



TEST REPORT

No.I20N02439-EMC

for

TCL Communication Ltd.

LTE/UMTS/GSM Smartphone

Model Name: 4187M

With

Hardware Version: FS180-MB-V0.2A

Software Version: 4187M_LCAR_1SIM_V1.0_20200814_UNLOCK

FCC ID: 2ACCJB118

Issued Date: 2020-09-18

Designation Number: CN1210

Note:

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

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I20N02439-EMC	Rev.0	1st edition	2020-09-18

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	4187M
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: 2020-09-09

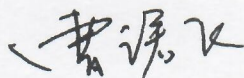
Testing End Date: 2020-09-18

1.6. Signature



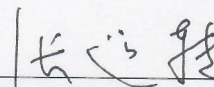
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(Reviewed this test report)



2. Client Information

2.1. Applicant Information

Company Name:	TCL Communication Ltd.
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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 Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	LTE/UMTS/GSM mobile phone
Model Name	4187M
FCC ID	2ACCJB118
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	359203820201090	FS180-MB-V0.2A	4187M_LCAR_1SIM_V1.0 _20200814_UNLOCK	2020-08-15
UT02aa	359203820201116	FS180-MB-V0.2A	4187M_LCAR_1SIM_V1.0 _20200814_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	AE Label
AE1	LI-Polymer Battery	/
AE2	Charger	Aa01a;Ab01a
AE3	Data Cable	Ca01a;Cb01a
AE4	Stereo Earphone	Ha01a;Hb01a

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/CBA0059AGAC7
Manufacturer	CHENYANG

AE2-2

Model	UC13US/CBA0059AGAC5
Manufacturer	PUAN

AE3-1

Model	CDA0000024C8
Manufacturer	PUAN

AE3-2

Model	CDA0000024C2
Manufacturer	JUWEI

AE4-1

Model	WH15/CCB0046A10C1
Manufacturer	JUWEI

AE4-2

Model	WH15/CCB0046A10C4
Manufacturer	MEIHAO

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

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

AE: ancillary equipment

3.4. EUT set-ups

EUT set-up No.

COMBINATION OF EUT AND AE

Set.1	UT02aa+AE1-2+AE2-1(Aa01a)+AE3-1(Ca01a)+AE4-1(Ha01a)
Set.2	UT01aa+AE1-1+AE2-2(Ab01a)+AE3-2(Cb01a)+AE4-2(Hb01a)
Set.3	UT02aa+AE1-2+AE3-1(Ca01a)+AE4-1(Ha01a)+PC
Set.4	UT01aa+AE1-1+AE3-2(Cb01a)+AE4-2(Hb01a)+PC

3.5. General Description

The Equipment Under Test (EUT) is a model of LTE/UMTS/GSM Smartphone 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 4187M 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 4187M and 5030J:

Changes	4187M	5030J
Memory	32G ROM+2G RAM	32G ROM+3G RAM
Brand	Alcatel	TCL

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	GSM receiver/WCDMA receiver/Camera/ Video Player/FM receiver
		Set.3/Set.4	Data Transfer Mode

Other results are cited from the initial report.

The report number for initial model is I20N00391-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 °C, Max. = 35°C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
Normalised site attenuation (NSA)	<±4 dB, 3 m distance, from 30 to 1000 MHz

Shield room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. =20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-10000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω

Fully-anechoic chamber did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

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

6. SUMMARY OF TEST RESULTS

6.1. Testing Environment

Normal Temperature: 15~35℃
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)

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	MOEUJOA	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. The EUT is synchronized to a FM signal generator. The EUT is keeping on demodulating the FM signal and outputting the audio signal through the headset.

Camera: At the beginning of measurement, the battery is completely discharged. The battery and charger are installed so that the EUT works well and keeping on taking photos.

Video Player: The EUT is connected to a charger for charging and keeping on playing mp3.

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

GSM receiver: The EUT is connected to a charger for charging. The EUT is synchronized to System Simulator (SS), and able to respond to paging messages and incoming call. An established call has been released.

WCDMA receiver: The EUT is connected to a charger for charging. The EUT is synchronized to System Simulator (SS), and able to respond to paging messages and incoming call. An established call has been released.

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

GSM850MHz, WCDMA Band 5.

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

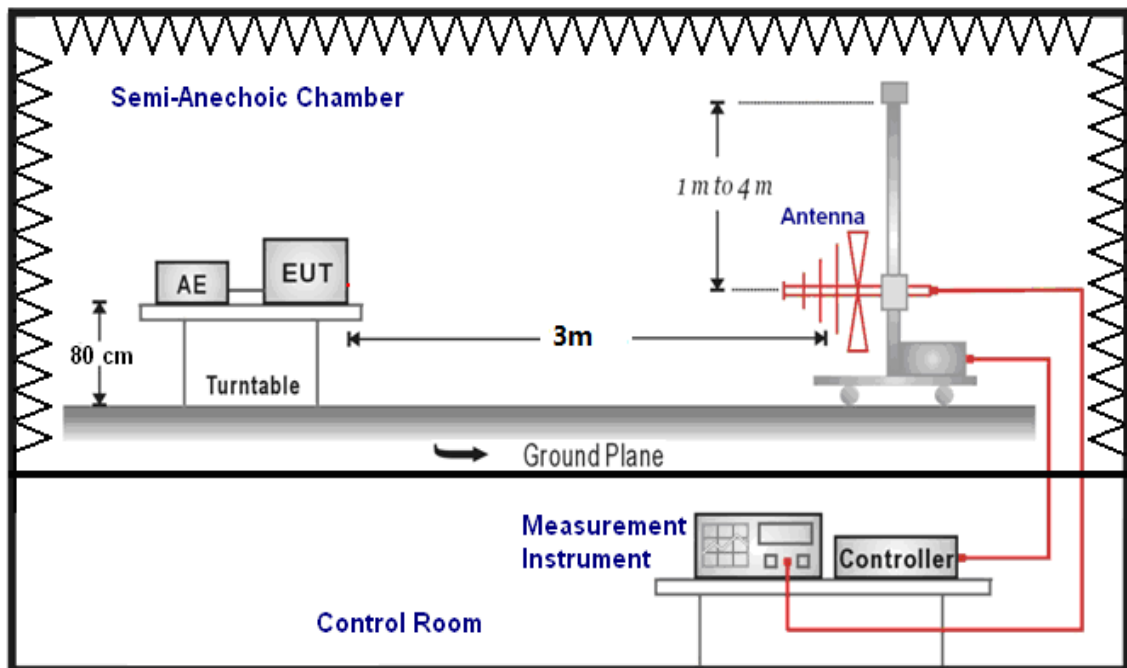
Frequency range (MHz)	Field strength limit ($\mu\text{V/m}$)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

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

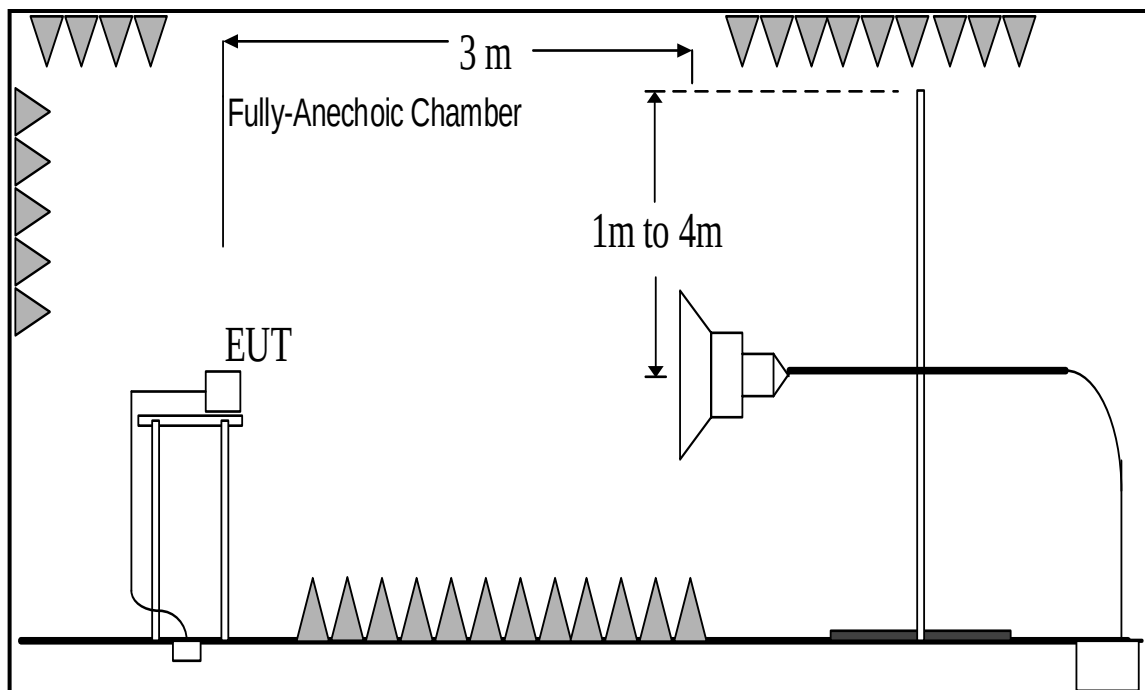
A.1.4 Test Condition

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

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



1GHz-18GHz



A.1.6 Measurement Results

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

The measurement results are obtained as described below:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Result: Quasi-Peak(dB μ V/m) / Average(dB μ V/m)/Peak(dB μ V/m)

Note: the result contains vertical part and Horizontal part

GSM receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/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 (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m) Set.1	Conclusion
1000 to 18000	54	74	See Figure A.2	P

WCDMA receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m) Set.1	Conclusion
30-88	40	See Figure A.3	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m) Set.1	Conclusion
1000 to 18000	54	74	See Figure A.4	P

GSM receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m) Set.2	Conclusion
30-88	40	See Figure A.5	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			Set.2	
1000 to 18000	54	74	See Figure A.6	P

WCDMA receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ 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 μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			Set.2	
1000 to 18000	54	74	See Figure A.8	P

Camera

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		Set.1	
30-88	40	See Figure A.9	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			Set.1	
1000 to 18000	54	74	See Figure A.10	P

Video Player

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		Set.1	
30-88	40	See Figure A.11	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			Set.1	
1000 to 18000	54	74	See Figure A.12	P

Video Player

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		Set.2	
30-88	40	See Figure A.13	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			Set.2	
1000 to 18000	54	74	See Figure A.14	P

FM receiver

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		Set.1	
30-88	40	See Figure A.15	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			Set.1	
1000 to 18000	54	74	See Figure A.16	P

FM receiver

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		Set.2	
30-88	40	See Figure A.17	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			Set.2	
1000 to 18000	54	74	See Figure A.18	P

Data Transfer : EUT to PC

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

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			Set.3	
1000 to 18000	54	74	See Figure A.20	P

Data Transfer : PC to EUT

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		Set.3	
30-88	40	See Figure A.21	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			Set.3	
1000 to 18000	54	74	See Figure A.22	P

Data Transfer : PC to TF Card

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		Set.3	
30-88	40	See Figure A.23	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			Set.3	
1000 to 18000	54	74	See Figure A.24	P

Data Transfer : TF Card to PC

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

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			Set.3	
1000 to 18000	54	74	See Figure A.26	P

Data Transfer : EUT Card to PC

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		Set.4	
30-88	40	See Figure A.27	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			Set.4	
1000 to 18000	54	74	See Figure A.28	P

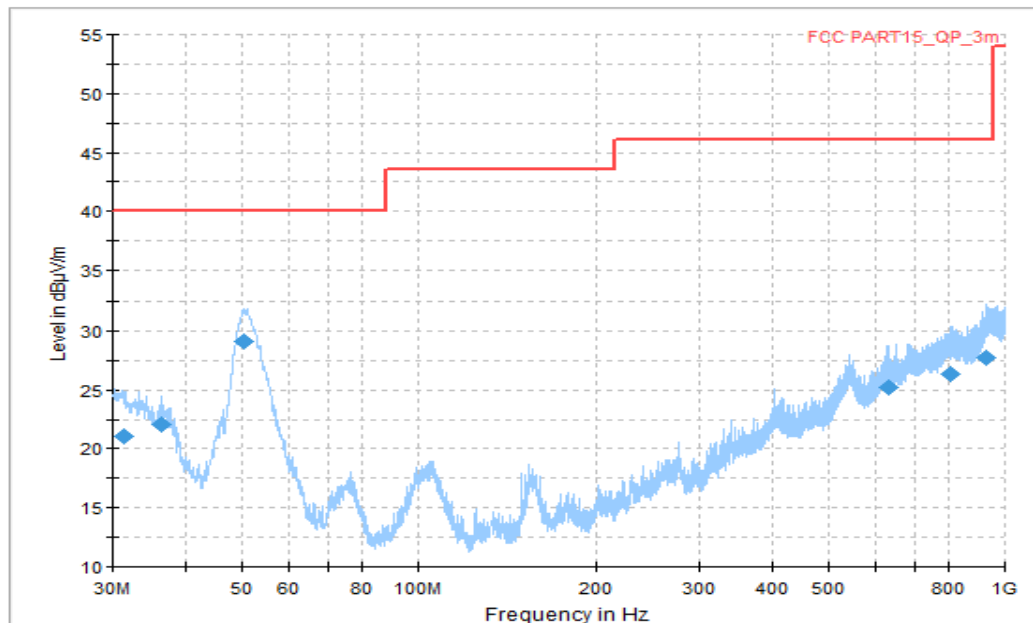


Figure A.1 Radiated Emission (Set.1, GSM receiver 850MHz, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
31.455000	21.06	40.00	18.94	H	-14	35.06
36.244375	22.09	40.00	17.91	V	-16	38.09
50.127500	29.06	40.00	10.94	V	-22	51.06
632.491250	25.15	46.02	20.87	V	-3	28.15
808.061250	26.29	46.02	19.73	H	-1	27.29
930.281250	27.73	46.02	18.29	H	1	26.73

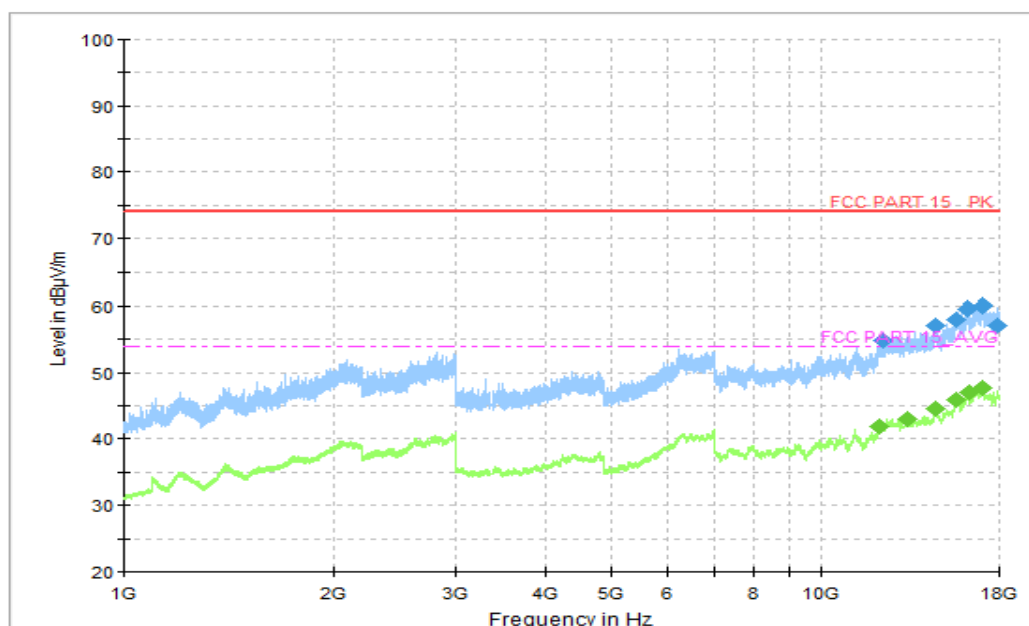


Figure A.2 Radiated Emission (Set.1, GSM receiver, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
12229.750000	54.96	74.00	19.04	V	16	38.96
14587.500000	57.01	74.00	16.99	V	18	39.01
15568.500000	57.89	74.00	16.11	V	20	37.89
16233.500000	59.50	74.00	14.50	V	21	38.5
17009.250000	60.04	74.00	13.96	V	23	37.04
17899.500000	57.19	74.00	16.81	V	24	33.19

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
12079.250000	41.99	54.00	12.01	V	16	25.99
13254.000000	43.10	54.00	10.90	V	17	26.1
14575.000000	44.60	54.00	9.40	V	18	26.6
15569.500000	45.94	54.00	8.06	V	20	25.94
16265.500000	47.01	54.00	6.99	V	21	26.01
17021.000000	47.71	54.00	6.29	V	23	24.71

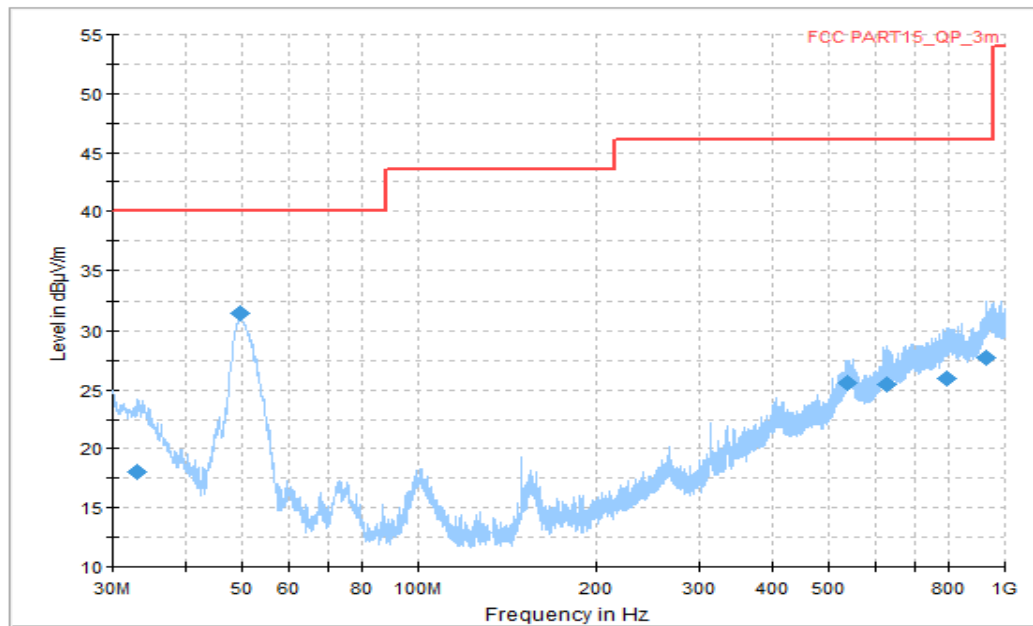


Figure A.3 Radiated Emission (Set.1, WCDMA receiver Band 5, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
33.091875	18.02	40.00	21.98	H	-15	33.02
49.642500	31.52	40.00	8.48	V	-22	53.52
539.371250	25.53	46.02	20.49	V	-4	29.53
630.066250	25.43	46.02	20.59	V	-3	28.43
796.239375	26.01	46.02	19.01	H	-1	27.01
929.493125	27.73	46.02	18.29	V	1	26.73

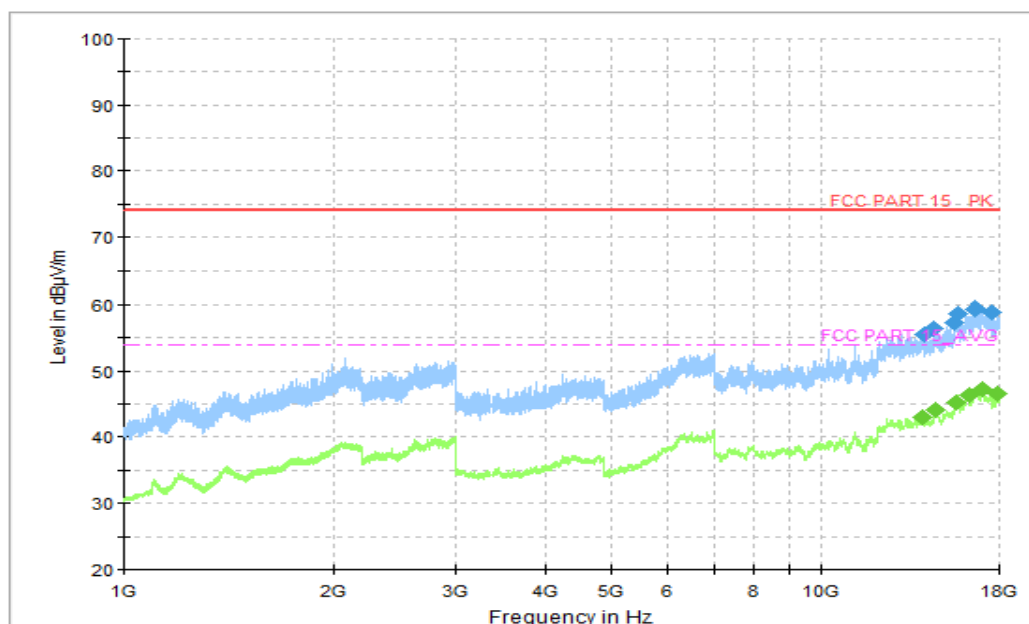


Figure A.6 Radiated Emission (Set.1, WCDMA receiver Band 5, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
14021.750000	55.52	74.00	18.48	V	17	38.52
14510.750000	56.44	74.00	17.56	H	18	38.44
15529.250000	57.41	74.00	16.59	H	19	38.41
15707.500000	58.57	74.00	15.43	V	20	38.57
16618.250000	59.36	74.00	14.64	V	22	37.36
17509.250000	58.96	74.00	15.04	V	22	36.96

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13959.250000	43.00	54.00	11.00	V	17	26
14576.000000	44.10	54.00	9.90	V	18	26.10
15569.000000	45.36	54.00	8.64	V	20	25.36
16276.250000	46.39	54.00	7.61	V	21	25.39
17001.500000	47.18	54.00	6.82	V	23	24.18
17881.750000	46.50	54.00	7.50	H	24	22.5

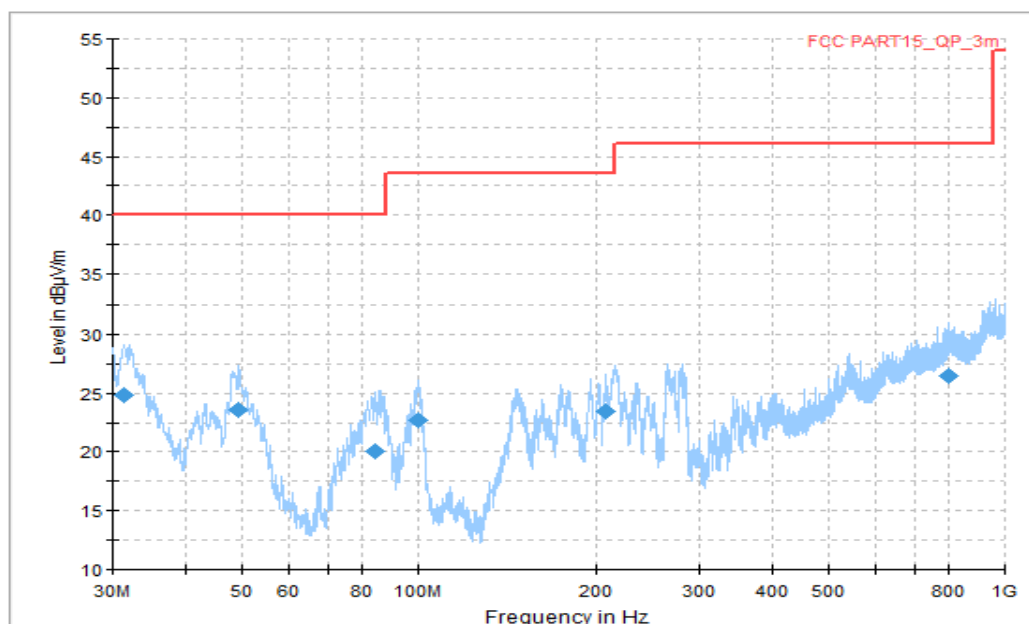


Figure A.7 Radiated Emission (Set.2, GSM receiver 850MHz, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
31.333750	24.85	40.00	15.15	V	-14	38.85
49.278750	23.56	40.00	16.44	V	-22	45.56
84.320000	20.03	40.00	19.97	V	-22	42.03
100.082500	22.75	43.52	20.77	V	-20	42.75
207.691875	23.50	43.52	20.02	H	-17	40.5
802.968750	26.52	46.02	19.50	H	-1	27.52

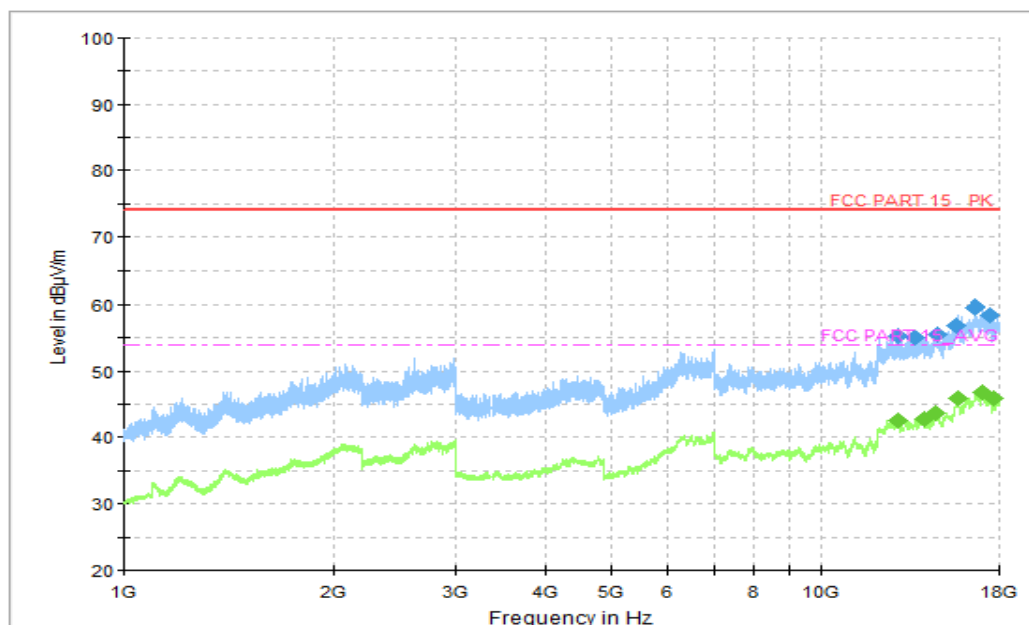


Figure A.8 Radiated Emission (Set.2, GSM receiver 850MHz, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
12913.250000	55.21	74.00	18.79	V	17	38.21
13611.500000	55.15	74.00	18.85	H	17	38.15.0
14674.500000	55.63	74.00	18.37	V	18	37.63
15576.000000	56.77	74.00	17.23	V	20	36.77
16624.000000	59.45	74.00	14.55	H	22	37.45
17446.750000	58.34	74.00	15.66	H	22	36.34

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
12886.250000	42.48	54.00	11.52	H	17	25.48
14017.250000	42.77	54.00	11.23	H	17	25.77
14559.500000	43.72	54.00	10.28	H	18	25.72
15670.250000	45.90	54.00	8.10	V	20	25.9
17024.250000	46.78	54.00	7.22	V	23	23.78
17693.000000	46.03	54.00	7.97	H	23	23.03

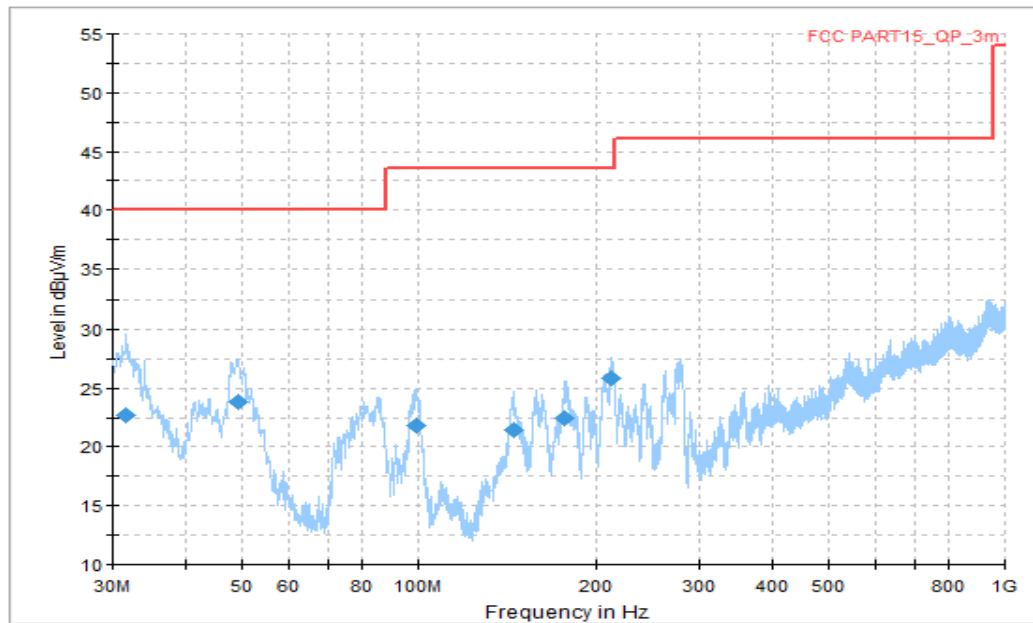


Figure A.4 Radiated Emission (Set.2, WCDMA receiver Band 5, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
31.636875	22.73	40.00	17.27	V	-14	36.73
49.036250	23.78	40.00	16.22	V	-22	45.78
99.051875	21.87	43.52	21.65	V	-20	41.87
144.278125	21.50	43.52	22.02	V	-19	40.5
176.409375	22.40	43.52	21.12	V	-18	40.4
211.935625	25.87	43.52	17.65	H	-17	42.87

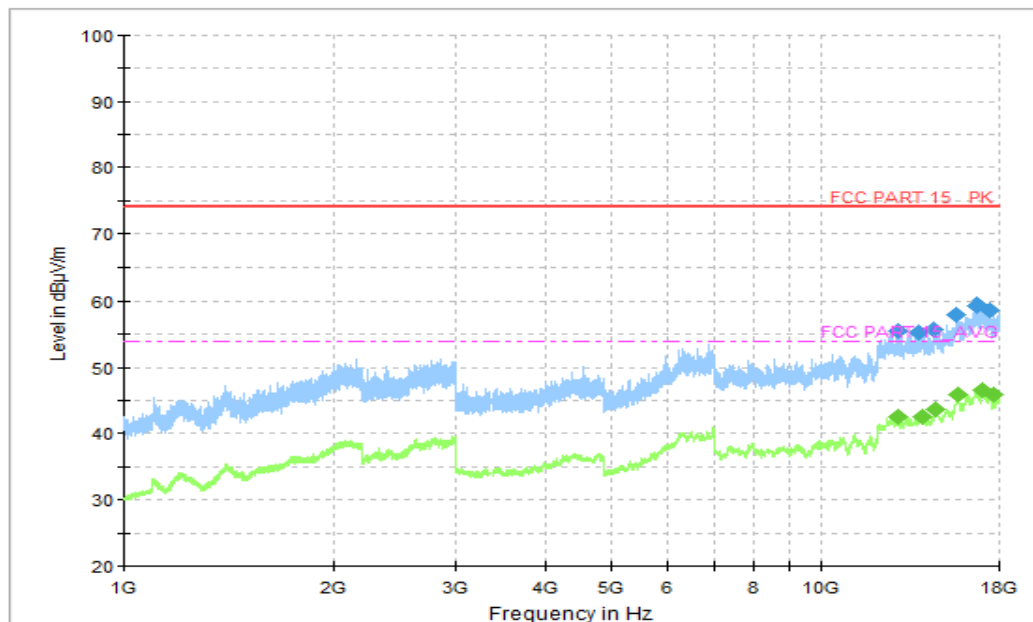


Figure A.7 Radiated Emission (Set.2, WCDMA receiver Band 5, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
12911.500000	55.63	74.00	18.37	H	17	38.63
13805.000000	55.31	74.00	18.69	H	17	38.31
14510.000000	55.73	74.00	18.27	H	18	37.73
15655.000000	58.07	74.00	15.93	H	20	38.07
16738.500000	59.26	74.00	14.74	H	21	38.26
17452.250000	58.70	74.00	15.30	H	22	36.7

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
12891.250000	42.57	54.00	11.43	H	17	25.57
13955.000000	42.65	54.00	11.35	H	17	25.65
14568.750000	43.69	54.00	10.31	V	18	25.69
15660.500000	45.90	54.00	8.10	H	20	25.9
17017.750000	46.57	54.00	7.43	V	23	23.57
17693.000000	45.86	54.00	8.14	V	23	22.86

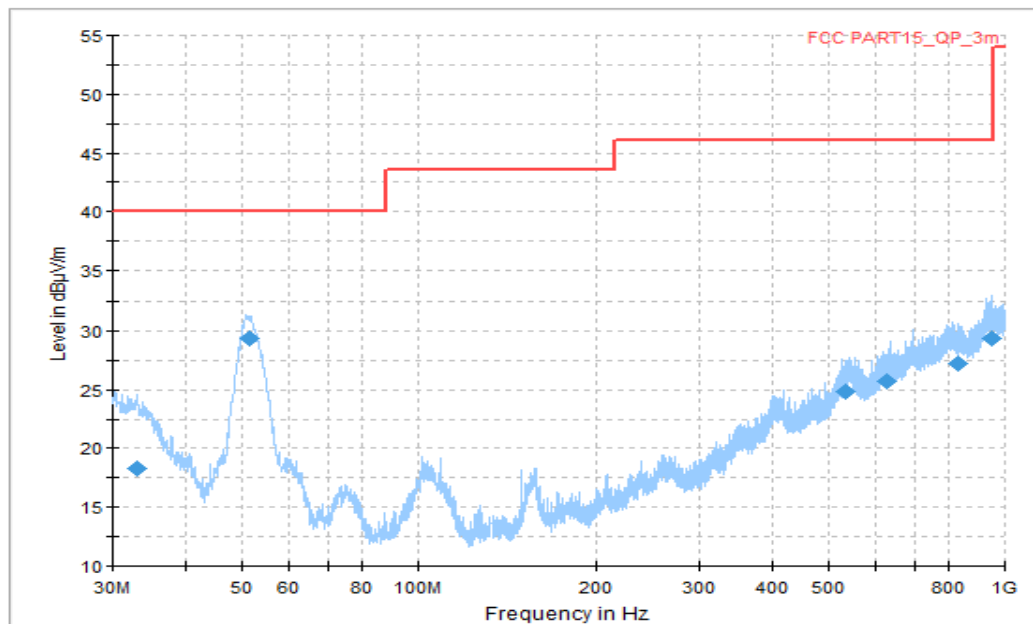


Figure A.10 Radiated Emission (Set.1,Camera , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
32.970625	18.27	40.00	21.73	H	-15	33.27
51.461250	29.42	40.00	10.58	V	-22	51.42
535.673125	24.84	46.02	21.18	V	-4	28.84
628.793125	25.67	46.02	20.35	H	-3	28.67
831.462500	27.16	46.02	18.86	V	-1	28.16
947.923125	29.41	46.02	16.61	H	1	28.41

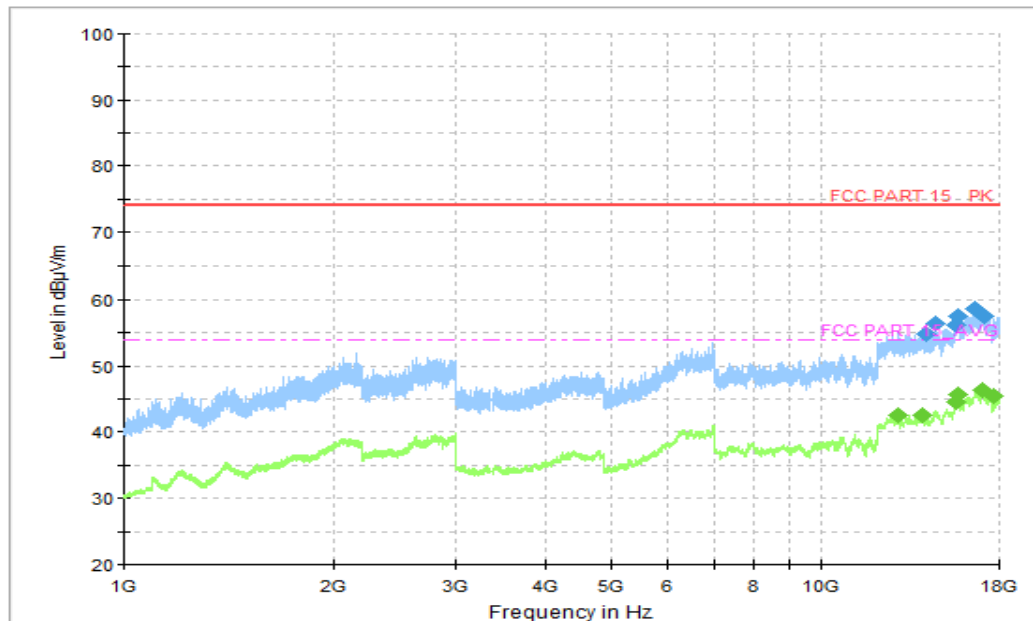


Figure A.12 Radiated Emission (Set.1, Camera , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
14126.000000	54.90	74.00	19.10	H	17	37.90
14561.500000	56.39	74.00	17.61	H	18	38.39
15576.750000	56.30	74.00	17.70	V	20	36.30
15667.750000	57.60	74.00	16.40	H	20	37.60
16635.500000	58.67	74.00	15.33	H	22	36.67
17165.250000	57.49	74.00	16.51	V	21	36.49

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
12897.500000	42.51	54.00	11.49	H	17	25.51
13955.000000	42.55	54.00	11.45	H	17	25.55
15576.500000	44.51	54.00	9.49	V	20	24.51
15667.250000	45.72	54.00	8.28	H	20	25.72
17050.500000	46.42	54.00	7.58	H	22	24.42
17693.000000	45.52	54.00	8.48	H	23	22.52

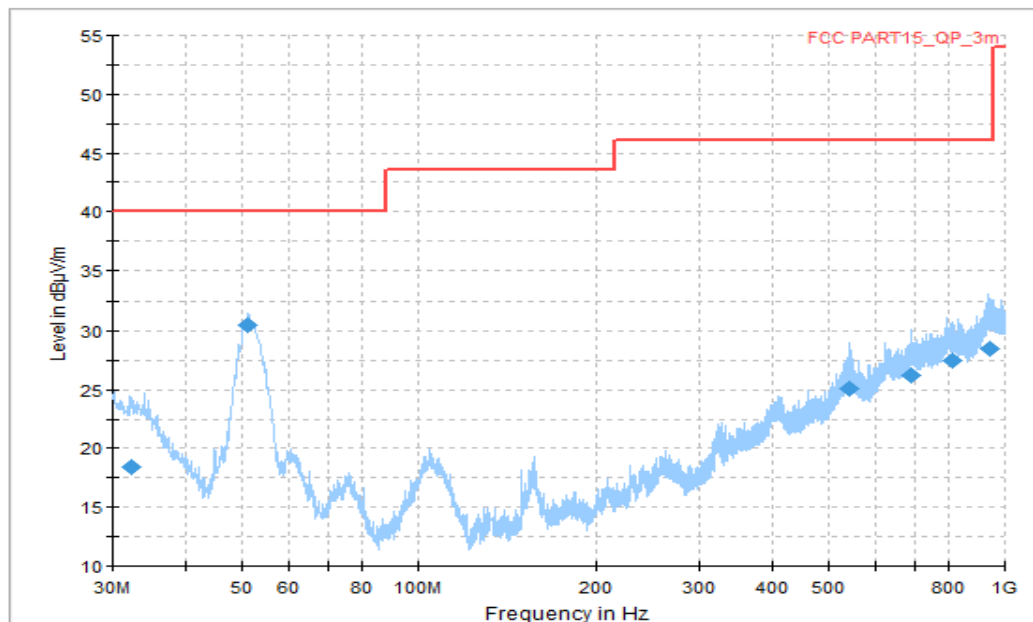


Figure A.11 Radiated Emission (Set.1, Video Player, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
32.182500	18.48	40.00	21.52	V	-14	32.48
51.218750	30.51	40.00	9.49	V	-22	52.51
541.008125	25.10	46.02	20.92	V	-4	29.10
690.933750	26.18	46.02	19.84	V	-2	28.18
815.942500	27.50	46.02	18.52	H	-1	28.5
942.891250	28.43	46.02	17.59	V	1	27.43

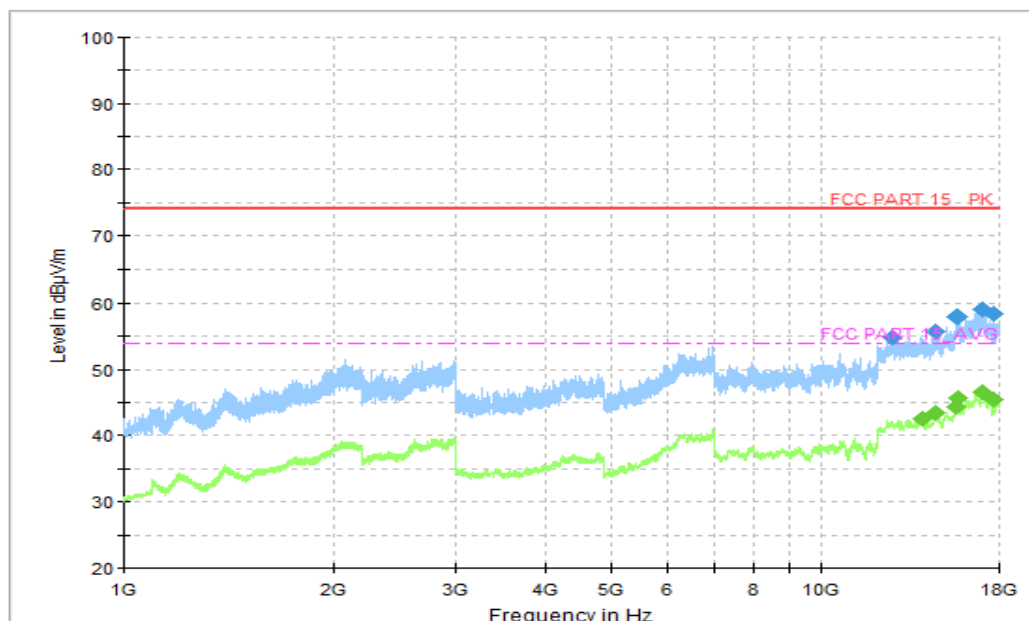


Figure A.13 Radiated Emission (Set.1, Video Player , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
12675.250000	54.85	74.00	19.15	V	17	37.85
14561.250000	55.66	74.00	18.34	H	18	37.66
15567.750000	58.02	74.00	15.98	V	20	38.02
15707.500000	58.05	74.00	15.95	V	20	38.05
17023.750000	59.19	74.00	14.81	V	23	36.19
17681.750000	58.54	74.00	15.46	V	23	35.54

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13955.000000	42.67	54.00	11.33	H	17	25.67
14576.000000	43.37	54.00	10.63	V	18	25.37
15576.000000	44.46	54.00	9.54	V	20	24.46
15676.750000	45.65	54.00	8.35	H	20	25.65
17020.500000	46.50	54.00	7.50	V	23	23.5
17693.000000	45.57	54.00	8.43	V	23	22.57

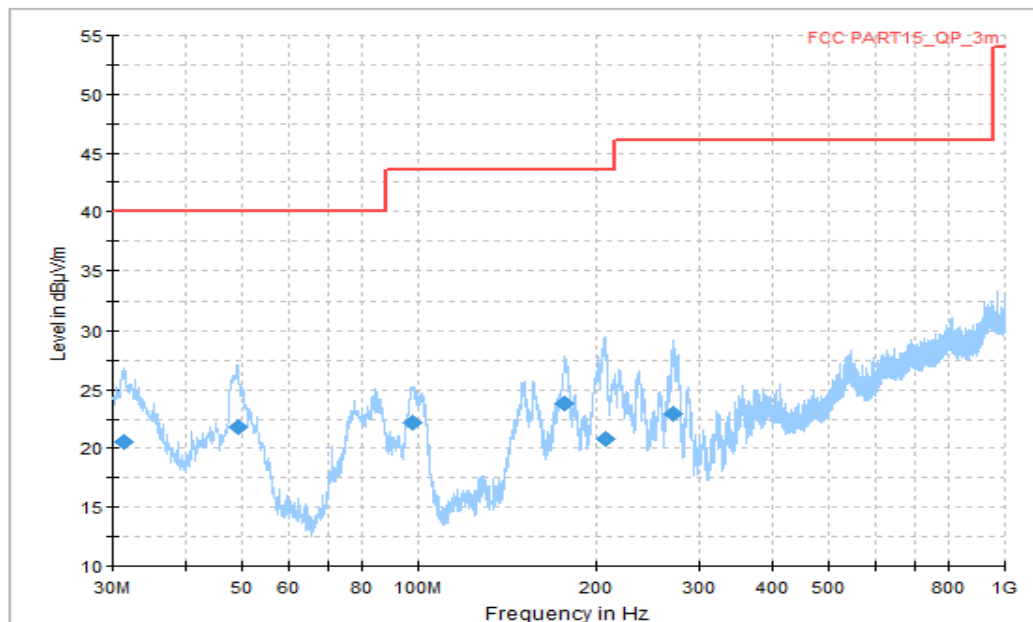


Figure A.12 Radiated Emission (Set.2, Video Player, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
31.455000	20.61	40.00	19.39	V	-14	34.61
49.036250	21.80	40.00	18.20	V	-22	43.8
97.657500	22.16	43.52	21.36	V	-20	42.16
177.015625	23.79	43.52	19.73	H	-18	41.79
207.328125	20.86	43.52	22.66	H	-17	37.86
270.378125	22.94	46.02	23.08	H	-14	36.94

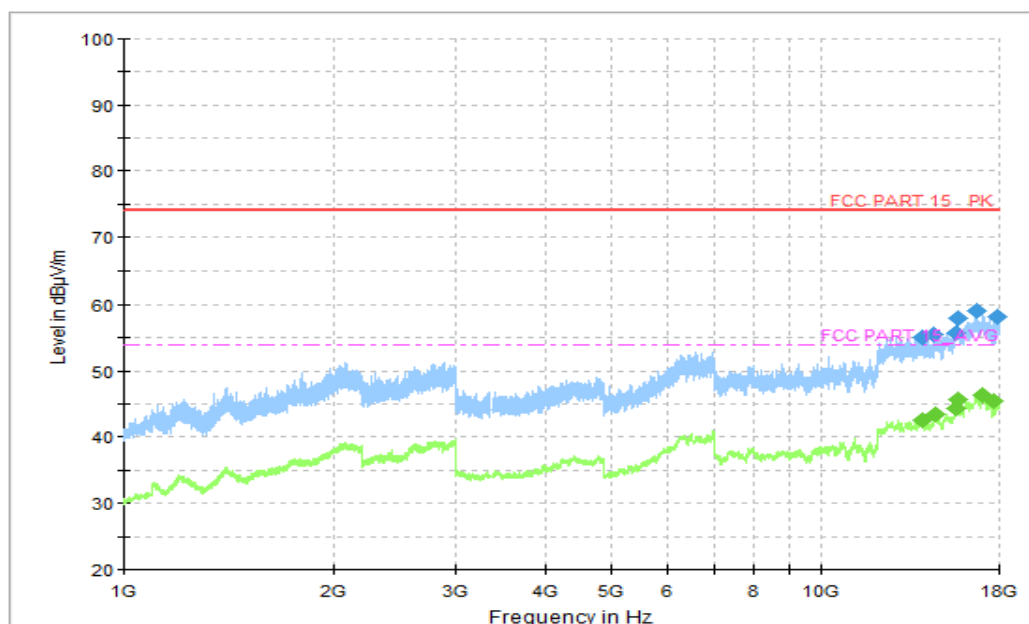


Figure A.14 Radiated Emission (Set.2, Video Player , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13939.500000	55.03	74.00	18.97	H	17	38.03
14524.250000	55.53	74.00	18.47	H	18	37.53
15577.750000	55.79	74.00	18.21	H	20	35.79
15672.000000	57.97	74.00	16.03	H	20	37.97
16737.750000	59.01	74.00	14.99	H	21	38.01
17922.000000	58.28	74.00	15.72	H	24	34.28

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13951.750000	42.53	54.00	11.47	H	17	25.53
14561.750000	43.41	54.00	10.59	H	18	25.41
15576.750000	44.35	54.00	9.65	H	20	24.35
15667.250000	45.66	54.00	8.34	V	20	25.66
17023.500000	46.41	54.00	7.59	H	23	23.41
17707.500000	45.43	54.00	8.57	H	23	22.43

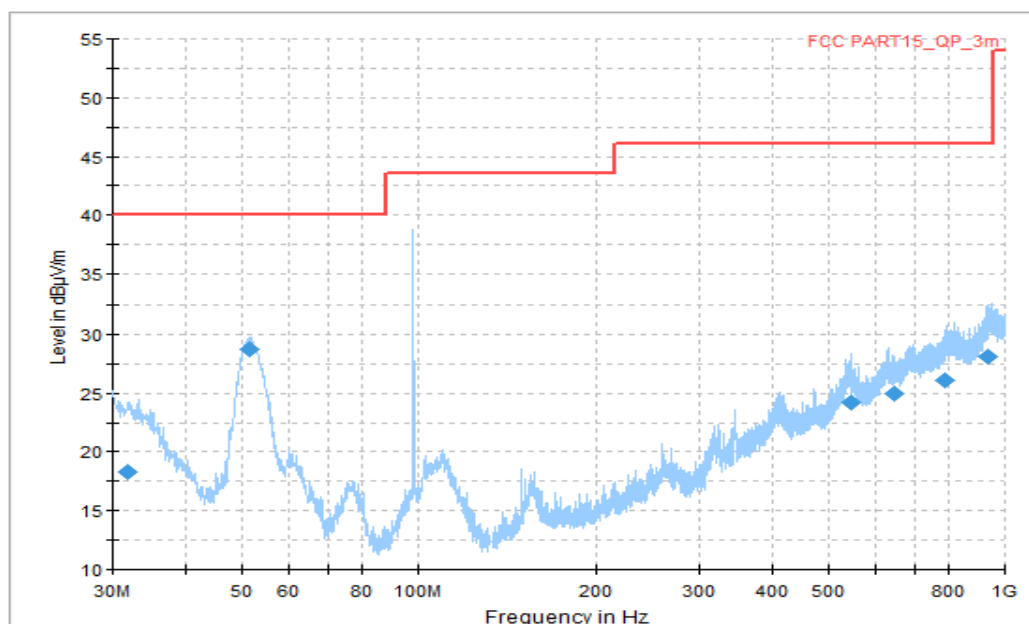


Figure A.15 Radiated Emission (Set.1, FM Receiver, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
31.879375	18.32	40.00	21.68	V	-14	32.32
51.340000	28.71	40.00	11.29	V	-22	50.71
547.555625	24.21	46.02	21.81	H	-4	28.21
645.828750	24.90	46.02	21.12	H	-3	27.90
791.935000	26.12	46.02	19.90	V	-1	27.12
933.009375	28.11	46.02	17.91	H	1	27.11

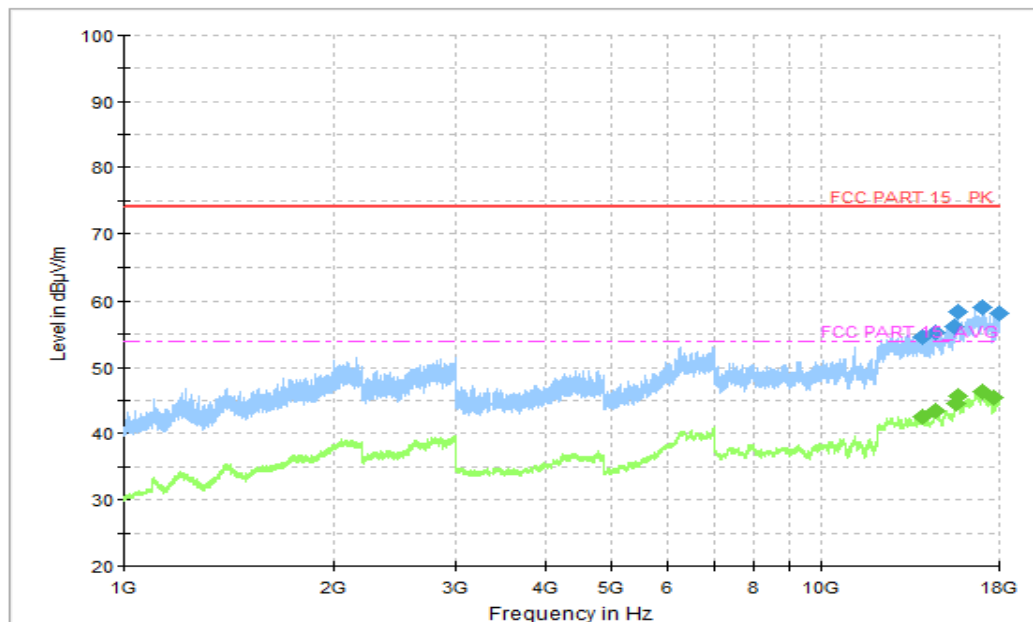


Figure A.16 Radiated Emission (Set.1, FM Receiver , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13980.250000	54.72	74.00	19.28	V	17	37.72
14577.250000	55.31	74.00	18.69	V	18	37.31
15554.000000	56.16	74.00	17.84	H	19	37.16
15673.500000	58.33	74.00	15.67	V	20	38.33
17070.500000	59.09	74.00	14.91	V	22	37.09
17947.000000	58.13	74.00	15.87	V	24	34.13

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13955.000000	42.59	54.00	11.41	H	17	25.59
14561.500000	43.45	54.00	10.55	H	18	25.45
15575.750000	44.47	54.00	9.53	V	20	24.47
15670.250000	45.74	54.00	8.26	H	20	25.74
17040.750000	46.41	54.00	7.59	V	22	24.41
17700.500000	45.49	54.00	8.51	V	23	22.49

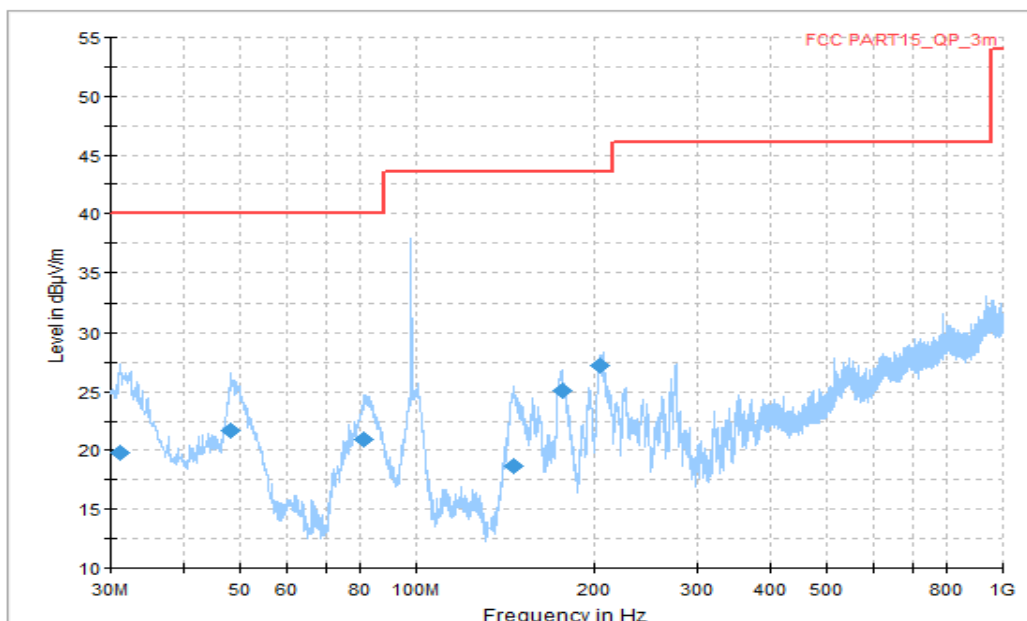


Figure A.17 Radiated Emission (Set.2, FM Receiver, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
31.091250	19.79	40.00	20.21	V	-14	33.79
48.187500	21.66	40.00	18.34	V	-21	42.66
81.531250	20.88	40.00	19.12	V	-22	42.88
145.793750	18.69	43.52	24.83	V	-19	37.69
175.863750	25.08	43.52	18.44	H	-18	43.08
205.206250	27.24	43.52	16.28	H	-17	44.24

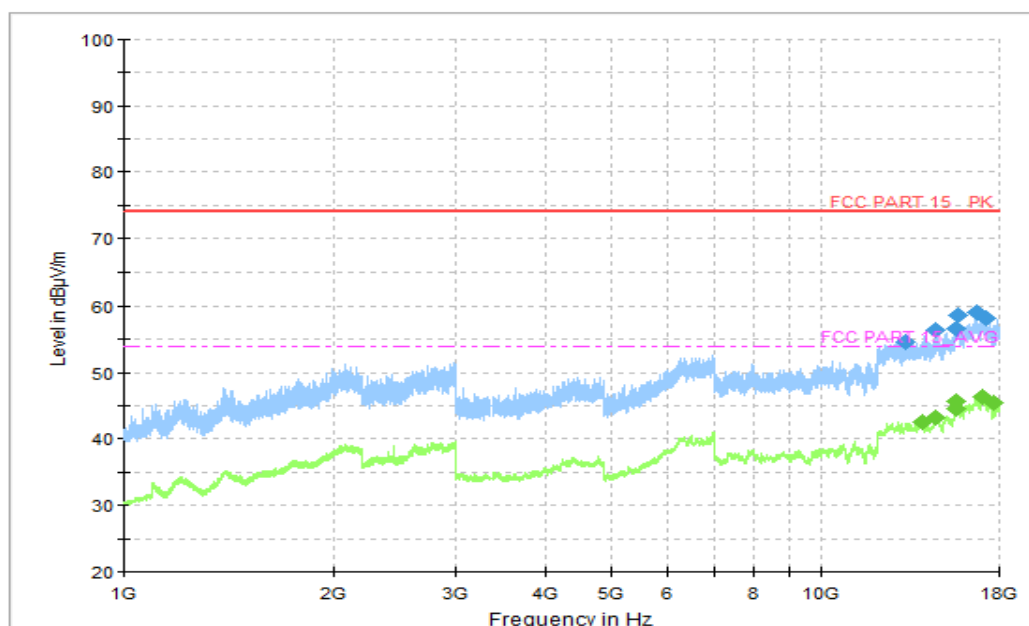


Figure A.18 Radiated Emission (Set.2, FM Receiver, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13231.000000	54.58	74.00	19.42	V	17	37.58
14545.250000	56.53	74.00	17.47	H	18	38.53
15568.750000	56.55	74.00	17.45	V	20	36.55
15677.250000	58.72	74.00	15.28	V	20	38.72
16679.750000	59.02	74.00	14.98	V	22	37.02
17190.500000	58.17	74.00	15.83	V	21	37.17

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13945.750000	42.46	54.00	11.54	V	17	25.46
14562.000000	43.32	54.00	10.68	V	18	25.32
15576.250000	44.63	54.00	9.37	V	20	24.63
15647.250000	45.68	54.00	8.32	V	20	25.68
17023.500000	46.33	54.00	7.67	H	23	23.33
17704.000000	45.55	54.00	8.45	H	23	22.55

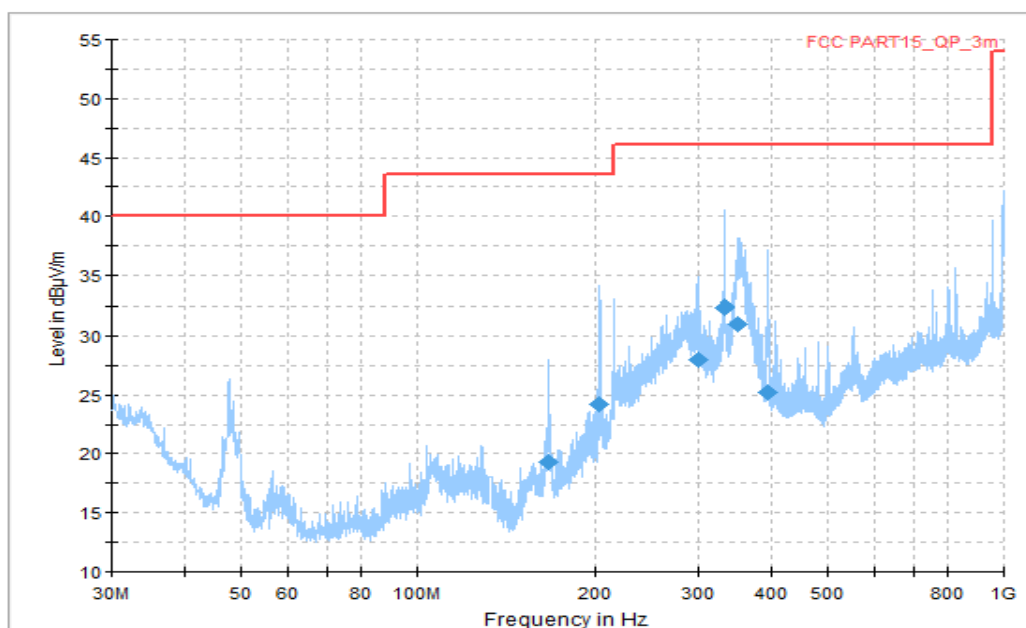


Figure A.19 Radiated Emission (Set.3, Data Transfer: EUT to PC, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
166.527500	19.31	43.52	24.21	V	-18	37.31
203.690625	24.20	43.52	19.32	H	-17	41.2
299.902500	27.92	46.02	18.10	H	-14	41.92
331.912500	32.35	46.02	13.67	H	-12	44.35
351.494375	31.04	46.02	14.98	H	-11	42.04
394.901875	25.20	46.02	20.82	V	-9	34.20

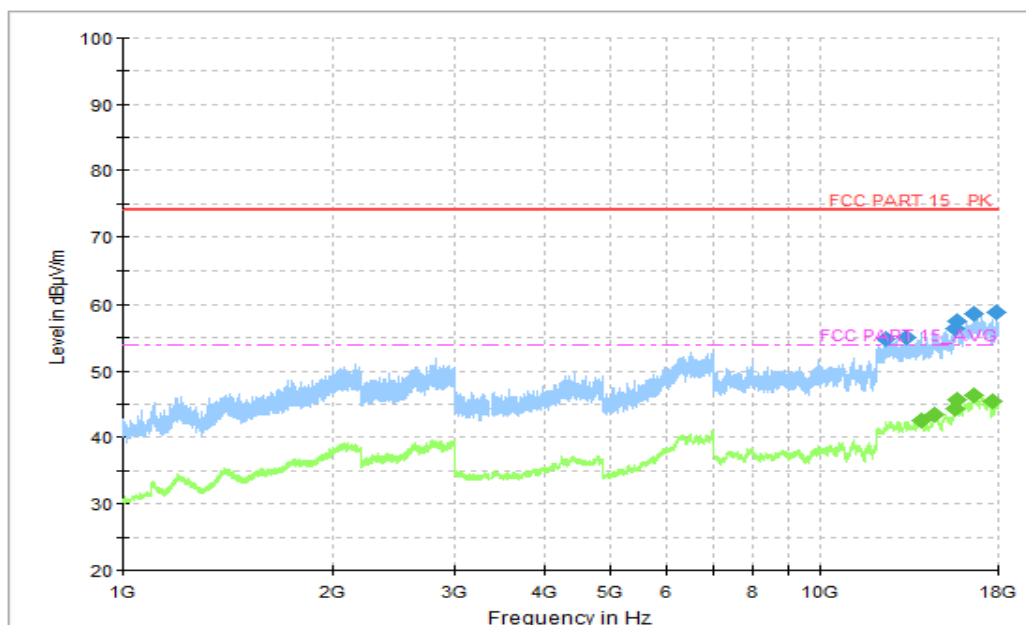


Figure A.20 Radiated Emission (Set.3, Data Transfer : EUT to PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
12411.250000	54.78	74.00	19.22	V	17	37.78
13249.750000	55.10	74.00	18.90	V	17	38.1
15566.250000	56.39	74.00	17.61	H	20	36.39
15700.500000	57.51	74.00	16.49	H	20	37.51
16593.250000	58.77	74.00	15.23	H	22	36.77
17912.500000	58.90	74.00	15.10	H	24	34.90

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13955.250000	42.53	54.00	11.47	H	17	25.53
14561.500000	43.49	54.00	10.51	H	18	25.49
15576.500000	44.45	54.00	9.55	V	20	24.45
15667.500000	45.60	54.00	8.40	V	20	25.60
16627.250000	46.42	54.00	7.58	V	22	24.42
17693.000000	45.56	54.00	8.44	H	23	22.56

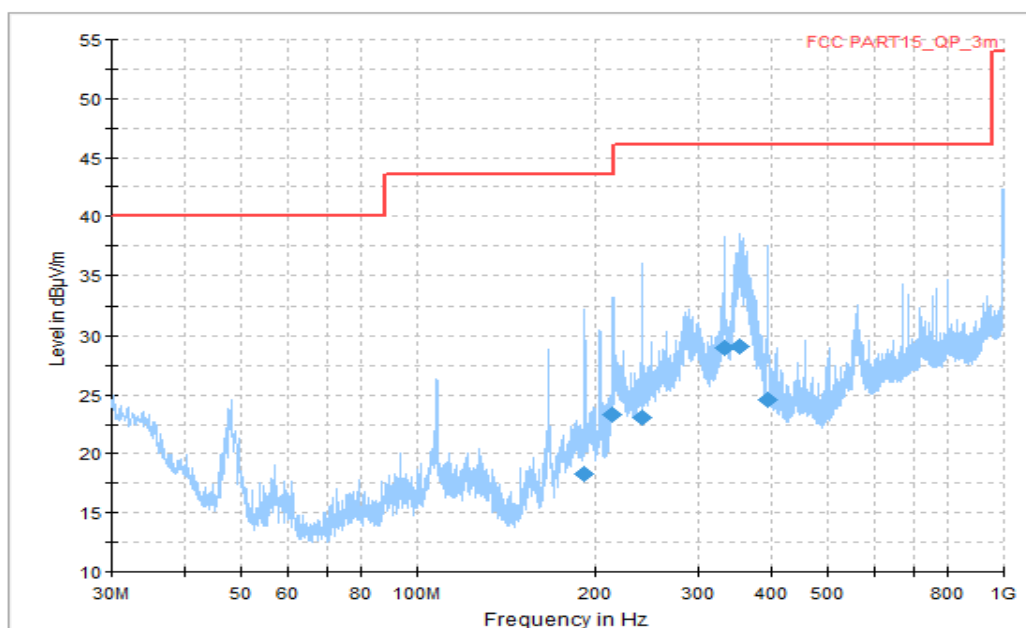


Figure A.21 Radiated Emission (Set.3, Data Transfer: PC to EUT, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
191.929375	18.32	43.52	25.20	H	-18	36.32
214.300000	23.30	43.52	20.22	V	-17	40.3
239.944375	23.09	46.02	22.93	V	-15	38.09
332.033750	29.01	46.02	17.01	H	-12	41.01
352.767500	29.13	46.02	16.89	H	-10	39.13
394.053125	24.57	46.02	20.45	V	-9	39.13

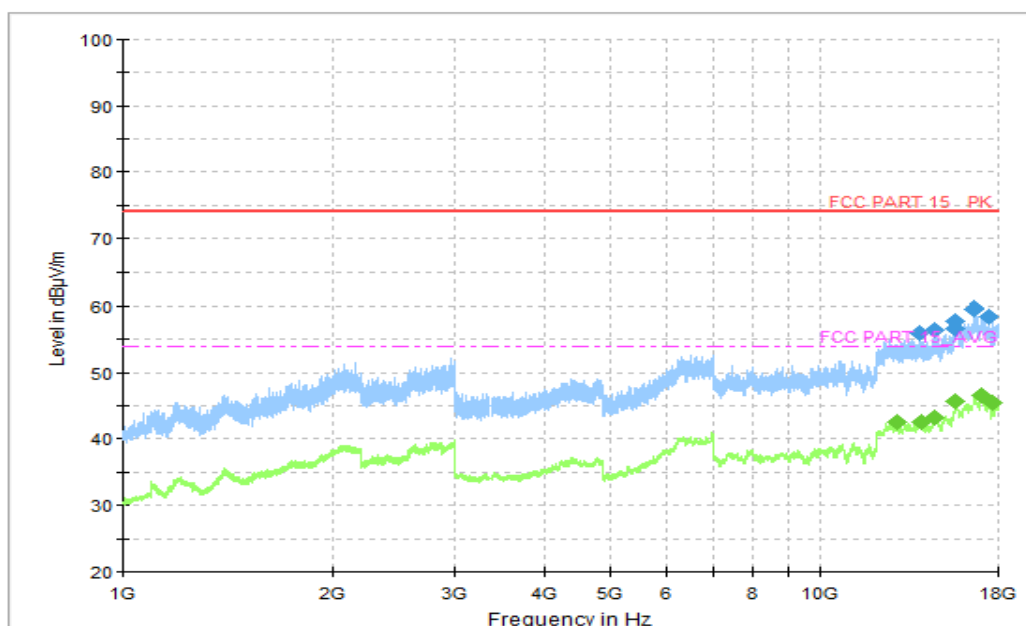


Figure A.22 Radiated Emission (Set.3, Data Transfer: PC to EUT, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13899.750000	55.95	74.00	18.05	V	17	38.95
14611.750000	56.42	74.00	17.58	H	18	38.42
15573.750000	56.68	74.00	17.32	V	20	36.68
15650.000000	57.74	74.00	16.26	V	20	37.74
16642.750000	59.60	74.00	14.40	V	22	37.6
17415.250000	58.34	74.00	15.66	H	22	36.34

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
12902.750000	42.52	54.00	11.48	V	17	25.52
13948.750000	42.56	54.00	11.44	V	17	25.56
14575.000000	43.35	54.00	10.65	V	18	25.35
15647.000000	45.73	54.00	8.27	H	20	25.73
17023.500000	46.57	54.00	7.43	H	23	23.57
17700.500000	45.57	54.00	8.43	V	23	22.57

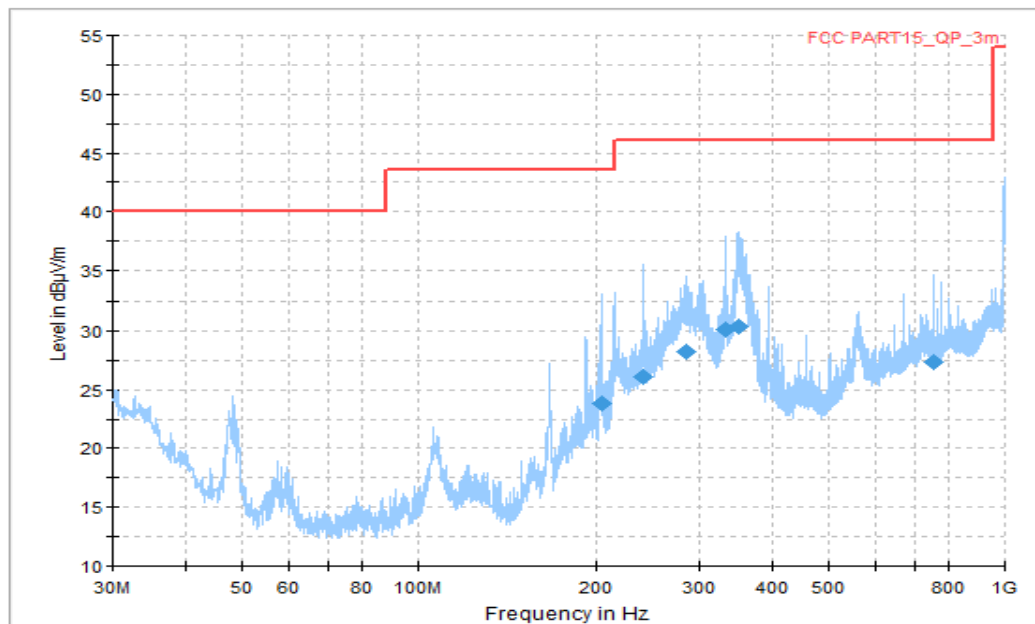


Figure A.23 Radiated Emission (Set.3, Data Transfer : PC to TF Card, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
203.933125	23.78	43.52	19.74	H	-17	40.78
240.005000	26.15	46.02	19.87	V	-15	41.15
285.595000	28.26	46.02	17.76	H	-14	42.26
332.700625	30.07	46.02	15.95	H	-12	42.07
350.039375	30.37	46.02	15.65	H	-11	41.37
755.984375	27.31	46.02	18.71	H	-2	29.31

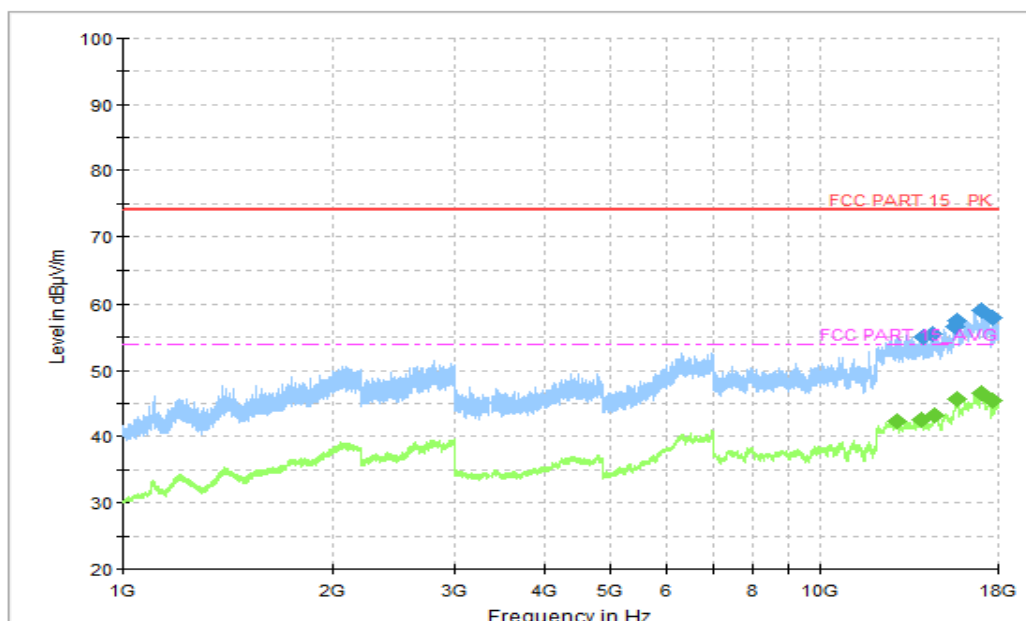


Figure A.24 Radiated Emission (Set.3, Data Transfer : PC to TF Card, 1GHz to 18GHz)
Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
14064.500000	55.05	74.00	18.95	H	17	38.05
14522.750000	55.45	74.00	18.55	H	18	37.45
15575.250000	56.54	74.00	17.46	V	20	36.54
15688.250000	57.58	74.00	16.42	V	20	37.58
16987.750000	59.20	74.00	14.80	V	23	36.2
17684.500000	57.89	74.00	16.11	V	23	34.89

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
12895.000000	42.39	54.00	11.61	V	17	25.39
13955.000000	42.55	54.00	11.45	V	17	25.55
14562.500000	43.29	54.00	10.71	V	18	25.29
15664.500000	45.69	54.00	8.31	H	20	25.69
17050.000000	46.51	54.00	7.49	H	22	24.51
17706.750000	45.41	54.00	8.59	H	23	22.41

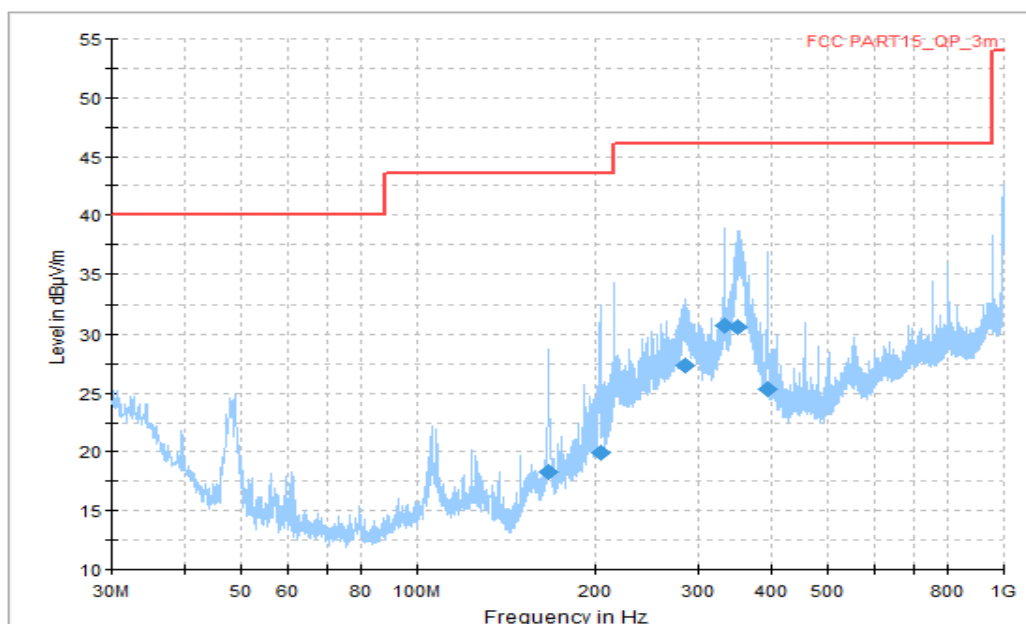


Figure A.25 Radiated Emission (Set.3, Data Transfer : TF Card to PC, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
165.981875	18.25	43.52	25.27	V	-18	36.25
204.115000	19.91	43.52	23.61	H	-17	36.91
284.564375	27.29	46.02	18.73	H	-14	41.29
331.851875	30.78	46.02	15.24	H	-12	42.78
350.342500	30.58	46.02	15.44	H	-11	41.58
394.053125	25.36	46.02	20.66	V	-9	34.36

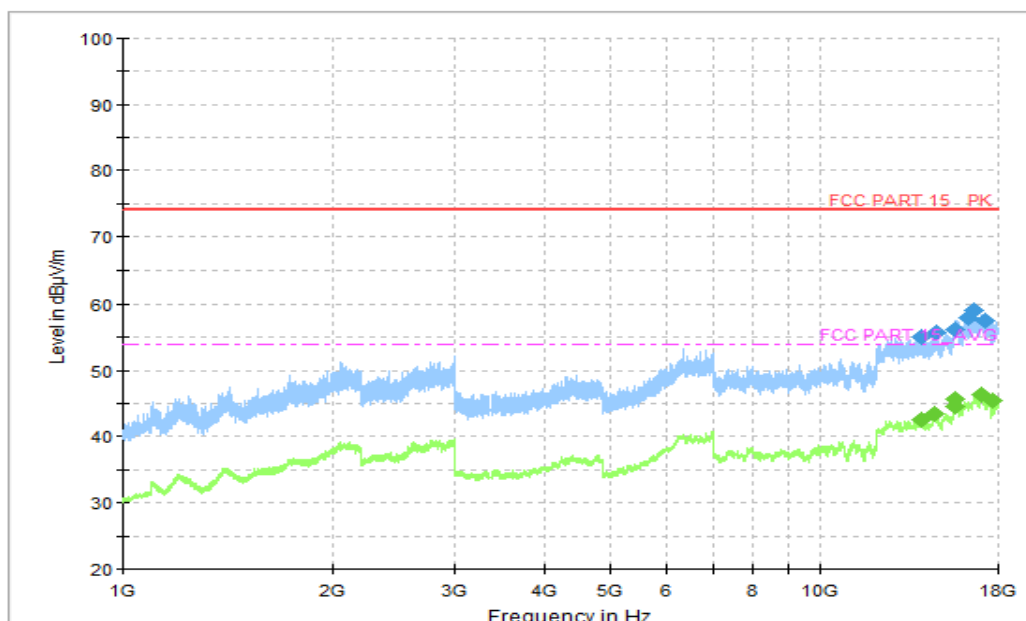


Figure A.26 Radiated Emission (Set.3, Data Transfer : TF Card to PC, 1GHz to 18GHz)
Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13939.750000	55.11	74.00	18.89	H	17	38.11
14705.500000	55.84	74.00	18.16	V	18	37.84
15569.250000	56.25	74.00	17.75	V	20	36.25
16282.500000	57.88	74.00	16.12	V	21	36.88
16622.750000	59.14	74.00	14.86	H	22	37.14
17218.000000	57.50	74.00	16.50	H	22	35.50

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13952.000000	42.51	54.00	11.49	V	17	25.51
14562.000000	43.39	54.00	10.61	V	18	25.39
15573.000000	44.69	54.00	9.31	H	20	24.69
15644.250000	45.63	54.00	8.37	H	20	25.63
17024.000000	46.36	54.00	7.64	V	23	23.36
17698.500000	45.42	54.00	8.58	H	23	22.42

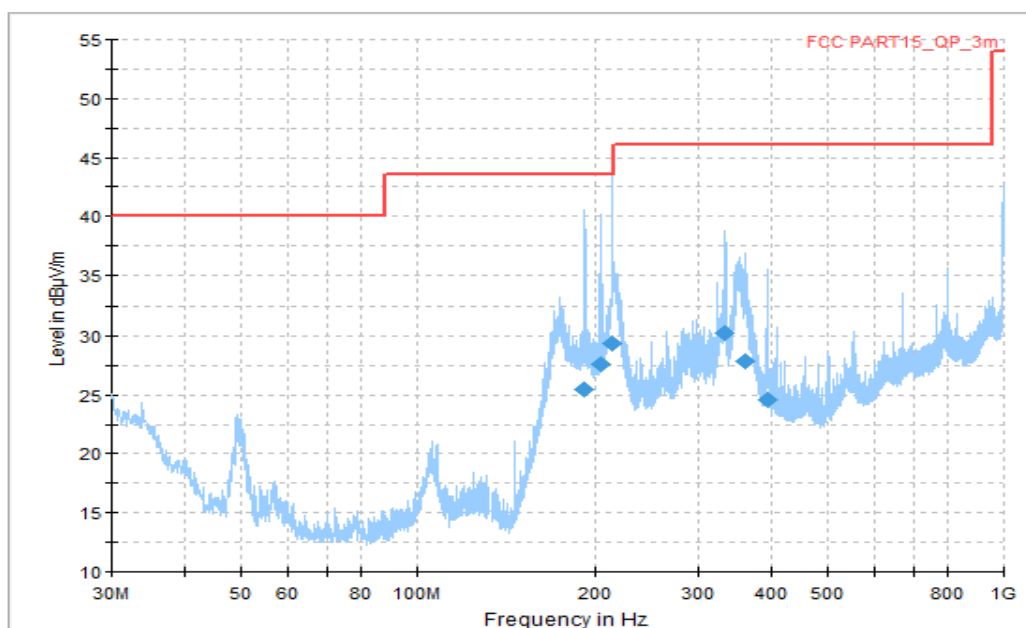


Figure A.27 Radiated Emission (Set.4, Data Transfer : EUT to PC, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
191.990000	25.51	43.52	18.01	H	-18	43.51
203.993750	27.59	43.52	15.93	H	-17	44.59
214.360625	29.42	43.52	14.10	H	-17	46.42
332.821875	30.28	46.02	15.74	H	-12	42.28
359.800000	27.82	46.02	18.20	H	-10	37.82
393.992500	24.54	46.02	21.48	V	-9	33.54

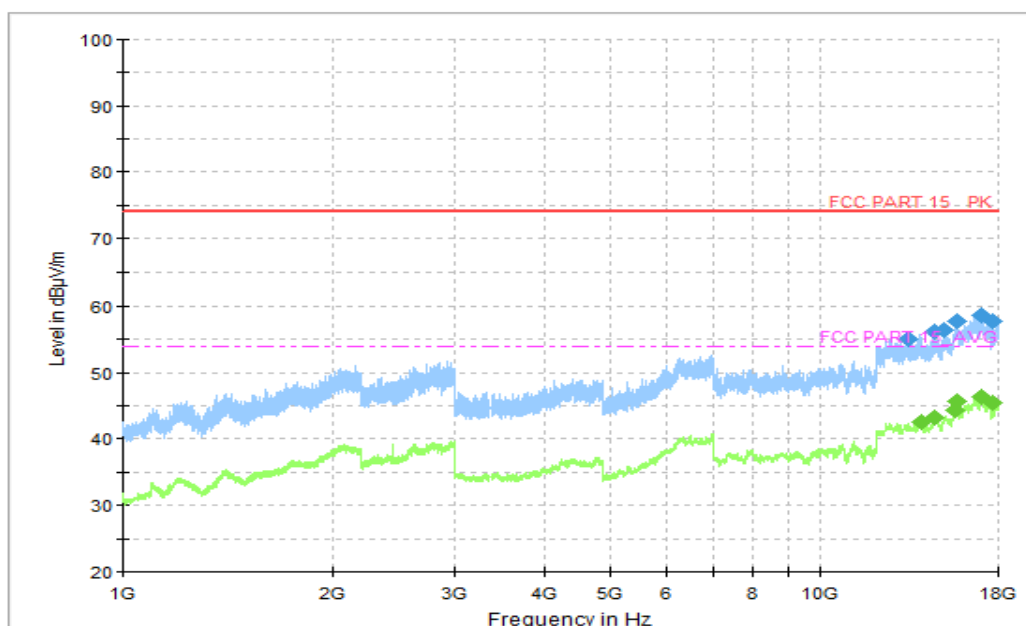


Figure A.28 Radiated Emission (Set.4, Data Transfer : EUT to PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13342.750000	55.01	74.00	18.99	V	17	38.01
14556.750000	56.11	74.00	17.89	V	18	38.11
15072.250000	56.46	74.00	17.54	H	18	38.46
15670.750000	57.84	74.00	16.16	V	20	37.84
17018.000000	58.65	74.00	15.35	H	23	35.65
17704.000000	57.87	74.00	16.13	V	23	34.87

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
13958.500000	42.54	54.00	11.46	H	17	25.54
14537.750000	43.30	54.00	10.70	V	18	25.3
15575.750000	44.37	54.00	9.63	V	20	24.37
15673.750000	45.66	54.00	8.34	H	20	25.66
17021.250000	46.32	54.00	7.68	H	23	23.32
17697.000000	45.47	54.00	8.53	V	23	22.47

END OF REPORT