



## **TEST REPORT**

No.I20N03484-EMC

for

**TCL Communication Ltd.** 

**True Wireless Headphones** 

Model Name: TW30

With

Hardware Version: 40-00TW30-MAD4G(CHARGING

CASE)40-00TW309MID6H (EARPHONES)

Software Version: V1.1.0.12

FCC ID: 2ACCJB145

Issued Date: 2021-01-25

**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.

## **Test Laboratory:**

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## **REPORT HISTORY**

Report Number	Revision	Description	Issue Date
I20N03484-EMC	Rev.0	1st edition	2021-01-25

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



## **CONTENTS**

	SUMMARY OF TEST REPORT	
1.1.	. TEST ITEMS	4
1.2.	. TEST STANDARDS	4
1.3.	. TEST RESULT	4
1.4.	. TESTING LOCATION	4
1.5.	. PROJECT DATA	4
1.6.	. SIGNATURE	4
2.	CLIENTINFORMATION	5
2.1.	. APPLICANT INFORMATION	5
2.2.	. MANUFACTURER INFORMATION	5
3.	EQUIPMENT UNDERTEST (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	8
3.5.	. GENERAL DESCRIPTION	9
4.	REFERENCE DOCUMENTS	. 10
4. 4.1.		
4.1.	. REFERENCE DOCUMENTS FOR TESTING	. 10
4.1.	REFERENCE DOCUMENTS FOR TESTINGLABORATORY ENVIRONMENT	. 10 . 11
4.1. 5.	REFERENCE DOCUMENTS FOR TESTING	. 10 . 11 . 12
4.1. 5. 6.	REFERENCE DOCUMENTS FOR TESTING	. 10 . 11 . 12 . 12
4.1. 5. 6. 6.1. 6.2.	REFERENCE DOCUMENTS FOR TESTING	. 10 . 11 . 12 . 12
4.1. 5. 6. 6.1. 6.2. 6.3.	REFERENCE DOCUMENTS FOR TESTING	. 10 . 11 . 12 . 12 . 12
4.1. 5. 6. 6.1. 6.2. 6.3.	REFERENCE DOCUMENTS FOR TESTING	. 10 . 11 . 12 . 12 . 12
4.1. 5. 6. 6.1. 6.2. 6.3. 7.	REFERENCE DOCUMENTS FOR TESTING	. 10 . 11 . 12 . 12 . 13
4.1. 5. 6. 6.1. 6.2. 6.3. 7. 8.	REFERENCE DOCUMENTS FOR TESTING	. 10 . 11 . 12 . 12 . 13 . 13



## 1. Summary of Test Report

## 1.1. Test Items

Description

True Wireless Headphones

Model Name

TW30

Applicant's name

TCL Communication Ltd.

Manufacturer's Name

TCL Communication Ltd.

## 1.2. Test Standards

FCC Part 15, Subpart B 10-1-2019 Edition; ANSI C63.4 2014

## 1.3. Test Result

#### **Pass**

Total test 2 items, pass 2 items. Please refer to "6.2 Summary of Measurement Results"

## 1.4. Testing Location

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

## 1.5. Project data

Testing Start Date: 2021-01-18

Testing End Date: 2021-01-20

## 1.6. Signature

Ma Shoujian

(Prepared this test report)

Zhang Yunzhuan

(Reviewed this test report)

Cao Junfei

(Approved this test report)



## 2. ClientInformation

## 2.1. Applicant Information

Company Name: TCL Communication Ltd.

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Address:

Park, Shatin, NT, Hong Kong

Contact: Gong Zhizhou

E-mail zhizhou.gong@tcl.com
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## 2.2. Manufacturer Information

Company Name: TCL Communication Ltd.

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Address:

Park, Shatin, NT, Hong Kong

Contact: Gong Zhizhou

E-mail zhizhou.gong@tcl.com Tel: 0086-755-36611722

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## 3. Equipment UnderTest (EUT) and Ancillary Equipment (AE)

## 3.1. About EUT

Description True Wireless Headphones

Model Name TW30

FCC ID 2ACCJB145
Antenna Type Internal Antenna

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*	ID* SN or HW Version		SW Version	Receive Date	
UT01aa	1	40-00TW30-MAD4G(Charging case)40-00TW309MID6H	V1.1.0.12	2021-01-08	
		(earphones)			

<sup>\*</sup>EUT ID: is used to identify the test sample in the lab internally.

## 3.3. Internal Identification of AE

AE ID\* Description

AE1 Charging Box

AE2 Charger

AE3 USB Cable

AE4-1 The battery of Charging Box

AE4-2 The battery of headset

AE5 Mobile Phone

AE1

Model TW30

Manufacturer TCL Communication Ltd.

AE2

Model A152A-090200U-CN1

Manufacturer Dongguan Aohai Technology Co.,Ltd.

AE3-1

Model ZW-TCL200623001

Manufacturer Shenzhen Zhanwang Precision Technology Co.,Ltd.

AE3-2

Model ZW-TCL200713001

Manufacturer Shenzhen Zhanwang Precision Technology Co.,Ltd.

AE4-1

## No.120N03484-EMC



Model 652040

Manufacturer Chongqing VDL Electronics Co., LTD.

Capacity 500mAh Nominal Voltage 3.7V

AE4-2

Model 1254

Manufacturer Chongqing VDL Electronics Co., LTD.

Capacity 55mAh Nominal Voltage 3.7V

AE5

Model MATE30 PRO

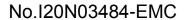
Manufacturer Huawei

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

AE: ancillary equipment.

\* AE3:The USB Cable of model ZW-TCL200623001(AE3-1) and ZW-TCL200713001 (AE3-2) are the same except the the colour.

AE5 is just for testing.





## 3.4. EUT set-ups

EUT set-up No.

**Combination of EUT and AE** 

Set.1

EUT+AE1+AE2+AE3-1+AE4-1+AE4-2 EUT+AE4-2+AE5

Set.2



## 3.5. General Description

The Equipment Under Test (EUT) is a model of True Wireless Headphones weared on the right ear with internal antenna

It has Bluetooth functions.

It consists of normal options: Charging Box, USB Cable and battery.

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



## 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,	Dadio fraguency devices	10-1-2019
Subpart B	Radio frequency devices	Edition
	Methods of Measurement of Radio-Noise Emissions from	
ANSI C63.4	Low-Voltage Electrical and Electronic Equipment in the	2014
	Range of 9 kHz to 40 GHz	



## 5. LABORATORY ENVIRONMENT

**Semi-anechoic chamber** 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,>60dB;
	1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
Normalised site attenuation (NSA)	<±4 dB, 3 m distance, from 30 to 1000 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-10000MHz,>90dB	
Electrical insulation	>2ΜΩ	
Ground system resistance	<4Ω	

## Fully-anechoic chamber 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,>60dB;
	1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz



## 6. SUMMARY OF TEST RESULTS

## 6.1. Testing Environment

Normal Temperature:  $15\sim35^{\circ}$ C Relative Humidity:  $20\sim75\%$ Atmospheric pressure  $86\sim106$ kPa

## 6.2. Summary of Measurement Results

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

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Radiated Emission	15.109(a)	A.1	Р
2	Conducted Emission	15.107(a)	A.2	Р

## 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 uncertaint	
Radiated Emission	30MHz-1GHz	4.84dB(k=2)	
	1GHz-18GHz	4.68dB(k=2)	
Conducted Emission	150kHz-30MHz	3.00dB(k=2)	

## 8. Test Facilities Utilized

NO.	NAME	TYPE	SERIES	PRODUCER	CALDUE	CAL
			NUMBER		DATE	PERIOD
1.	Test Receiver	ESR7	101676	R&S	2021.12.25	1 year
2.	Test Receiver	ESCI	100701	R&S	2021.08.09	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2022.01.13	1 year
4.	BiLog Antenna	3142E	0224831	ETS-Lindgren	2021.05.17	3 years
5.	LISN	ENV216	102067	R&S	2021.07.16	1 year
6.	Horn Antenna	3117	00066577	ETS-Lindgren	2022.04.02	3 years
7.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2021.07.19	2 years
8.	Software	EMC32	V10.01.00	R&S	1	1



## **ANNEX A: MEASUREMENT RESULTS**

#### A.1 Radiated Emission (§15.109(a))

#### Reference

FCC: CFR Part 15.109(a)

#### A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (Data transfer mode of EUT and charging mode of EUT) at a distance 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 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:

**Charging Mode:** Put EUT into the charging box and connecting with Charger, enter the charging state.

**Normal Working:** EUT is powered on. Turn on the Bluetooth function of the mobile phone; establish a communication connection with the EUT, and mobile phone playing songs through EUT.

This device does not contains the receivers which tune and operate between 30MHz-960MHz. 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

Limit from CFR Part 15.109(a)

Frequency range	Field strength limit (μV/m)			
(MHz)	Quasi-peak Average		Peak	
30-88	100			
88-216	150			
216-960	200			
960-1000	500			
>1000		500	5000	

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

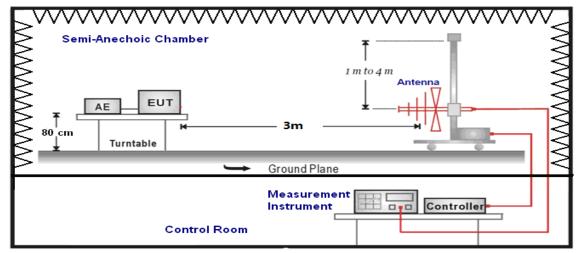
#### **A.1.4 Test Condition**

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

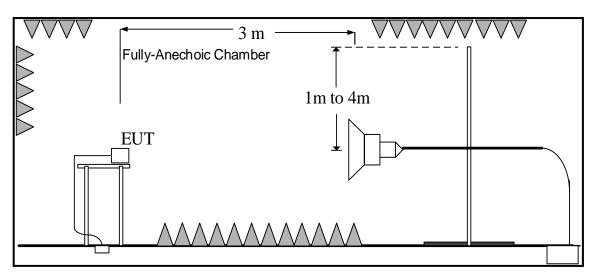


#### A.1.5 Test set-up:

#### 30MHz-1GHz



#### 1GHz-18GHz



## 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:

 $Result=P_{Mea}+A_{Rpl}=P_{Mea}+G_{A}+G_{PL}$ 

Where

G<sub>A</sub>: Antenna factor of receive antenna

G<sub>PL</sub>:PathLoss

P<sub>Mea</sub>: Measurement result on receiver.

Result:Quasi-Peak(dBµV/m) /Average(dBµV/m)/Peak(dBµV/m)

Note: the result contains vertical part and Horizontal part



## **Charging Mode**

Frequency range (MHz)	Quasi-Peak Limit (dB <sub>µ</sub> V/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
30-88	40.00		
88-216	43.50	Coo Fuguro A 4 4	D
216-960	46.02	See Fugure A.1.1.	Р
960-1000	54.00		

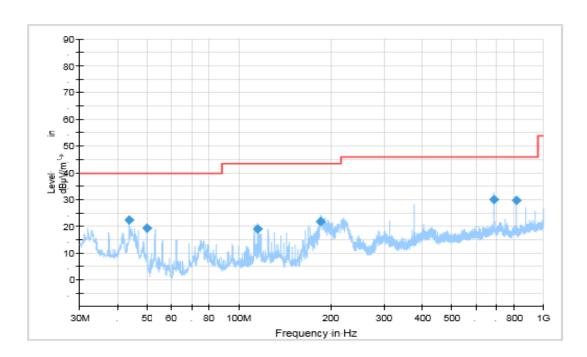
Frequency range	Average	Peak	Result (dBμV/m)	Conclusion
(MHz)	Limit (dBμV/m)	Limit (dBμV/m)	UT01aa/Set.1	Conclusion
1000 to 3000	54	74	See Fugure A.1.2.	Р
3000to 18000	54	74	See Fugure A.1.3.	Р

## Normal Working

Frequency range (MHz)	Quasi-Peak Limit (dB <sub>µ</sub> V/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
30-88	40.00		
88-216	43.50	Coo Fuguro A 4 4	Р
216-960	46.02	See Fugure A.1.4.	P
960-1000	54.00		

Frequency range	Average	Peak	Result (dBμV/m)	Conclusion
(MHz)	Limit (dBμV/m)	Limit (dBμV/m)	UT01aa/Set.1	Conclusion
1000 to 3000	54	74	See Fugure A.1.5.	Р
3000to 18000	54	74	See Fugure A.1.6.	Р



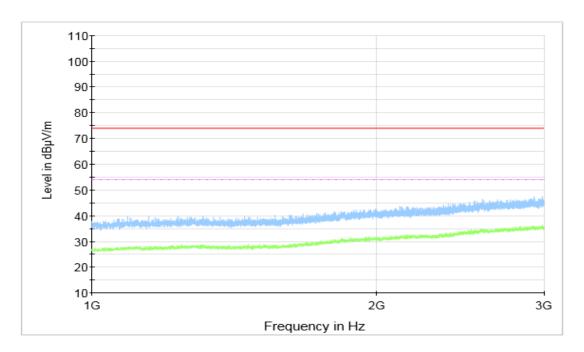


Fugure A.1.1. Radiated Emission (Charging Mode, 30MHz to 1GHz)

## Final\_Result

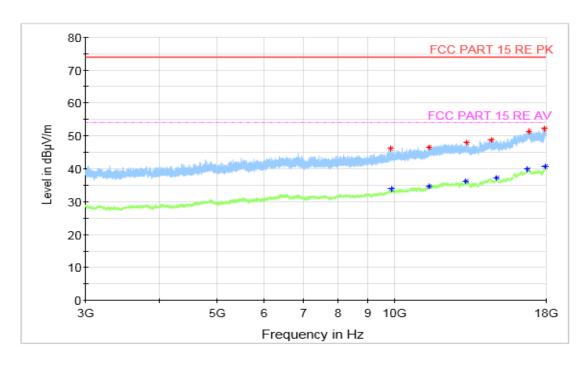
Frequency	QuasiPeak	Limit	Margin	Pol	ARpl	P <sub>Mea</sub>
(MHz)	(dBµV/m)	(dBµV/m)	(dB)		(dB/m)	(dBµV)
43.761667	22.34	40.00	17.66	V	-31.8	54.14
50.012778	19.47	40.00	20.53	V	-36.5	55.97
115.635556	19.01	43.50	24.49	V	-31.5	50.51
185.385000	21.74	43.50	21.76	V	-33.8	55.54
687.518333	30.04	46.00	15.96	V	-19.7	49.74
812.540556	29.78	46.00	16.22	V	-18.5	48.28





Fugure A.1.2. Radiated Emission (Charging Mode, 1GHz to 3GHz)





Fugure A.1.3. Radiated Emission (Charging Mode, 3GHz to 18GHz) Final\_Results\_PK

Fraguenov/MHz)	Peak	Limit	Margin(dD)	Dolority	ARpl	$P_{Mea}$
Frequency(MHz)	(dBµV/m)	(dBµV/m)	Margin(dB)	B) Polarity	(dB/m)	(dBµV)
9829.000000	46.08	74.00	27.92	V	5.0	41.08
11430.500000	46.54	74.00	27.46	Н	6.8	39.74
13223.500000	47.99	74.00	26.01	V	9.6	38.39
14540.500000	48.71	74.00	25.29	V	11.7	37.01
16873 500000	51 42	74 00	22 58	Н	15.9	35.52

74.00

Н

17.2

35.09

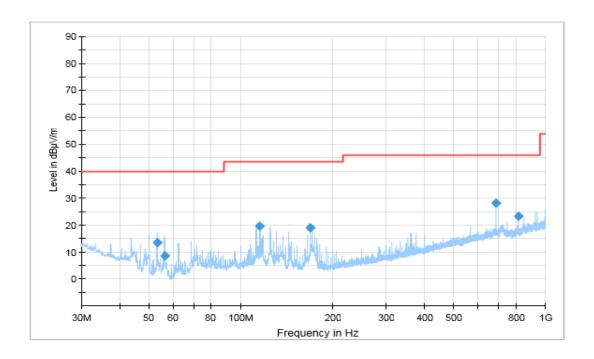
21.71

# 17914.000000 Final\_Results\_AVG

52.29

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9857.000000	33.78	54.00	20.22	Н	5.3	28.48
11434.500000	34.60	54.00	19.40	V	6.8	27.8
13190.000000	36.24	54.00	17.76	Н	9.8	26.44
14885.000000	37.29	54.00	16.71	V	11.7	25.59
16761.500000	39.87	54.00	14.13	<b>V</b>	15.5	24.37
17950.500000	40.66	54.00	13.34	V	17.2	23.46



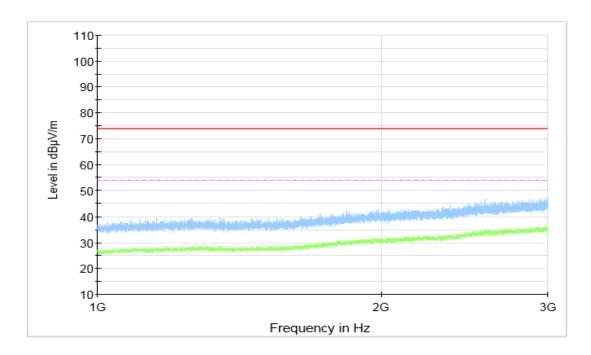


Fugure A.1.4. Radiated Emission (Normal Working, 30MHz to 1GHz)

## Final\_Result

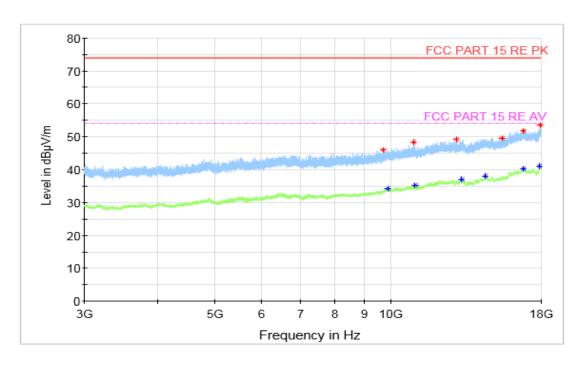
Frequency	QuasiPeak	Limit	Margin	Pol	ARpl	$P_{Mea}$
(MHz)	(dBµV/m)	(dBµV/m)	(dB)		(dB/m)	(dBµV)
53.124444	13.45	40.00	26.55	V	-38.1	51.55
56.250000	8.58	40.00	31.42	V	-38.3	46.88
115.635556	19.71	43.50	23.79	V	-31.5	51.21
168.770000	19.00	43.50	24.50	V	-31.5	50.5
687.518333	28.34	46.00	17.66	V	-19.7	48.04
812.540556	23.43	46.00	22.57	V	-18.5	41.93





Fugure A.1.5. Radiated Emission (Normal Workingz, 1GHz to 3GHz)





Fugure A.1.6. Radiated Emission ( Normal Working, 3GHz to 18GHz)

## Final\_Results\_PK

Fragues ov (MHz)	Peak	Limit Margin(dR)	Margin(dP)	Margin(dP)	Polarity	ARpl	P <sub>Mea</sub>
Frequency(MHz)	(dBµV/m)	(dBµV/m)	Margin(dB)	Polarity	(dB/m)	(dBµV)	
9705.000000	45.98	74.00	28.02	V	4.8	41.18	
10916.000000	48.30	74.00	25.70	Н	6.6	41.7	
12906.500000	49.13	74.00	24.87	V	9.3	39.83	
15471.000000	49.65	74.00	24.35	Н	12.6	37.05	
16818.500000	51.88	74.00	22.12	Н	16.0	35.88	
17936.000000	53.54	74.00	20.46	Н	17.0	36.54	

## Final\_Results\_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9856.000000	34.21	54.00	19.79	Н	5.3	28.91
10973.500000	35.35	54.00	18.65	Н	6.6	28.75
13190.000000	37.04	54.00	16.96	Н	9.8	27.24
14485.500000	38.03	54.00	15.97	V	11.7	26.33
16784.000000	40.30	54.00	13.70	Н	15.9	24.4
17907.500000	41.02	54.00	12.98	Н	17.3	23.72



#### A.2 Conducted Emission (§15.107(a))

#### 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 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:

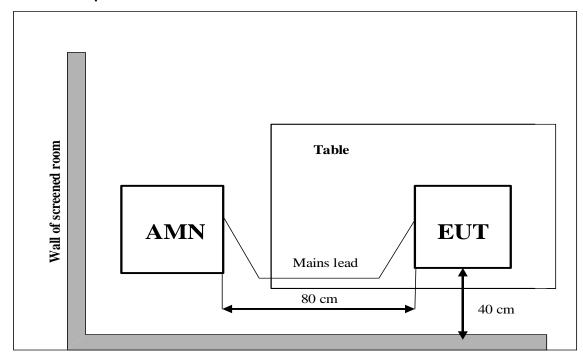
**Charging Mode:** Put EUT into the charging box and connecting with Charger, enter the charging state.

#### 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.2.4Test 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.

## Charging Mode

AC Input Port/ Voltage: 120V/60Hz

Frequency range	Quasi-peak	Average Limit	Result (dBμV)	Canalysian
(MHz)	Limit (dBμV)	(dBμV)	UT01aa/Set.1	Conclusion
0.15 to 0.5	66 to 56	56 to 46		
0.5 to 5	56	46	See Figure A.2.1	Р
5 to 30	60	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range  $0.15\,\mathrm{MHz}$  to  $0.5\,\mathrm{MHz}$ .



## **Charging Mode**

AC Input Port/ Voltage: 240V/60Hz

Frequency range	Quasi-peak	Average Limit	Result (dBμV)	Conclusion
(MHz)	Limit (dBμV)	(dB <sub>μ</sub> V) UT01aa/Set.1		Conclusion
0.15 to 0.5	66 to 56	56 to 46		
0.5 to 5	56	46	See Figure A.2.2	Р
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

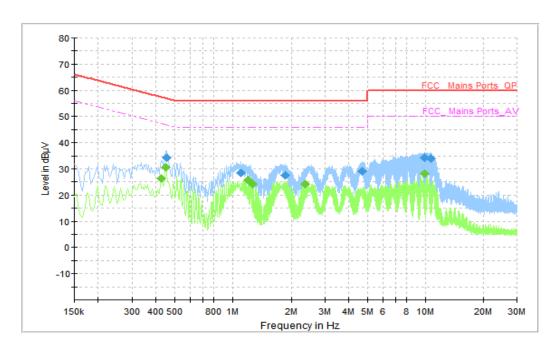


Figure A.2.1 Conducted Emission(Charging Mode)

## Final Result QPK

Frequency	QuasiPeak	Limit	Margin	Line	Corr.	P <sub>Mea</sub>
(MHz)	(dBµV)	(dBµV)	(dB)		(dB)	(dBµV)
0.454000	34.19	56.80	22.62	L1	10	24.19
1.110000	28.53	56.00	27.47	N	10	18.53
1.866000	27.54	56.00	28.46	N	10	17.54
4.710000	28.95	56.00	27.05	N	10	18.95
9.862000	34.22	60.00	25.78	N	10	24.22
10.706000	34.12	60.00	25.88	N	10	24.12

## Final\_Result\_AVG

Frequency	Average	Limit	Margin	Line	Corr.	P <sub>Mea</sub>
(MHz)	(dBµV)	(dBµV)	(dB)		(dB)	(dBµV)
0.426000	26.38	47.33	20.95	L1	10	16.38
0.450000	30.46	46.88	16.41	L1	10	20.46
1.202000	25.77	46.00	20.23	L1	10	15.77
1.270000	24.17	46.00	21.83	L1	10	14.17
2.374000	24.33	46.00	21.67	L1	10	14.33
9.950000	28.13	50.00	21.87	L1	10	18.13



## AC Input Port/ Voltage: 240V/60Hz

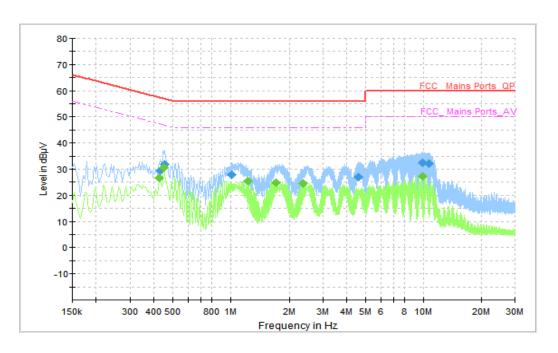


Figure A.2.2 Conducted Emission( Charging Mode )

## Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.430000	29.49	57.25	27.76	N	10	19.49
0.454000	31.89	56.80	24.91	N	10	21.89
1.014000	27.88	56.00	28.12	N	10	17.88
4.602000	27.00	56.00	29.00	L1	10	17.00
9.958000	32.42	60.00	27.58	N	10	22.42
10.670000	32.10	60.00	27.90	N	10	22.10

## Final\_Result\_AVG

Frequency	Average	Limit	Margin	Line	Corr.	P <sub>Mea</sub>
(MHz)	(dBµV)	(dBµV)	(dB)		(dB)	(dBµV)
0.426000	26.68	47.33	20.65	L1	10	16.68
0.450000	30.62	46.88	16.25	L1	10	20.62
1.226000	25.51	46.00	20.49	L1	10	15.51
1.706000	24.91	46.00	21.09	L1	10	14.91
2.374000	24.62	46.00	21.38	L1	10	14.62
9.914000	27.20	50.00	22.80	L1	10	17.20

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