



TEST REPORT

No.I22N01324-EMC

for

TCL Communication Ltd.

LINKZONE

Model Name: R228t

With

Hardware Version: R228t-V1.0

Software Version: vdfeu_R228t_IZ_02.00_04

FCC ID: 2ACCJB182

Issued Date: 2022-08-25

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:

SAICT, Shenzhen Academy of Information and Communications Technology

Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen,
Guangdong, P. R. China. 518000.

Tel: +86(0)755-33322000, Fax: +86(0)755-33322001

Email: yewu@saict.ac.cn www.saict.ac.cn



No.I22N01324-EMC

REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22N01324-EMC	Rev.0	1st edition	2022-08-22

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	LINKZONE
Model Name	R228t
Applicant's name	TCL Communication Ltd.
Manufacturer's Name	TCL Communication Ltd.

1.2. Test Standards

FCC Part 15, Subpart B (10-1-2020 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: Building G, Shenzhen International Innovation Center, No.1006
Shennan Road, Futian District, Shenzhen, Guangdong, China

1.5. Project data

Testing Start Date: 2022-08-01

Testing End Date: 2022-08-20

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.
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
Contact Nianxiang.jiang
Email nianxiang.jiang@tcl.com
Tel. +86 755 36611621
Fax +86 755 3661 2000-81722

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
Contact Nianxiang.jiang
Email nianxiang.jiang@tcl.com
Tel. +86 755 36611621
Fax +86 755 3661 2000-81722

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT

(AE)

3.1. About EUT

Description	LINKZONE
Model Name	R228t
FCC ID	2ACCJB182
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
UT07aa	353870750200957	R228t-V1.0	vdfeu_R228t_IZ_02.00_04	2022-07-27

*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	USB Cable

AE1-1

Model	TLi021F7
Manufacturer	Veken
Capacity	2150mAh
Nominal Voltage	3.7V

AE1-2

Model	TLi021FA
Manufacturer	TMB
Capacity	2150mAh
Nominal Voltage	3.7 V

AE2-1

Model	UC11EU
Manufacturer	PUAN
PDM	CBA0058AANC5

AE2-2

Model	UC11EU
Manufacturer	Chenyang
PDM	CBA0058AANC7

AE2-3

Model	UC11EU
Manufacturer	PUAN
PDM	CBA0058AAUC5



AE2-4

Model	UC11US
Manufacturer	PUAN
PDM	CBA0058AGNC5

AE2-5

Model	UC11US
Manufacturer	Chenyang
PDM	CBA0058AGTC7

AE3

Model	CDA0000177C1
Manufacturer	JUWEI

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

*AE Label: To distinguish the type and number of AE

AE: ancillary equipment

AE2: The circuit boards of AE2-1、AE2-3 and AE2-4 are the same, the circuit boards of AE2-2 and AE2-5 are the same.



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3.4. EUT Set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT+AE1-1+AE2-4+AE3	
Set.2	EUT+AE1-1+AE2-5+AE3	

3.5. General Description

The Equipment Under Test (EUT) is a model of LINKZONE with internal antenna.

It supports GSM 900/1800MHz, WCDMA Bands 1/3/8, and LTE Bands 1/3/7/8/20/28/32/38/40/41.

It has Wi-Fi functions.

It consists of normal options: Lithium Battery, Charger and Cable.

Since subscribers often use EUT during charging, EUT is to be tested in accordance with “Fixed use” besides in accordance with “Portable use”.

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.

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	(10-1-2020 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

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	>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: 15~35℃
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	4.86dB(k=2)
	1GHz-18GHz	4.82dB(k=2)
Conducted Emission	150kHz-30MHz	2.62dB(k=2)

8. MEASURING APPARATUS UTILIZED

No.	Name	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1.	Test Receiver	ESR7	101676	R&S	2022.11.24	1 year
2.	Test Receiver	ESCI	100702	R&S	2023.01.12	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2023.01.12	1 year
4.	BiLog Antenna	3142E	0224831	ETS-Lindgren	2024.05.27	3 years
5.	Horn Antenna	3117	00066585	ETS-Lindgren	2025.03.15	3 years
6.	LISN	ENV216	102067	R&S	2023.07.14	1 year
7.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2023.05.29	2 years
8.	Software	EMC32	V10.50.40	R&S	/	/

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 meter 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:

Charging: At the beginning of measurement, the battery is completely discharged. The battery and charger are installed so that the EUT works well and is in charging state.

The EUT was tested while operating in licensed band receiver mode. All licensed band receivers that tune in the range of 30MHz-960MHz, as listed in Section 3.1, 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

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

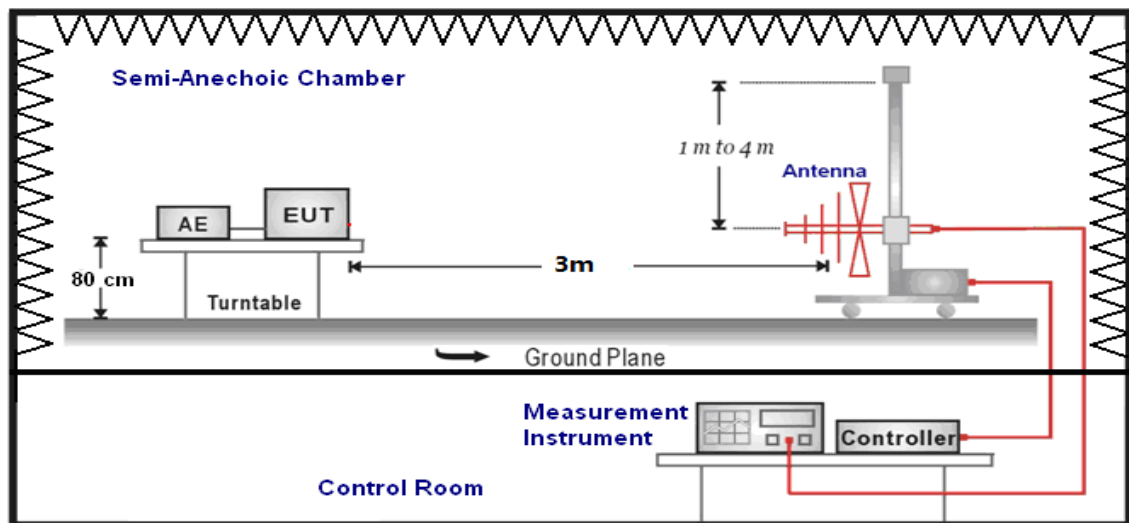
*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

A.1.4 Test Condition

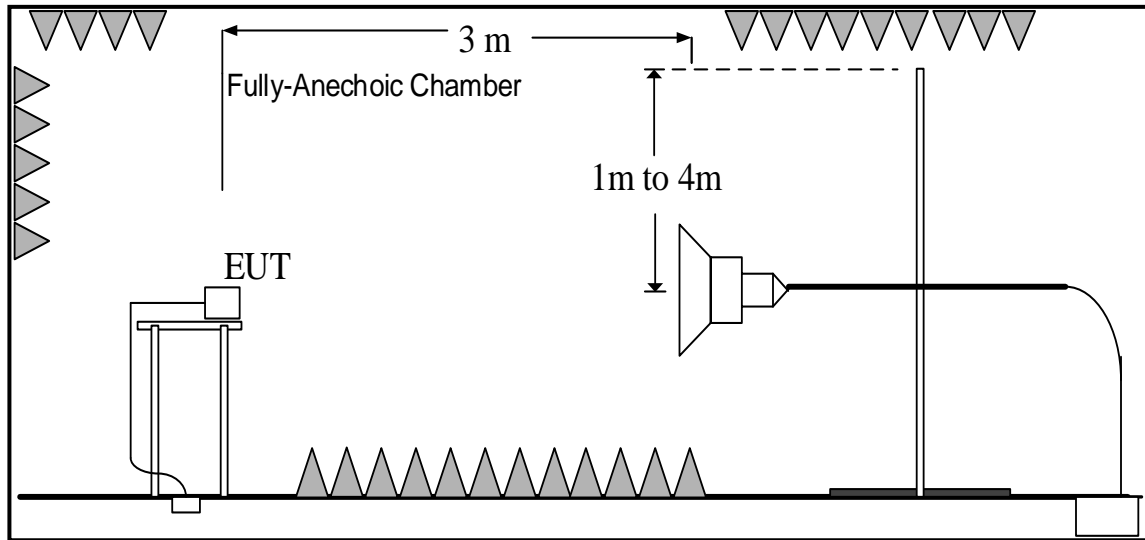
Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

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

Charging

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT07aa/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
			UT07aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.2.	P
18000 to 26500	54.00	74.00	See Figure A.1.3.	P

Charging

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT07aa/Set.2	
30-88	40.00	See Figure A.1.4.	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
			UT07aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.5.	P
18000 to 26500	54.00	74.00	See Figure A.1.6.	P

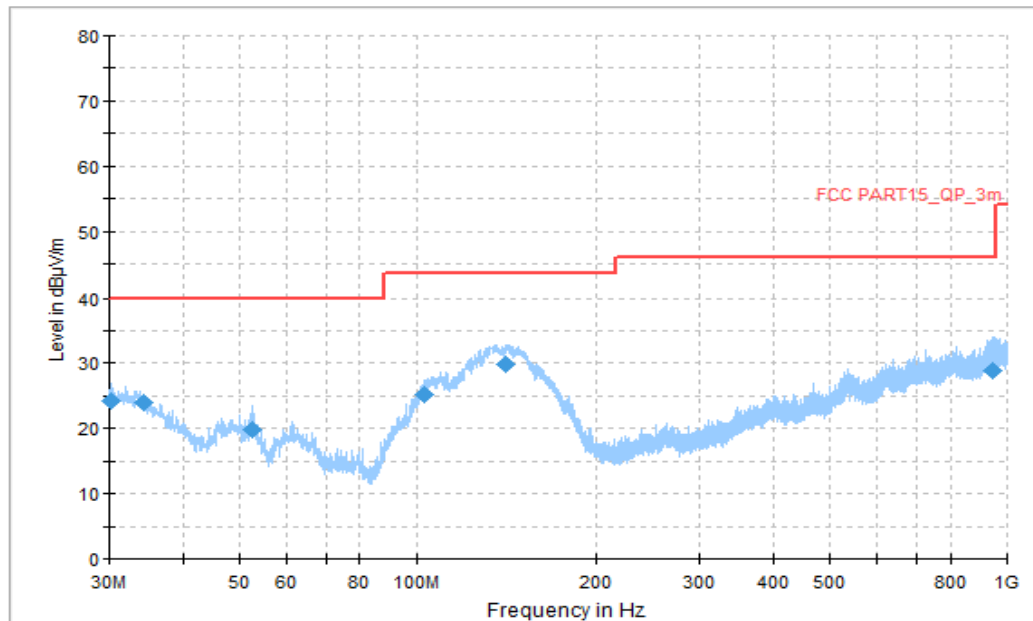


Figure A.1.1. Radiated Emission (Charging, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
30.161667	24.14	40.00	15.86	H	-13	37.14
34.365000	24.03	40.00	15.97	H	-15	39.03
52.633333	19.87	40.00	20.13	V	-22	41.87
103.019444	25.10	43.52	18.42	V	-20	45.10
140.526111	29.86	43.52	13.66	V	-20	49.86
944.710000	28.86	46.02	17.16	V	1	27.86

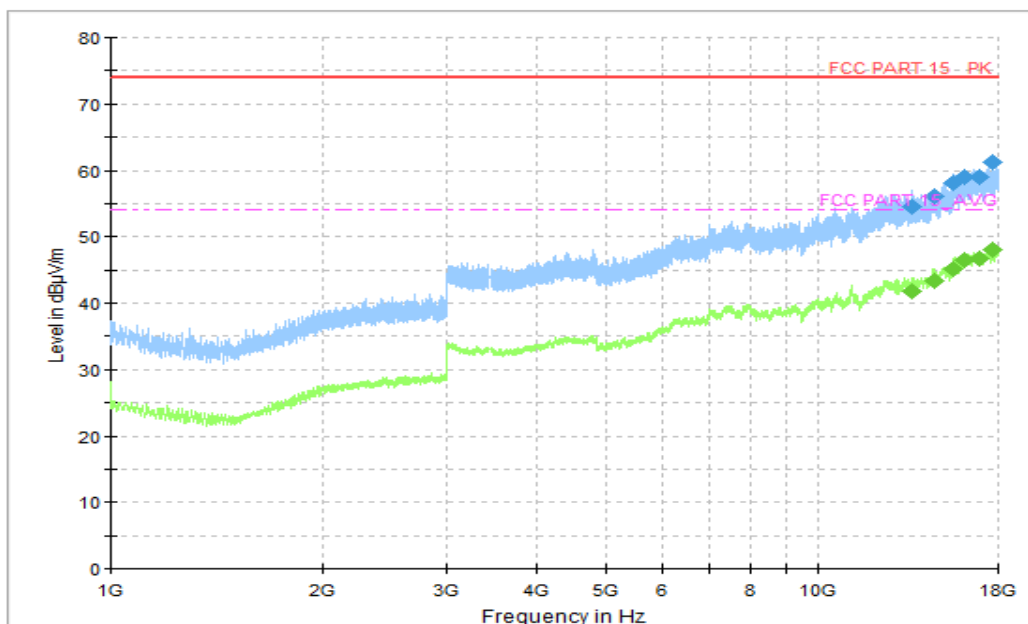


Figure A.1.2. Radiated Emission (Charging, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13608.000000	54.45	74.00	19.55	V	18	36.45
14604.500000	56.17	74.00	17.83	H	19	37.17
15571.000000	58.02	74.00	15.98	H	20	38.02
16157.750000	58.99	74.00	15.01	H	22	36.99
16966.500000	59.01	74.00	14.99	V	23	36.01
17689.750000	61.18	74.00	12.82	V	24	37.18

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13608.000000	41.87	54.00	12.13	V	18	23.87
14604.500000	43.46	54.00	10.54	H	19	24.46
15571.000000	45.25	54.00	8.75	H	20	25.25
16157.750000	46.48	54.00	7.52	H	22	24.48
16966.500000	46.60	54.00	7.40	H	23	23.6
17689.750000	47.96	54.00	6.04	H	24	23.96

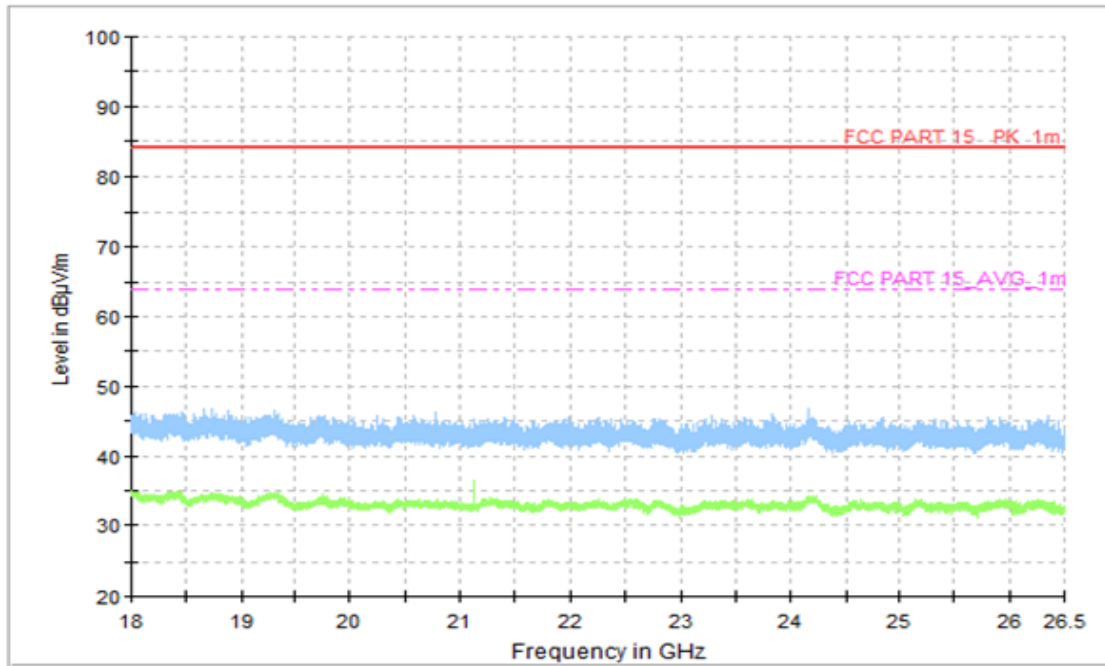


Figure A.1.3. Radiated Emission (Charging, 18GHz to 26.5GHz)

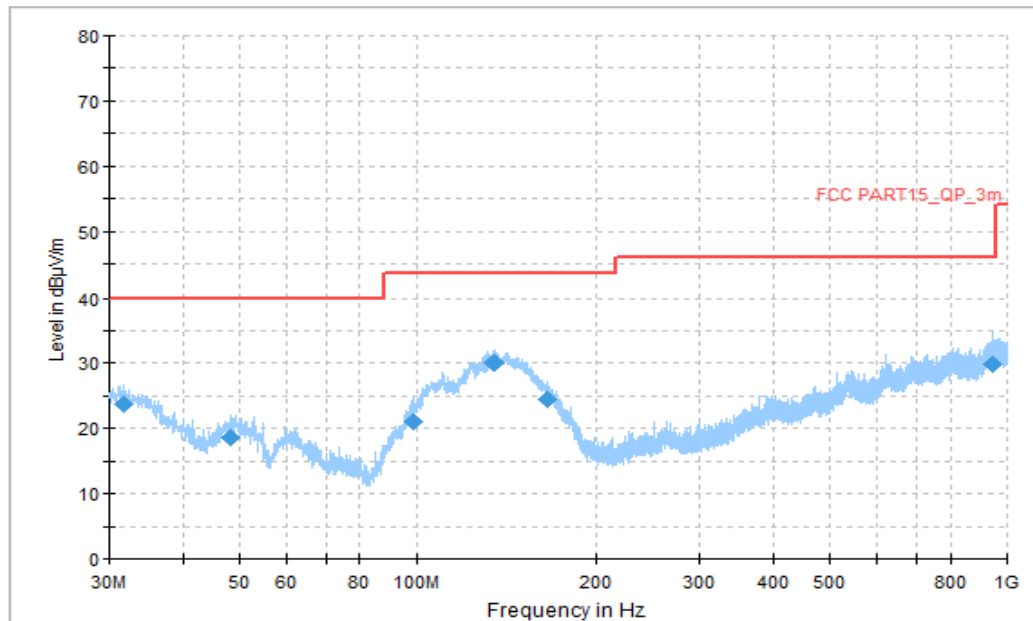


Figure A.1.4. Radiated Emission (Charging, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
31.832222	23.78	40.00	16.22	V	-14	37.78
48.376111	18.62	40.00	21.38	V	-22	40.62
98.277222	21.10	43.52	22.42	V	-20	41.10
134.328889	30.18	43.52	13.34	V	-20	50.18
165.261111	24.44	43.52	19.08	V	-18	42.44
945.949444	29.96	46.02	16.06	H	1	28.96

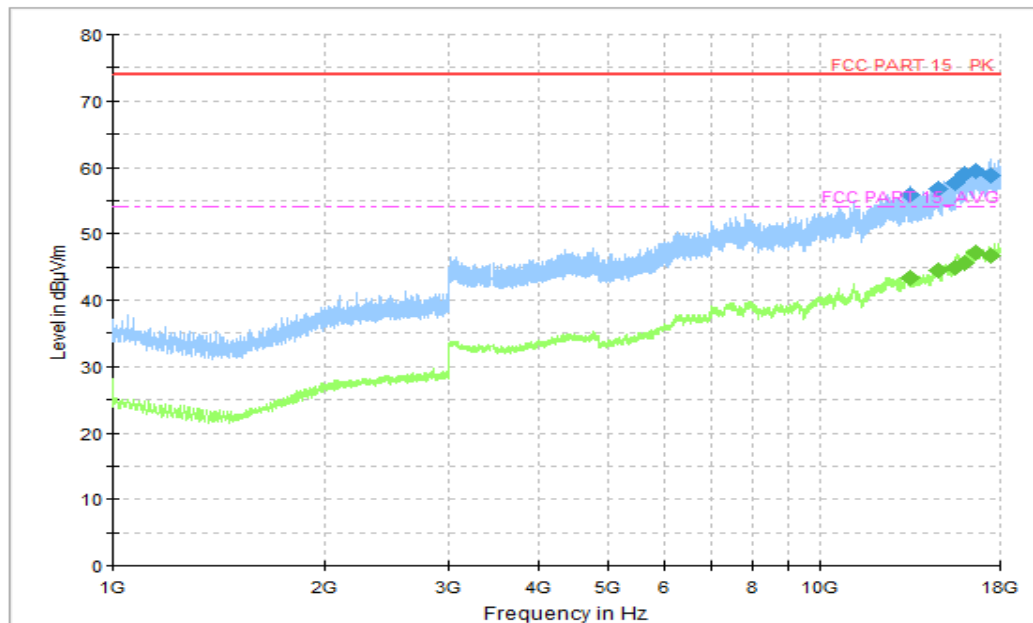


Figure A.1.5. Radiated Emission (Charging, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13378.750000	55.82	74.00	18.18	V	18	37.82
14692.250000	56.73	74.00	17.27	H	19	37.73
15566.250000	57.61	74.00	16.39	H	20	37.61
16010.500000	59.07	74.00	14.93	H	21	38.07
16613.500000	59.48	74.00	14.52	V	23	36.48
17424.750000	58.69	74.00	15.31	V	24	34.69

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13378.750000	43.34	54.00	10.66	V	18	25.34
14692.250000	44.39	54.00	9.61	H	19	25.39
15566.250000	44.99	54.00	9.01	H	20	24.99
16010.500000	45.65	54.00	8.35	H	21	24.65
16613.500000	47.09	54.00	6.91	H	23	24.09
17424.750000	46.61	54.00	7.39	H	24	22.61

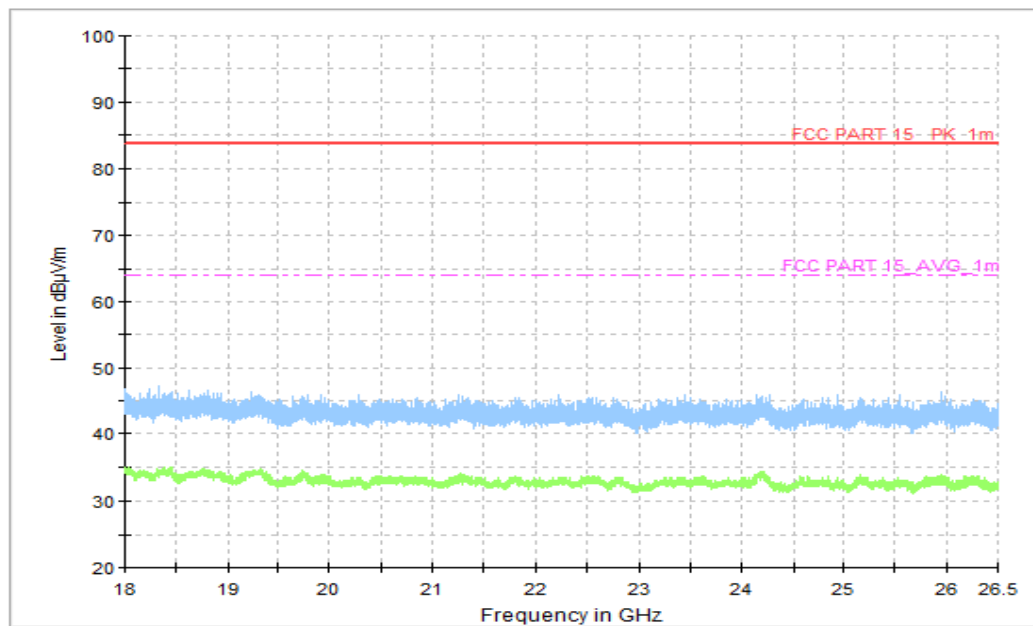


Figure A.1.6. Radiated Emission (Charging, 18GHz to 26.5GHz)

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.

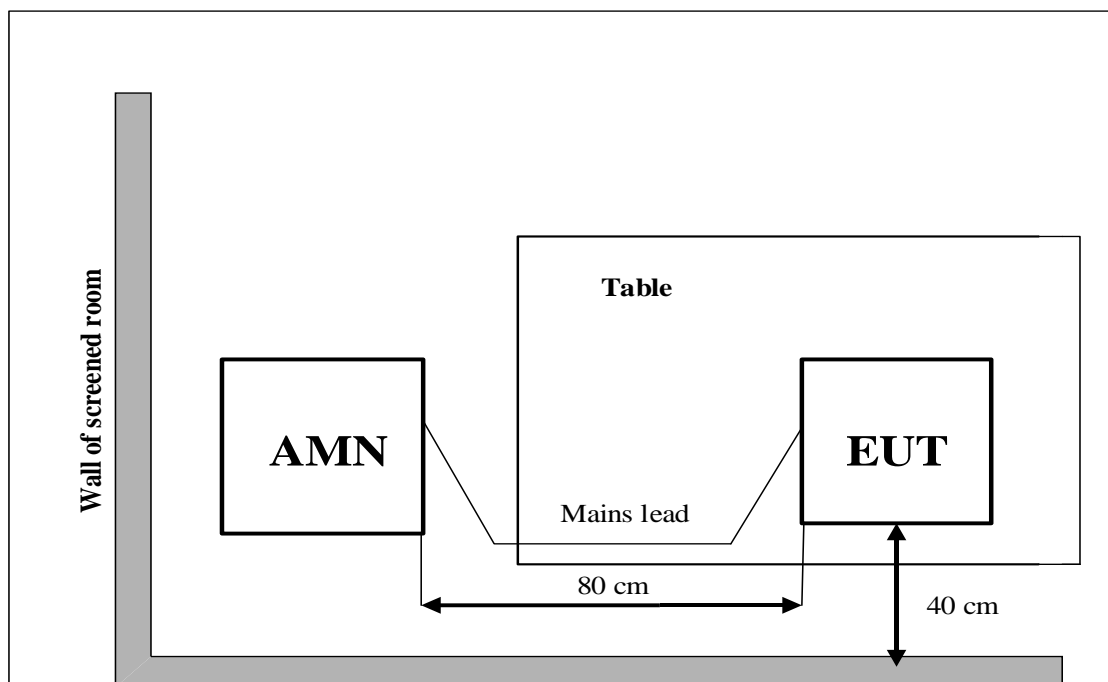
A.2.2 EUT Operating Mode:

Charging: At the beginning of measurement, the battery is completely discharged. The battery and charger are installed so that the EUT works well and is in 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.2.4 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.

Charging

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT07aa/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.				

Charging

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT07aa/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.				

Charging

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT07aa/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.				

Charging

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT07aa/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

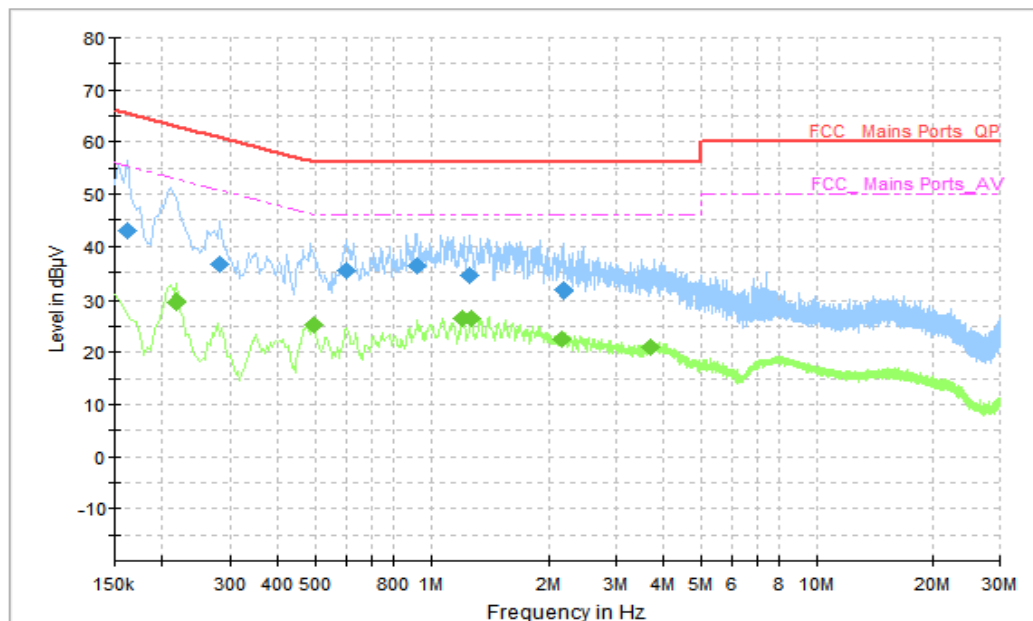


Figure A.2.1. Conducted Emission(Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.162000	42.98	65.36	22.38	N	10	32.98
0.282000	36.66	60.76	24.09	N	10	26.66
0.602000	35.48	56.00	20.52	N	10	25.48
0.922000	36.38	56.00	19.62	N	10	26.38
1.258000	34.56	56.00	21.44	N	10	24.56
2.194000	31.54	56.00	24.46	N	10	21.54

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.218000	29.66	52.90	23.23	N	10	19.66
0.494000	25.31	46.10	20.79	N	10	15.31
1.210000	26.52	46.00	19.48	N	10	16.52
1.274000	26.44	46.00	19.56	N	10	16.44
2.162000	22.61	46.00	23.39	N	10	12.61
3.710000	20.87	46.00	25.13	N	10	10.87

AC Input Port/ Voltage: 120V/60Hz

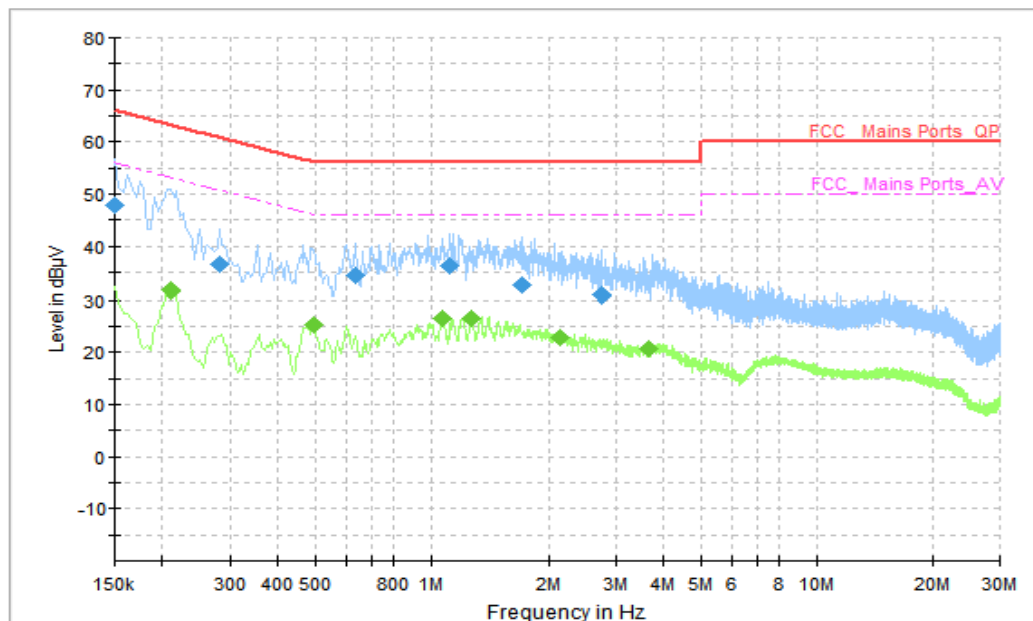


Figure A.2.2. Conducted Emission(Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.150000	47.89	66.00	18.11	N	10	37.89
0.282000	36.70	60.76	24.06	N	10	26.7
0.634000	34.41	56.00	21.59	N	10	24.41
1.122000	36.25	56.00	19.75	N	10	26.25
1.710000	32.72	56.00	23.28	N	10	22.72
2.754000	30.70	56.00	25.30	N	10	20.70

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.210000	31.58	53.21	21.62	N	10	21.58
0.494000	25.34	46.10	20.76	N	10	15.34
1.066000	26.52	46.00	19.48	N	10	16.52
1.274000	26.40	46.00	19.60	N	10	16.40
2.154000	22.91	46.00	23.09	N	10	12.91
3.654000	20.57	46.00	25.43	N	10	10.57

AC Input Port/ Voltage: 240V/60Hz

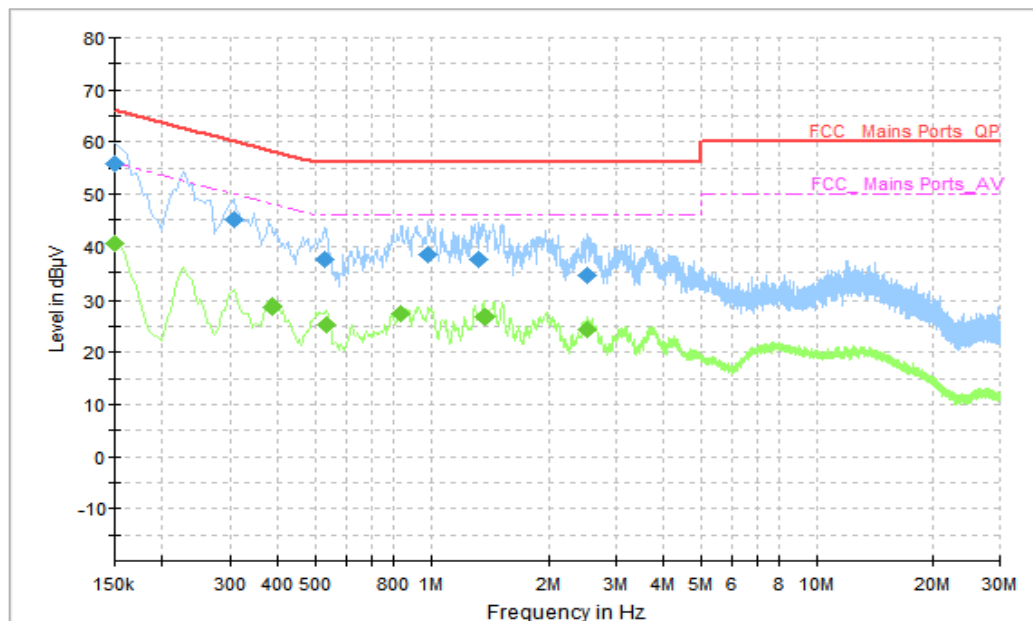


Figure A.2.3. Conducted Emission(Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.150000	55.80	66.00	10.20	N	10	45.80
0.306000	45.17	60.08	14.91	N	10	35.17
0.526000	37.63	56.00	18.37	N	10	27.63
0.986000	38.47	56.00	17.53	N	10	28.47
1.330000	37.59	56.00	18.41	N	10	27.59
2.526000	34.41	56.00	21.59	N	10	24.41

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.150000	40.40	56.00	15.60	N	10	30.40
0.386000	28.49	48.15	19.65	N	10	18.49
0.534000	25.33	46.00	20.67	N	10	15.33
0.838000	27.27	46.00	18.73	N	10	17.27
1.374000	26.71	46.00	19.29	N	10	16.71
2.526000	24.38	46.00	21.62	N	10	14.38

AC Input Port/ Voltage: 240V/60Hz

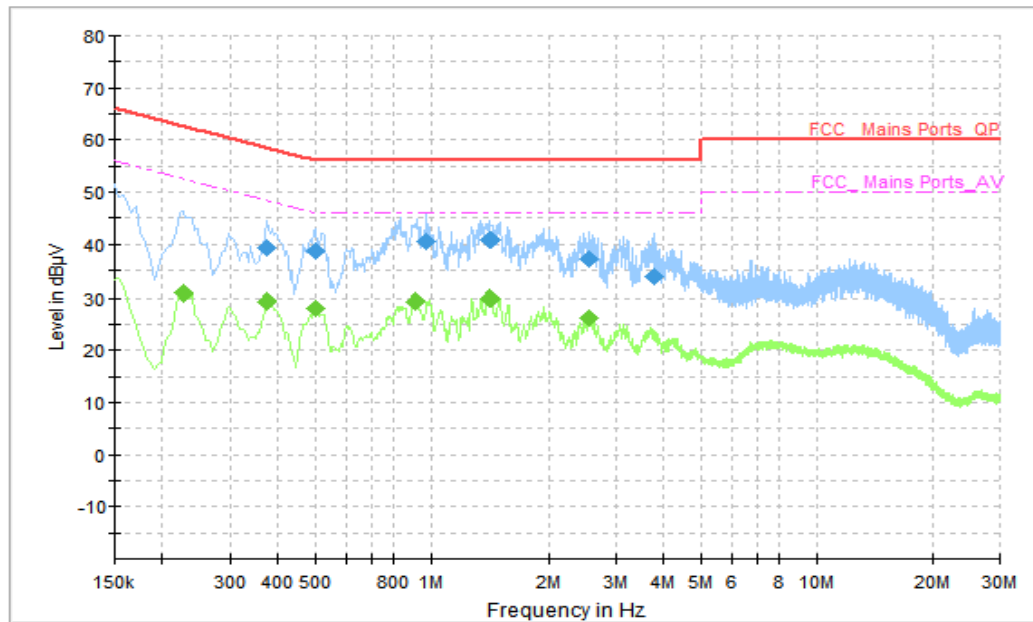


Figure A.2.4. Conducted Emission(Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.374000	39.46	58.41	18.95	N	10	29.46
0.498000	38.80	56.03	17.24	N	10	28.8
0.974000	40.60	56.00	15.40	N	10	30.60
1.422000	40.79	56.00	15.21	N	10	30.79
2.550000	37.10	56.00	18.90	N	10	27.1
3.754000	33.93	56.00	22.07	N	10	23.93

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.226000	30.89	52.60	21.70	N	10	20.89
0.374000	29.11	48.41	19.30	N	10	19.11
0.502000	28.11	46.00	17.89	N	10	18.11
0.906000	29.21	46.00	16.79	N	10	19.21
1.422000	29.90	46.00	16.10	N	10	19.9
2.558000	26.22	46.00	19.78	N	10	16.22

END OF REPORT