



TEST REPORT

No.24T04N002517-007-EMC

for

Datalogic S.r.l.

MOBILE COMPUTER / BARCODE READER

Model Name: AELWF

With

Hardware Version: V3

Software Version: 1.15.000.20241025 release-keys

FCC ID:U4G-AELWF

Issued Date: 2024-11-29

Designation Number: CN1210

Note:

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

Test Laboratory:

SAICT, Shenzhen Academy of Information and Communications Technology

Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen,
Guangdong, P. R. China. 518000.

Tel: +86(0)755-33322000, Fax: +86(0)755-33322001

Email: yewu@saict.ac.cn www.saict.ac.cn



No. 24T04N002517-007-EMC

REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04N002517-007-EMC	Rev.0	1st edition	2024-11-29

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
8. MEASURING APPARATUS UTILIZED.....	12
9. TEST ACCESSORY UTILIZED.....	13
10. MEASURING SOFTWARE	13
ANNEX A: MEASUREMENT RESULTS.....	14
A.1 RADIATED EMISSION (§ 15.109(A)).....	14
A.2 CONDUCTED EMISSION (§ 15.107(A)).....	72

1. SUMMARY OF TEST REPORT

1.1. Test Items

Description	MOBILE COMPUTER / BARCODE READER
Model Name	AELWF
Applicant's name	Datalogic S.r.l.
Manufacturer's Name	Datalogic S.r.l.

1.2. Test Standards

FCC Part 15, Subpart B (10-1-2023 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

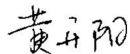
Address: EMC Lab,Building G, Shenzhen International Innovation Center,
No.1006 Shennan Road, Futian District, Shenzhen, Guangdong,
China

1.5. Project data

Testing Start Date: 2024-10-23

Testing End Date: 2024-11-21

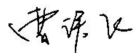
1.6. Signature



Huang Kaiyang
(Prepared this test report)



Huang Yuqing
(Reviewed this test report)



Cao Junfei
(Approved this test report)



2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: Datalogic S.r.l.
Address: Via San Vitalino 13CALDERARA DI RENO, BO 40012 Italy
Contact Ruggero Cacioppo
Email ruggero.cacioppo@datalogic.com
Tel. +39 0516765611
Fax /

2.2. Manufacturer Information

Company Name: Datalogic S.r.l.
Address: Via San Vitalino 13CALDERARA DI RENO, BO 40012 Italy
Contact Ruggero Cacioppo
Email ruggero.cacioppo@datalogic.com
Tel. +39 0516765611
Fax /

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT

(AE)

3.1. About EUT

Description	MOBILE COMPUTER / BARCODE READER
Model Name	AELWF
FCC ID	U4G-AELWF
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
UT03aa	X24L00220	V3	1.15.000.20241025 release-keys	2024-10-23
UT11aa	X24L00689	V3	1.15.000.20241025 release-keys	2024-10-28

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

3.3. Internal Identification of AE

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

AE1

Model	AEL-BY-184
Manufacturer	TWS TECHNOLOGY (GUANGZHOU) LIMITED
Capacity	4000mAh
Nominal Voltage	3.87V

AE2-1

Model	2ACP0183C
Manufacturer	Datalogic

AE2-2

Model	SGVSSDETH
Manufacturer	Datalogic

AE2-3

Model	SGVSSDWLC
Manufacturer	Datalogic



AE3

Model 94ACC0327
Manufacturer Datalogic

AE4-1

Model /
Manufacturer /

AE4-2

Model TWS
Manufacturer /

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

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

AE: ancillary equipment

AE2, AE3, AE4: Just for testing.

3.4. EUT Set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT+AE1+AE2-1+AE3	
Set.2	EUT+AE1+AE4-1	
Set.3	EUT+AE1+AE3+PC+AE4-2	
Set.4	EUT+AE1+AE3+PC	
Set.5	EUT+AE1+AE2-2+AE3+PC	
Set.6	EUT+AE1+AE2-3+AE3	
Set.7	EUT+AE1+AE2-1+AE3+AE4-2	

3.5. General Description

The Equipment Under Test (EUT) is a model of MOBILE COMPUTER / BARCODE READER with internal antenna.

It has MP3, NFC, Wireless Power Transfer (WPT), Scanning, Camera, USB memory, Ethernet Connection, Bluetooth, Wi-Fi and Glove Mode functions.

It consists of normal options: Battery

Since subscribers often use EUT during charging, EUT is to be tested in accordance with “Fixed use” besides in accordance with “Portable use”.

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 also serves as a record of AELWF (Second supply), the tables below show all the differences between AELWF (Mains supply) and AELWF (Second supply).

Changes	AELWF (Mains supply)	AELWF (Second supply)
Memory	Supplier: Hynix	Supplier: Longsys

This report is based on the AELWF(Mains supply) as the main test.

AELWF(Second supply) the following tests need to be performed:

NO.	Test item	EUT ID	Operating mode
1	Radiated Emission	UT11aa	Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: PC TO EUT

Other results are cited from the initial 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	(10-1-2023 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	2024.11.22	1 year
2.	Test Receiver	ESCI	100702	R&S	2025.01.10	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2025.01.12	1 year
4.	Hybrid antenna	VULB 9163	330	Schwarzbeck	2027.04.21	3 years
5.	Horn Antenna	3117	00066577	ETS-Lindgren	2025.04.17	3 years
6.	LISN	ENV216	102067	R&S	2025.10.06	1 year
7.	Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2025.05.28	2 years
8.	Universal Radio Communication Tester	CMW500	152499	R&S	2025.07.11	1 year
9.	Horn Antenna	QSH-SL-18-2 6-S-20	17013	Q-par	2026.02.01	3 years
10.	Horn Antenna	QSH-SL-8-26- 40-K-20	17014	Q-par	2026.01.30	3 years



No. 24T04N002517-007-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	/	/

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)

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:

Bluetooth: The EUT is synchronized to a System Simulator (SS). The Rx channel number is 0.

Wi-Fi: The EUT is synchronized to System Simulator (SS).

NFC: The EUT turns on NFC function.

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

Wireless Power Transfer: Wireless power transfer is the transfer of energy between the EUT (wireless power source) and another EUT (wireless power client) through radio waves, with no electrical contact between the source and client devices, for the purpose of charging client devices wirelessly.

Glove mode: The EUT is operating in glove mode. In this mode, the touchscreen remains responsive to input from a gloved hand.

Scanning: The EUT is keeping on scanning barcode.

Ethernet Connection: EUT is connected to PC by unshielded Twisted Pair. After the EUT is allocated an IP address, a laptop is used to start a PING program to establish a communication link between this EUT and the laptop.

Charging via POGO PIN: The EUT is charging via pogo pin. In this mode, the device is connected to a charging dock or cable using pogo pins.

Display On: The EUT is keeping on playing a color bar video.

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

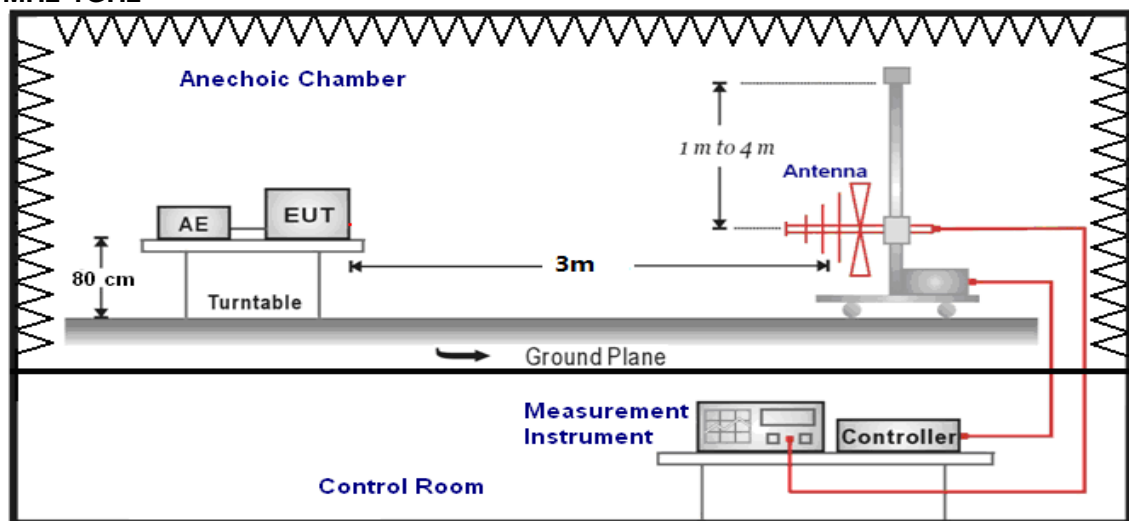
*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

A.1.4 Test Condition

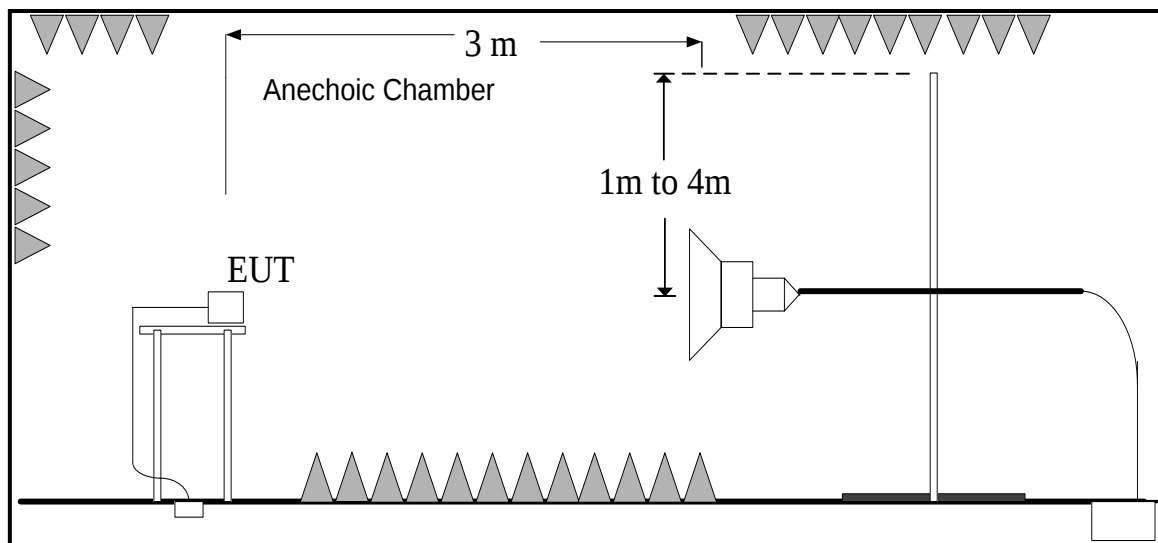
Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

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

Band 2.4GHz Wi-Fi+Bluetooth+Rear camera+Video Player+Charging

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/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
			UT03aa/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.	

Band 5GHz Wi-Fi+Bluetooth+headset+Front camera+microphone

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/Set.2	
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
			UT03aa/Set.2	
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.	

Band 6GHz Wi-Fi+Bluetooth+Bluetooth headset+Display on+Data Transfer

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/Set.3	
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
			UT03aa/Set.3	
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.	

Band 2.4GHz Wi-Fi+Bluetooth+NFC+Scanning+Data Transfer

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/Set.4	
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
			UT03aa/Set.4	
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.	

Band 2.4GHz Wi-Fi+Bluetooth+Scanning+Data Transfer

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/Set.4	
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
			UT03aa/Set.4	
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.	

Band 2.4GHz Wi-Fi+Bluetooth+NFC+Scanning+Data Transfer

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/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
			UT03aa/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.	

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Charging via POGO PIN+Ethernet Connection

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/Set.5	
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
			UT03aa/Set.5	
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.	

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data
Transfer: EUT TO PC

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/Set.5	
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
			UT03aa/Set.5	
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.	

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data
Transfer: PC TO EUT

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/Set.5	
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
			UT03aa/Set.5	
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.	

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data
Transfer: PC TO TF

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/Set.5	
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
			UT03aa/Set.5	
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.	

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data
Transfer: TF TO PC

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/Set.5	
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
			UT03aa/Set.5	
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.	

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Wireless Power Transfer

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/Set.6	
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
			UT03aa/Set.6	
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.	

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/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
			UT03aa/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.	

Band 2.4GHz Wi-Fi Idle+Bluetooth Idle+NFC Idle+Front Camera+Video Player+Data Transfer

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/Set.4	
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
			UT03aa/Set.4	
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.	

Band 5GHz Wi-Fi Idle+Bluetooth Idle+Front Camera+Video Player+Data Transfer

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT03aa/Set.4	
30-88	40.00	See Figure A.1.57.	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
			UT03aa/Set.4	
1000 to 18000	54.00	74.00	See Figure A.1.58.	P
18000 to 26500	63.54	83.54	See Figure A.1.59.	
26500 to 40000	63.54	83.54	See Figure A.1.60.	

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: PC TO EUT

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT11aa/Set.5	
30-88	40.00	See Figure A.1.61.	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.5	
1000 to 18000	54.00	74.00	See Figure A.1.62.	P
18000 to 26500	63.54	83.54	See Figure A.1.63.	
26500 to 40000	63.54	83.54	See Figure A.1.64.	

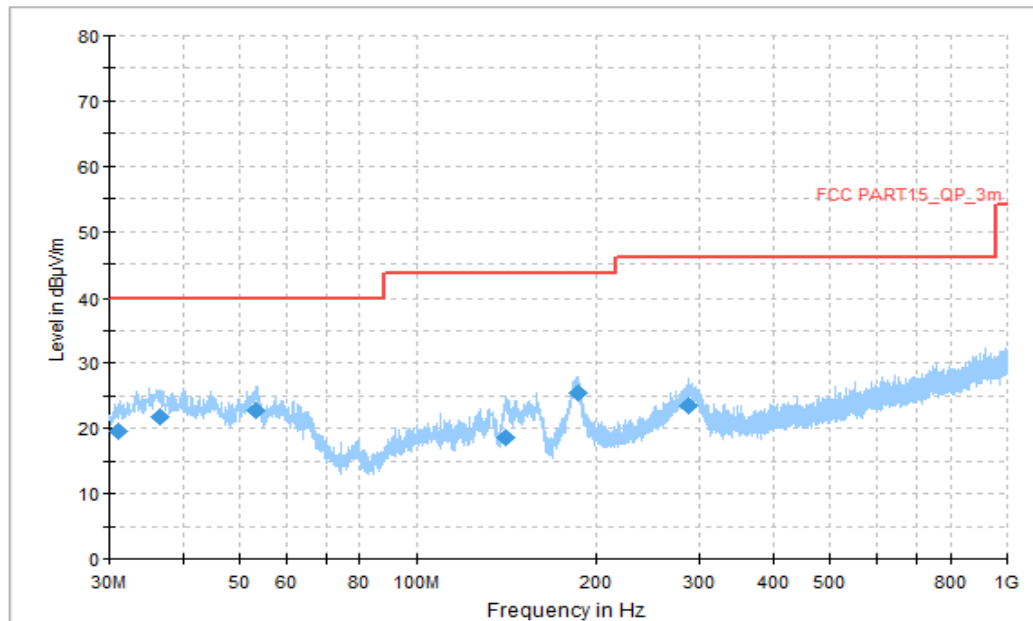


Figure A.1.1. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+Rear camera+Video Player+Charging, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
31.023889	19.48	40.00	20.52	V	-15.3	34.78
36.628333	21.68	40.00	18.32	V	-14.1	35.78
53.064444	22.80	40.00	17.20	V	-14.1	36.90
140.849444	18.63	43.52	24.89	V	-18.3	36.93
186.062222	25.55	43.52	17.97	H	-15.9	41.45
287.319444	23.57	46.02	22.45	H	-12.0	35.57

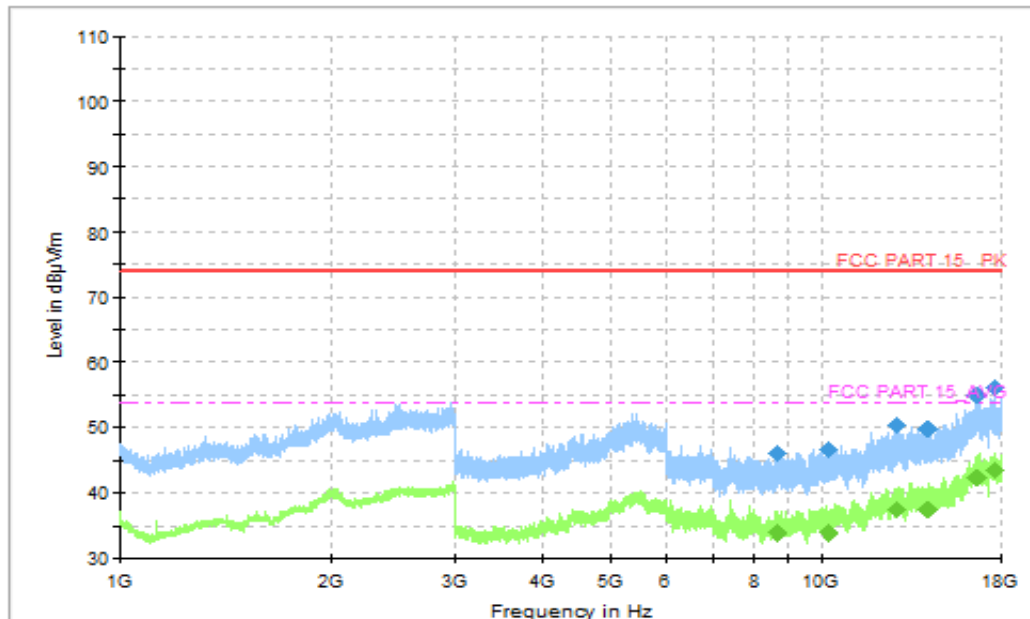


Figure A.1.2. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+Rear camera+Video Player+Charging, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8658.000000	46.03	74.00	27.97	V	7.2	38.83
10236.857143	46.67	74.00	27.33	V	9.3	37.37
12799.714286	50.32	74.00	23.68	V	12.8	37.52
14200.714286	49.89	74.00	24.11	H	13.3	36.59
16666.285714	54.94	74.00	19.06	V	19.0	35.94
17697.428571	56.09	74.00	17.91	V	20.6	35.49

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
8658.000000	46.03	74.00	27.97	V	7.2	38.83
10236.857143	46.67	74.00	27.33	V	9.3	37.37
12799.714286	50.32	74.00	23.68	V	12.8	37.52
14200.714286	49.89	74.00	24.11	H	13.3	36.59
16666.285714	54.94	74.00	19.06	V	19.0	35.94
17697.428571	56.09	74.00	17.91	V	20.6	35.49

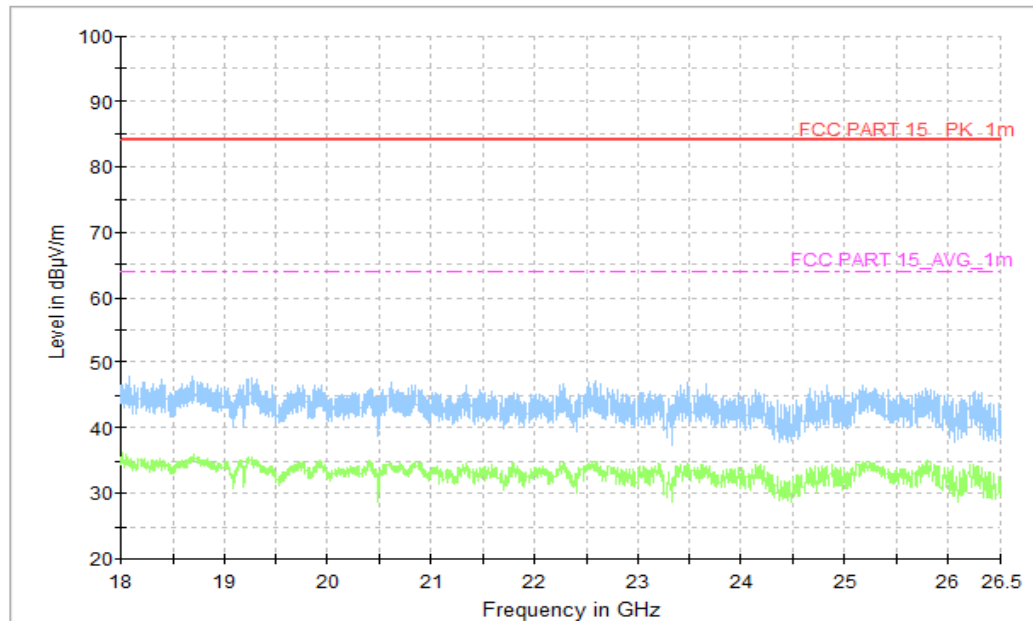


Figure A.1.3. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+Rear camera+Video Player+Charging, 18GHz to 26.5GHz)

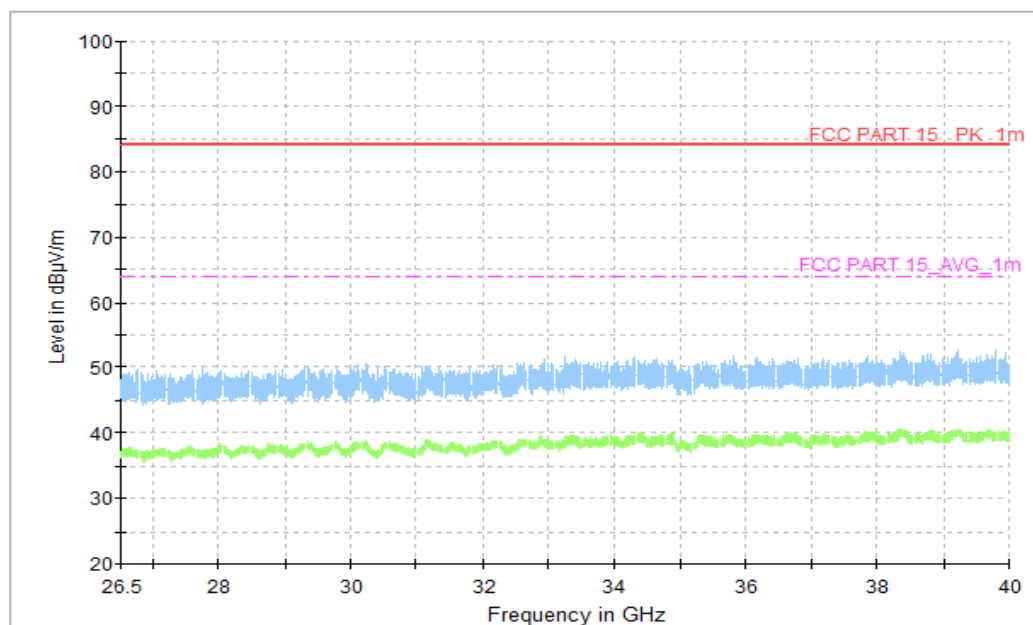


Figure A.1.4. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+Rear camera+Video Player+Charging, 26.5GHz to 40GHz)

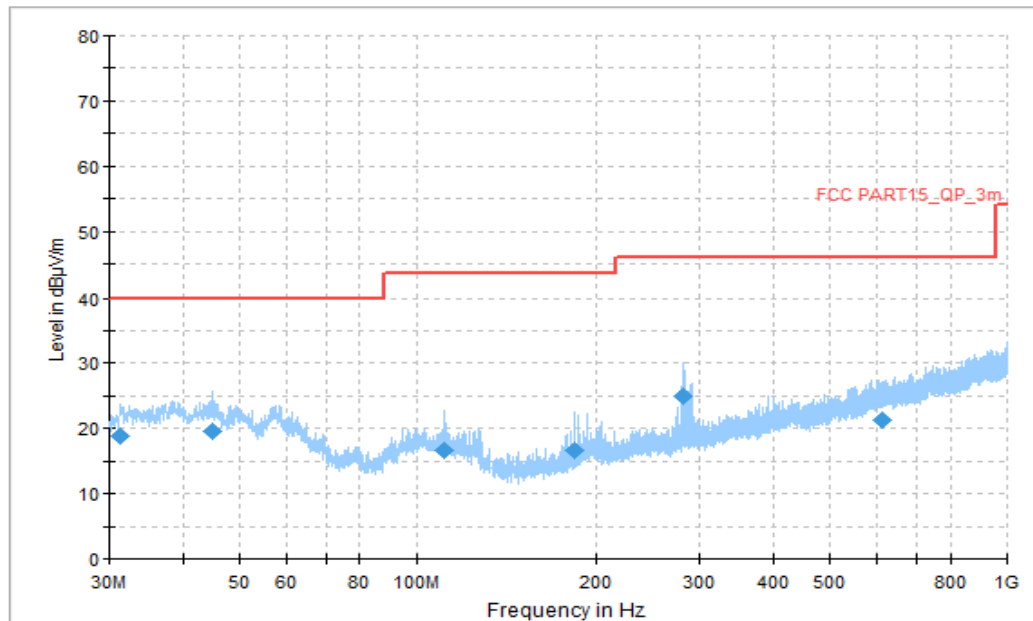


Figure A.1.5. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+headset+Front camera+microphone, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
31.347222	18.72	40.00	21.28	V	-15.3	34.02
45.035000	19.66	40.00	20.34	H	-13.1	32.76
110.941111	16.67	43.52	26.85	V	-15.0	31.67
183.960556	16.69	43.52	26.83	V	-16.1	32.79
281.930556	24.98	46.02	21.04	H	-12.3	37.28
613.886111	21.23	46.02	24.79	V	-4.3	25.53

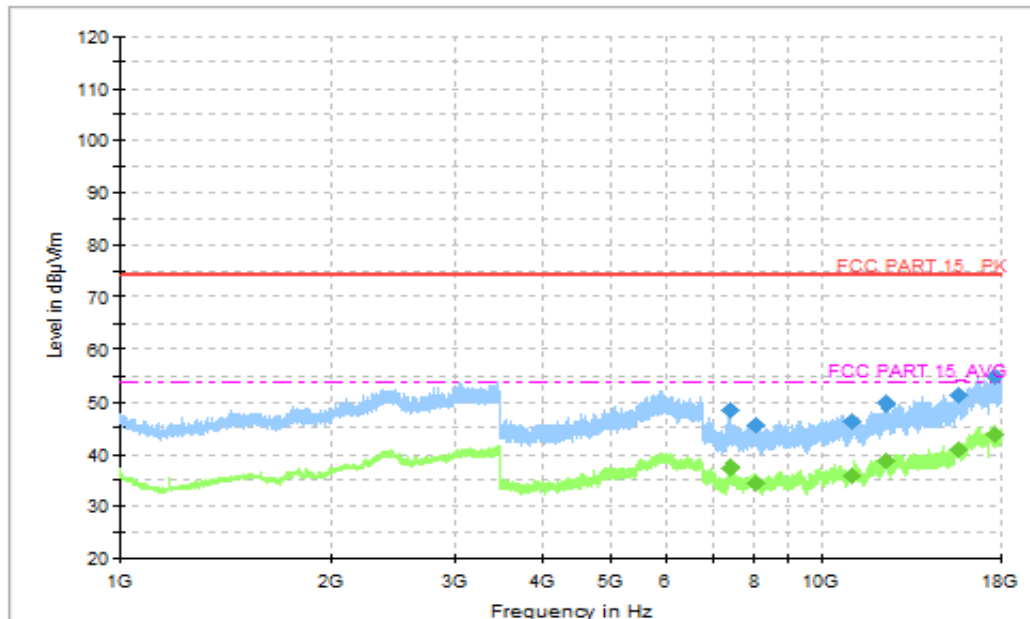


Figure A.1.6. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+headset+Front camera+microphone, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7412.307692	48.32	74.00	25.68	V	7.0	41.32
8084.769231	45.32	74.00	28.68	V	7.4	37.92
11022.923077	46.18	74.00	27.82	H	10.7	35.48
12356.769231	49.64	74.00	24.36	V	12.8	36.84
15656.769231	51.12	74.00	22.88	V	14.0	37.12
17713.846154	55.00	74.00	19.00	V	20.5	34.50

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7412.307692	37.41	54.00	16.59	V	7.0	30.41
8084.769231	34.45	54.00	19.55	V	7.4	27.05
11022.923077	35.86	54.00	18.14	H	10.7	25.16
12356.769231	38.64	54.00	15.36	V	12.8	25.84
15656.769231	40.70	54.00	13.30	V	14.0	26.7
17713.846154	43.92	54.00	10.08	V	20.5	23.42

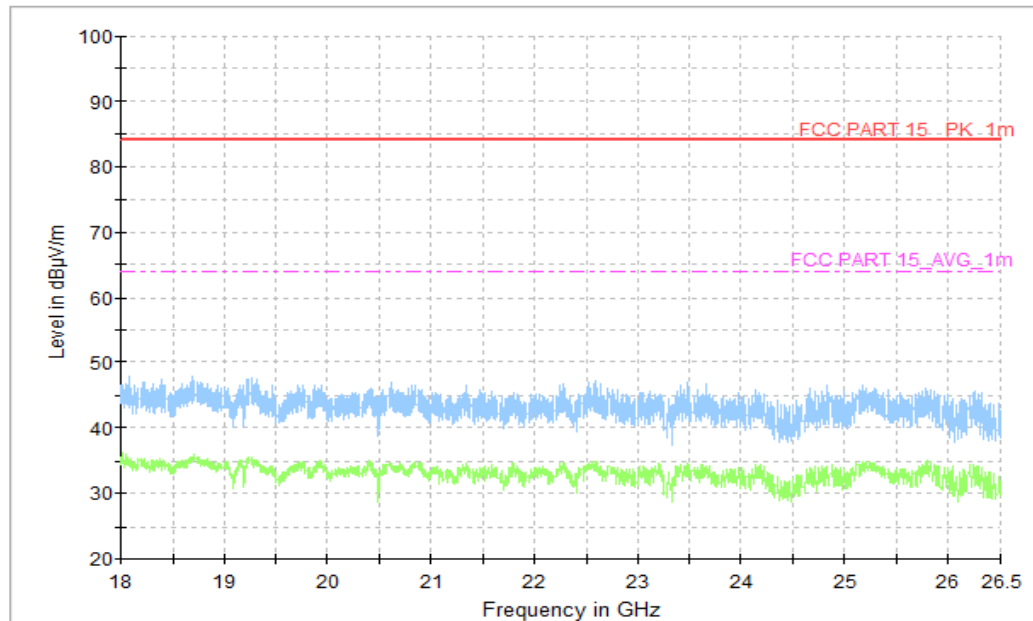


Figure A.1.7. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+headset+Front camera+microphone, 18GHz to 26.5GHz)

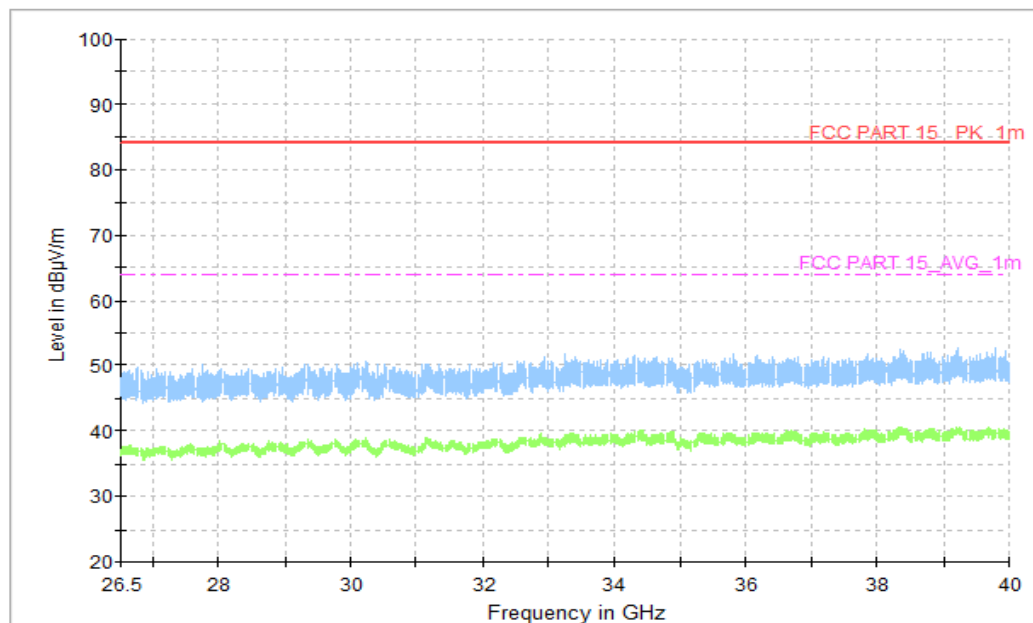


Figure A.1.8. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+headset+Front camera+microphone, 26.5GHz to 40GHz)

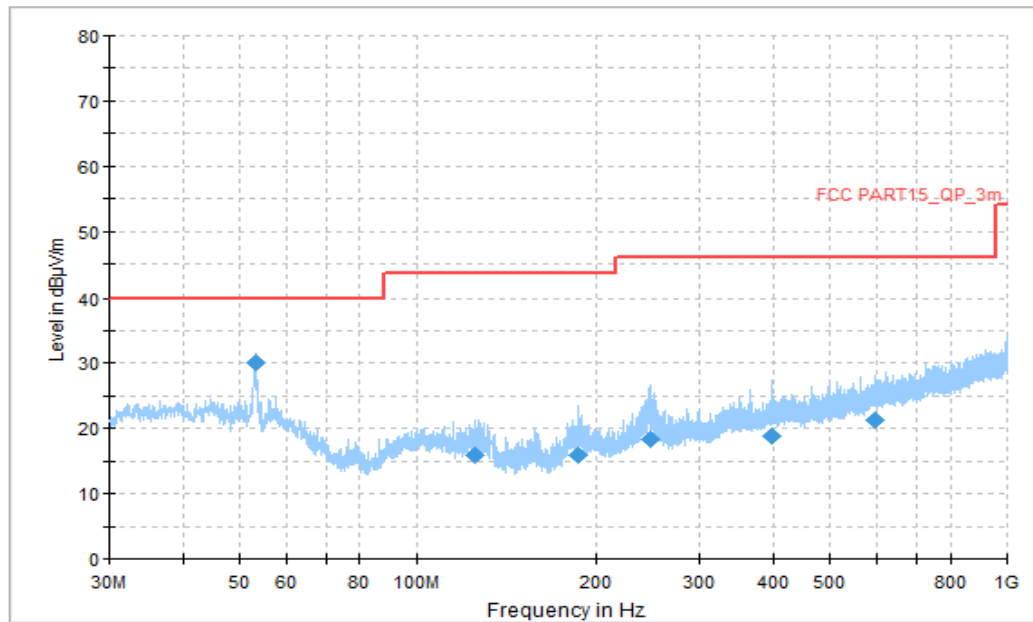


Figure A.1.9. Radiated Emission (Band 6GHz Wi-Fi+Bluetooth+Bluetooth headset+Display on+Data Transfer, 30MHz to 1GHz)

Final Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
53.118333	30.16	40.00	9.84	V	-14.1	44.26
125.329444	16.00	43.52	27.52	V	-17.5	33.5
187.032222	15.99	43.52	27.53	V	-15.7	31.69
248.465556	18.42	46.02	27.60	H	-13.6	32.02
398.168889	18.92	46.02	27.10	V	-8.6	27.52
595.510000	21.23	46.02	24.79	H	-4.5	25.73

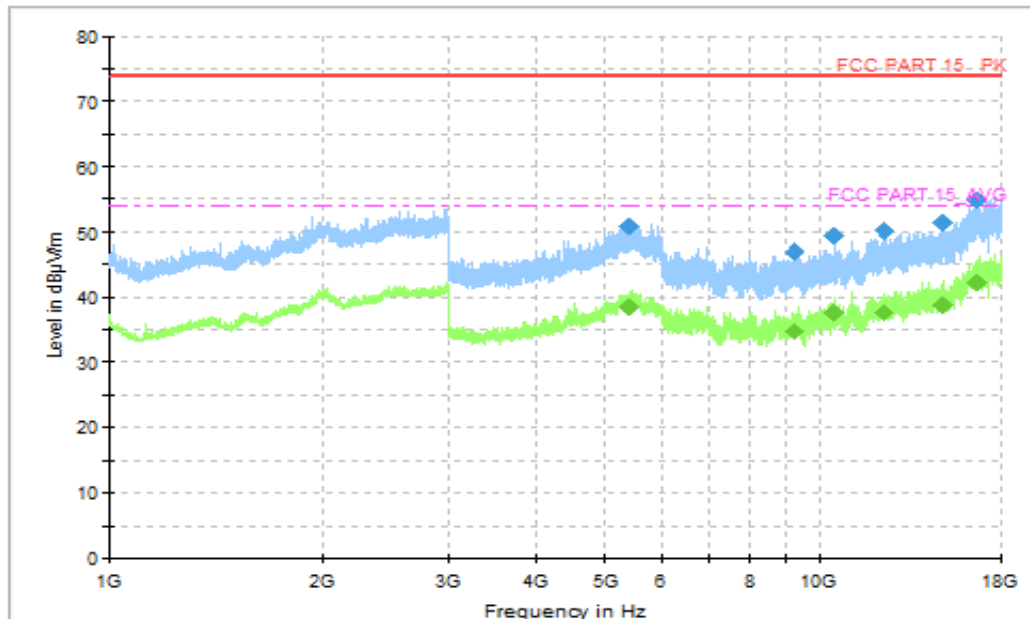


Figure A.1.10. Radiated Emission (Band 6GHz Wi-Fi+Bluetooth+Bluetooth headset+Display on+Data Transfer, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
5388.300000	50.98	74.00	23.02	V	7.2	51.30
9215.142857	47.03	74.00	26.97	H	7.9	50.00
10469.571429	49.48	74.00	24.52	H	9.9	48.20
12379.714286	50.25	74.00	23.75	H	12.7	46.90
14938.714286	51.50	74.00	22.50	H	15.0	46.40
16666.285714	54.87	74.00	19.13	H	19.0	43.70

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
5388.300000	38.52	54.00	15.48	V	7.2	38.30
9215.142857	34.71	54.00	19.29	H	7.9	37.60
10469.571429	37.76	54.00	16.24	H	9.9	34.90
12379.714286	37.78	54.00	16.22	H	12.7	33.10
14938.714286	38.80	54.00	15.20	H	15.0	32.60
16666.285714	42.38	54.00	11.62	H	19.0	30.90

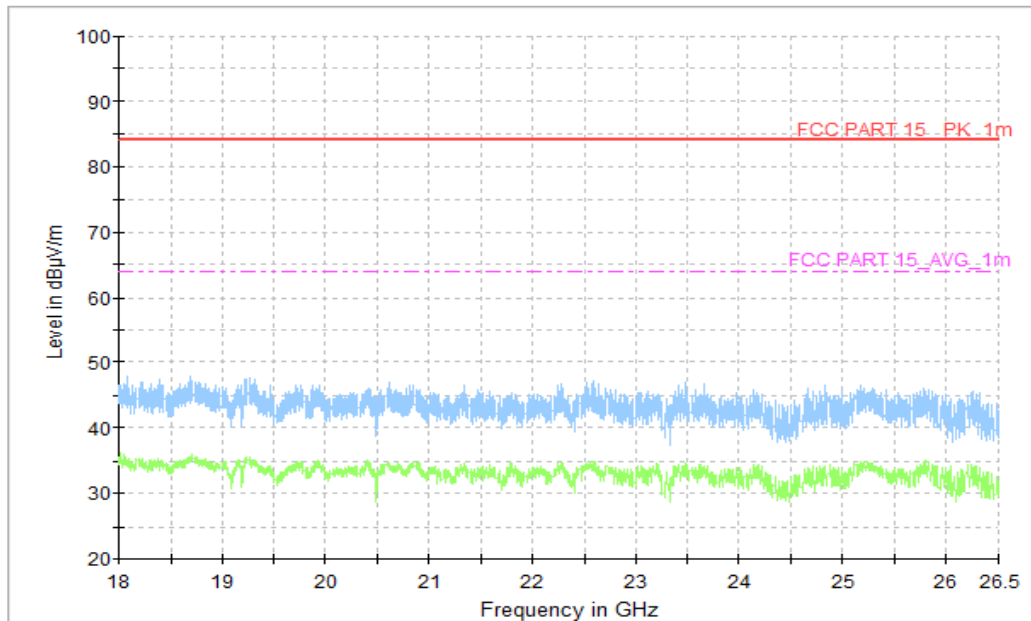


Figure A.1.11. Radiated Emission (Band 6GHz Wi-Fi+Bluetooth+Bluetooth headset+Display on+Data Transfer, 18GHz to 26.5GHz)

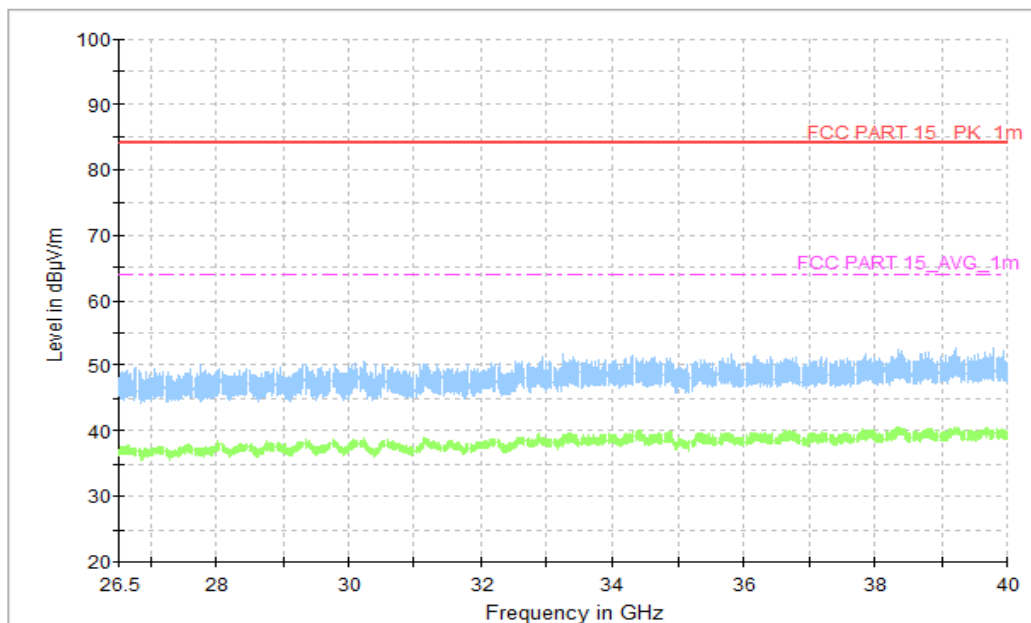


Figure A.1.12. Radiated Emission (Band 6GHz Wi-Fi+Bluetooth+Bluetooth headset+Display on+Data Transfer, 26.5GHz to 40GHz)

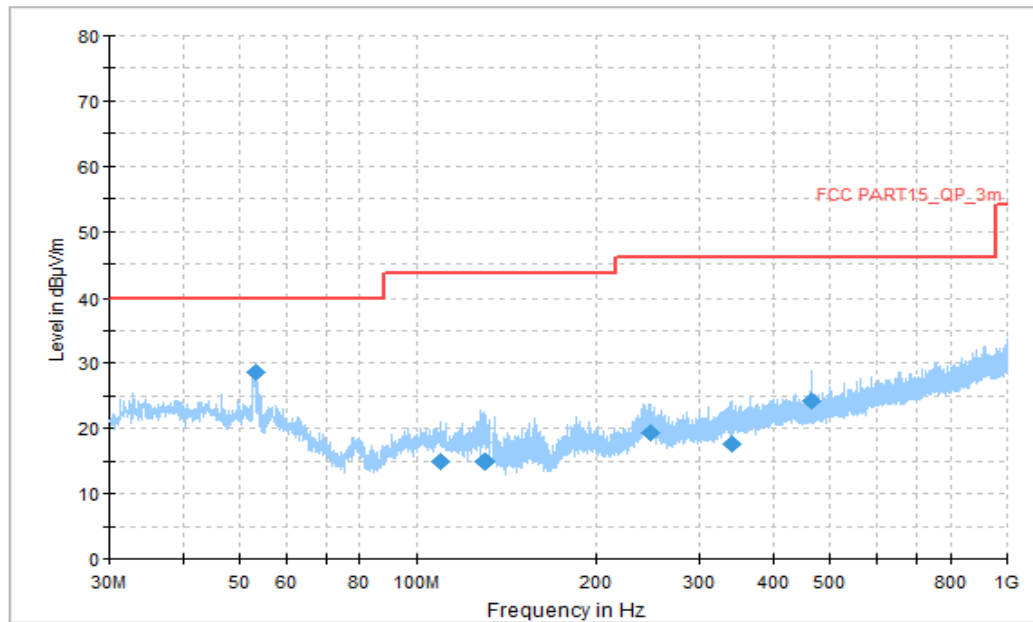


Figure A.1.13. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+NFC+Scanning+Data Transfer, 30MHz to 1GHz)

Final Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
53.172222	28.71	40.00	11.29	V	-14.1	42.81
109.755556	14.81	43.52	28.71	V	-14.9	29.71
129.963889	14.84	43.52	28.68	V	-17.8	32.64
246.902778	19.26	46.02	26.76	H	-13.7	32.96
340.831111	17.62	46.02	28.40	H	-10.1	27.72
466.500000	24.10	46.02	21.92	V	-7.4	31.50

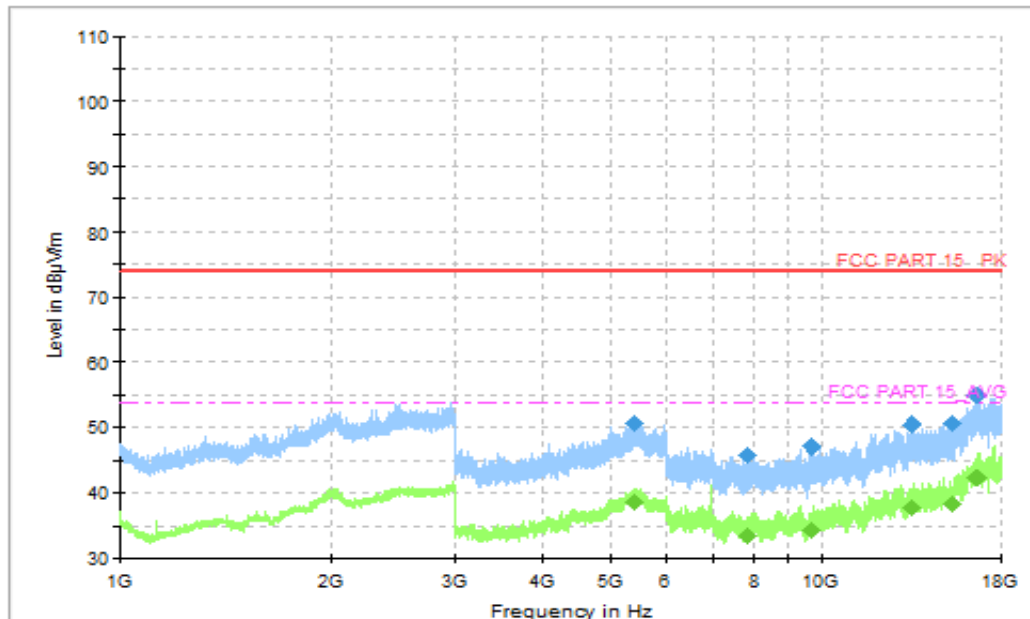


Figure A.1.14. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+NFC+Scanning+Data Transfer, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
5402.400000	50.73	74.00	23.27	V	7.3	51.30
7812.000000	45.90	74.00	28.10	H	7.6	50.00
9688.714286	47.01	74.00	26.99	V	8.7	48.20
13419.000000	50.47	74.00	23.53	V	13.0	46.90
15321.428572	50.91	74.00	23.09	H	13.8	46.40
16662.857143	54.92	74.00	19.08	V	19.0	43.70

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
5402.400000	38.58	54.00	15.42	V	7.3	38.30
7812.000000	33.52	54.00	20.48	H	7.6	37.60
9688.714286	34.31	54.00	19.69	V	8.7	34.90
13419.000000	37.95	54.00	16.05	V	13.0	33.10
15321.428572	38.26	54.00	15.74	H	13.8	32.60
16662.857143	42.37	54.00	11.63	V	19.0	30.90

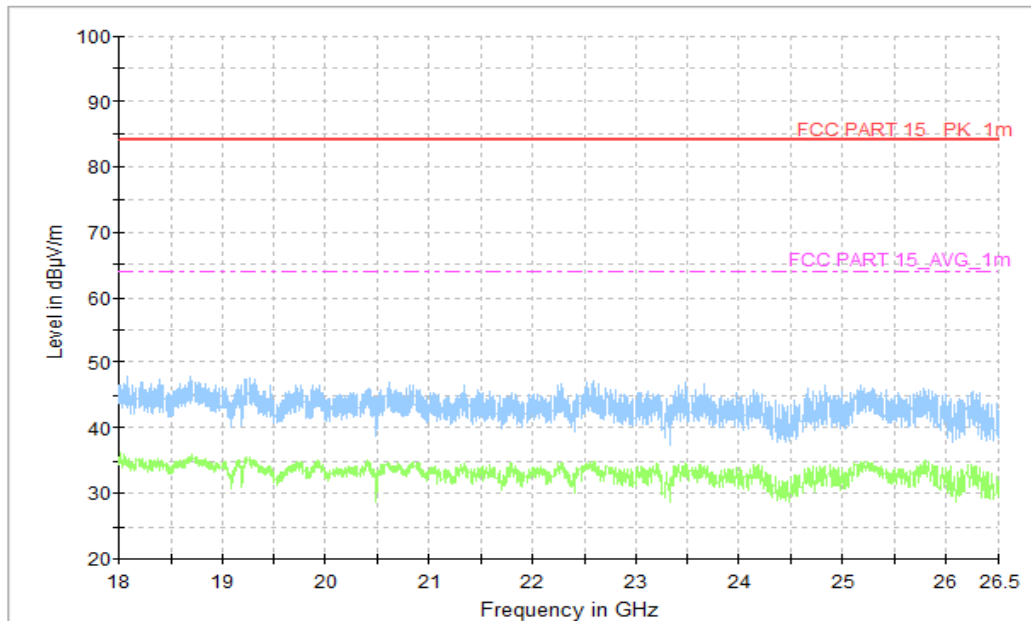


Figure A.1.15. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+NFC+Scanning+Data Transfer, 18GHz to 26.5GHz)

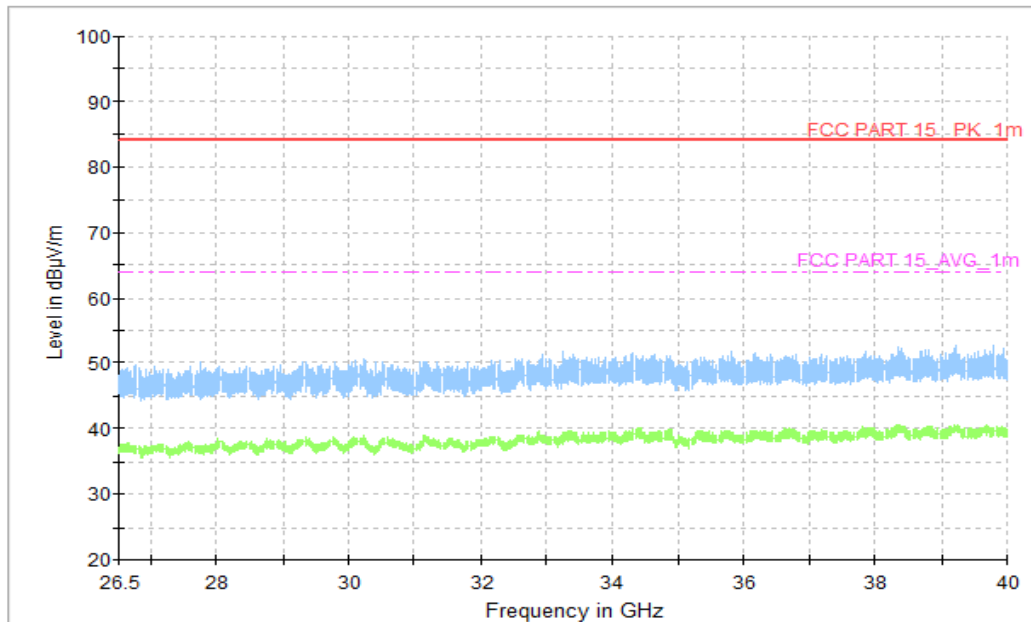


Figure A.1.16. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+NFC+Scanning+Data Transfer, 26.5GHz to 40GHz)

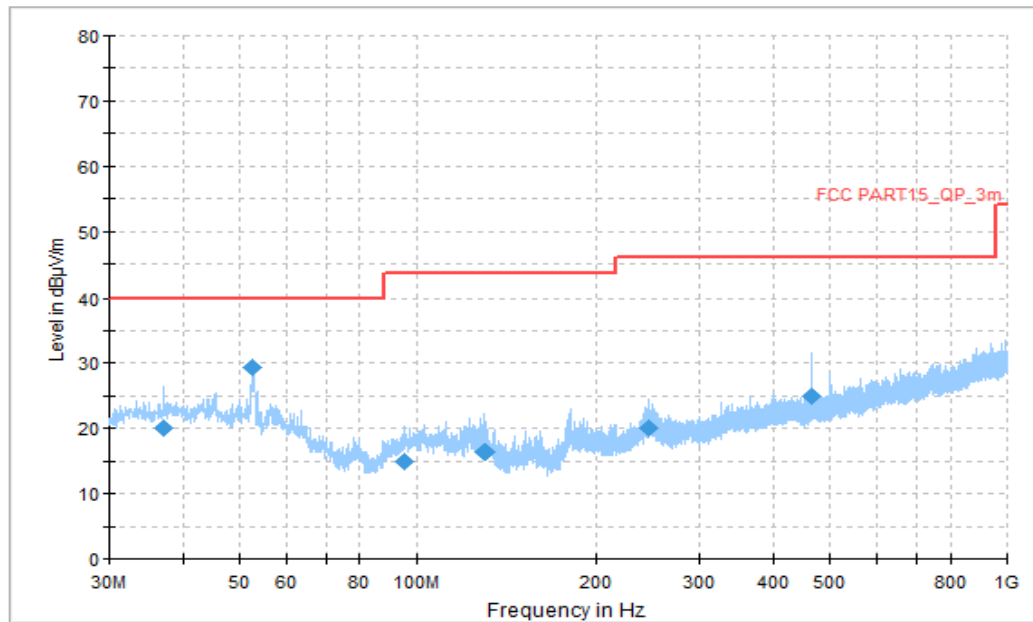


Figure A.1.17. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+Scanning+Data Transfer, 30MHz to 1GHz)

Final Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
37.113333	20.00	40.00	20.00	V	-14.1	34.10
52.525556	29.26	40.00	10.74	V	-13.9	43.16
95.097778	14.87	43.52	28.65	V	-15.3	30.17
129.802222	16.28	43.52	27.24	V	-17.8	34.08
245.286111	20.11	46.02	25.91	H	-13.7	33.81
465.799444	25.04	46.02	20.98	V	-7.5	32.54

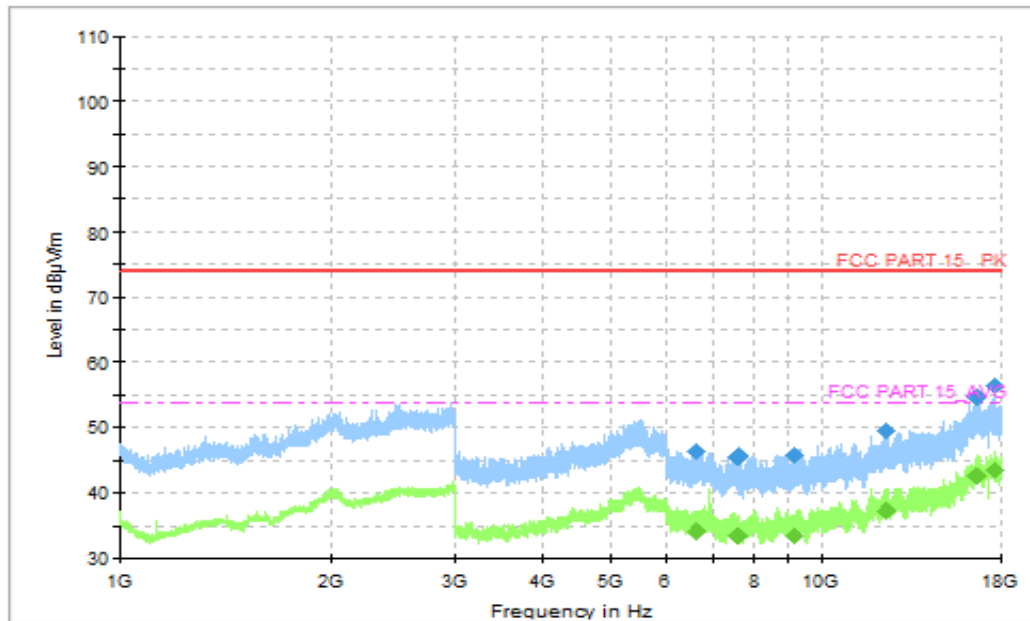


Figure A.1.18. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+Scanning+Data Transfer, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
6623.142857	46.43	74.00	27.57	H	8.0	38.43
7580.142857	45.64	74.00	28.36	H	6.4	39.24
9136.714286	46.00	74.00	28.00	V	7.8	38.20
12378.428572	49.52	74.00	24.48	H	12.7	36.82
16708.714286	54.79	74.00	19.21	H	18.9	35.89
17674.285714	56.42	74.00	17.58	H	20.6	35.82

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
6623.142857	34.08	54.00	19.92	H	8.0	26.08
7580.142857	33.33	54.00	20.67	H	6.4	26.93
9136.714286	33.53	54.00	20.47	V	7.8	25.73
12378.428572	37.29	54.00	16.71	H	12.7	24.59
16708.714286	42.68	54.00	11.32	H	18.9	23.78
17674.285714	43.37	54.00	10.63	H	20.6	22.77

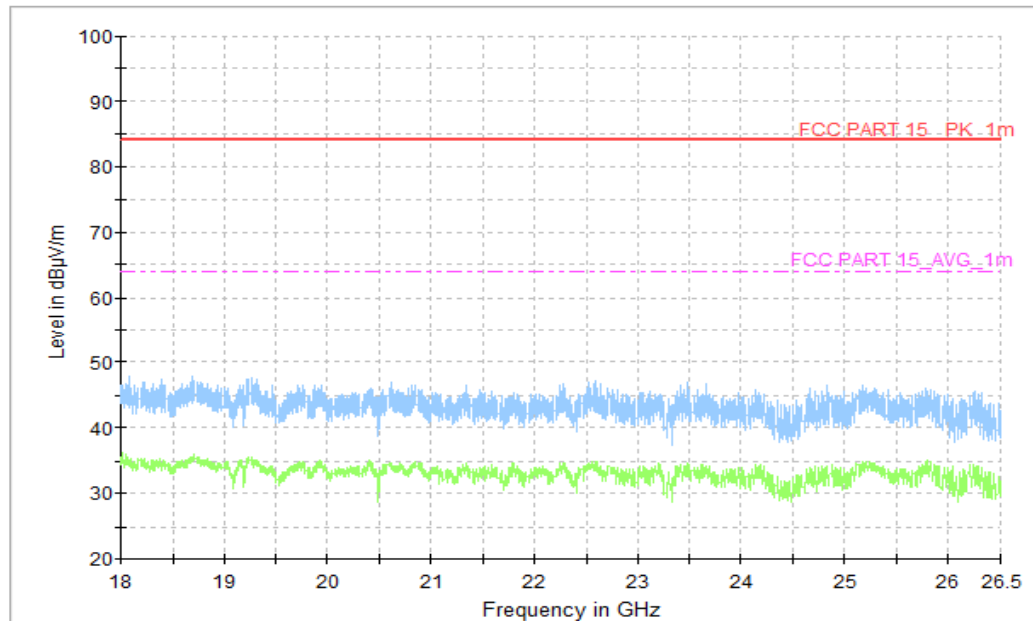


Figure A.1.19. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+Scanning+Data Transfer, 18GHz to 26.5GHz)

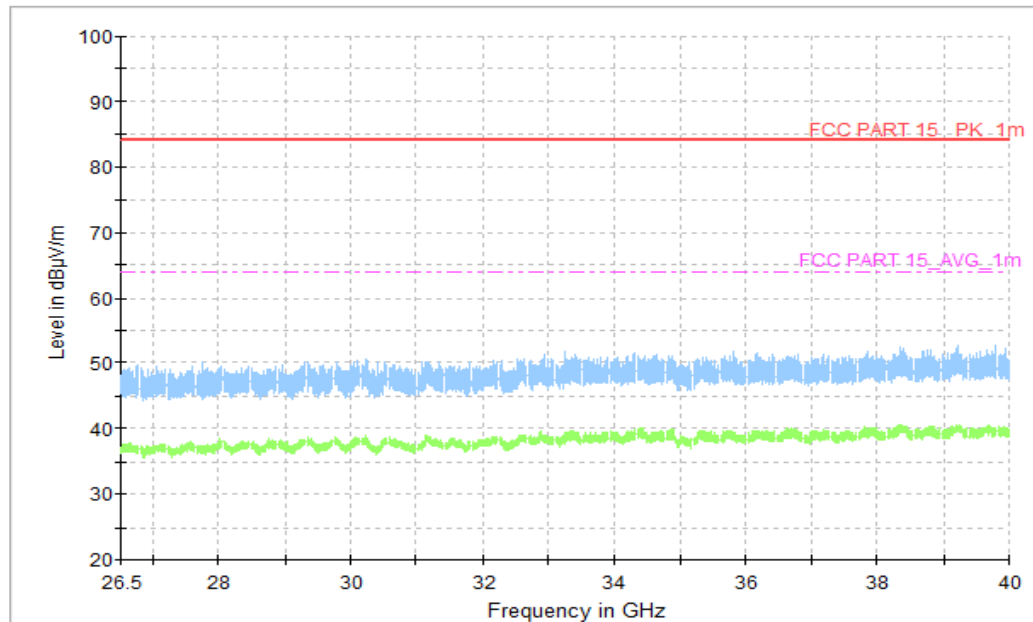


Figure A.1.20. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+Scanning+Data Transfer, 26.5GHz to 40GHz)

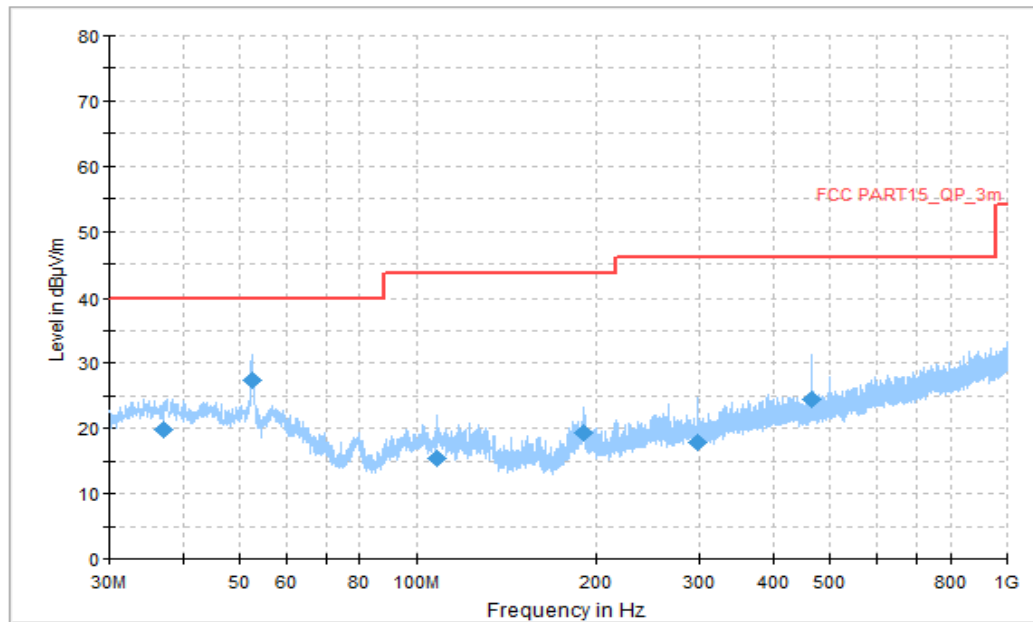


Figure A.1.21. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+NFC+Scanning+Data Transfer, 30MHz to 1GHz)

Final Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
37.113333	19.92	40.00	20.08	V	-14.1	34.02
52.417778	27.40	40.00	12.60	V	-13.9	41.3
108.462222	15.42	43.52	28.10	V	-14.6	30.02
190.696667	19.42	43.52	24.10	H	-15.1	34.52
298.743889	17.95	46.02	28.07	H	-11.8	29.75
466.230556	24.49	46.02	21.53	V	-7.5	31.99

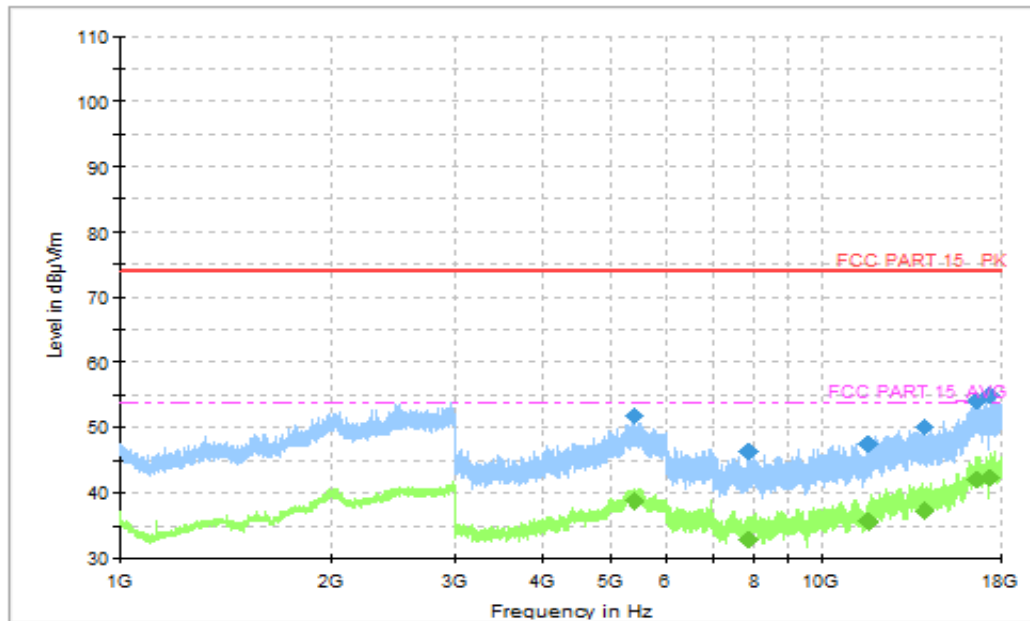


Figure A.1.22. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+NFC+Scanning+Data Transfer, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
5410.500000	51.71	74.00	22.29	V	7.3	44.41
7897.285714	46.46	74.00	27.54	H	7.0	39.46
11631.428572	47.67	74.00	26.33	V	11.1	36.57
13980.428572	50.12	74.00	23.88	V	13.0	37.12
16626.000000	54.10	74.00	19.90	V	18.9	35.2
17351.142857	54.86	74.00	19.14	H	19.6	35.26

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
5410.500000	38.73	54.00	15.27	V	7.3	31.43
7897.285714	33.03	54.00	20.97	H	7.0	26.03
11631.428572	35.65	54.00	18.35	V	11.1	24.55
13980.428572	37.42	54.00	16.58	V	13.0	24.42
16626.000000	41.91	54.00	12.09	V	18.9	23.01
17351.142857	42.44	54.00	11.56	H	19.6	22.84

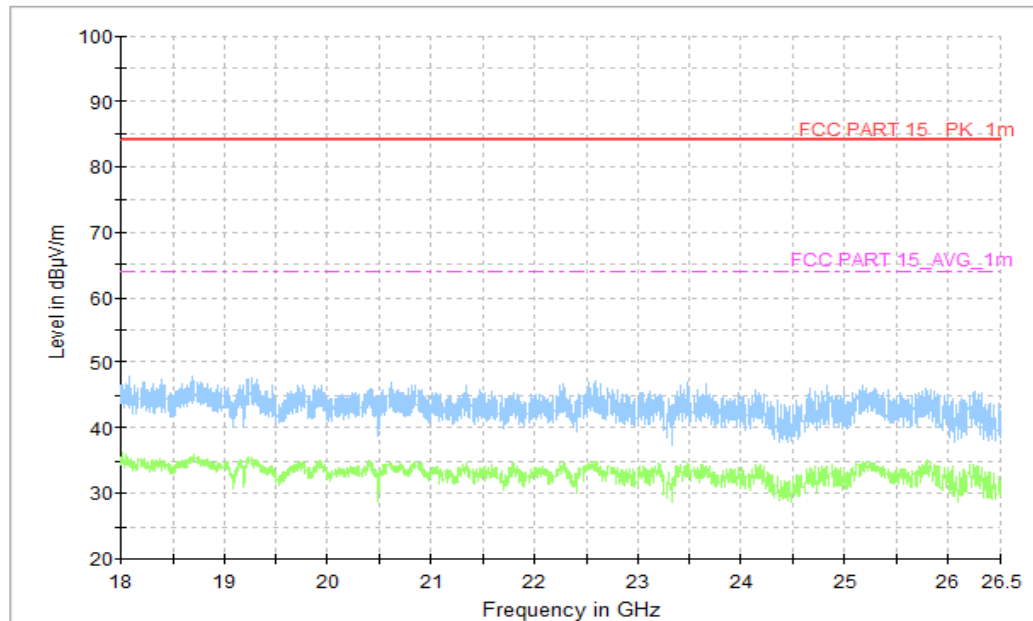


Figure A.1.23. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+NFC+Scanning+Data Transfer, 18GHz to 26.5GHz)

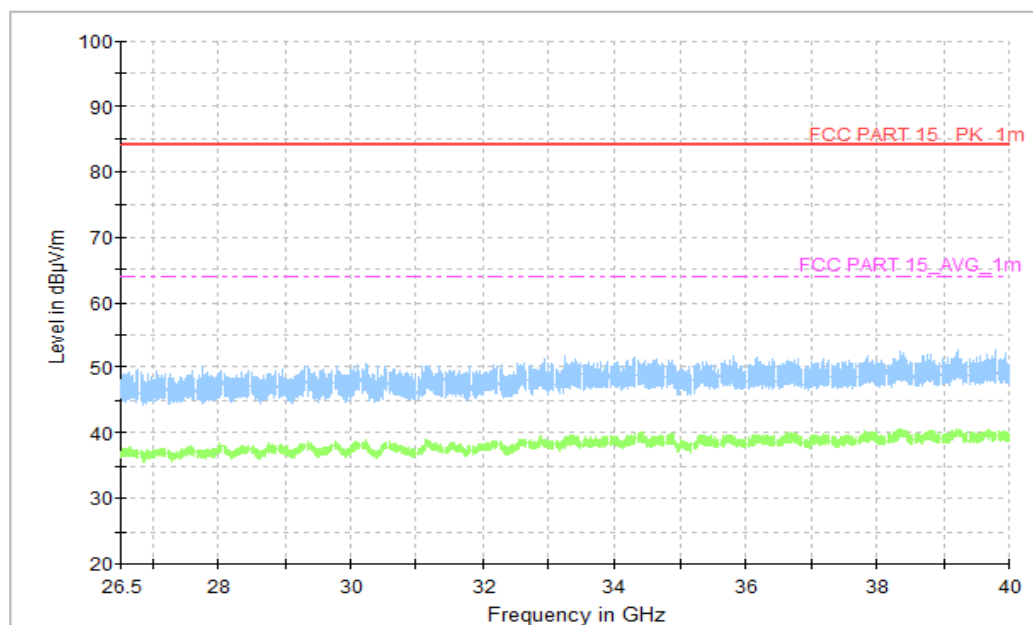
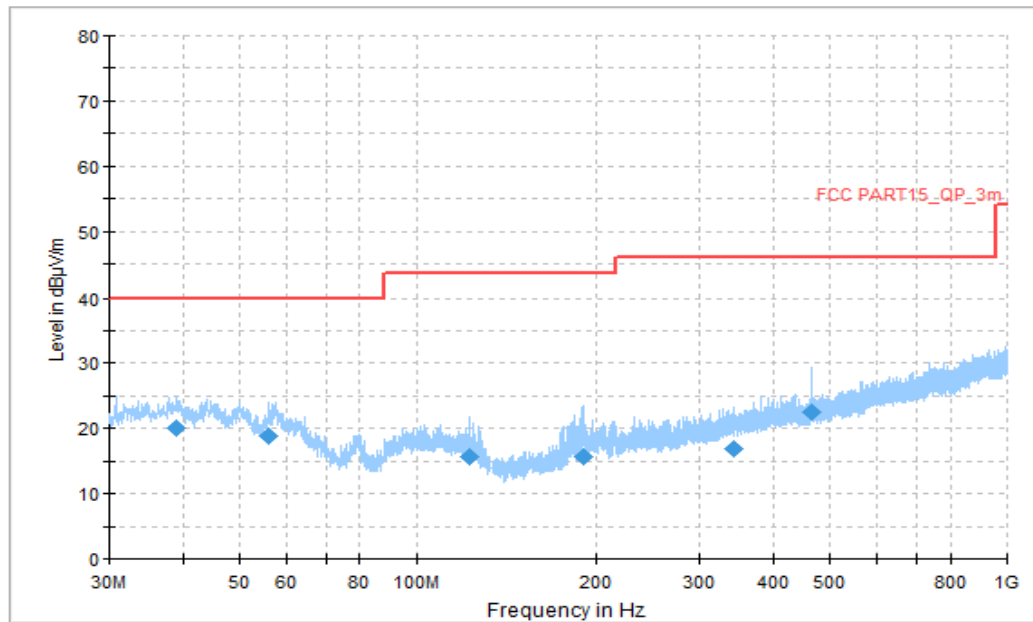


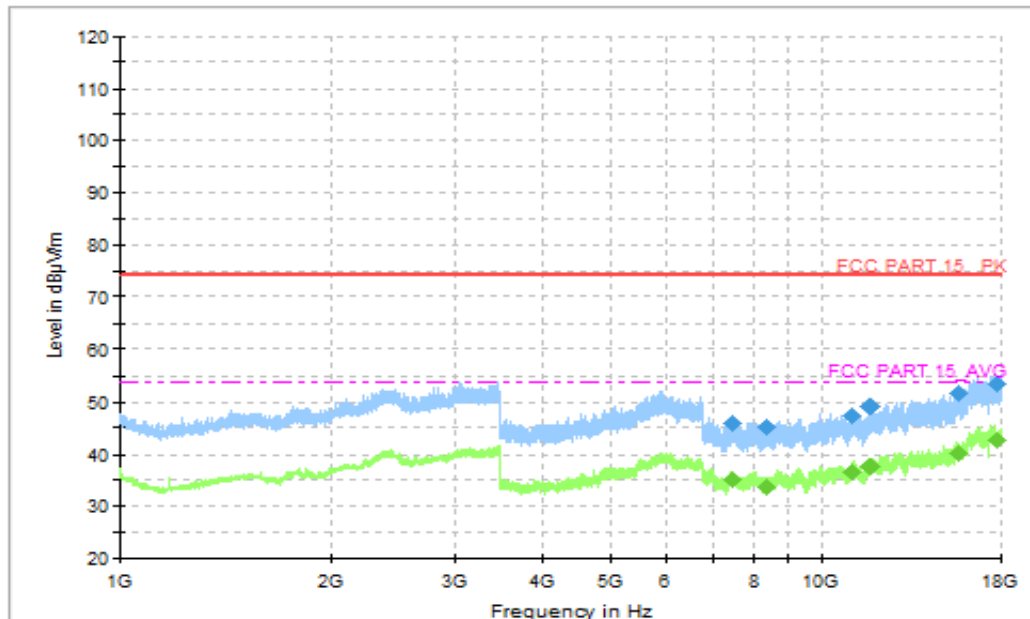
Figure A.1.24. Radiated Emission (Band 2.4GHz Wi-Fi+Bluetooth+NFC+Scanning+Data Transfer, 26.5GHz to 40GHz)



**Figure A.1.25. Radiated Emission (Band 5GHz
Wi-Fi+Bluetooth+NFC+Scanning+Charging via POGO PIN+Ethernet Connection,
30MHz to 1GHz)**

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
38.945556	20.09	40.00	19.91	H	-13.8	33.89
55.974444	18.93	40.00	21.07	H	-13.0	31.93
122.904444	15.58	43.52	27.94	V	-17.1	32.68
190.750556	15.62	43.52	27.90	V	-15.1	30.72
342.393889	16.80	46.02	29.22	V	-10.0	26.8
465.476111	22.50	46.02	23.52	V	-7.5	30.00



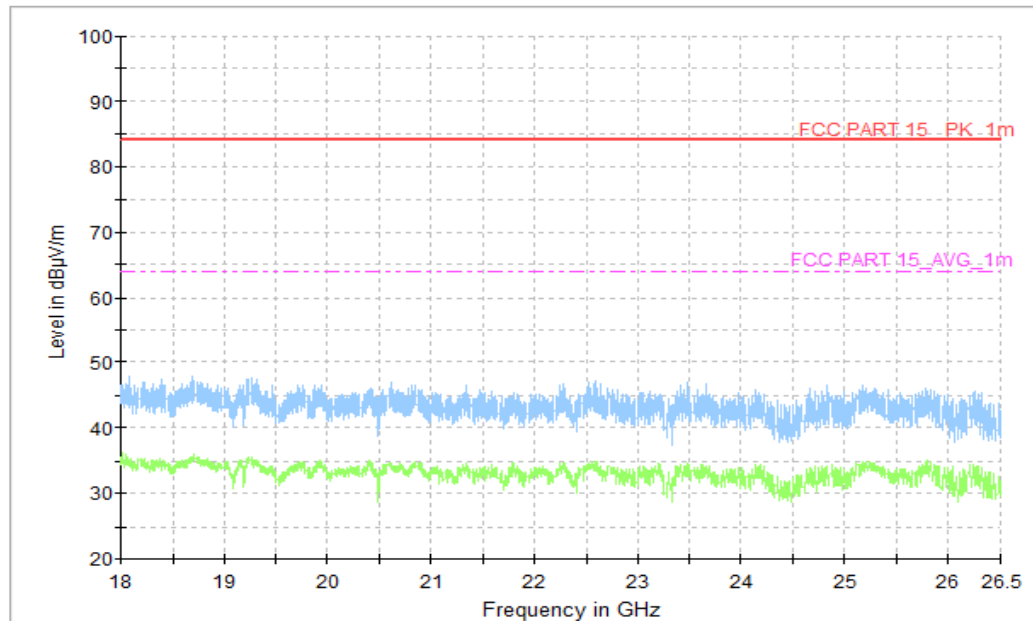
**Figure A.1.26. Radiated Emission (Band 5GHz
Wi-Fi+Bluetooth+NFC+Scanning+Charging via POGO PIN+Ethernet Connection, 1GHz
to 18GHz)**

Final_Results_PK

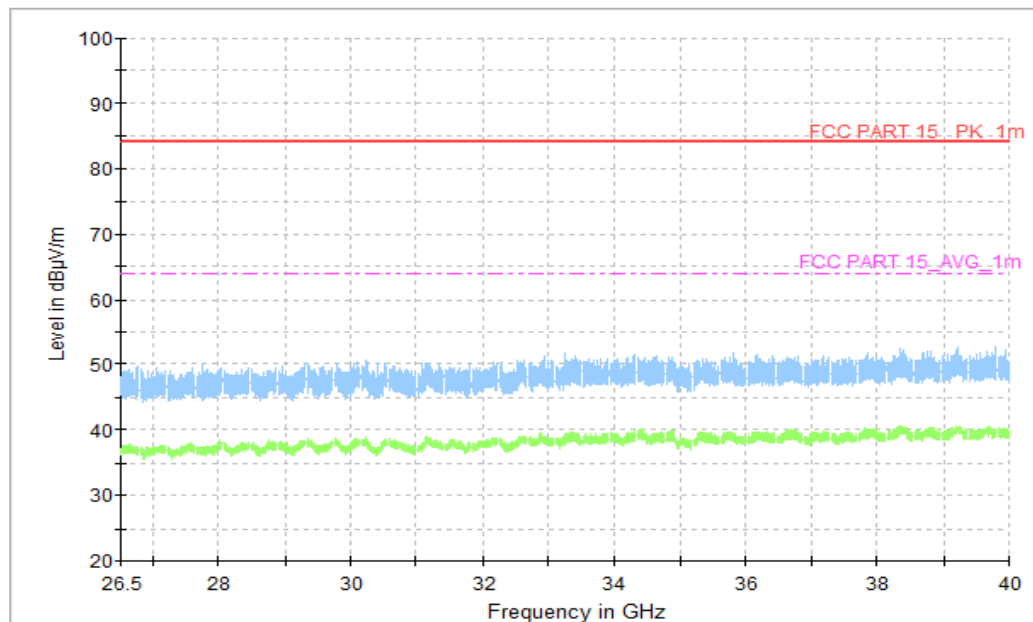
Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7482.461539	45.90	74.00	28.10	H	7.0	38.90
8335.846154	44.96	74.00	29.04	H	7.0	37.96
11067.692308	47.36	74.00	26.64	V	11.0	36.36
11736.000000	49.10	74.00	24.90	H	12.1	37.00
15684.000000	51.45	74.00	22.55	H	14.2	37.25
17815.384615	53.35	74.00	20.65	V	20.2	33.15

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7482.461539	34.92	54.00	19.08	H	7.0	27.92
8335.846154	33.74	54.00	20.26	H	7.0	26.74
11067.692308	36.38	54.00	17.62	V	11.0	25.38
11736.000000	37.73	54.00	16.27	H	12.1	25.63
15684.000000	40.32	54.00	13.68	H	14.2	26.12
17815.384615	42.77	54.00	11.23	V	20.2	22.57



**Figure A.1.27. Radiated Emission (Band 5GHz
Wi-Fi+Bluetooth+NFC+Scanning+Charging via POGO PIN+Ethernet Connection,
18GHz to 26.5GHz)**



**Figure A.1.28. Radiated Emission (Band 5GHz
Wi-Fi+Bluetooth+NFC+Scanning+Charging via POGO PIN+Ethernet Connection,
26.5GHz to 40GHz)**

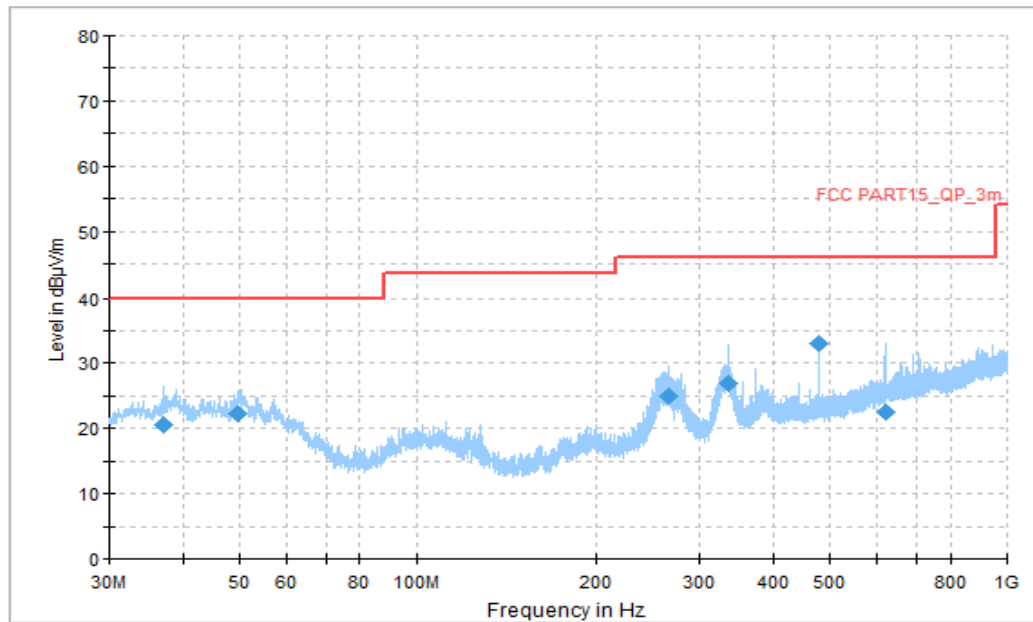


Figure A.1.29. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: EUT TO PC, 30MHz to 1GHz)

Final Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
37.113333	20.56	40.00	19.44	V	-14.1	34.66
49.777222	22.18	40.00	17.82	V	-13.3	35.48
266.356667	25.02	46.02	21.00	H	-13.3	38.32
336.573889	26.92	46.02	19.10	V	-10.3	37.22
479.972222	32.95	46.02	13.07	V	-7.2	40.15
621.484444	22.52	46.02	23.50	V	-4.1	26.62

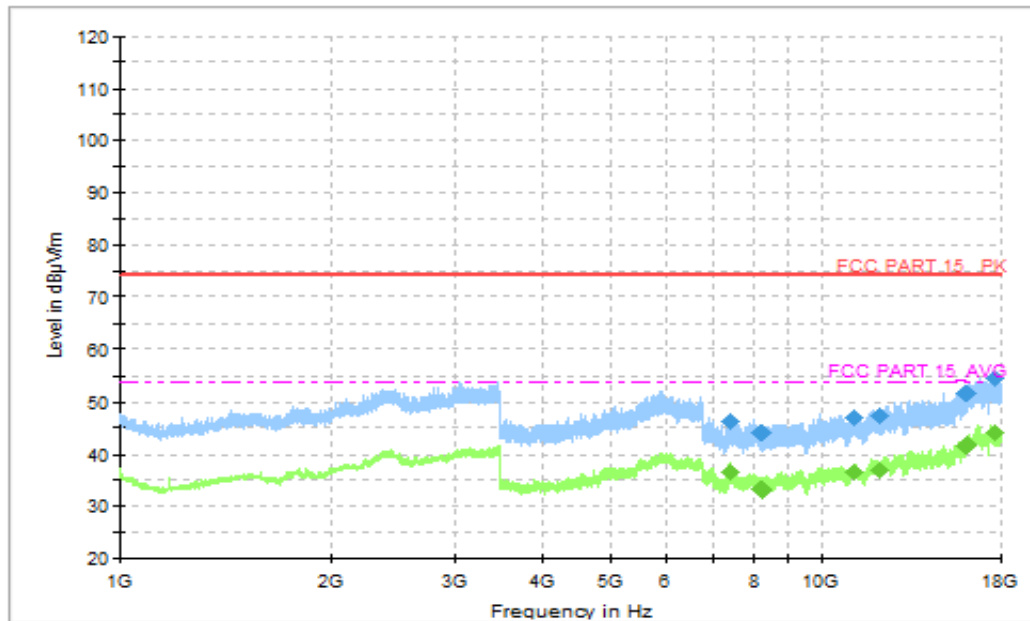


Figure A.1.30. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: EUT TO PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7403.076923	46.44	74.00	27.56	V	7.0	39.44
8205.692308	44.14	74.00	29.86	V	6.2	37.94
11101.846154	46.87	74.00	27.13	V	10.9	35.97
12114.923077	47.26	74.00	26.74	V	12.2	35.06
16088.769231	51.59	74.00	22.41	V	16.4	35.19
17711.076923	54.52	74.00	19.48	V	20.5	34.02

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7403.076923	36.58	54.00	17.42	V	7.0	29.58
8205.692308	33.16	54.00	20.84	V	6.2	26.96
11101.846154	36.41	54.00	17.59	V	10.9	25.51
12114.923077	36.92	54.00	17.08	V	12.2	24.72
16088.769231	41.65	54.00	12.35	V	16.4	25.25
17711.076923	44.23	54.00	9.77	V	20.5	23.73

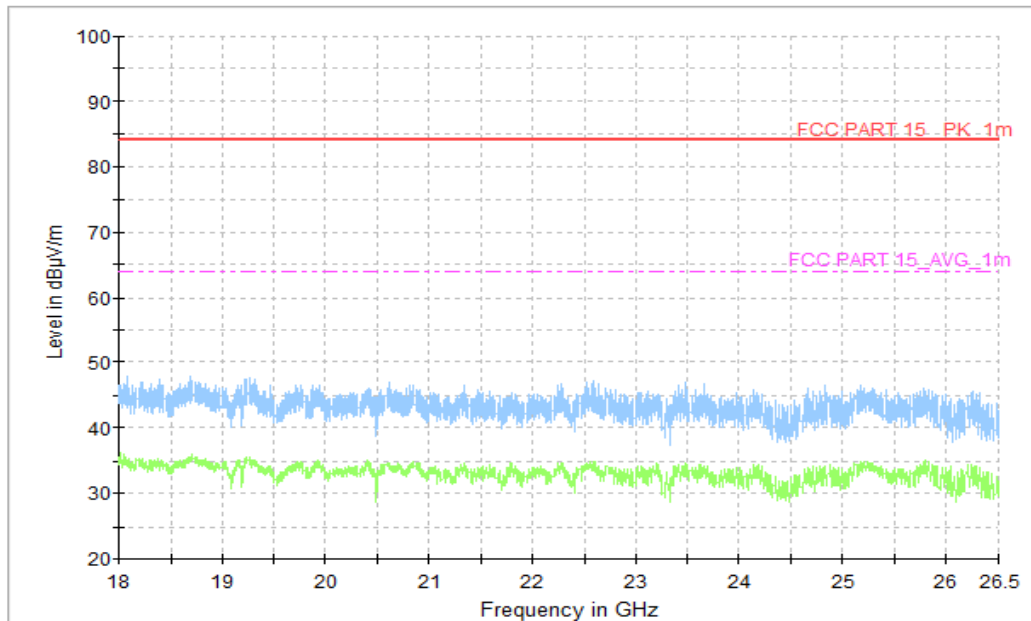


Figure A.1.31. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: EUT TO PC, 18GHz to 26.5GHz)

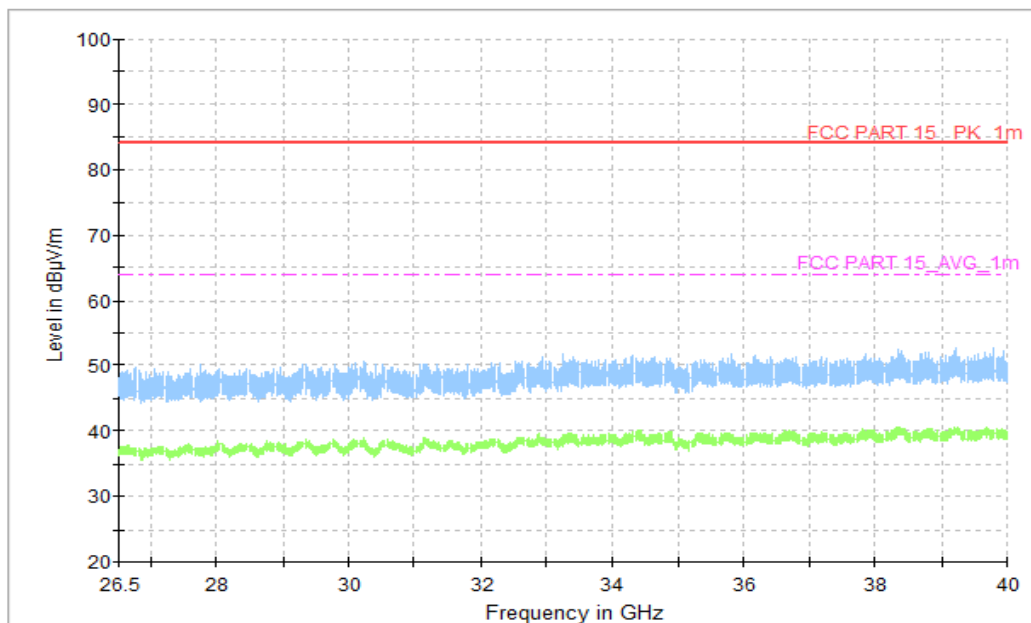


Figure A.1.32. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: EUT TO PC, 26.5GHz to 40GHz)

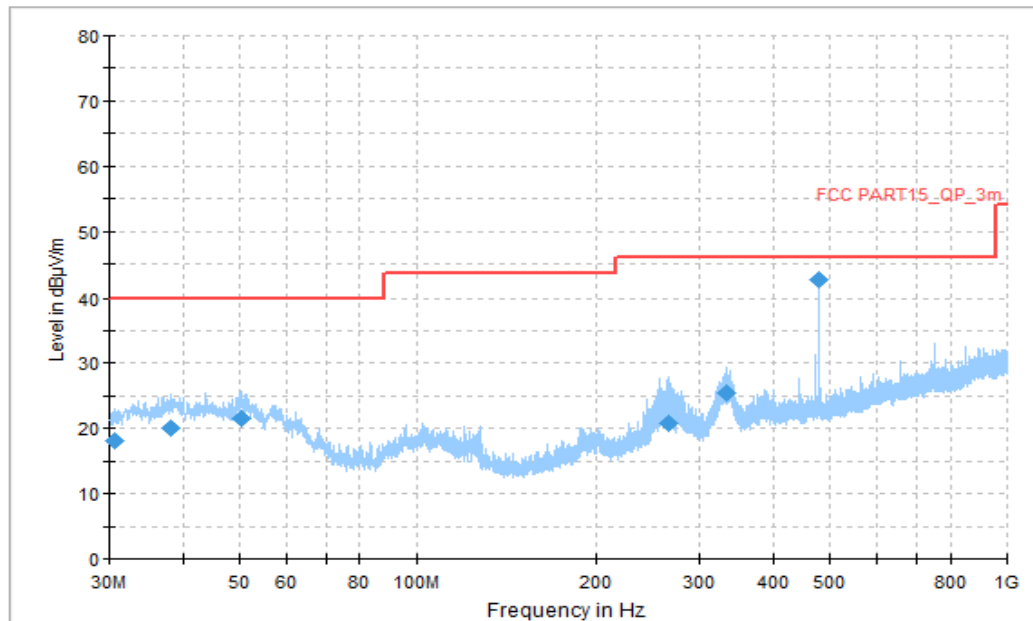


Figure A.1.33. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: PC TO EUT, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
30.646667	18.18	40.00	21.82	V	-15.4	33.58
38.137222	19.94	40.00	20.06	H	-13.9	33.84
50.154444	21.41	40.00	18.59	V	-13.3	34.71
265.009444	20.83	46.02	25.19	H	-13.3	34.13
333.610000	25.44	46.02	20.58	V	-10.5	35.94
480.026111	42.45	46.02	3.57	H	-7.2	49.65

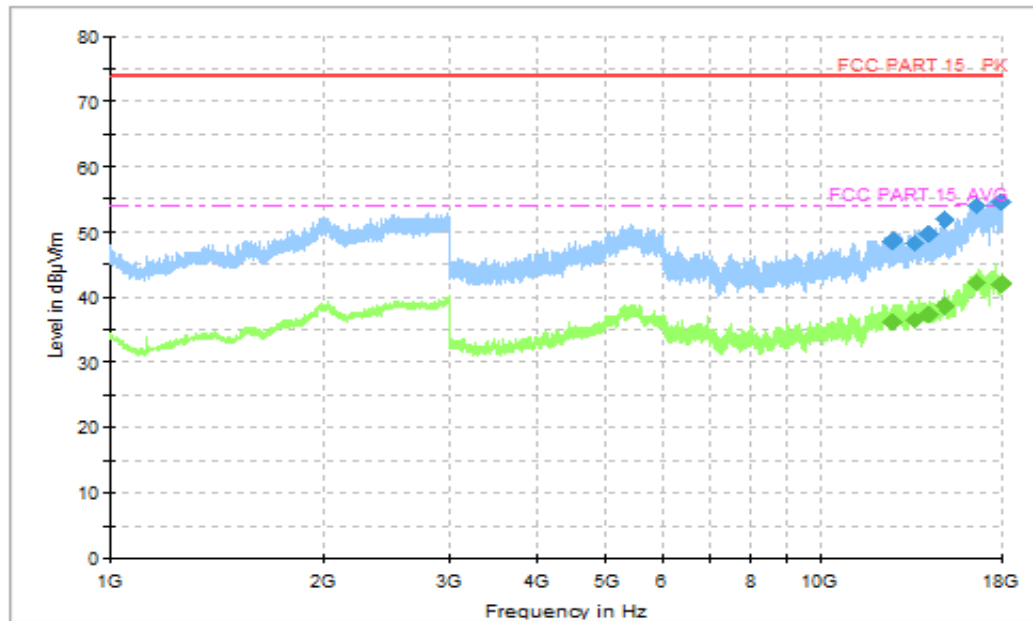


Figure A.1.34. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: PC TO EUT, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
12619.285714	48.67	74.00	25.33	V	12.0	36.67
13614.857143	48.31	74.00	25.69	H	13.1	35.21
14218.285714	49.64	74.00	24.36	V	13.3	36.34
14973.428572	51.94	74.00	22.06	H	14.7	37.24
16614.428571	54.11	74.00	19.89	V	18.8	35.31
17956.714286	54.65	74.00	19.35	H	20.5	34.15

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
12619.285714	36.29	54.00	17.71	V	12.0	24.29
13614.857143	36.52	54.00	17.48	H	13.1	23.42
14218.285714	37.42	54.00	16.58	V	13.3	24.12
14973.428572	38.62	54.00	15.38	H	14.7	23.92
16614.428571	42.22	54.00	11.78	V	18.8	23.42
17956.714286	42.13	54.00	11.87	H	20.5	21.63

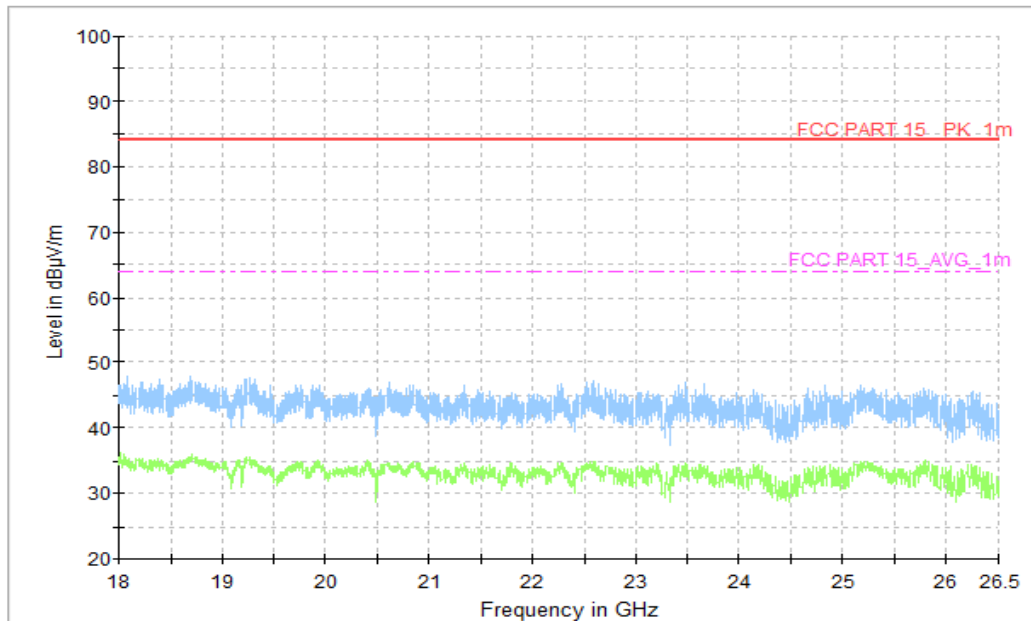


Figure A.1.35. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: PC TO EUT, 18GHz to 26.5GHz)

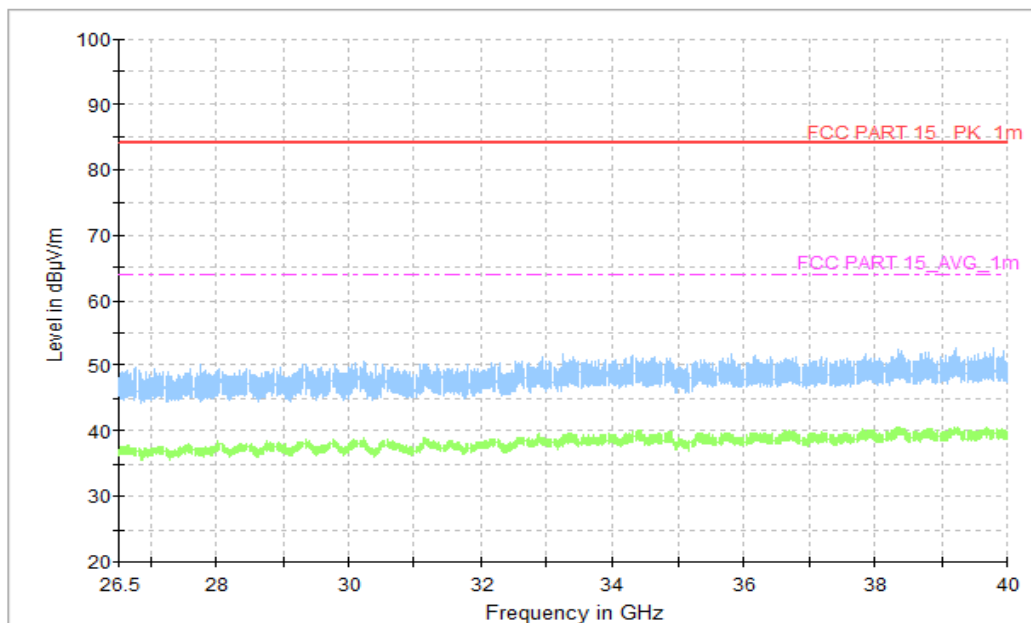


Figure A.1.36. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: PC TO EUT, 26.5GHz to 40GHz)

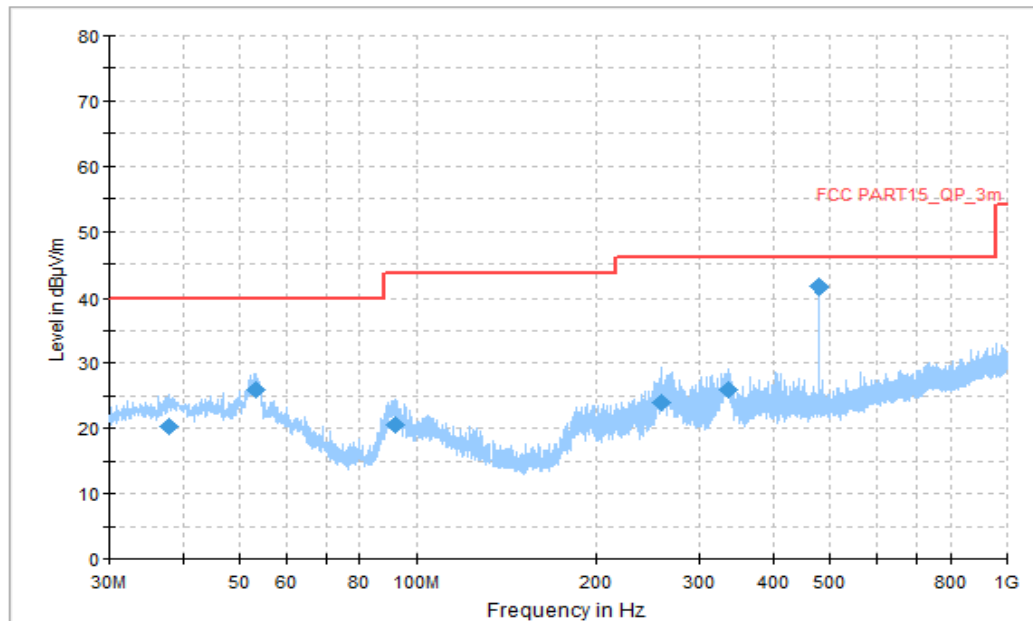


Figure A.1.37. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: PC TO TF, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
37.975556	20.33	40.00	19.67	V	-13.9	34.23
53.333889	25.97	40.00	14.03	V	-14.1	40.07
92.133889	20.52	43.52	23.00	V	-16.0	36.52
257.734444	24.09	46.02	21.93	H	-13.4	37.49
334.957222	26.00	46.02	20.02	V	-10.4	36.4
480.026111	41.50	46.02	4.52	V	-7.2	48.70

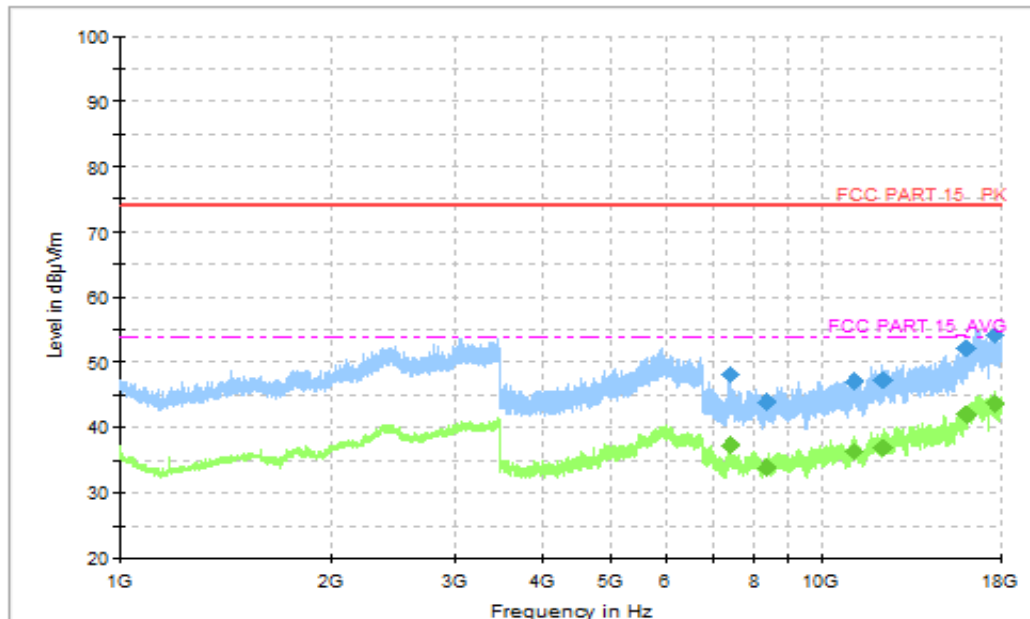


Figure A.1.38. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: PC TO TF, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7409.538462	48.23	74.00	25.77	H	7.0	41.23
8345.538462	44.04	74.00	29.96	H	7.1	36.94
11150.769231	47.17	74.00	26.83	V	10.5	36.67
12255.230769	47.30	74.00	26.70	H	12.3	35.00
16098.000000	52.38	74.00	21.62	H	16.5	35.88
17720.307692	54.23	74.00	19.77	V	20.5	33.73

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7409.538462	37.32	54.00	16.68	H	7.0	30.32
8345.538462	33.87	54.00	20.13	H	7.1	26.77
11150.769231	36.49	54.00	17.51	V	10.5	25.99
12255.230769	36.94	54.00	17.06	H	12.3	24.64
16098.000000	41.93	54.00	12.07	H	16.5	25.43
17720.307692	43.62	54.00	10.38	V	20.5	23.12

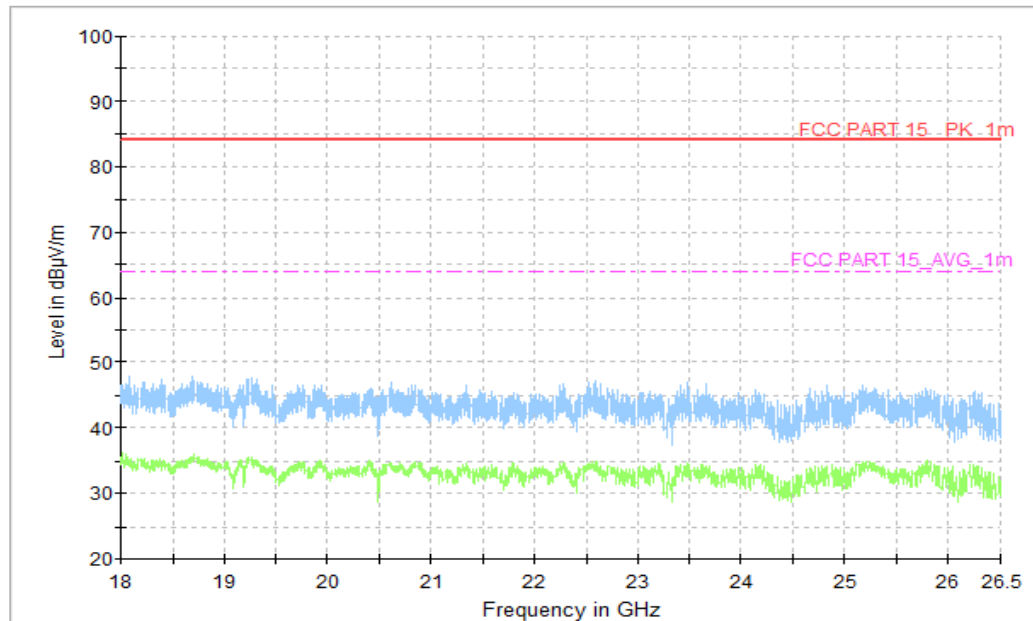


Figure A.1.39. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: PC TO TF, 18GHz to 26.5GHz)

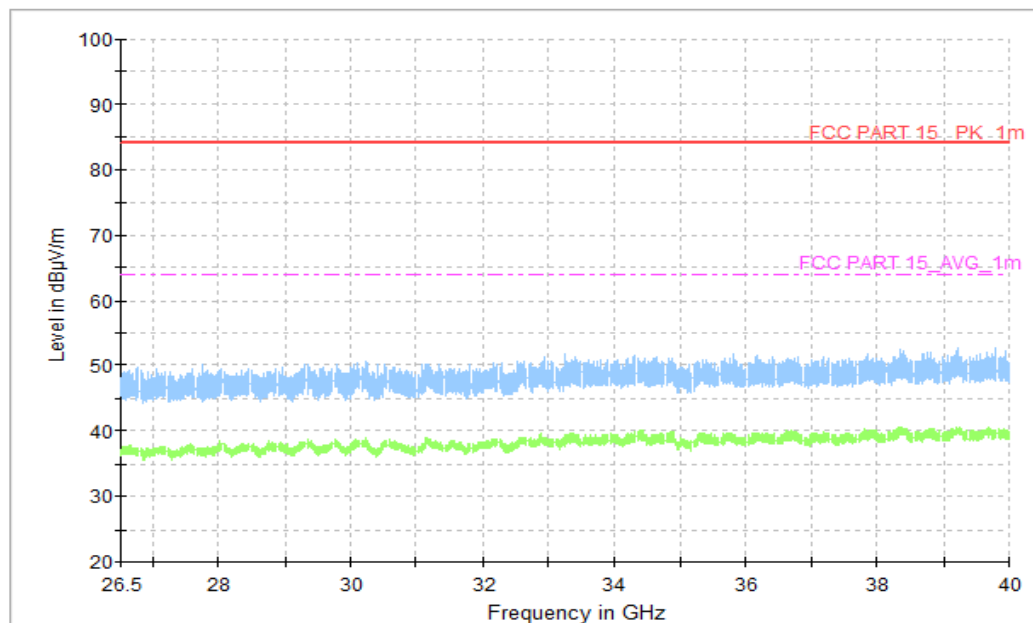


Figure A.1.40. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: PC TO TF, 26.5GHz to 40GHz)

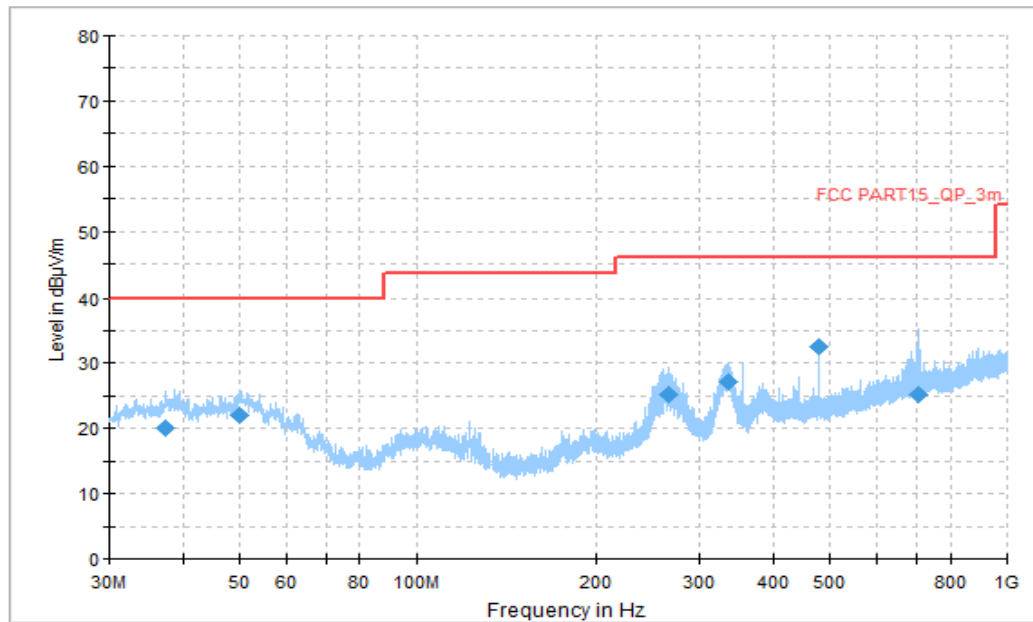


Figure A.1.41. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: TF TO PC, 30MHz to 1GHz)

Final Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
37.328889	20.14	40.00	19.86	V	-14.0	34.14
50.046667	21.94	40.00	18.06	V	-13.3	35.24
264.955556	25.31	46.02	20.71	H	-13.3	38.61
335.226667	27.13	46.02	18.89	V	-10.4	37.53
480.026111	32.45	46.02	13.57	V	-7.2	39.65
708.946111	25.19	46.02	20.83	H	-3.5	28.69

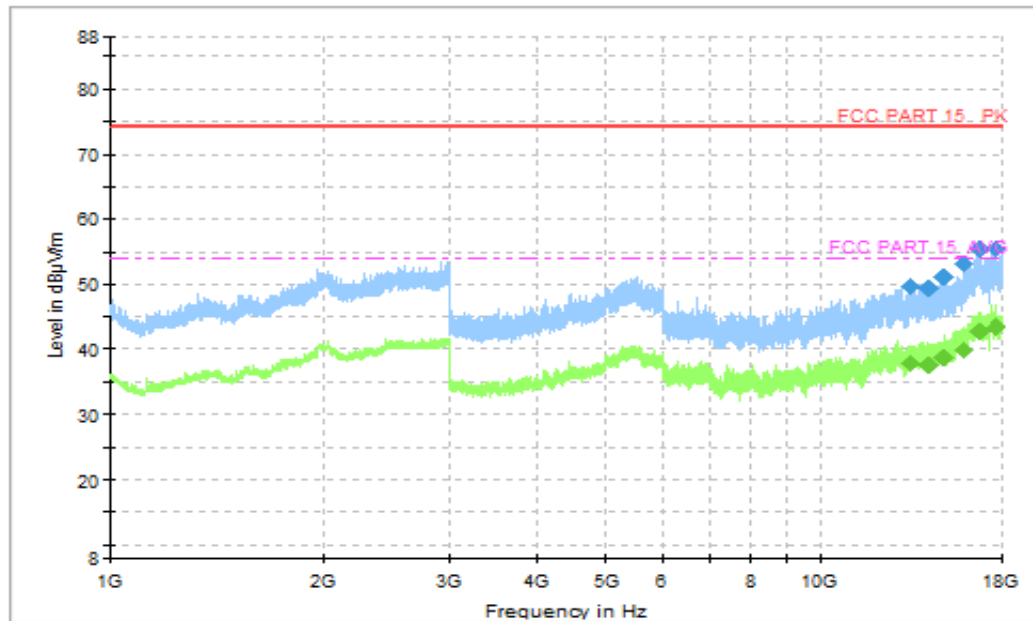


Figure A.1.42. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: TF TO PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
13391.571429	49.70	74.00	24.30	H	13.0	36.70
14199.000000	49.41	74.00	24.59	H	13.3	36.11
14939.571429	51.08	74.00	22.92	V	15.0	36.08
15919.285714	52.95	74.00	21.05	V	15.1	37.85
16741.714286	55.37	74.00	18.63	H	18.8	36.57
17678.571429	55.37	74.00	18.63	H	20.6	34.77

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
13391.571429	37.85	54.00	16.15	H	13.0	24.85
14199.000000	37.63	54.00	16.37	H	13.3	24.33
14939.571429	38.84	54.00	15.16	V	15.0	23.84
15919.285714	39.74	54.00	14.26	V	15.1	24.64
16741.714286	42.80	54.00	11.20	H	18.8	24
17678.571429	43.39	54.00	10.61	H	20.6	22.79

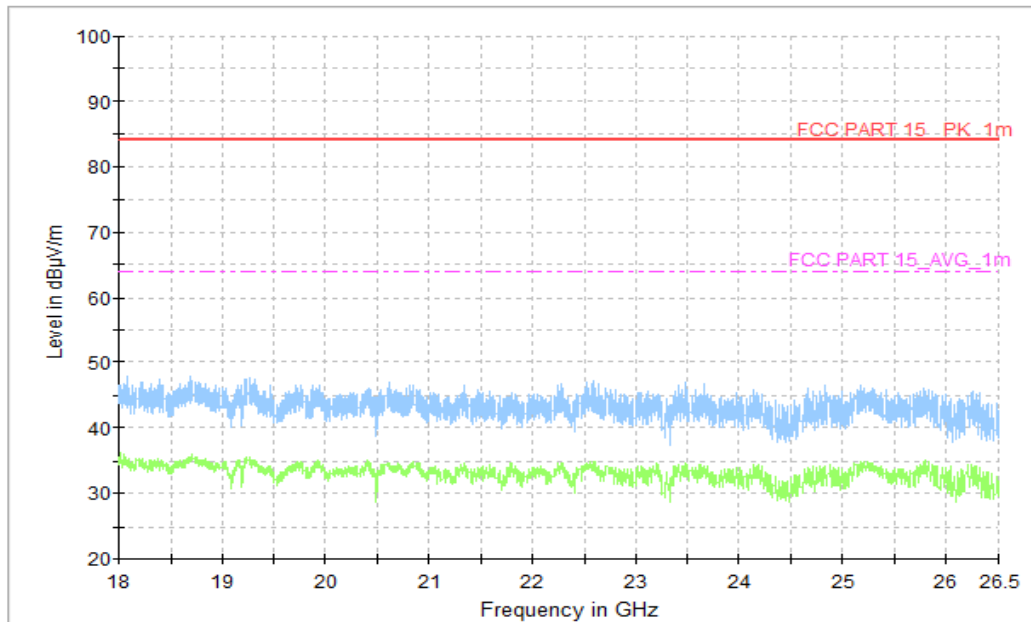


Figure A.1.43. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: TF TO PC, 18GHz to 26.5GHz)

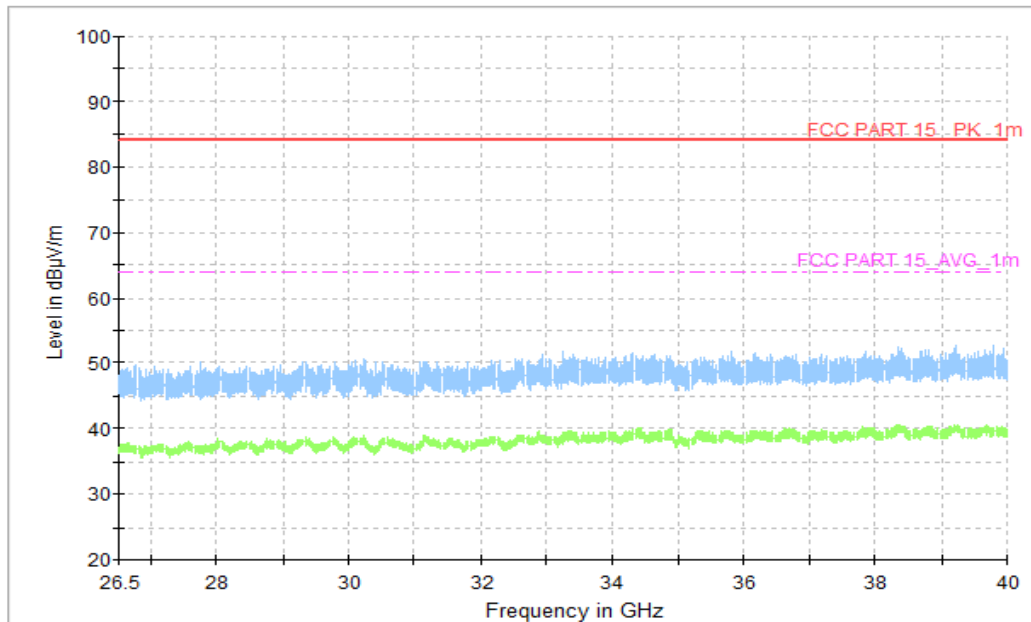


Figure A.1.44. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: TF TO PC, 26.5GHz to 40GHz)

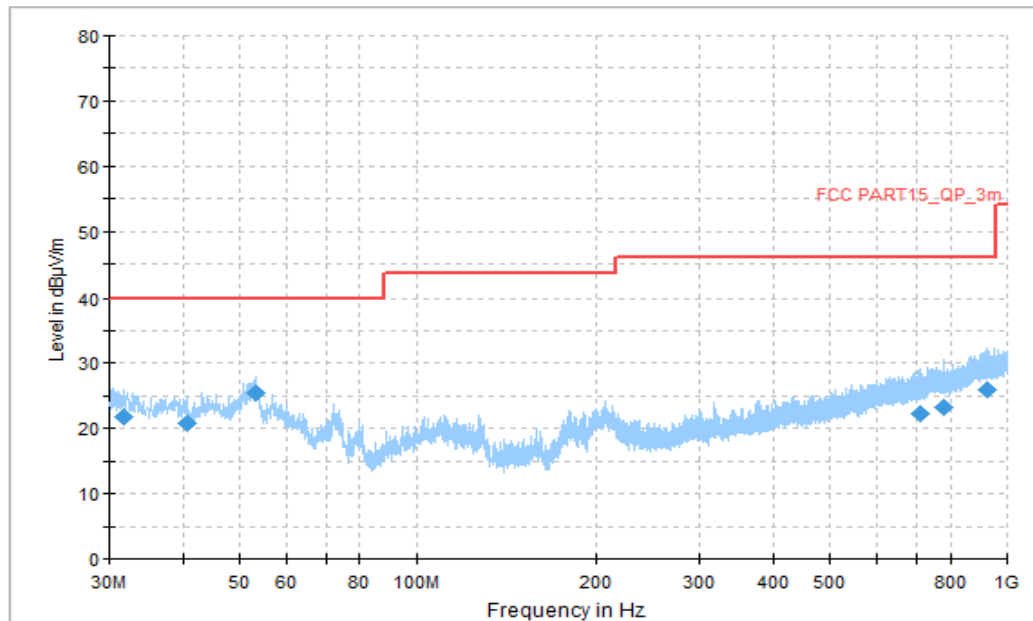


Figure A.1.45. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Wireless Power Transfer, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
31.724444	21.69	40.00	18.31	V	-15.2	36.89
40.562222	20.71	40.00	19.29	V	-13.4	34.11
53.333889	25.54	40.00	14.46	V	-14.1	39.64
709.431111	22.25	46.02	23.77	V	-3.5	25.75
777.816111	23.29	46.02	22.73	V	-2.3	25.59
923.316111	25.84	46.02	20.18	V	0.3	25.54

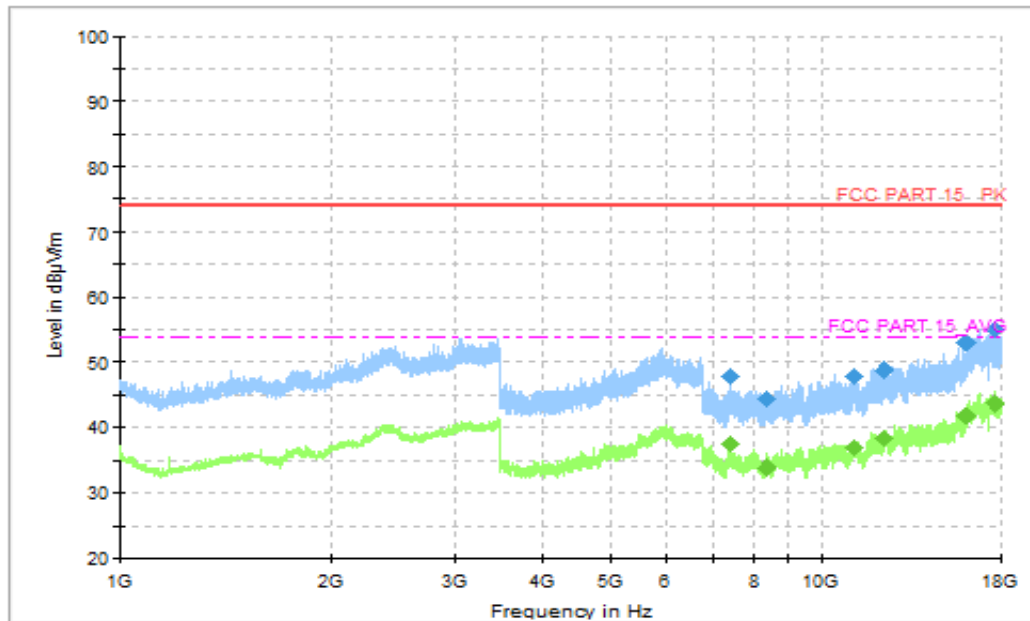


Figure A.1.46. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Wireless Power Transfer, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7412.769231	47.82	74.00	26.18	H	7.0	40.82
8355.230769	44.56	74.00	29.44	H	7.3	37.26
11098.615385	47.83	74.00	26.17	V	10.9	36.93
12326.307692	48.97	74.00	25.03	H	12.7	36.27
16101.230769	52.97	74.00	21.03	H	16.5	36.47
17723.538462	54.95	74.00	19.05	V	20.5	34.45

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7412.769231	37.54	54.00	16.46	H	7.0	30.54
8355.230769	33.88	54.00	20.12	H	7.3	26.58
11098.615385	36.99	54.00	17.01	V	10.9	26.09
12326.307692	38.34	54.00	15.66	H	12.7	25.64
16101.230769	41.70	54.00	12.30	H	16.5	25.2
17723.538462	43.75	54.00	10.25	V	20.5	23.25

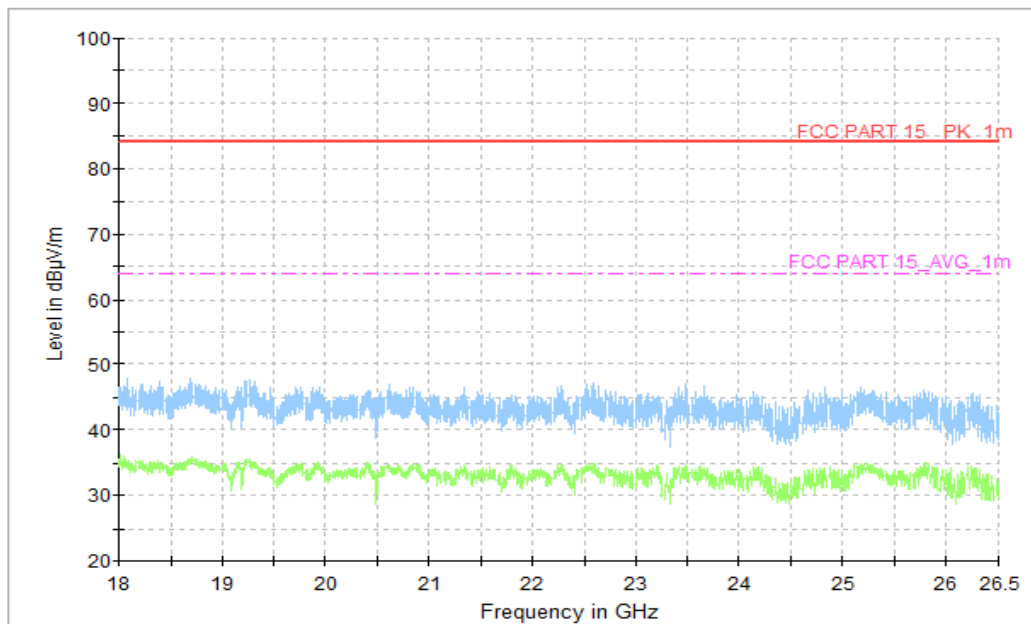


Figure A.1.47. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Wireless Power Transfer, 18GHz to 26.5GHz)

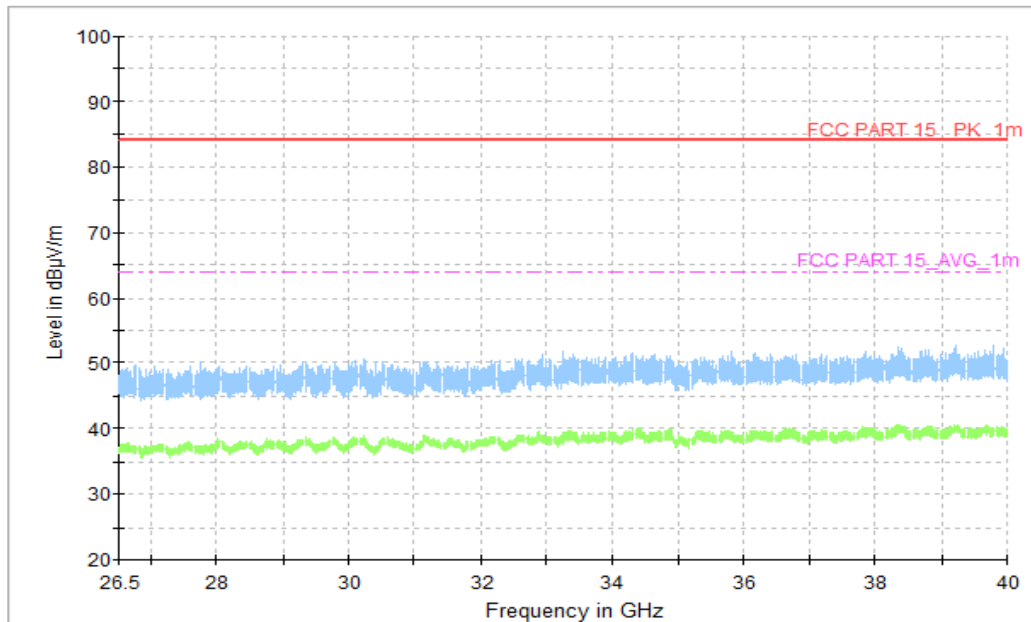


Figure A.1.48. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Wireless Power Transfer, 26.5GHz to 40GHz)

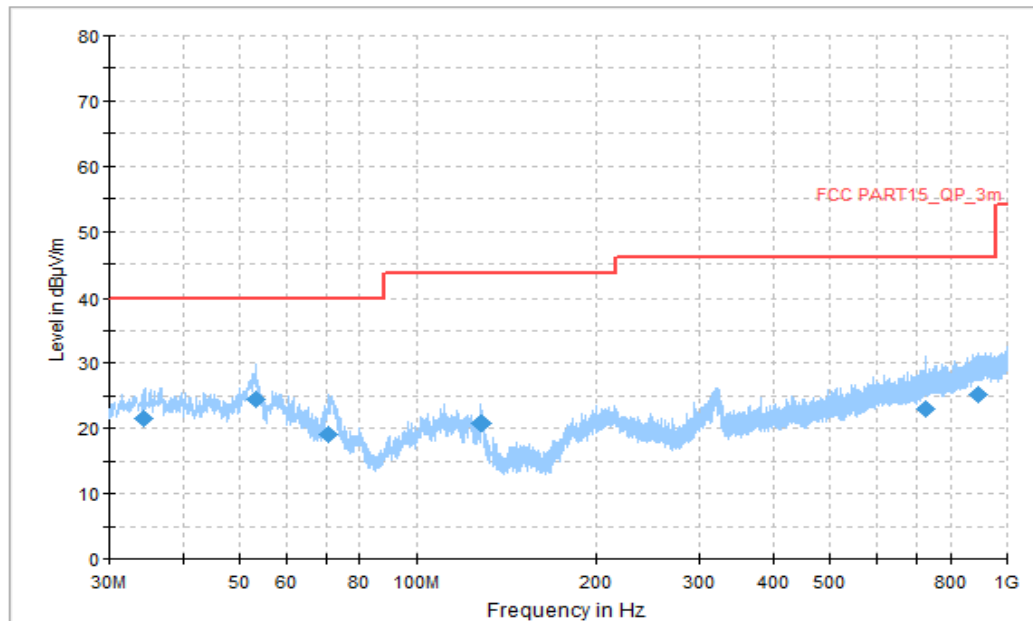


Figure A.1.49. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
34.203333	21.63	40.00	18.38	V	-14.7	36.33
53.333889	24.50	40.00	15.50	V	-14.1	38.6
70.578333	18.98	40.00	21.02	V	-17.5	36.48
127.970000	20.71	43.52	22.81	V	-17.8	38.51
727.699444	22.96	46.02	23.06	V	-2.9	25.86
891.629444	25.19	46.02	20.83	H	-0.2	25.39

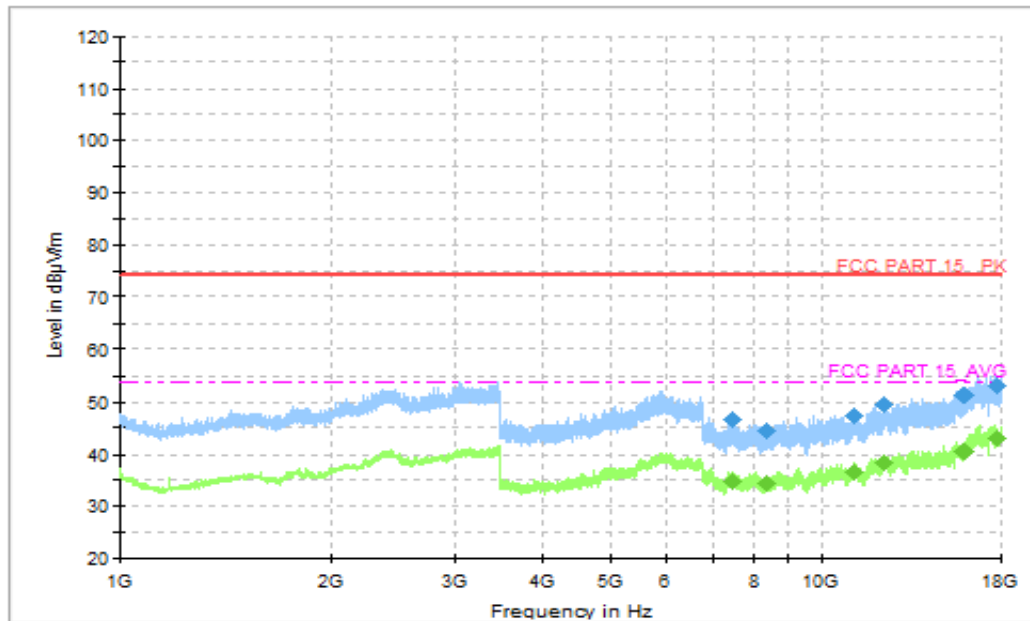


Figure A.1.50. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7473.692308	46.55	74.00	27.45	V	7.0	39.55
8354.307692	44.58	74.00	29.42	V	7.3	37.28
11109.230769	47.26	74.00	26.74	V	10.9	36.36
12333.692308	49.26	74.00	24.74	H	12.7	36.56
16014.461539	51.12	74.00	22.88	V	15.6	35.52
17735.538462	53.11	74.00	20.89	H	20.5	32.61

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7473.692308	34.77	54.00	19.23	V	7.0	27.77
8354.307692	34.24	54.00	19.76	V	7.3	26.94
11109.230769	36.49	54.00	17.51	V	10.9	25.59
12333.692308	38.36	54.00	15.64	H	12.7	25.66
16014.461539	40.37	54.00	13.63	V	15.6	24.77
17735.538462	43.04	54.00	10.96	H	20.5	22.54

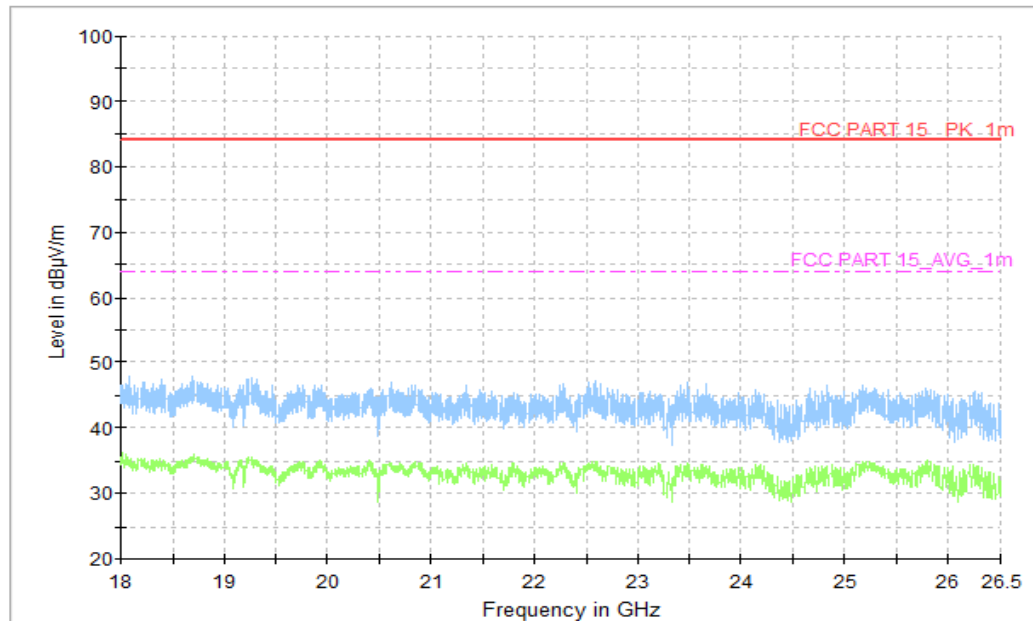


Figure A.1.51. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging, 18GHz to 26.5GHz)

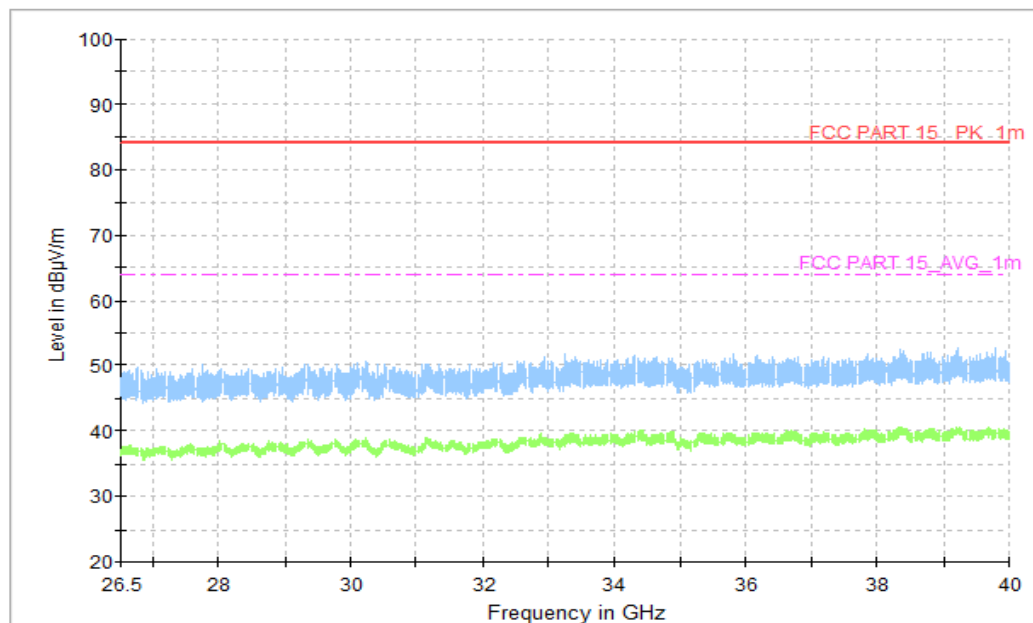


Figure A.1.52. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging, 26.5GHz to 40GHz)

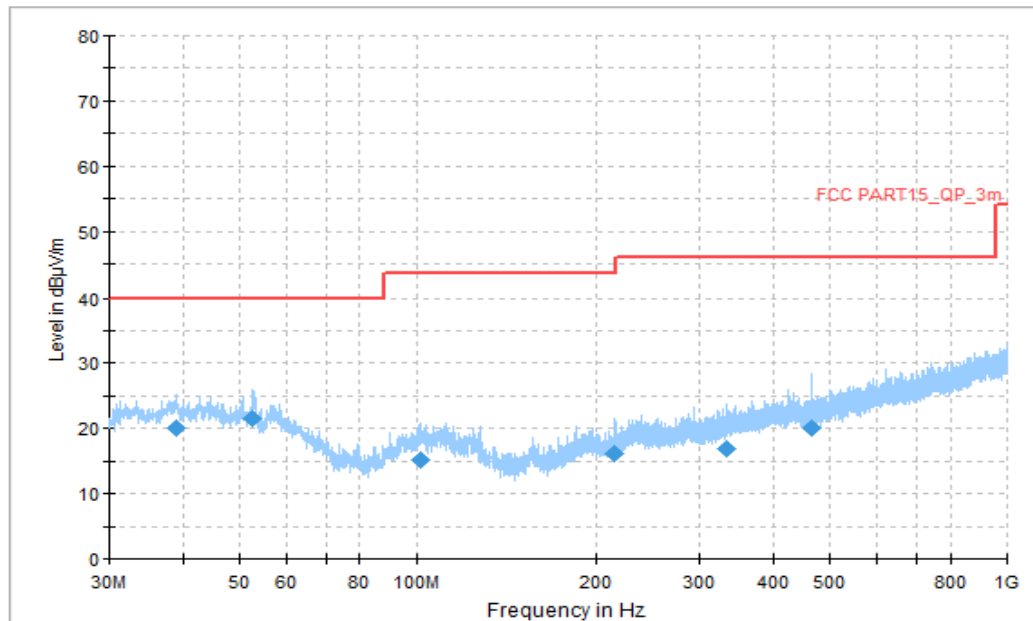


Figure A.1.53. Radiated Emission (Band 2.4GHz Wi-Fi Idle+Bluetooth Idle+NFC Idle+Front Camera+Video Player+Data Transfer, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
39.053333	20.08	40.00	19.92	H	-13.7	33.78
52.525556	21.46	40.00	18.54	V	-13.9	35.36
101.672222	15.15	43.52	28.37	H	-14.5	29.65
215.054444	16.25	43.52	27.27	H	-15.2	31.45
333.125000	16.81	46.02	29.21	H	-10.6	27.41
465.691667	20.08	46.02	25.94	H	-7.5	27.58

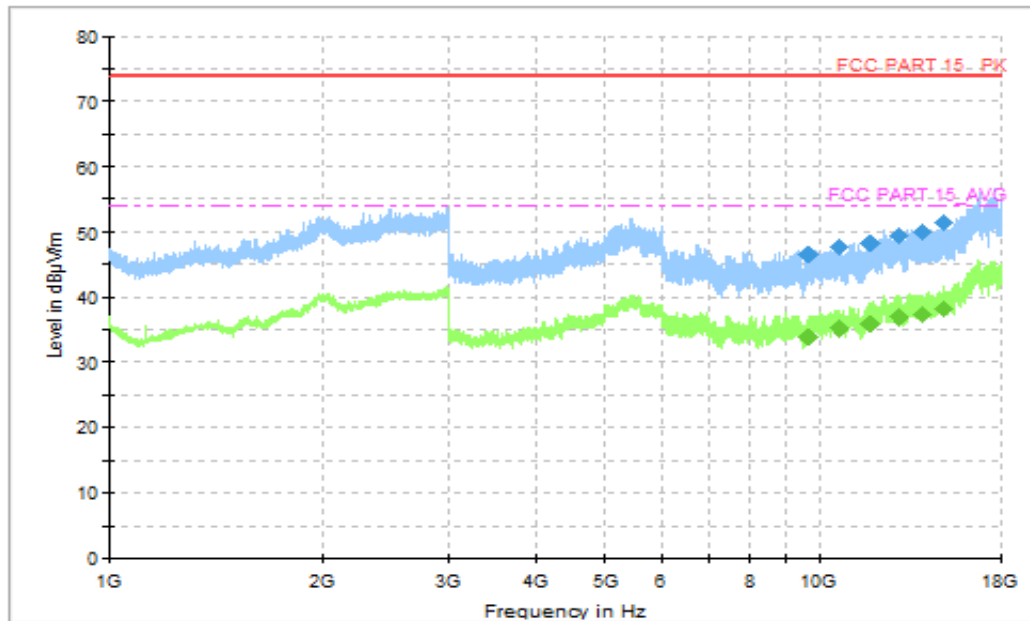


Figure A.1.54. Radiated Emission (Band 2.4GHz Wi-Fi Idle+Bluetooth Idle+NFC Idle+Front Camera+Video Player+Data Transfer, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
9672.857143	46.47	74.00	27.53	V	8.7	37.77
10653.428572	47.73	74.00	26.27	H	9.9	37.83
11825.142857	48.12	74.00	25.88	V	12.2	35.92
12960.000000	49.31	74.00	24.69	H	12.9	36.41
13956.428572	49.81	74.00	24.19	H	13.0	36.81
15037.714286	51.41	74.00	22.59	H	14.0	37.41

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
9672.857143	34.10	54.00	19.90	V	8.7	25.40
10653.428572	35.30	54.00	18.70	H	9.9	25.4
11825.142857	35.98	54.00	18.02	V	12.2	23.78
12960.000000	36.88	54.00	17.12	H	12.9	23.98
13956.428572	37.41	54.00	16.59	H	13.0	24.41
15037.714286	38.21	54.00	15.79	H	14.0	24.21

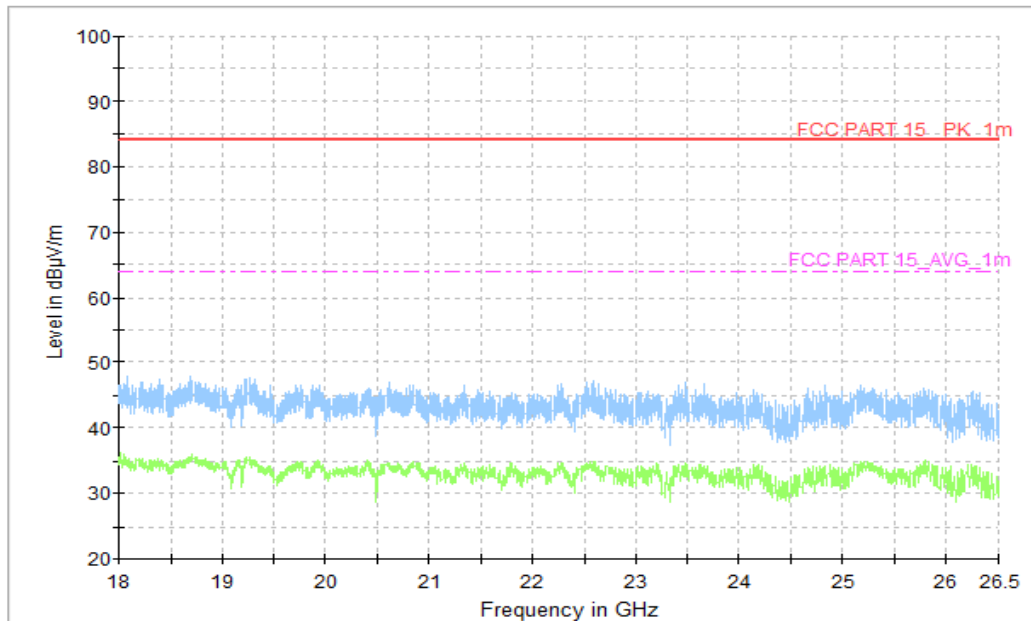


Figure A.1.55. Radiated Emission (Band 2.4GHz Wi-Fi Idle+Bluetooth Idle+NFC Idle+Front Camera+Video Player+Data Transfer, 18GHz to 26.5GHz)

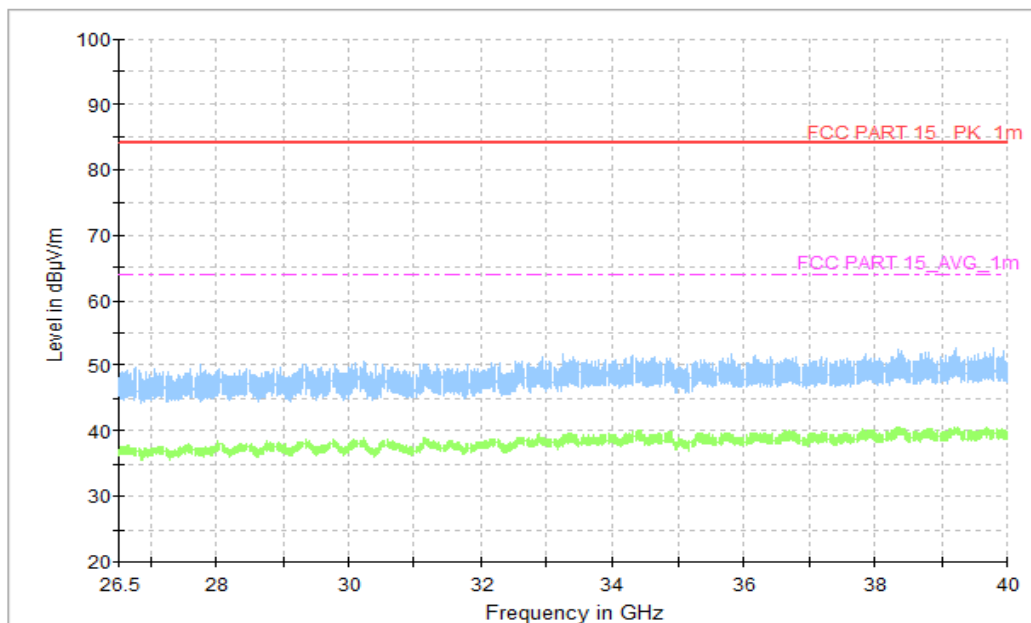


Figure A.1.56. Radiated Emission (Band 2.4GHz Wi-Fi Idle+Bluetooth Idle+NFC Idle+Front Camera+Video Player+Data Transfer, 26.5GHz to 40GHz)

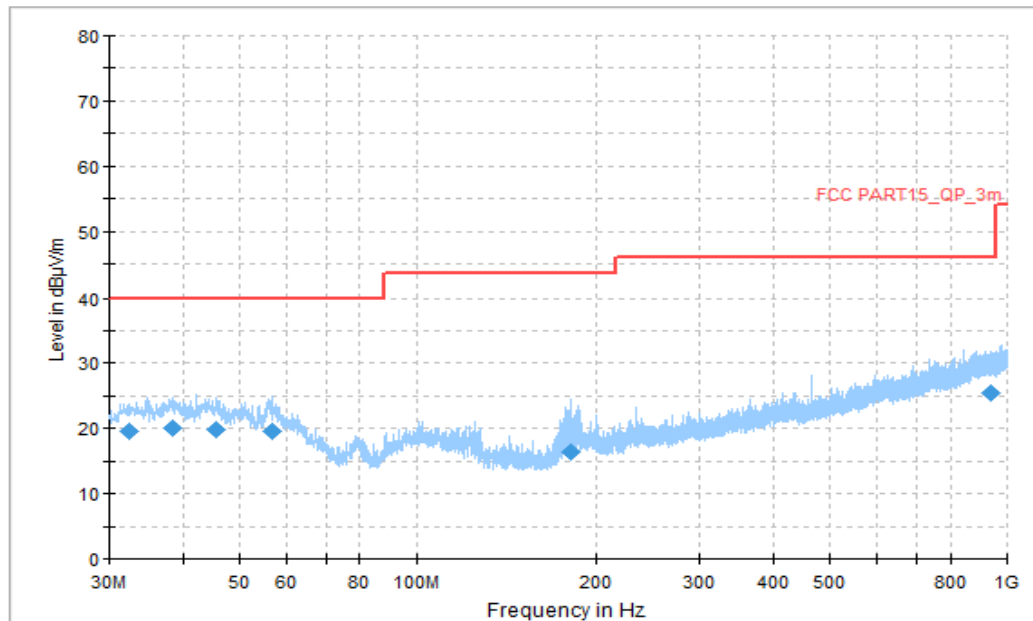


Figure A.1.57. Radiated Emission (Band 5GHz Wi-Fi Idle+Bluetooth Idle+Front Camera+Video Player+Data Transfer, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
32.478889	19.67	40.00	20.33	V	-15.1	34.77
38.568333	20.01	40.00	20.00	V	-13.8	33.81
45.520000	19.76	40.00	20.24	H	-13.1	32.86
56.728889	19.46	40.00	20.54	H	-12.7	32.16
181.751111	16.51	43.52	27.01	V	-16.4	32.91
938.351111	25.40	46.02	20.62	H	0.2	25.20

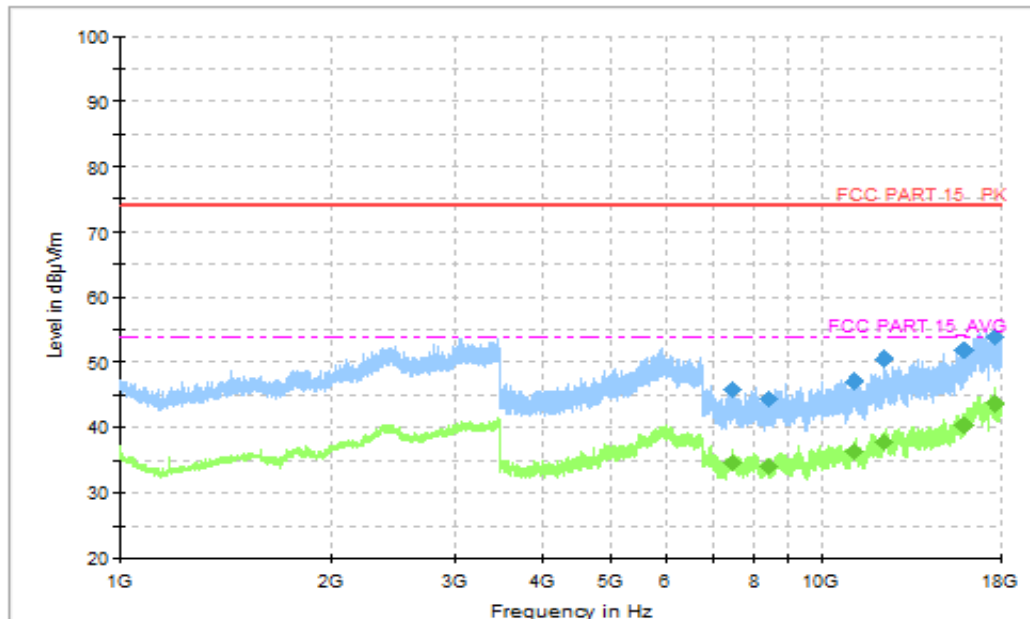


Figure A.1.58. Radiated Emission (Band 5GHz Wi-Fi Idle+Bluetooth Idle+Front Camera+Video Player+Data Transfer, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7473.230769	45.86	74.00	28.14	V	7.0	38.86
8383.846154	44.46	74.00	29.54	V	7.8	36.66
11144.307692	47.25	74.00	26.75	H	10.6	36.65
12334.615385	50.57	74.00	23.43	H	12.7	37.87
15934.153846	51.76	74.00	22.24	V	15.2	36.56
17713.846154	54.08	74.00	19.92	H	20.5	33.58

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
7473.230769	34.68	54.00	19.32	V	7.0	27.68
8383.846154	34.09	54.00	19.91	V	7.8	26.29
11144.307692	36.36	54.00	17.64	H	10.6	25.76
12334.615385	37.93	54.00	16.07	H	12.7	25.23
15934.153846	40.37	54.00	13.63	V	15.2	25.17
17713.846154	43.83	54.00	10.17	H	20.5	23.33

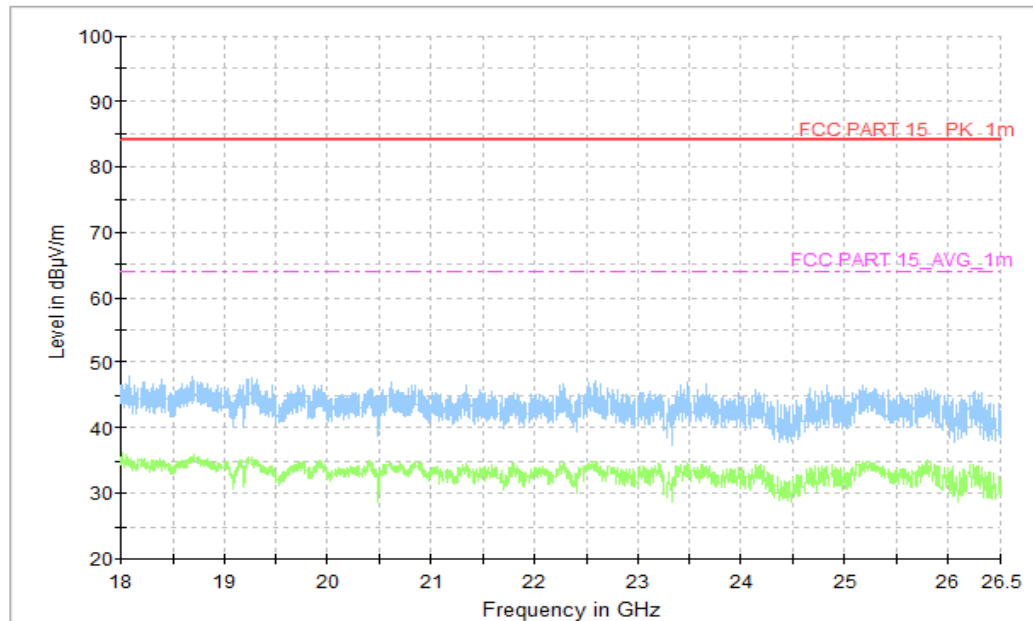


Figure A.1.59. Radiated Emission (Band 5GHz Wi-Fi Idle+Bluetooth Idle+Front Camera+Video Player+Data Transfer, 18GHz to 26.5GHz)

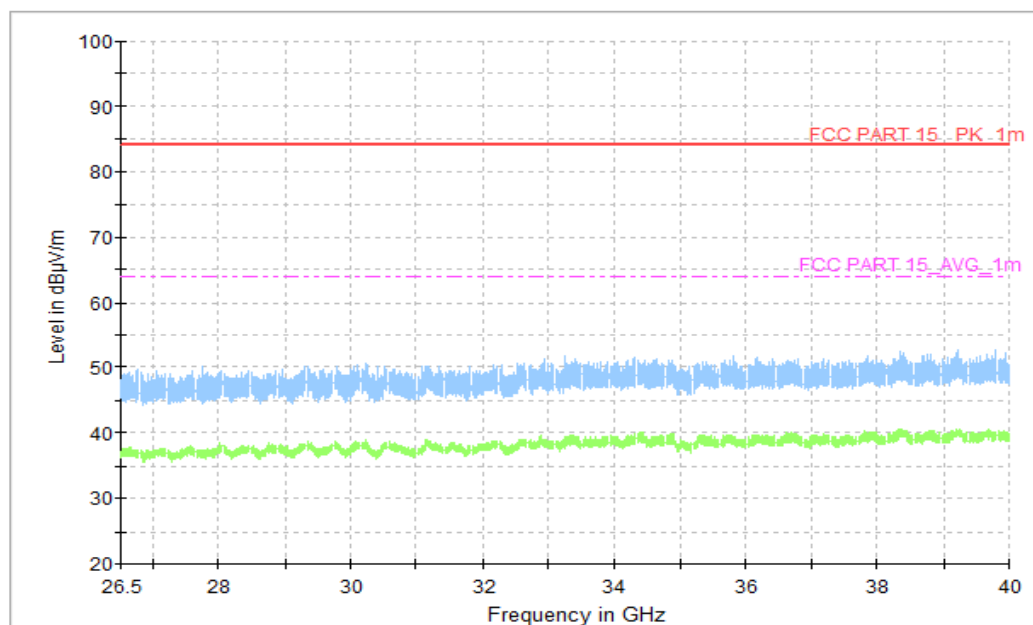


Figure A.1.60. Radiated Emission (Band 5GHz Wi-Fi Idle+Bluetooth Idle+Front Camera+Video Player+Data Transfer, 26.5GHz to 40GHz)

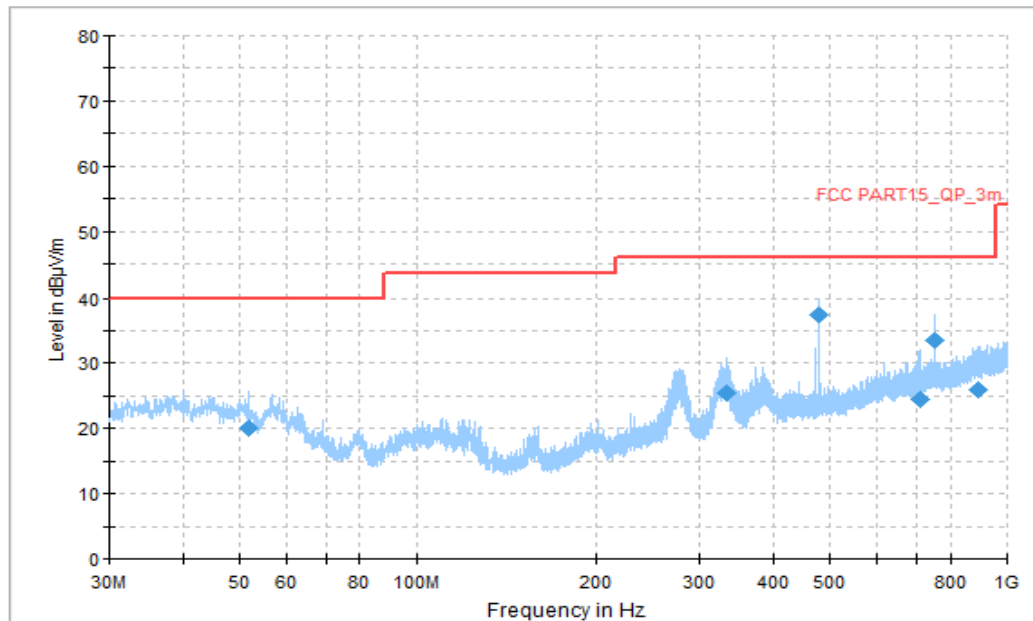


Figure A.1.61. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: PC TO EUT, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
51.663333	19.97	40.00	20.03	V	-13.7	33.67
333.017222	25.44	46.02	20.58	H	-10.6	36.04
479.972222	37.47	46.02	8.55	V	-7.2	44.67
711.047778	24.55	46.02	21.47	V	-3.5	28.05
754.374444	33.57	46.02	12.45	V	-2.0	35.57
895.994444	25.83	46.02	20.19	H	-0.2	26.03

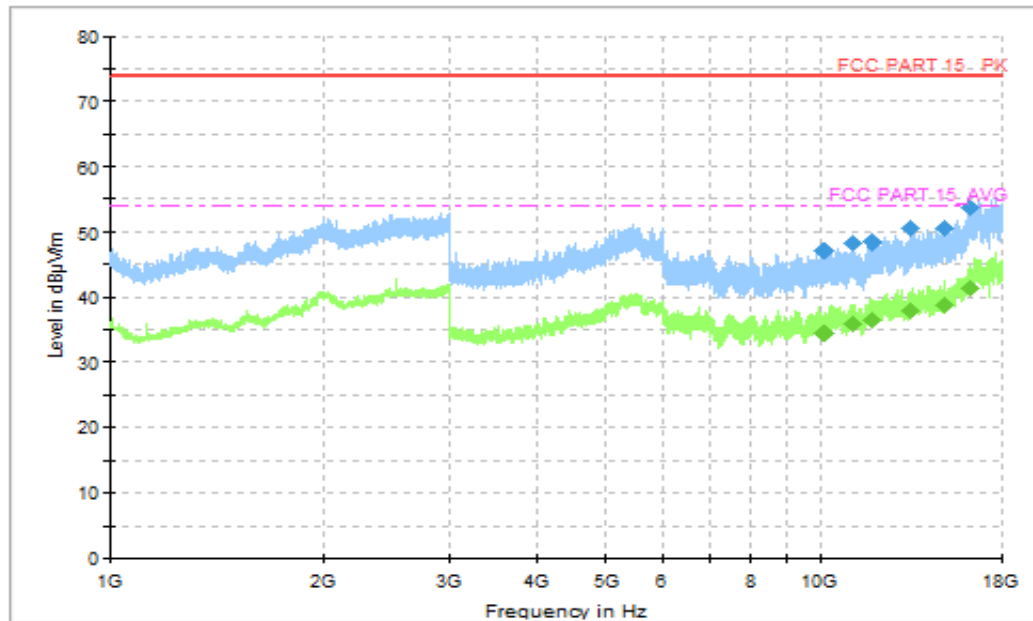


Figure A.1.62. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: PC TO EUT, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
10132.285714	47.11	74.00	26.89	V	9.8	37.31
11088.857143	48.22	74.00	25.78	V	11.0	37.22
11863.714286	48.46	74.00	25.54	H	12.1	36.36
13412.142857	50.66	74.00	23.34	H	13.0	37.66
14960.571429	50.75	74.00	23.25	V	14.8	35.95
16247.571429	53.79	74.00	20.21	H	16.9	36.89

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
10132.285714	34.53	54.00	19.47	V	9.8	24.73
11088.857143	36.00	54.00	18.00	V	11.0	25
11863.714286	36.45	54.00	17.55	H	12.1	24.35
13412.142857	38.01	54.00	15.99	H	13.0	25.01
14960.571429	38.90	54.00	15.10	V	14.8	24.1
16247.571429	41.28	54.00	12.72	H	16.9	24.38

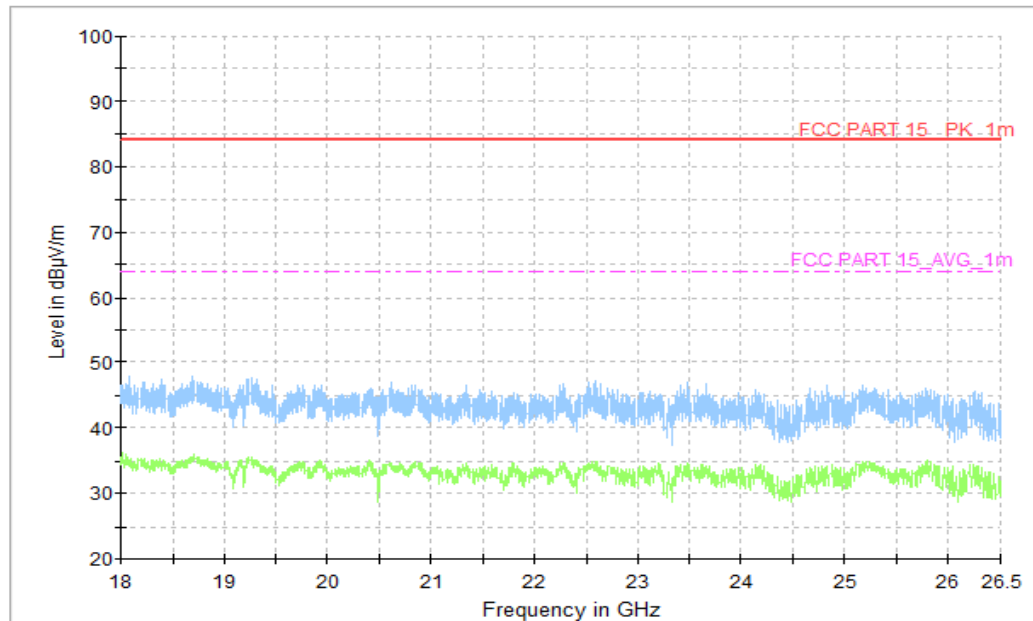


Figure A.1.63. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: PC TO EUT, 18GHz to 26.5GHz)

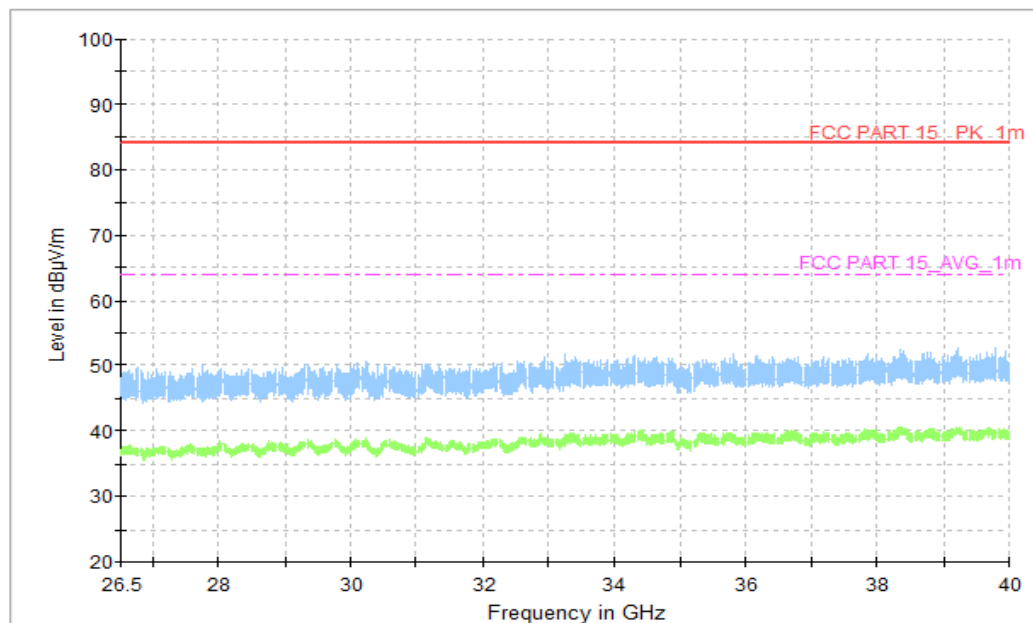


Figure A.1.64. Radiated Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Charging via POGO PIN+Data Transfer: PC TO EUT, 26.5GHz to 40GHz)

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:

Bluetooth: The EUT is synchronized to a System Simulator (SS). The Rx channel number is 0.

Wi-Fi: The EUT is synchronized to System Simulator (SS).

NFC: The EUT turns on NFC function.

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

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.

Wireless Power Transfer: Wireless power transfer is the transfer of energy between the EUT (wireless power source) and another EUT (wireless power client) through radio waves, with no electrical contact between the source and client devices, for the purpose of charging client devices wirelessly.

Glove mode: The EUT is operating in glove mode. In this mode, the touchscreen remains responsive to input from a gloved hand.

Scanning: The EUT is keeping on scanning barcode.

Ethernet Connection: EUT is connected to PC by unshielded Twisted Pair. After the EUT is allocated an IP address, a laptop is used to start a PING program to establish a communication link between this EUT and the laptop.

Charging via POGO PIN: The EUT is charging via pogo pin. In this mode, the device is connected to a charging dock or cable using pogo pins.

Display On: The EUT is keeping on playing a color bar video.

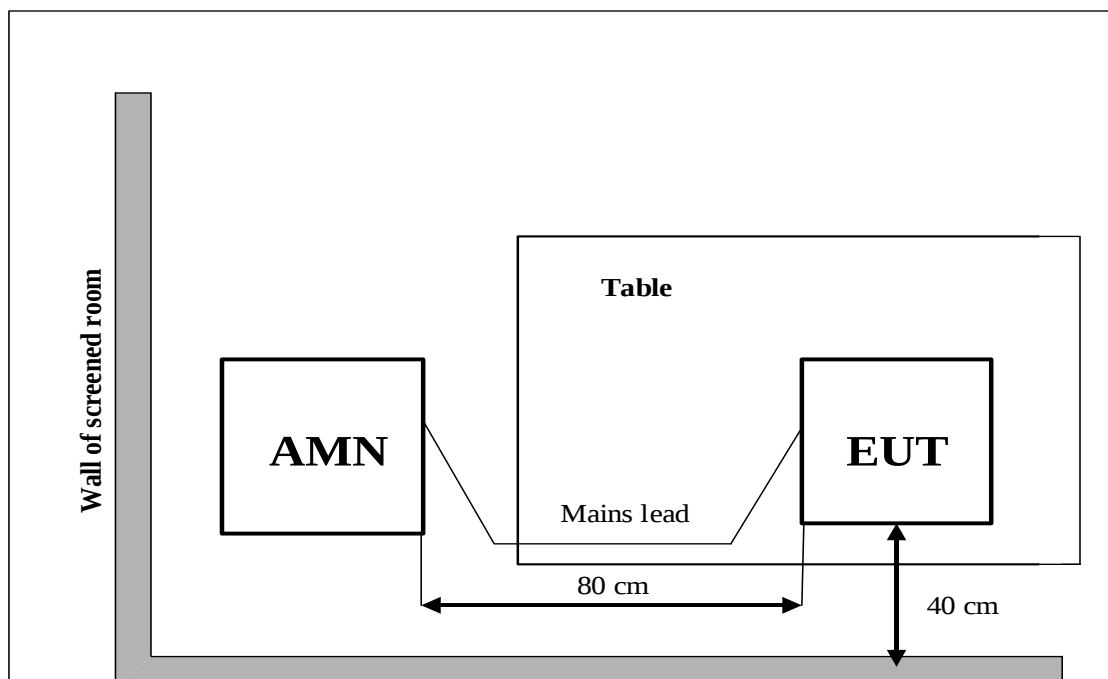
All equipment is placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions. For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

A.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.

Band 2.4GHz Wi-Fi+Bluetooth+Rear camera+Video Player+Charging

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
			UT03aa/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.

Band 2.4GHz Wi-Fi+Bluetooth+Rear camera+Video Player+Charging

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
			UT03aa/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.

Band 5GHz Wi-Fi+Bluetooth+Front camera+microphone+Scanning+Charging

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
			UT03aa/Set.1	
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.

Band 5GHz Wi-Fi+Bluetooth+Front camera+microphone+Scanning+Charging

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
			UT03aa/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.

Band 6GHz Wi-Fi+Bluetooth+Bluetooth headset+Scanning+Display on+Charging+Video Player
AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.7	
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.				

Band 6GHz Wi-Fi+Bluetooth+Bluetooth headset+Scanning+Display on+Charging+Video Player
AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.7	
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.				

Band 2.4GHz Wi-Fi+Bluetooth+NFC+Scanning+Rear camera+Video Player+Charging
AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/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.				

Band 2.4GHz Wi-Fi+Bluetooth+NFC+Scanning+Rear camera+Video Player+Charging
AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/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.				

Band 5GHz Wi-Fi+Bluetooth+Bluetooth headset+Scanning+Rear camera+Charging

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.7	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.9.	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.				

Band 5GHz Wi-Fi+Bluetooth+Bluetooth headset+Scanning+Rear camera+Charging

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.7	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.10.	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.				

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Charging

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.11.	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.				

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Charging

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.12.	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.				

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Charging via POGO PIN+Ethernet Connection

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.5	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.13.	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.				

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Charging via POGO PIN+Ethernet Connection

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.5	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.14.	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.				

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging via POGO PIN+Data transfer

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.5	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.15.	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.				

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging via POGO PIN+Data transfer

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.5	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.16.	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.				

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging via POGO PIN+Data transfer

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.5	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.17.	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.				

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging via POGO PIN+Data transfer

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.5	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.18.	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.				

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Wireless Power Transfer

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.6	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.19.	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.				

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Wireless Power Transfer

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.6	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.20.	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.				

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.21.	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.				

Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.22.	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.				

Band 2.4GHz Wi-Fi Idle+Bluetooth Idle+NFC Idle+Front Camera+Video Player+Charging

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.23.	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.				

Band 2.4GHz Wi-Fi Idle+Bluetooth Idle+NFC Idle+Front Camera+Video Player+Charging

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT03aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.24.	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

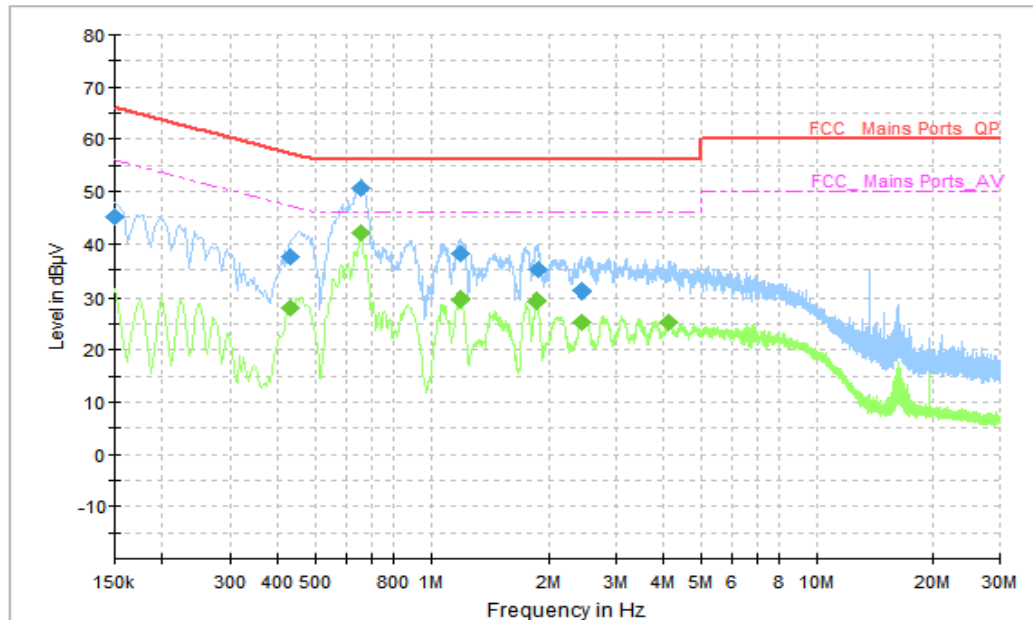


Figure A.2.1. Conducted Emission (Band 2.4GHz Wi-Fi+Bluetooth+Rear camera+Video Player+Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.150000	45.26	66.00	20.74	L1	10	35.26
0.430000	37.41	57.25	19.85	N	10	27.41
0.658000	50.52	56.00	5.48	L1	10	40.52
1.190000	38.02	56.00	17.98	N	10	28.02
1.878000	35.15	56.00	20.85	N	10	25.15
2.442000	30.97	56.00	25.03	N	10	20.97

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.430000	27.87	47.25	19.38	N	10	17.87
0.658000	41.95	46.00	4.05	L1	10	31.95
1.190000	29.52	46.00	16.48	L1	10	19.52
1.854000	29.12	46.00	16.88	L1	10	19.12
2.442000	25.29	46.00	20.71	N	10	15.29
4.122000	25.19	46.00	20.81	N	10	15.19

AC Input Port/ Voltage: 240V/60Hz

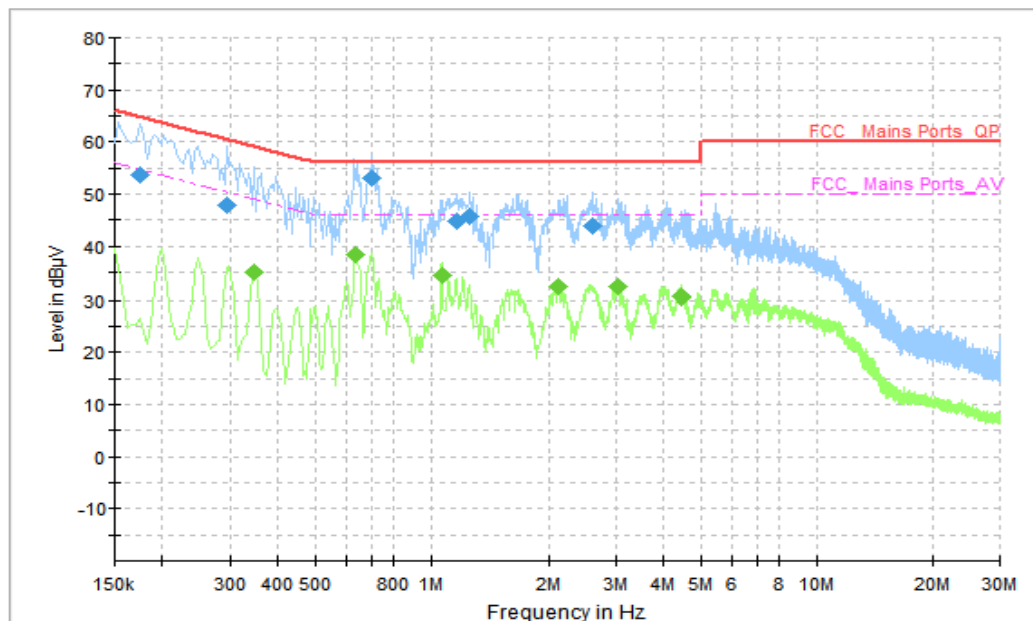


Figure A.2.2. Conducted Emission (Band 2.4GHz Wi-Fi+Bluetooth+Rear camera+Video Player+Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.174000	53.69	64.77	11.07	L1	10	43.69
0.294000	48.03	60.41	12.38	N	10	38.03
0.702000	52.99	56.00	3.01	N	10	42.99
1.170000	44.74	56.00	11.26	L1	10	34.74
1.262000	45.65	56.00	10.35	L1	10	35.65
2.602000	43.92	56.00	12.08	L1	10	33.92

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.346000	35.17	49.06	13.88	L1	10	25.17
0.638000	38.39	46.00	7.61	L1	10	28.39
1.066000	34.47	46.00	11.53	N	10	24.47
2.118000	32.37	46.00	13.63	L1	10	22.37
3.034000	32.18	46.00	13.82	L1	10	22.18
4.418000	30.56	46.00	15.44	L1	10	20.56

AC Input Port/ Voltage: 120V/60Hz

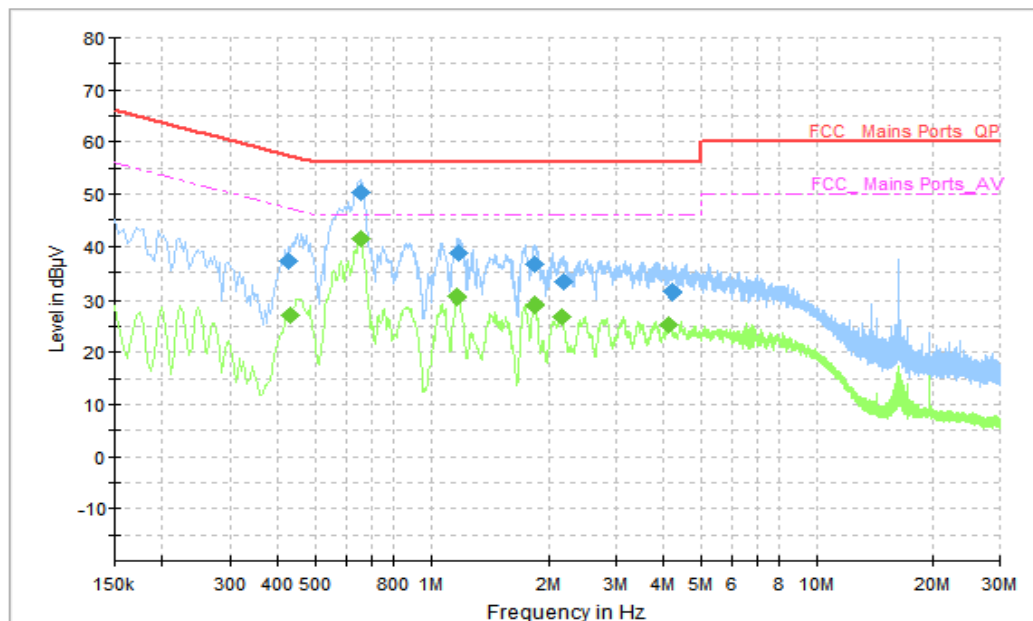


Figure A.2.3. Conducted Emission(Band 5GHz Wi-Fi+Bluetooth+Front camera+microphone+Scanning+Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.426000	37.21	57.33	20.12	N	10	27.21
0.658000	50.34	56.00	5.66	N	10	40.34
1.178000	38.70	56.00	17.30	L1	10	28.70
1.850000	36.54	56.00	19.46	N	10	26.54
2.190000	33.24	56.00	22.76	L1	10	23.24
4.194000	31.37	56.00	24.63	N	10	21.37

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.430000	27.11	47.25	20.14	L1	10	17.11
0.654000	41.46	46.00	4.54	N	10	31.46
1.166000	30.51	46.00	15.49	L1	10	20.51
1.842000	29.03	46.00	16.97	N	10	19.03
2.162000	26.71	46.00	19.29	L1	10	16.71
4.094000	25.13	46.00	20.87	N	10	15.13

AC Input Port/ Voltage: 240V/60Hz

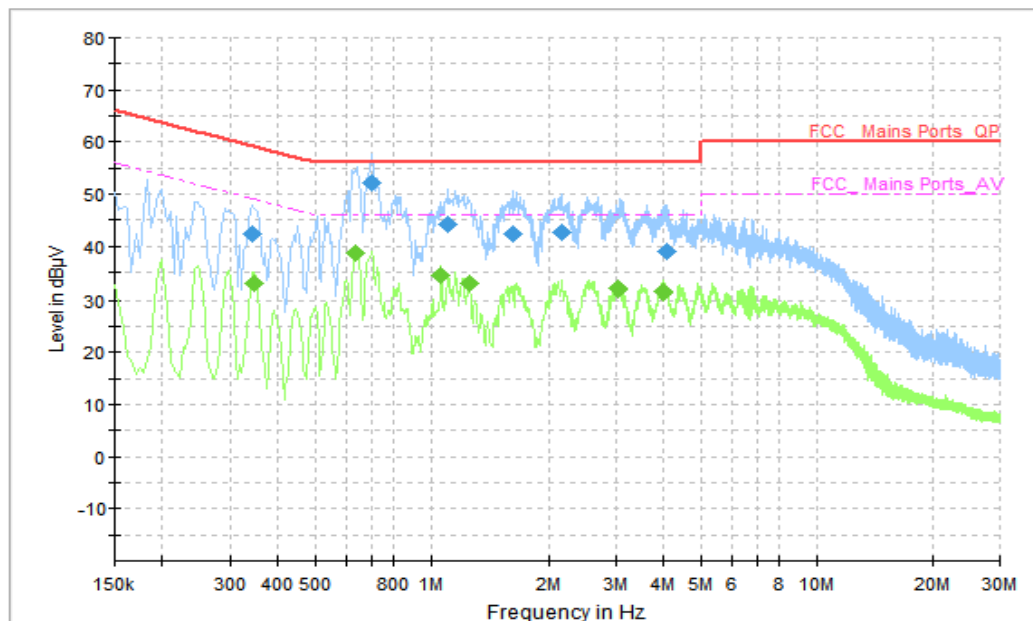


Figure A.2.4. Conducted Emission (Band 5GHz Wi-Fi+Bluetooth+Front camera+microphone+Scanning+Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.342000	42.52	59.16	16.64	L1	10	32.52
0.702000	52.26	56.00	3.74	L1	10	42.26
1.106000	44.11	56.00	11.89	N	10	34.11
1.610000	42.35	56.00	13.65	N	10	32.35
2.170000	42.54	56.00	13.46	N	10	32.54
4.058000	39.12	56.00	16.88	N	10	29.12

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.346000	32.96	49.06	16.09	L1	10	22.96
0.634000	38.82	46.00	7.18	L1	10	28.82
1.062000	34.44	46.00	11.56	N	10	24.44
1.254000	32.79	46.00	13.21	N	10	22.79
3.026000	31.92	46.00	14.08	N	10	21.92
4.002000	31.23	46.00	14.77	N	10	21.23

AC Input Port/ Voltage: 120V/60Hz

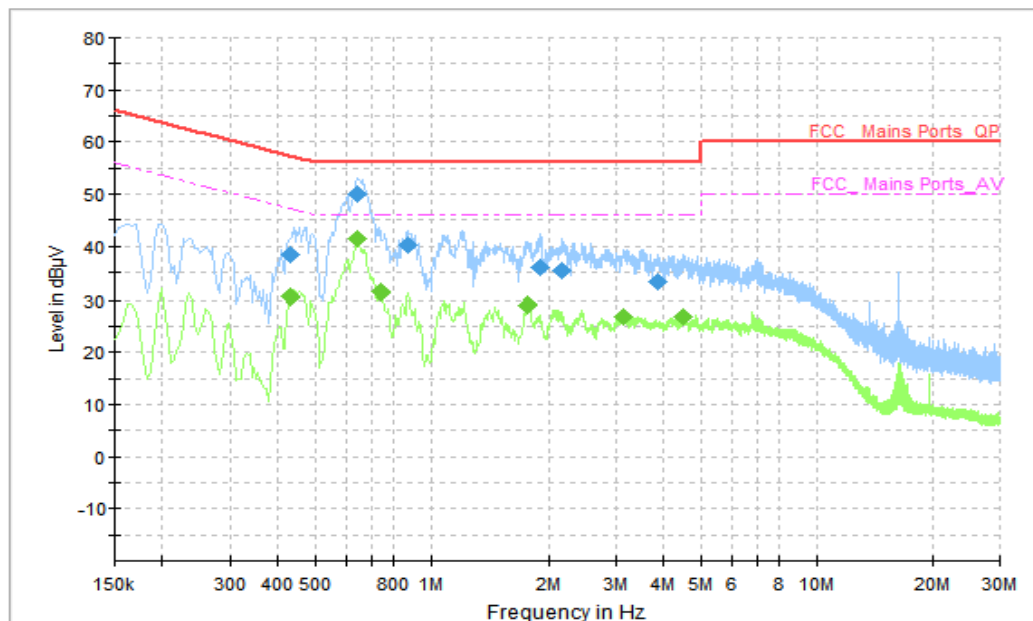


Figure A.2.5. Conducted Emission(Band 6GHz Wi-Fi+Bluetooth+Bluetooth headset+Scanning+Display on+Charging+Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.430000	38.29	57.25	18.96	L1	10	28.29
0.646000	50.00	56.00	6.00	N	10	40
0.870000	40.29	56.00	15.71	N	10	30.29
1.902000	36.11	56.00	19.89	N	10	26.11
2.178000	35.39	56.00	20.61	L1	10	25.39
3.862000	33.16	56.00	22.84	N	10	23.16

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.430000	30.48	47.25	16.77	L1	10	20.48
0.642000	41.55	46.00	4.45	N	10	31.55
0.738000	31.28	46.00	14.72	L1	10	21.28
1.762000	29.01	46.00	16.99	L1	10	19.01
3.146000	26.79	46.00	19.21	L1	10	16.79
4.474000	26.67	46.00	19.33	L1	10	16.67

AC Input Port/ Voltage: 240V/60Hz

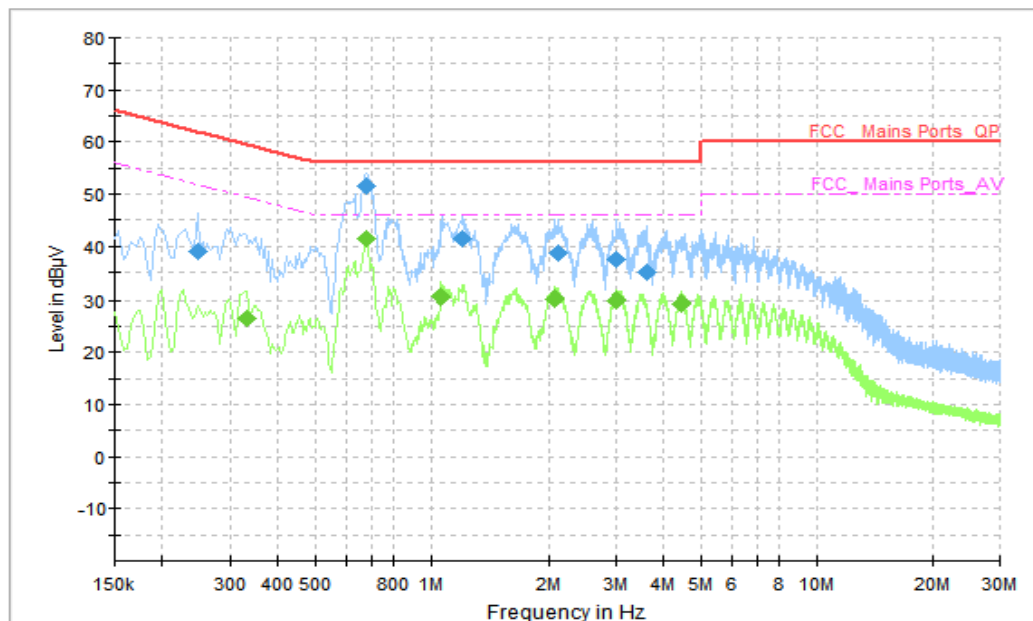


Figure A.2.6. Conducted Emission(Band 6GHz Wi-Fi+Bluetooth+Bluetooth headset+Scanning+Display on+Charging+Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.246000	38.92	61.89	22.97	L1	10	28.92
0.678000	51.60	56.00	4.40	N	10	41.6
1.206000	41.48	56.00	14.52	L1	10	31.48
2.110000	38.58	56.00	17.42	N	10	28.58
3.018000	37.49	56.00	18.51	L1	10	27.49
3.610000	35.10	56.00	20.90	L1	10	25.10

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.330000	26.46	49.45	22.99	N	10	16.46
0.678000	41.52	46.00	4.48	N	10	31.52
1.062000	30.33	46.00	15.67	N	10	20.33
2.082000	30.25	46.00	15.75	N	10	20.25
3.014000	29.74	46.00	16.26	N	10	19.74
4.462000	29.28	46.00	16.72	N	10	19.28

AC Input Port/ Voltage: 120V/60Hz

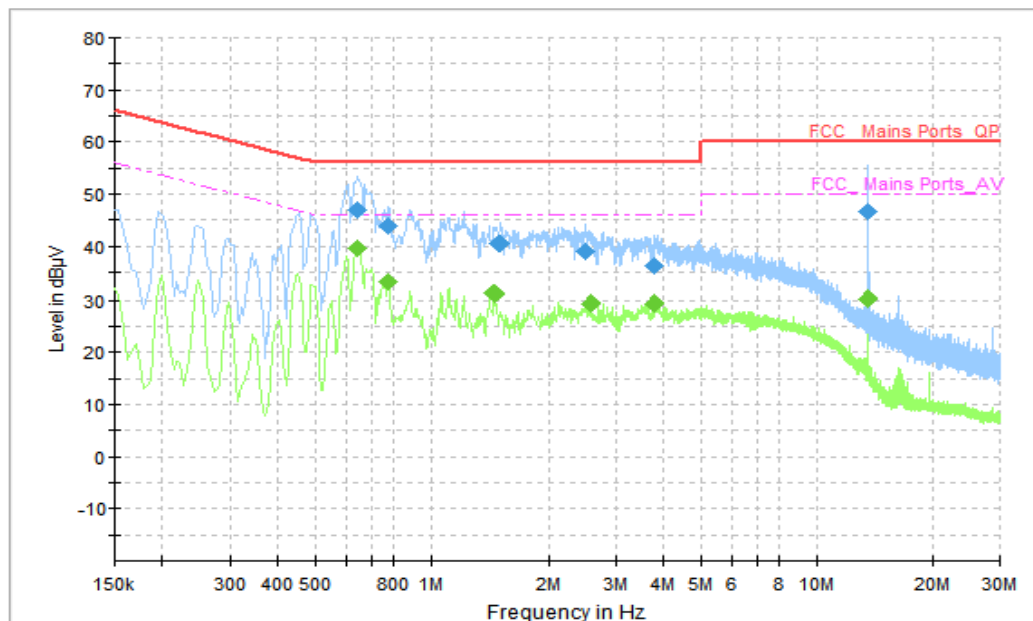


Figure A.2.7. Conducted Emission(Band 2.4GHz Wi-Fi+Bluetooth+NFC+Scanning+Rear camera+Video Player+Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.646000	46.87	56.00	9.13	L1	10	36.87
0.770000	43.79	56.00	12.21	L1	10	33.79
1.498000	40.41	56.00	15.59	N	10	30.41
2.490000	39.02	56.00	16.98	L1	10	29.02
3.790000	36.40	56.00	19.60	L1	10	26.4
13.558000	46.63	60.00	13.37	N	10	36.63

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.642000	39.74	46.00	6.26	L1	10	29.74
0.774000	33.29	46.00	12.71	L1	10	23.29
1.446000	31.19	46.00	14.81	N	10	21.19
2.566000	29.20	46.00	16.80	N	10	19.20
3.790000	29.24	46.00	16.76	L1	10	19.24
13.558000	30.14	50.00	19.86	N	10	20.14

AC Input Port/ Voltage: 240V/60Hz

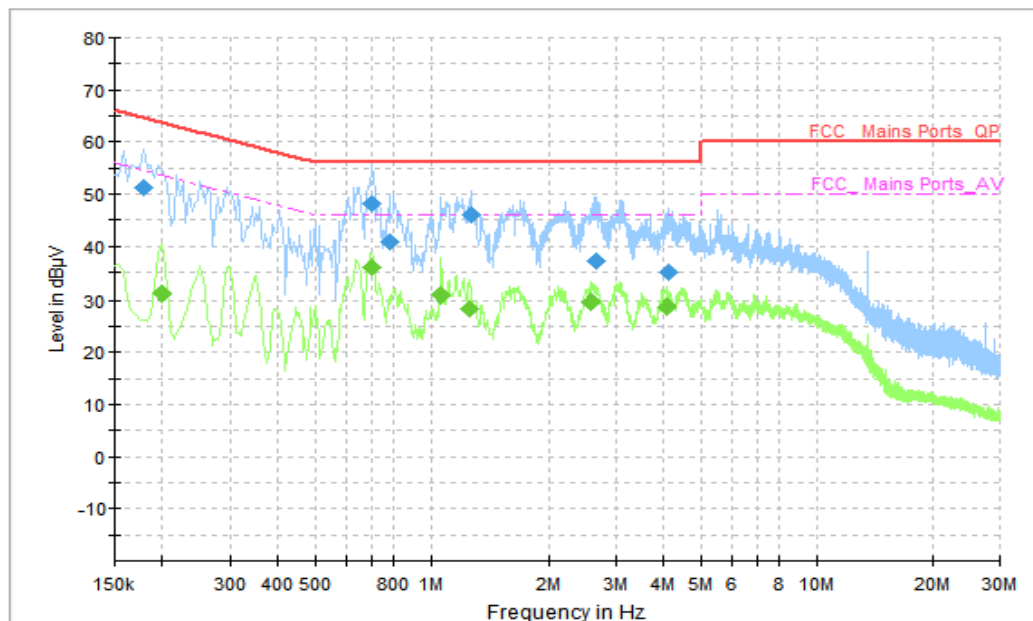


Figure A.2.8. Conducted Emission (Band 2.4GHz Wi-Fi+Bluetooth+NFC+Scanning+Rear camera+Video Player+Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.178000	51.12	64.58	13.46	L1	10	41.12
0.702000	48.18	56.00	7.82	N	10	38.18
0.778000	40.78	56.00	15.22	N	10	30.78
1.270000	45.93	56.00	10.07	N	10	35.93
2.678000	37.04	56.00	18.96	L1	10	27.04
4.114000	35.11	56.00	20.89	L1	10	25.11

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.198000	31.07	53.69	22.63	N	9	22.07
0.702000	35.97	46.00	10.03	N	10	25.97
1.062000	30.71	46.00	15.29	N	10	20.71
1.254000	28.18	46.00	17.82	L1	10	18.18
2.582000	29.53	46.00	16.47	L1	10	19.53
4.050000	28.73	46.00	17.27	L1	10	18.73

AC Input Port/ Voltage: 120V/60Hz

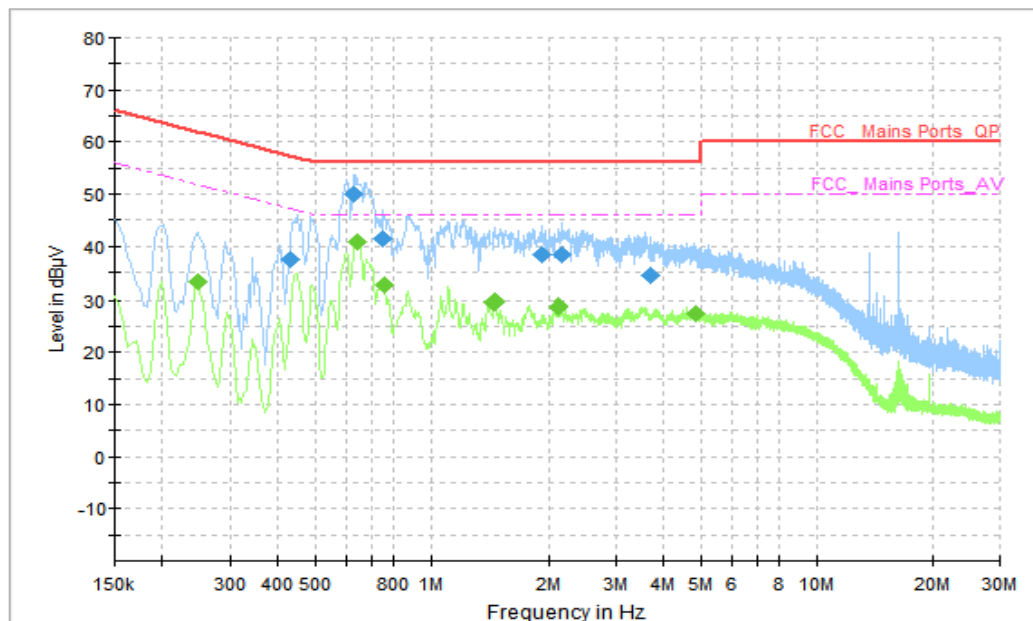


Figure A.2.9. Conducted Emission (Band 5GHz Wi-Fi+Bluetooth+Bluetooth headset+Scanning+Rear camera+Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.430000	37.64	57.25	19.61	N	10	27.64
0.626000	49.97	56.00	6.03	N	10	39.97
0.750000	41.51	56.00	14.49	L1	10	31.51
1.926000	38.37	56.00	17.63	N	10	28.37
2.166000	38.46	56.00	17.54	L1	10	28.46
3.678000	34.33	56.00	21.67	L1	10	24.33

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.246000	33.09	51.89	18.80	N	10	23.09
0.642000	40.77	46.00	5.23	L1	10	30.77
0.754000	32.50	46.00	13.50	N	10	22.50
1.450000	29.65	46.00	16.35	L1	10	19.65
2.122000	28.60	46.00	17.40	L1	10	18.6
4.818000	27.27	46.00	18.73	N	10	17.27

AC Input Port/ Voltage: 240V/60Hz

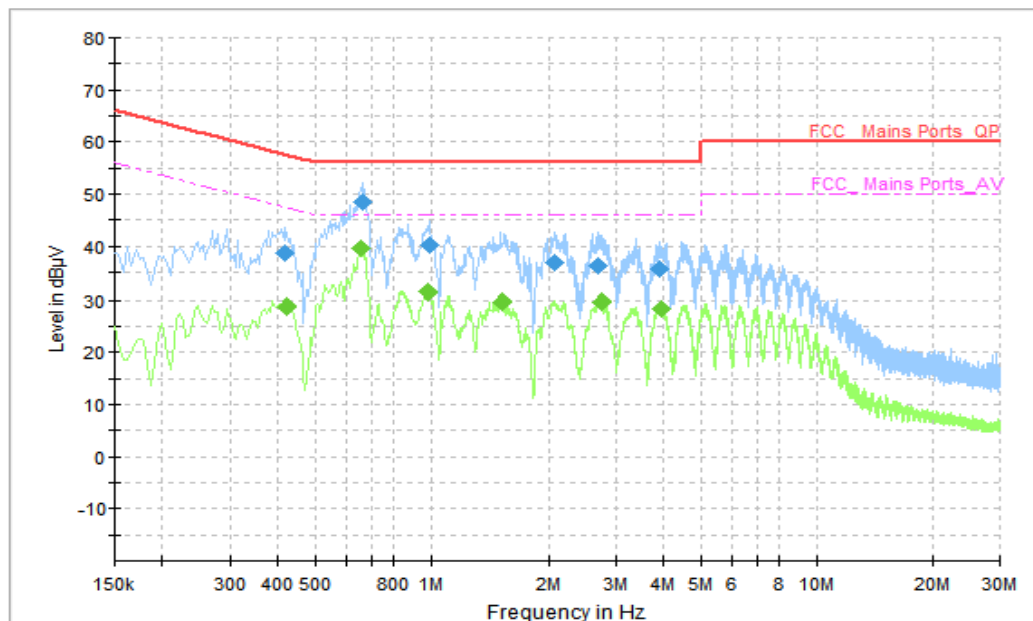


Figure A.2.10. Conducted Emission(Band 5GHz Wi-Fi+Bluetooth+Bluetooth headset+Scanning+Rear camera+Charging)

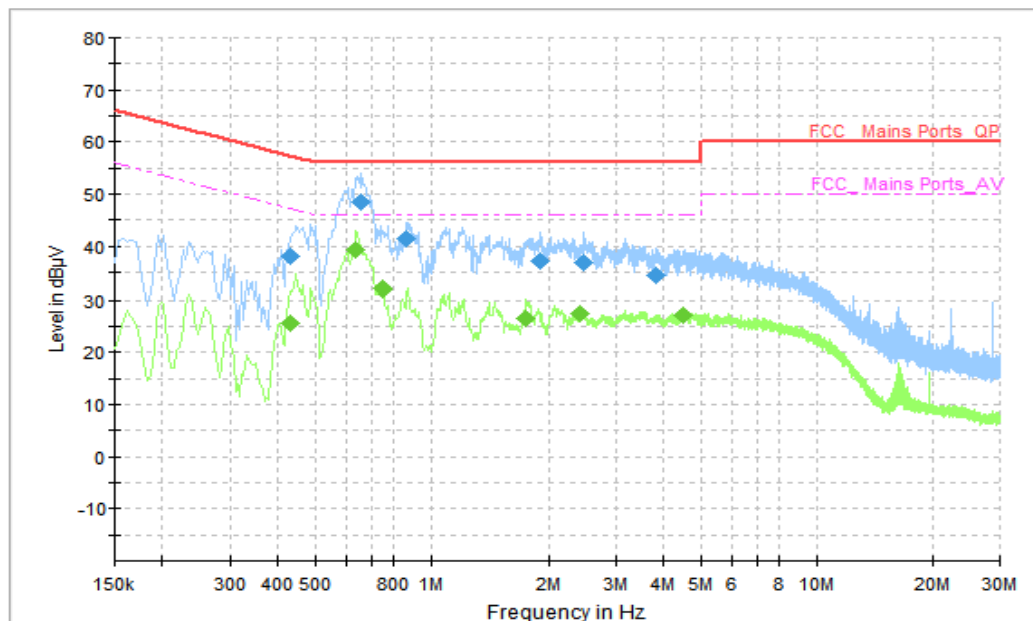
Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.414000	38.72	57.57	18.85	N	10	28.72
0.662000	48.48	56.00	7.52	L1	10	38.48
0.990000	40.24	56.00	15.76	L1	10	30.24
2.078000	36.92	56.00	19.08	N	10	26.92
2.706000	36.33	56.00	19.67	L1	10	26.33
3.914000	35.55	56.00	20.45	L1	10	25.55

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.422000	28.63	47.41	18.78	L1	10	18.63
0.654000	39.64	46.00	6.36	L1	10	29.64
0.986000	31.23	46.00	14.77	N	10	21.23
1.518000	29.42	46.00	16.58	N	10	19.42
2.742000	29.39	46.00	16.61	N	10	19.39
3.946000	28.35	46.00	17.65	L1	10	18.35

AC Input Port/ Voltage: 120V/60Hz



**Figure A.2.11. Conducted Emission(Band 5GHz
Wi-Fi+Bluetooth+NFC+Scanning+Charging)**

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.430000	38.06	57.25	19.20	N	10	28.06
0.658000	48.55	56.00	7.45	N	10	38.55
0.866000	41.44	56.00	14.56	L1	10	31.44
1.902000	37.06	56.00	18.94	N	10	27.06
2.482000	36.79	56.00	19.21	L1	10	26.79
3.794000	34.45	56.00	21.55	L1	10	24.45

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.430000	25.62	47.25	21.63	N	10	15.62
0.638000	39.23	46.00	6.77	N	10	29.23
0.746000	32.05	46.00	13.95	L1	10	22.05
1.750000	26.58	46.00	19.42	N	10	16.58
2.426000	27.26	46.00	18.74	N	10	17.26
4.470000	27.23	46.00	18.77	L1	10	17.23

AC Input Port/ Voltage: 240V/60Hz

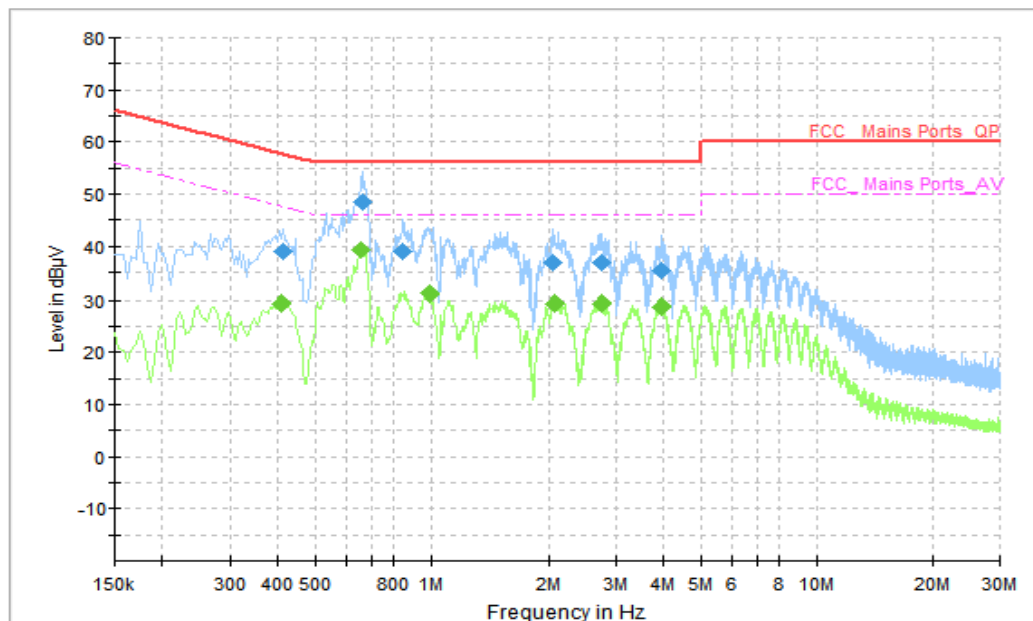


Figure A.2.12. Conducted Emission (Band 5GHz
Wi-Fi+Bluetooth+NFC+Scanning+Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.410000	38.88	57.65	18.76	N	10	28.88
0.662000	48.44	56.00	7.56	L1	10	38.44
0.846000	39.10	56.00	16.90	L1	10	29.10
2.058000	36.79	56.00	19.21	L1	10	26.79
2.766000	36.74	56.00	19.26	L1	10	26.74
3.926000	35.39	56.00	20.61	L1	10	25.39

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.406000	29.13	47.73	18.60	N	10	19.13
0.654000	39.44	46.00	6.56	L1	10	29.44
0.990000	31.09	46.00	14.91	N	10	21.09
2.086000	29.14	46.00	16.86	N	10	19.14
2.738000	29.22	46.00	16.78	L1	10	19.22
3.942000	28.57	46.00	17.43	N	10	18.57

AC Input Port/ Voltage: 120V/60Hz

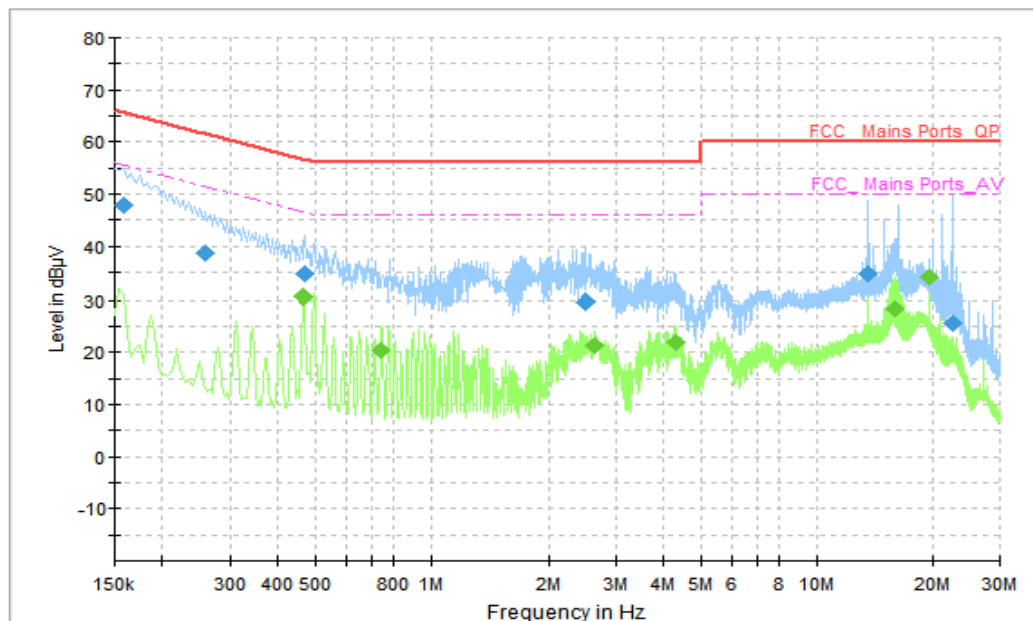


Figure A.2.13. Conducted Emission(Band 5GHz

Wi-Fi+Bluetooth+NFC+Scanning+Charging via POGO PIN+Ethernet Connection)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.158000	47.74	65.57	17.83	L1	10	37.74
0.258000	38.84	61.50	22.66	N	10	28.84
0.470000	34.85	56.51	21.66	N	10	24.85
2.494000	29.45	56.00	26.55	L1	10	19.45
13.594000	34.79	60.00	25.21	N	10	24.79
22.502000	25.48	60.00	34.52	L1	10	15.48

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.466000	30.48	46.59	16.11	N	10	20.48
0.742000	20.33	46.00	25.67	L1	10	10.33
2.622000	21.14	46.00	24.86	L1	10	11.14
4.286000	21.97	46.00	24.03	L1	10	11.97
15.902000	28.20	50.00	21.80	L1	10	18.2
19.662000	34.13	50.00	15.87	L1	10	24.13

AC Input Port/ Voltage: 240V/60Hz

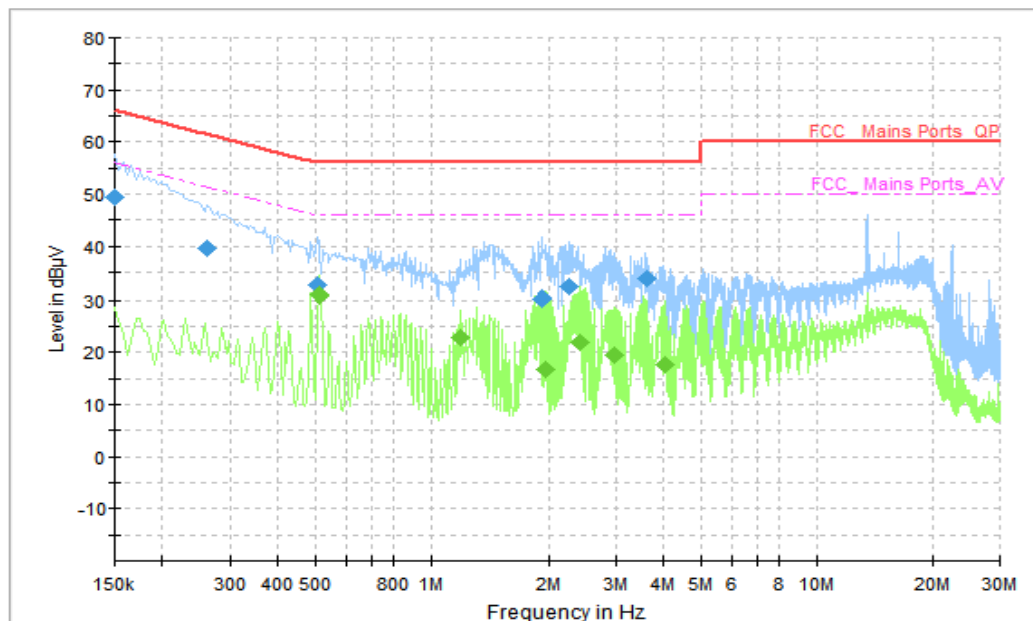


Figure A.2.14. Conducted Emission (Band 5GHz

Wi-Fi+Bluetooth+NFC+Scanning+Charging via POGO PIN+Ethernet Connection)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.150000	49.52	66.00	16.48	L1	10	39.52
0.262000	39.59	61.37	21.78	N	10	29.59
0.506000	32.75	56.00	23.25	N	10	22.75
1.914000	30.12	56.00	25.88	N	10	20.12
2.254000	32.25	56.00	23.75	L1	10	22.25
3.602000	33.82	56.00	22.18	N	10	23.82

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.514000	30.84	46.00	15.16	L1	10	20.84
1.190000	22.70	46.00	23.30	N	10	12.7
1.970000	16.85	46.00	29.15	N	10	6.85
2.422000	21.98	46.00	24.02	N	10	11.98
2.970000	19.57	46.00	26.43	N	10	9.57
4.026000	17.70	46.00	28.30	L1	10	7.70

AC Input Port/ Voltage: 120V/60Hz

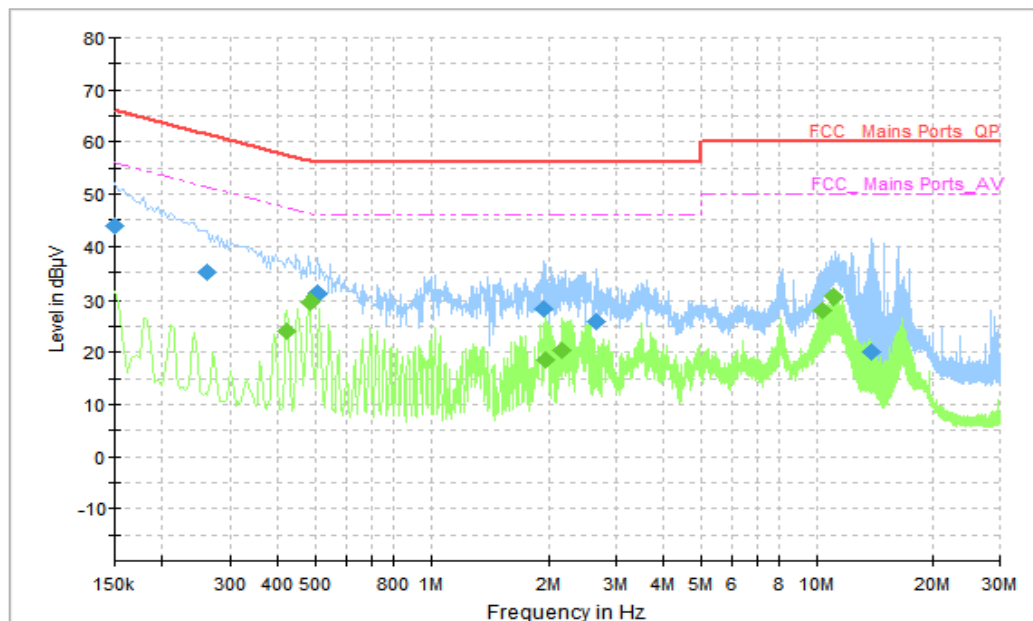


Figure A.2.15. Conducted Emission(Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging via POGO PIN+Data transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.150000	43.97	66.00	22.03	L1	10	33.97
0.262000	35.02	61.37	26.34	N	10	25.02
0.506000	31.15	56.00	24.85	N	10	21.15
1.946000	28.23	56.00	27.77	L1	10	18.23
2.674000	26.02	56.00	29.98	N	10	16.02
13.878000	20.19	60.00	39.81	L1	10	10.19

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.422000	23.94	47.41	23.47	L1	10	13.94
0.482000	29.69	46.31	16.61	L1	10	19.69
1.970000	18.68	46.00	27.32	L1	10	8.68
2.170000	20.22	46.00	25.78	N	10	10.22
10.354000	28.09	50.00	21.91	L1	10	18.09
11.074000	30.33	50.00	19.67	L1	10	20.33

AC Input Port/ Voltage: 240V/60Hz

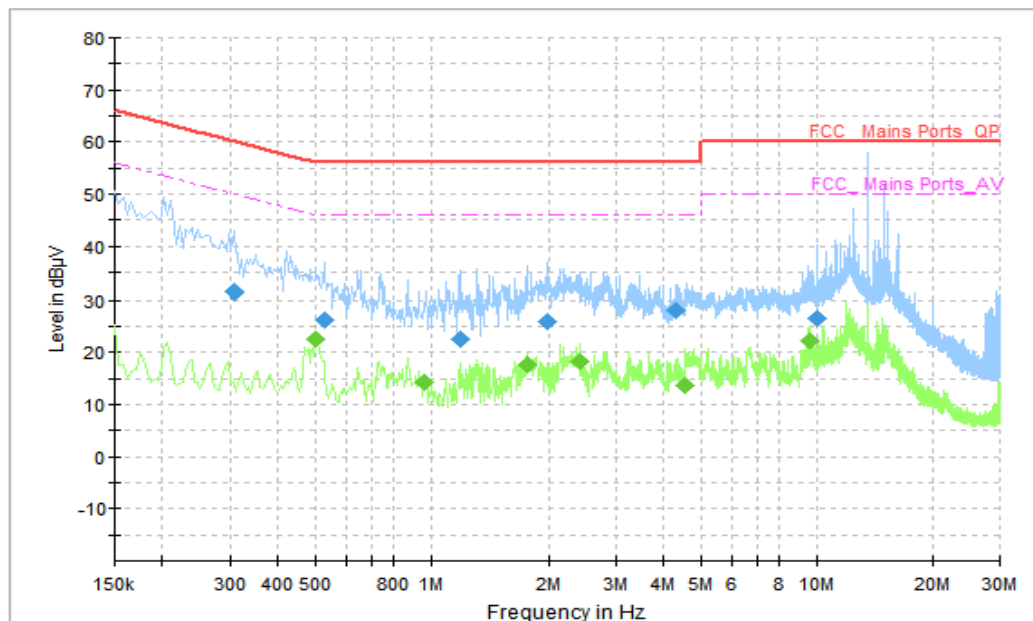


Figure A.2.16. Conducted Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging via POGO PIN+Data transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.306000	31.37	60.08	28.71	L1	10	21.37
0.526000	26.19	56.00	29.81	L1	10	16.19
1.194000	22.50	56.00	33.50	L1	10	12.50
1.978000	25.79	56.00	30.21	N	10	15.79
4.318000	28.13	56.00	27.87	L1	10	18.13
10.006000	26.58	60.00	33.42	L1	10	16.58

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.498000	22.62	46.03	23.41	N	10	12.62
0.962000	14.20	46.00	31.80	L1	10	4.2
1.762000	17.62	46.00	28.38	N	10	7.62
2.414000	18.11	46.00	27.89	L1	10	8.11
4.522000	13.55	46.00	32.45	N	10	3.55
9.606000	22.23	50.00	27.77	N	10	12.23

AC Input Port/ Voltage: 120V/60Hz

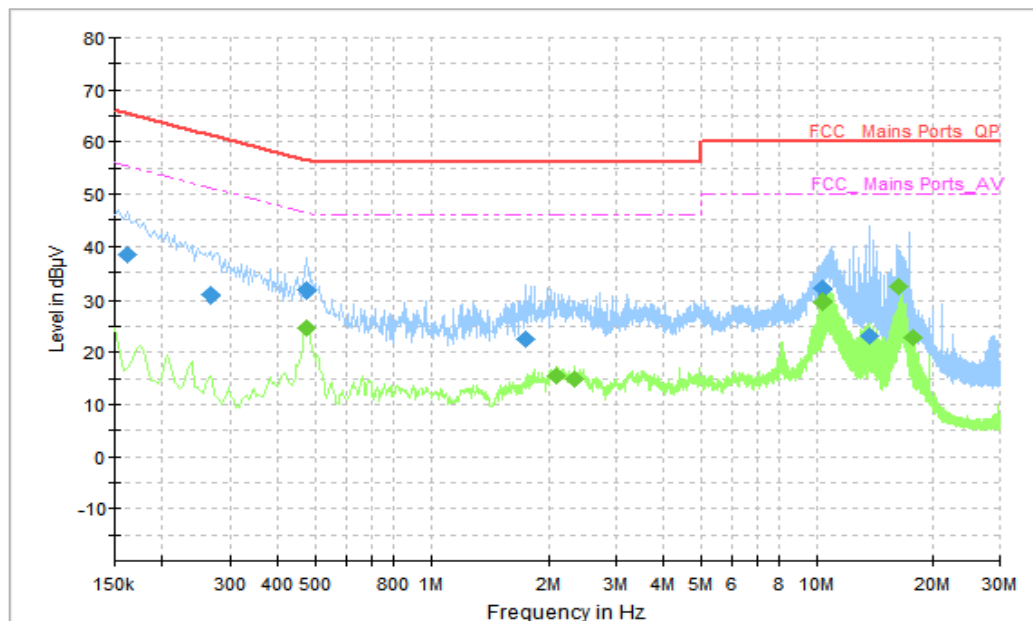


Figure A.2.17. Conducted Emission(Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging via POGO PIN+Data transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.162000	38.39	65.36	26.97	L1	10	28.39
0.266000	30.86	61.24	30.38	N	10	20.86
0.474000	31.67	56.44	24.77	N	10	21.67
1.754000	22.57	56.00	33.43	N	10	12.57
10.358000	32.10	60.00	27.90	L1	10	22.1
13.726000	23.17	60.00	36.83	L1	10	13.17

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.474000	24.60	46.44	21.85	L1	10	14.60
2.094000	15.56	46.00	30.44	N	10	5.56
2.342000	14.95	46.00	31.05	N	10	4.95
10.354000	29.44	50.00	20.56	L1	10	19.44
16.386000	32.32	50.00	17.68	L1	10	22.32
17.738000	22.89	50.00	27.11	L1	10	12.89

AC Input Port/ Voltage: 240V/60Hz

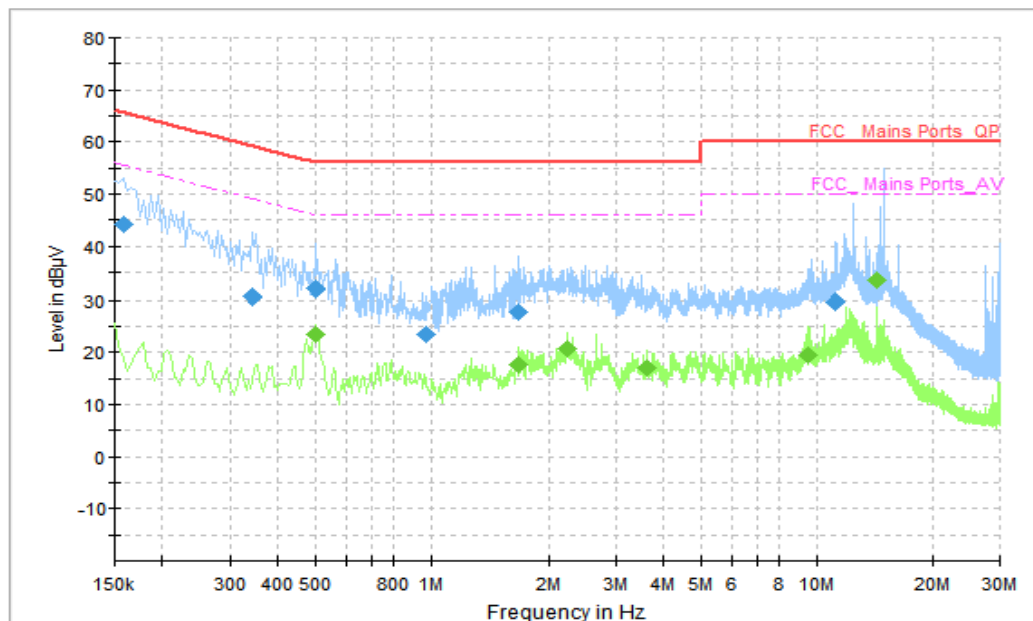


Figure A.2.18. Conducted Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging via POGO PIN+Data transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.158000	44.27	65.57	21.30	L1	10	34.27
0.342000	30.31	59.16	28.85	L1	10	20.31
0.502000	32.10	56.00	23.90	L1	10	22.10
0.970000	23.45	56.00	32.55	N	10	13.45
1.678000	27.70	56.00	28.30	L1	10	17.7
11.230000	29.42	60.00	30.58	N	10	19.42

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.498000	23.45	46.03	22.58	L1	10	13.45
1.674000	17.48	46.00	28.52	L1	10	7.48
2.234000	20.59	46.00	25.41	L1	10	10.59
3.614000	17.01	46.00	28.99	N	10	7.01
9.514000	19.58	50.00	30.42	N	10	9.58
14.314000	33.47	50.00	16.53	L1	10	23.47

AC Input Port/ Voltage: 120V/60Hz

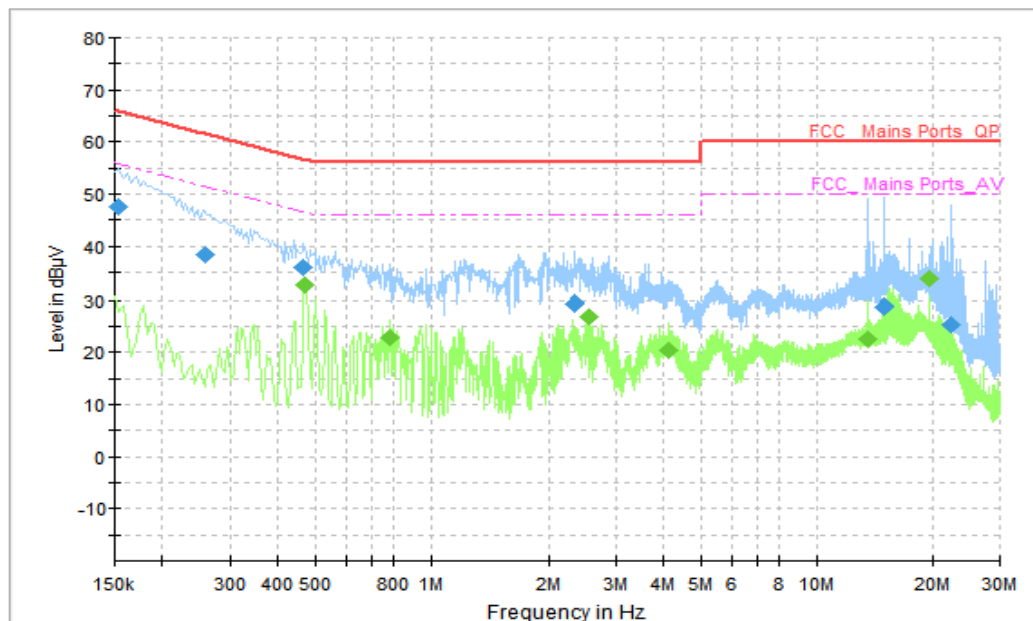


Figure A.2.19. Conducted Emission(Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Wireless Power Transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.154000	47.73	65.78	18.05	L1	10	37.73
0.258000	38.54	61.50	22.95	N	10	28.54
0.466000	35.83	56.59	20.75	N	10	25.83
2.346000	29.31	56.00	26.69	N	10	19.31
15.002000	28.54	60.00	31.46	N	10	18.54
22.490000	25.32	60.00	34.68	L1	10	15.32

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.470000	34.47	46.51	14.05	L1	10	24.47
0.782000	22.78	46.00	23.22	N	10	12.78
2.562000	26.70	46.00	19.30	L1	10	16.70
4.134000	20.32	46.00	25.68	N	10	10.32
13.546000	22.50	50.00	27.50	N	10	12.5
19.658000	33.71	50.00	16.29	L1	10	23.71

AC Input Port/ Voltage: 240V/60Hz

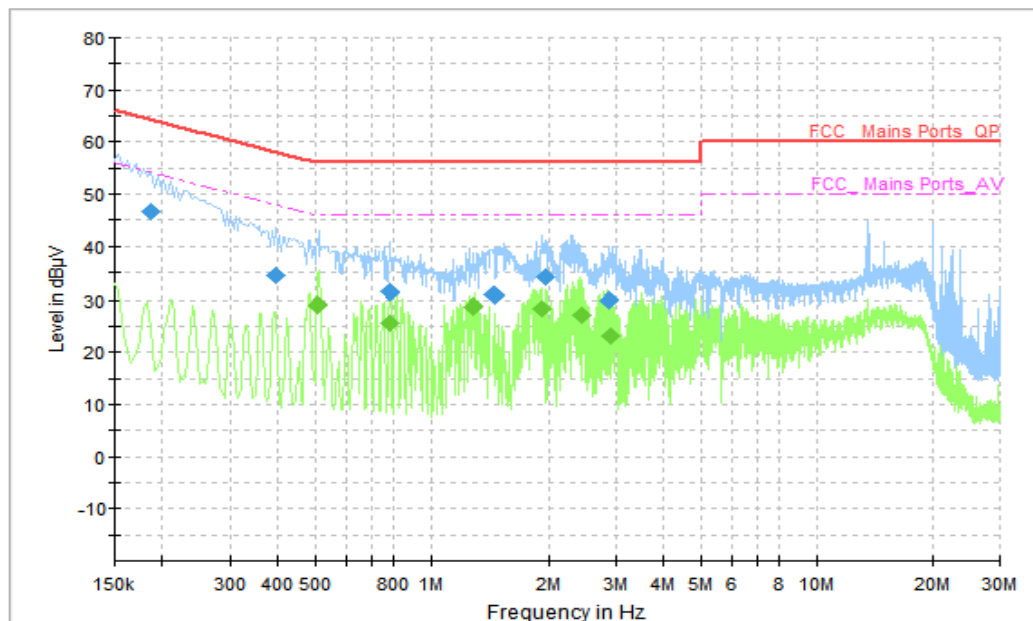


Figure A.2.20. Conducted Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+ Wireless Power Transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.186000	46.52	64.21	17.69	L1	10	36.52
0.394000	34.31	57.98	23.67	L1	10	24.31
0.778000	31.24	56.00	24.76	N	10	21.24
1.458000	30.69	56.00	25.31	L1	10	20.69
1.962000	34.13	56.00	21.87	L1	10	24.13
2.874000	29.93	56.00	26.07	N	10	19.93

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.506000	29.00	46.00	17.00	N	10	19.00
0.778000	25.42	46.00	20.58	N	10	15.42
1.286000	28.75	46.00	17.25	N	10	18.75
1.930000	28.30	46.00	17.70	L1	10	18.30
2.450000	27.16	46.00	18.84	L1	10	17.16
2.898000	23.16	46.00	22.84	L1	10	13.16

AC Input Port/ Voltage: 120V/60Hz

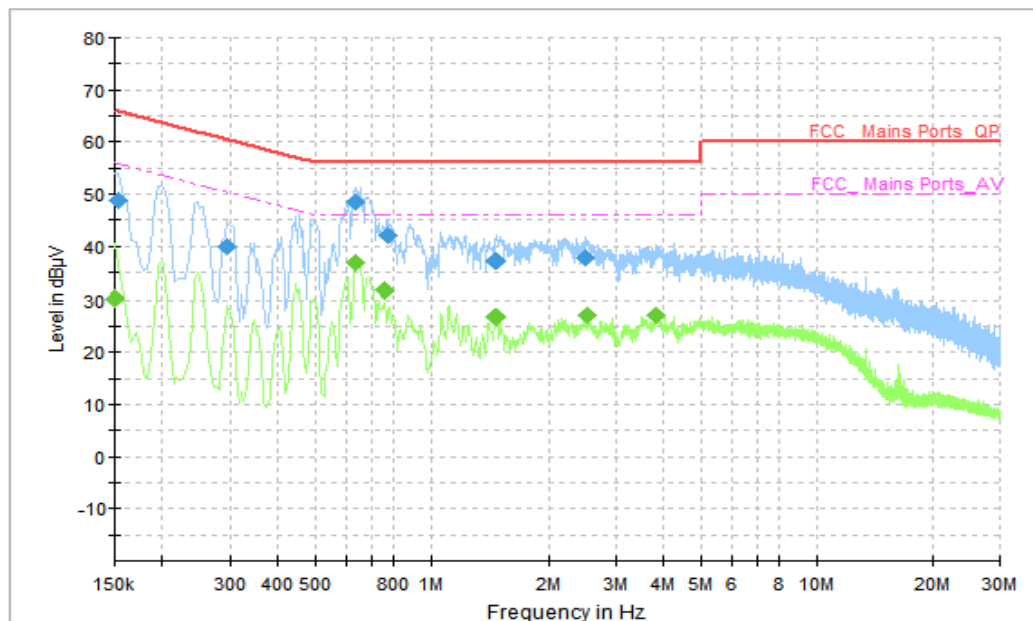


Figure A.2.21. Conducted Emission(Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.154000	48.78	65.78	17.00	L1	10	38.78
0.294000	39.88	60.41	20.53	N	10	29.88
0.638000	48.61	56.00	7.39	L1	10	38.61
0.774000	42.00	56.00	14.00	N	10	32.00
1.466000	37.27	56.00	18.73	L1	10	27.27
2.510000	37.69	56.00	18.31	N	10	27.69

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.150000	30.30	56.00	25.70	L1	10	20.30
0.638000	36.79	46.00	9.21	L1	10	26.79
0.754000	31.60	46.00	14.40	L1	10	21.60
1.470000	26.72	46.00	19.28	N	10	16.72
2.514000	27.16	46.00	18.84	N	10	17.16
3.818000	26.96	46.00	19.04	N	10	16.96

AC Input Port/ Voltage: 240V/60Hz

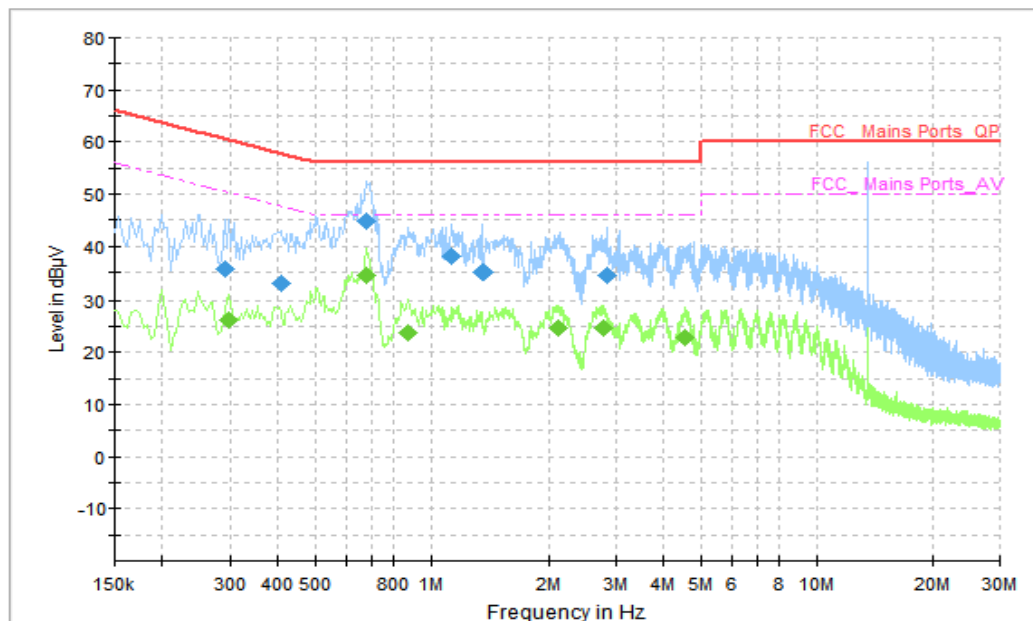


Figure A.2.22. Conducted Emission (Band 5GHz Wi-Fi+Bluetooth+NFC+Scanning+Glove Mode+Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.290000	35.70	60.52	24.83	N	10	25.70
0.406000	32.91	57.73	24.82	N	10	22.91
0.682000	44.75	56.00	11.25	N	10	34.75
1.130000	38.20	56.00	17.80	L1	10	28.20
1.358000	35.00	56.00	21.00	L1	10	25
2.834000	34.46	56.00	21.54	L1	10	24.46

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.298000	26.06	50.30	24.24	N	10	16.06
0.682000	34.58	46.00	11.42	N	10	24.58
0.870000	23.64	46.00	22.36	N	10	13.64
2.118000	24.70	46.00	21.30	N	10	14.70
2.774000	24.71	46.00	21.29	N	10	14.71
4.558000	22.89	46.00	23.11	N	10	12.89

AC Input Port/ Voltage: 120V/60Hz

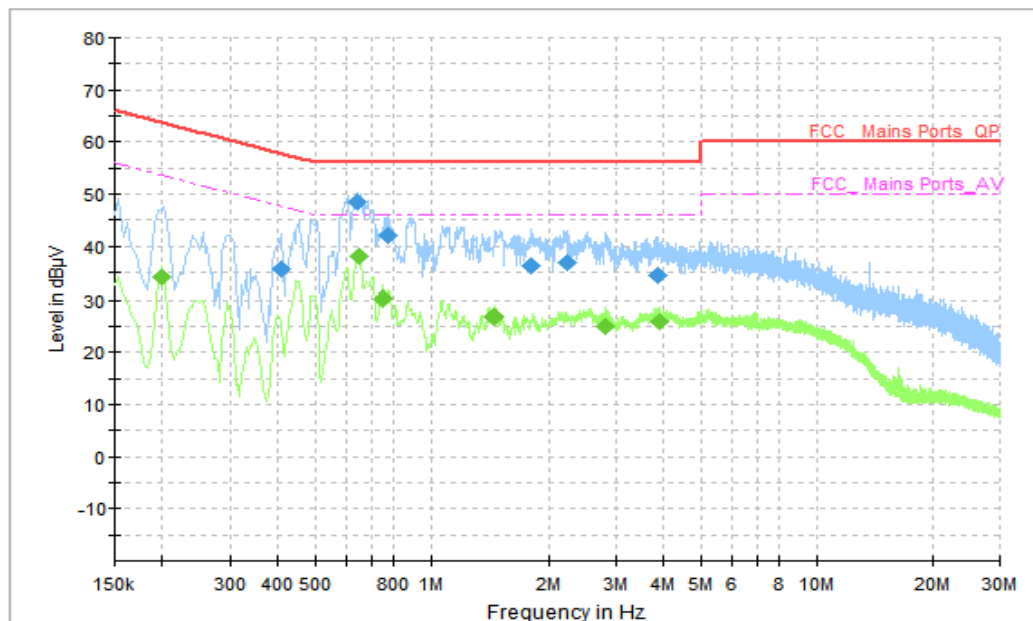


Figure A.2.23. Conducted Emission(Band 2.4GHz Wi-Fi Idle+Bluetooth Idle+NFC Idle+Front Camera+Video Player+Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.406000	35.69	57.73	22.04	N	10	25.69
0.646000	48.52	56.00	7.48	L1	10	38.52
0.774000	42.04	56.00	13.96	N	10	32.04
1.794000	36.40	56.00	19.60	N	10	26.40
2.230000	36.76	56.00	19.24	L1	10	26.76
3.838000	34.57	56.00	21.43	N	10	24.57

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.198000	34.05	53.69	19.64	N	9	25.05
0.650000	37.97	46.00	8.03	N	10	27.97
0.750000	30.13	46.00	15.87	N	10	20.13
1.458000	26.89	46.00	19.11	N	10	16.89
2.798000	25.06	46.00	20.94	N	10	15.06
3.886000	25.77	46.00	20.23	N	10	15.77

AC Input Port/ Voltage: 240V/60Hz

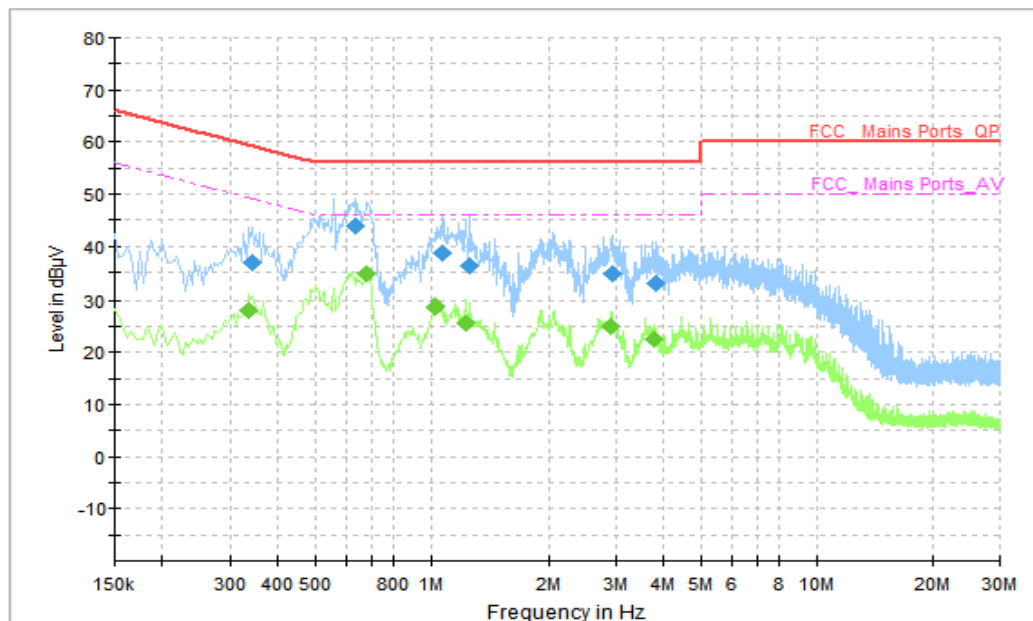


Figure A.2.24. Conducted Emission (Band 2.4GHz Wi-Fi Idle+Bluetooth Idle+NFC Idle+Front Camera+Video Player+Charging)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.342000	36.91	59.16	22.25	N	10	26.91
0.634000	43.88	56.00	12.12	L1	10	33.88
1.074000	38.71	56.00	17.29	L1	10	28.71
1.266000	36.14	56.00	19.86	L1	10	26.14
2.926000	34.89	56.00	21.11	N	10	24.89
3.802000	32.87	56.00	23.13	N	10	22.87

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.334000	27.95	49.35	21.40	N	10	17.95
0.682000	34.88	46.00	11.12	L1	10	24.88
1.030000	28.67	46.00	17.33	N	10	18.67
1.230000	25.64	46.00	20.36	N	10	15.64
2.922000	25.02	46.00	20.98	L1	10	15.02
3.778000	22.63	46.00	23.37	L1	10	12.63



No. 24T04N002517-007-EMC

****END OF REPORT****