



# TEST REPORT

## No.I21N04075-EMC

for

**HMD Global Oy**

**Smart Phone**

**Model Name: TA-1471**

With

**Hardware Version: V01**

**Software Version: 00WW\_0\_031**

**FCC ID: 2AJOTTA-1471**

**Issued Date: 2022-03-21**

**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>
I21N04075-EMC	Rev.0	1st edition	2022-03-21

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	Smart Phone
Model Name	TA-1471
Applicant's name	HMD Global Oy
Manufacturer's Name	HMD Global Oy

### 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: 2022-02-14

Testing End Date: 2022-03-20

### 1.6. Signature

Liang Yong  
(Prepared this test report)

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(Reviewed this test report)

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(Approved this test report)



## **2. CLIENT INFORMATION**

### **2.1. Applicant Information**

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### **2.2. Manufacturer Information**

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### **3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT**

#### **(AE)**

#### **3.1. About EUT**

Description	Smart Phone
Model Name	TA-1471
FCC ID	2AJOTTA-1471
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**

<b>EUT ID*</b>	<b>SN or IMEI</b>	<b>HW Version</b>	<b>SW Version</b>	<b>Receive Date</b>
UT05aa	353906800005689	V01	00WW_0_031	2022-02-14

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

#### **3.3. Internal Identification of AE**

<b>AE ID*</b>	<b>Description</b>
AE1	Battery
AE2	Charger
AE3	USB Cable
AE4	Headset

##### AE1

Model	GH5781
Manufacturer	Shenzhen Aerospace Electronic Co.,Ltd
Capacity	12400 mAh
Nominal Voltage	3.8 V

##### AE2-1

Model	A806A-050100U-EU1
Manufacturer	Dongguan Aohai Technology Co., Ltd

##### AE2-2

Model	A806A-050100U-UK1
Manufacturer	Dongguan Aohai Technology Co., Ltd

##### AE2-3

Model	A18A-050100U-US2
Manufacturer	Dongguan Aohai Technology Co., Ltd

##### AE2-4

Model	A103A-050100U-AU2
Manufacturer	Dongguan Aohai Technology Co., Ltd

##### AE2-5

Model	AD-005E
Manufacturer	Shenzhen Baijunda Electronic Co.,Ltd



AE2-6

Model AD-005X  
Manufacturer Shenzhen Bajunda Electronic Co.,Ltd

AE2-7

Model TN-050100B5  
Manufacturer Shenzhen Tinno Mobile Technology Corp

AE2-8

Model TN-050100E5  
Manufacturer Shenzhen Tinno Mobile Technology Corp

AE3-1

Model MO34B1000100  
Manufacturer FKY-QY Electronic Technology Co. Ltd

AE4-1

Model JWEP1199-M01H  
Manufacturer JUWEI ELECTRONICS CO.,LTD

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

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

AE: ancillary equipment

AE2: The circuit boards of model A806A-050100U-EU1 (AE2-1),A806A-050100U-UK1(AE2-2), A18A-050100U-US2(AE2-3)and A103A-050100U-AU2 (AE2-4) are the same.

The circuit boards of model AD-005E (AE2-5)and AD-005X (AE2-6) are the same.

The circuit boards of model TN-050100B5 (AE2-7)and TN-050100E5 (AE2-8) are the same.

**3.4. EUT Set-ups**

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT+AE1+AE2-1+AE3-1+AE4-1	
Set.2	EUT+AE1+AE2-5+AE3-1+AE4-1	
Set.3	EUT+AE1+AE2-8+AE3-1+AE4-1	
Set.4	EUT+AE1+AE3-1+AE4-1+PC	



### **3.5. General Description**

The Equipment Under Test (EUT) is a model of Smart Phone.

It supports GSM 850/900/1800/1900MHz, WCDMA Bands 1/2/4/5/8/, LTE Bands 1/2/3/4/5/7/8/12/13/17/28/66.

It has MP3, Camera, USB memory, Bluetooth, Wi-Fi, FM Receiver 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.





## **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/IC rules	Section in this report	Verdict
1	Radiated Emission	15.109(a)/ Section 6.2	A.1	P
2	Conducted Emission	15.107(a)/ Section 6.1	A.2	P

### 6.3. Statement

#### 6.3.1 Statements of conformity

This report takes measured values as criterion of test conclusion. The test conclusion meets the limit requirements.

## 7. MEASUREMENT UNCERTAINTY

Test item	Frequency ranges	Measurement uncertainty
Radiated Emission	30MHz-1GHz	4.86dB(k=2)
	1GHz-18GHz	4.82dB(k=2)
Conducted Emission	150kHz-30MHz	2.62dB(k=2)

## 8. MEASURING APPARATUS UTILIZED

No.	Name	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1.	Test Receiver	ESR7	101676	R&S	2022.11.24	1 year
2.	Test Receiver	ESCI	100702	R&S	2023.01.12	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2023.01.12	1 year
4.	BiLog Antenna	3142E	0224831	ETS-Lindgren	2024.05.27	3 years
5.	Horn Antenna	3117	00066577	ETS-Lindgren	2022.04.02	3 years
6.	LISN	ENV216	102067	R&S	2022.07.15	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	2022.07.15	1 year

## 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:**

**FM receiver:** The EUT is connected to a charger for charging and open FM function. 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.

**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.

**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, LTE Band 13, LTE Band 17.

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

case emissions are reported.

All equipment is placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions.

**A.1.3 Measurement Limit**

Limit from Part 15.109(a)

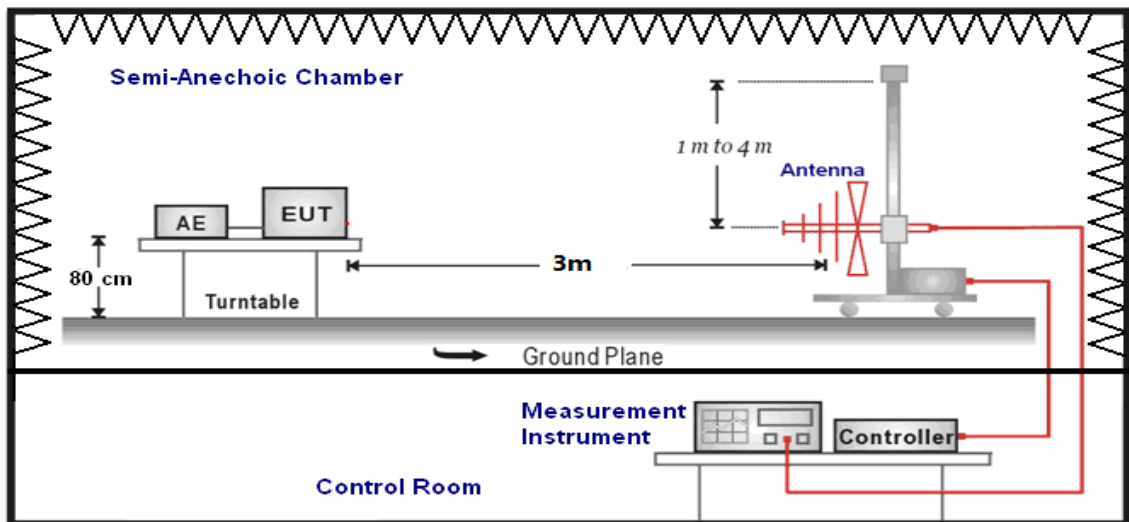
Frequency range (MHz)	Field strength limit ( $\mu\text{V/m}$ )		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

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

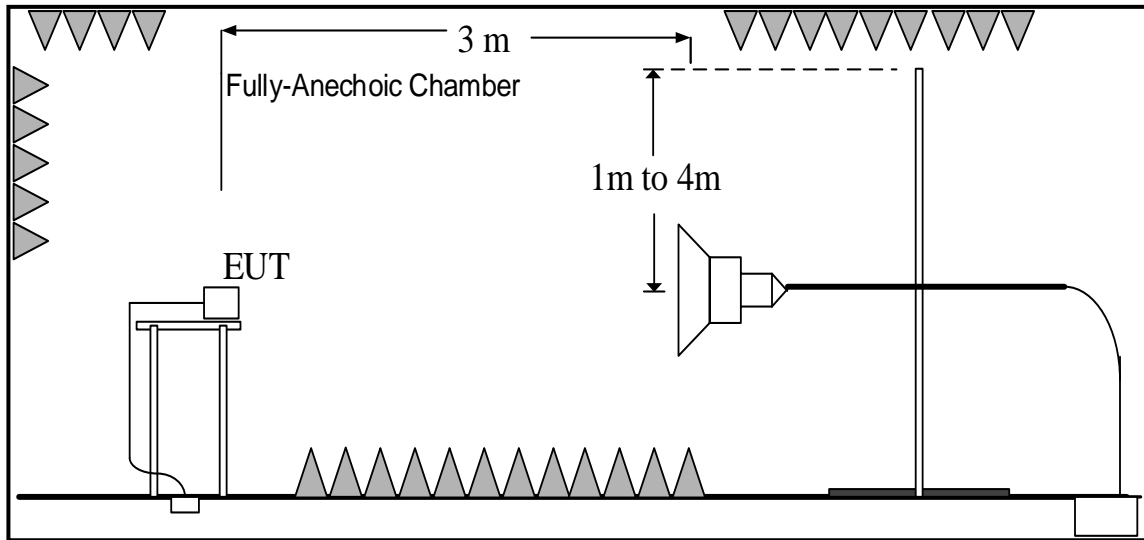
**A.1.4 Test Condition**

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

**A.1.5 Test set-up:  
30MHz-1GHz**



**1GHz-18GHz**



**A.1.6 Measurement Results**

A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss". It includes the antenna factor of receive antenna and the path loss.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{Rpl} = P_{\text{Mea}} + G_A + G_{PL}$$

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
		UT05aa/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
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.2.	P

## Video Player

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Figure A.1.3.	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
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.4.	P

## FM receiver

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/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
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.6.	P

## Camera

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/Set.2	
30-88	40.00	See Figure A.1.7.	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
			UT05aa/Set.2	
1000 to 18000	54.00	74.00	See Figure A.1.8.	P



## Camera

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/Set.3	
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
			UT05aa/Set.3	
1000 to 18000	54.00	74.00	See Figure A.1.10.	P

## GSM receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Figure A.1.11.	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
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.12.	P

## WCDMA receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/Set.1	
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
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.14.	P

## LTE receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Figure A.1.15.	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
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.16.	P

## LTE receiver Band 12

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/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
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.18.	P

## LTE receiver Band 13

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Figure A.1.19.	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
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.20.	P

## LTE receiver Band 17

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/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
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.22.	P

## GSM receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/Set.2	
30-88	40.00	See Figure A.1.23.	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
			UT05aa/Set.2	
1000 to 18000	54.00	74.00	See Figure A.1.24.	P

## GSM receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/Set.3	
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
			UT05aa/Set.3	
1000 to 18000	54.00	74.00	See Figure A.1.26.	P

## Data Transfer: PC TO EUT

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/Set.4	
30-88	40.00	See Figure A.1.27.	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
			UT05aa/Set.4	
1000 to 18000	54.00	74.00	See Figure A.1.28.	P

## Data Transfer: EUT TO PC

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/Set.4	
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
			UT05aa/Set.4	
1000 to 18000	54.00	74.00	See Figure A.1.30.	P

## Data Transfer: PC TO TF Card

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/Set.4	
30-88	40.00	See Figure A.1.31.	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
			UT05aa/Set.4	
1000 to 18000	54.00	74.00	See Figure A.1.32.	P



Data Transfer: TF Card TO PC

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT05aa/Set.4	
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
			UT05aa/Set.4	
1000 to 18000	54.00	74.00	See Figure A.1.34.	P

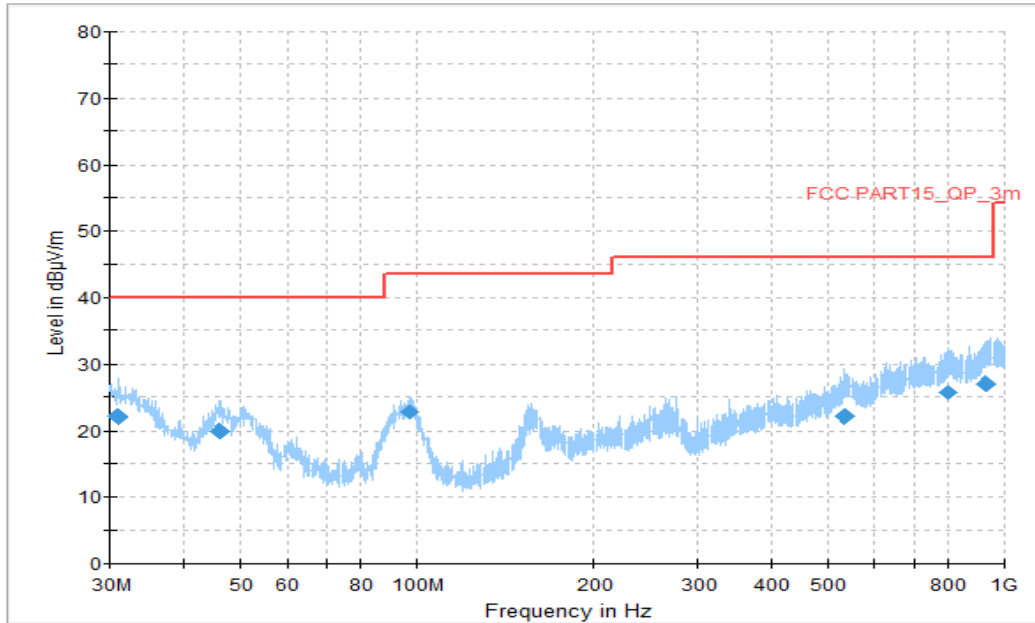


Figure A.1.1. Radiated Emission (Camera, 30MHz to 1GHz)

**Final\_Results**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.916111	22.20	40.00	17.80	V	-13	35.20
46.112778	19.80	40.00	20.20	V	-21	40.8
96.930000	22.89	43.52	20.63	V	-20	42.89
532.082778	22.21	46.02	23.81	H	-5	27.21
803.143889	25.74	46.02	20.28	H	-1	26.74
928.758889	27.10	46.02	18.92	V	1	26.10

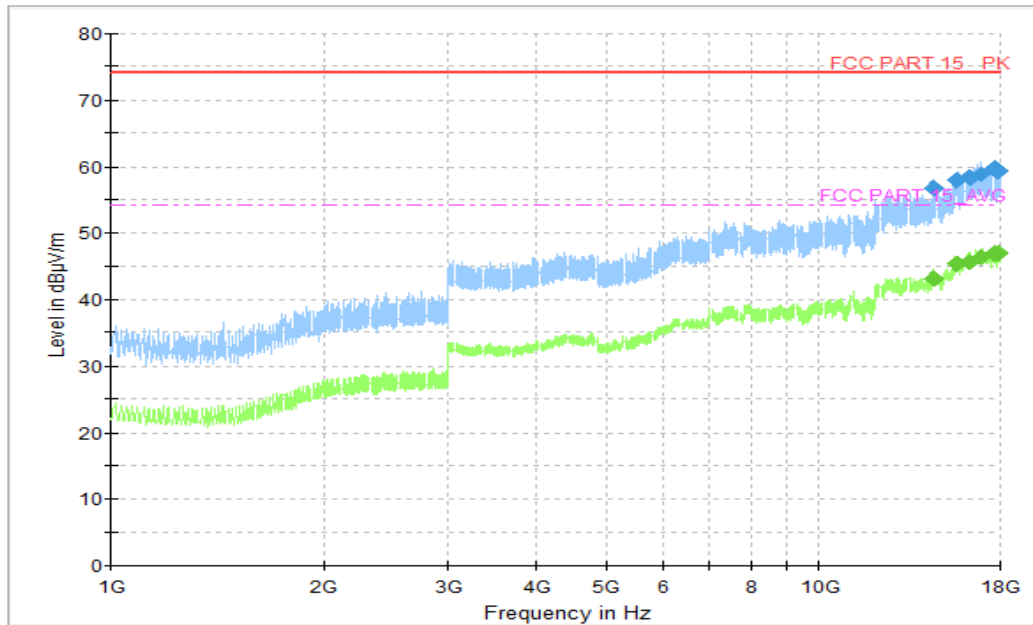


Figure A.1.2. Radiated Emission (Camera, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
14558.500000	56.69	74.00	17.31	H	18	38.69
15627.750000	57.97	74.00	16.03	V	20	37.97
16273.250000	58.32	74.00	15.68	V	21	37.32
16922.250000	58.77	74.00	15.23	H	22	36.77
17697.500000	59.65	74.00	14.35	V	23	36.65
17885.500000	59.22	74.00	14.78	V	24	35.22

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
14558.500000	43.24	54.00	10.76	H	18	25.24
15627.750000	45.40	54.00	8.60	V	20	25.4
16273.250000	45.68	54.00	8.32	V	21	24.68
16922.250000	46.31	54.00	7.69	H	22	24.31
17697.500000	46.96	54.00	7.04	V	23	23.96
17885.500000	46.96	54.00	7.04	V	24	22.96

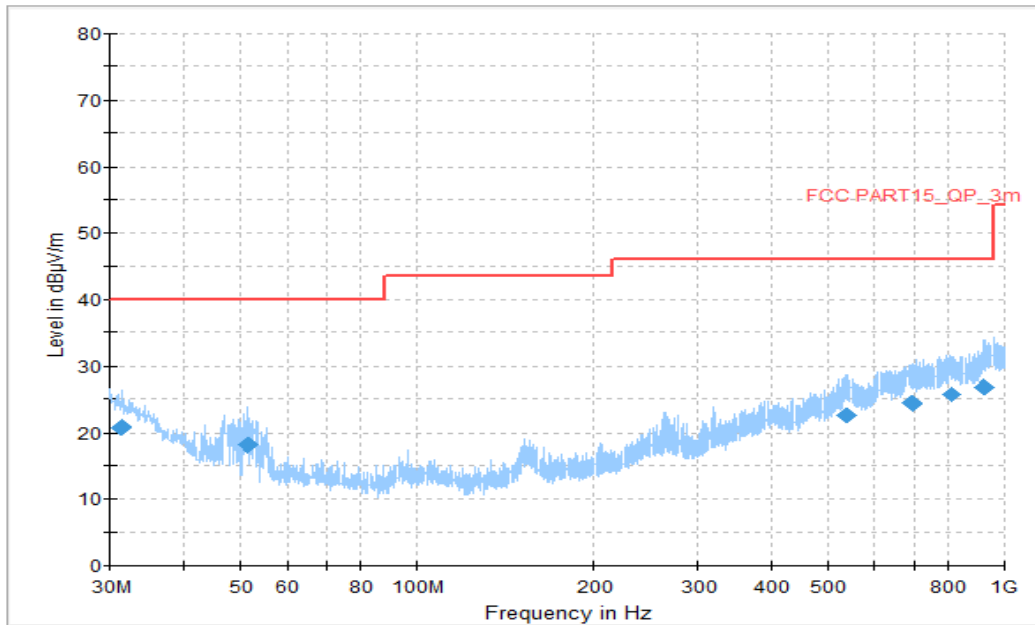


Figure A.1.3. Radiated Emission (Video Player, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
31.455000	20.77	40.00	19.23	H	-13	33.77
51.393889	18.09	40.00	21.91	V	-22	40.09
538.280000	22.51	46.02	23.51	H	-4	26.51
696.282222	24.36	46.02	21.66	V	-2	26.36
816.023333	25.77	46.02	20.25	V	-1	26.77
922.076667	26.91	46.02	19.12	H	0	26.91



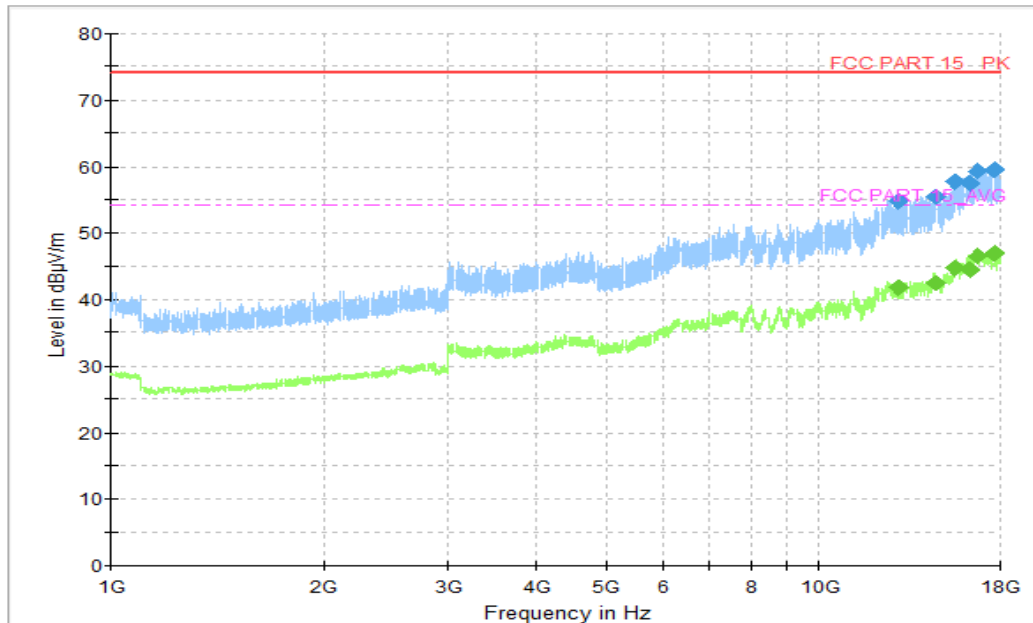


Figure A.1.4. Radiated Emission (Video Player, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12922.250000	54.85	74.00	19.15	V	17	37.85
14588.000000	55.50	74.00	18.51	V	18	37.5
15562.000000	57.63	74.00	16.37	H	19	38.63
16303.250000	57.42	74.00	16.58	V	21	36.42
16713.000000	59.21	74.00	14.79	V	21	38.21
17695.000000	59.49	74.00	14.51	V	23	36.49

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12922.250000	41.88	54.00	12.12	V	17	24.88
14588.000000	42.43	54.00	11.57	V	18	24.43
15562.000000	44.78	54.00	9.22	H	19	25.78
16303.250000	44.58	54.00	9.42	V	21	23.58
16713.000000	46.37	54.00	7.63	V	21	25.37
17695.000000	46.84	54.00	7.16	V	23	23.84

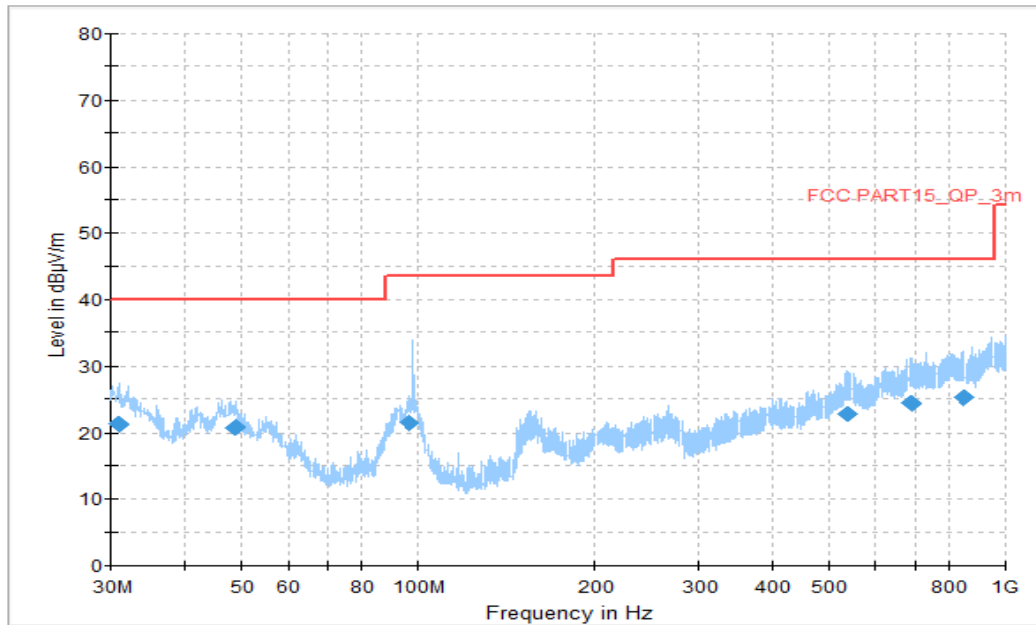


Figure A.1.5. Radiated Emission (FM receiver, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.862222	21.14	40.00	18.86	H	-13	34.14
48.861111	20.76	40.00	19.24	V	-22	42.76
96.283333	21.35	43.52	22.17	V	-20	41.35
536.717222	22.70	46.02	23.32	V	-4	26.70
689.061111	24.41	46.02	21.61	V	-2	26.41
851.697778	25.19	46.02	20.83	H	-1	26.19

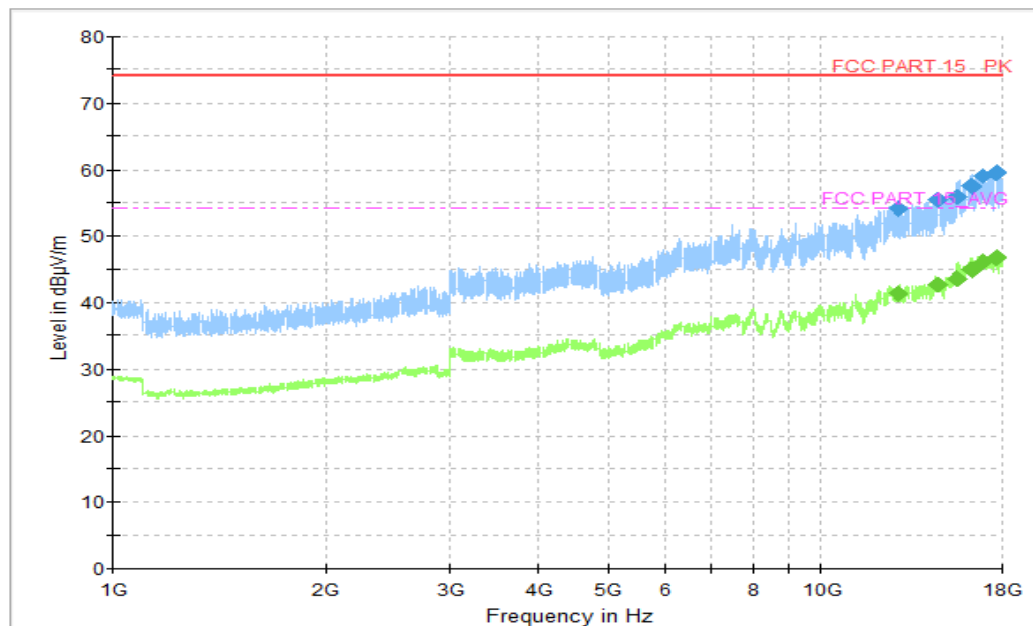


Figure A.1.6. Radiated Emission (FM receiver, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12868.250000	54.16	74.00	19.84	V	17	37.16
14587.250000	55.44	74.00	18.56	H	18	37.44
15510.250000	55.78	74.00	18.22	H	19	36.78
16292.500000	57.48	74.00	16.52	V	21	36.48
16963.500000	58.99	74.00	15.01	V	23	35.99
17710.500000	59.41	74.00	14.59	H	23	36.41

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12868.250000	41.36	54.00	12.64	V	17	24.36
14587.250000	42.63	54.00	11.37	H	18	24.63
15510.250000	43.54	54.00	10.47	H	19	24.54
16292.500000	44.93	54.00	9.07	V	21	23.93
16963.500000	46.14	54.00	7.86	V	23	23.14
17710.500000	46.70	54.00	7.30	H	23	23.70

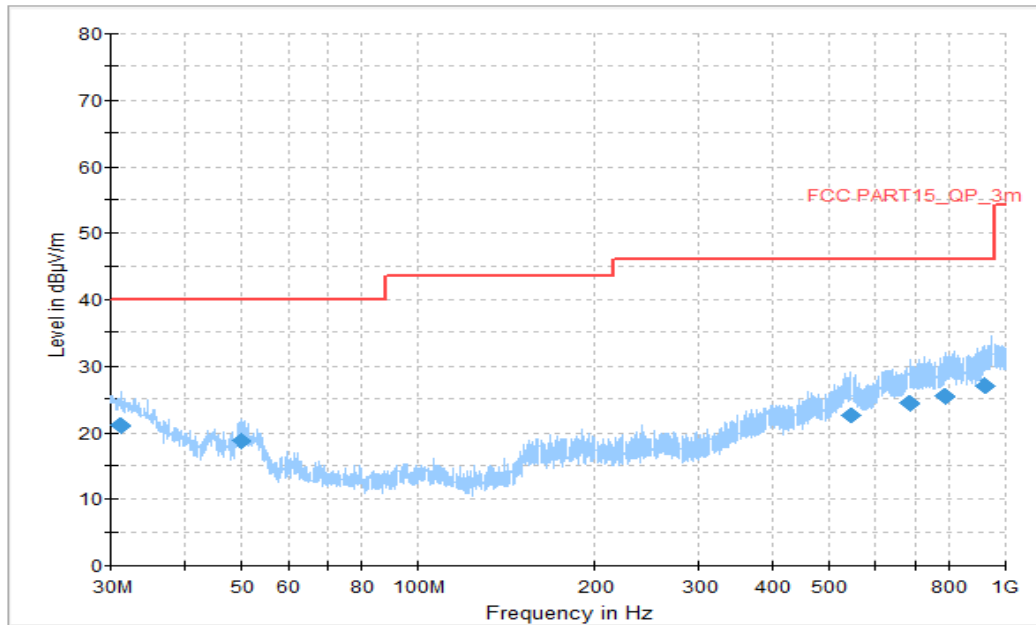


Figure A.1.7. Radiated Emission (Camera, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
31.185556	20.94	40.00	19.06	H	-13	33.94
49.992778	18.86	40.00	21.14	V	-22	40.86
543.938333	22.48	46.02	23.54	V	-4	26.48
685.881667	24.34	46.02	21.68	V	-2	26.34
791.881111	25.38	46.02	20.64	V	-1	26.38
923.639444	27.09	46.02	18.93	H	1	26.09

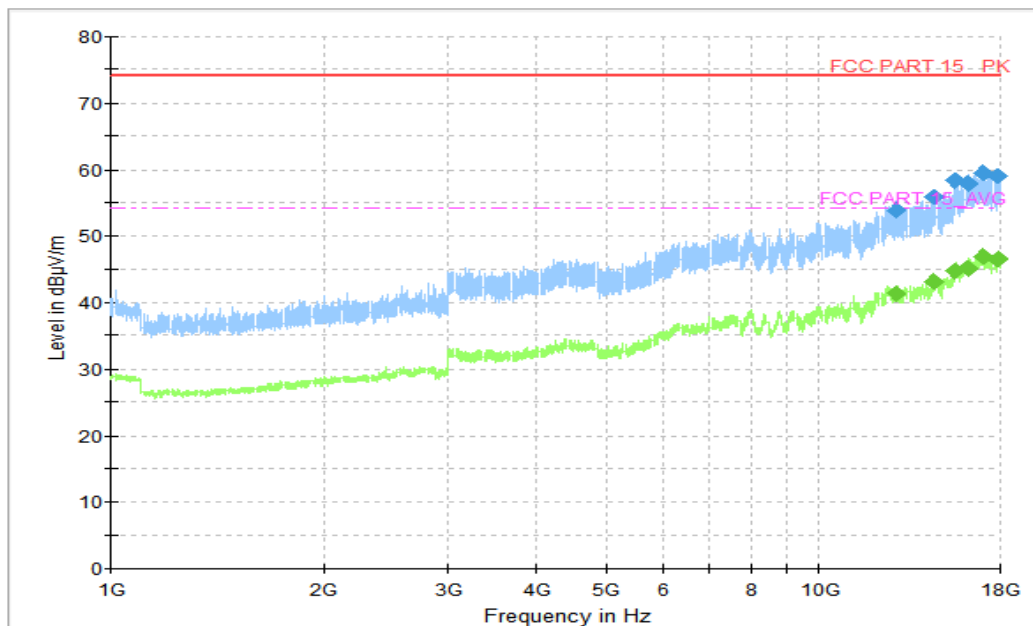


Figure A.1.8. Radiated Emission (Camera, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12887.750000	53.88	74.00	20.12	V	17	36.88
14557.500000	55.90	74.00	18.10	V	18	37.9
15559.000000	58.34	74.00	15.66	V	19	39.34
16260.000000	57.94	74.00	16.06	H	21	36.94
16990.250000	59.39	74.00	14.61	V	23	36.39
17878.000000	59.08	74.00	14.92	V	24	35.08

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12887.750000	41.40	54.00	12.60	V	17	24.40
14557.500000	43.08	54.00	10.92	V	18	25.08
15559.000000	44.77	54.00	9.23	V	19	25.77
16260.000000	45.25	54.00	8.75	H	21	24.25
16990.250000	46.94	54.00	7.06	V	23	23.94
17878.000000	46.49	54.00	7.51	V	24	22.49

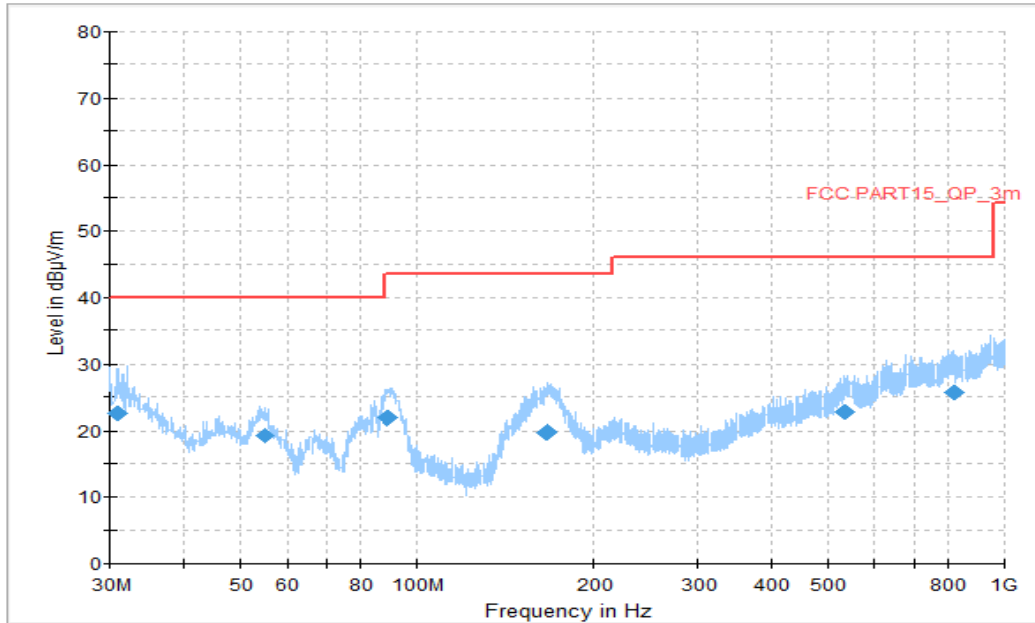


Figure A.1.9. Radiated Emission (Camera, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.808333	22.60	40.00	17.40	V	-13	35.60
54.950556	19.22	40.00	20.78	V	-22	41.22
89.062222	21.79	43.52	21.73	V	-22	43.79
166.662222	19.70	43.52	23.82	V	-18	37.70
534.615556	22.71	46.02	23.31	V	-4	26.71
819.472222	25.76	46.02	20.26	H	-1	26.76

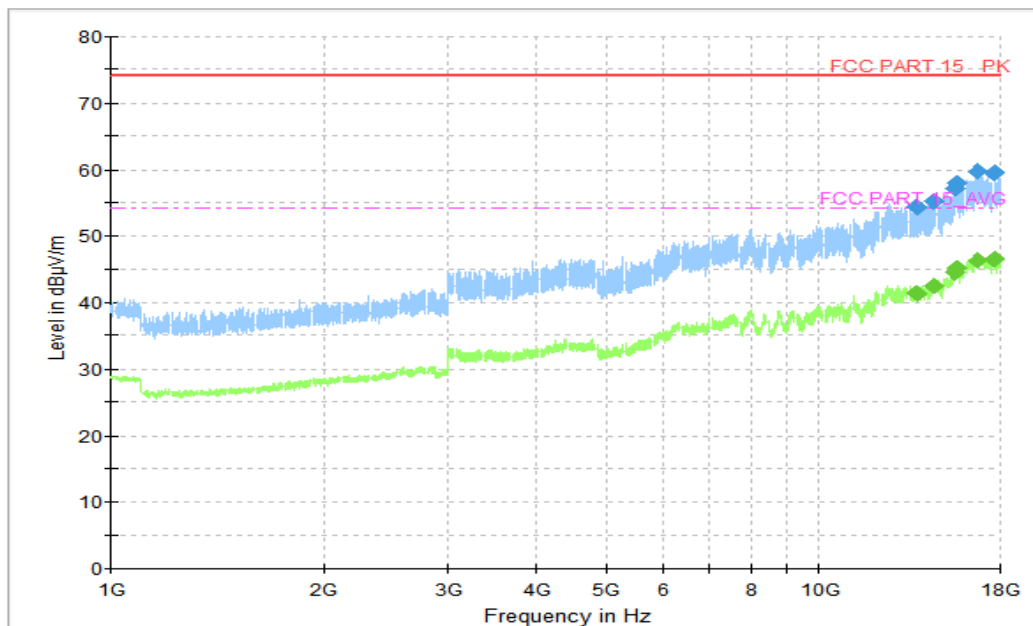


Figure A.1.10. Radiated Emission (Camera, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13760.750000	54.32	74.00	19.68	V	17	37.32
14545.000000	55.28	74.00	18.72	H	18	37.28
15561.250000	57.21	74.00	16.79	H	19	38.21
15611.500000	57.82	74.00	16.18	H	20	37.82
16679.250000	59.69	74.00	14.31	V	22	37.69
17715.750000	59.40	74.00	14.60	V	23	36.40

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13760.750000	41.27	54.00	12.73	V	17	24.27
14545.000000	42.54	54.00	11.46	H	18	24.54
15561.250000	44.58	54.00	9.42	H	19	25.58
15611.500000	45.16	54.00	8.84	H	20	25.16
16679.250000	46.36	54.00	7.64	V	22	24.36
17715.750000	46.41	54.00	7.59	V	23	23.41

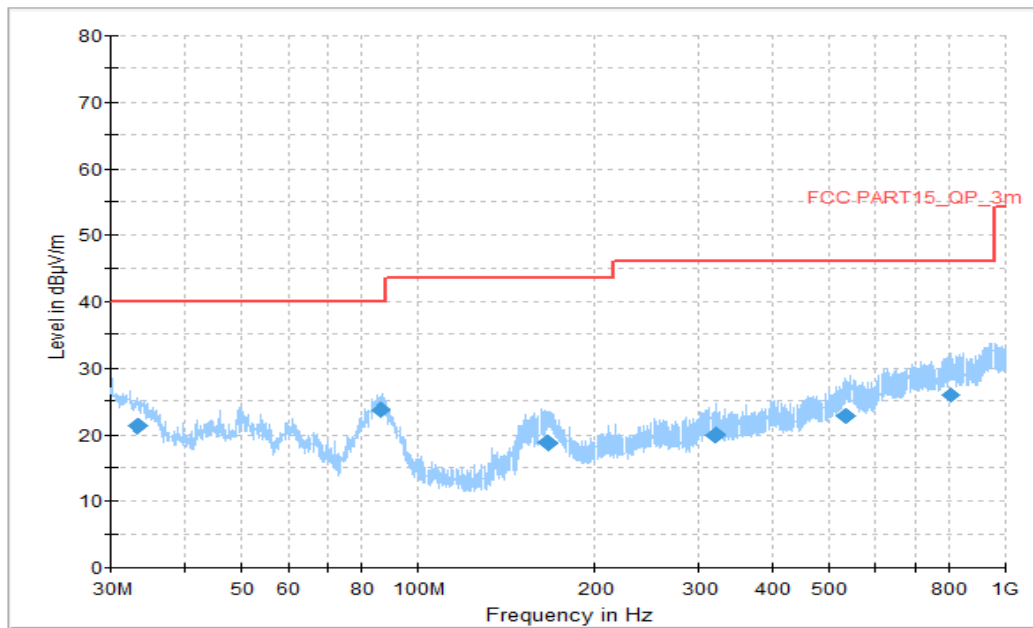


Figure A.1.11. Radiated Emission (GSM receiver 850MHz, 30MHz to 1GHz)

**Final\_Results**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
33.341111	21.31	40.00	18.69	V	-15	36.31
86.260000	23.62	40.00	16.38	V	-22	45.62
166.338889	18.79	43.52	24.73	V	-18	36.79
320.299444	19.82	46.02	26.20	H	-13	32.82
535.208333	22.82	46.02	23.20	V	-4	26.82
809.772222	25.98	46.02	20.04	V	-1	26.98



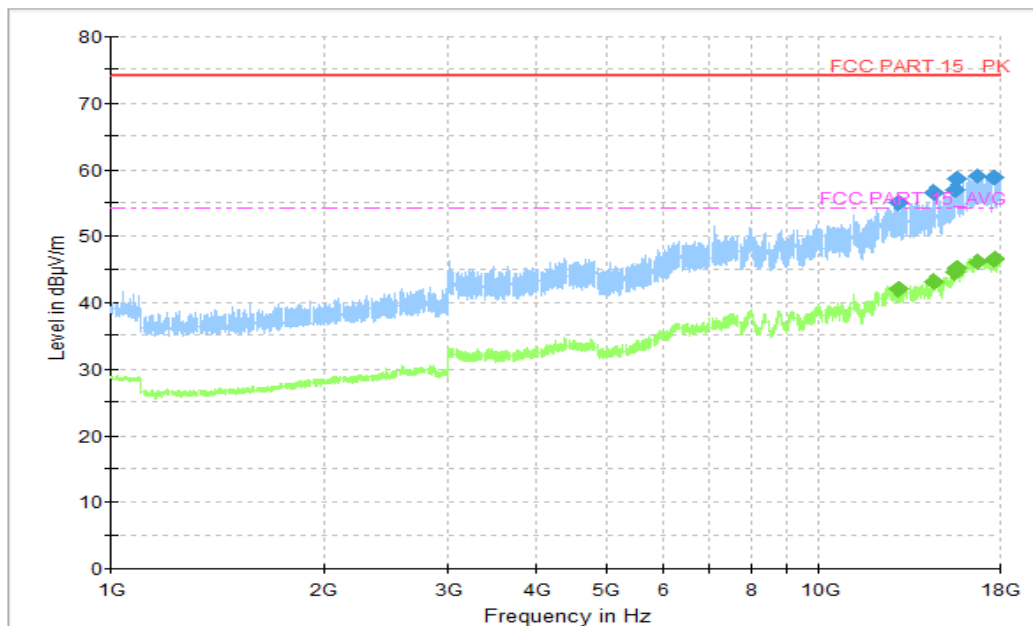


Figure A.1.12. Radiated Emission (GSM receiver 850MHz, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12904.000000	55.01	74.00	18.99	V	17	38.01
14557.750000	56.47	74.00	17.53	V	18	38.47
15574.750000	56.94	74.00	17.06	V	20	36.94
15595.750000	58.45	74.00	15.55	H	20	38.45
16692.500000	58.98	74.00	15.02	V	21	37.98
17689.750000	58.85	74.00	15.15	H	23	35.85

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12904.000000	41.92	54.00	12.08	V	17	24.92
14557.750000	43.09	54.00	10.91	V	18	25.09
15574.750000	44.49	54.00	9.51	V	20	24.49
15595.750000	45.17	54.00	8.83	H	20	25.17
16692.500000	46.03	54.00	7.97	V	21	25.03
17689.750000	46.50	54.00	7.50	H	23	23.50

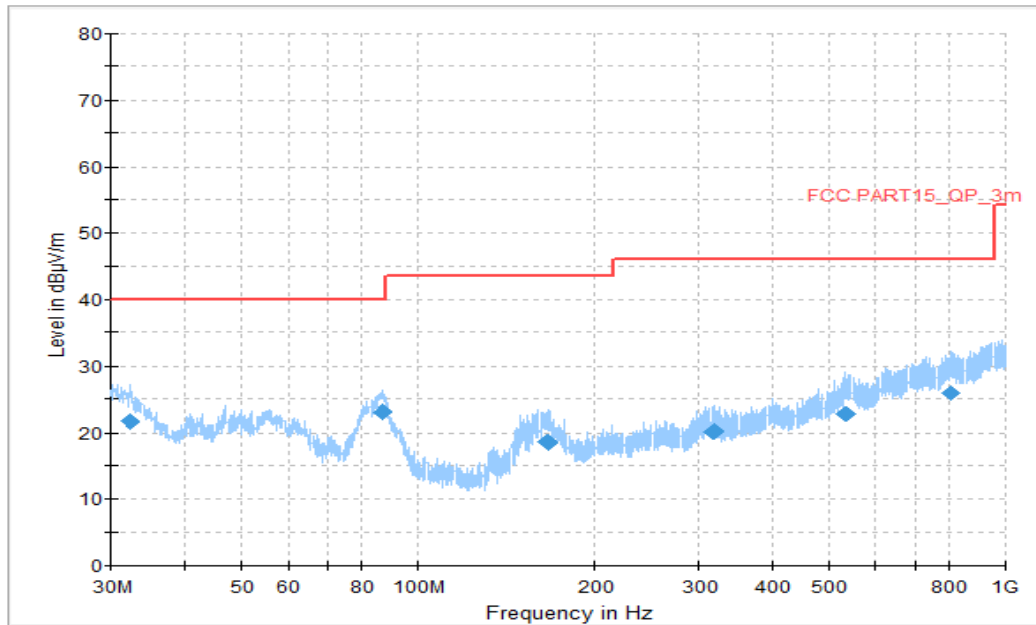


Figure A.1.13. Radiated Emission (WCDMA receiver Band 5, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
32.371111	21.61	40.00	18.39	V	-14	35.61
86.745000	23.04	40.00	16.96	V	-22	45.04
166.392778	18.63	43.52	24.89	V	-18	36.63
318.197778	20.20	46.02	25.82	H	-13	33.20
534.885000	22.75	46.02	23.27	H	-4	26.75
809.718333	25.97	46.02	20.05	V	-1	26.97

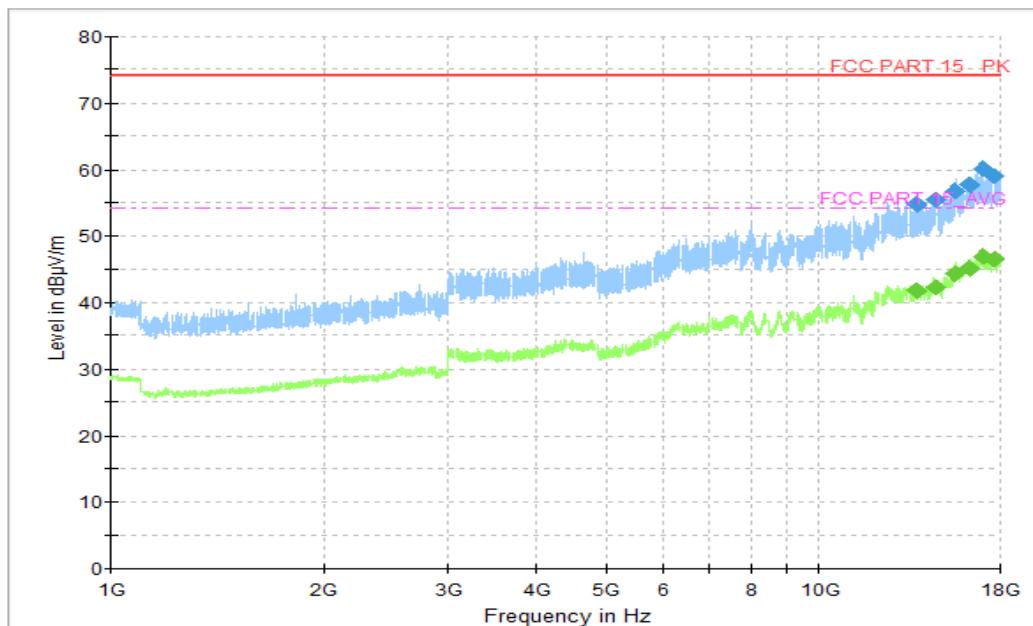


Figure A.1.14. Radiated Emission (WCDMA receiver Band 5, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13738.500000	54.79	74.00	19.21	V	17	37.79
14617.250000	55.32	74.00	18.68	V	18	37.32
15545.000000	56.73	74.00	17.27	H	19	37.73
16286.500000	57.75	74.00	16.25	H	21	36.75
17006.000000	60.15	74.00	13.85	H	23	37.15
17678.000000	59.07	74.00	14.93	V	23	36.07

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13738.500000	41.75	54.00	12.25	V	17	24.75
14617.250000	42.29	54.00	11.71	V	18	24.29
15545.000000	44.17	54.00	9.83	H	19	25.17
16286.500000	45.12	54.00	8.88	H	21	24.12
17006.000000	46.90	54.00	7.10	H	23	23.9
17678.000000	46.43	54.00	7.57	V	23	23.43

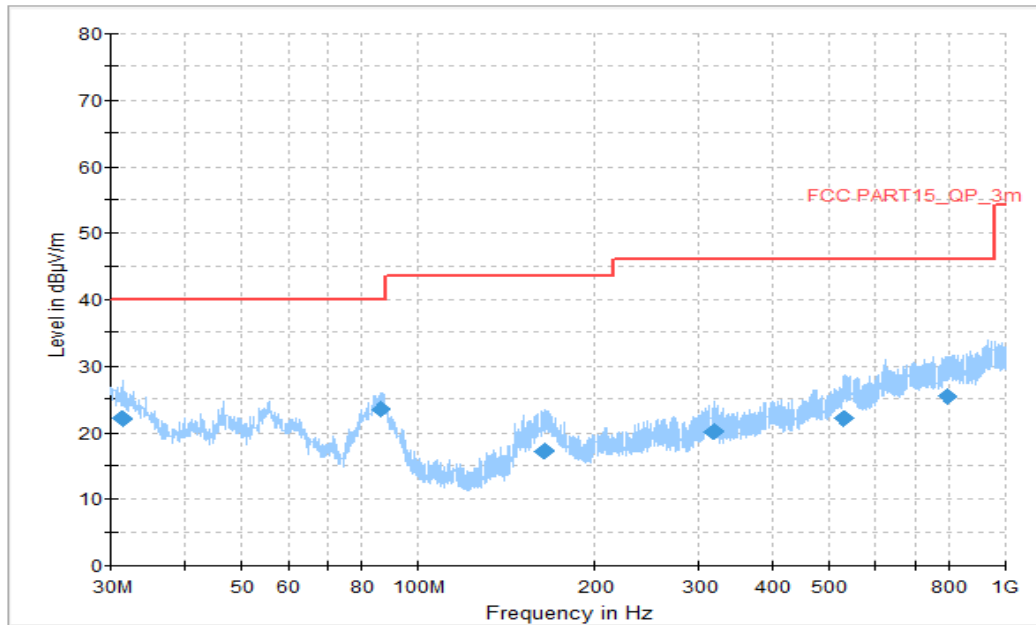


Figure A.1.15. Radiated Emission (LTE receiver Band 5, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
31.347222	22.18	40.00	17.82	V	-13	35.18
86.421667	23.45	40.00	16.55	V	-22	45.45
164.183333	17.23	43.52	26.29	V	-18	35.23
317.712778	20.10	46.02	25.92	H	-13	33.10
530.951111	22.09	46.02	23.93	V	-5	27.09
793.982778	25.53	46.02	20.49	V	-1	26.53

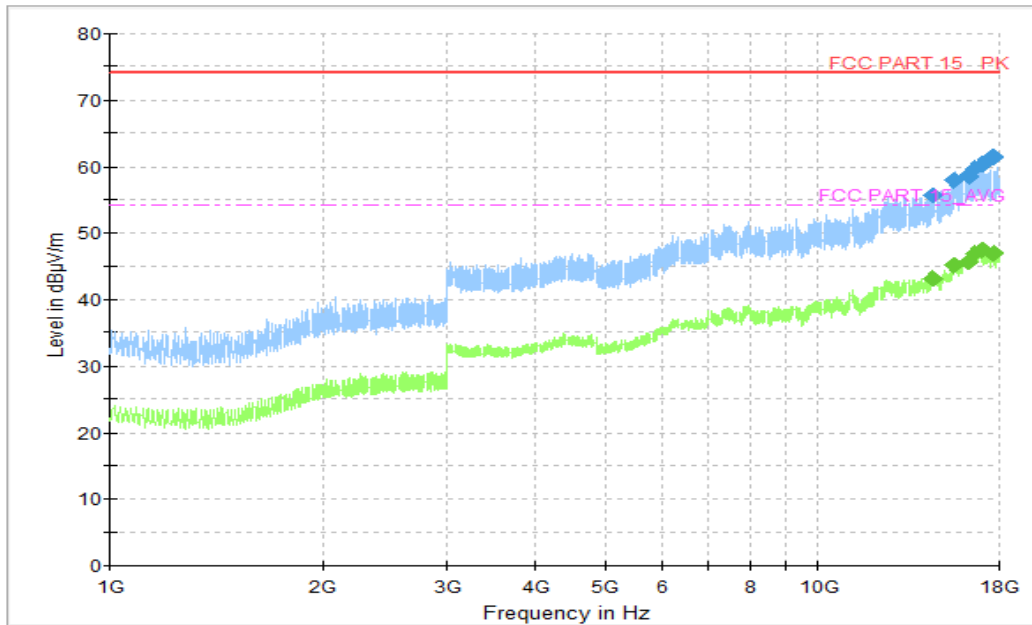


Figure A.1.16. Radiated Emission (LTE receiver Band 5, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
14562.000000	55.56	74.00	18.44	V	18	37.56
15585.500000	57.89	74.00	16.11	V	20	37.89
16272.750000	58.53	74.00	15.47	V	21	37.53
16664.250000	59.75	74.00	14.25	V	22	37.75
17016.250000	60.40	74.00	13.60	V	23	37.4
17699.250000	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)	P <sub>Mea</sub> (dBµV)
14562.000000	43.24	54.00	10.76	V	18	25.24
15585.500000	45.21	54.00	8.79	V	20	25.21
16272.750000	45.58	54.00	8.42	V	21	24.58
16664.250000	46.99	54.00	7.01	V	22	24.99
17016.250000	47.31	54.00	6.69	V	23	24.31
17699.250000	46.96	54.00	7.04	H	23	23.96

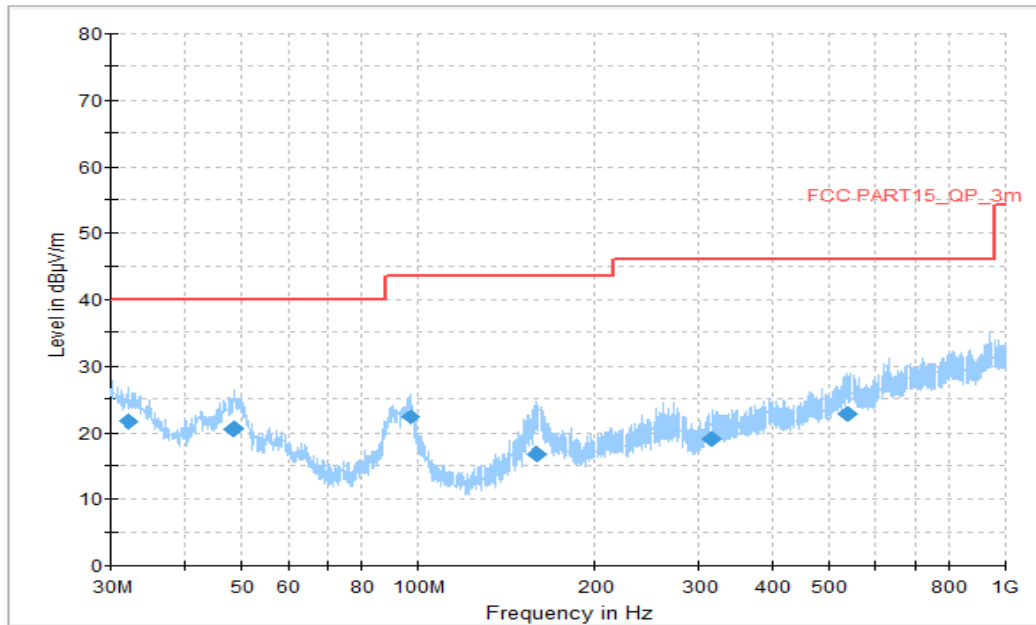


Figure A.1.17. Radiated Emission (LTE receiver Band 12, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
31.993889	21.70	40.00	18.30	V	-14	35.70
48.322222	20.46	40.00	19.54	V	-22	42.46
96.768333	22.41	43.52	21.11	V	-20	42.41
159.010000	16.70	43.52	26.82	V	-17	33.70
316.527222	18.89	46.02	27.13	H	-13	31.89
536.393889	22.72	46.02	23.30	H	-4	26.72

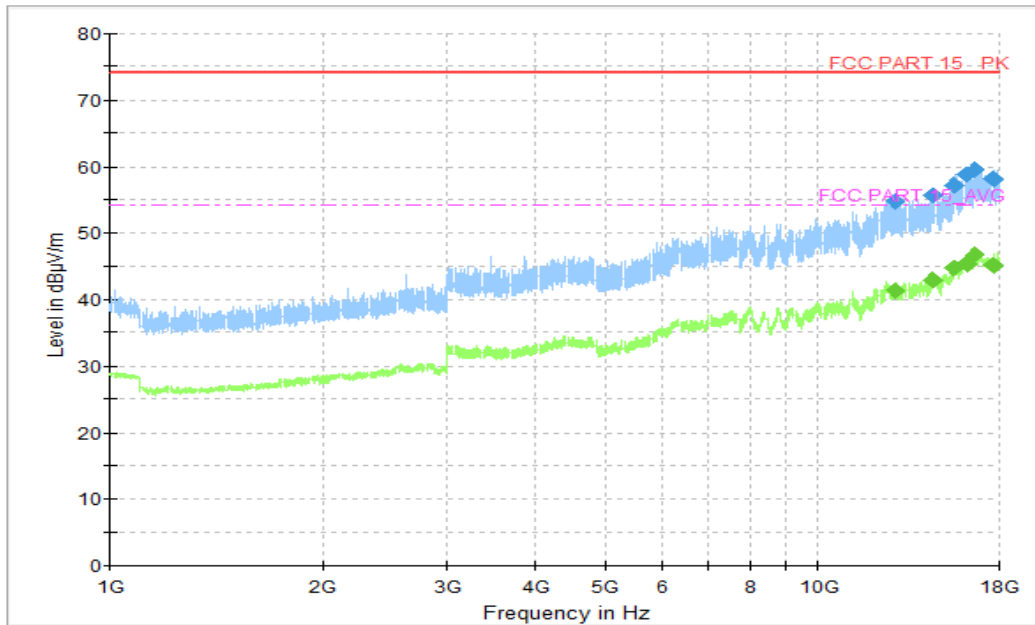


Figure A.1.18. Radiated Emission (LTE receiver Band 12, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12868.500000	54.81	74.00	19.19	H	17	37.81
14569.000000	55.74	74.00	18.26	H	18	37.74
15558.500000	57.12	74.00	16.88	V	19	38.12
16246.000000	58.83	74.00	15.17	H	21	37.83
16646.250000	59.39	74.00	14.61	H	22	37.39
17622.250000	58.09	74.00	15.91	V	22	36.09

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12868.500000	41.31	54.00	12.69	H	17	24.31
14569.000000	42.89	54.00	11.11	H	18	24.89
15558.500000	44.76	54.00	9.24	V	19	25.76
16246.000000	45.33	54.00	8.67	H	21	24.33
16646.250000	46.73	54.00	7.27	H	22	24.73
17622.250000	45.18	54.00	8.82	V	22	23.18

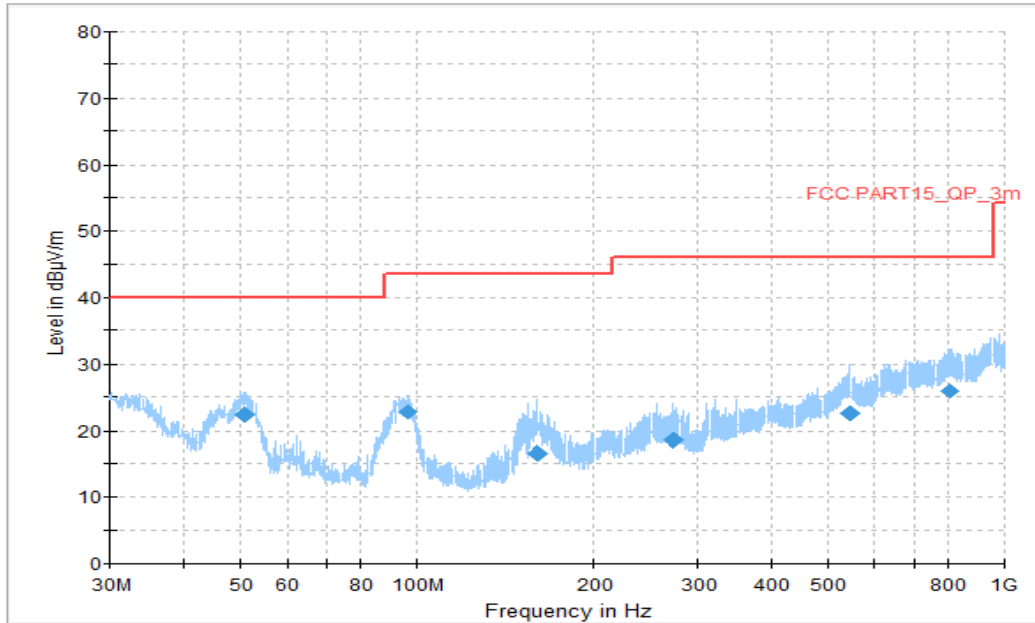


Figure A.1.19. Radiated Emission (LTE receiver Band 13, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
50.801111	22.32	40.00	17.68	V	-22	44.32
96.121667	22.85	43.52	20.67	V	-21	43.85
160.033889	16.43	43.52	27.09	V	-18	34.43
273.685556	18.63	46.02	27.39	H	-14	32.63
544.369444	22.50	46.02	23.52	V	-4	26.5
807.077778	26.02	46.02	20.00	H	-1	27.02



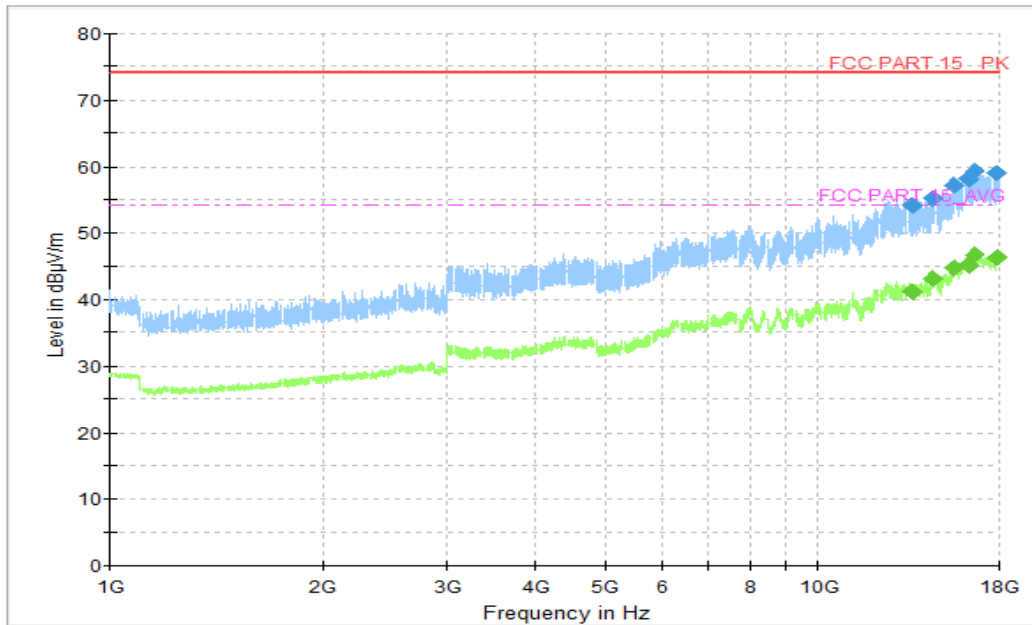


Figure A.1.20. Radiated Emission (LTE receiver Band 13, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13609.500000	54.11	74.00	19.89	H	17	37.11
14538.750000	55.30	74.00	18.70	H	18	37.3
15557.750000	57.10	74.00	16.90	V	19	38.10
16285.500000	58.04	74.00	15.96	H	21	37.04
16662.000000	59.28	74.00	14.72	V	22	37.28
17845.750000	58.89	74.00	15.11	H	23	35.89

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13609.500000	41.05	54.00	12.95	H	17	24.05
14538.750000	43.02	54.00	10.98	H	18	25.02
15557.750000	44.62	54.00	9.38	V	19	25.62
16285.500000	45.18	54.00	8.82	H	21	24.18
16662.000000	46.65	54.00	7.35	V	22	24.65
17845.750000	46.29	54.00	7.71	H	23	23.29

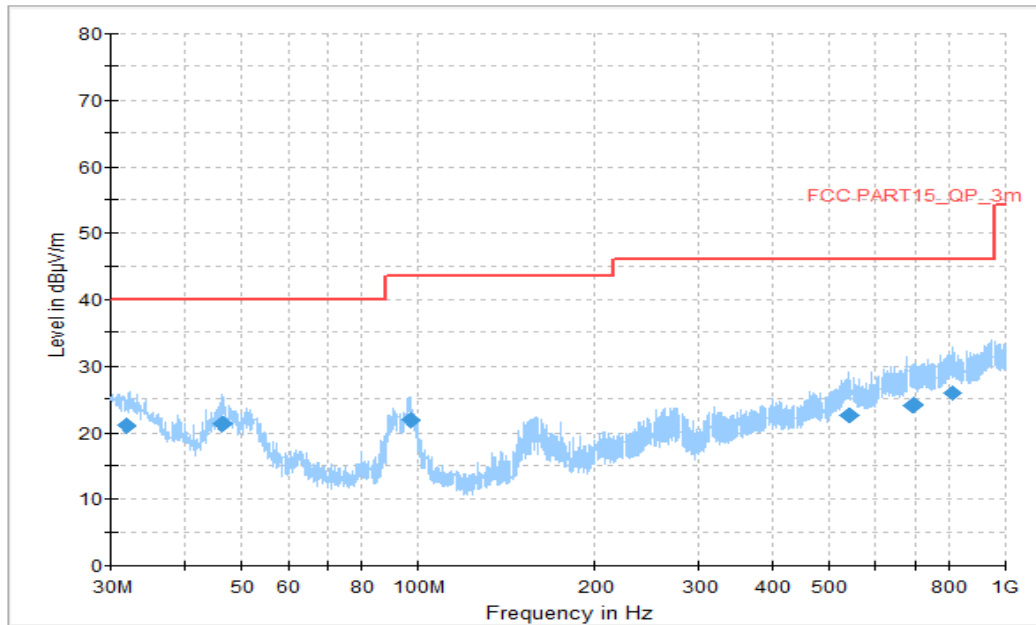


Figure A.1.21. Radiated Emission (LTE receiver Band 17, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
31.886111	20.91	40.00	19.09	V	-14	34.91
46.274444	21.22	40.00	18.78	V	-21	42.22
96.983889	21.80	43.52	21.72	V	-20	41.80
541.782778	22.53	46.02	23.49	H	-4	26.53
697.845000	24.23	46.02	21.79	H	-2	26.23
814.730000	25.88	46.02	20.14	V	-1	26.88

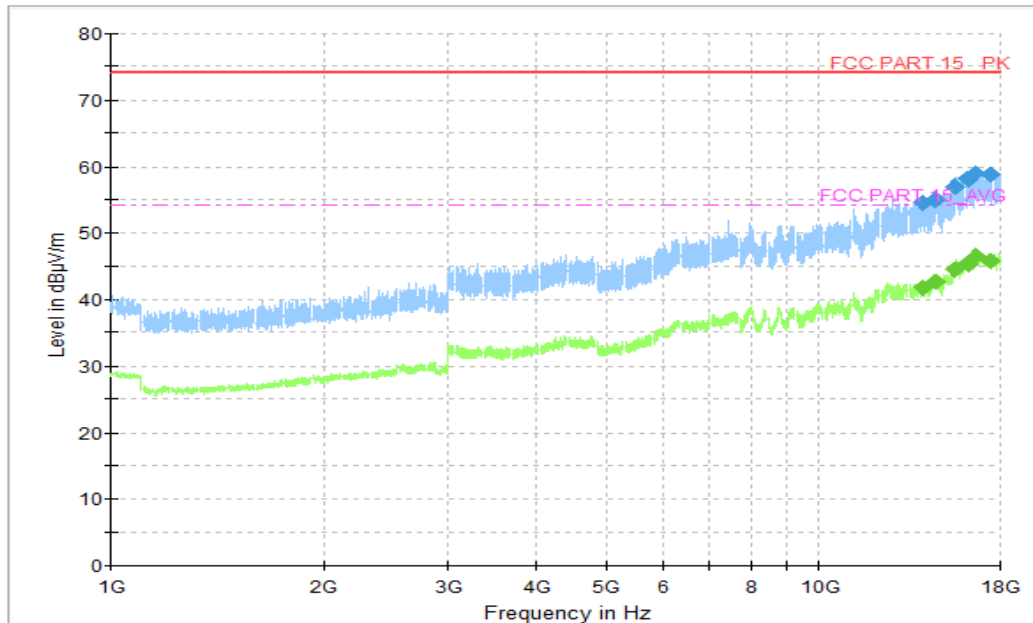


Figure A.1.22. Radiated Emission (LTE receiver Band 17, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
14022.750000	54.48	74.00	19.52	V	17	37.48
14592.500000	55.03	74.00	18.97	V	18	37.03
15566.750000	57.03	74.00	16.97	V	20	37.03
16251.500000	58.19	74.00	15.81	V	21	37.19
16666.250000	59.10	74.00	14.90	V	22	37.1
17484.750000	58.78	74.00	15.22	H	22	36.78

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
14022.750000	41.73	54.00	12.27	V	17	24.73
14592.500000	42.61	54.00	11.39	V	18	24.61
15566.750000	44.48	54.00	9.52	V	20	24.48
16251.500000	45.40	54.00	8.60	V	21	24.40
16666.250000	46.56	54.00	7.44	V	22	24.56
17484.750000	45.73	54.00	8.27	H	22	23.73

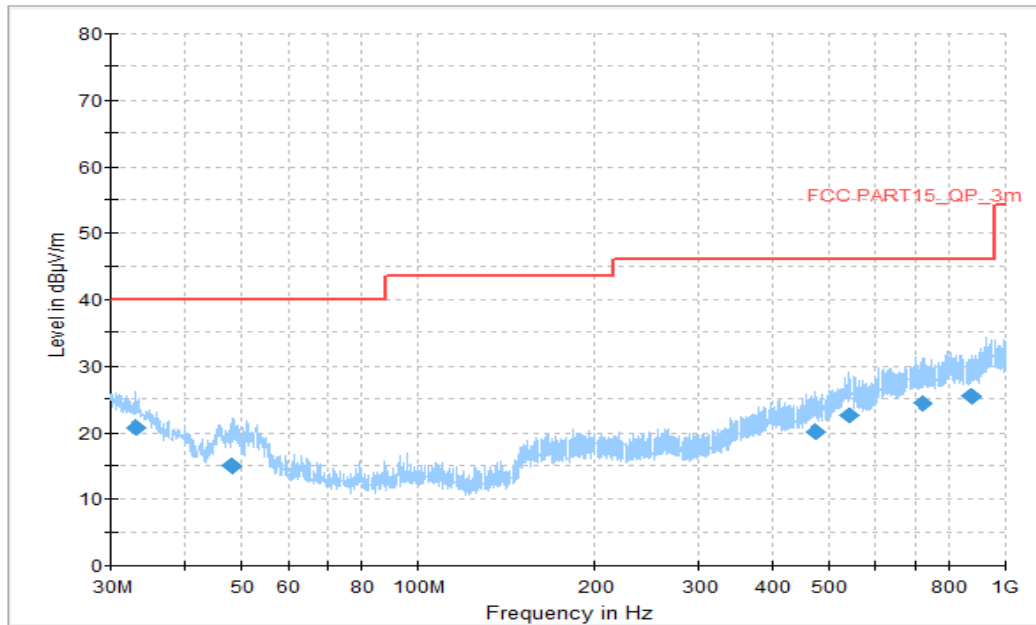


Figure A.1.23. Radiated Emission (GSM receiver 850MHz, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
32.963889	20.74	40.00	19.27	V	-14	34.74
47.945000	15.03	40.00	24.97	V	-21	36.03
474.637222	20.04	46.02	25.98	V	-7	27.04
541.890556	22.56	46.02	23.46	V	-4	26.56
720.478333	24.41	46.02	21.61	V	-2	26.41
872.660556	25.47	46.02	20.55	V	-1	26.47

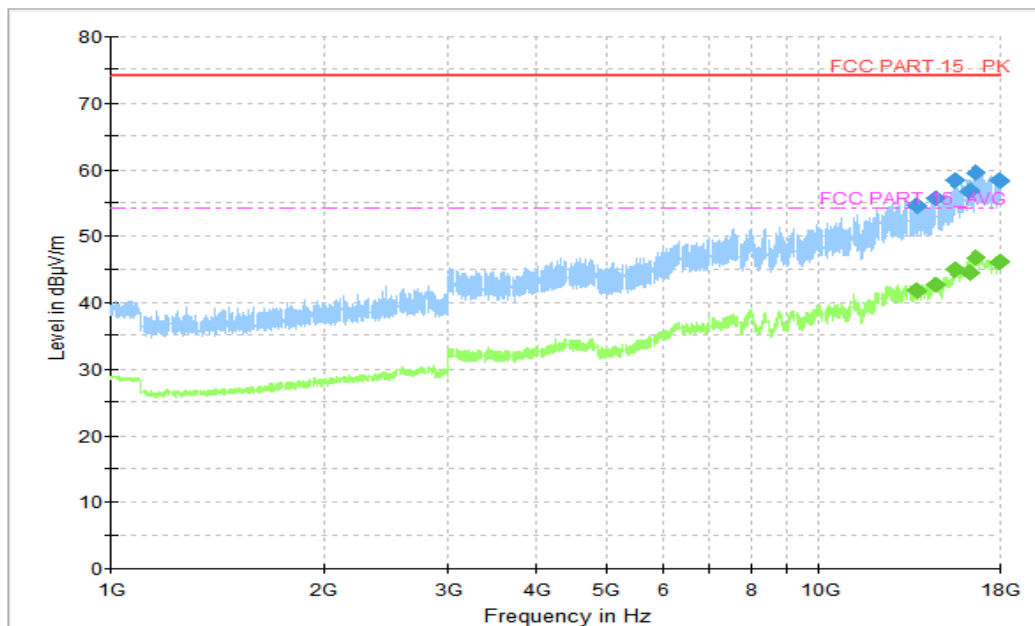


Figure A.1.24. Radiated Emission (GSM receiver 850MHz, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13739.250000	54.47	74.00	19.53	H	17	37.47
14574.250000	55.73	74.00	18.27	V	18	37.73
15559.750000	58.22	74.00	15.78	H	19	39.22
16319.250000	56.76	74.00	17.24	H	21	35.76
16648.250000	59.51	74.00	14.49	V	22	37.51
17973.250000	58.33	74.00	15.67	V	23	35.33

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13739.250000	41.78	54.00	12.22	H	17	24.78
14574.250000	42.69	54.00	11.31	V	18	24.69
15559.750000	44.89	54.00	9.11	H	19	25.89
16319.250000	44.40	54.00	9.60	H	21	23.40
16648.250000	46.62	54.00	7.38	V	22	24.62
17973.250000	46.07	54.00	7.93	V	23	23.07

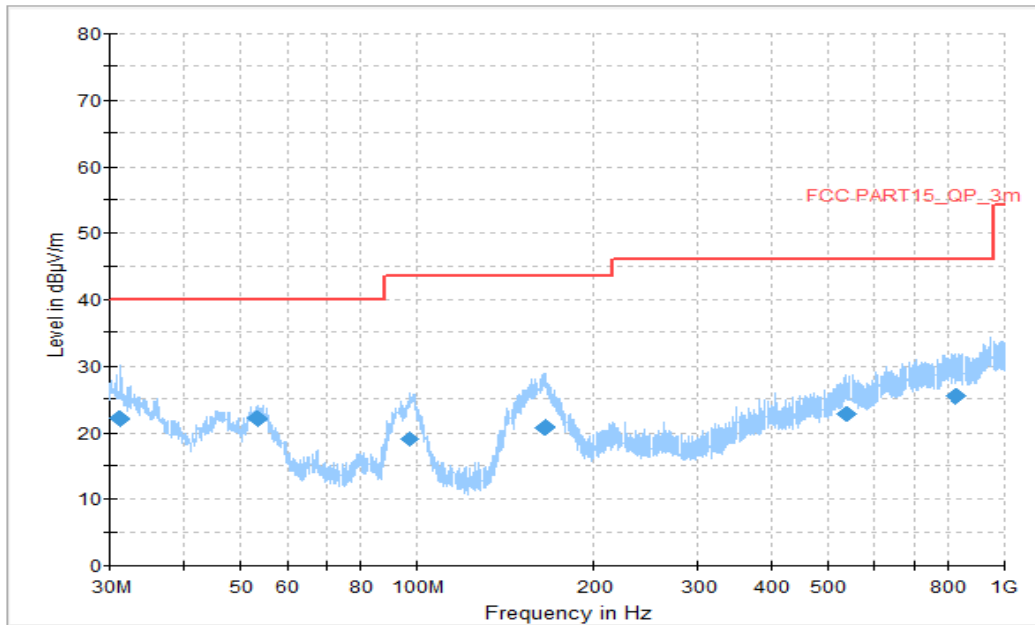


Figure A.1.25. Radiated Emission (GSM receiver 850MHz, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
31.131667	22.16	40.00	17.84	V	-13	35.16
53.226111	22.19	40.00	17.81	V	-22	44.19
97.361111	18.95	43.52	24.57	V	-20	38.95
164.722222	20.78	43.52	22.74	V	-18	38.78
536.232222	22.75	46.02	23.27	V	-4	26.75
822.813333	25.44	46.02	20.58	H	-1	26.44

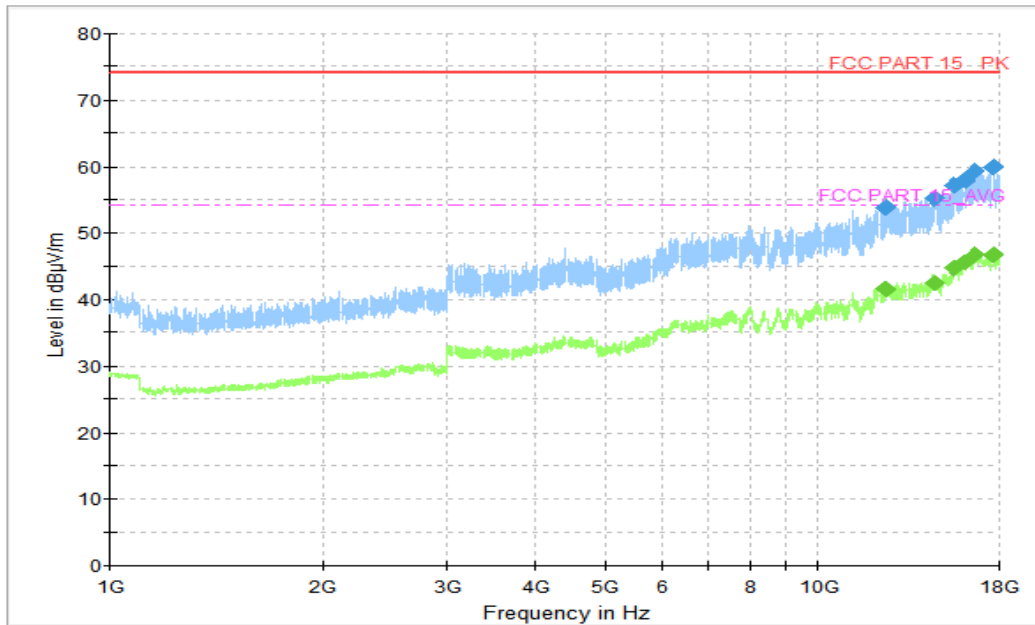


Figure A.1.26. Radiated Emission (GSM receiver 850MHz, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12457.750000	53.91	74.00	20.09	V	17	36.91
14577.500000	55.30	74.00	18.70	V	18	37.3
15554.750000	57.19	74.00	16.81	V	19	38.19
16136.500000	57.90	74.00	16.10	H	21	36.90
16594.250000	59.11	74.00	14.89	H	22	37.11
17696.000000	59.90	74.00	14.10	V	23	36.90

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12457.750000	41.56	54.00	12.44	V	17	24.56
14577.500000	42.38	54.00	11.62	V	18	24.38
15554.750000	44.59	54.00	9.41	V	19	25.59
16136.500000	45.59	54.00	8.41	H	21	24.59
16594.250000	46.79	54.00	7.21	H	22	24.79
17696.000000	46.79	54.00	7.21	V	23	23.79

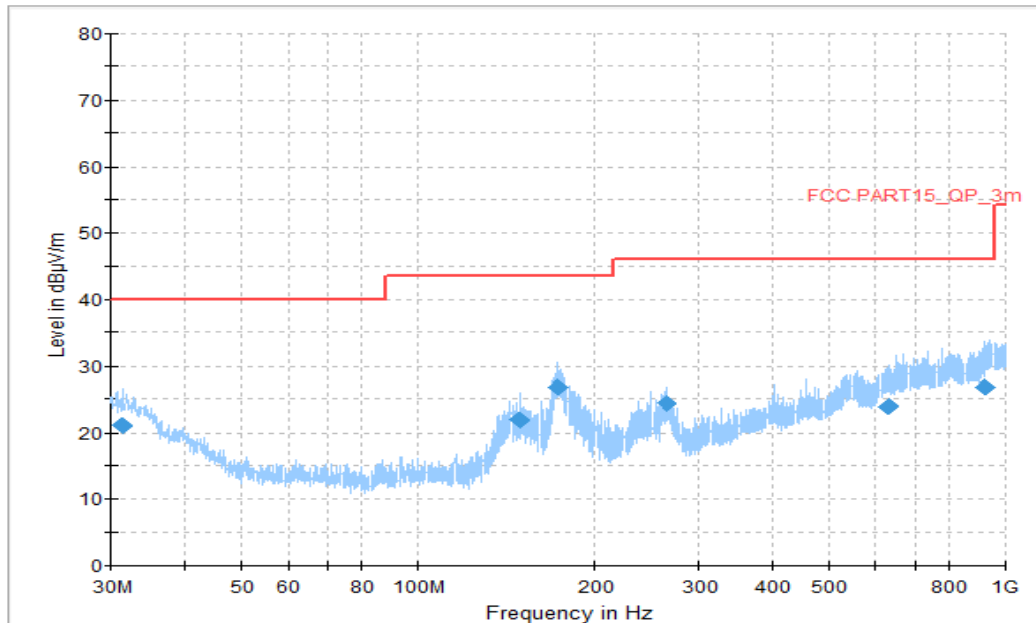


Figure A.1.27. Radiated Emission (Data Transfer: PC TO EUT, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
31.401111	20.92	40.00	19.08	H	-13	33.92
148.555556	22.01	43.52	21.51	H	-19	41.01
172.967222	26.83	43.52	16.69	H	-18	44.83
264.524444	24.26	46.02	21.76	H	-14	38.26
632.639444	23.82	46.02	22.20	H	-3	26.82
918.789444	26.73	46.02	19.29	V	0	26.73



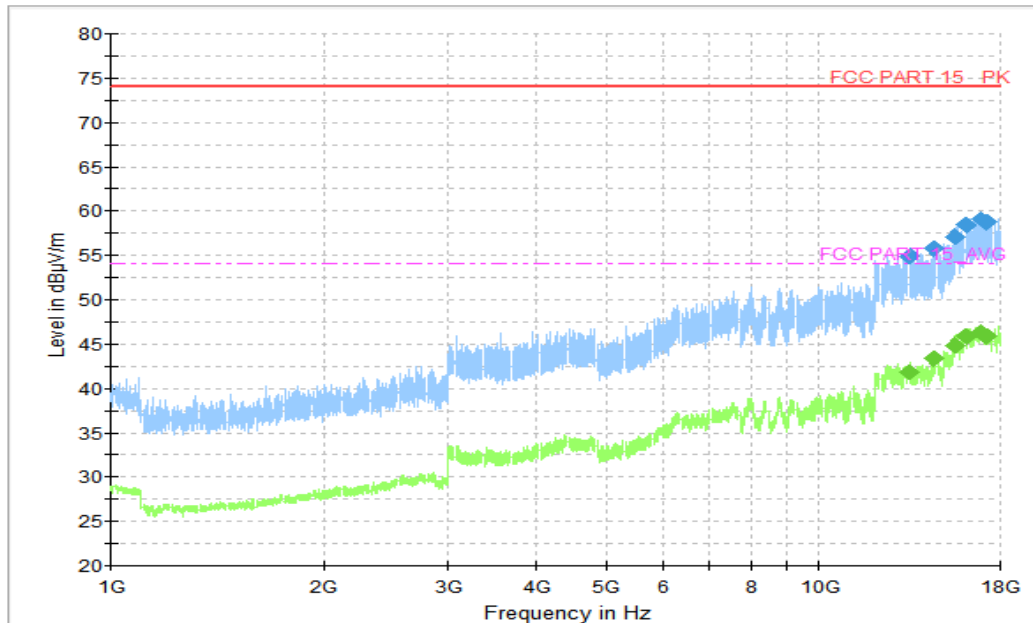


Figure A.1.28. Radiated Emission (Data Transfer: PC TO EUT, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13393.750000	54.78	74.00	19.22	V	17	37.78
14553.000000	55.63	74.00	18.37	V	18	37.63
15573.000000	57.09	74.00	16.91	H	20	37.09
16151.000000	58.32	74.00	15.68	V	21	37.32
16934.500000	59.10	74.00	14.90	H	22	37.1
17229.500000	58.78	74.00	15.22	V	22	36.78

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13393.750000	41.74	54.00	12.26	V	17	24.74
14553.000000	43.32	54.00	10.68	V	18	25.32
15573.000000	44.85	54.00	9.15	H	20	24.85
16151.000000	45.83	54.00	8.17	V	21	24.83
16934.500000	46.24	54.00	7.76	H	22	24.24
17229.500000	45.75	54.00	8.25	V	22	23.75

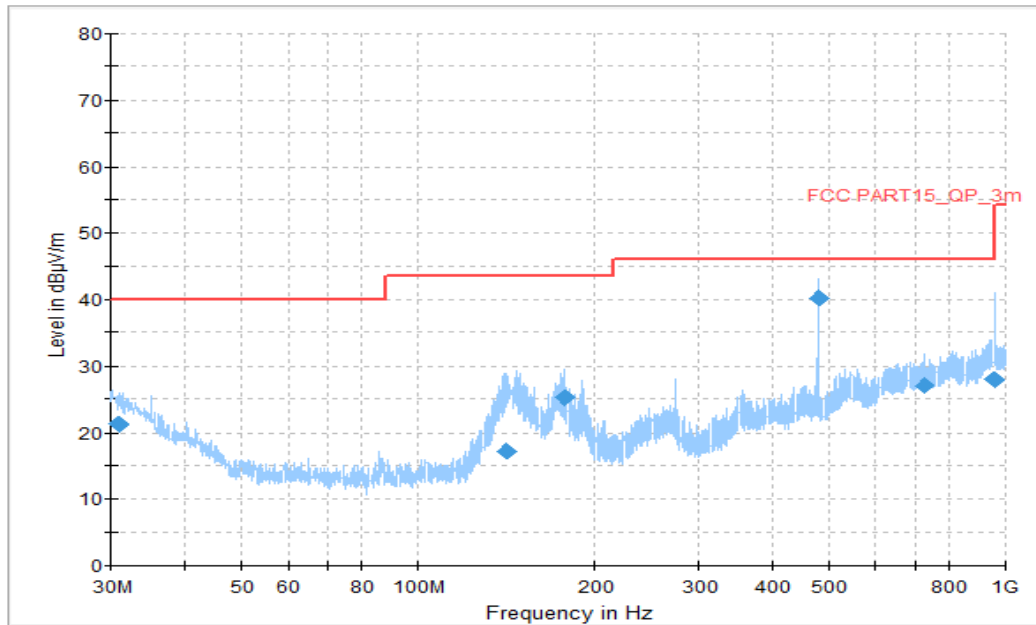


Figure A.1.29. Radiated Emission (Data Transfer: EUT TO PC, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.808333	21.21	40.00	18.79	H	-13	34.21
141.765556	17.31	43.52	26.21	H	-20	37.31
177.601667	25.35	43.52	18.17	H	-18	43.35
479.972222	40.17	46.02	5.85	H	-7	47.17
727.322222	26.95	46.02	19.07	H	-2	28.95
960.014444	27.96	53.98	26.02	V	1	26.96

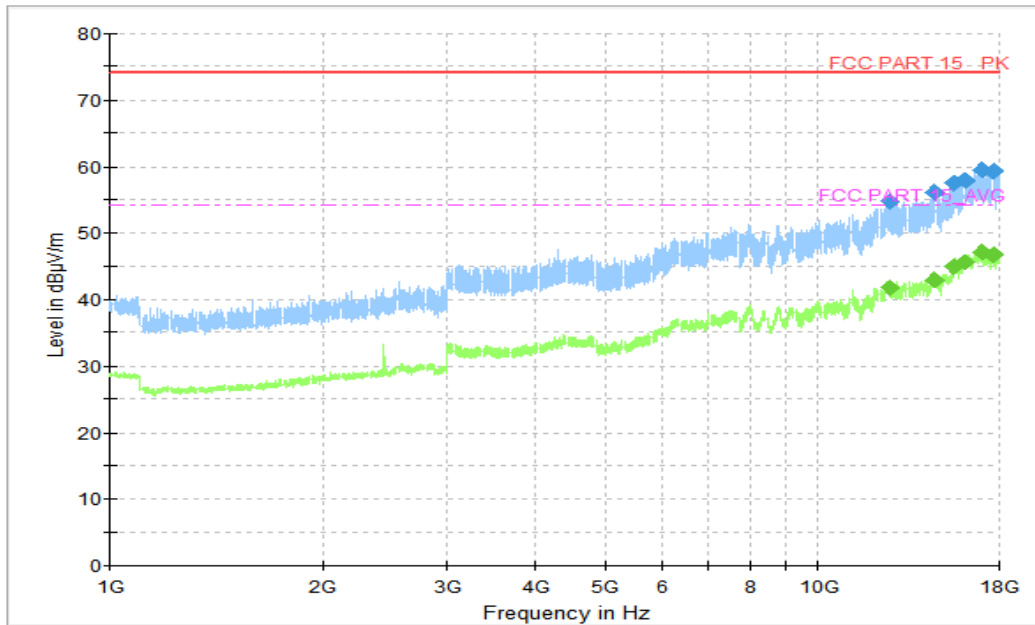


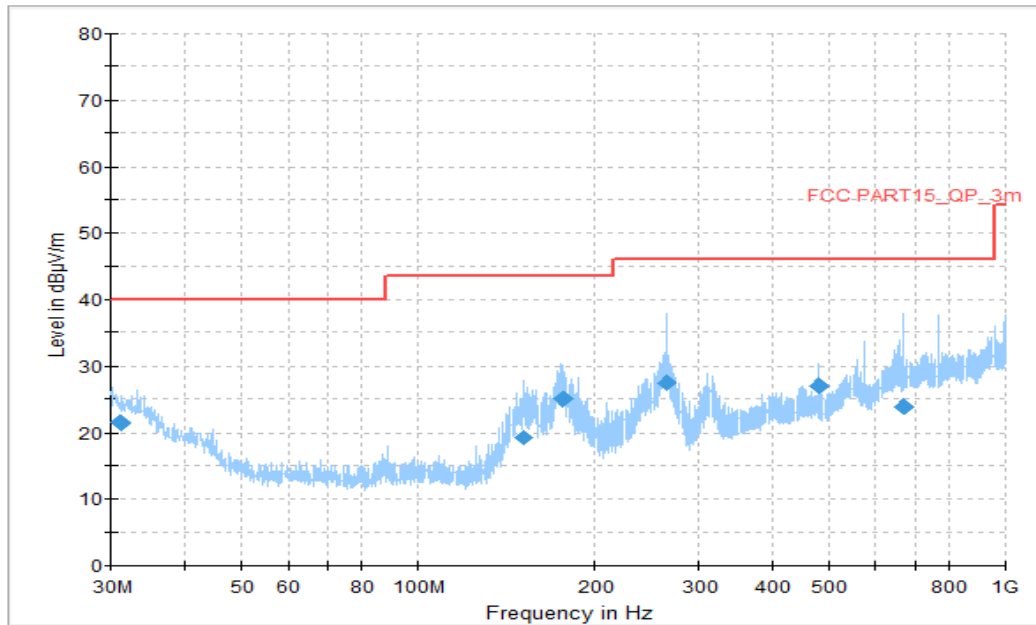
Figure A.1.30. Radiated Emission (Data Transfer: EUT TO PC, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12587.500000	54.68	74.00	19.32	V	17	37.68
14592.750000	56.19	74.00	17.81	H	18	38.19
15556.500000	57.40	74.00	16.60	H	19	38.40
16159.000000	57.89	74.00	16.11	V	21	36.89
17049.750000	59.44	74.00	14.56	H	22	37.44
17692.250000	59.23	74.00	14.77	H	23	36.23

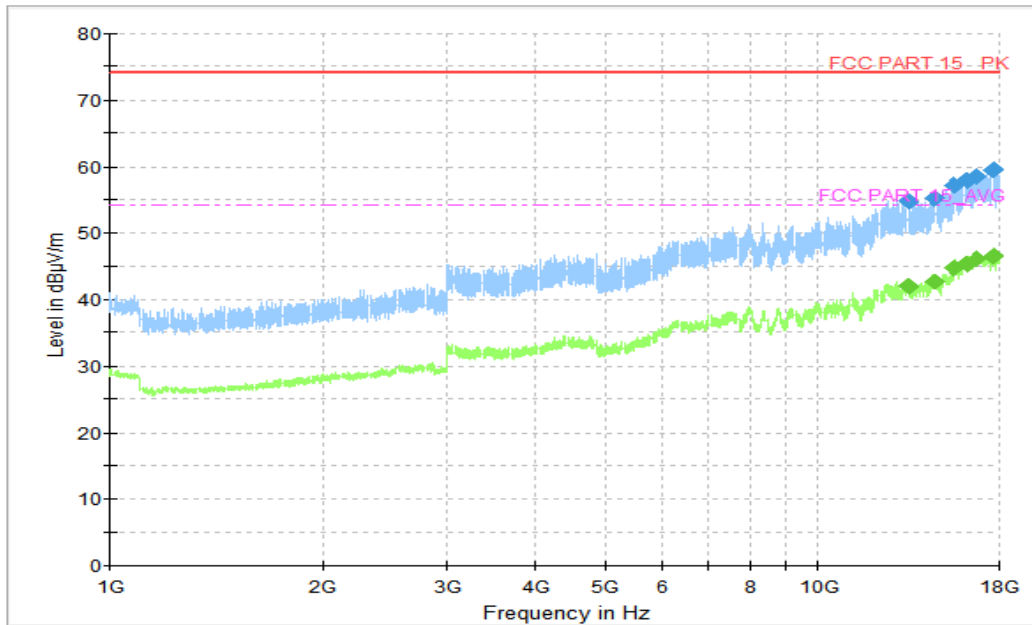
**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12587.500000	41.79	54.00	12.21	V	17	24.79
14592.750000	42.99	54.00	11.01	H	18	24.99
15556.500000	44.92	54.00	9.08	H	19	25.92
16159.000000	45.67	54.00	8.33	V	21	24.67
17049.750000	47.12	54.00	6.88	H	22	25.12
17692.250000	46.67	54.00	7.33	H	23	23.67



**Figure A.1.31. Radiated Emission (Data Transfer: PC TO TF Card, 30MHz to 1GHz)**  
**Final\_Results**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
31.239444	21.45	40.00	18.56	V	-13	34.45
150.818889	19.21	43.52	24.31	V	-18	37.21
176.901111	25.07	43.52	18.45	H	-18	43.07
265.548333	27.43	46.02	18.59	H	-14	41.43
480.026111	27.11	46.02	18.91	H	-7	34.11
671.978333	23.95	46.02	22.07	H	-3	26.95

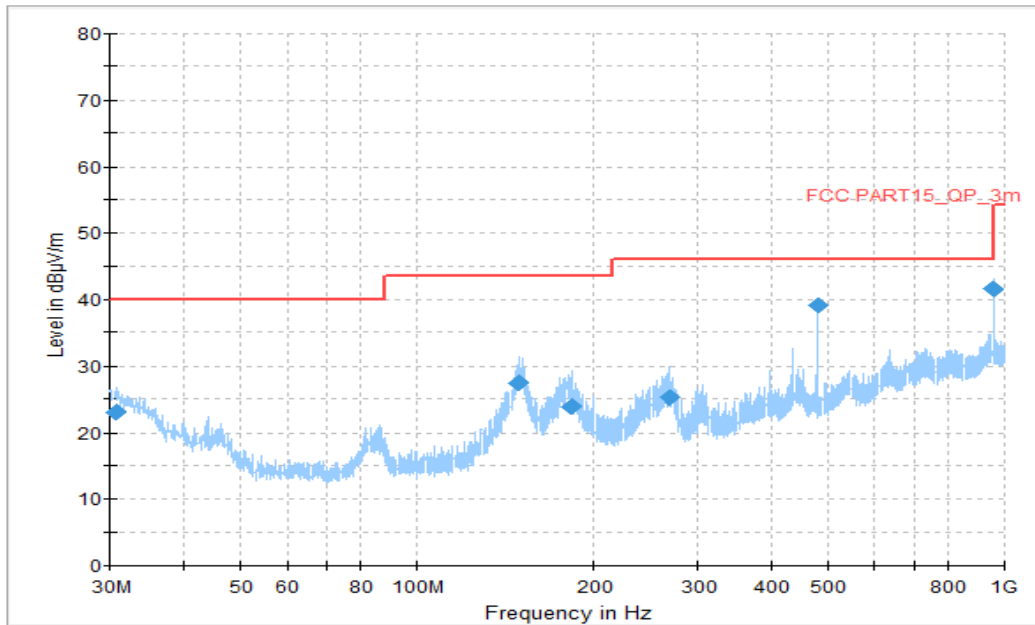


**Figure A.1.32. Radiated Emission (Data Transfer: PC TO TF Card, 1GHz to 18GHz)**  
**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13382.750000	54.74	74.00	19.26	H	17	37.74
14592.750000	55.14	74.00	18.86	V	18	37.14
15562.500000	57.15	74.00	16.85	V	19	38.15
16264.750000	57.93	74.00	16.07	H	21	36.93
16707.500000	58.52	74.00	15.48	H	21	37.52
17705.750000	59.34	74.00	14.66	V	23	36.34

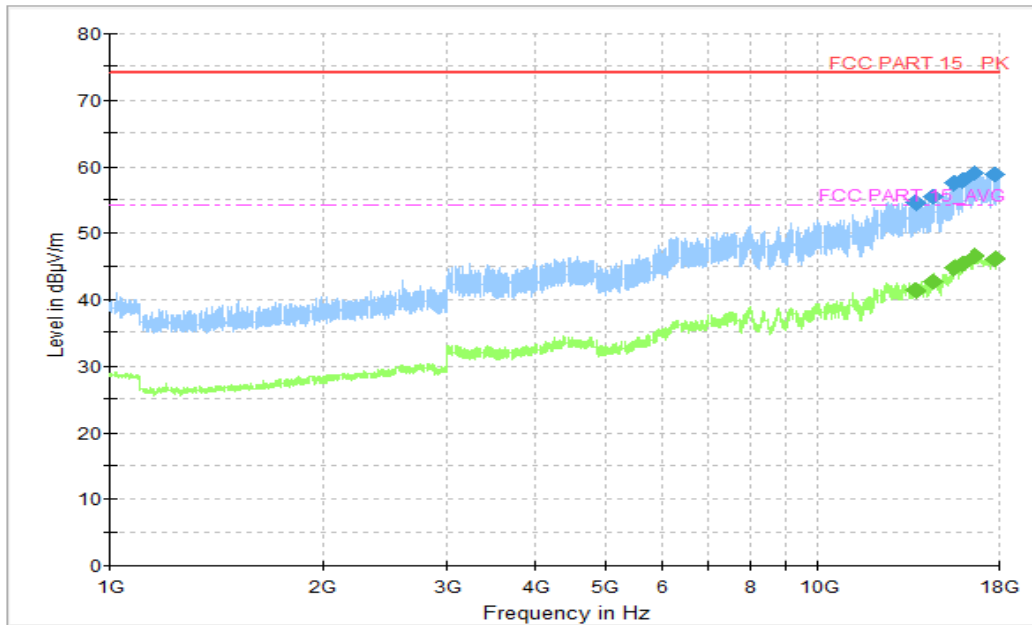
**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13382.750000	42.07	54.00	11.93	H	17	25.07
14592.750000	42.63	54.00	11.37	V	18	24.63
15562.500000	44.61	54.00	9.39	V	19	25.61
16264.750000	45.36	54.00	8.64	H	21	24.36
16707.500000	46.01	54.00	7.99	H	21	25.01
17705.750000	46.57	54.00	7.43	V	23	23.57



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

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.592778	23.11	40.00	16.89	V	-13	36.11
149.148333	27.59	43.52	15.93	H	-19	46.59
182.667222	23.83	43.52	19.69	V	-18	41.83
267.973333	25.33	46.02	20.69	H	-14	39.33
479.972222	39.10	46.02	6.92	H	-7	46.1
960.014444	41.60	53.98	12.38	H	1	40.60



**Figure A.1.34. Radiated Emission (Data Transfer: TF Card 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)
13720.500000	54.52	74.00	19.48	H	17	37.52
14542.500000	55.43	74.00	18.57	H	18	37.43
15556.000000	57.43	74.00	16.57	V	19	38.43
16025.000000	57.96	74.00	16.04	V	20	37.96
16609.250000	59.03	74.00	14.97	V	22	37.03
17727.250000	58.77	74.00	15.23	V	23	35.77

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13720.500000	41.23	54.00	12.77	H	17	24.23
14542.500000	42.68	54.00	11.32	H	18	24.68
15556.000000	44.69	54.00	9.31	V	19	25.69
16025.000000	45.30	54.00	8.70	V	20	25.30
16609.250000	46.55	54.00	7.45	V	22	24.55
17727.250000	46.08	54.00	7.92	V	23	23.08



## 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:

**FM receiver:** The EUT is connected to a charger for charging and open FM function. 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.

**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.

**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.

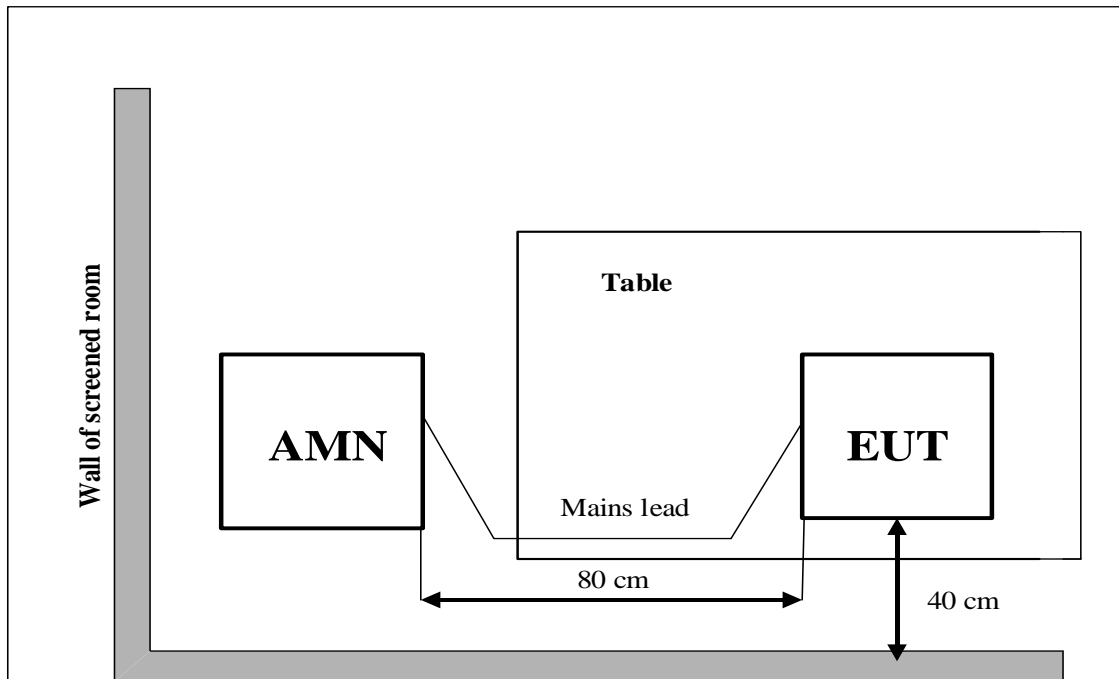
### A.2.3 Measurement Limit

Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	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.

## 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
			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.

## 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
			UT05aa/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.

## 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
			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.

## 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
			UT05aa/Set.3	
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.

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
			UT05aa/Set.4	
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
			UT05aa/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
			UT05aa/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
			UT12aa/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.



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
			UT05aa/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.

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
			UT05aa/Set.3	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.11.	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
			UT05aa/Set.4	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.12.	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

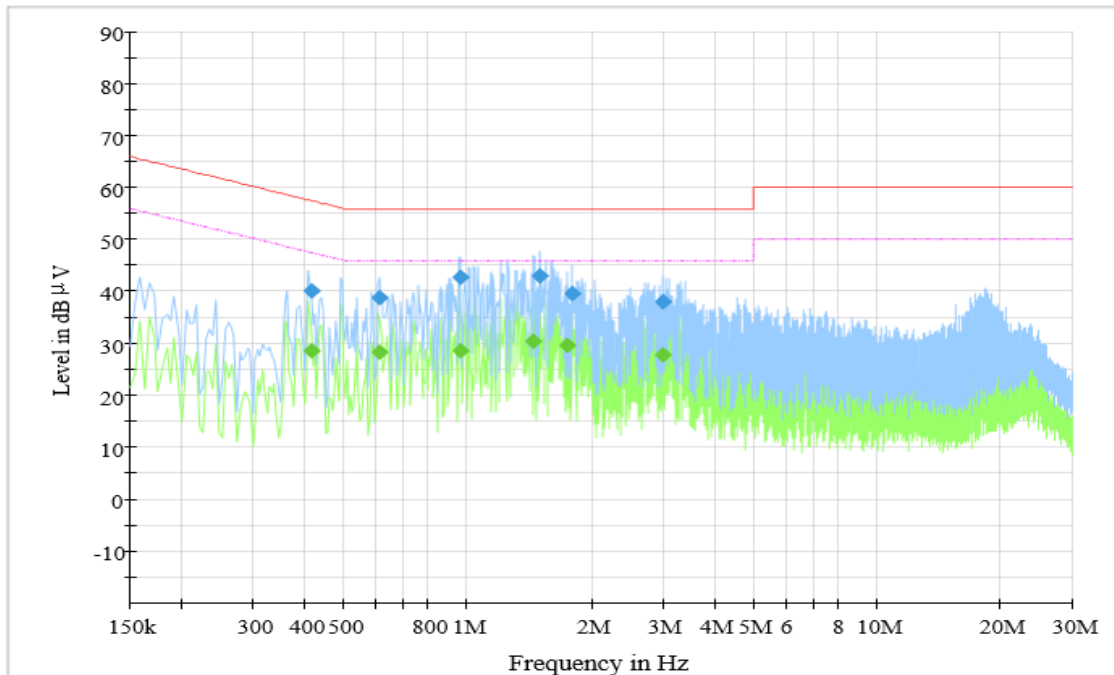


Figure A.2.1. Conducted Emission (Camera)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.414621	40.12	57.56	17.43	L1	10	30.12
0.610543	38.86	56.00	17.14	L1	10	28.86
0.960214	42.67	56.00	13.33	L1	10	32.67
1.501543	42.92	56.00	13.08	L1	10	32.92
1.800279	39.55	56.00	16.45	L1	10	29.55
2.989779	38.14	56.00	17.86	L1	10	28.14

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.414621	28.50	47.56	19.06	L1	10	18.50
0.610779	28.23	46.00	17.77	L1	10	18.23
0.960450	28.65	46.00	17.35	L1	10	18.65
1.450371	30.34	46.00	15.66	L1	10	20.34
1.753371	29.63	46.00	16.37	L1	10	19.63
2.989779	27.86	46.00	18.14	L1	10	17.86

AC Input Port/ Voltage: 120V/60Hz

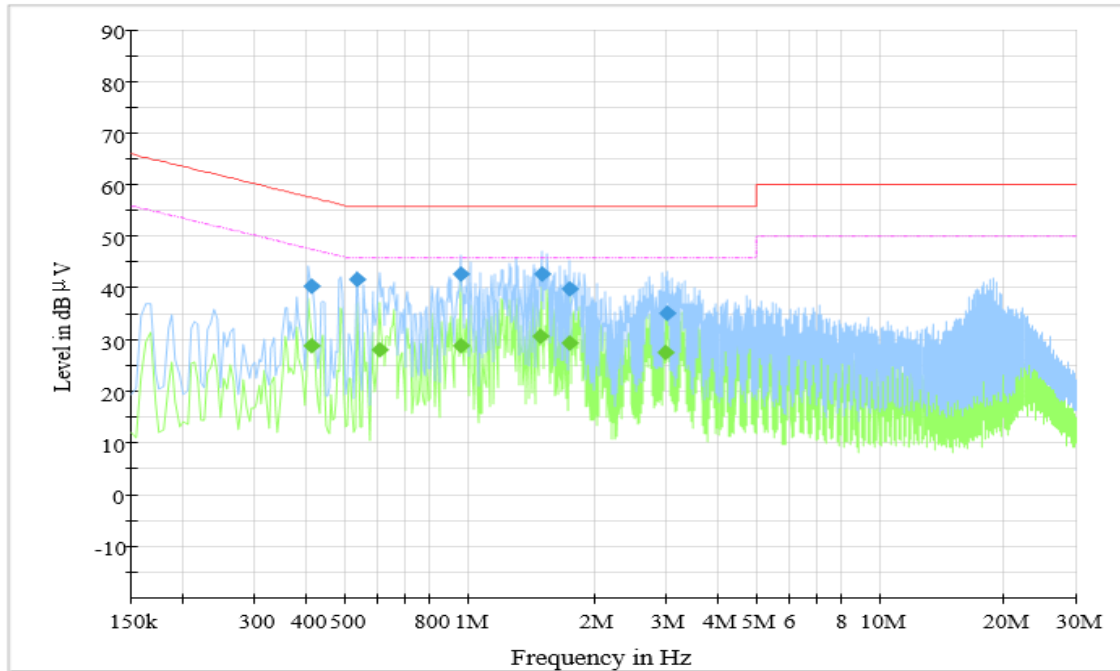


Figure A.2.2. Conducted Emission (Video Player)

Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.410357	40.26	57.64	17.38	L1	10	30.26
0.529521	41.6	56.00	14.40	L1	10	31.6
0.951686	42.72	56.00	13.28	L1	10	32.72
1.497514	42.74	56.00	13.26	L1	10	32.74
1.744843	39.75	56.00	16.25	L1	10	29.75
3.032893	35.25	56.00	20.75	N	10	25.25

Final\_Result\_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.410357	28.83	47.64	18.81	L1	10	18.83
0.606514	27.97	46.00	18.03	L1	10	17.97
0.951686	28.71	46.00	17.29	L1	10	18.71
1.493014	30.61	46.00	15.39	L1	10	20.61
1.749107	29.37	46.00	16.63	L1	10	19.37
2.998779	27.52	46.00	18.48	L1	10	17.52

AC Input Port/ Voltage: 120V/60Hz

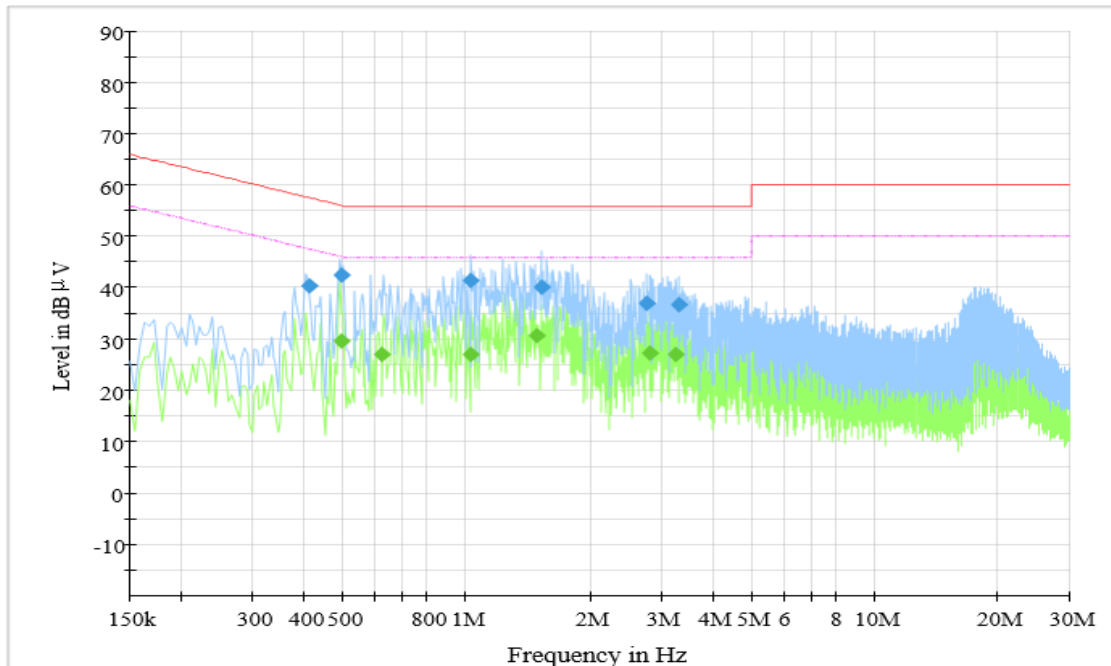


Figure A.2.3. Conducted Emission (FM receiver)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.410357	40.41	57.64	17.23	L1	10	30.41
0.495643	42.46	56.07	13.61	L1	10	32.46
1.023943	41.5	56.00	14.5	L1	10	31.50
1.527600	40.21	56.00	15.79	L1	10	30.21
2.772771	36.92	56.00	19.09	L1	10	26.92
3.309600	36.78	56.00	19.22	L1	11	25.78

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.495643	29.51	46.07	16.56	L1	10	19.51
0.623100	26.93	46.00	19.07	L1	10	16.93
1.023943	27.06	46.00	18.94	L1	10	17.06
1.480693	30.59	46.00	15.41	L1	10	20.59
2.819443	27.35	46.00	18.65	L1	10	17.35
3.267193	26.98	46.00	19.02	L1	11	15.98

AC Input Port/ Voltage: 120V/60Hz

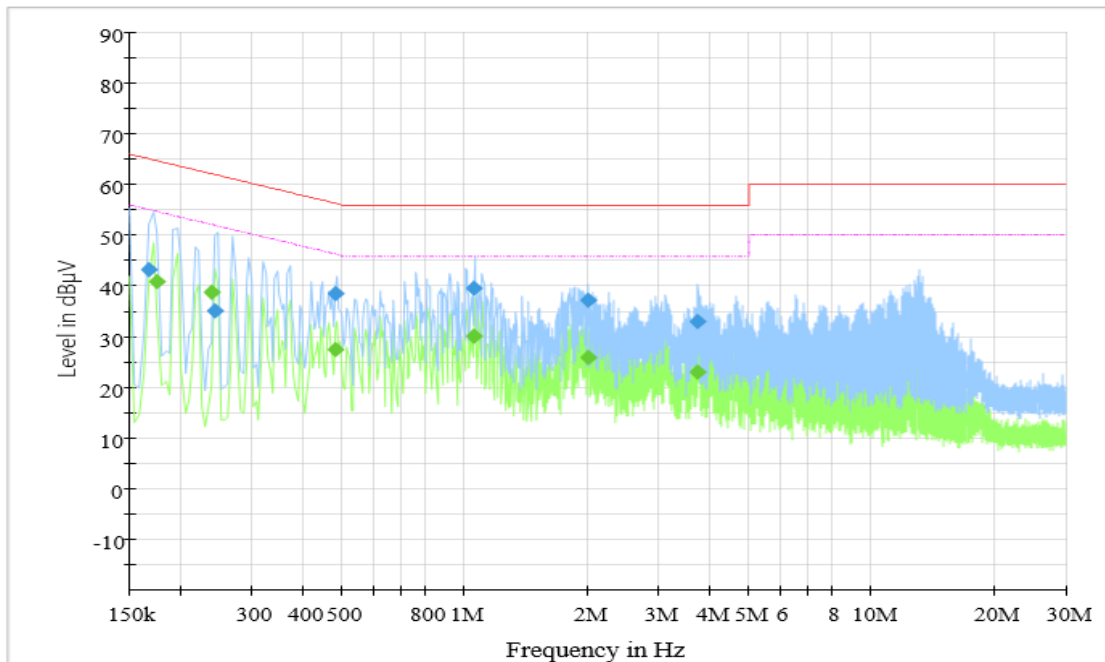


Figure A.2.4. Conducted Emission (Camera)

Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.166821	43.31	65.12	21.80	L1	10	33.31
0.243579	35.23	61.97	26.74	L1	10	25.23
0.482379	38.47	56.30	17.83	L1	10	28.47
1.053793	39.64	56.00	16.36	L1	10	29.64
2.013729	37.27	56.00	18.73	L1	10	27.27
3.740293	33.07	56.00	22.93	L1	10	23.07

Final\_Result\_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.175821	40.85	54.68	13.83	L1	10	30.85
0.239314	38.86	52.12	13.26	L1	10	28.86
0.482379	27.63	46.30	18.67	L1	10	17.63
1.053793	30.18	46.00	15.82	L1	10	20.18
2.009464	25.98	46.00	20.02	L1	10	15.98
3.744793	23.07	46.00	22.93	L1	10	13.07



AC Input Port/ Voltage: 120V/60Hz

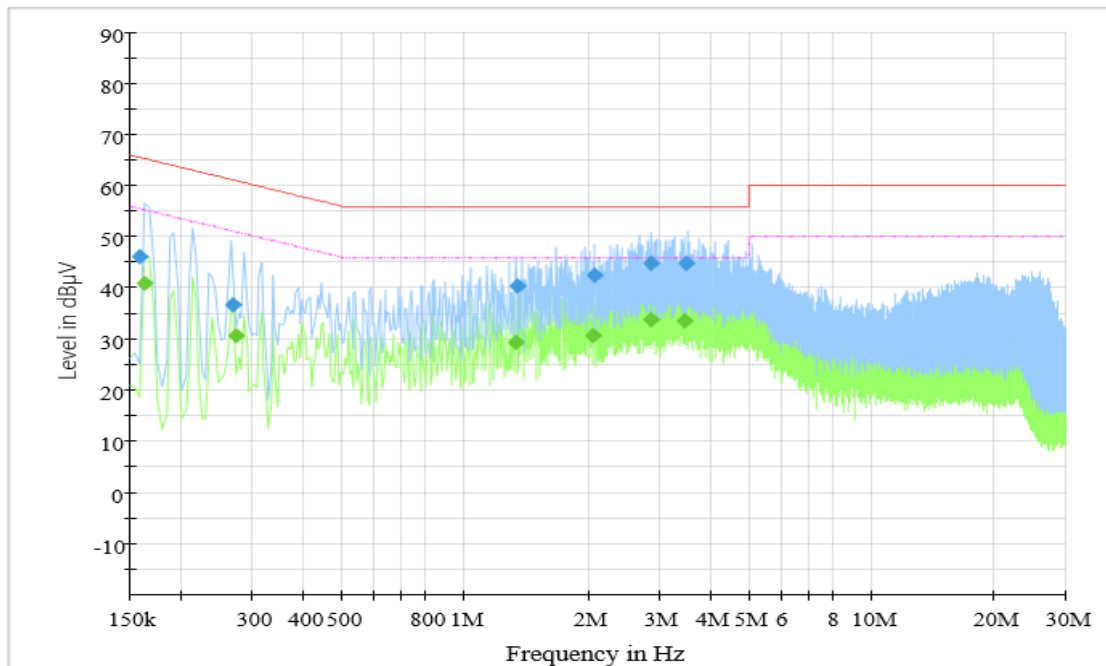


Figure A.2.5. Conducted Emission (Camera)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.158293	46.08	65.55	19.48	N	10	36.08
0.269636	36.70	61.13	24.43	L1	10	26.7
1.339971	40.33	56.00	15.67	L1	10	30.33
2.086221	42.46	56.00	13.54	L1	10	32.46
2.870379	44.86	56.00	11.14	L1	10	34.86
3.514286	44.79	56.00	11.21	L1	10	34.79

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.162557	40.88	55.33	14.45	L1	10	30.88
0.273900	30.55	51.00	20.45	L1	10	20.55
1.335707	29.26	46.00	16.74	L1	10	19.26
2.064900	30.72	46.00	15.28	L1	10	20.72
2.870379	33.94	46.00	12.06	L1	10	23.94
3.476379	33.49	46.00	12.51	L1	10	23.49

AC Input Port/ Voltage: 120V/60Hz

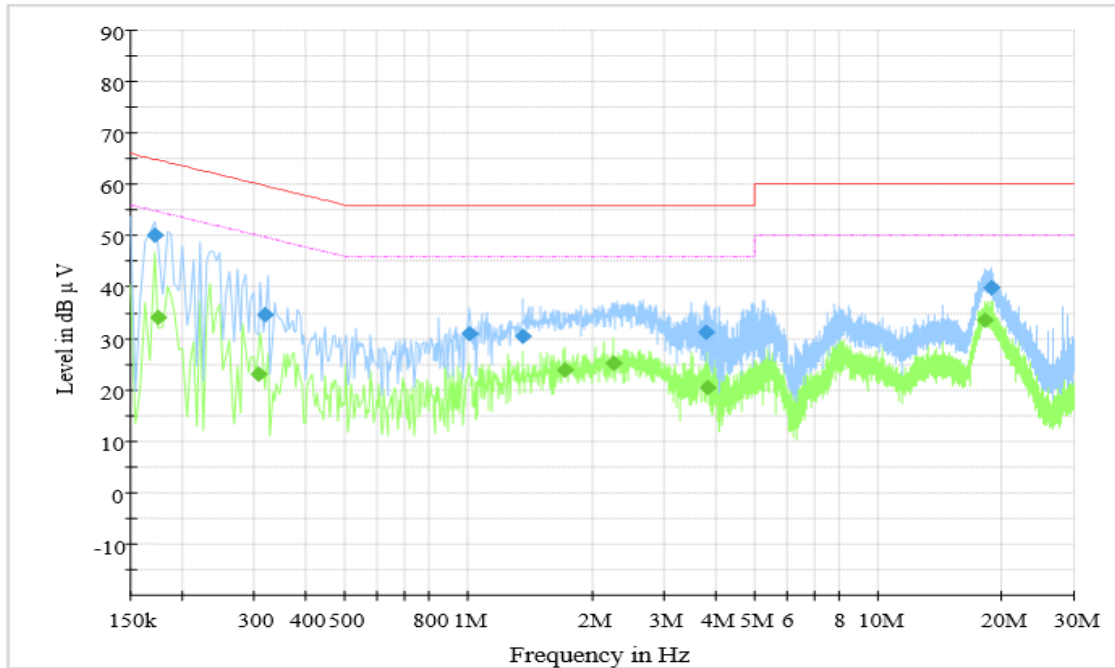


Figure A.2.6. Conducted Emission (Data Transfer)

Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.171321	50.05	64.90	14.85	N	10	40.05
0.320336	34.60	59.70	25.09	N	10	24.6
1.007357	30.85	56.00	25.15	L1	10	20.85
1.352293	30.46	56.00	25.54	L1	10	20.46
3.783171	31.26	56.00	24.74	N	10	21.26
18.844629	39.96	60.00	20.04	L1	10	29.96

Final\_Result\_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.175821	34.17	54.68	20.51	N	10	24.17
0.307543	22.98	50.04	27.06	L1	10	12.98
1.719021	23.96	46.00	22.04	N	10	13.96
2.252057	25.12	46.00	20.88	L1	10	15.12
3.829843	20.35	46.00	25.65	N	10	10.35
18.179164	33.60	50.00	16.40	N	10	23.60

AC Input Port/ Voltage: 240V/60Hz

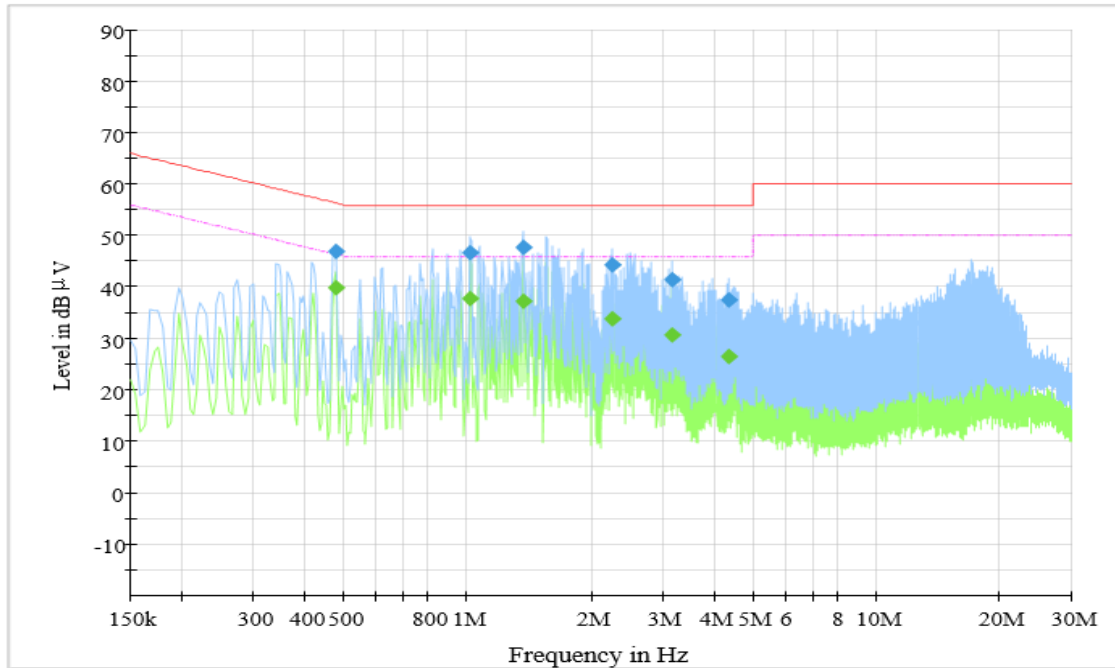


Figure A.2.7. Conducted Emission (Camera)

Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.478586	46.82	56.36	9.55	L1	10	36.82
1.015886	46.65	56.00	9.35	L1	10	36.65
1.369821	47.62	56.00	8.38	L1	10	37.62
2.260821	44.41	56.00	11.59	L1	10	34.41
3.156086	41.37	56.00	14.63	L1	10	31.37
4.345821	37.58	56.00	18.42	L1	11	26.58

Final\_Result\_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.478350	39.92	46.37	6.45	L1	10	29.92
1.015650	37.72	46.00	8.28	L1	10	27.72
1.369821	37.20	46.00	8.80	L1	10	27.20
2.260821	33.93	46.00	12.07	L1	10	23.93
3.156321	30.63	46.00	15.37	L1	10	20.63
4.345821	26.40	46.00	19.60	L1	11	15.40

AC Input Port/ Voltage: 240V/60Hz

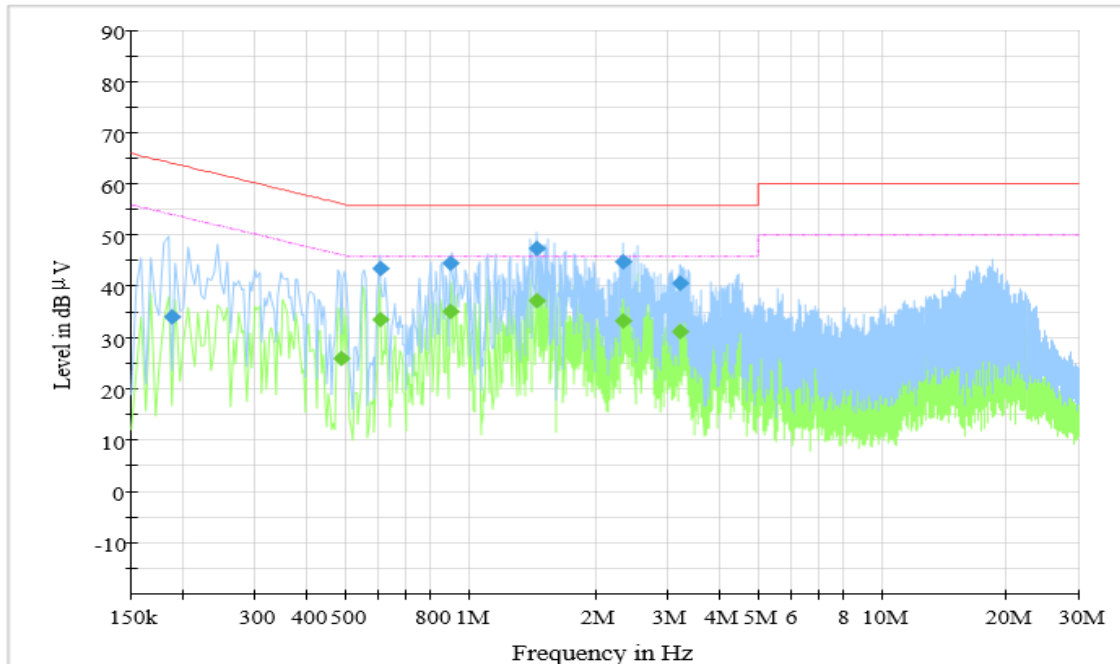


Figure A.2.8. Conducted Emission (Video Player)

Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.188614	34.15	64.10	29.95	L1	10	24.15
0.602014	43.54	56.00	12.46	L1	10	33.54
0.896014	44.70	56.00	11.30	L1	10	34.70
1.441843	47.59	56.00	8.41	L1	10	37.59
2.337343	44.89	56.00	11.11	L1	10	34.89
3.232843	40.62	56.00	15.38	L1	10	30.62

Final\_Result\_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.486643	25.93	46.23	20.30	N	10	15.93
0.602014	33.46	46.00	12.54	L1	10	23.46
0.896014	35.01	46.00	10.99	L1	10	25.01
1.441843	37.12	46.00	8.88	L1	10	27.12
2.337343	33.37	46.00	12.63	L1	10	23.37
3.232843	31.28	46.00	14.72	L1	10	21.28

AC Input Port/ Voltage: 240V/60Hz

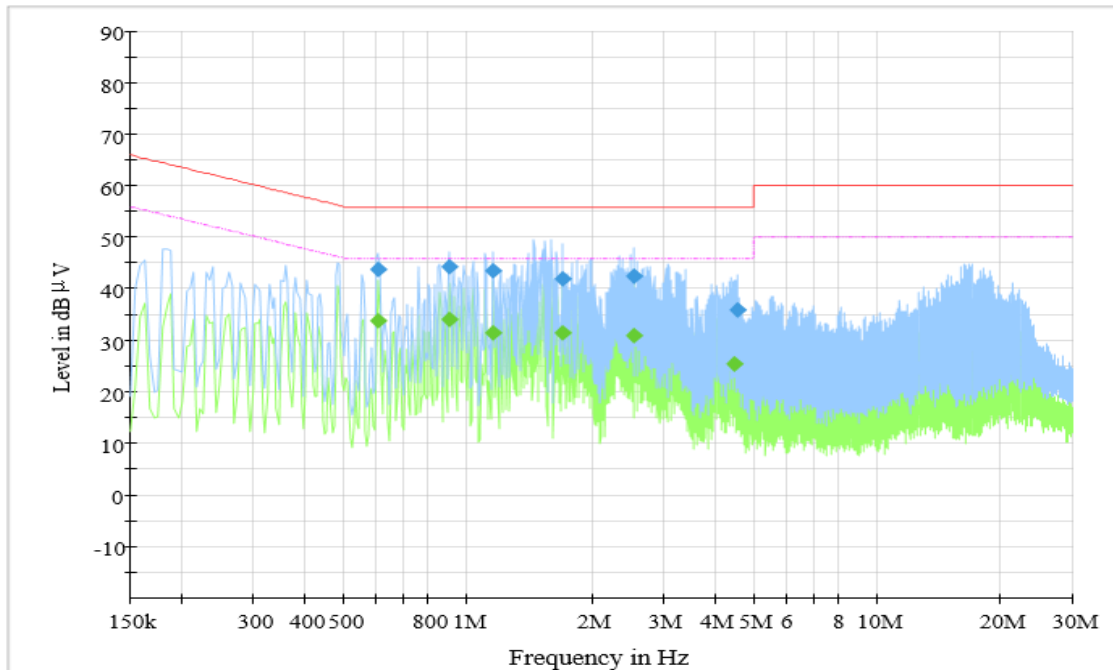


Figure A.2.9. Conducted Emission (FM receiver)

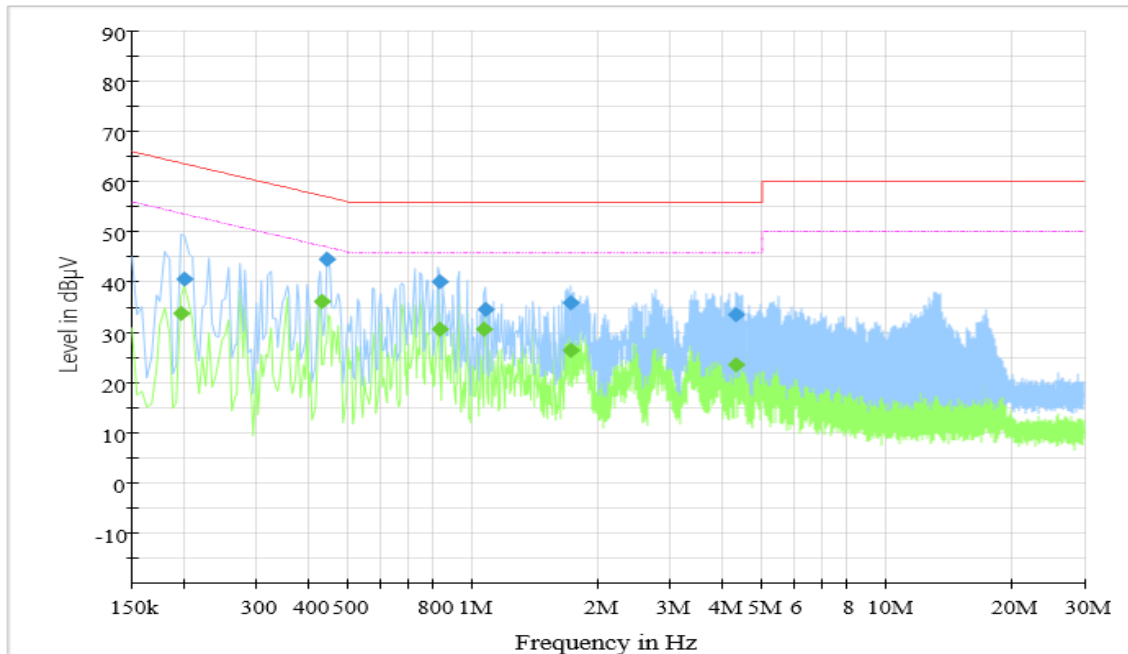
Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.602014	43.78	56.00	12.22	L1	10	33.78
0.900514	44.43	56.00	11.57	L1	10	34.43
1.147607	43.66	56.00	12.34	L1	10	33.66
1.697700	41.99	56.00	14.01	L1	10	31.99
2.542029	42.44	56.00	13.56	L1	10	32.44
4.554771	35.96	56.00	20.04	L1	10	25.96

Final\_Result\_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.602014	33.91	46.00	12.09	L1	10	23.91
0.900279	34.20	46.00	11.80	L1	10	24.2
1.147607	31.56	46.00	14.44	L1	10	21.56
1.706700	31.54	46.00	14.46	L1	10	21.54
2.542029	31.00	46.00	15.00	L1	10	21
4.482279	25.45	46.00	20.55	L1	10	15.45

**AC Input Port/ Voltage: 240V/60Hz**



**Figure A.2.10. Conducted Emission (Camera)**

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.201407	40.76	63.55	22.79	N	10	30.76
0.444000	44.66	56.99	12.33	L1	10	34.66
0.828257	40.24	56.00	15.76	L1	10	30.24
1.071086	34.71	56.00	21.29	L1	10	24.71
1.714757	35.83	56.00	20.17	L1	10	25.83
4.307914	33.67	56.00	22.33	L1	10	23.67

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.196671	33.76	53.75	19.99	N	10	23.76
0.431679	36.06	47.22	11.16	L1	10	26.06
0.828257	30.69	46.00	15.31	L1	10	20.69
1.066586	30.62	46.00	15.38	L1	10	20.62
1.714757	26.40	46.00	19.60	L1	10	16.4
4.307914	23.57	46.00	22.43	L1	10	13.57

AC Input Port/ Voltage: 240V/60Hz

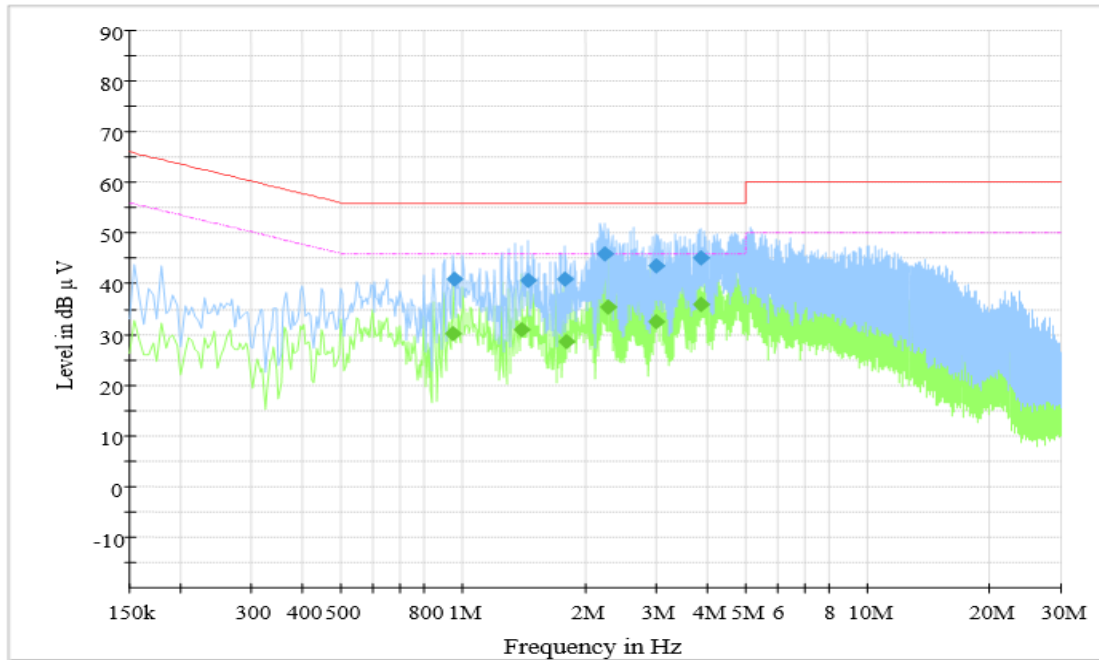


Figure A.2.11. Conducted Emission (Camera)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.951921	40.99	56.00	15.01	L1	10	30.99
1.441843	40.77	56.00	15.23	L1	10	30.77
1.787486	40.79	56.00	15.21	L1	10	30.79
2.243764	45.83	56.00	10.17	L1	10	35.83
2.990250	43.58	56.00	12.42	L1	10	33.58
3.881250	45.13	56.00	10.87	L1	10	35.13

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBμV)
0.942921	30.13	46.00	15.87	L1	10	20.13
1.395171	30.84	46.00	15.16	L1	10	20.84
1.796250	28.67	46.00	17.33	L1	10	18.67
2.290671	35.28	46.00	10.72	L1	10	25.28
2.985750	32.61	46.00	13.39	L1	10	22.61
3.876750	36.03	46.00	9.97	L1	10	26.03

AC Input Port/ Voltage: 240V/60Hz

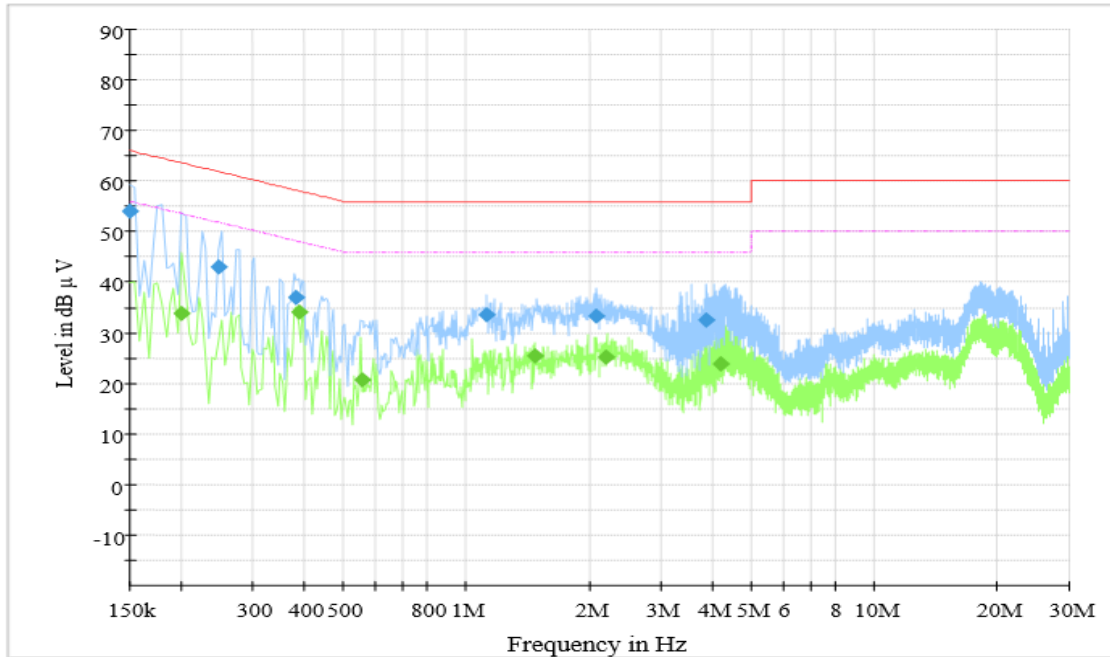


Figure A.2.12. Conducted Emission (Data Transfer)

Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.150000	53.92	66.00	12.08	L1	10	43.92
0.247843	42.92	61.83	18.91	L1	10	32.92
0.384771	36.91	58.18	21.26	L1	10	26.91
1.122257	33.51	56.00	22.49	L1	10	23.51
2.090250	33.22	56.00	22.78	L1	10	23.22
3.881014	32.52	56.00	23.48	L1	10	22.52

Final\_Result\_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.201171	33.83	53.56	19.73	N	10	23.83
0.389036	33.99	48.08	14.09	L1	10	23.99
0.555343	20.56	46.00	25.44	L1	10	10.56
1.471929	25.44	46.00	20.56	N	10	15.44
2.209414	25.18	46.00	20.82	N	10	15.18
4.188514	23.94	46.00	22.06	L1	10	13.94

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