



TEST REPORT

No.I23N02005-008-EMC

for

Schok LLC.

Smartphone

Model Name: SV67332

With

Hardware Version: Q6703_V1.0

Software Version: SV67Q_01.01.04

FCC ID: 2AM9L-SV67Q

Issued Date:2024-02-01

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
I23N02005-008-EMC	Rev.0	1st edition	2024-02-01

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	Smartphone
Model Name	SV67332
Applicant's name	Schok LLC.
Manufacturer's Name	Great Talent Technology Limited

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 Laboratory, Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, China

1.5. Project data

Testing Start Date: 2023-12-11

Testing End Date: 2024-01-31

1.6. Signature

Huang Yuqing
(Prepared this test report)

Liang Yong
(Reviewed this test report)

Cao Junfei
(Approved this test report)



2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: Schok LLC.
Address: 5850 Town and Country Blvd, Suite 203 | Frisco, TX 75034
Contact: Mike Harshbarger
E-mail: mike.harsh@schokgear.com
Tel: +1847-809-3294

2.2. Manufacturer Information

Company Name: Great Talent Technology Limited
Address: 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua,
Shenzhen, P.R. China
Contact: Chunli He
E-mail: hchunli@unimaxcomm.com
Tel: 0755-86638990



3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT

(AE)

3.1. About EUT

Description	Smartphone
Model Name	SV67332
FCC ID	2AM9L-SV67Q
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
UT09aa	358036140000086	Q6703_V1.0	SV67Q_01.01.04	2023-12-11
UT10aa	358036140000102	Q6703_V1.0	SV67Q_01.01.04	2023-12-11
UT15aa	358036140003841	Q6703_V1.0	SV67Q_01.01.04	2024-01-26

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

3.3. Internal Identification of AE

AE ID*	Description
AE1	Battery
AE2	Charger
AE3	USB Cable

AE1

Model	SB500Q
Manufacturer	Shenbird New Energy (Huizhou) Co.,Ltd.
Capacity	5000mAh
Nominal Voltage	3.85 V

AE2

Model	TPA-46050200UU
Manufacturer	SHENZHEN TIANYIN ELECTRONICS CO.,LTD.
Output Voltage	5 V

AE3

Model	L9 data cable, TYPE-C TO USBA/M L0.8M BLK
Manufacturer	Dongguan GuoJun Plastic Electronics Co.,Ltd

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

AE: ancillary equipment.

3.4. EUT Set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT+AE1+AE2+AE3	
Set.2	EUT+AE1+PC+AE3	

3.5. General Description

The Equipment Under Test (EUT) is a model of Smartphone with internal antenna.

Frequency Bands WCDMA Bands 2/4/5, LTE Bands 2/3/4/5/12/13/25/26/41/66/71.

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

It consists of normal options: Battery, Charger and USB 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 SV67332 (Original) for the primary test. The model SV67332 (Varian) which is a variant model based on the model SV67332 (Original), the table below shows the differences;

Changes	SV67332 (Original)	SV67332 (Varian)
LCD	/	add supplier zhongxian
Speaker	/	add supplier sichuan ruisheng
Camera	/	add supplier weixun
Charge circuit	/	Qualcomm -Big moment
Vibrator	/	add supplier jinxin
Memory	LPDDR4	LPDDR3

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

No	Test Item	EUT set-up No	Test Mode
1	Radiated Emission	Set.1	Camera
2	Conducted Emission	Set.1	Camera

Other results are cited from this report.



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

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

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

6. SUMMARY OF TEST RESULTS

6.1. Testing Environment

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

6.2. Summary of Measurement Results

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)
	18GHz-40GHz	2.36dB(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	2024.11.22	1 year
2.	Test Receiver	ESCI	100702	R&S	2025.01.10	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2025.01.10	1 year
4.	BiLog Antenna	3142E	00224831	ETS-Lindgren	2024.05.27	3 years
5.	LISN	ENV216	102067	R&S	2024.10.07	1 year
6.	Horn Antenna	3117	00066577	ETS-Lindgren	2025.04.17	3 years
7.	Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2025.05.28	2 years
8.	Universal Radio Communication Tester	CMU200	114545	R&S	2025.01.10	1 year
9.	Universal Radio Communication Tester	CMW500	152499	R&S	2024.07.13	1 year
10.	Universal Radio Communication Tester	E7515B	MY59322022	Keysight	2024.02.13	1 year
11.	Horn Antenna	QSH-SL-18-2 6-S-20	17013	Q-par	2026.02.01	3 years
12.	Horn Antenna	QSH-SL-8-26- 40-K-20	17014	Q-par	2026.01.30	3 years

9. MEASURING 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	/	/



10. MEASURING SOFTWARE

No.	Name	Manufacturer	Version
1	EMC32	Rohde & Schwarz	V10.50.40



ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission (§15.109(a))

Reference

FCC: Part 15.109(a)

IC: ICES-003 section 6.2

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator at a distance of 3 meters or 1 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. 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.

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.

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:

WCDMA Band5, LTE Band 5, LTE Band 12, LTE Band 13, LTE Band 26, 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.

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)

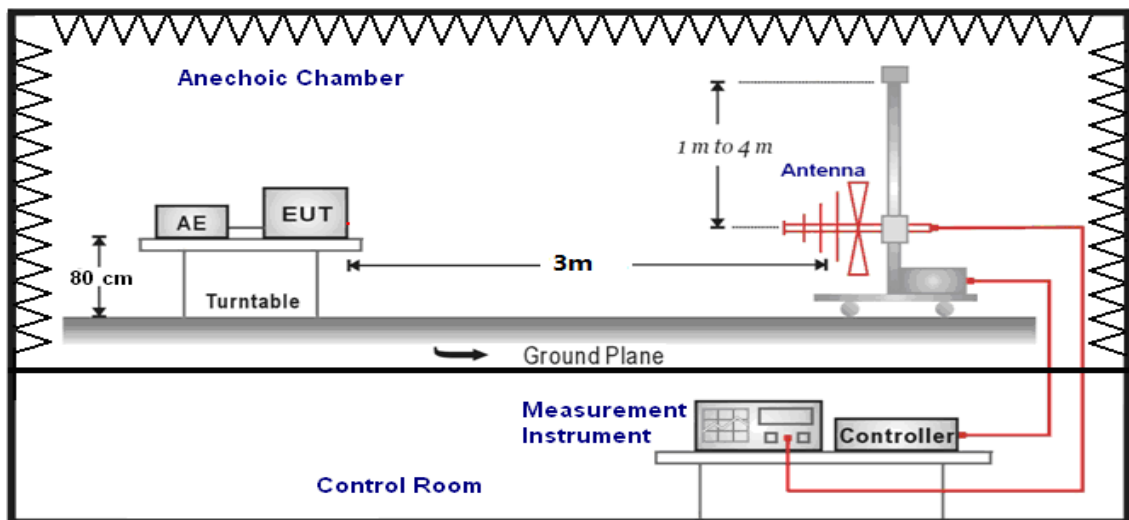
Frequency range (MHz)	Field strength limit ($\mu\text{V}/\text{m}$)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

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

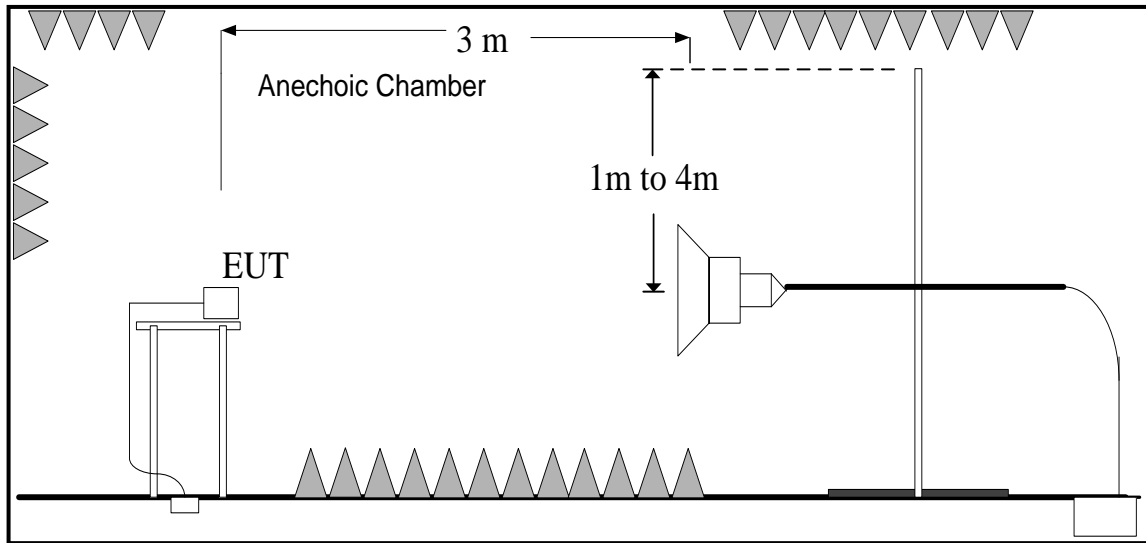
A.1.4 Test Condition

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

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



1GHz-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:

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

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
		UT11aa/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
			UT11aa/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
		UT11aa/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
			UT11aa/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.	

WCDMA receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT11aa/Set.1	
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
			UT11aa/Set.1	
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.	

LTE receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT11aa/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
			UT11aa/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.	

LTE receiver Band 12

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT11aa/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
			UT11aa/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.	

LTE receiver Band 13

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT11aa/Set.1	
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
			UT11aa/Set.1	
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.	

LTE receiver Band 26

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT11aa/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
			UT11aa/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.	

LTE receiver Band 71

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT11aa/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
			UT11aa/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.	

Data Transfer: PC TO EUT

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT11aa/Set.2	
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
			UT11aa/Set.2	
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.	

Data Transfer: EUT TO PC

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT11aa/Set.2	
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
			UT11aa/Set.2	
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.	



Data Transfer: PC TO TF

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT11aa/Set.2	
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
			UT11aa/Set.2	
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.	

Data Transfer: TF TO PC

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT11aa/Set.2	
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
			UT11aa/Set.2	
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.	

Camera

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT15aa/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
			UT15aa/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.	

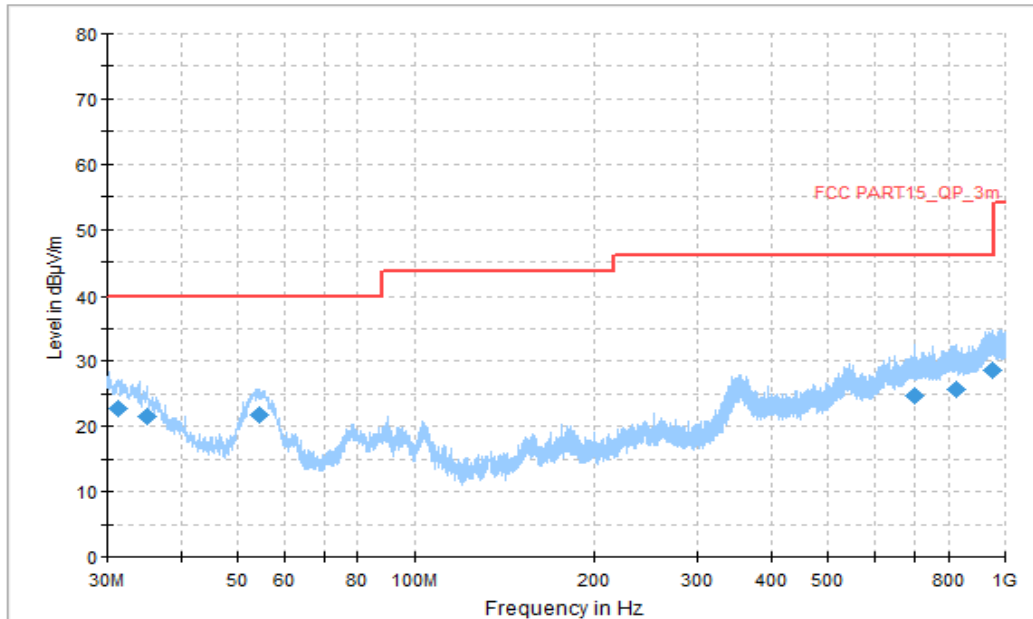


Figure A.1.1. Radiated Emission (Camera, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
31.401111	22.84	40.00	17.16	V	-12	34.84
35.065556	21.54	40.00	18.46	V	-14	35.54
54.411667	21.74	40.00	18.26	V	-21	42.74
699.785000	24.59	46.02	21.43	V	-1	25.59
825.076667	25.73	46.02	20.29	H	1	24.73
953.224444	28.72	46.02	17.30	H	3	25.72

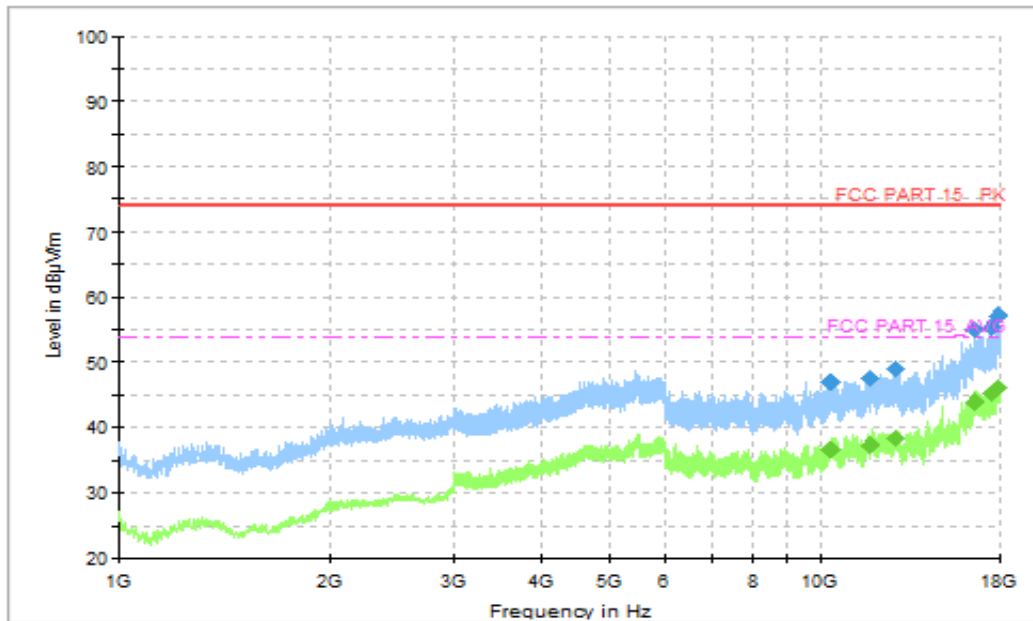


Figure A.1.2. Radiated Emission (Camera, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
10328.307692	46.81	74.00	27.19	V	10.5	36.31
11802.000000	47.55	74.00	26.45	V	12.2	35.35
12810.000000	49.12	74.00	24.88	H	13.1	36.02
16592.307692	55.11	74.00	18.89	V	18.8	36.31
17604.000000	55.43	74.00	18.57	H	20.7	34.73
17916.461539	57.13	74.00	16.87	H	21.8	35.33

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
10328.307692	36.56	54.00	17.44	V	10.5	26.06
11802.000000	37.29	54.00	16.71	V	12.2	25.09
12810.000000	38.26	54.00	15.74	H	13.1	25.16
16592.307692	43.99	54.00	10.01	V	18.8	25.19
17604.000000	45.09	54.00	8.91	H	20.7	24.39
17916.461539	46.19	54.00	7.81	H	21.8	24.39

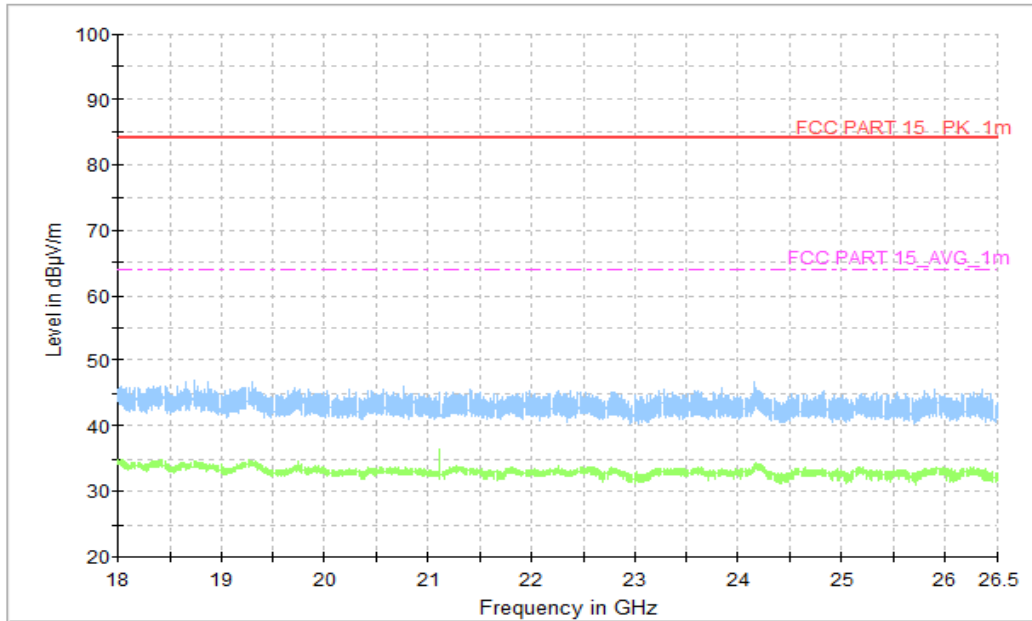


Figure A.1.3. Radiated Emission (Camera, 18GHz to 26.5GHz)

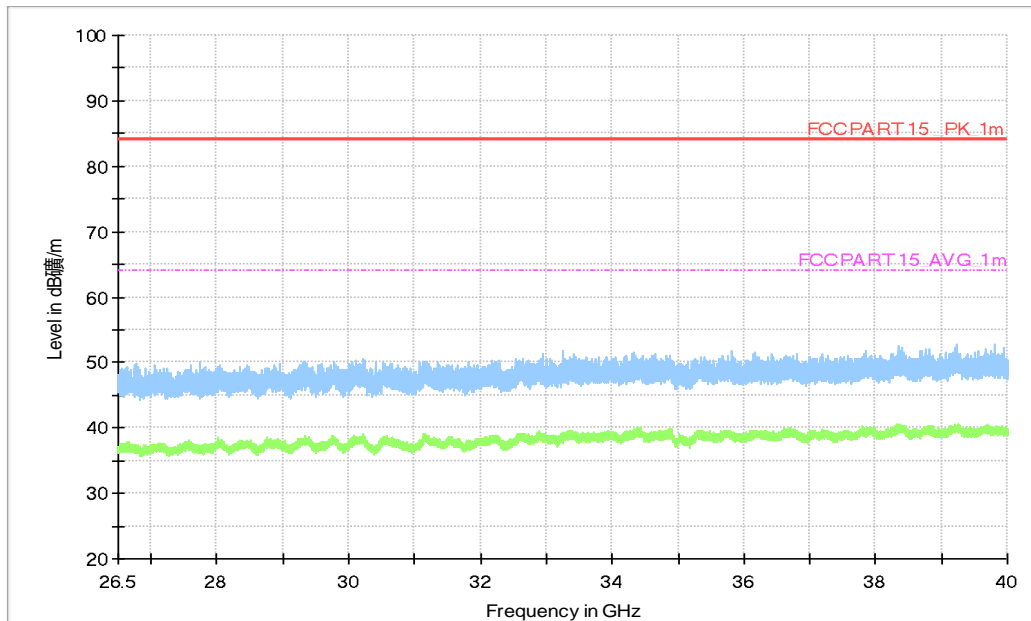


Figure A.1.4. Radiated Emission (Camera, 26.5GHz to 40GHz)

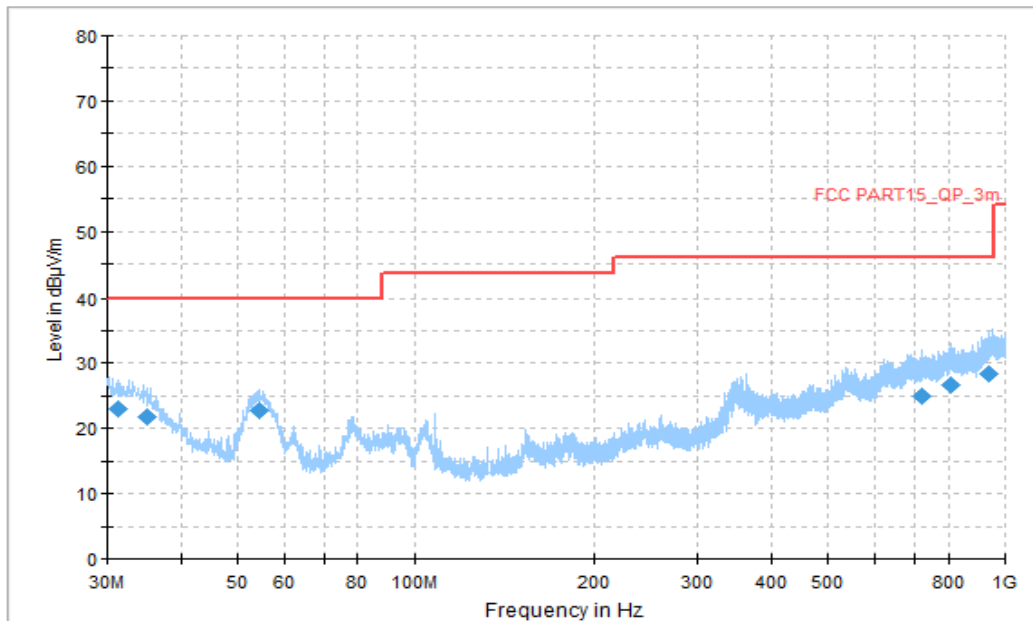


Figure A.1.5. Radiated Emission (Video Player, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
31.347222	23.06	40.00	16.94	V	-12	35.06
34.957778	21.75	40.00	18.25	V	-14	35.75
54.357778	22.84	40.00	17.16	V	-21	43.84
721.610000	25.00	46.02	21.02	H	0	25.00
807.886111	26.66	46.02	19.36	H	1	25.66
938.620556	28.35	46.02	17.67	V	3	25.35

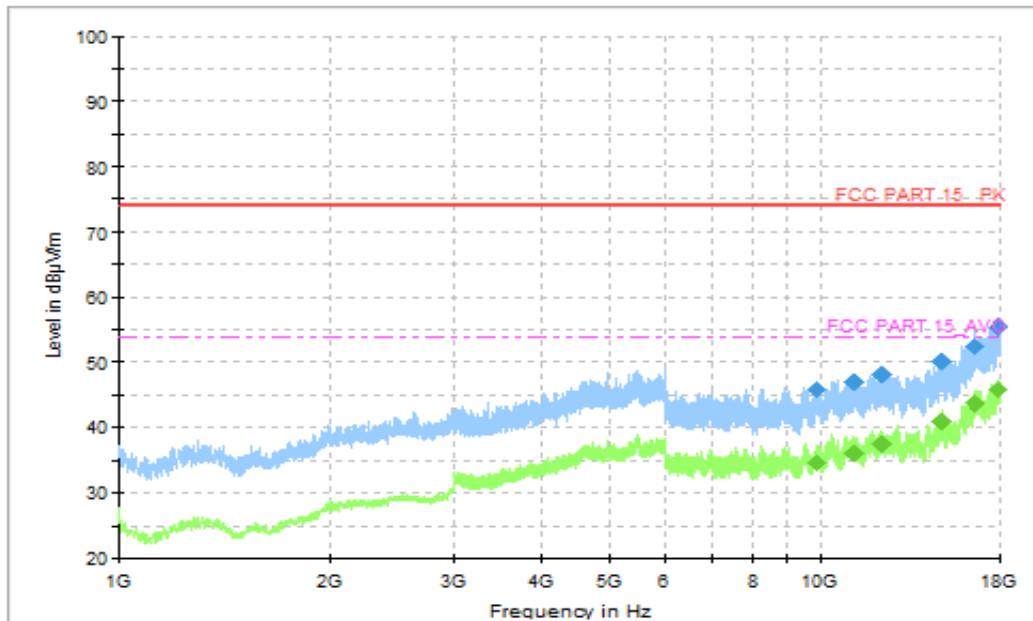


Figure A.1.6. Radiated Emission (Video Player, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
9892.153846	45.95	74.00	28.05	V	9.1	36.85
11170.615385	46.87	74.00	27.13	H	10.7	36.17
12232.615385	48.14	74.00	25.86	H	12.7	35.44
14873.076923	50.13	74.00	23.87	V	15.3	34.83
16569.692308	52.65	74.00	21.35	V	18.7	33.95
17887.846154	55.54	74.00	18.46	H	21.9	33.64

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
9892.153846	34.74	54.00	19.26	V	9.1	25.64
11170.615385	36.14	54.00	17.86	H	10.7	25.44
12232.615385	37.70	54.00	16.30	H	12.7	25.00
14873.076923	40.98	54.00	13.02	V	15.3	25.68
16569.692308	43.75	54.00	10.25	V	18.7	25.05
17887.846154	45.95	54.00	8.05	H	21.9	24.05

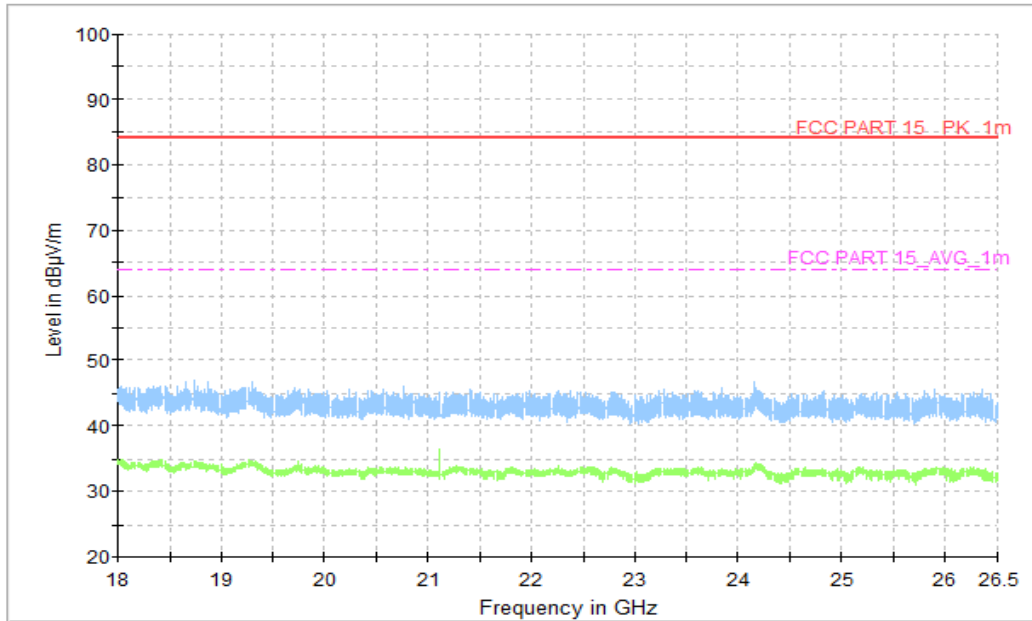


Figure A.1.7. Radiated Emission (Video Player, 18GHz to 26.5GHz)

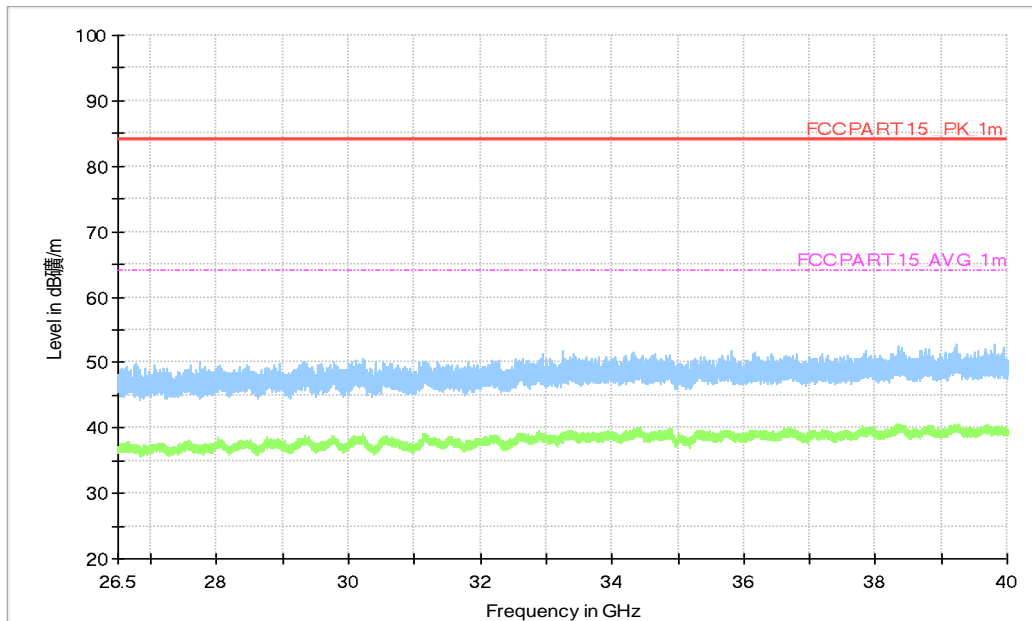


Figure A.1.8. Radiated Emission (Video Player, 26.5GHz to 40GHz)

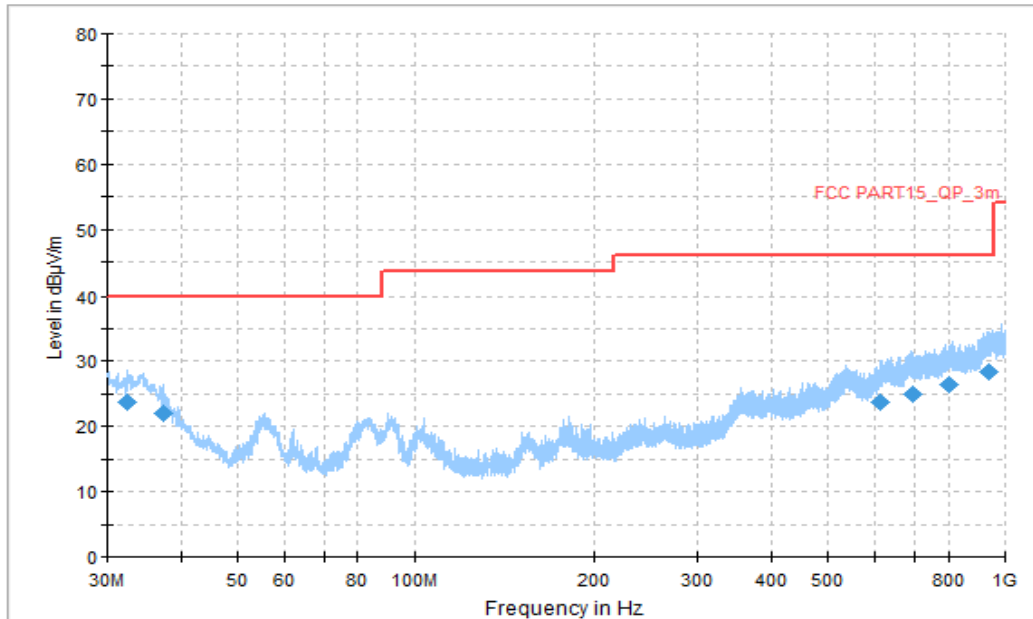


Figure A.1.9. Radiated Emission (WCDMA receiver Band 5, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
32.478889	23.62	40.00	16.38	V	-13	36.62
37.382778	22.04	40.00	17.96	V	-16	38.04
614.371111	23.84	46.02	22.18	V	-2	25.84
697.898889	24.86	46.02	21.16	H	-1	25.86
803.251667	26.36	46.02	19.66	V	1	25.36
935.117778	28.33	46.02	17.69	H	3	25.33

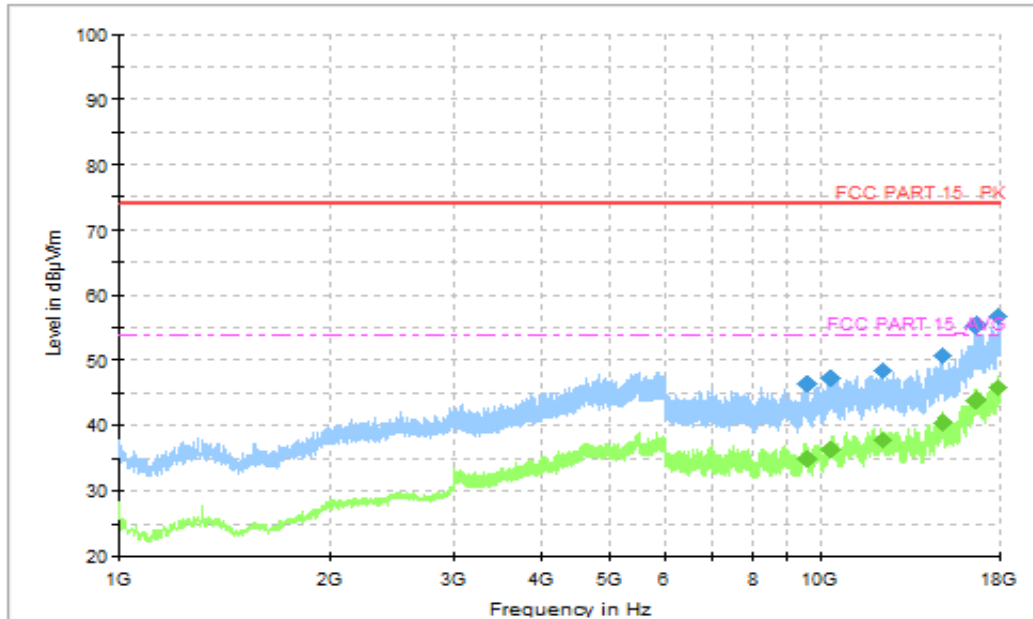


Figure A.1.10. Radiated Emission (WCDMA receiver Band 5, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
10384.153846	47.03	74.00	26.97	V	10.2	36.83
12062.307692	47.85	74.00	26.15	V	12.2	35.65
12943.384615	48.59	74.00	25.41	H	13.2	35.39
13767.692308	48.58	74.00	25.42	H	13.3	35.28
16567.846154	54.20	74.00	19.80	V	18.6	35.6
17893.384615	56.47	74.00	17.53	H	21.8	34.67

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
10384.153846	36.50	54.00	17.50	V	10.2	26.30
12062.307692	37.22	54.00	16.78	V	12.2	25.02
12943.384615	38.07	54.00	15.93	H	13.2	24.87
13767.692308	38.12	54.00	15.88	H	13.3	24.82
16567.846154	43.81	54.00	10.19	V	18.6	25.21
17893.384615	45.70	54.00	8.30	H	21.8	23.90

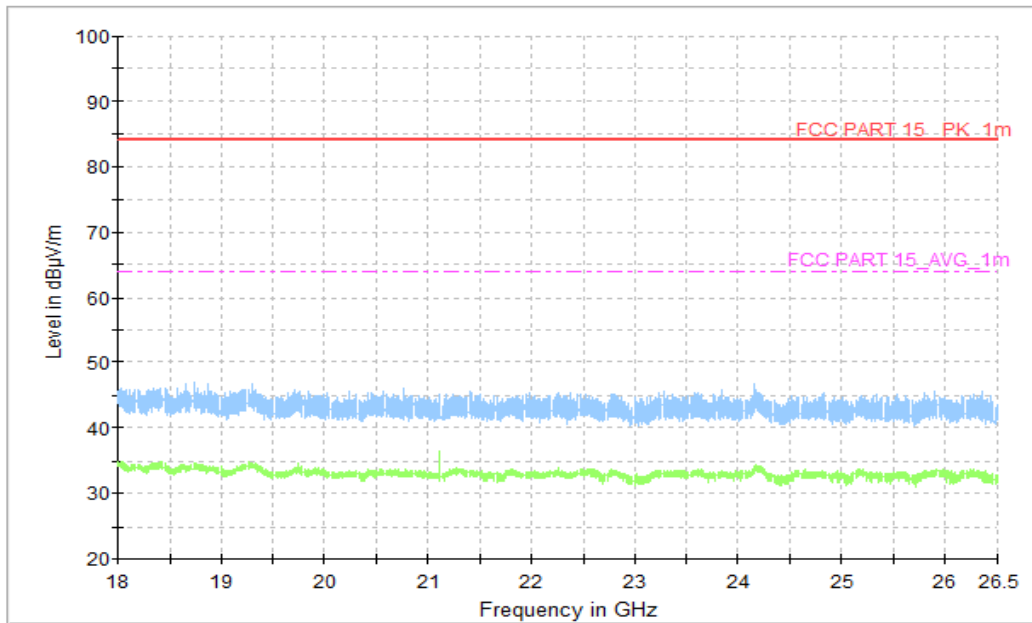


Figure A.1.11. Radiated Emission (WCDMA receiver Band 5, 18GHz to 26.5GHz)

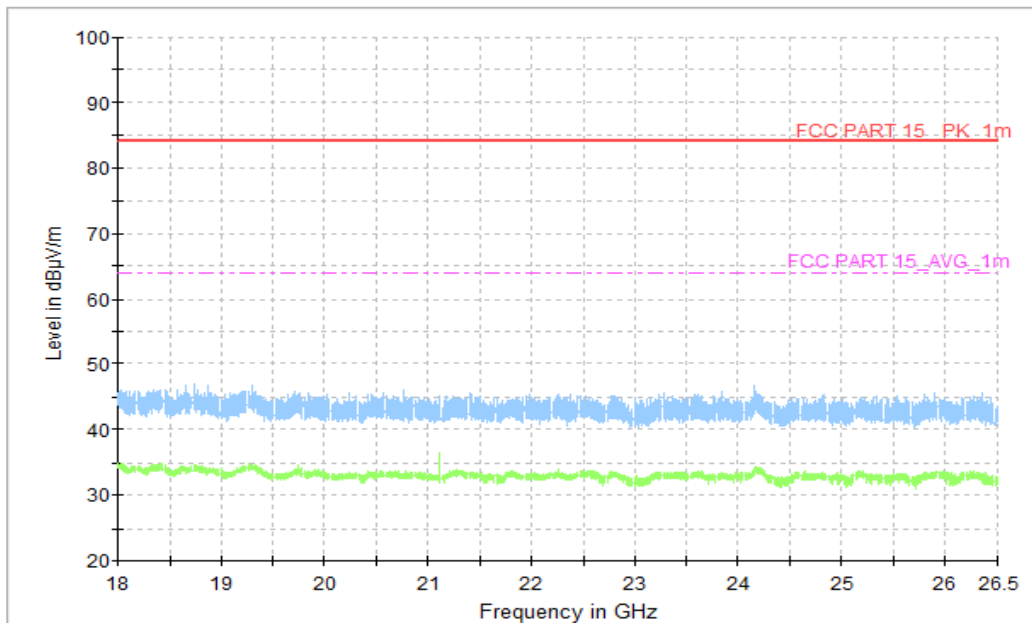


Figure A.1.12. Radiated Emission (WCDMA receiver Band 5, 26.5GHz to 40GHz)

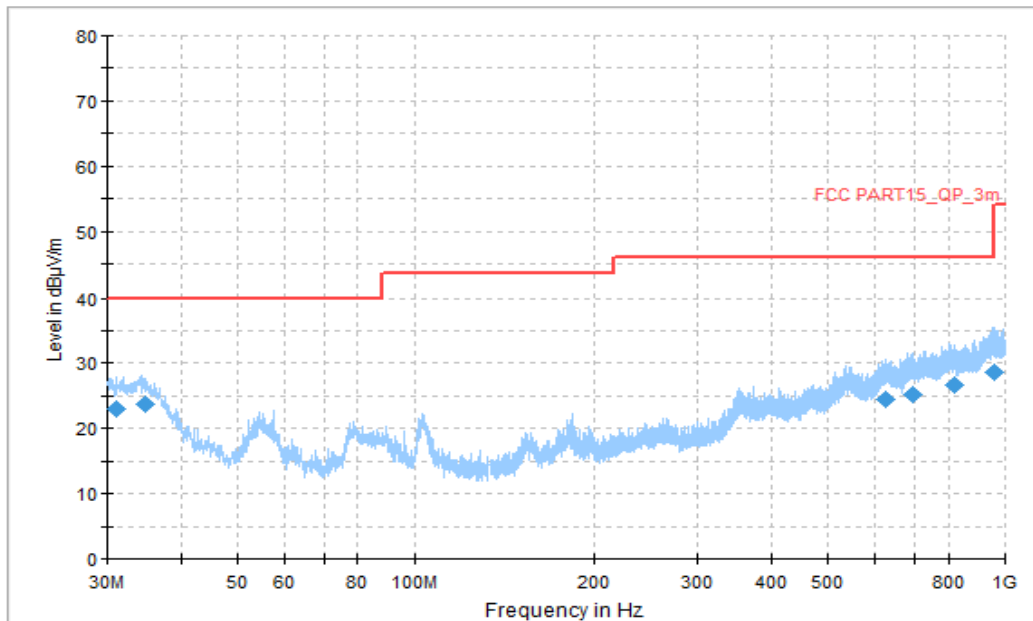


Figure A.1.13. Radiated Emission (LTE receiver Band 5, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
31.131667	23.07	40.00	16.93	V	-12	35.07
34.850000	23.69	40.00	16.31	V	-14	37.69
627.196667	24.50	46.02	21.52	V	-1	25.50
696.120556	25.09	46.02	20.93	V	-1	26.09
818.933333	26.62	46.02	19.40	V	1	25.62
959.475556	28.71	46.02	17.31	V	3	25.71

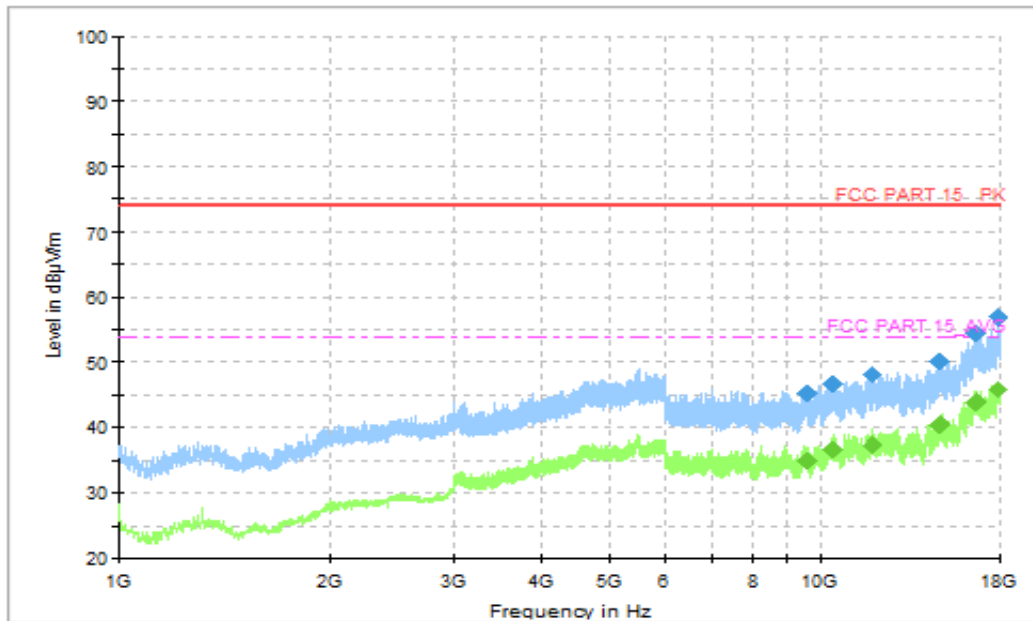


Figure A.1.14. Radiated Emission (LTE receiver Band 5, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
9576.923077	45.13	74.00	28.87	V	8.3	36.83
10415.538462	46.73	74.00	27.27	V	10.0	36.73
11882.769231	48.01	74.00	25.99	V	12.6	35.41
14796.923077	50.07	74.00	23.93	V	15.2	34.87
16631.076923	54.40	74.00	19.60	H	19.1	35.3
17900.769231	56.94	74.00	17.06	H	21.8	35.14

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
9576.923077	34.92	54.00	19.08	V	8.3	26.62
10415.538462	36.55	54.00	17.45	V	10.0	26.55
11882.769231	37.30	54.00	16.70	V	12.6	24.70
14796.923077	40.48	54.00	13.52	V	15.2	25.28
16631.076923	43.96	54.00	10.04	H	19.1	24.86
17900.769231	45.90	54.00	8.10	H	21.8	24.10

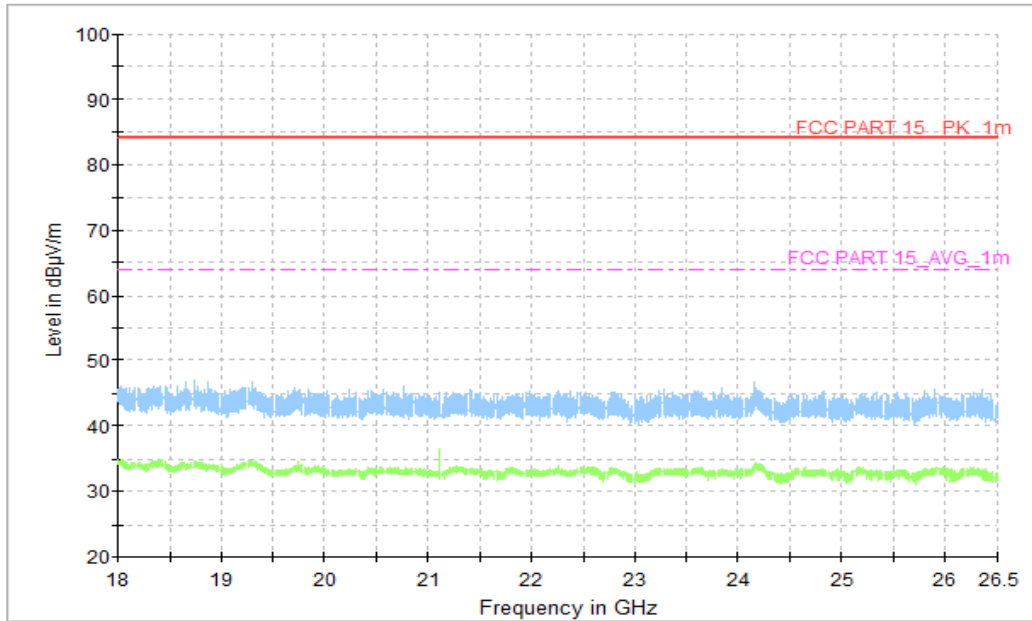


Figure A.1.15. Radiated Emission (LTE receiver Band 5, 18GHz to 26.5GHz)

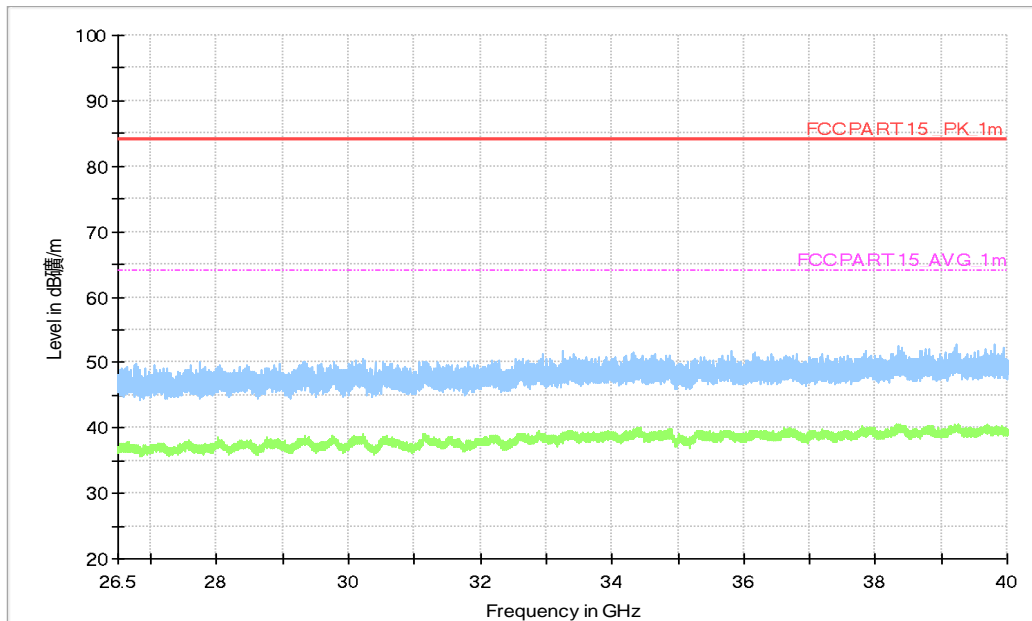


Figure A.1.16. Radiated Emission (LTE receiver Band 5, 26.5GHz to 40GHz)

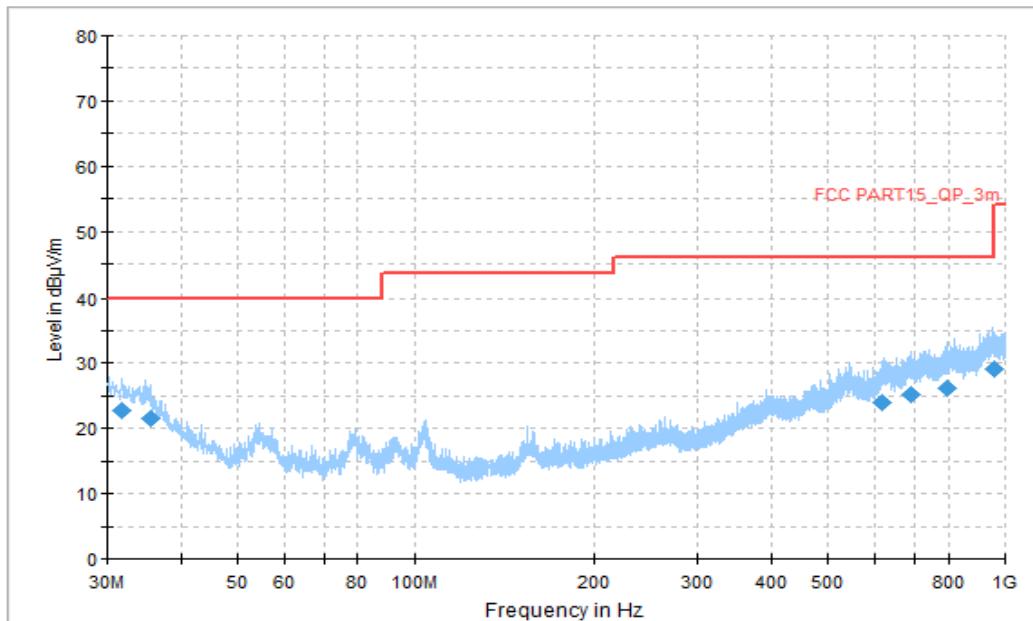


Figure A.1.17. Radiated Emission (LTE receiver Band 12, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
31.778333	22.80	40.00	17.20	V	-12	34.80
35.550556	21.48	40.00	18.52	V	-14	35.48
616.850000	24.03	46.02	21.99	V	-2	26.03
689.707778	25.29	46.02	20.73	V	0	25.29
799.533333	26.26	46.02	19.76	H	1	25.26
955.002778	29.03	46.02	16.99	V	3	26.03

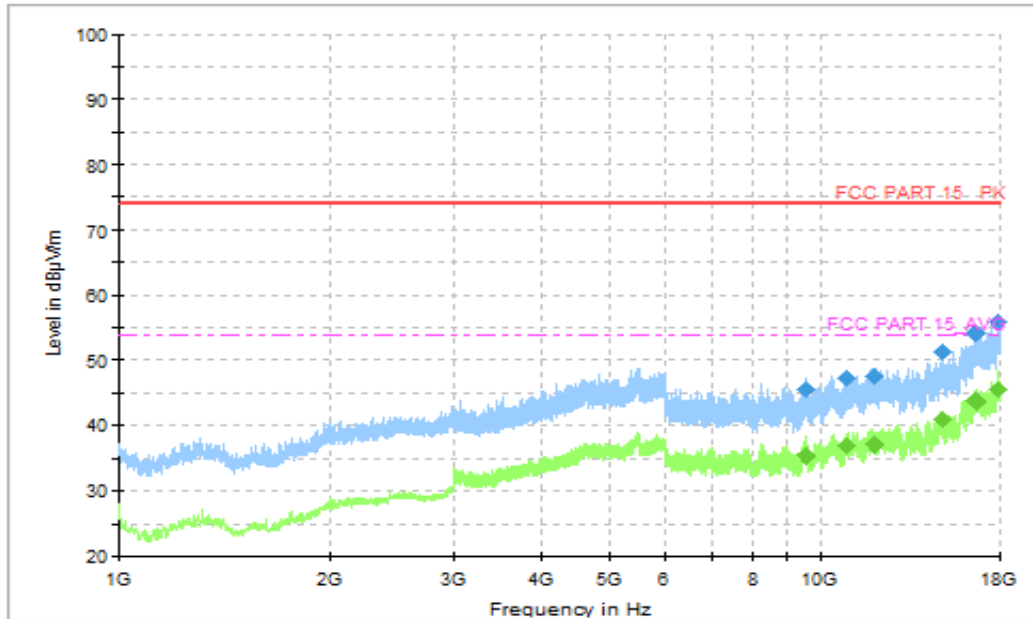


Figure A.1.18. Radiated Emission (LTE receiver Band 12, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
9540.000000	45.80	74.00	28.20	V	8.4	37.40
10907.538462	47.28	74.00	26.72	V	10.4	36.88
11958.461539	47.55	74.00	26.45	V	12.1	35.45
14930.769231	51.33	74.00	22.67	V	15.3	36.03
16638.000000	54.35	74.00	19.65	V	19.1	35.25
17900.769231	55.95	74.00	18.05	V	21.8	34.15

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
9540.000000	35.49	54.00	18.51	V	8.4	27.09
10907.538462	36.76	54.00	17.24	V	10.4	26.36
11958.461539	37.12	54.00	16.88	V	12.1	25.02
14930.769231	40.98	54.00	13.02	V	15.3	25.68
16638.000000	43.73	54.00	10.27	V	19.1	24.63
17900.769231	45.79	54.00	8.21	V	21.8	23.99

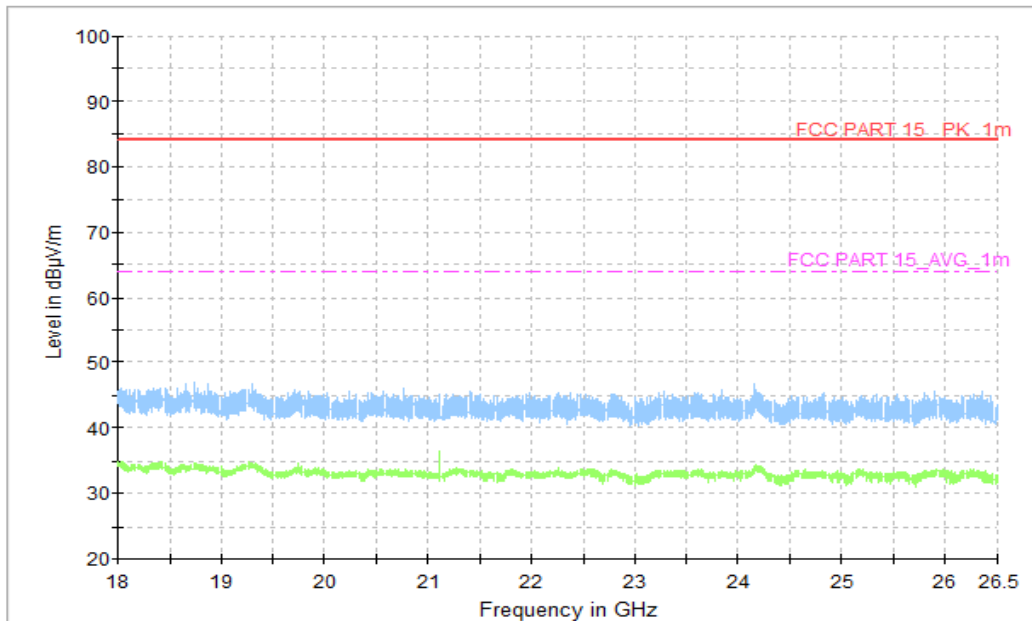


Figure A.1.19. Radiated Emission (LTE receiver Band 12, 18GHz to 26.5GHz)

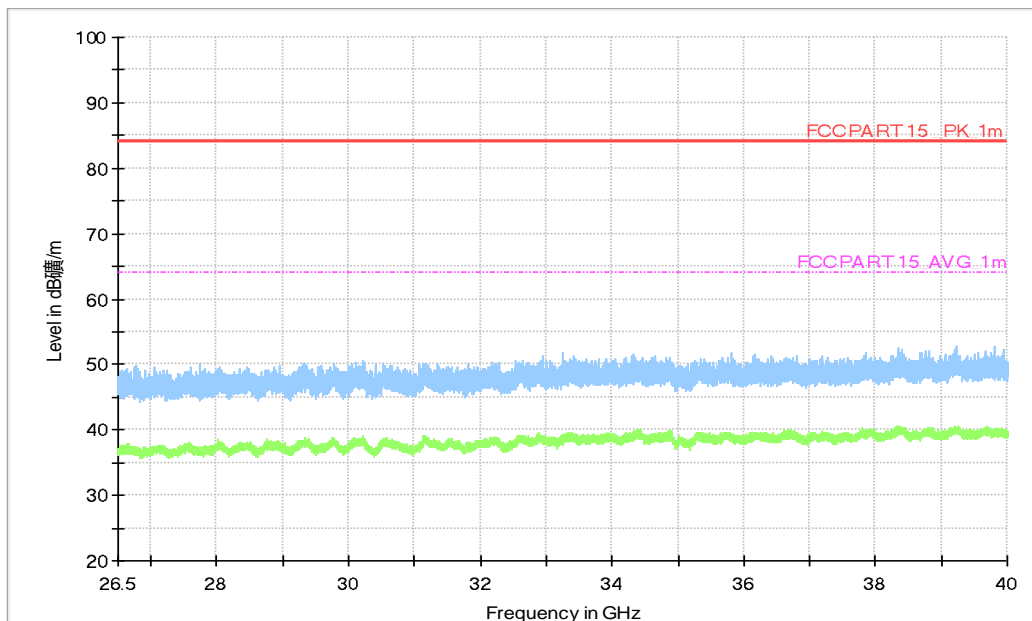


Figure A.1.20. Radiated Emission (LTE receiver Band 12, 26.5GHz to 40GHz)

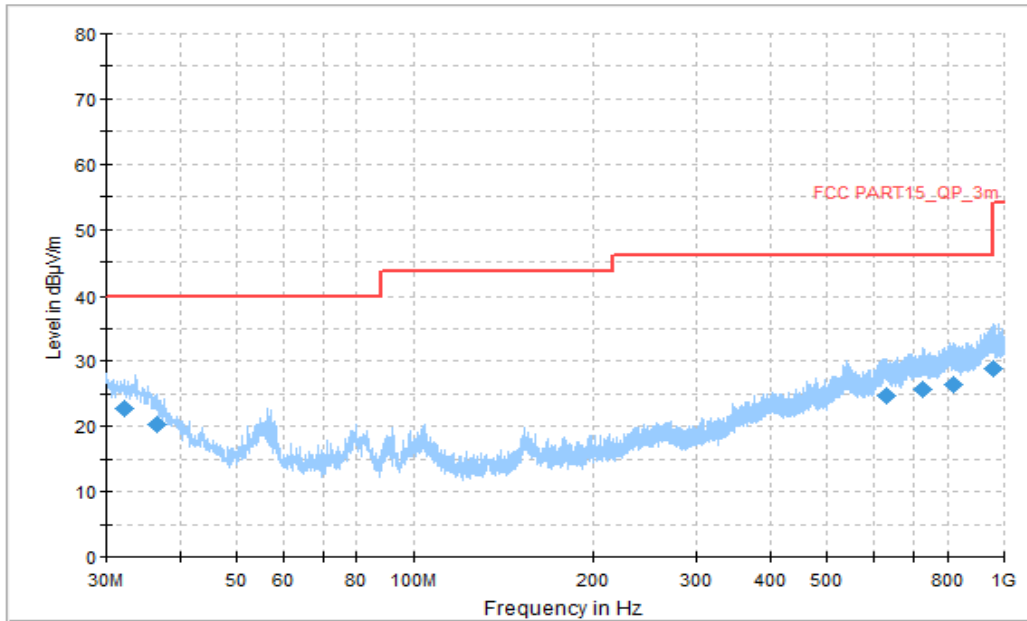


Figure A.1.21. Radiated Emission (LTE receiver Band 13, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
32.263333	22.87	40.00	17.13	V	-12	34.87
36.466667	20.24	40.00	19.76	V	-15	35.24
630.591667	24.60	46.02	21.42	V	-1	25.60
729.585556	25.71	46.02	20.31	H	0	25.71
822.543889	26.38	46.02	19.64	H	1	25.38
957.589444	28.87	46.02	17.15	H	3	25.87

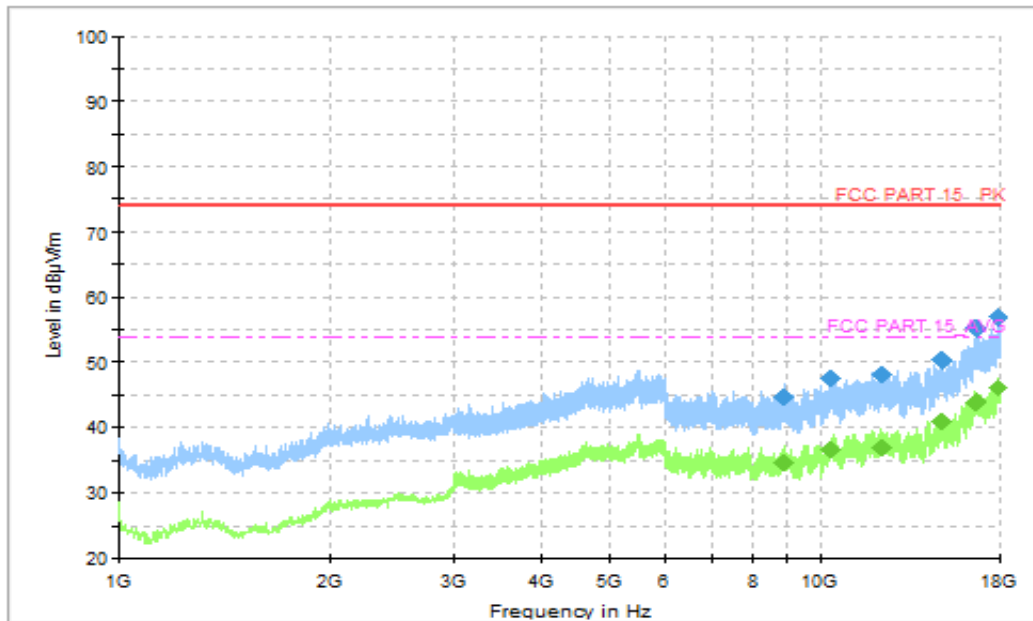


Figure A.1.22. Radiated Emission (LTE receiver Band 13, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
8896.153846	44.78	74.00	29.22	V	7.4	37.38
10355.538462	47.72	74.00	26.28	H	10.4	37.32
12206.769231	48.11	74.00	25.89	H	12.6	35.51
14910.923077	50.31	74.00	23.69	V	15.3	35.01
16645.384615	55.29	74.00	18.71	V	19.2	36.09
17916.923077	56.96	74.00	17.04	V	21.8	35.16

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
8896.153846	34.56	54.00	19.44	V	7.4	27.16
10355.538462	36.66	54.00	17.34	H	10.4	26.26
12206.769231	36.98	54.00	17.02	H	12.6	24.38
14910.923077	41.06	54.00	12.94	V	15.3	25.76
16645.384615	43.92	54.00	10.08	V	19.2	24.72
17916.923077	46.18	54.00	7.82	V	21.8	24.38

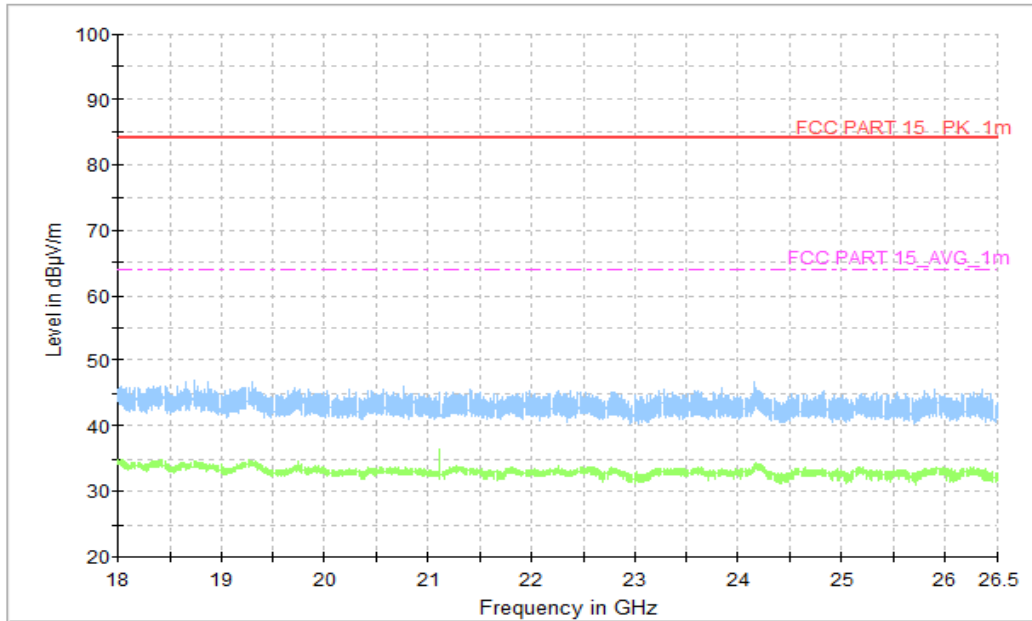


Figure A.1.23. Radiated Emission (LTE receiver Band 13, 18GHz to 26.5GHz)

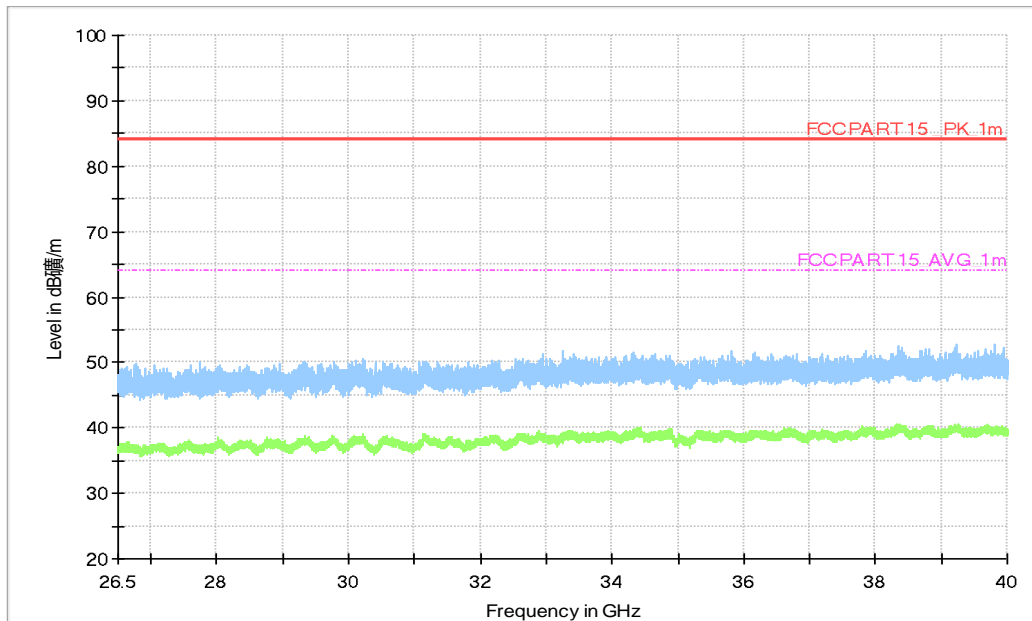


Figure A.1.24. Radiated Emission (LTE receiver Band 13, 26.5GHz to 40GHz)

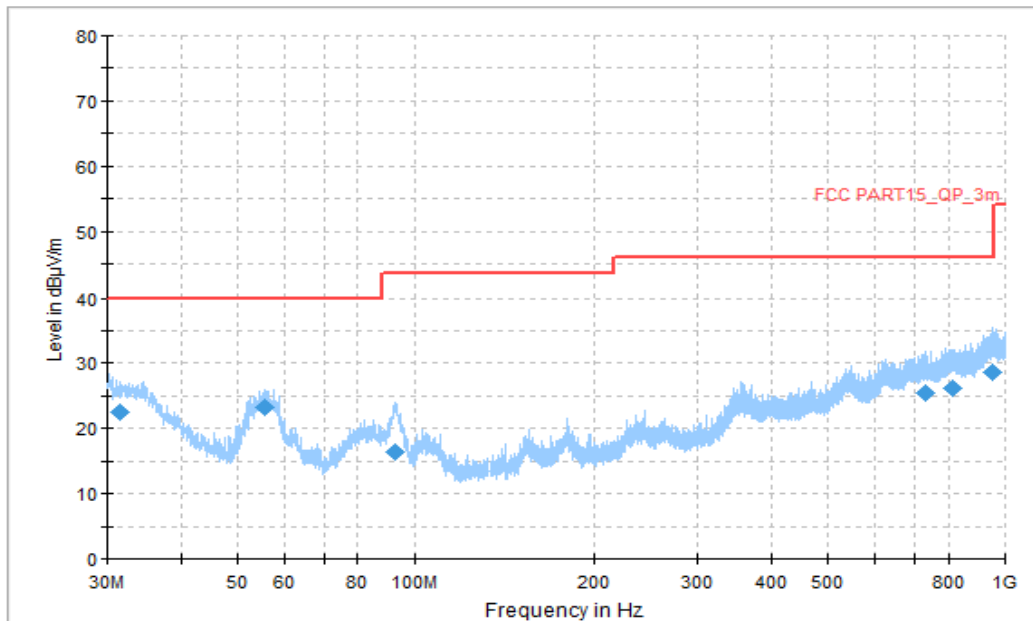


Figure A.1.25. Radiated Emission (LTE receiver Band 26, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
31.455000	22.42	40.00	17.58	V	-12	34.42
55.489444	23.28	40.00	16.72	V	-21	44.28
92.834444	16.27	43.52	27.25	V	-20	36.27
733.250000	25.36	46.02	20.66	V	0	25.36
812.736111	26.21	46.02	19.81	V	1	25.21
951.230556	28.52	46.02	17.50	H	3	25.52

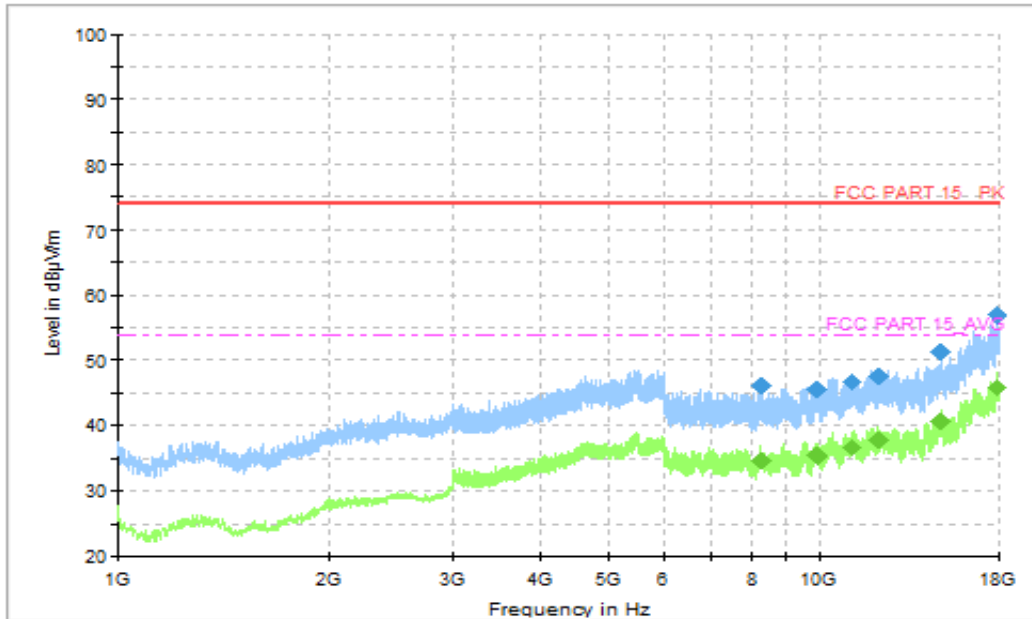


Figure A.1.26. Radiated Emission (LTE receiver Band 26, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
8255.538462	46.07	74.00	27.93	V	6.8	39.27
9950.307692	45.69	74.00	28.32	V	9.3	36.39
11111.538462	46.67	74.00	27.33	V	10.7	35.97
12123.692308	47.73	74.00	26.27	H	12.6	35.13
14850.000000	51.41	74.00	22.59	V	15.2	36.21
17910.000000	56.92	74.00	17.08	H	21.8	35.12

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
8255.538462	34.66	54.00	19.34	V	6.8	27.86
9950.307692	35.39	54.00	18.61	V	9.3	26.09
11111.538462	36.60	54.00	17.40	V	10.7	25.90
12123.692308	37.74	54.00	16.26	H	12.6	25.14
14850.000000	40.77	54.00	13.23	V	15.2	25.57
17910.000000	46.00	54.00	8.00	H	21.8	24.20

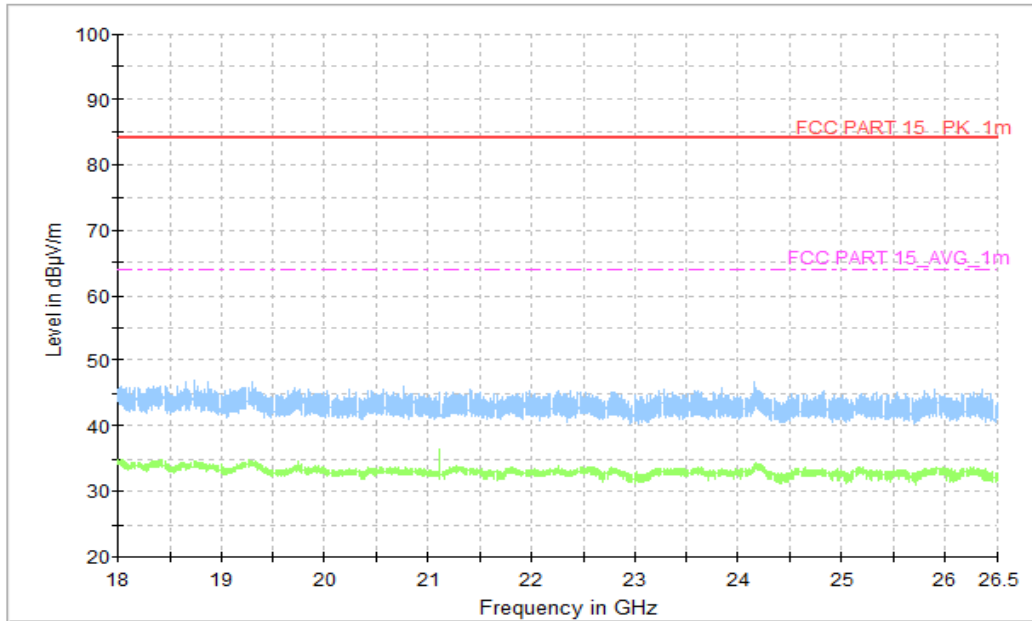


Figure A.1.27. Radiated Emission (LTE receiver Band 26, 18GHz to 26.5GHz)

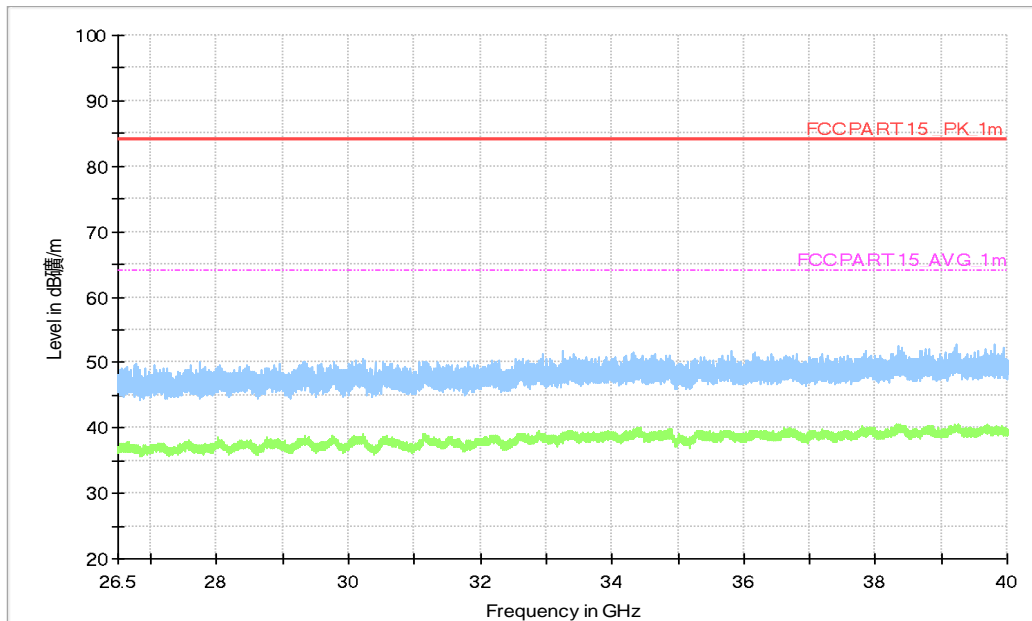


Figure A.1.28. Radiated Emission (LTE receiver Band 26, 26.5GHz to 40GHz)

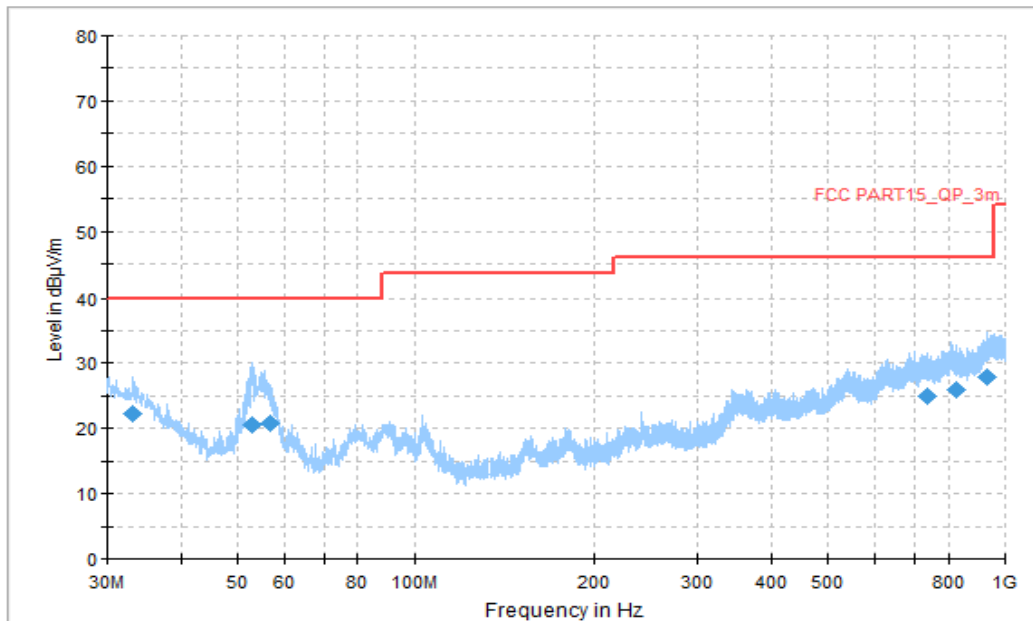


Figure A.1.29. Radiated Emission (LTE receiver Band 71, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
33.125556	22.29	40.00	17.71	V	-13	35.29
52.795000	20.47	40.00	19.53	V	-21	41.47
56.890556	20.86	40.00	19.14	V	-21	41.86
738.046111	24.94	46.02	21.08	H	0	24.94
823.028889	25.85	46.02	20.17	H	1	24.85
929.621111	27.96	46.02	18.06	H	3	24.96

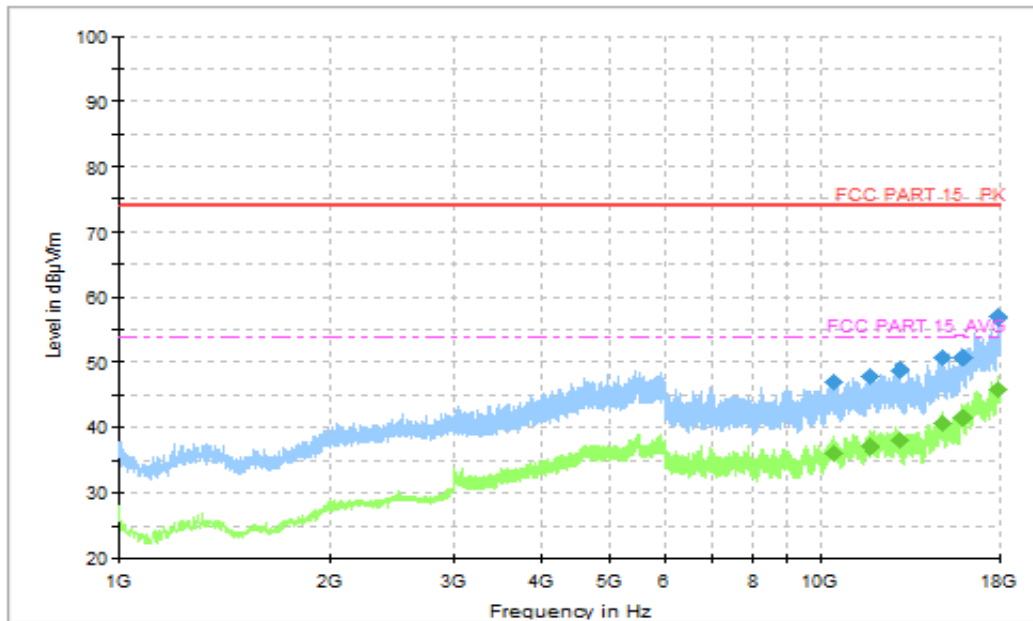


Figure A.1.30. Radiated Emission (LTE receiver Band 71, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
10465.384615	46.90	74.00	27.10	V	9.8	37.10
11825.538462	47.81	74.00	26.19	H	12.3	35.51
12941.538462	48.85	74.00	25.15	V	13.2	35.65
14949.692308	50.89	74.00	23.11	V	15.2	35.69
15971.538462	50.94	74.00	23.06	H	16.2	34.74
17916.000000	57.02	74.00	16.98	H	21.8	35.22

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
10465.384615	36.26	54.00	17.74	V	9.8	26.46
11825.538462	37.18	54.00	16.82	H	12.3	24.88
12941.538462	38.13	54.00	15.87	V	13.2	24.93
14949.692308	40.79	54.00	13.21	V	15.2	25.59
15971.538462	41.51	54.00	12.49	H	16.2	25.31
17916.000000	46.03	54.00	7.97	H	21.8	24.23

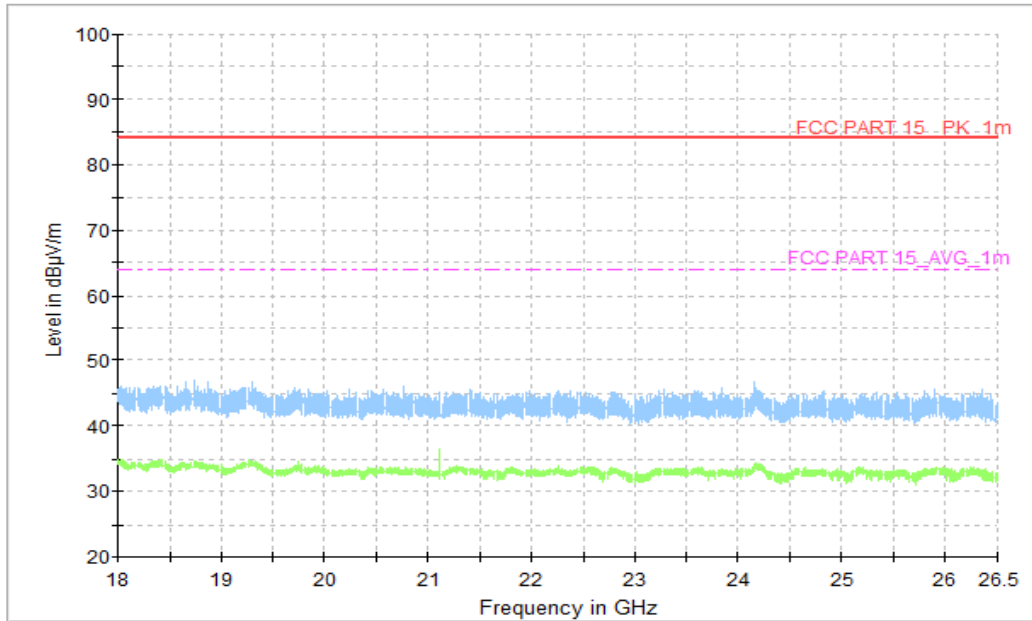


Figure A.1.31. Radiated Emission (LTE receiver Band 71, 18GHz to 26.5GHz)

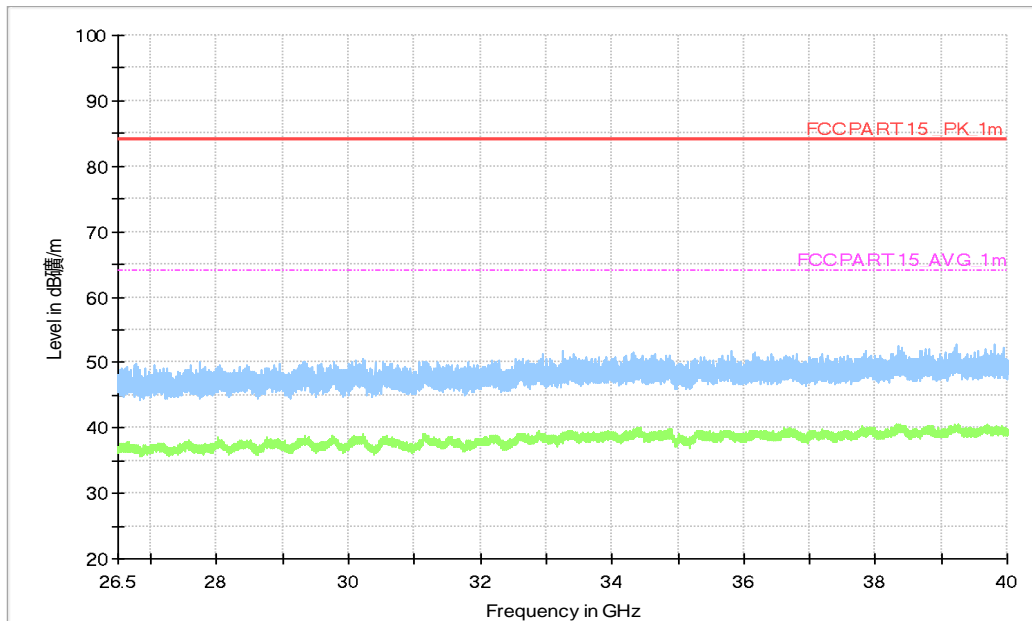


Figure A.1.32. Radiated Emission (LTE receiver Band 71, 26.5GHz to 40GHz)

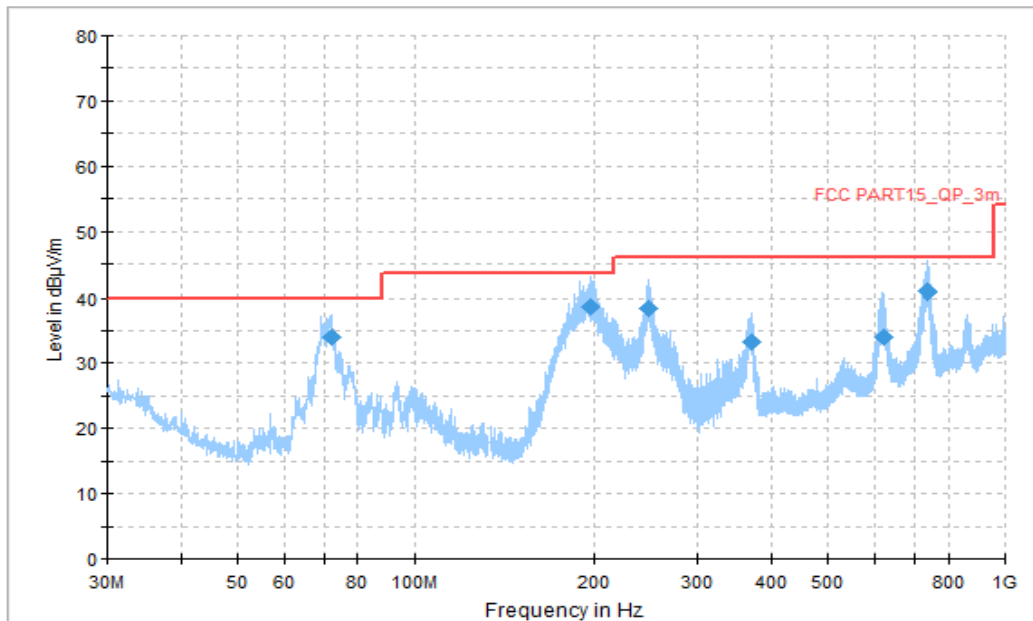


Figure A.1.33. Radiated Emission (Data Transfer: PC TO EUT, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
72.087222	34.06	40.00	5.94	H	-20	54.06
197.163333	38.65	43.52	4.87	H	-16	54.65
248.250000	38.49	46.02	7.53	H	-14	52.49
369.823333	33.26	46.02	12.76	H	-8	41.26
622.670000	34.00	46.02	12.02	V	-1	35
739.824444	40.76	46.02	5.26	V	0	40.76

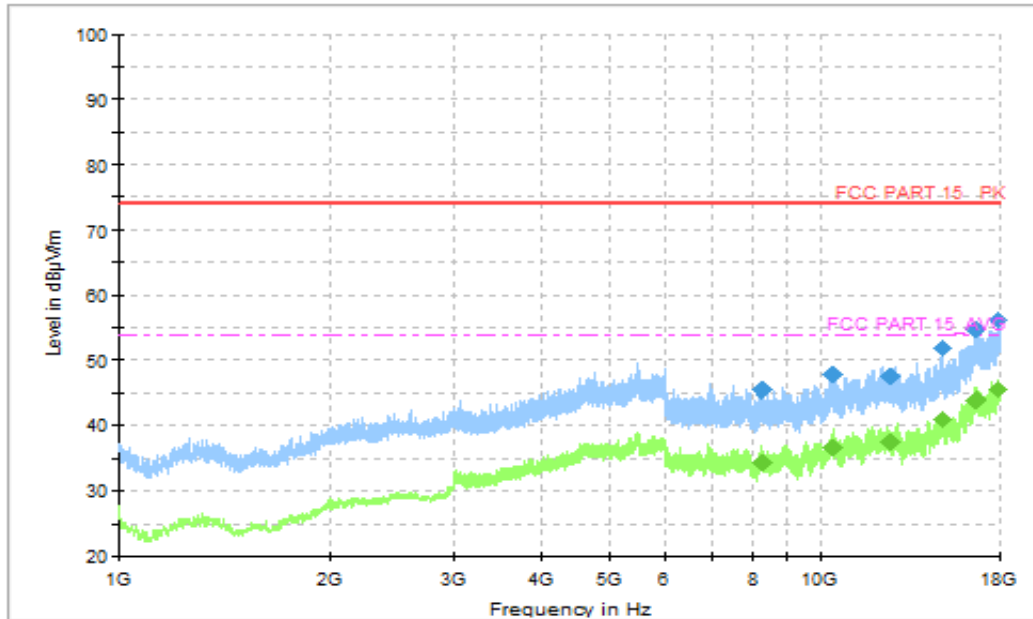


Figure A.1.34. Radiated Emission (Data Transfer: PC TO EUT, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
8247.230769	45.47	74.00	28.53	H	6.8	38.67
10384.153846	47.80	74.00	26.20	V	10.2	37.6
12584.307692	47.75	74.00	26.25	H	12.8	34.95
14935.384615	51.73	74.00	22.27	V	15.3	36.43
16622.307692	54.65	74.00	19.35	H	19.0	35.65
17904.461539	56.24	74.00	17.76	H	21.8	34.44

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
8247.230769	34.53	54.00	19.47	H	6.8	27.73
10384.153846	36.52	54.00	17.48	V	10.2	26.32
12584.307692	37.64	54.00	16.36	H	12.8	24.84
14935.384615	41.02	54.00	12.98	V	15.3	25.72
16622.307692	44.05	54.00	9.95	H	19.0	25.05
17904.461539	45.76	54.00	8.24	H	21.8	23.96

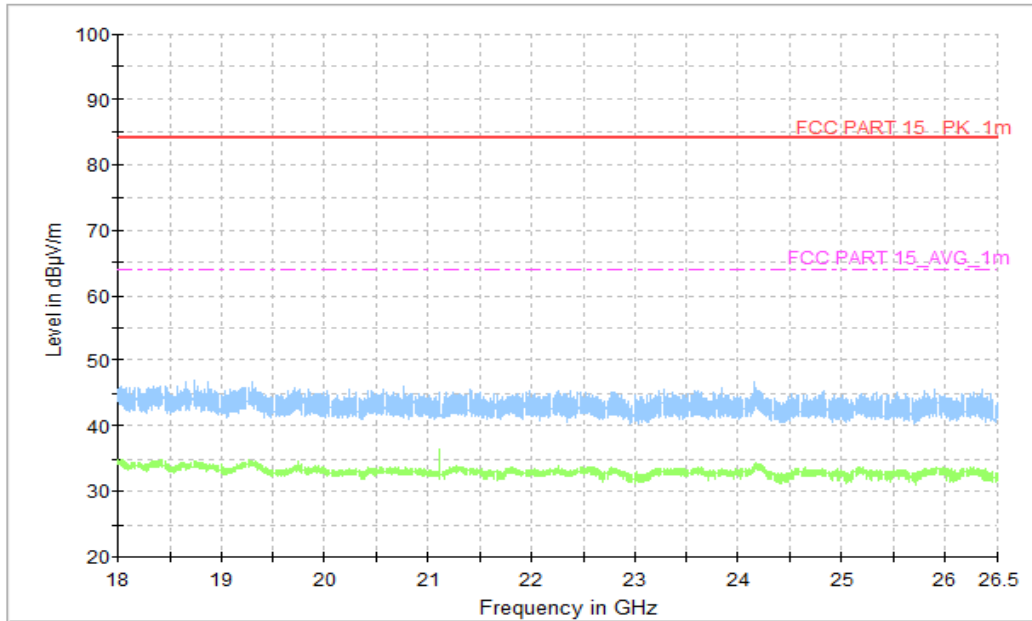


Figure A.1.35. Radiated Emission (Data Transfer: PC TO EUT, 18GHz to 26.5GHz)

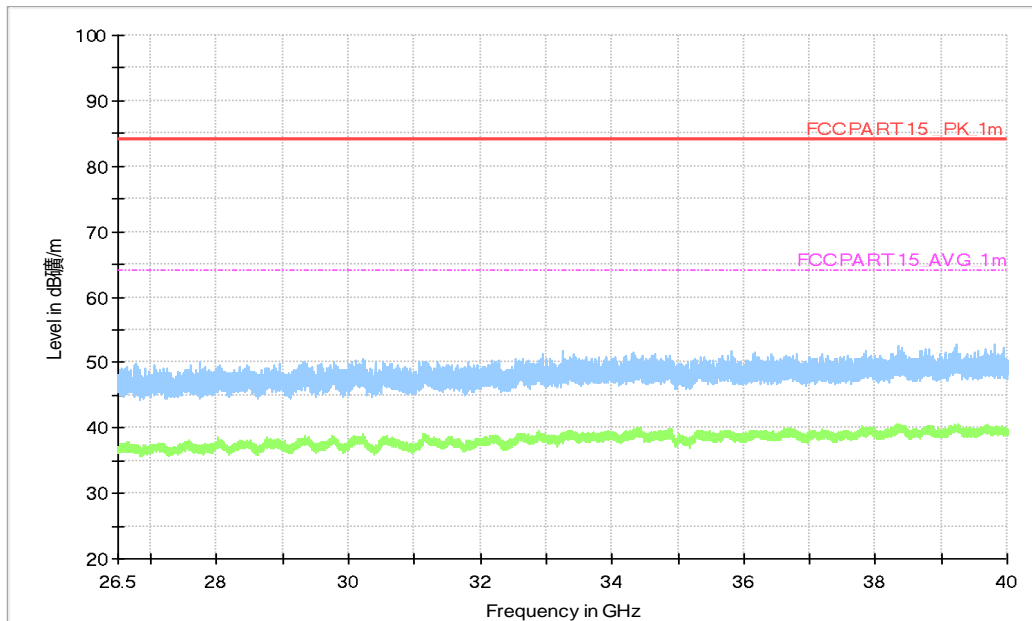


Figure A.1.36. Radiated Emission (Data Transfer: PC TO EUT, 26.5GHz to 40GHz)

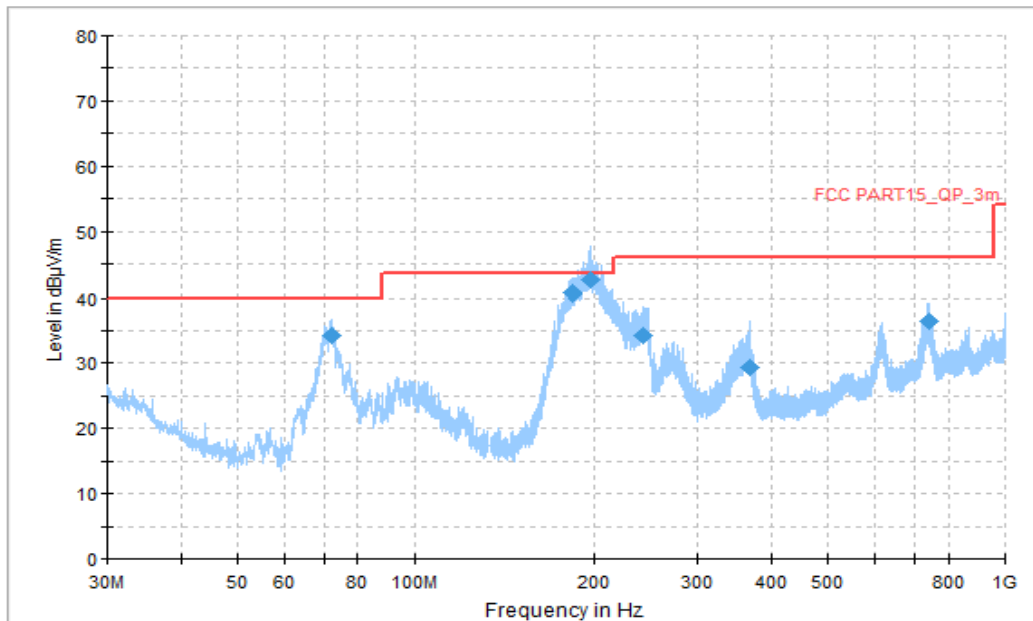


Figure A.1.37. Radiated Emission (Data Transfer: EUT TO PC, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
72.033333	34.26	40.00	5.74	H	-20	54.26
184.337778	40.68	43.52	2.84	H	-16	56.68
197.055556	42.48	43.52	1.04	H	-16	58.48
243.076667	34.31	46.02	11.71	H	-14	48.31
367.560000	29.40	46.02	16.62	H	-9	38.4
743.327222	36.44	46.02	9.58	V	0	36.44

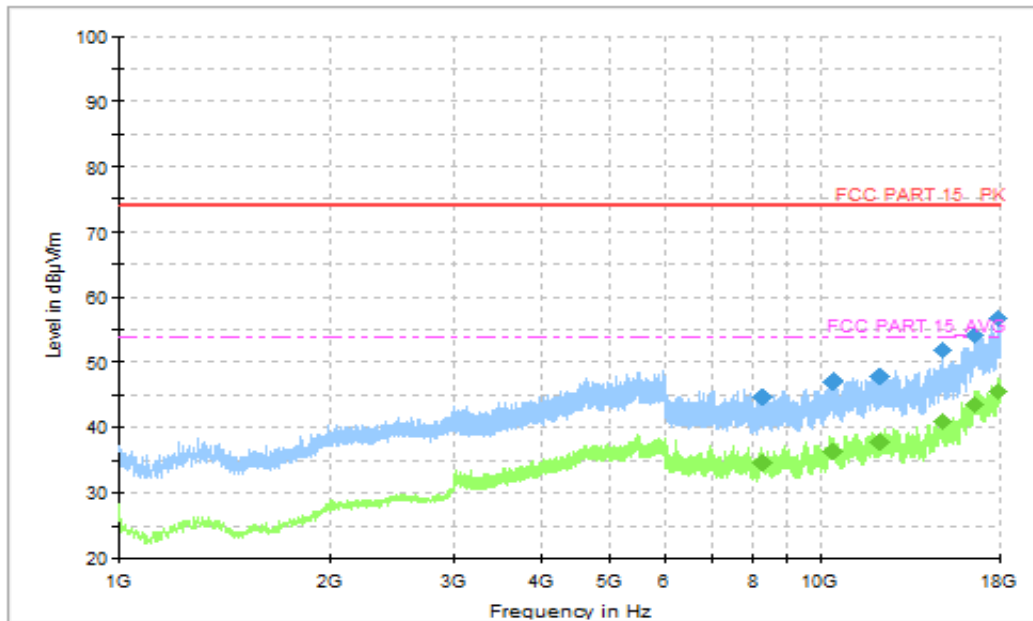


Figure A.1.38. Radiated Emission (Data Transfer: EUT TO PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
8238.000000	44.60	74.00	29.40	V	6.8	37.80
10396.615385	47.24	74.00	26.76	H	10.1	37.14
12139.384615	47.97	74.00	26.03	V	12.6	35.37
14939.076923	51.73	74.00	22.27	H	15.3	36.43
16546.153846	54.30	74.00	19.70	H	18.5	35.8
17892.923077	56.66	74.00	17.34	V	21.8	34.86

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
8238.000000	34.60	54.00	19.40	V	6.8	27.80
10396.615385	36.47	54.00	17.53	H	10.1	26.37
12139.384615	37.75	54.00	16.25	V	12.6	25.15
14939.076923	41.09	54.00	12.91	H	15.3	25.79
16546.153846	43.39	54.00	10.61	H	18.5	24.89
17892.923077	45.75	54.00	8.25	V	21.8	23.95

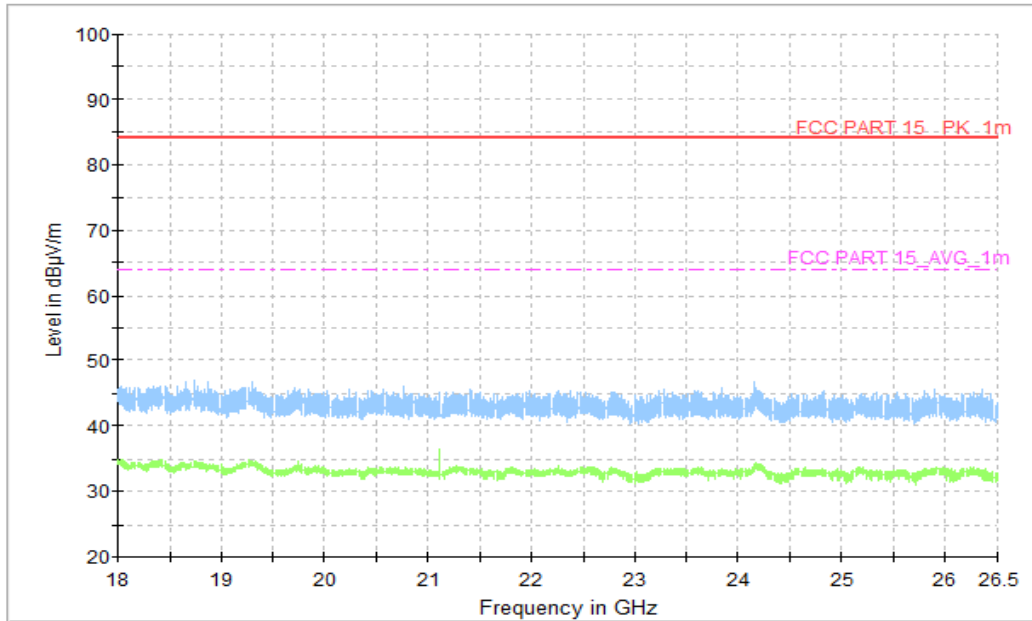


Figure A.1.39. Radiated Emission (Data Transfer: EUT TO PC, 18GHz to 26.5GHz)

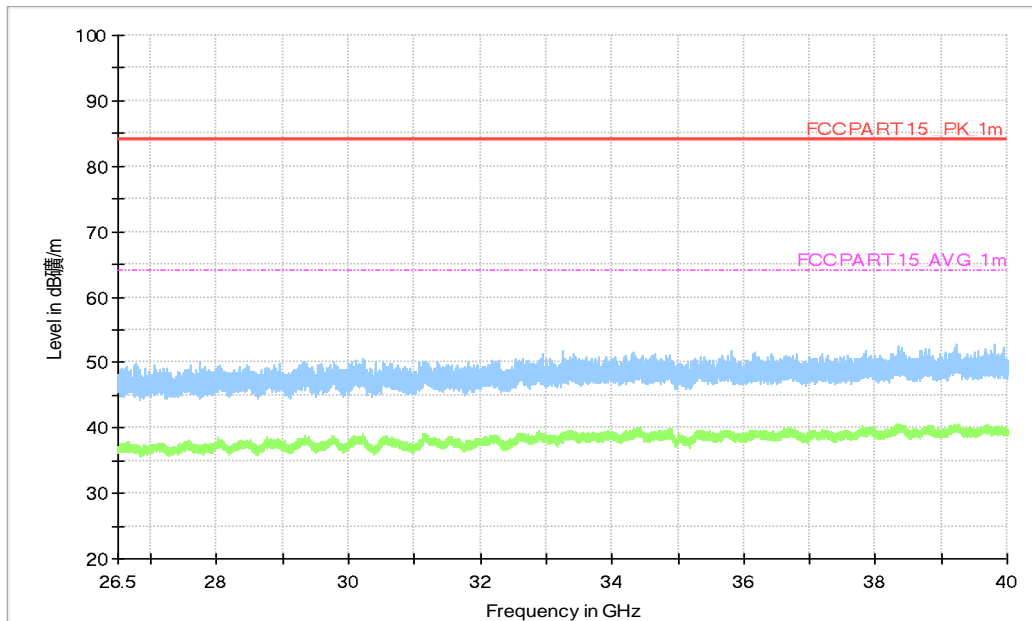


Figure A.1.40. Radiated Emission (Data Transfer: EUT TO PC, 26.5GHz to 40GHz)

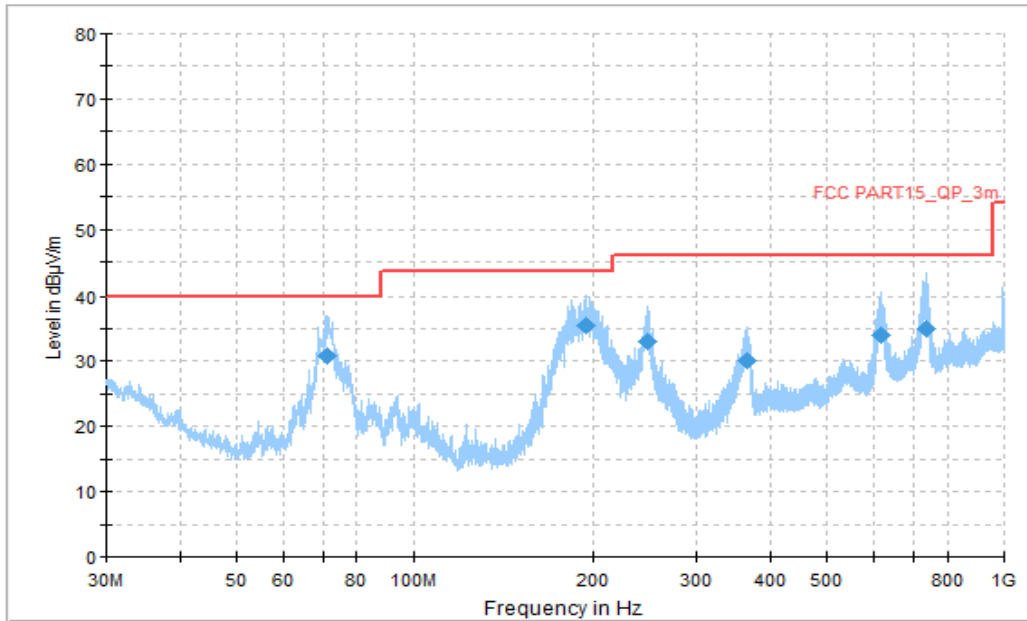


Figure A.1.41. Radiated Emission (Data Transfer: PC TO TF, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
71.278889	30.90	40.00	9.10	V	-20	50.90
194.091667	35.36	43.52	8.16	V	-16	51.36
247.064444	33.15	46.02	12.87	V	-14	47.15
365.620000	30.15	46.02	15.87	V	-9	39.15
618.790000	33.98	46.02	12.04	V	-2	35.98
737.561111	35.00	46.02	11.02	V	0	35.00

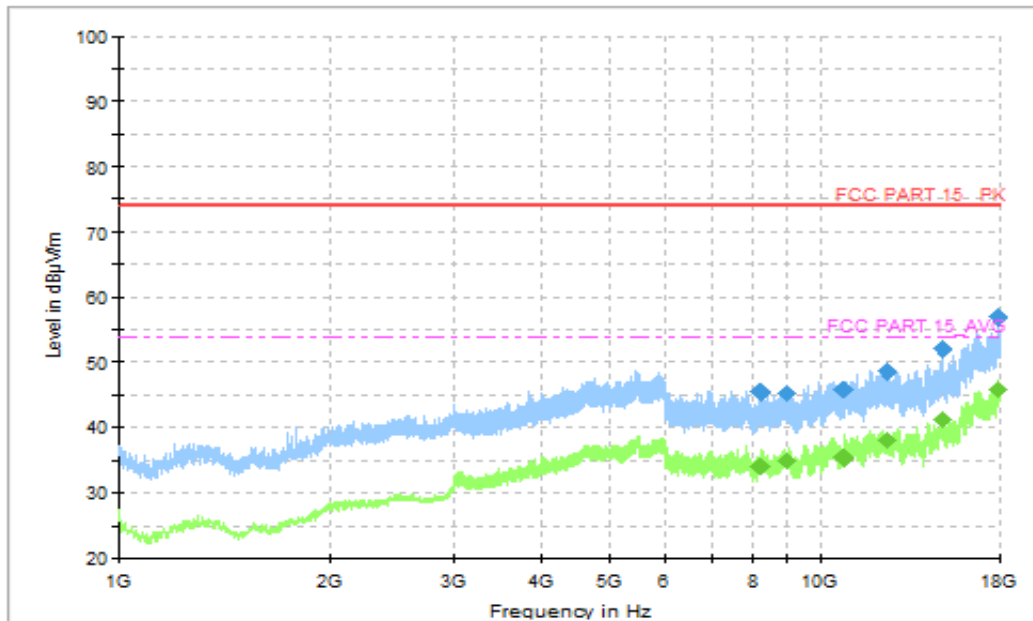


Figure A.1.42. Radiated Emission (Data Transfer: PC TO TF, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
8226.000000	45.44	74.00	28.56	V	6.8	38.64
8986.153846	45.32	74.00	28.68	V	7.5	37.82
10796.307692	45.86	74.00	28.14	H	9.7	36.16
12464.307692	48.57	74.00	25.43	H	12.8	35.77
14935.846154	52.05	74.00	21.95	V	15.3	36.75
17918.307692	56.86	74.00	17.14	V	21.7	35.16

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
8226.000000	34.10	54.00	19.90	V	6.8	27.30
8986.153846	34.81	54.00	19.19	V	7.5	27.31
10796.307692	35.53	54.00	18.47	H	9.7	25.83
12464.307692	38.10	54.00	15.90	H	12.8	25.30
14935.846154	41.29	54.00	12.71	V	15.3	25.99
17918.307692	45.88	54.00	8.12	V	21.7	24.18

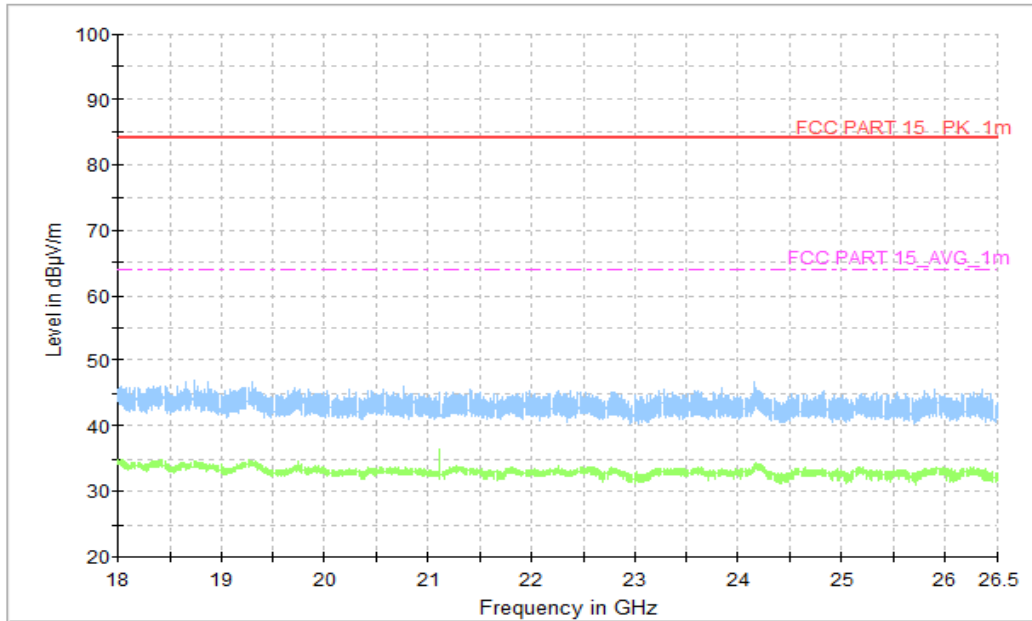


Figure A.1.43. Radiated Emission (Data Transfer: PC TO TF, 18GHz to 26.5GHz)

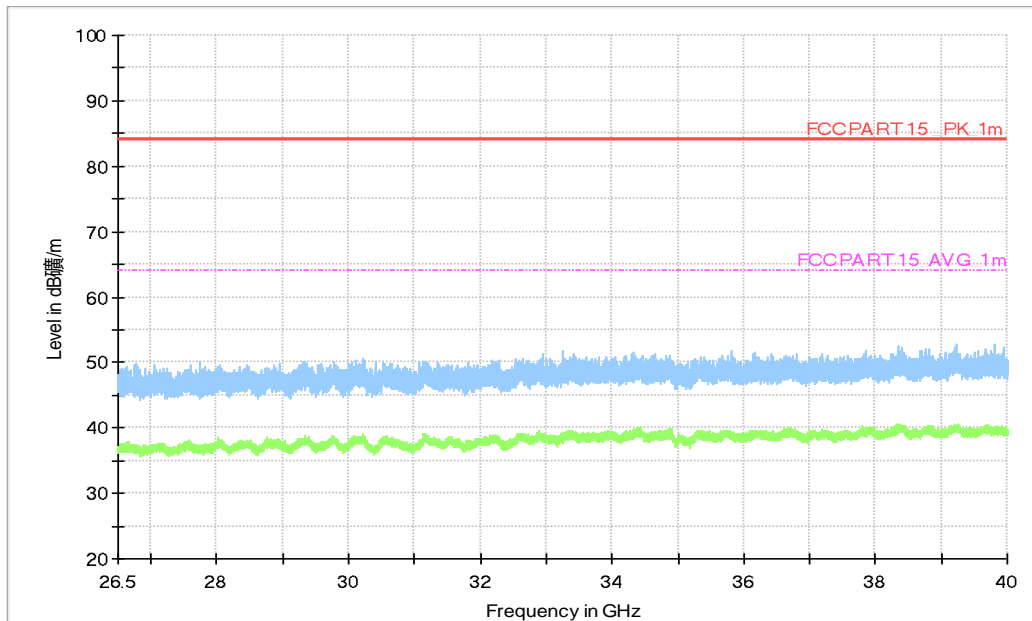


Figure A.1.44. Radiated Emission (Data Transfer: PC TO TF, 26.5GHz to 40GHz)

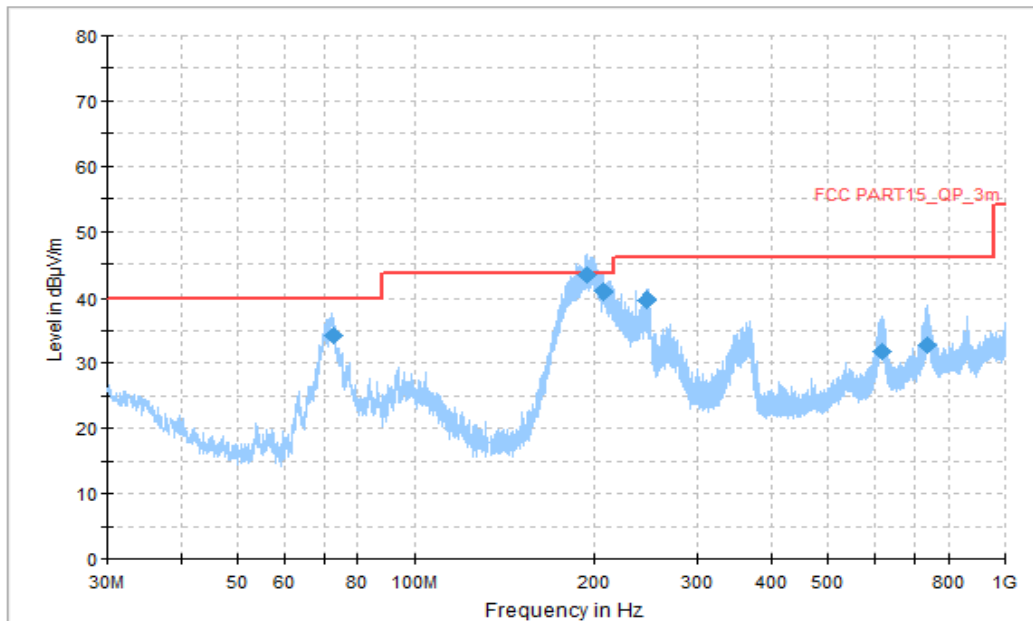


Figure A.1.45. Radiated Emission (Data Transfer: TF TO PC, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
72.572222	34.33	40.00	5.67	V	-20	54.33
194.468889	43.39	43.52	0.13	H	-16	59.39
207.941111	40.97	43.52	2.55	H	-16	56.97
246.579444	39.61	46.02	6.41	H	-14	53.61
616.365000	31.68	46.02	14.34	V	-2	33.68
739.608889	32.70	46.02	13.32	V	0	32.70

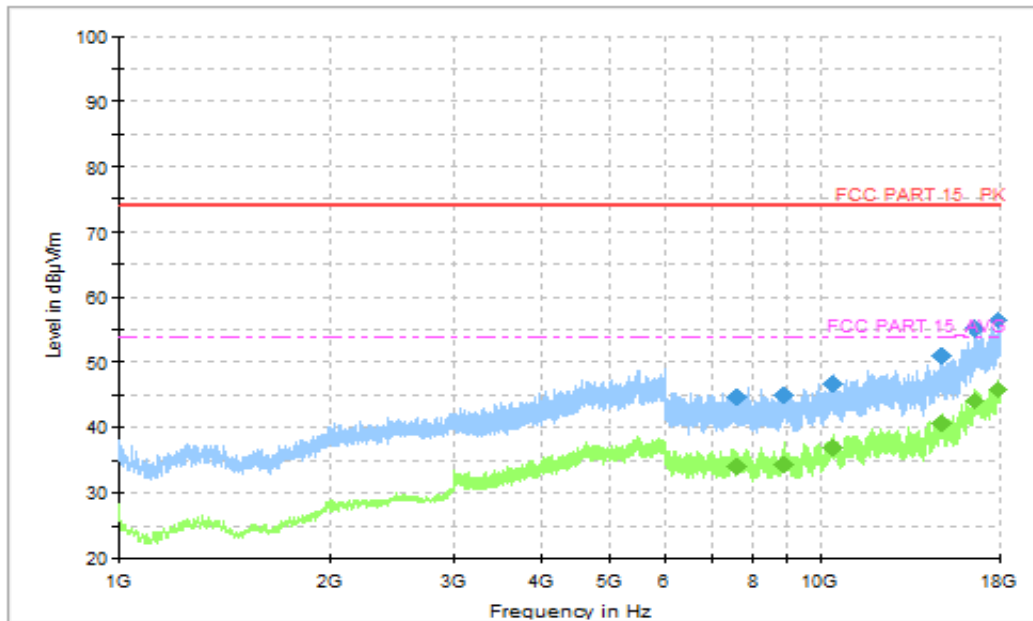


Figure A.1.46. Radiated Emission (Data Transfer: TF TO PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
7602.000000	44.72	74.00	29.28	V	6.6	38.12
8859.230769	45.07	74.00	28.93	H	7.3	37.77
10437.230769	46.70	74.00	27.30	V	9.8	36.90
14911.846154	51.12	74.00	22.88	H	15.3	35.82
16585.846154	55.12	74.00	18.88	V	18.8	36.32
17899.384615	56.51	74.00	17.49	H	21.8	34.71

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
7602.000000	34.18	54.00	19.82	V	6.6	27.58
8859.230769	34.39	54.00	19.61	H	7.3	27.09
10437.230769	36.86	54.00	17.14	V	9.8	27.06
14911.846154	40.92	54.00	13.08	H	15.3	25.62
16585.846154	44.19	54.00	9.81	V	18.8	25.39
17899.384615	45.95	54.00	8.05	H	21.8	24.15

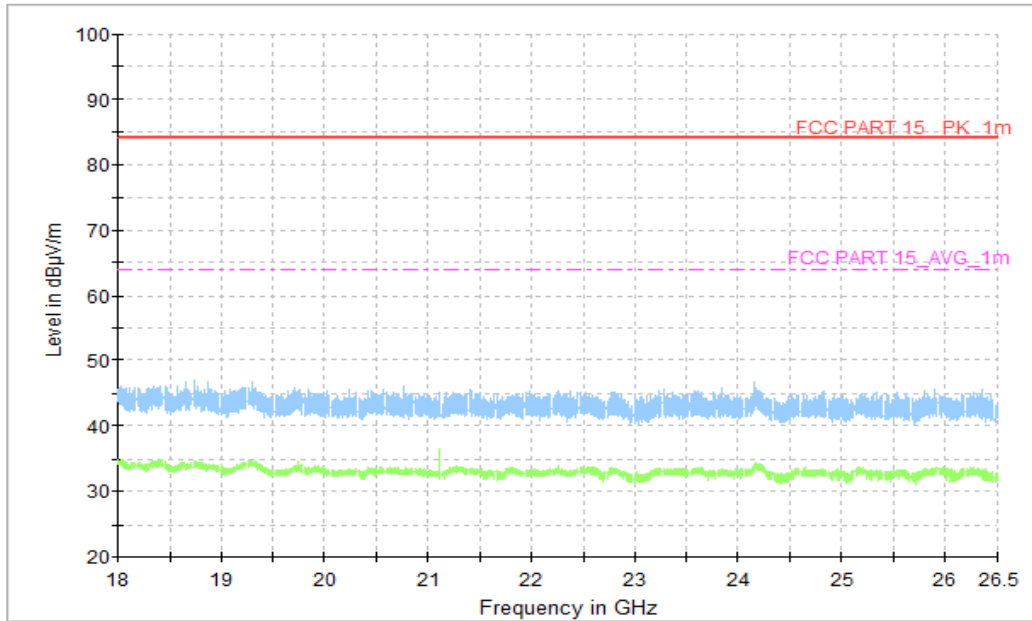


Figure A.1.47. Radiated Emission (Data Transfer: TF TO PC, 18GHz to 26.5GHz)

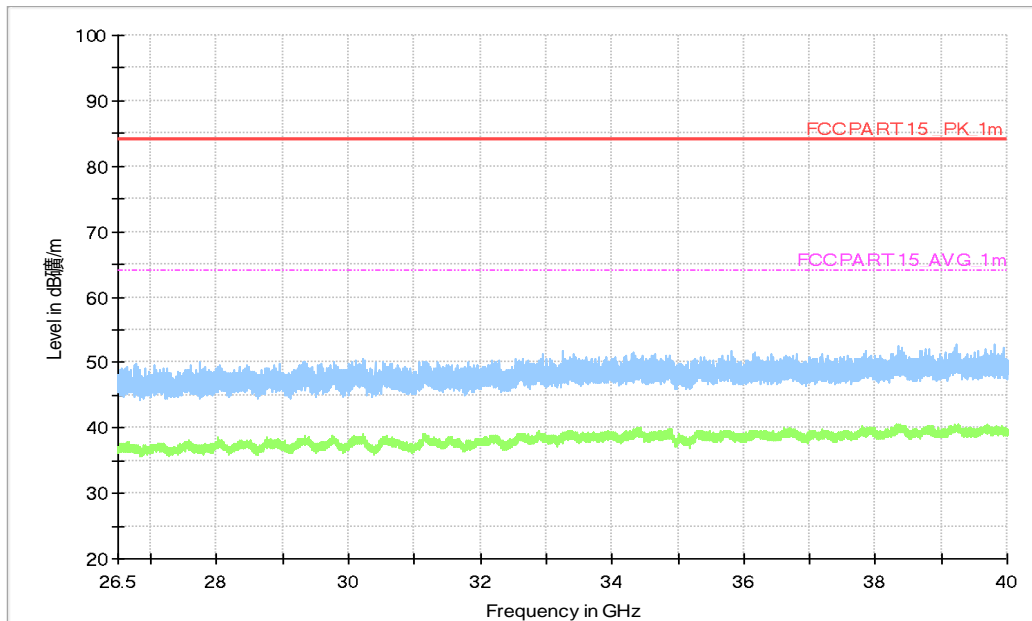


Figure A.1.48. Radiated Emission (Data Transfer: TF TO PC, 26.5GHz to 40GHz)

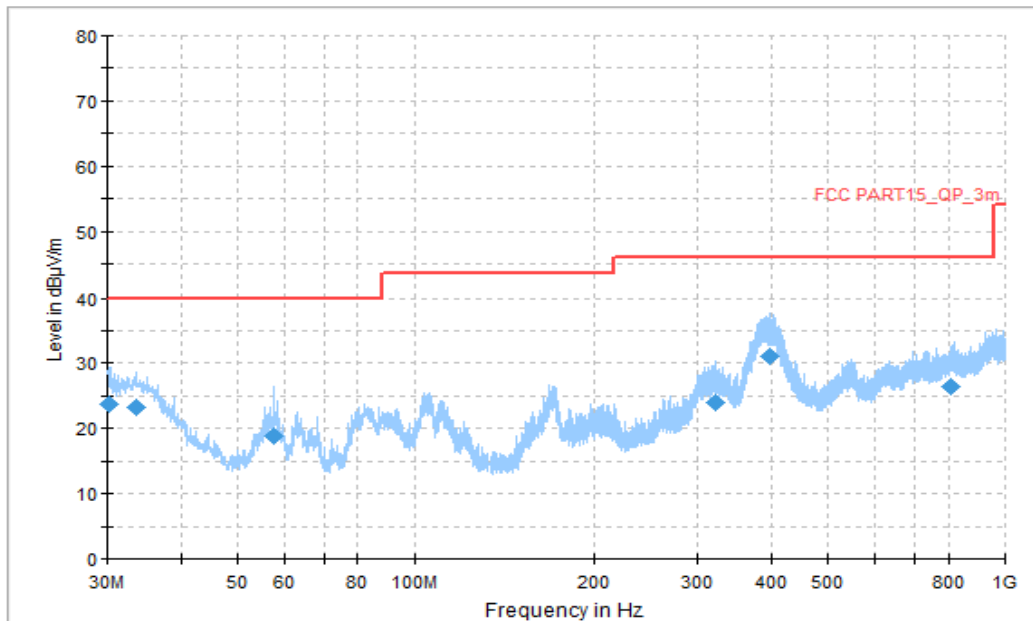


Figure A.1.49. Radiated Emission (Camera, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
30.107778	23.62	40.00	16.38	V	-11	34.62
33.664444	23.35	40.00	16.65	V	-13	36.35
57.429444	18.84	40.00	21.16	V	-20	38.84
321.754444	23.99	46.02	22.03	H	-11	34.99
398.061111	31.11	46.02	14.91	H	-7	38.11
806.431111	26.39	46.02	19.63	H	1	25.39

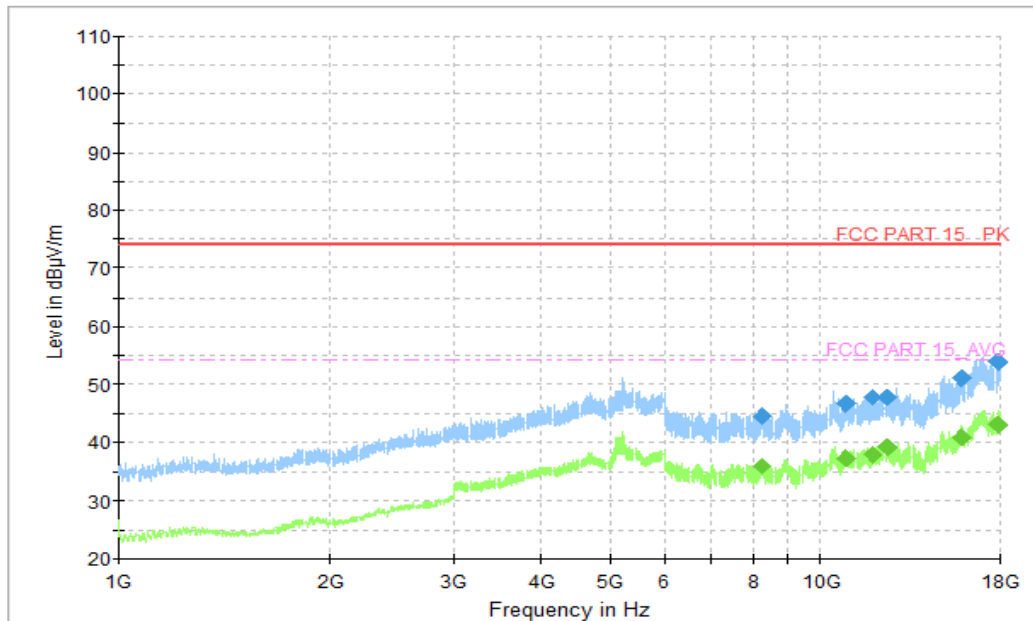


Figure A.1.50. Radiated Emission (Camera, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
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)	P _{Mea} (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

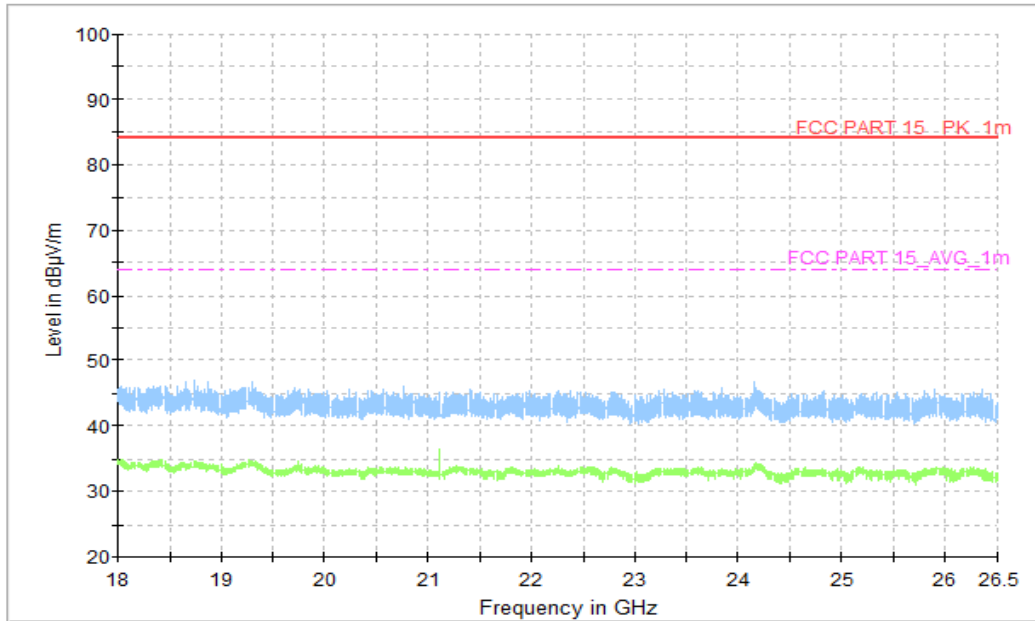


Figure A.1.51. Radiated Emission (Camera, 18GHz to 26.5GHz)

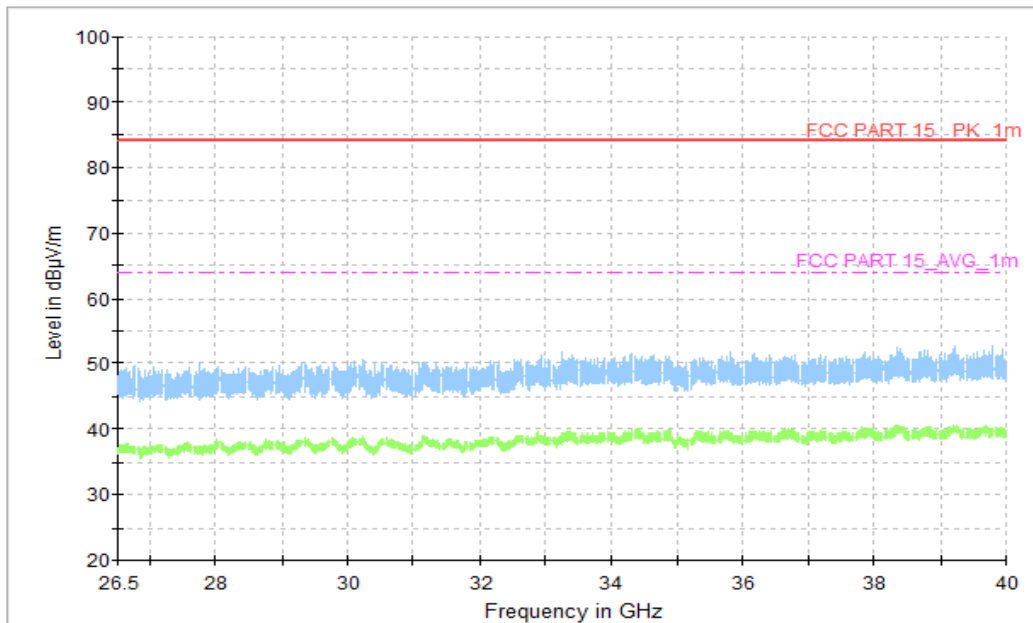


Figure A.1.52. Radiated Emission (Camera, 26.5GHz to 40GHz)



A.2 Conducted Emission (§15.107(a))

Reference

FCC: Part 15.107(a)

IC: ICES-003 section 6.1.

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.

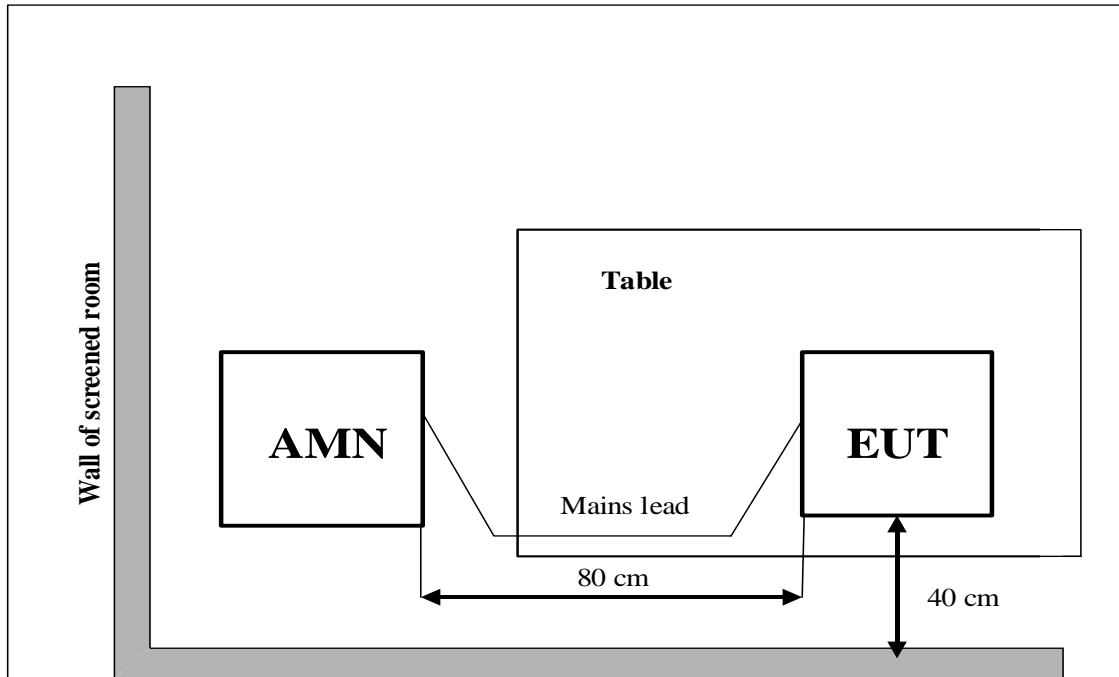
Data Transfer: The model of the PC is Lenovo ThinkPad T480, and the serial number of the PC is PF-13LW0C. The EUT is connected to a PC for transmitting data. The software is used to let the PC keep on copying data to EUT or TF Card, reading and erasing the data after copy action was finished.

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

$$\text{QuasiPeak(dB}\mu\text{V) /Average(dB}\mu\text{V) =PMea+Corr}$$

Where

Corr: PathLoss + Voltage Division Factor

PMea: Measurement result on receiver.

Video Player

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT09aa/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.

Camera

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
			UT09aa/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.

Data Transfer

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
			UT09aa/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.

Video Player

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
			UT09aa/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.

Camera

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
			UT09aa/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.



Data Transfer

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
			UT09aa/Set.2	
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.

Camera

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
			UT15aa/Set.1	
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.

Camera

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
			UT15aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.8.	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

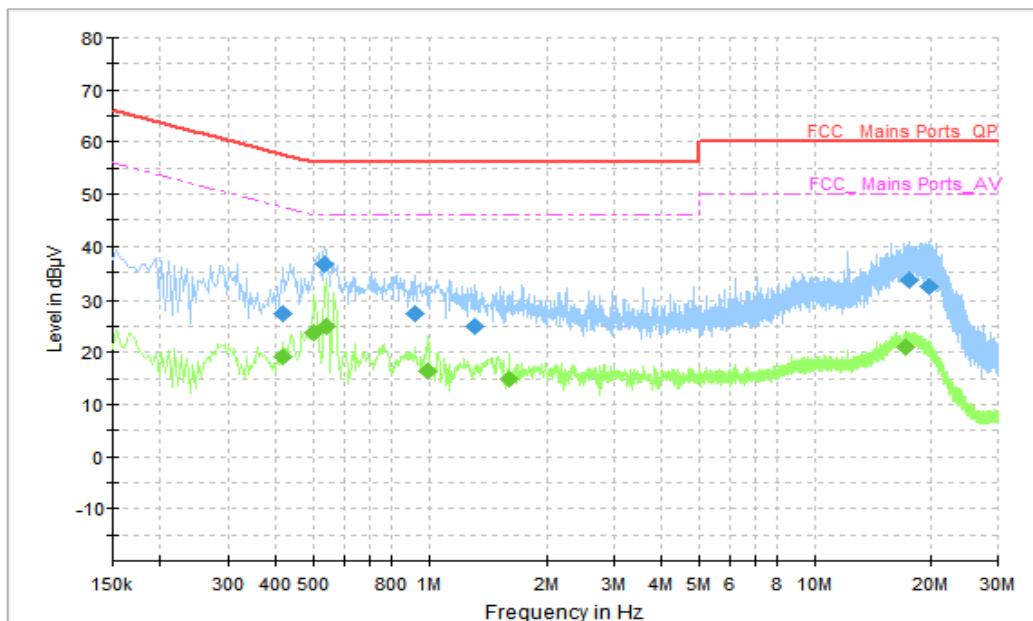


Figure A.2.1. Conducted Emission (Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.418000	27.53	57.49	29.96	L1	10	17.53
0.534000	36.56	56.00	19.44	L1	10	26.56
0.918000	27.53	56.00	28.47	L1	10	17.53
1.322000	24.88	56.00	31.12	N	10	14.88
17.646000	33.61	60.00	26.39	N	10	23.61
19.822000	32.22	60.00	27.78	N	10	22.22

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.418000	19.10	47.49	28.38	L1	10	9.10
0.502000	23.76	46.00	22.24	L1	10	13.76
0.542000	24.99	46.00	21.01	L1	10	14.99
0.994000	16.32	46.00	29.68	L1	10	6.32
1.598000	14.89	46.00	31.11	L1	10	4.89
17.166000	21.01	50.00	28.99	N	10	11.01

AC Input Port/ Voltage: 120V/60Hz

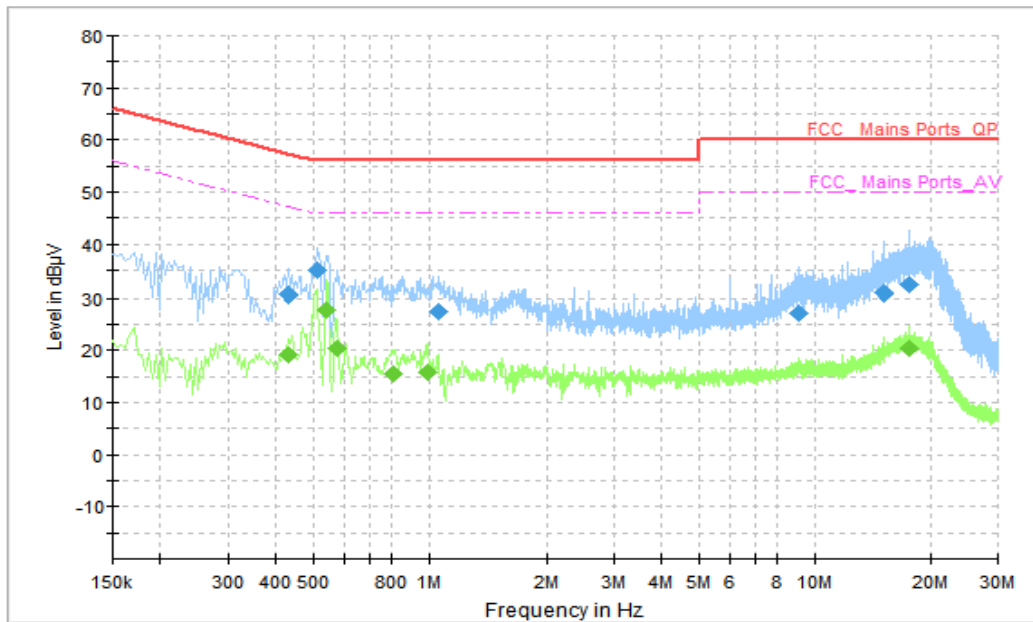


Figure A.2.2. Conducted Emission (Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.430000	30.39	57.25	26.87	N	10	20.39
0.514000	35.08	56.00	20.92	L1	10	25.08
1.054000	27.40	56.00	28.60	N	10	17.40
9.118000	27.10	60.00	32.90	L1	10	17.10
15.058000	30.89	60.00	29.12	L1	10	20.89
17.714000	32.44	60.00	27.56	L1	10	22.44

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.430000	19.06	47.25	28.19	N	10	9.06
0.542000	27.76	46.00	18.24	N	10	17.76
0.578000	20.22	46.00	25.78	N	10	10.22
0.810000	15.37	46.00	30.63	N	10	5.37
0.990000	15.87	46.00	30.13	N	10	5.87
17.714000	20.49	50.00	29.51	L1	10	10.49

AC Input Port/ Voltage: 120V/60Hz

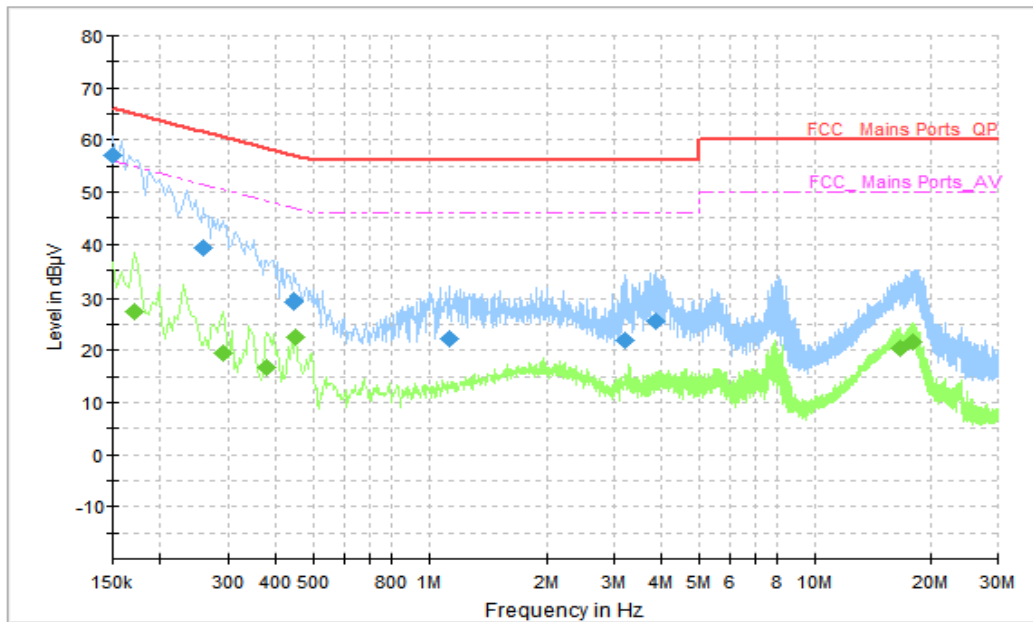


Figure A.2.3. Conducted Emission (Data Transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.150000	56.97	66.00	9.03	L1	10	46.97
0.258000	39.43	61.50	22.07	L1	10	29.43
0.446000	29.35	56.95	27.60	N	10	19.35
1.134000	22.28	56.00	33.72	L1	10	12.28
3.210000	21.94	56.00	34.06	N	10	11.94
3.846000	25.70	56.00	30.30	L1	10	15.70

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.170000	27.51	54.96	27.45	N	8	19.51
0.290000	19.48	50.52	31.04	N	10	9.48
0.378000	16.68	48.32	31.64	L1	10	6.68
0.450000	22.45	46.88	24.43	L1	10	12.45
16.710000	20.25	50.00	29.75	N	10	10.25
18.058000	21.49	50.00	28.51	N	10	11.49

AC Input Port/ Voltage: 240V/60Hz

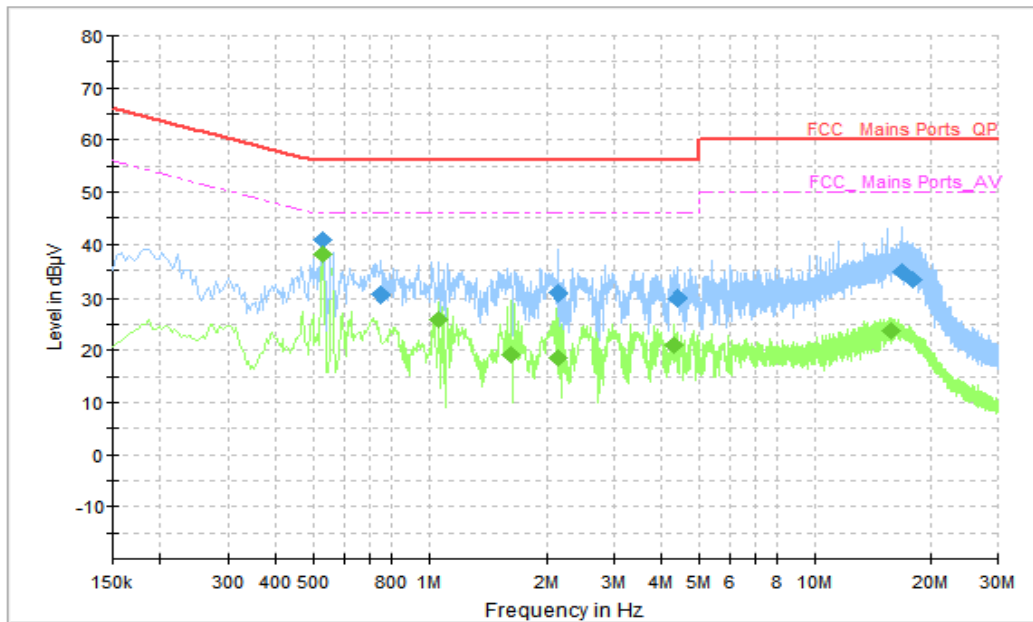


Figure A.2.4. Conducted Emission (Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.526000	40.78	56.00	15.22	L1	10	30.78
0.750000	30.60	56.00	25.40	N	10	20.6
2.146000	30.67	56.00	25.33	N	10	20.67
4.386000	29.88	56.00	26.12	N	10	19.88
16.842000	34.67	60.00	25.33	N	10	24.67
17.934000	33.20	60.00	26.80	N	10	23.20

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.526000	38.14	46.00	7.86	L1	10	28.14
1.058000	25.82	46.00	20.18	L1	10	15.82
1.614000	19.04	46.00	26.96	L1	10	9.04
2.146000	18.62	46.00	27.38	L1	10	8.62
4.318000	20.95	46.00	25.05	L1	10	10.95
15.762000	23.70	50.00	26.30	N	10	13.70

AC Input Port/ Voltage: 240V/60Hz

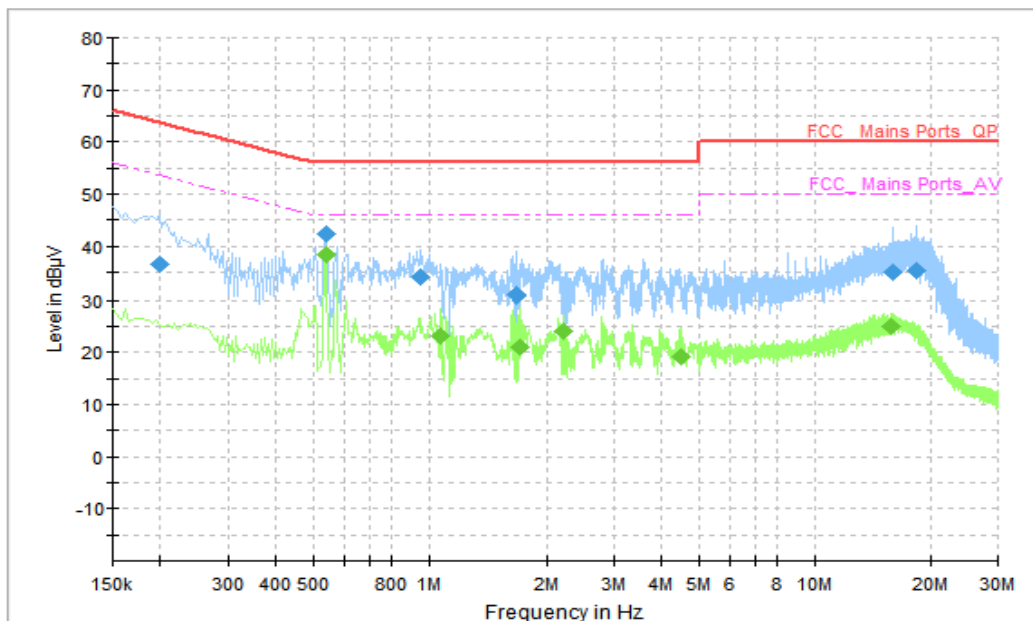


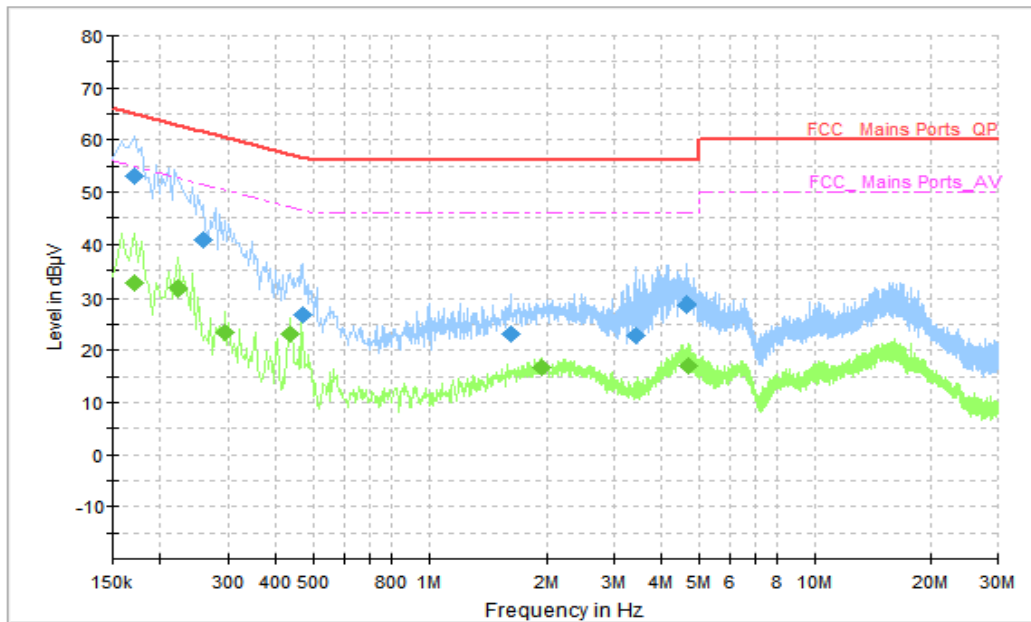
Figure A.2.5. Conducted Emission (Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.198000	36.72	63.69	26.97	N	9	27.72
0.538000	42.43	56.00	13.57	L1	10	32.43
0.950000	34.11	56.00	21.89	N	10	24.11
1.674000	30.74	56.00	25.26	N	10	20.74
16.046000	34.91	60.00	25.09	N	10	24.91
18.482000	35.28	60.00	24.72	N	10	25.28

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.538000	38.41	46.00	7.59	L1	10	28.41
1.074000	22.97	46.00	23.03	L1	10	12.97
1.714000	20.90	46.00	25.10	L1	10	10.90
2.226000	24.14	46.00	21.86	L1	10	14.14
4.482000	19.01	46.00	26.99	L1	10	9.01
15.834000	25.06	50.00	24.94	N	10	15.06

AC Input Port/ Voltage: 240V/60Hz

Figure A.2.6. Conducted Emission (Data Transfer)
Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.170000	53.11	64.96	11.85	N	8	45.11
0.258000	40.91	61.50	20.59	N	10	30.91
0.470000	26.65	56.51	29.86	N	10	16.65
1.610000	23.25	56.00	32.75	L1	10	13.25
3.402000	22.95	56.00	33.05	L1	10	12.95
4.626000	28.65	56.00	27.35	N	10	18.65

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.170000	32.61	54.96	22.35	N	8	24.61
0.222000	31.57	52.74	21.17	L1	10	21.57
0.294000	23.56	50.41	26.85	L1	10	13.56
0.434000	23.10	47.18	24.08	L1	10	13.10
1.942000	16.82	46.00	29.18	N	10	6.82
4.690000	17.04	46.00	28.96	L1	10	7.04

AC Input Port/ Voltage: 120V/60Hz

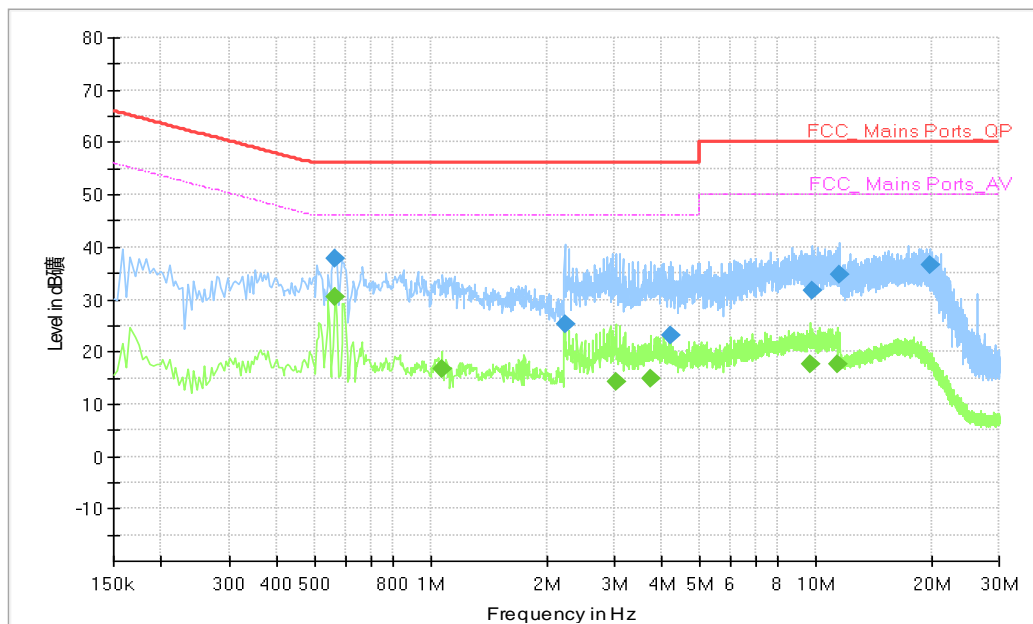


Figure A.2.7. Conducted Emission (Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.566000	37.90	56.00	18.10	L1	10	27.90
2.230000	25.32	56.00	30.68	L1	10	15.32
4.202000	23.26	56.00	32.74	L1	10	13.26
9.782000	31.73	60.00	28.27	L1	10	21.73
11.530000	34.77	60.00	25.23	L1	10	24.77
19.822000	36.53	60.00	23.47	L1	10	26.53

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.566000	30.59	46.00	15.41	N	10	20.59
1.070000	16.63	46.00	29.37	L1	10	6.63
3.042000	14.24	46.00	31.76	L1	10	4.24
3.742000	14.96	46.00	31.04	L1	10	4.96
9.738000	17.69	50.00	32.31	L1	10	7.69
11.382000	17.61	50.00	32.39	L1	10	7.61

AC Input Port/ Voltage: 240V/60Hz

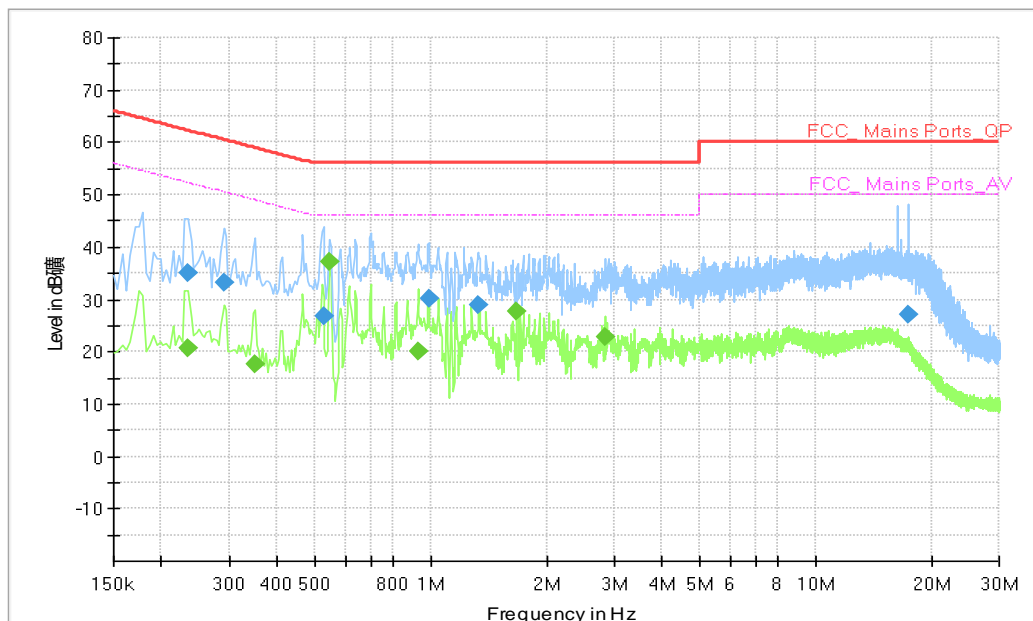


Figure A.2.8. Conducted Emission (Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.234000	35.05	62.31	27.26	L1	10	25.05
0.290000	33.10	60.52	27.42	L1	10	23.1
0.526000	26.77	56.00	29.23	L1	10	16.77
0.990000	30.03	56.00	25.97	L1	10	20.03
1.326000	29.06	56.00	26.94	L1	10	19.06
17.498000	27.24	60.00	32.76	N	10	17.24

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.234000	20.59	52.31	31.72	L1	10	10.59
0.350000	17.64	48.96	31.33	L1	10	7.64
0.546000	37.10	46.00	8.90	N	10	27.10
0.930000	20.20	46.00	25.80	L1	10	10.20
1.674000	27.77	46.00	18.23	N	10	17.77
2.846000	22.76	46.00	23.24	N	10	12.76

END OF REPORT