



# TEST REPORT

## No.I22N01939-EMC

for

**FEITIAN Technologies Co., Ltd.**

**Android POS Terminal**

**Model Name: F310**

**With**

**Hardware Version: V1.01**

**Software Version: F310\_OS\_1.01.06.00**

**FCC ID: ZD3FTF310**

**Issued Date: 2022-11-09**

**Designation Number: CN1210**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

**Test Laboratory:**

**SAICT, Shenzhen Academy of Information and Communications Technology**

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

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

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



## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I22N01939-EMC	Rev.0	1st edition	2022-11-09

Note: the latest revision of the test report supersedes all previous version.



## **CONTENTS**

<b>1. SUMMARY OF TEST REPORT .....</b>	<b>4</b>
<b>1.1. TEST ITEMS.....</b>	<b>4</b>
<b>1.2. TEST STANDARDS .....</b>	<b>4</b>
<b>1.3. TEST RESULT .....</b>	<b>4</b>
<b>1.4. TESTING LOCATION .....</b>	<b>4</b>
<b>1.5. PROJECT DATA .....</b>	<b>4</b>
<b>1.6. SIGNATURE.....</b>	<b>4</b>
<b>2. CLIENT INFORMATION .....</b>	<b>5</b>
<b>2.1. APPLICANT INFORMATION.....</b>	<b>5</b>
<b>2.2. MANUFACTURER INFORMATION.....</b>	<b>5</b>
<b>3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE) .....</b>	<b>6</b>
<b>3.1. ABOUT EUT.....</b>	<b>6</b>
<b>3.2. INTERNAL IDENTIFICATION OF EUT .....</b>	<b>6</b>
<b>3.3. INTERNAL IDENTIFICATION OF AE.....</b>	<b>6</b>
<b>3.4. EUT SET-UPS.....</b>	<b>8</b>
<b>3.5. GENERAL DESCRIPTION .....</b>	<b>8</b>
<b>4. REFERENCE DOCUMENTS.....</b>	<b>9</b>
<b>4.1. REFERENCE DOCUMENTS FOR TESTING.....</b>	<b>9</b>
<b>5. LABORATORY ENVIRONMENT.....</b>	<b>10</b>
<b>6. SUMMARY OF TEST RESULTS.....</b>	<b>11</b>
<b>6.1. TESTING ENVIRONMENT .....</b>	<b>11</b>
<b>6.2. SUMMARY OF MEASUREMENT RESULTS.....</b>	<b>11</b>
<b>6.3. STATEMENT .....</b>	<b>11</b>
<b>7. MEASUREMENT UNCERTAINTY .....</b>	<b>12</b>
<b>9. TEST ACCESSORY UTILIZED .....</b>	<b>13</b>
<b>ANNEX A: MEASUREMENT RESULTS .....</b>	<b>14</b>
<b>A.1 RADIATED EMISSION (§15.109(A)) .....</b>	<b>14</b>
<b>A.2 CONDUCTED EMISSION (§15.107(A)) .....</b>	<b>41</b>



## 1. SUMMARY OF TEST REPORT

### 1.1. Test Items

Description	Android POS Terminal
Model Name	F310
Applicant's name	FEITIAN Technologies Co., Ltd.
Manufacturer's Name	FEITIAN Technologies Co., Ltd.

### 1.2. Test Standards

FCC Part 15, Subpart B (10-1-2021 Edition); ANSI C63.4-2014.

### 1.3. Test Result

Total test 2 items, pass 2 items. Please refer to "6.2 Test Results".

### 1.4. Testing Location

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

### 1.5. Project data

Testing Start Date: 2022-10-20

Testing End Date: 2022-10-30

### 1.6. Signature

---

Huang Kaiyang  
(Prepared this test report)

---

Huang Yuqing  
(Reviewed this test report)

---

Cao Junfei  
(Approved this test report)



## **2. CLIENT INFORMATION**

### **2.1. Applicant Information**

Company Name: FEITIAN Technologies Co., Ltd.  
Address: 17th Floor, Tower B, Huizhi Mansion, No.9 Xueqing Road, Haidian District, Beijing, China  
Contact: Zangfeiqiong  
Email: feiqiong@ftsafe.com  
Tel: 13811812336  
Fax: +86 10 62304477

### **2.2. Manufacturer Information**

Company Name: FEITIAN Technologies Co., Ltd.  
Address: 17th Floor, Tower B, Huizhi Mansion, No.9 Xueqing Road, Haidian District, Beijing, China  
Contact: Zangfeiqiong  
Email: feiqiong@ftsafe.com  
Tel: 13811812336  
Fax: +86 10 62304477



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

#### (AE)

#### 3.1. About EUT

Description	Android POS Terminal
Model Name	F310
FCC ID	ZD3FTF310
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
UT08aa	864255060100000	V1.01	F310_OS_1. 01.06.00	2022-09-24

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

#### 3.3. Internal Identification of AE

AE ID*	Description
AE1	Battery
AE2	Charger
AE3	USB Cable

##### AE1-1

Model	25001
Manufacturer	Dongguan HongDe Battery Co.,Ltd
Capacity	3000mAh
Nominal Voltage	3.8 V

##### AE1-2

Model	F310
Manufacturer	Shenzhen Aerospace Electronic Co.,Ltd.
Capacity	3000mAh
Nominal Voltage	3.8 V

##### AE2-1

Model	TPA-46050200UU
Manufacturer	Shenzhen Tianyin Electronics Co.,Ltd

##### AE2-2

Model	TPA-147C050100UU01
Manufacturer	Shenzhen Tianyin Electronics Co.,Ltd

##### AE3-1

Model	USB A-C L=1000MM 1QA035_F310_RO
-------	---------------------------------



No.I22N01939-EMC

Manufacturer SiChuan RTT Electronic Technology .,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	
Set.2	EUT+AE1-1+AE2-2+AE3-1	
Set.3	EUT+AE1-1+AE3-1+PC	

**3.5. General Description**

The Equipment Under Test (EUT) is a model of Android POS Terminal with internal antenna.

It supports GSM 850/900/1800/1900MHz, WCDMA Bands 1/2/4/5/8, LTE Bands 1/2/3/4/5/7/8/12/17/19/20/21/25/26/28/38/39/40/41/66.

It has MP3, Camera, USB memory, NFC,Bluetooth, Wi-Fi and GNSS functions.

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

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	(10-1-2021 Edition)
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

## 5. LABORATORY ENVIRONMENT

**Anechoic chamber (FACT3-2.0)** did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3 m distance, from 30 to 1000 MHz
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

**Shielded room** did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω

## 6. SUMMARY OF TEST RESULTS

### 6.1. Testing Environment

Normal Temperature: 15~35°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)
	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	2025.04.17	3 years
6.	LISN	ENV216	102067	R&S	2023.07.14	1 year
7.	Anechoic 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.

**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, LTE Band 26.

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

All equipment is placed on the test table top and arranged in a typical configuration in accordance

with ANSI C63.4-2014 and manipulated to obtain worst case emissions. For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

**A.1.3 Measurement Limit**

Limit from Part 15.109(a)

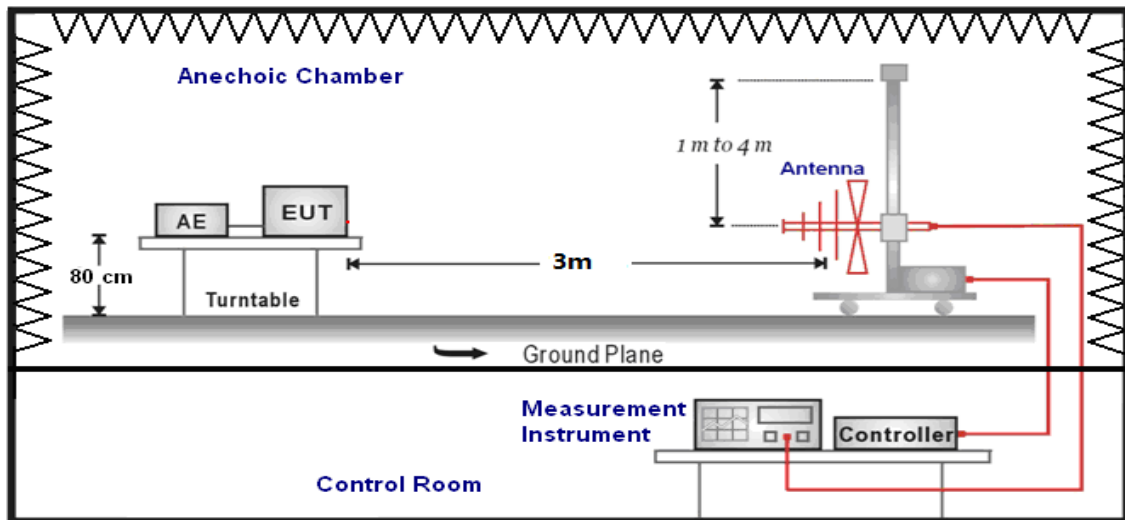
Frequency range (MHz)	Field strength limit ( $\mu\text{V/m}$ )		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

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

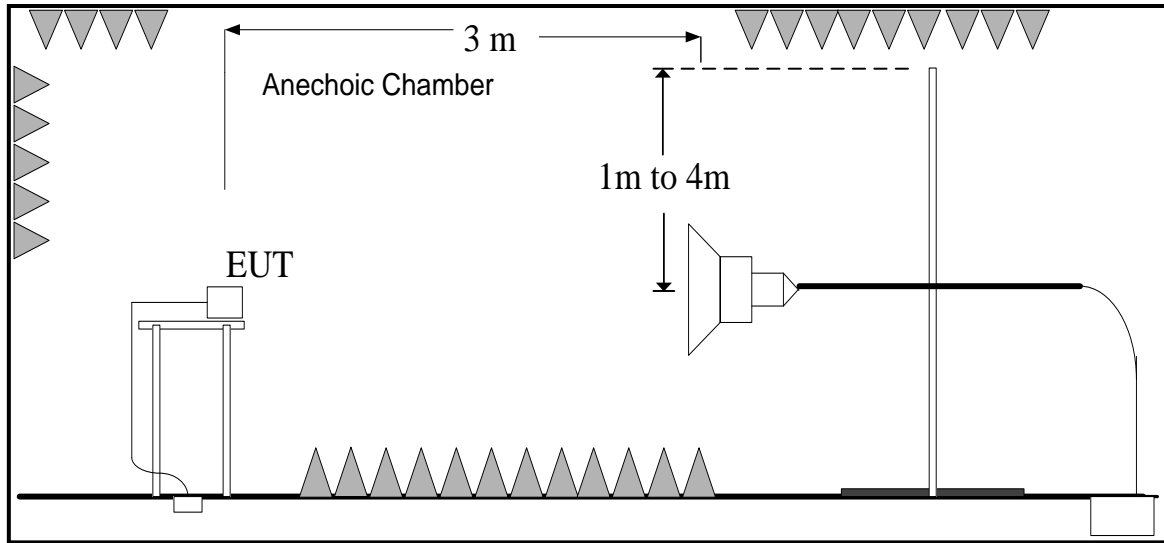
**A.1.4 Test Condition**

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
		UT08aa/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
			UT08aa/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
		UT08aa/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
			UT08aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.4.	P

## GSM receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT08aa/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
			UT08aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.6.	P

## WCDMA receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT08aa/Set.1	
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
			UT08aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.8.	P

## WCDMA receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT08aa/Set.2	
30-88	40.00	See Figure A.1.9.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
			UT08aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.10.	P

## LTE receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT08aa/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
			UT08aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.12.	P

## LTE receiver Band 12

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT08aa/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
			UT08aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.14.	P

LTE receiver Band 17

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT08aa/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
			UT08aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.16.	P
18000 to 26500	63.51	83.51	See Figure A.1.17.	
26500 to 40000	63.51	83.51	See Figure A.1.18.	

LTE receiver Band 26

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT08aa/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
			UT08aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.20.	P
18000 to 26500	63.51	83.51	See Figure A.1.21.	
26500 to 40000	63.51	83.51	See Figure A.1.22.	



Data Transfer: PC TO TF Card

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT08aa/Set.5	
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
			UT08aa/Set.5	
1000 to 18000	54.00	74.00	See Figure A.1.24.	P

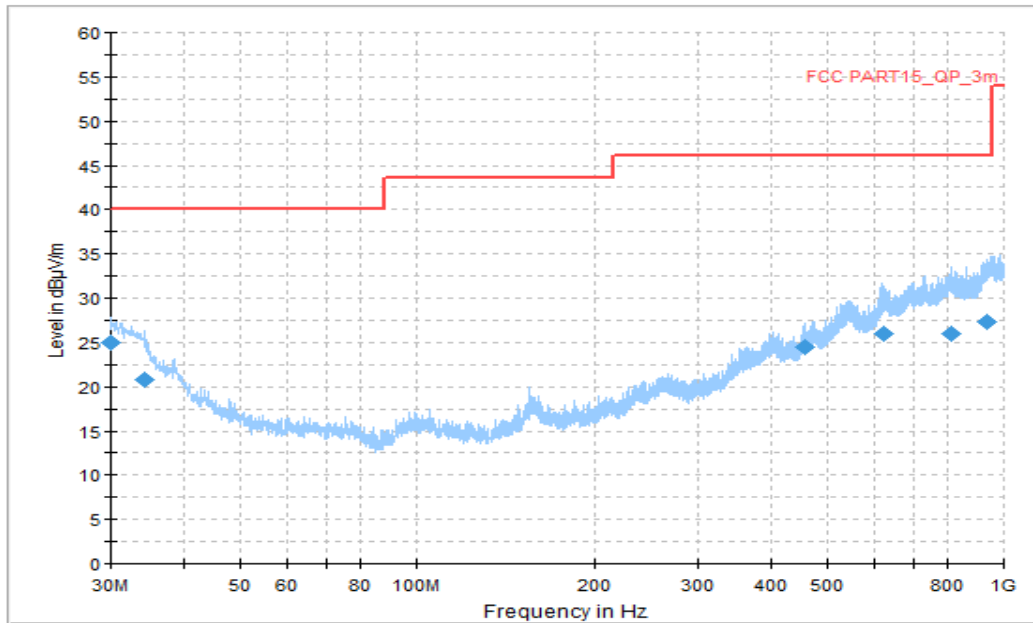


Figure A.1.1. Radiated Emission (Camera, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.107778	24.97	40.00	15.03	V	-13	37.97
34.365000	20.74	40.00	19.26	V	-15	35.74
456.638333	24.41	46.02	21.61	V	-8	32.41
624.663889	25.91	46.02	20.11	V	-3	28.91
812.736111	26.02	46.02	20.00	V	-1	27.02
933.177778	27.28	46.02	18.74	H	1	26.28

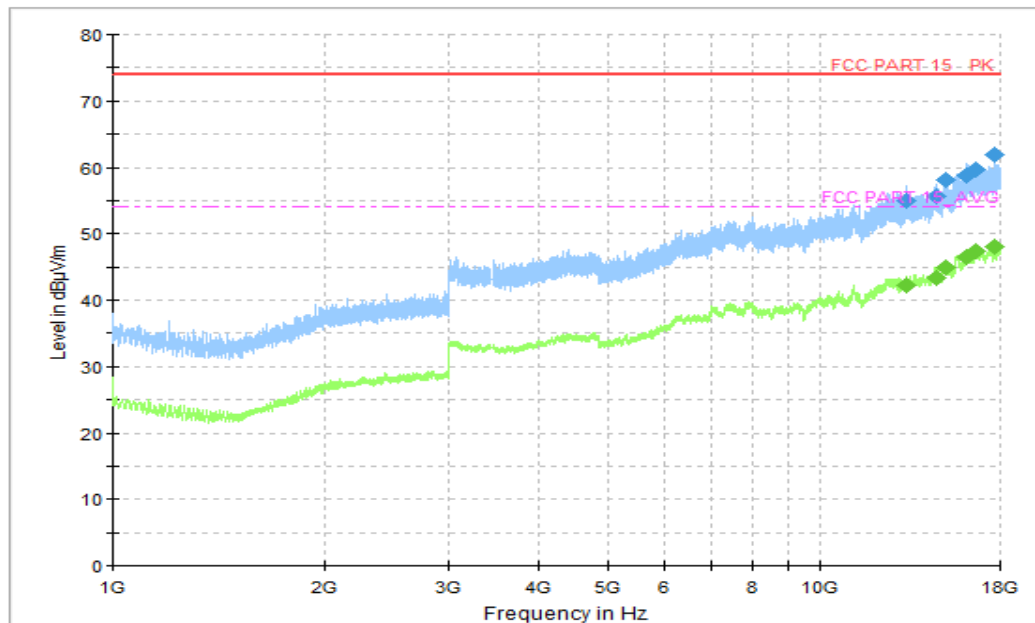


Figure A.1.2. Radiated Emission (Camera, 1GHz to 18GHz)

Final\_Results\_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
13277.000000	55.03	74.00	18.97	H	18	37.03
14601.750000	55.67	74.00	18.33	H	19	36.67
15103.750000	58.13	74.00	15.87	V	20	38.13
16157.250000	58.70	74.00	15.30	V	22	36.70
16610.750000	59.70	74.00	14.30	V	23	36.7
17702.250000	61.86	74.00	12.14	H	24	37.86

Final\_Results\_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13277.000000	42.32	54.00	11.68	H	18	24.32
14601.750000	43.45	54.00	10.55	H	19	24.45
15103.750000	44.83	54.00	9.17	V	20	24.83
16157.250000	46.53	54.00	7.47	V	22	24.53
16610.750000	47.35	54.00	6.65	V	23	24.35
17702.250000	47.97	54.00	6.03	H	24	23.97

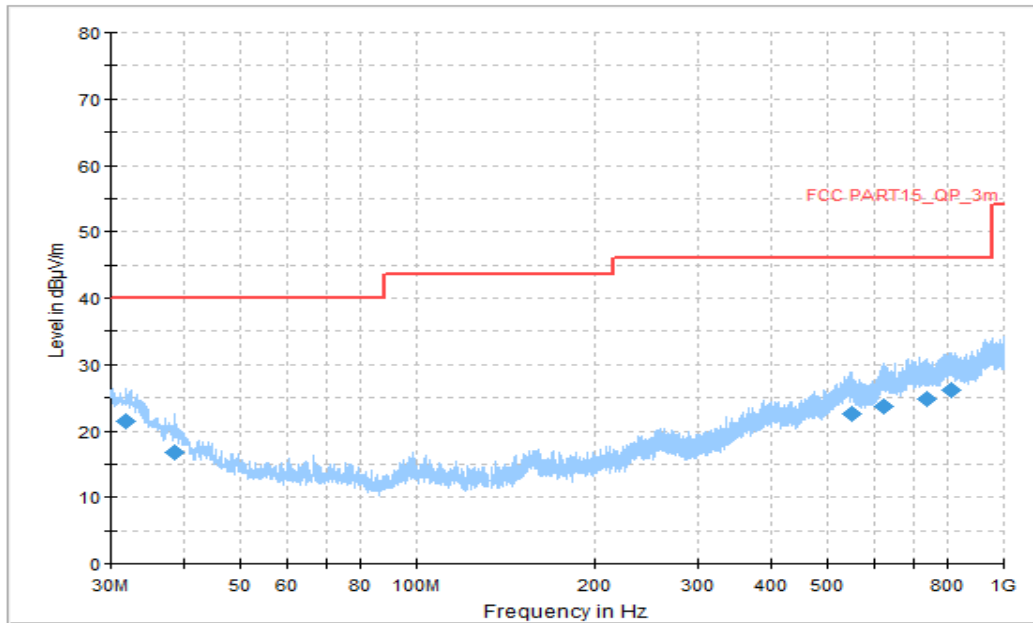


Figure A.1.3. Radiated Emission (Video Player, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
31.832222	21.56	40.00	18.44	V	-14	35.56
38.676111	16.70	40.00	23.30	V	-18	34.7
548.033889	22.57	46.02	23.45	H	-4	26.57
621.268889	23.79	46.02	22.23	V	-3	26.79
738.100000	24.84	46.02	21.18	H	-2	26.84
811.065556	26.11	46.02	19.91	H	-1	27.11

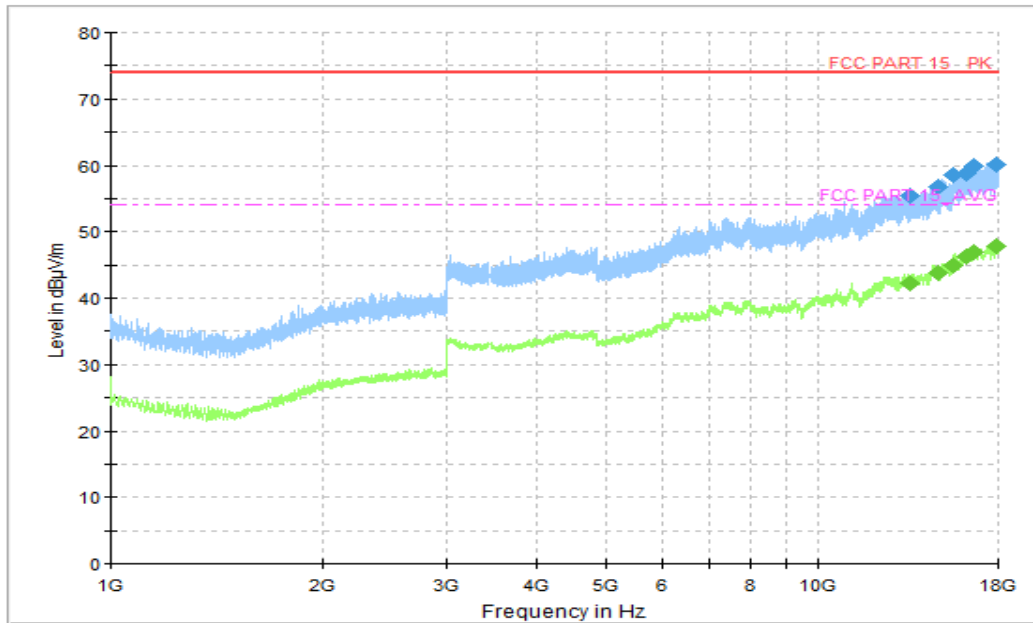


Figure A.1.4. Radiated Emission (Video Player, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13481.250000	55.32	74.00	18.68	V	18	37.32
14755.000000	56.79	74.00	17.21	V	19	37.79
15568.750000	58.62	74.00	15.38	H	20	38.62
16259.750000	58.79	74.00	15.21	V	22	36.79
16672.750000	59.85	74.00	14.15	V	22	37.85
17894.250000	60.01	74.00	13.99	V	25	35.01

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13481.250000	42.26	54.00	11.74	V	18	24.26
14755.000000	43.78	54.00	10.22	V	19	24.78
15568.750000	45.00	54.00	9.00	H	20	25.00
16259.750000	46.29	54.00	7.71	V	22	24.29
16672.750000	46.91	54.00	7.09	V	22	24.91
17894.250000	47.71	54.00	6.29	V	25	22.71



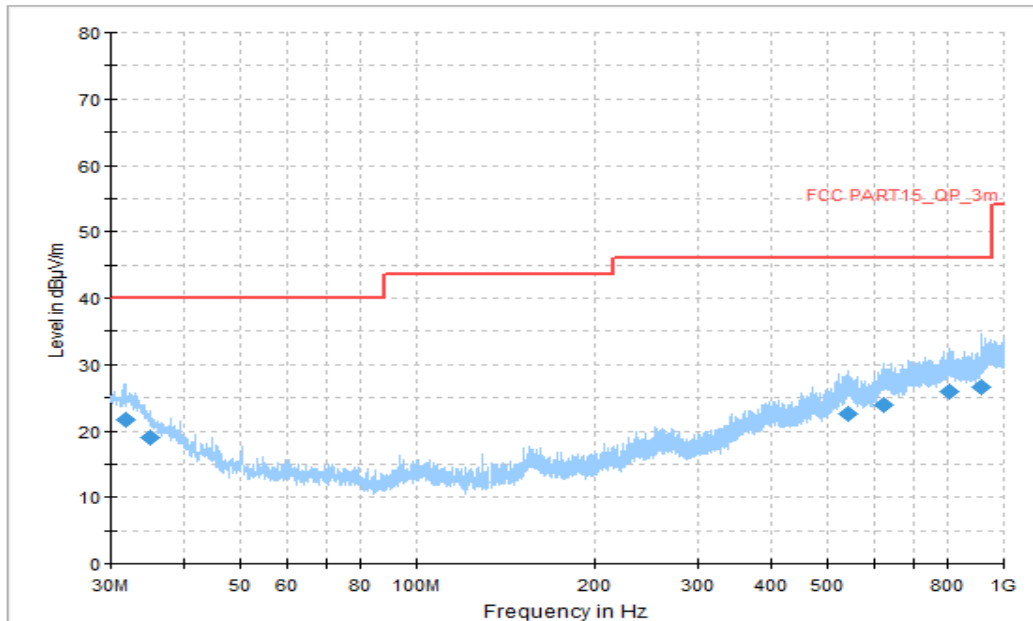


Figure A.1.5. Radiated Emission (GSM receiver 850MHz, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
31.724444	21.59	40.00	18.41	H	-14	35.59
35.011667	18.98	40.00	21.02	V	-16	34.98
540.273889	22.67	46.02	23.35	V	-4	26.67
625.202778	23.99	46.02	22.03	H	-3	26.99
805.515000	26.00	46.02	20.02	V	-1	27
915.771667	26.51	46.02	19.51	V	0	26.51

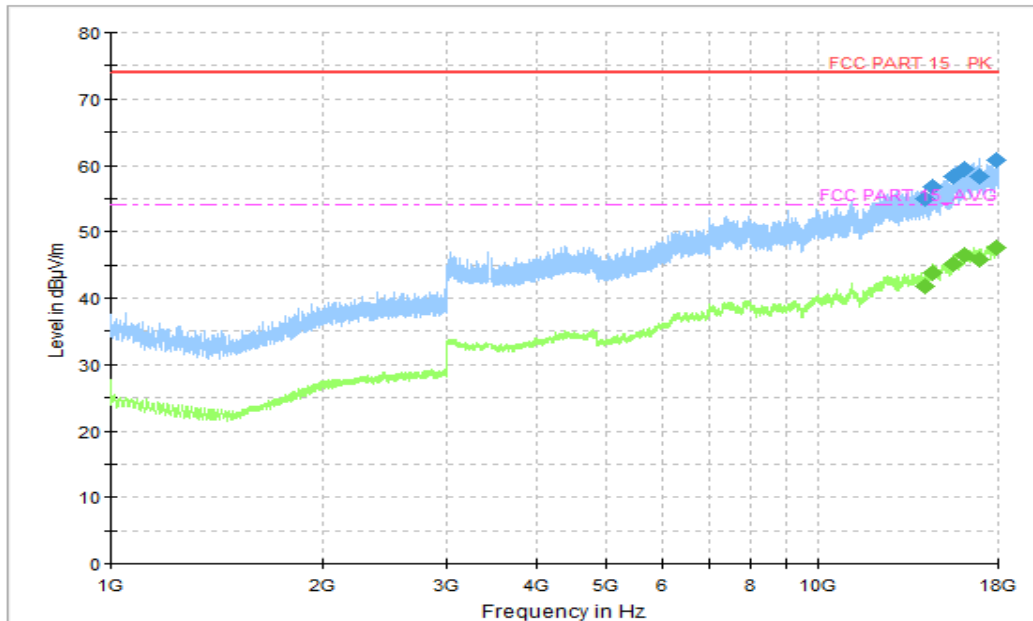


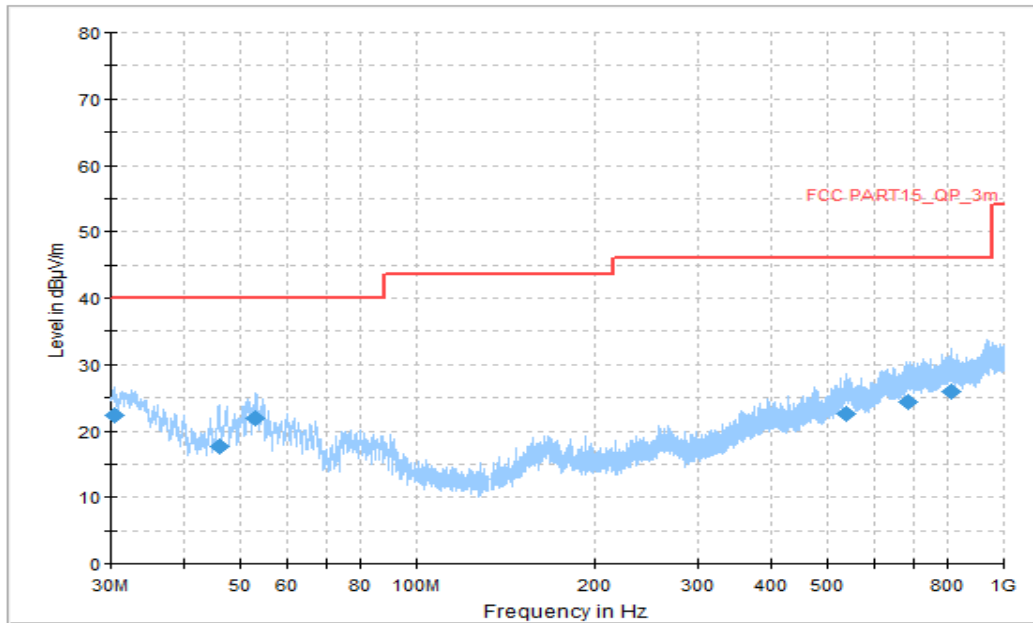
Figure A.1.6. Radiated Emission (GSM receiver 850MHz, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
14143.250000	54.96	74.00	19.04	H	18	36.96
14566.250000	56.77	74.00	17.23	V	19	37.77
15575.250000	58.28	74.00	15.72	V	20	38.28
16166.000000	59.47	74.00	14.53	H	22	37.47
16906.000000	58.25	74.00	15.75	H	22	36.25
17909.500000	60.75	74.00	13.25	H	25	35.75

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
14143.250000	41.74	54.00	12.26	H	18	23.74
14566.250000	43.85	54.00	10.15	V	19	24.85
15575.250000	45.07	54.00	8.93	V	20	25.07
16166.000000	46.43	54.00	7.57	H	22	24.43
16906.000000	45.87	54.00	8.13	H	22	23.87
17909.500000	47.52	54.00	6.48	H	25	22.52



**Figure A.1.7. 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)
30.538889	22.34	40.00	17.66	V	-13	35.34
45.897222	17.55	40.00	22.45	V	-21	38.55
53.010556	21.93	40.00	18.07	V	-22	43.93
536.878889	22.67	46.02	23.35	H	-4	26.67
684.265000	24.37	46.02	21.65	H	-2	26.37
812.466667	26.01	46.02	20.01	V	-1	27.01

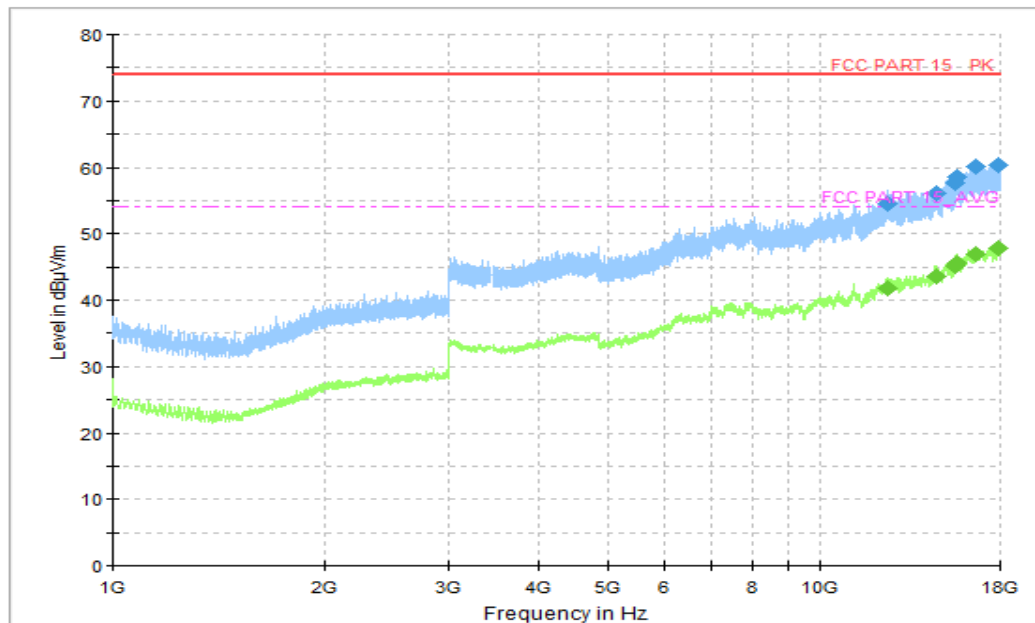


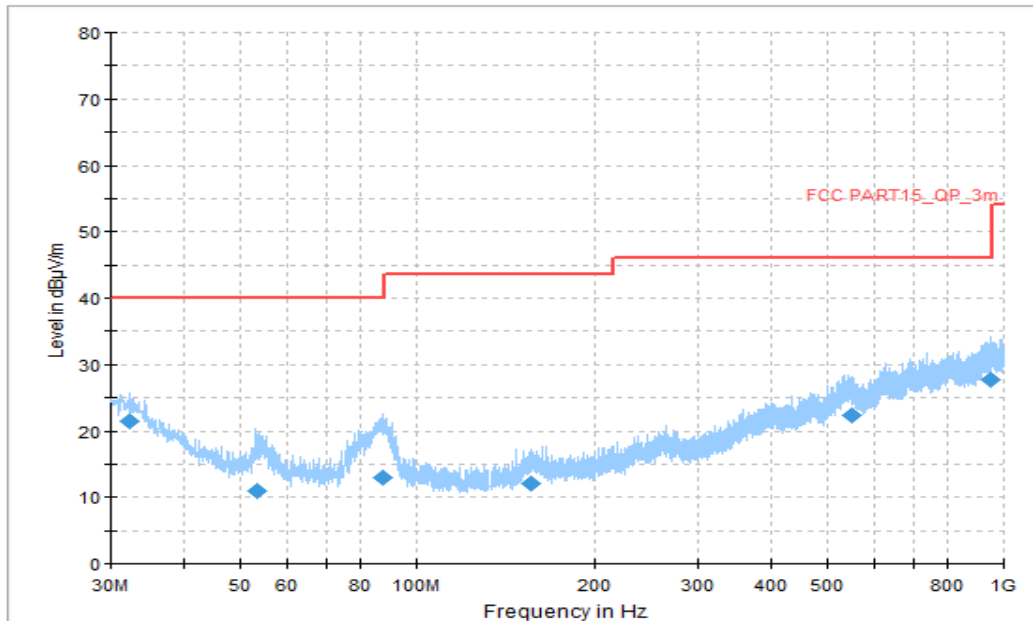
Figure A.1.8. Radiated Emission (WCDMA receiver Band 5, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12443.000000	54.48	74.00	19.52	V	18	36.48
14586.500000	56.04	74.00	17.96	V	19	37.04
15572.500000	57.63	74.00	16.37	V	20	37.63
15617.000000	58.57	74.00	15.43	H	20	38.57
16608.750000	60.11	74.00	13.89	V	23	37.11
17902.250000	60.28	74.00	13.72	H	25	35.28

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
12443.000000	41.84	54.00	12.16	V	18	23.84
14586.500000	43.66	54.00	10.34	V	19	24.66
15572.500000	45.11	54.00	8.89	V	20	25.11
15617.000000	45.67	54.00	8.33	H	20	25.67
16608.750000	47.00	54.00	7.00	V	23	24
17902.250000	47.75	54.00	6.25	H	25	22.75



**Figure A.1.9. 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)
32.263333	21.51	40.00	18.49	V	-14	35.51
53.172222	11.03	40.00	28.97	V	-22	33.03
87.391667	12.99	40.00	27.01	V	-22	34.99
155.722778	12.03	43.52	31.49	V	-17	29.03
550.782222	22.33	46.02	23.69	V	-5	27.33
946.703889	27.82	46.02	18.20	V	1	26.82

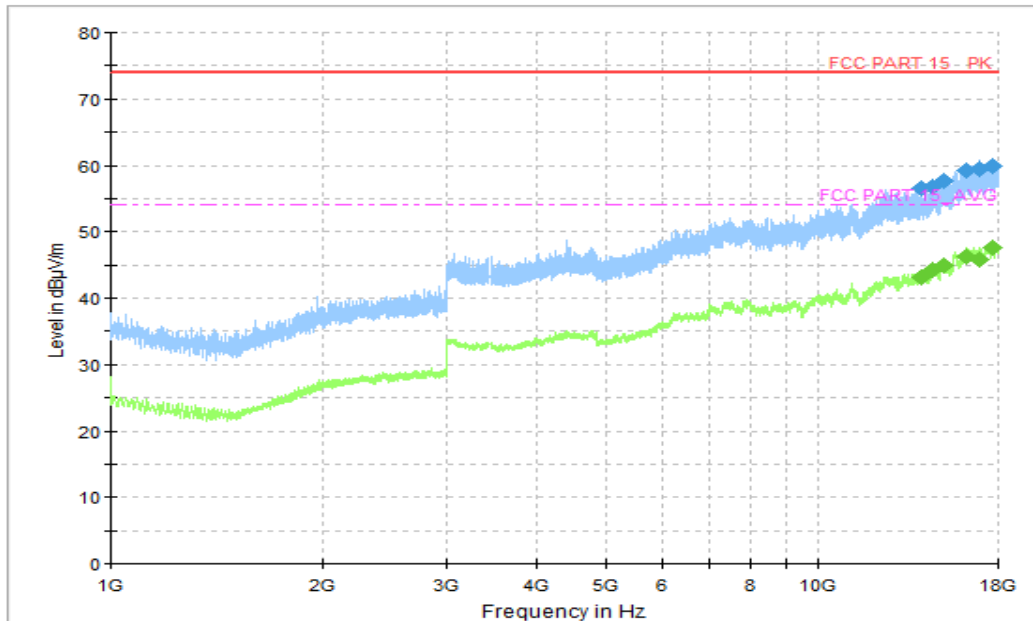


Figure A.1.10. Radiated Emission (WCDMA receiver Band 5, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13972.250000	56.44	74.00	17.56	V	18	38.44
14539.750000	56.68	74.00	17.32	V	19	37.68
15045.750000	57.56	74.00	16.44	V	19	38.56
16258.250000	59.25	74.00	14.75	H	22	37.25
16891.750000	59.43	74.00	14.57	V	22	37.43
17714.250000	59.99	74.00	14.01	H	24	35.99

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13972.250000	43.03	54.00	10.97	V	18	25.03
14539.750000	44.19	54.00	9.81	V	19	25.19
15045.750000	44.91	54.00	9.09	V	19	25.91
16258.250000	46.29	54.00	7.71	H	22	24.29
16891.750000	45.91	54.00	8.09	V	22	23.91
17714.250000	47.59	54.00	6.41	H	24	23.59

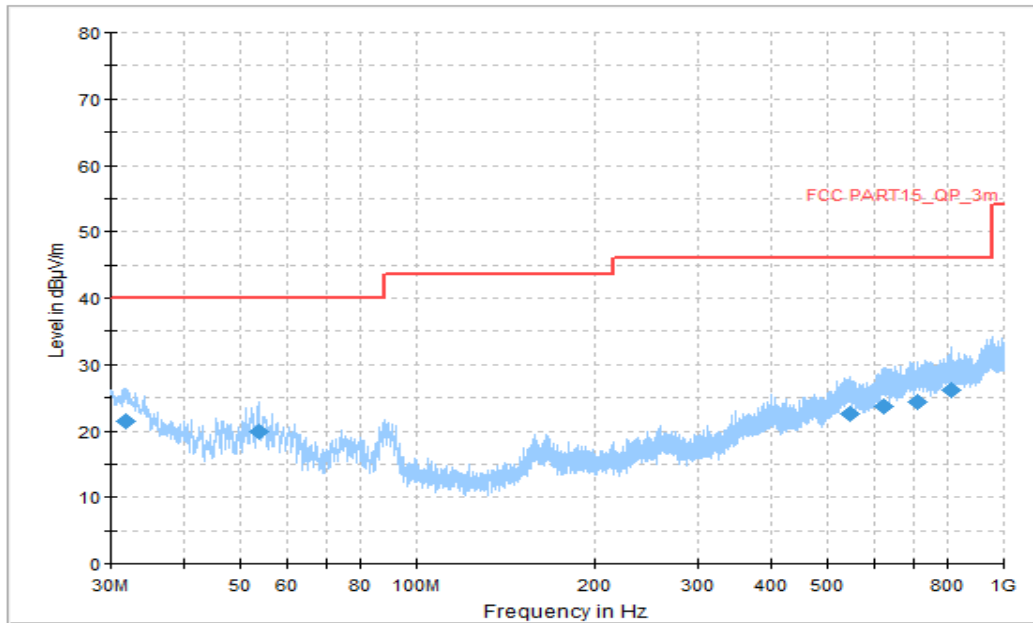


Figure A.1.11. Radiated Emission (LTE receiver Band 5, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
31.940000	21.52	40.00	18.48	H	-14	35.52
53.818889	19.83	40.00	20.17	V	-22	41.83
546.848333	22.50	46.02	23.52	V	-4	26.50
624.232778	23.79	46.02	22.23	H	-3	26.79
710.670556	24.28	46.02	21.74	H	-3	27.28
811.658333	26.06	46.02	19.96	V	-1	27.06

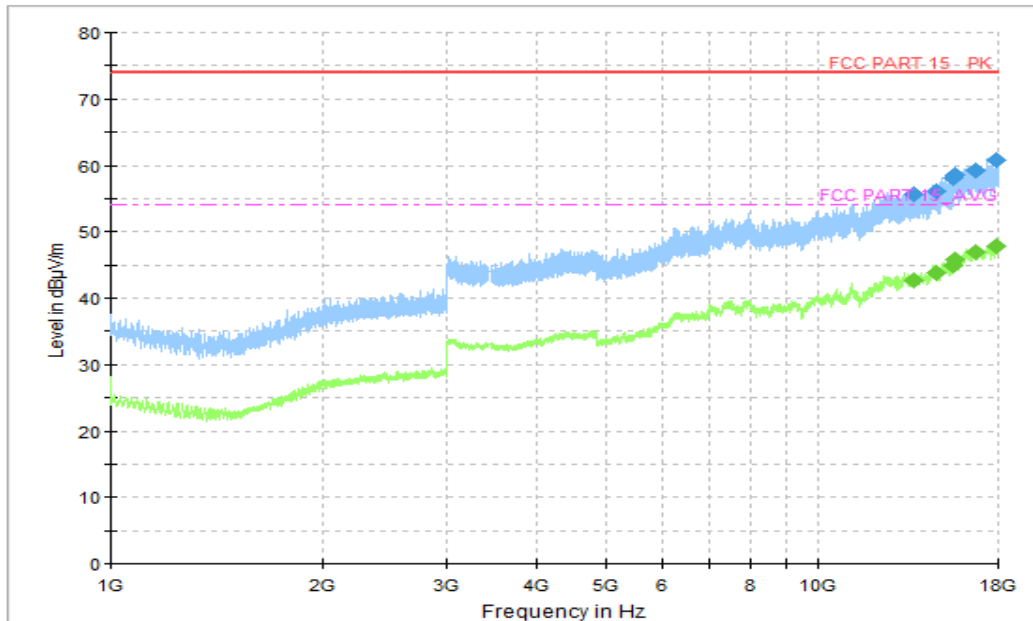


Figure A.1.12. Radiated Emission (LTE receiver Band 5, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13660.000000	55.69	74.00	18.31	H	18	37.69
14666.500000	55.98	74.00	18.02	H	19	36.98
15562.250000	58.18	74.00	15.82	V	20	38.18
15633.500000	58.49	74.00	15.51	V	21	37.49
16681.750000	59.27	74.00	14.73	H	22	37.27
17888.750000	60.72	74.00	13.28	H	25	35.72

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
13660.000000	42.57	54.00	11.43	H	18	24.57
14666.500000	43.76	54.00	10.24	H	19	24.76
15562.250000	44.99	54.00	9.01	V	20	24.99
15633.500000	45.83	54.00	8.17	V	21	24.83
16681.750000	46.94	54.00	7.06	H	22	24.94
17888.750000	47.78	54.00	6.22	H	25	22.78



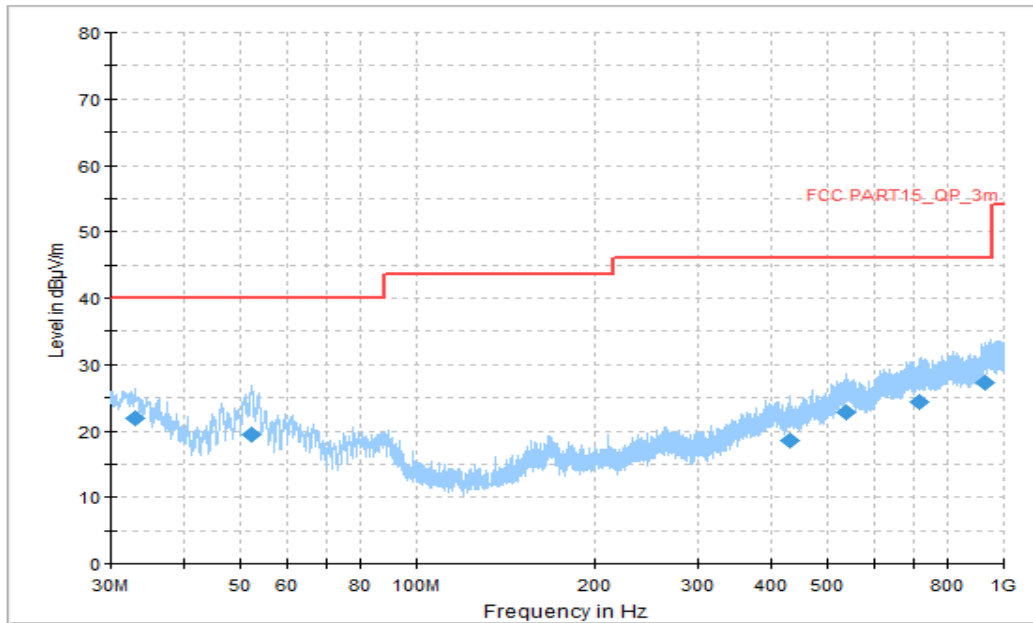


Figure A.1.13. Radiated Emission (LTE receiver Band 12, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
33.017778	21.84	40.00	18.16	V	-14	35.84
52.094444	19.51	40.00	20.49	V	-22	41.51
429.747778	18.64	46.02	27.38	V	-9	27.64
536.825000	22.72	46.02	23.30	V	-4	26.72
715.520556	24.40	46.02	21.62	H	-2	26.4
926.495556	27.19	46.02	18.83	V	1	26.19

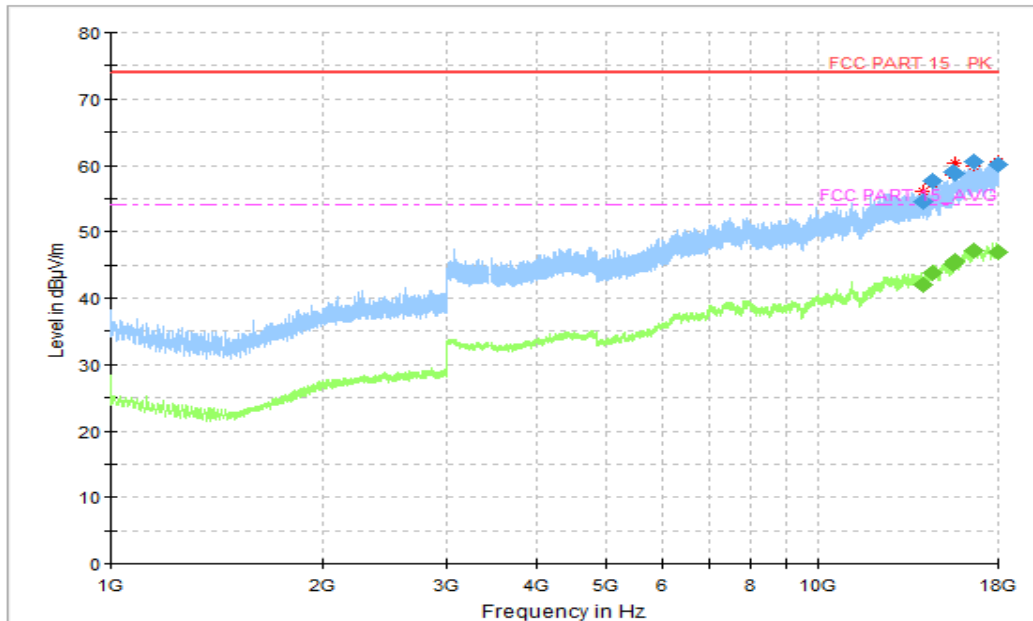


Figure A.1.14. Radiated Emission (LTE receiver Band 12, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
14056.750000	54.55	74.00	19.45	H	18	36.55
14568.500000	57.58	74.00	16.42	H	19	38.58
15577.000000	58.95	74.00	15.05	H	20	38.95
15613.750000	58.86	74.00	15.14	V	20	38.86
16627.250000	60.55	74.00	13.45	H	23	37.55
17995.750000	60.07	74.00	13.93	H	24	36.07

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
14056.750000	41.92	54.00	12.08	H	18	23.92
14568.500000	43.82	54.00	10.18	H	19	24.82
15577.000000	45.21	54.00	8.79	H	20	25.21
15613.750000	45.57	54.00	8.43	V	20	25.57
16627.250000	47.18	54.00	6.82	H	23	24.18
17995.750000	46.94	54.00	7.06	H	24	22.94

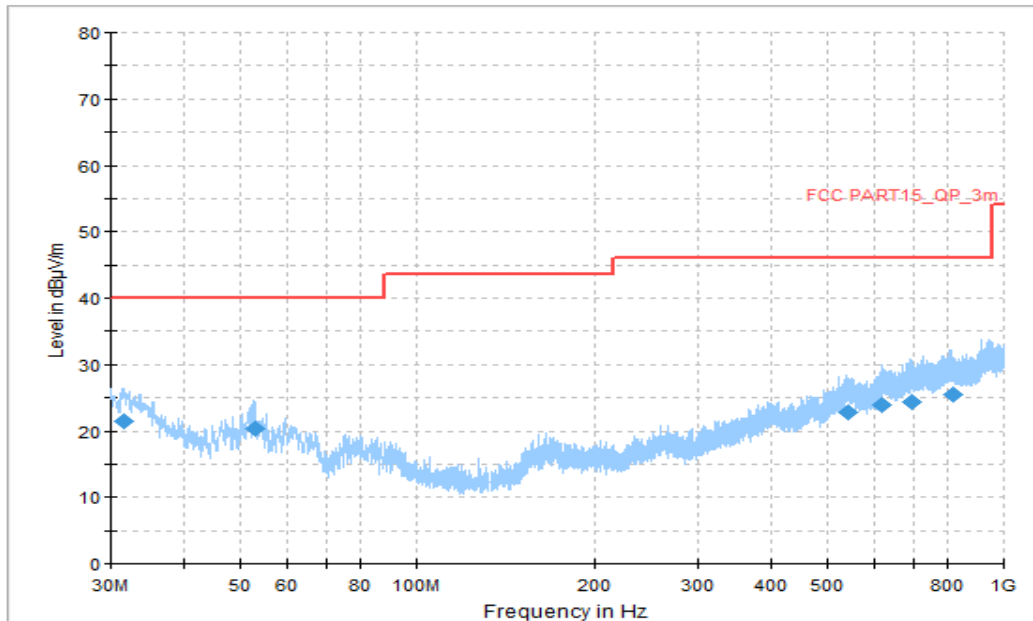


Figure A.1.15. Radiated Emission (LTE receiver Band 17, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
31.508889	21.53	40.00	18.47	H	-13	34.53
52.795000	20.42	40.00	19.58	V	-22	42.42
541.243889	22.74	46.02	23.28	H	-4	26.74
620.460556	23.82	46.02	22.20	V	-3	26.82
698.168333	24.31	46.02	21.71	H	-2	26.31
821.897222	25.53	46.02	20.49	V	-1	26.53

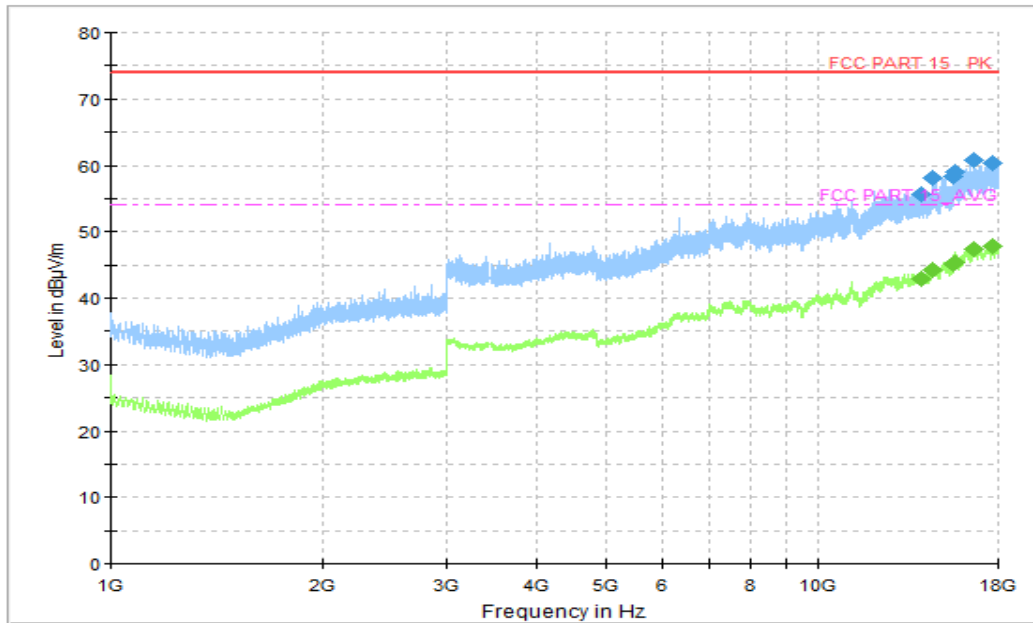


Figure A.1.16. Radiated Emission (LTE receiver Band 17, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
14012.750000	55.63	74.00	18.37	H	18	37.63
14539.000000	58.13	74.00	15.87	V	19	39.13
15576.250000	58.30	74.00	15.70	V	20	38.30
15596.500000	59.02	74.00	14.98	V	20	39.02
16596.000000	60.74	74.00	13.26	H	23	37.74
17706.500000	60.36	74.00	13.64	V	24	36.36

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
14012.750000	42.85	54.00	11.15	H	18	24.85
14539.000000	44.21	54.00	9.79	V	19	25.21
15576.250000	45.18	54.00	8.82	V	20	25.18
15596.500000	45.44	54.00	8.56	V	20	25.44
16596.000000	47.37	54.00	6.63	H	23	24.37
17706.500000	47.88	54.00	6.12	V	24	23.88

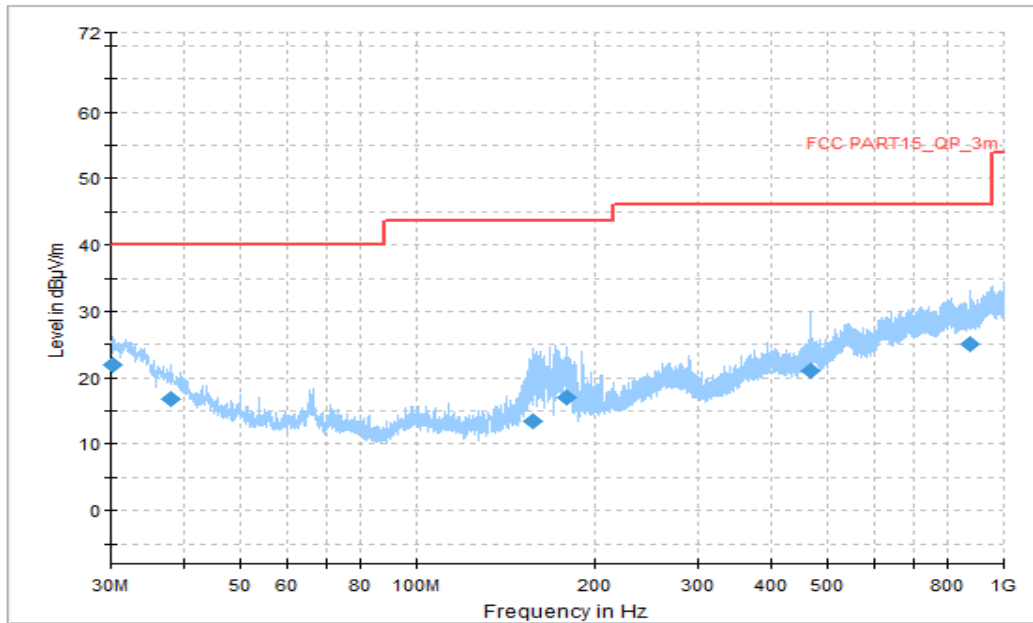


Figure A.1.17. Radiated Emission (LTE receiver Band 26, 30MHz to 1GHz)

Final\_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.161667	21.92	40.00	18.08	V	-13	34.92
38.083333	16.83	40.00	23.17	H	-18	34.83
156.207778	13.52	43.52	30.00	H	-17	30.52
179.110556	16.96	43.52	26.56	H	-18	34.96
466.446111	21.14	46.02	24.88	V	-7	28.14
876.109444	25.07	46.02	20.95	V	-1	26.07

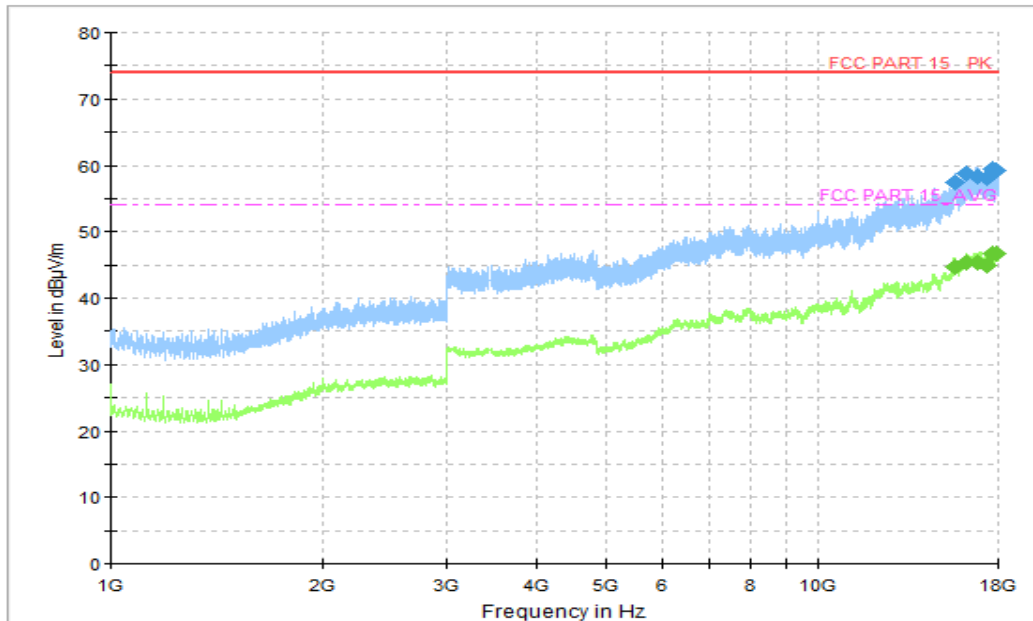


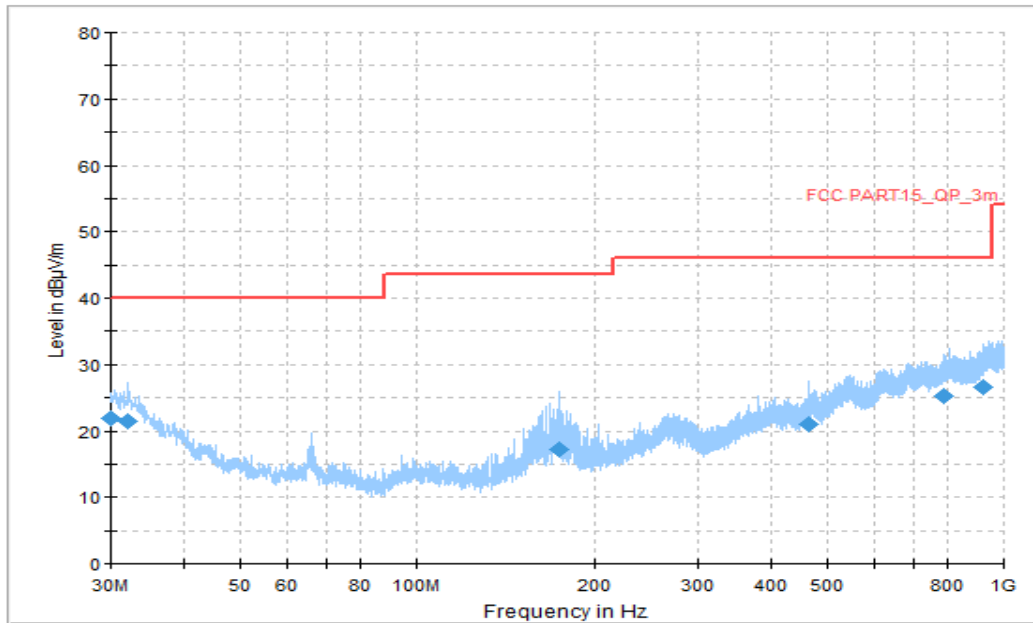
Figure A.1.18. Radiated Emission (LTE receiver Band 26, 1GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
15606.750000	57.42	74.00	16.58	H	20	37.42
16258.000000	58.72	74.00	15.28	H	21	37.72
16850.250000	58.28	74.00	15.72	H	22	36.28
17311.250000	57.99	74.00	16.01	V	22	35.99
17687.750000	59.40	74.00	14.60	V	23	36.4
17890.250000	59.22	74.00	14.78	V	24	35.22

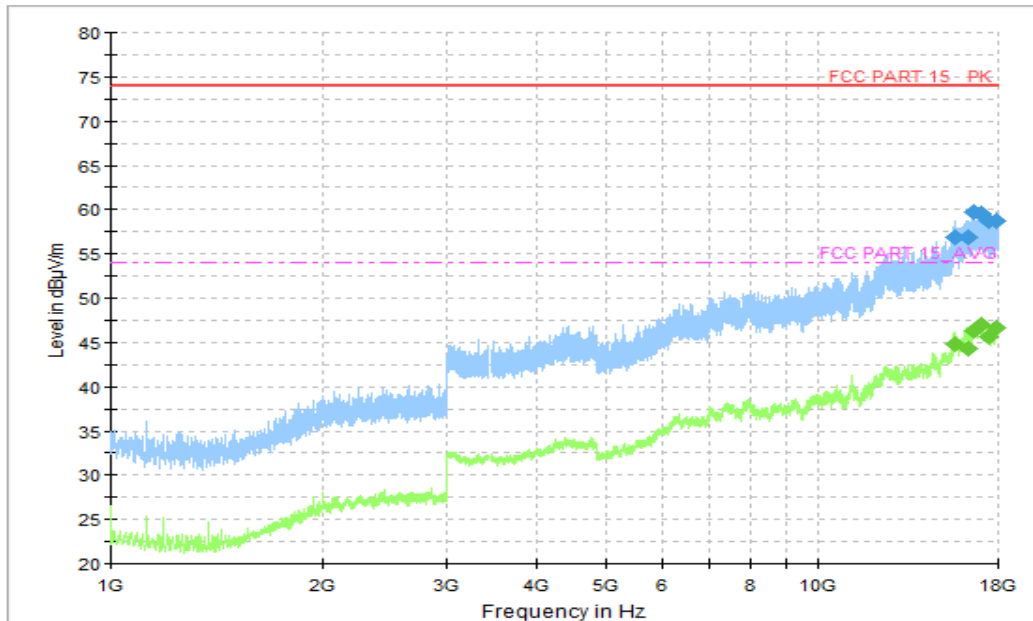
**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
15606.750000	44.78	54.00	9.22	H	20	24.78
16258.000000	45.38	54.00	8.62	H	21	24.38
16850.250000	45.26	54.00	8.74	H	22	23.26
17311.250000	44.98	54.00	9.02	V	22	22.98
17687.750000	46.60	54.00	7.40	V	23	23.6
17890.250000	46.69	54.00	7.31	V	24	22.69



**Figure A.1.19. 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)
30.053889	21.97	40.00	18.03	H	-13	34.97
32.155556	21.51	40.00	18.49	H	-14	35.51
174.152778	17.19	43.52	26.33	V	-18	35.19
464.883333	21.02	46.02	25.00	V	-7	28.02
791.988889	25.23	46.02	20.79	H	-1	26.23
923.100556	26.66	46.02	19.36	V	1	25.66



**Figure A.1.20. 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)
15595.500000	56.93	74.00	17.07	V	20	36.93
16319.500000	56.91	74.00	17.09	H	21	35.91
16572.000000	59.64	74.00	14.36	H	22	37.64
17010.500000	59.56	74.00	14.44	H	23	36.56
17456.500000	58.65	74.00	15.35	H	22	36.65
17916.750000	58.76	74.00	15.24	V	24	34.76

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
15595.500000	44.73	54.00	9.27	V	20	24.73
16319.500000	44.25	54.00	9.75	H	21	23.25
16572.000000	46.23	54.00	7.77	H	22	24.23
17010.500000	47.02	54.00	6.98	H	23	24.02
17456.500000	45.56	54.00	8.44	H	22	23.56
17916.750000	46.57	54.00	7.43	V	24	22.57





**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.

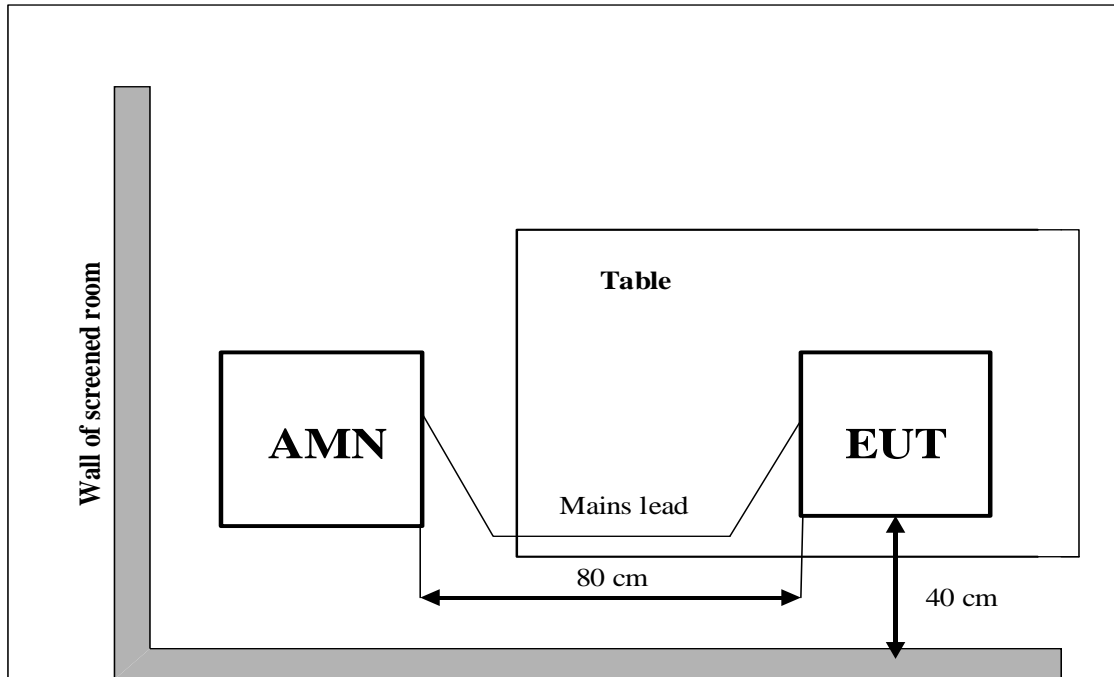
**Data Transfer:** The model of the PC is Lenovo ThinkPad T480, and the serial number of the PC is PF-13LW0C. The EUT is connected to a PC for transmitting data. The software is used to let the PC keep on copying data to EUT or TF Card, reading and erasing the data after copy action was finished.

**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 (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
			UT08aa/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
			UT08aa/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
			UT08aa/Set.2	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.3.	P
0.5 to 5	56	46		
5 to 30	60	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Data Transfer

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
			UT08aa/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: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
			UT08aa/Set.1	
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
			UT08aa/Set.2	
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.

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
			UT08aa/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.



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
			UT08aa/Set.2	
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.

AC Input Port/ Voltage: 120V/60Hz

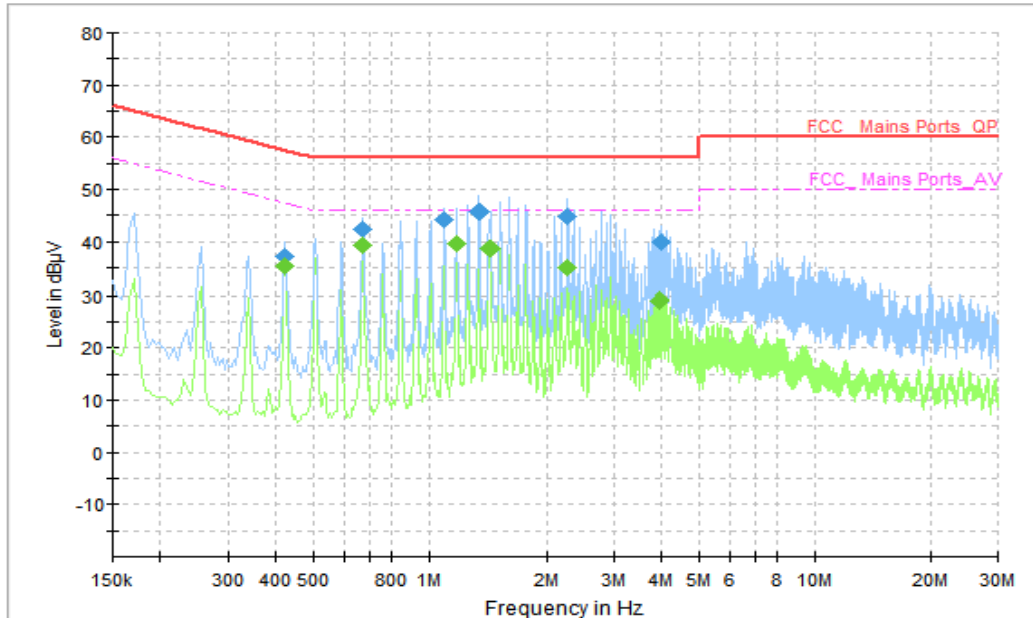


Figure A.2.1. Conducted Emission (Camera)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.422000	37.30	57.41	20.11	L1	10	27.30
0.674000	42.31	56.00	13.69	L1	10	32.31
1.094000	44.11	56.00	11.89	L1	10	34.11
1.350000	45.87	56.00	10.13	L1	10	35.87
2.274000	44.85	56.00	11.15	L1	10	34.85
3.962000	39.97	56.00	16.03	L1	10	29.97

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.422000	35.24	47.41	12.16	N	10	25.24
0.674000	39.29	46.00	6.71	N	10	29.29
1.178000	39.55	46.00	6.45	N	10	29.55
1.434000	38.77	46.00	7.23	N	10	28.77
2.274000	35.14	46.00	10.86	N	10	25.14
3.954000	28.90	46.00	17.10	N	10	18.90

AC Input Port/ Voltage: 120V/60Hz

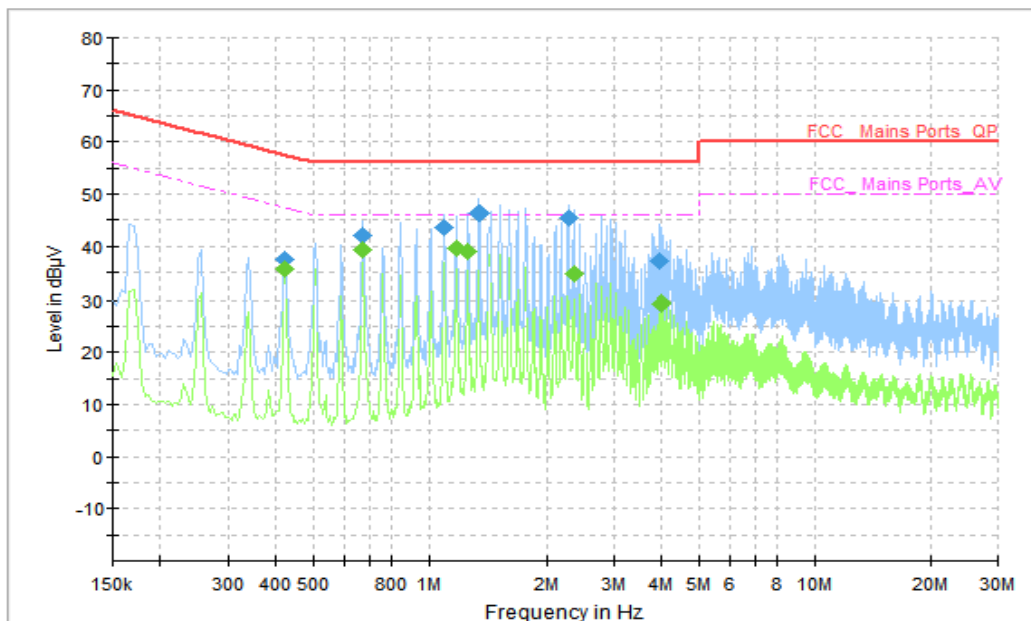


Figure A.2.2. Conducted Emission (Video Player)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.422000	37.60	57.41	19.80	N	10	27.60
0.674000	42.08	56.00	13.92	L1	10	32.08
1.094000	43.61	56.00	12.39	L1	10	33.61
1.350000	46.46	56.00	9.54	L1	10	36.46
2.278000	45.30	56.00	10.70	L1	10	35.3
3.958000	37.13	56.00	18.87	L1	10	27.13

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.422000	35.70	47.41	11.71	N	10	25.70
0.674000	39.30	46.00	6.70	N	10	29.3
1.178000	39.64	46.00	6.36	N	10	29.64
1.262000	39.16	46.00	6.84	N	10	29.16
2.362000	34.70	46.00	11.30	N	10	24.7
3.962000	29.15	46.00	16.85	N	10	19.15

AC Input Port/ Voltage: 120V/60Hz

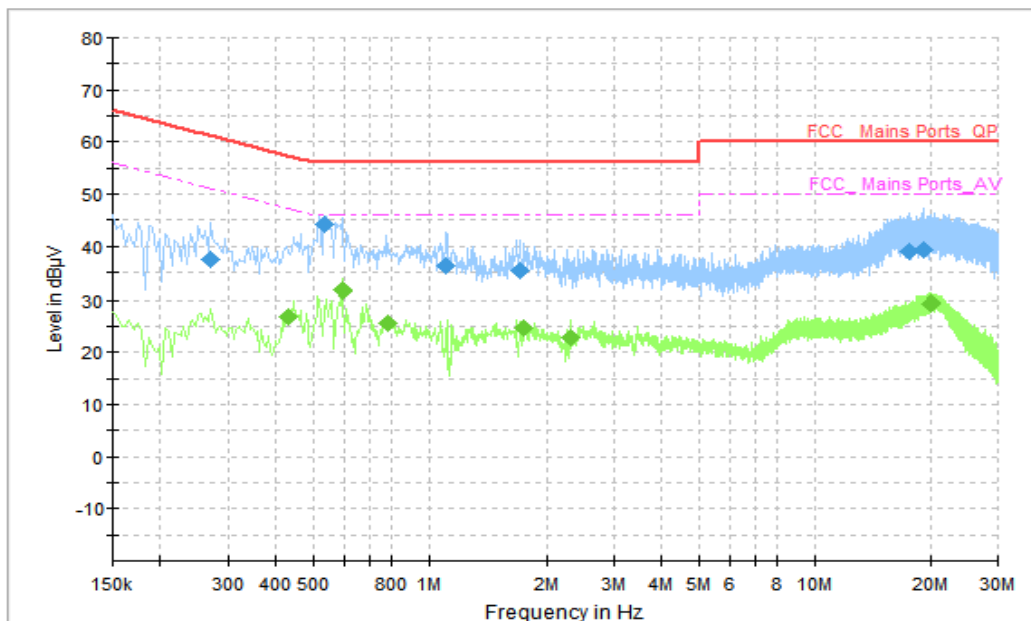


Figure A.2.3. Conducted Emission (Video Player)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.270000	37.49	61.12	23.62	N	10	27.49
0.534000	44.33	56.00	11.67	N	10	34.33
1.106000	36.34	56.00	19.66	N	10	26.34
1.710000	35.34	56.00	20.66	N	10	25.34
17.598000	38.90	60.00	21.10	N	10	28.9
19.146000	39.31	60.00	20.69	N	10	29.31

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.430000	26.84	47.25	20.41	N	10	16.84
0.594000	31.77	46.00	14.23	N	10	21.77
0.782000	25.57	46.00	20.43	N	10	15.57
1.750000	24.54	46.00	21.46	N	10	14.54
2.306000	22.67	46.00	23.33	N	10	12.67
20.022000	29.18	50.00	20.82	N	10	19.18



AC Input Port/ Voltage: 120V/60Hz

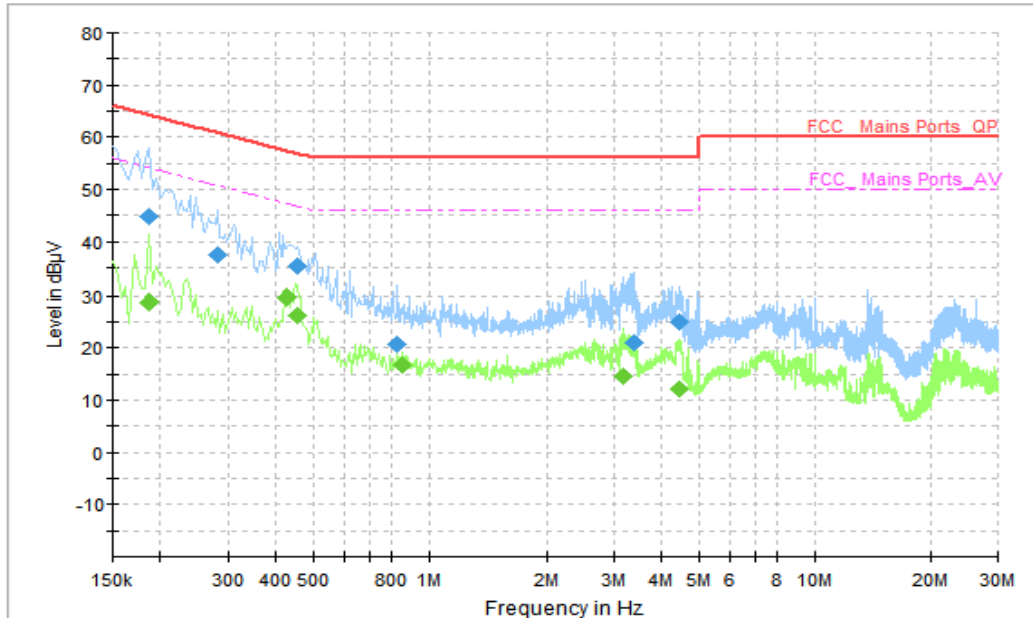


Figure A.2.4. Conducted Emission (Data Transfer)

Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.186000	44.68	64.21	19.53	N	10	34.68
0.282000	37.59	60.76	23.16	N	10	27.59
0.454000	35.24	56.80	21.57	L1	10	25.24
0.826000	20.53	56.00	35.47	N	10	10.53
3.398000	20.93	56.00	35.07	N	10	10.93
4.426000	24.91	56.00	31.09	N	10	14.91

Final\_Result\_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.186000	28.61	54.21	25.60	N	10	18.61
0.426000	29.39	47.33	17.94	N	10	19.39
0.454000	26.07	46.80	20.73	L1	10	16.07
0.850000	16.83	46.00	29.17	N	10	6.83
3.186000	14.70	46.00	31.30	N	10	4.7
4.434000	12.25	46.00	33.75	N	10	2.25

AC Input Port/ Voltage: 240V/60Hz

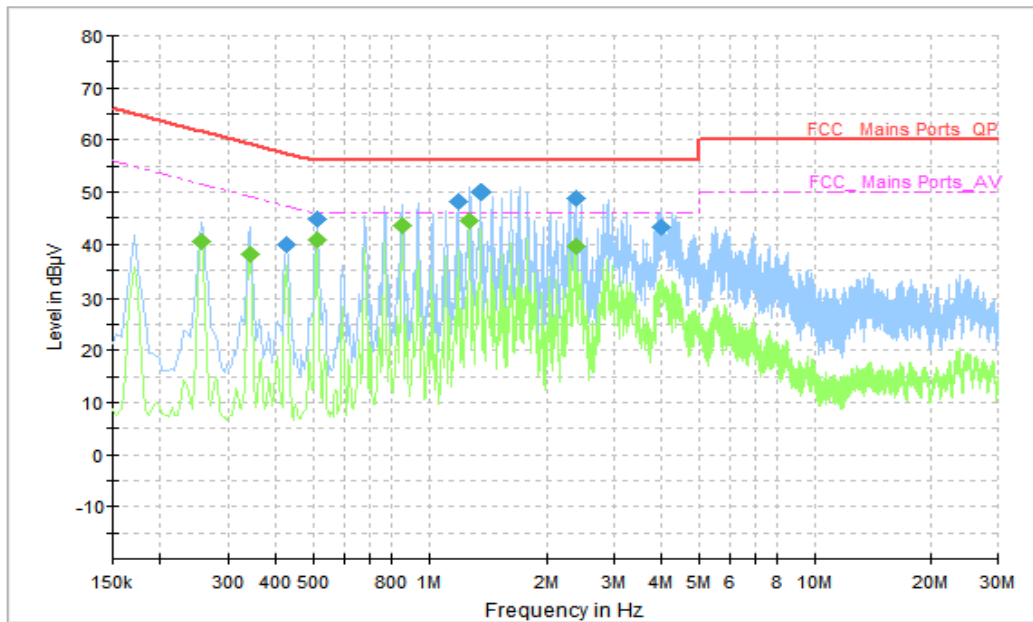


Figure A.2.5. Conducted Emission (Camera)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.426000	39.98	57.33	17.35	N	10	29.98
0.510000	44.86	56.00	11.14	N	10	34.86
1.190000	48.17	56.00	7.83	N	10	38.17
1.362000	50.10	56.00	5.90	N	10	40.10
2.382000	48.93	56.00	7.08	N	10	38.93
4.002000	43.30	56.00	12.70	N	10	33.30

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.254000	40.60	51.63	11.03	N	10	30.60
0.342000	38.14	49.16	11.02	N	10	28.14
0.510000	40.73	46.00	5.27	N	10	30.73
0.850000	43.59	46.00	2.41	L1	10	33.59
1.274000	44.41	46.00	1.59	L1	10	34.41
2.382000	39.52	46.00	6.48	L1	10	29.52

AC Input Port/ Voltage: 240V/60Hz

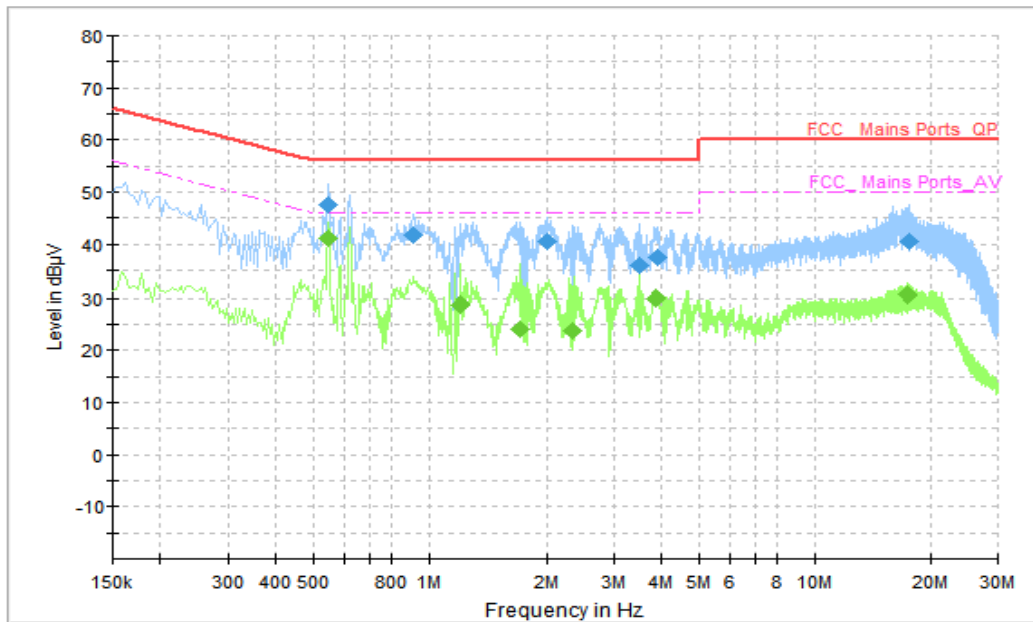


Figure A.2.6. Conducted Emission (Camera)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.546000	47.47	56.00	8.53	N	10	37.47
0.914000	41.69	56.00	14.31	N	10	31.69
2.006000	40.59	56.00	15.41	N	10	30.59
3.502000	35.92	56.00	20.08	N	10	25.92
3.878000	37.61	56.00	18.39	N	10	27.61
17.550000	40.58	60.00	19.42	N	10	30.58

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.546000	41.31	46.00	4.69	N	10	31.31
1.206000	28.58	46.00	17.42	N	10	18.58
1.714000	24.01	46.00	21.99	N	10	14.01
2.334000	23.61	46.00	22.39	N	10	13.61
3.870000	29.79	46.00	16.21	N	10	19.79
17.386000	30.39	50.00	19.61	N	10	20.39

AC Input Port/ Voltage: 240V/60Hz

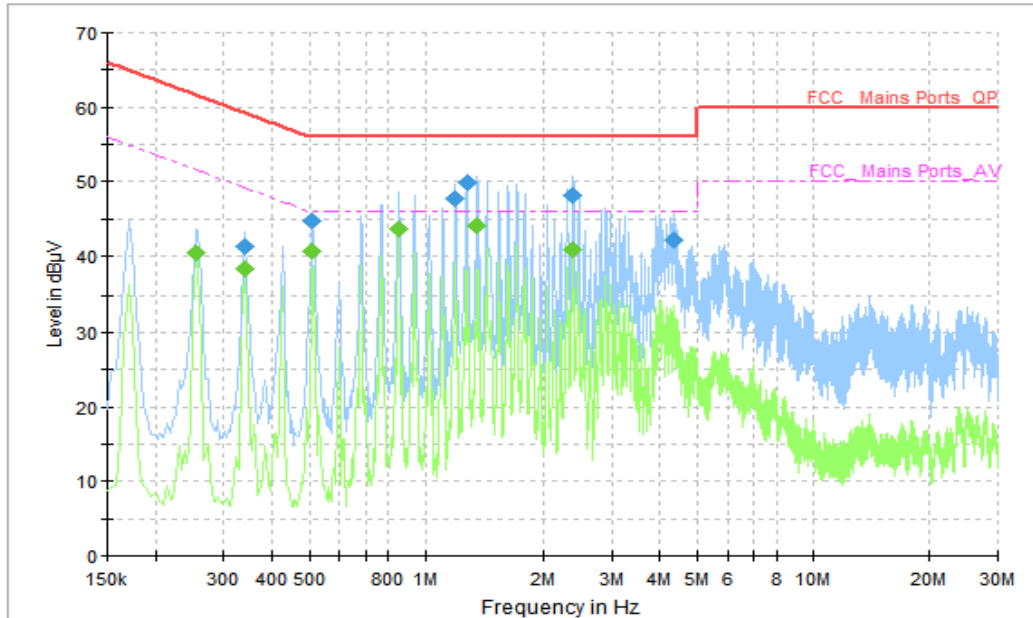


Figure A.2.7. Conducted Emission (Video Player)

**Final\_Result\_QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.342000	41.40	59.16	17.76	N	10	31.40
0.510000	44.75	56.00	11.25	N	10	34.75
1.194000	47.73	56.00	8.27	N	10	37.73
1.278000	49.91	56.00	6.09	N	10	39.91
2.386000	48.21	56.00	7.79	N	10	38.21
4.338000	42.09	56.00	13.91	N	10	32.09

**Final\_Result\_AVG**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.254000	40.51	51.63	11.12	L1	10	30.51
0.342000	38.39	49.16	10.76	L1	10	28.39
0.510000	40.59	46.00	5.41	L1	10	30.59
0.850000	43.57	46.00	2.43	L1	10	33.57
1.362000	44.09	46.00	1.91	L1	10	34.09
2.382000	40.96	46.00	5.04	L1	10	30.96

AC Input Port/ Voltage: 240V/60Hz

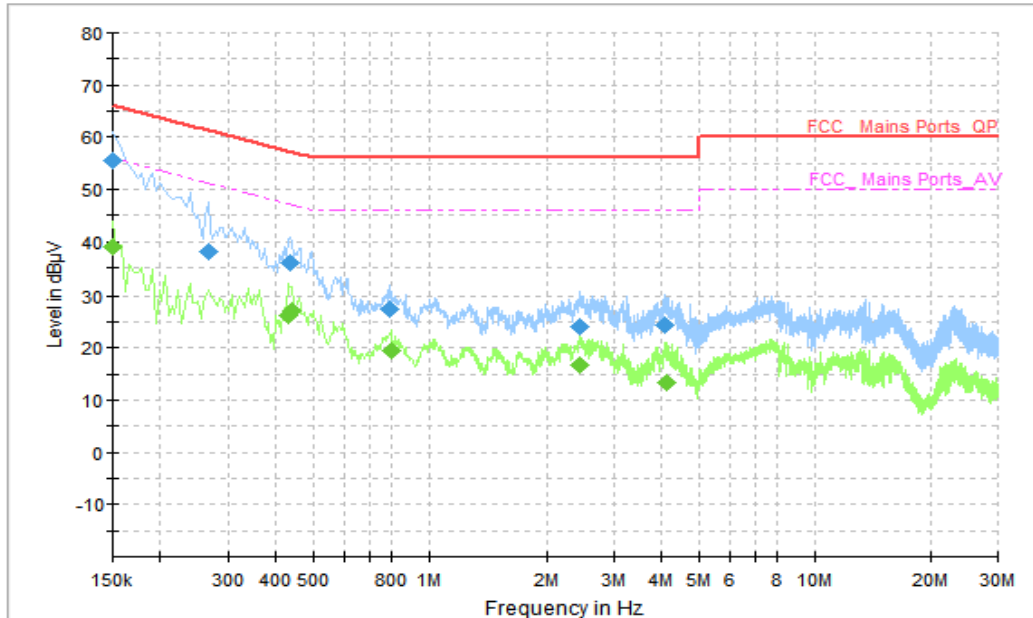


Figure A.2.8. Conducted Emission (Data Transfer)

Final\_Result\_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.150000	55.67	66.00	10.33	L1	10	45.67
0.266000	38.17	61.24	23.08	L1	10	28.17
0.434000	35.84	57.18	21.33	L1	10	25.84
0.786000	27.35	56.00	28.65	L1	10	17.35
2.438000	24.16	56.00	31.84	L1	10	14.16
4.058000	24.44	56.00	31.56	L1	10	14.44

Final\_Result\_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.150000	39.03	56.00	16.97	L1	10	29.03
0.430000	26.17	47.25	21.08	L1	10	16.17
0.438000	27.09	47.10	20.01	L1	10	17.09
0.798000	19.34	46.00	26.66	L1	10	9.34
2.438000	16.64	46.00	29.36	L1	10	6.64
4.094000	13.21	46.00	32.79	N	11	2.21

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