



TEST REPORT

No.25T04N000894-010-EMC

for

Shanghai Sunmi Technology Co.,Ltd.

Wireless data POS System

Model Name: T5F1A

With

Hardware Version: SM03_MB_V1.1

Software Version: QSC625VPBCJ10R01A03_BA01BP01GLM03V01

FCC ID:2AH25T5F1A

Issued Date: 2025-05-22

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. 25T04N000894-010-EMC

REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04N000894-010-EMC	Rev.0	1st edition	2025-05-22

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	Wireless data POS System
Model Name	T5F1A
Applicant's name	Shanghai Sunmi Technology Co.,Ltd.
Manufacturer's Name	Shanghai Sunmi Technology Co.,Ltd.

1.2. Test Standards

FCC Part 15, Subpart B (10-1-2023 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: 2025-04-25

Testing End Date: 2025-05-10

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

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Yang Pu District, Shanghai 200433, China
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2.2. Manufacturer Information

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Address: Room 505, NO.388 Song Hu Road,
Yang Pu District, Shanghai 200433, China
Contact Emma Yang
Email chan.yang@sunmi.com
Tel. 13510126210
Fax /

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT

(AE)

3.1. About EUT

Description	Wireless data POS System
Model Name	T5F1A
FCC ID	2AH25T5F1A
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	864649070309611	SM03_MB_ V1.1	QSC625VPBCJ10R01A0 3_BA01BP01GLM03V01	2025-04-25

*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

Model	FHPS
Manufacturer	Guangdong Fenghua New Energy Co., Ltd.
Capacity	3000mAh
Nominal Voltage	7.74V

AE2-1

Model	TPA-141A050200VU01
Manufacturer	Shenzhen Tianyin Electronics Co., Ltd.
Specification	European Standard Charger

AE2-2

Model	TPA-147A050200BU01
Manufacturer	Shenzhen Tianyin Electronics Co., Ltd.
Specification	British Standard Charger

AE2-3

Model	TPA-141A050200UU01
Manufacturer	Shenzhen Tianyin Electronics Co., Ltd.
Specification	American Standard Charger



AE2-4

Model UC13EU
Manufacturer Jiangsu Chenyang Electron Co.,Ltd.
Specification European Standard Charger

AE2-5

Model UC13UK
Manufacturer Jiangsu Chenyang Electron Co.,Ltd.
Specification British Standard Charger

AE2-6

Model UC13US
Manufacturer Jiangsu Chenyang Electron Co.,Ltd.
Specification American Standard Charger

AE3

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

Material Name	AE ID	Remarks	Manufacturer
TPA-141A050200VU01	AE2-1	Except pins and appearance, the other parts are the same.	Shenzhen Tianyin Electronics Co., Ltd.
TPA-147A050200BU01	AE2-2		
TPA-141A050200UU01	AE2-3		
UC13EU	AE2-4	Except pins and appearance, the other parts are the same.	Jiangsu Chenyang Electron Co.,Ltd.
UC13UK	AE2-5		
UC13US	AE2-6		



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3.4. EUT Set-ups

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

3.5. General Description

The Equipment Under Test (EUT) is a model of Wireless data POS System with internal antenna. It supports GSM 850/900/1800/1900MHz, WCDMA Bands 1/2/4/5/6/8/19, LTE Bands 1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/34/38/39/40/41/66/71.

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.

This report serves as a record of T5F1A, the tables below show all the differences.

Changes	T5F1A (Mains supply)	T5F1A (Second supply)	T5F1A (Thrid supply)
Front Camera	Y	N	N
NFC	Y	Y	N
Scanner	Y	Y	N
fingerprint	Y	Y	N
LCD	Y (Original&secondary source)	Y (Original supplier)	Y (Original supplier)
CPU	6225	4325	4325

T5F1A (Mains supply) and T5F1A (secondary supply) the following tests need to be performed:

NO.	Test item	EUT ID	Operating mode
1	Conducted Emission	UT01aa	Camera
2	Radiated Emission	UT01aa	Data transfer

Other results are cited from the initial report.

The report number for initial model is 24T04N002645-002-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	(10-1-2023 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

1. Since the information of samples in this report is provided by the client, the laboratory is not responsible for the authenticity of sample information.

2. 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)
	18GHz-40GHz	2.90dB(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	2025.11.21	1 year
2.	Test Receiver	ESCI	100702	R&S	2026.01.09	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2026.01.09	1 year
4.	BiLog Antenna	3142E	00224831	ETS-Lindgren	2027.10.23	3 years
5.	Horn Antenna	3117	00227733	ETS-Lindgren	2026.08.01	3 years
6.	LISN	ENV216	102067	R&S	2025.10.06	1 year
7.	Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2025.05.28	2 years
8.	Horn Antenna	QSH-SL-18-2 6-S-20	17013	Q-par	2026.02.01	3 years
9.	Horn Antenna	QSH-SL-8-26- 40-K-20	17014	Q-par	2026.01.30	3 years



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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	/	/

10. 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 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:

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.

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. 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 ($\mu\text{V}/\text{m}$)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

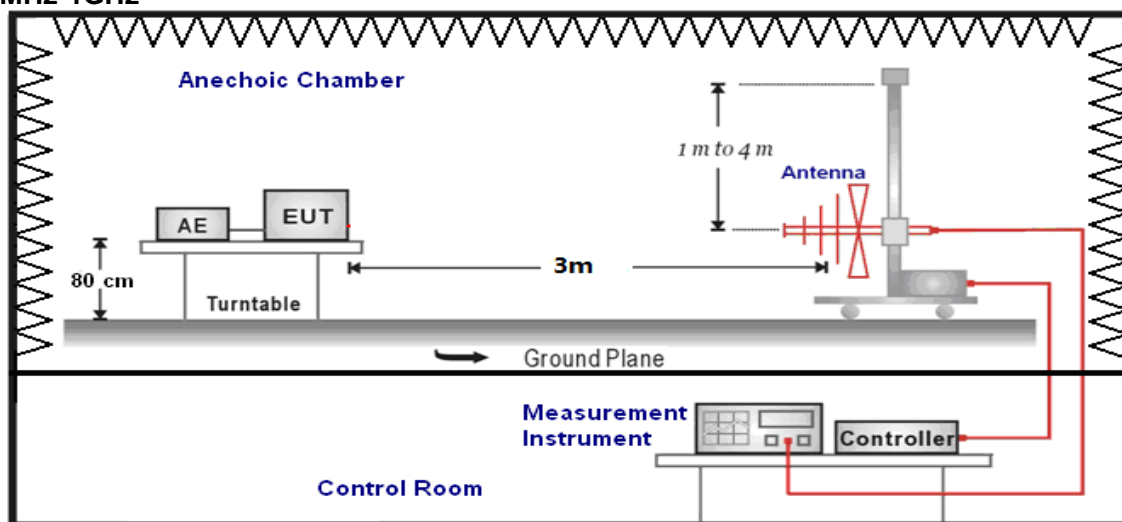
*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

A.1.4 Test Condition

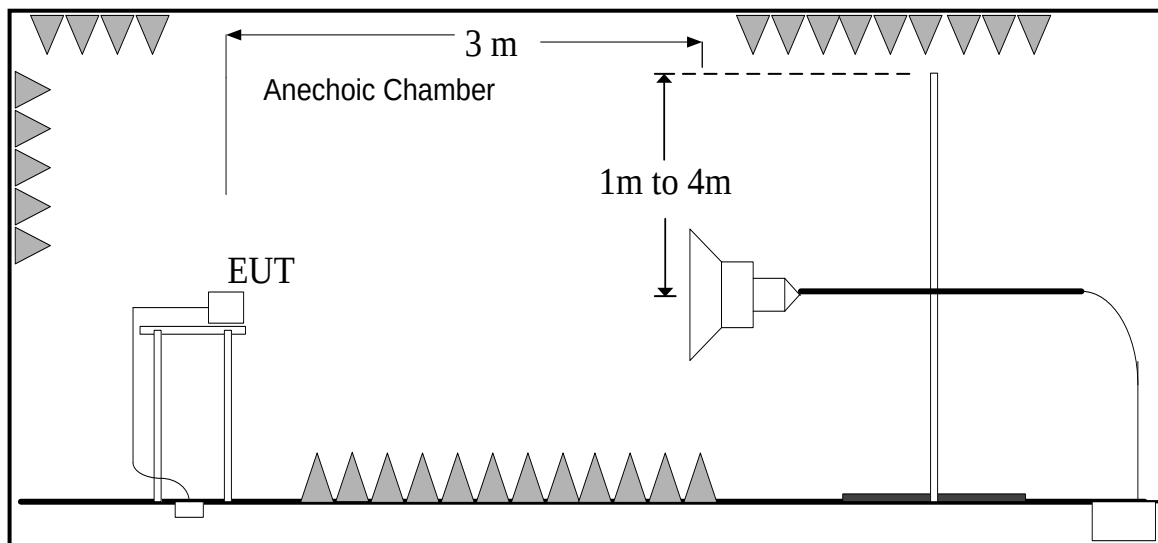
Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

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

Data Transfer: EUT TO PC

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.1.1.	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.2	
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: PC TO EUT

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.1.5.	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
			UT01aa/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.	

Data Transfer: TF TO PC

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.1.9.	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.1.10.	P
18000 to 26500	63.54	83.54	See Figure A.1.11.	
26500 to 40000	63.54	83.54	See Figure A.1.12.	

Data Transfer: PC TO TF

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.1.13.	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.1.14.	P
18000 to 26500	63.54	83.54	See Figure A.1.15.	
26500 to 40000	63.54	83.54	See Figure A.1.16.	

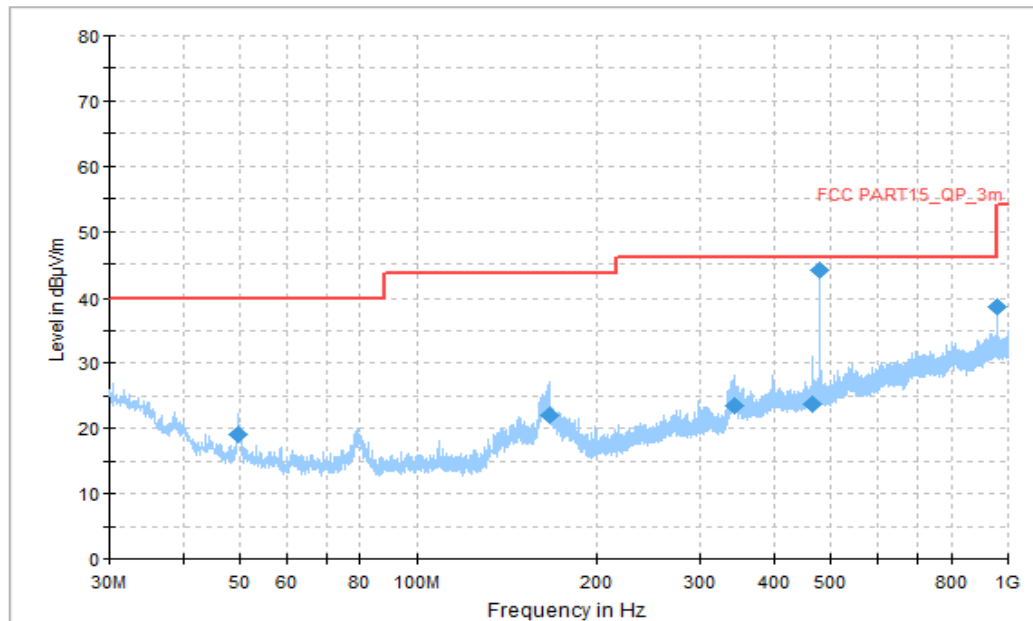


Figure A.1.1. Radiated Emission (Data Transfer: EUT TO PC, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
49.723333	19.03	40.00	20.97	V	-20.5	39.53
166.931667	21.91	43.52	21.61	V	-16.9	38.81
343.956667	23.50	46.02	22.52	H	-9.5	33.00
465.691667	23.81	46.02	22.21	V	-5.4	29.21
480.026111	43.94	46.02	2.08	V	-5.1	49.04
960.014444	38.54	53.98	15.44	V	2.4	36.14

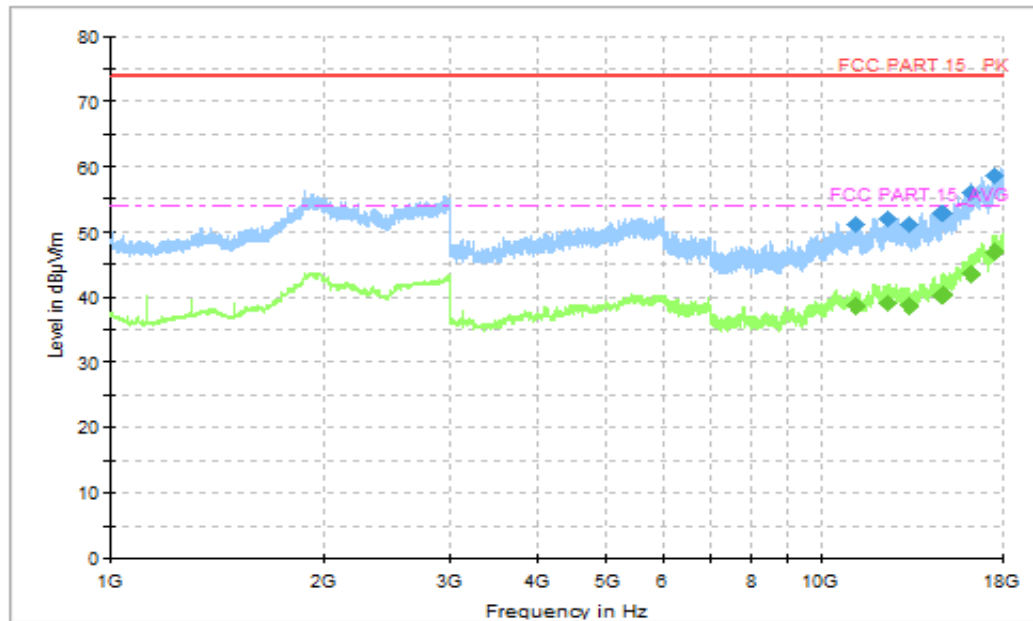


Figure A.1.2. Radiated Emission (Data Transfer: EUT TO PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
11155.500000	51.15	74.00	22.85	V	11.9	39.25
12426.500000	52.00	74.00	22.00	H	13.1	38.9
13325.500000	51.24	74.00	22.76	H	13.0	38.24
14786.000000	52.74	74.00	21.26	H	14.9	37.84
16242.000000	56.01	74.00	17.99	V	17.1	38.91
17601.000000	58.82	74.00	15.18	V	21.4	37.42

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
11155.500000	38.77	54.00	15.23	V	11.9	26.87
12426.500000	39.16	54.00	14.84	H	13.1	26.06
13325.500000	38.73	54.00	15.27	H	13.0	25.73
14786.000000	40.41	54.00	13.59	H	14.9	25.51
16242.000000	43.56	54.00	10.44	V	17.1	26.46
17601.000000	46.86	54.00	7.14	V	21.4	25.46

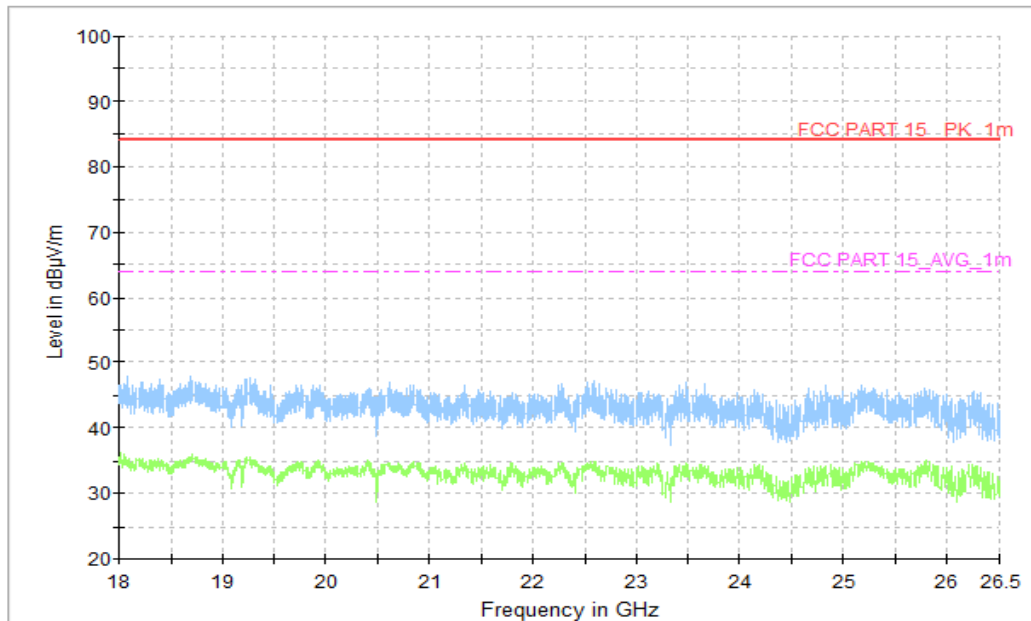


Figure A.1.3. Radiated Emission (Data Transfer: EUT TO PC, 18GHz to 26.5GHz)

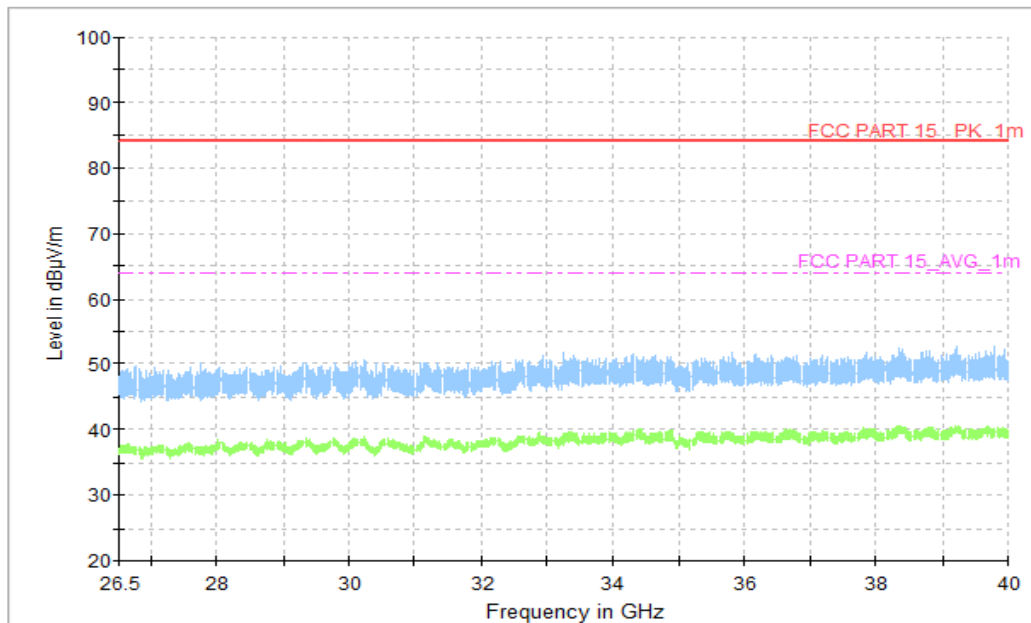


Figure A.1.4. Radiated Emission (Data Transfer: EUT TO PC, 26.5GHz to 40GHz)

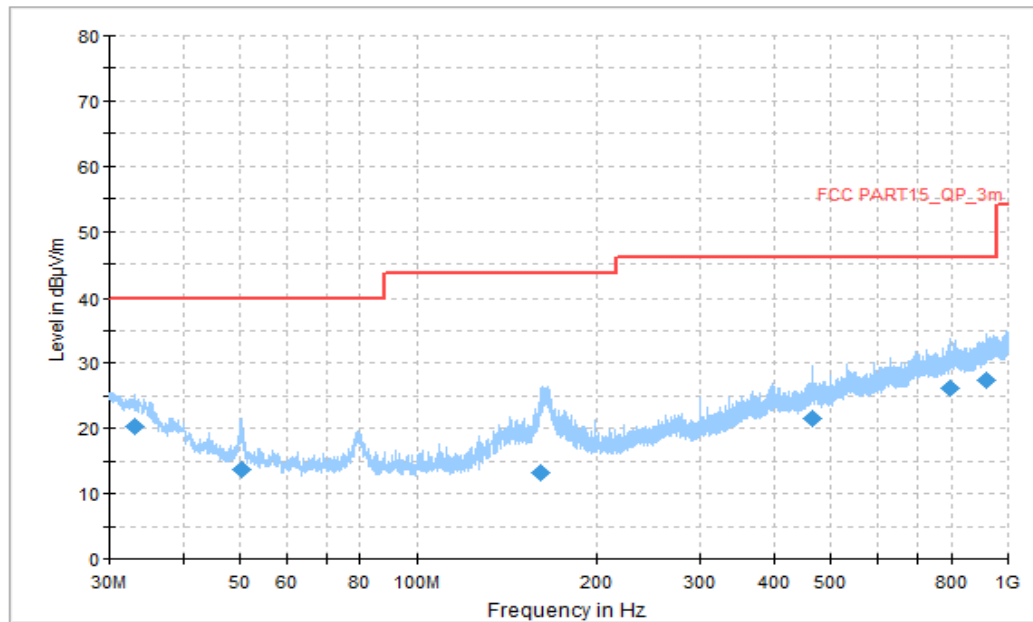


Figure A.1.5. Radiated Emission (Data Transfer: PC TO EUT, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
33.233333	20.25	40.00	19.75	V	-14.5	34.75
50.154444	13.70	40.00	26.30	V	-20.6	34.3
160.788333	13.21	43.52	30.31	V	-16.3	29.51
464.506111	21.49	46.02	24.53	V	-5.5	26.99
795.060556	26.11	46.02	19.91	H	0.5	25.61
920.621667	27.36	46.02	18.66	V	2.0	25.36

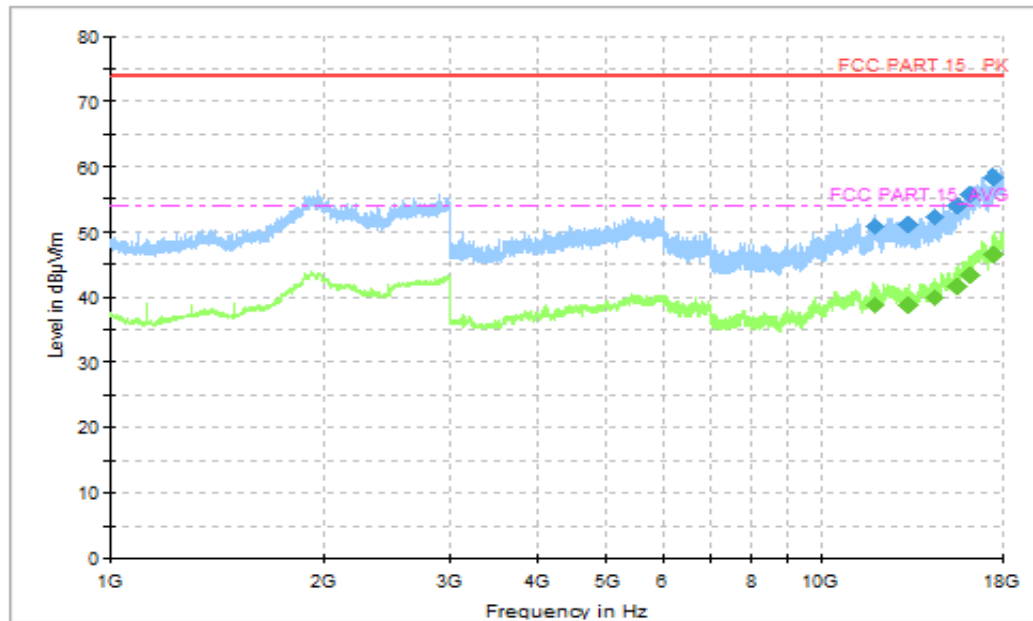


Figure A.1.6. Radiated Emission (Data Transfer: PC TO EUT, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
11920.500000	51.01	74.00	22.99	V	12.8	38.21
13282.500000	51.16	74.00	22.84	H	13.0	38.16
14457.000000	52.38	74.00	21.62	V	13.6	38.78
15502.000000	54.01	74.00	19.99	V	15.0	39.01
16199.500000	55.69	74.00	18.31	H	17.0	38.69
17523.500000	58.58	74.00	15.42	H	21.5	37.08

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
11920.500000	38.80	54.00	15.20	V	12.8	26.00
13282.500000	38.82	54.00	15.18	H	13.0	25.82
14457.000000	39.77	54.00	14.23	V	13.6	26.17
15502.000000	41.67	54.00	12.33	V	15.0	26.67
16199.500000	43.31	54.00	10.69	H	17.0	26.31
17523.500000	46.41	54.00	7.59	H	21.5	24.91

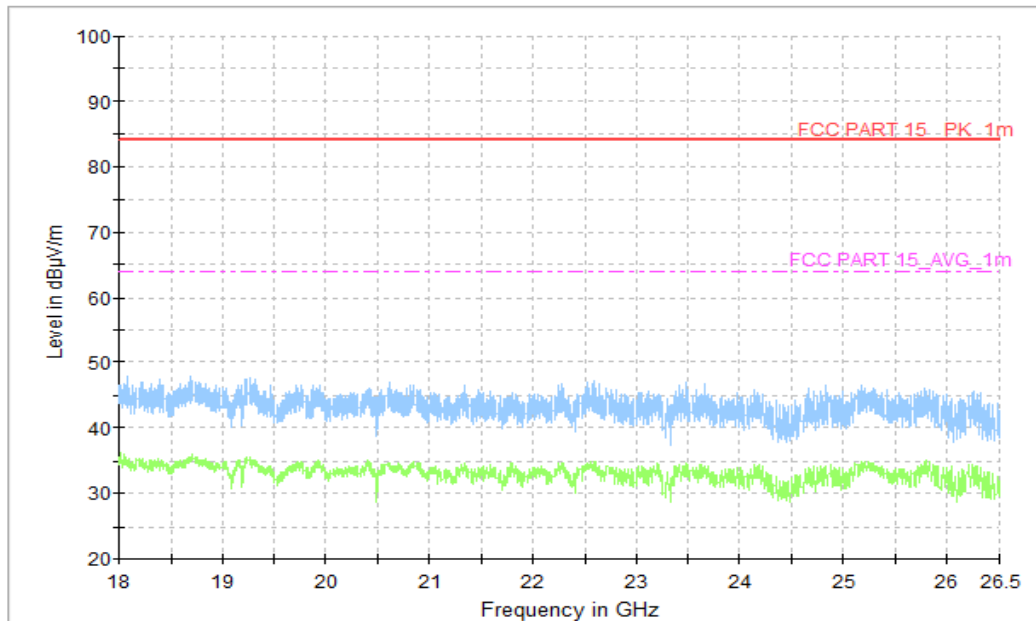


Figure A.1.7. Radiated Emission (Data Transfer: PC TO EUT, 18GHz to 26.5GHz)

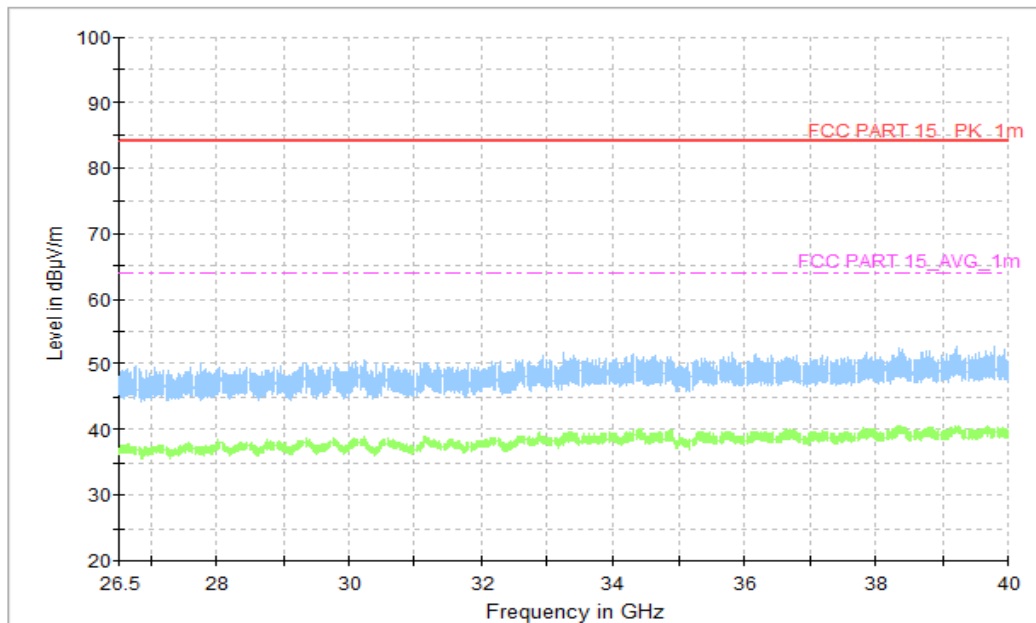


Figure A.1.8. Radiated Emission (Data Transfer: PC TO EUT, 26.5GHz to 40GHz)

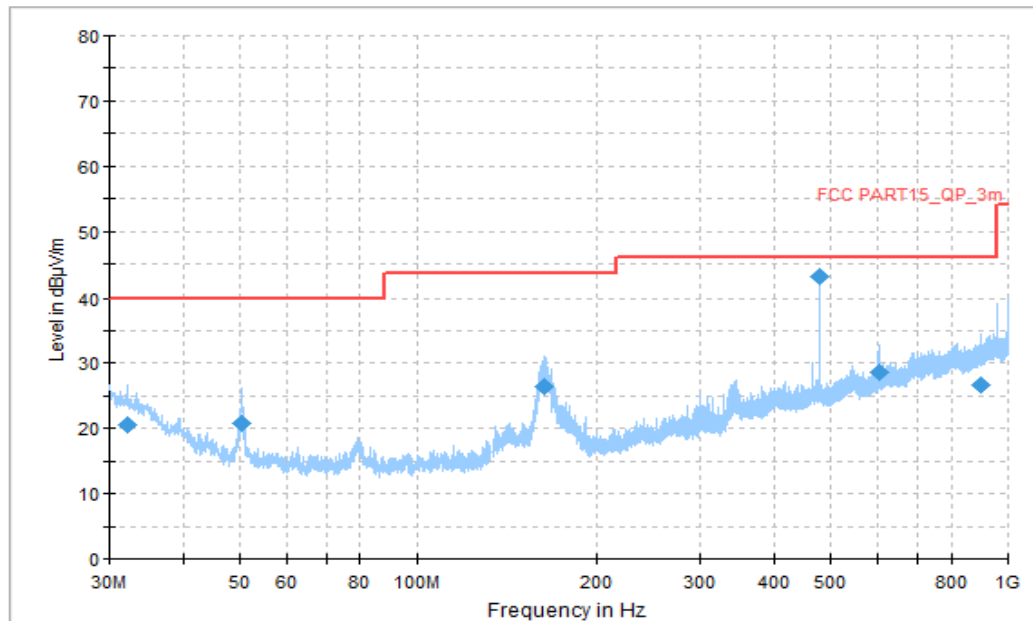


Figure A.1.9. Radiated Emission (Data Transfer: TF TO PC, 30MHz to 1GHz)
Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
32.101667	20.48	40.00	19.52	V	-13.7	34.18
50.423889	20.73	40.00	19.27	V	-20.6	41.33
162.566667	26.43	43.52	17.09	V	-16.7	43.13
479.972222	42.98	46.02	3.04	V	-5.1	48.08
605.263889	28.63	46.02	17.39	V	-2.8	31.43
899.443333	26.61	46.02	19.41	V	1.5	25.11

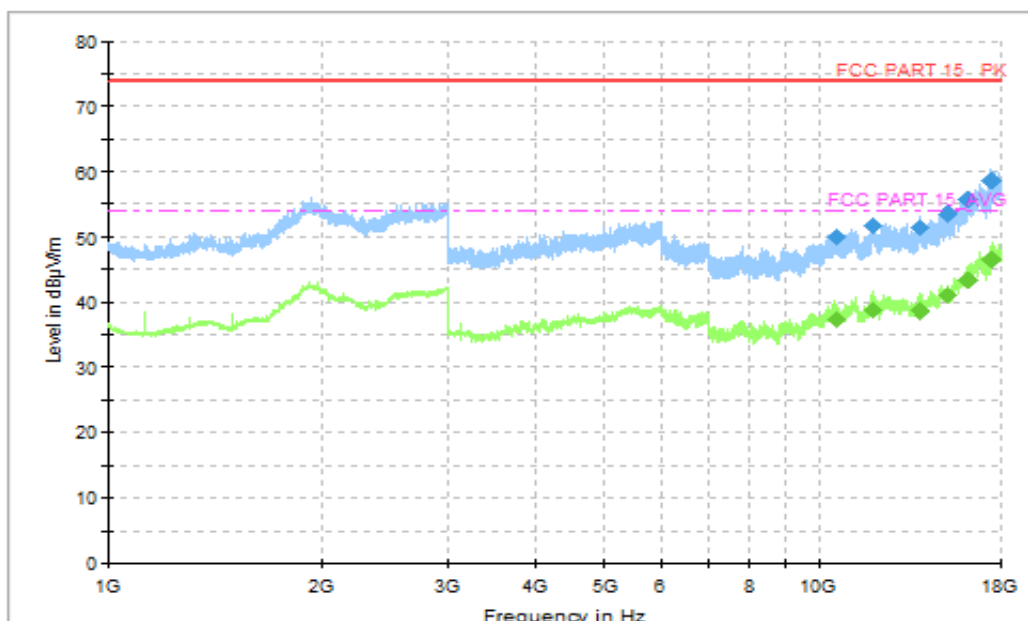


Figure A.1.10. Radiated Emission (Data Transfer: TF TO PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
10619.000000	50.02	74.00	23.98	V	11.0	39.02
11937.000000	51.60	74.00	22.40	V	12.8	38.8
13934.000000	51.26	74.00	22.74	V	12.3	38.96
15139.000000	53.66	74.00	20.34	H	14.4	39.26
16154.000000	55.72	74.00	18.28	V	16.9	38.82
17527.000000	58.76	74.00	15.24	H	21.5	37.26

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
10619.000000	37.42	54.00	16.58	V	11.0	26.42
11937.000000	39.00	54.00	15.00	V	12.8	26.2
13934.000000	38.57	54.00	15.43	V	12.3	26.27
15139.000000	41.09	54.00	12.91	H	14.4	26.69
16154.000000	43.40	54.00	10.60	V	16.9	26.5
17527.000000	46.54	54.00	7.46	H	21.5	25.04

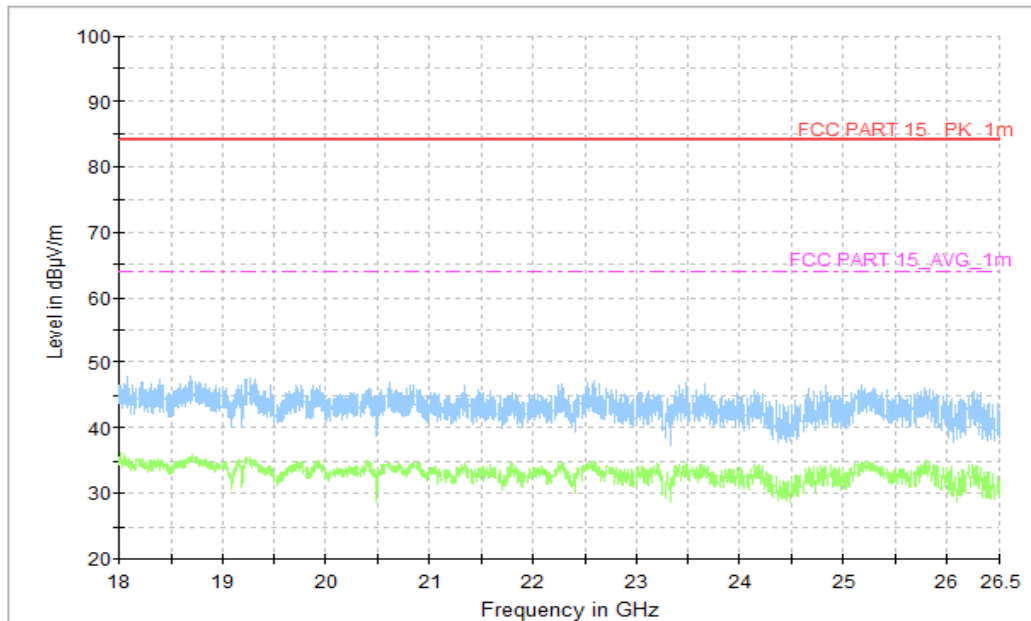


Figure A.1.11. Radiated Emission (Data Transfer: TF TO PC, 18GHz to 26.5GHz)

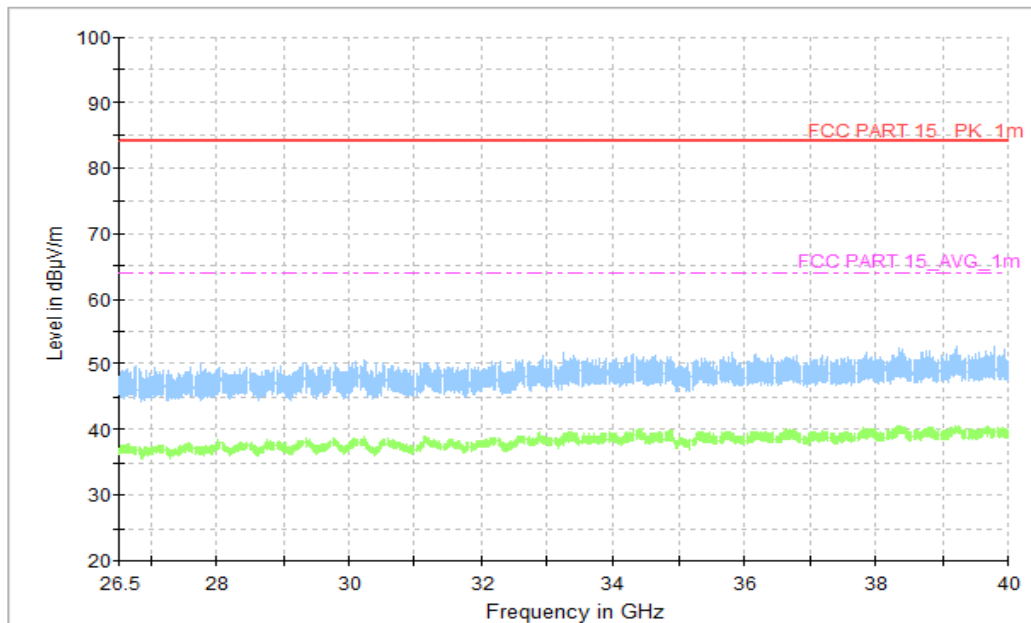


Figure A.1.12. Radiated Emission (Data Transfer: TF TO PC, 26.5GHz to 40GHz)

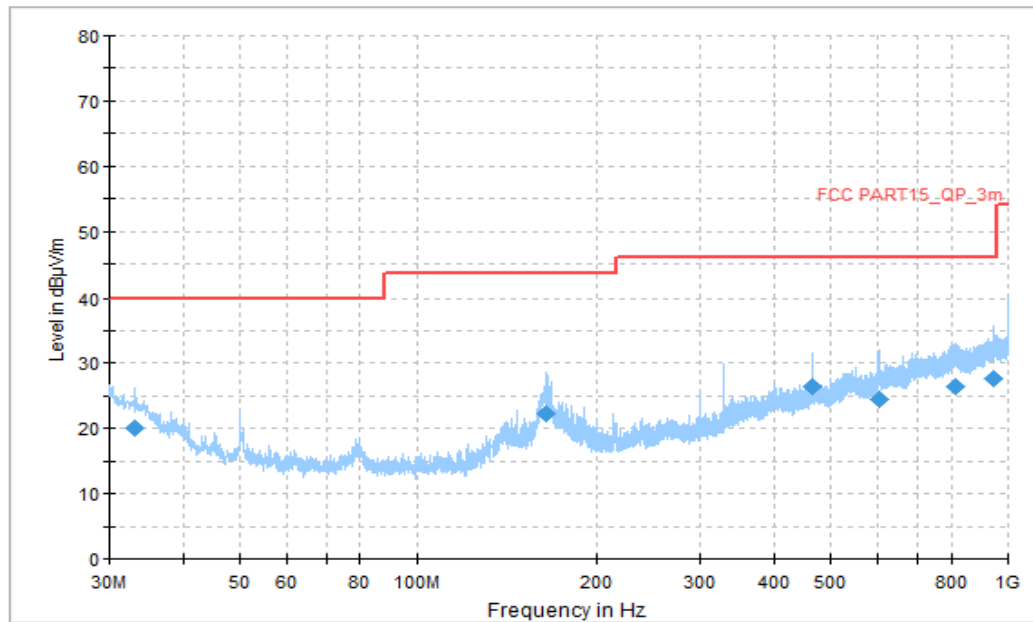


Figure A.1.13. Radiated Emission (Data Transfer: PC TO TF, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
33.125556	20.17	40.00	19.83	H	-14.4	34.57
164.776111	22.33	43.52	21.19	V	-16.9	39.23
466.284444	26.41	46.02	19.61	V	-5.4	31.81
605.533333	24.58	46.02	21.44	V	-2.8	27.38
815.484444	26.36	46.02	19.66	H	1.0	25.36
945.733889	27.74	46.02	18.28	V	2.5	25.24

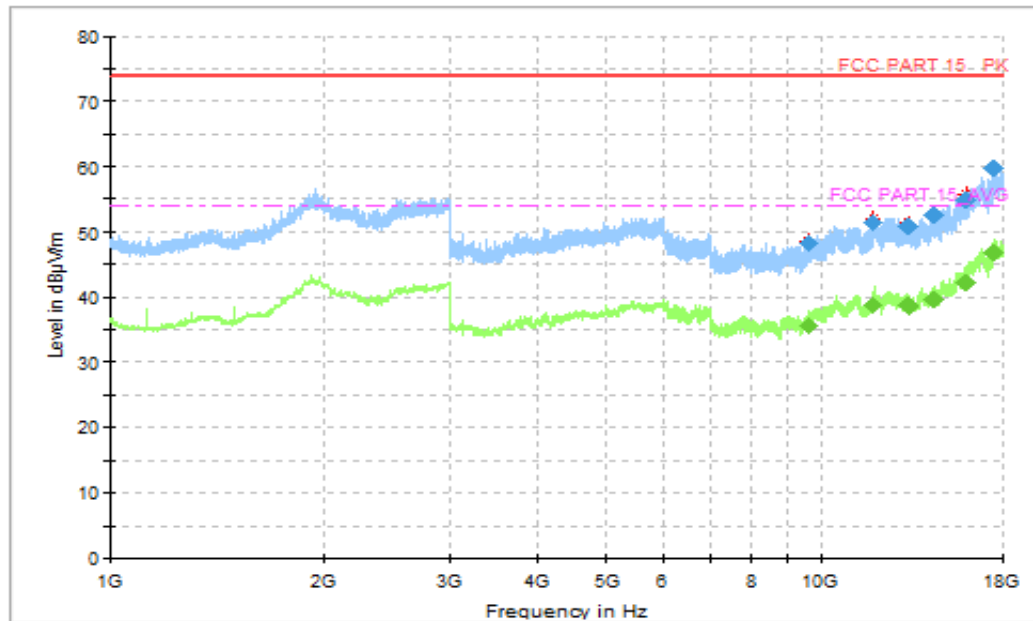


Figure A.1.14. Radiated Emission (Data Transfer: PC TO TF, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
9588.000000	48.19	74.00	25.81	V	8.9	39.29
11874.000000	51.31	74.00	22.69	H	12.9	38.41
13284.500000	50.80	74.00	23.20	V	13.0	37.80
14364.500000	52.59	74.00	21.41	H	13.8	38.79
15989.000000	54.83	74.00	19.17	H	16.3	38.53
17515.500000	59.63	74.00	14.37	V	21.5	38.13

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
9588.000000	35.82	54.00	18.18	V	8.9	26.92
11874.000000	38.85	54.00	15.15	H	12.9	25.95
13284.500000	38.78	54.00	15.22	V	13.0	25.78
14364.500000	39.57	54.00	14.43	H	13.8	25.77
15989.000000	42.42	54.00	11.58	H	16.3	26.12
17515.500000	46.63	54.00	7.37	V	21.5	25.13

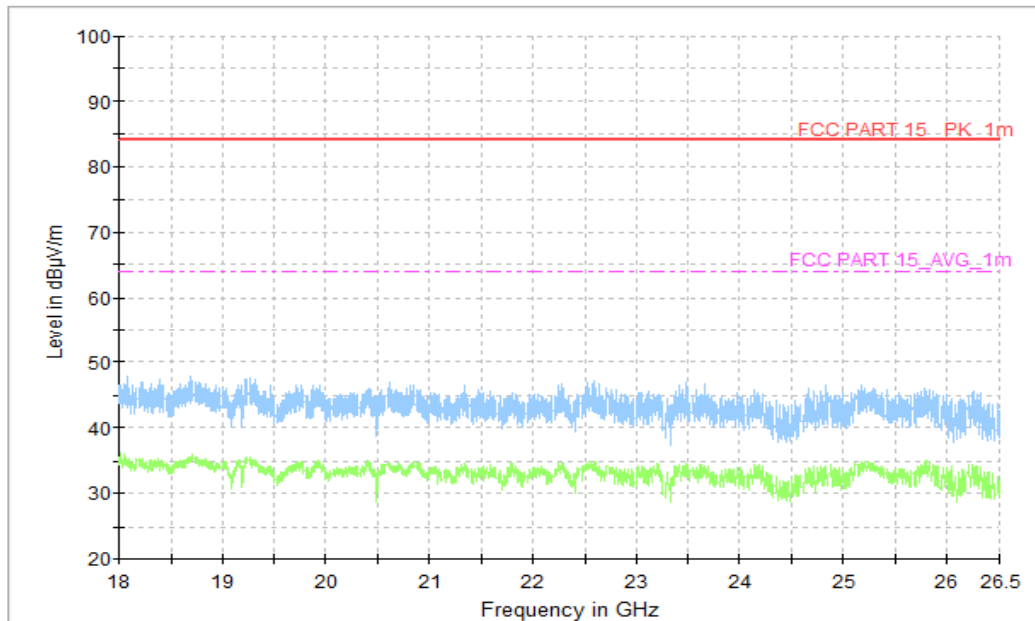


Figure A.1.15. Radiated Emission (Data Transfer: PC TO TF, 18GHz to 26.5GHz)

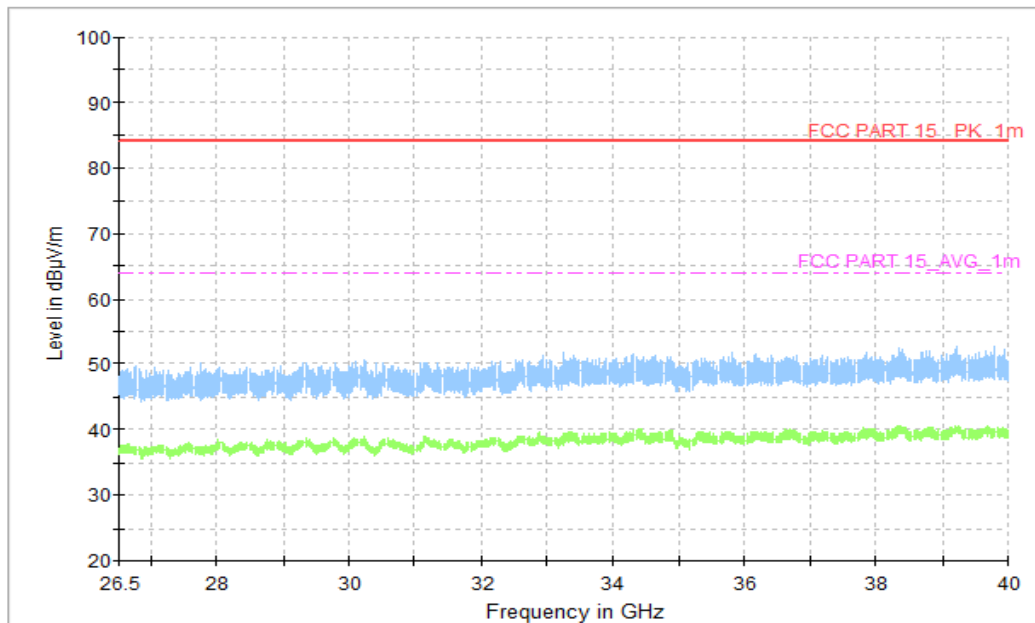


Figure A.1.16. Radiated Emission (Data Transfer: PC TO TF, 26.5GHz to 40GHz)

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.

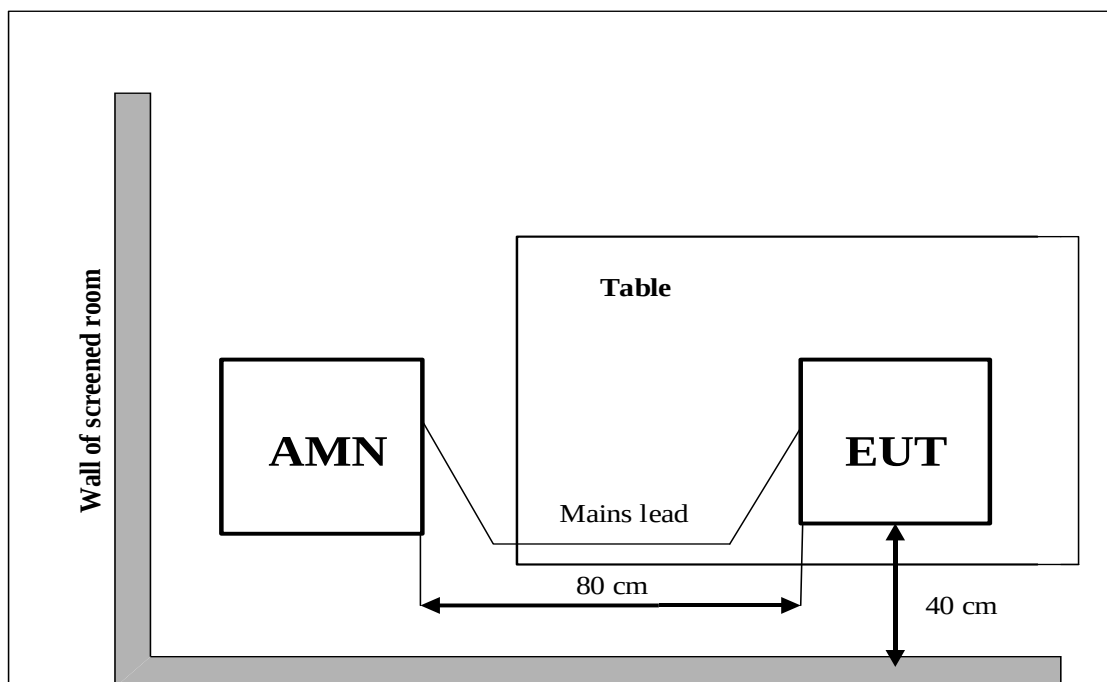
A.2.2 EUT Operating Mode:

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.

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: 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.2.2.	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.				

AC Input Port/ Voltage: 120V/60Hz

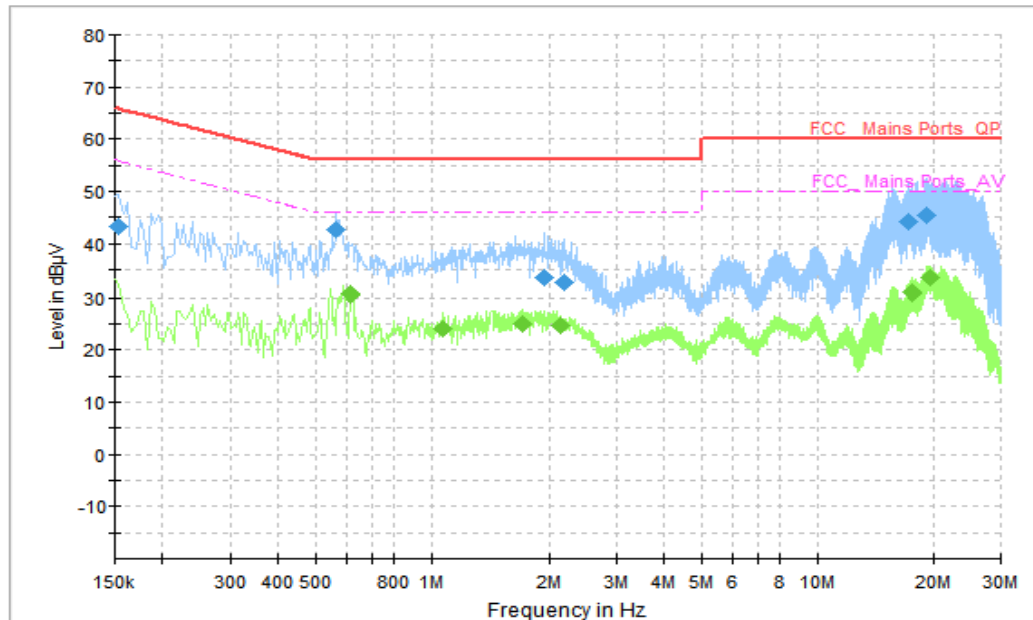


Figure A.2.1. Conducted Emission (Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.154000	43.40	65.78	22.38	N	10	33.40
0.566000	42.80	56.00	13.20	N	10	32.8
1.946000	33.37	56.00	22.63	N	10	23.37
2.186000	32.49	56.00	23.51	N	10	22.49
17.310000	44.09	60.00	15.91	N	10	34.09
19.270000	45.53	60.00	14.47	N	10	35.53

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.618000	30.33	46.00	15.67	L1	10	20.33
1.074000	24.19	46.00	21.81	N	10	14.19
1.714000	25.07	46.00	20.93	L1	10	15.07
2.134000	24.70	46.00	21.30	L1	10	14.70
17.634000	30.76	50.00	19.24	N	10	20.76
19.646000	33.54	50.00	16.46	N	10	23.54

AC Input Port/ Voltage: 240V/60Hz

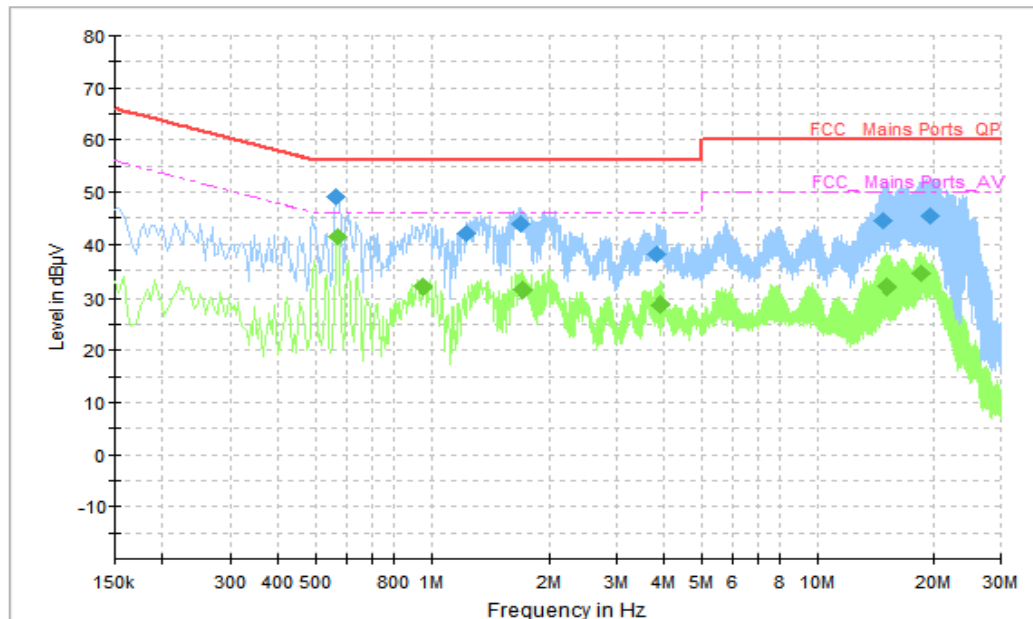


Figure A.2.2. Conducted Emission (Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.566000	49.18	56.00	6.82	N	10	39.18
1.238000	42.13	56.00	13.87	N	10	32.13
1.698000	43.78	56.00	12.22	N	10	33.78
3.822000	38.23	56.00	17.77	N	10	28.23
14.874000	44.45	60.00	15.55	N	10	34.45
19.702000	45.35	60.00	14.65	N	10	35.35

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.570000	41.41	46.00	4.59	L1	10	31.41
0.954000	31.88	46.00	14.12	N	10	21.88
1.710000	31.53	46.00	14.47	N	10	21.53
3.890000	28.58	46.00	17.42	N	10	18.58
15.122000	32.03	50.00	17.97	N	10	22.03
18.642000	34.39	50.00	15.61	N	10	24.39

****END OF REPORT****