TEST REPORT

No.I20N03206-EMC

for

TCL Communication Ltd.

LTE/WCDMA/GSM mobile phone

Model Name：4063F

With

Hardware Version:V1.0

Software Version:8K16

FCC ID:2ACCJB143

Issued Date: 2021-01-04

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:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I20N03206-EMC	Rev.0	1st edition	2021-01-04

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

CONTENTS

1. Summary of Test Report

1.1. Test Items

Description	LTE/WCDMA/GSM mobile phone
Model Name	4063F
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

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: 2020-12-31

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:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact	Gong Zhizhou
Email	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
Email	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/WCDMA/GSM mobile phone
Model Name	4063F
FCC ID	2ACCJB143
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

EUT ID*	SN or IMEI	HW Version	SW Version	Receive Date
UT01aa	359320340000032	V1.0	8K16	2020-12-15

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

3.3. Internal Identification of AE

AE ID*	Description
AE1	Battery
AE2	Charger
AE3	USB Cable
AE4	Headset

AE1-1

Model	TLi028C7
S/N	CAB2880000C7
Manufacturer	VEKEN
Capacity	2880mAh
Nominal Voltage	3.85V

AE1-2

Model	TLi028C1
S/N	CAB2880001C11
Manufacturer	BYD
Capacity	2880mAh
Nominal Voltage	3.85V

AE2-1

Model	CBA0058AGAC5
Manufacturer	puan

AE2-2

Model	CBA0058AGAC7

Manufacturer	chenyang

AE3-1

Model	CDA3122005C2
Manufacturer	SHENGHUA

AE3-2

Model	CDA3122005C8
Manufacturer	puan

AE4-1

Model	CCB0046A15C1
Manufacturer	DALIN

AE4-2

Model	CCB0046A15C4
Manufacturer	MEIHAO

AE4-3

Model	CCB0049A12C1
Manufacturer	DALIN

AE4-4

Model	CCB0049A12C4
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
Set.1	EUT+AE1-1+AE2-1+AE3-1+AE4-1
Set.2	EUT+AE1-2+AE2-2+AE3-2+AE4-2
Set.3	EUT+AE1-1+AE2-1+AE3-1+AE4-3
Set.4	EUT+AE1-1+AE2-1+AE3-1+AE4-4
Set.5	EUT+AE1-1+AE3-1+AE4-1+PC
Set.6	EUT+AE1-2+AE3-2+AE4-2+PC
Set.7	EUT+AE1-2+AE3-2+AE4-3+PC
Set.8	EUT+AE1-2+AE3-2+AE4-4+PC

3.5. General Description

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

It supports GSM 850/900/1800/1900MHz,WCDMA Bands 2/4/5, and LTE Bands 2/3/4/5/7/812/17/28/66..

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.

LTE/WCDMA/GSM mobile phone 4063F manufactured by TCL Communication Ltd. is a variant model based on 4063A manufactured by TCL Communication Ltd. for conformance test.

According to client's description, the table below shows the difference between model 4063A and 4063F:

Changes	4063A	4063F
Memory	32GB+1GB	32GB+2GB
Rear camera	8M	13M+2M

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

NO.	Test iteam	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 I20N03205-EMC.

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, 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 ℃, Max. = 35℃
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 ℃, Max. = 35 ℃
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 ℃, Max. = 35℃
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℃
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

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 uncertaint
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.	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.	Universal Radio Communication Tester	CMU200	114545	R&S	2021.01.14	1 year
6.	Universal Radio Communication Tester	CMW500	152499	R&S	2021.07.16	1 year
7.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2021.07.19	2 years
8.	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 12.

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 (μV/m)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

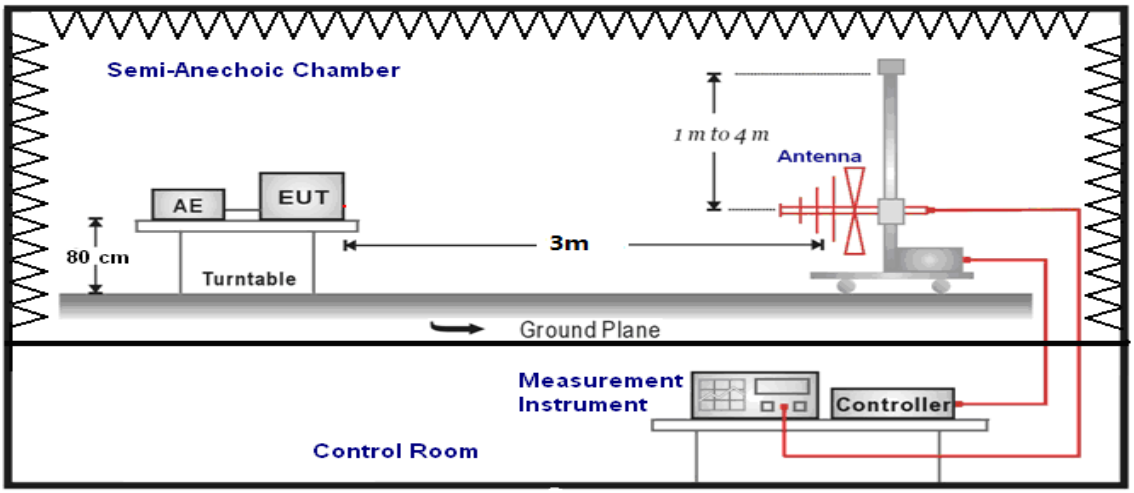
*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

A.1.4 Test Condition

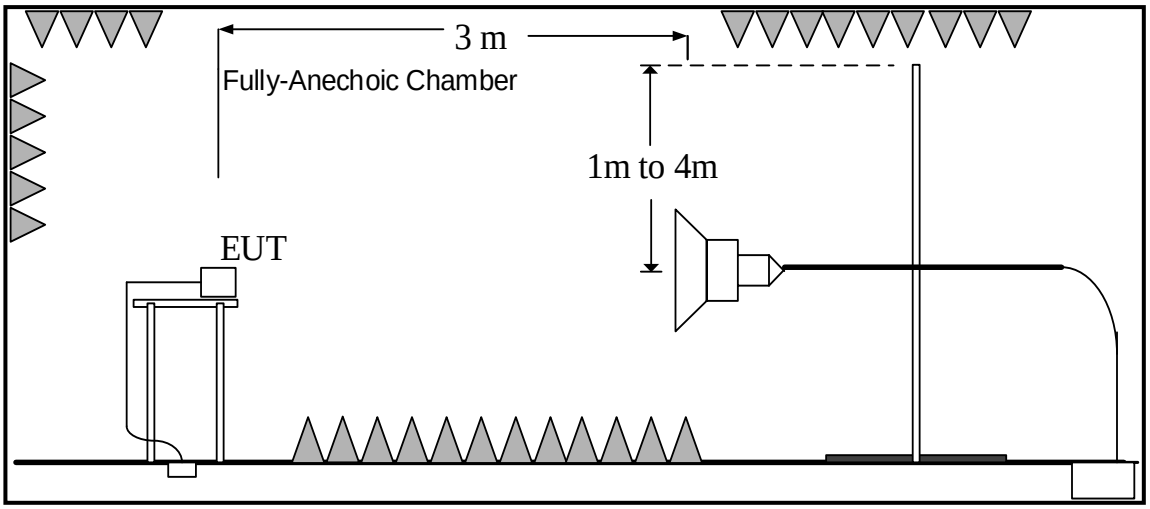
Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

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:

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

Where

G_A: Antenna factor of receive antenna

G_{PL}:PathLoss

P_{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

GSM Receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/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 (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
1000 to 18000	54	74	See Fugure A.1.2.	P

WCDMA Receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
30-88	40.00	See Fugure A.1.3.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
1000 to 18000	54	74	See Fugure A.1.4.	P

LTE Receiver Band 12

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
30-88	40.00	See Fugure A.1.5.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
1000 to 18000	54	74	See Fugure A.1.6.	P

GSM Receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.2	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 (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.2	Conclusion
1000 to 18000	54	74	See Fugure A.1.8.	P

GSM Receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.3	Conclusion
30-88	40.00	See Fugure A.1.9.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.3	Conclusion
1000 to 18000	54	74	See Fugure A.1.10.	P

GSM Receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.4	Conclusion
30-88	40.00	See Fugure A.1.11.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.4	Conclusion
1000 to 18000	54	74	See Fugure A.1.12.	P

FM receiver

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
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 (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
1000 to 18000	54	74	See Fugure A.1.14.	P

Video Player

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
30-88	40.00	See Fugure A.1.15.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
1000 to 18000	54	74	See Fugure A.1.16.	P

Camera

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
30-88	40.00	See Fugure A.1.17.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
1000 to 18000	54	74	See Fugure A.1.18.	P

GPS

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
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 (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
1000 to 18000	54	74	See Fugure A.1.20.	P

GLONASS

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
30-88	40.00	See Fugure A.1.21.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.1	Conclusion
1000 to 18000	54	74	See Fugure A.1.22.	P

FM receiver

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.2	Conclusion
30-88	40.00	See Fugure A.1.23.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.2	Conclusion
1000 to 18000	54	74	See Fugure A.1.24.	P

FM receiver

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.3	Conclusion
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 (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.3	Conclusion
1000 to 18000	54	74	See Fugure A.1.26.	P

FM receiver

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.4	Conclusion
30-88	40.00	See Fugure A.1.27.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.4	Conclusion
1000 to 18000	54	74	See Fugure A.1.28.	P

Data Transfer : EUT to PC

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.5	Conclusion
30-88	40.00	See Fugure A.1.29.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.5	Conclusion
1000 to 18000	54	74	See Fugure A.1.30.	P

Data Transfer : PC to EUT

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.5	Conclusion
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 (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.5	Conclusion
1000 to 18000	54	74	See Fugure A.1.32.	P

Data Transfer : PC to TF Card

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.5	Conclusion
30-88	40.00	See Fugure A.1.33.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.5	Conclusion
1000 to 18000	54	74	See Fugure A.1.34.	P

Data Transfer : TF Card to PC

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.5	Conclusion
30-88	40.00	See Fugure A.1.35.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.5	Conclusion
1000 to 18000	54	74	See Fugure A.1.36.	P

Data Transfer : TF Card to PC

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.6	Conclusion
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 (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.6	Conclusion
1000 to 18000	54	74	See Fugure A.1.38.	P

Data Transfer : TF Card to PC

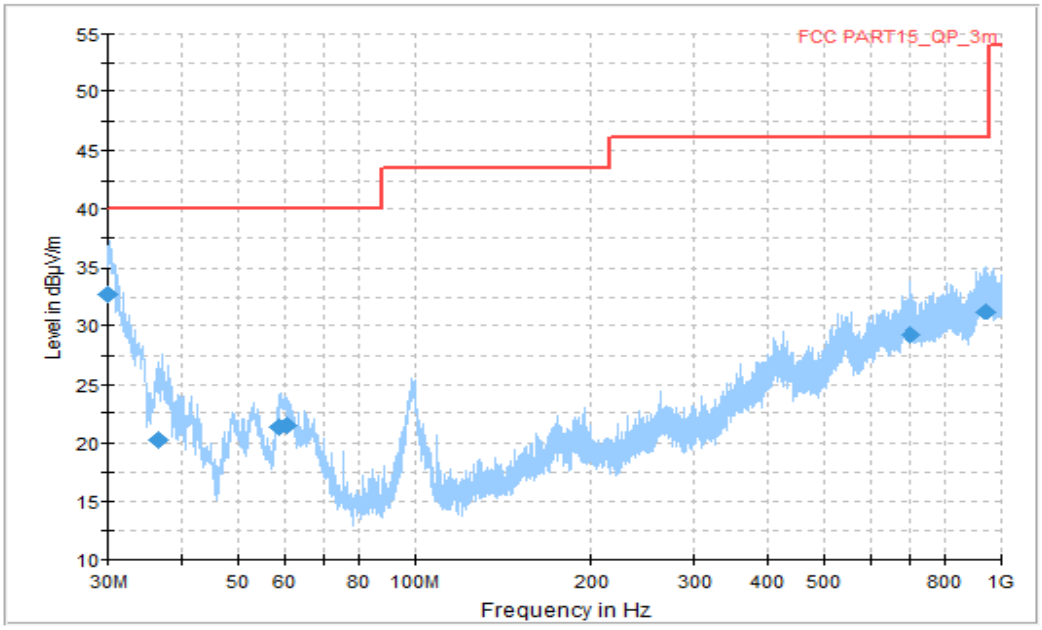
Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.7	Conclusion
30-88	40.00	See Fugure A.1.39.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.7	Conclusion
1000 to 18000	54	74	See Fugure A.1.40.	P

Data Transfer : TF Card to PC

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.8	Conclusion
30-88	40.00	See Fugure A.1.41.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

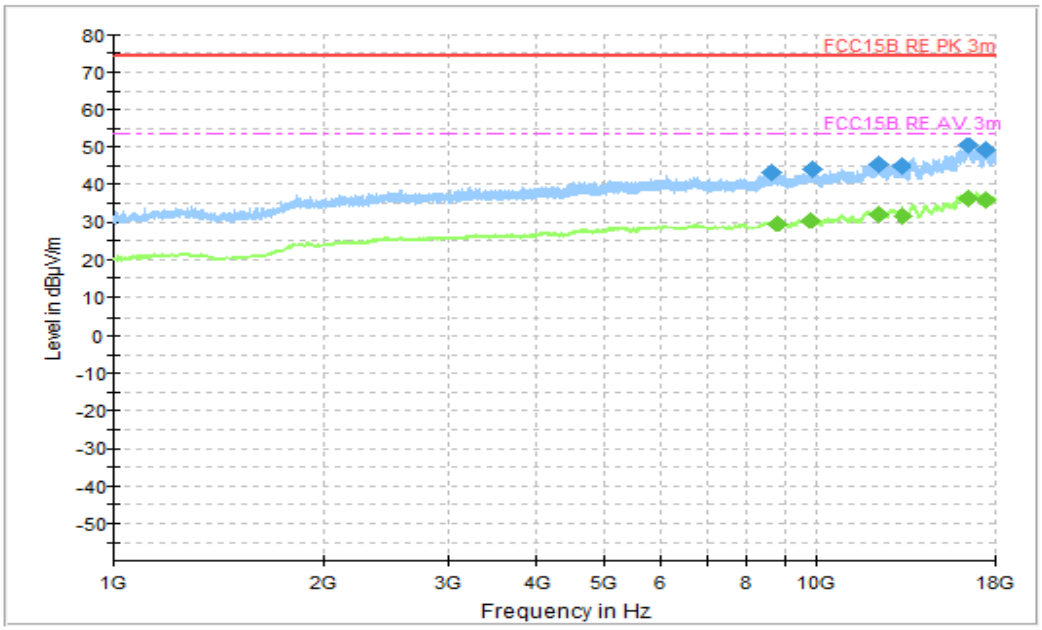
Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT01aa/Set.8	Conclusion
1000 to 18000	54	74	See Fugure A.1.42.	P



Fugure 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_{Mea} (dBµV)
30.030000	32.67	40.00	7.33	V	-6.3	38.97
36.681111	20.33	40.00	19.67	V	-10.1	30.43
58.602222	21.33	40.00	18.67	V	-15.8	37.13
60.386111	21.50	40.00	18.50	V	-15.6	37.1
703.210000	29.19	46.02	16.83	V	1.1	28.09
941.890556	31.23	46.02	14.79	V	2.9	28.33



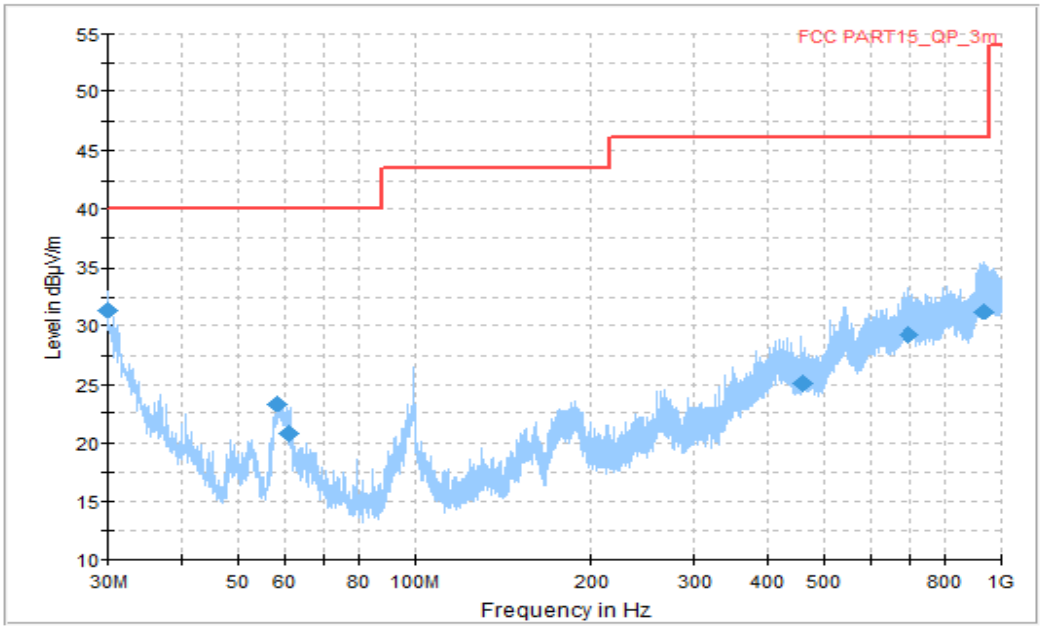
Fugure A.1.2. Radiated Emission (GSM Receiver 850MHz, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8626.000000	43.27	74.00	30.73	H	5.4	37.87
9897.500000	44.38	74.00	29.62	V	6.4	37.98
12257.500000	45.71	74.00	28.29	H	8.3	37.41
13241.500000	45.01	74.00	28.99	V	8.1	36.91
16462.500000	50.57	74.00	23.43	V	14.7	35.87
17471.000000	49.16	74.00	24.84	V	14.1	35.06

Final_Results_AVG

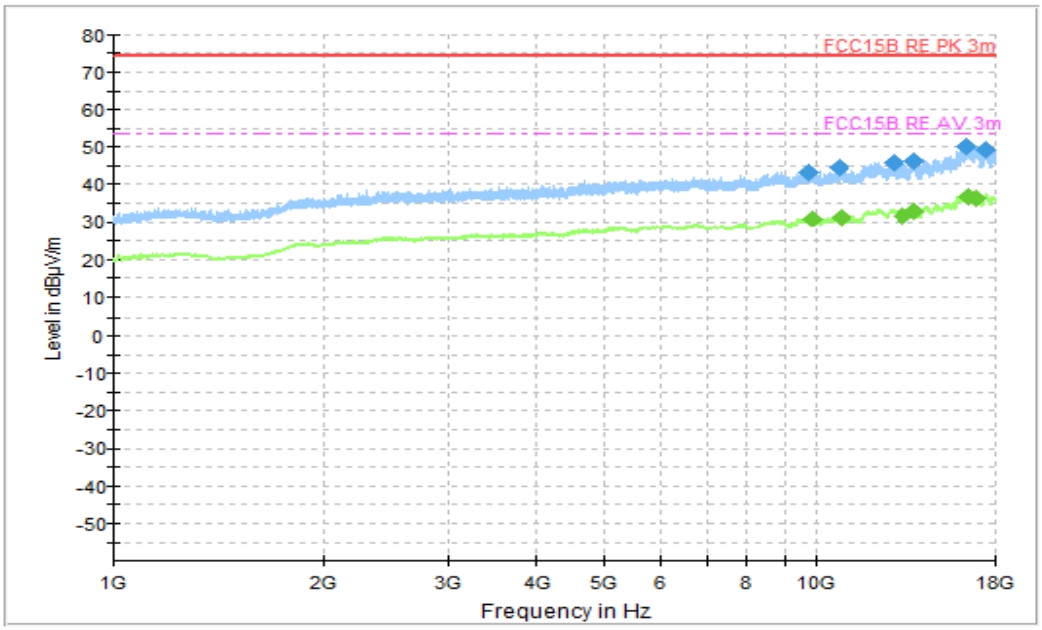
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8805.000000	29.59	54.00	24.41	V	5.5	24.09
9864.000000	30.55	54.00	23.45	V	6.4	24.15
12293.000000	32.08	54.00	21.92	H	8.3	23.78
13295.000000	31.96	54.00	22.04	V	8.3	23.66
16472.500000	36.53	54.00	17.47	V	14.7	21.83
17460.000000	35.86	54.00	18.14	H	14.1	21.76



Fugure A.1.3. 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_{Mea} (dBµV)
30.000000	31.40	40.00	8.60	V	-6.2	37.60
58.375000	23.39	40.00	16.61	V	-15.8	39.19
60.739444	20.79	40.00	19.21	V	-15.6	36.39
459.261667	25.06	46.02	20.96	V	-3.5	28.56
698.257778	29.26	46.02	16.76	V	1.1	28.16
938.513333	31.17	46.02	14.85	H	2.7	28.47



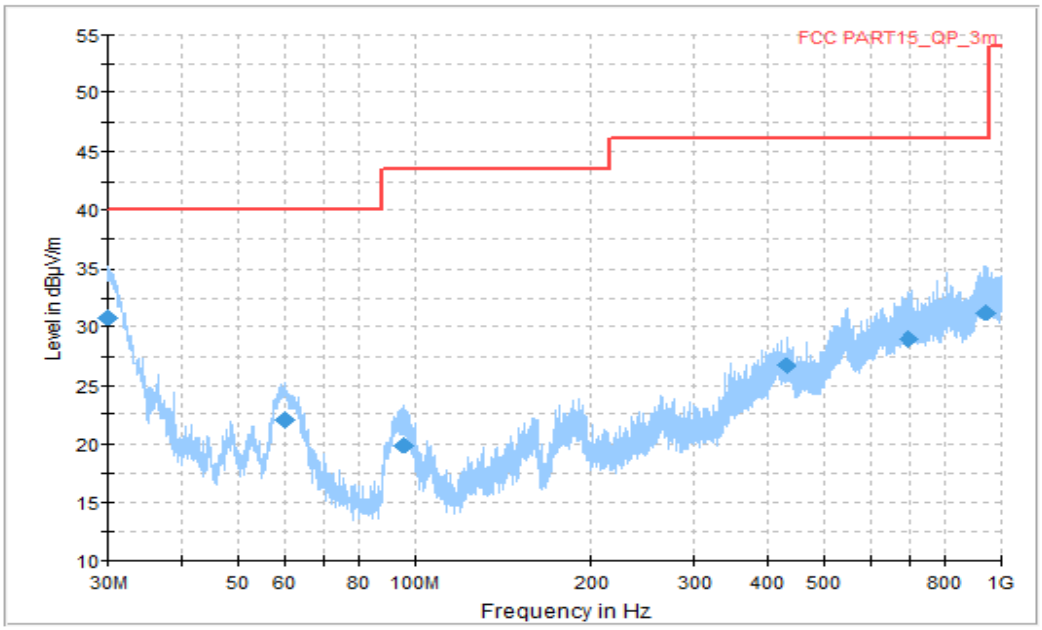
Fugure A.1.4. Radiated Emission (WCDMA Receiver Band 5, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9759.500000	43.56	74.00	30.44	H	6.5	37.06
10824.500000	44.89	74.00	29.11	H	7.1	37.79
12873.500000	46.05	74.00	27.95	H	8.7	37.35
13848.000000	46.41	74.00	27.59	V	9.0	37.41
16451.000000	50.03	74.00	23.97	H	14.7	35.33
17432.500000	49.18	74.00	24.82	V	14.1	35.08

Final_Results_AVG

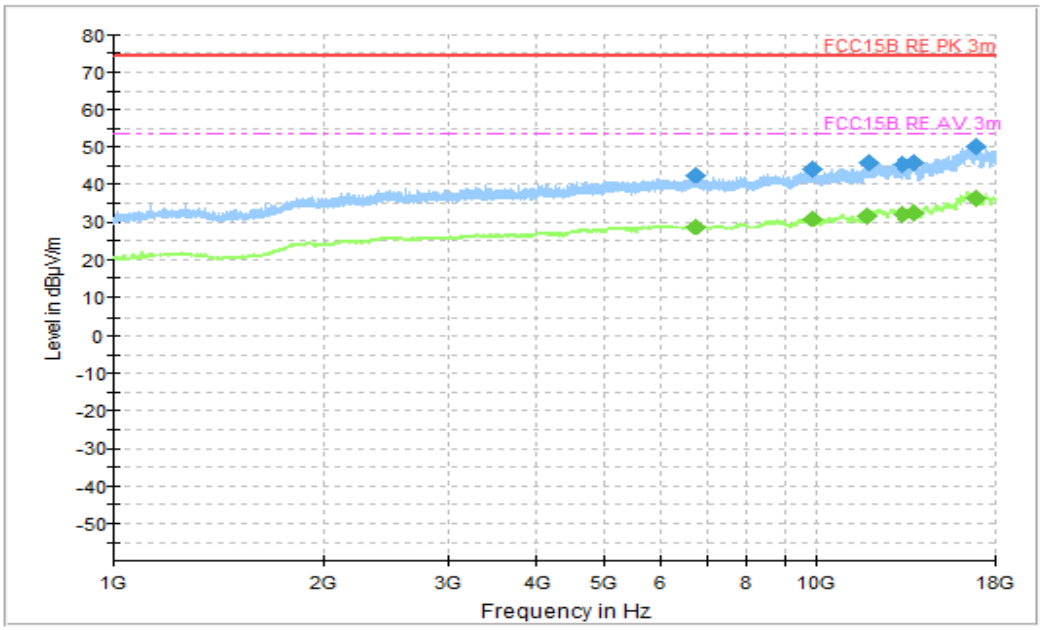
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9884.000000	30.81	54.00	23.19	V	6.4	24.41
10848.500000	31.26	54.00	22.74	V	7.1	24.16
13278.500000	32.00	54.00	22.00	H	8.3	23.7
13829.000000	32.88	54.00	21.12	H	9.0	23.88
16543.500000	36.60	54.00	17.40	H	14.8	21.8
16921.500000	36.39	54.00	17.61	V	14.8	21.59



Fugure A.1.5. Radiated Emission (LTE Receiver Band 12, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.000000	30.85	40.00	9.15	V	-6.2	37.05
60.224444	22.00	40.00	18.00	V	-15.6	37.60
95.445000	19.82	43.52	23.70	V	-14.6	34.42
429.878333	26.69	46.02	19.33	V	-4.3	30.99
698.059444	28.99	46.02	17.03	H	1.1	27.89
940.015556	31.20	46.02	14.82	V	2.8	28.40



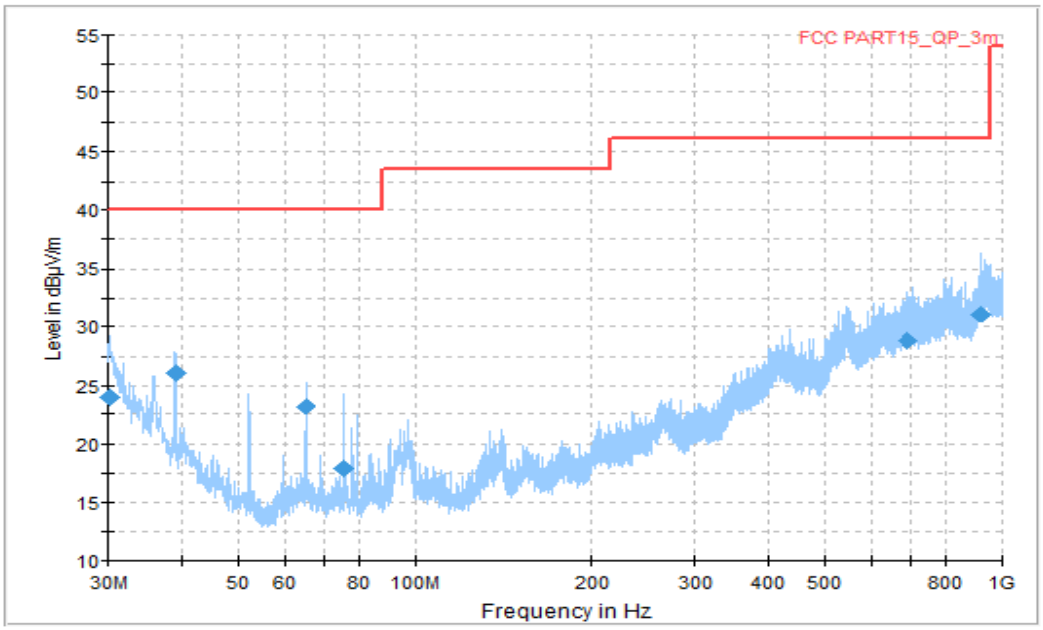
Fugure A.1.6. Radiated Emission (LTE Receiver Band 12 , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6765.000000	42.47	74.00	31.53	H	3.5	38.97
9870.500000	44.30	74.00	29.70	H	6.4	37.90
11901.500000	45.74	74.00	28.26	H	8.2	37.54
13273.000000	45.41	74.00	28.59	V	8.2	37.21
13801.500000	45.93	74.00	28.07	H	9.0	36.93
16929.000000	50.18	74.00	23.82	H	14.8	35.38

Final_Results_AVG

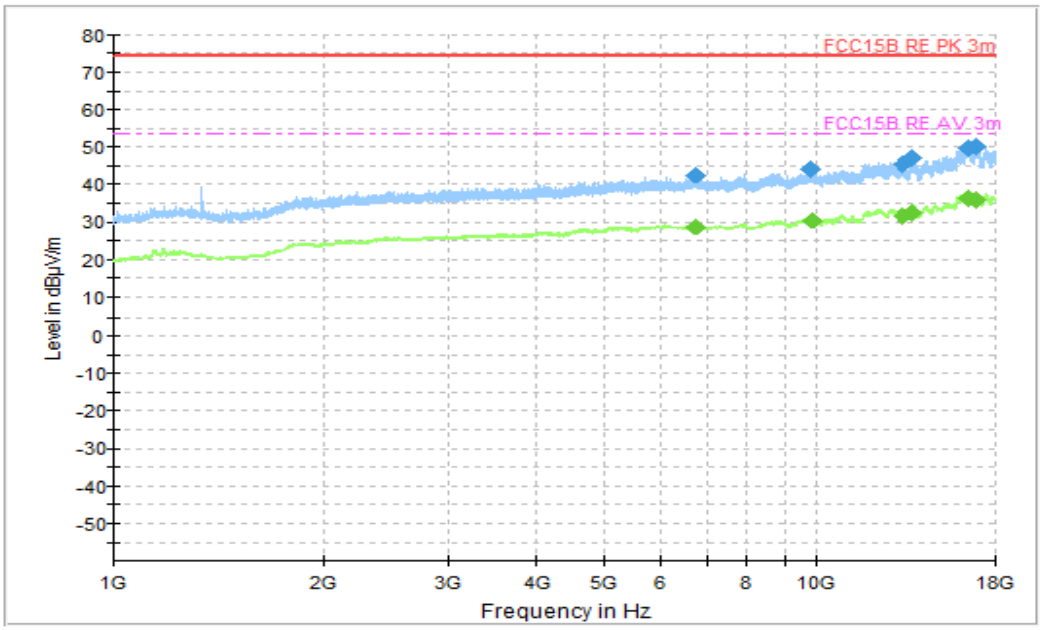
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6755.000000	29.10	54.00	24.90	V	3.5	25.60
9886.000000	30.92	54.00	23.08	V	6.4	24.52
11829.000000	31.72	54.00	22.28	V	8.2	23.52
13279.000000	32.03	54.00	21.97	V	8.3	23.73
13775.000000	32.53	54.00	21.47	V	9.0	23.53
16930.000000	36.26	54.00	17.74	V	14.8	21.46



Fugure A.1.7. 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_{Mea} (dBµV)
30.300000	23.96	40.00	16.04	V	-6.3	30.26
39.005556	26.03	40.00	13.97	V	-11.4	37.43
65.003889	23.18	40.00	16.82	V	-15.1	38.28
75.440000	17.89	40.00	22.11	V	-14.7	32.59
693.702778	28.83	46.02	17.19	V	1.0	27.83
924.226667	31.15	46.02	14.87	V	2.6	28.55



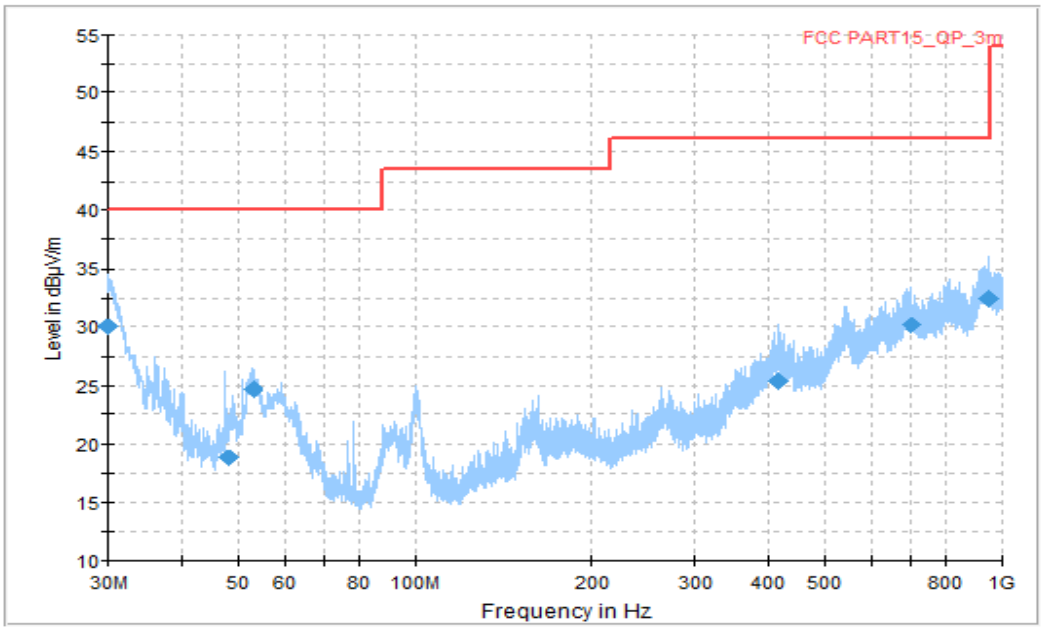
Fugure A.1.8. Radiated Emission (GSM Receiver 850MHz , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6773.000000	42.71	74.00	31.29	V	3.5	39.21
9845.000000	44.39	74.00	29.61	H	6.4	37.99
13285.000000	45.68	74.00	28.32	V	8.3	37.38
13745.500000	47.04	74.00	26.96	H	8.9	38.14
16480.000000	49.85	74.00	24.15	V	14.7	35.15
16945.000000	50.05	74.00	23.95	V	14.8	35.25

Final_Results_AVG

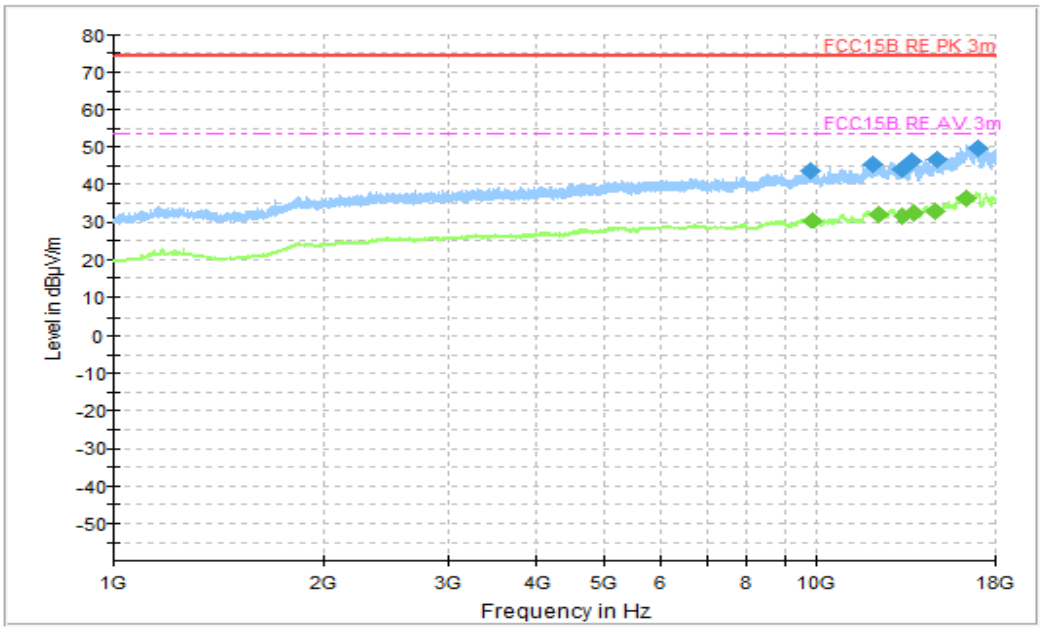
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6757.000000	29.07	54.00	24.93	H	3.5	25.57
9894.500000	30.61	54.00	23.39	V	6.4	24.21
13275.500000	31.90	54.00	22.10	V	8.2	23.7
13744.500000	32.57	54.00	21.43	H	8.9	23.67
16482.500000	36.49	54.00	17.51	V	14.7	21.79
16950.500000	36.05	54.00	17.95	H	14.8	21.25



Fugure A.1.9. 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_{Mea} (dBµV)
30.000000	30.09	40.00	9.91	V	-6.2	36.29
48.137778	18.87	40.00	21.13	V	-15.0	33.87
52.801111	24.65	40.00	15.35	V	-15.7	40.35
415.317222	25.39	46.02	20.63	V	-3.6	28.99
701.455556	30.12	46.02	15.90	V	1.1	29.02
947.297222	32.44	46.02	13.58	V	2.8	29.64



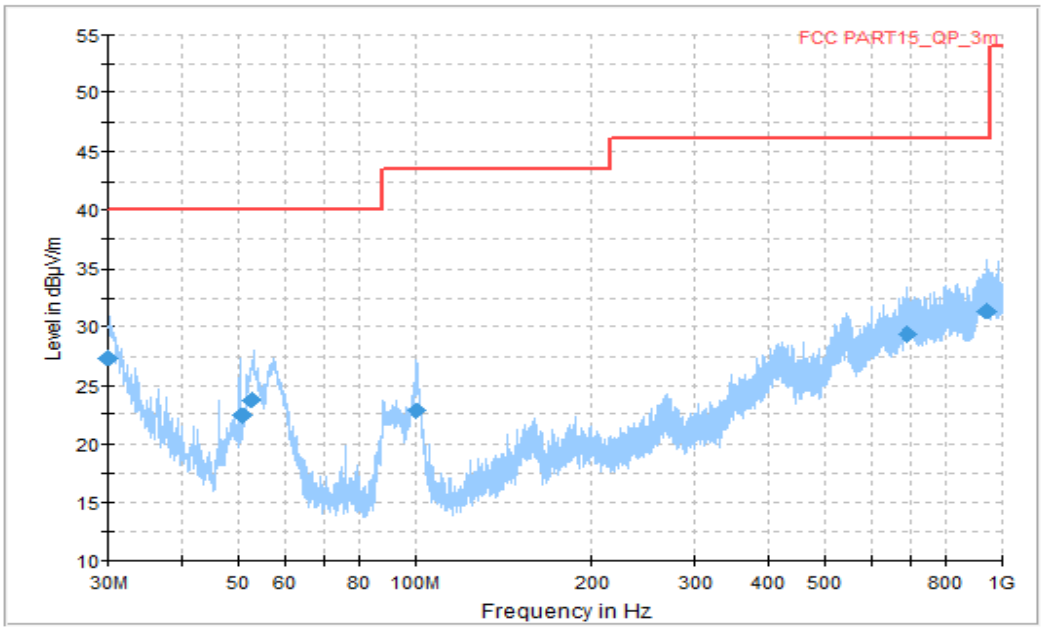
Fugure A.1.10. Radiated Emission (GSM Receiver 850MHz , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9849.500000	44.06	74.00	29.94	V	6.4	37.66
12093.000000	45.52	74.00	28.48	V	8.2	37.32
13190.500000	44.44	74.00	29.56	H	8.1	36.34
13750.500000	46.50	74.00	27.50	V	8.9	37.60
14839.500000	46.57	74.00	27.43	H	10.5	36.07
17004.000000	49.80	74.00	24.20	H	14.8	35.00

Final_Results_AVG

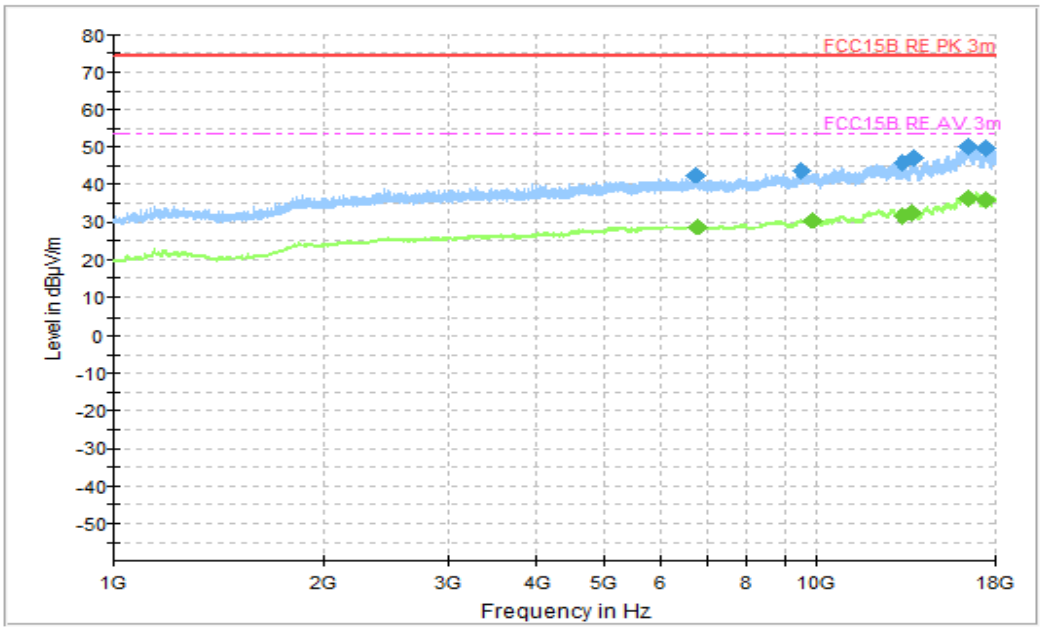
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9879.500000	30.55	54.00	23.45	V	6.4	24.15
12255.500000	32.10	54.00	21.90	H	8.3	23.80
13276.000000	31.89	54.00	22.11	V	8.2	23.69
13802.000000	32.66	54.00	21.34	H	9.0	23.66
14779.000000	32.88	54.00	21.12	H	10.5	22.38
16454.000000	36.37	54.00	17.63	H	14.7	21.67



Fugure A.1.11. 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_{Mea} (dBµV)
30.000000	27.42	40.00	12.58	V	-6.2	33.62
50.610000	22.46	40.00	17.54	V	-15.1	37.56
52.644444	23.82	40.00	16.18	V	-15.6	39.42
100.577222	22.77	43.52	20.75	V	-13.7	36.47
689.696667	29.32	46.02	16.70	V	0.9	28.42
941.052222	31.32	46.02	14.70	V	2.8	28.52



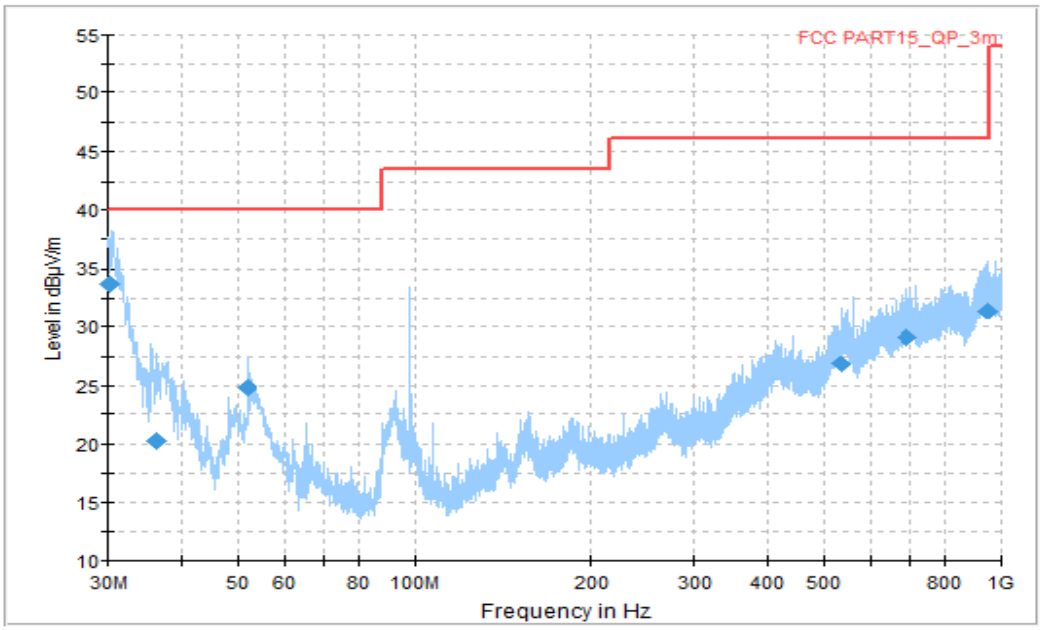
Fugure A.1.12. Radiated Emission (GSM Receiver 850MHz , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6759.500000	42.42	74.00	31.58	H	3.5	38.92
9557.500000	43.70	74.00	30.30	H	6.6	37.10
13277.500000	45.73	74.00	28.27	H	8.3	37.43
13821.500000	47.04	74.00	26.96	V	9.0	38.04
16514.000000	50.05	74.00	23.95	V	14.7	35.35
17469.000000	49.77	74.00	24.23	V	14.1	35.67

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6778.500000	28.85	54.00	25.15	H	3.5	25.35
9892.500000	30.59	54.00	23.41	H	6.4	24.19
13282.000000	31.93	54.00	22.07	V	8.3	23.63
13748.500000	32.51	54.00	21.49	H	8.9	23.61
16472.000000	36.38	54.00	17.62	V	14.7	21.68
17458.500000	35.76	54.00	18.24	V	14.1	21.66

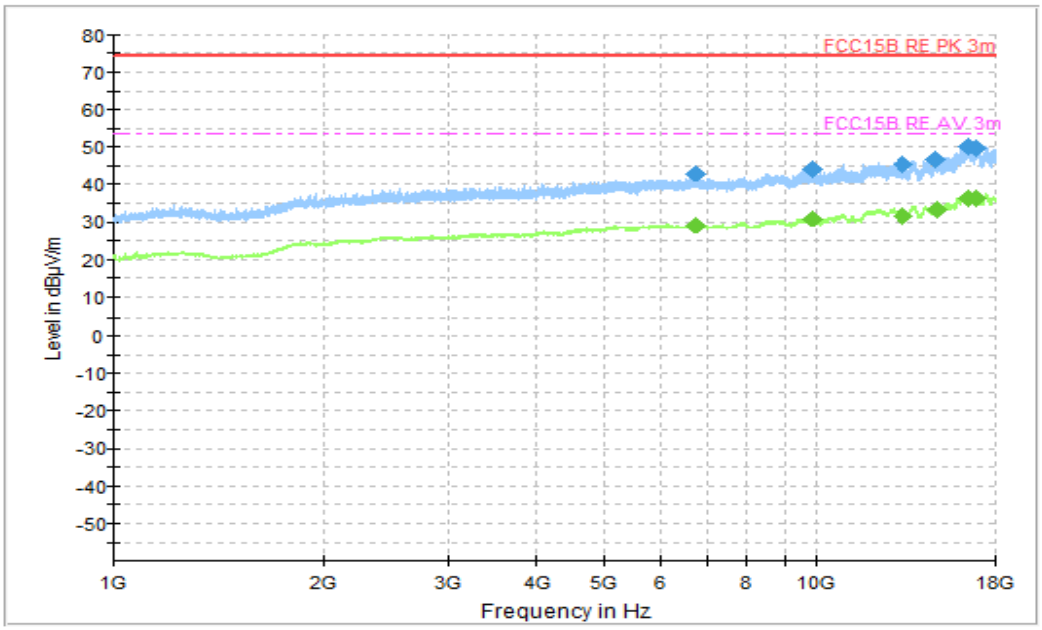


Fugure A.1.13. Radiated Emission (FM receiver, 30MHz to 1GHz)

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_{Mea} (dBµV)
30.240000	33.65	40.00	6.35	V	-6.3	39.95
36.228333	20.30	40.00	19.70	V	-9.8	30.1
51.986667	24.86	40.00	15.14	V	-15.5	40.36
534.262222	26.81	46.02	19.21	V	-0.8	27.61
690.910556	29.14	46.02	16.88	V	1.0	28.14
947.087222	31.41	46.02	14.61	V	2.8	28.61



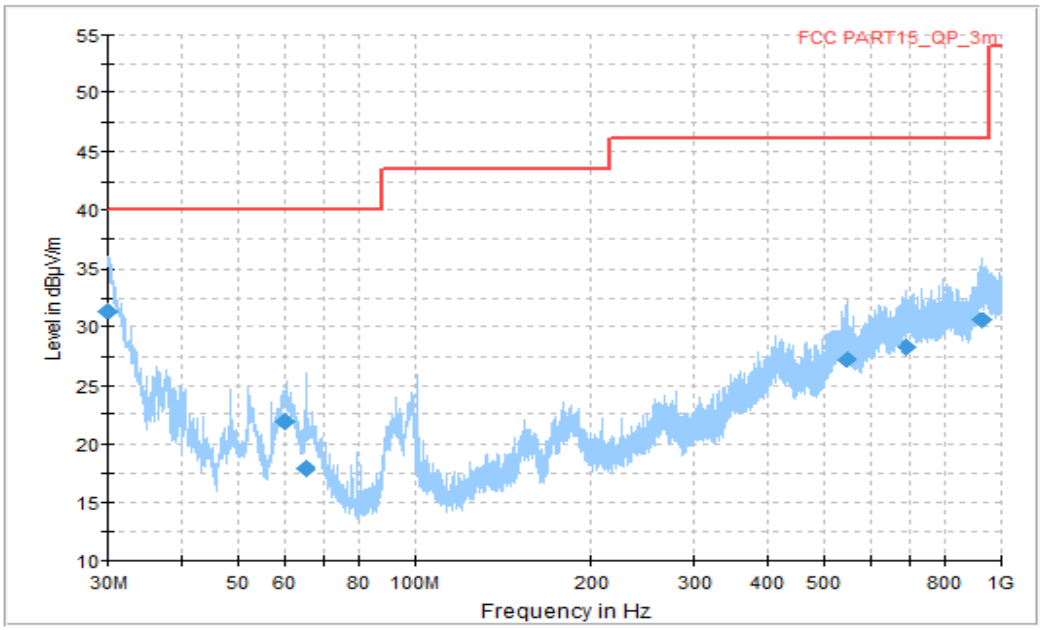
Fugure A.1.14. Radiated Emission (FM receiver , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6763.000000	43.08	74.00	30.92	H	3.5	39.58
9879.000000	44.31	74.00	29.69	H	6.4	37.91
13346.500000	45.35	74.00	28.65	H	8.4	36.95
14780.000000	46.64	74.00	27.36	V	10.5	36.14
16477.500000	50.00	74.00	24.00	V	14.7	35.3
16928.500000	49.59	74.00	24.41	H	14.8	34.79

Final_Results_AVG

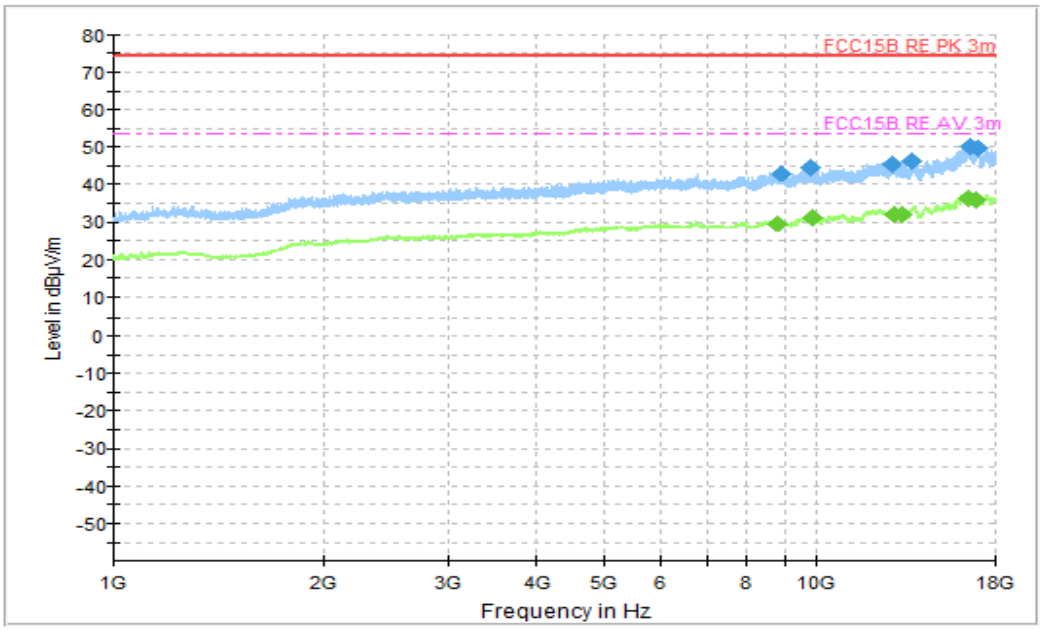
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6757.500000	29.16	54.00	24.84	V	3.5	25.66
9879.000000	31.05	54.00	22.95	H	6.4	24.65
13284.500000	31.98	54.00	22.02	V	8.3	23.68
14841.000000	33.38	54.00	20.62	V	10.5	22.88
16475.000000	36.42	54.00	17.58	V	14.7	21.72
16920.500000	36.24	54.00	17.76	H	14.8	21.44



Fugure A.1.15. Radiated Emission (Video Player , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.000000	31.33	40.00	8.67	V	**-6.2**	37.53
60.093333	21.90	40.00	18.10	V	**-15.6**	37.5
65.363889	17.82	40.00	22.18	V	**-15.0**	32.82
547.292222	27.18	46.02	18.84	H	**-0.2**	27.38
690.115000	28.27	46.02	17.75	H	**1.0**	27.27
931.716111	30.50	46.02	15.52	V	**2.7**	27.80



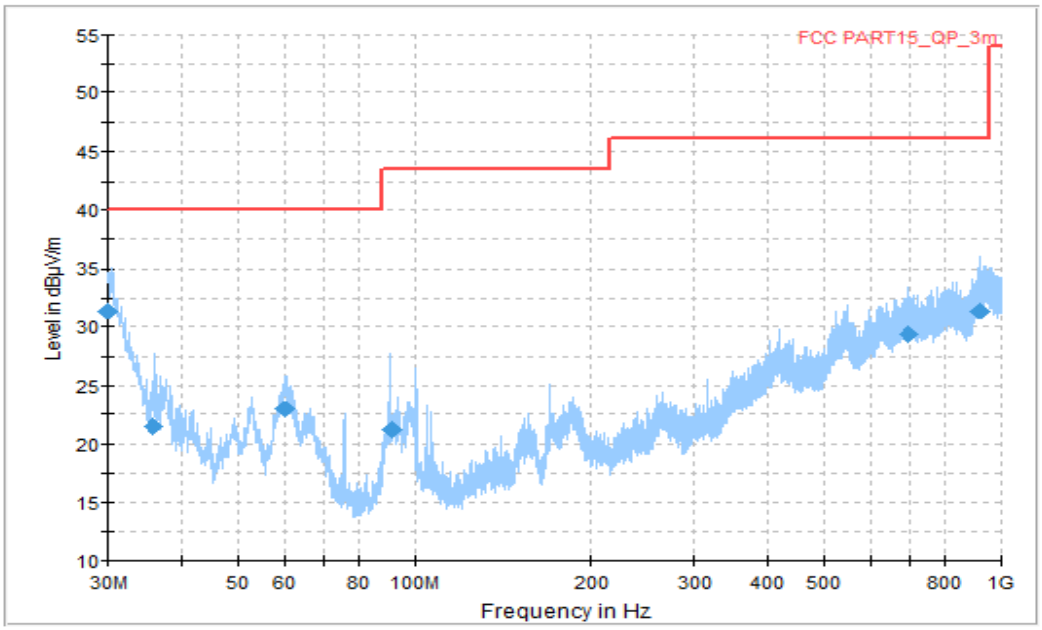
Fugure A.1.16. Radiated Emission (Video Player , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8893.000000	43.20	74.00	30.80	H	5.4	37.80
9824.000000	44.57	74.00	29.43	V	6.4	38.17
12803.500000	45.60	74.00	28.40	V	8.8	36.80
13742.000000	46.44	74.00	27.56	H	8.9	37.54
16581.500000	50.07	74.00	23.93	V	14.8	35.27
17011.500000	49.70	74.00	24.30	H	14.8	34.90

Final_Results_AVG

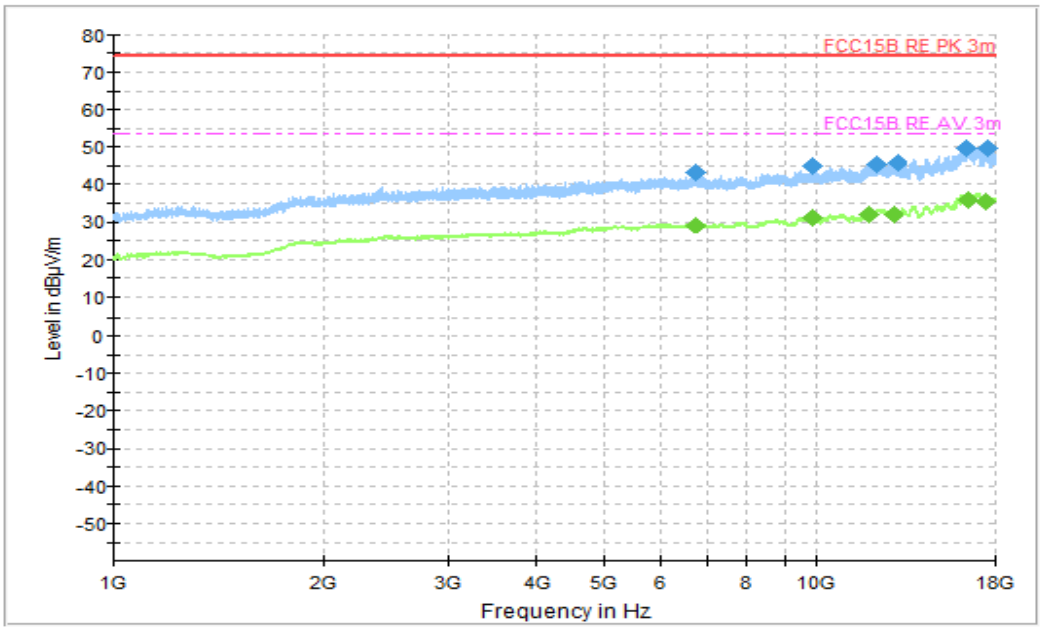
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8812.000000	29.82	54.00	24.18	H	5.5	24.32
9887.000000	31.21	54.00	22.79	V	6.4	24.81
12888.500000	32.35	54.00	21.65	H	8.7	23.65
13286.000000	32.03	54.00	21.97	V	8.3	23.73
16555.000000	36.40	54.00	17.60	V	14.8	21.6
16932.000000	36.17	54.00	17.83	H	14.8	21.37



Fugure A.1.17. Radiated Emission (Camera , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.000000	31.37	40.00	8.63	V	-6.2	37.57
35.897222	21.44	40.00	18.56	V	-9.5	30.94
60.267222	22.91	40.00	17.09	V	-15.6	38.51
91.326667	21.16	43.52	22.36	V	-15.0	36.16
698.550556	29.41	46.02	16.61	H	1.1	28.31
922.561667	31.31	46.02	14.71	H	2.4	28.91



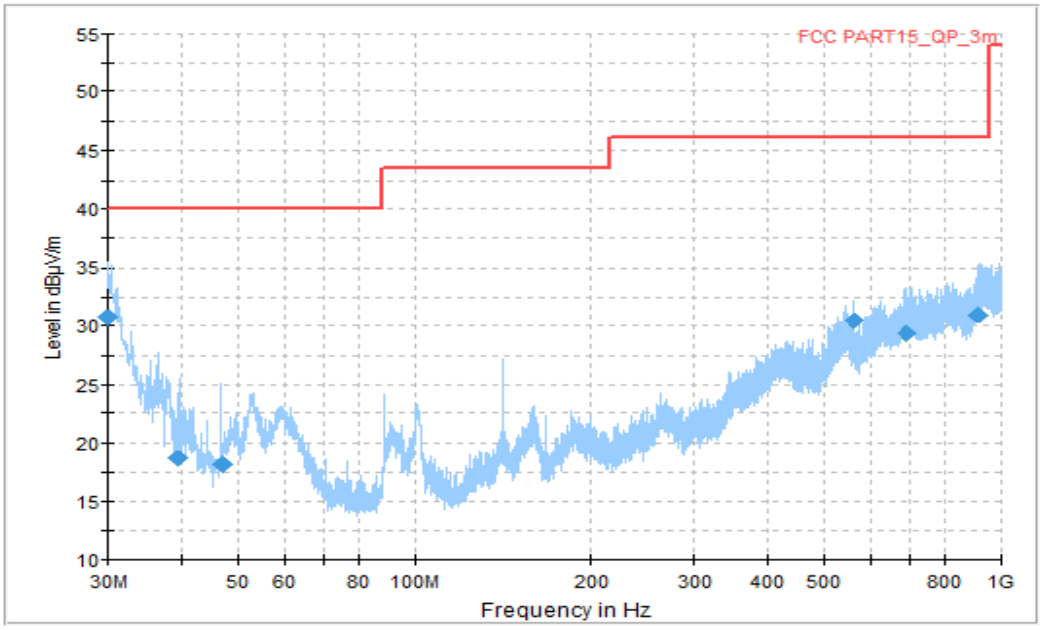
Fugure A.1.18. Radiated Emission (Camera ,1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6757.000000	43.28	74.00	30.72	H	3.5	39.78
9897.000000	45.27	74.00	28.73	H	6.4	38.87
12221.000000	45.62	74.00	28.38	V	8.2	37.42
13056.000000	46.07	74.00	27.93	H	8.4	37.67
16375.500000	49.72	74.00	24.28	V	14.6	35.12
17511.500000	49.55	74.00	24.45	H	14.0	35.55

Final_Results_AVG

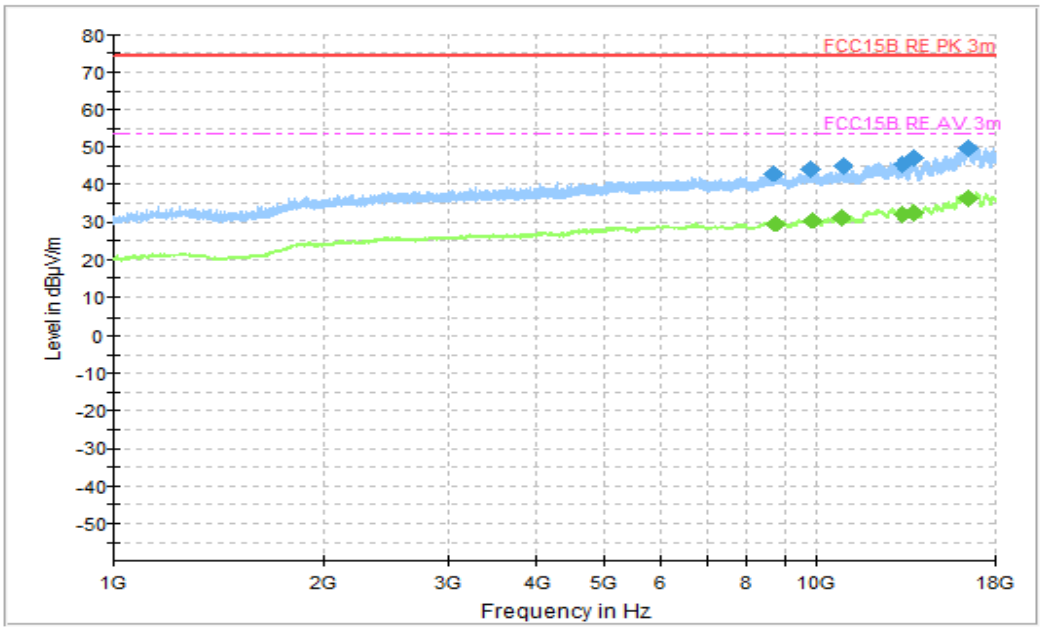
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6767.000000	29.31	54.00	24.69	V	3.5	25.81
9891.000000	31.37	54.00	22.63	V	6.4	24.97
11875.000000	32.25	54.00	21.75	H	8.2	24.05
12872.000000	32.19	54.00	21.81	H	8.7	23.49
16530.000000	36.15	54.00	17.85	V	14.8	21.35
17444.000000	35.58	54.00	18.42	V	14.1	21.48



Fugure A.1.19. Radiated Emission (GPS, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.030000	30.66	40.00	9.34	V	-6.3	36.96
39.472222	18.71	40.00	21.29	V	-11.6	30.31
46.999444	18.10	40.00	21.90	V	-14.8	32.90
562.530000	30.45	46.02	15.57	V	-1.8	32.25
693.863333	29.30	46.02	16.72	V	1.1	28.2
918.525000	31.00	46.02	15.02	V	2.1	28.90



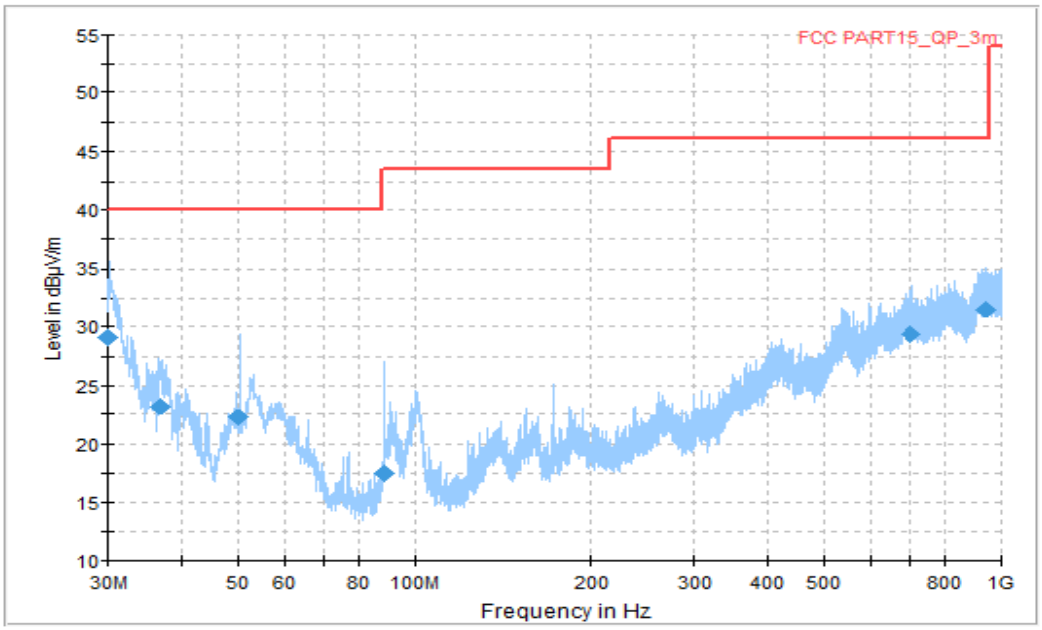
Fugure A.1.20. Radiated Emission (GPS, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8715.000000	42.99	74.00	31.01	V	5.5	37.49
9860.500000	44.25	74.00	29.75	V	6.4	37.85
10899.500000	45.11	74.00	28.89	V	7.0	38.11
13328.000000	45.72	74.00	28.28	V	8.4	37.32
13828.000000	47.03	74.00	26.97	H	9.0	38.03
16535.500000	49.80	74.00	24.20	V	14.8	35.00

Final_Results_AVG

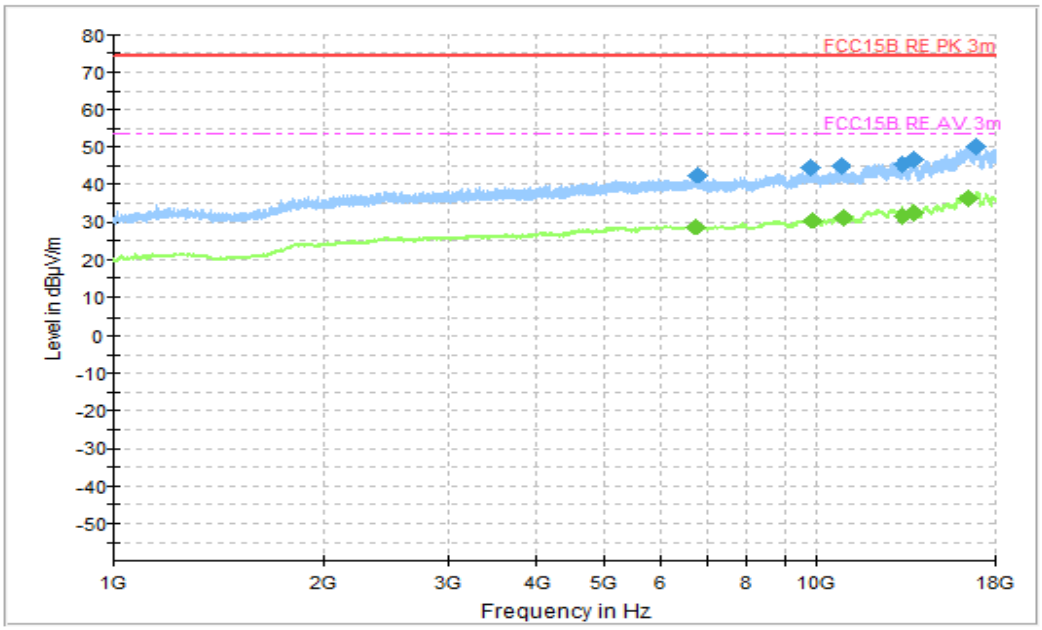
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8771.500000	29.58	54.00	24.42	V	5.4	24.18
9908.500000	30.61	54.00	23.39	H	6.4	24.21
10872.500000	31.40	54.00	22.60	H	7.1	24.30
13282.000000	32.06	54.00	21.94	V	8.3	23.76
13829.000000	32.84	54.00	21.16	H	9.0	23.84
16475.000000	36.58	54.00	17.42	H	14.7	21.88



Fugure A.1.21. Radiated Emission (GLONASS, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.000000	29.16	40.00	10.84	V	-6.2	35.36
37.006111	23.19	40.00	16.81	V	-10.3	33.49
49.823889	22.32	40.00	17.68	V	-15.0	37.32
89.027222	17.51	43.52	26.01	V	-15.3	32.81
703.492222	29.31	46.02	16.71	H	1.1	28.21
945.621111	31.53	46.02	14.49	V	2.9	28.63



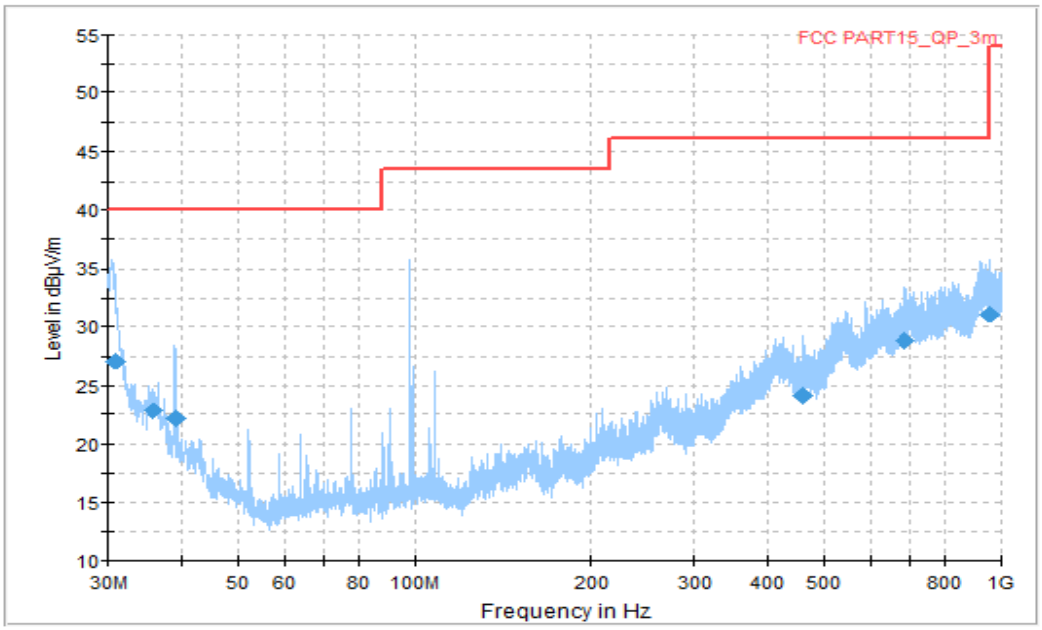
Fugure A.1.22. Radiated Emission (GLONASS, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6779.500000	42.57	74.00	31.43	H	3.5	39.07
9868.500000	44.62	74.00	29.38	H	6.4	38.22
10845.000000	45.12	74.00	28.88	H	7.1	38.02
13295.500000	45.67	74.00	28.33	H	8.3	37.37
13775.000000	46.81	74.00	27.19	H	9.0	37.81
16930.500000	50.16	74.00	23.84	V	14.8	35.36

Final_Results_AVG

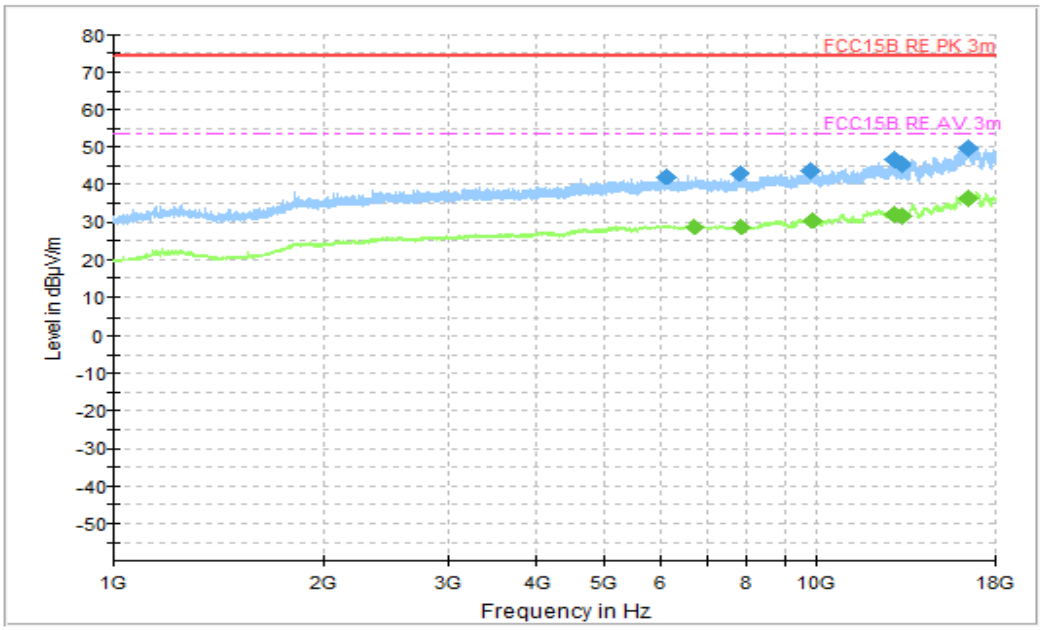
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6753.000000	28.94	54.00	25.06	H	3.5	25.44
9884.500000	30.67	54.00	23.33	H	6.4	24.27
10904.500000	31.47	54.00	22.53	V	7.0	24.47
13294.000000	31.95	54.00	22.05	V	8.3	23.65
13810.500000	32.75	54.00	21.25	H	9.0	23.75
16479.000000	36.57	54.00	17.43	V	14.7	21.87



Fugure A.1.23. Radiated Emission (FM receiver, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.930000	27.13	40.00	12.87	V	-6.5	33.63
35.827222	22.77	40.00	17.23	V	-9.5	32.27
39.005556	22.14	40.00	17.86	V	-11.4	33.54
460.817222	24.18	46.02	21.84	H	-3.5	27.68
685.290000	28.86	46.02	17.16	H	0.7	28.16
957.512222	31.16	46.02	14.86	V	2.5	28.66



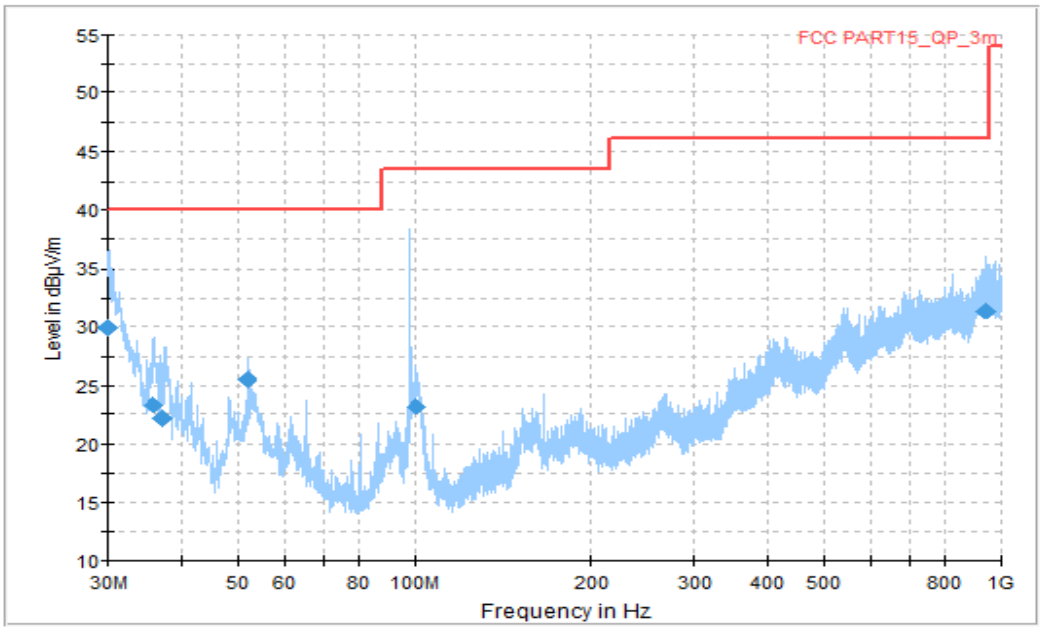
Fugure A.1.24. Radiated Emission (FM receiver, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6128.500000	42.17	74.00	31.83	H	2.8	39.37
7775.000000	42.93	74.00	31.07	V	4.1	38.83
9829.500000	43.69	74.00	30.31	V	6.4	37.29
12889.500000	46.94	74.00	27.06	V	8.7	38.24
13245.500000	45.32	74.00	28.68	V	8.1	37.22
16473.000000	49.70	74.00	24.30	H	14.7	35.00

Final_Results_AVG

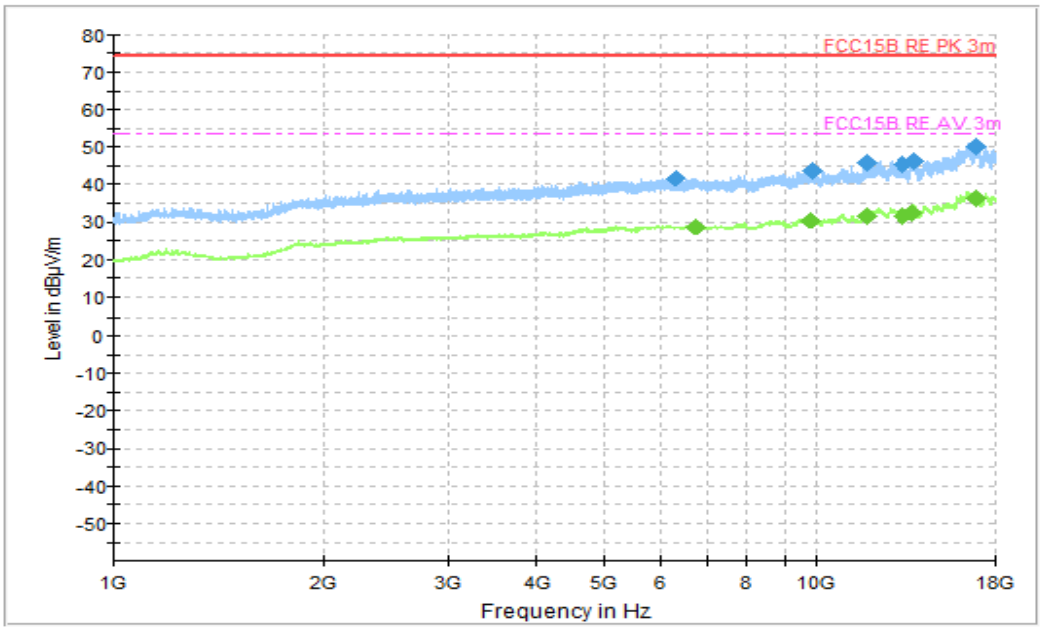
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6700.000000	28.90	54.00	25.10	V	3.5	25.40
7833.500000	28.93	54.00	25.07	H	4.2	24.73
9895.500000	30.62	54.00	23.38	H	6.4	24.22
12882.500000	32.27	54.00	21.73	V	8.7	23.57
13274.000000	31.89	54.00	22.11	V	8.2	23.69
16471.000000	36.39	54.00	17.61	H	14.7	21.69



Fugure A.1.25. Radiated Emission (FM receiver, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.000000	29.93	40.00	10.07	V	-6.2	36.13
35.891667	23.36	40.00	16.64	V	-9.5	32.86
37.250000	22.10	40.00	17.90	V	-10.5	32.60
51.992778	25.54	40.00	14.46	V	-15.5	41.04
100.366667	23.27	43.52	20.25	V	-13.8	37.07
944.871667	31.37	46.02	20.65	V	2.9	28.47



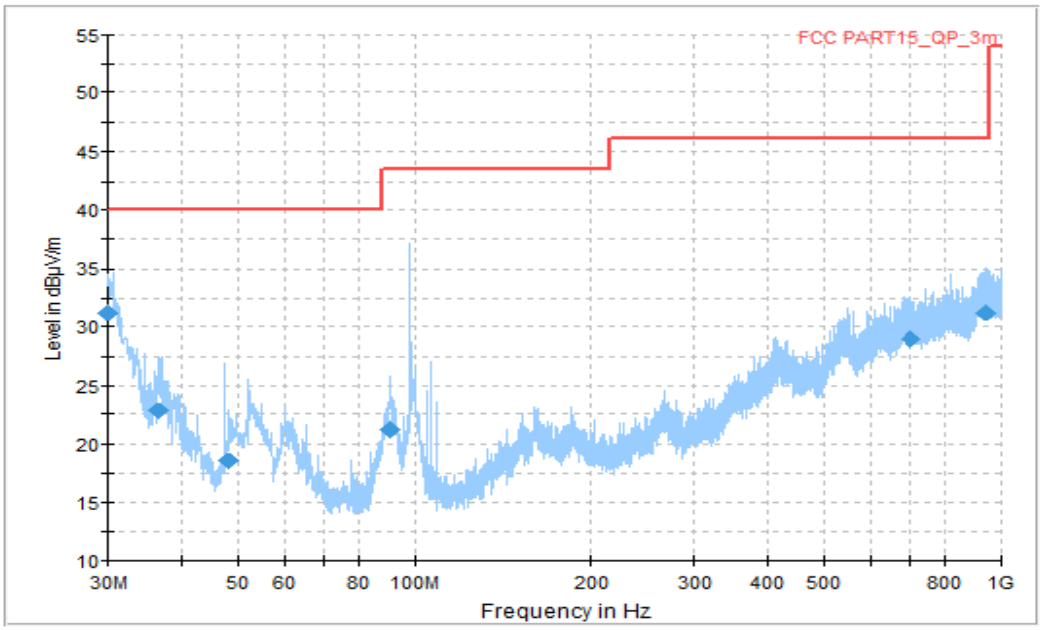
Fugure A.1.26. Radiated Emission (FM receiver, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6295.000000	41.80	74.00	32.20	H	3.0	38.80
9923.500000	43.92	74.00	30.08	V	6.3	37.62
11853.500000	45.87	74.00	28.13	H	8.2	37.67
13288.000000	45.39	74.00	28.61	V	8.3	37.09
13807.000000	46.27	74.00	27.73	V	9.0	37.27
16937.500000	49.89	74.00	24.11	H	14.8	35.09

Final_Results_AVG

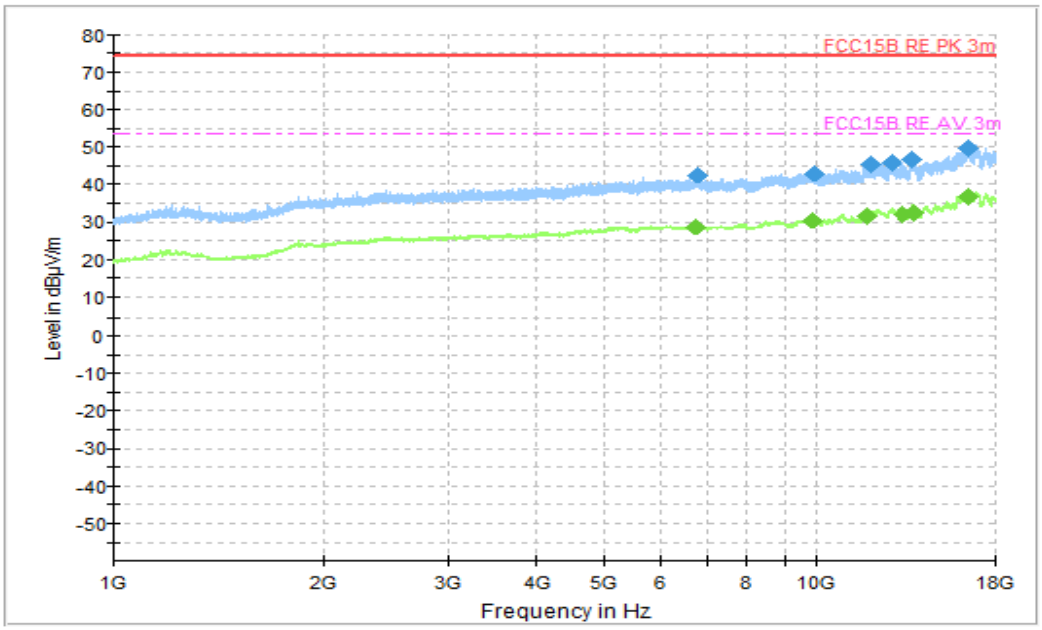
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6757.500000	29.03	54.00	24.97	H	3.5	25.53
9864.500000	30.51	54.00	23.49	V	6.4	24.11
11870.500000	31.94	54.00	22.06	V	8.2	23.74
13281.000000	31.97	54.00	22.03	V	8.3	23.67
13766.000000	32.71	54.00	21.29	V	9.0	23.71
16934.000000	36.37	54.00	17.63	V	14.8	21.57



Fugure A.1.27. Radiated Emission (FM receiver, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.046667	31.19	40.00	8.81	V	-6.3	37.49
36.681111	22.76	40.00	17.24	V	-10.1	32.86
48.000000	18.57	40.00	21.43	V	-15.0	33.57
91.002222	21.19	43.52	22.33	V	-15.0	36.19
699.251667	29.02	46.02	17.00	H	1.1	27.92
941.476667	31.25	46.02	14.77	V	2.9	28.35



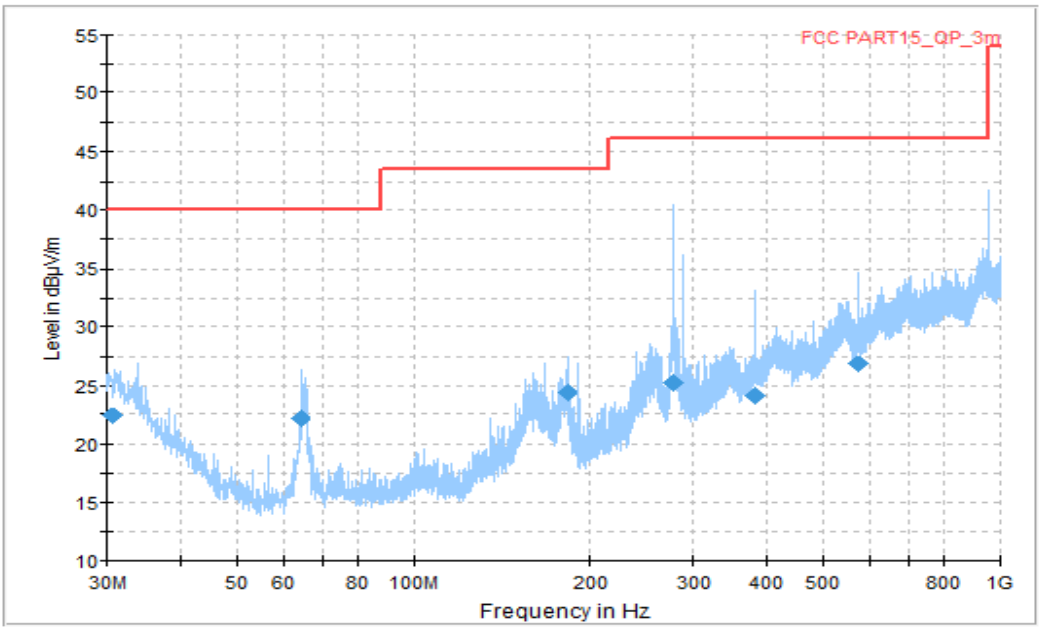
Fugure A.1.28. Radiated Emission (FM receiver, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6783.500000	42.61	74.00	31.39	V	3.5	39.11
9943.000000	43.09	74.00	30.91	H	6.3	36.79
11964.500000	45.40	74.00	28.60	H	8.2	37.20
12857.500000	45.99	74.00	28.01	H	8.8	37.19
13765.500000	46.69	74.00	27.31	H	9.0	37.69
16535.500000	49.71	74.00	24.29	V	14.8	34.91

Final_Results_AVG

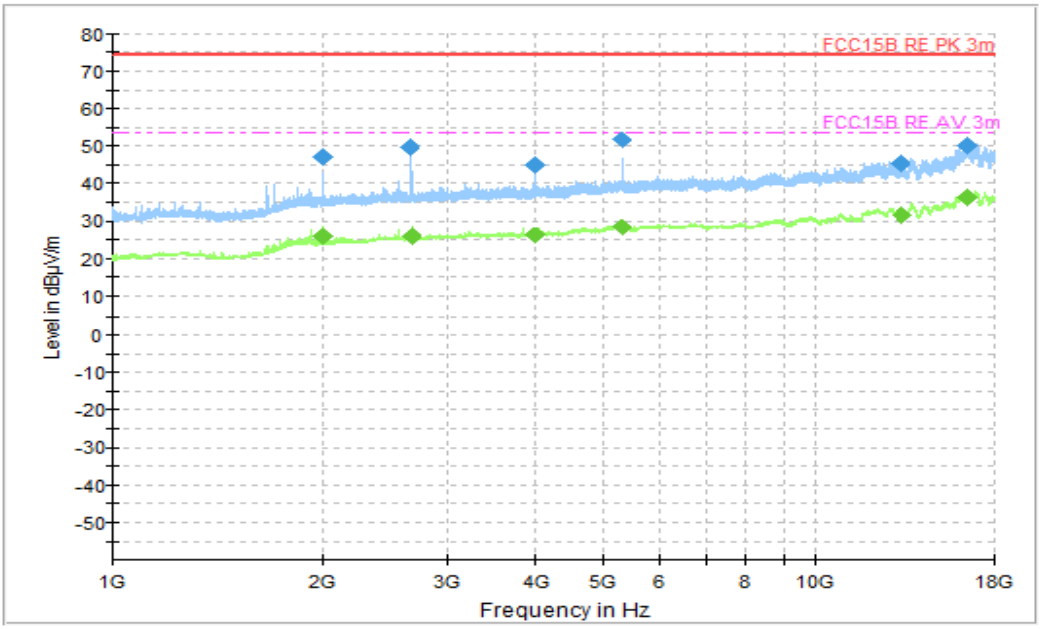
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6756.500000	28.99	54.00	25.01	V	3.5	25.49
9879.000000	30.47	54.00	23.53	H	6.4	24.07
11853.500000	31.94	54.00	22.06	V	8.2	23.74
13281.500000	32.07	54.00	21.93	H	8.3	23.77
13768.500000	32.82	54.00	21.18	V	9.0	23.82
16479.000000	36.62	54.00	17.38	V	14.7	21.92



Fugure A.1.29. 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_{Mea} (dBµV)
30.706111	22.41	40.00	17.59	V	-6.5	28.91
64.357222	22.12	40.00	17.88	V	-15.1	37.22
182.457778	24.42	43.52	19.10	H	-12.1	36.52
276.008889	25.23	46.02	21.79	H	-9.0	34.23
383.996111	24.15	46.02	21.87	H	-4.8	28.95
576.002222	26.87	46.02	19.15	H	-1.8	28.67



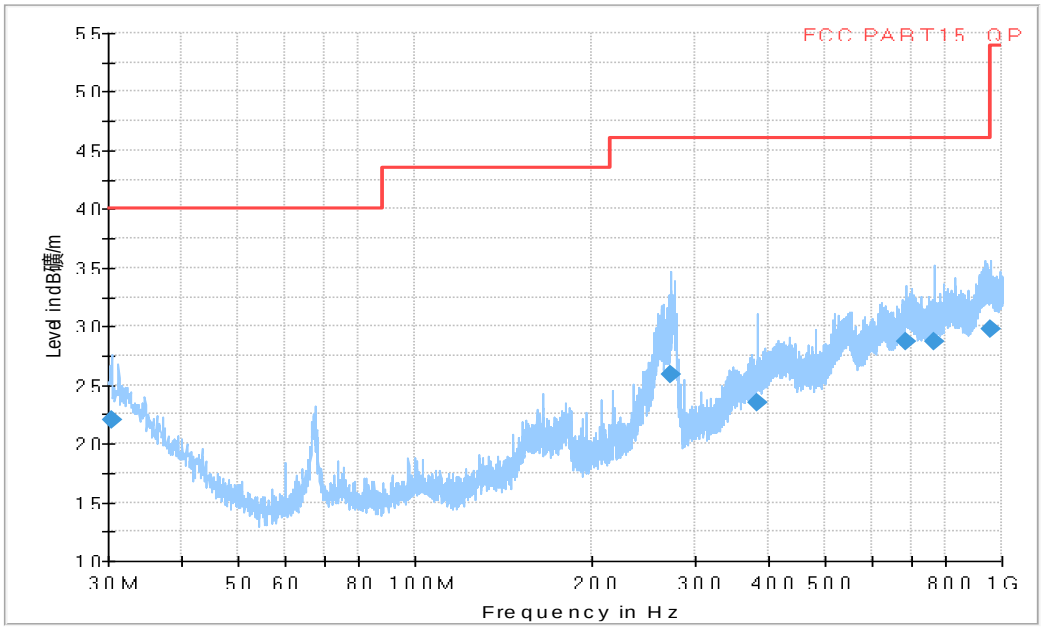
Fugure A.1.30. Radiated Emission (Data Transfer : EUT to PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1996.000000	47.34	74.00	26.66	V	-5.9	53.24
2654.000000	49.54	74.00	24.46	V	-4.1	53.64
3991.500000	44.92	74.00	29.08	V	-1.8	46.72
5321.000000	51.66	74.00	22.34	V	1.6	50.06
13253.000000	45.48	74.00	28.52	H	8.2	37.28
16471.000000	50.01	74.00	23.99	H	14.7	35.31

Final_Results_AVG

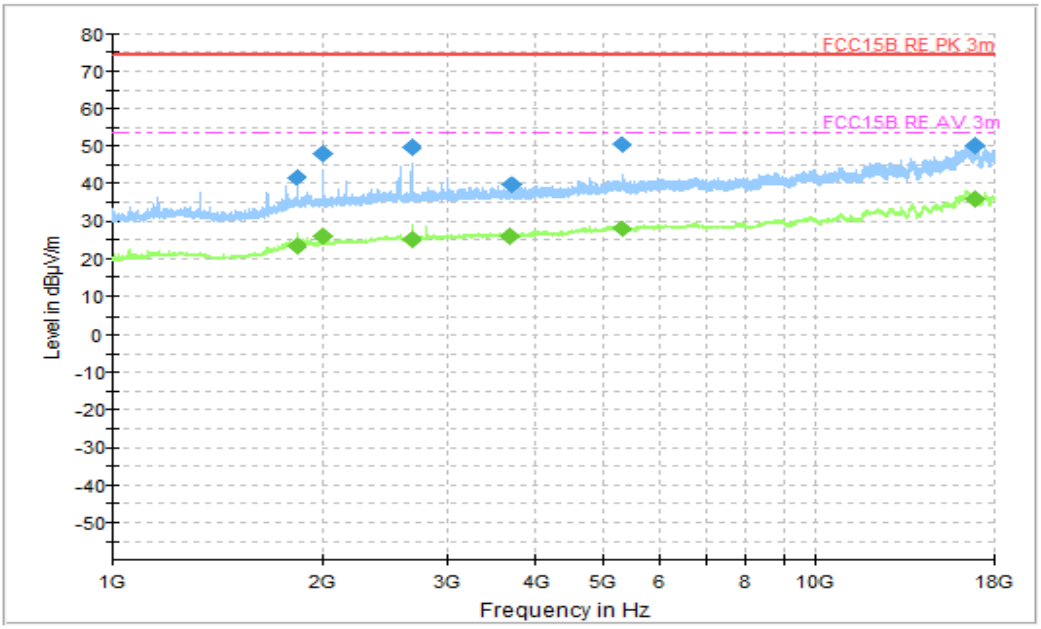
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1999.500000	25.85	54.00	28.15	V	-5.9	31.75
2658.500000	25.84	54.00	28.16	V	-4.1	29.94
3991.500000	26.24	54.00	27.76	V	-1.8	28.04
5315.000000	28.33	54.00	25.67	V	1.6	26.73
13293.000000	31.79	54.00	22.21	V	8.3	23.49
16472.000000	36.28	54.00	17.72	H	14.7	21.58



Fugure A.1.31. 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_{Mea} (dBµV)
30.480000	22.00	40.00	18.00	H	-6.4	28.40
273.661667	25.91	46.02	20.11	H	-8.7	34.61
384.002222	23.51	46.02	22.51	H	-4.8	28.31
688.301111	28.65	46.02	17.37	V	0.9	27.75
768.428333	28.68	46.02	17.34	H	0.7	27.98
956.638333	29.82	46.02	16.20	H	2.5	27.98



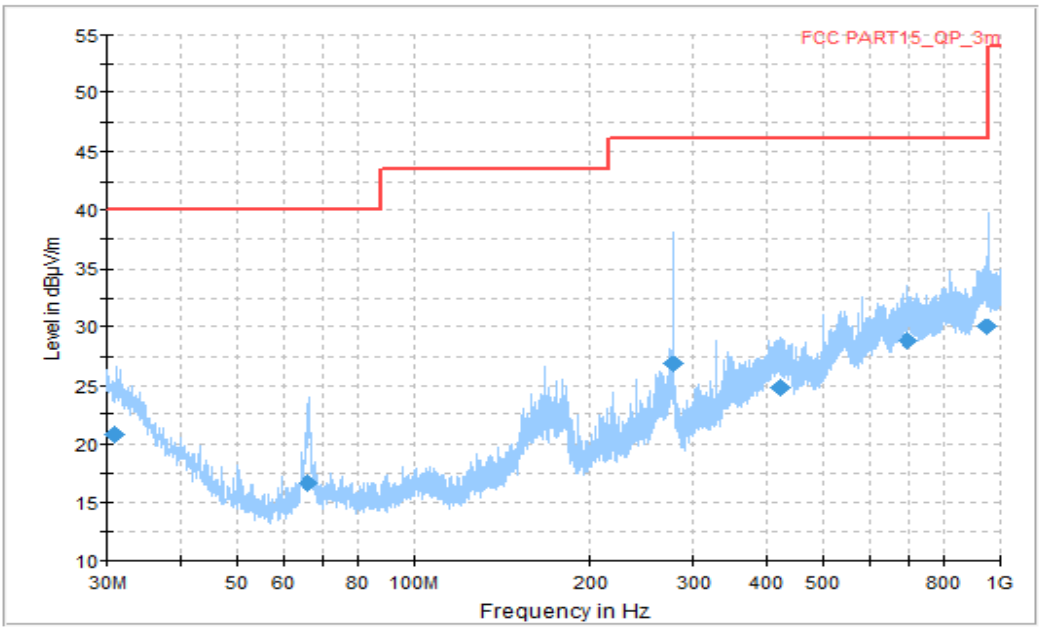
Fugure A.1.32. Radiated Emission (Data Transfer : PC to EUT, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1826.000000	41.75	74.00	32.25	V	-6.8	48.55
1998.500000	48.12	74.00	25.88	V	-5.9	54.02
2656.500000	49.81	74.00	24.19	V	-4.1	53.91
3703.000000	39.60	74.00	34.40	V	-2.2	41.80
5317.000000	50.47	74.00	23.53	V	1.6	48.87
16919.500000	49.98	74.00	24.02	H	14.8	35.18

Final_Results_AVG

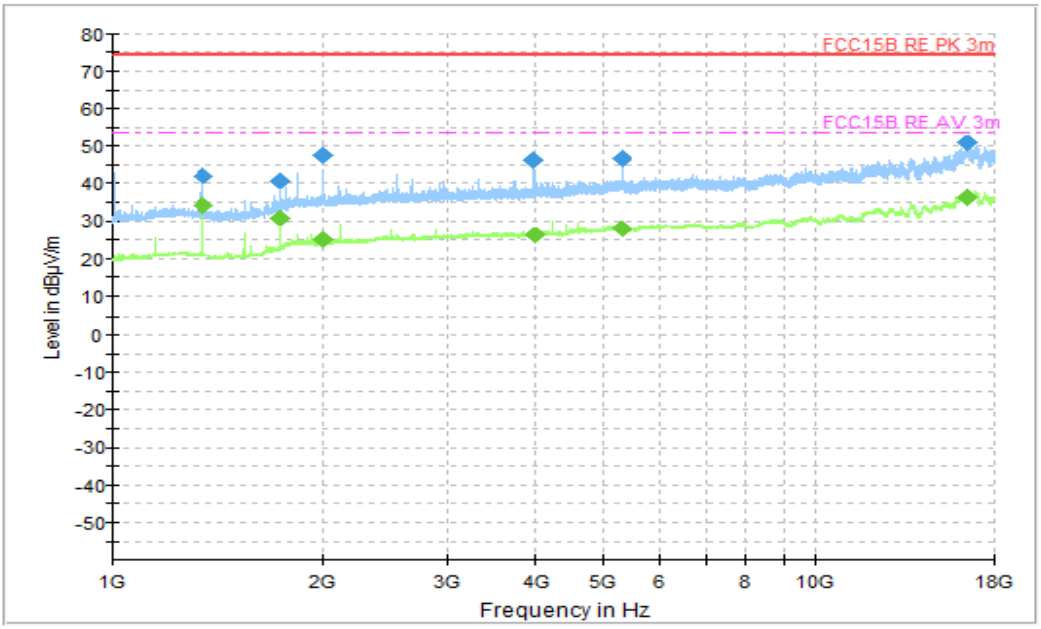
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
1826.000000	23.51	54.00	30.49	V	-6.8	30.31
1998.500000	25.80	54.00	28.20	V	-5.9	31.7
2664.000000	25.29	54.00	28.71	V	-4.1	29.39
3665.500000	25.81	54.00	28.19	V	-2.3	28.11
5312.000000	27.90	54.00	26.10	V	1.6	26.3
16914.500000	35.97	54.00	18.03	H	14.8	21.17



Fugure A.1.33. 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_{Mea} (dBµV)
30.945556	20.78	40.00	19.22	H	-6.5	27.28
66.248889	16.62	40.00	23.38	V	-14.9	31.52
275.996667	26.76	46.02	19.26	H	-9.0	35.76
422.563333	24.78	46.02	21.24	V	-4.0	28.78
696.867778	28.82	46.02	17.20	H	1.1	27.72
952.746667	29.97	46.02	16.05	H	2.7	27.27



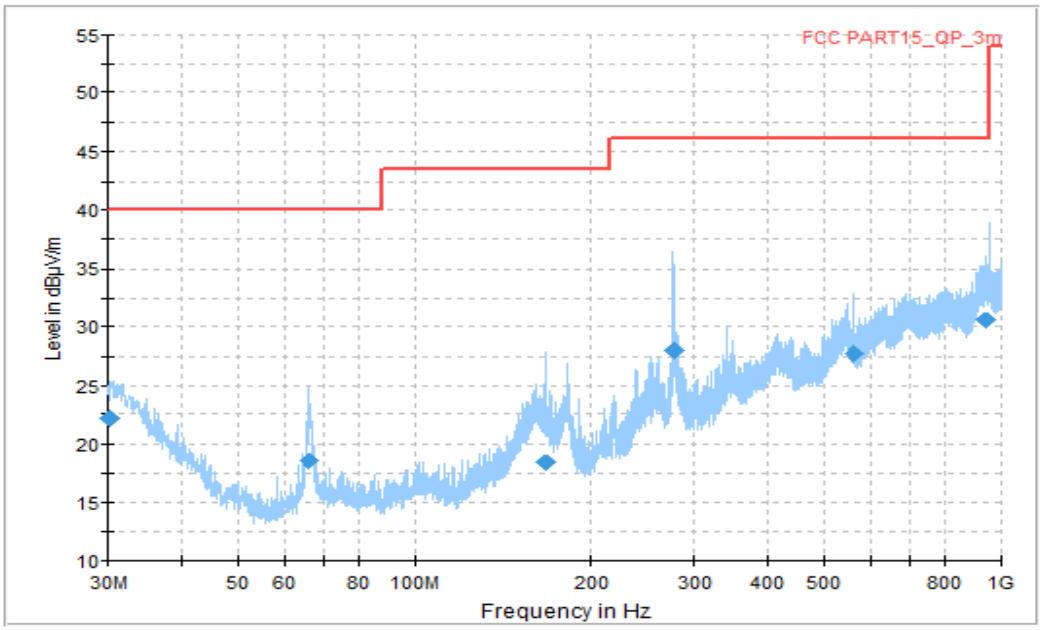
Fugure A.1.34. Radiated Emission (Data Transfer : PC to TF Card, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1344.000000	42.09	74.00	31.91	H	-9.6	51.69
1728.000000	40.87	74.00	33.13	H	-8.1	48.97
1992.500000	47.61	74.00	26.39	V	-5.9	53.51
3985.000000	46.32	74.00	27.68	V	-1.8	48.12
5318.500000	46.91	74.00	27.09	V	1.6	45.31
16480.000000	50.79	74.00	23.21	H	14.7	36.09

Final_Results_AVG

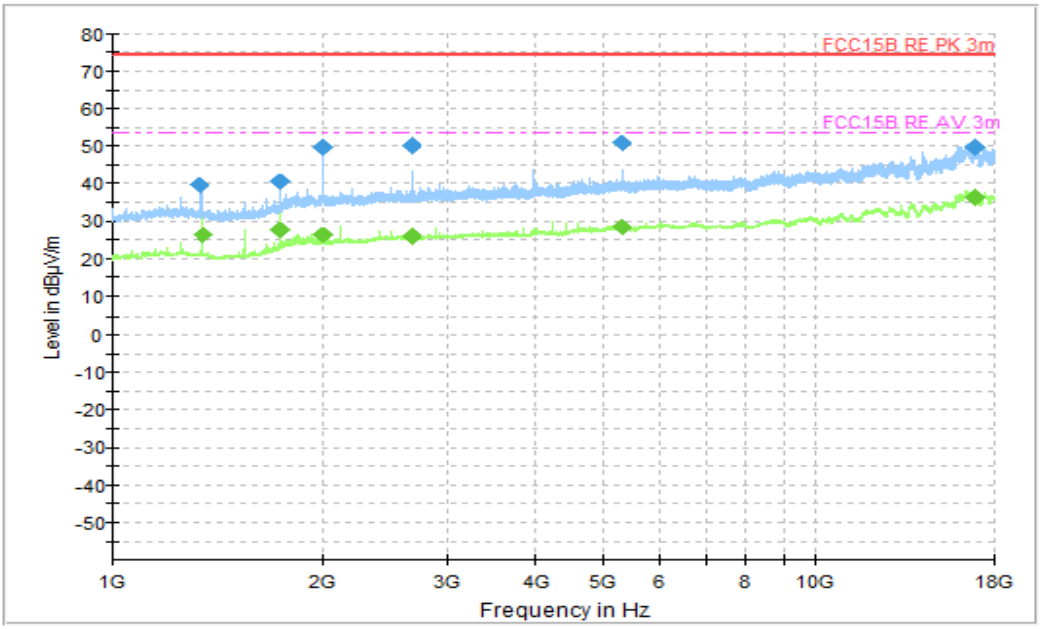
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1344.000000	34.11	54.00	19.89	H	-9.6	43.71
1728.000000	30.78	54.00	23.22	H	-8.1	38.88
1996.000000	25.01	54.00	28.99	V	-5.9	30.91
3991.000000	26.46	54.00	27.54	V	-1.8	28.26
5318.000000	27.95	54.00	26.05	V	1.6	26.35
16475.000000	36.38	54.00	17.62	H	14.7	21.68



Fugure A.1.35. 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_{Mea} (dBµV)
30.300000	22.10	40.00	17.90	H	-6.3	28.40
66.153333	18.51	40.00	21.49	V	-14.9	33.41
168.003333	18.35	43.52	25.17	V	-13.2	31.55
276.009444	27.98	46.02	18.04	H	-9.0	36.98
562.530000	27.77	46.02	18.25	V	-1.8	29.57
944.273333	30.55	46.02	15.47	V	3.0	27.55



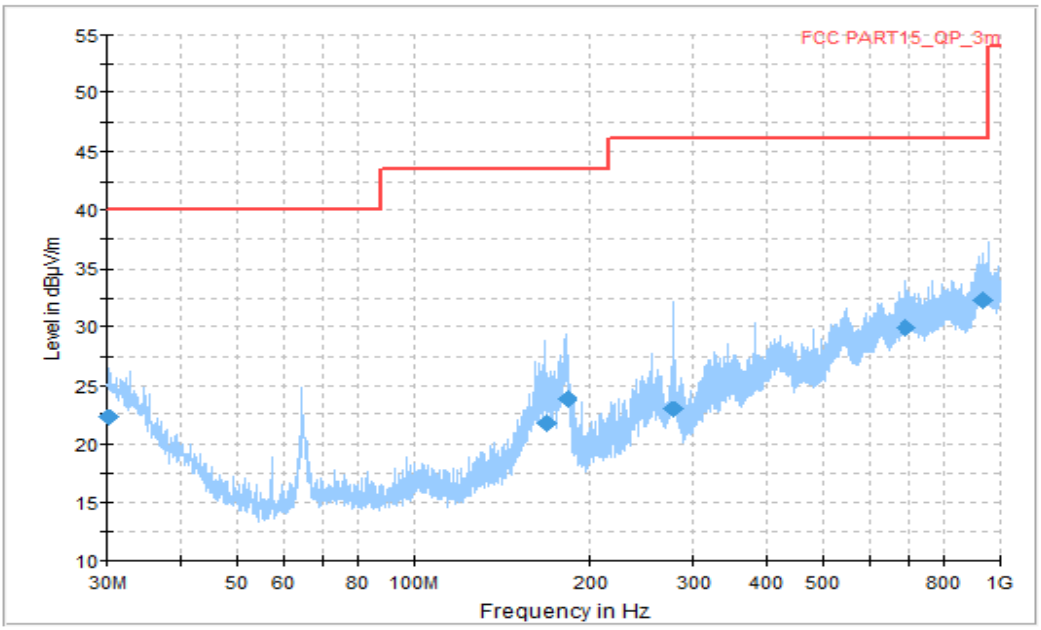
Fugure A.1.36. Radiated Emission (Data Transfer : TF Card to PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1330.000000	39.91	74.00	34.09	V	-9.7	49.61
1727.500000	40.74	74.00	33.26	H	-8.1	48.84
1997.000000	49.77	74.00	24.23	V	-5.9	55.67
2662.000000	50.15	74.00	23.85	V	-4.1	54.25
5317.500000	50.80	74.00	23.20	V	1.6	49.2
16941.000000	49.69	74.00	24.31	V	14.8	34.89

Final_Results_AVG

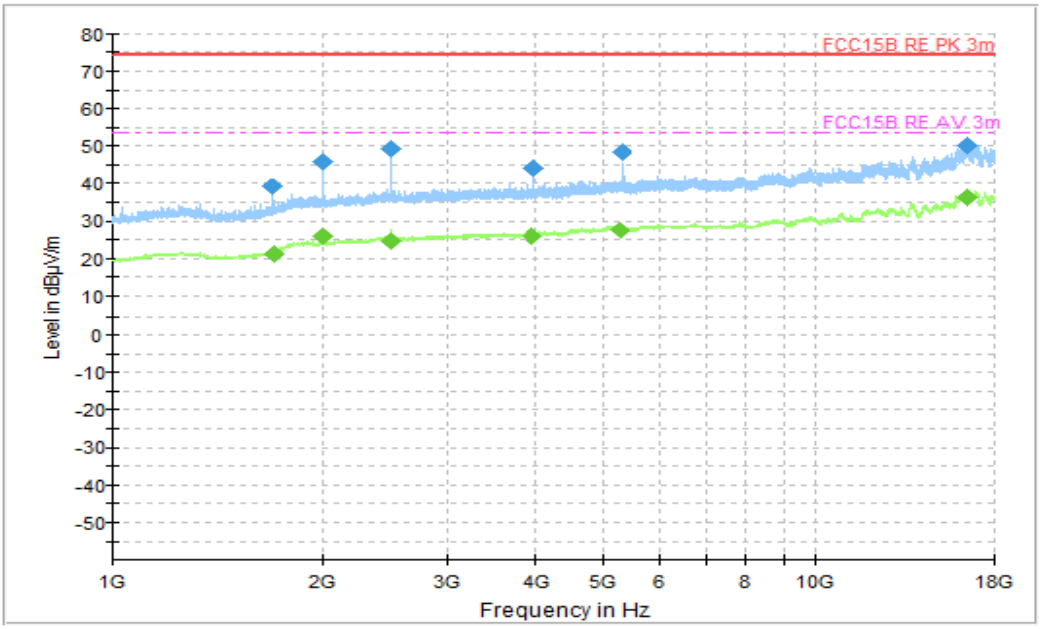
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1344.000000	26.22	54.00	27.78	H	-9.6	35.82
1728.000000	27.76	54.00	26.24	H	-8.1	35.86
1995.000000	26.61	54.00	27.39	V	-5.9	32.51
2662.000000	26.06	54.00	27.94	V	-4.1	30.16
5312.000000	28.35	54.00	25.65	V	1.6	26.75
16921.000000	36.18	54.00	17.82	V	14.8	21.38



Fugure A.1.37. 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_{Mea} (dBµV)
30.270000	22.25	40.00	17.75	H	-6.3	28.55
168.345556	21.78	43.52	21.74	H	-13.2	34.98
182.698333	23.83	43.52	19.69	H	-12.1	35.93
276.356667	22.98	46.02	23.04	H	-9.0	31.98
692.235000	29.89	46.02	16.13	V	1.0	28.89
934.069444	32.33	46.02	13.69	V	2.7	29.63



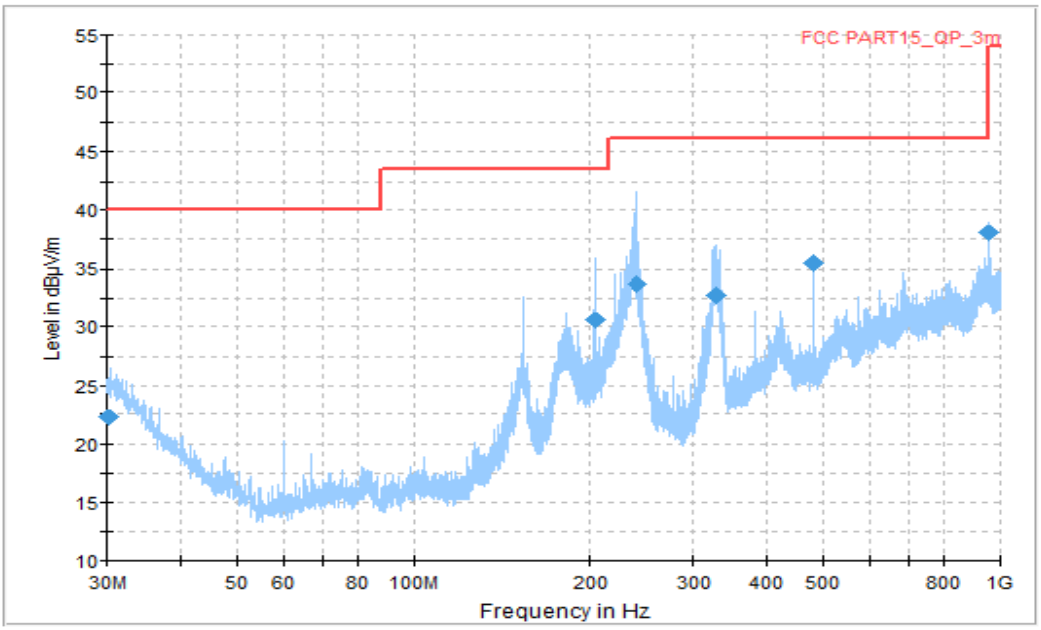
Fugure A.1.38. Radiated Emission (Data Transfer : TF Card to PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1692.500000	39.37	74.00	34.63	V	-8.4	47.77
1997.500000	45.94	74.00	28.06	V	-5.9	51.84
2490.000000	49.32	74.00	24.68	V	-4.4	53.72
3984.500000	44.29	74.00	29.71	V	-1.8	46.09
5316.000000	48.51	74.00	25.49	V	1.6	46.91
16514.000000	50.19	74.00	23.81	H	14.7	35.49

Final_Results_AVG

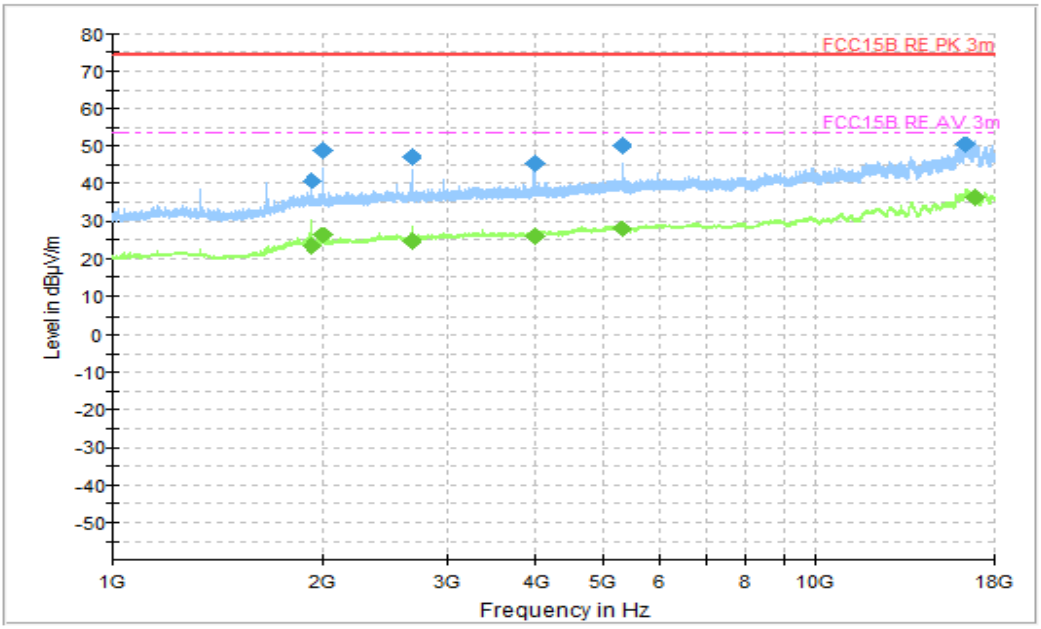
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1694.000000	21.55	54.00	32.45	V	-8.4	29.95
1997.500000	26.09	54.00	27.91	V	-5.9	31.99
2490.000000	24.88	54.00	29.12	V	-4.4	29.28
3962.000000	26.00	54.00	28.00	V	-1.9	27.90
5292.000000	27.77	54.00	26.23	H	1.6	26.17
16480.500000	36.37	54.00	17.63	H	14.7	21.67



Fugure A.1.39. 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_{Mea} (dBµV)
30.330000	22.27	40.00	17.73	V	-6.4	28.67
204.007222	30.58	43.52	12.94	H	-11.4	41.98
240.316111	33.69	46.02	12.33	H	-9.5	43.19
328.862778	32.75	46.02	13.27	H	-8.0	40.75
480.002222	35.53	46.02	10.49	H	-3.6	39.13
959.990556	38.10	46.02	7.92	H	2.5	35.60



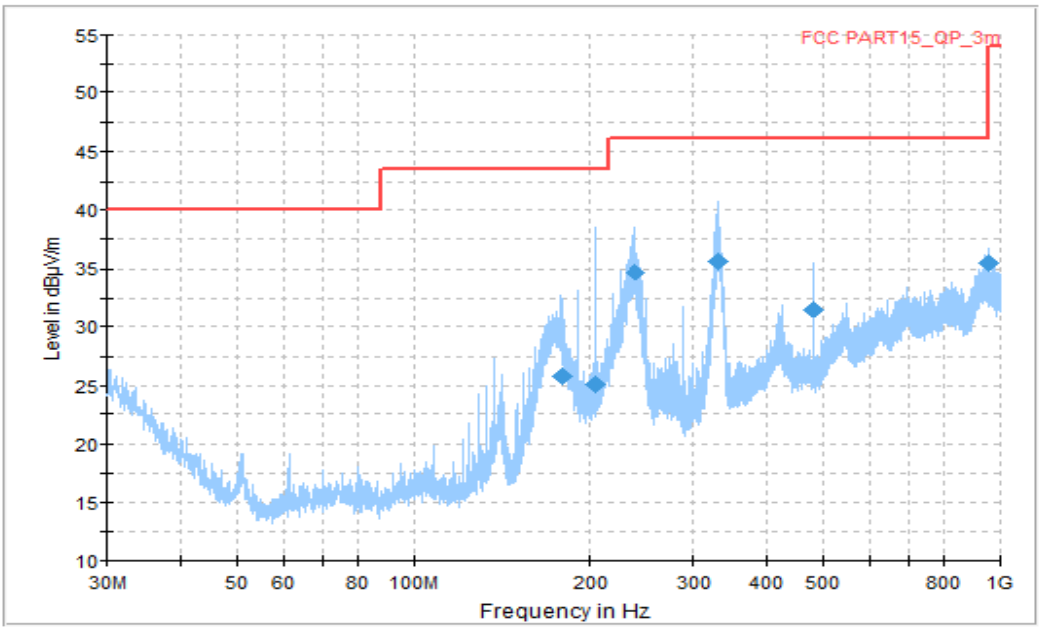
Fugure A.1.40. Radiated Emission (Data Transfer : TF Card to PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1920.000000	40.82	74.00	33.18	H	-6.2	47.02
1993.500000	48.73	74.00	25.27	V	-5.9	54.63
2662.500000	47.37	74.00	26.63	V	-4.1	51.47
3992.000000	45.63	74.00	28.37	V	-1.8	47.43
5322.500000	50.05	74.00	23.95	V	1.6	48.45
16453.000000	50.31	74.00	23.69	V	14.7	35.61

Final_Results_AVG

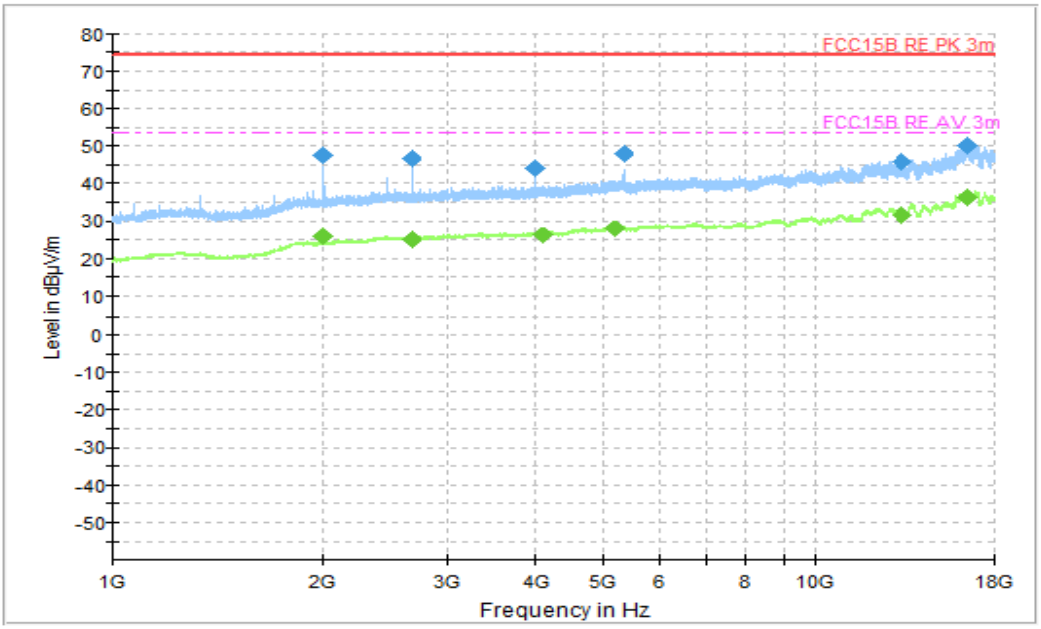
Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1920.000000	23.50	54.00	30.50	H	-6.2	29.70
1994.500000	26.23	54.00	27.77	V	-5.9	32.13
2663.500000	24.81	54.00	29.19	V	-4.1	28.91
3991.000000	26.12	54.00	27.88	V	-1.8	27.92
5321.500000	27.87	54.00	26.13	V	1.6	26.27
16922.000000	36.24	54.00	17.76	V	14.8	21.44



Fugure A.1.41. 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_{Mea} (dBµV)
178.727222	25.82	43.52	17.70	H	-11.9	37.72
204.007222	25.05	43.52	18.47	H	-11.4	36.45
239.460556	34.64	46.02	11.38	H	-9.5	44.14
330.060556	35.65	46.02	10.37	H	-7.9	43.55
479.996111	31.55	46.02	14.47	H	-3.6	35.15
959.990556	35.48	46.02	10.54	H	2.5	32.98



Fugure A.1.42. Radiated Emission (Data Transfer : TF Card to PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
2000.000000	47.41	74.00	26.59	V	-5.9	53.31
2664.000000	46.89	74.00	27.11	V	-4.1	50.99
3994.000000	44.26	74.00	29.74	H	-1.8	46.06
5329.500000	47.97	74.00	26.03	V	1.6	46.37
13282.500000	45.74	74.00	28.26	H	8.3	37.44
16462.000000	49.91	74.00	24.09	V	14.7	35.21

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1997.000000	26.19	54.00	27.81	V	-5.9	32.09
2665.000000	24.98	54.00	29.02	V	-4.1	29.08
4112.000000	26.31	54.00	27.69	V	-1.4	27.71
5177.000000	28.09	54.00	25.91	H	1.2	26.89
13275.000000	31.88	54.00	22.12	V	8.2	23.68
16473.500000	36.37	54.00	17.63	H	14.7	21.67

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