



TEST REPORT

No.I23N00836-EMC

for

Shanghai Sunmi Technology Co.,Ltd.

Smart POS Terminal

Model Name: T6721

With

Hardware Version: Bgf6d

Software Version: SP6611A_V003_20230409_sunmi_CS

FCC ID:2AH25P3MIX

Issued Date: 2023-07-18

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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No.I23N00836-EMC

REPORT HISTORY

Report Number	Revision	Description	Issue Date
I23N00836-EMC	Rev.0	1st edition	2023-07-18

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

CONTENTS

1. SUMMARY OF TEST REPORT.....	4
1.1. TEST ITEMS	4
1.2. TEST STANDARDS	4
1.3. TEST RESULT	4
1.4. TESTING LOCATION	4
1.5. PROJECT DATA	4
1.6. SIGNATURE	4
2. CLIENT INFORMATION.....	5
2.1. APPLICANT INFORMATION	5
2.2. MANUFACTURER INFORMATION	5
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	6
3.1. ABOUT EUT	6
3.2. INTERNAL IDENTIFICATION OF EUT	6
3.3. INTERNAL IDENTIFICATION OF AE	6
3.4. EUT SET-UPS.....	7
3.5. GENERAL DESCRIPTION	8
4. REFERENCE DOCUMENTS	9
4.1. REFERENCE DOCUMENTS FOR TESTING	9
5. LABORATORY ENVIRONMENT	10
6. SUMMARY OF TEST RESULTS	11
6.1. TESTING ENVIRONMENT	11
6.2. SUMMARY OF MEASUREMENT RESULTS.....	11
6.3. STATEMENT	11
7. MEASUREMENT UNCERTAINTY	12
9. TEST ACCESSORY UTILIZED.....	13
ANNEX A: MEASUREMENT RESULTS.....	14
A.1 RADIATED EMISSION (§15.109(A)).....	14
A.2 CONDUCTED EMISSION (§15.107(A)).....	65

1. SUMMARY OF TEST REPORT

1.1. Test Items

Description	Smart POS Terminal
Model Name	T6721
Applicant's name	Shanghai Sunmi Technology Co.,Ltd.
Manufacturer's Name	Shanghai Sunmi Technology Co.,Ltd.

1.2. Test Standards

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

1.3. Test Result

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

1.4. Testing Location

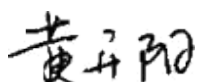
Address: EMC Lab,Building G, Shenzhen International Innovation Center,
No.1006 Shennan Road, Futian District, Shenzhen, Guangdong,
China

1.5. Project data

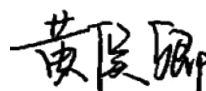
Testing Start Date: 2023-06-20

Testing End Date: 2023-07-07

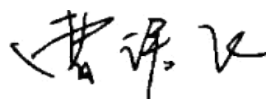
1.6. Signature



Huang Kaiyang
(Prepared this test report)



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(Reviewed this test report)



Cao Junfei
(Approved this test report)



2. CLIENT INFORMATION

2.1. Applicant Information

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2.2. Manufacturer Information

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3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT

(AE)

3.1. About EUT

Description	Smart POS Terminal
Model Name	T6721
FCC ID	2AH25P3MIX
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
UT05aa	868189060008648	Bgf6d	SP6611A_V003_20230409_sunmi_CS	2023-05-20
UT08aa	868189060008648	Bgf6d	SP6611A_V003_20230409_sunmi_CS	2023-05-20
UT09aa	868189060008648	Bgf6d	SP6611A_V003_20230409_sunmi_CS	2023-05-20

*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

AE1-1

Model	LKPA
Manufacturer	Guangdong Pow-Tech New Power Co., Ltd.
Capacity	2500mAh
Nominal Voltage	7.2 V

AE1-2

Model	CR2032
Manufacturer	POWER GLORY BATTERY TECH(HK) CO LTD
Capacity	220mAh
Nominal Voltage	3 V

AE1-3

Model	CR2032
Manufacturer	JHIH HONG TECHNOLOGY CO LTD
Capacity	220mAh



Nominal Voltage	3 V
AE2-1	
Model	TPA-23A050200UU01
Manufacturer	SHENZHEN TIANYIN ELECTRONICS CO., LTD.
AE2-2	
Model	UC13US
Manufacturer	Jiangsu Chenyang Electron Co., Ltd.
AE3-1	
Model	SSM-A001A
Manufacturer	Saibao (Jiangxi) Industry Co., LTD

3.4. EUT Set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT+AE1-1+AE2-1+AE3-1	
Set.2	EUT+AE1-1+AE2-2+AE3-1	
Set.3	EUT+AE1-1+AE2-1+AE3-1+PC+ USB flash disk	
Set.4	EUT+AE1-2+AE2-1+AE3-1	

3.5. General Description

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

It supports GSM 850/900/1800MHz, WCDMA Bands 1/2/4/5/8, LTE Bands

1/2/3/4/5/7/12/13/14/17/18/19/25/26/28/30/38/41/66/71.

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

It consists of normal options: Battery, Charge and Data Cable.

Manual and specifications of the EUT were provided to fulfill the test.

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

This report is based on the model T6721 (Initial) for the primary test. Also, this report also serves as records of T6721, the table below shows the differences;

Model	Configuration	type	printer
T6721(Initial)	P80	financial	80mm tip
T6721(Record 1)	P58(tax-control)	financial	58mm tip
T6721(Record 2)	P58(tax-control)	financial	58mm fine workmanship

According to the declaration of differences by manufacturer, in addition the following tests need to be performed :

NO.	Test item	Model	EUT ID	Operating mode
1	Conducted Emission	T6721(Record 1)	UT08aa	Scanner and printer
		T6721(Record 2)	UT09aa	Scanner and printer
2	Radiated Emission	T6721(Record 1)	UT08aa	Scanner and printer
		T6721(Record 2)	UT09aa	Scanner and printer

Other results are cited from the initial model T6721(Initial).

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

5. LABORATORY ENVIRONMENT

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

9.10m×6.10m×5.60m (L×W×H)

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

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

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

6. SUMMARY OF TEST RESULTS

6.1. Testing Environment

Normal Temperature: 15~35℃
Relative Humidity: 20~75%
Atmospheric pressure 86~106kPa

6.2. Summary of Measurement Results

Abbreviations used in this clause:	
P	Pass
NA	Not applicable
F	Fail

Items	Test Name	Clause in FCC/IC rules	Section in this report	Verdict
1	Radiated Emission	15.109(a)/ Section 6.2	A.1	P
2	Conducted Emission	15.107(a)/ Section 6.1	A.2	P

6.3. Statement

6.3.1 Statements of conformity

This report takes measured values as criterion of test conclusion. The test conclusion meets the limit requirements.

7. MEASUREMENT UNCERTAINTY

Test item	Frequency ranges	Measurement uncertainty
Radiated Emission	30MHz-1GHz	4.80dB(k=2)
	1GHz-18GHz	4.62dB(k=2)
Conducted Emission	150kHz-30MHz	2.68dB(k=2)

8. MEASURING APPARATUS UTILIZED

No.	Name	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1.	Test Receiver	ESR7	101676	R&S	2023.11.23	1 year
2.	Test Receiver	ESCI	100702	R&S	2024.01.11	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2024.01.11	1 year
4.	BiLog Antenna	3142E	0224831	ETS-Lindgren	2024.05.27	3 years
5.	Horn Antenna	3117	00066577	ETS-Lindgren	2025.04.17	3 years
6.	LISN	ENV216	102067	R&S	2023.09.06	1 year
7.	Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2025.05.28	2 years
8.	Software	EMC32	V10.50.40	R&S	/	/
9.	Universal Radio Communication Tester	CMU200	114545	R&S	2024.01.11	1 year
10.	Universal Radio Communication Tester	CMW500	152499	R&S	2024.07.13	1 year



No.I23N00836-EMC

9. TEST ACCESSORY UTILIZED

No.	Name	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1.	PC	ThinkPad T480	PF-13LW0C	Lenovo	/	/
2.	Printer	P1008	VNF6C12491	HP	/	/
3.	Mouse	MOEUUOA	44NY517	Lenovo	/	/

ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission (§15.109(a))

Reference

FCC: Part 15.109(a)

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator at a distance of 3 meters or 1 meter is tested. Tested in accordance with the procedures of ANSI C63.4 -2014, section 8.3. The EUT was placed on a non-conductive table. Below 18GHz the measurement antenna was placed at a distance of 3 meters from the EUT. Above 18GHz the measurement antenna was placed at a distance of 1 meters from the EUT. (According to Part 15.31(f)(1), 1m limit is calculated by extrapolation factor of 20 dB/decade) During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

A.1.2 EUT Operating Mode:

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

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

Scanner and printer: The EUT is connected to a charger for charging and keeping on Scanning and printing.

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 USB flash disk reading and erasing the data after copy action was finished.

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

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

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

This device contains the receivers which tune and operate between 30MHz-960MHz in the following bands: GSM 850MHz, WCDMA B5, LTE Band 5, LTE Band 12, LTE Band 13, LTE Band 5, LTE Band 14, LTE Band 71.

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



No.I23N00836-EMC

All equipment is placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions. For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

A.1.3 Measurement Limit

Limit from Part 15.109(a)

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

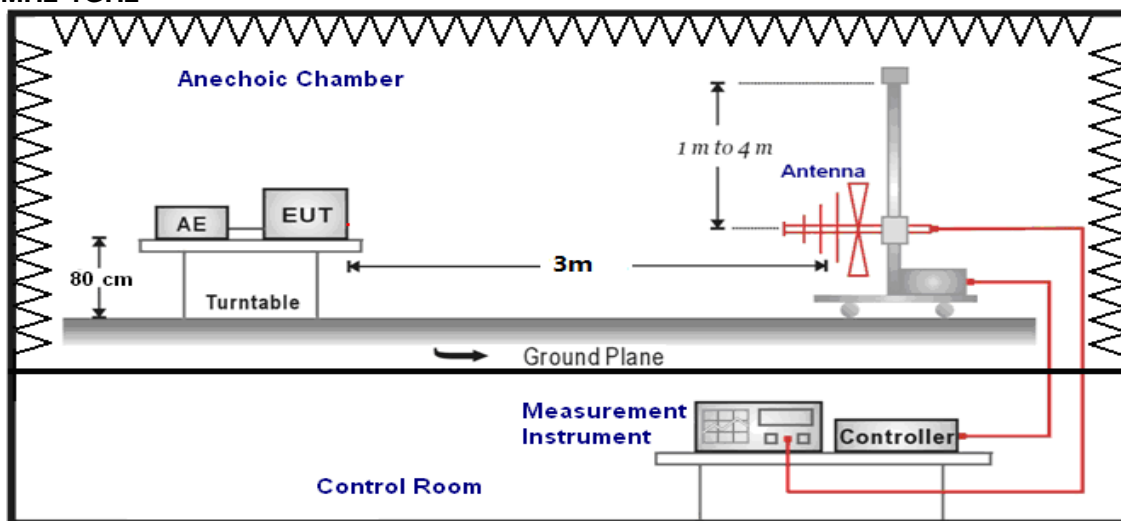
*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

A.1.4 Test Condition

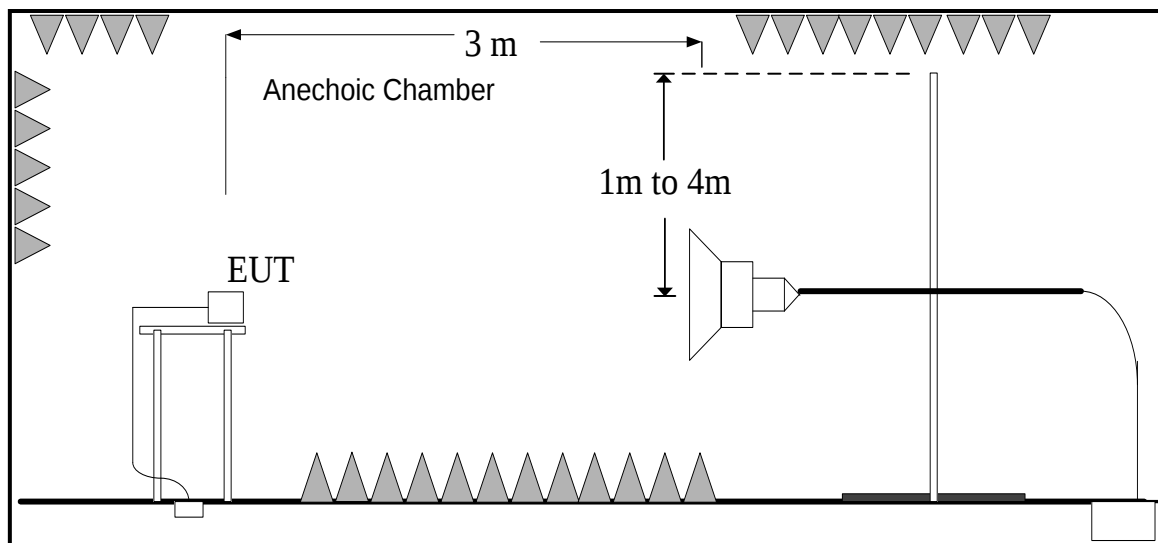
Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

A.1.5 Test set-up:

30MHz-1GHz



1GHz-40GHz



A.1.6 Measurement Results

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

The measurement results are obtained as described below:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{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

Camera

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Figure A.1.1.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.2.	P
18000 to 26500	63.54	83.54	See Figure A.1.3.	
26500 to 40000	63.54	83.54	See Figure A.1.4.	

Video Player

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Figure A.1.5.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.6.	P
18000 to 26500	63.54	83.54	See Figure A.1.7.	
26500 to 40000	63.54	83.54	See Figure A.1.8.	

Video Player

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.2	
30-88	40.00	See Figure A.1.9.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.2	
1000 to 18000	54.00	74.00	See Figure A.1.10.	P
18000 to 26500	63.54	83.54	See Figure A.1.11.	
26500 to 40000	63.54	83.54	See Figure A.1.12.	

Scanner and printer

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Figure A.1.13.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.14.	P
18000 to 26500	63.54	83.54	See Figure A.1.15.	
26500 to 40000	63.54	83.54	See Figure A.1.16.	

Scanner and printer

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT08aa/Set.1	
30-88	40.00	See Figure A.1.17.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT08aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.18.	P
18000 to 26500	63.54	83.54	See Figure A.1.19.	
26500 to 40000	63.54	83.54	See Figure A.1.20.	

Scanner and printer

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT09aa/Set.4	
30-88	40.00	See Figure A.1.21.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT09aa/Set.4	
1000 to 18000	54.00	74.00	See Figure A.1.22.	P
18000 to 26500	63.54	83.54	See Figure A.1.23.	
26500 to 40000	63.54	83.54	See Figure A.1.24.	

GSM receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Figure A.1.25.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.26.	P
18000 to 26500	63.54	83.54	See Figure A.1.27.	
26500 to 40000	63.54	83.54	See Figure A.1.28.	

WCDMA receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Figure A.1.29.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.30.	P
18000 to 26500	63.54	83.54	See Figure A.1.31.	
26500 to 40000	63.54	83.54	See Figure A.1.32.	

LTE receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Figure A.1.33.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.34.	P
18000 to 26500	63.54	83.54	See Figure A.1.35.	
26500 to 40000	63.54	83.54	See Figure A.1.36.	

LTE receiver Band 12

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Figure A.1.37.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.38.	P
18000 to 26500	63.54	83.54	See Figure A.1.39.	
26500 to 40000	63.54	83.54	See Figure A.1.40.	

LTE receiver Band 13

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Figure A.1.41.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.42.	P
18000 to 26500	63.54	83.54	See Figure A.1.43.	
26500 to 40000	63.54	83.54	See Figure A.1.44.	

LTE receiver Band 14

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Figure A.1.45.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.46.	P
18000 to 26500	63.54	83.54	See Figure A.1.47.	
26500 to 40000	63.54	83.54	See Figure A.1.48.	

LTE receiver Band 71

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Figure A.1.49.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.50.	P
18000 to 26500	63.54	83.54	See Figure A.1.51.	
26500 to 40000	63.54	83.54	See Figure A.1.52.	

Data Transfer

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.3	
30-88	40.00	See Figure A.1.53.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.3	
1000 to 18000	54.00	74.00	See Figure A.1.54.	P
18000 to 26500	63.54	83.54	See Figure A.1.55.	
26500 to 40000	63.54	83.54	See Figure A.1.56.	

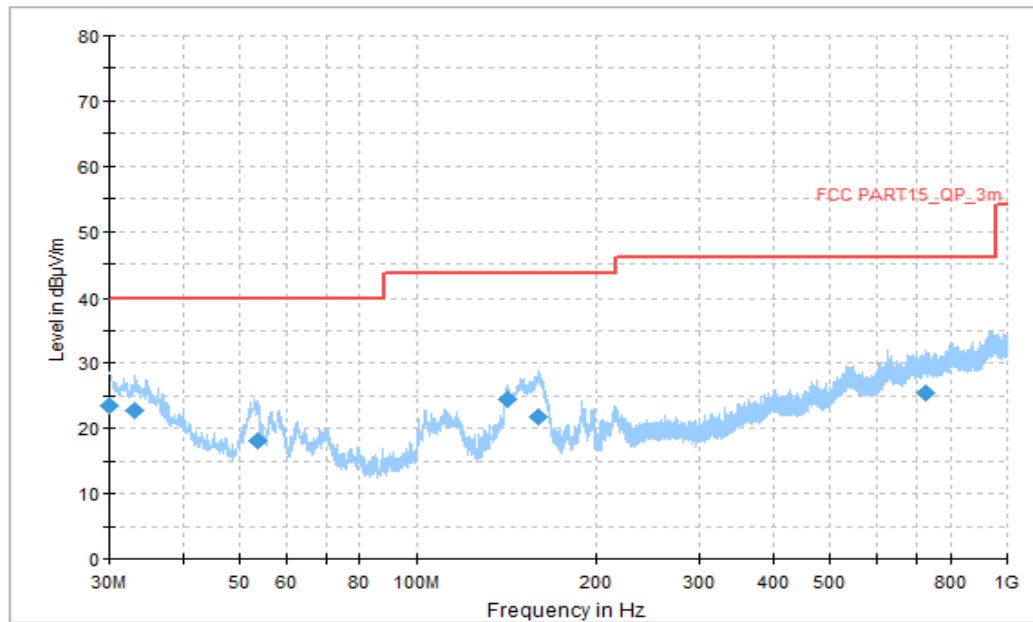


Figure A.1.1. Radiated Emission (Camera, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
30.053889	23.47	40.00	16.53	V	-11	34.47
33.233333	22.84	40.00	17.16	V	-13	35.84
53.441667	18.03	40.00	21.97	V	-21	39.03
141.388333	24.55	43.52	18.97	H	-18	42.55
159.710556	21.82	43.52	21.70	V	-16	37.82
728.400000	25.50	46.02	20.52	V	-1	26.50

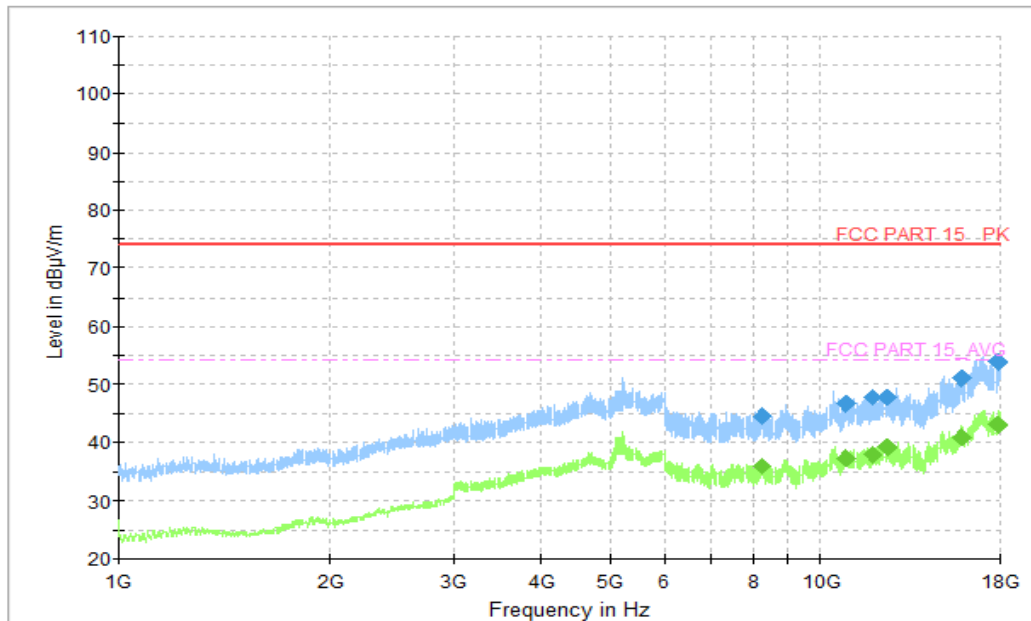


Figure A.1.2. Radiated Emission (Camera, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8262.923077	44.45	74.00	29.55	V	5.9	38.55
10843.384615	46.82	74.00	27.18	V	9.2	37.62
11866.615385	47.68	74.00	26.32	H	10.1	37.58
12451.384615	47.89	74.00	26.11	H	11.4	36.49
15872.307692	51.11	74.00	22.89	V	14.0	37.11
17935.846154	53.79	74.00	20.21	H	19.0	34.79

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8262.923077	35.99	54.00	18.01	V	5.9	30.09
10843.384615	37.37	54.00	16.63	V	9.2	28.17
11866.615385	37.93	54.00	16.07	H	10.1	27.83
12451.384615	39.23	54.00	14.77	H	11.4	27.83
15872.307692	40.86	54.00	13.14	V	14.0	26.86
17935.846154	43.18	54.00	10.82	H	19.0	24.18

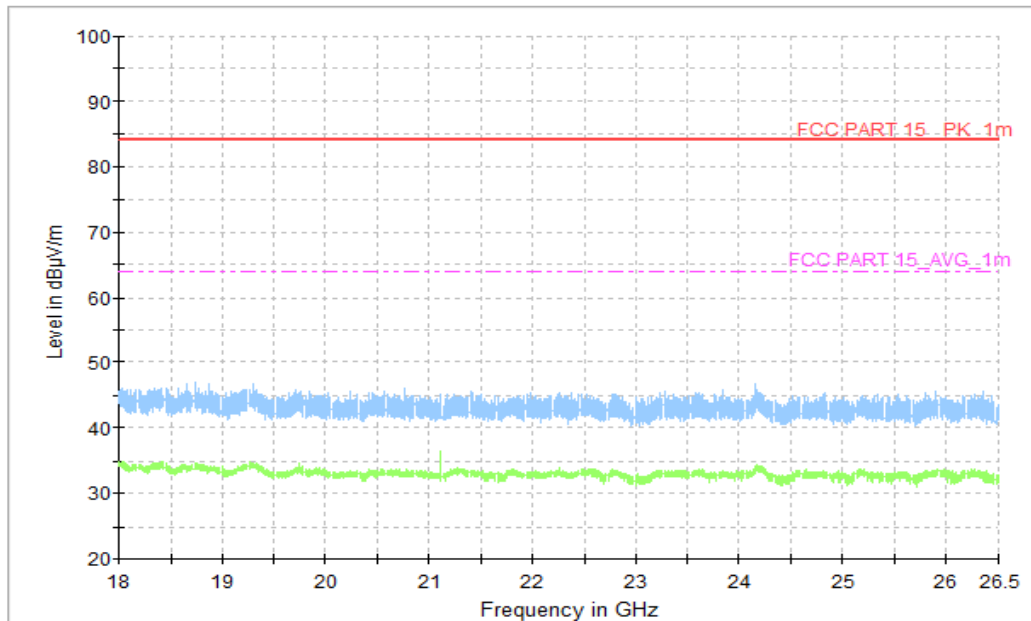


Figure A.1.3. Radiated Emission (Camera , 18GHz to 26.5GHz)

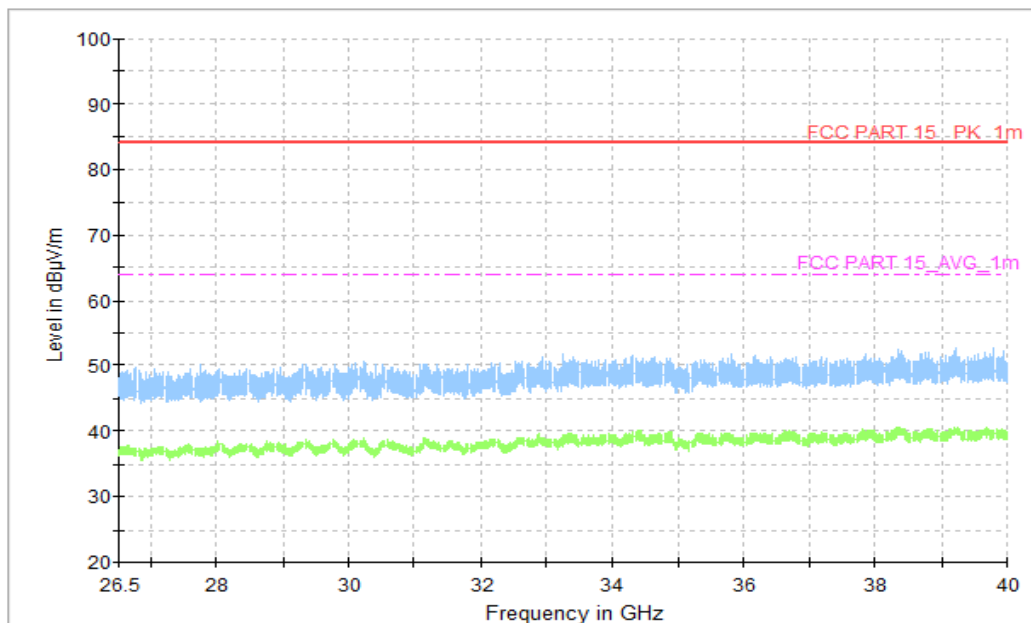


Figure A.1.4. Radiated Emission (Camera , 26.5GHz to 40GHz)

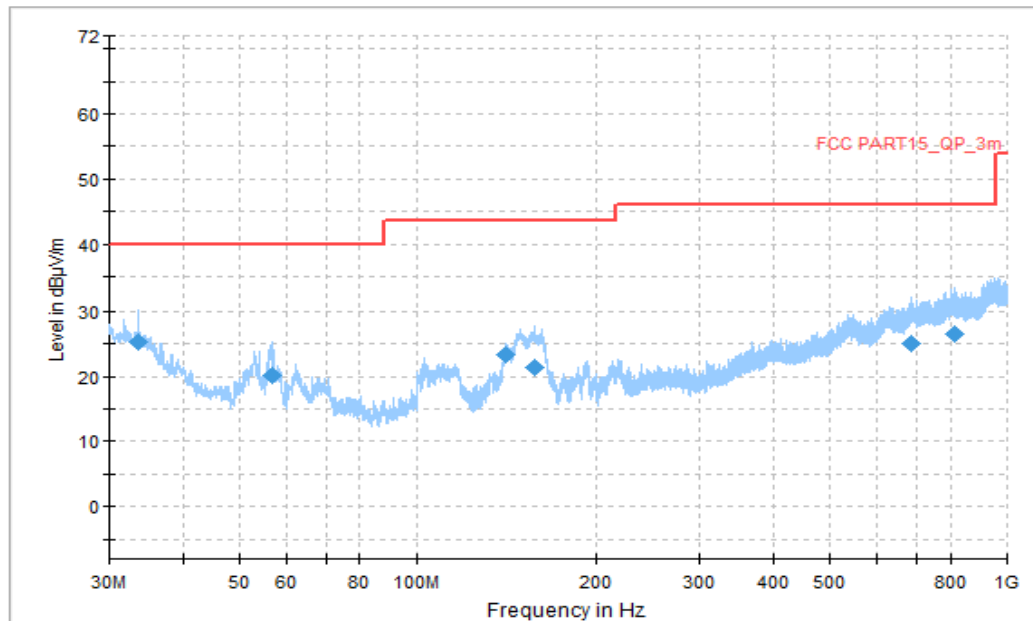


Figure A.1.5. Radiated Emission (Video Player, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
33.610556	25.19	40.00	14.81	V	-14	39.19
56.944444	20.05	40.00	19.95	V	-21	41.05
140.795556	23.35	43.52	20.17	H	-18	41.35
156.962222	21.24	43.52	22.28	V	-16	37.24
687.983333	25.13	46.02	20.89	V	-1	26.13
812.089444	26.57	46.02	19.45	H	1	25.57

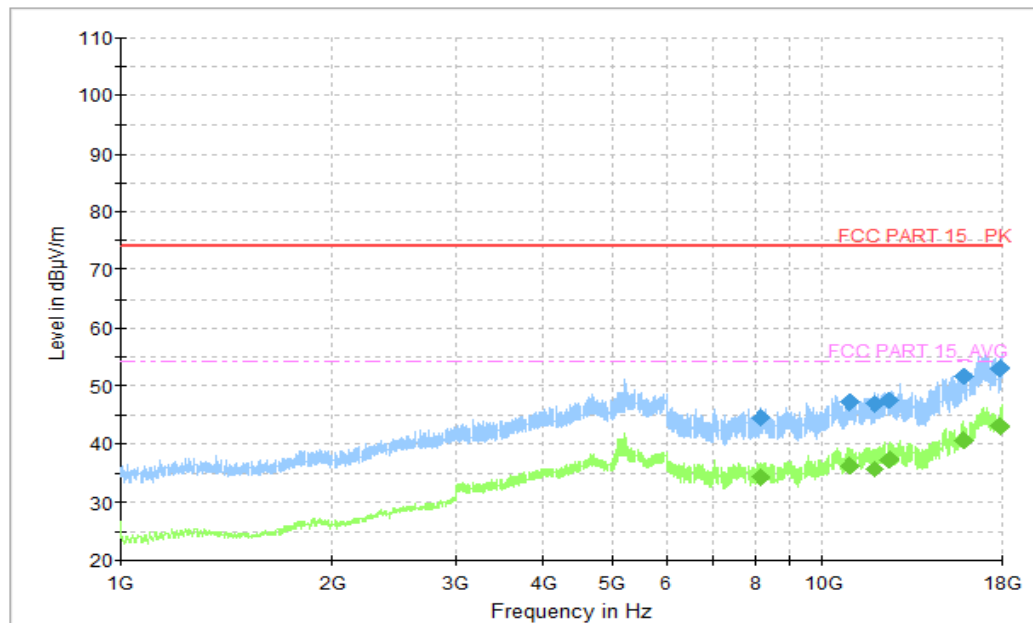


Figure A.1.6. Radiated Emission (Video Player, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8175.230769	44.58	74.00	29.54	H	6.0	38.58
10905.230769	47.21	74.00	26.91	V	9.4	37.81
11866.153846	46.84	74.00	27.28	V	10.1	36.74
12463.846154	47.46	74.00	26.66	V	11.4	36.06
15853.384615	51.70	74.00	22.42	H	14.0	37.7
17930.307692	52.93	74.00	21.19	V	18.9	34.03

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8175.230769	34.27	54.00	19.85	H	6.0	28.27
10905.230769	36.16	54.00	17.96	V	9.4	26.76
11866.153846	35.69	54.00	18.43	V	10.1	25.59
12463.846154	37.47	54.00	16.65	V	11.4	26.07
15853.384615	40.76	54.00	13.36	H	14.0	26.76
17930.307692	43.09	54.00	11.03	V	18.9	24.19

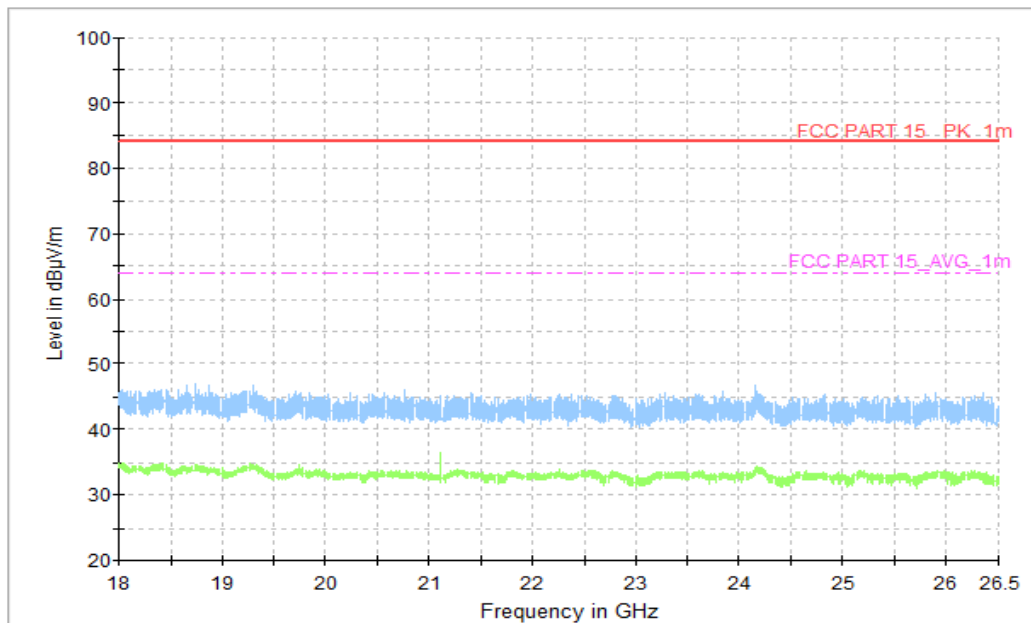


Figure A.1.7. Radiated Emission (Video Player , 18GHz to 26.5GHz)

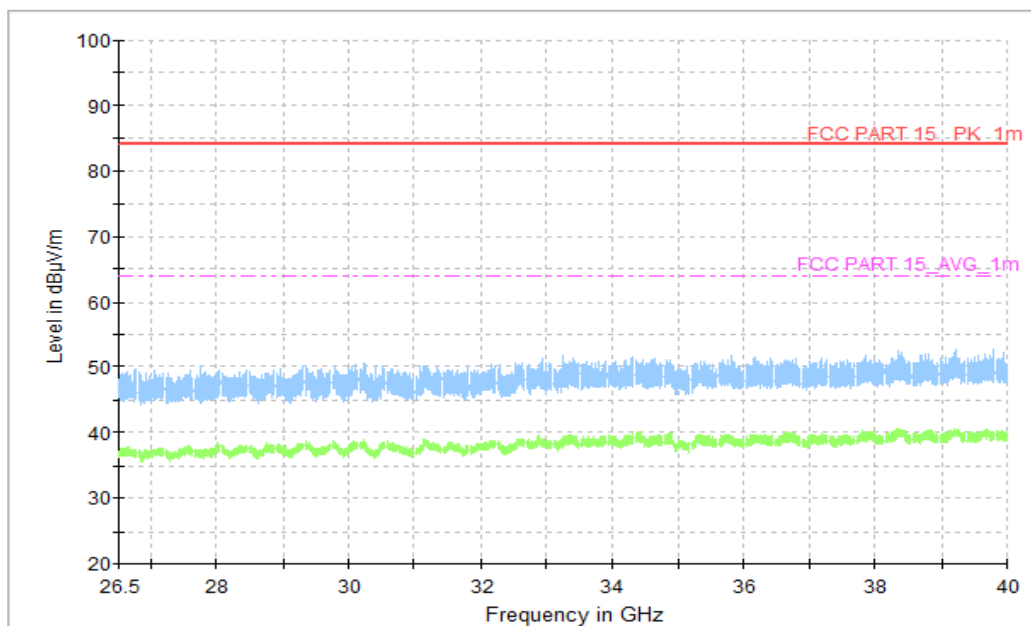


Figure A.1.8. Radiated Emission (Video Player , 26.5GHz to 40GHz)

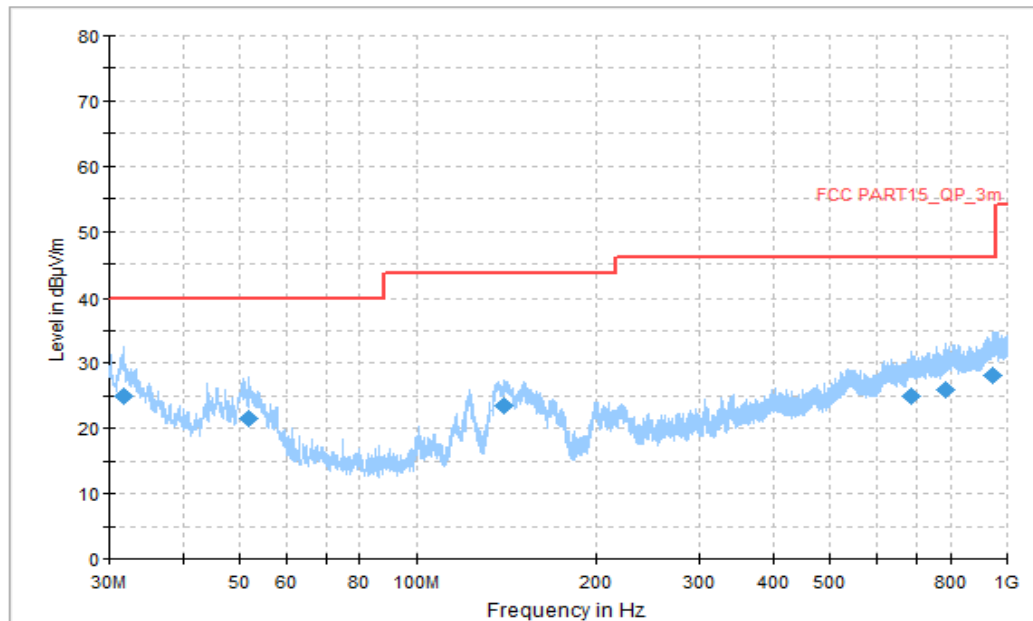


Figure A.1.9. Radiated Emission (Video Player, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
31.670556	24.91	40.00	15.10	V	-12	36.91
51.878889	21.64	40.00	18.36	V	-21	42.64
139.394444	23.56	43.52	19.96	H	-18	41.56
685.396667	24.85	46.02	21.17	V	-1	25.85
788.593889	25.82	46.02	20.20	H	0	25.82
948.212778	28.25	46.02	17.77	H	3	25.25

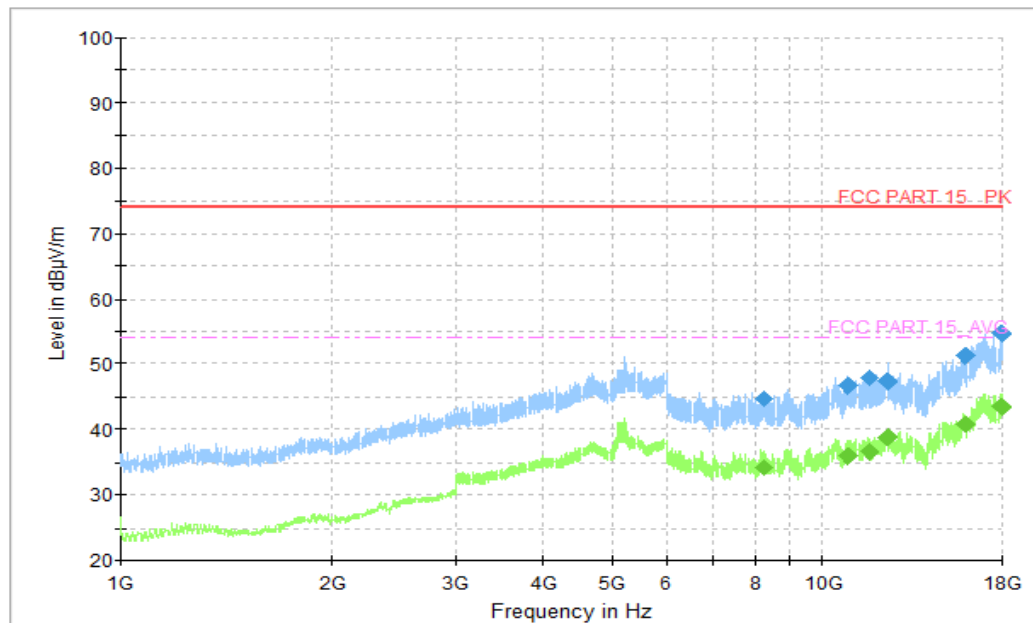


Figure A.1.10. Radiated Emission (Video Player , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8244.923077	44.65	74.00	29.47	H	5.9	38.75
10866.923077	46.72	74.00	27.40	V	9.3	37.42
11624.769231	47.82	74.00	26.30	V	9.9	37.92
12342.923077	47.39	74.00	26.73	V	11.2	36.19
15932.769231	51.36	74.00	22.76	H	14.1	37.26
17983.846154	54.77	74.00	19.35	V	19.2	35.57

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8244.923077	34.10	54.00	20.02	H	5.9	28.20
10866.923077	35.99	54.00	18.13	V	9.3	26.69
11624.769231	36.57	54.00	17.55	V	9.9	26.67
12342.923077	38.78	54.00	15.34	V	11.2	27.58
15932.769231	40.81	54.00	13.31	H	14.1	26.71
17983.846154	43.49	54.00	10.63	V	19.2	24.29

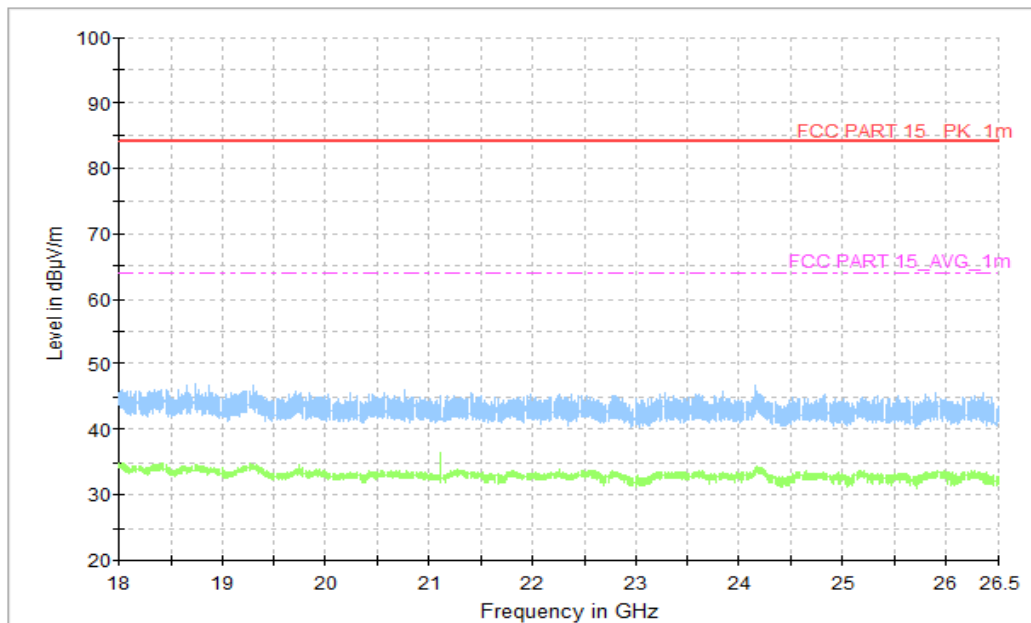


Figure A.1.11. Radiated Emission (Video Player , 18GHz to 26.5GHz)

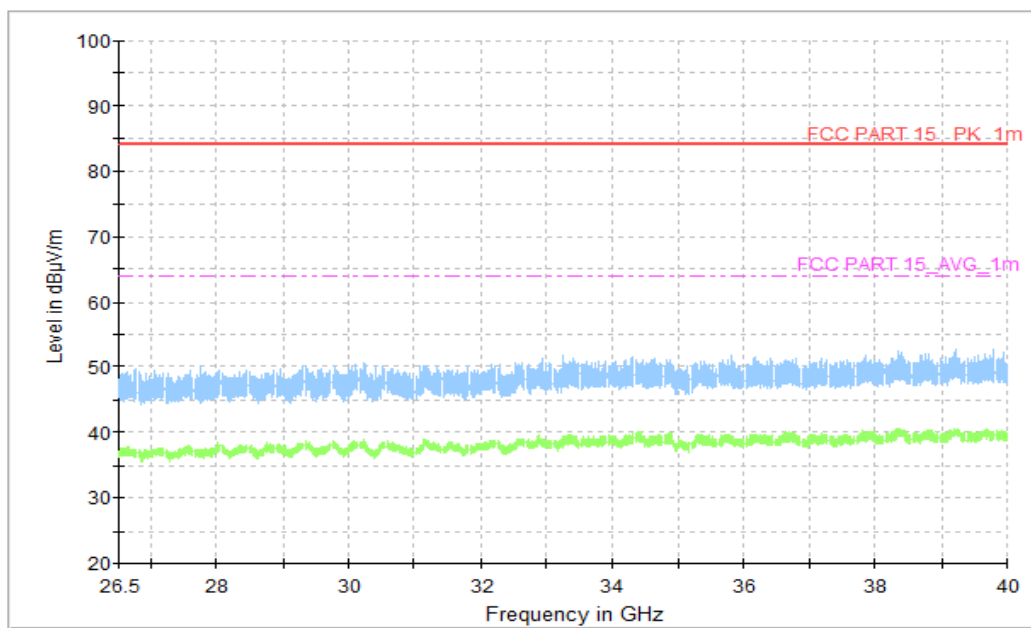


Figure A.1.12. Radiated Emission (Video Player , 26.5GHz to 40GHz)

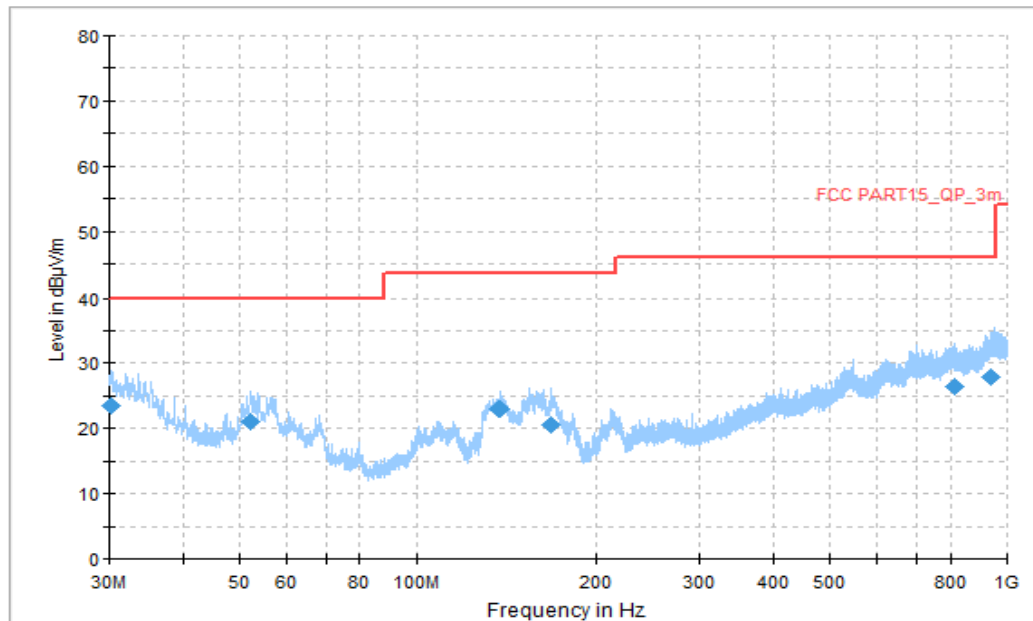


Figure A.1.13. Radiated Emission (Scanner and printer, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
30.269444	23.42	40.00	16.58	V	-12	35.42
52.202222	21.07	40.00	18.93	V	-21	42.07
137.346667	22.99	43.52	20.53	H	-18	40.99
168.278889	20.62	43.52	22.90	V	-17	37.62
811.712222	26.37	46.02	19.65	V	1	25.37
938.566667	27.84	46.02	18.18	V	2	25.84

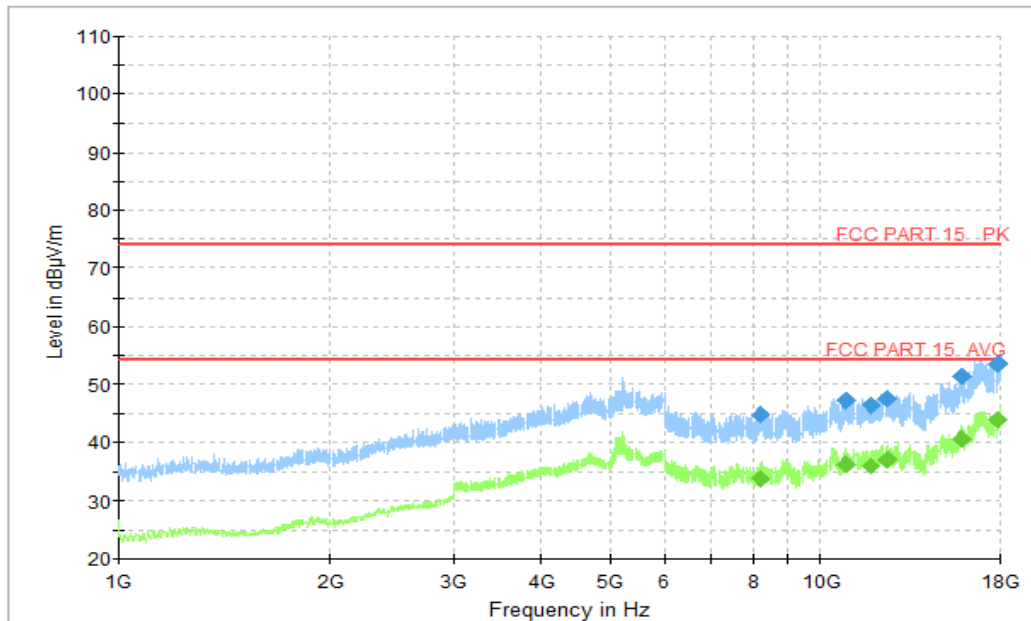


Figure A.1.14. Radiated Emission (Scanner and printer , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8228.769231	44.76	74.00	29.36	V	5.9	38.86
10884.923077	47.20	74.00	26.92	V	9.3	37.9
11827.384615	46.37	74.00	27.75	V	10.0	36.37
12423.230769	47.65	74.00	26.47	H	11.4	36.25
15929.538462	51.24	74.00	22.88	V	14.1	37.14
17938.153846	53.56	74.00	20.56	H	19.0	34.56

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8228.769231	33.80	54.00	20.32	V	5.9	27.90
10884.923077	36.23	54.00	17.89	V	9.3	26.93
11827.384615	35.85	54.00	18.27	V	10.0	25.85
12423.230769	37.18	54.00	16.94	H	11.4	25.78
15929.538462	40.75	54.00	13.37	V	14.1	26.65
17938.153846	43.99	54.00	10.13	H	19.0	24.99

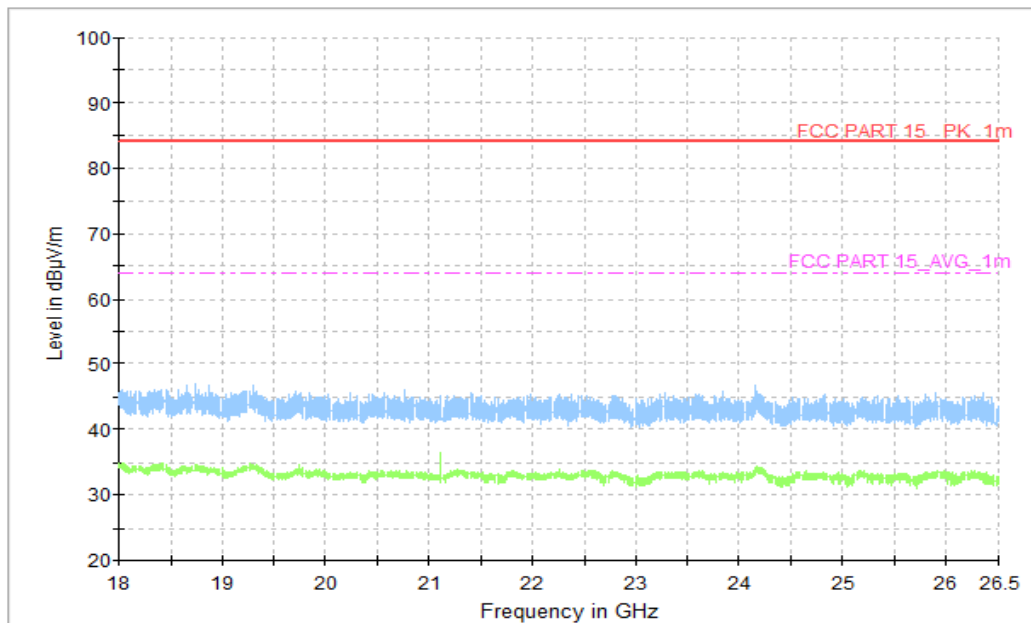


Figure A.1.15. Radiated Emission (Scanner and printer , 18GHz to 26.5GHz)

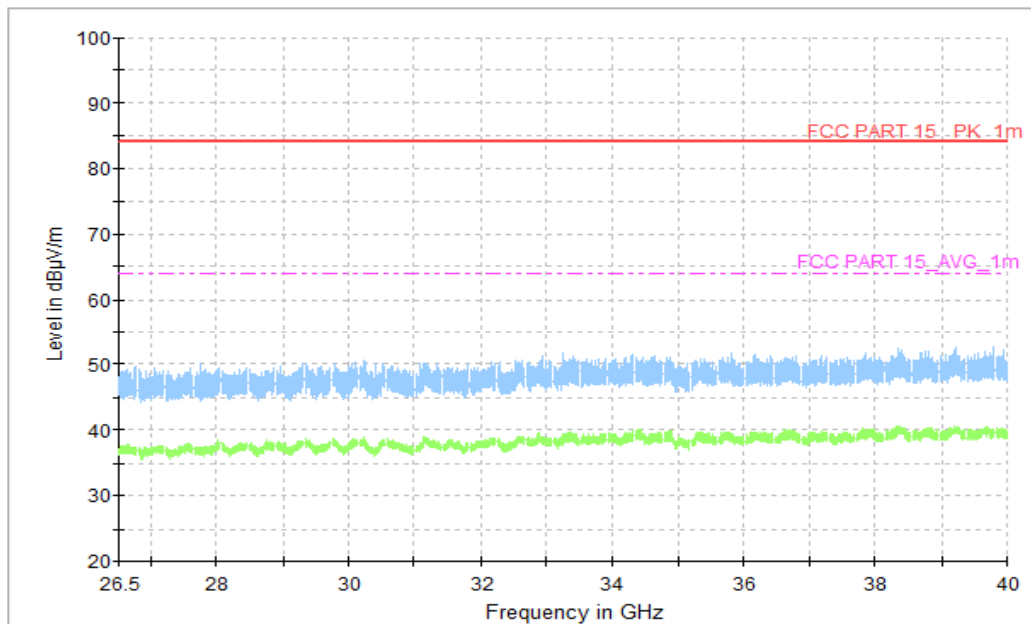


Figure A.1.16. Radiated Emission (Scanner and printer, 26.5GHz to 40GHz)

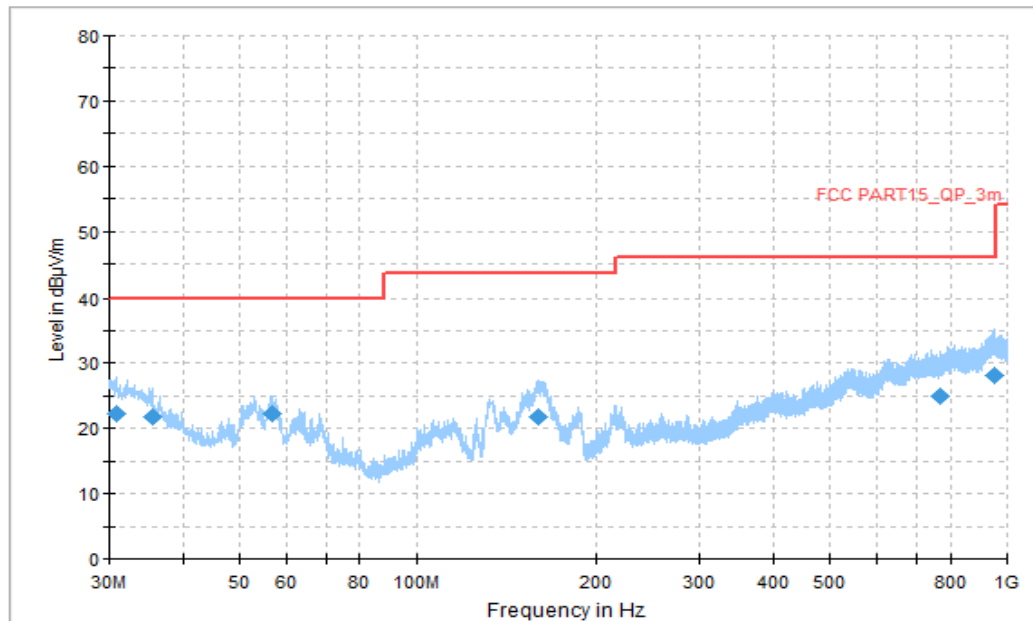


Figure A.1.17. Radiated Emission (Scanner and printer, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
30.862222	22.16	40.00	17.84	V	-12	34.16
35.442778	21.66	40.00	18.34	V	-15	36.66
56.728889	22.17	40.00	17.83	V	-21	43.17
159.710556	21.75	43.52	21.77	V	-16	37.75
769.301667	25.03	46.02	20.99	H	-1	26.03
949.829444	28.25	46.02	17.77	V	3	25.25

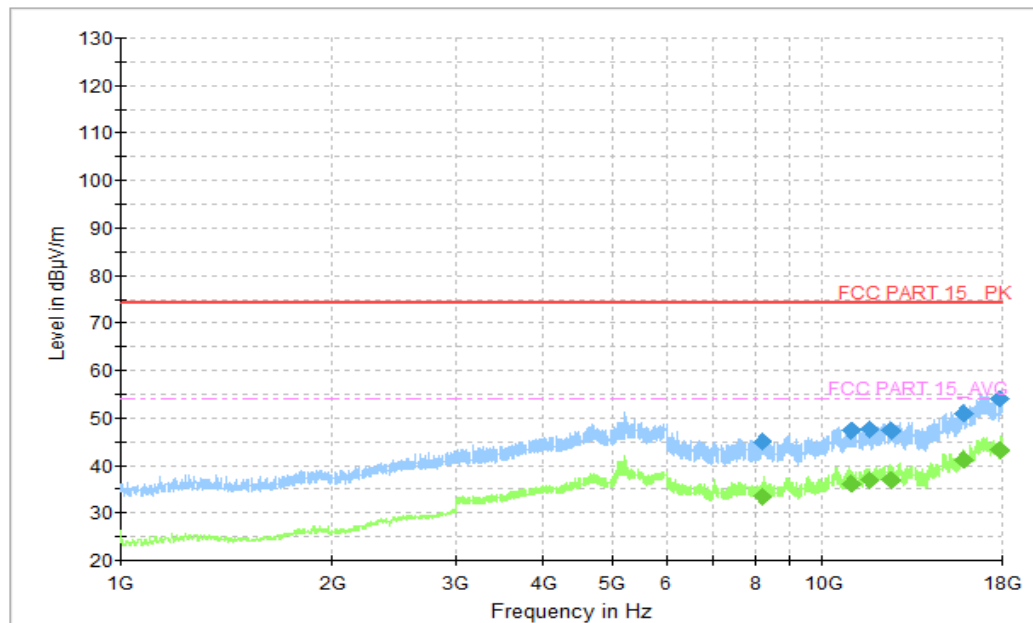


Figure A.1.18. Radiated Emission (Scanner and printer , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8212.615385	44.91	74.00	29.21	H	5.9	39.01
10962.000000	47.15	74.00	26.97	H	9.6	37.55
11624.769231	47.47	74.00	26.65	V	9.9	37.57
12492.461539	47.13	74.00	26.99	V	11.3	35.83
15894.461539	50.94	74.00	23.18	H	14.0	36.94
17932.153846	54.13	74.00	19.99	V	18.9	35.23

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8212.615385	33.49	54.00	20.63	H	5.9	27.59
10962.000000	36.12	54.00	18.00	H	9.6	26.52
11624.769231	36.74	54.00	17.38	V	9.9	26.84
12492.461539	36.91	54.00	17.21	V	11.3	25.61
15894.461539	41.05	54.00	13.07	H	14.0	27.05
17932.153846	43.22	54.00	10.90	V	18.9	24.32

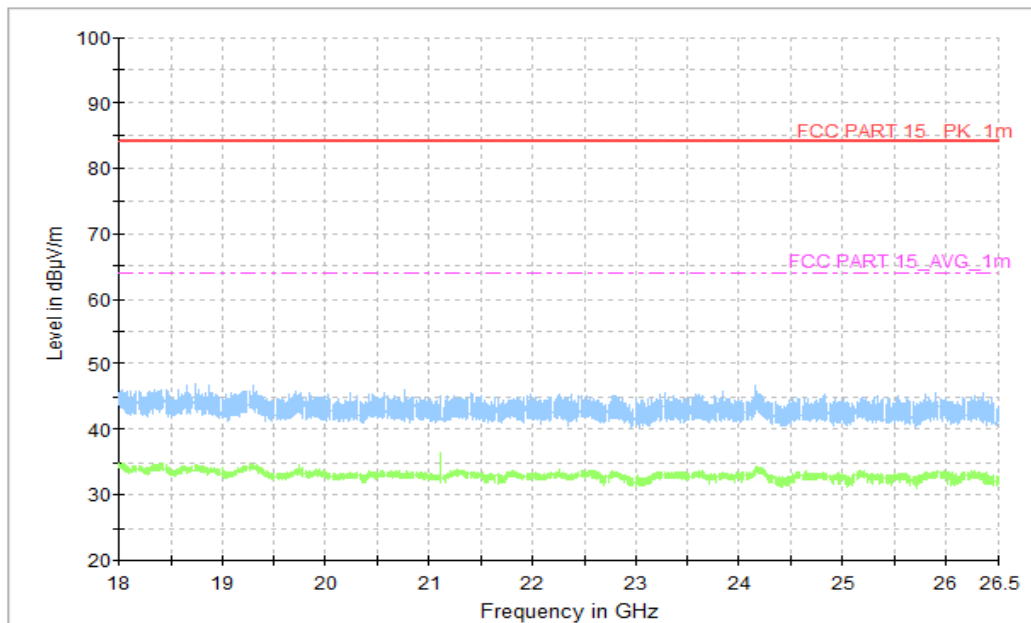


Figure A.1.19. Radiated Emission (Scanner and printer , 18GHz to 26.5GHz)

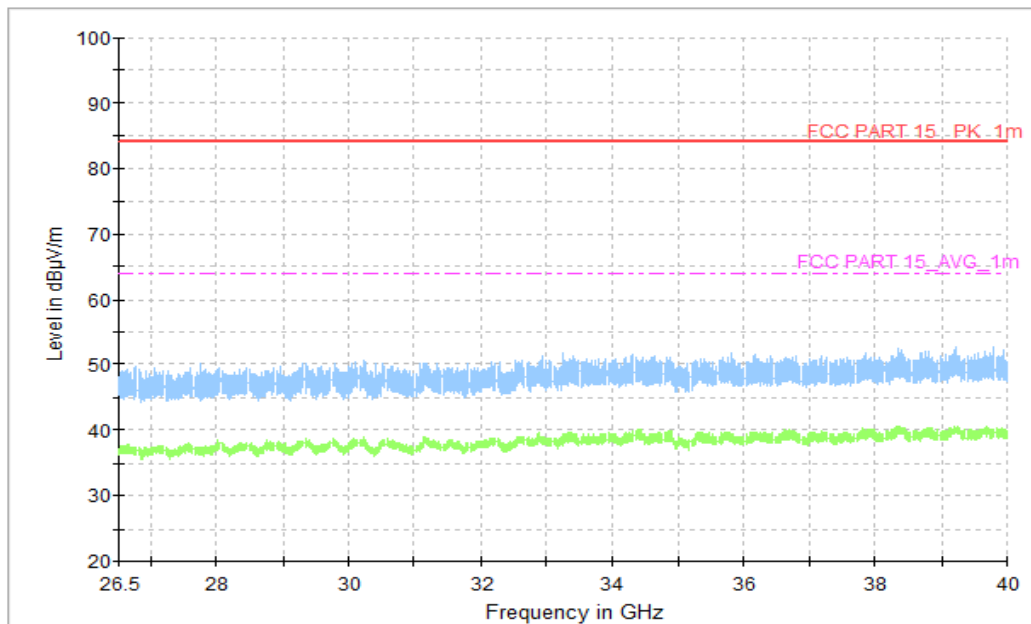


Figure A.1.20. Radiated Emission (Scanner and printer, 26.5GHz to 40GHz)

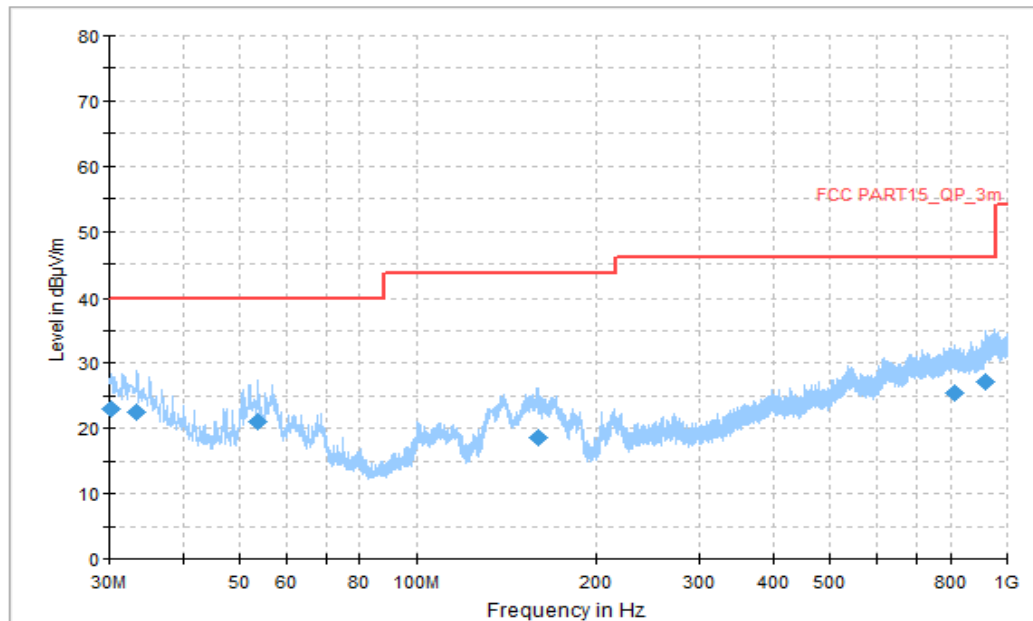


Figure A.1.21. Radiated Emission (Scanner and printer, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
30.269444	22.89	40.00	17.11	V	-12	34.89
33.448889	22.56	40.00	17.44	V	-14	36.56
53.549444	20.95	40.00	19.05	V	-21	41.95
159.980000	18.51	43.52	25.01	V	-16	34.51
815.807778	25.46	46.02	20.56	V	1	24.46
918.358333	27.20	46.02	18.82	V	2	25.20

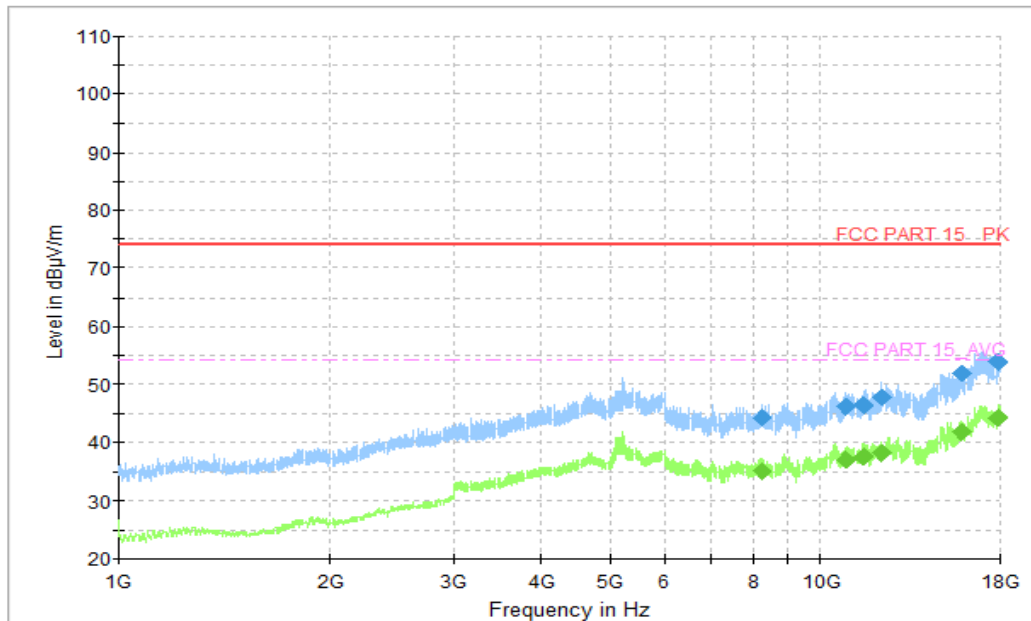


Figure A.1.22. Radiated Emission (Scanner and printer , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8269.384616	44.35	74.00	29.65	V	5.9	38.45
10872.923077	46.23	74.00	27.77	H	9.3	36.93
11544.000000	46.40	74.00	27.60	H	10.0	36.40
12223.384615	47.85	74.00	26.15	V	10.9	36.95
15879.230769	51.86	74.00	22.14	H	14.0	37.86
17900.307692	53.90	74.00	20.10	V	18.8	35.10

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8269.384616	35.25	54.00	18.75	V	5.9	29.35
10872.923077	36.98	54.00	17.02	H	9.3	27.68
11544.000000	37.58	54.00	16.42	H	10.0	27.58
12223.384615	38.18	54.00	15.82	V	10.9	27.28
15879.230769	41.67	54.00	12.33	H	14.0	27.67
17900.307692	44.22	54.00	9.78	V	18.8	25.42

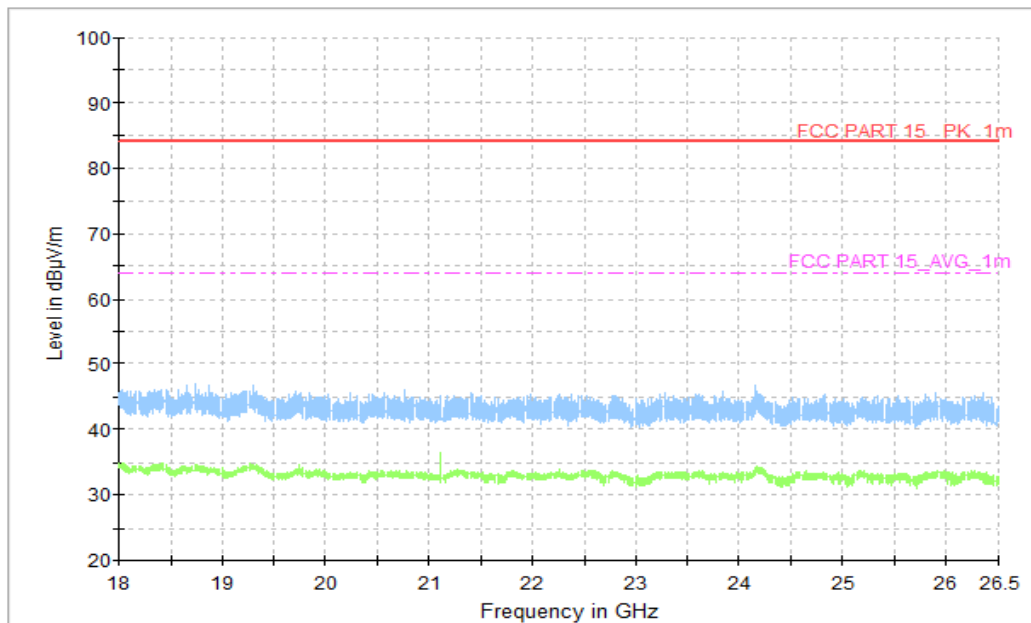


Figure A.1.23. Radiated Emission (Scanner and printer , 18GHz to 26.5GHz)

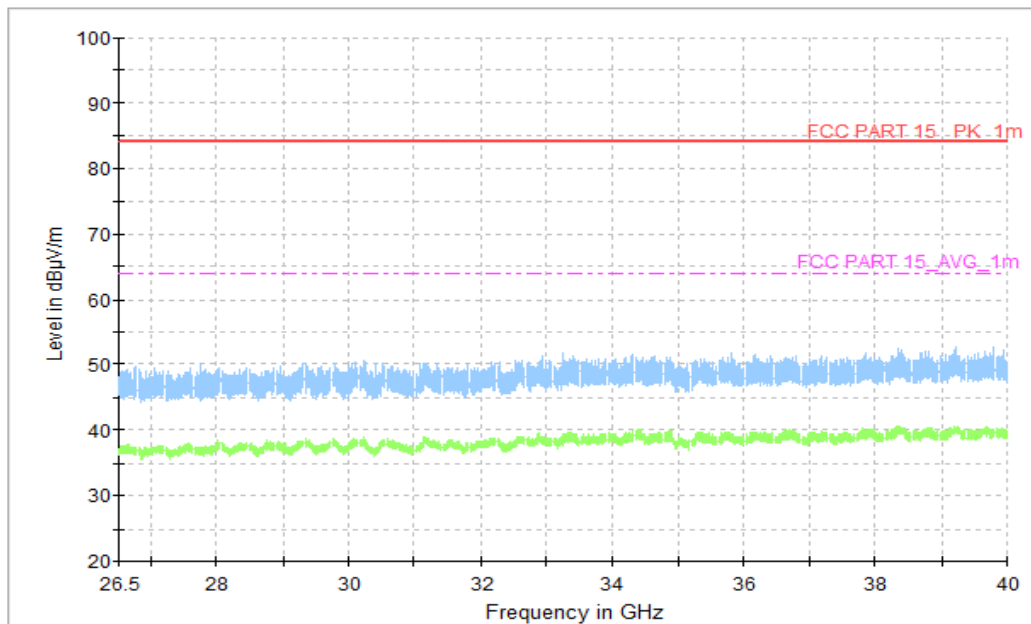


Figure A.1.24. Radiated Emission (Scanner and printer, 26.5GHz to 40GHz)

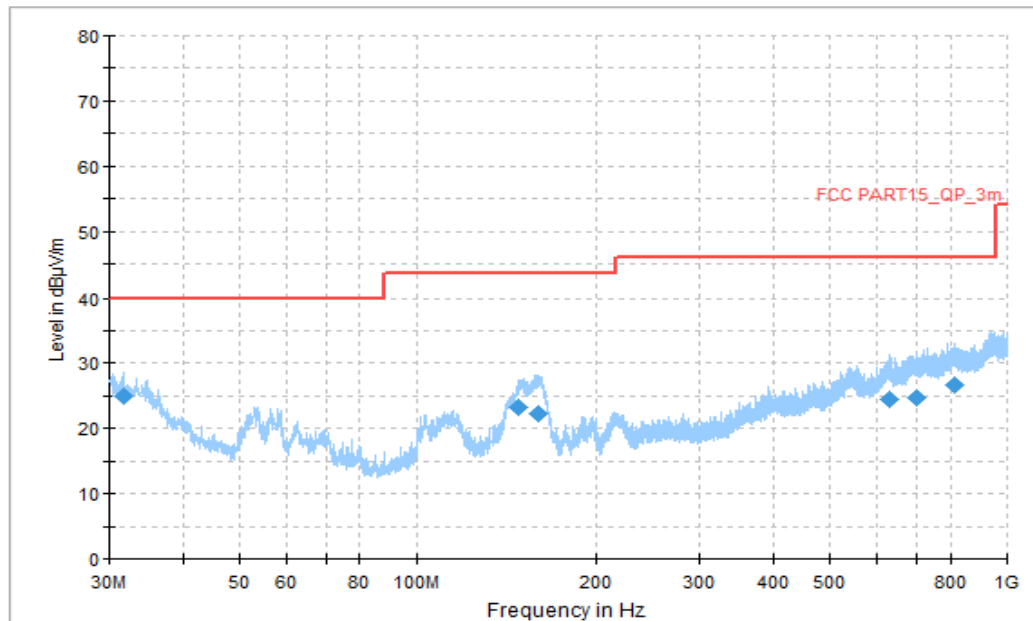


Figure A.1.25. Radiated Emission (GSM receiver 850MHz, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
31.778333	24.99	40.00	15.01	V	-12	36.99
147.962778	23.30	43.52	20.22	V	-18	41.3
159.171667	22.18	43.52	21.34	V	-16	38.18
631.723333	24.39	46.02	21.63	H	-2	26.39
699.461667	24.80	46.02	21.22	H	-1	25.8
815.053333	26.55	46.02	19.47	V	1	25.55

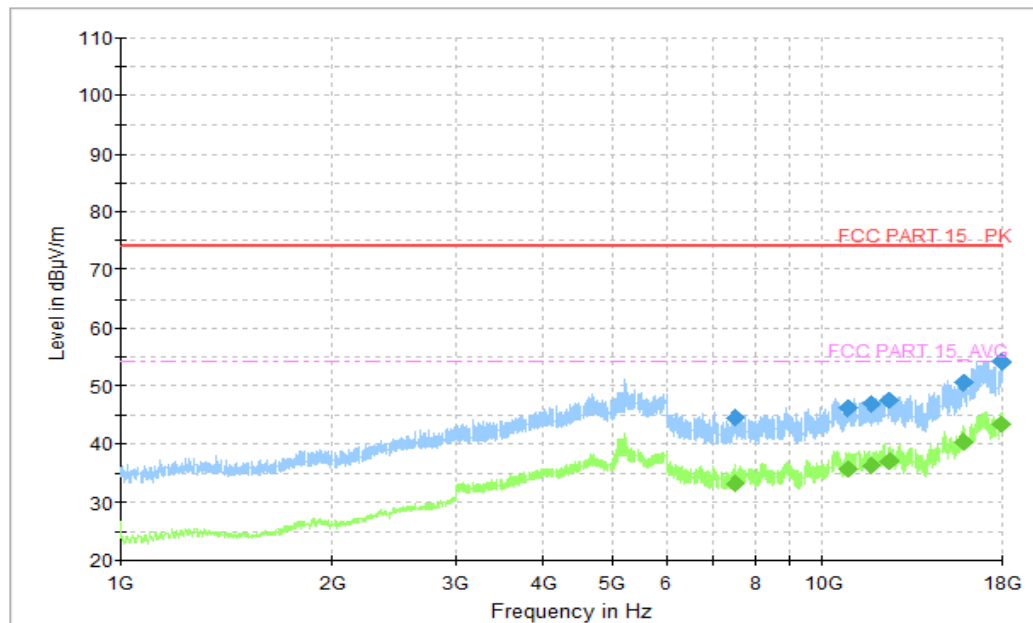


Figure A.1.26. Radiated Emission (GSM receiver 850MHz , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7504.615385	44.83	74.00	29.17	H	5.7	51.30
10848.923077	46.50	74.00	27.50	V	9.2	50.00
11736.461539	47.43	74.00	26.57	V	9.8	48.20
12474.000000	47.66	74.00	26.34	H	11.3	46.90
15910.153846	51.00	74.00	23.00	H	14.1	46.40
17982.923077	54.63	74.00	19.37	H	19.2	43.70

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7504.615385	33.49	54.00	20.51	H	5.7	38.30
10848.923077	35.80	54.00	18.20	V	9.2	37.60
11736.461539	36.46	54.00	17.54	V	9.8	34.90
12474.000000	37.16	54.00	16.84	H	11.3	33.10
15910.153846	40.69	54.00	13.31	H	14.1	32.60
17982.923077	43.50	54.00	10.50	H	19.2	30.90

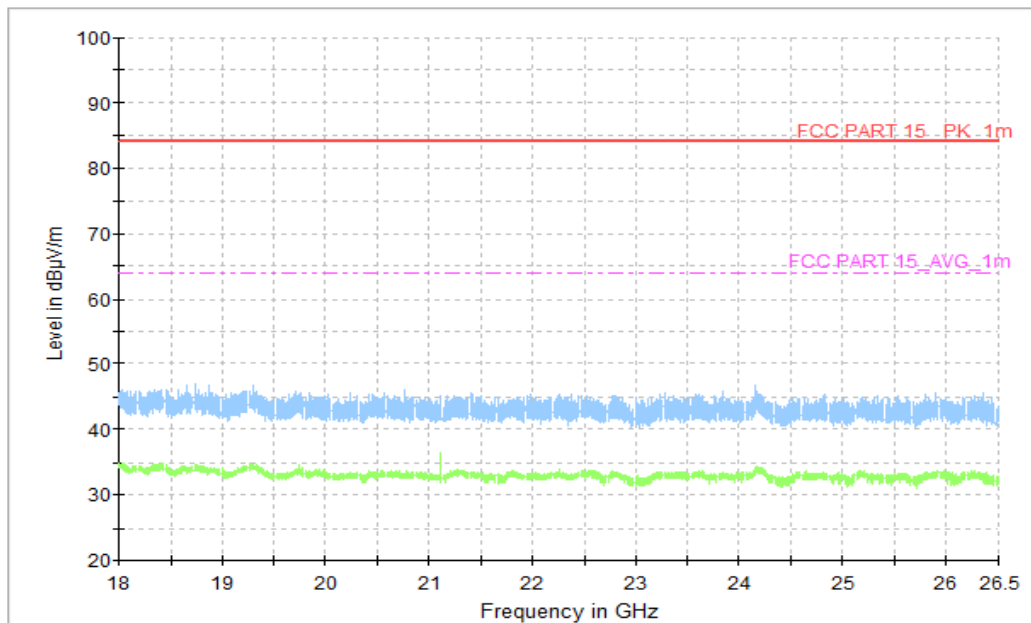


Figure A.1.27. Radiated Emission (GSM receiver 850MHz, 18GHz to 26.5GHz)

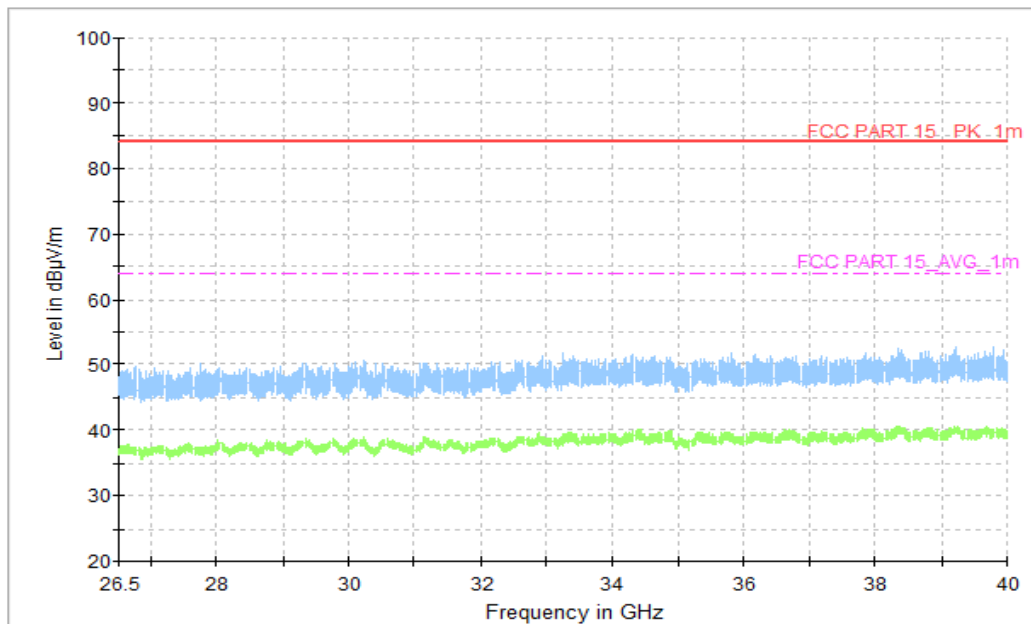


Figure A.1.28. Radiated Emission (GSM receiver 850MHz , 26.5GHz to 40GHz)

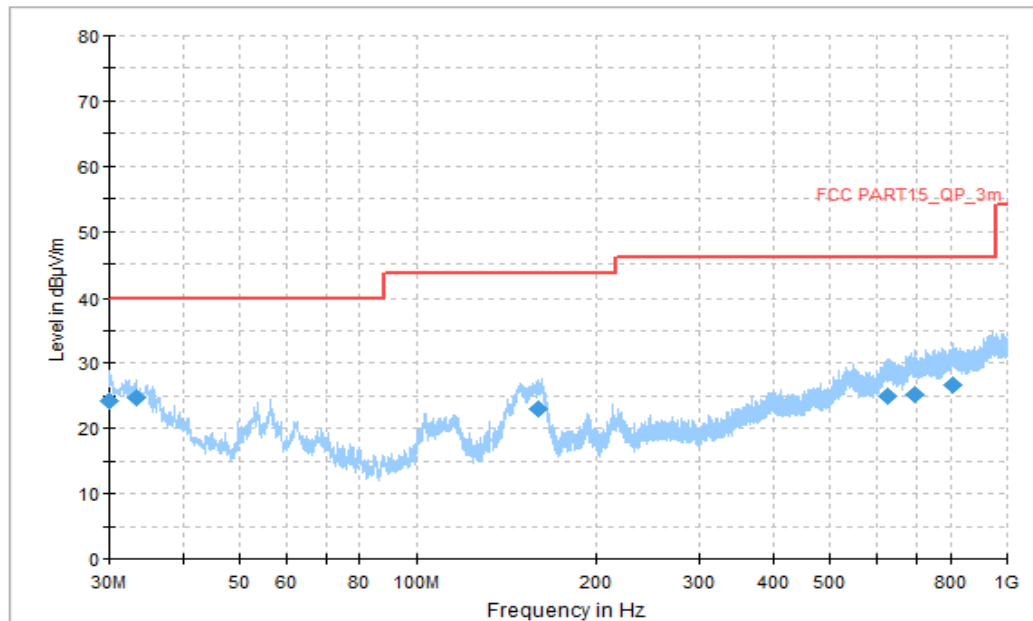


Figure A.1.29. Radiated Emission (WCDMA receiver Band5, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
30.000000	24.17	40.00	15.83	V	-11	35.17
33.341111	24.71	40.00	15.29	V	-13	37.71
159.872222	23.03	43.52	20.49	V	-16	39.03
625.095000	25.01	46.02	21.01	V	-2	27.01
694.611667	25.12	46.02	20.90	V	-1	26.12
806.592778	26.65	46.02	19.37	V	1	25.65

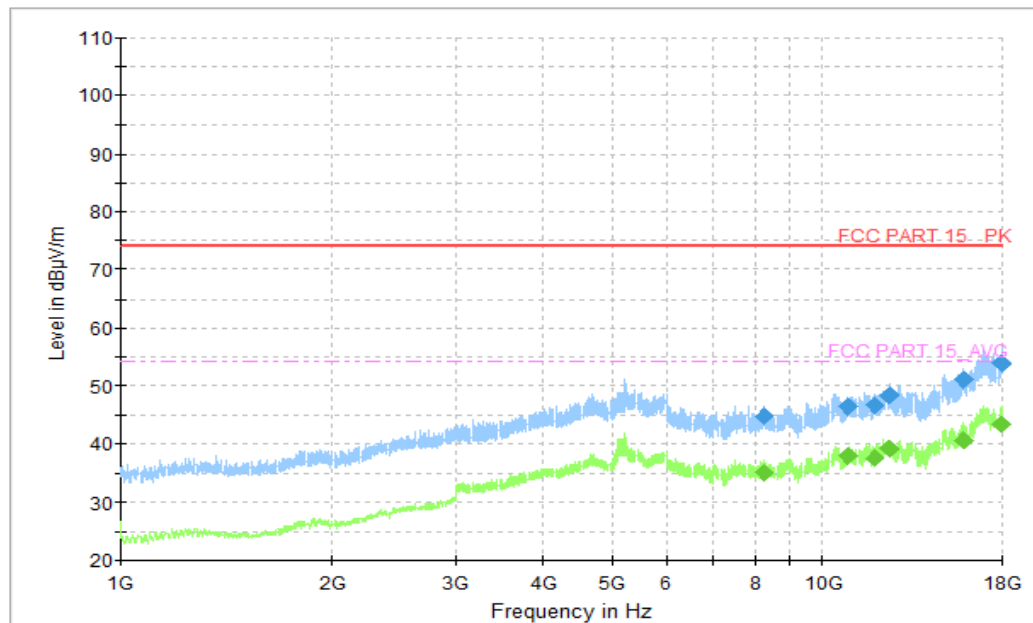


Figure A.1.30. Radiated Emission (WCDMA receiver Band5 , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8262.000000	44.78	74.00	29.34	H	5.9	51.30
10869.230769	46.45	74.00	27.67	H	9.3	50.00
11867.076923	46.45	74.00	27.47	H	10.1	48.20
12460.615385	48.44	74.00	25.68	V	11.4	46.90
15863.076923	51.14	74.00	22.98	V	14.0	46.40
17996.307692	53.98	74.00	20.14	V	19.2	43.70

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8262.000000	35.02	54.00	18.98	H	5.9	38.30
10869.230769	37.75	54.00	16.25	H	9.3	37.60
11867.076923	37.56	54.00	16.44	H	10.1	34.90
12460.615385	39.17	54.00	14.83	V	11.4	33.10
15863.076923	40.65	54.00	13.35	V	14.0	32.60
17996.307692	43.37	54.00	10.63	V	19.2	30.90

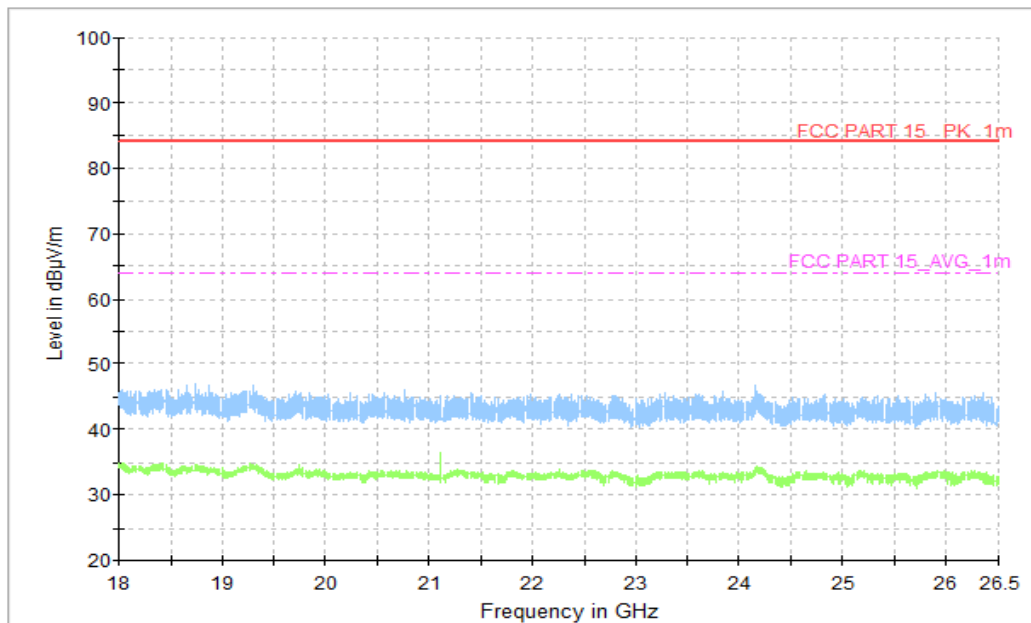


Figure A.1.31. Radiated Emission (WCDMA receiver Band5, 18GHz to 26.5GHz)

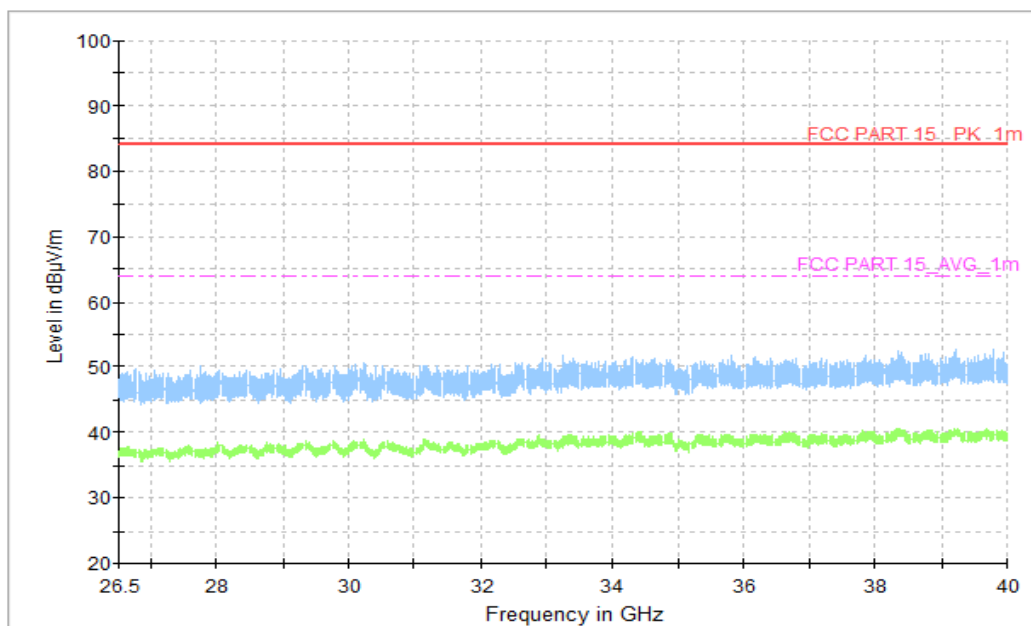


Figure A.1.32. Radiated Emission (WCDMA receiver Band5, 26.5GHz to 40GHz)

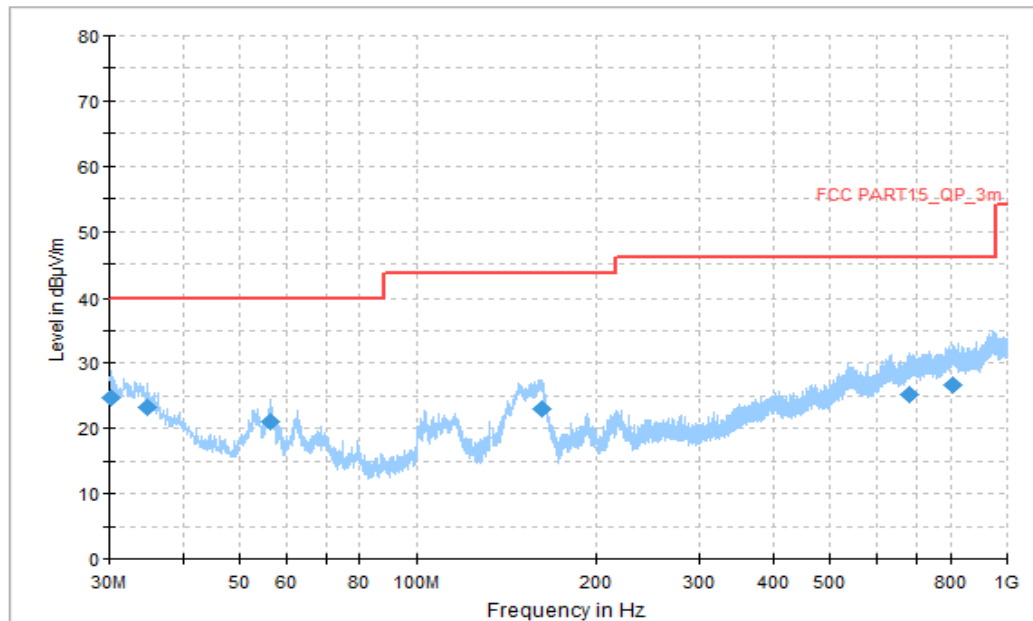


Figure A.1.33. Radiated Emission (LTE receiver Band 5, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
30.161667	24.76	40.00	15.24	V	-12	36.76
34.796111	23.18	40.00	16.82	V	-14	37.18
56.243889	20.98	40.00	19.02	V	-21	41.98
161.435000	22.92	43.52	20.60	V	-17	39.92
682.863889	25.08	46.02	20.94	H	-1	26.08
809.772222	26.67	46.02	19.35	V	1	25.67

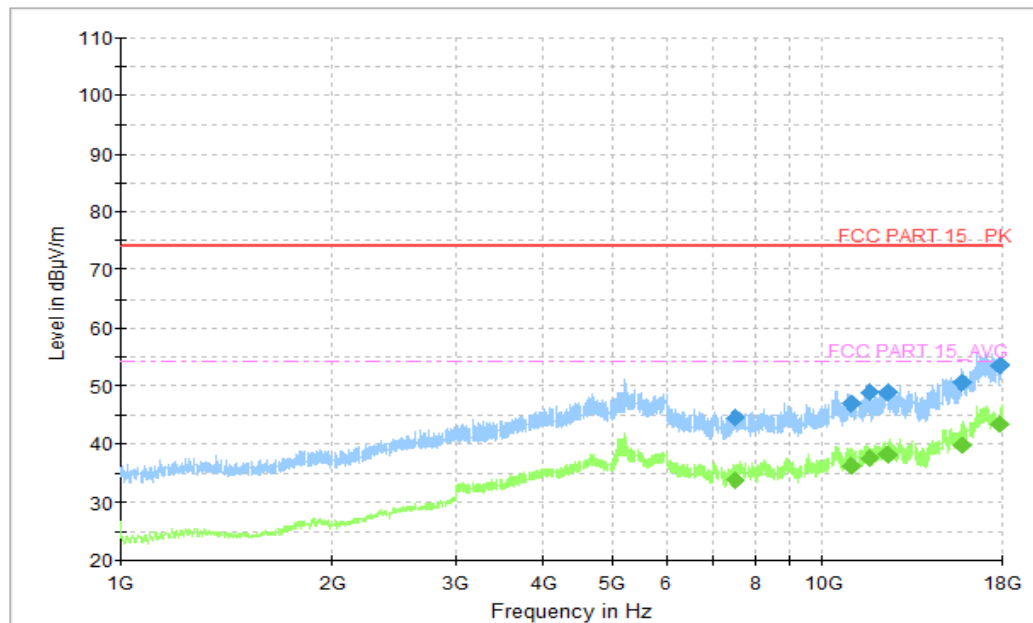


Figure A.1.34. Radiated Emission (LTE receiver Band 5, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7506.923077	44.49	74.00	29.71	H	5.7	38.79
10965.230769	46.86	74.00	27.24	V	9.6	37.26
11646.000000	48.98	74.00	25.22	H	9.9	39.08
12394.153846	48.96	74.00	25.24	H	11.3	37.66
15807.692308	50.67	74.00	23.53	H	14.0	36.67
17906.307692	53.45	74.00	20.75	V	18.8	34.65

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7506.923077	33.75	54.00	20.45	H	5.7	28.05
10965.230769	36.27	54.00	17.93	V	9.6	26.67
11646.000000	37.49	54.00	16.71	H	9.9	27.59
12394.153846	38.05	54.00	16.15	H	11.3	26.75
15807.692308	39.89	54.00	14.31	H	14.0	25.89
17906.307692	43.47	54.00	10.73	V	18.8	24.67

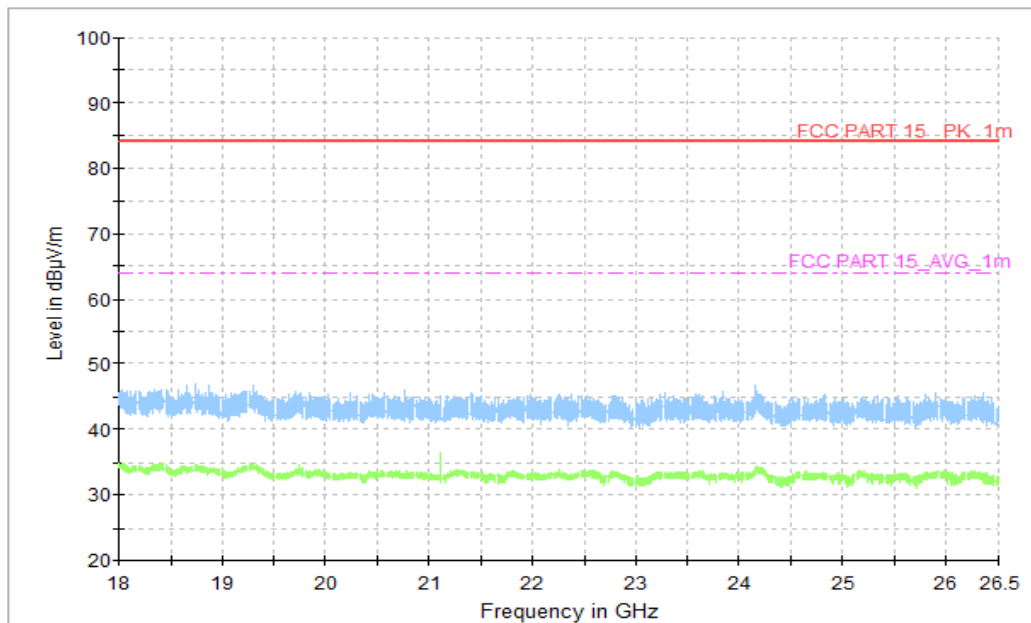


Figure A.1.35. Radiated Emission ((LTE receiver Band 5 , 18GHz to 26.5GHz)

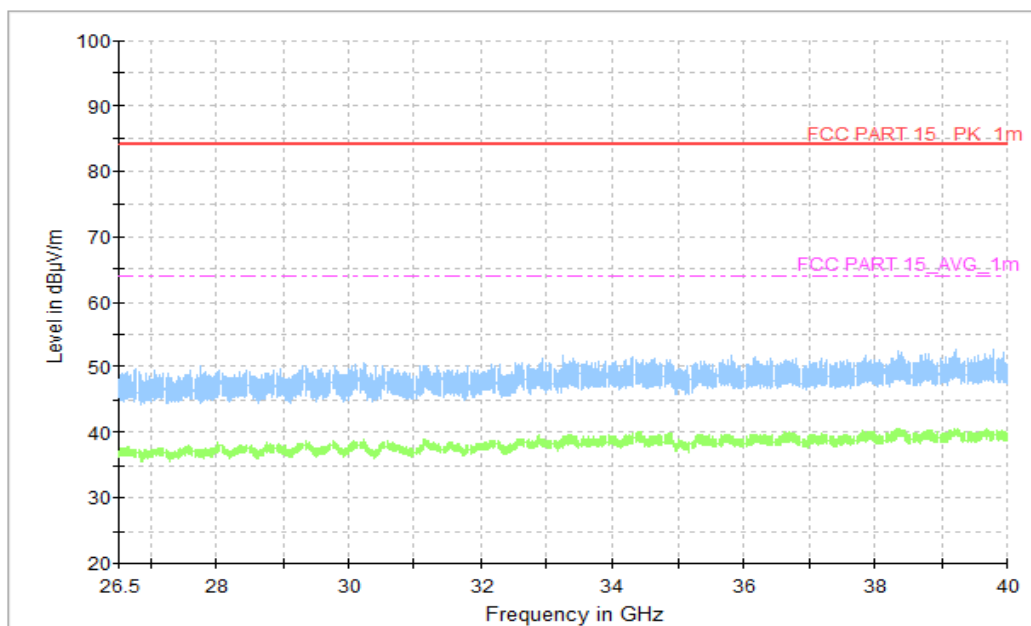


Figure A.1.36. Radiated Emission ((LTE receiver Band 5 , 26.5GHz to 40GHz)

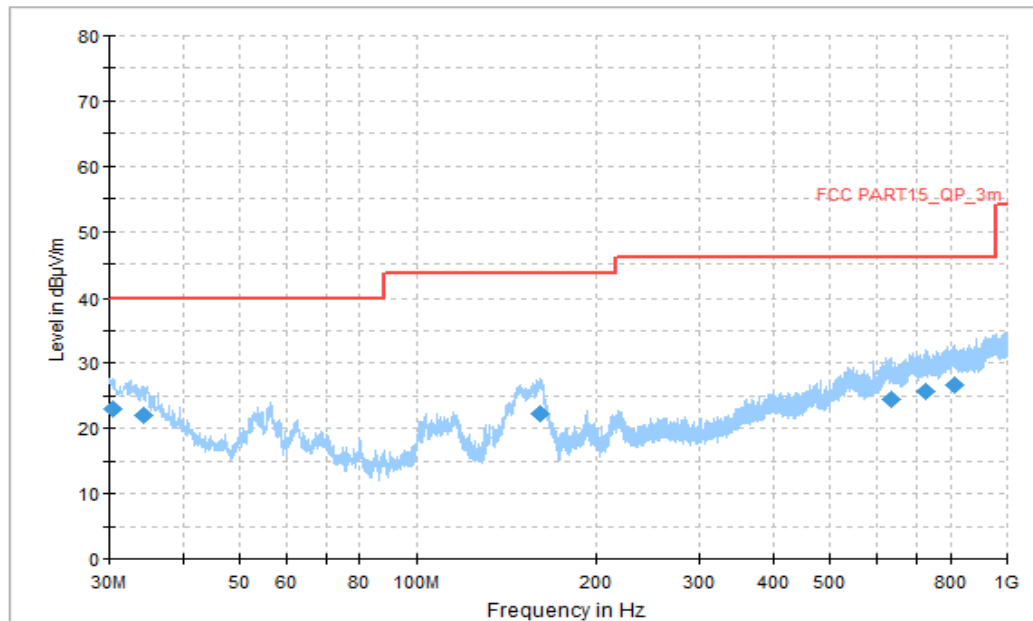


Figure A.1.37. Radiated Emission (LTE receiver Band 12, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
30.431111	23.08	40.00	16.92	V	-12	35.08
34.365000	22.09	40.00	17.91	V	-14	36.09
161.003889	22.23	43.52	21.29	V	-17	39.23
634.795000	24.39	46.02	21.63	H	-2	26.39
727.430000	25.58	46.02	20.44	V	-1	26.58
812.682222	26.67	46.02	19.35	V	1	25.67

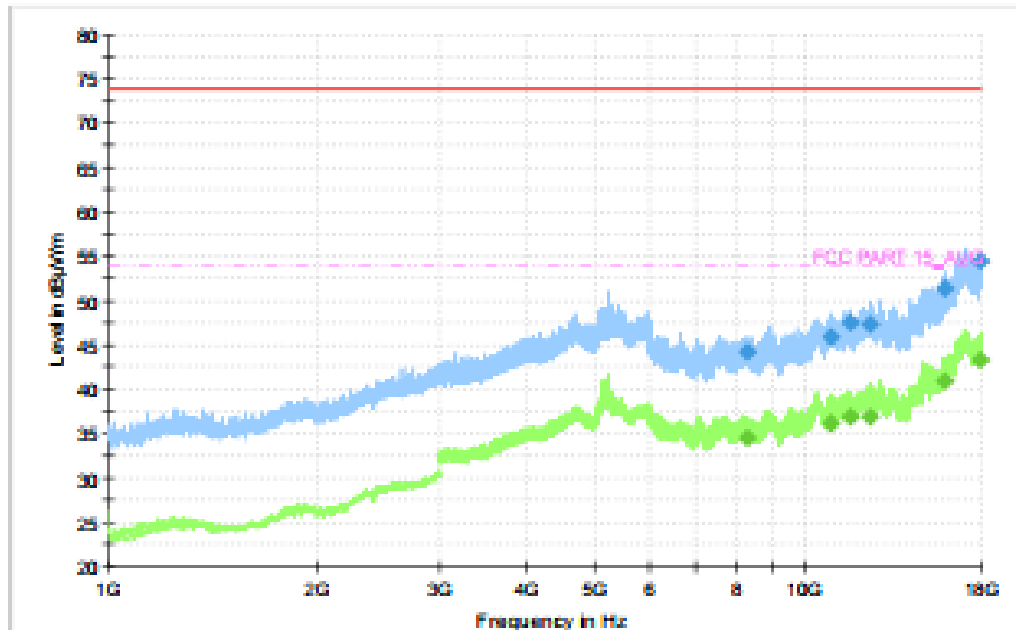


Figure A.1.38. Radiated Emission (LTE receiver Band 12, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8277.230769	44.26	74.00	29.74	V	6.0	38.26
10913.538462	45.85	74.00	28.15	V	9.4	36.45
11629.846154	47.58	74.00	26.42	H	9.9	37.68
12463.846154	47.33	74.00	26.67	H	11.4	35.93
15892.615385	51.42	74.00	22.58	V	14.0	37.42
17953.384615	54.43	74.00	19.57	H	19.0	35.43

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8277.230769	34.58	54.00	19.42	V	6.0	28.58
10913.538462	36.10	54.00	17.90	V	9.4	26.7
11629.846154	36.86	54.00	17.14	H	9.9	26.96
12463.846154	36.94	54.00	17.06	H	11.4	25.54
15892.615385	40.92	54.00	13.08	V	14.0	26.92
17953.384615	43.35	54.00	10.65	H	19.0	24.35

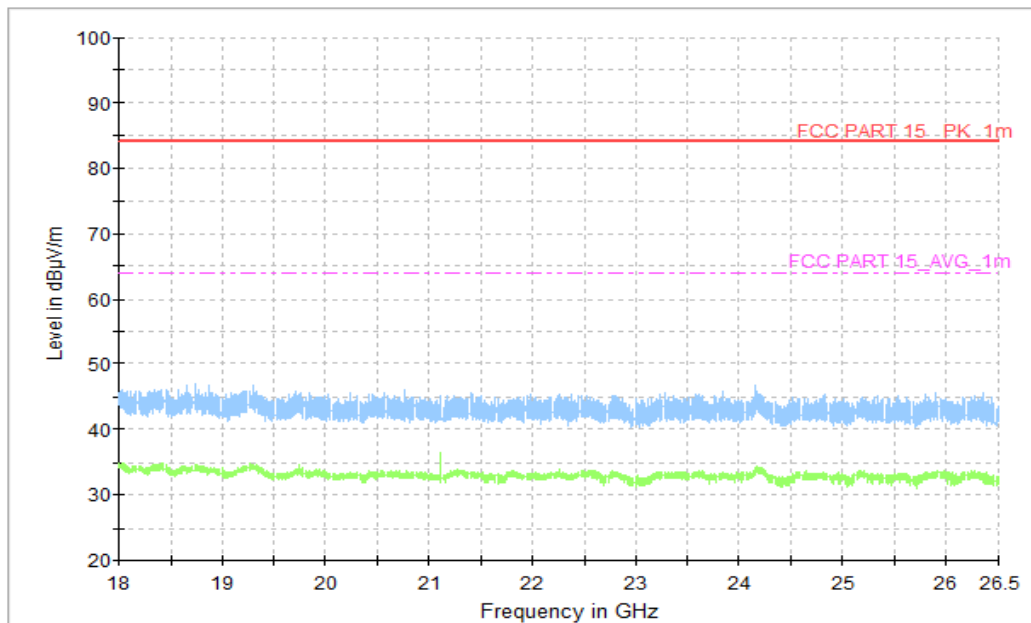


Figure A.1.39. Radiated Emission ((LTE receiver Band 12 , 18GHz to 26.5GHz)

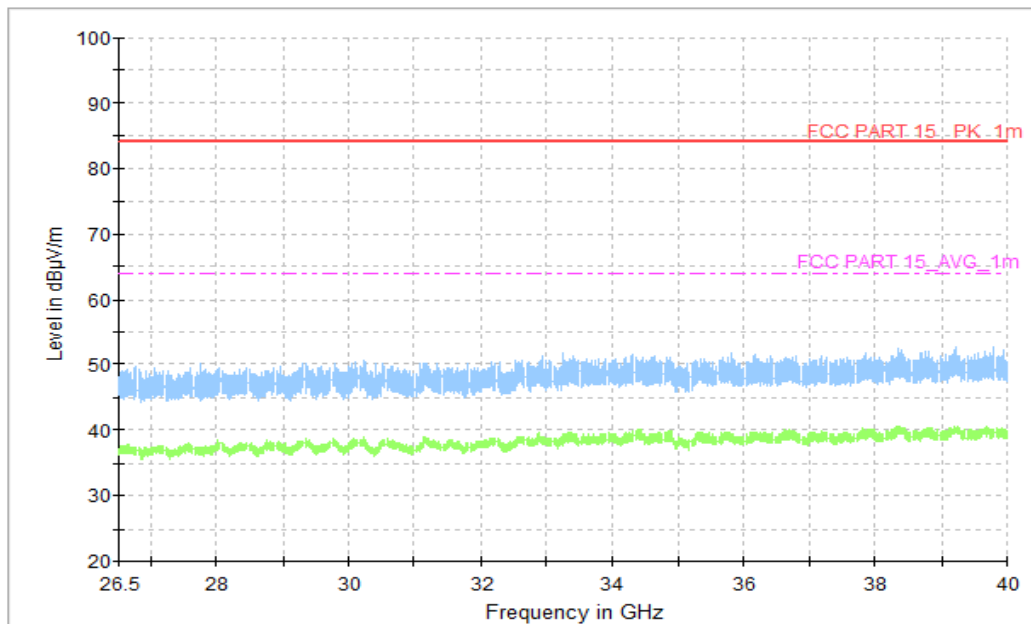


Figure A.1.40. Radiated Emission ((LTE receiver Band 12 , 26.5GHz to 40GHz)

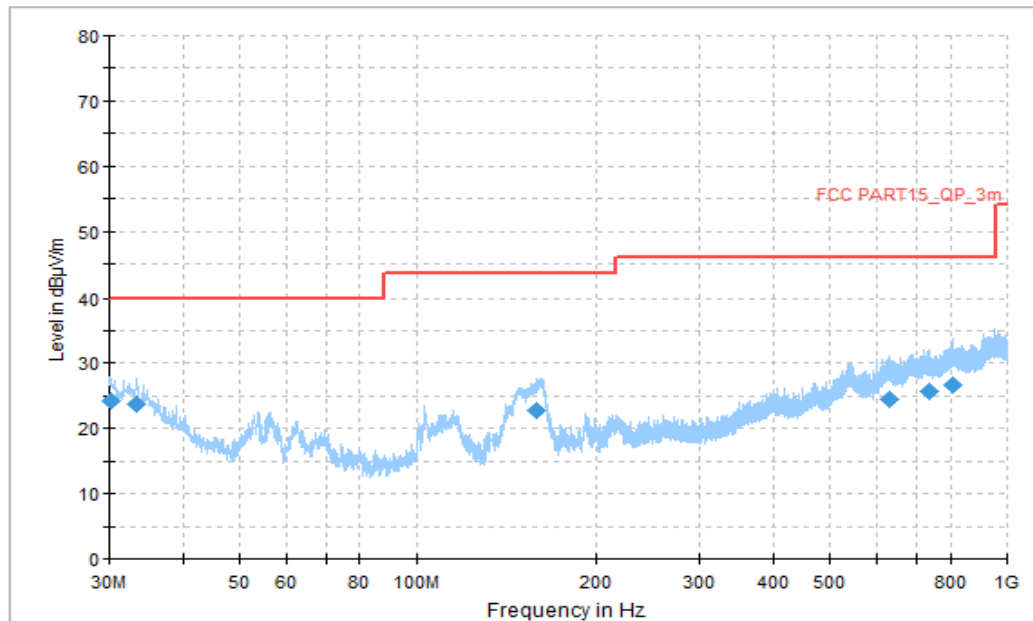


Figure A.1.41. Radiated Emission (LTE receiver Band 13, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
30.161667	24.17	40.00	15.83	V	-12	36.17
33.341111	23.66	40.00	16.34	V	-13	36.66
158.632778	22.81	43.52	20.71	V	-16	38.81
631.992778	24.37	46.02	21.65	V	-2	26.37
735.243889	25.65	46.02	20.37	H	-1	26.65
808.209444	26.73	46.02	19.29	H	1	25.73

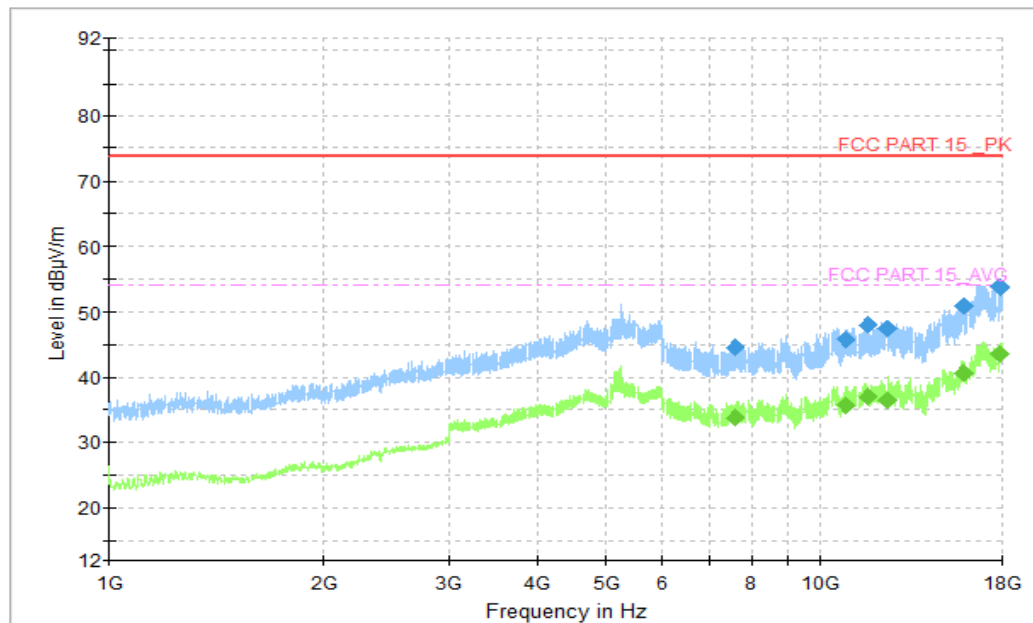


Figure A.1.42. Radiated Emission (LTE receiver Band 13, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7599.230769	44.51	74.00	29.61	H	5.7	38.81
10845.230769	45.66	74.00	28.46	H	9.2	36.46
11638.153846	48.03	74.00	26.09	V	9.9	38.13
12416.769231	47.41	74.00	26.71	V	11.4	36.01
15903.230769	50.80	74.00	23.32	H	14.1	36.7
17913.692308	53.74	74.00	20.38	H	18.9	34.84

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7599.230769	33.67	54.00	20.46	H	5.7	27.97
10845.230769	35.69	54.00	18.43	H	9.2	26.49
11638.153846	36.99	54.00	17.13	V	9.9	27.09
12416.769231	36.53	54.00	17.59	V	11.4	25.13
15903.230769	40.53	54.00	13.59	H	14.1	26.43
17913.692308	43.53	54.00	10.59	H	18.9	24.63

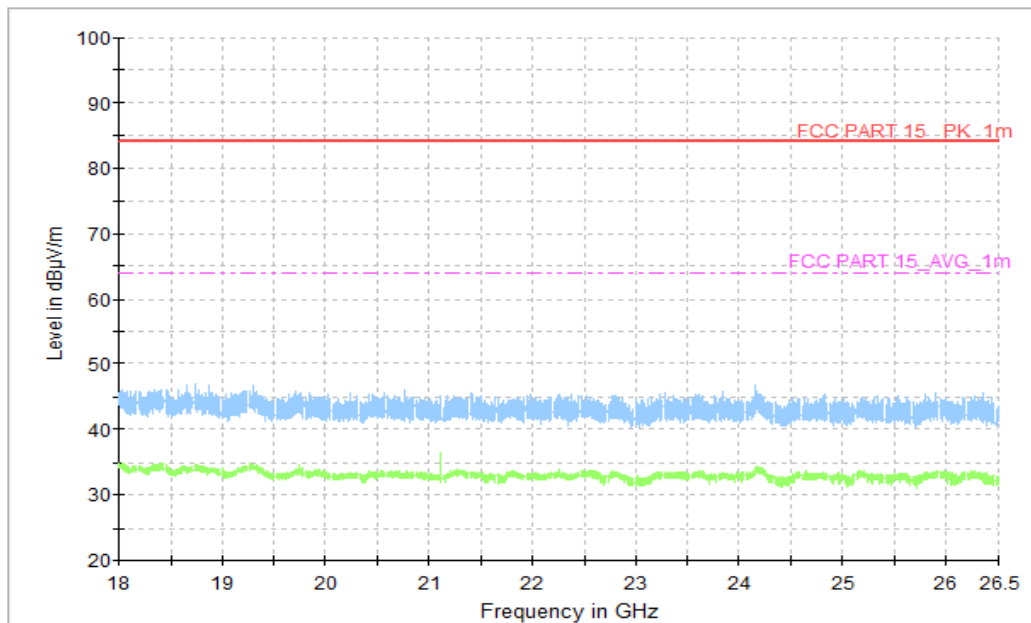


Figure A.1.43. Radiated Emission ((LTE receiver Band 13, 18GHz to 26.5GHz)

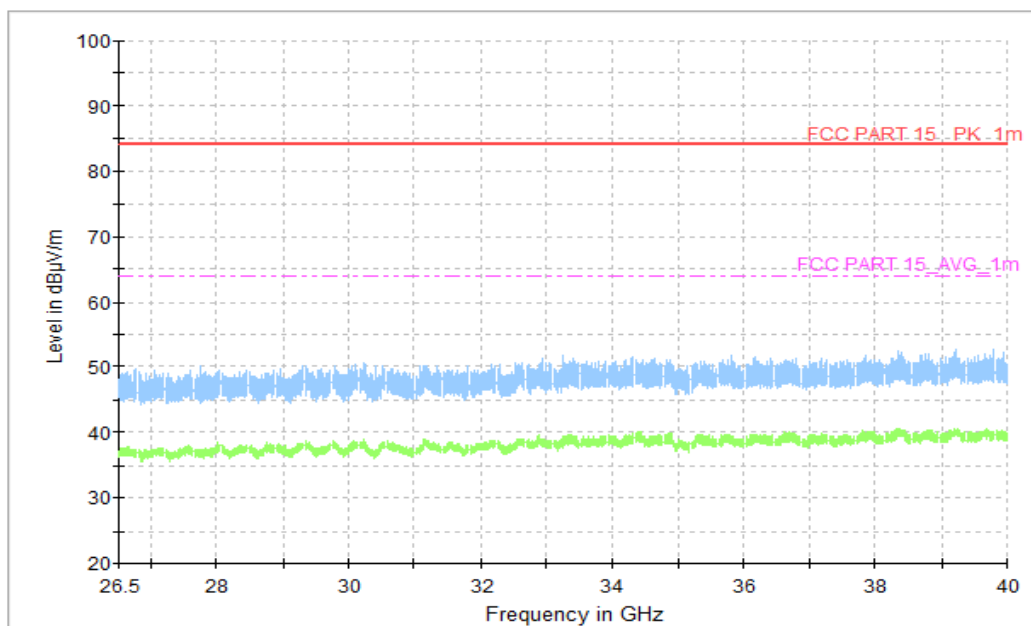


Figure A.1.44. Radiated Emission ((LTE receiver Band 13, 26.5GHz to 40GHz)

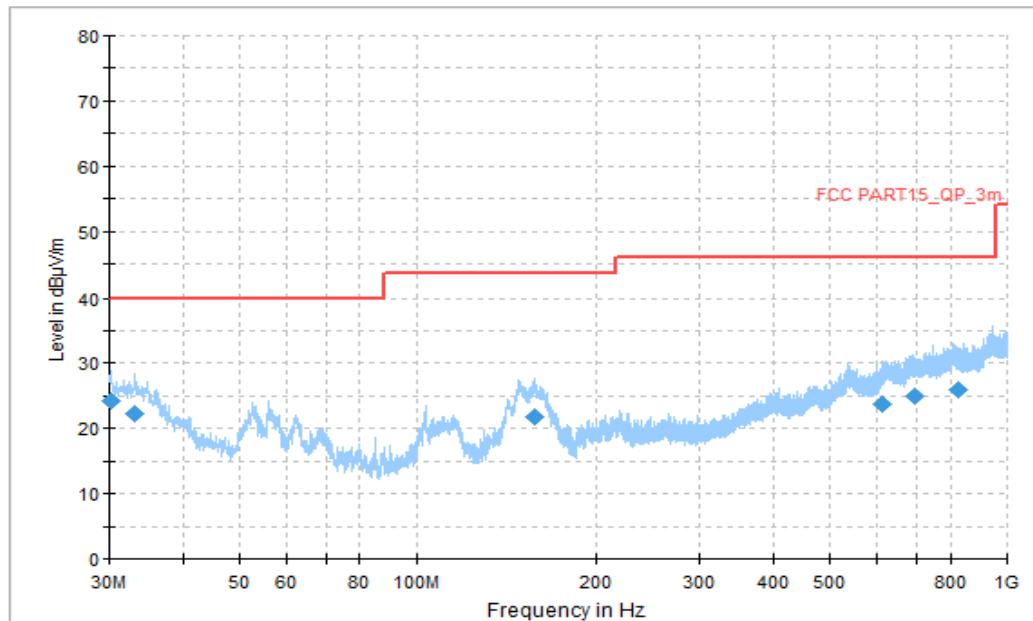


Figure A.1.45. Radiated Emission (LTE receiver Band 14, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
30.161667	24.23	40.00	15.77	V	-12	36.23
33.233333	22.19	40.00	17.81	V	-13	35.19
157.177778	21.73	43.52	21.79	V	-16	37.73
614.478889	23.76	46.02	22.26	H	-2	25.76
697.737222	24.84	46.02	21.18	V	-1	25.84
826.262222	26.00	46.02	20.02	H	0	26.00

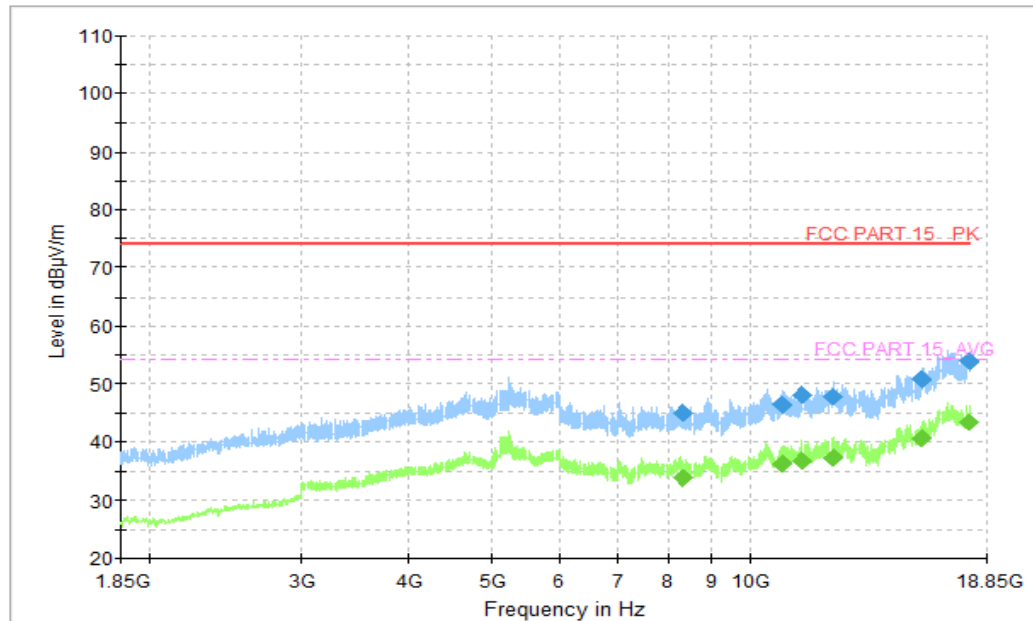


Figure A.1.46. Radiated Emission (LTE receiver Band 14, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8348.307692	45.08	74.00	28.92	H	6.0	39.08
10902.923077	46.33	74.00	27.67	H	9.4	36.93
11498.769231	48.11	74.00	25.89	H	10.1	38.01
12459.692308	47.93	74.00	26.07	V	11.4	36.53
15860.769231	50.85	74.00	23.15	H	14.0	36.85
17953.384615	53.74	74.00	20.26	H	19.0	34.74

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8348.307692	33.68	54.00	20.32	H	6.0	27.68
10902.923077	36.18	54.00	17.82	H	9.4	26.78
11498.769231	36.78	54.00	17.22	H	10.1	26.68
12459.692308	37.18	54.00	16.82	V	11.4	25.78
15860.769231	40.43	54.00	13.57	H	14.0	26.43
17953.384615	43.25	54.00	10.75	H	19.0	24.25

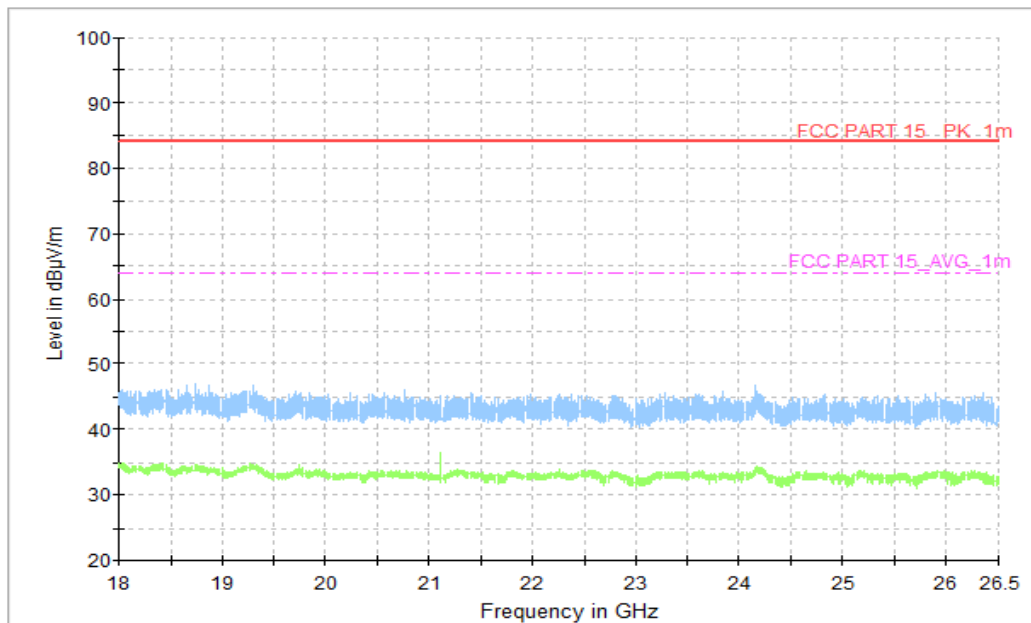


Figure A.1.47. Radiated Emission (LTE receiver Band 14, 18GHz to 26.5GHz)

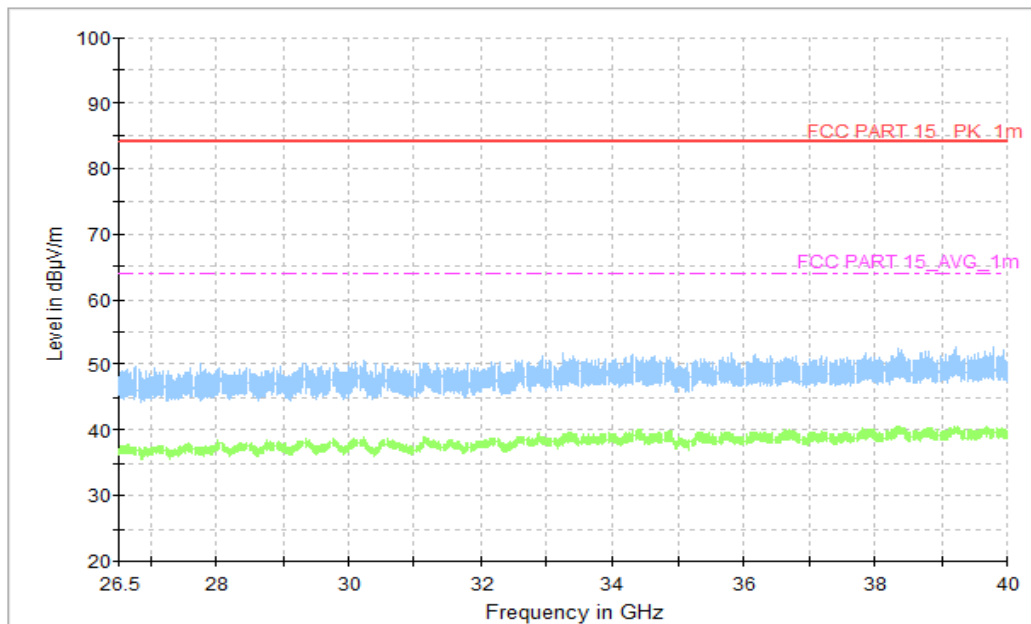


Figure A.1.48. Radiated Emission (LTE receiver Band 14, 26.5GHz to 40GHz)

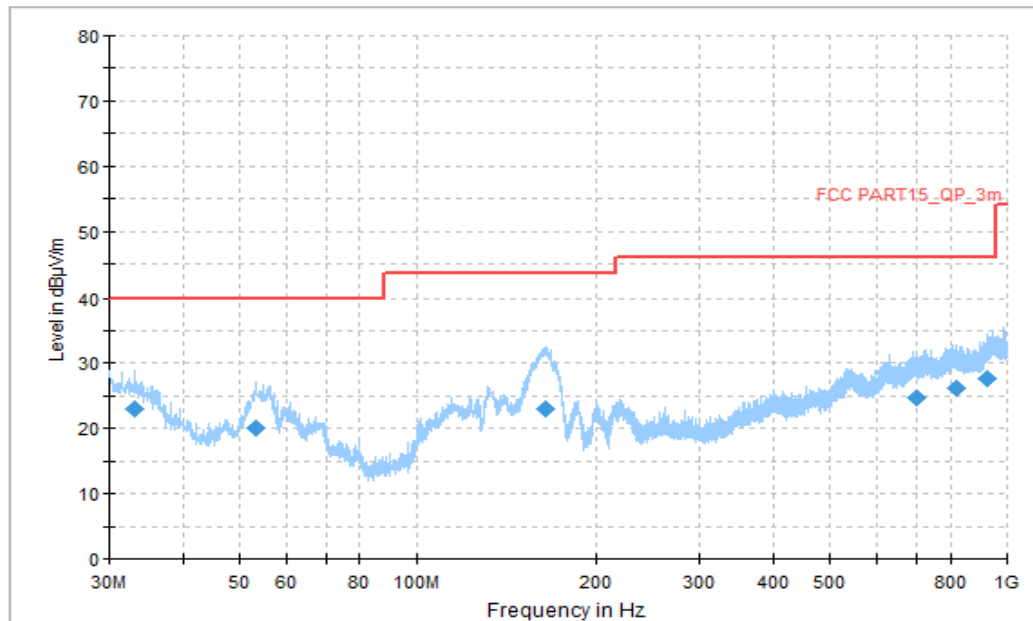


Figure A.1.49. Radiated Emission (LTE receiver Band 71, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
33.179444	23.00	40.00	17.00	V	-13	36.00
53.226111	20.08	40.00	19.92	V	-21	41.08
164.722222	22.98	43.52	20.54	V	-17	39.98
702.964444	24.63	46.02	21.39	V	-1	25.63
820.118889	26.28	46.02	19.74	H	1	25.28
926.926667	27.75	46.02	18.27	V	2	25.75

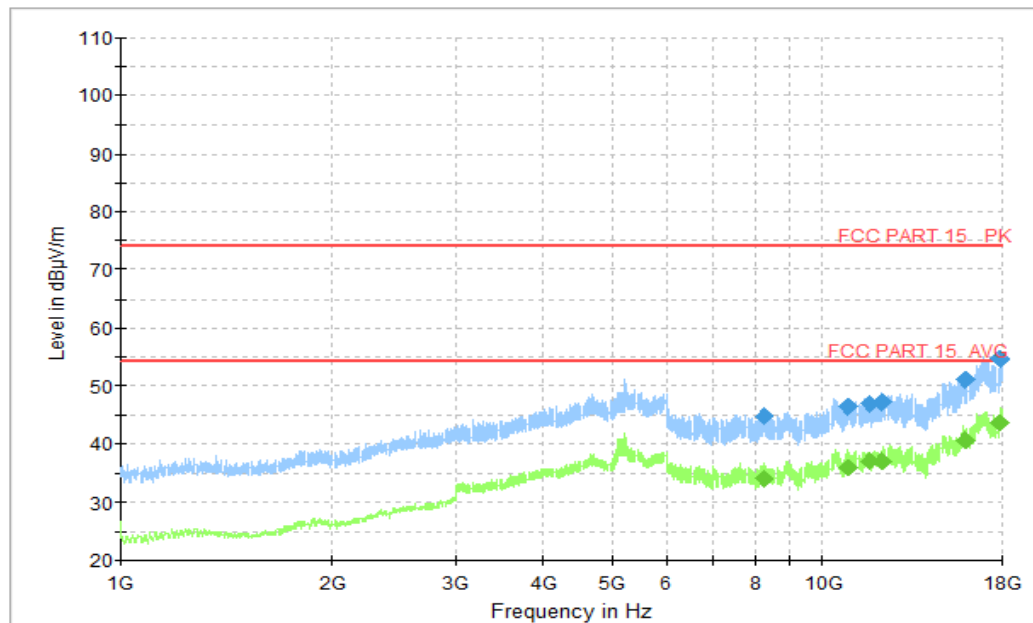


Figure A.1.50. Radiated Emission (LTE receiver Band 71, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8238.461539	44.76	74.00	29.36	V	5.9	38.86
10871.076923	46.44	74.00	27.68	V	9.3	37.14
11638.153846	47.08	74.00	27.04	H	9.9	37.18
12171.692308	47.26	74.00	26.86	V	10.7	36.56
15953.076923	51.05	74.00	23.07	V	14.1	36.95
17914.615385	54.70	74.00	19.42	V	18.9	35.80

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8238.461539	33.94	54.00	20.06	V	5.9	28.04
10871.076923	35.72	54.00	18.28	V	9.3	26.42
11638.153846	36.92	54.00	17.08	H	9.9	27.02
12171.692308	36.81	54.00	17.19	V	10.7	26.11
15953.076923	40.53	54.00	13.47	V	14.1	26.43
17914.615385	43.59	54.00	10.41	V	18.9	24.69

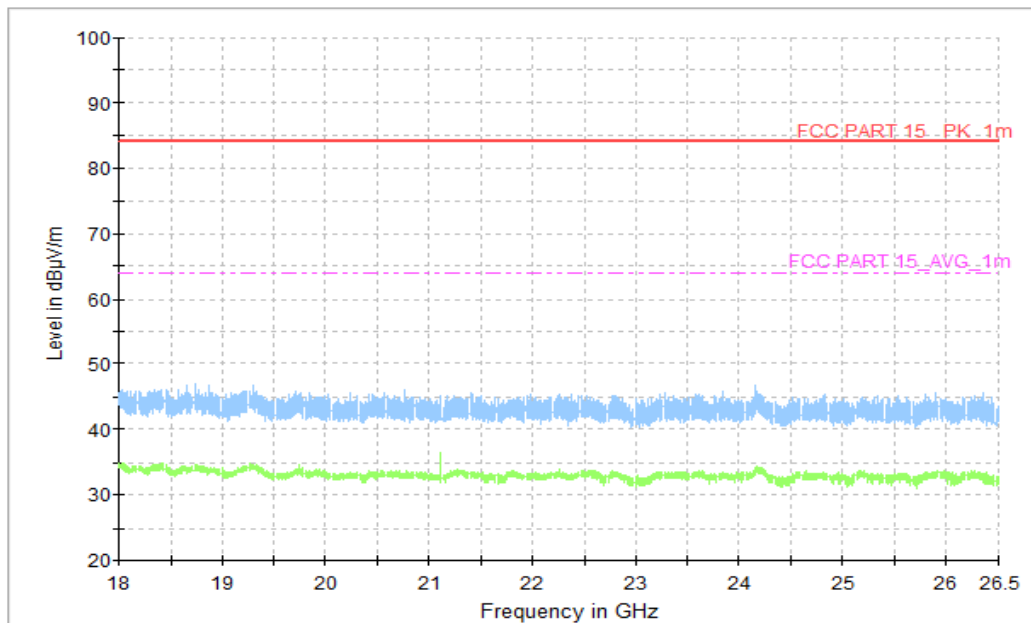


Figure A.1.51. Radiated Emission (LTE receiver Band 71, 18GHz to 26.5GHz)

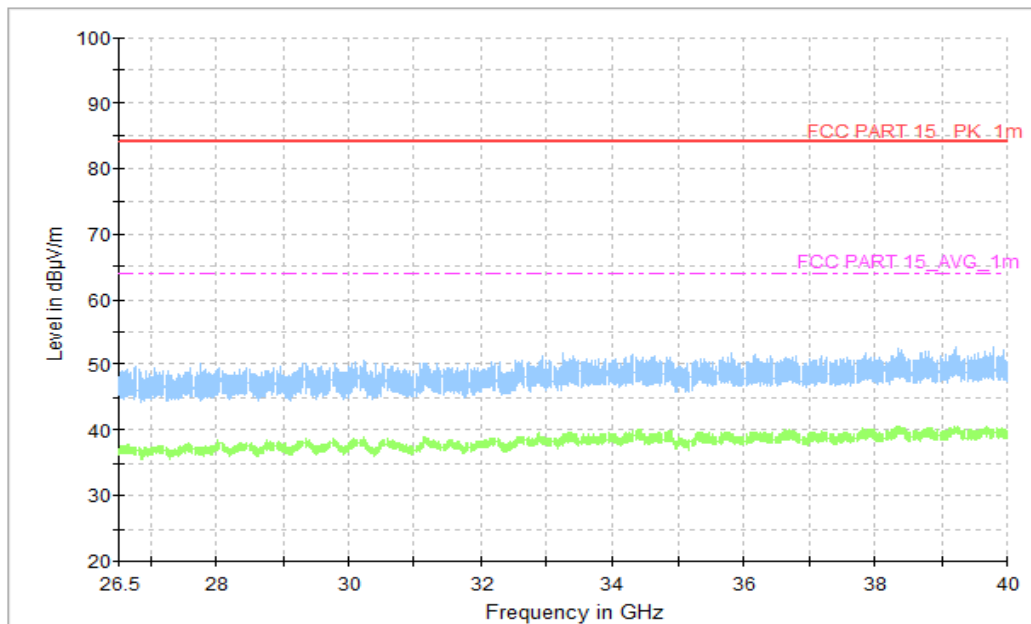


Figure A.1.52. Radiated Emission (LTE receiver Band 71, 26.5GHz to 40GHz)

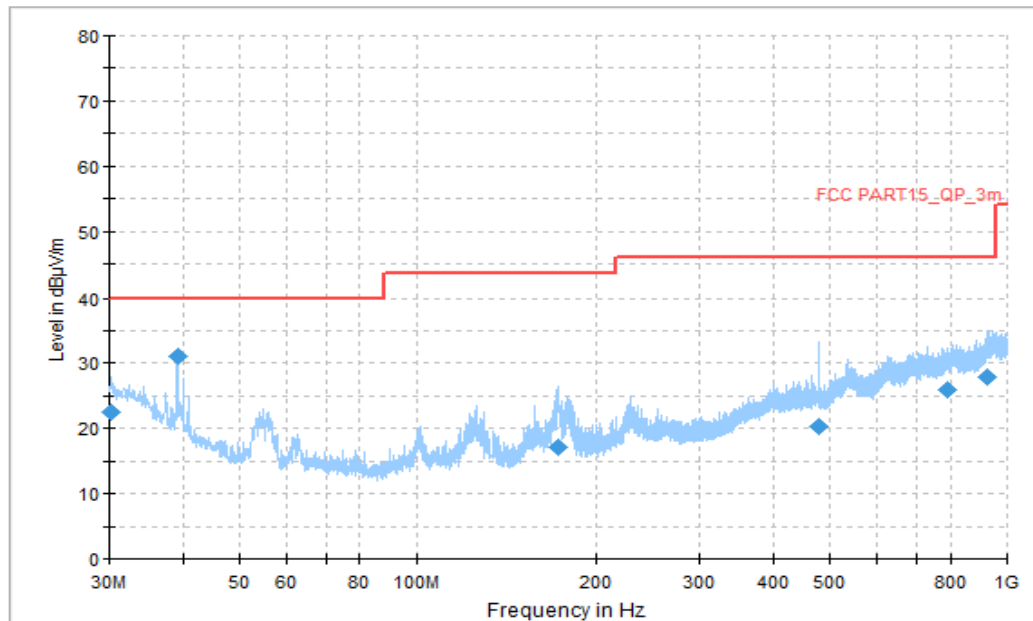


Figure A.1.53. Radiated Emission (Data Transfer, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
30.269444	22.51	40.00	17.49	H	-12	34.51
39.161111	30.96	40.00	9.04	H	-17	47.96
172.051111	17.08	43.52	26.44	V	-17	34.08
479.972222	20.37	46.02	25.65	H	-6	26.37
791.988889	26.01	46.02	20.01	H	0	26.01
924.340000	27.77	46.02	18.25	H	2	25.77

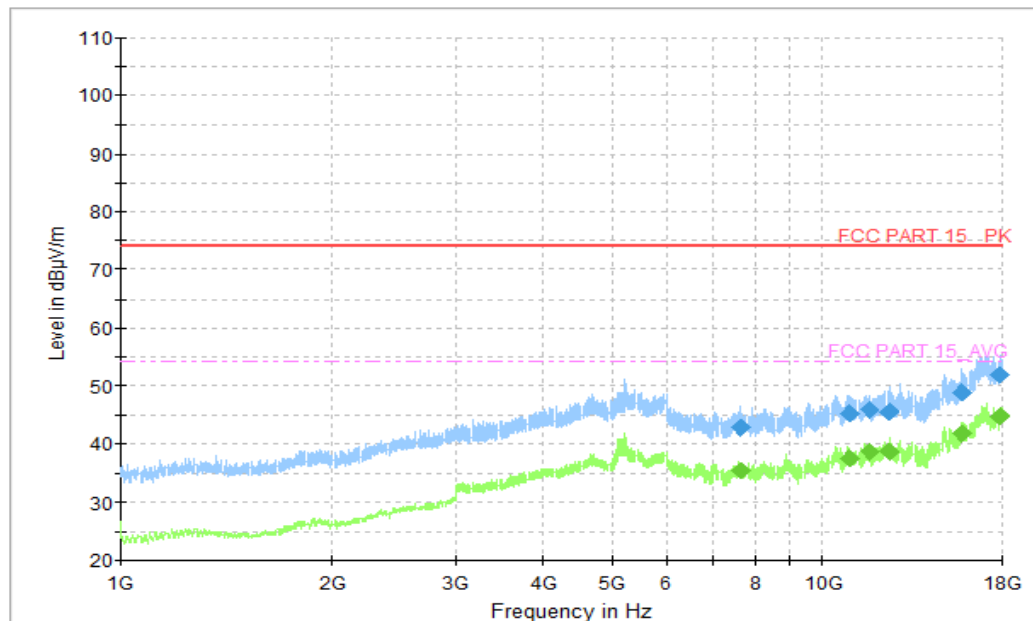


Figure A.1.54. Radiated Emission (Data Transfer, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7630.230769	42.78	74.00	31.22	V	5.7	37.08
10892.846150	45.27	74.00	28.73	H	9.4	35.87
11640.076920	46.00	74.00	28.00	V	9.9	36.10
12425.153850	45.71	74.00	28.29	V	11.4	34.31
15770.846150	48.83	74.00	25.17	H	14.0	34.83
17881.000000	51.94	74.00	22.06	V	18.8	33.14

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7630.230769	35.37	54.00	18.63	V	5.7	29.67
10892.846150	37.75	54.00	16.25	H	9.4	28.35
11640.076920	38.69	54.00	15.31	V	9.9	28.79
12425.153850	38.68	54.00	15.32	V	11.4	27.28
15770.846150	41.77	54.00	12.23	H	14.0	27.77
17881.000000	44.78	54.00	9.22	V	18.8	25.98

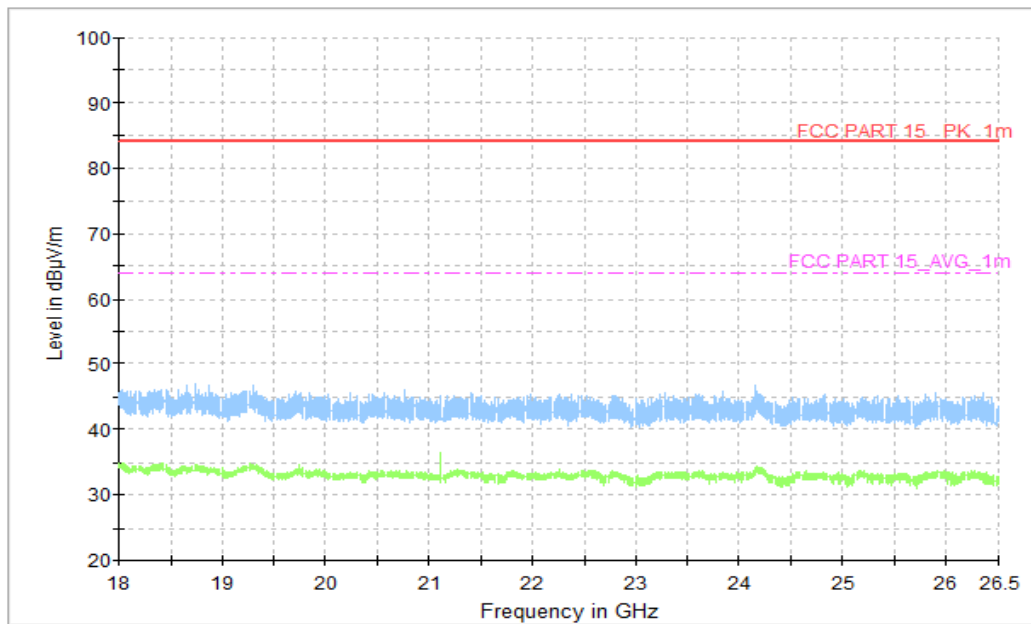


Figure A.1.55. Radiated Emission (Data Transfer, 18GHz to 26.5GHz)

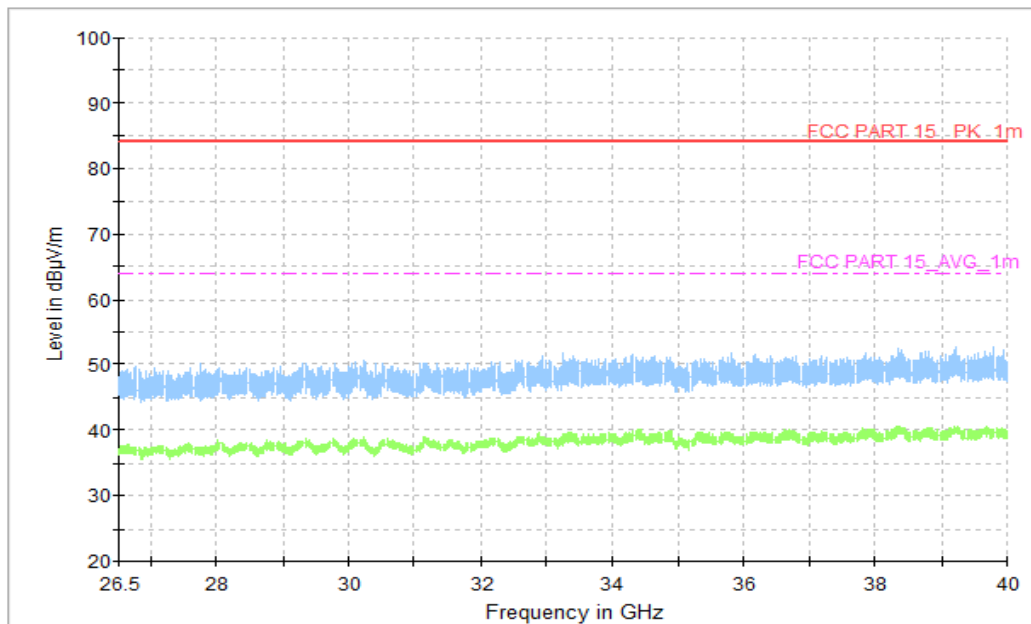


Figure A.1.56. Radiated Emission (Data Transfer, 26.5GHz to 40GHz)

A.2 Conducted Emission (§15.107(a))**Reference**

FCC: Part 15.107(a)

A.2.1 Method of measurement

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 -2014, section 7.3.

A.2.2 EUT Operating Mode:

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

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

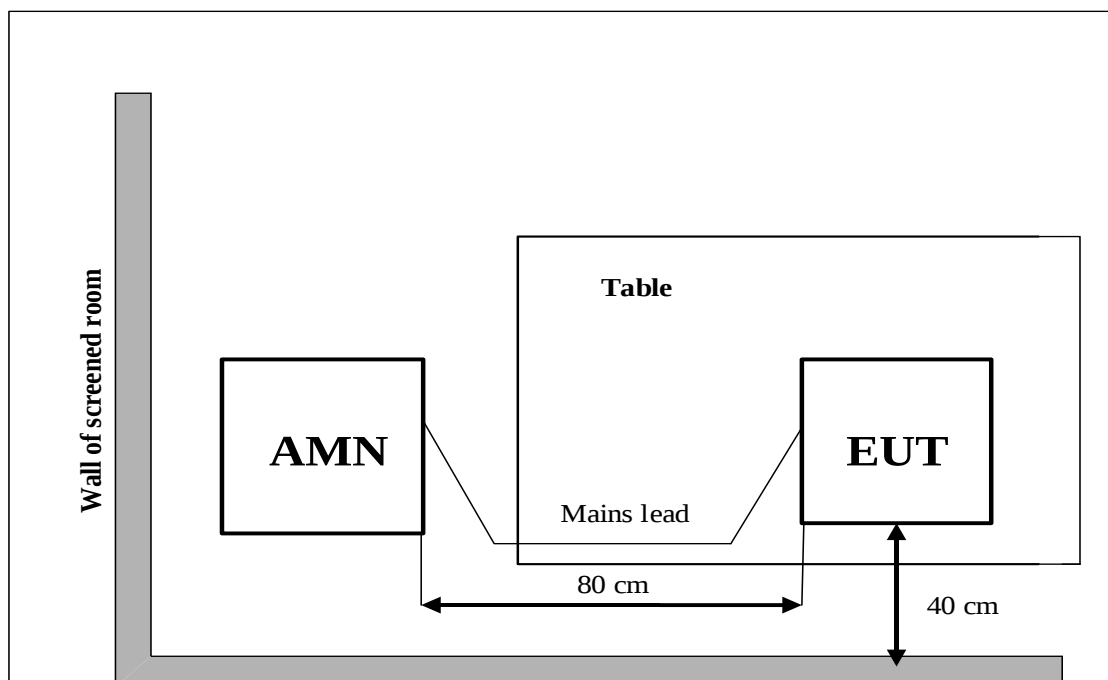
Scanner and printer: The EUT is connected to a charger for charging and keeping on Scanning and printing.

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 USB flash disk reading and erasing the data after copy action was finished.

A.2.3 Measurement Limit

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency		

A.2.4 Test set-up:



A.2.5 Test Condition in charging mode

Voltage (V)	Frequency (Hz)
120	60
240	60

RBW	Sweep Time(s)
9kHz	1

A.2.6 Measurement Results

QuasiPeak(dBμV) /Average(dBμV) =PMea+Corr

Where

Corr: PathLoss + Voltage Division Factor

PMea: Measurement result on receiver.

Camera

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT05aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.1.	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Video Player

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT05aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.2.	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Camera

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT05aa/Set.2	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.3.	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Scanner and printer

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT05aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.4.	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Scanner and printer

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT08aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.5.	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Scanner and printer

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT09aa/Set.4	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.6.	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Data Transfer

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT05aa/Set.3	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.7.	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

AC Input Port/ Voltage: 120V/60Hz

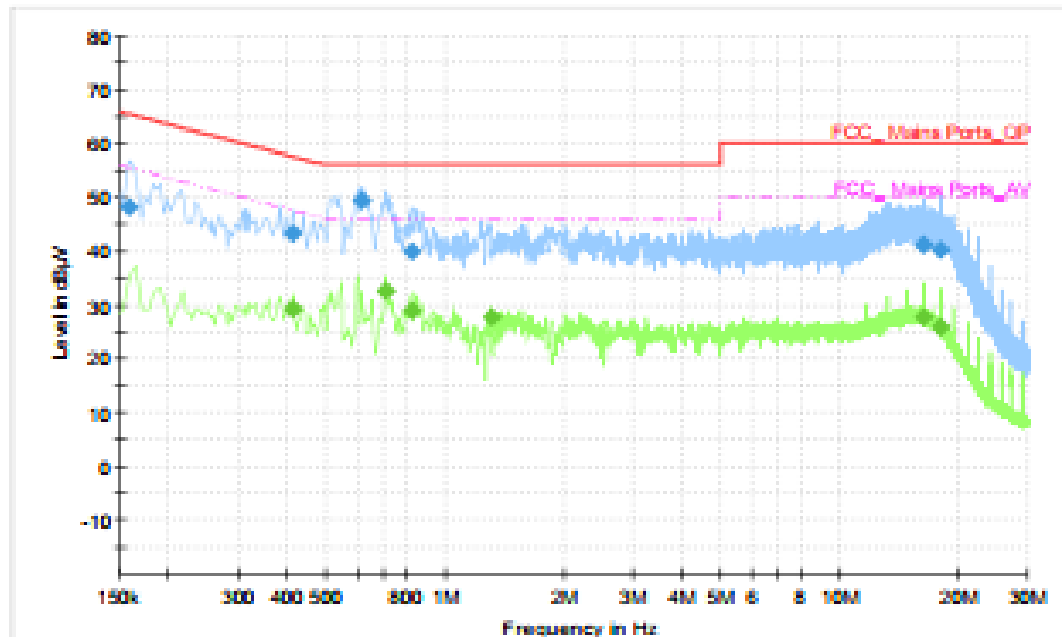


Figure A.2.1. Conducted Emission(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.158000	48.21	65.57	17.36	N	10	38.21
0.410000	43.27	57.65	14.38	N	10	33.27
0.614000	49.28	56.00	6.72	N	10	39.28
0.822000	39.91	56.00	16.09	N	10	29.91
16.402000	41.12	60.00	18.88	N	11	30.12
17.966000	40.18	60.00	19.82	N	11	29.18

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.410000	29.16	47.65	18.49	N	10	19.16
0.710000	32.48	46.00	13.52	N	10	22.48
0.822000	28.86	46.00	17.14	N	10	18.86
1.310000	27.62	46.00	18.38	N	10	17.62
16.402000	27.68	50.00	22.32	N	11	16.68
17.966000	25.76	50.00	24.24	N	11	14.76

AC Input Port/ Voltage: 120V/60Hz

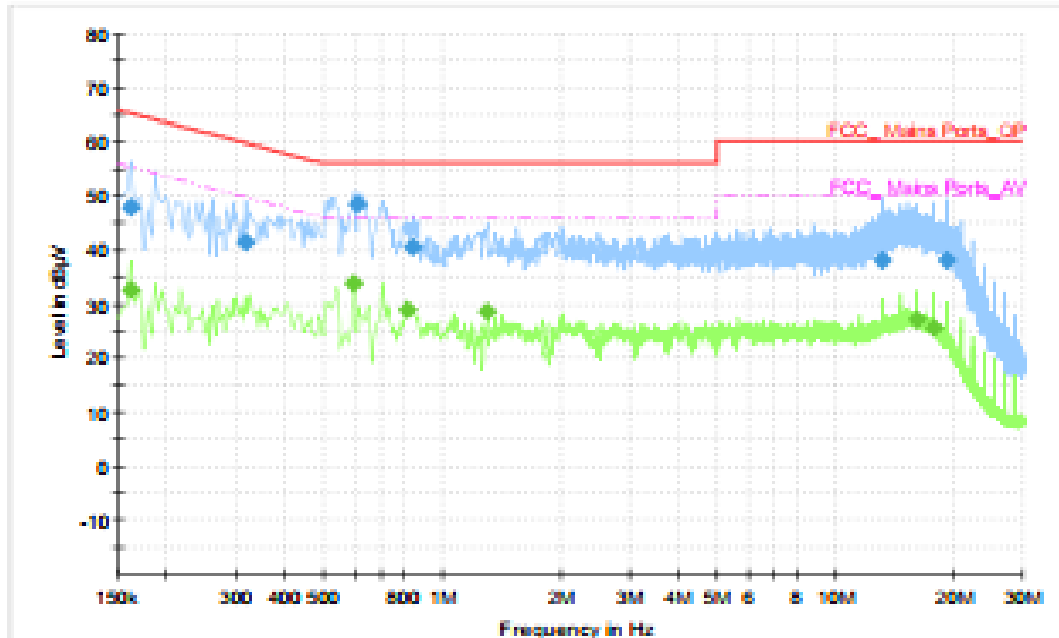


Figure A.2.2. Conducted Emission(Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.162000	47.82	65.36	17.54	N	10	37.82
0.318000	41.45	59.76	18.31	N	10	31.45
0.610000	48.52	56.00	7.48	L1	10	38.52
0.846000	40.66	56.00	15.34	L1	10	30.66
13.130000	37.99	60.00	22.01	L1	10	27.99
19.318000	38.13	60.00	21.87	L1	10	28.13

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.162000	32.58	55.36	22.78	N	10	22.58
0.598000	33.85	46.00	12.15	L1	10	23.85
0.814000	28.89	46.00	17.11	L1	10	18.89
1.306000	28.49	46.00	17.51	L1	10	18.49
16.222000	27.15	50.00	22.85	L1	10	17.15
17.766000	25.58	50.00	24.42	L1	10	15.58

AC Input Port/ Voltage: 120V/60Hz

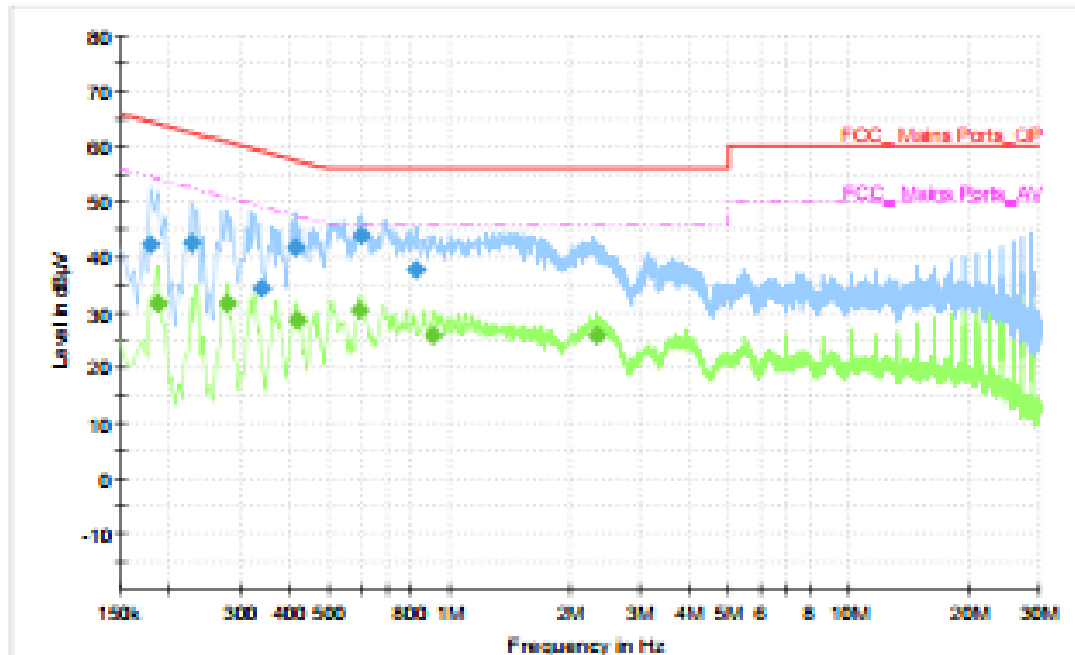


Figure A.2.3. Conducted Emission(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.178000	42.41	64.58	22.17	N	10	32.41
0.226000	42.60	62.60	19.99	N	10	32.6
0.338000	34.48	59.25	24.77	N	10	24.48
0.410000	41.89	57.65	15.75	N	10	31.89
0.602000	43.88	56.00	12.12	N	10	33.88
0.822000	37.78	56.00	18.22	N	10	27.78

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.186000	31.80	54.21	22.41	N	10	21.80
0.278000	31.61	50.88	19.26	N	10	21.61
0.418000	28.68	47.49	18.81	N	10	18.68
0.598000	30.50	46.00	15.50	N	10	20.50
0.910000	25.96	46.00	20.04	N	10	15.96
2.338000	25.90	46.00	20.10	N	10	15.90

AC Input Port/ Voltage: 120V/60Hz

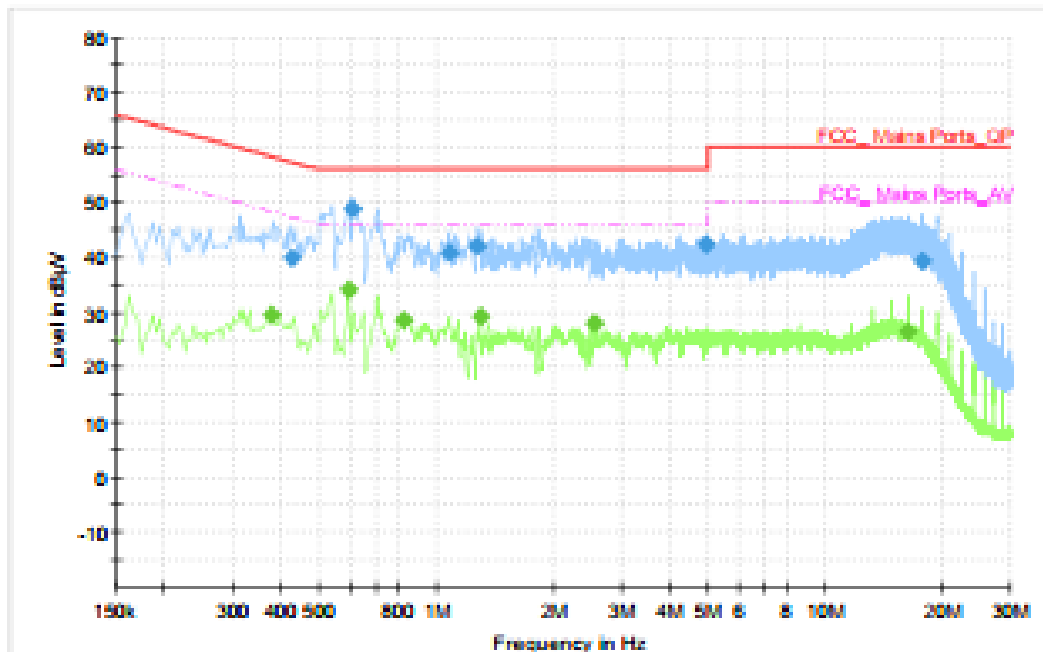


Figure A.2.4. Conducted Emission(Scanner and printer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.426000	39.94	57.33	17.39	N	10	29.94
0.610000	48.88	56.00	7.12	N	10	38.88
1.078000	40.74	56.00	15.26	N	10	30.74
1.274000	41.98	56.00	14.02	N	10	31.98
4.934000	42.26	56.00	13.74	N	10	32.26
17.902000	39.36	60.00	20.64	N	10	29.36

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.378000	29.66	48.32	18.67	N	10	19.66
0.594000	34.04	46.00	11.96	N	10	24.04
0.826000	28.74	46.00	17.26	N	10	18.74
1.298000	29.24	46.00	16.76	N	10	19.24
2.546000	27.97	46.00	18.03	N	10	17.97
16.346000	26.55	50.00	23.45	N	10	16.55

AC Input Port/ Voltage: 120V/60Hz

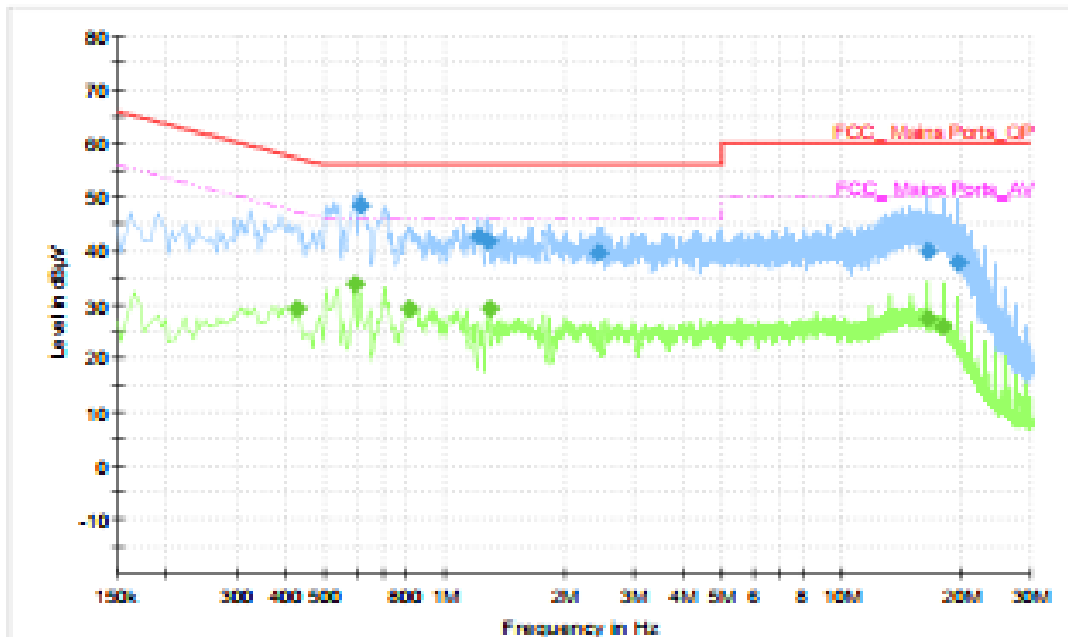


Figure A.2.5. Conducted Emission(Scanner and printer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.614000	48.60	56.00	7.40	N	10	38.60
1.222000	42.76	56.00	13.24	N	10	32.76
1.282000	41.77	56.00	14.23	N	10	31.77
2.454000	39.48	56.00	16.52	N	10	29.48
16.474000	39.93	60.00	20.07	N	10	29.93
19.614000	37.95	60.00	22.05	N	10	27.95

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.426000	29.15	47.33	18.18	N	10	19.15
0.594000	33.92	46.00	12.08	N	10	23.92
0.814000	29.24	46.00	16.76	N	10	19.24
1.302000	29.28	46.00	16.72	N	10	19.28
16.474000	27.35	50.00	22.65	N	10	17.35
18.046000	25.82	50.00	24.18	N	10	15.82

AC Input Port/ Voltage: 120V/60Hz

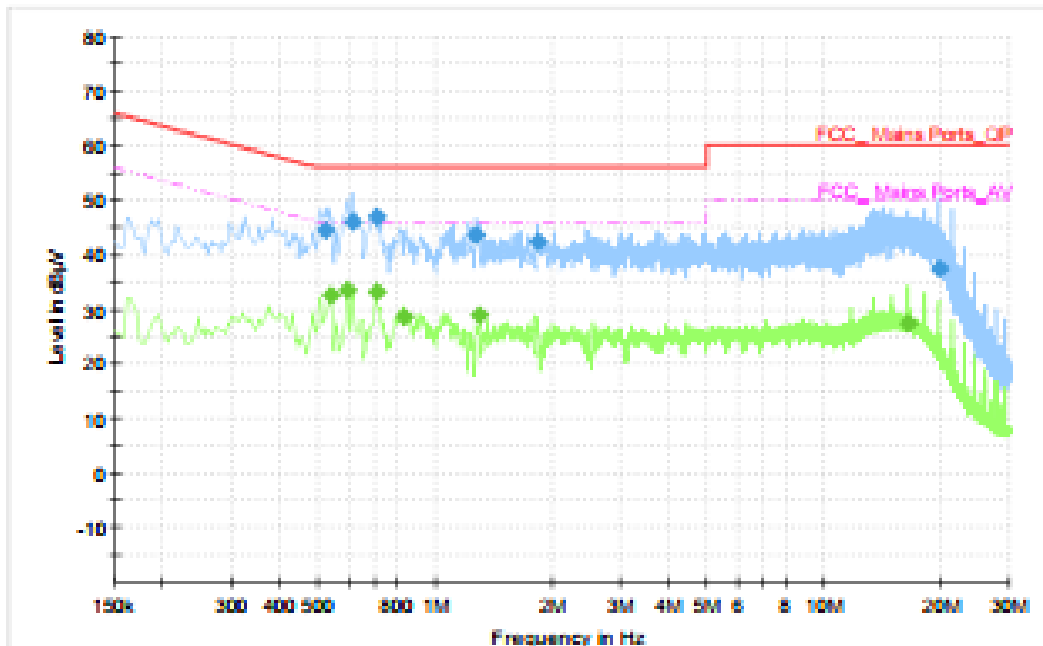


Figure A.2.6. Conducted Emission(Scanner and printer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.522000	44.59	56.00	11.41	N	10	34.59
0.618000	46.10	56.00	9.90	N	10	36.1
0.710000	46.93	56.00	9.07	N	10	36.93
1.278000	43.59	56.00	12.41	N	10	33.59
1.834000	42.33	56.00	13.67	N	10	32.33
19.754000	37.63	60.00	22.37	N	10	27.63

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.538000	32.71	46.00	13.29	N	10	22.71
0.598000	33.50	46.00	12.50	N	10	23.5
0.706000	33.14	46.00	12.86	N	10	23.14
0.838000	28.76	46.00	17.24	N	10	18.76
1.306000	28.91	46.00	17.09	N	10	18.91
16.590000	27.34	50.00	22.66	N	10	17.34

AC Input Port/ Voltage: 120V/60Hz

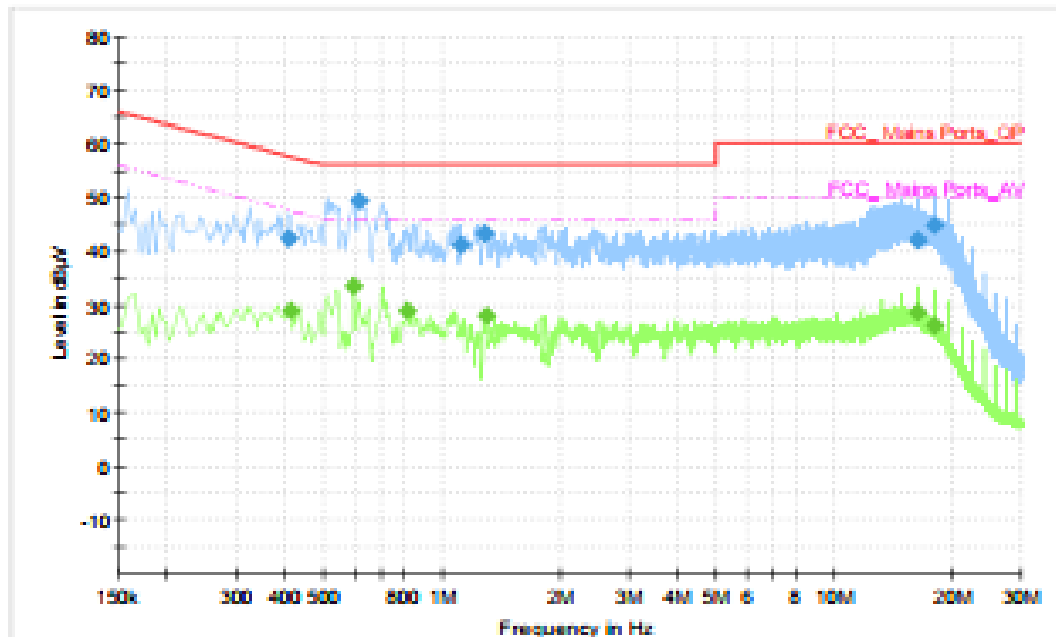


Figure A.2.7. Conducted Emission(Data Transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.406000	42.25	57.73	15.48	N	10	32.25
0.614000	49.28	56.00	6.72	N	10	39.28
1.122000	41.13	56.00	14.87	N	10	31.13
1.282000	43.25	56.00	12.75	N	10	33.25
16.422000	42.12	60.00	17.88	N	10	32.12
17.990000	44.92	60.00	15.08	N	10	34.92

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.410000	28.79	47.65	18.86	N	10	18.79
0.598000	33.58	46.00	12.42	N	10	23.58
0.818000	28.95	46.00	17.05	N	10	18.95
1.306000	28.16	46.00	17.84	N	10	18.16
16.422000	28.55	50.00	21.45	N	10	18.55
17.986000	26.33	50.00	23.67	N	10	16.33

****END OF REPORT****