



TEST REPORT

No.I21N02089-EMC

for

TCL Communication Ltd.

MOVEAUDIO S180 TRUE WIRELESS IN-EAR NC HEADPHONES

Model Name: TW18

With

Hardware Version: TW18_V1.1, TW18_V1.0

Software Version: TW18_buds_1.0.0.5

FCC ID: 2ACCJB163

Issued Date: 2021-08-03

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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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21N02089-EMC	Rev.0	1st edition	2021-08-03

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

MOVEAUDIO S180 TRUE WIRELESS IN-EAR NC HEADPHONES

Model Name

TW18

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: 2021-07-08

Testing End Date: 2021-07-30

1.6. Signature

Liang yong

(Prepared this test report)

Zhang Yunzhuan

(Reviewed this test report)

Cao Junfei

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.

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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

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

3.1. About EUT

Description MOVEAUDIO S180 TRUE WIRELESS IN-EAR NC

HEADPHONES

Model Name TW18

FCC ID 2ACCJB163
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*	SN or IMEI	HW Version	SW Version	Receive Date
UT02aa	/	Earphones HW Version: TW18_V1.1 Charging Box HW Version: TW18_V1.0	TW18_buds_ 1.0.0.5	2021-07-08

^{*}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	TW18
Manufacturer	TCL Communication Ltd.
AE2	
Model	A152A-090200U-CN1
Manufacturer	Dongguan Aohai Technology Co.,Ltd.
AE3-1	
Model	20.27.007100
Manufacturer	LIANCHUANG
AE3-2	
Model	CDA0000128C2
Manufacturer	SHENGHUA
AE3-3	





Model 20.27.007400 Manufacturer LIANCHUANG

AE4-1

Model ZWD772040V

Manufacturer ZHONGSHAN ZHONGWANGDE NEW ENERGY. TECHNOLOGY Co.,

LTD.

Capacity 760mAh Nominal 3.8V

AE4-2

Model YJ541011

Manufacturer YJ POWER GROUP LIMITED

Capacity 45mAh Nominal 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 20.27.007100 (AE3-1) and 20.27.007400 (AE3-3) are the same except the the colour.

AE2/AE3-2/AE5: Just for test.





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 MOVEAUDIO S180 TRUE WIRELESS IN-EAR NC HEADPHONES with internal antenna weared on the right ear.

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,	C Part 15,	
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)

(= 11 11)	
Temperature	Min. = 15 °C, Max. = 35°C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB;
	1MHz-18000MHz,>90dB
Electrical insulation	>2ΜΩ
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	>2MΩ	
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:	
Р	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 uncertainty	
Radiated Emission	30MHz-1GHz	4.84dB(k=2)	
	1GHz-18GHz	4.68dB(k=2)	
Conducted Emission	150kHz-30MHz	3.00dB(k=2)	

8. <u>Test Facilities Utilized</u>

NO.	NAME	TYPE	SERIES	PRODUCER	CAL. DUE	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	2022.05.27	3 years
5.	LISN	ENV216	102067	R&S	2022.07.15	1 year
6.	Horn Antenna	3117	00066577	ETS-Lindgren	2022.04.02	3 years
7.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2023.05.29	2 years
8.	Software	EMC32	V10.50.40	R&S	1	1

Note: CAL.: Calibration



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 that tune and operate between 30MHz-960MHz. All equipment is placed on the test tabletop 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		

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

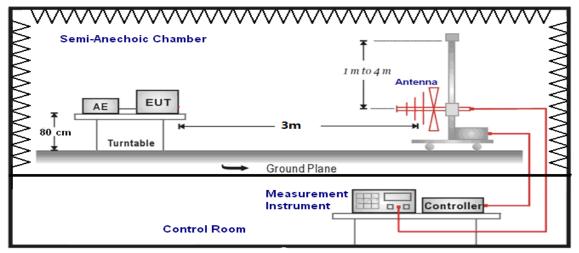
A.1.4 Test Condition

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

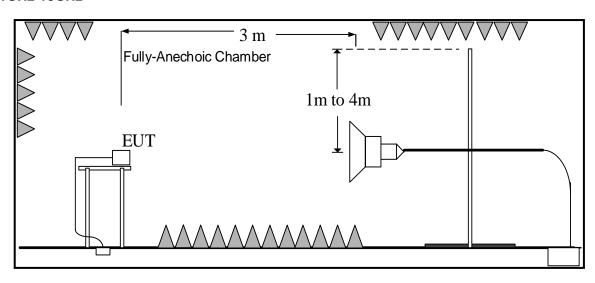


A.1.5 Test set-up:

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_A: Antenna factor of receive antenna

G_{PL}:PathLoss

P_{Mea}: 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	Quasi-Peak	Result (dB μ V/m)	Conclusion
(MHz)	Limit (dB _µ V/m)	UT02aa/Set.1	301101001011
30-88	40.00		
88-216	43.50	Soo A 1 Fig 1	Р
216-960	46.02	See A.1 Fig.1.	P
960-1000	54.00		

Frequency range	Average	Peak	Result (dBμV/m)	Conclusion
(MHz)	Limit (dBμV/m)	Limit (dB _μ V/m)	UT02aa/Set.1	
1000 to 3000	54.00	74.00	See A.1 Fig.2.	Р
3000 to 18000	54.00	74.00	See A.1 Fig.3.	Р

Normal Working

Frequency range	Quasi-Peak	Result (dBμV/m)	Conclusion
(MHz)	Limit (dBμV/m)	UT02aa/Set.1	Conclusion
30-88	40.00		
88-216	43.50	Soc A 1 Fig 4	Р
216-960	46.02	See A.1 Fig.4.	Р
960-1000	54.00		

Frequency range	Average	Peak	Result (dBμV/m)	Conclusion
(MHz)	Limit (dBμV/m)	Limit (dBμV/m)	UT02aa/Set.1	Conclusion
1000 to 3000	54.00	74.00	See A.1 Fig.5.	Р
3000 to 18000	54.00	74.00	See A.1 Fig.6.	Р



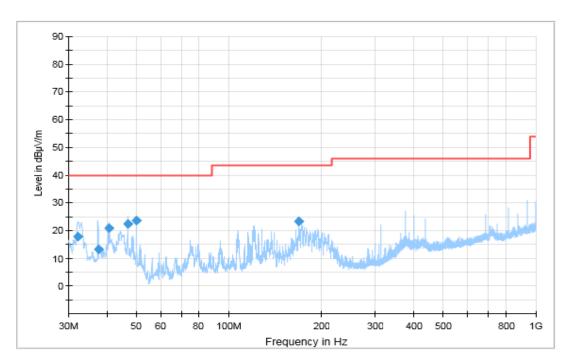


Fig.1. Radiated Emission (Charging Mode, 30MHz to 1GHz)

Final_Result

Frequency	QuasiPeak	Limit	Margin	Pol	ARpl	PMea
(MHz)	(dBµV/m)	(dBµV/m)	(dB)		(dB/m)	(dBµV)
32.175556	17.81	40.00	22.19	V	-25.7	43.51
37.510556	13.39	40.00	26.61	V	-28.0	41.39
40.622222	20.88	40.00	19.12	V	-29.5	50.38
46.887222	22.32	40.00	17.68	V	-34.3	56.62
49.998889	23.76	40.00	16.24	V	-36.5	60.26
168.743889	23.38	43.50	20.12	V	-31.5	54.88



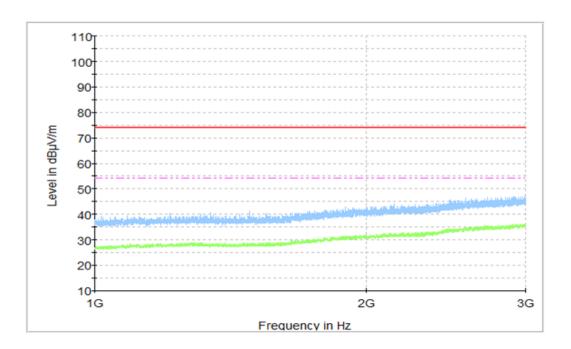


Fig.2. Radiated Emission (Charging Mode, 1GHz to 3GHz)



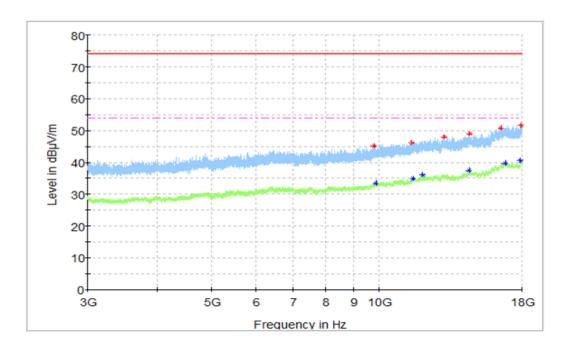


Fig.3. Radiated Emission (Charging Mode, 3GHz to 18GHz)

Final_Results_PK

Fraguanov/MHz)	Peak	Limit	Margin(dD)	Polarity	ARpl	P _{Mea}
Frequency(MHz)	(dBµV/m)	(dBµV/m)	Margin(dB)	Polarity	(dB/m)	(dBµV)
9775.500000	45.19	74.00	28.81	Н	4.8	40.39
11422.500000	46.09	74.00	27.91	Η	6.7	39.39
13085.000000	48.02	74.00	25.98	V	9.2	38.82
14521.000000	49.01	74.00	24.99	V	11.7	37.31
16523.500000	50.87	74.00	23.13	V	15.3	35.57
17926.500000	51.51	74.00	22.49	Η	16.7	34.81

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dB μ V)
9854.500000	33.41	54.00	20.59	Н	5.3	28.11
11490.500000	34.82	54.00	19.18	V	7.0	27.82
11947.000000	36.14	54.00	17.86	V	8.1	28.04
14462.000000	37.54	54.00	16.46	Η	11.8	25.74
16805.500000	39.70	54.00	14.30	V	15.8	23.9
17911.000000	40.44	54.00	13.56	Н	17.3	23.14



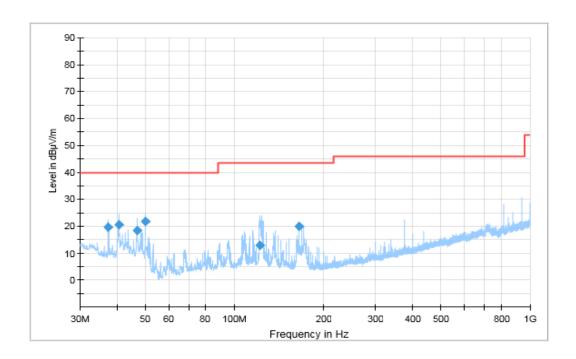


Fig.4. Radiated Emission (Normal Working, 30MHz to 1GHz)

Final_Result

Frequency	QuasiPeak	Limit	Margin	Pol	ARpl	P _{Mea}
(MHz)	(dBµV/m)	(dBµV/m)	(dB)		(dB/m)	(dBµV)
37.496667	19.58	40.00	20.42	V	-28.0	47.58
40.636111	20.61	40.00	19.39	V	-29.5	50.11
46.873333	18.32	40.00	21.68	V	-34.3	52.62
50.012778	21.68	40.00	18.32	V	-36.5	58.18
121.850000	12.84	43.50	30.66	V	-31.3	44.14
165.644444	19.97	43.50	23.53	V	-32.5	52.47



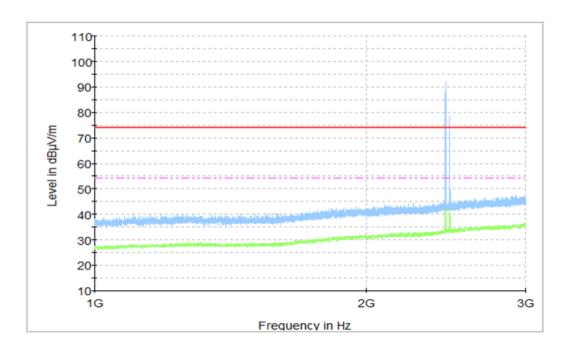


Fig.5. Radiated Emission (Normal Workingz, 1GHz to 3GHz)



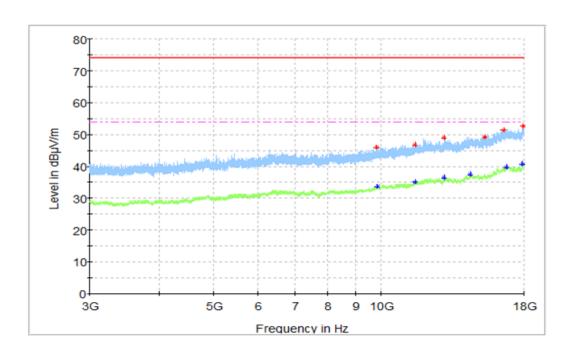


Fig.6. Radiated Emission (Normal Working, 3GHz to 18GHz)

Final_Results_PK

Fraguanov(MHz)	Peak	Limit	Margin(dP) Dale	Dolority	ARpl	P _{Mea}
Frequency(MHz)	(dBµV/m)	(dBµV/m)	Margin(dB)	Polarity	(dB/m)	(dBµV)
9804.000000	45.90	74.00	28.10	Н	4.8	41.10
11492.000000	46.66	74.00	27.34	V	7.0	39.66
12966.000000	48.88	74.00	25.12	V	9.4	39.48
15312.500000	49.12	74.00	24.88	V	12.1	37.02
16549.000000	51.48	74.00	22.52	V	15.3	36.18
17965.500000	52.69	74.00	21.31	V	16.8	35.89

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dB μ V)
9830.000000	33.70	54.00	20.30	Н	5.0	28.70
11490.000000	35.06	54.00	18.94	Η	7.0	28.06
12968.500000	36.45	54.00	17.55	Η	9.4	27.05
14447.000000	37.52	54.00	16.48	Η	11.5	26.02
16739.500000	39.67	54.00	14.33	Н	15.5	24.17
17908.000000	40.73	54.00	13.27	Н	17.4	23.33



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:

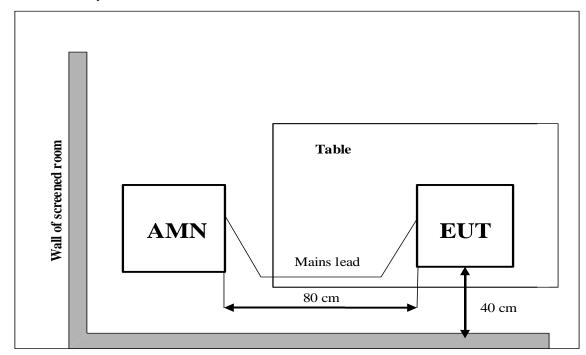
Charging Mode: Put EUT into the charging box and connecting with Charger, enter the charging state.

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)	Conducion
(MHz)	Limit (dBμV)	(dBμV)	UT02aa/Set.1	Conclusion
0.15 to 0.5	66 to 56	56 to 46		
0.5 to 5	56	46	See A.2 Fig.1.	Р
5 to 30	60	50		
	(MHz) 0.15 to 0.5 0.5 to 5	(MHz) Limit (dBμV) 0.15 to 0.5 66 to 56 0.5 to 5 56	(MHz) Limit (dBμV) (dBμV) 0.15 to 0.5 66 to 56 56 to 46 0.5 to 5 56 46	(MHz) Limit (dBμV) (dBμV) UT02aa/Set.1 0.15 to 0.5 66 to 56 56 to 46 0.5 to 5 56 46 See A.2 Fig.1.

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)	(dBμV)	UT02aa/Set.1	Conclusion
0.15 to 0.5	66 to 56	56 to 46		
0.5 to 5	56	46	See A.2 Fig.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

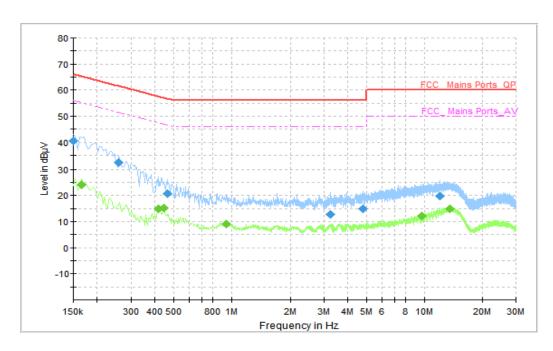


Fig.1. Conducted Emission(Charging Mode)

Final Result QPK

Frequency	QuasiPeak	Limit	Margin	Line	Corr.	P _{Mea}
(MHz)	(dBµV)	(dBµV)	(dB)		(dB)	(dBµV)
0.150000	40.54	66.00	25.46	L1	10	30.54
0.258000	32.37	61.50	29.13	L1	10	22.37
0.466000	20.76	56.59	35.83	L1	10	10.76
3.234000	12.66	56.00	43.34	L1	10	2.66
4.814000	14.74	56.00	41.26	N	10	4.74
12.102000	19.61	60.00	40.39	L1	10	9.61

Final_Result_AVG

Frequency	Average	Limit	Margin	Line	Corr.	P _{Mea}
(MHz)	(dBµV)	(dBµV)	(dB)		(dB)	(dBµV)
0.166000	23.99	55.16	31.17	L1	10	13.99
0.418000	14.93	47.49	32.56	N	10	4.93
0.442000	15.06	47.02	31.96	N	10	5.06
0.938000	8.95	46.00	37.05	N	10	-1.05
9.738000	12.05	50.00	37.95	L1	10	2.05
13.550000	14.79	50.00	35.21	L1	10	4.79



AC Input Port/ Voltage: 240V/60Hz

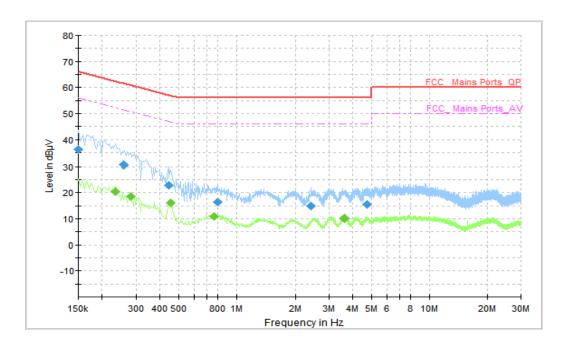


Fig.2. Conducted Emission(Charging Mode)

Final_Result_QPK

Frequency	QuasiPeak	Limit	Margin	Line	Corr.	P _{Mea}
(MHz)	(dBµV)	(dBµV)	(dB)		(dB)	(dBµV)
0.150000	36.42	66.00	29.58	L1	10	26.42
0.258000	30.45	61.50	31.05	L1	10	20.45
0.442000	22.84	57.02	34.19	L1	10	12.84
0.798000	16.43	56.00	39.57	N	10	6.43
2.418000	14.78	56.00	41.22	N	10	4.78
4.730000	15.61	56.00	40.39	N	10	5.61

Final_Result_AVG

Frequency	Average	Limit	Margin	Line	Corr.	P _{Mea}
(MHz)	(dBµV)	(dBµV)	(dB)		(dB)	(dBµV)
0.234000	20.46	52.31	31.84	N	10	10.46
0.282000	18.63	50.76	32.13	N	10	8.63
0.454000	16.13	46.80	30.67	N	10	6.13
0.766000	10.84	46.00	35.16	N	10	0.84
3.598000	10.12	46.00	35.88	N	10	0.12
3.622000	10.20	46.00	35.80	N	10	0.20

END OF REPORT