



# TEST REPORT

No.I20N02192-EMC

for

TCL Communication Ltd.

LTE/UMTS/GSM mobile phone

Model Name: 5030M/5130M

With

Hardware Version: FS180-MB-V1.0A

Software Version: 5030M\_OFAR\_1SIM\_V1.0\_20200804\_UNLOCK

FCC ID: 2ACCJB118

Issued Date: 2020-08-19

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 518026.

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> |
|----------------------|-----------------|--------------------|-------------------|
| I20N02192-EMC        | Rev.0           | 1st edition        | 2020-08-19        |

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         | LTE/UMTS/GSM mobile phone |
| Model Name          | 5030M/5130M               |
| Applicant's name    | TCL Communication Ltd.    |
| Manufacturer's Name | TCL Communication Ltd.    |

### 1.2. Test Standards

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

### 1.3. Test Result

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: 2020-08-13

Testing End Date: 2020-08-18

### 1.6. Signature

Liang Yong

(Prepared this test report)

Zhang Yunzhuan

(Reviewed this test report)

Cao Junfei

(Approved this test report)



## **2. ClientInformation**

### **2.1. Applicant Information**

Company Name: TCL Communication Ltd.  
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science  
Park, Shatin, NT, Hong Kong  
Contact: Gong Zhizhou  
E-mail: zhizhou.gong@tcl.com  
Tel: 0086-755-36611722  
Fax: 0086-755-36612000-81722

### **2.2. Manufacturer Information**

Company Name: TCL Communication Ltd.  
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science  
Park, Shatin, NT, Hong Kong  
Contact: Gong Zhizhou  
E-mail: zhizhou.gong@tcl.com  
Tel: 0086-755-36611722  
Fax: 0086-755-36612000-81722

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

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

|                              |                                 |
|------------------------------|---------------------------------|
| Description                  | LTE/UMTS/GSM mobile phone       |
| Model Name                   | 5030M/5130M                     |
| FCC ID                       | 2ACCJB118                       |
| Antenna Type                 | Internal Antenna                |
| Condition of EUT as received | No obvious damage in appearance |

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

GSM850MHz, WCDMA Band 5.

Note: Photographs of EUT are shown in ANNEX A of this test report. 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 |
|---------|-----------------|--------------------|------------------------------------------|--------------|
| UT04aa  | 359203820201090 | FS180-MB-V1<br>.0A | 5030M_OFAR_1SIM_V1.<br>0_20200804_UNLOCK | 2020-08-15   |
| UT06aa  | 359203820201116 | FS180-MB-V1<br>.0A | 5030M_OFAR_1SIM_V1.<br>0_20200804_UNLOCK | 2020-08-15   |

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

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

| AE ID*          | Description        |
|-----------------|--------------------|
| AE1             | LI-Polymer Battery |
| AE2             | Charger            |
| AE3             | Data Cable         |
| AE4             | Stereo Earphone    |
| AE1-1           |                    |
| Model           | TLp038DA           |
| SN              | CAC3860032CA       |
| Manufacturer    | TIANMAO            |
| Capacity        | 4000mAh            |
| Nominal Voltage | 3.85V              |
| AE1-2           |                    |
| Model           | TLp038D7           |
| SN              | CAC3860025C7       |
| Manufacturer    | VENKE              |



|                 |                     |
|-----------------|---------------------|
| Capacity        | 4000mAh             |
| Nominal Voltage | 3.85V               |
| AE2-1           |                     |
| Model           | UC13US/CBA0059AGAC5 |
| Manufacturer    | PUAN                |
| AE2-2           |                     |
| Model           | UC13US/CBA0059AGAC5 |
| Manufacturer    | PUAN                |
| AE3-1           |                     |
| Model           | CDA0000024C8        |
| Manufacturer    | PUAN                |
| AE3-2           |                     |
| Model           | WH15/CCB0046A10C1   |
| Manufacturer    | JUWEI               |
| AE4-1           |                     |
| Model           | WH15/CCB0046A10C1   |
| Manufacturer    | JUWEI               |
| AE4-2           |                     |
| Model           | WH15/CCB0046A10C4   |
| Manufacturer    | MEIHAO              |

\*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. | Combination of EUT and AE      | Remarks            |
|----------------|--------------------------------|--------------------|
| Set.1          | UT06aa+AE1-1+AE2-1+AE3-1+AE4-1 | /                  |
| Set.2          | UT04aa+AE1-2+AE2-2+AE3-2+AE4-2 | /                  |
| Set.3          | UT06aa+AE1-1+AE3-1+AE4-1+PC    | Data Transfer Mode |
| Set.4          | UT04aa+AE1-2+AE3-2+AE4-2+PC    | Data Transfer Mode |

### 3.5. General Description

The Equipment Under Test (EUT) is a model of LTE/UMTS/GSM mobile phone with internal antenna.

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

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

It consists of normal options: Battery, Charger, Data Cable and Stereo Earphone.

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.

LTE/UMTS/GSM Smartphone 5030M manufactured by TCL Communication Ltd. is a variant model based on 5030J for conformance test. According to client's description, the table below shows the difference between model 5030M and 5030J:

| Changes | 5030M           | 5030J          |
|---------|-----------------|----------------|
| Memory  | 128G ROM+4G RAM | 32G ROM+3G RAM |

According to the declaration of differences by manufacturer, the following tests need to be performed at the worst mode from the report of the initial model:

| No. | Test item         | set         | Test Mode                            |
|-----|-------------------|-------------|--------------------------------------|
| 1   | Radiated Emission | Set.1/Set.2 | Charging Mode( Idle;GSM850)          |
|     |                   | Set.1/Set.2 | Charging Mode( Idle;WCDMA B5)        |
|     |                   | Set.1/Set.2 | Charging Mode with Camera Mode       |
|     |                   | Set.1/Set.2 | Charging Mode with Video Player Mode |
|     |                   | Set.1/Set.2 | Charging Mode with FM Mode           |
|     |                   | Set.3/Set.4 | Data Transfer Mode                   |

Other results are cited from the initial report.

The report number for initial model is I20N00391-EMC.

LTE/UMTS/GSM Smartphone 5130M manufactured by TCL Communication Ltd. is a variant model based on 5030M for conformance test. According to client's description, the table below shows the difference between model 5130M and 5030M:

| Changes    | 5130M | 5030M   |
|------------|-------|---------|
| Brand Name | TCL   | Alcatel |

This report is based on the model 5030M for test. According to the declaration of differences by manufacturer, the test results of the model 5130M is cited from the model 5030M, there is no need to add any additional tests.

## 4. Reference Documents

### 4.1. Reference Documents for testing

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

| Reference                 | Title                                                                                                                                      | Version              |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| FCC Part 15,<br>Subpart B | Radio frequency devices                                                                                                                    | 10-1-2019<br>Edition |
| ANSI C63.4                | Methods of Measurement of Radio-Noise Emissions from<br>Low-Voltage Electrical and Electronic Equipment in the<br>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;<br>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. = 30 °C                  |
| Relative humidity        | Min. =20 %, Max. = 75 %                     |
| Shielding effectiveness  | 0.014MHz-1MHz,>60dB;<br>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;<br>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℃  
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 rules | Section in this report | Verdict |
|-------|--------------------|---------------------|------------------------|---------|
| 1     | Radiated Emission  | 15.109(a)           | A.1                    | P       |
| 2     | Conducted Emission | 15.107(a)           | B.2                    | NA      |

### 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       | 4.90dB(k=2)             |
|                   | 1GHz-18GHz       | 4.60dB(k=2)             |
|                   | 18GHz-40GHz      | 4.10dB(k=2)             |

## 8. Test Facilities Utilized

| NO. | NAME              | TYPE          | SERIES NUMBER | PRODUCER     | CAL DUE DATE | CAL PERIOD |
|-----|-------------------|---------------|---------------|--------------|--------------|------------|
| 1.  | Test Receiver     | ESR7          | 101676        | R&S          | 2020.11.27   | 1 year     |
| 2.  | Spectrum Analyzer | FSV40         | 101192        | R&S          | 2021.01.14   | 1 year     |
| 3.  | BiLog Antenna     | 3142E         | 00224831      | ETS-Lindgren | 2021.05.17   | 3 years    |
| 4.  | Horn Antenna      | 3117          | 00066577      | ETS-Lindgren | 2022.04.02   | 3 years    |
| 5.  | Chamber           | FACT3-2.0     | 1285          | ETS-Lindgren | 2021.07.19   | 2 years    |
| 6.  | Software          | EMC32         | V10.01.00     | R&S          | /            | /          |
| 7.  | PC                | ThinkPad T480 | PF-13LW0C     | Lenovo       | /            | /          |
| 8.  | Printer           | P1008         | VNF6C12491    | HP           | /            | /          |
| 9.  | 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 Mode:** The EUT is connected to a charger for charging and open FM function.

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

**Data Transfer Mode:** 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.

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

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

#### **A.1.3 Measurement Limit**

Limit from CFR Part 15.109(a)

| Frequency range<br>(MHz) | Field strength limit (μV/m) |         |      |
|--------------------------|-----------------------------|---------|------|
|                          | Quasi-peak                  | Average | Peak |
| 30-88                    | 100                         |         |      |
| 88-216                   | 150                         |         |      |
| 216-960                  | 200                         |         |      |
| 960-1000                 | 500                         |         |      |
| >1000                    |                             | 500     | 5000 |

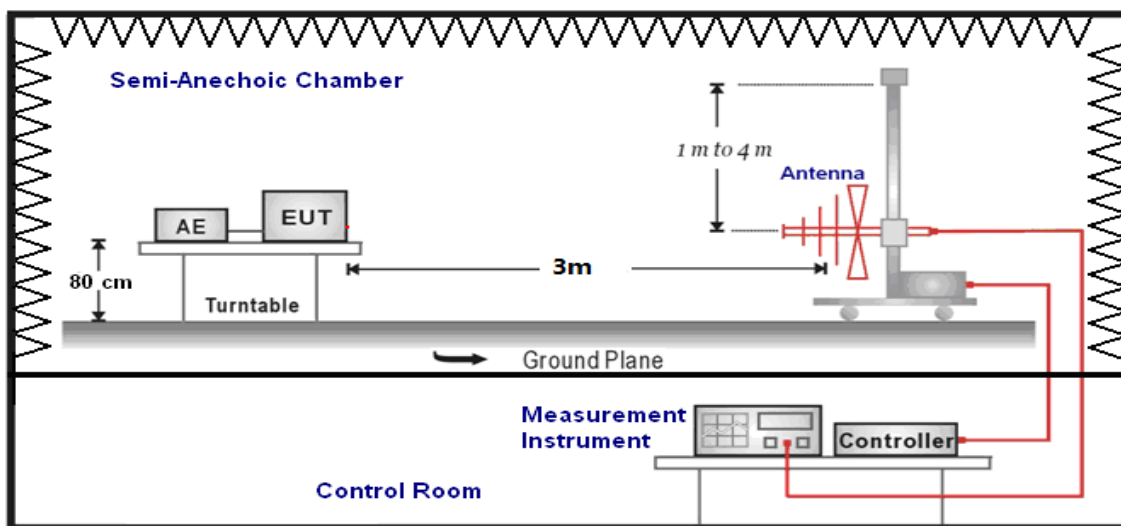
\*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

#### A.1.4 Test Condition

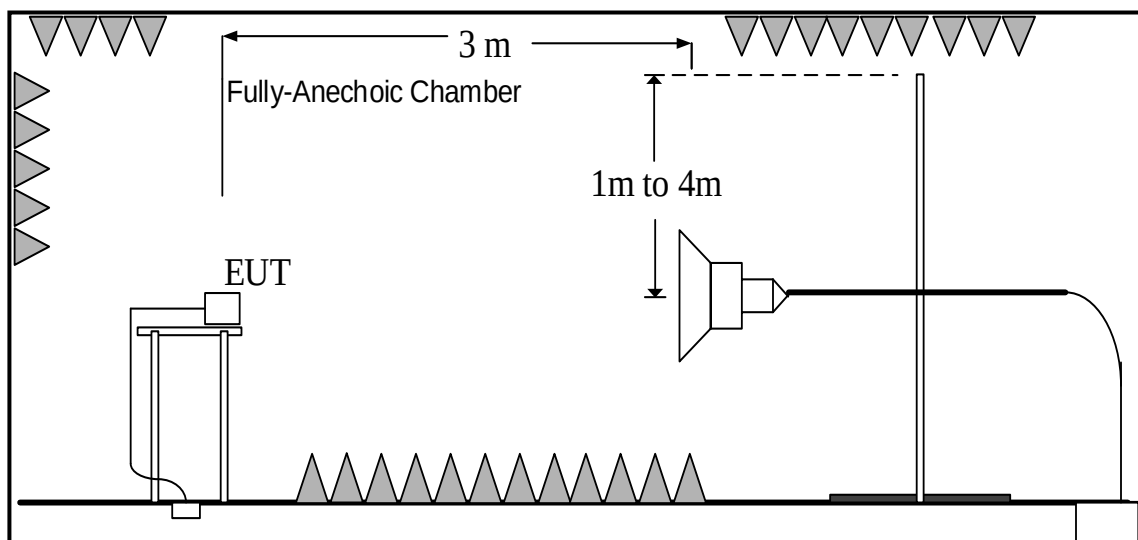
| Frequency of emission (MHz) | RBW/VBW               | Sweep Time(s) |
|-----------------------------|-----------------------|---------------|
| 30-1000                     | 120kHz (IF bandwidth) | 5             |
| Above 1000                  | 1MHz/3MHz             | 15            |

#### 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:

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

Where

$G_A$ : Antenna factor of receive antenna

$G_{\text{PL}}$ : Path Loss

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

Result: Quasi-Peak(dBμV/m) / Average(dBμV/m)/Peak(dBμV/m)

Note: the result contains vertical part and Horizontal part

Charging and GSM850MHz idle

| Frequency range (MHz) | Quasi-Peak Limit (dBμV/m) | Result (dBμV/m) Set.1 | Conclusion |
|-----------------------|---------------------------|-----------------------|------------|
| 30-88                 | 40                        | See Figure A.1        | P          |
| 88-216                | 44                        |                       |            |
| 216-960               | 46                        |                       |            |
| 960-1000              | 54                        |                       |            |

| Frequency range (MHz) | Average Limit (dBμV/m) | Peak Limit (dBμV/m) | Result (dBμV/m) Set.1 | Conclusion |
|-----------------------|------------------------|---------------------|-----------------------|------------|
| 1000 to 3000          | 54                     | 74                  | See Figure A.2        | P          |
| 3000 to 18000         |                        |                     | See Figure A.3        | P          |

Charging and WCDMA Band 5 idle

| Frequency range (MHz) | Quasi-Peak Limit (dBμV/m) | Result (dBμV/m) Set.1 | Conclusion |
|-----------------------|---------------------------|-----------------------|------------|
| 30-88                 | 40                        | See Figure A.4        | P          |
| 88-216                | 44                        |                       |            |
| 216-960               | 46                        |                       |            |
| 960-1000              | 54                        |                       |            |

| Frequency range (MHz) | Average Limit (dBμV/m) | Peak Limit (dBμV/m) | Result (dBμV/m) Set.1 | Conclusion |
|-----------------------|------------------------|---------------------|-----------------------|------------|
| 1000 to 3000          | 54                     | 74                  | See Figure A.5        | P          |
| 3000 to 18000         |                        |                     | See Figure A.6        | P          |

## Charging and GSM850MHz idle

| Frequency range (MHz) | Quasi-Peak Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) Set.2 | Conclusion |
|-----------------------|---------------------------------|-----------------------------|------------|
| 30-88                 | 40                              | See Figure A.7              | P          |
| 88-216                | 44                              |                             |            |
| 216-960               | 46                              |                             |            |
| 960-1000              | 54                              |                             |            |

| Frequency range (MHz) | Average Limit (dB $\mu$ V/m) | Peak Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|-----------------------|------------------------------|---------------------------|-----------------------|------------|
|                       |                              |                           | Set.2                 |            |
| 1000 to 3000          | 54                           | 74                        | See Figure A.8        | P          |
| 3000 to 18000         |                              |                           | See Figure A.9        | P          |

## Camera Mode

| Frequency range (MHz) | Quasi-Peak Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|-----------------------|---------------------------------|-----------------------|------------|
|                       |                                 | Set.1                 |            |
| 30-88                 | 40                              | See Figure A.10       | P          |
| 88-216                | 44                              |                       |            |
| 216-960               | 46                              |                       |            |
| 960-1000              | 54                              |                       |            |

| Frequency range (MHz) | Average Limit (dB $\mu$ V/m) | Peak Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|-----------------------|------------------------------|---------------------------|-----------------------|------------|
|                       |                              |                           | Set.1                 |            |
| 1000 to 3000          | 54                           | 74                        | See Figure A.11       | P          |
| 3000 to 18000         |                              |                           | See Figure A.12       | P          |

## FM Mode

| Frequency range (MHz) | Quasi-Peak Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|-----------------------|---------------------------------|-----------------------|------------|
|                       |                                 | Set.1                 |            |
| 30-88                 | 40                              | See Figure A.13       | P          |
| 88-216                | 44                              |                       |            |
| 216-960               | 46                              |                       |            |
| 960-1000              | 54                              |                       |            |

| Frequency range (MHz) | Average Limit (dB $\mu$ V/m) | Peak Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|-----------------------|------------------------------|---------------------------|-----------------------|------------|
|                       |                              |                           | Set.1                 |            |
| 1000 to 3000          | 54                           | 74                        | See Figure A.14       | P          |
| 3000 to 18000         |                              |                           | See Figure A.15       | P          |

## FM Mode

| Frequency range<br>(MHz) | Quasi-Peak<br>Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|--------------------------|------------------------------------|-----------------------|------------|
|                          |                                    | Set.2                 |            |
| 30-88                    | 40                                 | See Figure A.16       | P          |
| 88-216                   | 44                                 |                       |            |
| 216-960                  | 46                                 |                       |            |
| 960-1000                 | 54                                 |                       |            |

| Frequency range<br>(MHz) | Average<br>Limit (dB $\mu$ V/m) | Peak<br>Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|--------------------------|---------------------------------|------------------------------|-----------------------|------------|
|                          |                                 |                              | Set.2                 |            |
| 1000 to 3000             | 54                              | 74                           | See Figure A.17       | P          |
| 3000 to 18000            |                                 |                              | See Figure A.18       | P          |

## Data Transfer Mode: EUT to PC

| Frequency range<br>(MHz) | Quasi-Peak<br>Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|--------------------------|------------------------------------|-----------------------|------------|
|                          |                                    | Set.3                 |            |
| 30-88                    | 40                                 | See Figure A.19       | P          |
| 88-216                   | 44                                 |                       |            |
| 216-960                  | 46                                 |                       |            |
| 960-1000                 | 54                                 |                       |            |

| Frequency range<br>(MHz) | Average<br>Limit (dB $\mu$ V/m) | Peak<br>Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|--------------------------|---------------------------------|------------------------------|-----------------------|------------|
|                          |                                 |                              | Set.3                 |            |
| 1000 to 3000             | 54                              | 74                           | See Figure A.20       | P          |
| 3000 to 18000            |                                 |                              | See Figure A.21       | P          |

## Data Transfer Mode: PC to EUT

| Frequency range<br>(MHz) | Quasi-Peak<br>Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|--------------------------|------------------------------------|-----------------------|------------|
|                          |                                    | Set.3                 |            |
| 30-88                    | 40                                 | See Figure A.22       | P          |
| 88-216                   | 44                                 |                       |            |
| 216-960                  | 46                                 |                       |            |
| 960-1000                 | 54                                 |                       |            |

| Frequency range<br>(MHz) | Average<br>Limit (dB $\mu$ V/m) | Peak<br>Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|--------------------------|---------------------------------|------------------------------|-----------------------|------------|
|                          |                                 |                              | Set.3                 |            |
| 1000 to 3000             | 54                              | 74                           | See Figure A.23       | P          |
| 3000 to 18000            |                                 |                              | See Figure A.24       | P          |

## Data Transfer Mode: PC to TF Card

| Frequency range<br>(MHz) | Quasi-Peak<br>Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|--------------------------|------------------------------------|-----------------------|------------|
|                          |                                    | Set.3                 |            |
| 30-88                    | 40                                 | See Figure A.25       | P          |
| 88-216                   | 44                                 |                       |            |
| 216-960                  | 46                                 |                       |            |
| 960-1000                 | 54                                 |                       |            |

| Frequency range<br>(MHz) | Average<br>Limit (dB $\mu$ V/m) | Peak<br>Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|--------------------------|---------------------------------|------------------------------|-----------------------|------------|
|                          |                                 |                              | Set.3                 |            |
| 1000 to 3000             | 54                              | 74                           | See Figure A.26       | P          |
| 3000 to 18000            |                                 |                              | See Figure A.27       | P          |

## Data Transfer Mode: TF Card to PC

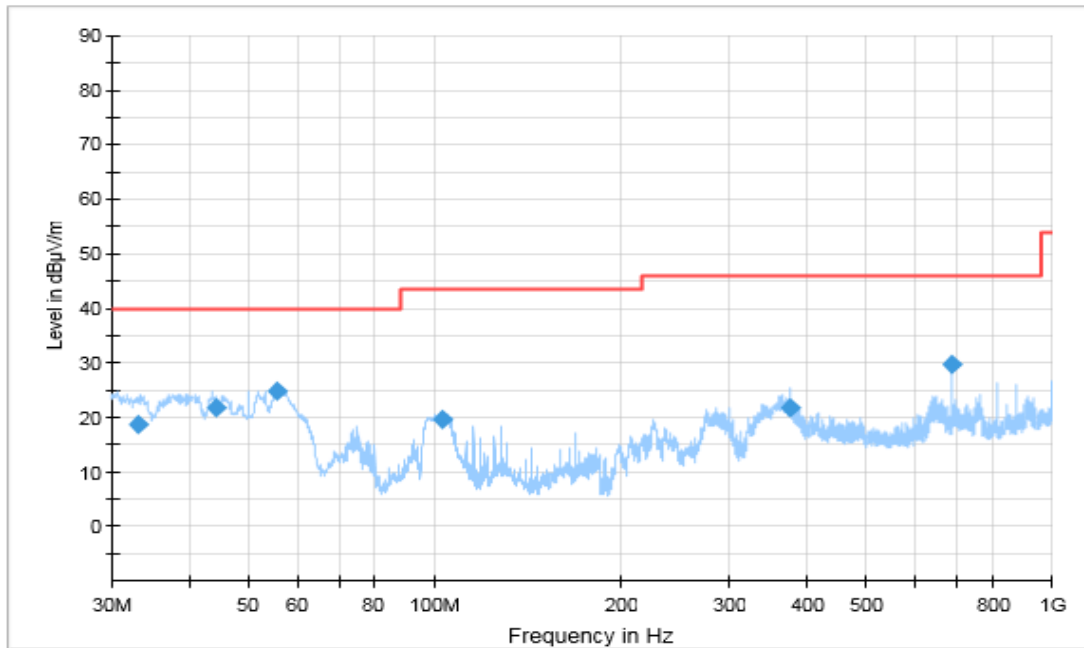
| Frequency range<br>(MHz) | Quasi-Peak<br>Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|--------------------------|------------------------------------|-----------------------|------------|
|                          |                                    | Set.3                 |            |
| 30-88                    | 40                                 | See Figure A.28       | P          |
| 88-216                   | 44                                 |                       |            |
| 216-960                  | 46                                 |                       |            |
| 960-1000                 | 54                                 |                       |            |

| Frequency range<br>(MHz) | Average<br>Limit (dB $\mu$ V/m) | Peak<br>Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|--------------------------|---------------------------------|------------------------------|-----------------------|------------|
|                          |                                 |                              | Set.3                 |            |
| 1000 to 3000             | 54                              | 74                           | See Figure A.29       | P          |
| 3000 to 18000            |                                 |                              | See Figure A.30       | P          |

## Data Transfer Mode: EUT Card to PC

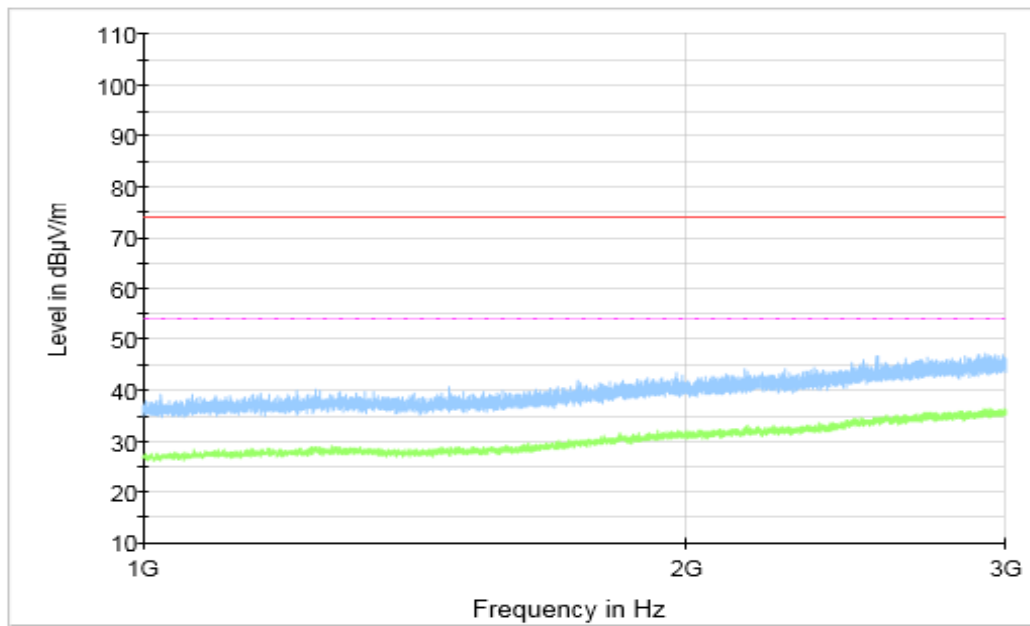
| Frequency range<br>(MHz) | Quasi-Peak<br>Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|--------------------------|------------------------------------|-----------------------|------------|
|                          |                                    | Set.4                 |            |
| 30-88                    | 40                                 | See Figure A.31       | P          |
| 88-216                   | 44                                 |                       |            |
| 216-960                  | 46                                 |                       |            |
| 960-1000                 | 54                                 |                       |            |

| Frequency range<br>(MHz) | Average<br>Limit (dB $\mu$ V/m) | Peak<br>Limit (dB $\mu$ V/m) | Result (dB $\mu$ V/m) | Conclusion |
|--------------------------|---------------------------------|------------------------------|-----------------------|------------|
|                          |                                 |                              | Set.4                 |            |
| 1000 to 3000             | 54                              | 74                           | See Figure A.32       | P          |
| 3000 to 18000            |                                 |                              | See Figure A.33       | P          |

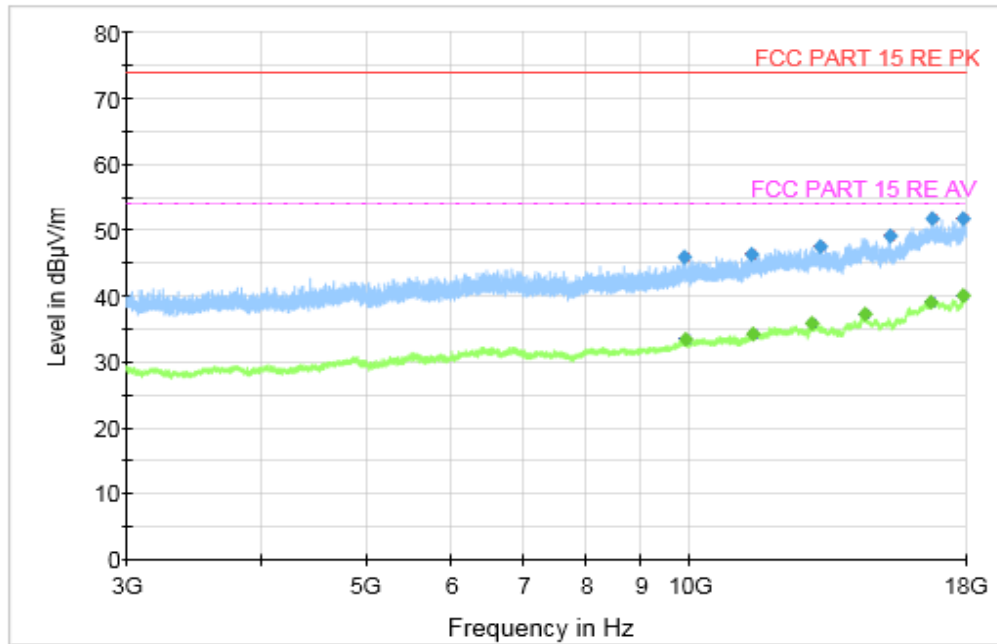


**Figure A.1 Radiated Emission (Set.1, Charging and GSM850MHz idle, 30MHz to 1GHz)**  
**Final\_Result**

| Frequency<br>(MHz) | QuasiPeak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Pol | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|--------------------|-----------------------|-------------------|----------------|-----|----------------|----------------------------|
| 33.223889          | 18.72                 | 40.00             | 21.28          | V   | -25.9          | 44.62                      |
| 44.232778          | 21.94                 | 40.00             | 18.06          | V   | -32.0          | 53.94                      |
| 55.657222          | 24.89                 | 40.00             | 15.11          | V   | -38.5          | 63.39                      |
| 103.185556         | 19.63                 | 43.50             | 23.87          | V   | -32.4          | 52.03                      |
| 375.016667         | 21.75                 | 46.00             | 24.25          | H   | -26.7          | 48.45                      |
| 687.518333         | 29.76                 | 46.00             | 16.24          | V   | -19.7          | 49.46                      |



**Figure A.2 Radiated Emission (Set.1, Charging and GSM850MHz idle, 1GHz to 3GHz)**



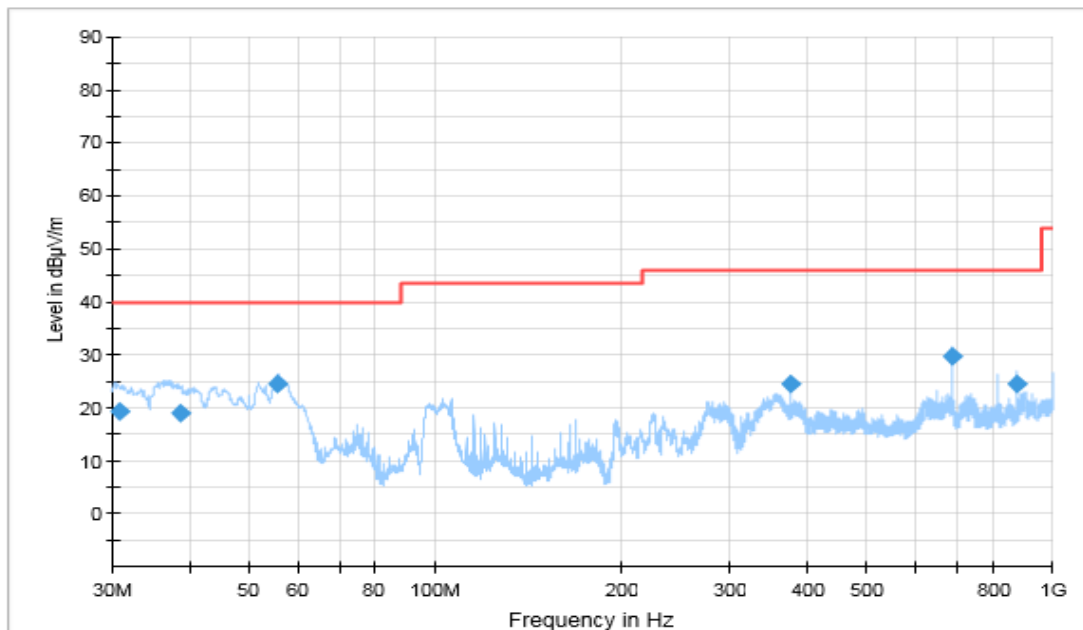
**Figure A.3 Radiated Emission (Set.1, Charging and GSM850MHz idle, 3GHz to 18GHz)**

#### Final\_Results\_PK

| Frequency(MHz) | Peak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|------------------|-------------------|------------|----------|----------------|----------------------------|
| 9856.000000    | 45.88            | 74.00             | 28.12      | V        | 5.3            | 40.58                      |
| 11390.500000   | 46.43            | 74.00             | 27.57      | V        | 6.6            | 39.83                      |
| 13190.500000   | 47.49            | 74.00             | 26.51      | H        | 9.8            | 37.69                      |
| 15305.000000   | 49.12            | 74.00             | 24.88      | H        | 12.1           | 37.02                      |
| 16731.000000   | 51.84            | 74.00             | 22.16      | V        | 15.4           | 36.44                      |
| 17918.000000   | 51.74            | 74.00             | 22.26      | H        | 17.0           | 34.74                      |

#### Final\_Results\_AVG

| Frequency(MHz) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|---------------------|-------------------|------------|----------|----------------|----------------------------|
| 9886.500000    | 33.43               | 54.00             | 20.57      | H        | 5.3            | 28.13                      |
| 11427.000000   | 34.26               | 54.00             | 19.74      | V        | 6.7            | 27.56                      |
| 12943.000000   | 35.91               | 54.00             | 18.09      | H        | 9.4            | 26.51                      |
| 14501.000000   | 37.19               | 54.00             | 16.81      | H        | 11.7           | 25.49                      |
| 16694.000000   | 39.15               | 54.00             | 14.85      | H        | 15.4           | 23.75                      |
| 17908.000000   | 40.13               | 54.00             | 13.87      | H        | 17.4           | 22.73                      |



**Figure A.4 Radiated Emission (Set.1, Charging and WCDMA Band 5 idle, 30MHz to 1GHz)**

#### Final\_Result

| Frequency<br>(MHz) | QuasiPeak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Pol | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|--------------------|-----------------------|-------------------|----------------|-----|----------------|----------------------------|
| 30.871667          | 19.39                 | 40.00             | 20.61          | V   | -25.0          | 44.39                      |
| 38.720556          | 19.14                 | 40.00             | 20.86          | V   | -29.0          | 48.14                      |
| 55.538889          | 24.68                 | 40.00             | 15.32          | V   | -38.5          | 63.18                      |
| 375.016667         | 24.47                 | 46.00             | 21.53          | H   | -26.7          | 51.17                      |
| 687.518333         | 29.90                 | 46.00             | 16.10          | V   | -19.7          | 49.6                       |
| 875.011667         | 24.41                 | 46.00             | 21.59          | V   | -17.9          | 42.31                      |

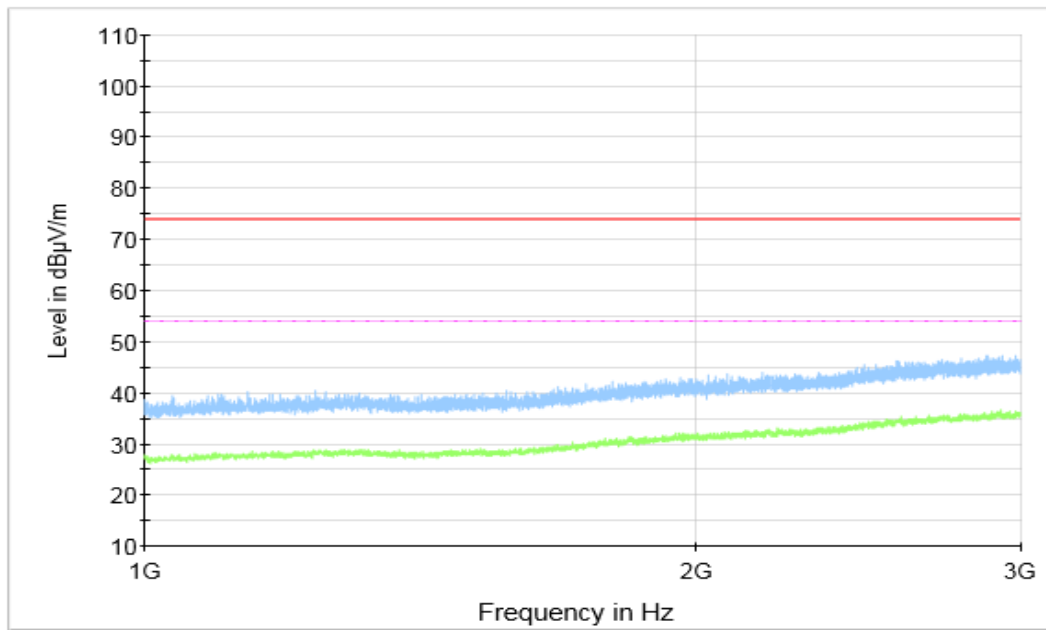
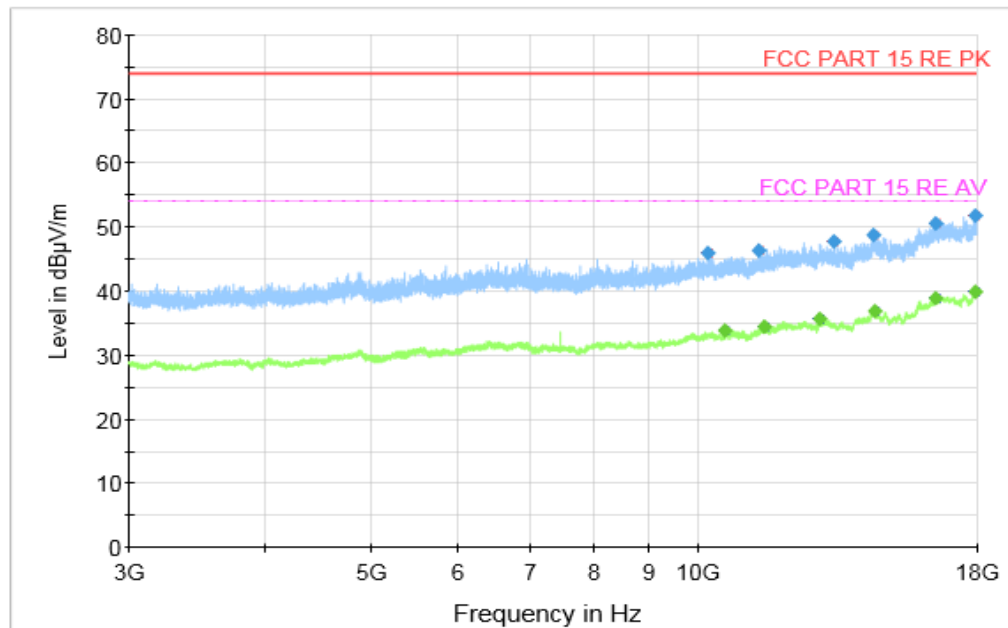


Figure A.5 Radiated Emission (Set.1, Charging and WCDMA Band 5 idle, 1GHz to 3GHz)



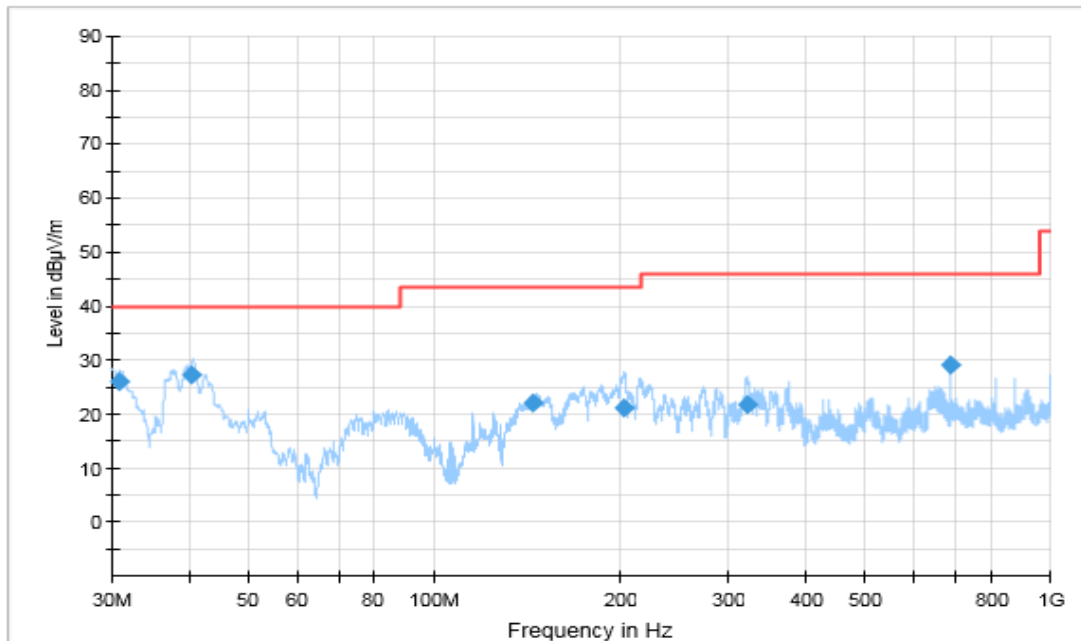
**Figure A.6 Radiated Emission (Set.1, Charging and WCDMA Band 5 idle, 3GHz to 18GHz)**

#### Final\_Results\_PK

| Frequency(MHz) | Peak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|------------------|-------------------|------------|----------|----------------|----------------------------|
| 10185.000000   | 45.98            | 74.00             | 28.02      | V        | 5.4            | 40.58                      |
| 11342.500000   | 46.28            | 74.00             | 27.72      | H        | 6.5            | 39.78                      |
| 13305.500000   | 47.66            | 74.00             | 26.34      | V        | 9.7            | 37.96                      |
| 14490.500000   | 48.74            | 74.00             | 25.26      | V        | 11.7           | 37.04                      |
| 16511.500000   | 50.57            | 74.00             | 23.43      | V        | 15.3           | 35.27                      |
| 17948.500000   | 51.75            | 74.00             | 22.25      | H        | 17.2           | 34.55                      |

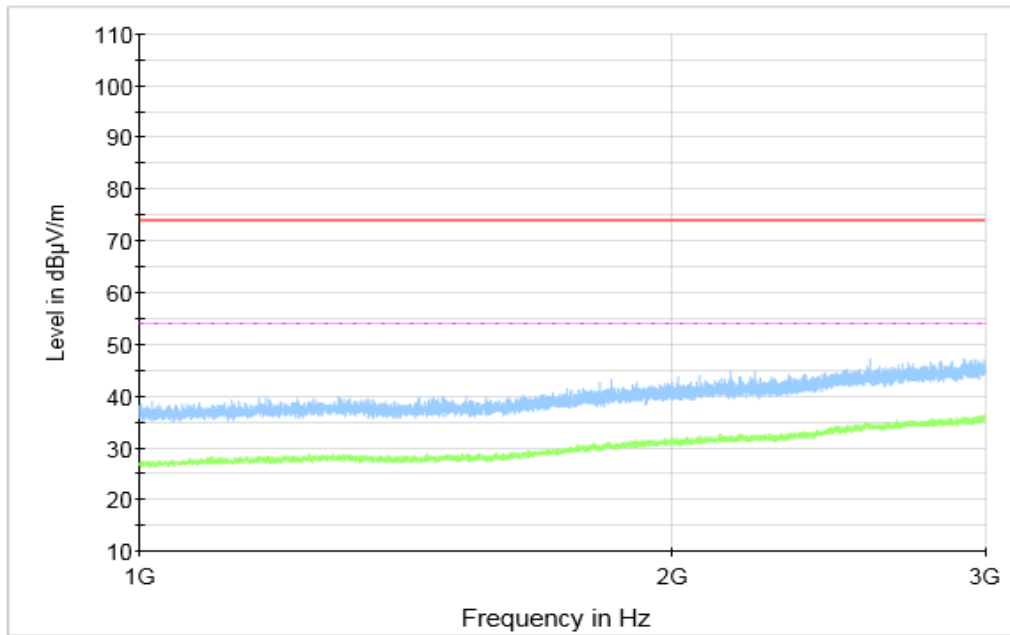
#### Final\_Results\_AVG

| Frequency(MHz) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|---------------------|-------------------|------------|----------|----------------|----------------------------|
| 10577.000000   | 33.77               | 54.00             | 20.23      | V        | 5.6            | 28.17                      |
| 11487.000000   | 34.38               | 54.00             | 19.62      | H        | 6.9            | 27.48                      |
| 12915.500000   | 35.63               | 54.00             | 18.37      | H        | 9.4            | 26.23                      |
| 14502.500000   | 36.94               | 54.00             | 17.06      | H        | 11.7           | 25.24                      |
| 16512.000000   | 38.85               | 54.00             | 15.15      | H        | 15.3           | 23.55                      |
| 17946.500000   | 39.91               | 54.00             | 14.09      | H        | 17.3           | 22.61                      |

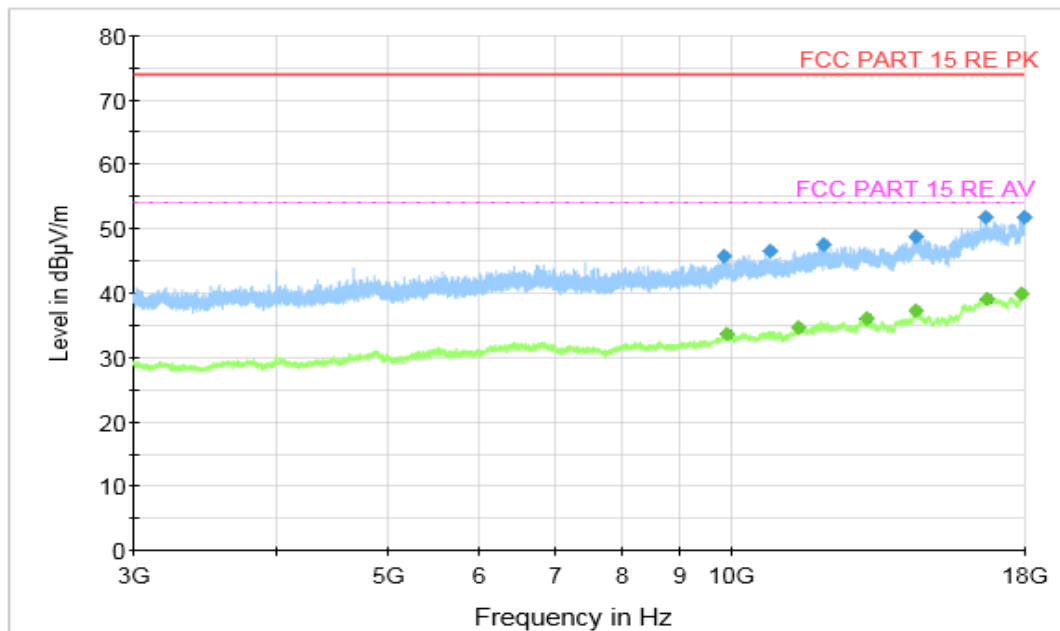


**Figure A.7 Radiated Emission (Set.2, Charging and GSM850MHz idle, 30MHz to 1GHz)**  
**Final\_Result**

| Frequency<br>(MHz) | QuasiPeak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Pol | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|--------------------|-----------------------|-------------------|----------------|-----|----------------|----------------------------|
| 30.911667          | 26.21                 | 40.00             | 13.79          | V   | -25.1          | 51.31                      |
| 40.450000          | 27.43                 | 40.00             | 12.57          | V   | -29.5          | 56.93                      |
| 144.490556         | 22.09                 | 43.50             | 21.41          | H   | -33.5          | 55.59                      |
| 203.500556         | 21.09                 | 43.50             | 22.41          | H   | -33.0          | 54.09                      |
| 321.656111         | 21.67                 | 46.00             | 24.33          | H   | -28.5          | 50.17                      |
| 687.518333         | 29.08                 | 46.00             | 16.92          | V   | -19.7          | 48.78                      |



**Figure A.8 Radiated Emission (Set.2, Charging and GSM850MHz idle, 1GHz to 3GHz)**



**Figure A.9 Radiated Emission (Set.2, Charging and GSM850MHz idle, 3GHz to 18GHz)**

#### Final\_Results\_PK

| Frequency(MHz) | Peak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|------------------|-------------------|------------|----------|----------------|----------------------------|
| 9844.000000    | 45.84            | 74.00             | 28.16      | H        | 5.1            | 40.74                      |
| 10790.000000   | 46.50            | 74.00             | 27.50      | H        | 6.5            | 40.00                      |
| 12010.000000   | 47.58            | 74.00             | 26.42      | H        | 8.2            | 39.38                      |
| 14462.500000   | 48.68            | 74.00             | 25.32      | H        | 11.8           | 36.88                      |
| 16675.000000   | 51.88            | 74.00             | 22.12      | V        | 15.3           | 36.58                      |
| 17984.500000   | 51.73            | 74.00             | 22.27      | H        | 16.9           | 34.83                      |

#### Final\_Results\_AVG

| Frequency(MHz) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|---------------------|-------------------|------------|----------|----------------|----------------------------|
| 9885.500000    | 33.57               | 54.00             | 20.43      | H        | 5.3            | 28.27                      |
| 11435.000000   | 34.61               | 54.00             | 19.39      | H        | 6.8            | 27.81                      |
| 13125.000000   | 36.17               | 54.00             | 17.83      | H        | 9.8            | 26.37                      |
| 14467.000000   | 37.23               | 54.00             | 16.77      | H        | 11.7           | 25.53                      |
| 16679.500000   | 39.09               | 54.00             | 14.91      | H        | 15.2           | 23.89                      |
| 17909.500000   | 39.88               | 54.00             | 14.12      | H        | 17.4           | 22.48                      |

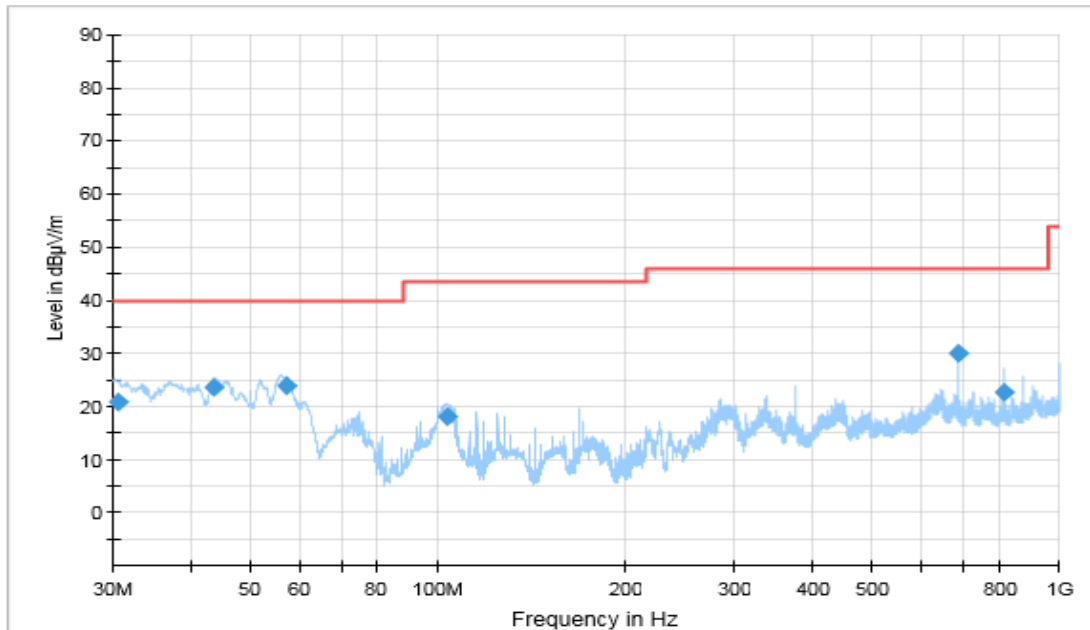


Figure A.10 Radiated Emission (Set.1,Camera Mode, 30MHz to 1GHz)

#### Final\_Result

| Frequency<br>(MHz) | QuasiPeak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Pol | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|--------------------|-----------------------|-------------------|----------------|-----|----------------|----------------------------|
| 30.682222          | 20.79                 | 40.00             | 19.21          | V   | -24.8          | 45.59                      |
| 43.749444          | 23.63                 | 40.00             | 16.37          | V   | -31.8          | 55.43                      |
| 57.247778          | 24.05                 | 40.00             | 15.95          | V   | -37.7          | 61.75                      |
| 103.981667         | 18.17                 | 43.50             | 25.33          | V   | -32.3          | 50.47                      |
| 687.518333         | 30.08                 | 46.00             | 15.92          | V   | -19.7          | 49.78                      |
| 812.540556         | 22.79                 | 46.00             | 23.21          | V   | -18.5          | 41.29                      |

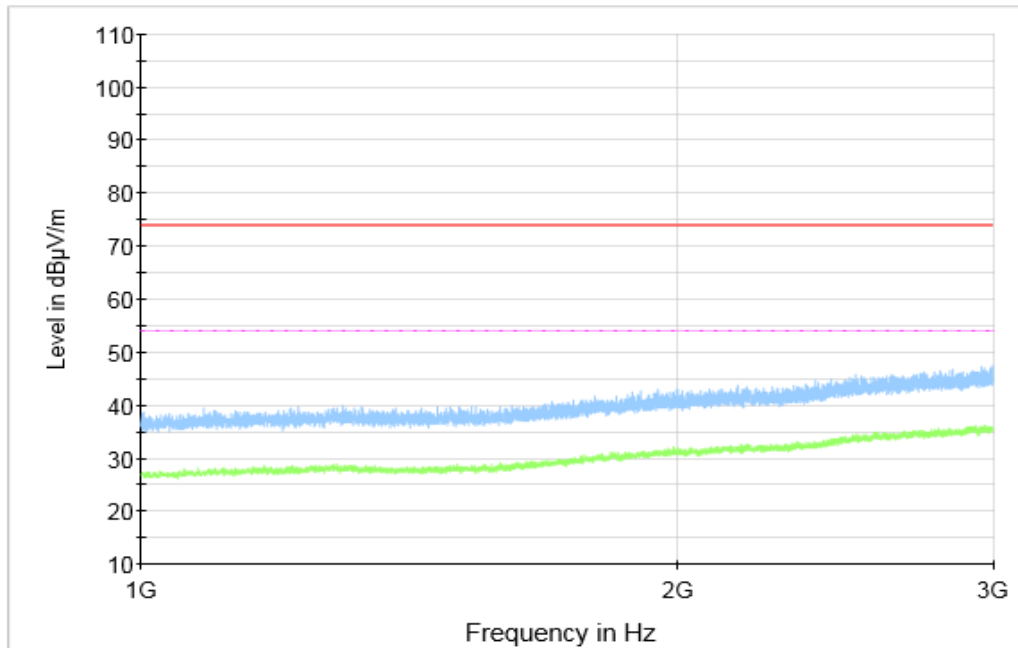
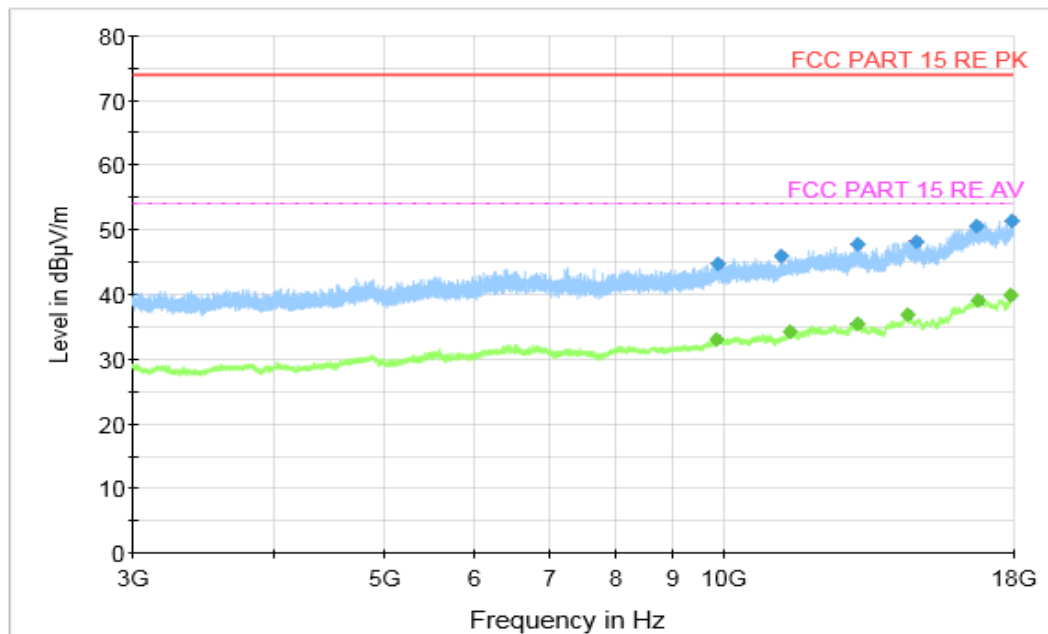


Figure A.11 Radiated Emission (Set.1,Camera Mode, 1GHz to 3GHz)



**Figure A.12 Radiated Emission (Set.1, Camera Mode , 3GHz to 18GHz)**

#### Final\_Results\_PK

| Frequency(MHz) | Peak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|------------------|-------------------|------------|----------|----------------|----------------------------|
| 9859.500000    | 44.83            | 74.00             | 29.17      | H        | 5.3            | 39.53                      |
| 11215.500000   | 46.01            | 74.00             | 27.99      | H        | 6.1            | 39.91                      |
| 13105.500000   | 47.69            | 74.00             | 26.31      | V        | 9.5            | 38.19                      |
| 14789.000000   | 48.16            | 74.00             | 25.84      | V        | 11.1           | 37.06                      |
| 16702.500000   | 50.64            | 74.00             | 23.36      | H        | 15.4           | 35.24                      |
| 17953.500000   | 51.35            | 74.00             | 22.65      | H        | 17.1           | 34.25                      |

#### Final\_Results\_AVG

| Frequency(MHz) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|---------------------|-------------------|------------|----------|----------------|----------------------------|
| 9824.500000    | 33.13               | 54.00             | 20.87      | V        | 5.1            | 28.03                      |
| 11414.000000   | 34.17               | 54.00             | 19.83      | V        | 6.5            | 27.67                      |
| 13098.000000   | 35.52               | 54.00             | 18.48      | V        | 9.8            | 25.72                      |
| 14492.000000   | 36.94               | 54.00             | 17.06      | H        | 11.7           | 25.24                      |
| 16748.000000   | 39.10               | 54.00             | 14.90      | H        | 15.6           | 23.5                       |
| 17909.000000   | 39.86               | 54.00             | 14.14      | H        | 17.4           | 22.46                      |

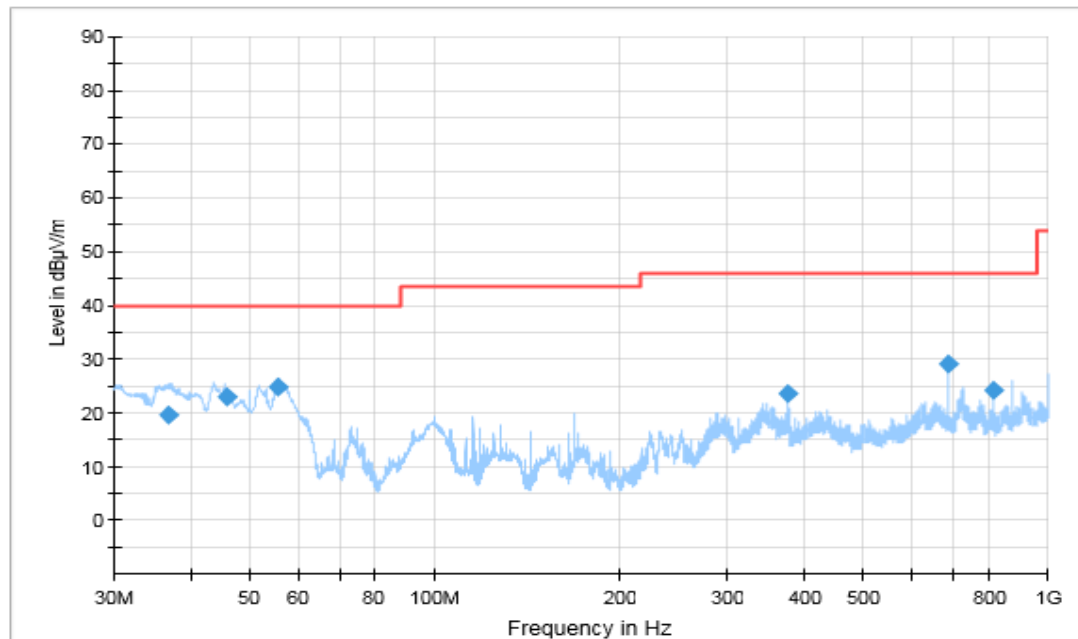


Figure A.13 Radiated Emission (Set.1,FM Mode, 30MHz to 1GHz)

#### Final\_Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | ARpl (dB/m) | P <sub>Mea</sub> (dBμV) |
|-----------------|--------------------|----------------|-------------|-----|-------------|-------------------------|
| 36.743889       | 19.63              | 40.00          | 20.37       | V   | -27.6       | 47.23                   |
| 45.767778       | 23.05              | 40.00          | 16.95       | V   | -33.1       | 56.15                   |
| 55.658889       | 24.94              | 40.00          | 15.06       | V   | -38.5       | 63.44                   |
| 375.016667      | 23.61              | 46.00          | 22.39       | V   | -26.7       | 50.31                   |
| 687.518333      | 29.10              | 46.00          | 16.90       | V   | -19.7       | 48.8                    |
| 812.540556      | 24.36              | 46.00          | 21.64       | V   | -18.5       | 42.86                   |

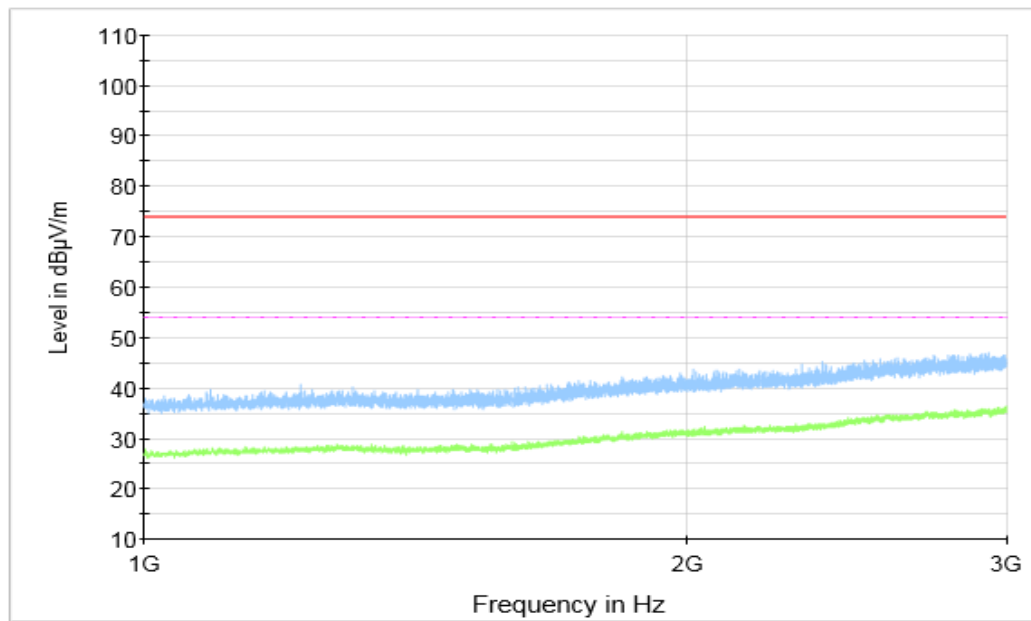


Figure A.14 Radiated Emission (Set.1,FM Mode, 1GHz to 3GHz)

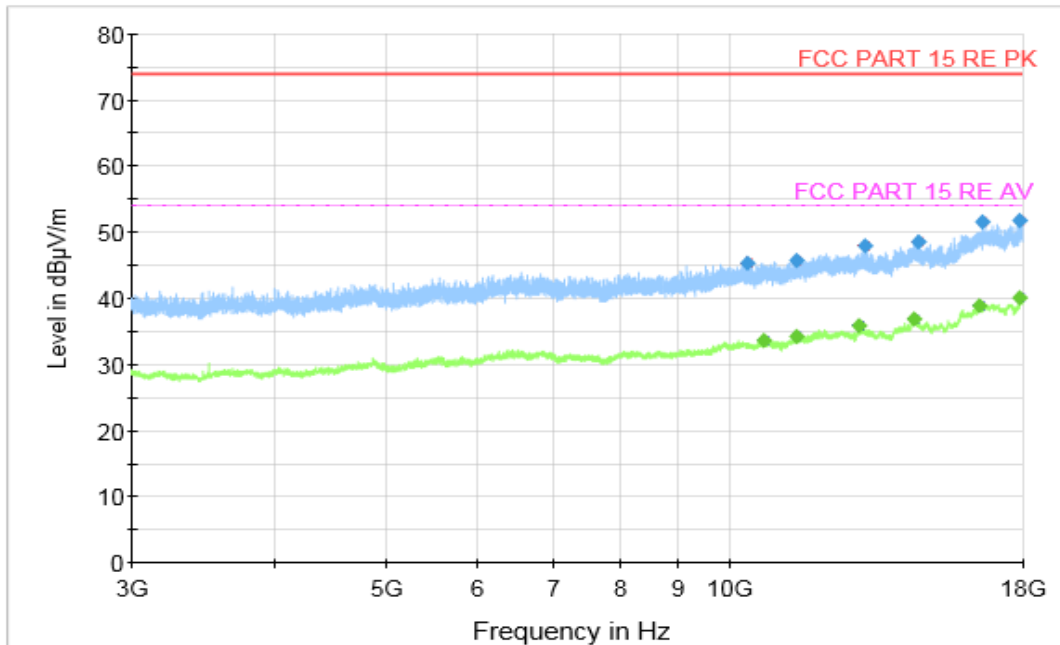


Figure A.15 Radiated Emission (Set.1, FM Mode , 3GHz to 18GHz)

#### Final\_Results\_PK

| Frequency(MHz) | Peak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|------------------|-------------------|------------|----------|----------------|----------------------------|
| 10362.500000   | 45.36            | 74.00             | 28.64      | H        | 5.6            | 39.76                      |
| 11425.500000   | 45.73            | 74.00             | 28.27      | H        | 6.7            | 39.03                      |
| 13098.500000   | 48.05            | 74.00             | 25.95      | H        | 9.8            | 38.25                      |
| 14599.500000   | 48.62            | 74.00             | 25.38      | V        | 11.6           | 37.02                      |
| 16598.000000   | 51.58            | 74.00             | 22.42      | H        | 15.3           | 36.28                      |
| 17894.500000   | 51.85            | 74.00             | 22.15      | V        | 16.5           | 35.35                      |

#### Final\_Results\_AVG

| Frequency(MHz) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|---------------------|-------------------|------------|----------|----------------|----------------------------|
| 10702.500000   | 33.75               | 54.00             | 20.25      | H        | 6.2            | 27.55                      |
| 11431.500000   | 34.20               | 54.00             | 19.80      | V        | 6.8            | 27.4                       |
| 12942.000000   | 35.86               | 54.00             | 18.14      | H        | 9.5            | 26.36                      |
| 14489.500000   | 36.88               | 54.00             | 17.12      | V        | 11.7           | 25.18                      |
| 16522.500000   | 38.94               | 54.00             | 15.06      | V        | 15.3           | 23.64                      |
| 17909.000000   | 40.08               | 54.00             | 13.92      | H        | 17.4           | 22.68                      |

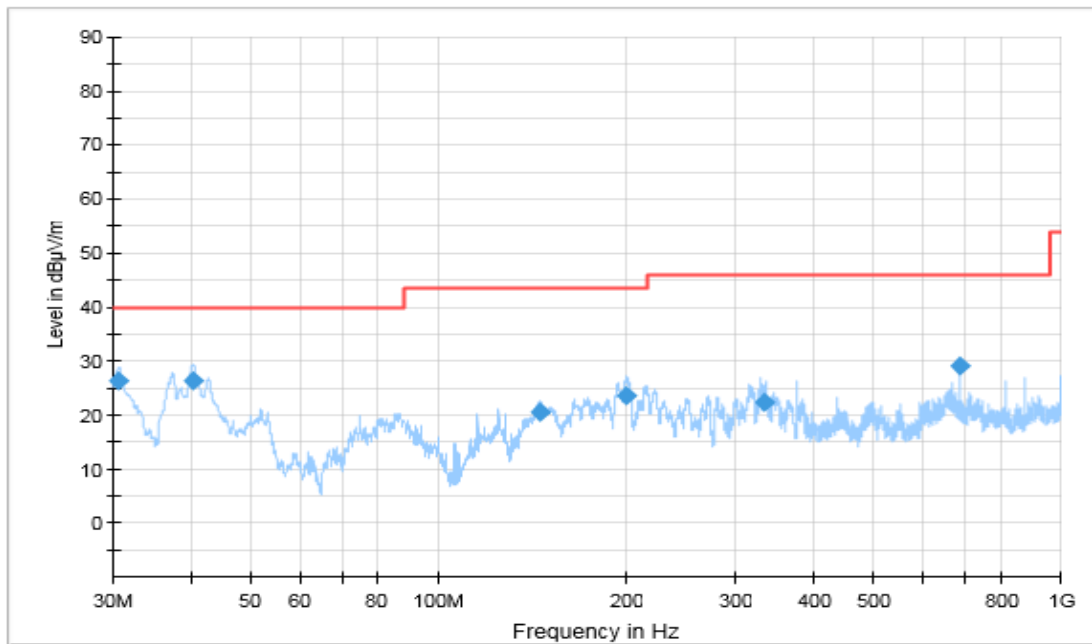


Figure A.16 Radiated Emission (Set.2,FM Mode, 30MHz to 1GHz)

#### Final\_Result

| Frequency<br>(MHz) | QuasiPeak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Pol | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|--------------------|-----------------------|-------------------|----------------|-----|----------------|----------------------------|
| 30.723889          | 26.49                 | 40.00             | 13.51          | V   | -24.9          | 51.39                      |
| 40.446667          | 26.32                 | 40.00             | 13.68          | V   | -29.5          | 55.82                      |
| 145.884444         | 20.72                 | 43.50             | 22.78          | H   | -33.5          | 54.22                      |
| 200.267222         | 23.68                 | 43.50             | 19.82          | H   | -33.0          | 56.68                      |
| 334.441667         | 22.49                 | 46.00             | 23.51          | H   | -28.1          | 50.59                      |
| 687.518333         | 29.08                 | 46.00             | 16.92          | V   | -19.7          | 48.78                      |

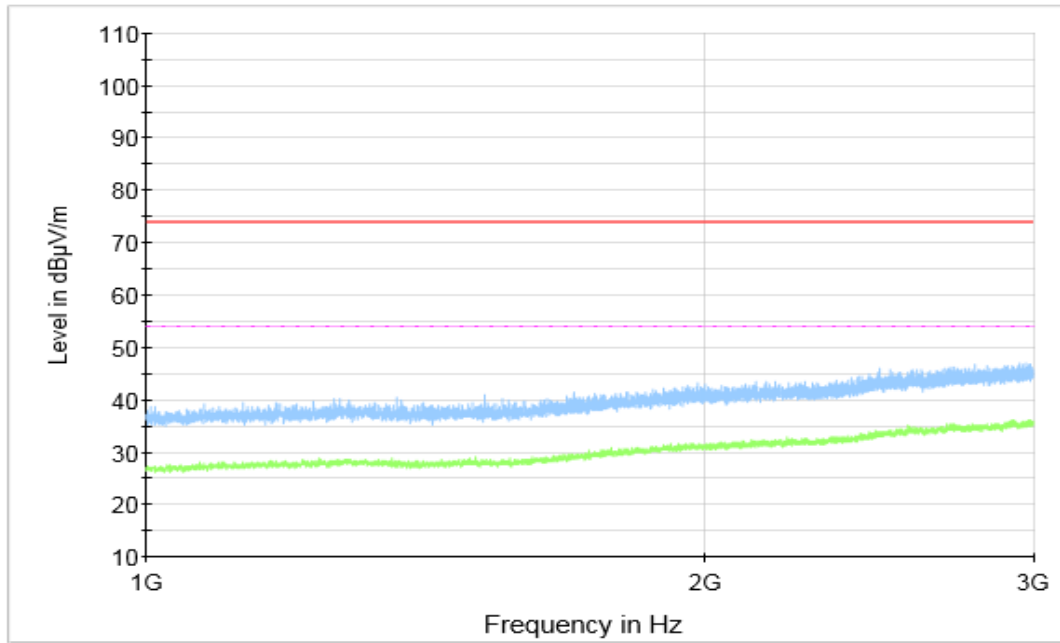


Figure A.17 Radiated Emission (Set.2,FM Mode, 1GHz to 3GHz)

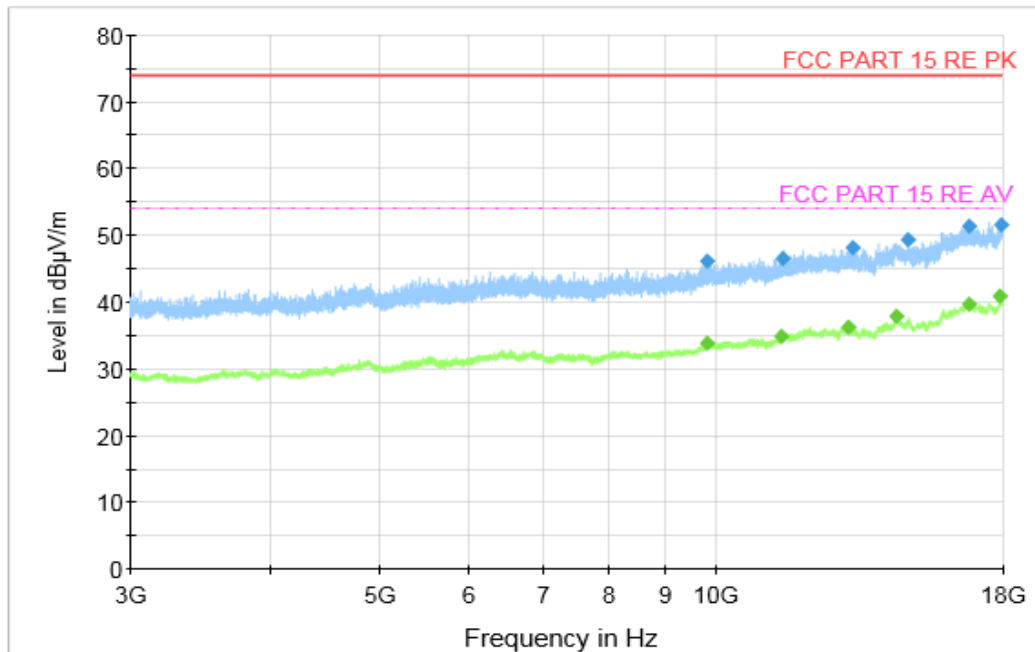


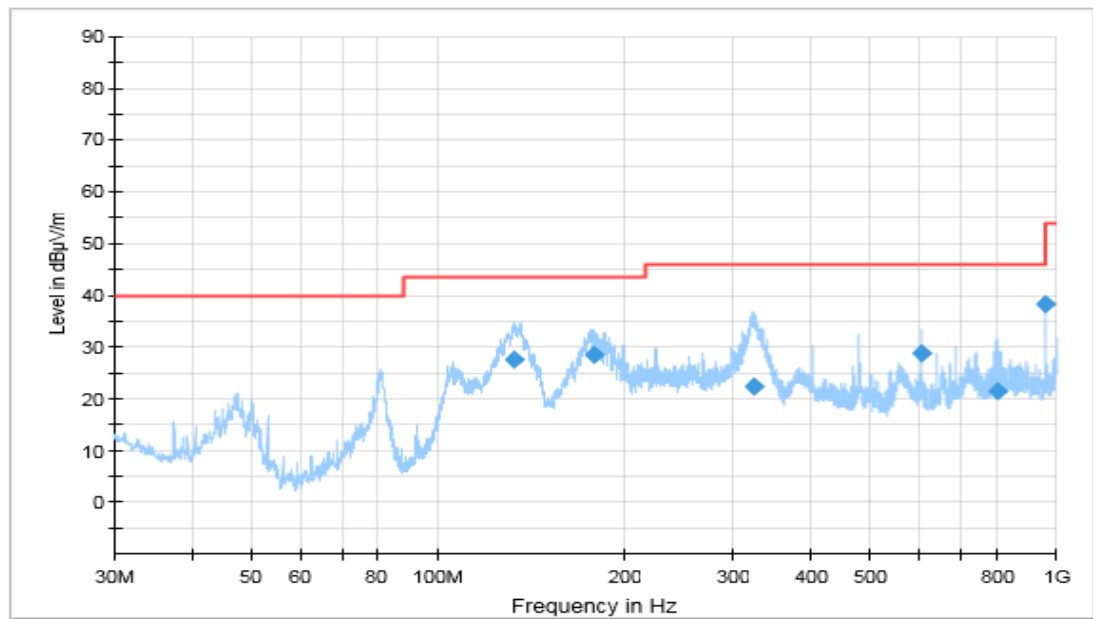
Figure A.18 Radiated Emission (Set.1, Video Player Mode, 3GHz to 18GHz)

#### Final\_Results\_PK

| Frequency(MHz) | Peak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|------------------|-------------------|------------|----------|----------------|----------------------------|
| 9805.500000    | 46.09            | 74.00             | 27.91      | V        | 4.8            | 41.29                      |
| 11466.000000   | 46.61            | 74.00             | 27.39      | H        | 6.7            | 39.91                      |
| 13241.000000   | 48.16            | 74.00             | 25.84      | H        | 9.7            | 38.46                      |
| 14799.500000   | 49.32            | 74.00             | 24.68      | H        | 11.2           | 38.12                      |
| 16782.500000   | 51.34            | 74.00             | 22.66      | V        | 15.9           | 35.44                      |
| 17964.500000   | 51.58            | 74.00             | 22.42      | H        | 16.8           | 34.78                      |

#### Final\_Results\_AVG

| Frequency(MHz) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|---------------------|-------------------|------------|----------|----------------|----------------------------|
| 9796.000000    | 33.94               | 54.00             | 20.06      | H        | 4.9            | 29.04                      |
| 11433.500000   | 34.92               | 54.00             | 19.08      | H        | 6.8            | 28.12                      |
| 13099.500000   | 36.30               | 54.00             | 17.70      | H        | 9.8            | 26.50                      |
| 14461.500000   | 37.79               | 54.00             | 16.21      | H        | 11.8           | 25.99                      |
| 16793.000000   | 39.66               | 54.00             | 14.34      | H        | 15.7           | 23.96                      |
| 17910.000000   | 40.88               | 54.00             | 13.12      | H        | 17.4           | 23.48                      |



**Figure A.19 Radiated Emission (Set.3, Data Transfer Mode: EUT to PC, 30MHz to 1GHz)**

#### Final\_Result

| Frequency<br>(MHz) | QuasiPeak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Pol | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|--------------------|-----------------------|-------------------|----------------|-----|----------------|----------------------------|
| 132.721667         | 27.77                 | 43.50             | 15.73          | H   | -32.3          | 60.07                      |
| 178.876667         | 28.39                 | 43.50             | 15.11          | H   | -32.9          | 61.29                      |
| 323.092222         | 22.34                 | 46.00             | 23.66          | H   | -28.4          | 50.74                      |
| 606.631111         | 28.96                 | 46.00             | 17.04          | V   | -21.2          | 50.16                      |
| 800.038333         | 21.40                 | 46.00             | 24.60          | H   | -18.8          | 40.2                       |
| 959.994444         | 38.20                 | 46.00             | 7.80           | H   | -16.3          | 54.50                      |

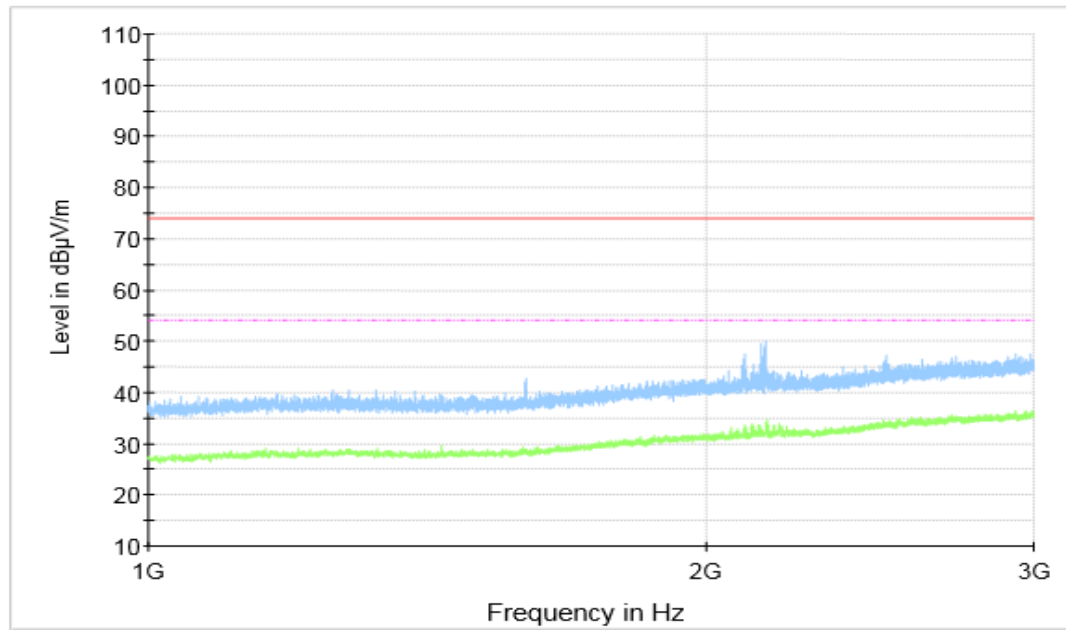
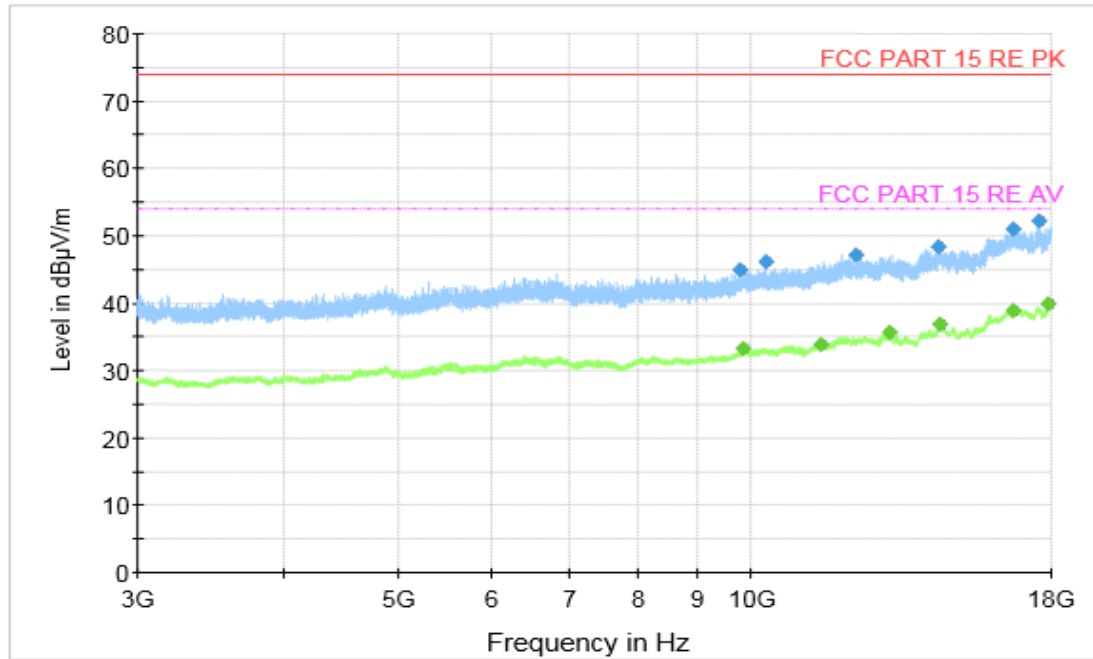


Figure A.20 Radiated Emission (Set.3, Data Transfer Mode: EUT to PC, 1GHz to 3GHz)



**Figure A.21 Radiated Emission (Set.3, Data Transfer Mode: EUT to PC, 3GHz to 18GHz)**

#### Final\_Results\_PK

| Frequency(MHz) | Peak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|------------------|-------------------|------------|----------|----------------|----------------------------|
| 9782.500000    | 44.99            | 74.00             | 29.01      | H        | 4.8            | 40.19                      |
| 10283.000000   | 46.09            | 74.00             | 27.91      | V        | 5.6            | 40.49                      |
| 12278.000000   | 47.19            | 74.00             | 26.81      | H        | 8.4            | 38.79                      |
| 14428.500000   | 48.29            | 74.00             | 25.71      | H        | 11.5           | 36.79                      |
| 16720.500000   | 50.98            | 74.00             | 23.02      | V        | 15.4           | 35.58                      |
| 17570.000000   | 52.11            | 74.00             | 21.89      | V        | 15.9           | 36.21                      |

#### Final\_Results\_AVG

| Frequency(MHz) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|---------------------|-------------------|------------|----------|----------------|----------------------------|
| 9850.000000    | 33.23               | 54.00             | 20.77      | H        | 5.3            | 27.93                      |
| 11451.000000   | 33.93               | 54.00             | 20.07      | V        | 6.8            | 27.13                      |
| 13124.500000   | 35.71               | 54.00             | 18.29      | H        | 9.8            | 25.91                      |
| 14460.500000   | 36.81               | 54.00             | 17.19      | H        | 11.8           | 25.01                      |
| 16678.500000   | 38.83               | 54.00             | 15.17      | H        | 15.2           | 23.63                      |
| 17910.500000   | 39.99               | 54.00             | 14.01      | V        | 17.4           | 22.59                      |

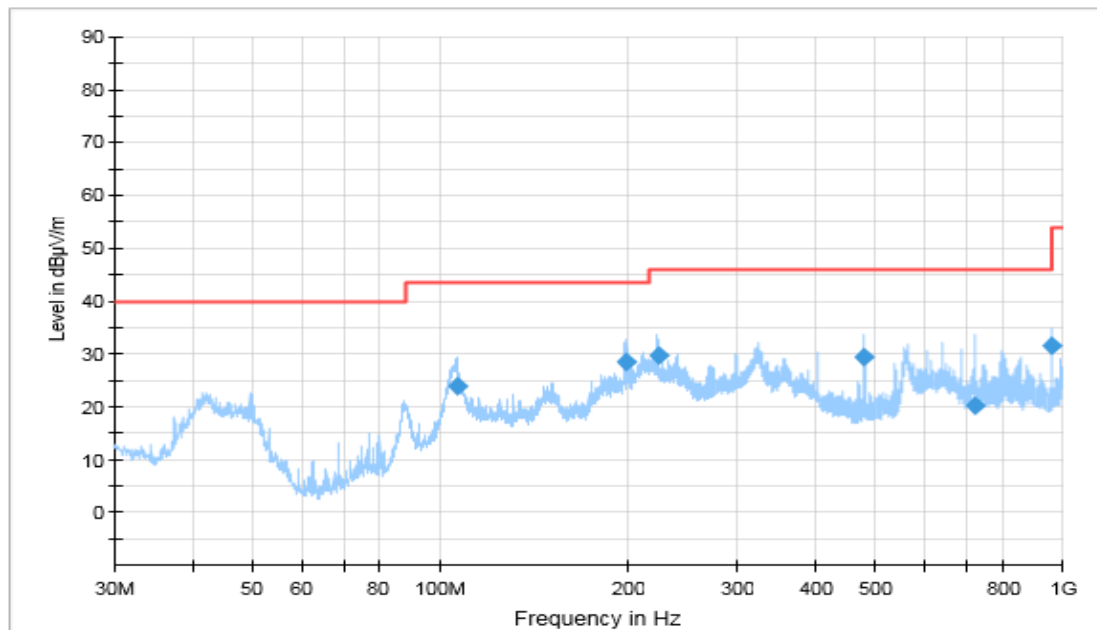


Figure A.22 Radiated Emission (Set.3, Data Transfer Mode: PC to EUT, 30MHz to 1GHz)

#### Final Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | ARpl (dB/m) | PMea (dBμV) |
|-----------------|--------------------|----------------|-------------|-----|-------------|-------------|
| 106.863889      | 24.06              | 43.50          | 19.44       | H   | -32.4       | 56.46       |
| 198.379444      | 28.48              | 43.50          | 15.02       | H   | -33.1       | 61.58       |
| 224.597222      | 29.75              | 46.00          | 16.25       | H   | -32.4       | 62.15       |
| 479.992222      | 29.34              | 46.00          | 16.66       | H   | -23.8       | 53.14       |
| 719.733333      | 20.24              | 46.00          | 25.76       | V   | -19.1       | 39.34       |
| 959.994444      | 31.70              | 46.00          | 14.30       | V   | -16.3       | 39.34       |

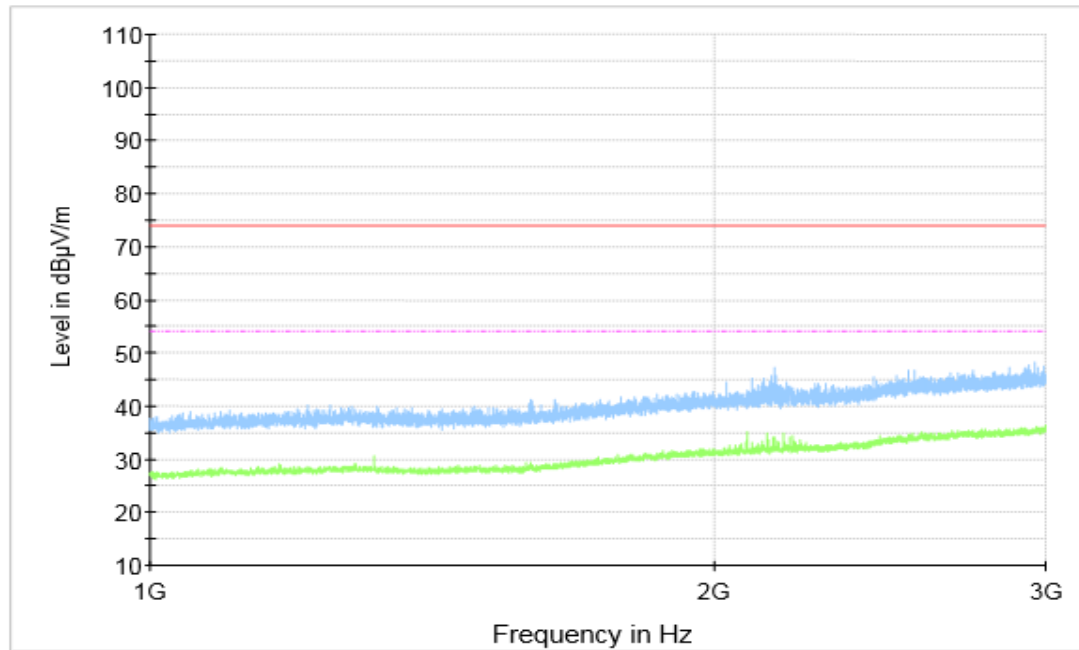
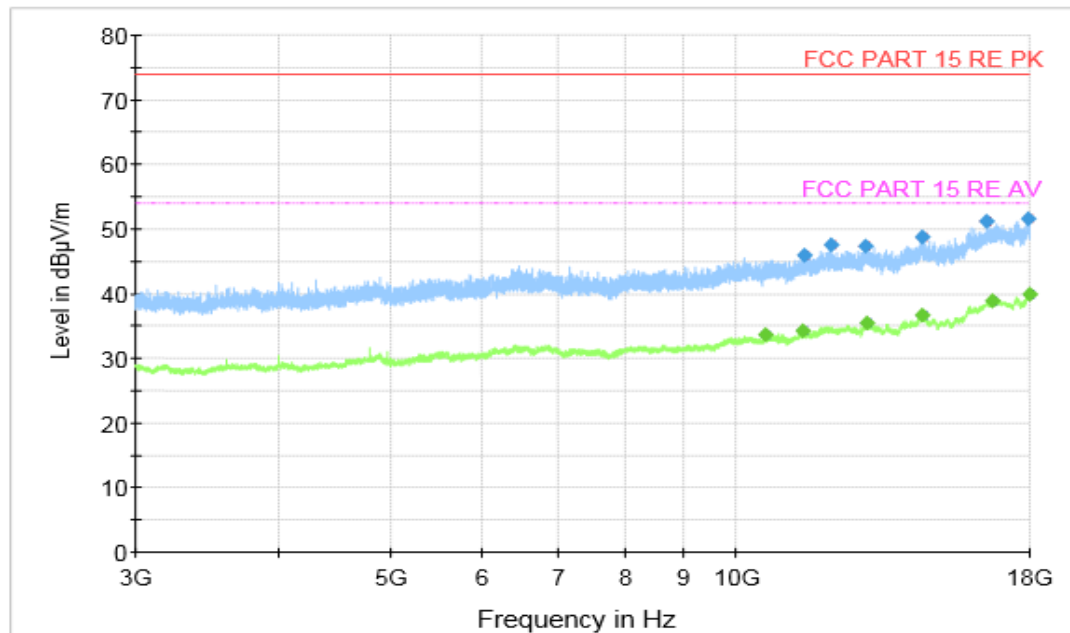


Figure A.23 Radiated Emission (Set.3, Data Transfer Mode: PC to EUT, 1GHz to 3GHz)



**Figure A.24 Radiated Emission (Set.3, Data Transfer Mode: PC to EUT, 3GHz to 18GHz)**

#### Final\_Results\_PK

| Frequency(MHz) | Peak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|------------------|-------------------|------------|----------|----------------|----------------------------|
| 11463.500000   | 45.93            | 74.00             | 28.07      | V        | 6.7            | 39.23                      |
| 12089.500000   | 47.62            | 74.00             | 26.38      | H        | 8.0            | 39.62                      |
| 12969.500000   | 47.36            | 74.00             | 26.64      | H        | 9.4            | 37.96                      |
| 14532.000000   | 48.71            | 74.00             | 25.29      | V        | 11.7           | 37.01                      |
| 16517.000000   | 51.21            | 74.00             | 22.79      | H        | 15.3           | 35.91                      |
| 17948.000000   | 51.52            | 74.00             | 22.48      | V        | 17.2           | 34.32                      |

#### Final\_Results\_AVG

| Frequency(MHz) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|---------------------|-------------------|------------|----------|----------------|----------------------------|
| 10607.500000   | 33.66               | 54.00             | 20.34      | H        | 5.7            | 27.96                      |
| 11417.500000   | 34.17               | 54.00             | 19.83      | H        | 6.6            | 27.57                      |
| 13008.500000   | 35.44               | 54.00             | 18.56      | V        | 9.2            | 26.24                      |
| 14500.000000   | 36.72               | 54.00             | 17.28      | V        | 11.7           | 25.02                      |
| 16704.500000   | 38.83               | 54.00             | 15.17      | V        | 15.4           | 23.43                      |
| 17998.000000   | 39.80               | 54.00             | 14.20      | H        | 16.9           | 22.90                      |

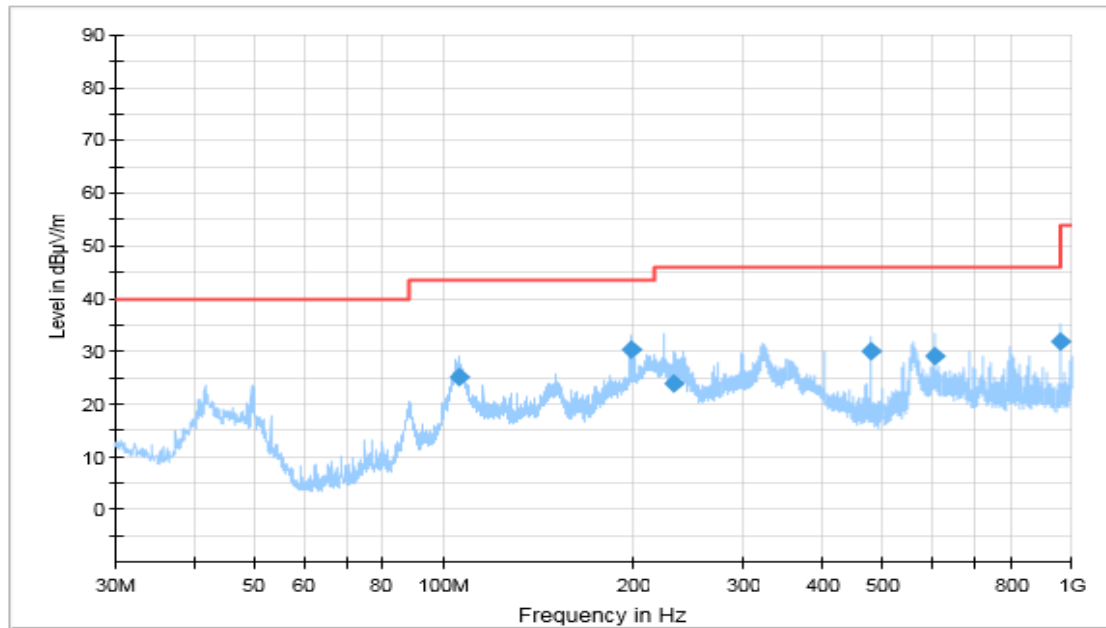


Figure A.25 Radiated Emission (Set.3, Data Transfer Mode: PC to TF Card, 30MHz to 1GHz)

#### Final\_Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | ARpl (dB/m) | P <sub>Mea</sub> (dBμV) |
|-----------------|--------------------|----------------|-------------|-----|-------------|-------------------------|
| 105.560000      | 25.26              | 43.50          | 18.24       | H   | -32.2       | 57.46                   |
| 199.326667      | 30.48              | 43.50          | 13.02       | H   | -33.0       | 63.48                   |
| 233.075000      | 24.07              | 46.00          | 21.93       | H   | -31.9       | 55.97                   |
| 480.032222      | 30.17              | 46.00          | 15.83       | V   | -23.8       | 53.97                   |
| 604.260000      | 29.12              | 46.00          | 16.88       | V   | -21.2       | 50.32                   |
| 959.994444      | 31.95              | 46.00          | 14.05       | V   | -16.3       | 48.25                   |

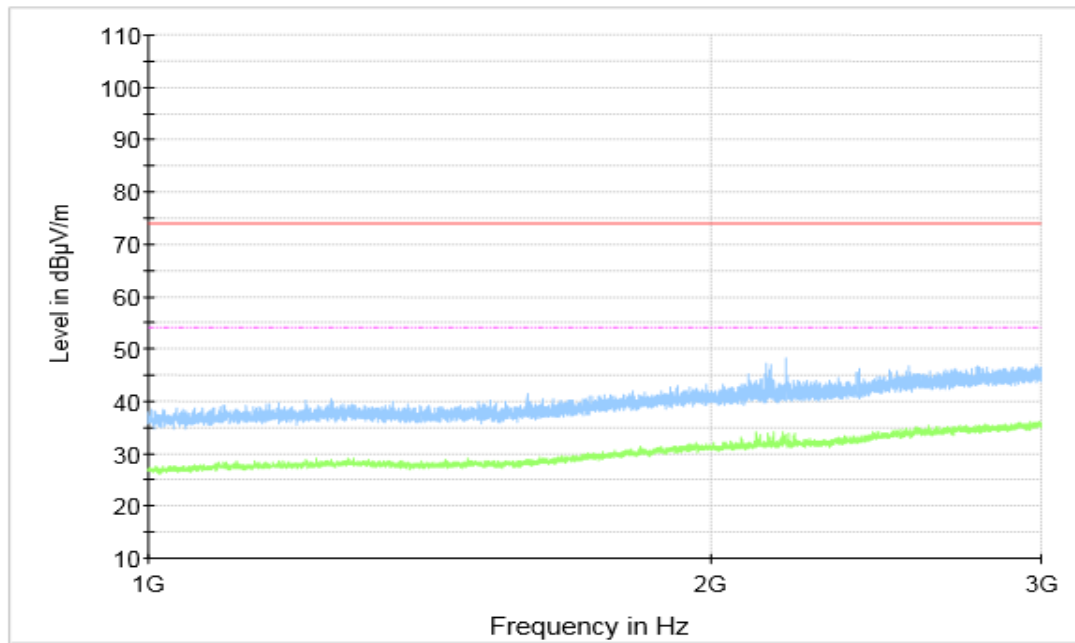


Figure A.26 Radiated Emission (Set.3, Data Transfer Mode: PC to TF Card, 1GHz to 3GHz)

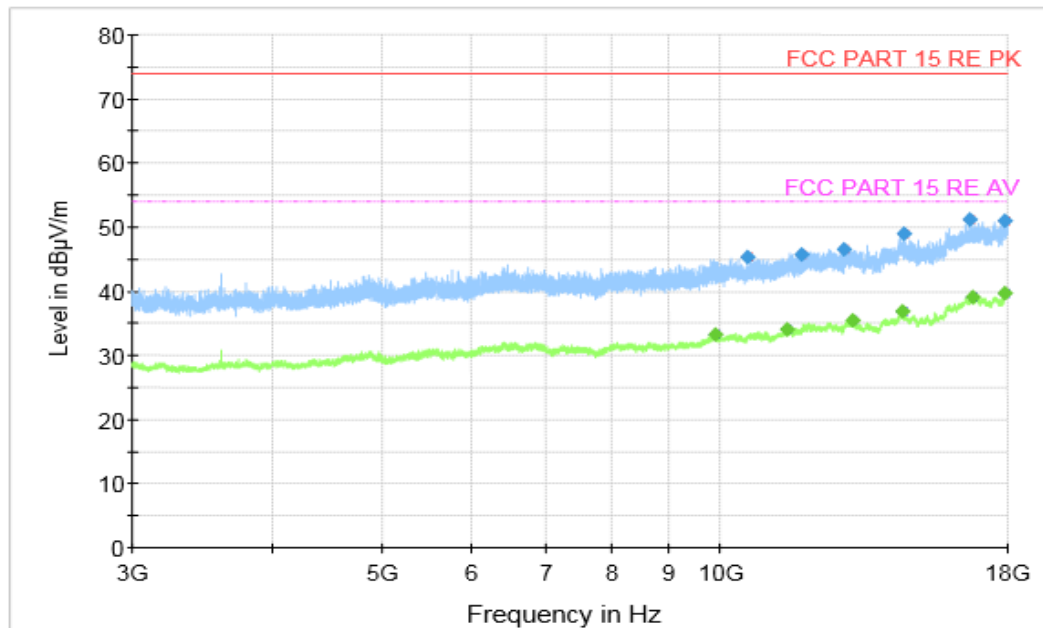


Figure A.27 Radiated Emission (Set.3, Data Transfer Mode: PC to TF Card, 3GHz to 18GHz)

#### Final\_Results\_PK

| Frequency(MHz) | Peak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | PMea<br>(dBμV) |
|----------------|------------------|-------------------|------------|----------|----------------|----------------|
| 10574.000000   | 45.39            | 74.00             | 28.61      | V        | 5.5            | 39.89          |
| 11812.000000   | 45.77            | 74.00             | 28.23      | H        | 7.7            | 38.07          |
| 12886.000000   | 46.56            | 74.00             | 27.44      | V        | 9.1            | 37.46          |
| 14551.000000   | 49.06            | 74.00             | 24.94      | H        | 11.7           | 37.36          |
| 16656.500000   | 51.15            | 74.00             | 22.85      | V        | 15.2           | 35.95          |
| 17910.500000   | 50.89            | 74.00             | 23.11      | H        | 17.4           | 33.49          |

#### Final\_Results\_AVG

| Frequency(MHz) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin(dB) | Polarity | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|----------------|---------------------|-------------------|------------|----------|----------------|----------------------------|
| 9883.500000    | 33.23               | 54.00             | 20.77      | H        | 5.4            | 27.83                      |
| 11460.000000   | 33.96               | 54.00             | 20.04      | H        | 6.8            | 27.16                      |
| 13100.500000   | 35.43               | 54.00             | 18.57      | H        | 9.7            | 25.73                      |
| 14499.500000   | 36.87               | 54.00             | 17.13      | H        | 11.7           | 25.17                      |
| 16738.000000   | 39.03               | 54.00             | 14.97      | H        | 15.5           | 23.53                      |
| 17909.000000   | 39.79               | 54.00             | 14.21      | H        | 17.4           | 22.39                      |

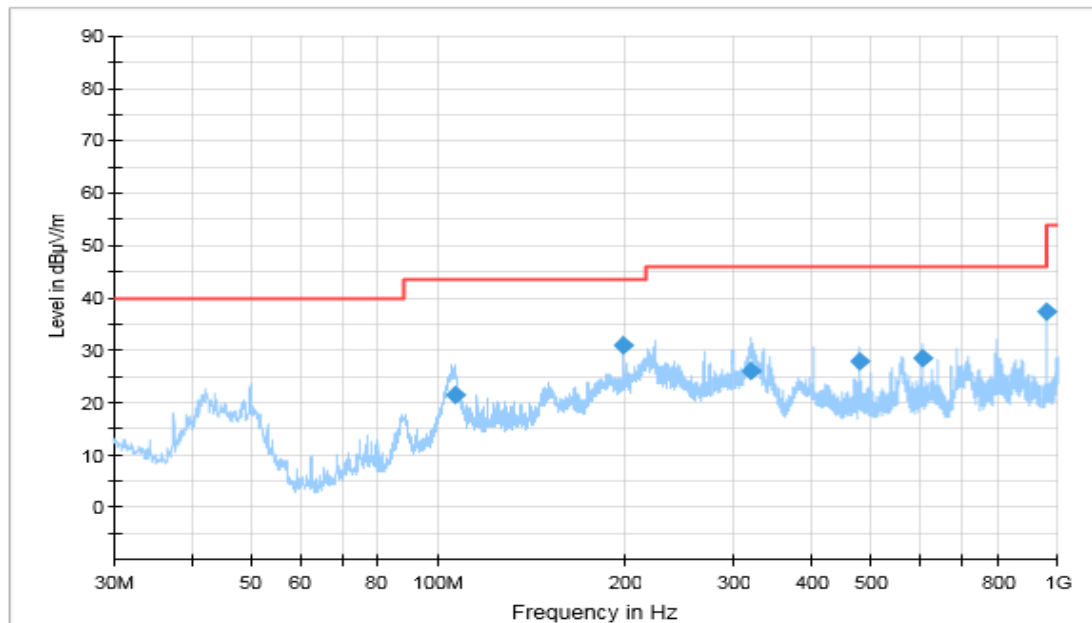


Figure A.28 Radiated Emission (Set.3, Data Transfer Mode: TF Card to PC, 30MHz to 1GHz)

#### Final\_Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | ARpl (dB/m) | P <sub>Mea</sub> (dBμV) |
|-----------------|--------------------|----------------|-------------|-----|-------------|-------------------------|
| 106.943889      | 21.52              | 43.50          | 21.98       | H   | -32.4       | 53.92                   |
| 198.907778      | 30.91              | 43.50          | 12.59       | H   | -33.1       | 64.01                   |
| 319.676111      | 26.03              | 46.00          | 19.97       | H   | -28.6       | 54.63                   |
| 479.992222      | 27.98              | 46.00          | 18.02       | V   | -23.8       | 51.78                   |
| 604.220000      | 28.45              | 46.00          | 17.55       | V   | -21.2       | 49.65                   |
| 959.994444      | 37.37              | 46.00          | 8.63        | H   | -16.3       | 53.67                   |

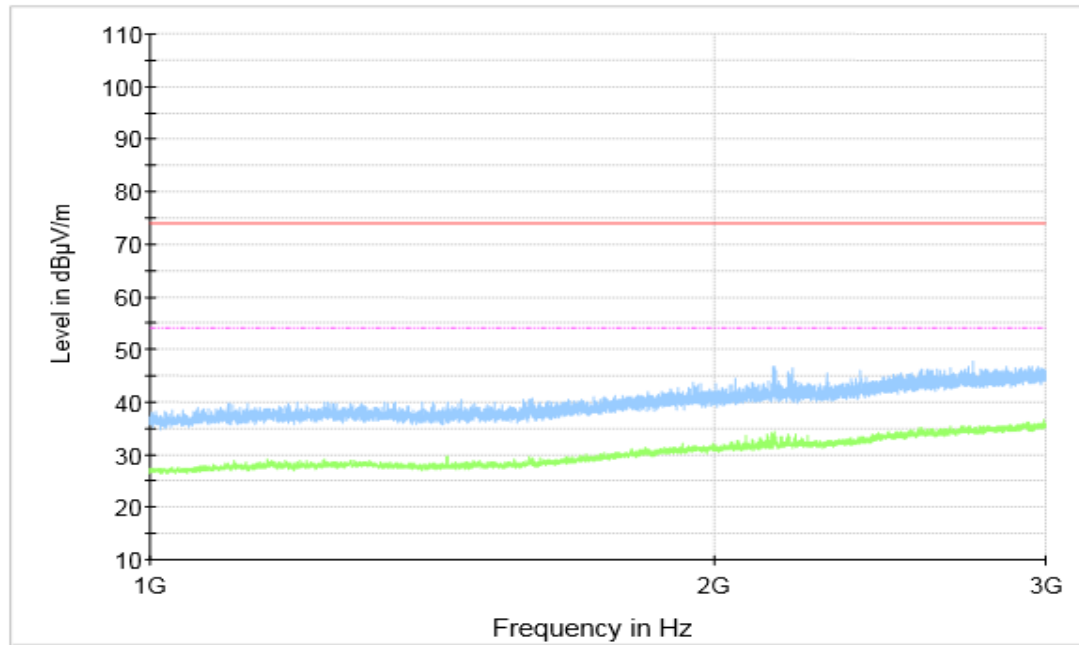


Figure A.29 Radiated Emission (Set.3, Data Transfer Mode: TF Card to PC, 1GHz to 3GHz)

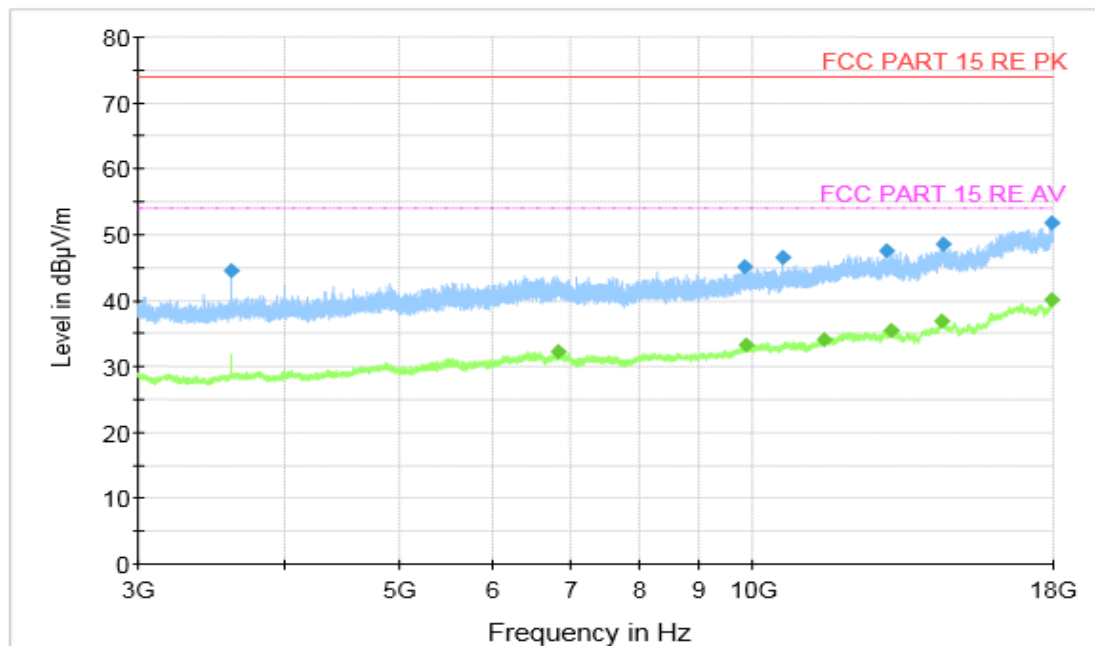


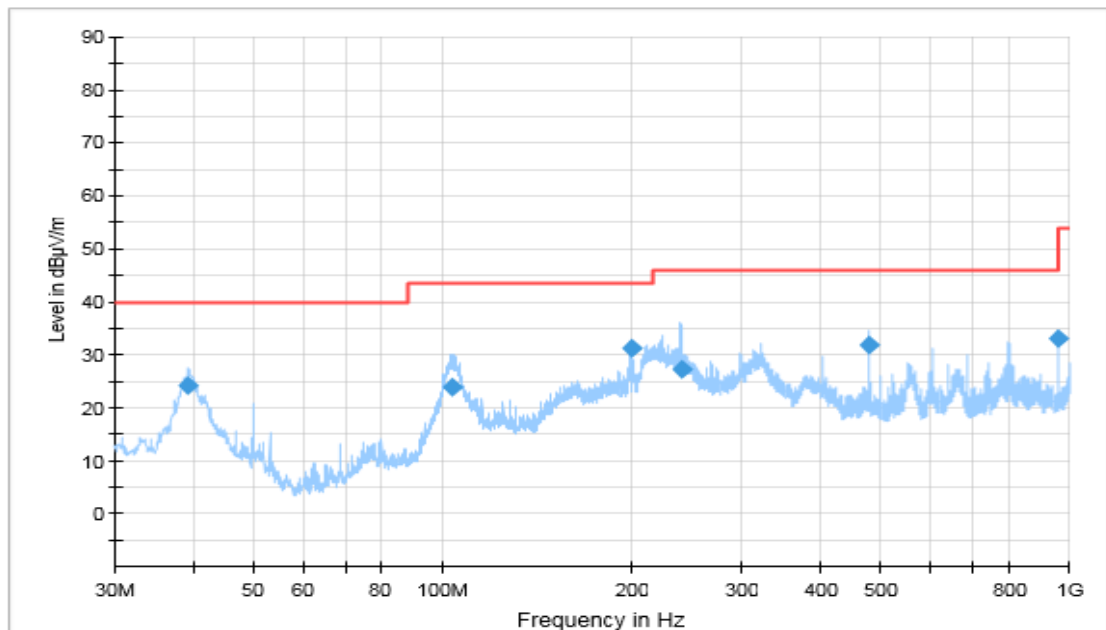
Figure A.30 Radiated Emission (Set.3, Data Transfer Mode: TF Card to PC, 3GHz to 18GHz)

#### Final\_Results\_PK

| Frequency(MHz) | Peak (dBμV/m) | Limit (dBμV/m) | Margin(dB) | Polarity | ARpl (dB/m) | P <sub>Mea</sub> (dBμV) |
|----------------|---------------|----------------|------------|----------|-------------|-------------------------|
| 3599.500000    | 44.44         | 74.00          | 29.56      | H        | -2.3        | 46.74                   |
| 9843.500000    | 45.21         | 74.00          | 28.79      | H        | 5.1         | 40.11                   |
| 10607.500000   | 46.63         | 74.00          | 27.37      | H        | 5.7         | 40.93                   |
| 12987.000000   | 47.46         | 74.00          | 26.54      | H        | 9.1         | 38.36                   |
| 14496.500000   | 48.59         | 74.00          | 25.41      | V        | 11.7        | 36.89                   |
| 17943.000000   | 51.84         | 74.00          | 22.16      | H        | 17.3        | 34.54                   |

#### Final\_Results\_AVG

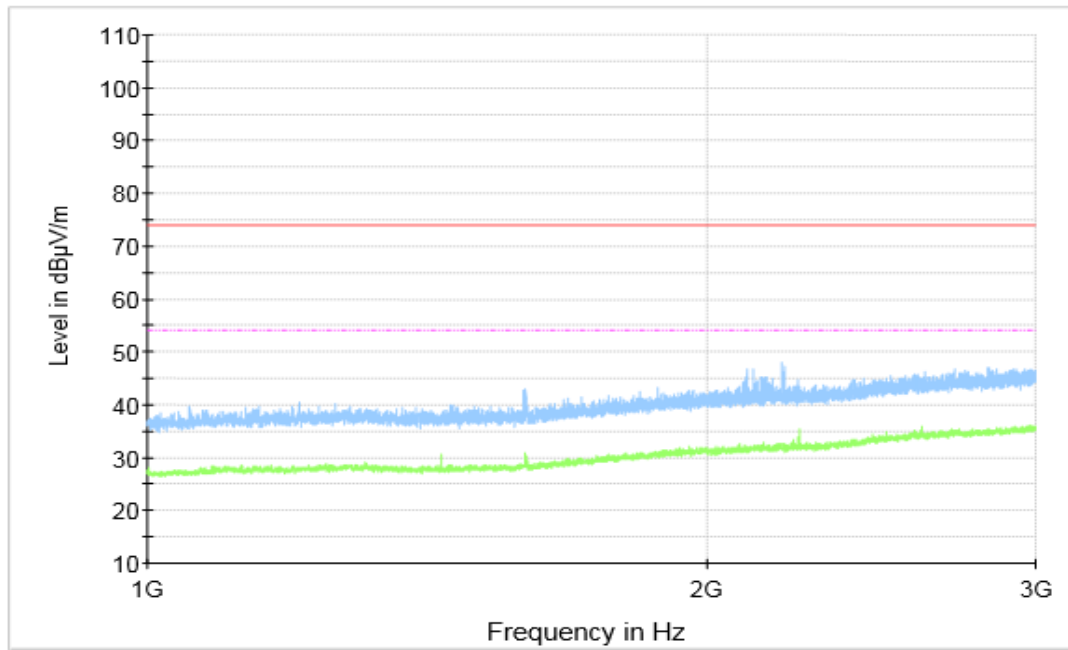
| Frequency(MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin(dB) | Polarity | ARpl (dB/m) | P <sub>Mea</sub> (dBμV) |
|----------------|------------------|----------------|------------|----------|-------------|-------------------------|
| 6827.000000    | 32.25            | 54.00          | 21.75      | V        | 2.7         | 29.55                   |
| 9853.000000    | 33.20            | 54.00          | 20.80      | H        | 5.3         | 27.90                   |
| 11495.500000   | 34.14            | 54.00          | 19.86      | H        | 6.9         | 27.24                   |
| 13097.500000   | 35.50            | 54.00          | 18.50      | V        | 9.8         | 25.70                   |
| 14460.000000   | 36.84            | 54.00          | 17.16      | H        | 11.8        | 25.04                   |
| 17950.000000   | 40.06            | 54.00          | 13.94      | H        | 17.2        | 22.86                   |



**Figure A.31 Radiated Emission (Set.4, Data Transfer Mode: EUT to PC, 30MHz to 1GHz)**

#### Final\_Result

| Frequency<br>(MHz) | QuasiPeak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Pol | ARpl<br>(dB/m) | P <sub>Mea</sub><br>(dBμV) |
|--------------------|-----------------------|-------------------|----------------|-----|----------------|----------------------------|
| 39.386111          | 24.40                 | 40.00             | 15.60          | V   | -29.3          | 53.70                      |
| 103.495000         | 23.88                 | 43.50             | 19.62          | H   | -32.4          | 56.28                      |
| 200.010000         | 31.38                 | 43.50             | 12.12          | H   | -33.0          | 64.38                      |
| 239.955556         | 27.32                 | 46.00             | 18.68          | H   | -31.4          | 58.72                      |
| 479.952222         | 31.76                 | 46.00             | 14.24          | H   | -23.8          | 55.56                      |
| 959.994444         | 33.21                 | 46.00             | 12.79          | H   | -16.3          | 49.51                      |



**Figure A.32 Radiated Emission (Set.4, Data Transfer Mode: EUT to PC, 1GHz to 3GHz)**

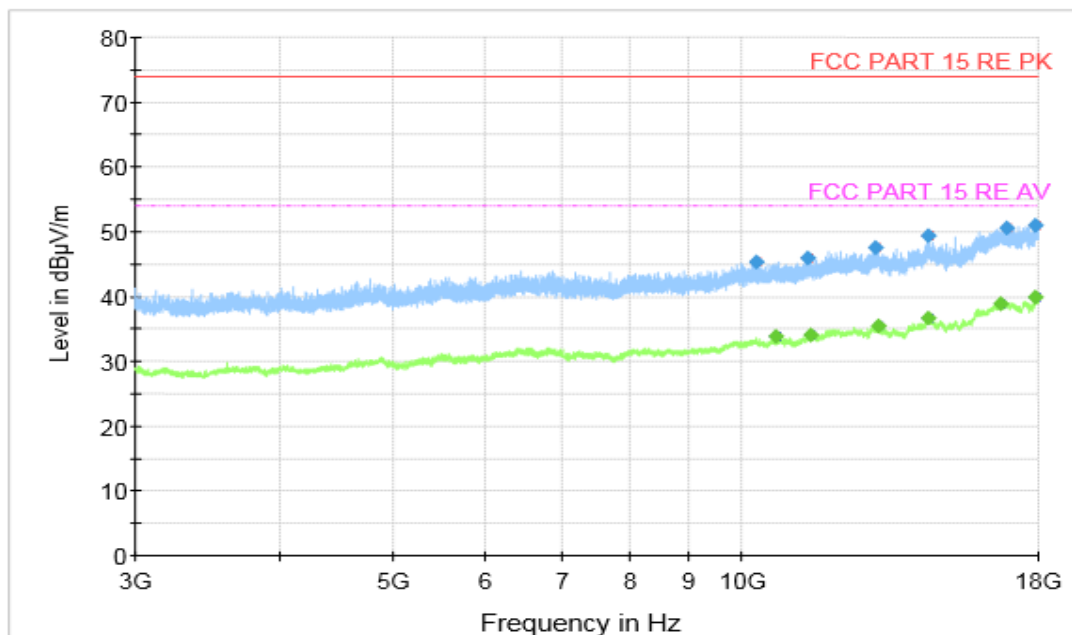


Figure A.33 Radiated Emission (Set.4, Data Transfer Mode: EUT to PC, 3GHz to 18GHz)

#### Final\_Results\_PK

| Frequency(MHz) | Peak (dBμV/m) | Limit (dBμV/m) | Margin(dB) | Polarity | ARpl (dB/m) | P <sub>Mea</sub> (dBμV) |
|----------------|---------------|----------------|------------|----------|-------------|-------------------------|
| 10288.500000   | 45.31         | 74.00          | 28.69      | V        | 5.5         | 39.81                   |
| 11378.000000   | 45.89         | 74.00          | 28.11      | H        | 6.6         | 39.29                   |
| 13021.000000   | 47.60         | 74.00          | 26.40      | H        | 9.1         | 38.50                   |
| 14483.000000   | 49.28         | 74.00          | 24.72      | V        | 11.7        | 37.58                   |
| 16886.500000   | 50.64         | 74.00          | 23.36      | V        | 16.1        | 34.54                   |
| 17909.500000   | 51.00         | 74.00          | 23.00      | H        | 17.4        | 33.60                   |

#### Final\_Results\_AVG

| Frequency(MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin(dB) | Polarity | ARpl (dB/m) | P <sub>Mea</sub> (dBμV) |
|----------------|------------------|----------------|------------|----------|-------------|-------------------------|
| 10697.500000   | 33.87            | 54.00          | 20.13      | H        | 6.1         | 27.77                   |
| 11449.500000   | 34.05            | 54.00          | 19.95      | V        | 6.7         | 27.35                   |
| 13123.000000   | 35.52            | 54.00          | 18.48      | V        | 9.8         | 25.72                   |
| 14486.000000   | 36.74            | 54.00          | 17.26      | V        | 11.7        | 25.04                   |
| 16701.000000   | 38.91            | 54.00          | 15.09      | V        | 15.4        | 23.51                   |
| 17910.500000   | 39.87            | 54.00          | 14.13      | H        | 17.4        | 22.47                   |

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