



TEST REPORT

No.I23N01645-EMC

for

unitech electronics co., ltd.

Rugged Tablet

Model Name: RT112

With

Hardware Version: V1.2

Software Version: IRIS_V03.29b01_20230920

FCC ID: HLERT112BWN

Issued Date: 2023-12-19

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.I23N01645-EMC

REPORT HISTORY

Report Number	Revision	Description	Issue Date
I23N01645-EMC	Rev.0	1st edition	2023-12-19

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	Rugged Tablet
Model Name	RT112
Applicant's name	unitech electronics co., ltd.
Manufacturer's Name	unitech electronics co., 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

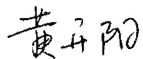
Address: EMC Lab,Building G, Shenzhen International Innovation Center,
No.1006 Shennan Road, Futian District, Shenzhen, Guangdong,
China

1.5. Project data

Testing Start Date: 2023-10-10

Testing End Date: 2023-12-12

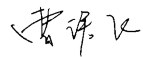
1.6. Signature



Huang Kaiyang
(Prepared this test report)



Huang Yuqing
(Reviewed this test report)



Cao Junfei
(Approved this test report)



2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: unitech electronics co., ltd.
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2.2. Manufacturer Information

Company Name: unitech electronics co., ltd.
Address: 5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City
231028 , Taiwan
Contact Ben Chiang
Email BenC@tw.ute.com
Tel. 886-2-8912-1122
Fax 886-2-89121391

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT

(AE)

3.1. About EUT

Description	Rugged Tablet
Model Name	RT112
FCC ID	HLERT112BWN
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
UT04aa	A20235230127	V1.2	IRIS_V03.29b01_20230920	2023-10-10
UT05aa	A20235230035	V1.2	IRIS_V03.29b01_20230920	2023-10-10

*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	Data Cable

Aa01a, Aa02a

AE1-1

Model	1400-900077G
Manufacturer	Jiade Energy Technology(Zhuhai)Co.,Ltd
Capacity	8800mAh
Nominal Voltage	3.85 V

AE2-1

Model	ADP-45HG B
Manufacturer	DELTA ELECTRONICS,INC.

AE3-1

Model	/
Manufacturer	/

*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



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3.4. EUT Set-ups

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



3.5. General Description

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

It has NFC, Camera, USB memory, Bluetooth, Wi-Fi functions.

It consists of normal options: Battery, Charge.

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	(10-1-2021 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

Shielded 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> 60 dB; 1MHz-18000MHz>90 dB
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	2024.11.22	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	0224831	ETS-Lindgren	2024.05.27	3 years
5.	Horn Antenna	3117	00066577	ETS-Lindgren	2025.04.17	3 years
6.	LISN	ENV216	102067	R&S	2024.09.05	1 year
7.	Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2025.05.28	2 years
8.	Software	EMC32	V10.50.40	R&S	/	/



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9. TEST ACCESSORY UTILIZED

No.	Name	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1.	PC	ThinkPad T480	PF-13LW0C	Lenovo	/	/
2.	Printer	P1008	VNF6C12491	HP	/	/
3.	Mouse	MOEUUOA	44NY517	Lenovo	/	/

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:

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.

Data Transfer: The model of the PC is Lenovo ThinkPad T480, and the serial number of the PC is PF-13LW0C. The EUT is connected to a PC for transmitting data. The software is used to let the PC keep on copying data to EUT or USB flash disk reading and erasing the data after copy action was finished.

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

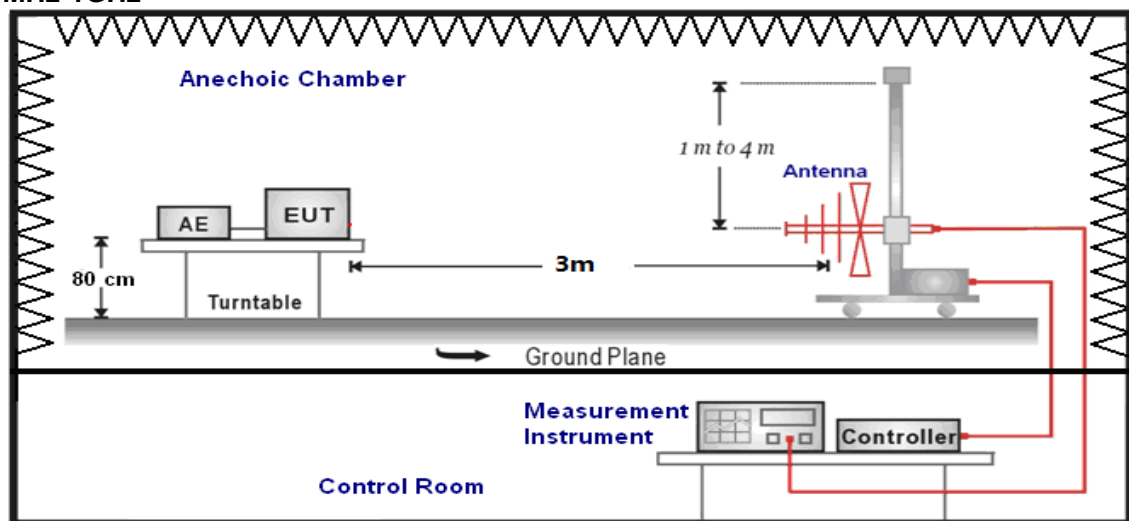
*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

A.1.4 Test Condition

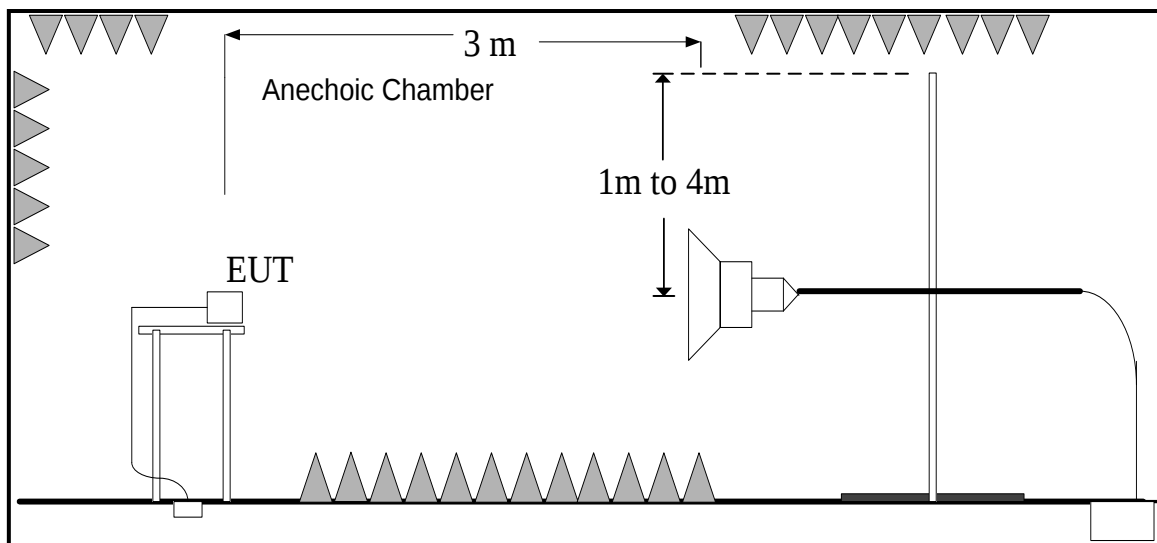
Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

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
		UT04aa/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
			UT04aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.2.	P
18000 to 26500	63.54	83.54	See Figure A.1.3.	
26500 to 40000	63.54	83.54	See Figure A.1.4.	

Data Transfer

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT04aa/Set.2	
30-88	40.00	See Figure A.1.5.	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
			UT04aa/Set.2	
1000 to 18000	54.00	74.00	See Figure A.1.6.	P
18000 to 26500	63.54	83.54	See Figure A.1.7.	
26500 to 40000	63.54	83.54	See Figure A.1.8.	

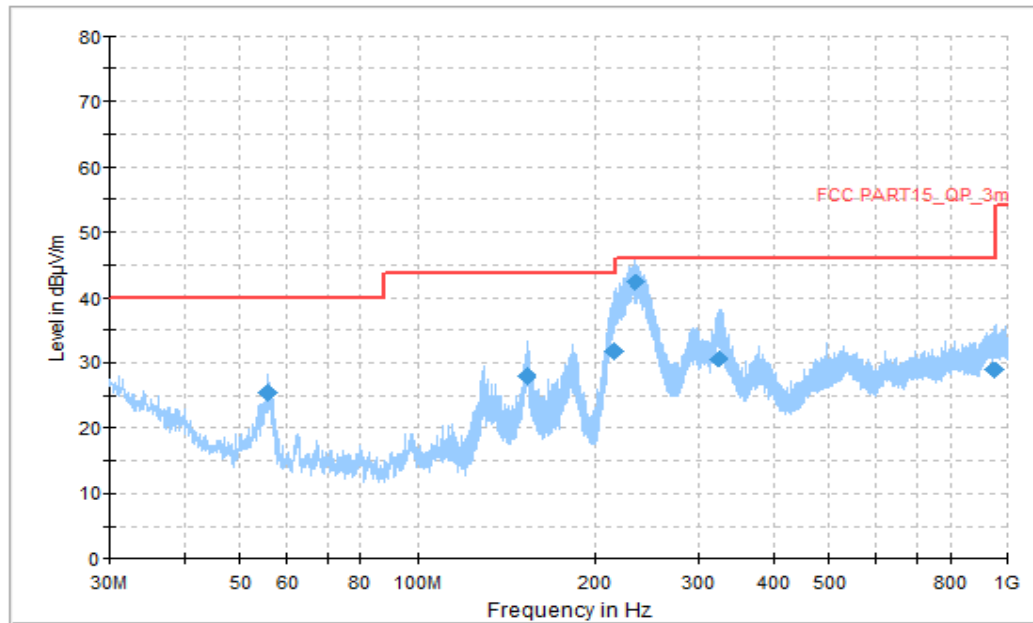


Figure A.1.1. Radiated Emission (Camera, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
55.705000	25.47	40.00	14.53	V	-21	46.47
152.705000	27.95	43.52	15.57	V	-16	43.95
214.677222	34.86	43.52	8.66	V	-16	50.86
234.346667	42.23	46.02	3.79	H	-14	56.23
324.664444	30.46	46.02	15.56	H	-11	41.46
951.176667	28.80	46.02	17.22	H	3	25.80

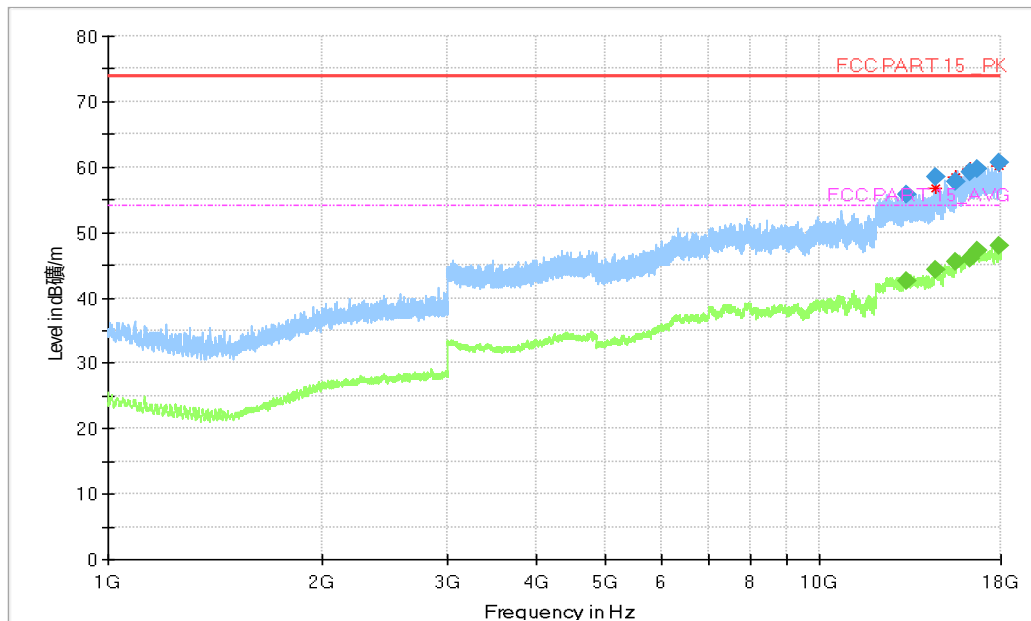


Figure A.1.2. Radiated Emission (Camera, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
13225.250000	55.73	74.00	18.27	H	18	37.73
14538.750000	58.44	74.00	15.56	V	19	39.44
15577.750000	57.84	74.00	16.16	H	20	37.84
16243.000000	59.09	74.00	14.91	V	22	37.09
16651.250000	59.75	74.00	14.25	V	22	37.75
17888.500000	60.58	74.00	13.42	H	25	35.58

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
13225.250000	42.69	54.00	11.31	H	18	24.69
14538.750000	44.19	54.00	9.81	V	19	25.19
15577.750000	45.42	54.00	8.58	V	20	25.42
16243.000000	46.11	54.00	7.89	H	22	24.11
16651.250000	47.24	54.00	6.76	V	22	25.24
17888.500000	47.93	54.00	6.07	H	25	22.93

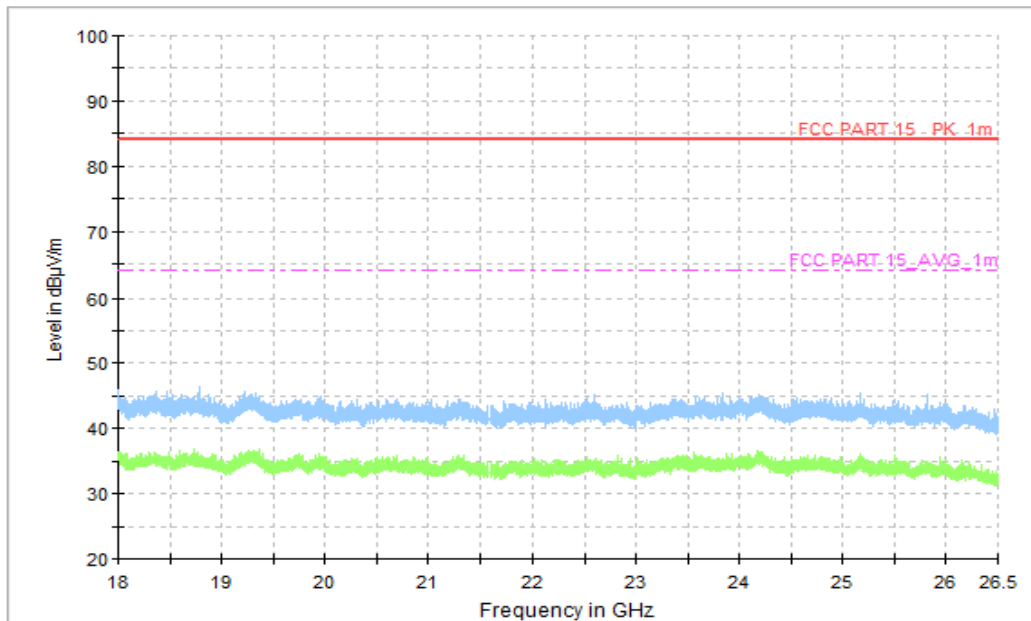


Figure A.1.3. Radiated Emission (Camera , 18GHz to 26.5GHz)

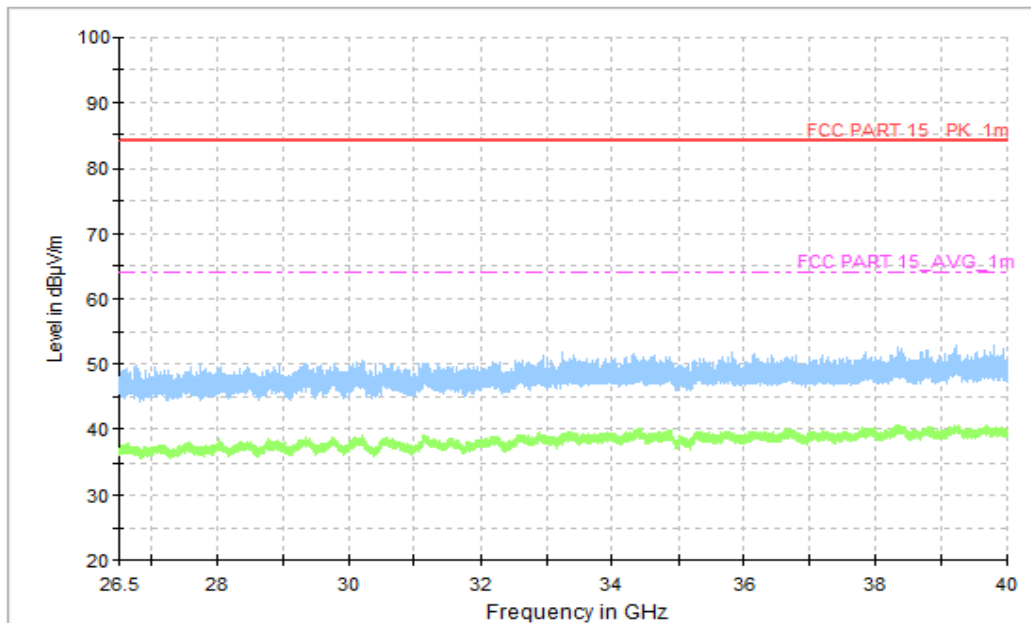


Figure A.1.4. Radiated Emission (Camera , 26.5GHz to 40GHz)

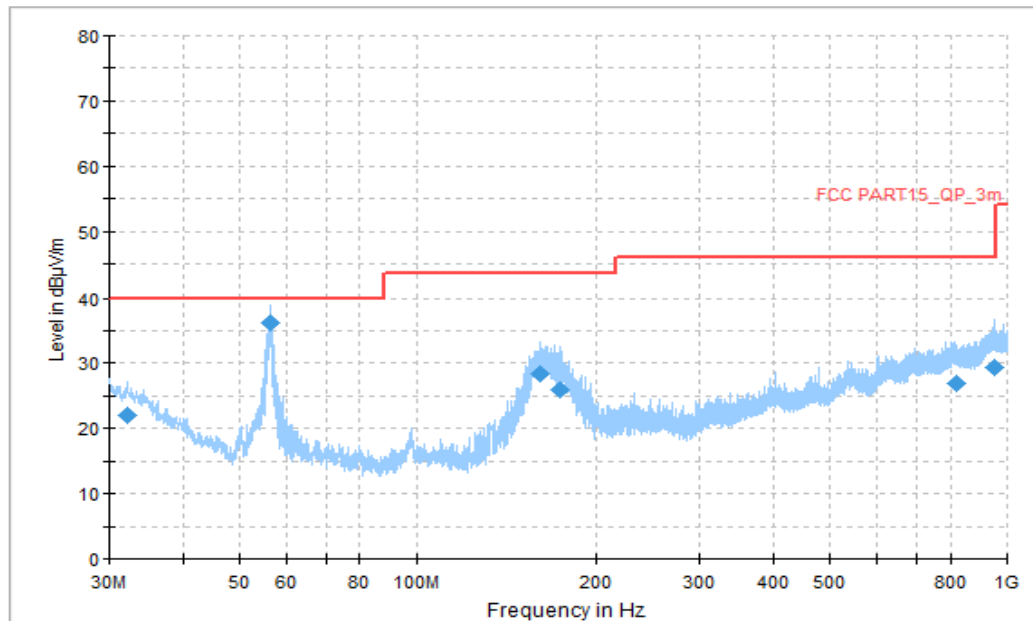


Figure A.1.5. Radiated Emission (Data Transfer, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
32.101667	22.13	40.00	17.87	V	-12	34.13
56.405556	36.14	40.00	3.86	V	-21	57.14
161.057778	28.26	43.52	15.26	V	-16	44.26
174.045000	25.99	43.52	17.53	H	-17	42.99
818.825556	26.88	46.02	19.14	V	1	25.88
953.493889	29.28	46.02	16.74	H	3	26.28

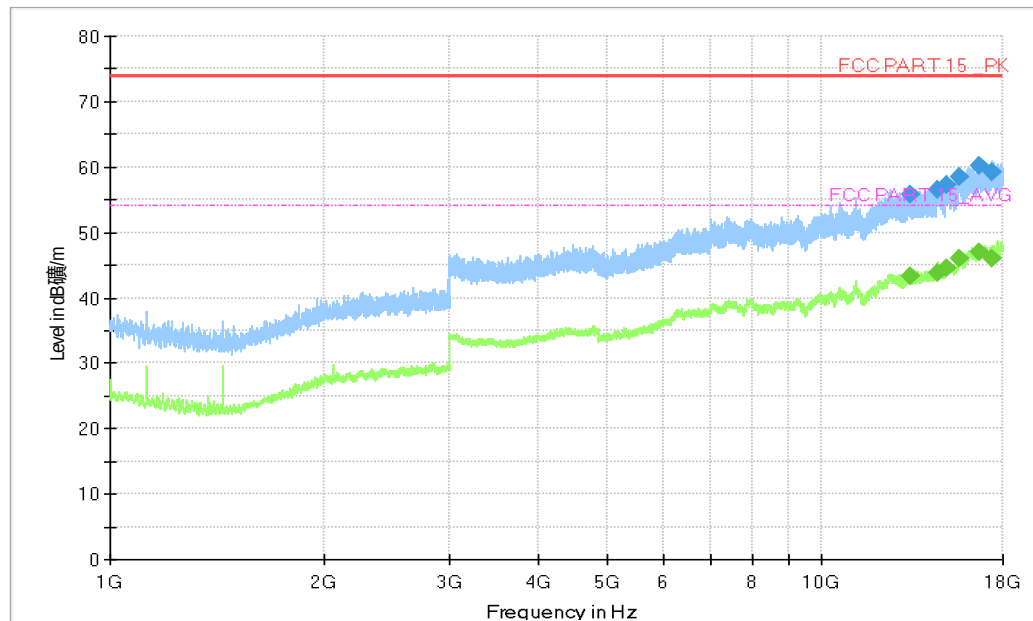


Figure A.1.6. Radiated Emission (Data Transfer, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
13378.000000	55.70	74.00	18.30	V	18	37.70
14602.000000	56.40	74.00	17.60	H	19	37.4
15036.250000	57.28	74.00	16.72	V	19	38.28
15643.750000	58.59	74.00	15.41	H	21	37.59
16681.250000	60.17	74.00	13.83	V	22	38.17
17360.500000	59.14	74.00	14.86	V	23	36.14

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
13378.000000	43.42	54.00	10.58	V	18	25.42
14602.000000	43.71	54.00	10.29	H	19	24.71
15036.250000	44.64	54.00	9.36	V	19	25.64
15643.750000	46.04	54.00	7.96	V	21	25.04
16681.250000	47.04	54.00	6.96	V	22	25.04
17360.500000	46.06	54.00	7.94	H	23	23.06

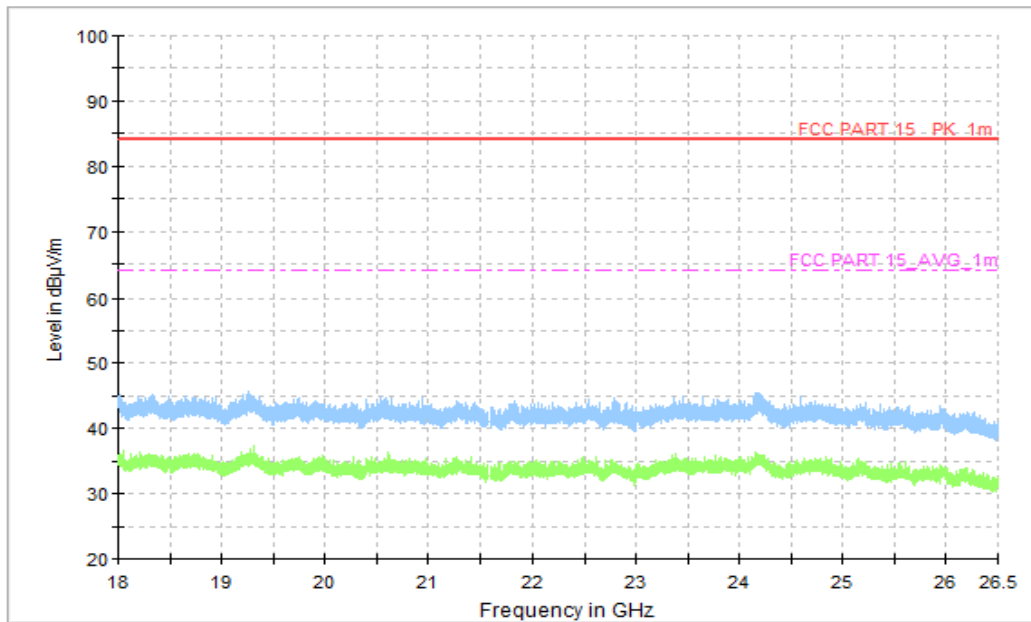


Figure A.1.7. Radiated Emission (Data Transfer, 18GHz to 26.5GHz)

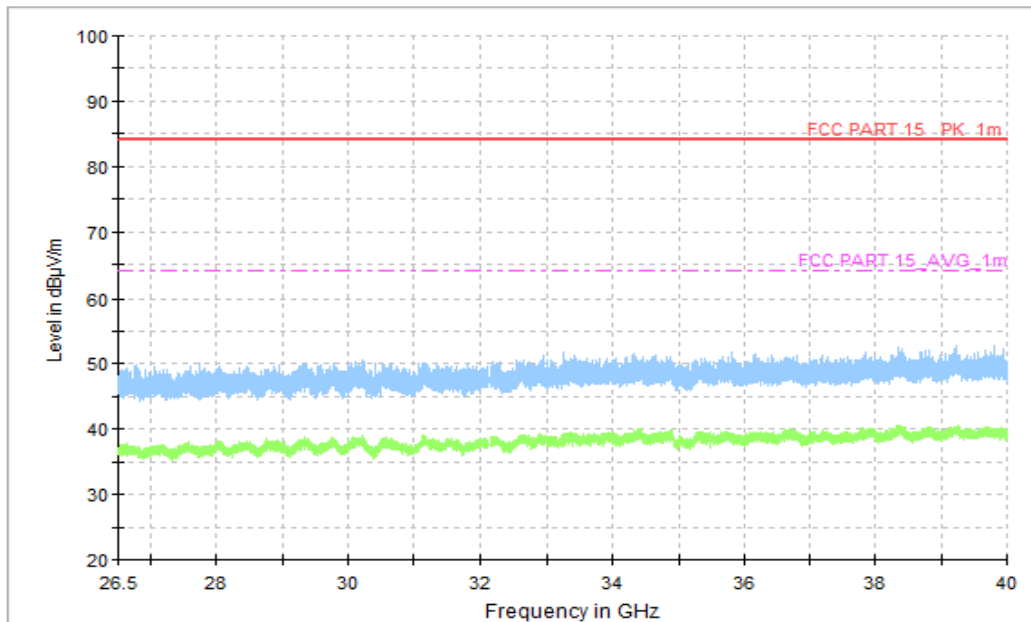


Figure A.1.8. Radiated Emission (Data Transfer, 26.5GHz to 40GHz)

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:

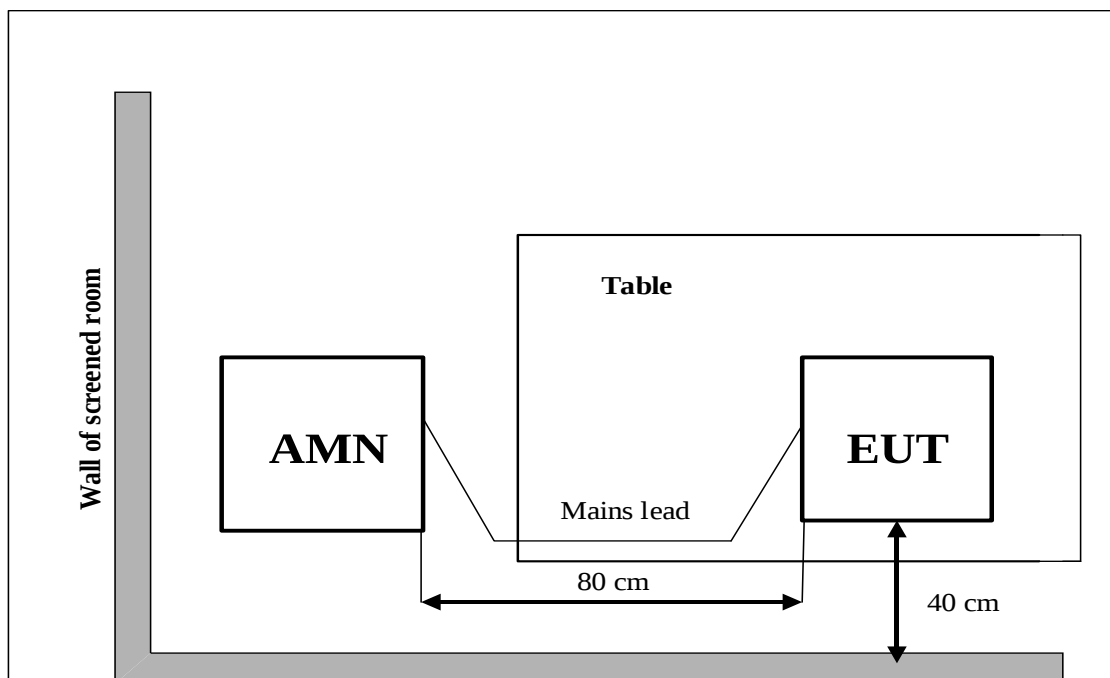
Camera: At the beginning of measurement, the battery is completely discharged. The battery and charger are installed so that the EUT works well and keeping on taking photos.

Data Transfer: The model of the PC is Lenovo ThinkPad T480, and the serial number of the PC is PF-13LW0C. The EUT is connected to a PC for transmitting data. The software is used to let the PC keep on copying data to EUT or USB flash disk reading and erasing the data after copy action was finished.

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
			UT05aa/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: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT05aa/Set.1	
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.				

Data Transfer

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT05aa/Set.2	
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.				

Data Transfer

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT05aa/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

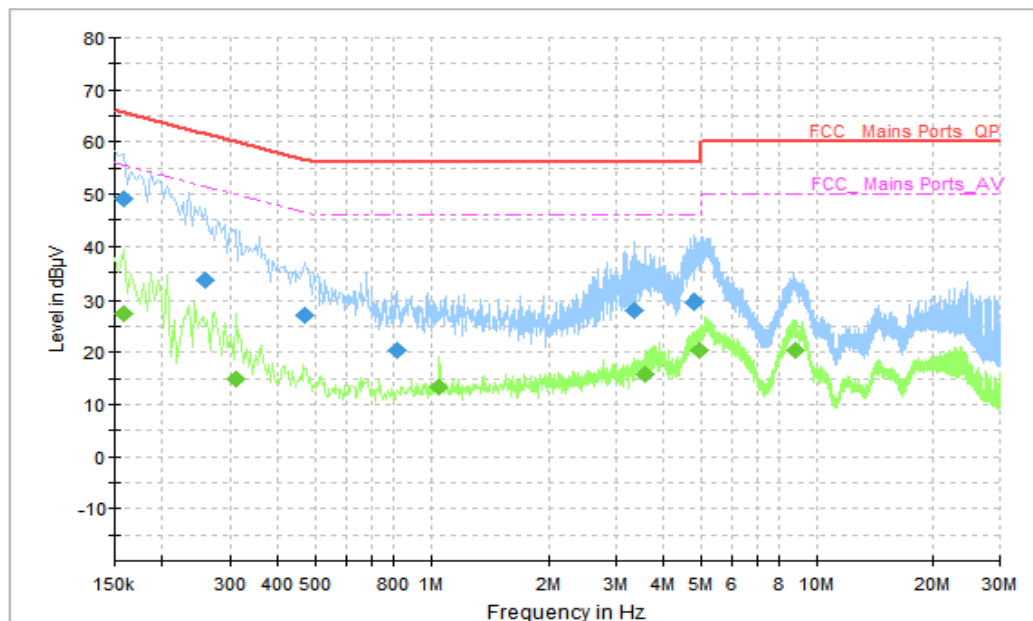


Figure A.2.1. Conducted Emission 120V/60Hz(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.158000	48.97	65.57	16.60	N	7	41.97
0.258000	33.42	61.50	28.08	N	10	23.42
0.470000	27.06	56.51	29.46	N	10	17.06
0.818000	20.42	56.00	35.58	N	10	10.42
3.346000	27.95	56.00	28.05	N	10	17.95
4.806000	29.65	56.00	26.35	N	10	19.65

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.158000	27.37	55.57	28.20	N	7	20.37
0.310000	14.74	49.97	35.23	L1	10	4.74
1.050000	13.30	46.00	32.70	N	10	3.30
3.562000	15.64	46.00	30.36	N	10	5.64
4.974000	20.51	46.00	25.49	N	10	10.51
8.794000	20.24	50.00	29.76	N	10	10.24

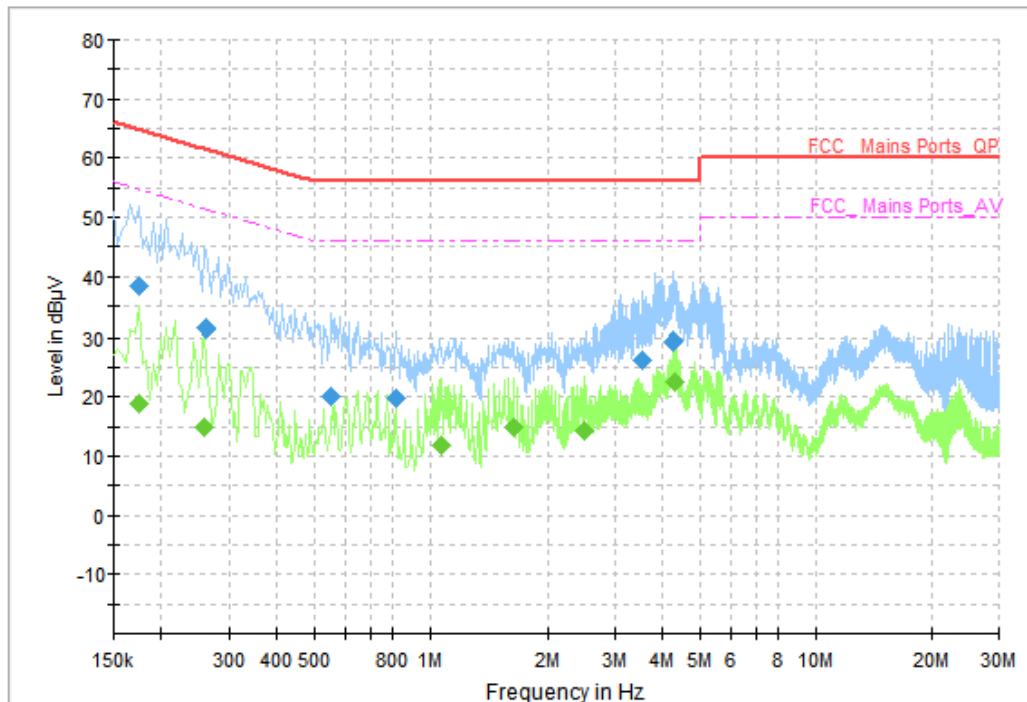


Figure A.2.2. Conducted Emission 240V/60Hz(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.174000	38.54	64.77	26.23	L1	10	28.54
0.262000	31.29	61.37	30.07	N	10	21.29
0.554000	20.13	56.00	35.87	N	10	10.13
0.814000	19.78	56.00	36.22	N	10	9.78
3.534000	26.08	56.00	29.92	N	10	16.08
4.246000	29.39	56.00	26.61	N	10	19.39

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.174000	18.83	54.77	35.94	L1	10	8.83
0.258000	14.86	51.50	36.63	L1	10	4.86
1.070000	11.86	46.00	34.14	L1	10	1.86
1.630000	14.97	46.00	31.03	L1	10	4.97
2.486000	14.36	46.00	31.64	L1	10	4.36
4.290000	22.55	46.00	23.45	N	10	12.55

AC Input Port/ Voltage: 120V/60Hz

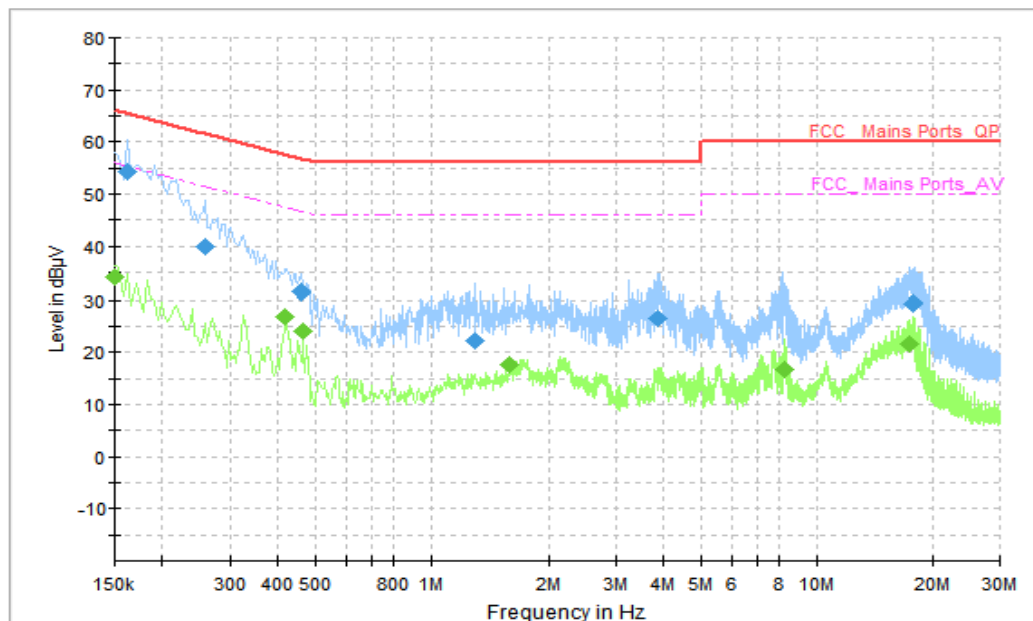


Figure A.2.3. Conducted Emission 120V/60Hz(Data Transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.162000	54.27	65.36	11.09	L1	10	44.27
0.258000	39.92	61.50	21.58	N	10	29.92
0.458000	31.28	56.73	25.45	L1	10	21.28
1.298000	22.18	56.00	33.82	L1	10	12.18
3.874000	26.37	56.00	29.63	L1	10	16.37
17.878000	29.26	60.00	30.74	L1	10	19.26

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.150000	34.28	56.00	21.72	L1	10	24.28
0.418000	26.75	47.49	20.74	L1	10	16.75
0.466000	24.06	46.59	22.53	L1	10	14.06
1.578000	17.53	46.00	28.47	N	10	7.53
8.238000	16.74	50.00	33.26	L1	10	6.74
17.454000	21.71	50.00	28.29	N	10	11.71

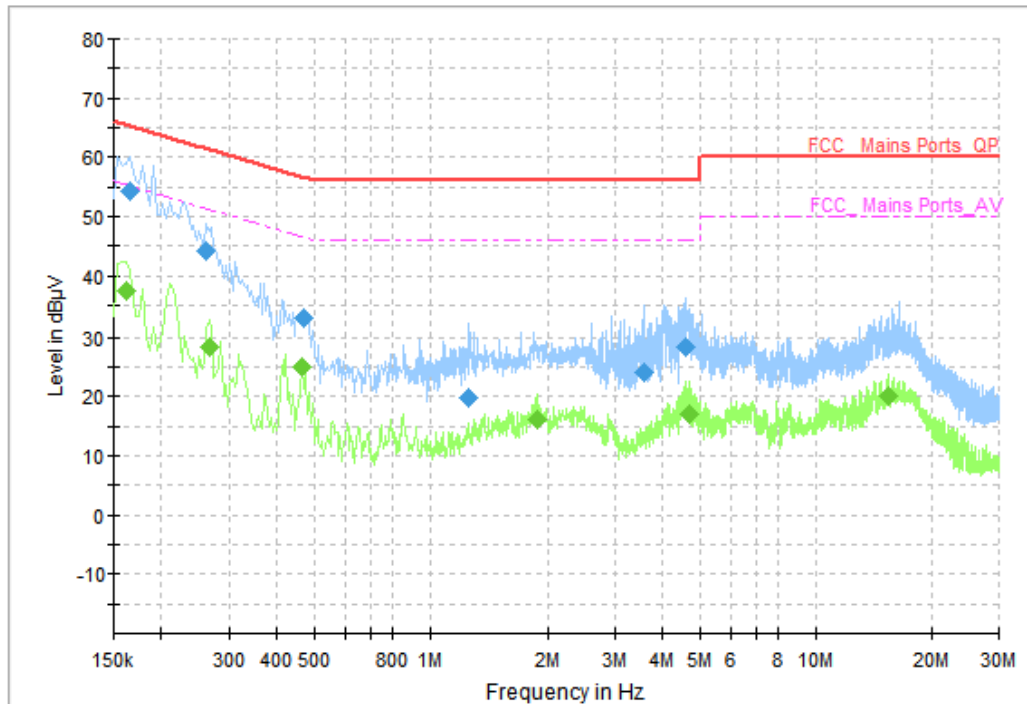


Figure A.2.4. Conducted Emission 240V/60Hz(Data Transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.166000	54.16	65.16	11.00	N	8	46.16
0.262000	44.16	61.37	17.21	L1	10	34.16
0.470000	32.79	56.51	23.72	L1	10	22.79
1.266000	19.74	56.00	36.26	L1	10	9.74
3.586000	24.13	56.00	31.87	L1	10	14.13
4.598000	28.47	56.00	27.53	N	10	18.47

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.162000	37.51	55.36	17.85	L1	10	27.51
0.266000	28.33	51.24	22.91	L1	10	18.33
0.466000	24.90	46.59	21.69	L1	10	14.90
1.874000	16.21	46.00	29.79	N	10	6.21
4.666000	16.90	46.00	29.10	N	10	6.9
15.418000	20.03	50.00	29.97	L1	10	10.03

****END OF REPORT****