	36.67	56.00	19.33	N	10	26.67
2.502000	30.73	56.00	25.27	N	10	20.73

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.186000	33.07	54.21	21.14	N	9	24.07
0.286000	31.65	50.64	18.99	L1	10	21.65
0.450000	34.82	46.88	12.06	L1	10	24.82
0.754000	26.70	46.00	19.30	L1	10	16.70
1.874000	25.22	46.00	20.78	N	10	15.22
2.190000	22.60	46.00	23.40	L1	10	12.60

AC Input Port/ Voltage: 240V/60Hz

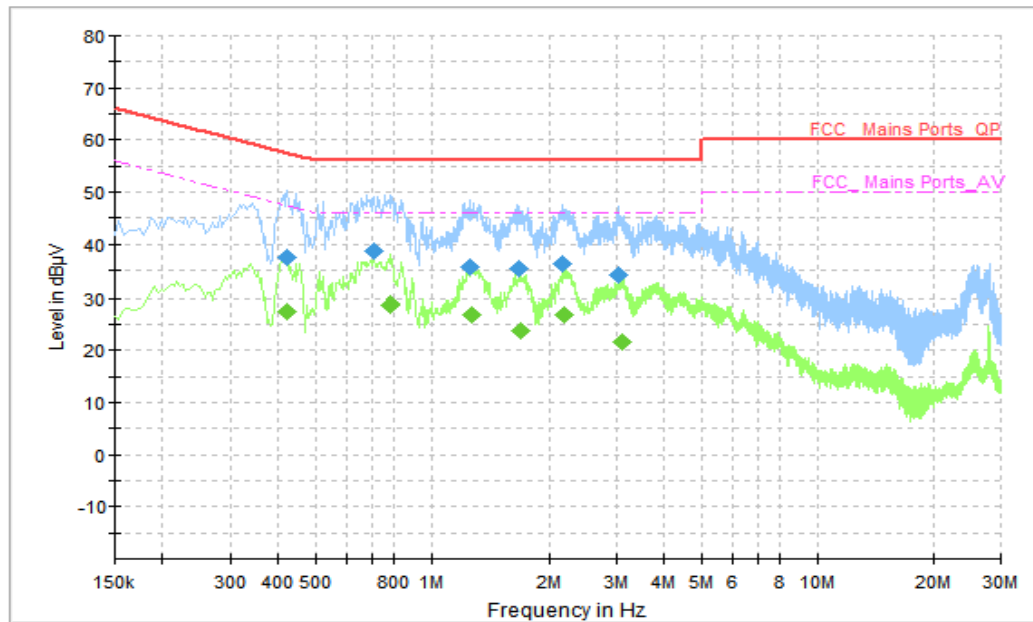


Figure A.2.3. Conducted Emission (Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.422000	37.38	57.41	20.02	N	10	27.38
0.706000	38.68	56.00	17.32	N	10	28.68
1.262000	35.77	56.00	20.23	N	10	25.77
1.674000	35.39	56.00	20.61	N	10	25.39
2.158000	36.16	56.00	19.84	N	10	26.16
3.022000	34.13	56.00	21.87	N	10	24.13

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.422000	27.33	47.41	20.08	N	10	17.33
0.782000	28.75	46.00	17.25	N	10	18.75
1.270000	26.80	46.00	19.20	N	10	16.80
1.690000	23.65	46.00	22.35	N	10	13.65
2.182000	26.86	46.00	19.14	N	10	16.86
3.094000	21.64	46.00	24.36	N	10	11.64

AC Input Port/ Voltage: 240V/60Hz

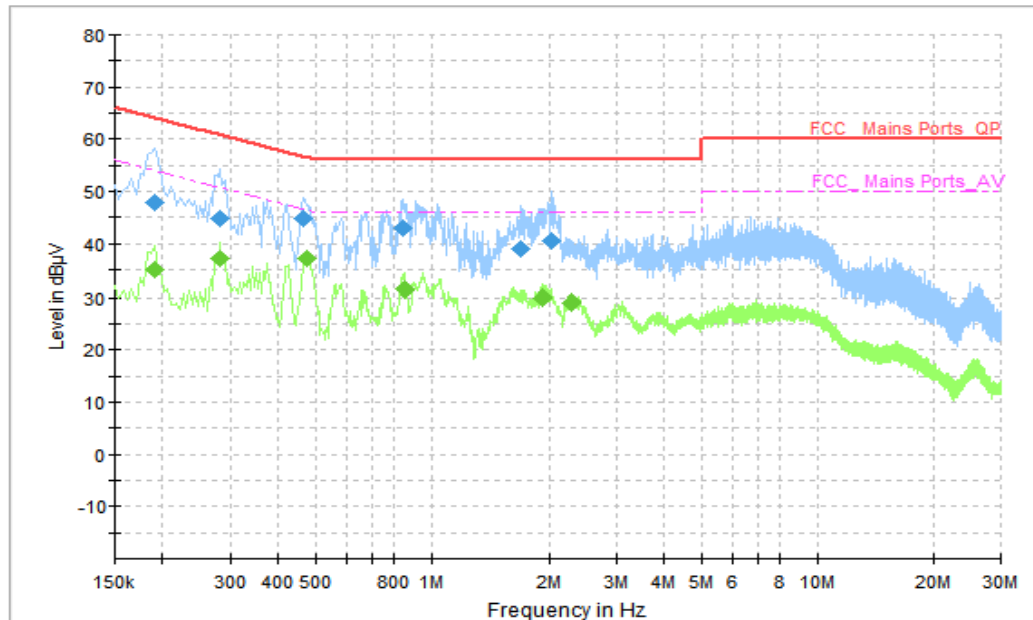


Figure A.2.4. Conducted Emission (Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.190000	47.77	64.04	16.27	N	9	38.77
0.282000	44.79	60.76	15.97	N	10	34.79
0.462000	44.90	56.66	11.76	L1	10	34.90
0.846000	42.95	56.00	13.05	N	10	32.95
1.690000	39.15	56.00	16.85	N	10	29.15
2.022000	40.69	56.00	15.31	N	10	30.69

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.190000	35.03	54.04	19.00	L1	10	25.03
0.282000	37.12	50.76	13.63	L1	10	27.12
0.474000	37.25	46.44	9.19	L1	10	27.25
0.850000	31.50	46.00	14.50	L1	10	21.50
1.934000	29.82	46.00	16.18	N	10	19.82
2.298000	28.93	46.00	17.07	L1	10	18.93

END OF REPORT