



# TEST REPORT

## No.I22N01654-EMC

for

**Hisense International Co., Ltd.**

**Mobile phone**

**Model Name: HLTE239E**

With

**Hardware Version: FS301-MB-V1.0**

**Software Version: Hisense\_HLTE239E\_01\_S01\_01\_05\_MX05**

**FCC ID: 2ADOBHLTE239E**

**Issued Date: 2022-09-20**

**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**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I22N01654-EMC	Rev.0	1st edition	2022-09-20

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	Mobile phone
Model Name	HLTE239E
Applicant's name	Hisense International Co., Ltd.
Manufacturer's Name	Hisense Communications Co., 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: 2022-09-10

Testing End Date: 2022-09-15

### **1.6. Signature**

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**Liang Yong**  
**(Prepared this test report)**

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**Zhang Yunzhuan**  
**(Reviewed this test report)**

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**Cao Junfei**  
**(Approved this test report)**



## **2. CLIENT INFORMATION**

### **2.1. Applicant Information**

Company Name: Hisense International Co., Ltd..  
Address: Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, China  
Contact: Zhang He  
Email: Zhanghe1@hisense.com  
Tel: 0532-55753718

### **2.2. Manufacturer Information**

Company Name: Hisense Communications Co., Ltd.  
Address: 218 Qianwangang Road, Qingdao Economic & Technological  
Development Zone, Qingdao, China  
Contact: Zhang He  
Email: Zhanghe1@hisense.com  
Tel: 0532-55753718

**3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT****(AE)****3.1. About EUT**

Description	Mobile phone
Model Name	HLTE239E
FCC ID	2ADOBHLTE239E
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	865269060000051	FS301-MB- V1.0	Hisense_HLTE239E_01_S01 _01_05_MX05	2022-09-01
UT13aa	868551060008938	FS301-MB- V1.0	Hisense_HLTE239E_01_S01 _01_05_MX05	2022-09-01

\*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
AE4	Headset

**AE1-1**

Model	LPN385400B
Manufacturer	Shenzhen Aerospac Electronic CO.,Ltd.
4850	4000mAh
Nominal Voltage	3.85v

**AE2-1**

Model	PA-46050200UU
Manufacturer	SHENZHEN TIANYIN ELECTRONICS CO.,LTD

**AE3-1**

Model	KS228D
Manufacturer	Dongguan Keling Electronic Technology Co., Ltd.

**AE4**

Model	KS232D	/
Manufacturer	Dongguan Keling Electronic Technology Co., Ltd.	/

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

AE: ancillary equipment



**3.4. EUT Set-ups**

<b>EUT set-up No.</b>	<b>Combination of EUT and AE</b>	<b>Remarks</b>
Set.1	EUT+AE1-1+AE2-1+AE3-1+AE4	
Set.2	EUT+AE1-1+AE3-1+PC	



**3.5. General Description**

The Equipment Under Test (EUT) is a model of Mobile phone.

It supports GSM 850/900/1800/1900MHz, WCDMA Bands 1/2/4/5 and LTE Bands 1/2/4/5/7/8/12/26/28.

It has Video Player, Camera, FM Receiver, USB memory, Bluetooth, Wi-Fi and GNSS functions.

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

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 product has 2 supplies of Camera/LCM; the tables below show the differences:

Main Supply

Part Name	Model	Supplier(Brand)	Description
Camera	H8B8-KS229FF	Hunan Kingcome Optoelectronics CO.,LTD	Front CAM
LCM	TM065JVHC32	Tianma Microelectronics Co., Ltd.	

Secondary Supply

Part Name	Model	Supplier(Brand)	Description
Camera	BM18639	LUZHOU Chengxiangtong technology CO.,LTD	Front CAM
LCM	TXDY650EBAPUG-63V3	Company profile of ShenZhen TXD Technology Co,Ltd	

This report is based on the model HLTE239E (Main Supply) for the primary test. The model HLTE239E(Secondary Supply) is a record of model HLTE239E(Main Supply).

According to the declaration of differences by manufacturer, in addition the following tests need to be performed for HLTE239E(Secondary Supply).

NO.	Test item	specifications of memory	EUT ID	Operating mode
1	Conducted Emission	Secondary Supply	UT13aa	Camera
2	Radiated Emission	Secondary Supply	UT13aa	Camera

Other results are cited from the primary test model HLTE239E (Main Supply).





## **4. REFERENCE DOCUMENTS**

### **4.1. Reference Documents for Testing**

The following documents listed in this section are referred for testing.

<b>Reference</b>	<b>Title</b>	<b>Version</b>
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°C  
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	Section in this report	Verdict
1	Radiated Emission	15.109(a)	A.1	P
2	Conducted Emission	15.107(a)	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)
	18GHz-40GHz	2.90dB(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	00066577	ETS-Lindgren	2025.03.15	3 years
6.	LISN	ENV216	102067	R&S	2023.07.11	1 year
7.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2023.05.29	2 years
8.	Software	EMC32	V10.50.40	R&S	/	/
9.	Universal Radio Communication Tester	CMU200	114545	R&S	2023.01.12	1 year
10.	Universal Radio Communication Tester	CMW500	152499	R&S	2023.07.14	1 year
11.	Horn Antenna	QSH-SL-18-2 6-S-20	17013	Q-par	2023.01.06	3 years
12.	Horn Antenna	QSH-SL-8-26- 40-K-20	17014	Q-par	2023.01.06	3 years



**9. TEST ACCESSORY UTILIZED**

<b>No.</b>	<b>Name</b>	<b>Model</b>	<b>Serial Number</b>	<b>Manufacturer</b>	<b>Calibration Due date</b>	<b>Calibration Period</b>
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.

**Video Player:** The EUT is connected to a charger for charging and keeping on playing mp3.

**FM receiver:** The EUT is connected to a charger for charging. The EUT is synchronized to a FM signal generator. The EUT is keeping on demodulating the FM signal and outputting the audio signal through the headset.

**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 TF Card, reading and erasing the data after copy action was finished.

**GSM receiver:** The EUT is connected to a charger for charging. The EUT is synchronized to System Simulator (SS), and able to respond to paging messages and incoming call. An established call has been released.

**WCDMA receiver:** The EUT is connected to a charger for charging. The EUT is synchronized to System Simulator (SS), and able to respond to paging messages and incoming call. An established call has been released.

**LTE receiver:** The EUT is connected to a charger for charging. The EUT is synchronized to System Simulator (SS), and able to respond to paging messages and incoming call. An established call has been released.

This device contains the receivers which tune and operate between 30MHz-960MHz in the following bands:

GSM850MHz, WCDMA Band5, LTE Band 5,LTE Band 12.

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)

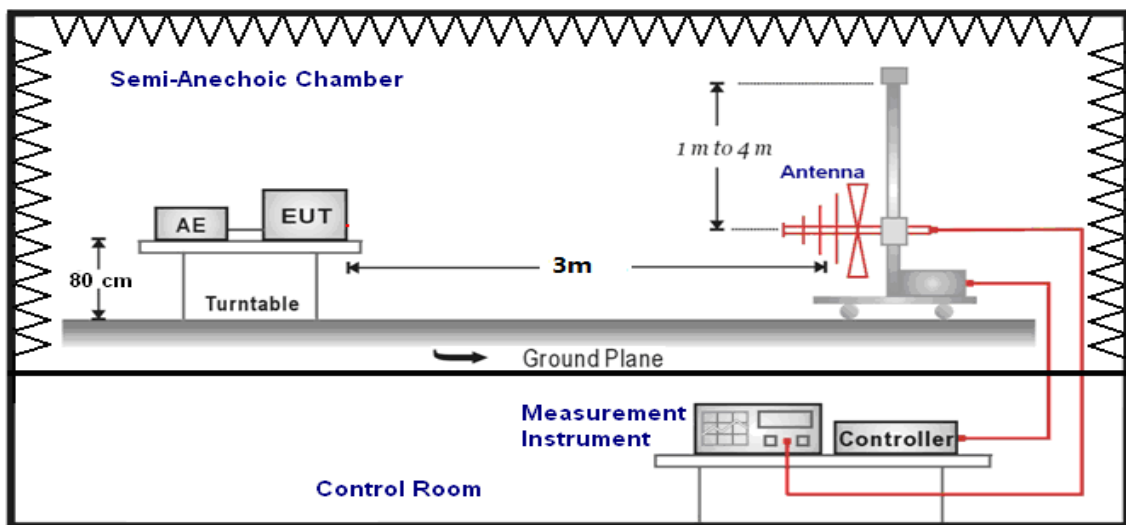
Frequency range (MHz)	Field strength limit ( $\mu\text{V}/\text{m}$ )		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

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

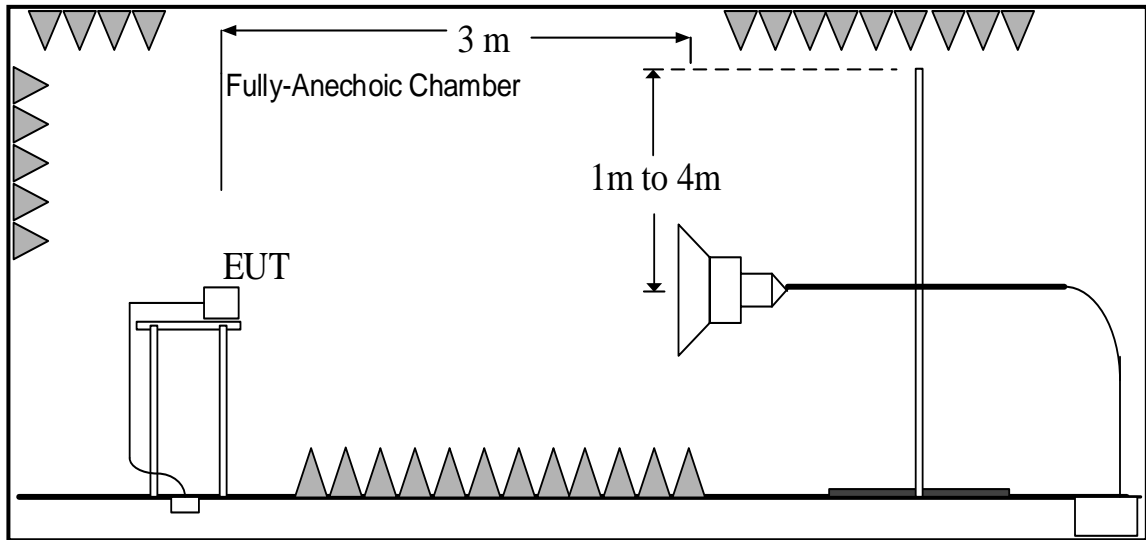
**A.1.4 Test Condition**

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

$P_{\text{Mea}}$ : Measurement result on receiver.

Result: Quasi-Peak (dB $\mu$ V/m) / Average (dB $\mu$ V/m) / Peak (dB $\mu$ V/m)

Note: the result contains vertical part and Horizontal part

Camera

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT01aa/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 $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
			UT01aa/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.	



## Camera

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT13aa/Set.1	
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 $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
			UT13aa/Set.1	
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.	

## Video Player

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT01aa/Set.1	
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 $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
			UT01aa/Set.1	
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.	

## FM receiver

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT01aa/Set.5	
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 $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
			UT01aa/Set.1	
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.	

## GSM receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT01aa/Set.1	
30-88	40.00	See Figure A.1.17.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
			UT01aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.18.	P
18000 to 26500	63.54	83.54	See Figure A.1.19.	
26500 to 40000	63.54	83.54	See Figure A.1.20.	

## WCDMA receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT01aa/Set.1	
30-88	40.00	See Figure A.1.21.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
			UT01aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.22.	P
18000 to 26500	63.54	83.54	See Figure A.1.23.	
26500 to 40000	63.54	83.54	See Figure A.1.24.	

## LTE receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT01aa/Set.1	
30-88	40.00	See Figure A.1.25.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
			UT01aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.26.	P
18000 to 26500	63.54	83.54	See Figure A.1.27.	
26500 to 40000	63.54	83.54	See Figure A.1.28.	

## LTE receiver Band 12

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT01aa/Set.1	
30-88	40.00	See Figure A.1.29.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
			UT01aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.30.	P
18000 to 26500	63.54	83.54	See Figure A.1.31.	
26500 to 40000	63.54	83.54	See Figure A.1.32.	

## Data Transfer

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT01aa/Set.2	
30-88	40.00	See Figure A.1.33.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
			UT01aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.34.	P
18000 to 26500	63.54	83.54	See Figure A.1.35.	
26500 to 40000	63.54	83.54	See Figure A.1.36.	

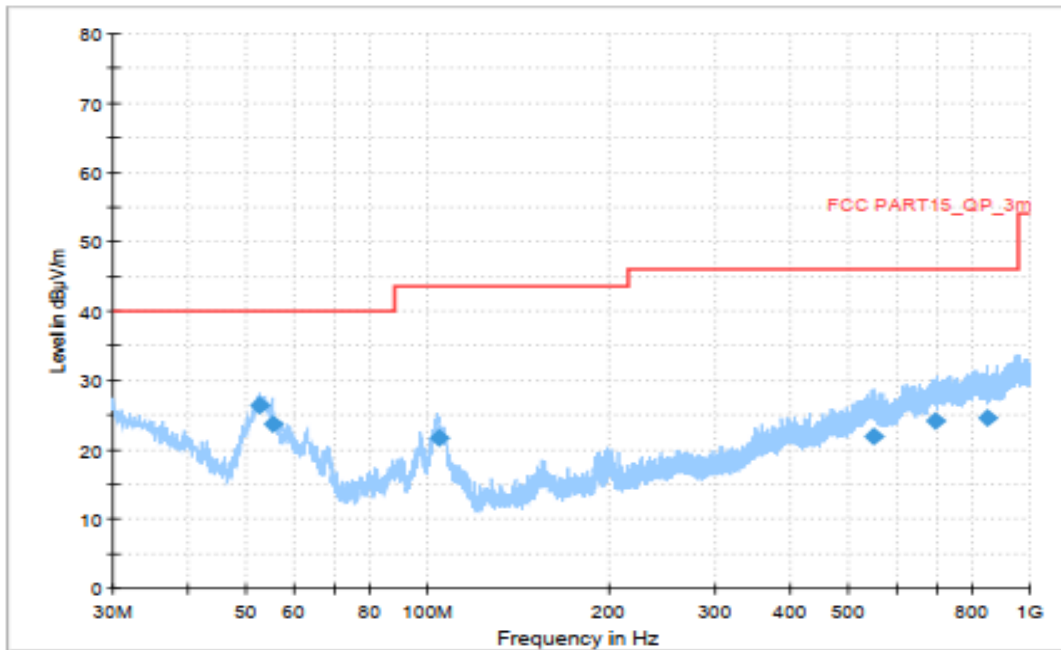


Figure A.1.1. Radiated Emission (Camera , 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
52.471667	26.46	40.00	13.54	V	-22	48.46
55.166111	23.61	40.00	16.39	V	-22	45.61
104.312778	21.65	43.52	21.87	V	-20	41.65
549.596667	21.99	46.02	24.03	V	-4	25.99
694.180556	24.09	46.02	21.93	H	-2	26.09
849.326667	24.66	46.02	21.36	H	-1	25.66

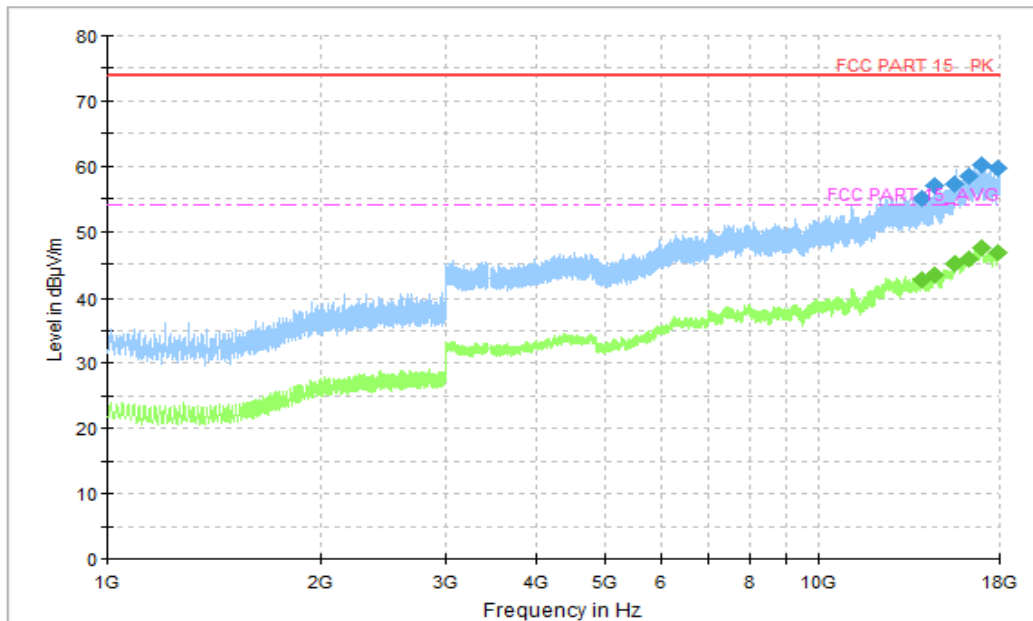


Figure A.1.2. Radiated Emission (Camera , 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
13968.250000	55.13	74.00	18.87	H	17	38.13
14563.000000	56.95	74.00	17.05	V	18	38.95
15565.500000	57.36	74.00	16.64	H	20	37.36
16257.500000	58.49	74.00	15.51	V	21	37.49
16998.250000	60.17	74.00	13.83	V	23	37.17
17905.750000	59.77	74.00	14.23	H	24	35.77

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
13968.250000	42.54	54.00	11.46	H	17	25.54
14563.000000	43.23	54.00	10.77	V	18	25.23
15565.500000	44.96	54.00	9.04	H	20	24.96
16257.500000	45.76	54.00	8.24	V	21	24.76
16998.250000	47.40	54.00	6.60	V	23	24.4
17905.750000	46.81	54.00	7.19	H	24	22.81

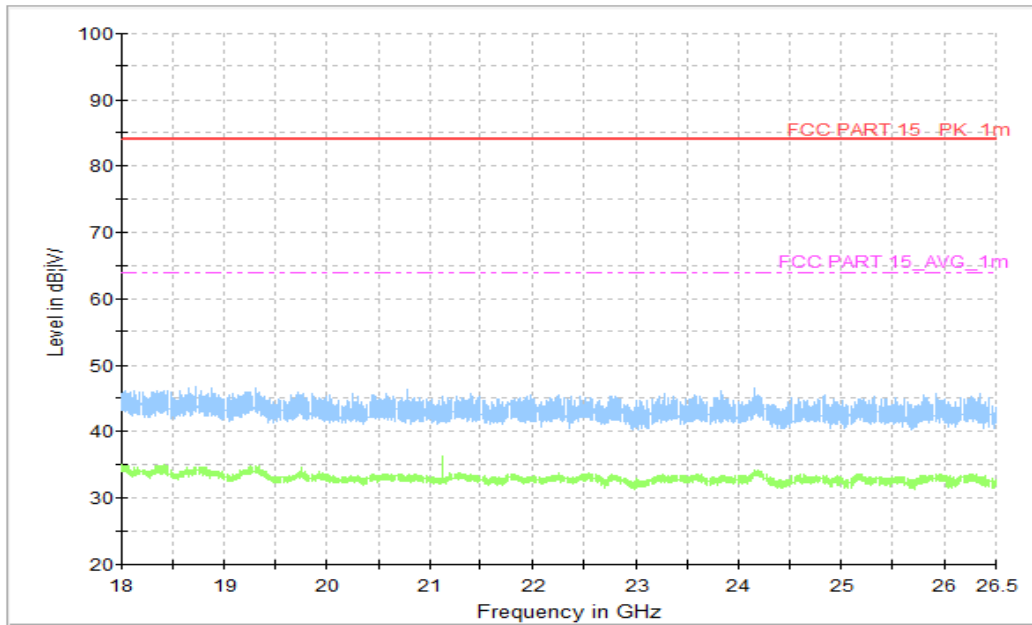


Figure A.1.3. Radiated Emission (Camera , 18GHz to 26.5GHz)

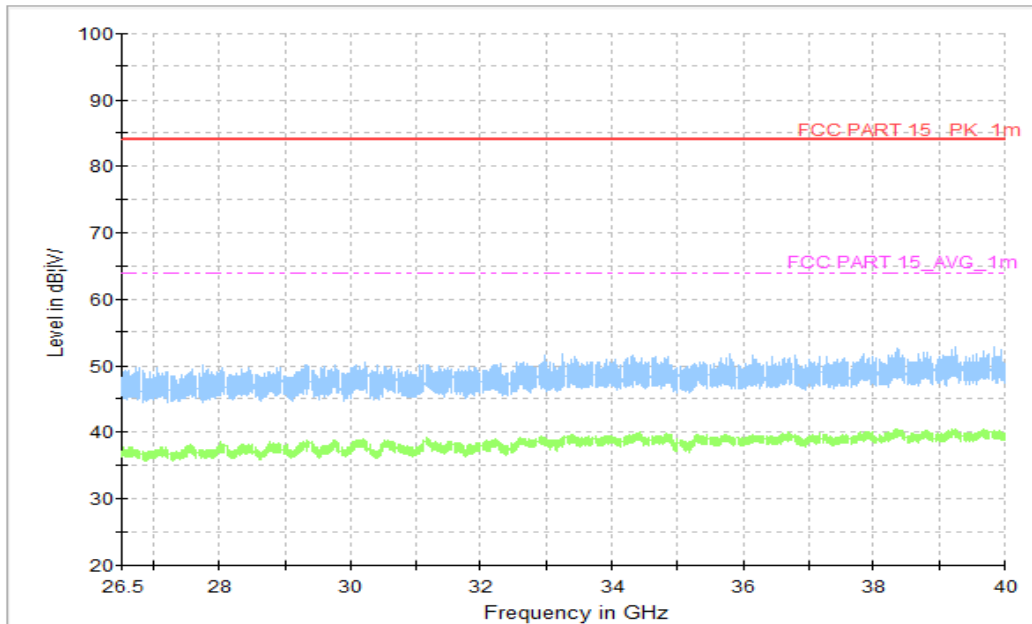


Figure A.1.4. Radiated Emission (Camera , 26.5GHz to 40GHz)

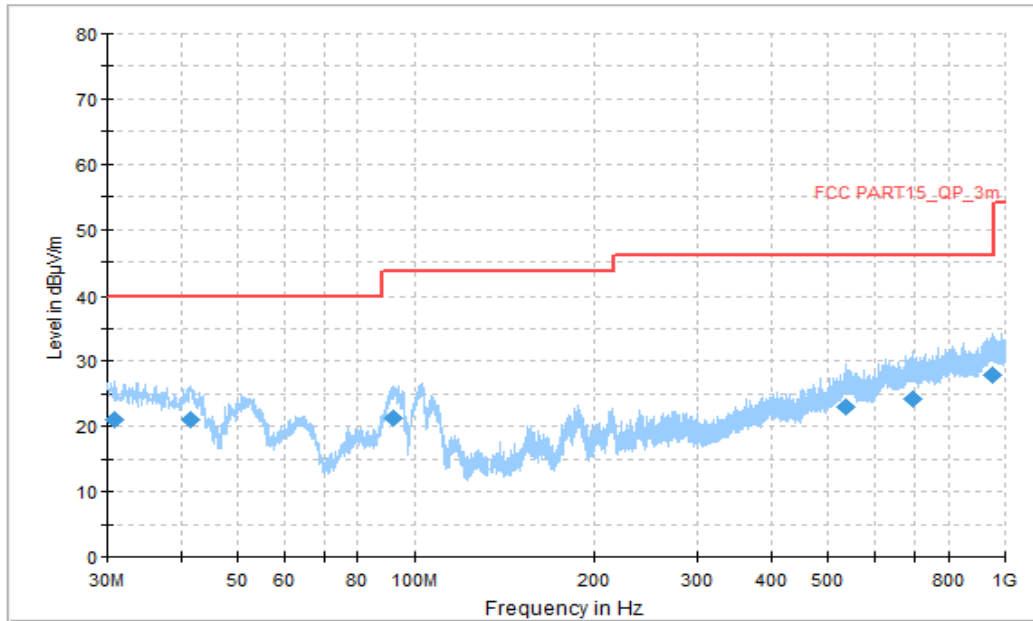


Figure A.1.5. Radiated Emission (Camera , 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
30.934111	21.11	40.00	18.89	H	-13	34.11
41.453444	20.87	40.00	19.13	V	-19	39.87
92.043000	21.35	43.52	22.17	V	-21	42.35
536.262111	22.86	46.02	23.16	H	-4	26.86
698.913478	24.24	46.02	21.78	H	-2	26.24
948.482512	27.86	46.02	18.16	V	1	26.86

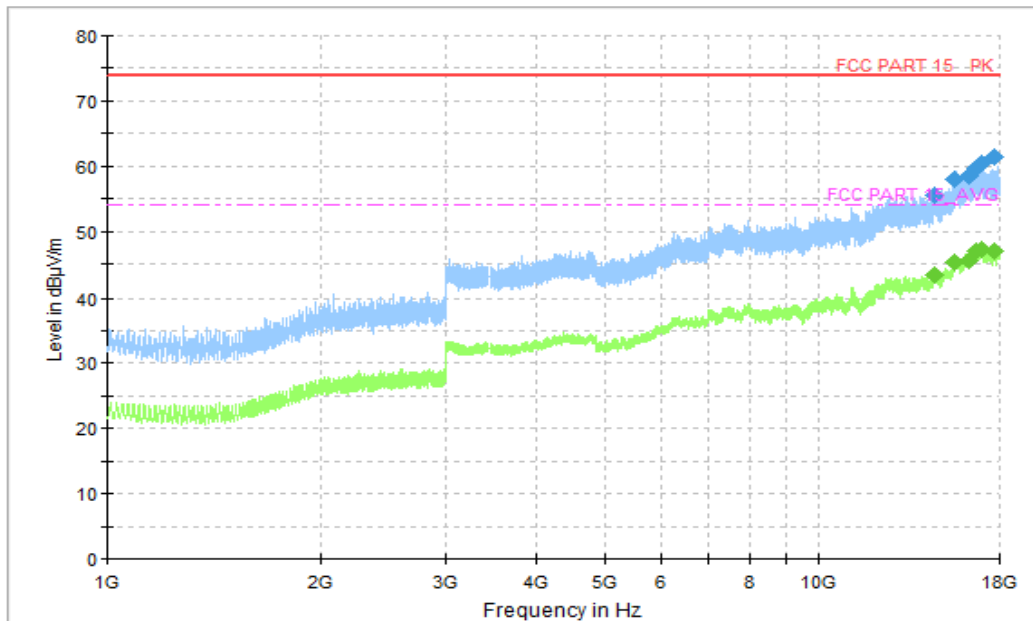


Figure A.1.6. Radiated Emission (Camera , 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
14563.000000	55.56	74.00	18.44	H	18	37.56
15582.500000	57.89	74.00	16.11	V	20	37.89
16274.750000	58.53	74.00	15.47	H	21	37.53
16665.250000	59.75	74.00	14.25	V	22	37.75
17016.500000	60.40	74.00	13.60	V	23	37.4
17699.750000	61.51	74.00	12.49	H	23	38.51

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
14563.000000	43.24	54.00	10.76	H	18	25.24
15582.500000	45.21	54.00	8.79	V	20	25.21
16274.750000	45.58	54.00	8.42	H	21	24.58
16665.250000	46.99	54.00	7.01	V	22	24.99
17016.500000	47.31	54.00	6.69	V	23	24.31
17699.750000	46.96	54.00	7.04	H	23	23.96



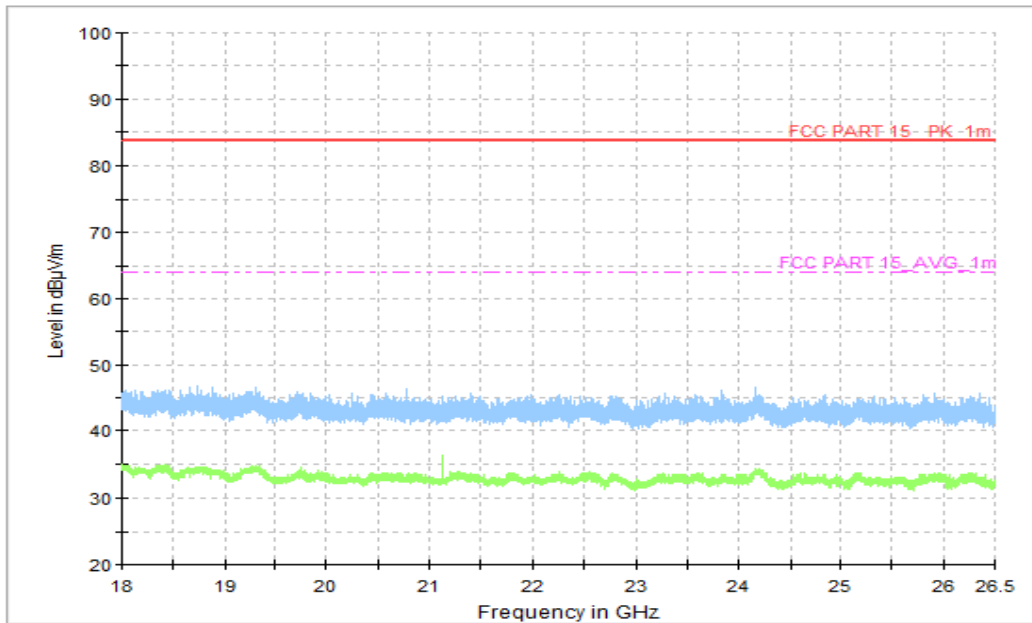


Figure A.1.7. Radiated Emission (Camera , 18GHz to 26.5GHz)

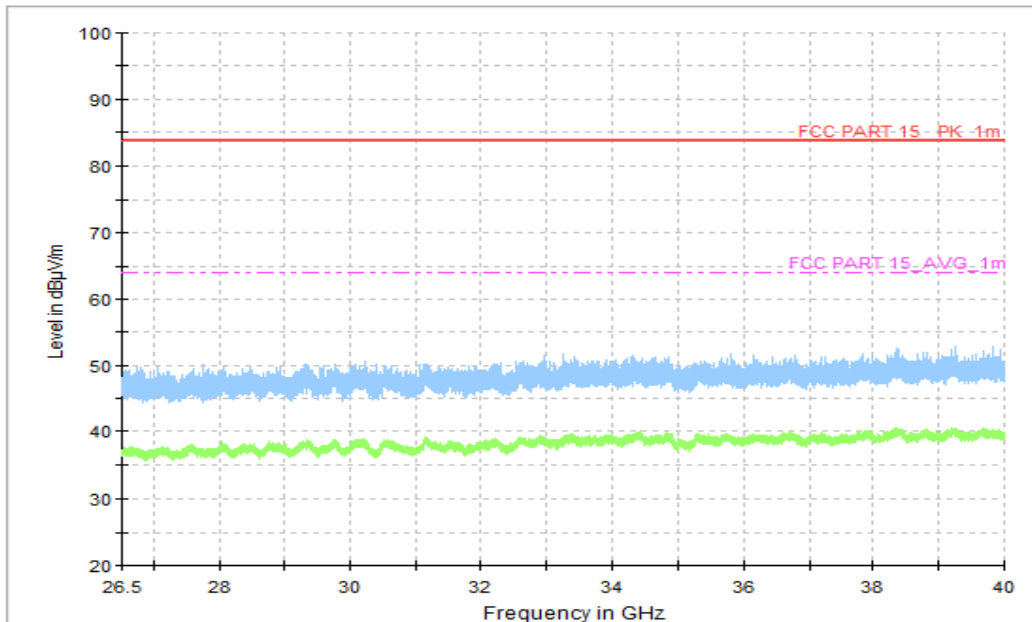


Figure A.1.8. Radiated Emission (Camera , 26.5GHz to 40GHz)

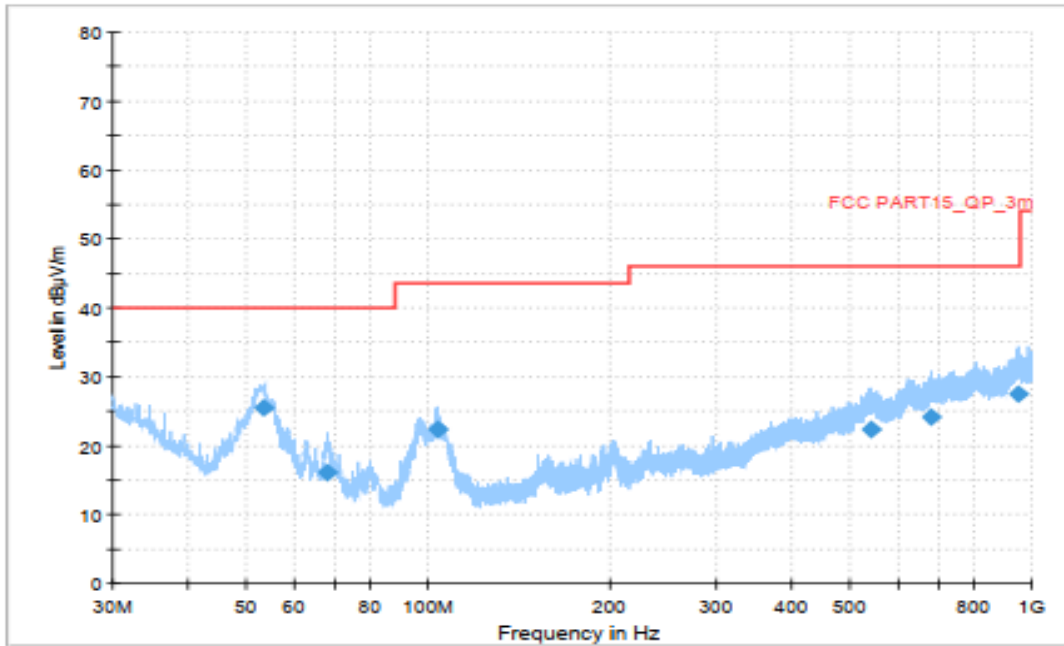


Figure A.1.9. Radiated Emission (Video Player , 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
53.280000	25.41	40.00	14.59	V	-22	47.41
67.937778	16.03	40.00	23.97	V	-21	37.03
103.504444	22.41	43.52	21.11	V	-20	42.41
542.052222	22.26	46.02	23.76	V	-4	26.26
683.564444	24.09	46.02	21.93	H	-2	26.09
948.428333	27.39	46.02	18.63	V	1	26.39

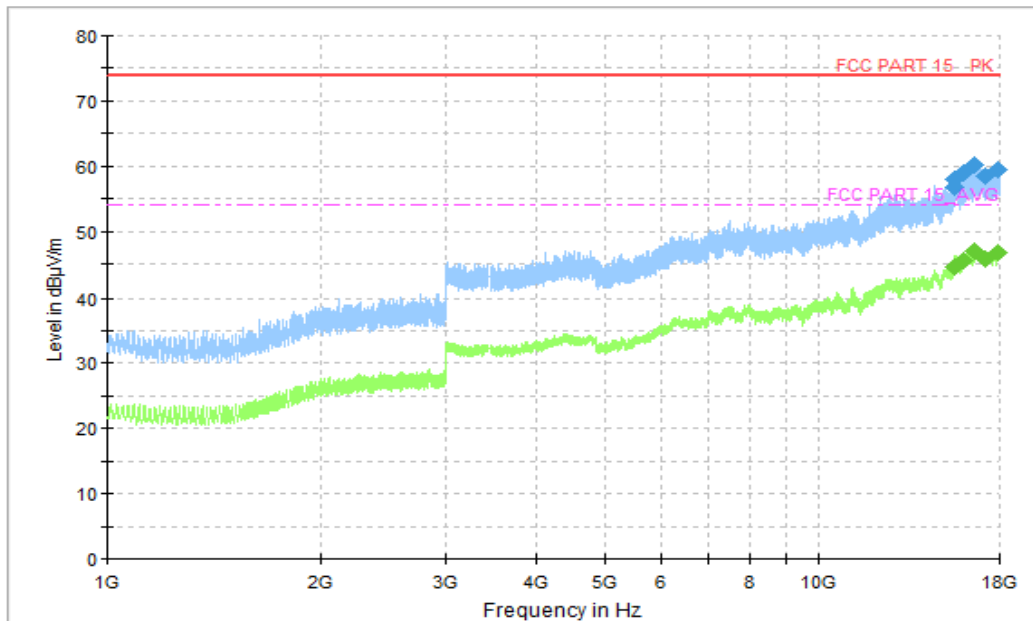


Figure A.1.10. Radiated Emission (Video Player , 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
15546.500000	56.87	74.00	17.13	H	19	37.87
15553.000000	58.03	74.00	15.97	H	19	39.03
16029.250000	58.86	74.00	15.14	H	20	38.86
16587.000000	60.09	74.00	13.91	V	22	38.09
17142.000000	58.35	74.00	15.65	H	21	37.35
17886.500000	59.50	74.00	14.50	H	24	35.50

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
15546.500000	44.45	54.00	9.55	H	19	25.45
15553.000000	44.45	54.00	9.55	H	19	25.45
16029.250000	45.59	54.00	8.41	H	20	25.59
16587.000000	47.05	54.00	6.95	V	22	25.05
17142.000000	45.75	54.00	8.25	H	21	24.75
17886.500000	46.85	54.00	7.15	H	24	22.85

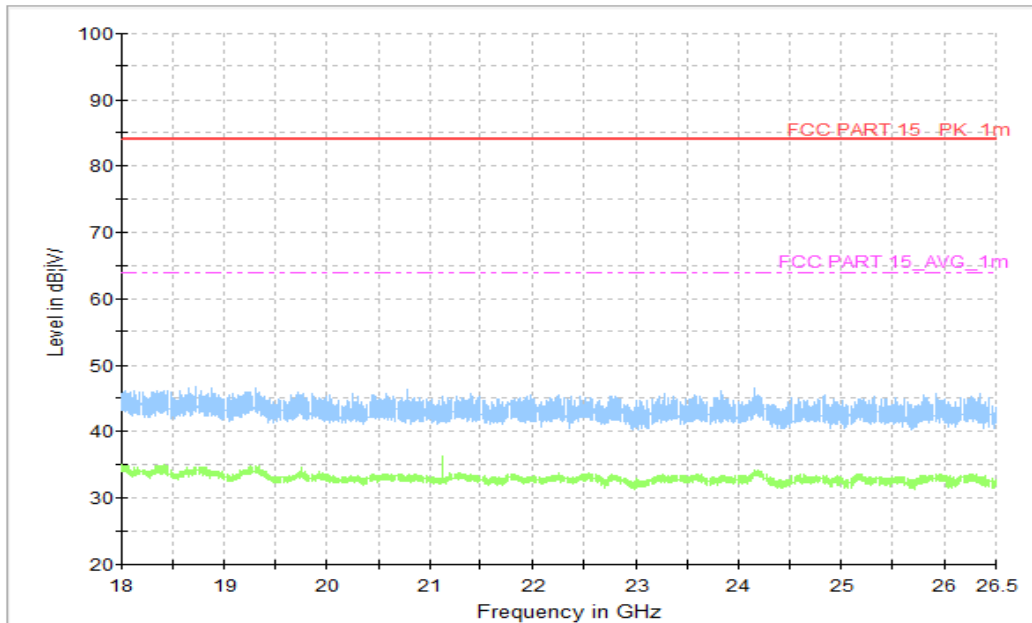


Figure A.1.11. Radiated Emission (Video Player , 18GHz to 26.5GHz)

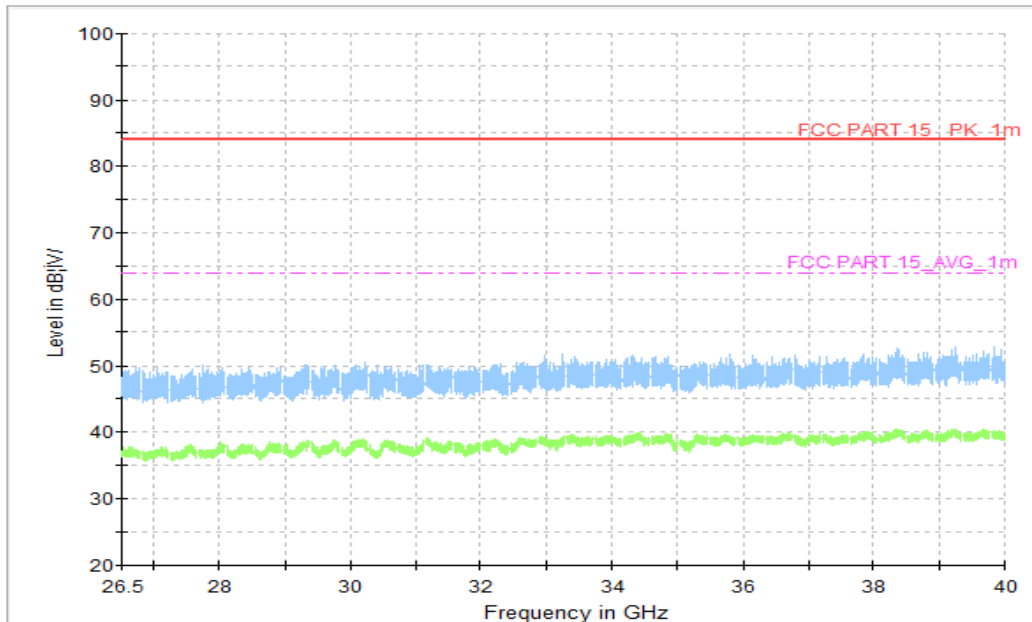


Figure A.1.12. Radiated Emission (Video Player , 26.5GHz to 40GHz)

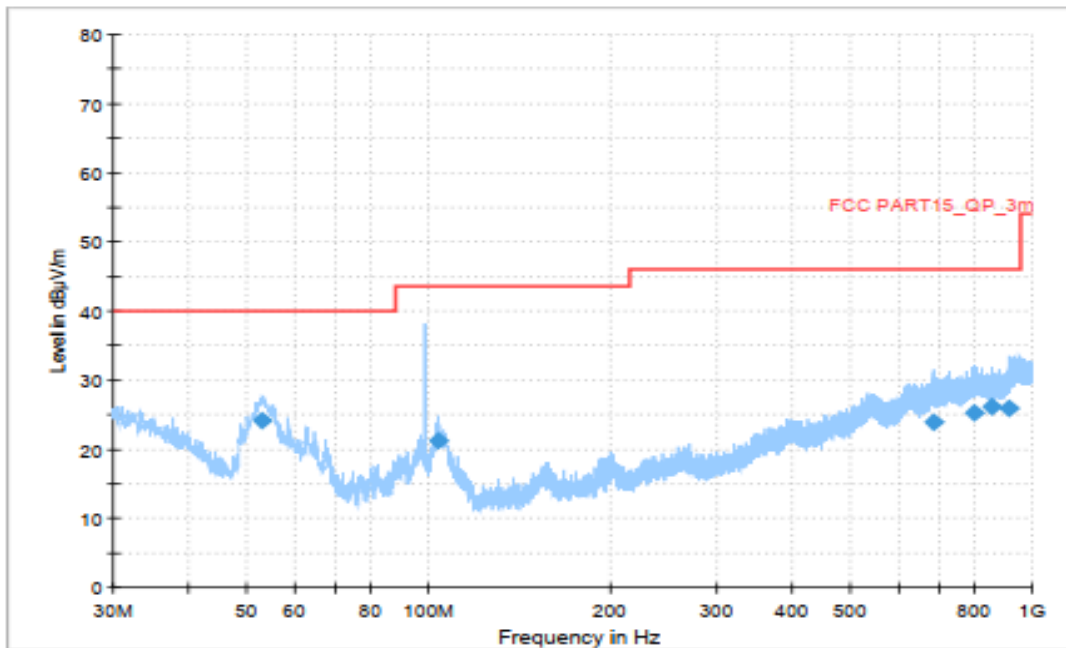


Figure A.1.13. Radiated Emission (FM receiver , 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
53.118333	24.17	40.00	15.83	V	-22	46.17
103.935556	21.18	43.52	22.34	V	-20	41.18
685.720000	24.02	46.02	22.00	V	-2	26.02
802.281667	25.31	46.02	20.71	V	-1	26.31
858.002778	26.15	46.02	19.87	H	-1	27.15
913.292778	25.89	46.02	20.13	V	0	25.89

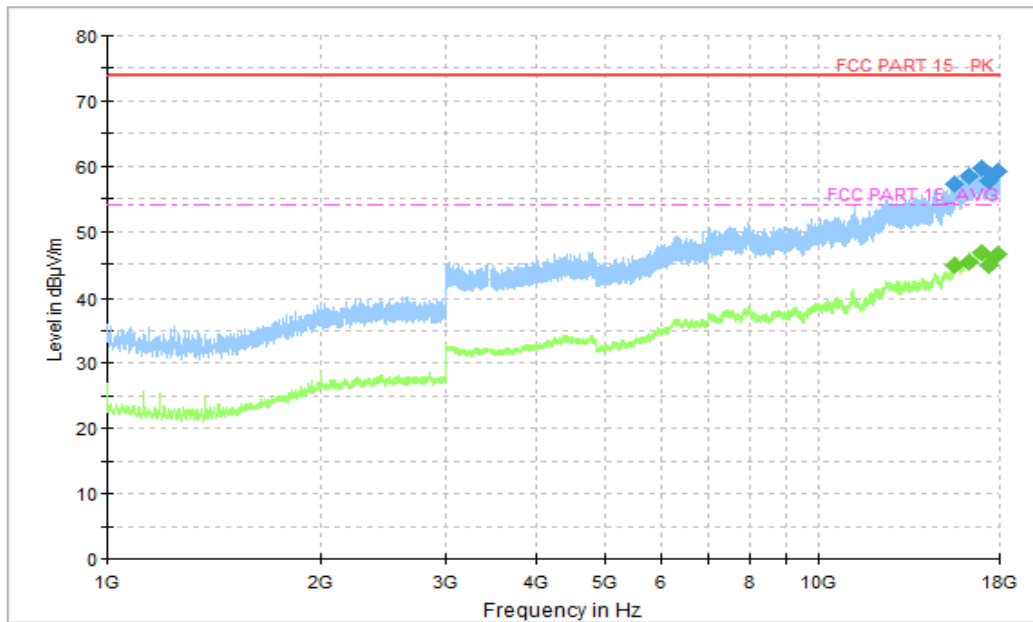


Figure A.1.14. Radiated Emission (FM receiver, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
15577.750000	57.15	74.00	16.85	V	20	37.15
16244.000000	58.40	74.00	15.60	H	21	37.4
16985.500000	59.64	74.00	14.36	H	23	36.64
17340.000000	57.63	74.00	16.37	H	22	35.63
17659.500000	58.78	74.00	15.22	V	23	35.78
17875.250000	59.21	74.00	14.79	H	24	35.21

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
15577.750000	44.67	54.00	9.33	V	20	24.67
16244.000000	45.23	54.00	8.77	H	21	24.23
16985.500000	46.76	54.00	7.24	H	23	23.76
17340.000000	44.88	54.00	9.12	H	22	22.88
17659.500000	45.96	54.00	8.04	V	23	22.96
17875.250000	46.59	54.00	7.41	H	24	22.59

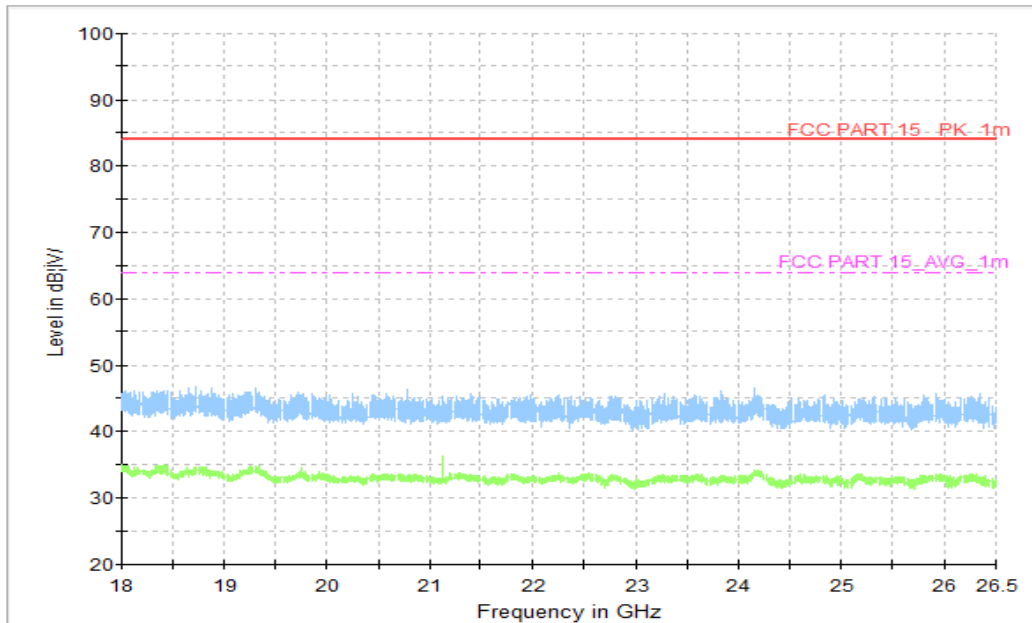


Figure A.1.15. Radiated Emission (FM receiver , 18GHz to 26.5GHz)

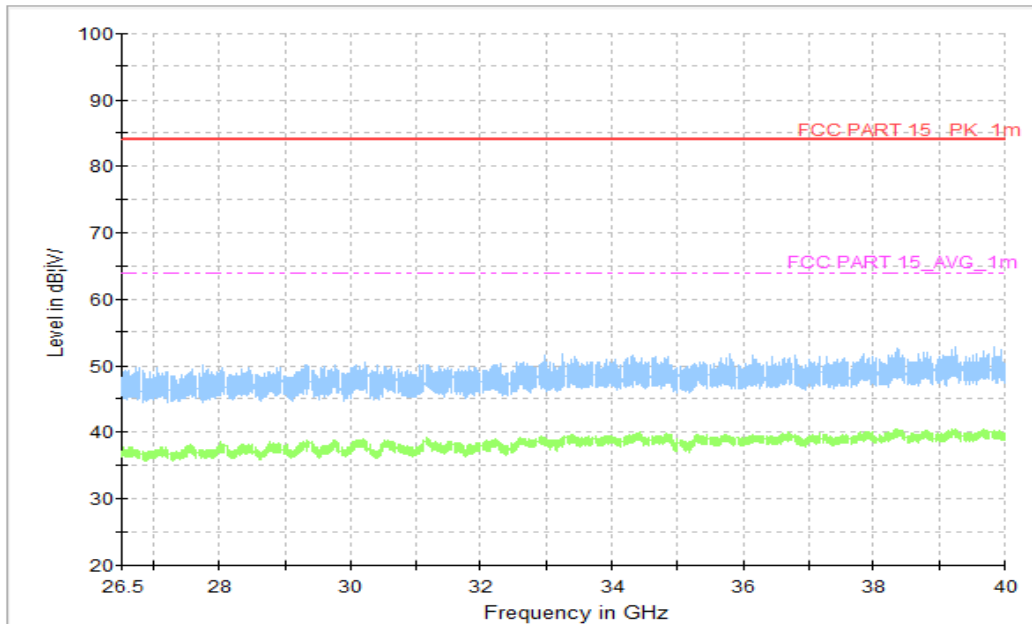


Figure A.1.16. Radiated Emission (FM receiver , 26.5GHz to 40GHz)

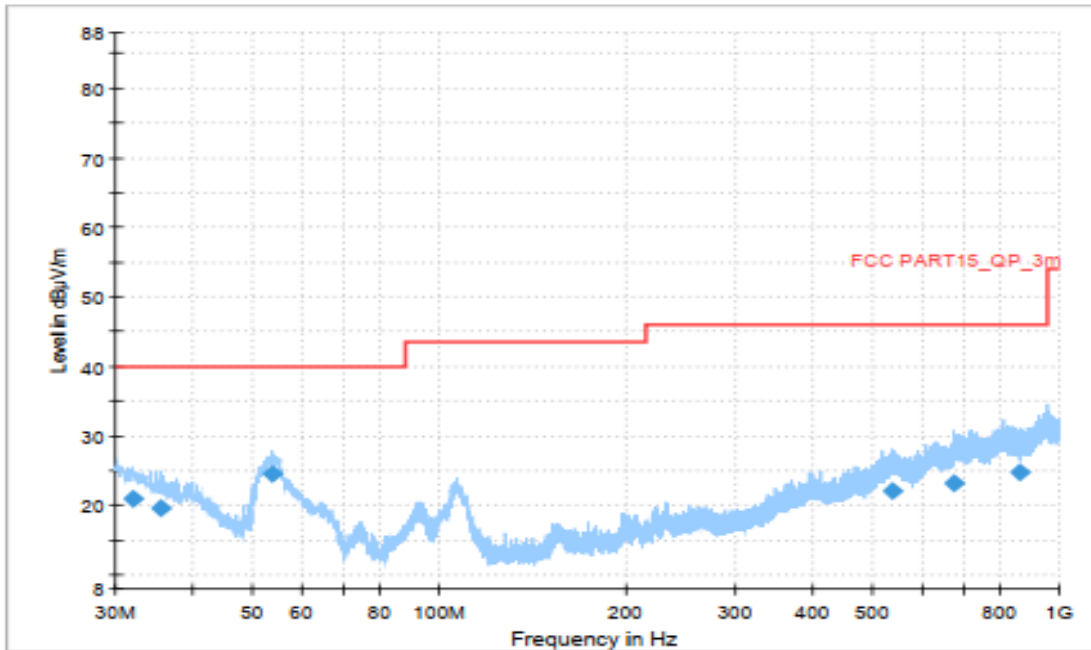


Figure A.1.17. Radiated Emission (GSM receiver 850MHz, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
31.993889	20.95	40.00	19.05	H	-14	34.95
35.442778	19.59	40.00	20.41	V	-16	35.59
53.657222	24.59	40.00	15.41	V	-22	46.59
538.441667	22.18	46.02	23.84	H	-4	26.18
673.810556	23.11	46.02	22.91	H	-3	26.11
861.721111	24.84	46.02	21.18	H	-1	25.84



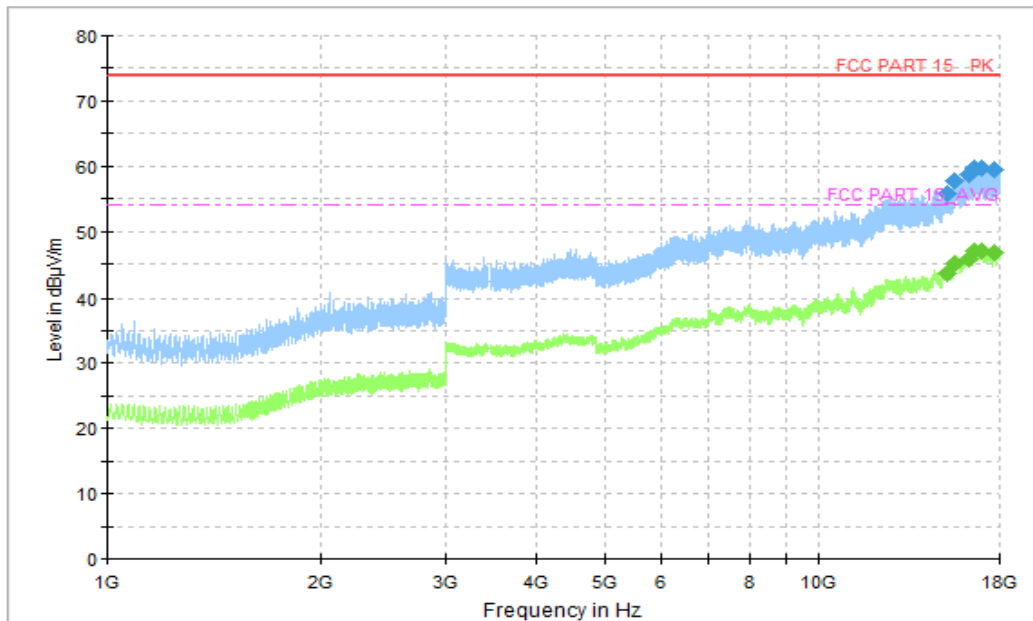


Figure A.1.18. Radiated Emission (GSM receiver 850MHz , 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
15159.750000	55.84	74.00	18.16	H	18	51.30
15581.500000	57.78	74.00	16.22	V	20	50.00
16252.750000	58.69	74.00	15.31	V	21	48.20
16596.500000	59.78	74.00	14.22	H	22	46.90
17012.750000	59.59	74.00	14.41	V	23	46.40
17695.500000	59.37	74.00	14.63	V	23	43.70

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
15159.750000	43.61	54.00	10.39	H	18	38.30
15581.500000	45.07	54.00	8.93	V	20	37.60
16252.750000	45.65	54.00	8.35	V	21	34.90
16596.500000	46.88	54.00	7.12	H	22	33.10
17012.750000	47.02	54.00	6.98	V	23	32.60
17695.500000	46.81	54.00	7.19	V	23	30.90

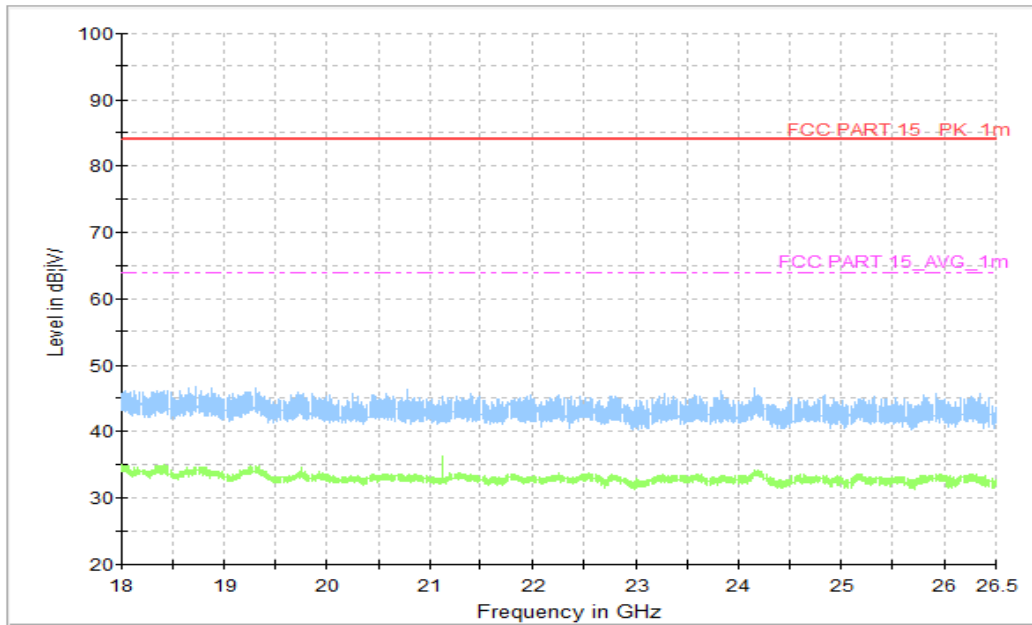


Figure A.1.19. Radiated Emission (GSM receiver 850MHz, 18GHz to 26.5GHz)

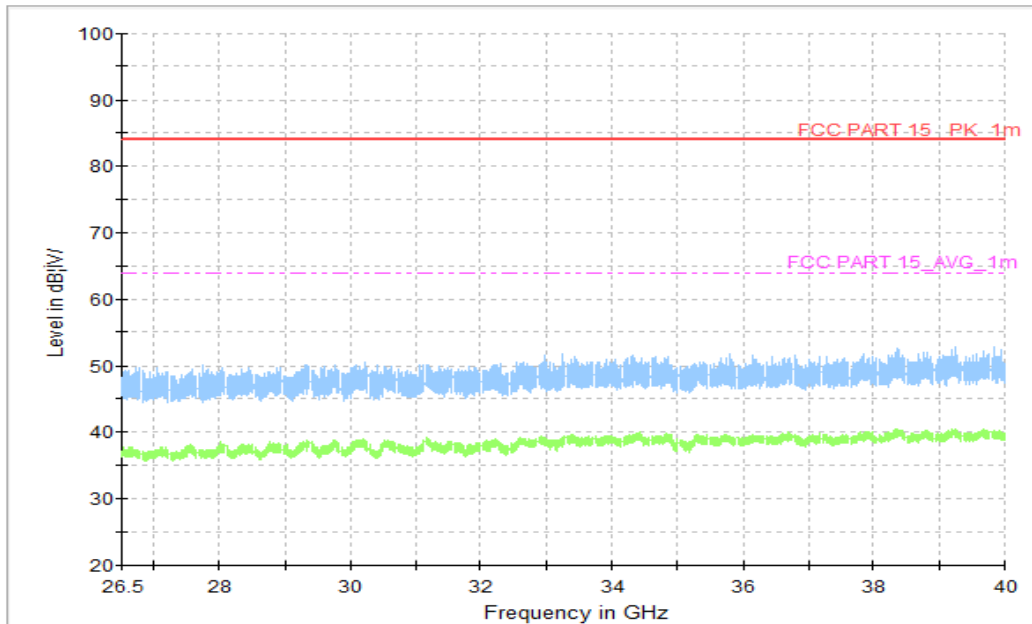


Figure A.1.20. Radiated Emission (GSM receiver 850MHz , 26.5GHz to 40GHz)

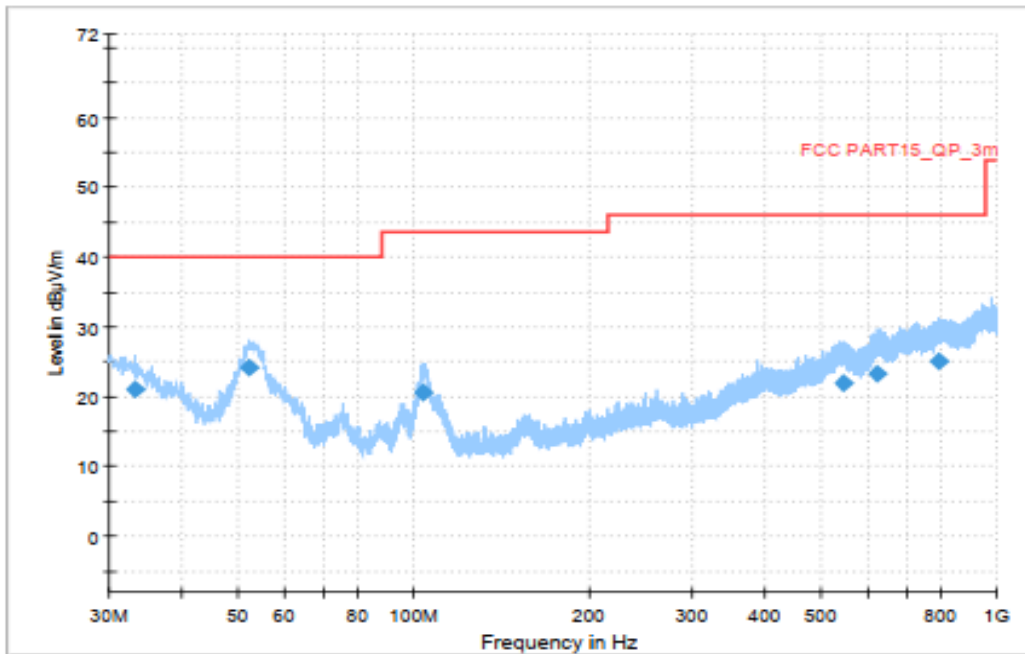


Figure A.1.21. Radiated Emission (WCDMA receiver Band 5, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
33.287222	20.96	40.00	19.04	V	-15	35.96
52.094444	24.25	40.00	15.75	V	-22	46.25
103.504444	20.65	43.52	22.87	V	-20	40.65
545.932222	22.02	46.02	24.00	H	-4	26.02
621.430556	23.37	46.02	22.65	V	-3	26.37
792.958889	25.10	46.02	20.92	V	-1	26.10

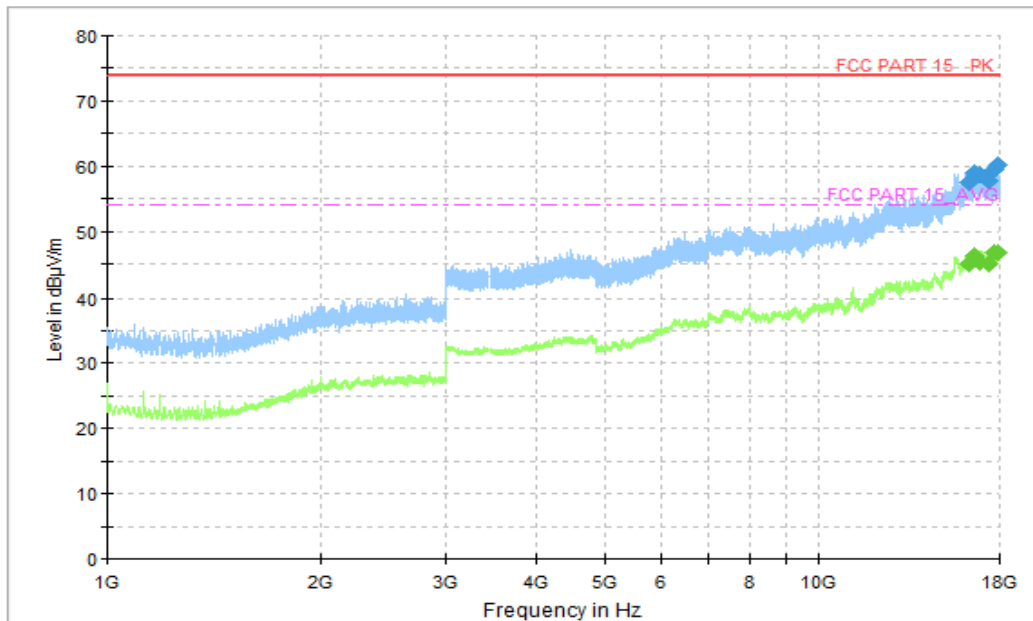


Figure A.1.22. Radiated Emission (WCDMA receiver Band 5, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
16284.250000	57.59	74.00	16.41	H	21	36.59
16575.000000	58.86	74.00	15.14	H	22	36.86
16843.750000	58.76	74.00	15.24	V	22	36.76
17391.250000	57.68	74.00	16.32	H	22	35.68
17704.250000	59.37	74.00	14.63	V	23	36.37
17886.000000	60.25	74.00	13.75	V	24	36.25

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
16284.250000	45.09	54.00	8.91	H	21	24.09
16575.000000	46.23	54.00	7.77	H	22	24.23
16843.750000	45.37	54.00	8.63	V	22	23.37
17391.250000	45.07	54.00	8.93	H	22	23.07
17704.250000	46.70	54.00	7.30	V	23	23.7
17886.000000	46.70	54.00	7.30	V	24	22.70

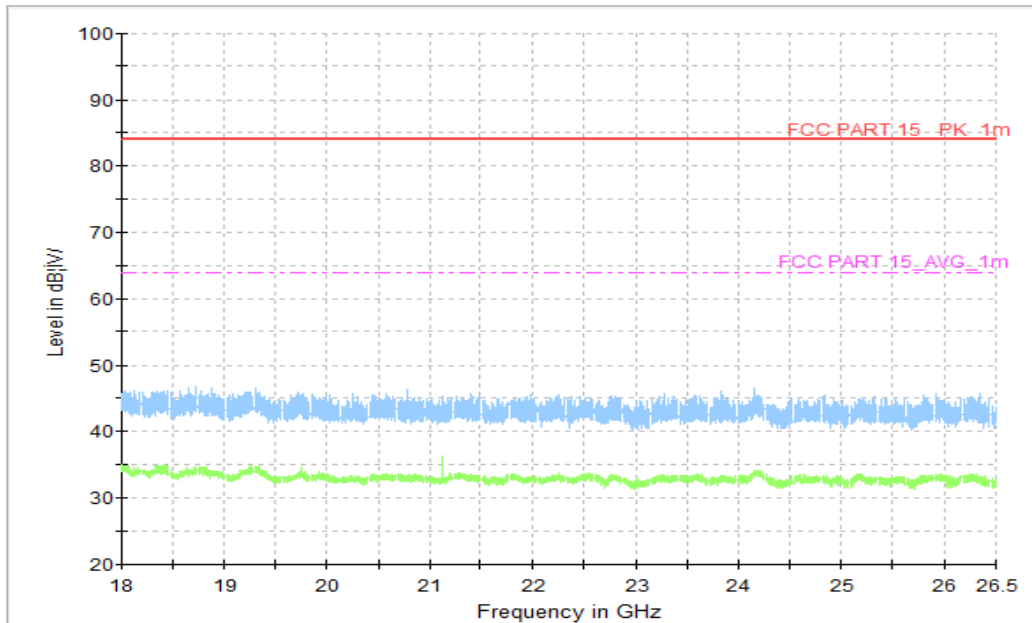


Figure A.1.23. Radiated Emission (WCDMA receiver Band 5 , 18GHz to 26.5GHz)

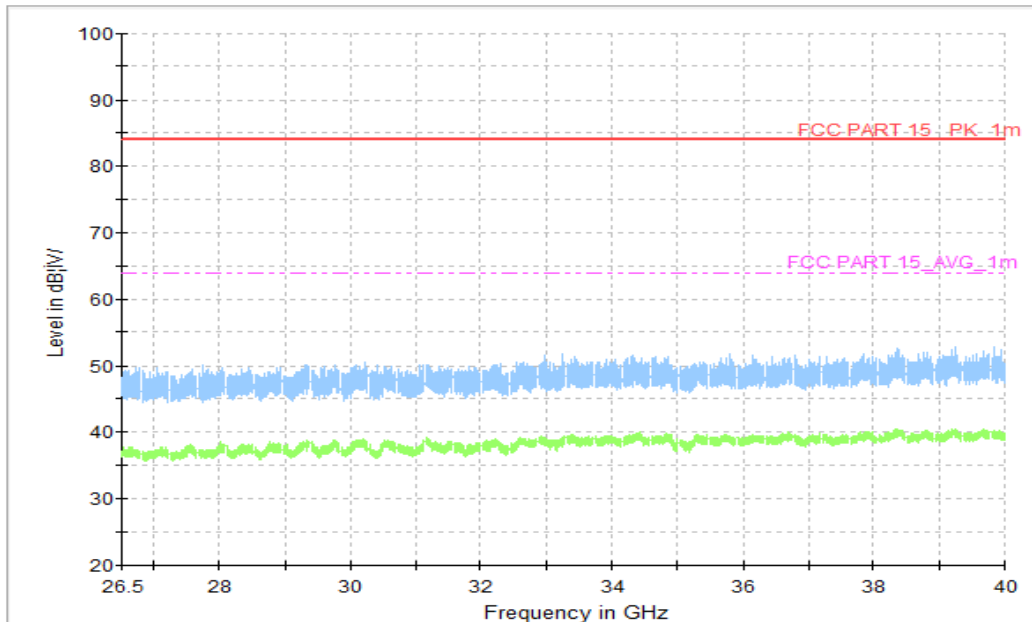


Figure A.1.24. Radiated Emission (WCDMA receiver Band 5 , 26.5GHz to 40GHz)

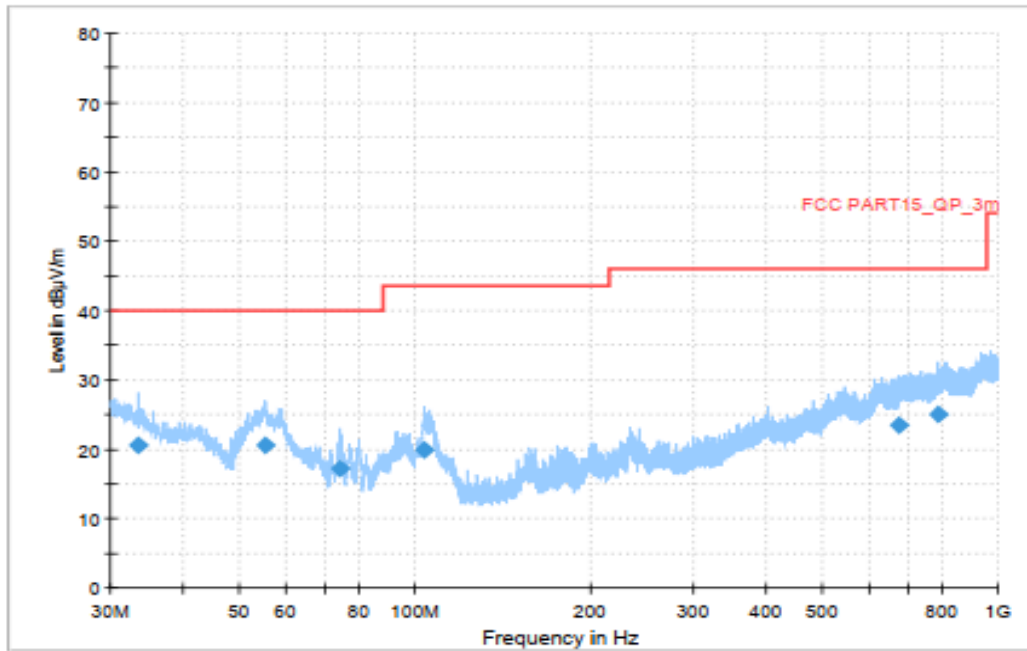


Figure A.1.25. Radiated Emission (LTE receiver Band 5, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
33.556667	20.53	40.00	19.47	H	-15	35.53
55.381667	20.54	40.00	19.46	V	-22	42.54
74.458333	17.24	40.00	22.76	V	-22	39.24
103.504444	19.89	43.52	23.63	V	-20	39.89
676.181667	23.57	46.02	22.45	V	-3	26.57
789.078889	25.12	46.02	20.90	V	-1	26.12

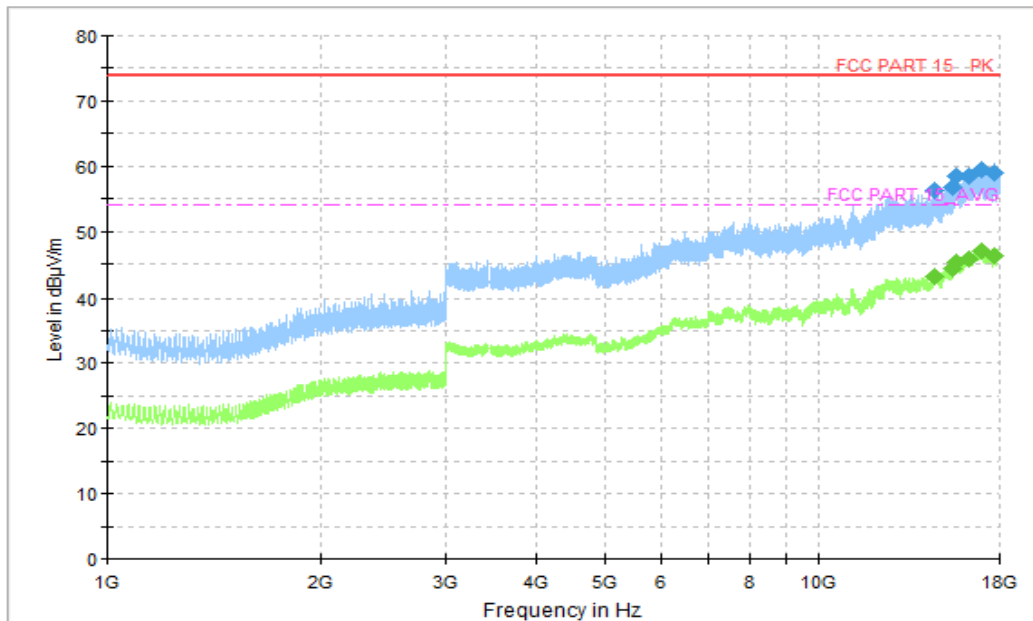


Figure A.1.26. Radiated Emission (LTE receiver Band 5, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
14559.250000	56.25	74.00	17.75	H	18	38.25
15467.750000	56.84	74.00	17.16	H	19	37.84
15635.500000	58.41	74.00	15.59	V	20	38.41
16257.750000	58.49	74.00	15.51	V	21	37.49
16980.500000	59.44	74.00	14.56	V	23	36.44
17664.750000	58.99	74.00	15.01	H	23	35.99

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
14559.250000	43.02	54.00	10.98	H	18	25.02
15467.750000	44.20	54.00	9.80	H	19	25.2
15635.500000	45.35	54.00	8.65	V	20	25.35
16257.750000	45.78	54.00	8.23	V	21	24.78
16980.500000	46.99	54.00	7.01	V	23	23.99
17664.750000	46.32	54.00	7.68	H	23	23.32

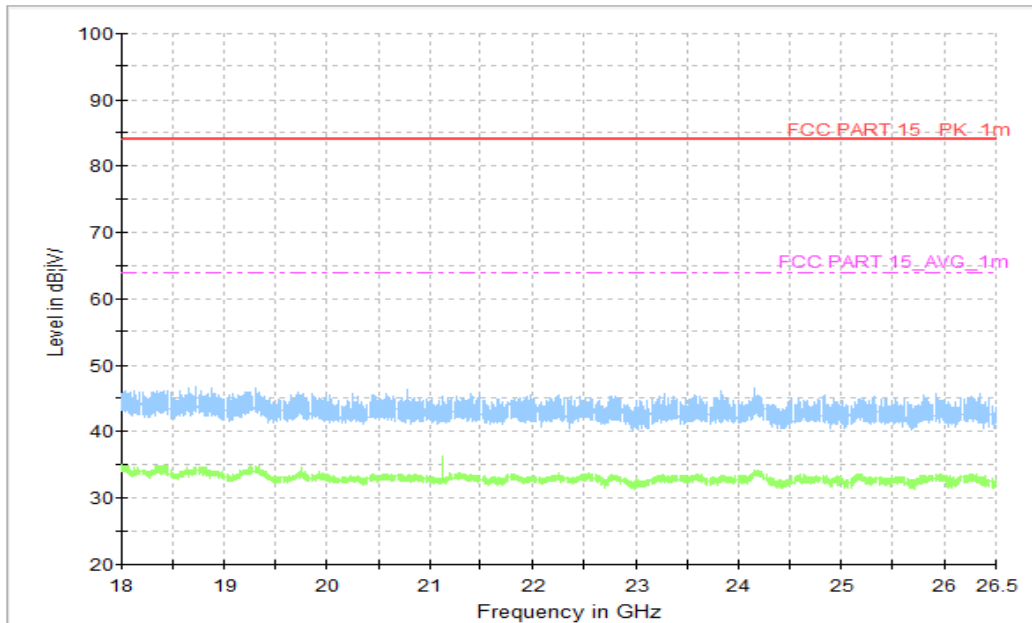


Figure A.1.27. Radiated Emission ((LTE receiver Band 5 , 18GHz to 26.5GHz)

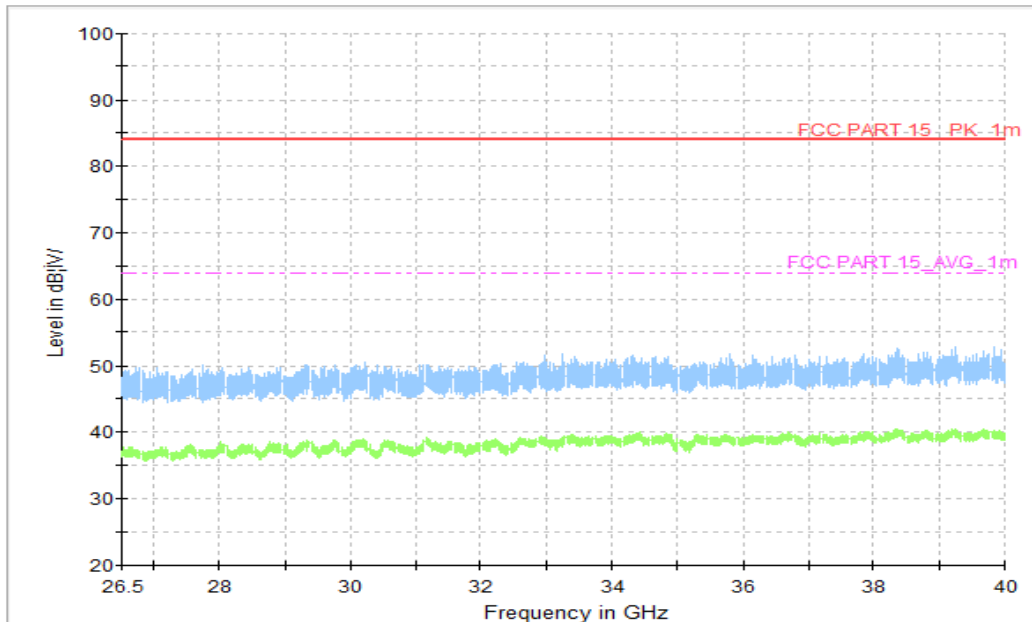


Figure A.1.28. Radiated Emission ((LTE receiver Band 5 , 26.5GHz to 40GHz)



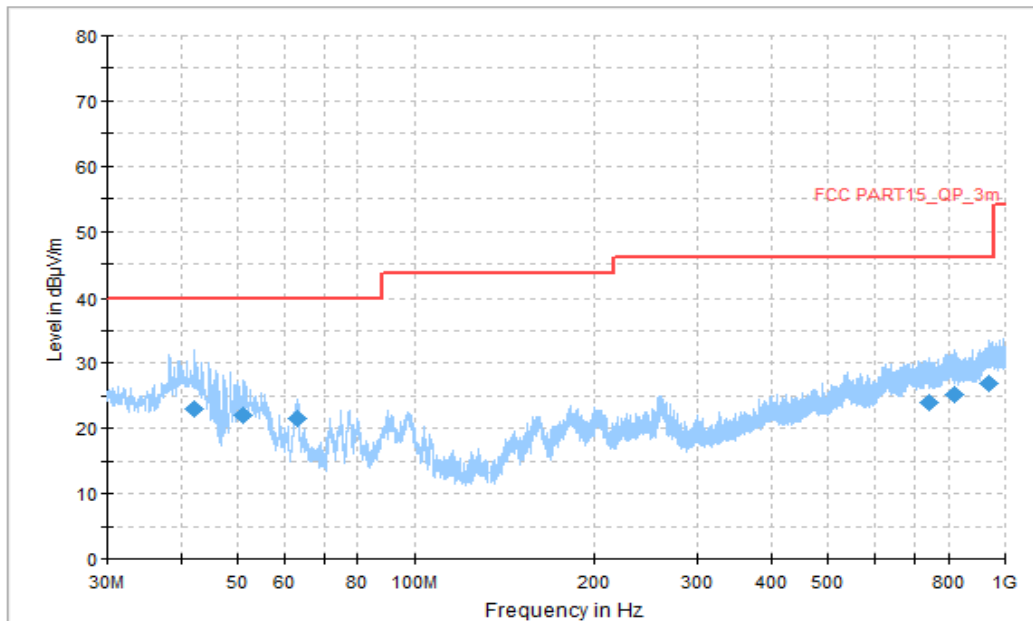


Figure A.1.29. Radiated Emission (LTE receiver Band 12, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
55.112222	24.13	40.00	15.87	V	-22	46.13
103.450556	22.56	43.52	20.96	V	-20	42.56
467.200556	19.47	46.02	26.55	H	-7	26.47
536.070556	22.40	46.02	23.62	V	-4	26.40
620.029444	23.17	46.02	22.85	H	-3	26.17
692.779444	23.92	46.02	22.10	V	-2	25.92

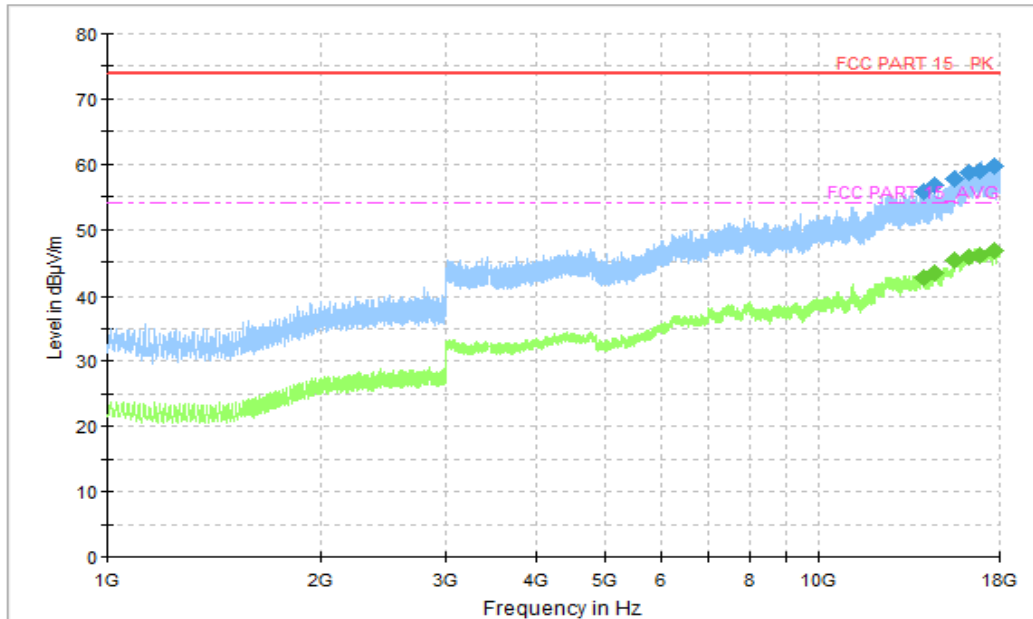


Figure A.1.30. Radiated Emission (LTE receiver Band 12, 1GHz to 18GHz)

Final\_Results\_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
14024.500000	55.76	74.00	18.24	V	17	38.76
14562.750000	56.72	74.00	17.28	V	18	38.72
15567.250000	57.73	74.00	16.27	V	20	37.73
16256.750000	58.69	74.00	15.31	H	21	37.69
16922.000000	59.03	74.00	14.97	V	22	37.03
17686.500000	59.58	74.00	14.42	H	23	36.58

Final\_Results\_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
14024.500000	42.54	54.00	11.46	V	17	25.54
14562.750000	43.20	54.00	10.80	V	18	25.2
15567.250000	45.17	54.00	8.83	V	20	25.17
16256.750000	45.83	54.00	8.17	H	21	24.83
16922.000000	46.00	54.00	8.00	V	22	24
17686.500000	46.69	54.00	7.31	H	23	23.69

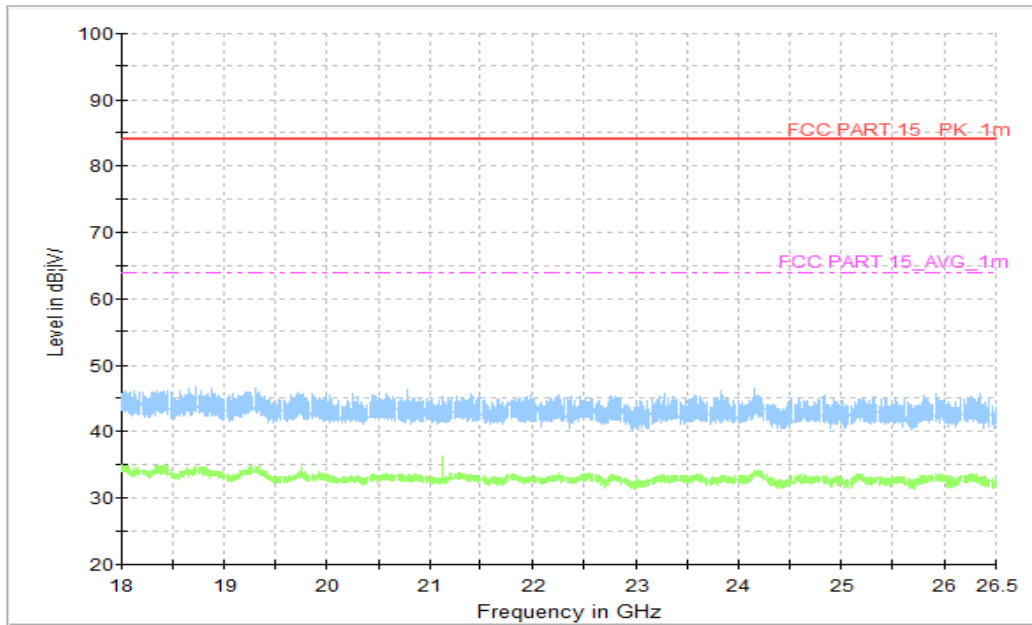


Figure A.1.31. Radiated Emission ((LTE receiver Band 12 , 18GHz to 26.5GHz)

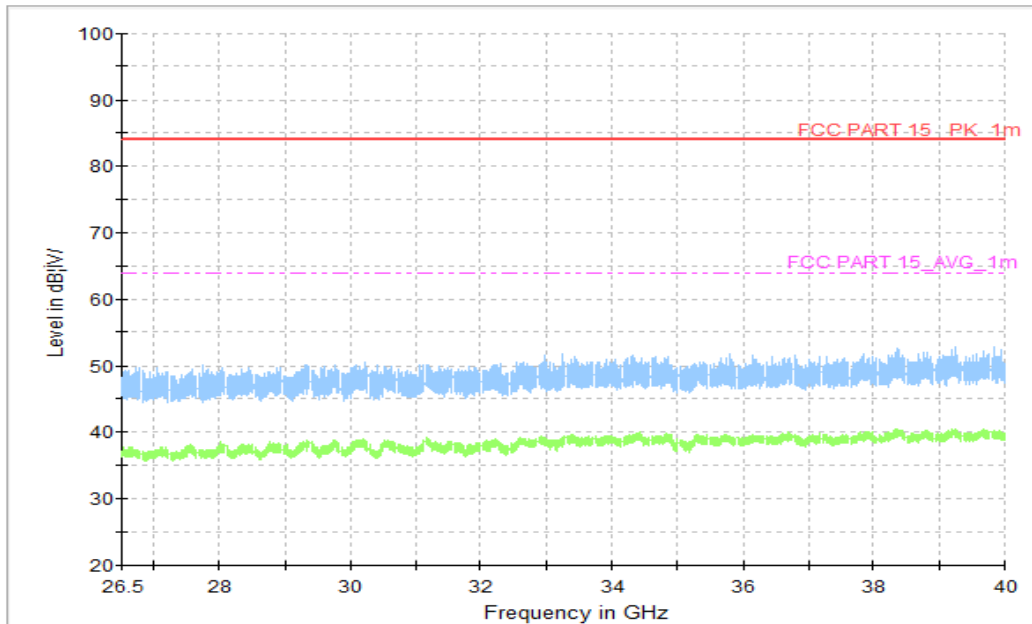


Figure A.1.32. Radiated Emission ((LTE receiver Band 12 , 26.5GHz to 40GHz)

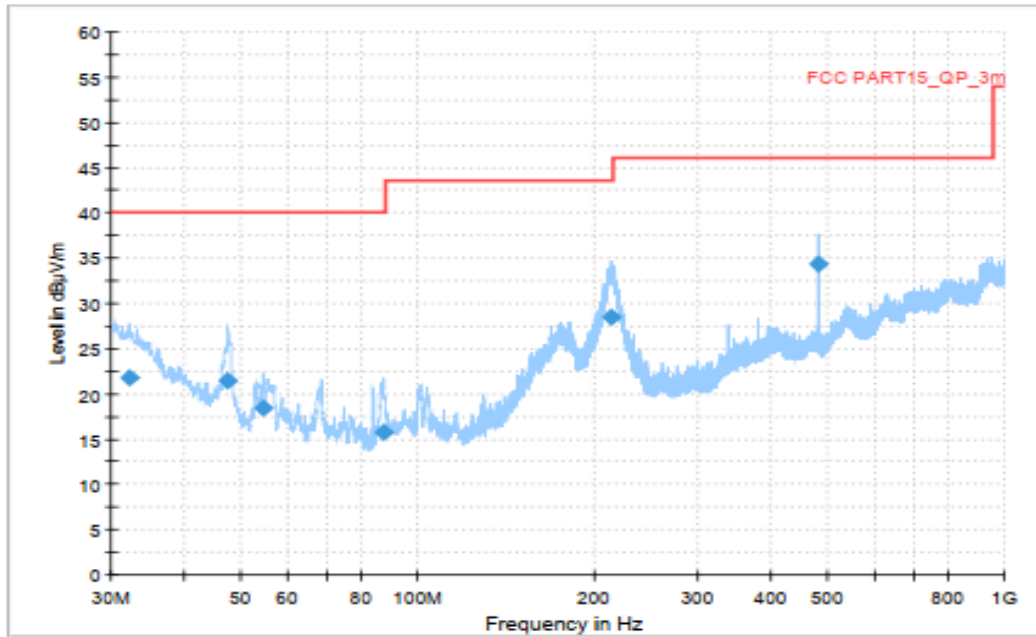


Figure A.1.33. Radiated Emission (Data Transfer: TF TO PC, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
32.263333	21.87	40.00	18.13	V	-14	35.87
47.513889	21.49	40.00	18.51	V	-21	42.49
54.573333	18.42	40.00	21.58	V	-22	40.42
87.337778	15.75	40.00	24.25	H	-22	37.75
214.246111	28.51	43.52	15.01	H	-17	45.51
479.972222	34.31	46.02	11.71	H	-7	41.31

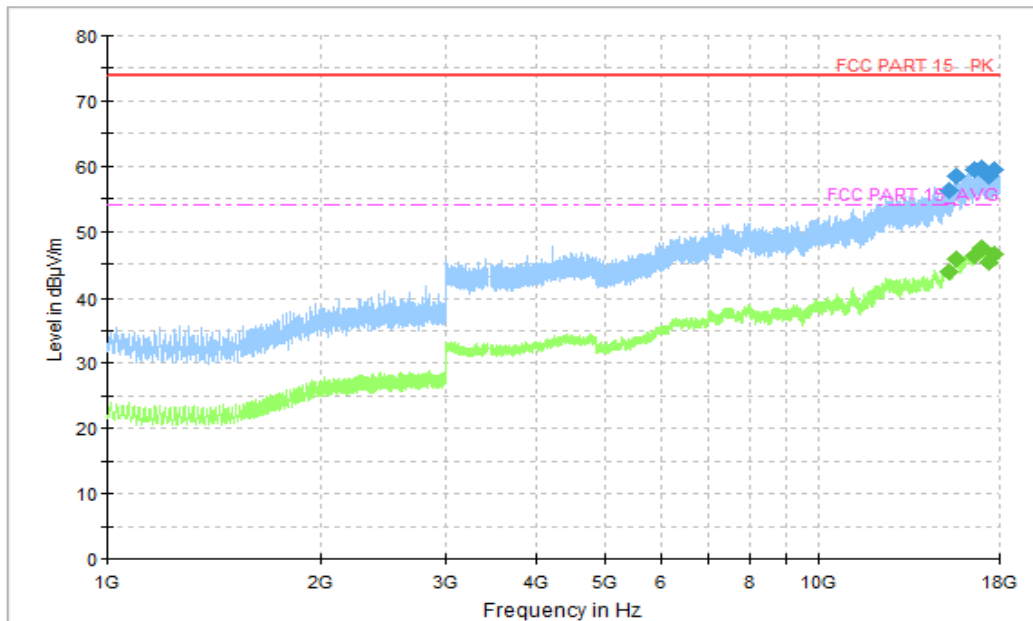


Figure A.1.34. Radiated Emission (Data Transfer: TF TO PC, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
15263.500000	56.17	74.00	17.83	V	19	37.17
15661.750000	58.51	74.00	15.49	H	20	38.51
16575.500000	59.56	74.00	14.44	V	22	37.56
17017.500000	59.72	74.00	14.28	H	23	36.72
17331.500000	58.48	74.00	15.52	V	22	36.48
17717.500000	59.38	74.00	14.62	H	23	36.38

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
15263.500000	43.67	54.00	10.33	V	19	24.67
15661.750000	45.83	54.00	8.17	H	20	25.83
16575.500000	46.22	54.00	7.78	V	22	24.22
17017.500000	47.34	54.00	6.66	H	23	24.34
17331.500000	45.22	54.00	8.78	V	22	23.22
17717.500000	46.49	54.00	7.51	H	23	23.49

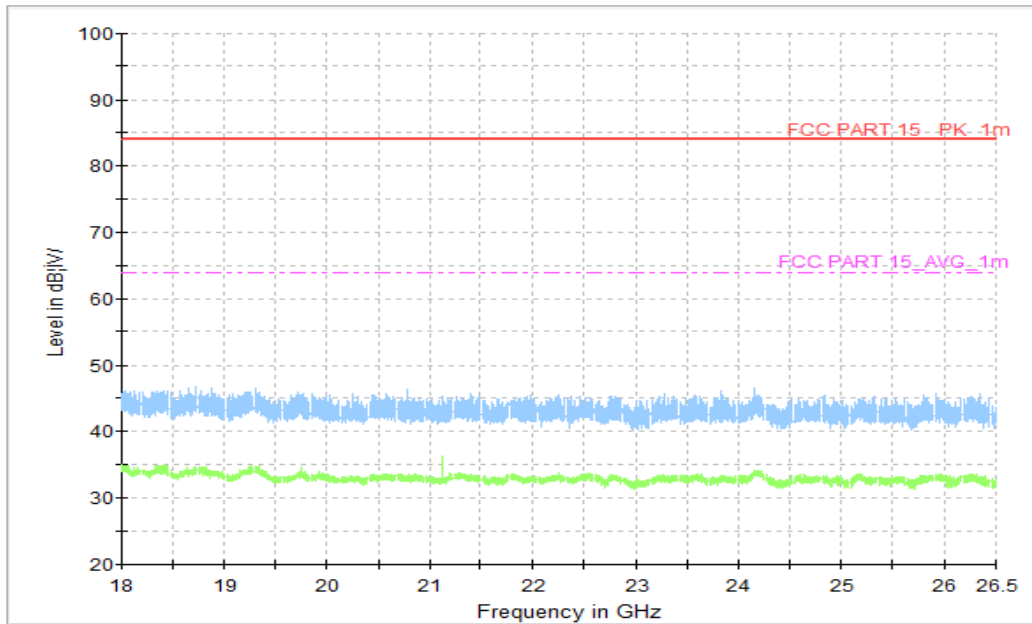


Figure A.1.35. Radiated Emission (Data Transfer: TF TO PC, 18GHz to 26.5GHz)

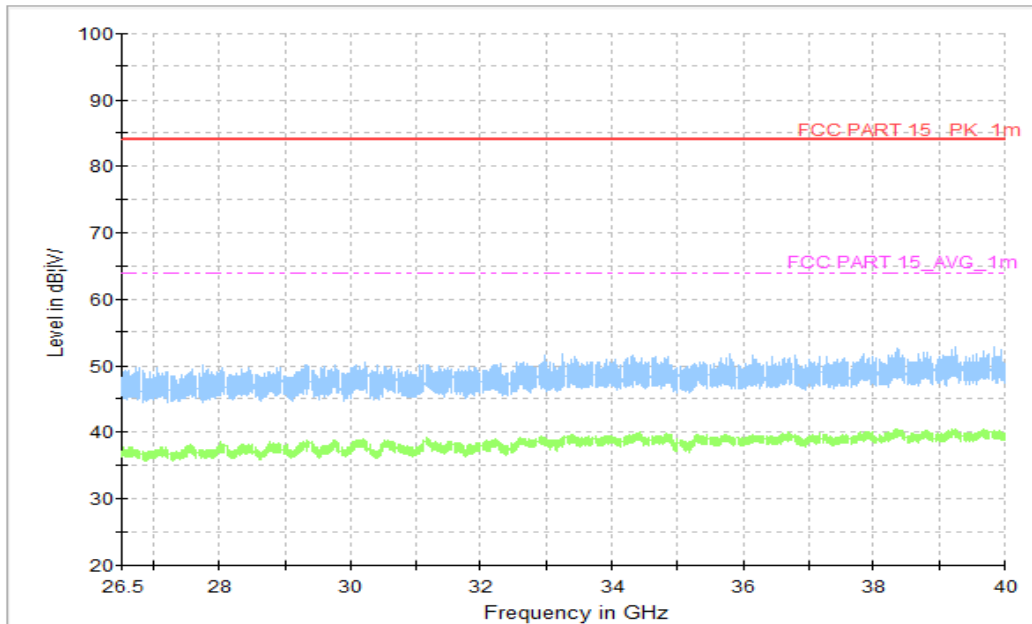


Figure A.1.36. Radiated Emission (Data Transfer: TF TO PC , 26.5GHz to 40GHz)



**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.

**Video Player:** The EUT is connected to a charger for charging and keeping on playing mp3.

**FM receiver:** The EUT is connected to a charger for charging. The EUT is synchronized to a FM signal generator. The EUT is keeping on demodulating the FM signal and outputting the audio signal through the headset.

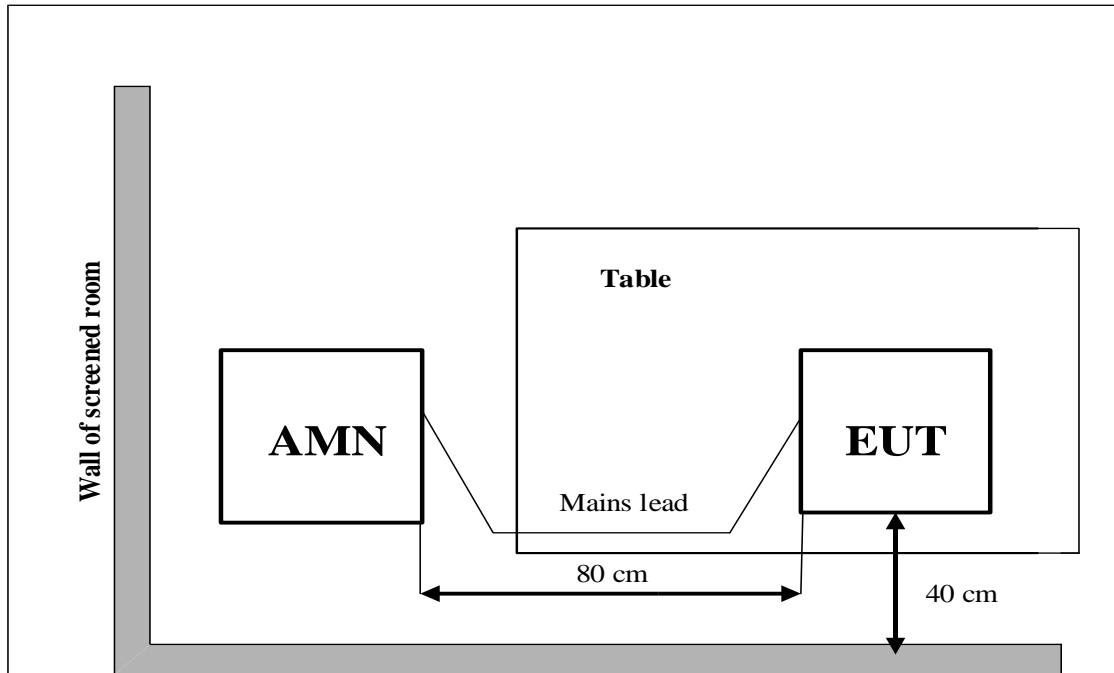
**Data Transfer:** The model of the PC is Lenovo ThinkPad T480, and the serial number of the PC is PF-13LW0C. The EUT is connected to a PC for transmitting data. The software is used to let the PC keep on copying data to EUT or TF Card, reading and erasing the data after copy action was finished.

**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**

$$\text{QuasiPeak(dB}\mu\text{V) /Average(dB}\mu\text{V) =PMea+Corr}$$

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: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
			UT13aa/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.

## Video Player

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
			UT01aa/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.

## FM receiver

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
			UT01aa/Set.1	
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.

## Data Transfer

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
			UT01aa/Set.2	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.5.	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 (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
			UT01aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.6.	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 (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
			UT13aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.7.	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.

Video Player

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
			UT01aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.8.	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.

FM receiver

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
			UT01aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.9.	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 (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
			UT01aa/Set.2	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.10.	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

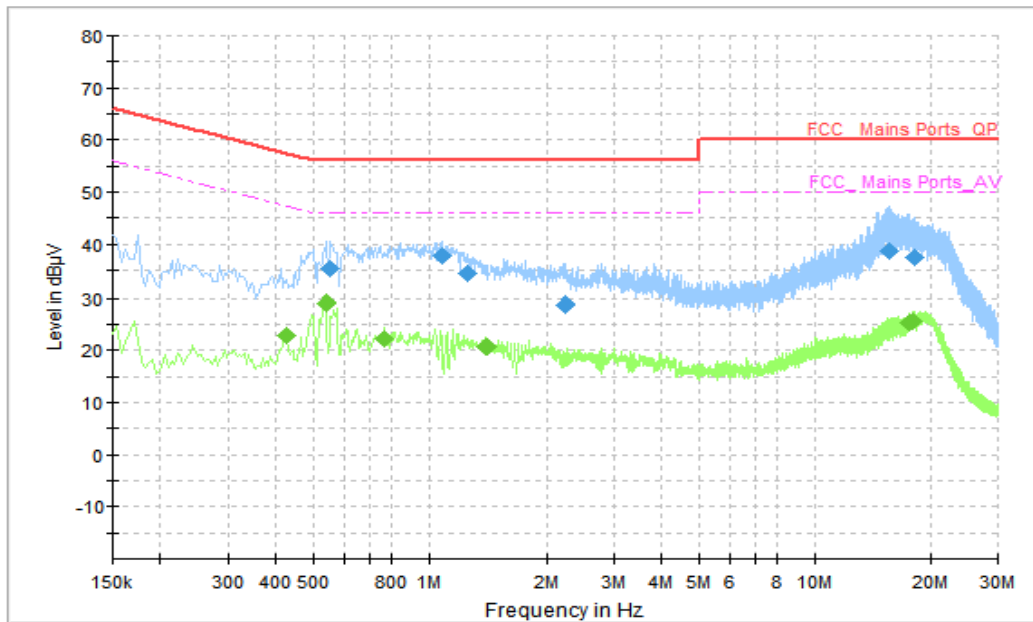


Figure A.2.1. Conducted Emission(Camera)

Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.550000	35.44	56.00	20.56	N	10	25.44
1.078000	37.81	56.00	18.19	L1	10	27.81
1.266000	34.33	56.00	21.67	L1	10	24.33
2.242000	28.73	56.00	27.27	N	10	18.73
15.562000	38.70	60.00	21.30	N	10	28.7
18.222000	37.34	60.00	22.66	N	10	27.34

Final\_Result\_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.426000	22.73	47.33	24.60	L1	10	12.73
0.538000	29.00	46.00	17.00	L1	10	19
0.766000	22.17	46.00	23.83	L1	10	12.17
1.406000	20.74	46.00	25.26	N	10	10.74
17.622000	25.16	50.00	24.84	N	10	15.16
18.070000	25.68	50.00	24.32	N	10	15.68

AC Input Port/ Voltage: 120V/60Hz

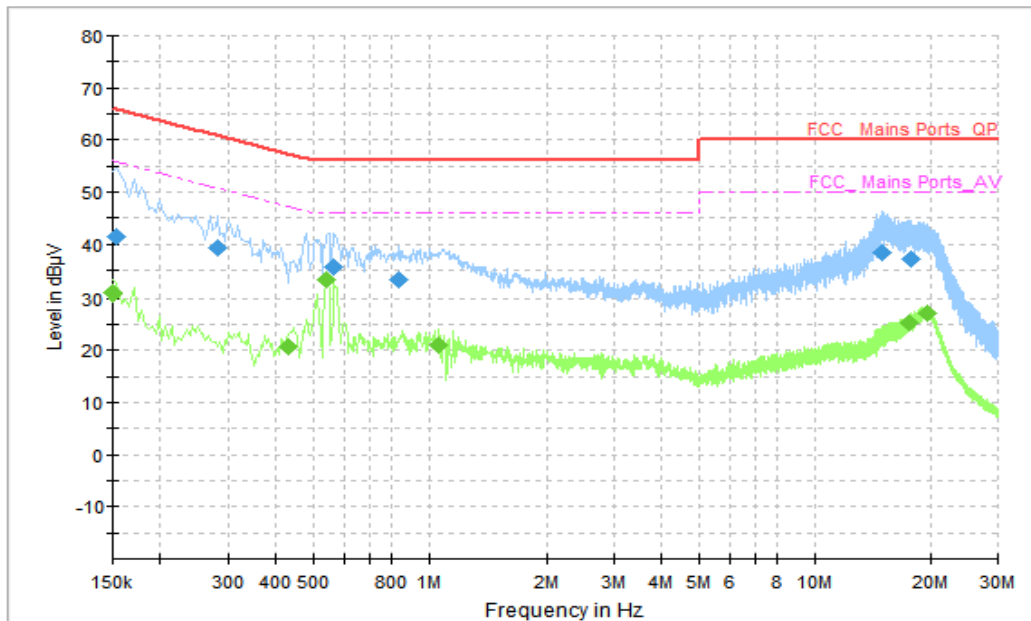


Figure A.2.2. Conducted Emission(Camera)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.154000	41.54	65.78	24.25	N	10	31.54
0.282000	39.35	60.76	21.41	N	10	29.35
0.566000	35.66	56.00	20.34	N	10	25.66
0.838000	33.18	56.00	22.82	N	10	23.18
14.946000	38.41	60.00	21.59	L1	10	28.41
17.886000	37.20	60.00	22.80	L1	10	27.20

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.150000	30.66	56.00	25.34	N	10	20.66
0.430000	20.77	47.25	26.49	N	10	10.77
0.542000	33.10	46.00	12.90	N	10	23.10
1.062000	20.94	46.00	25.06	N	10	10.94
17.590000	25.13	50.00	24.87	L1	10	15.13
19.618000	27.05	50.00	22.95	L1	10	17.05

AC Input Port/ Voltage: 120V/60Hz

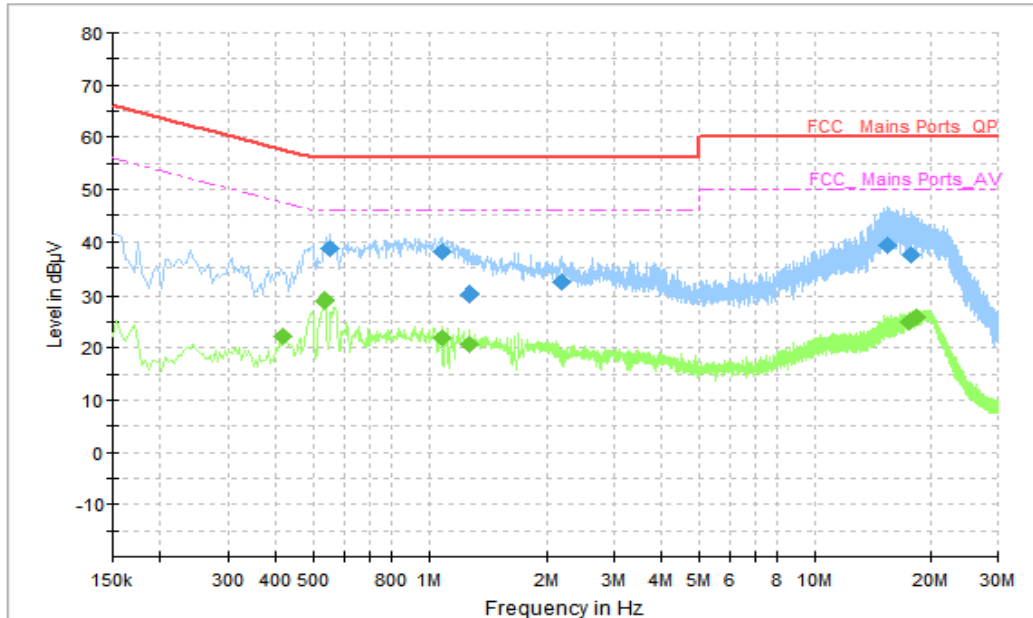


Figure A.2.3. Conducted Emission(Video Player)

Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.550000	38.58	56.00	17.42	L1	10	28.58
1.078000	38.01	56.00	17.99	L1	10	28.01
1.274000	30.22	56.00	25.78	N	10	20.22
2.202000	32.17	56.00	23.83	N	10	22.17
15.506000	39.45	60.00	20.55	N	10	29.45
17.746000	37.41	60.00	22.59	N	10	27.41

Final\_Result\_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.418000	22.20	47.49	25.28	L1	10	12.20
0.534000	29.04	46.00	16.96	L1	10	19.04
1.078000	21.98	46.00	24.02	L1	10	11.98
1.274000	20.73	46.00	25.27	N	10	10.73
17.594000	24.99	50.00	25.01	N	10	14.99
18.478000	25.81	50.00	24.19	N	10	15.81

AC Input Port/ Voltage: 120V/60Hz

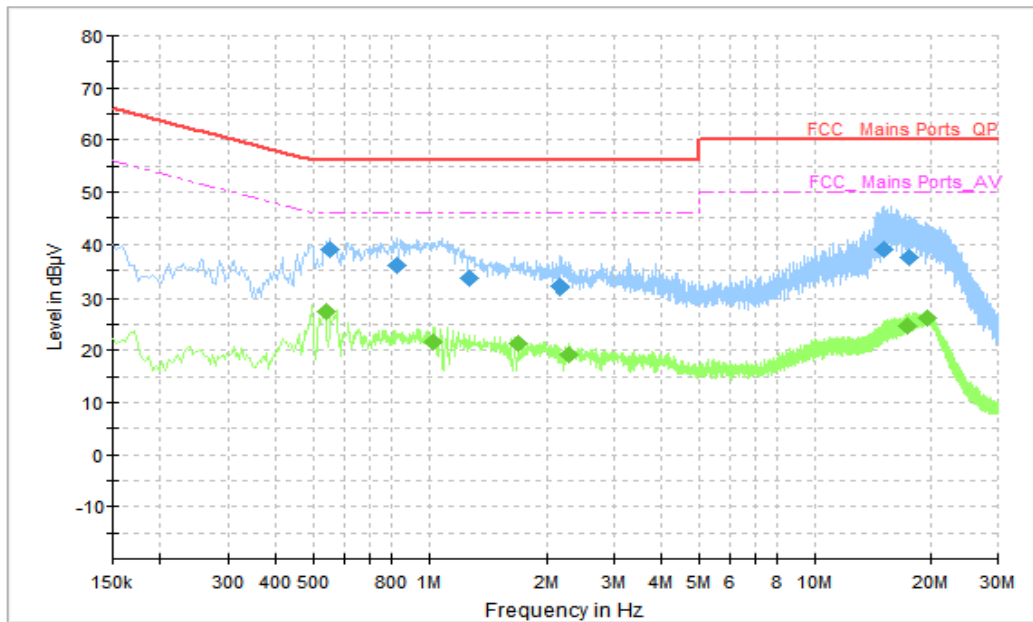


Figure A.2.4. Conducted Emission(FM receiver)

Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.550000	38.92	56.00	17.08	L1	10	28.92
0.826000	36.04	56.00	19.96	L1	10	26.04
1.270000	33.52	56.00	22.48	L1	10	23.52
2.162000	31.85	56.00	24.15	N	10	21.85
15.070000	39.00	60.00	21.00	N	10	29
17.706000	37.61	60.00	22.39	N	10	27.61

Final\_Result\_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.538000	27.27	46.00	18.73	L1	10	17.27
1.022000	21.73	46.00	24.27	L1	10	11.73
1.694000	21.35	46.00	24.65	N	10	11.35
2.278000	19.21	46.00	26.79	N	10	9.21
17.358000	24.72	50.00	25.28	N	10	14.72
19.642000	26.07	50.00	23.93	N	10	16.07

AC Input Port/ Voltage: 120V/60Hz

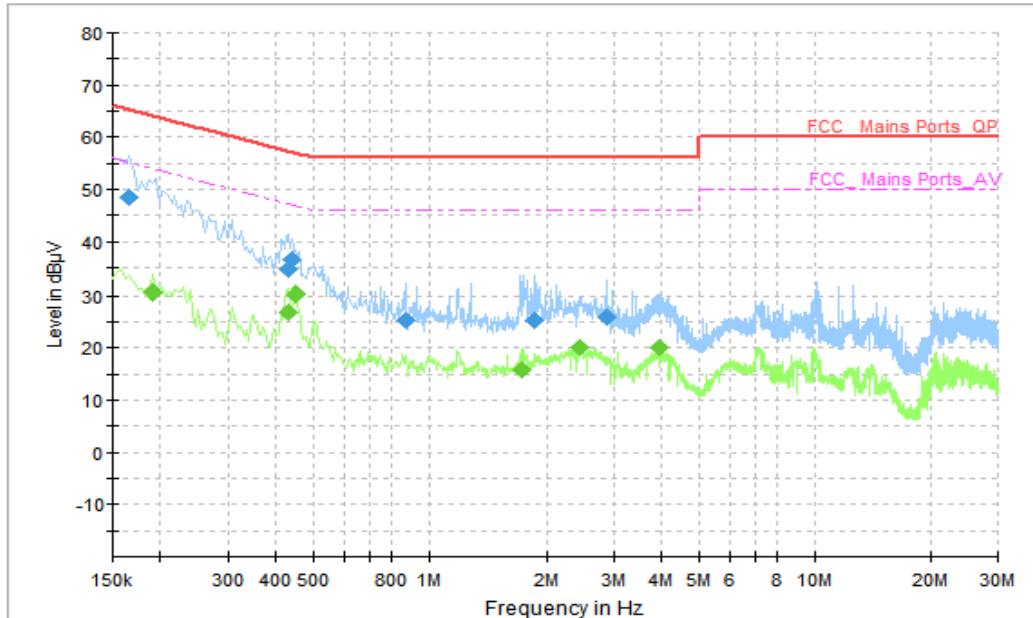


Figure A.2.5. Conducted Emission(Data Transfer)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.166000	48.44	65.16	16.71	N	10	38.44
0.430000	34.67	57.25	22.58	N	10	24.67
0.438000	36.46	57.10	20.64	N	10	26.46
0.870000	25.34	56.00	30.66	N	10	15.34
1.870000	25.21	56.00	30.79	N	10	15.21
2.866000	25.86	56.00	30.14	L1	10	15.86

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.190000	30.33	54.04	23.70	N	10	20.33
0.430000	26.90	47.25	20.35	N	10	16.9
0.450000	30.12	46.88	16.75	L1	10	20.12
1.718000	15.73	46.00	30.27	N	10	5.73
2.430000	20.15	46.00	25.85	N	10	10.15
3.942000	20.15	46.00	25.85	N	10	10.15



AC Input Port/ Voltage: 240V/60Hz

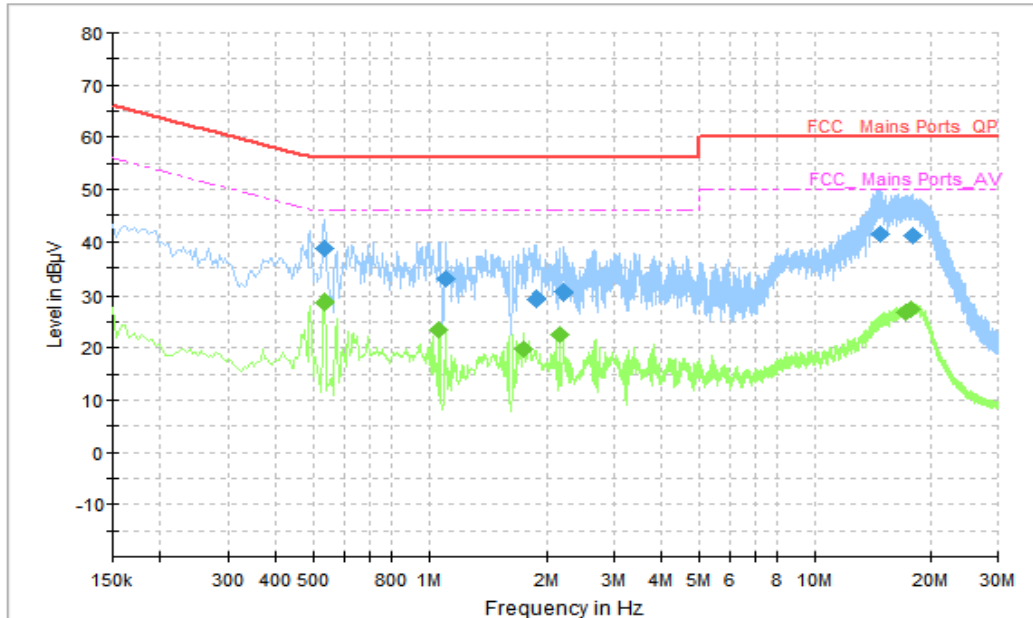


Figure A.2.6. Conducted Emission(Camera)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.534000	38.59	56.00	17.41	L1	10	28.59
1.106000	32.80	56.00	23.20	L1	10	22.8
1.882000	29.28	56.00	26.72	L1	10	19.28
2.214000	30.33	56.00	25.67	L1	10	20.33
14.890000	41.58	60.00	18.42	N	10	31.58
18.086000	41.19	60.00	18.81	N	10	31.19

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.534000	28.67	46.00	17.33	L1	10	18.67
1.062000	23.49	46.00	22.51	N	10	13.49
1.754000	19.64	46.00	26.36	N	10	9.64
2.166000	22.49	46.00	23.51	L1	10	12.49
17.186000	26.81	50.00	23.19	N	10	16.81
17.722000	27.54	50.00	22.46	N	10	17.54

AC Input Port/ Voltage: 240V/60Hz

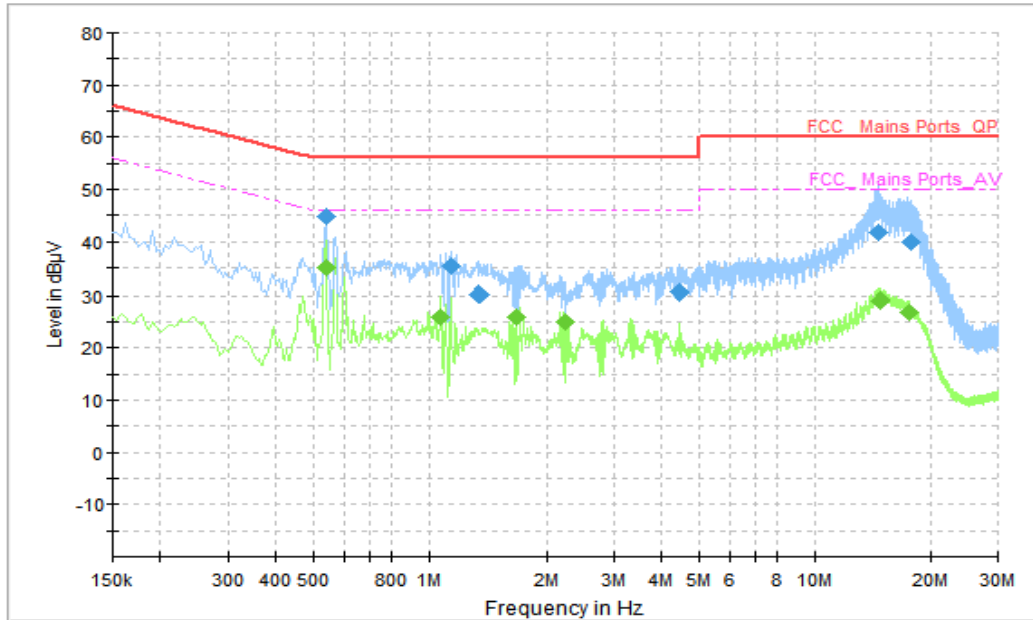


Figure A.2.7. Conducted Emission(Video Player)

Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.538000	44.87	56.00	11.13	L1	10	34.87
1.142000	35.38	56.00	20.62	N	10	25.38
1.338000	30.18	56.00	25.82	L1	10	20.18
4.450000	30.31	56.00	25.69	L1	10	20.31
14.638000	41.91	60.00	18.09	L1	10	31.91
17.794000	39.81	60.00	20.19	L1	10	29.81

Final\_Result\_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.538000	35.20	46.00	10.80	N	10	25.20
1.074000	25.90	46.00	20.10	N	10	15.9
1.674000	25.72	46.00	20.28	N	10	15.72
2.246000	25.00	46.00	21.00	N	10	15.00
14.770000	28.94	50.00	21.06	N	10	18.94
17.686000	26.81	50.00	23.19	N	10	16.81

AC Input Port/ Voltage:240 V/60Hz

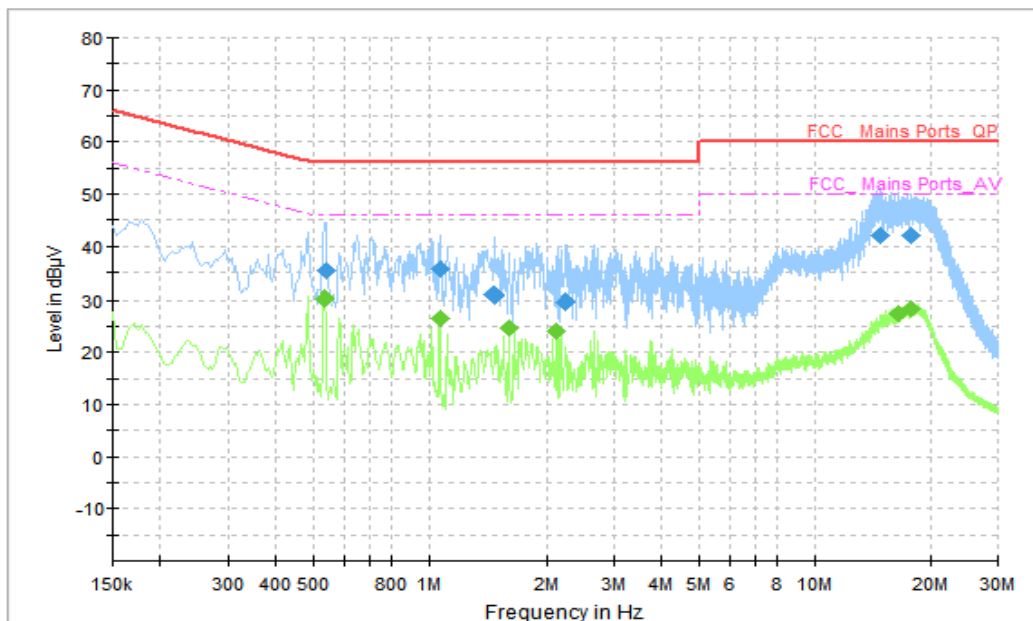


Figure A.2.8. Conducted Emission(FM receiver)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.538000	35.32	56.00	20.68	L1	10	25.32
1.070000	35.52	56.00	20.48	L1	10	25.52
1.470000	30.83	56.00	25.17	N	10	20.83
2.246000	29.52	56.00	26.48	L1	10	19.52
14.802000	42.06	60.00	17.94	N	10	32.06
17.782000	42.16	60.00	17.84	N	10	32.16

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.534000	30.14	46.00	15.86	L1	10	20.14
1.066000	26.34	46.00	19.66	N	10	16.34
1.598000	24.69	46.00	21.31	L1	10	14.69
2.130000	23.95	46.00	22.05	N	10	13.95
16.542000	27.53	50.00	22.47	N	10	17.53
17.778000	28.37	50.00	21.63	N	10	18.37

AC Input Port/ Voltage: 240V/60Hz

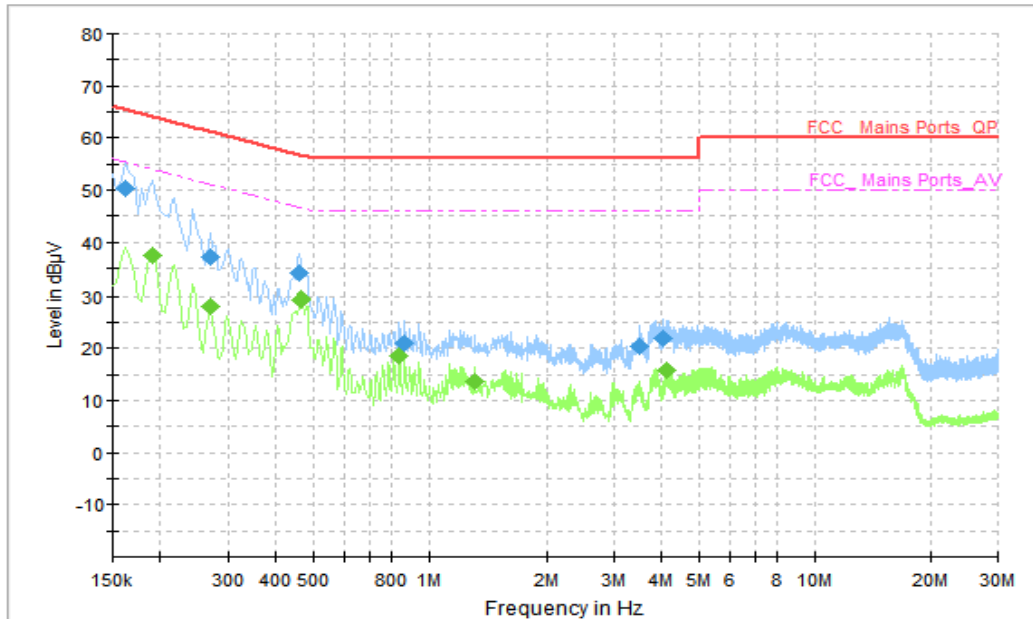


Figure A.2.9. Conducted Emission(Data Transfer)

Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.162000	50.30	65.36	15.06	N	10	40.30
0.270000	37.26	61.12	23.86	N	10	27.26
0.458000	34.04	56.73	22.69	N	10	24.04
0.862000	20.96	56.00	35.04	L1	10	10.96
3.494000	20.42	56.00	35.58	L1	10	10.42
4.034000	21.81	56.00	34.19	N	10	11.81

Final\_Result\_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.190000	37.61	54.04	16.43	N	10	27.61
0.270000	27.97	51.12	23.15	L1	10	17.97
0.466000	29.18	46.59	17.41	N	10	19.18
0.838000	18.60	46.00	27.40	L1	10	8.60
1.314000	13.61	46.00	32.39	N	10	3.61
4.130000	15.80	46.00	30.20	L1	10	5.80

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