



# TEST REPORT

No.I20N03225-EMC

for

**HMD Global Oy**

**Multi-band GSM/WCDMA/LTE phone with Bluetooth, WLAN**

**Model Name: TA-1334**

**With**

**Hardware Version: 99652\_1\_11**

**Software Version: 000T\_0\_080**

**FCC ID: 2AJOTTA-1334**

**Issued Date: 2021-01-17**

**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>
I20N03225-EMC	Rev.0	1st edition	2021-01-17

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	Multi-band GSM/WCDMA/LTE phone with Bluetooth, WLAN
Model Name	TA-1334
Applicant's name	HMD Global Oy
Manufacturer's Name	HMD Global Oy

### 1.2. Test Standards

FCC Part 15, Subpart B 10-1-2019 Edition; ANSI C63.4 2014

### 1.3. Test Result

#### Pass

Total test 1 items, pass 1 items. Please refer to "6.2 Summary of Measurement Results"

### 1.4. Testing Location

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

### 1.5. Project data

Testing Start Date: 2020-12-15

Testing End Date: 2021-01-12

### 1.6. Signature

Ma Shoujian

(Prepared this test report)

Zhang Yunzhuan

(Reviewed this test report)

Cao Junfei

(Approved this test report)



## **2. ClientInformation**

### **2.1. Applicant Information**

Company Name: HMD Global Oy  
Address: Bertel Jungin aukio 902600 Espoo, Finland  
Contact: Rosario Casillo  
Email: Rosario.Casillo@hmdglobal.com

### **2.2. Manufacturer Information**

Company Name: HMD Global Oy  
Address: Bertel Jungin aukio 902600 Espoo, Finland  
Contact: Rosario Casillo  
Email: Rosario.Casillo@hmdglobal.com



### **3. Equipment UnderTest (EUT) and Ancillary Equipment (AE)**

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

Description	Multi-band GSM/WCDMA/LTE phone with Bluetooth, WLAN
Model Name	TA-1334
FCC ID	2AJOTTA-1334
Antenna Type	Internal Antenna
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>
UT10aa	358078140042866	99652_1_11	000T_0_080	2020-12-15

\*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	WT340
Manufacturer	Guangdong Fenghua New Energy Co.,Ltd
Capacity	4900mAh
Nominal Voltage	3.85V

##### AE2-1

Model	PA-US5V2A-036
Manufacturer	Yutong Electronics(Huizhou) Co., Ltd

##### AE2-2

Model	CH-21U
Manufacturer	Shenzhen Tianyin Electronics Co., Ltd

##### AE3-1

Model	CB-36A
Manufacturer	ShenZhen BRL Technology Co., Ltd

##### AE3-2

Model	CB-36A
Manufacturer	Huizhou Washin Electronics co.,LTD



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AE4-1

Model HS-34

Manufacturer New Leader Industry Co.,Ltd

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

AE: ancillary equipment



### 3.4. EUT set-ups

#### EUT set-up No.

Set.1  
Set.2  
Set.3  
Set.4

#### Combination of EUT and AE

EUT+AE1+AE2-1+AE3-1+AE4  
EUT+AE1+AE2-2+AE3-2+AE4  
EUT+AE1+AE3-1+AE4+PC  
EUT+AE1+AE3-2+AE4+PC





**3.5. General Description**

The Equipment Under Test (EUT) is a model of Multi-band GSM/WCDMA/LTE phone with Bluetooth, WLAN with internal antenna.

It supports GSM 850/900/1800/1900MHz, WCDMA Bands 1/5/8, and LTE Bands 1/3/5/7/8/20/28/38/41.

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

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

Samples (EUT+AE) undergoing test were selected by the Client. Relevant information is provided by the Client.

Multi-band GSM/WCDMA/LTE phone with Bluetooth, WLAN TA-1334 manufactured by HMD Global Oy is a variant model based on TA-1346 manufactured by HMD Global Oy for conformance test. According to client's description, the table below shows the difference between model TA-1346 and TA-1334:

Changes	TA-1346	TA-1334
MMS/STK/USAT/ USIM changes	single SIM	dual SIM
WCDMA Bands	12/4/5/8	1/5/8
LTE Bands	1/2/3/4/5/7/8/12/17/28/66.	1/3/5/7/8/20/28/38/41.
FCC ID	2AJOTTA-1346	2AJOTTA-1334

According to the declaration of differences by manufacturer, the following tests need to be performed.

NO.	Test item	EUT Operating Mode
1	Radiated Emission	Camera/Video Player/GNSS/FM receiver/GSM receiver/ WCDMA receiver/LTE receiver/ Data Transfer

Other results are cited from the initial report.

The report number for initial model is I20N03221-EMC.

The FCC ID for initial model:2AJOTTA-1346.

## 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	10-1-2019 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

<b>Abbreviations used in this clause:</b>	
P	Pass
NA	Not applicable
F	Fail

<b>Items</b>	<b>Test Name</b>	<b>Clause in FCC rules</b>	<b>Section in this report</b>	<b>Verdict</b>
1	Radiated Emission	15.109(a)	A.1	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	4.84dB(k=2)
	1GHz-18GHz	4.68dB(k=2)
Conducted Emission	150kHz-30MHz	3.00dB(k=2)

## 8. Test Facilities Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CALDUE DATE	CAL PERIOD
1.	Test Receiver	ESR7	101676	R&S	2021.12.25	1 year
2.	Test Receiver	ESCI	100701	R&S	2021.08.09	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2022.01.13	1 year
4.	BiLog Antenna	3142E	00224831	ETS-Lindgren	2021.05.17	3 years
5.	Horn Antenna	3117	00066577	ETS-Lindgren	2022.04.02	3 years
6.	Universal Radio Communication Tester	CMU200	114545	R&S	2022.01.13	1 year
7.	Universal Radio Communication Tester	CMW500	152499	R&S	2021.07.16	1 year
8.	Signal Generator	SMB100A	179725	R&S	2021.11.25	1 year
9.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2021.07.19	2 years
10.	Software	EMC32	V10.01.00	R&S	/	/

## 9. Test Accessory Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CALDUE DATE	CAL PERIOD
1.	PC	ThinkPad T480	PF-13LW0C	Lenovo	/	/
2.	Printer	V1.0008	VNF6C12491	HP	/	/
3.	Mouse	MOEUUOA	44NY517	Lenovo	/	/

## **ANNEX A: MEASUREMENT RESULTS**

### **A.1 Radiated Emission (§15.109(a))**

#### **Reference**

FCC: CFR Part 15.109(a)

#### **A.1.1 Method of measurement**

The field strength of radiated emissions from the unintentional radiator (Data transfer mode of EUT and charging mode of EUT) at a distance of 3 meters 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. The measurement antenna was placed at a distance of 3 meters from the EUT. 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 MS or TF Card, reading and erasing the data after copy action was finished.

**GNSS:**The EUT is connected to a charger for charging. A vector signal generator is used to provide the simulated GNSS signal, and the frequency is set to 1575.42 MHz. Before the test starts, the integrated GNSS application in EUT is started up and locked to the simulated GNSS signal.

Meanwhile, the EUT is synchronized to System Simulator (SS), and able to respond to paging messages and incoming call. An established call has been released.

**GSM receiver:** The EUT is connected to a charger for charging.The EUT is synchronized to 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 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 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 Band 5, LTE Band 5.

The EUT was tested while operating in licensed band Rx mode. All licensed band receivers that tune in the range of 30MHz-960MHz, 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 CFR Part 15.109(a)

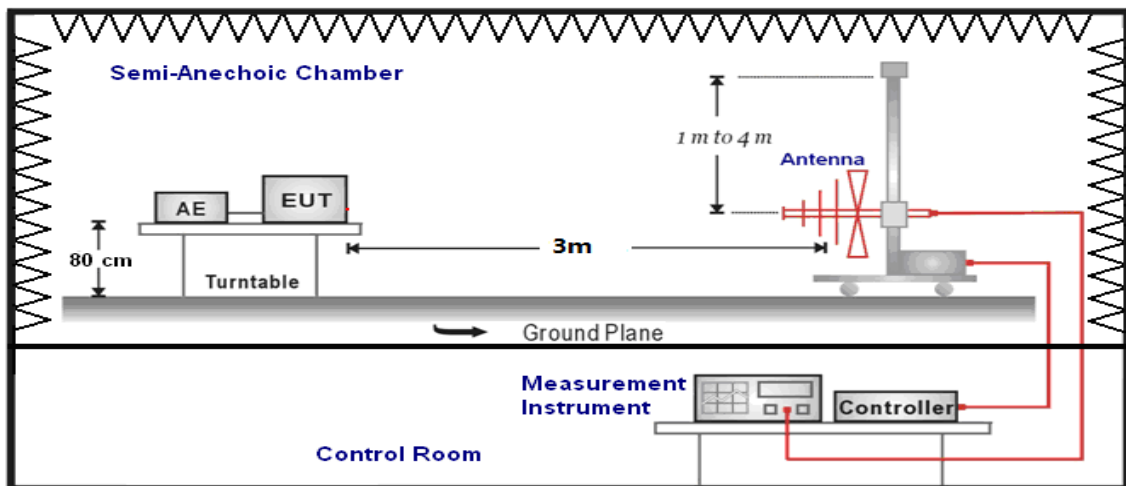
Frequency range (MHz)	Field strength limit ( $\mu\text{V}/\text{m}$ )		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

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

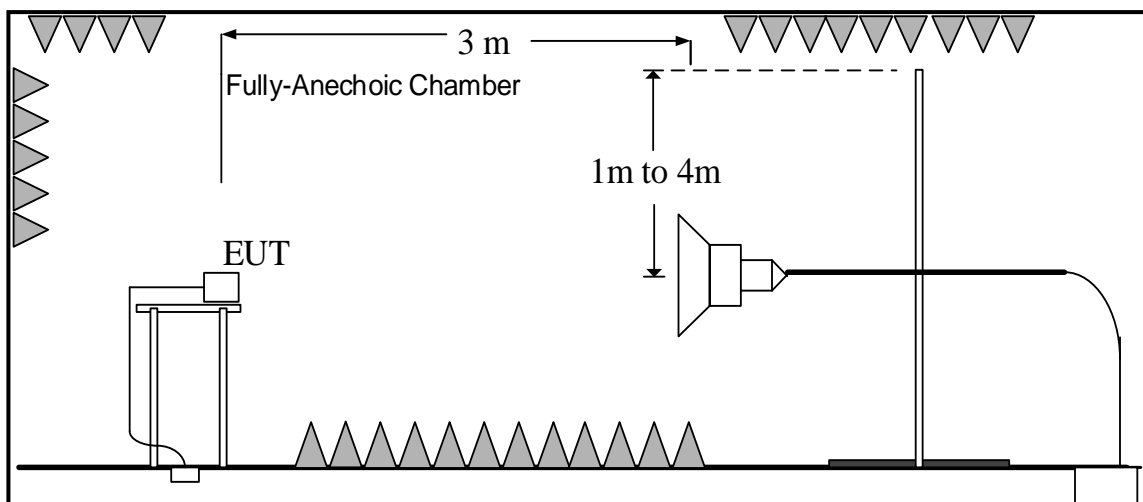
**A.1.4 Test Condition**

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

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



**1GHz-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



## GSM Receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m) UT10aa/Set.1	Conclusion
30-88	40.00	See Fugure A.1.1.	P
88-216	43.50		
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
			UT10aa/Set.1	
1000 to 3000	54	74	See Fugure A.1.2.	P
3000to 18000	54	74	See Fugure A.1.3.	P

## WCDMA Receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m) UT10aa/Set.1	Conclusion
30-88	40.00	See Fugure A.1.4.	P
88-216	43.50		
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
			UT10aa/Set.1	
1000 to 3000	54	74	See Fugure A.1.5.	P
3000to 18000	54	74	See Fugure A.1.6.	P

LTE Receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m) UT10aa/Set.1	Conclusion
30-88	40.00	See Fugure A.1.7.	P
88-216	43.50		
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
			UT10aa/Set.1	
1000 to 3000	54	74	See Fugure A.1.8.	P
3000to 18000	54	74	See Fugure A.1.9.	P

GSM Receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m) UT10aa/Set.2	Conclusion
30-88	40.00	See Fugure A.1.10.	P
88-216	43.50		
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
			UT10aa/Set.2	
1000 to 3000	54	74	See Fugure A.1.11.	P
3000to 18000	54	74	See Fugure A.1.12.	P

FM receiver

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT10aa/Set.1	
30-88	40.00	See Fugure A.1.13.	P
88-216	43.50		
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
			UT10aa/Set.1	
1000 to 3000	54	74	See Fugure A.1.14.	P
3000to 18000	54	74	See Fugure A.1.15.	P

Video Player

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT10aa/Set.1	
30-88	40.00	See Fugure A.1.16.	P
88-216	43.50		
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
			UT10aa/Set.1	
1000 to 3000	54	74	See Fugure A.1.17.	P
3000to 18000	54	74	See Fugure A.1.18.	P

## Camera

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT10aa/Set.1	
30-88	40.00	See Fugure A.1.19.	P
88-216	43.50		
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
			UT10aa/Set.1	
1000 to 3000	54	74	See Fugure A.1.20.	P
3000to 18000	54	74	See Fugure A.1.21.	P

## GPS

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT10aa/Set.1	
30-88	40.00	See Fugure A.1.22.	P
88-216	43.50		
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
			UT10aa/Set.1	
1000 to 3000	54	74	See Fugure A.1.23.	P
3000to 18000	54	74	See Fugure A.1.24.	P

## GLONASS

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT10aa/Set.1	
30-88	40.00	See Fugure A.1.25.	P
88-216	43.50		
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
			UT10aa/Set.1	
1000 to 3000	54	74	See Fugure A.1.26.	P
3000to 18000	54	74	See Fugure A.1.27.	P

## FM receiver

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT10aa/Set.2	
30-88	40.00	See Fugure A.1.28.	P
88-216	43.50		
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
			UT10aa/Set.2	
1000 to 3000	54	74	See Fugure A.1.29.	P
3000to 18000	54	74	See Fugure A.1.30.	P

## Data Transfer : EUT to PC

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT10aa/Set.3	
30-88	40.00	See Fugure A.1.31.	P
88-216	43.50		
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
			UT10aa/Set.3	
1000 to 3000	54	74	See Fugure A.1.32.	P
3000to 18000	54	74	See Fugure A.1.33.	P

## Data Transfer : PC to EUT

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT10aa/Set.3	
30-88	40.00	See Fugure A.1.34.	P
88-216	43.50		
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
			UT10aa/Set.3	
1000 to 3000	54	74	See Fugure A.1.35.	P
3000to 18000	54	74	See Fugure A.1.36.	P

## Data Transfer : PC to TF Card

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT10aa/Set.3	
30-88	40.00	See Fugure A.1.37.	P
88-216	43.50		
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
			UT10aa/Set.3	
1000 to 3000	54	74	See Fugure A.1.38.	P
3000to 18000	54	74	See Fugure A.1.39.	P

## Data Transfer : TF Card to PC

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT10aa/Set.3	
30-88	40.00	See Fugure A.1.40.	P
88-216	43.50		
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
			UT10aa/Set.3	
1000 to 3000	54	74	See Fugure A.1.41.	P
3000to 18000	54	74	See Fugure A.1.42.	P



Data Transfer : PC to TF Card

Frequency range (MHz)	Quasi-Peak Limit (dB $\mu$ V/m)	Result (dB $\mu$ V/m)	Conclusion
		UT10aa/Set.4	
30-88	40.00	See Fugure A.1.43.	P
88-216	43.50		
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
			UT10aa/Set.4	
1000 to 3000	54	74	See Fugure A.1.44.	P
3000to 18000	54	74	See Fugure A.1.45.	P



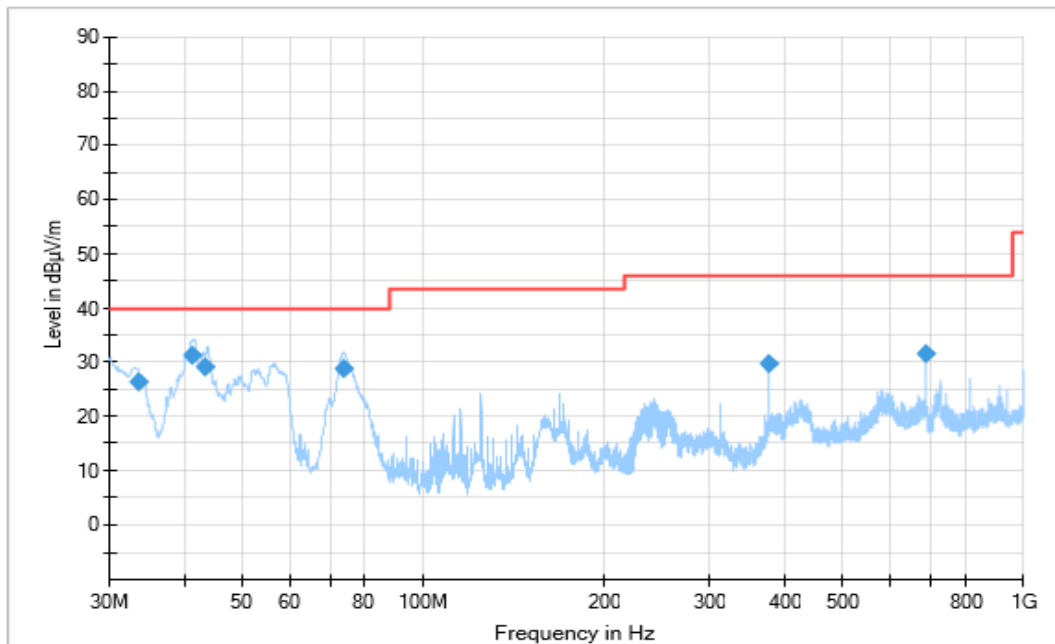


Figure A.1.1. Radiated Emission (GSM Receiver 850MHz, 30MHz to 1GHz)

Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
33.575000	26.44	40.00	13.56	V	-26.1	52.54
41.124444	31.21	40.00	8.79	V	-29.7	60.91
43.395000	29.27	40.00	10.73	V	-31.6	60.87
73.602222	28.80	40.00	11.20	V	-33.7	62.50
375.030556	29.63	46.00	16.37	H	-26.7	56.33
687.518333	31.58	46.00	14.42	V	-19.7	51.28

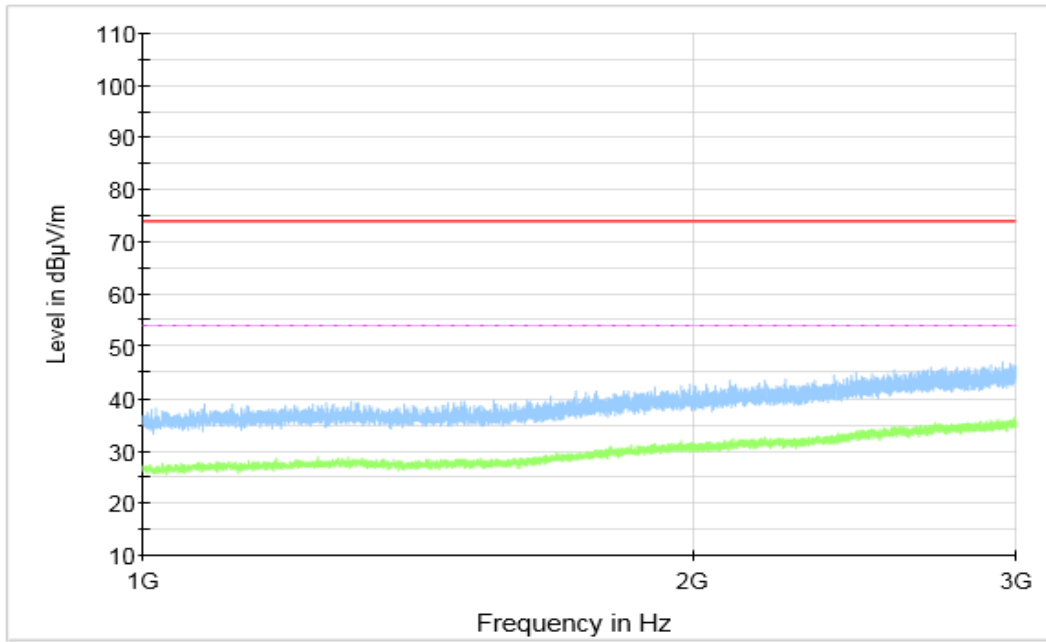


Figure A.1.2. Radiated Emission (GSM Receiver 850MHz, 1GHz to 3GHz)

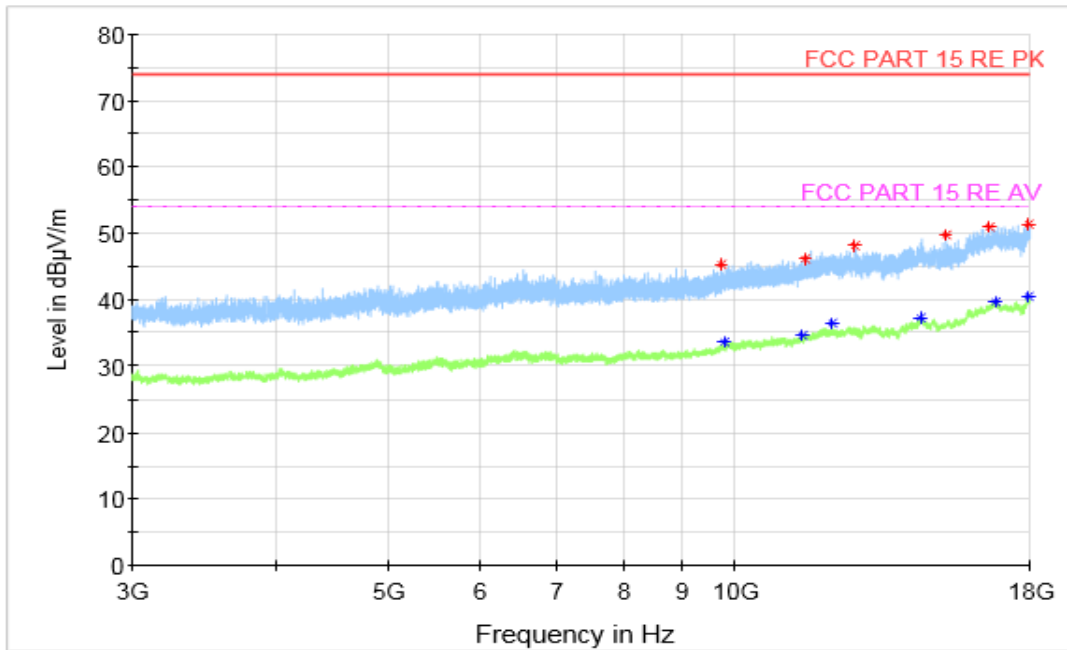


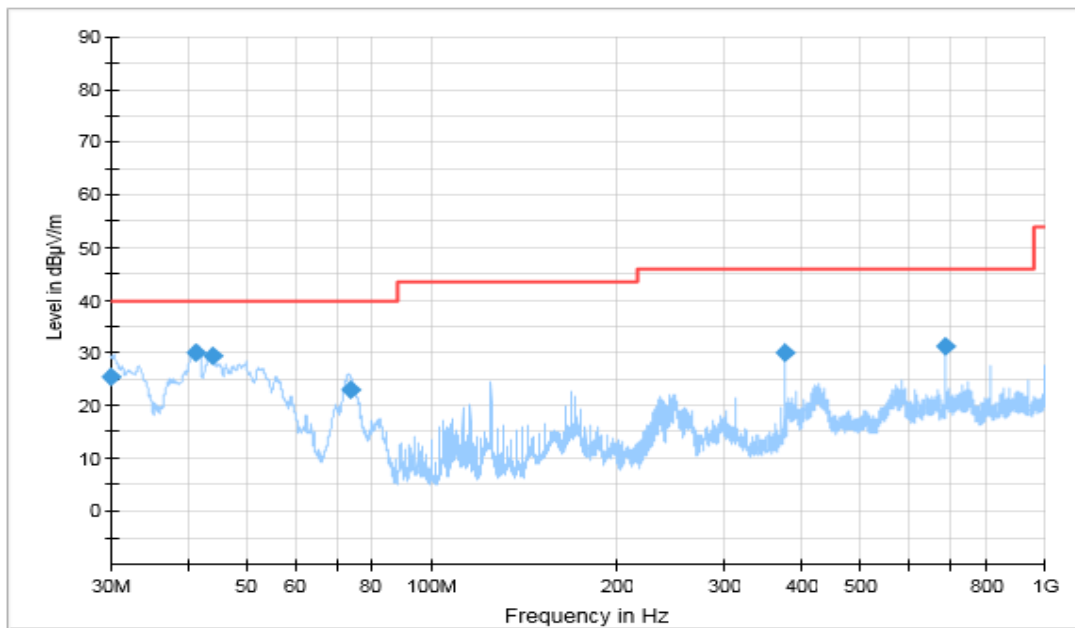
Figure A.1.3. Radiated Emission (GSM Receiver 850MHz, 3GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9727.500000	45.29	74.00	28.71	H	4.8	40.49
11490.000000	46.16	74.00	27.84	V	7.0	39.16
12672.500000	48.11	74.00	25.89	H	9.0	39.11
15235.500000	49.69	74.00	24.31	V	11.8	37.89
16596.500000	50.90	74.00	23.10	H	15.3	35.6
17955.500000	51.48	74.00	22.52	V	17.0	34.48

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9789.500000	33.58	54.00	20.42	H	4.9	28.68
11433.500000	34.66	54.00	19.34	H	6.8	27.86
12131.000000	36.38	54.00	17.62	H	8.3	28.08
14452.000000	37.36	54.00	16.64	H	11.6	25.76
16818.000000	39.65	54.00	14.35	H	16.0	23.65
17946.500000	40.57	54.00	13.43	V	17.3	23.27



**Figure A.1.4. Radiated Emission (WCDMA Receiver Band 5, 30MHz to 1GHz)**

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.080000	25.51	40.00	14.49	V	-24.2	49.71
41.393889	30.20	40.00	9.80	V	-29.9	60.1
43.829444	29.39	40.00	10.61	V	-31.8	61.19
73.725556	23.11	40.00	16.89	V	-33.7	56.81
375.016667	30.04	46.00	15.96	V	-26.7	56.74
687.518333	31.25	46.00	14.75	V	-19.7	50.95

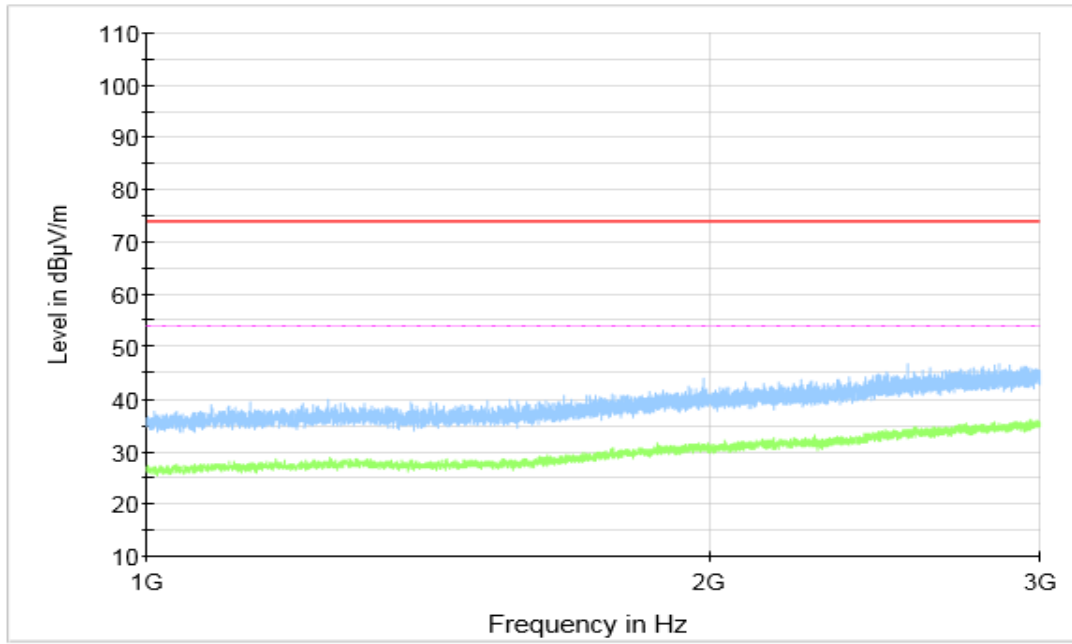


Figure A.1.5. Radiated Emission (WCDMA Receiver Band 5z, 1GHz to 3GHz)

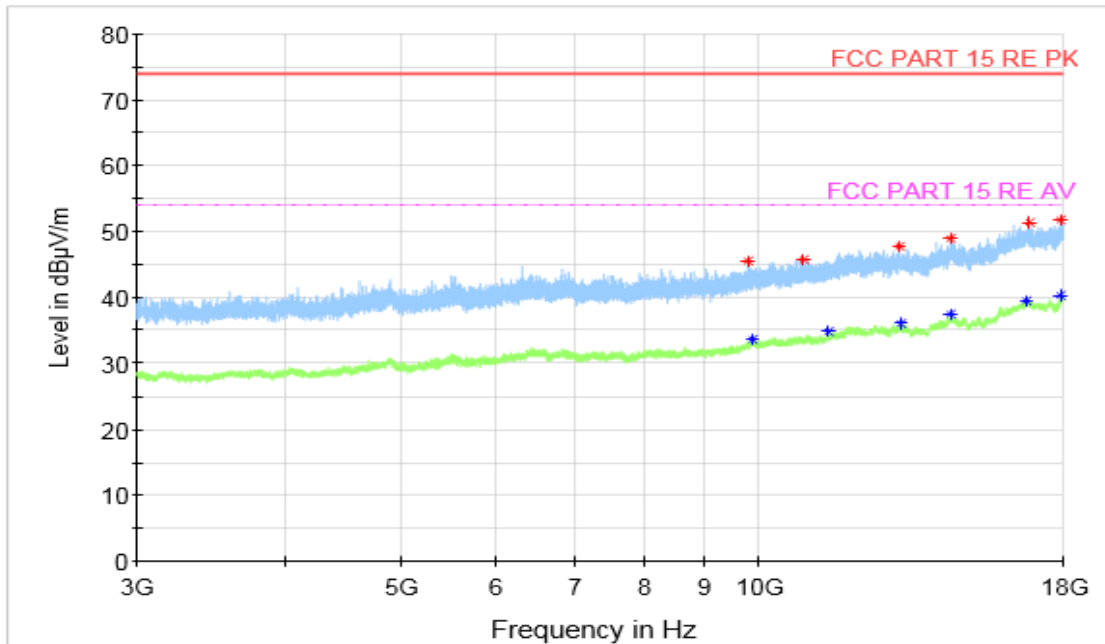


Figure A.1.6. Radiated Emission (WCDMA Receiver Band 5, 3GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9777.500000	45.45	74.00	28.55	H	4.8	40.65
10893.500000	45.82	74.00	28.18	V	6.1	39.72
13101.500000	47.80	74.00	26.20	H	9.7	38.1
14470.000000	48.91	74.00	25.09	H	11.6	37.31
16872.000000	51.31	74.00	22.69	H	15.9	35.41
17908.500000	51.71	74.00	22.29	V	17.4	34.31

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9878.000000	33.63	54.00	20.37	V	5.3	28.33
11435.000000	34.80	54.00	19.20	H	6.8	28
13163.000000	35.97	54.00	18.03	V	9.7	26.27
14486.000000	37.44	54.00	16.56	H	11.7	25.74
16773.500000	39.49	54.00	14.51	H	15.7	23.79
17918.000000	40.33	54.00	13.67	V	17.0	23.33

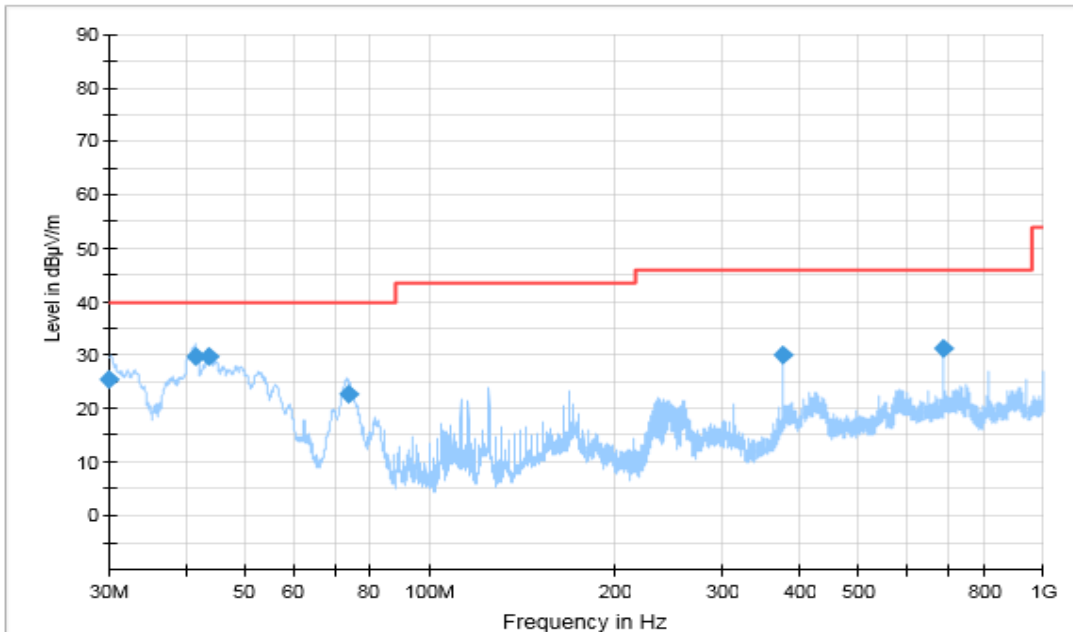


Figure A.1.7. Radiated Emission (LTE Receiver Band 5, 30MHz to 1GHz)

Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.000000	25.56	40.00	14.44	V	-24.1	49.66
41.484444	29.74	40.00	10.26	V	-30.0	59.74
43.773889	29.82	40.00	10.18	V	-31.8	61.62
73.562222	22.81	40.00	17.19	V	-33.7	56.51
375.016667	30.19	46.00	15.81	V	-26.7	56.89
687.518333	31.32	46.00	14.68	V	-19.7	51.02

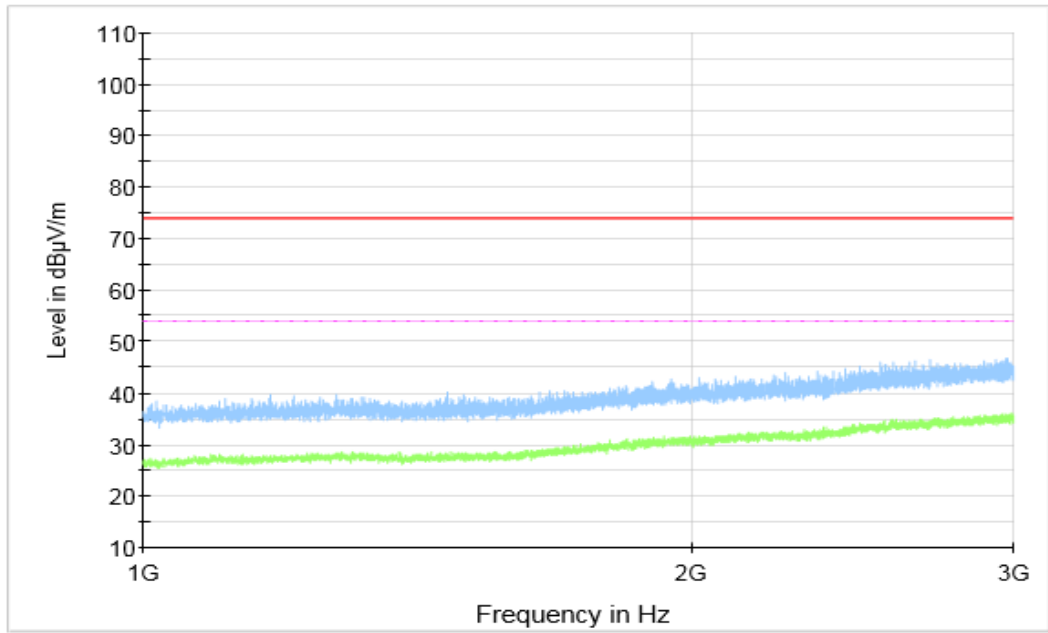
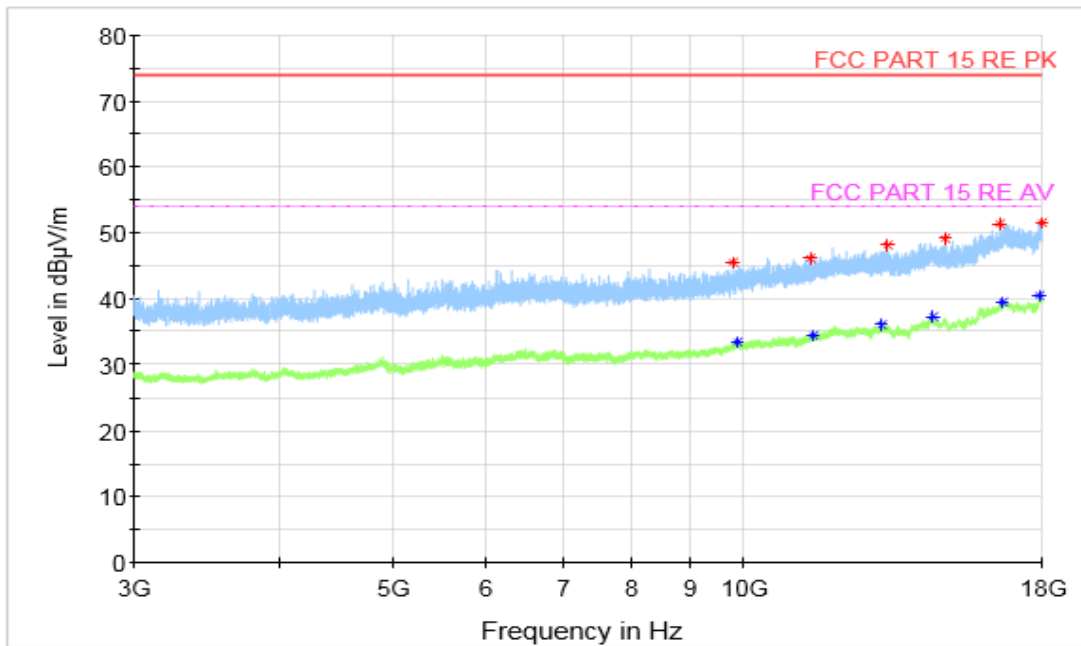


Figure A.1.8. Radiated Emission (LTE Receiver Band 5, 1GHz to 3GHz)





**Figure A.1.9. Radiated Emission (LTE Receiver Band 5 , 3GHz to 18GHz)**

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9782.500000	45.48	74.00	28.52	H	4.8	40.68
11389.500000	46.18	74.00	27.82	H	6.6	39.58
13277.500000	48.21	74.00	25.79	V	9.7	38.51
14869.500000	49.16	74.00	24.84	V	11.7	37.46
16553.500000	51.44	74.00	22.56	H	15.3	36.14
17996.500000	51.49	74.00	22.51	H	16.9	34.59

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9854.500000	33.53	54.00	20.47	H	5.3	28.23
11451.000000	34.52	54.00	19.48	V	6.8	27.72
13096.000000	35.99	54.00	18.01	V	9.7	26.29
14491.500000	37.27	54.00	16.73	V	11.7	25.57
16633.500000	39.52	54.00	14.48	H	15.4	24.12
17914.500000	40.54	54.00	13.46	V	17.2	23.34

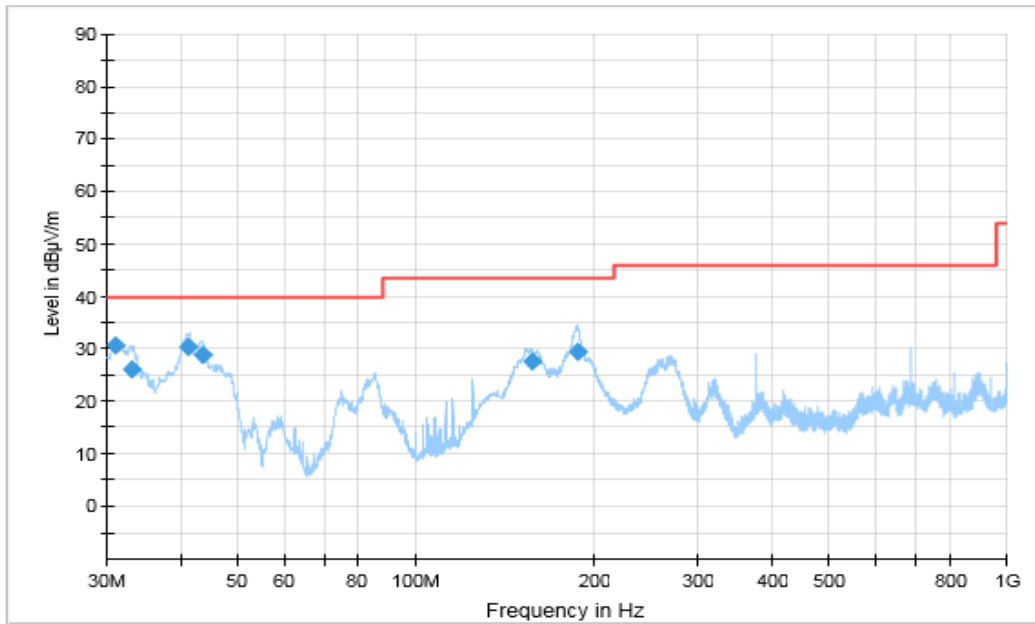


Figure A.1.10. Radiated Emission ( GSM Receiver 850MHz, 30MHz to 1GHz)

Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
31.163889	30.52	40.00	9.48	V	-25.3	55.82
33.013333	26.06	40.00	13.94	V	-25.8	51.86
41.218333	30.43	40.00	9.57	V	-29.8	60.23
43.587778	28.69	40.00	11.31	V	-31.7	60.39
157.778333	27.52	43.50	15.98	H	-33.5	61.02
188.133333	29.35	43.50	14.15	H	-33.7	63.05

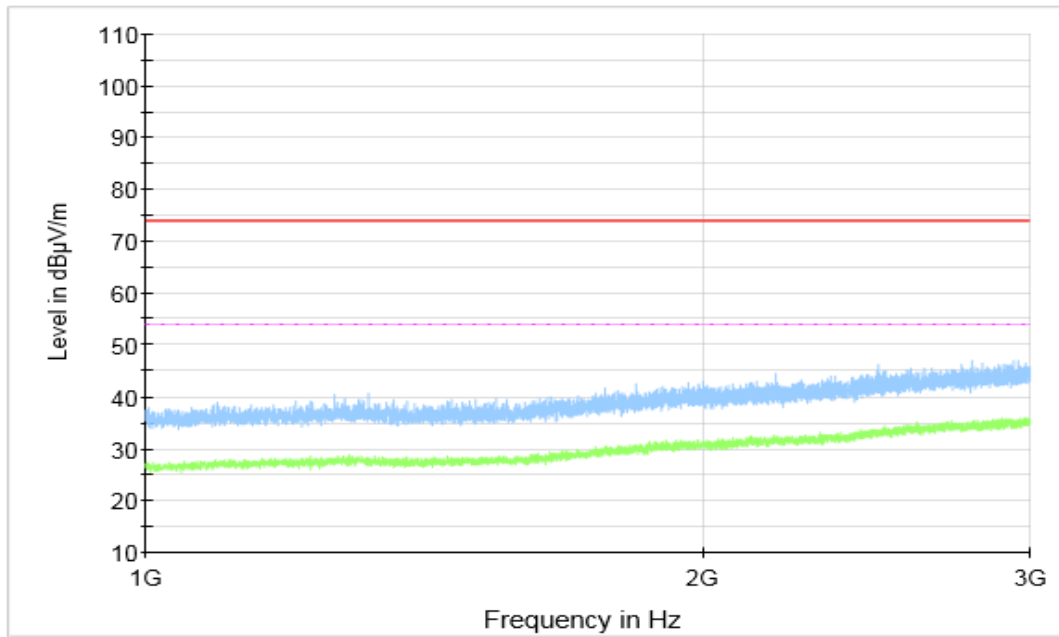


Figure A.1.11. Radiated Emission (GSM Receiver 850MHz, 1GHz to 3GHz)

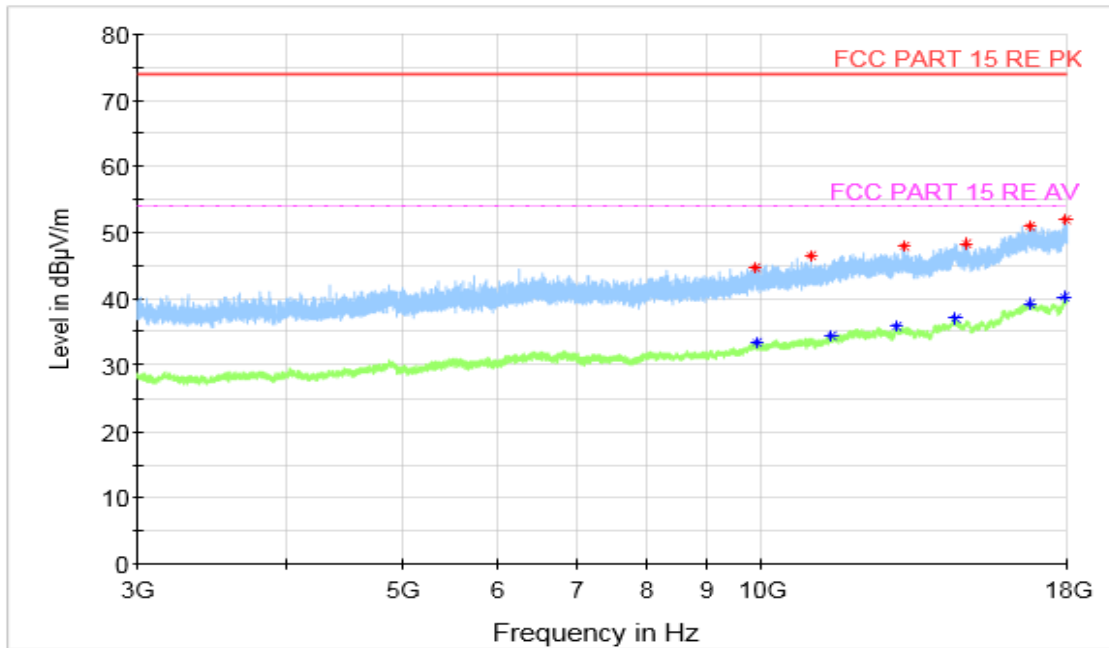


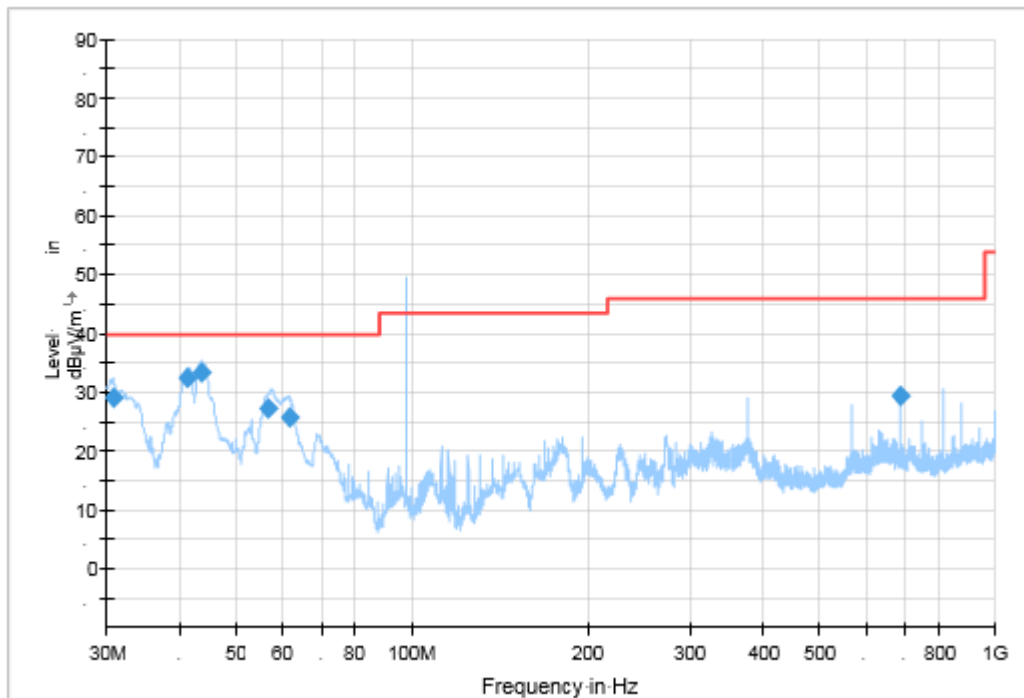
Figure A.1.12. Radiated Emission ( GSM Receiver 850MHz, 3GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9876.000000	44.74	74.00	29.26	H	5.3	39.44
10975.000000	46.62	74.00	27.38	H	6.6	40.02
13145.500000	48.02	74.00	25.98	H	9.6	38.42
14828.000000	48.42	74.00	25.58	H	11.4	37.02
16751.000000	51.00	74.00	23.00	H	15.6	35.4
17944.000000	51.93	74.00	22.07	V	17.3	34.63

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9888.500000	33.42	54.00	20.58	V	5.3	28.12
11435.000000	34.47	54.00	19.53	V	6.8	27.67
12941.500000	35.84	54.00	18.16	V	9.5	26.34
14506.000000	37.16	54.00	16.84	V	11.7	25.46
16741.500000	39.35	54.00	14.65	V	15.5	23.85
17909.000000	40.28	54.00	13.72	V	17.4	22.88



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

Note: the spike over the limit is coming from the traffic carrier.

**Final Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.760556	29.10	40.00	10.90	V	-24.9	54.00
41.404444	32.36	40.00	7.64	V	-29.9	62.26
43.733889	33.46	40.00	6.54	V	-31.8	65.26
56.778333	27.32	40.00	12.68	V	-38.0	65.32
61.977778	25.85	40.00	14.15	V	-36.0	61.85
687.518333	29.54	46.00	16.46	V	-19.7	49.24

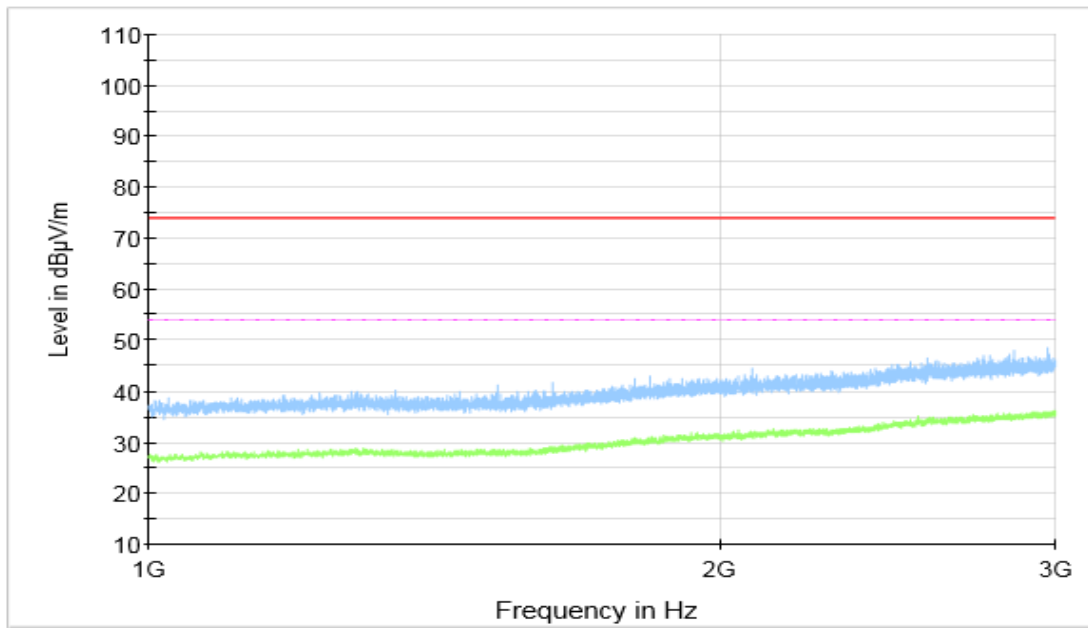


Figure A.1.14. Radiated Emission (FM receiver, 1GHz to 3GHz)

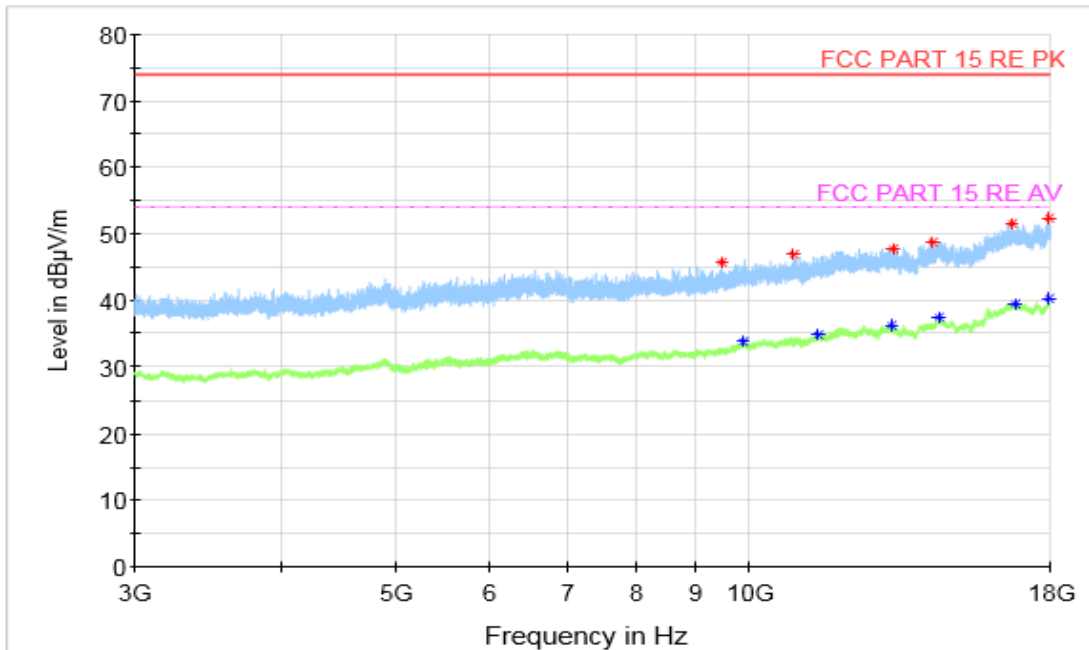


Figure A.1.15. Radiated Emission ( FM receiver , 3GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9450.500000	45.70	74.00	28.31	H	3.9	41.80
10885.500000	46.91	74.00	27.09	H	6.4	40.51
13224.000000	47.76	74.00	26.24	H	9.6	38.16
14289.500000	48.85	74.00	25.15	H	11.7	37.15
16716.500000	51.57	74.00	22.43	H	15.4	36.17
17937.000000	52.32	74.00	21.68	V	17.0	35.32

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9875.000000	33.76	54.00	20.24	V	5.2	28.56
11431.000000	34.78	54.00	19.22	H	6.8	27.98
13191.000000	36.27	54.00	17.73	H	9.8	26.47
14488.500000	37.41	54.00	16.59	H	11.7	25.71
16816.500000	39.54	54.00	14.46	H	16.0	23.54
17937.500000	40.30	54.00	13.70	H	17.1	23.20

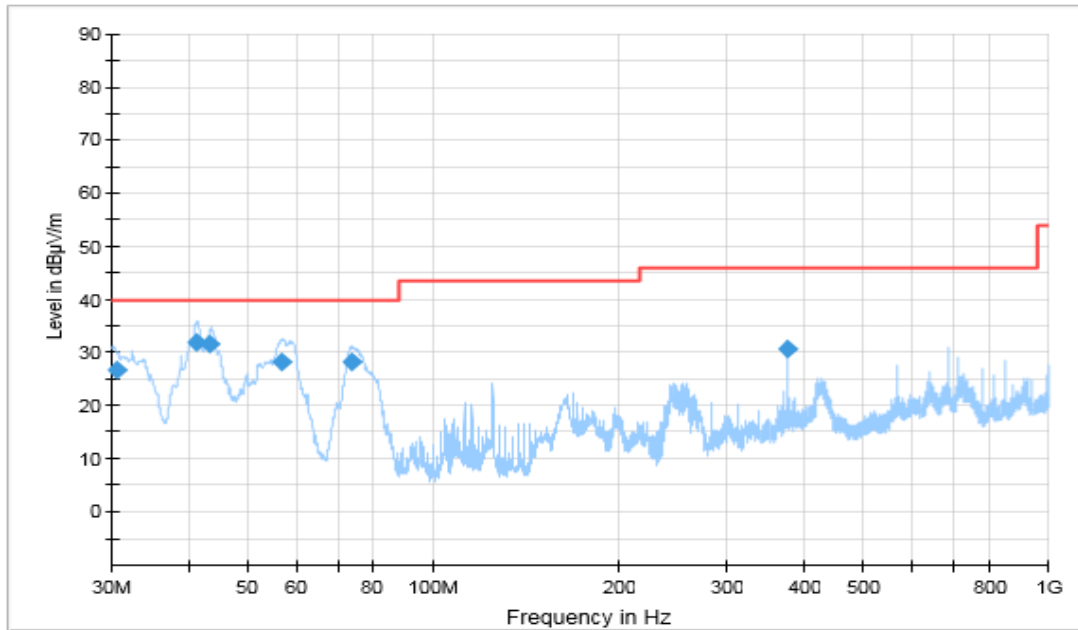


Figure A.1.16. Radiated Emission (Video Player , 30MHz to 1GHz)

Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.562222	26.64	40.00	13.36	V	-24.7	51.34
41.361111	32.01	40.00	7.99	V	-29.9	61.91
43.333889	31.51	40.00	8.49	V	-31.6	63.11
56.922778	28.13	40.00	11.87	V	-37.9	66.03
73.642222	28.15	40.00	11.85	V	-33.7	61.85
375.016667	30.56	46.00	15.44	H	-26.7	57.26



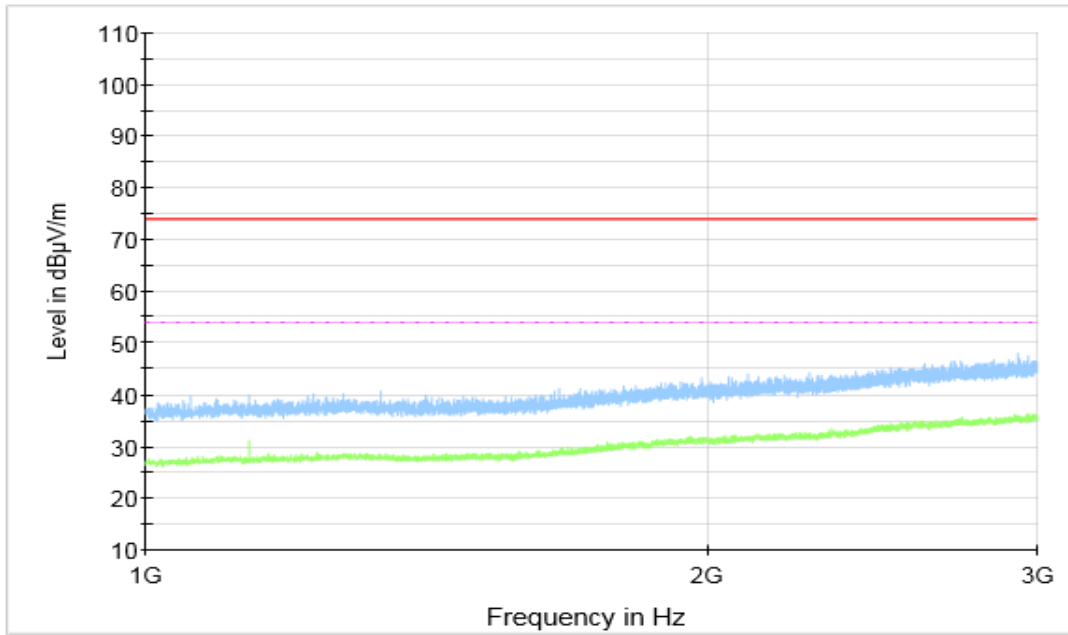


Figure A.1.17. Radiated Emission (Video Player, 1GHz to 3GHz)

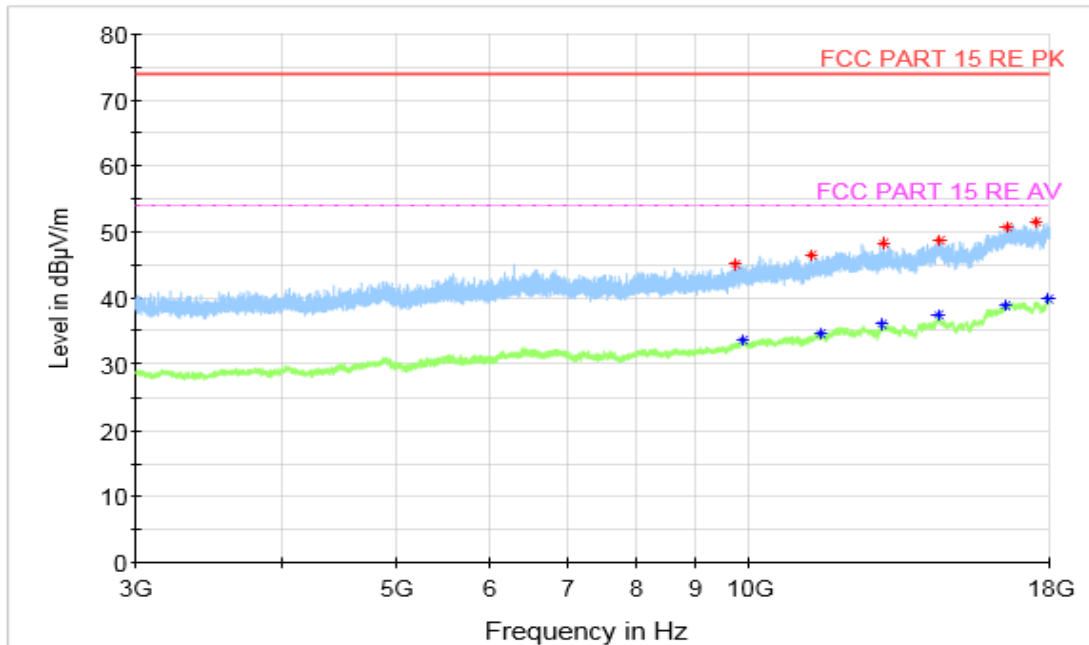


Figure A.1.18. Radiated Emission ( Video Player , 3GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9709.000000	45.15	74.00	28.85	H	4.7	40.45
11281.000000	46.55	74.00	27.45	H	6.1	40.45
13011.000000	48.30	74.00	25.70	V	9.2	39.10
14500.000000	48.78	74.00	25.22	H	11.7	37.08
16547.500000	50.77	74.00	23.23	H	15.3	35.47
17517.000000	51.61	74.00	22.39	V	15.7	35.91

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9873.000000	33.59	54.00	20.41	H	5.2	28.39
11498.500000	34.71	54.00	19.29	H	6.8	27.91
12943.500000	36.08	54.00	17.92	V	9.4	26.68
14457.500000	37.48	54.00	16.52	H	11.7	25.78
16500.500000	38.99	54.00	15.01	H	15.2	23.79
17944.500000	39.98	54.00	14.02	H	17.3	22.68

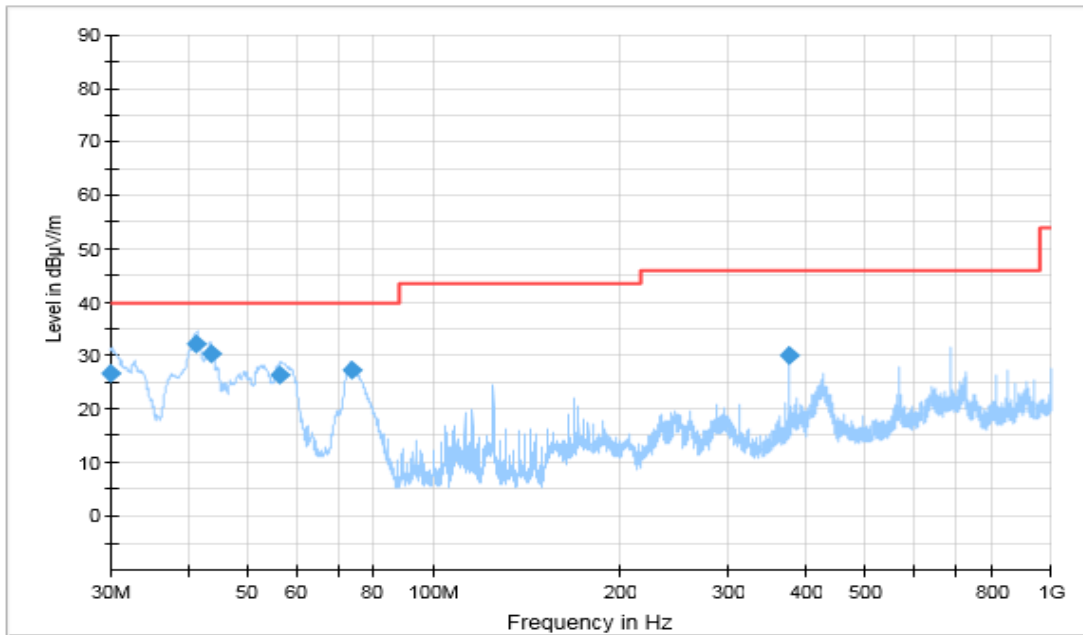


Figure A.1.19. Radiated Emission (Camera , 30MHz to 1GHz)

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.000000	26.61	40.00	13.39	V	-24.1	50.71
41.286111	32.32	40.00	7.68	V	-29.9	62.22
43.572222	30.30	40.00	9.70	V	-31.7	62.00
56.170000	26.31	40.00	13.69	V	-38.4	64.71
73.605556	27.39	40.00	12.61	V	-33.7	61.09
375.016667	30.12	46.00	15.88	H	-26.7	56.82

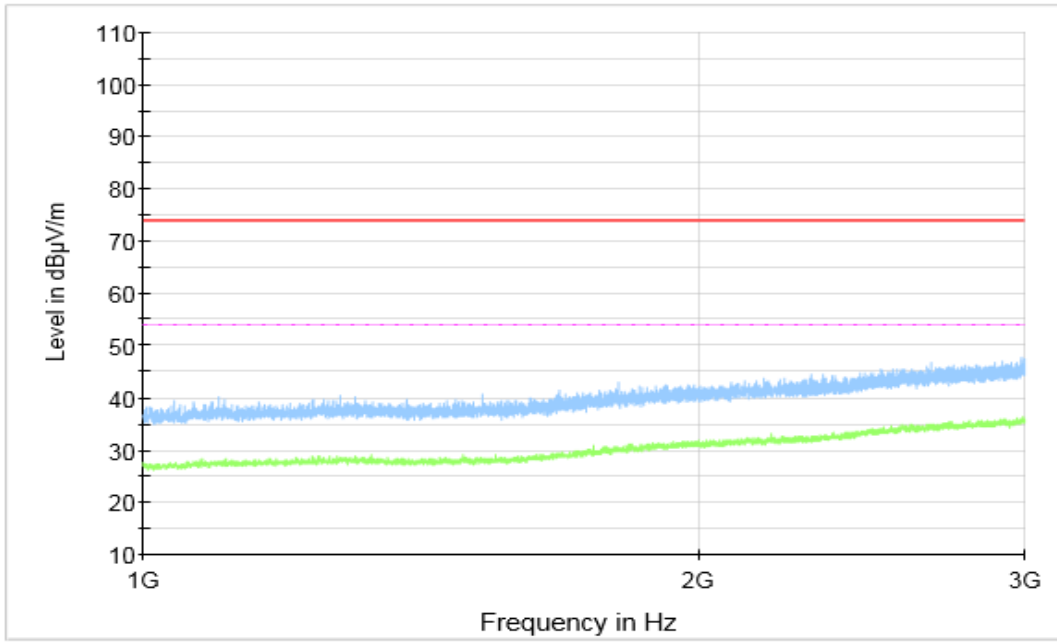


Figure A.1.20. Radiated Emission ( Camera ,1GHz to 3GHz)

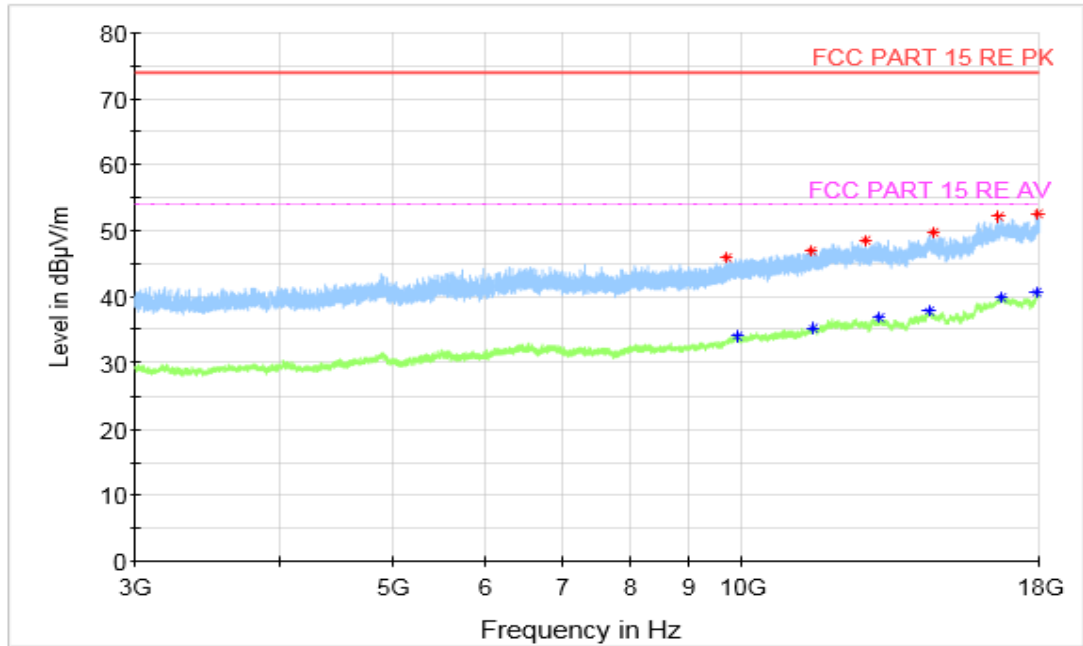


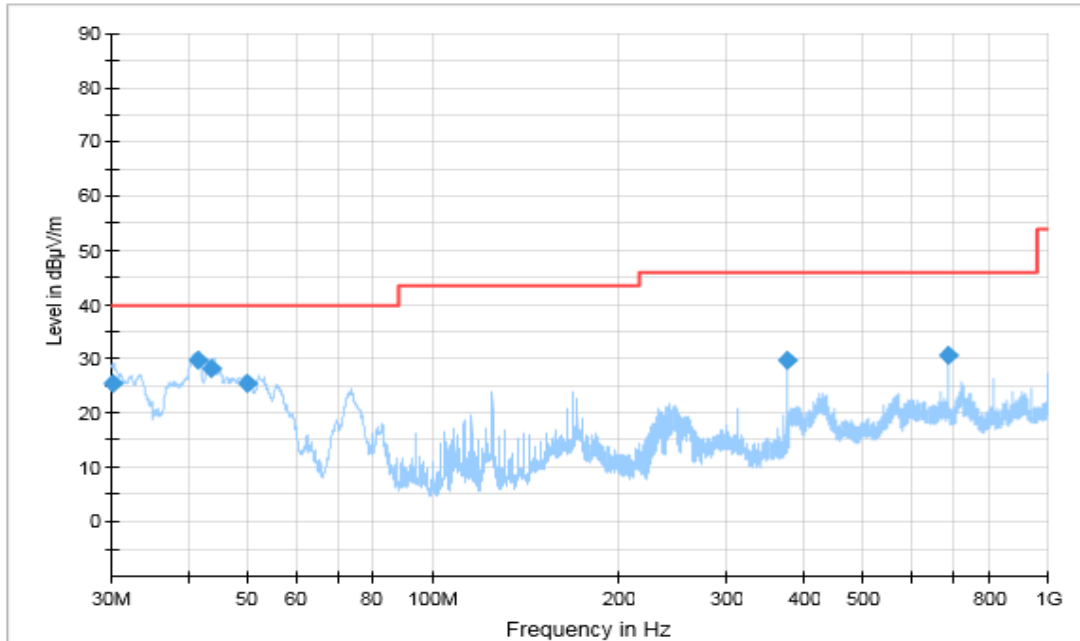
Figure A.1.21. Radiated Emission ( Camera ,3GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9677.000000	45.99	74.00	28.01	H	4.7	41.29
11471.500000	46.97	74.00	27.03	V	6.7	40.27
12755.500000	48.48	74.00	25.52	V	8.9	39.58
14589.500000	49.74	74.00	24.26	H	11.7	38.04
16580.500000	52.16	74.00	21.84	H	15.2	36.96
17946.500000	52.65	74.00	21.35	V	17.3	35.35

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9883.000000	34.07	54.00	19.93	V	5.4	28.67
11488.000000	35.35	54.00	18.65	H	6.9	28.45
13095.500000	36.87	54.00	17.13	H	9.7	27.17
14455.500000	37.97	54.00	16.03	V	11.7	26.27
16690.500000	39.94	54.00	14.06	H	15.3	24.64
17911.000000	40.73	54.00	13.27	H	17.3	23.43



**Figure A.1.22. Radiated Emission (GPS, 30MHz to 1GHz)**

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.117222	25.34	40.00	14.66	V	-24.2	49.54
41.486111	29.80	40.00	10.20	V	-30.0	59.8
43.751111	28.28	40.00	11.72	V	-31.8	60.08
49.998889	25.42	40.00	14.58	V	-36.5	61.92
375.016667	29.82	46.00	16.18	H	-26.7	56.52
687.518333	30.79	46.00	15.21	V	-19.7	50.49

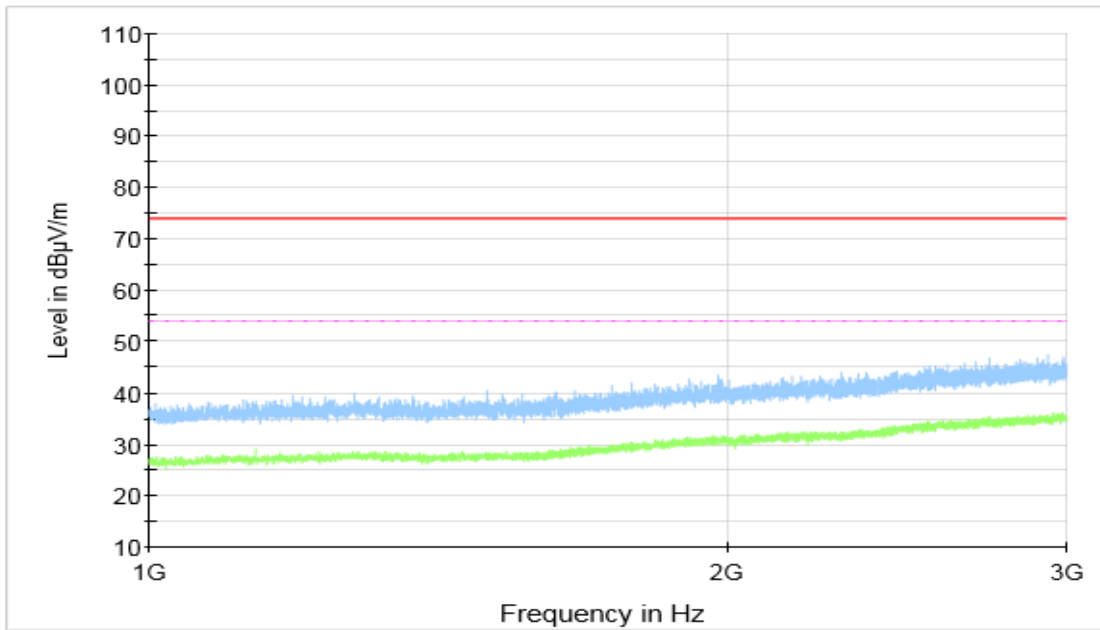


Figure A.1.23. Radiated Emission (GPS,1GHz to 3GHz)

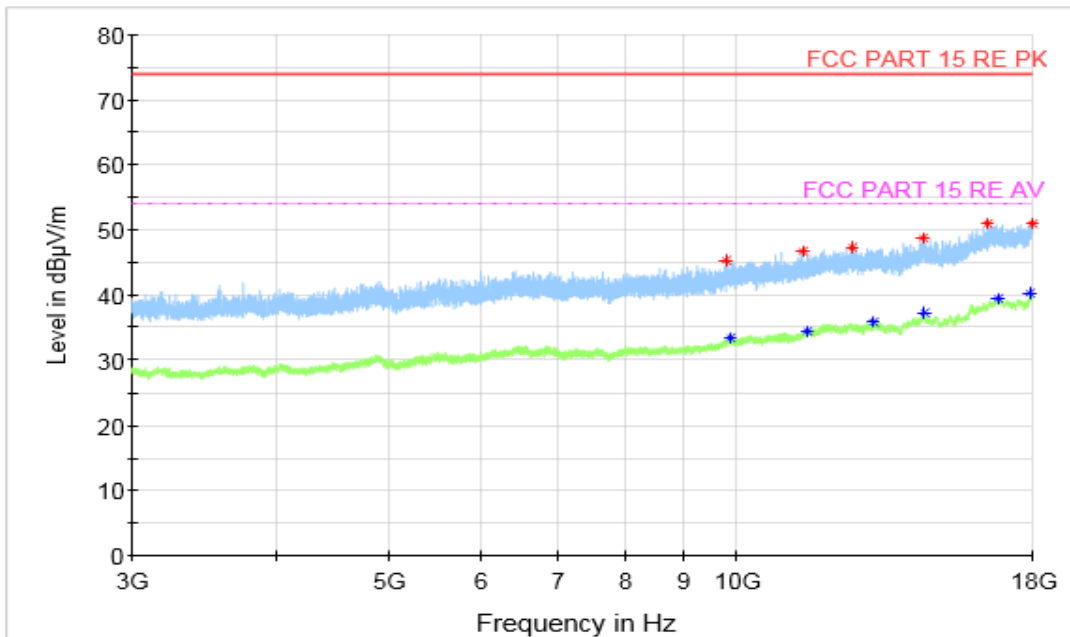


Figure A.1.24. Radiated Emission (GPS, 3GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9792.500000	45.42	74.00	28.58	V	5.0	40.42
11377.000000	46.80	74.00	27.20	H	6.6	40.2
12584.000000	47.26	74.00	26.74	H	8.6	38.66
14462.500000	48.78	74.00	25.22	H	11.8	36.98
16449.500000	50.90	74.00	23.10	V	14.9	36
17974.500000	51.06	74.00	22.94	H	16.9	34.16

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9875.000000	33.53	54.00	20.47	H	5.2	28.33
11493.500000	34.37	54.00	19.63	H	6.9	27.47
13099.500000	35.84	54.00	18.16	H	9.8	26.04
14495.000000	37.33	54.00	16.67	V	11.7	25.63
16783.000000	39.53	54.00	14.47	V	15.9	23.63
17909.000000	40.33	54.00	13.67	V	17.4	22.93



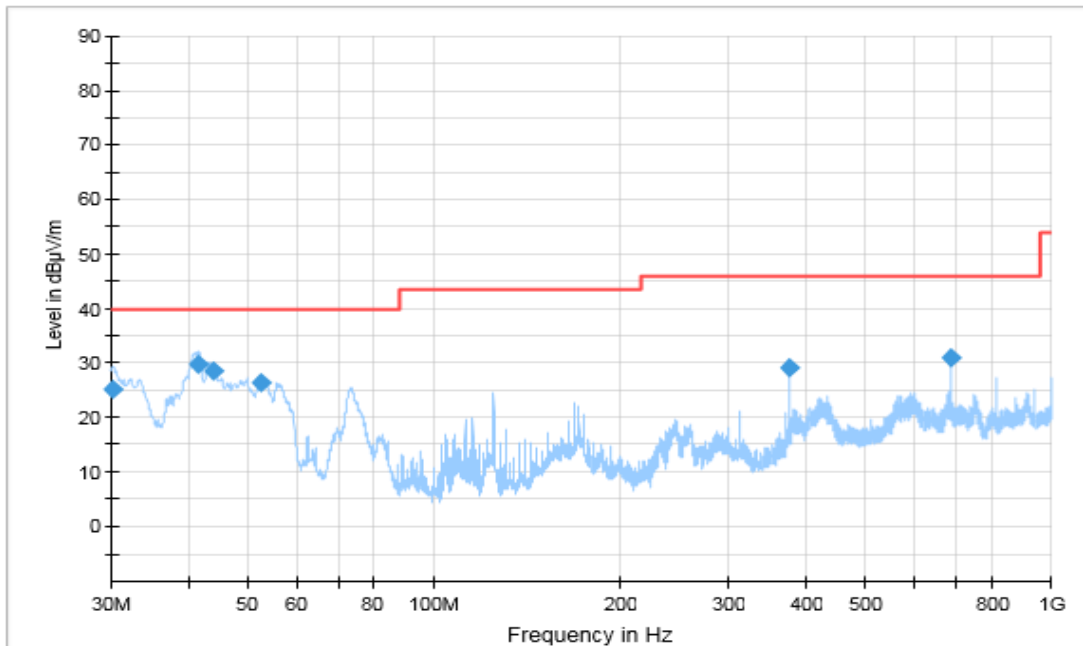


Figure A.1.25. Radiated Emission (GLONASS, 30MHz to 1GHz)

Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.320000	25.02	40.00	14.98	V	-24.5	49.52
41.684444	29.80	40.00	10.20	V	-30.1	59.9
44.045000	28.59	40.00	11.41	V	-31.9	60.49
52.356111	26.37	40.00	13.63	V	-37.9	64.27
375.016667	29.18	46.00	16.82	H	-26.7	55.88
687.518333	30.96	46.00	15.04	V	-19.7	50.66

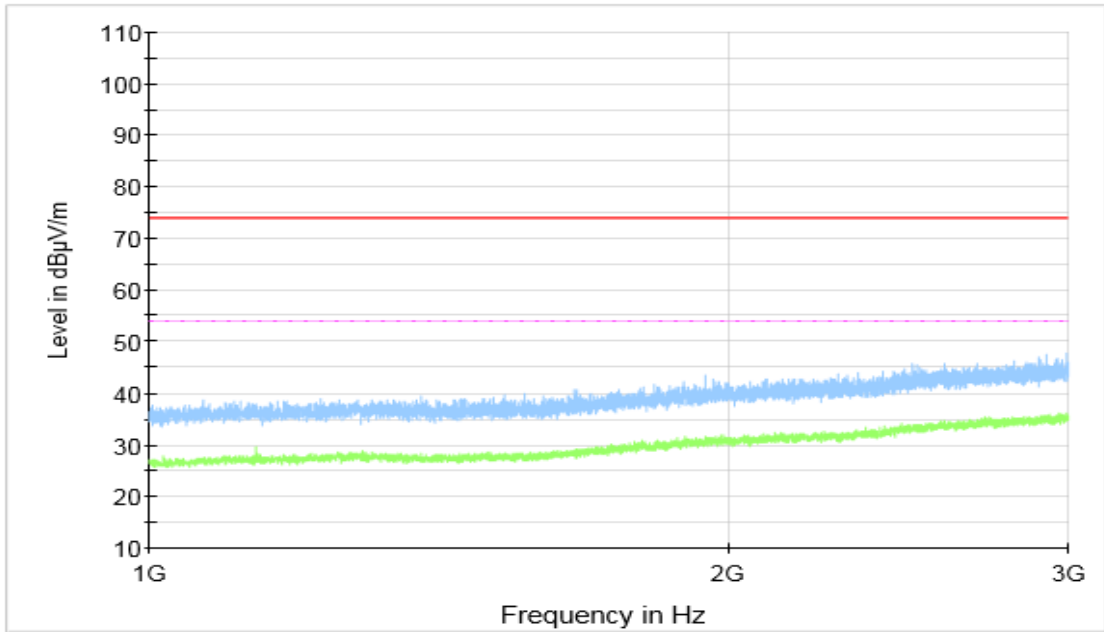


Figure A.1.26. Radiated Emission (GLONASS,1GHz to 3GHz)

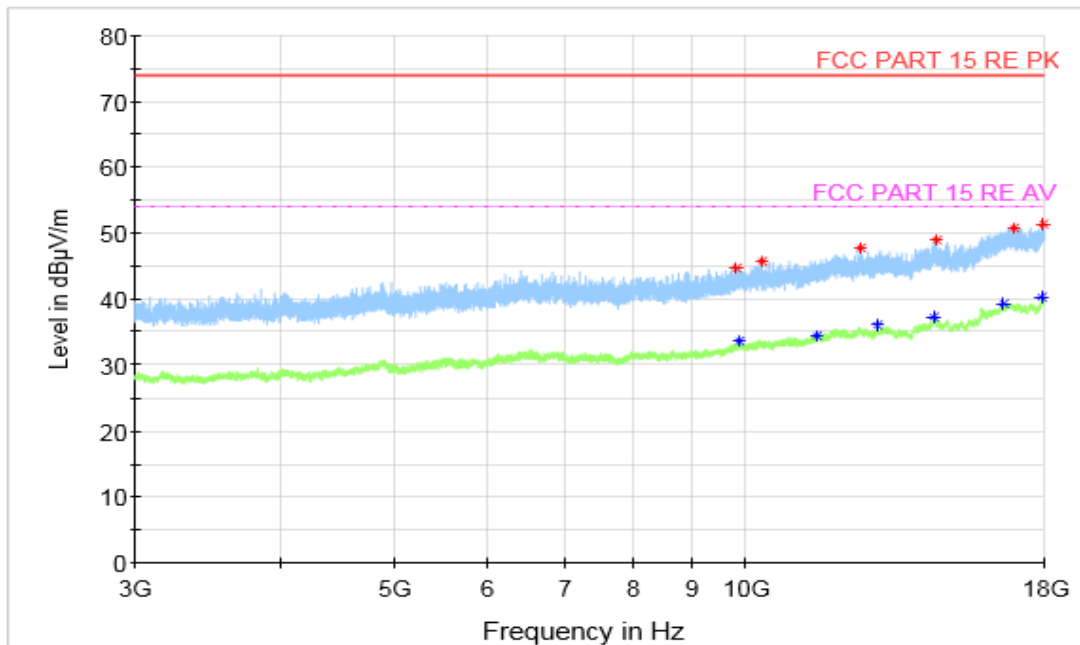


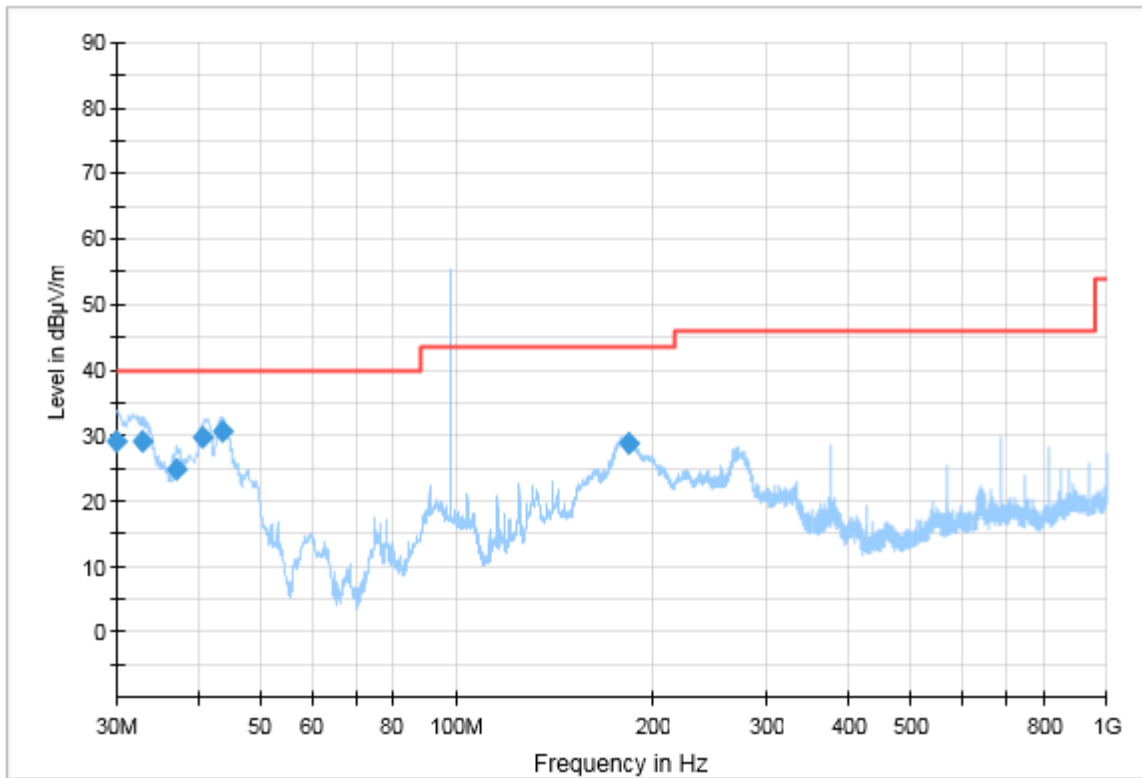
Figure A.1.27. Radiated Emission (GLONASS, 3GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9798.000000	44.82	74.00	29.18	H	4.9	39.92
10318.500000	45.81	74.00	28.19	V	5.6	40.21
12527.500000	47.76	74.00	26.24	V	8.6	39.16
14546.500000	48.88	74.00	25.12	V	11.7	37.18
16941.000000	50.77	74.00	23.23	H	15.8	34.97
17973.000000	51.36	74.00	22.64	V	16.9	34.46

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9880.500000	33.61	54.00	20.39	V	5.4	28.21
11487.000000	34.47	54.00	19.53	H	6.9	27.57
12969.000000	35.99	54.00	18.01	H	9.4	26.59
14462.000000	37.25	54.00	16.75	H	11.8	25.45
16600.000000	39.31	54.00	14.69	V	15.3	24.01
17905.000000	40.32	54.00	13.68	V	17.2	23.12



**Figure A.1.28. Radiated Emission (FM receiver, 30MHz to 1GHz)**

Note: the spike over the limit is coming from the traffic carrier.

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
30.000000	29.07	40.00	10.93	V	-24.1	53.17
32.832778	29.21	40.00	10.79	V	-25.8	55.01
36.985556	24.92	40.00	15.08	V	-27.6	52.52
40.636111	29.84	40.00	10.16	V	-29.5	59.34
43.735556	30.56	40.00	9.44	V	-31.8	62.36
183.885000	28.97	43.50	14.53	H	-33.6	62.57

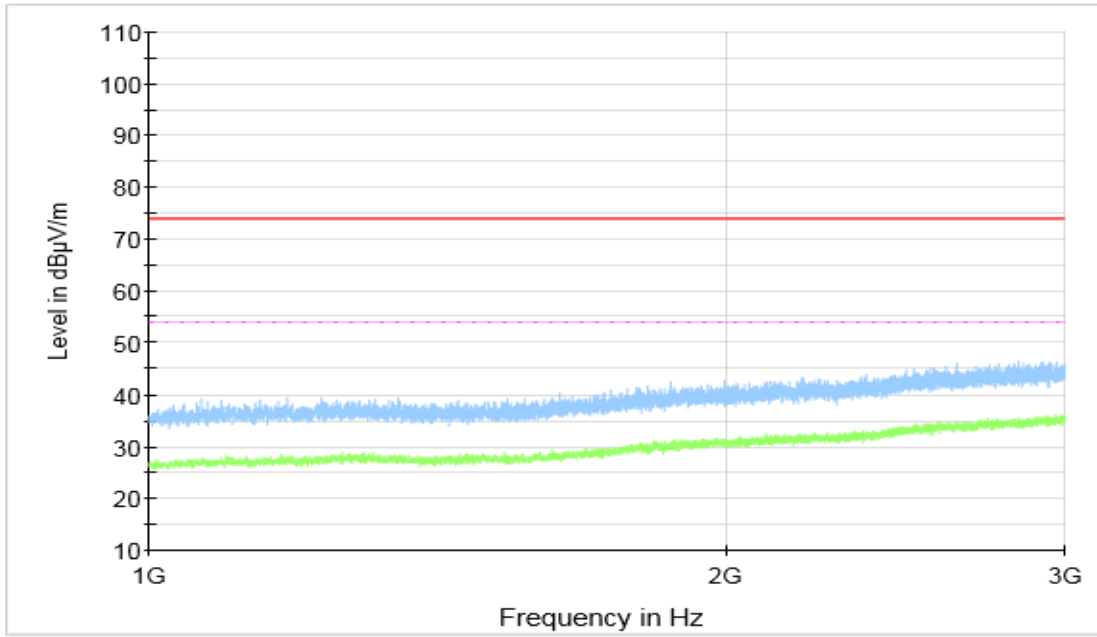


Figure A.1.29. Radiated Emission (FM receiver,1GHz to 3GHz)

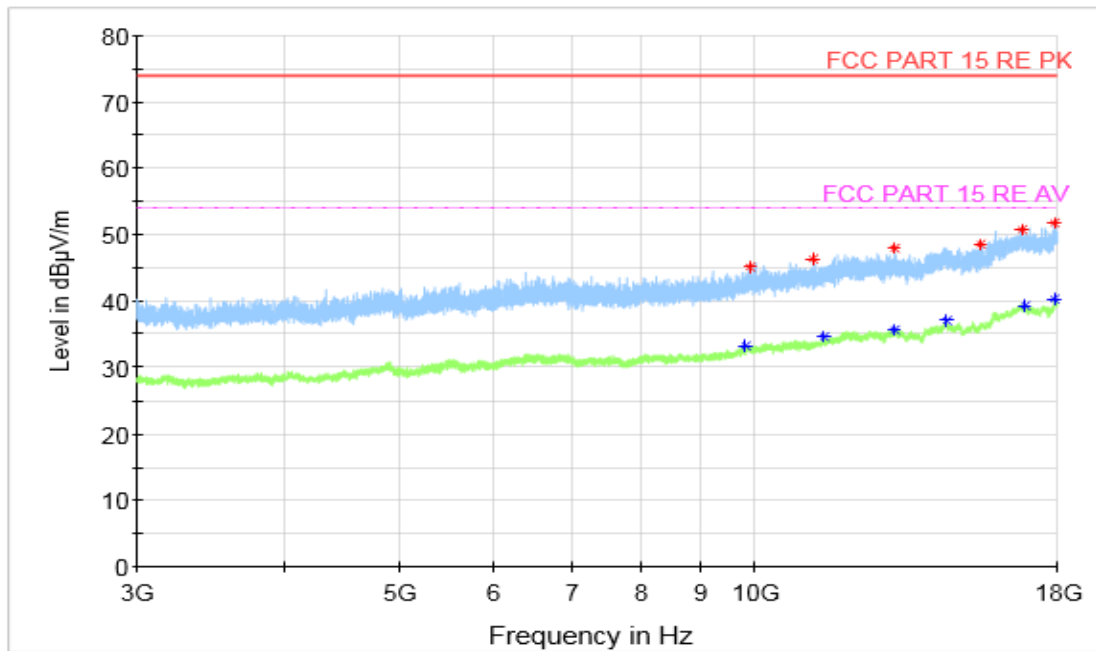


Figure A.1.30. Radiated Emission (FM receiver, 3GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9904.500000	45.08	74.00	28.92	V	5.4	39.68
11201.000000	46.40	74.00	27.60	H	6.0	40.4
13094.500000	47.97	74.00	26.03	H	9.7	38.27
15502.500000	48.47	74.00	25.53	V	12.7	35.77
16822.000000	50.76	74.00	23.24	H	15.9	34.86
17909.000000	51.72	74.00	22.28	V	17.4	34.32

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9800.000000	33.29	54.00	20.71	H	4.8	28.49
11431.000000	34.60	54.00	19.40	H	6.8	27.8
13097.000000	35.77	54.00	18.23	V	9.8	25.97
14519.000000	37.09	54.00	16.91	V	11.7	25.39
16914.000000	39.36	54.00	14.64	V	16.0	23.36
17908.500000	40.23	54.00	13.77	V	17.4	22.83

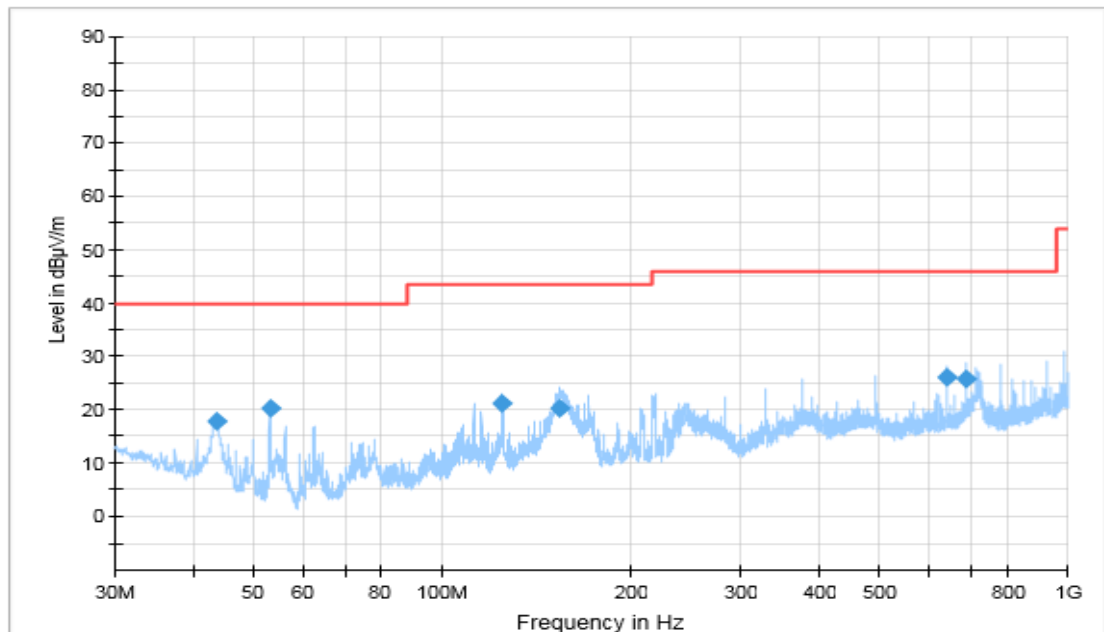


Figure A.1.31. Radiated Emission (Data Transfer : EUT to PC, 30MHz to 1GHz)

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
43.760000	17.89	40.00	22.11	V	-31.8	49.69
53.124444	20.15	40.00	19.85	V	-38.1	58.25
125.012222	21.25	43.50	22.25	V	-31.6	52.85
154.087778	20.31	43.50	23.19	V	-33.5	53.81
638.978333	26.10	46.00	19.90	H	-20.6	46.7
687.518333	25.86	46.00	20.14	V	-19.7	45.56

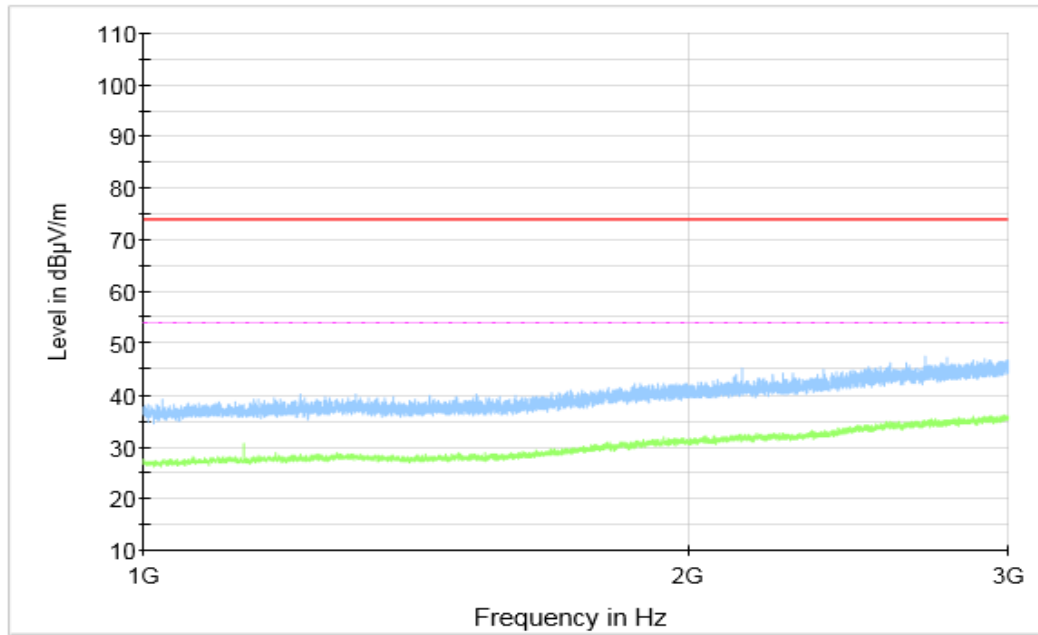


Figure A.1.32. Radiated Emission (Data Transfer : EUT to PC,1GHz to 3GHz)



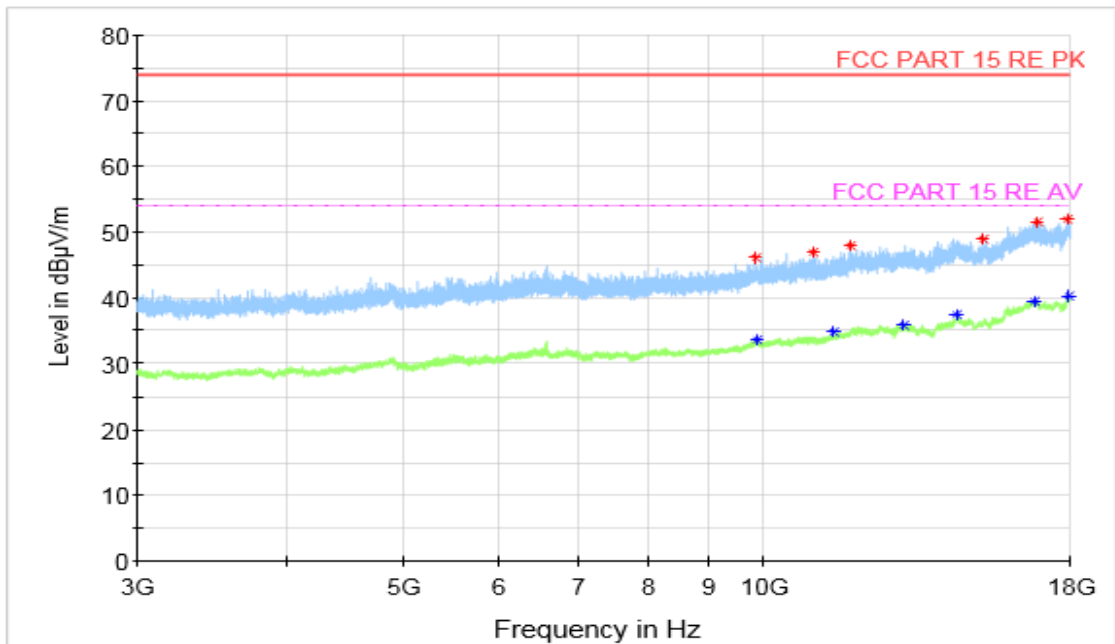


Figure A.1.33. Radiated Emission (Data Transfer : EUT to PC, 3GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9826.000000	46.05	74.00	27.95	V	5.1	40.95
10996.000000	46.89	74.00	27.11	H	5.9	40.99
11809.500000	48.03	74.00	25.97	V	7.7	40.33
15243.000000	49.06	74.00	24.94	H	11.8	37.26
16887.500000	51.54	74.00	22.46	V	16.1	35.44
17880.500000	51.94	74.00	22.06	V	16.8	35.14

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9879.500000	33.74	54.00	20.26	V	5.3	28.44
11432.500000	34.83	54.00	19.17	H	6.8	28.03
13069.500000	35.90	54.00	18.10	H	9.5	26.40
14463.000000	37.41	54.00	16.59	V	11.8	25.61
16781.000000	39.57	54.00	14.43	H	15.9	23.67
17951.500000	40.34	54.00	13.66	H	17.1	23.24

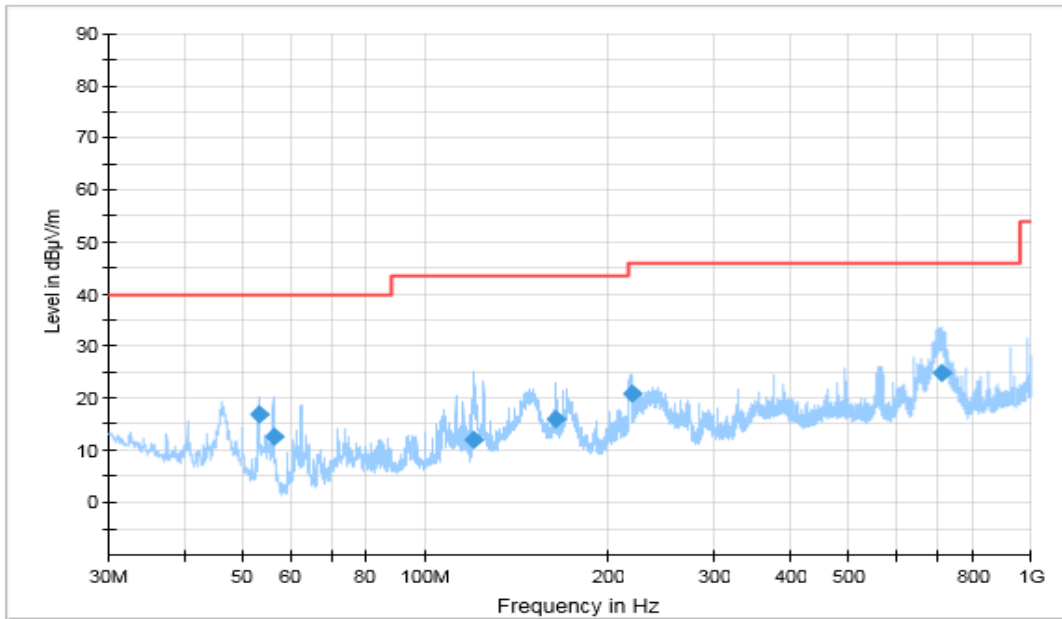


Figure A.1.34. Radiated Emission (Data Transfer : PC to EUT, 30MHz to 1GHz)

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
53.138333	17.03	40.00	22.97	V	-38.1	55.13
56.263889	12.64	40.00	27.36	V	-38.3	50.94
120.313333	11.94	43.50	31.56	V	-31.2	43.14
164.726667	15.87	43.50	27.63	V	-32.6	48.47
219.223889	20.81	46.00	25.19	H	-32.4	53.21
709.331111	24.94	46.00	21.06	H	-19.8	53.21

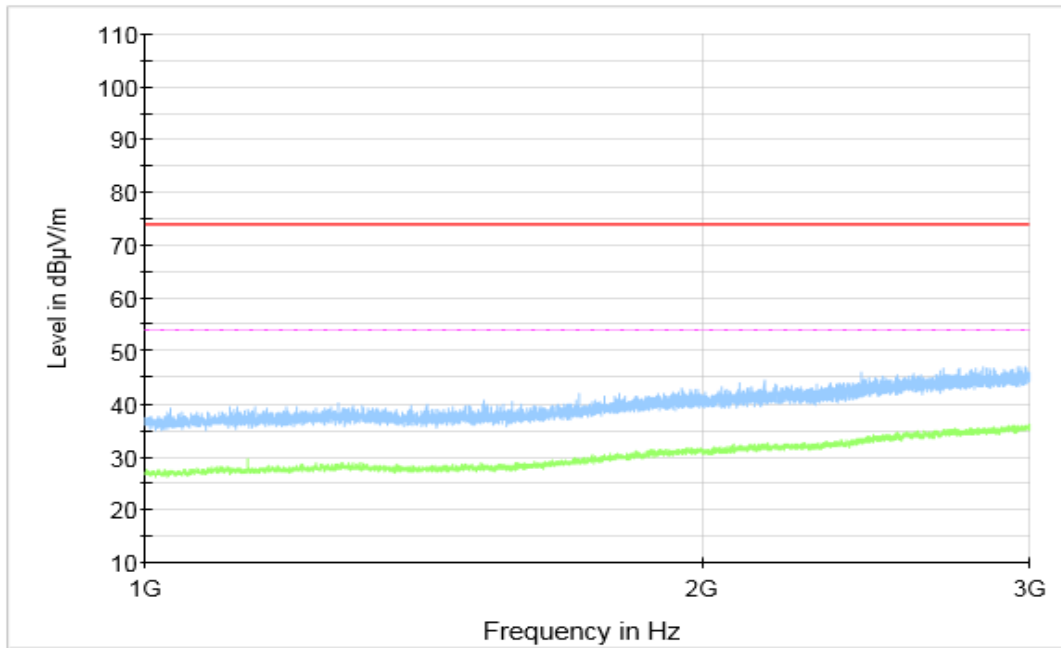


Figure A.1.35. Radiated Emission (Data Transfer : PC to EUT,1GHz to 3GHz)

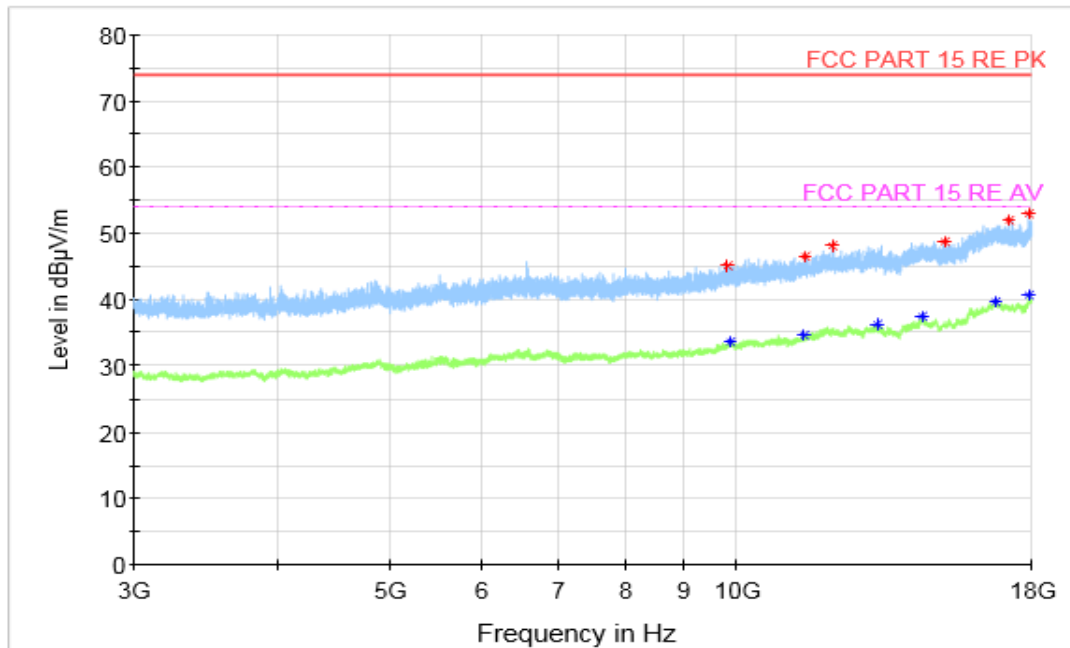


Figure A.1.36. Radiated Emission (Data Transfer : PC to EUT, 3GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9818.500000	45.11	74.00	28.89	H	5.0	40.11
11475.000000	46.59	74.00	27.41	H	6.7	39.89
12098.000000	48.16	74.00	25.84	V	8.2	39.96
15128.000000	48.83	74.00	25.17	V	11.7	37.13
17198.000000	51.94	74.00	22.06	H	15.2	36.74
17906.500000	52.98	74.00	21.02	H	17.3	35.68

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9875.500000	33.56	54.00	20.44	H	5.3	28.26
11421.500000	34.69	54.00	19.31	V	6.6	28.09
13214.500000	36.19	54.00	17.81	H	9.9	26.29
14460.000000	37.38	54.00	16.62	H	11.8	25.58
16757.500000	39.64	54.00	14.36	V	15.6	24.04
17912.000000	40.67	54.00	13.33	H	17.3	23.37

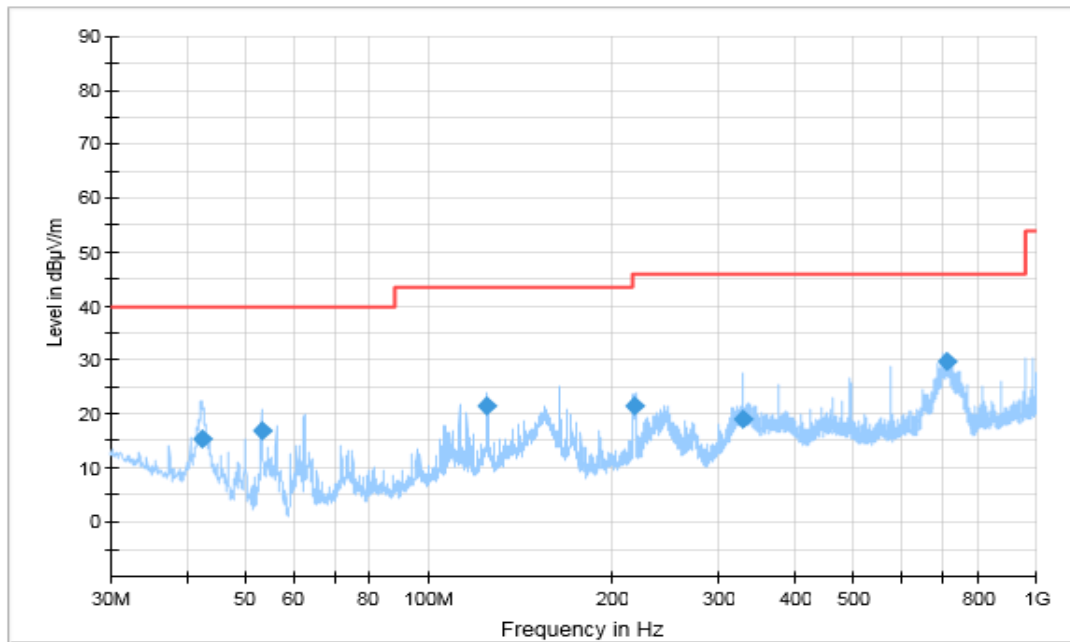


Figure A.1.37. Radiated Emission (Data Transfer : PC to TF Card, 30MHz to 1GHz)

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
42.452778	15.37	40.00	24.63	V	-30.8	46.17
53.124444	16.85	40.00	23.15	V	-38.1	54.95
125.012222	21.65	43.50	21.85	V	-31.6	53.25
217.363889	21.64	46.00	24.36	H	-32.3	53.94
328.712222	19.08	46.00	26.92	H	-28.3	47.38
710.728889	29.64	46.00	16.36	H	-19.7	49.34

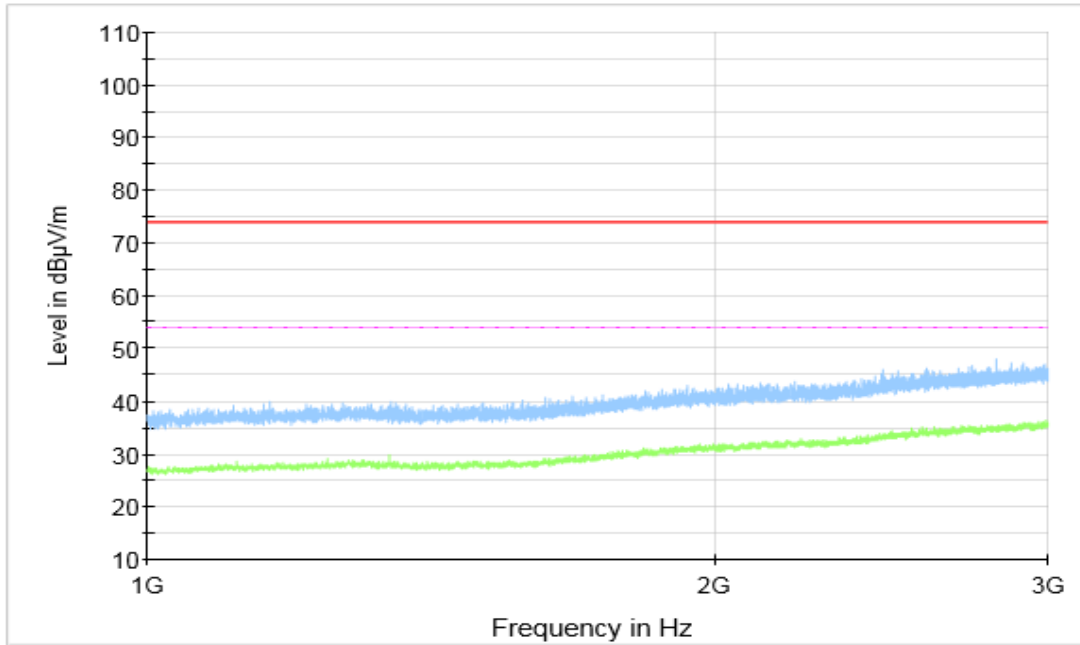


Figure A.1.38. Radiated Emission (Data Transfer : PC to TF Card,1GHz to 3GHz)

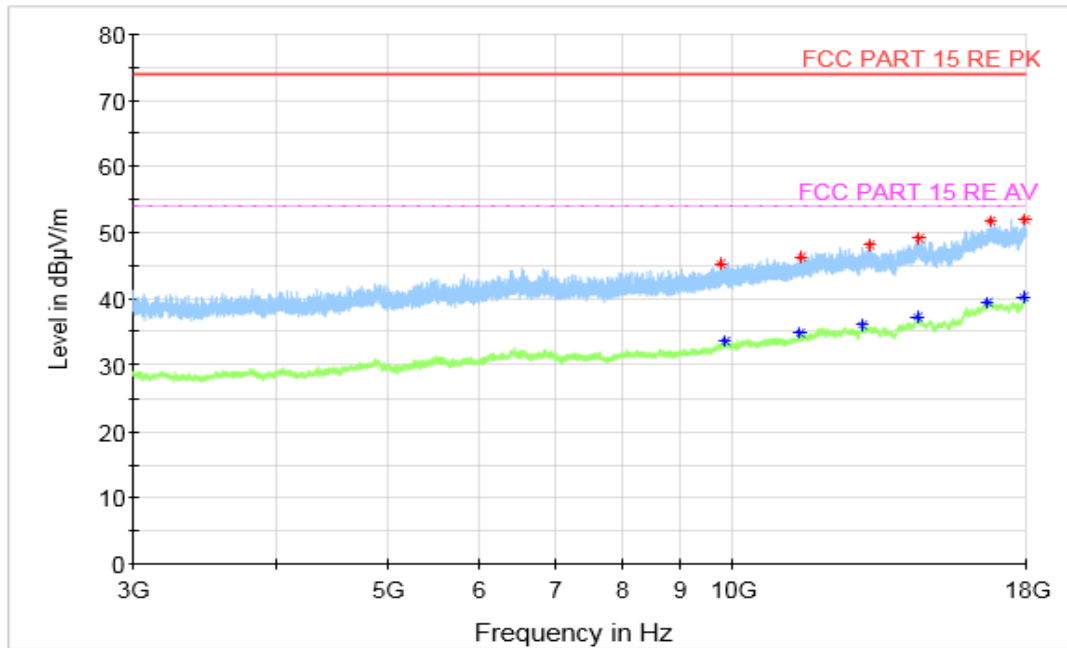


Figure A.1.39. Radiated Emission (Set.8, Data Transfer : PC to TF Card, 3GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9757.500000	45.26	74.00	28.74	V	4.9	40.36
11441.500000	46.31	74.00	27.69	H	6.7	39.61
13141.500000	48.13	74.00	25.87	V	9.6	38.53
14493.000000	49.15	74.00	24.85	H	11.7	37.45
16754.000000	51.80	74.00	22.20	V	15.6	36.2
17929.500000	51.95	74.00	22.05	V	16.8	35.15

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9840.000000	33.65	54.00	20.35	H	5.1	28.55
11435.000000	34.86	54.00	19.14	H	6.8	28.06
12969.000000	36.00	54.00	18.00	V	9.4	26.60
14458.000000	37.21	54.00	16.79	V	11.7	25.51
16665.000000	39.43	54.00	14.57	V	15.4	24.03
17908.500000	40.37	54.00	13.63	V	17.4	22.97

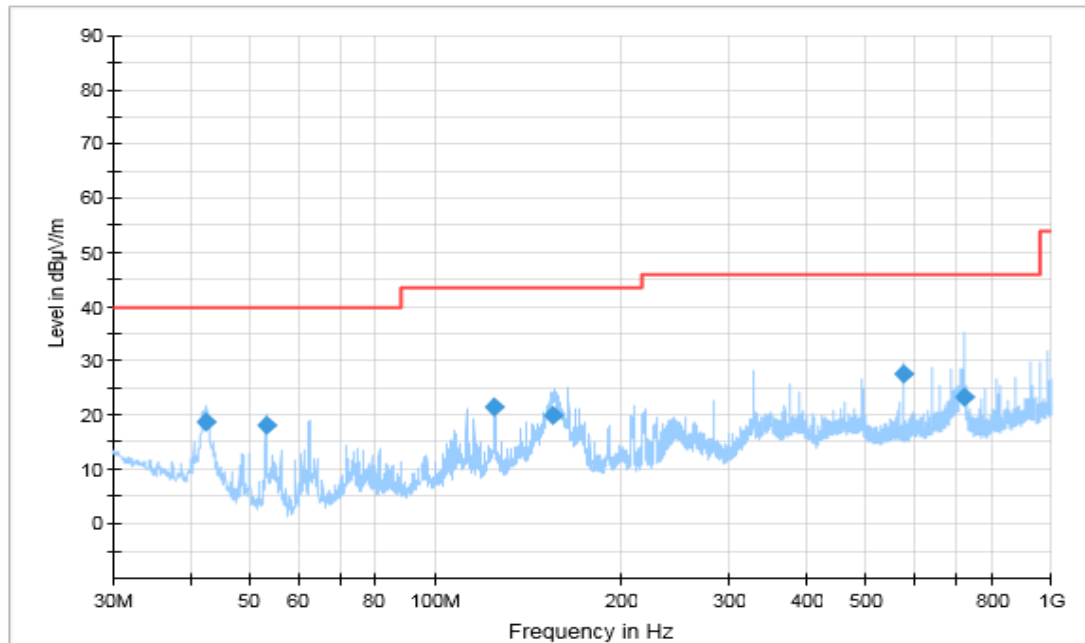


Figure A.1.40. Radiated Emission (Data Transfer : TF Card to PC, 30MHz to 1GHz)

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
42.456111	18.73	40.00	21.27	V	-30.8	49.53
53.124444	18.08	40.00	21.92	V	-38.1	56.18
125.012222	21.45	43.50	22.05	V	-31.6	53.05
154.772778	19.82	43.50	23.68	V	-33.5	53.32
575.982222	27.59	46.00	18.41	V	-22.0	49.59
720.199444	23.28	46.00	22.72	V	-19.0	42.28



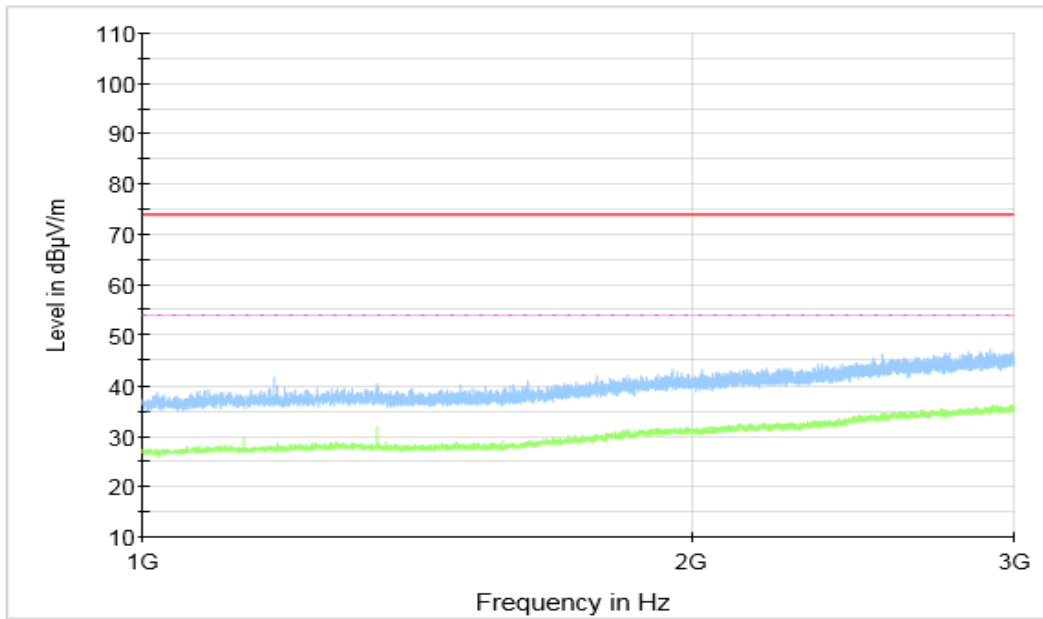


Figure A.1.41. Radiated Emission (Data Transfer : TF Card to PC,1GHz to 3GHz)

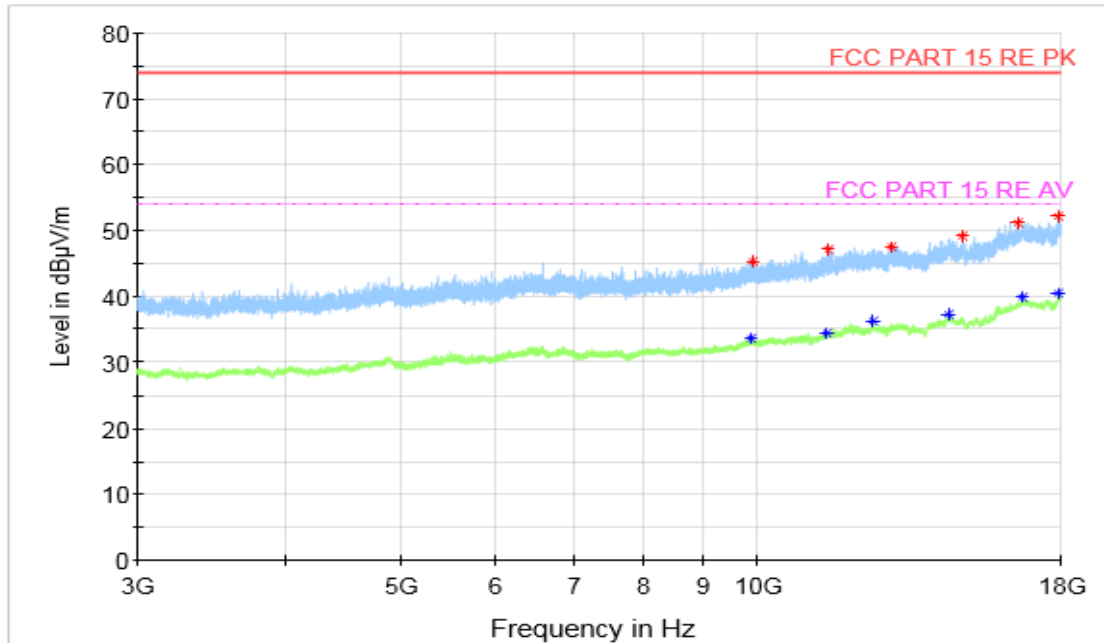


Figure A.1.42. Radiated Emission (Data Transfer : TF Card to PC, 3GHz to 18GHz)

**Final\_Results\_PK**

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9903.500000	45.36	74.00	28.64	V	5.3	40.06
11449.000000	47.09	74.00	26.91	V	6.7	40.39
12969.500000	47.60	74.00	26.40	V	9.4	38.20
14869.000000	49.20	74.00	24.80	V	11.7	37.50
16553.500000	51.10	74.00	22.90	H	15.3	35.8
17878.000000	52.16	74.00	21.84	V	16.9	35.26

**Final\_Results\_AVG**

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9853.500000	33.63	54.00	20.37	V	5.3	28.33
11438.000000	34.50	54.00	19.50	H	6.7	27.8
12484.500000	36.19	54.00	17.81	H	8.9	27.29
14489.000000	37.21	54.00	16.79	V	11.7	25.51
16724.500000	39.88	54.00	14.12	V	15.4	24.48
17910.000000	40.45	54.00	13.55	V	17.4	23.05

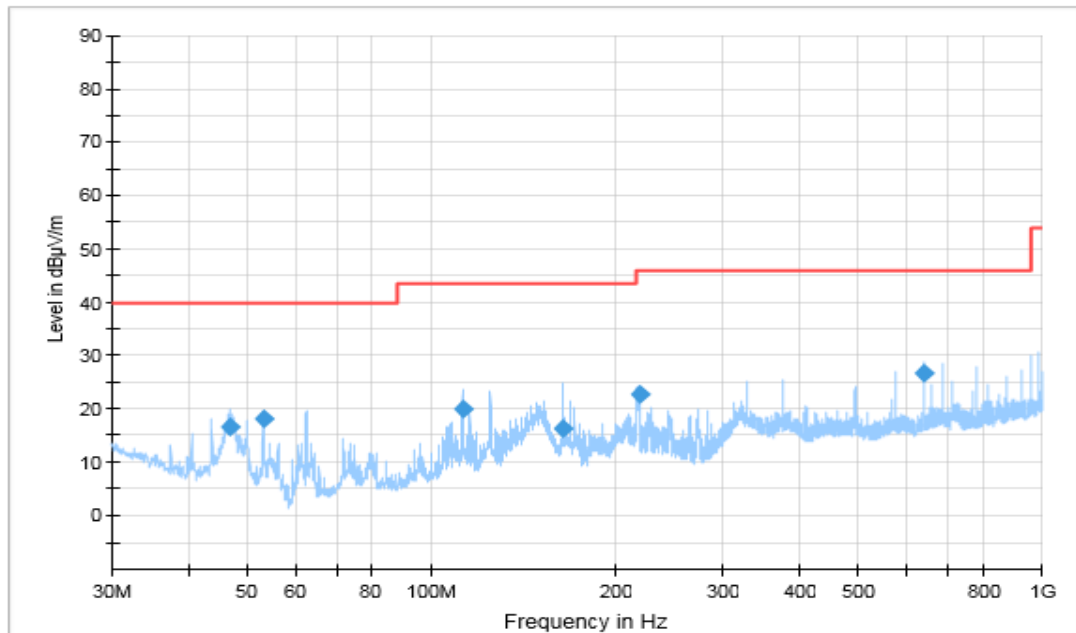


Figure A.1.43. Radiated Emission (Data Transfer : PC to TF Card, 30MHz to 1GHz)

**Final Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
47.007222	16.74	40.00	23.26	V	-34.4	51.14
53.124444	18.06	40.00	21.94	V	-38.1	56.16
112.510000	19.83	43.50	23.67	V	-31.8	51.63
164.726667	16.16	43.50	27.34	V	-32.6	48.76
219.370000	22.69	46.00	23.31	H	-32.4	55.09
638.978333	26.67	46.00	19.33	H	-20.6	47.27

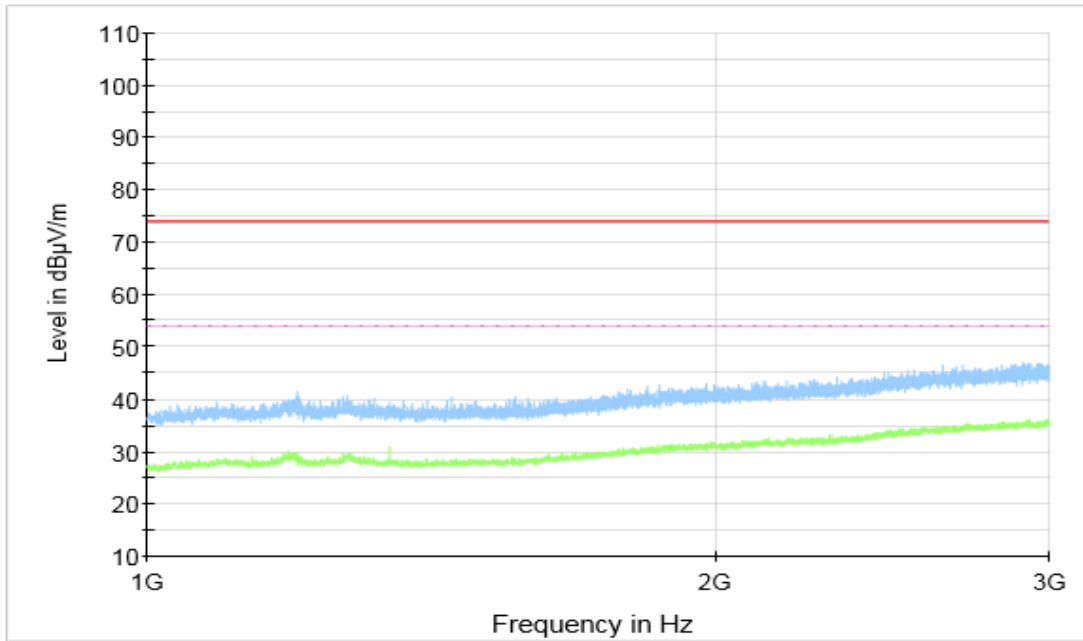


Figure A.1.44. Radiated Emission (Data Transfer : PC to TF Card,1GHz to 3GHz)

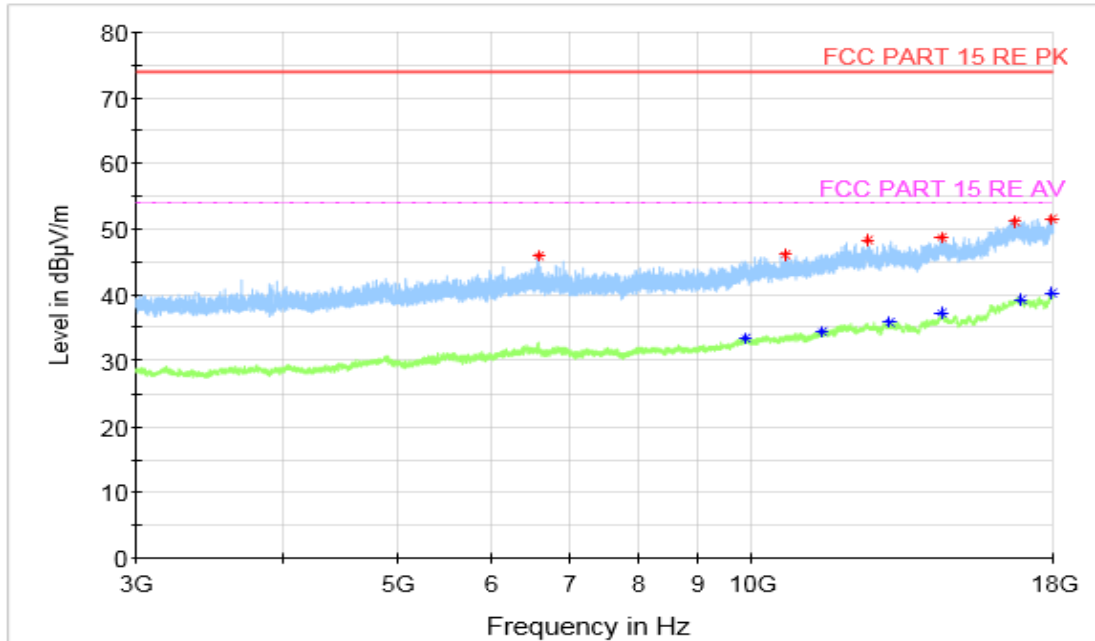


Figure A.1.45. Radiated Emission (Data Transfer : PC to TF Card, 3GHz to 18GHz)

Final\_Results\_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
6588.500000	45.84	74.00	28.16	V	2.7	43.14
10667.500000	46.17	74.00	27.83	V	6.0	40.17
12549.500000	48.27	74.00	25.73	V	8.7	39.57
14458.500000	48.78	74.00	25.22	V	11.7	37.08
16687.500000	51.14	74.00	22.86	V	15.3	35.84
17928.500000	51.57	74.00	22.43	V	16.7	34.87

Final\_Results\_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9881.000000	33.42	54.00	20.58	V	5.4	28.02
11471.000000	34.49	54.00	19.51	V	6.7	27.79
13078.000000	35.81	54.00	18.19	H	9.4	26.41
14466.000000	37.36	54.00	16.64	H	11.7	25.66
16911.000000	39.29	54.00	14.71	H	16.0	23.29
17955.000000	40.34	54.00	13.66	V	17.0	23.34

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