TEST REPORT

No.B20N00421-EMC

for

i.safe MOBILE GmbH

LTE SMARTPHONE

Model Name：M53A01

With

Hardware Version: V1.00

Software Version: IS530_EEA_1.0.0.0.0_1_20200331

FCC ID: 2AACZ-M53A01

IC number: 11122A-M53A01

Issued Date: 2020-06-10

Designation Number: CN1210

ISED Assigned Code: 23289

Note:

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

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
B20N00421-EMC	Rev.0	1st edition	2020-06-10

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

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1. Summary of Test Report

1.1. Test Items

Description	LTE SMARTPHONE
Model Name	M53A01
Applicant's name	i.safe MOBILE GmbH
Manufacturer's Name	i.safe MOBILE GmbH

1.2. Test Standards

FCC Part 15, Subpart B 10-1-2018 Edition; ANSI C63.4 2014; ICES-003 Issue 6

1.3. Test Result

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

1.4. Testing Location

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

1.5. Project data

Testing Start Date: 2020-03-05 Testing End Date: 2020-06-03

1.6. Signature

Liang Yong
(Prepared this test report)

Zhang Yunzhuan
(Reviewed this test report)

Cao Junfei
(Approved this test report)

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2. ClientInformation

2.1. Applicant Information

Company Name:	i.safe MOBILE GmbH
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E-mail	dirk.amann@isafe-mobile.com
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2.2. Manufacturer Information

Company Name:	i.safe MOBILE GmbH
Address:	i_Park Tauberfranken 10 97922 Lauda-Koenigshofen Germany
Contact:	Dirk Amann
E-mail	dirk.amann@isafe-mobile.com
Tel:	+491703719004

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3. Equipment UnderTest (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	LTE SMARTPHONE
Model Name	M53A01
FCC ID	2AACZ-M53A01
IC number	11122A-M53A01
Condition of EUT as received	No obvious damage in appearance

This device contains the receivers which tune and operate between 30MHz-960MHz in the following bands:
GSM850MHz, WCDMA Band5, LTE Band 5, LTE Band 12, LTE Band 13, LTE Band 14, LTE Band 17, LTE Band 26.

Note: Photographs of EUT are shown in ANNEX A of this test report. 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
UT08aa	358121101506782	V1.00	IS530_EEA_1.0.0.0.0_1_20200331	2020-03-09

*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	Cable
AE4	Air Duct Earphone

AE1

Model	MBP53A01
Manufacturer	FPR Connectivity Technology Inc.
Capacity	3.8v
Nominal Voltage	3600 mAh

AE2

Model	ICP12-050-2000B
Manufacturer	SHENZHEN SHI YINGYUAN POWER SUPPLY TECHNOLOGY CO., LTD.

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AE3-1

Model	PROTECTOR 2.0
Manufacturer	Winpower Technology Co., LTD

AE3-2

Model	PROTECTOR 3.0
Manufacturer	Winpower Technology Co., LTD

AE4

Model	AC-4035-M6
Manufacturer	SHENZHEN CXD SCIENCE & TECHNOLOGY CO., LTD.

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

AE: ancillary equipment

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	UT08aa+AE1+AE2+AE3-1+AE4	
Set.2	UT08aa+AE1+AE2+AE3-2+AE4	
Set.3	UT08aa+AE1+AE3-1+AE4+PC	

3.5. General Description

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

It supports GSM 850/900/1800/1900MHz, WCDMA Bands 1/2/4/5/8, and LTE Bands 1/2/3/4/5/7/8/12/13/14/17/20/25/26/28/29/30/38/39/40/41/66

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

It consists of normal options: Battery, Charger, Cable and air duct earphone.

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

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

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4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15, Subpart B	Radio frequency devices	10-1-2019 Edition
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014
ICES-003	Information Technology Equipment(ITE)-Limits and methods of measurement	Issue 6

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5. LABORATORY ENVIRONMENT

Semi-anechoic chamber did not exceed following limits along the EMC testing:
9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 ℃, Max. = 35℃
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
Normalised site attenuation (NSA)	<±4 dB, 3 m distance, from 30 to 1000 MHz

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

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

Fully-anechoic chamber did not exceed following limits along the EMC testing:
9.10m×6.10m×5.60m (L×W×H)

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

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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	B.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.

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7. Measurement uncertainty

Test item	Frequency ranges	Measurement uncertaint
Radiated Emission	30MHz-1GHz	4.90dB(k=2)
	1GHz-18GHz	4.60dB(k=2)
	18GHz-40GHz	4.10dB(k=2)
Conducted Emission	150kHz-30MHz	3.00dB(k=2)

8. Test Facilities Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CALDUE DATE	CAL PERIOD
1.	Test Receiver	ESR7	101676	R&S	2020.11.27	1 year
2.	Test Receiver	ESCI	100701	R&S	2020.08.10	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2021.01.14	1 year
4.	BiLog Antenna	3142E	00224831	ETS-Lindgren	2021.05.17	3 years
5.	LISN	ENV216	102067	R&S	2020.07.17	1 year
6.	Horn Antenna	3117	00066577	ETS-Lindgren	2022.04.02	3 years
7.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2021.07.19	2 years
8.	Software	EMC32	V10.01.00	R&S	/	/
9.	PC	ThinkPad T480	PF-13LW0C	Lenovo	/	/
10.	Printer	P1008	VNF6C12491	HP	/	/
11.	Mouse	MOEUUOA	44NY517	Lenovo	/	/

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ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission (§15.109(a))

Reference

FCC: CFR Part 15.109(a)

IC: ICES-003 section 6.2

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (Data transfer mode of EUT and charging mode of EUT) at a distance of 3 meters is tested. Tested in accordance with the procedures of ANSI C63.4 -2014, section 8.3.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

A.1.2 EUT Operating Mode:

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

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

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

All equipment is placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions.

A.1.3 Measurement Limit

Limit from CFR Part 15.109(a)

Frequency range (MHz)	Field strength limit (μV/m)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

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

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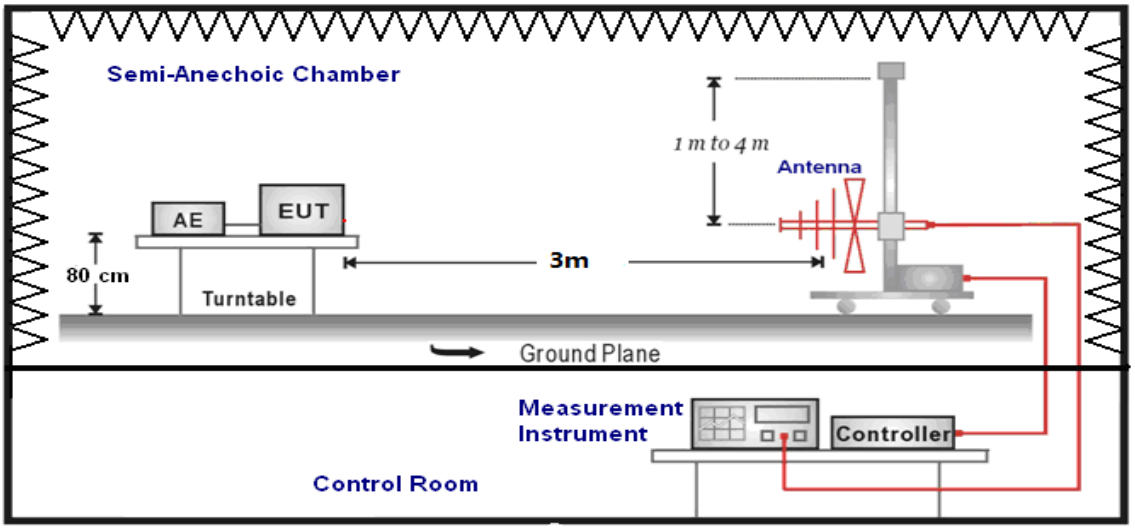
A.1.4 Test Condition

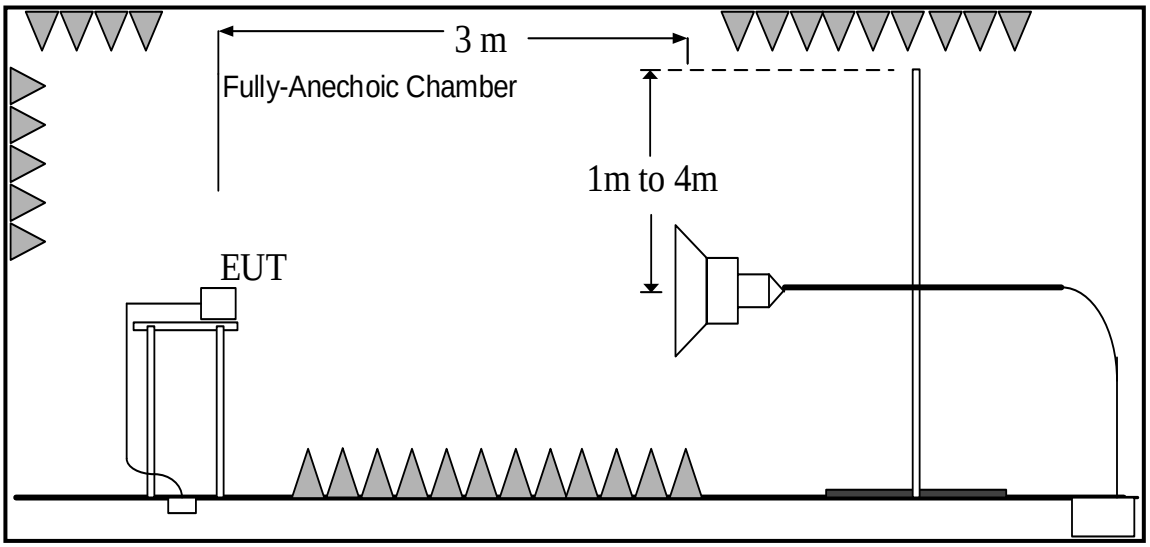
Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

A.1.5 Test set-up:

30MHz-1GHz



1GHz-26GHz



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A.1.6 Measurement Results

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

The measurement results are obtained as described below:

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

Where

G_A: Antenna factor of receive antenna

G_{PL}:PathLoss

P_{Mea}: Measurement result on receiver.

Result:Quasi-Peak(dBμV/m) /Average(dBμV/m)/Peak(dBμV/m)

Note: the result contains vertical part and Horizontal part

Charging and GSM850MHz idle

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

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
			Set.1	
1000 to 3000	54	74	See Figure A.2	P
3000 to 18000			See Figure A.3	
18000 to 26500			See Figure A.4	
26500 to 30000			See Figure A.5	

Charging and WCDMA Band 5 idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
		Set.1	
30-88	40	See Figure A.6	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
			Set.1	
1000 to 3000	54	74	See Figure A.7	P
3000 to 18000			See Figure A.8	
18000 to 26500			See Figure A.9	
26500 to 30000			See Figure A.10	

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Charging and LTE Band 5 idle

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

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
1000 to 3000	54	74	See Figure A.12	P
3000 to 18000			See Figure A.13	
18000 to 26500			See Figure A.14	
26500 to 30000			See Figure A.15	

Charging and LTE Band 12 idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
30-88	40	See Figure A.16	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
1000 to 3000	54	74	See Figure A.17	P
3000 to 18000			See Figure A.18	
18000 to 26500			See Figure A.19	
26500 to 30000			See Figure A.20	

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Charging and LTE Band 13 idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
		Set.1	
30-88	40	See Figure A.21	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
			Set.1	
1000 to 3000	54	74	See Figure A.22	P
3000 to 18000			See Figure A.23	
18000 to 26500			See Figure A.24	
26500 to 30000			See Figure A.25	

Charging and LTE Band 14 idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
		Set.1	
30-88	40	See Figure A.26	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
			Set.1	
1000 to 3000	54	74	See Figure A.27	P
3000 to 18000			See Figure A.28	
18000 to 26500			See Figure A.29	
26500 to 30000			See Figure A.30	

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Charging and LTE Band 17 idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
30-88	40	See Figure A.31	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
1000 to 3000	54	74	See Figure A.32	P
3000 to 18000			See Figure A.33	
18000 to 26500			See Figure A.34	
26500 to 30000			See Figure A.35	

Charging and LTE Band 26 idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
30-88	40	See Figure A.36	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
1000 to 3000	54	74	See Figure A.37	P
3000 to 18000			See Figure A.38	
18000 to 26500			See Figure A.39	
26500 to 30000			See Figure A.40	

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Camera Mode

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
		Set.1	
30-88	40	See Figure A.41	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
			Set.1	
1000 to 3000	54	74	See Figure A.42	P
3000 to 18000			See Figure A.43	
18000 to 26500			See Figure A.44	
26500 to 30000			See Figure A.45	

Video Player Mode

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

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
			Set.1	
1000 to 3000	54	74	See Figure A.47	P
3000 to 18000			See Figure A.48	
18000 to 26500			See Figure A.49	
26500 to 30000			See Figure A.50	

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Video Player Mode

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.2	Conclusion
30-88	40	See Figure A.51	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.2	Conclusion
1000 to 3000	54	74	See Figure A.52	P
3000 to 18000			See Figure A.53	
18000 to 26500			See Figure A.54	
26500 to 30000			See Figure A.55	

Data Transfer Mode: EUT To PC

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.3	Conclusion
30-88	40	See Figure A.56	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.3	Conclusion
1000 to 3000	54	74	See Figure A.57	P
3000 to 18000			See Figure A.58	
18000 to 26500			See Figure A.59	
26500 to 30000			See Figure A.60	

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Data Transfer Mode: PC To EUT

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
		Set.3	
30-88	40	See Figure A.61	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
			Set.3	
1000 to 3000	54	74	See Figure A.62	P
3000 to 18000			See Figure A.63	
18000 to 26500			See Figure A.64	
26500 to 30000			See Figure A.65	

Data Transfer Mode: PC To TF Card

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
		Set.3	
30-88	40	See Figure A.66	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
			Set.3	
1000 to 3000	54	74	See Figure A.67	P
3000 to 18000			See Figure A.68	
18000 to 26500			See Figure A.69	
26500 to 30000			See Figure A.70	

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Data Transfer Mode: TF Card To PC

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
		Set.3	
30-88	40	See Figure A.71	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
			Set.3	
1000 to 3000	54	74	See Figure A.72	P
3000 to 18000			See Figure A.73	
18000 to 26500			See Figure A.74	
26500 to 30000			See Figure A.75	

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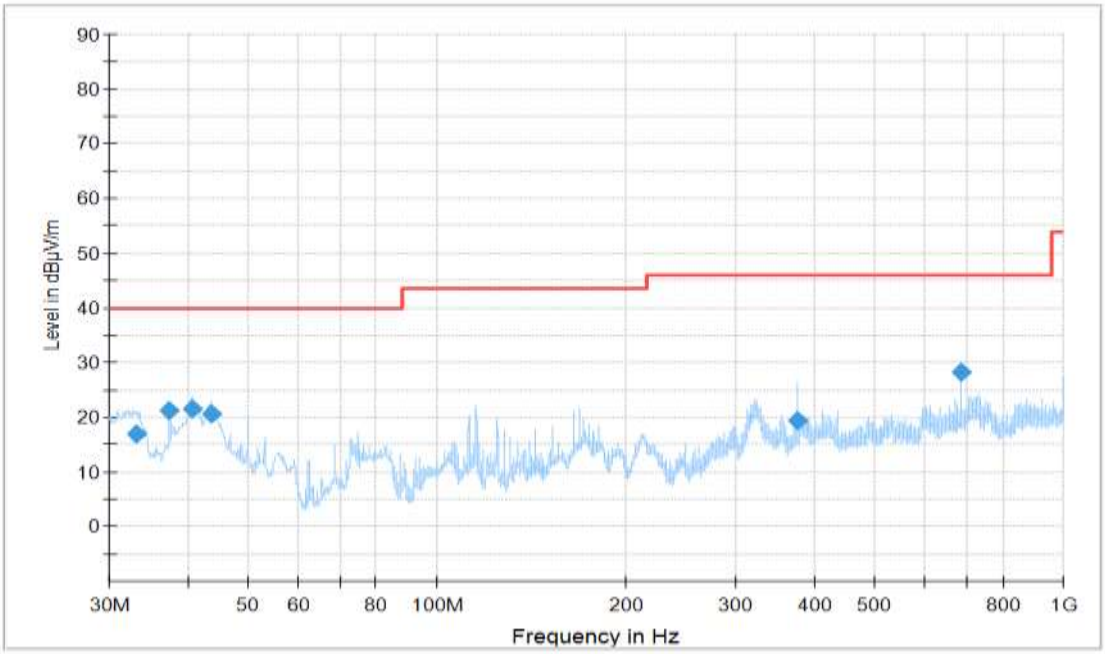

Figure A.1 Radiated Emission (Set.1, Charging and GSM850MHz idle , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
33.023889	16.77	40	23.23	V	-25.9	42.67
37.496667	21.05	40	18.95	V	-28	49.05
40.636111	21.35	40	18.65	V	-29.6	50.95
43.787778	20.59	40	19.41	V	-31.9	52.49
375.016667	19.5	46	26.5	V	-26.7	46.2
687.518333	28.28	46	17.72	V	-19.8	48.08

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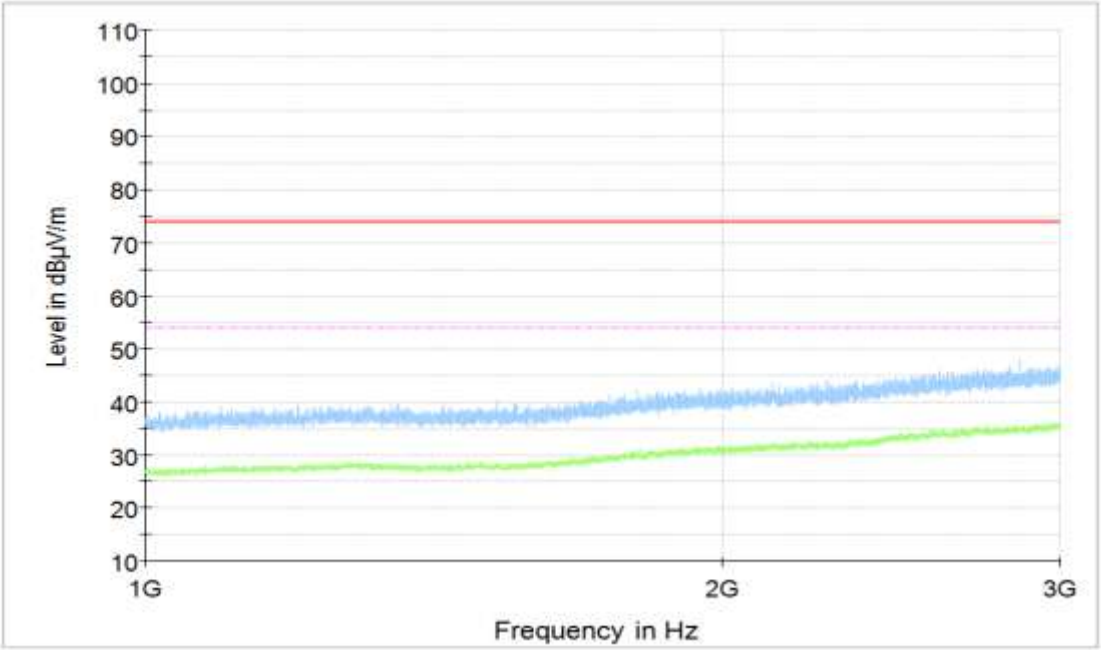

Figure A.2 Radiated Emission (Set.1, Charging and GSM850MHz idle , 1GHz to 3GHz)

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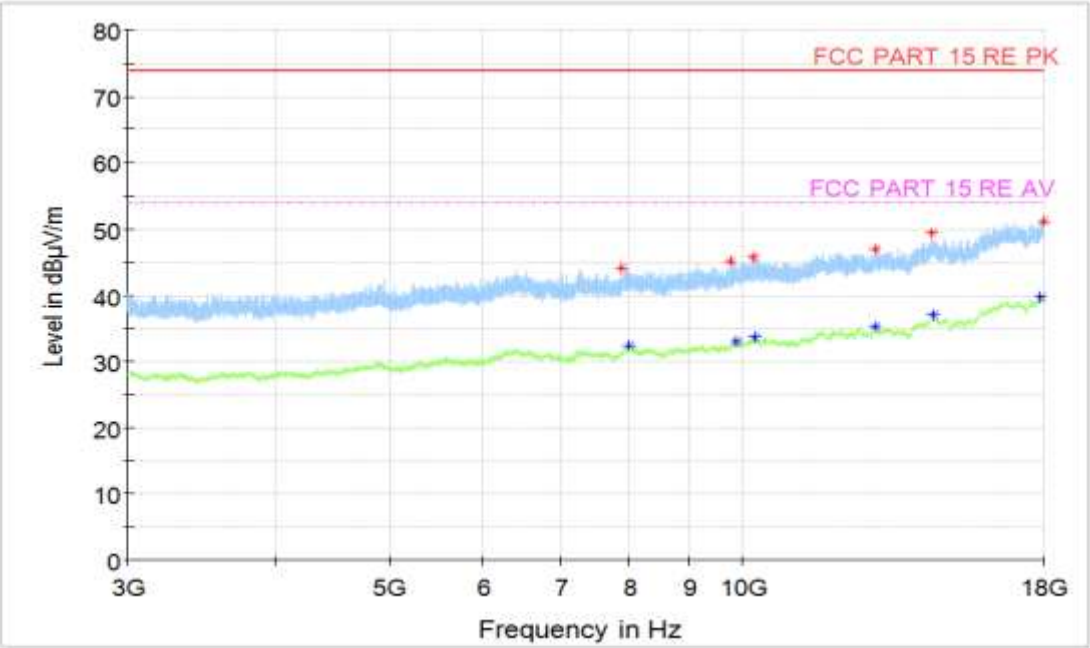

Figure A.3 Radiated Emission (Set.1, Charging and GSM850MHz idle , 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
7875	44.06	74	29.94	V	2.5	41.56
9756	45.12	74	28.88	H	4	41.12
10202.5	45.76	74	28.24	H	5.1	40.66
12947.5	46.88	74	27.12	V	8.6	38.28
14481.5	49.27	74	24.73	V	11.3	37.97
17984.5	51.13	74	22.87	H	15.9	35.23

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
7992	32.34	54	21.66	H	2.8	29.54
9873.5	33.06	54	20.94	V	4.5	28.56
10217	33.73	54	20.27	V	5.1	28.63
12935	35.36	54	18.64	V	8.6	26.76
14506.5	37.07	54	16.93	H	11.5	25.57
17907.5	39.63	54	14.37	H	16.3	23.33

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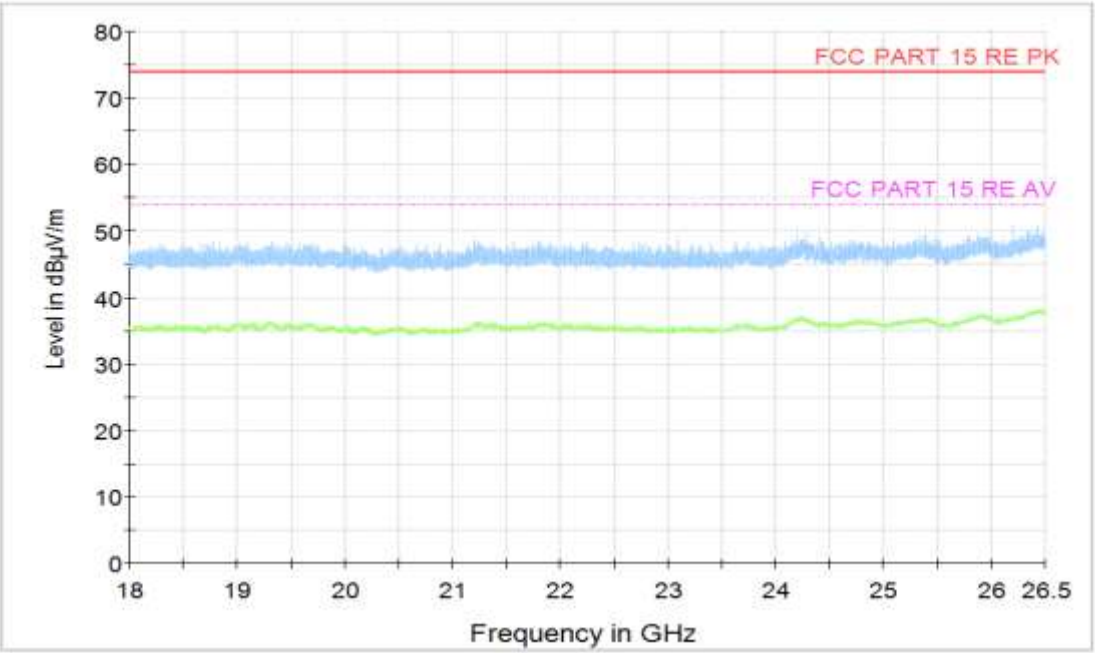

Figure A.4 Radiated Emission (Set.1, Charging and GSM850MHz idle , 18GHz to 26.5GHz)

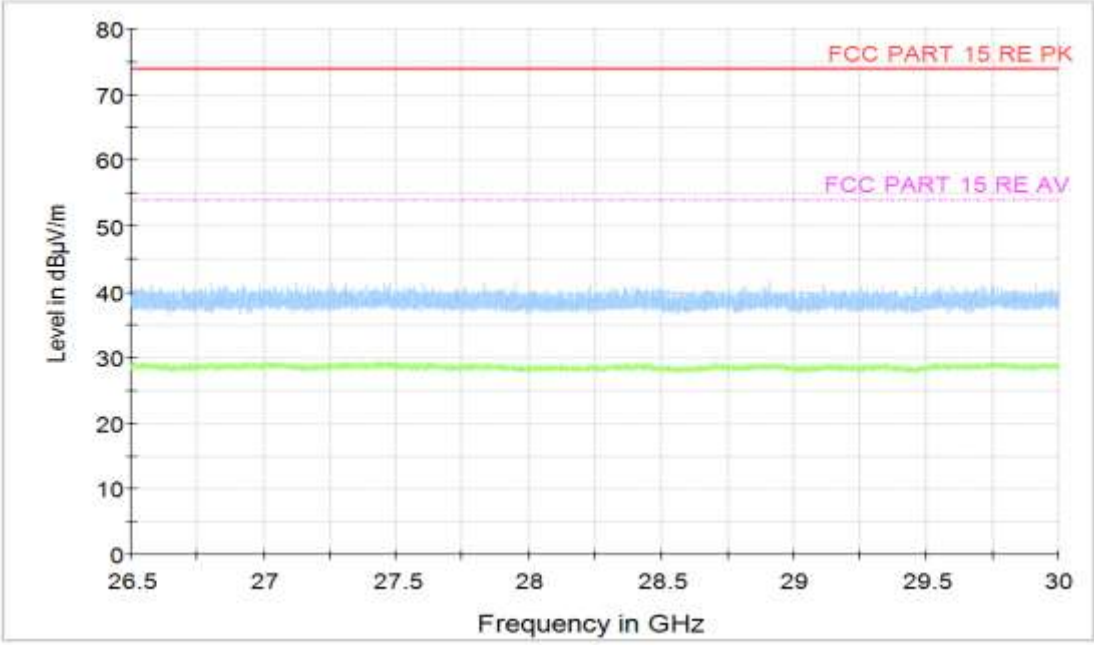

Figure A.5 Radiated Emission (Set.1, Charging and GSM850MHz idle , 26.5GHz to 30GHz)

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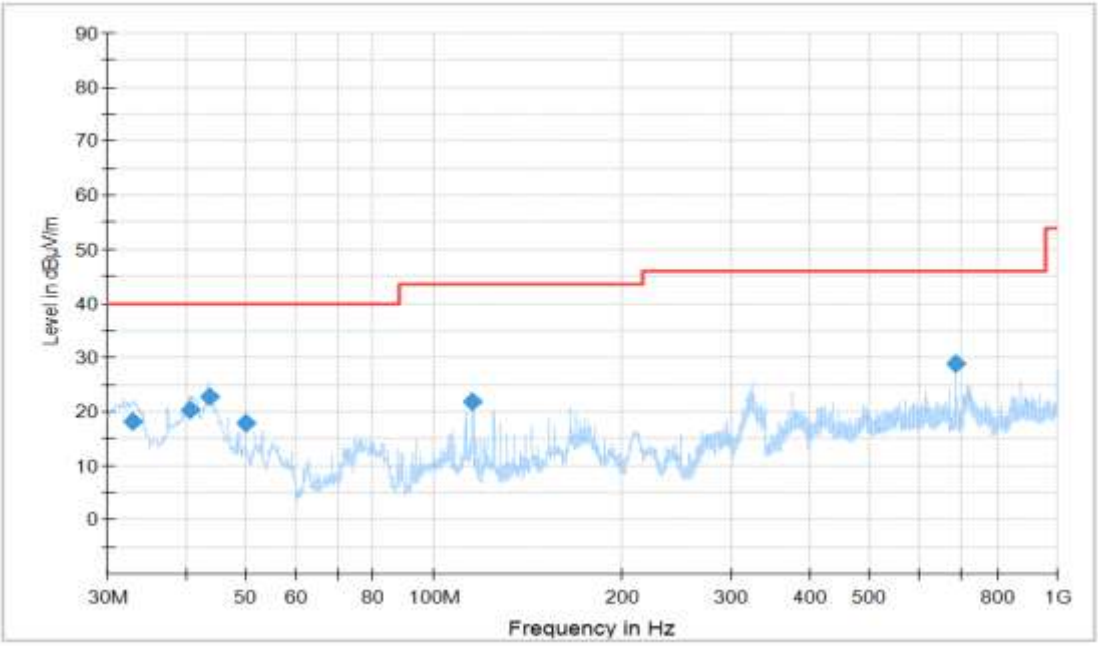

Figure A.6 Radiated Emission (Set.1, Charging and WCDMA Band 5 idle , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
32.943889	18.15	40	21.85	V	-25.9	44.05
40.622222	20.35	40	19.65	V	-29.6	49.95
43.747778	22.79	40	17.21	V	-31.9	54.69
50.012778	17.92	40	22.08	V	-36.5	54.42
115.635556	21.7	43.5	21.8	V	-31.7	53.4
687.518333	28.89	46	17.11	V	-19.8	48.69

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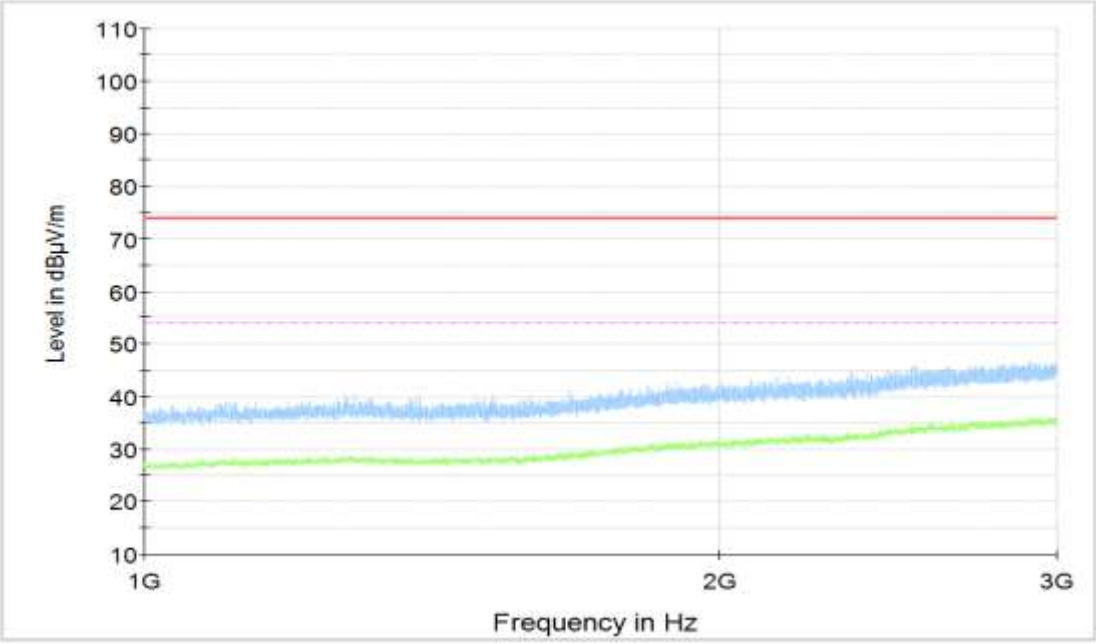

Figure A.7 Radiated Emission (Set.1, Charging and WCDMA Band 5 idle , 1GHz to 3GHz)

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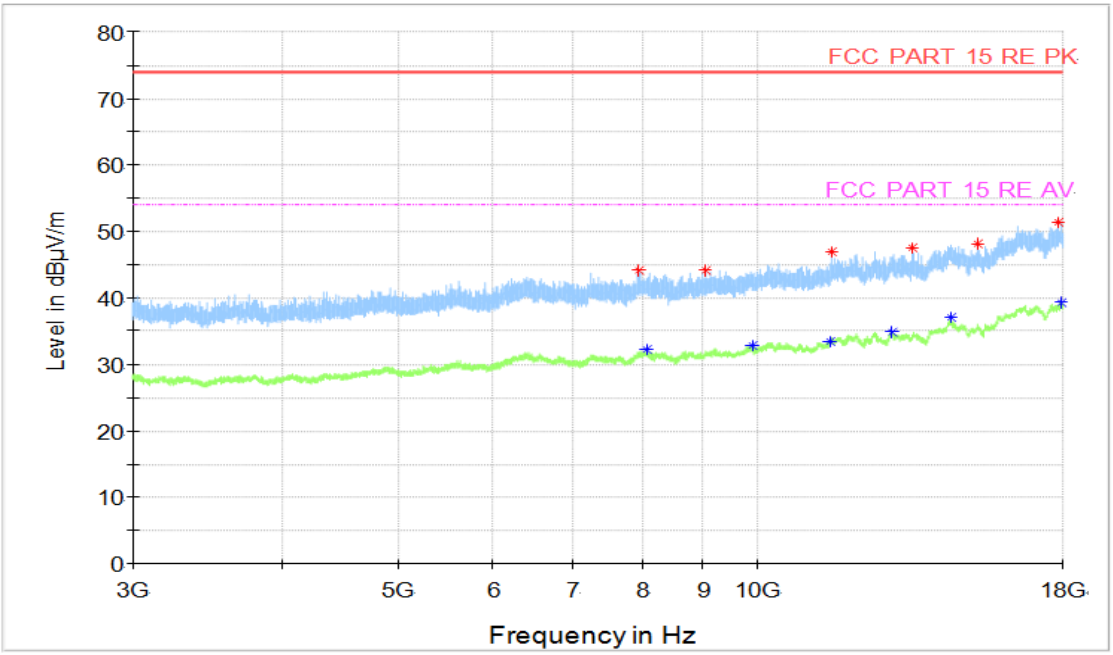

Figure A.8 Radiated Emission (Set.1, Charging and WCDMA Band 5 idle , 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
7964.5	44.13	74	29.87	V	2.7	41.43
9056	44.17	74	29.83	H	3.6	40.57
11528	47.02	74	26.98	H	6.3	40.72
13484	47.54	74	26.46	H	8.7	38.84
15280.5	48.08	74	25.92	V	11.3	36.78
17851.5	51.44	74	22.56	H	16.1	35.34

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8074.5	32.16	54	21.84	V	2.8	29.36
9891	32.78	54	21.22	H	4.5	28.28
11487	33.36	54	20.64	H	5.9	27.46
12963	34.89	54	19.11	H	8.5	26.39
14503	36.99	54	17.01	V	11.5	25.49
17950.5	39.26	54	14.74	H	16	23.26

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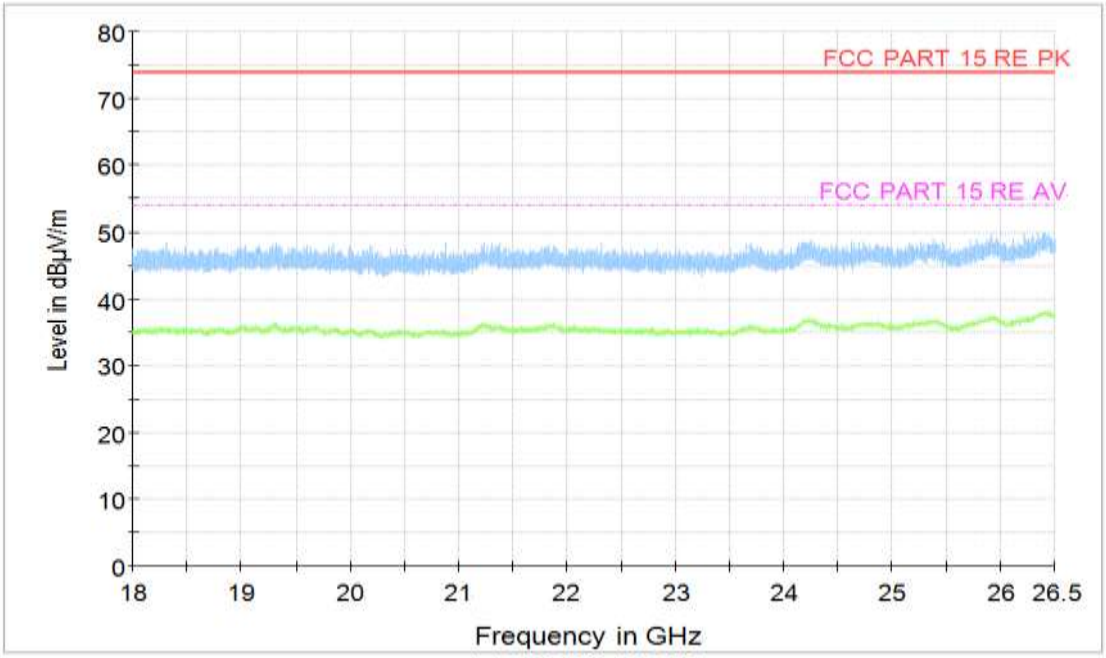

Figure A.9 Radiated Emission (Set.1, Charging and WCDMA Band 5 idle , 18GHz to 26.5GHz)

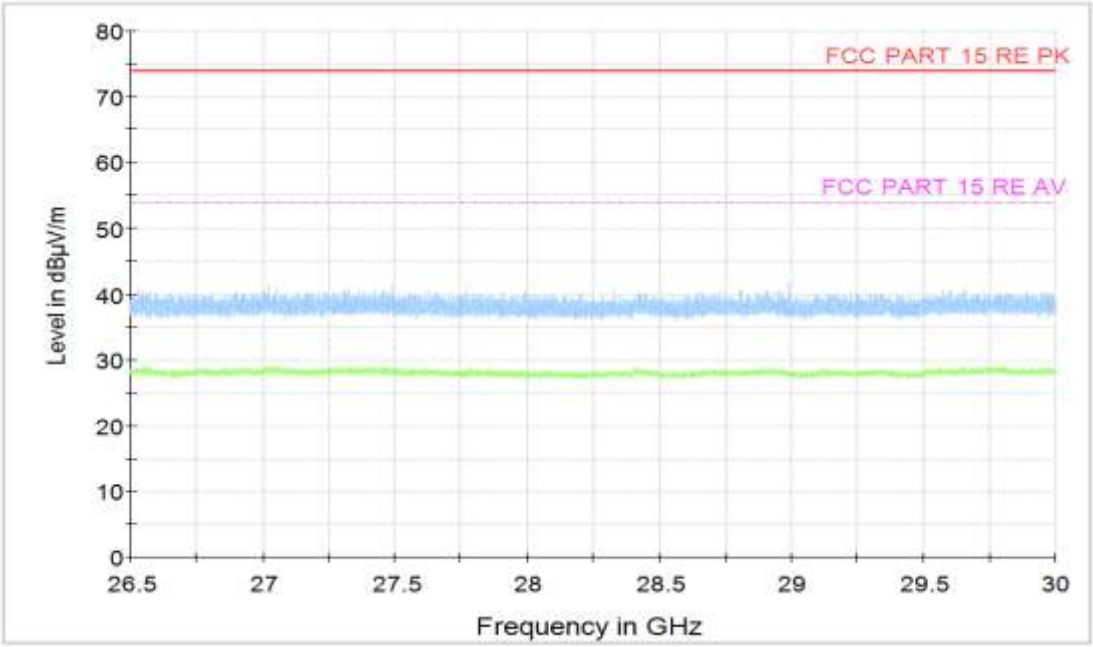

Figure A.10 Radiated Emission (Set.1, Charging and WCDMA Band 5 idle , 26.5GHz to 30GHz)

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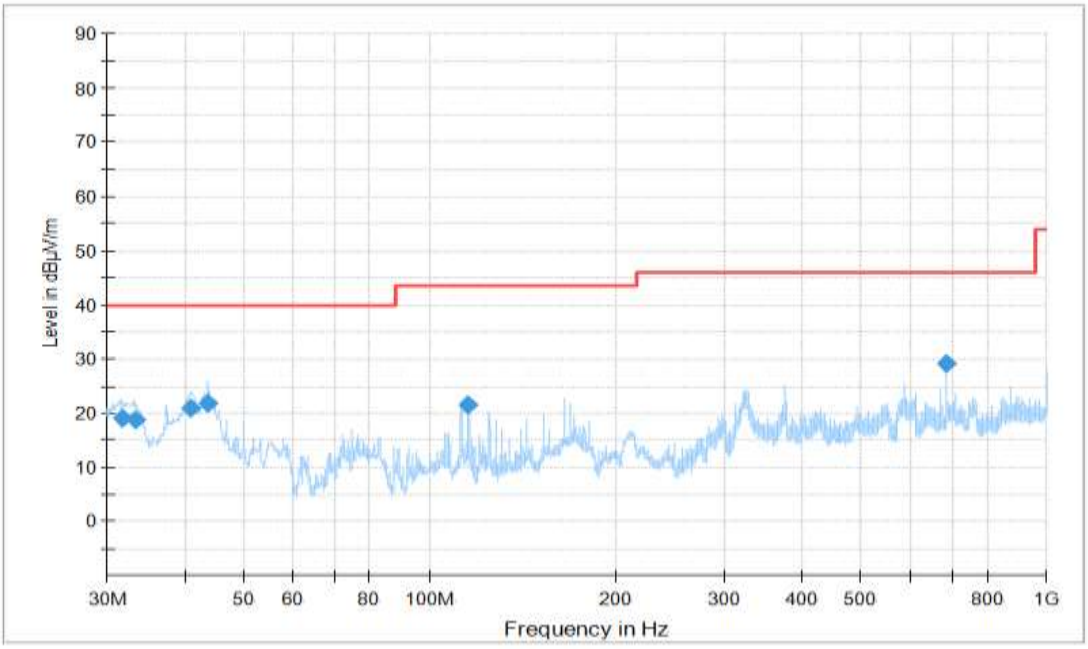

Figure A.11 Radiated Emission (Set.1, Charging and LTE Band 5 idle , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
31.676667	18.9	40	21.1	V	-25.6	44.5
33.293333	18.86	40	21.14	V	-26.1	44.96
40.933333	21.02	40	18.98	V	-29.7	50.72
43.747778	21.68	40	18.32	V	-31.9	53.58
115.635556	21.49	43.5	22.01	V	-31.7	53.19
687.518333	29.04	46	16.96	V	-19.8	48.84

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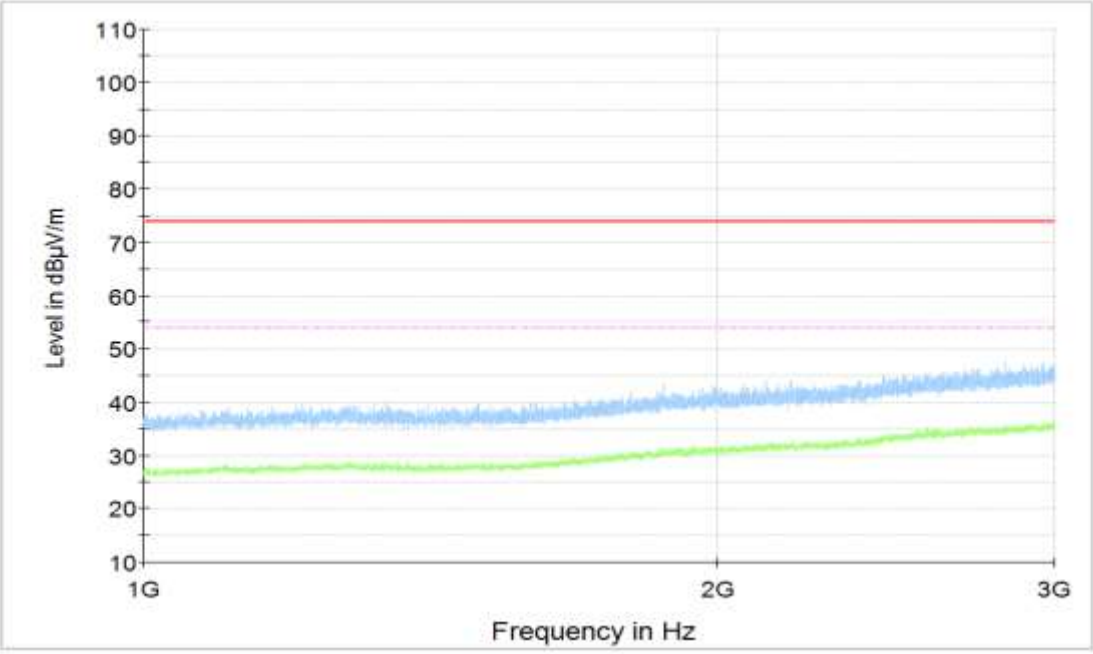

Figure A.12 Radiated Emission (Set.1, Charging and LTE Band 5 idle , 1GHz to 3GHz)

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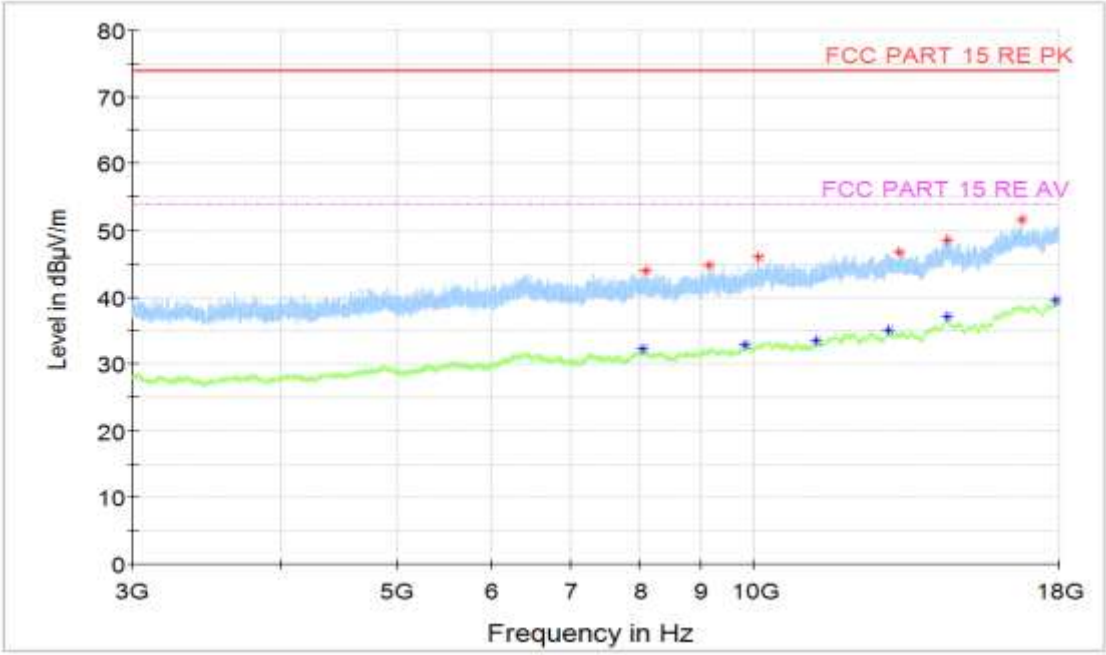

Figure A.13 Radiated Emission (Set.1, Charging and LTE Band 5 idle, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8090.5	43.95	74	30.05	H	2.7	41.25
9149	44.76	74	29.24	V	3.6	41.16
10061	45.88	74	28.12	V	4.9	40.98
13246.5	46.77	74	27.23	H	8.7	38.07
14497	48.62	74	25.38	V	11.4	37.22
16729.5	51.66	74	22.34	V	14.9	36.76

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8062	32.2	54	21.8	V	2.8	29.4
9817.5	32.91	54	21.09	H	4.4	28.51
11256	33.55	54	20.45	V	5.5	28.05
12934.5	35.13	54	18.87	V	8.6	26.53
14503	37.03	54	16.97	V	11.5	25.53
17892	39.41	54	14.59	H	16.2	23.21

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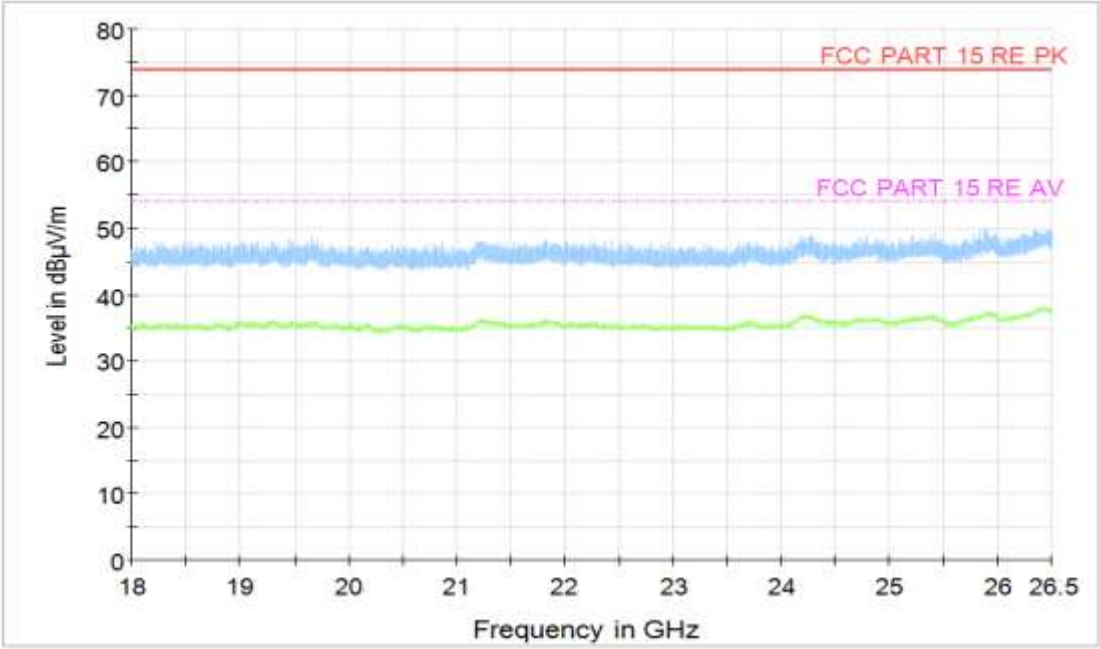

Figure A.14 Radiated Emission (Set.1, Charging and LTE Band 5 idle , 18GHz to 26.5GHz)

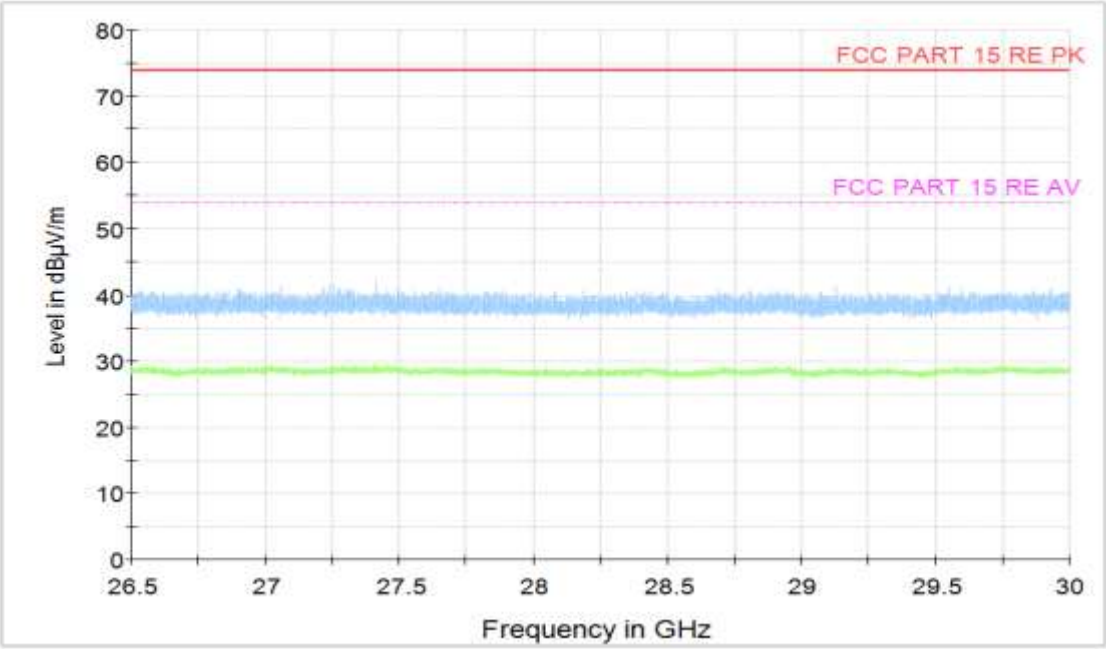

Figure A.15 Radiated Emission (Set.1, Charging and LTE Band 5 idle , 26.5GHz to 30GHz)

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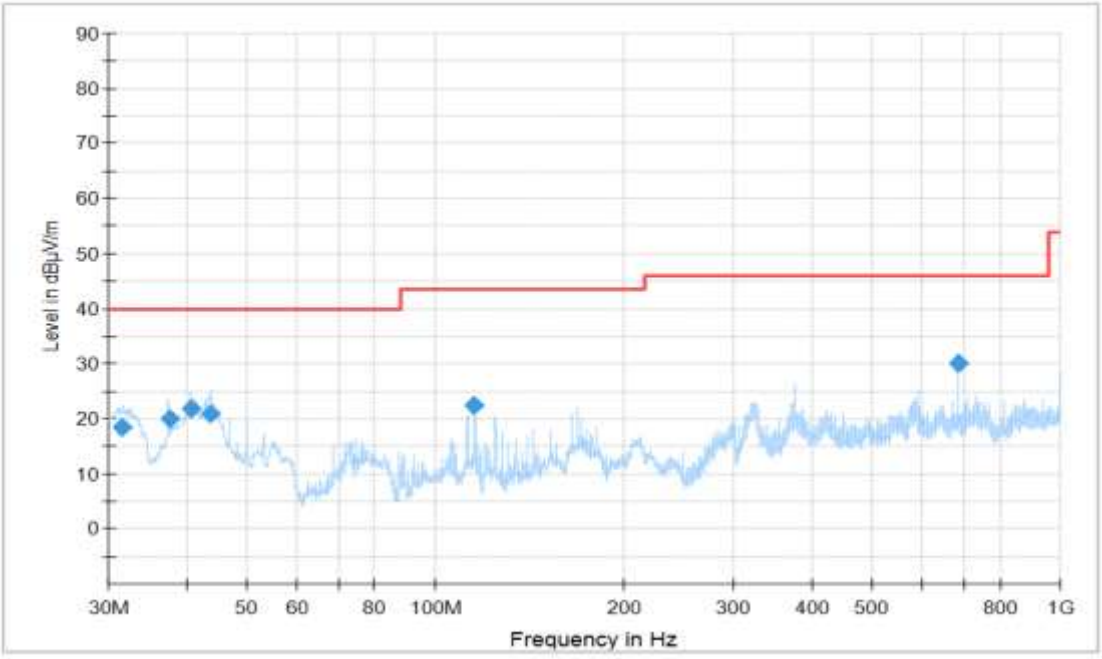

Figure A.16 Radiated Emission (Set.1, Charging and LTE Band 12 idle , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
31.501111	18.45	40	21.55	V	-25.5	43.95
37.510556	20.08	40	19.92	V	-28	48.08
40.636111	21.86	40	18.14	V	-29.6	51.46
43.695556	20.93	40	19.07	V	-31.8	52.73
115.635556	22.46	43.5	21.04	V	-31.7	54.16
687.532222	30.04	46	15.96	V	-19.8	49.84

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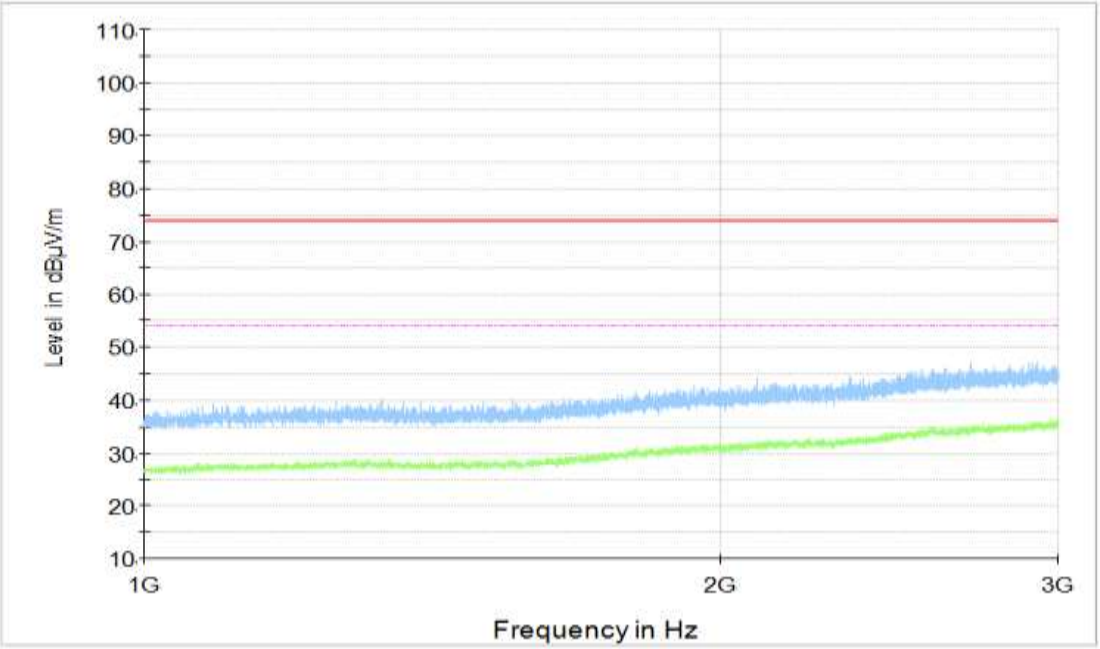

Figure A.17 Radiated Emission (Set.1, Charging and LTE Band 12 idle , 1GHz to 3GHz)

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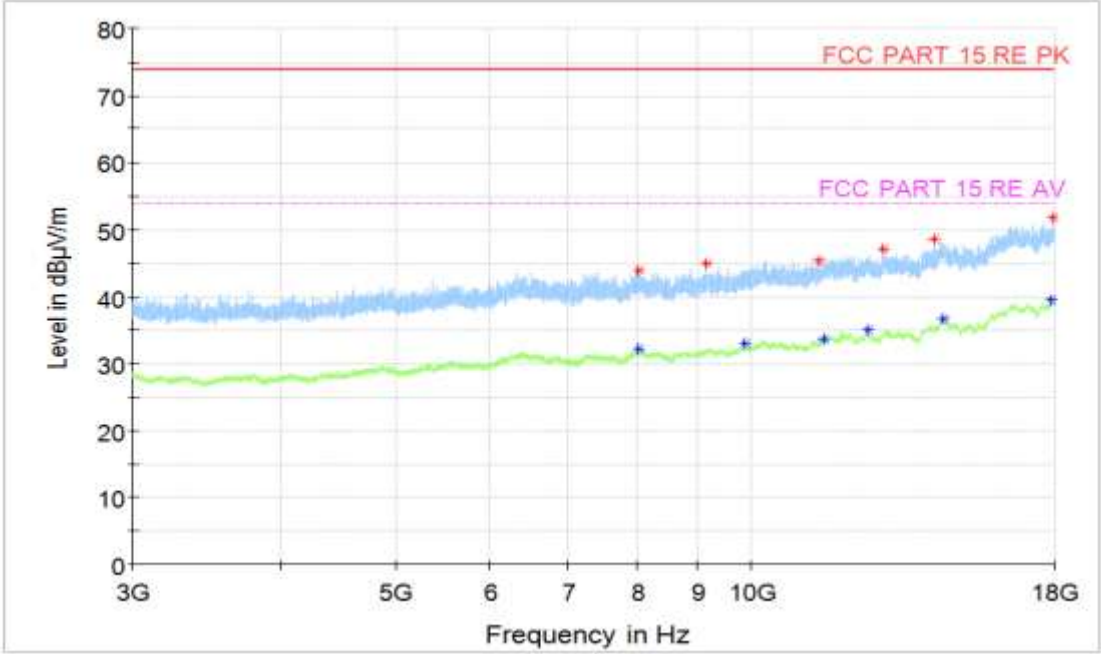

Figure A.18 Radiated Emission (Set.1, Charging and LTE Band 12 idle, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8022	43.89	74	30.11	V	2.8	41.09
9161	44.96	74	29.04	V	3.7	41.26
11391.5	45.37	74	28.63	V	5.6	39.77
12927	47.09	74	26.91	H	8.6	38.49
14267	48.62	74	25.38	V	10.9	37.72
17948	51.8	74	22.2	V	16	35.8

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8027.5	32.18	54	21.82	V	2.8	29.38
9854.5	32.96	54	21.04	H	4.5	28.46
11499.5	33.61	54	20.39	V	6.1	27.51
12531.5	35.03	54	18.97	H	8	27.03
14515.5	36.77	54	17.23	H	11.5	25.27
17911	39.41	54	14.59	H	16.3	23.11

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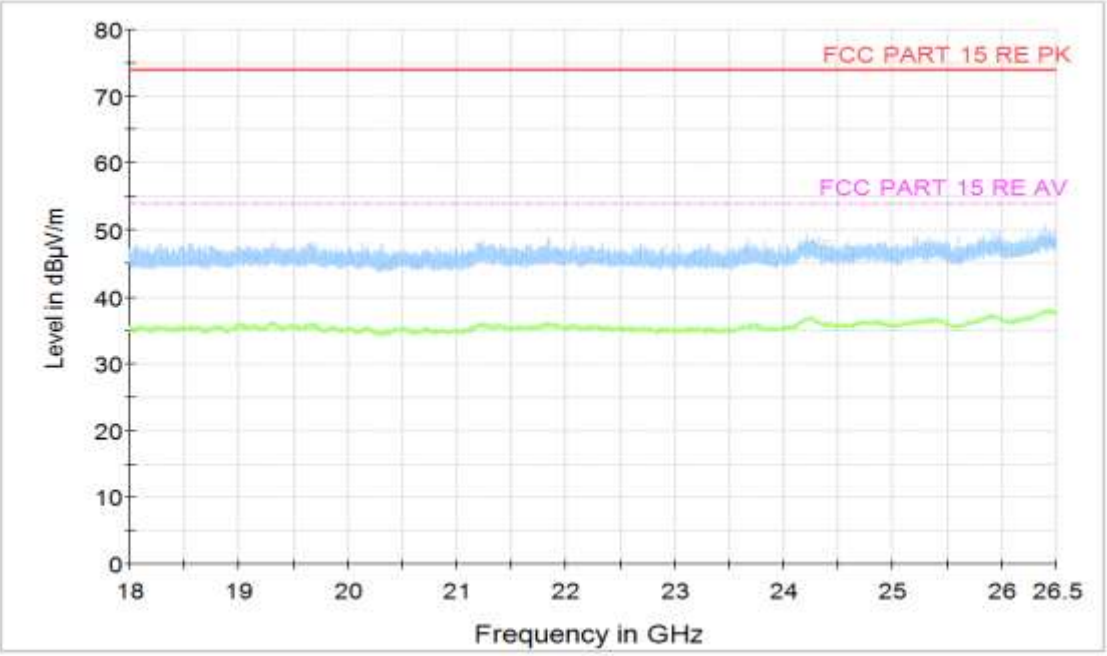

Figure A.19 Radiated Emission (Set.1, Charging and LTE Band 12 idle , 18GHz to 26.5GHz)

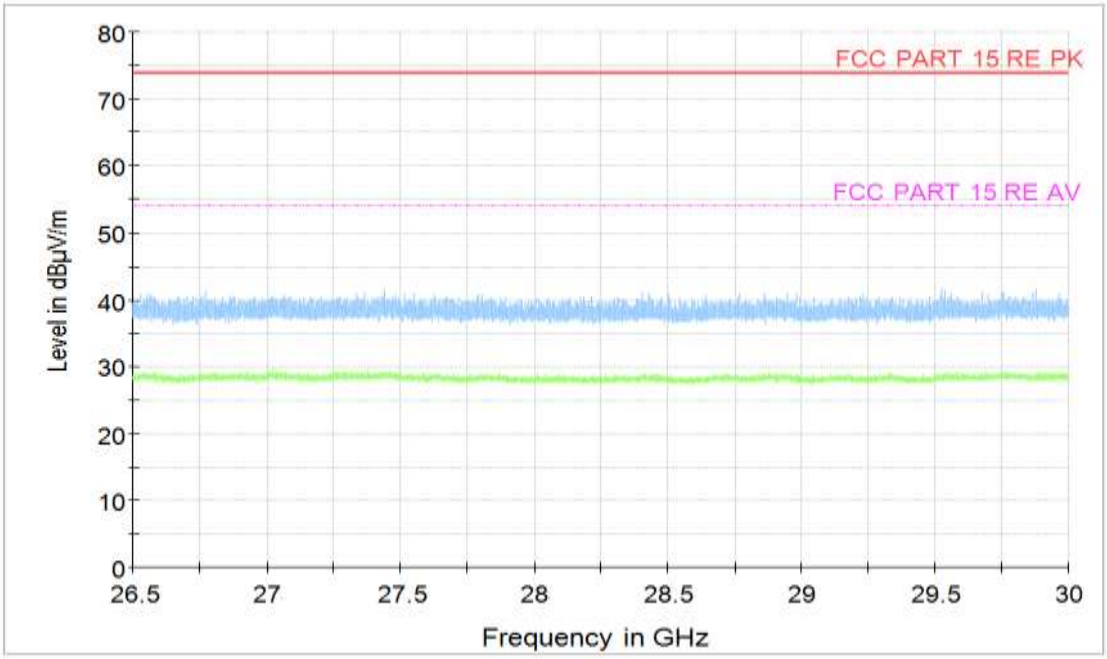

Figure A.20 Radiated Emission (Set.1, Charging and LTE Band 12 idle , 26.5GHz to 30GHz)

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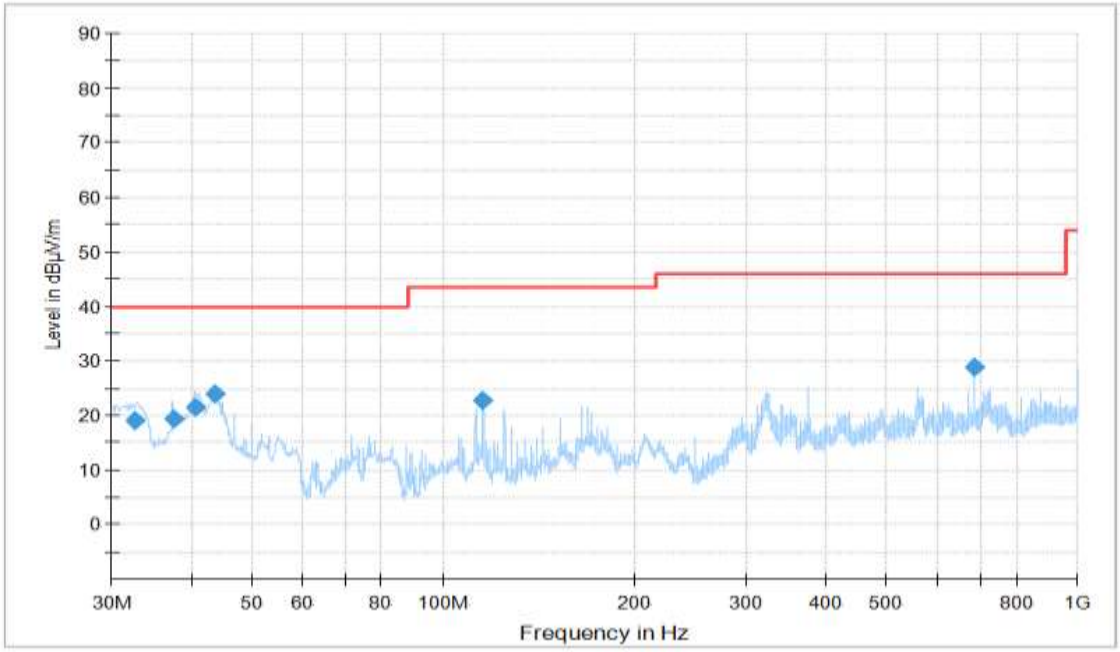

Figure A.21 Radiated Emission (Set.1, Charging and LTE Band 13 idle , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
32.771667	18.93	40	21.07	V	-25.9	44.83
37.510556	19.47	40	20.53	V	-28	47.47
40.622222	21.65	40	18.35	V	-29.6	51.25
43.747778	23.85	40	16.15	V	-31.9	55.75
115.635556	22.69	43.5	20.81	V	-31.7	54.39
687.518333	28.74	46	17.26	V	-19.8	48.54

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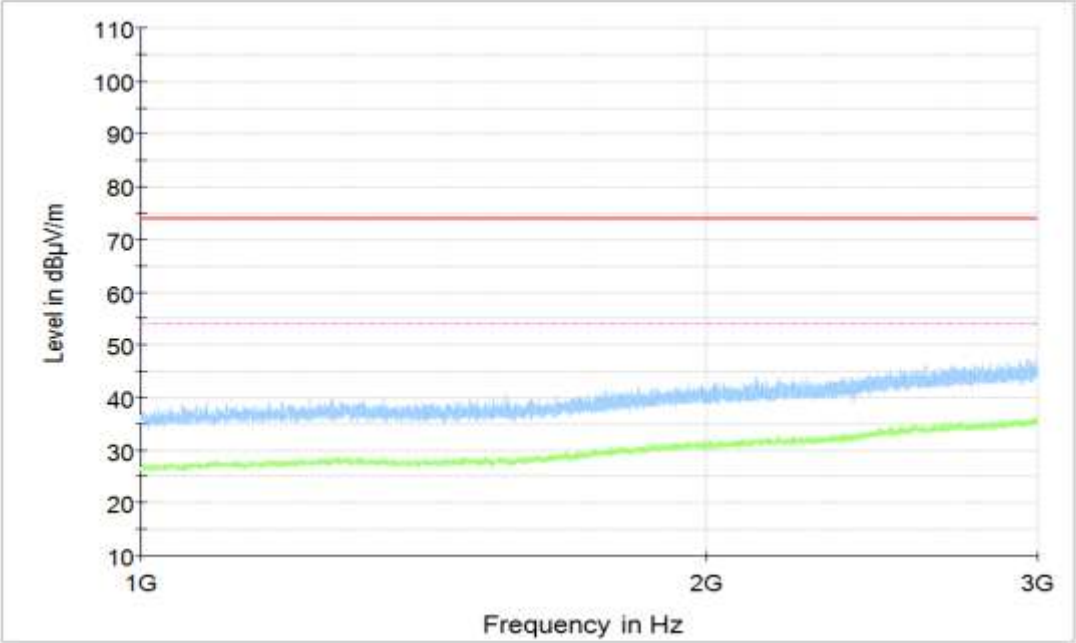

Figure A.22 Radiated Emission (Set.1, Charging and LTE Band 13 idle , 1GHz to 3GHz)

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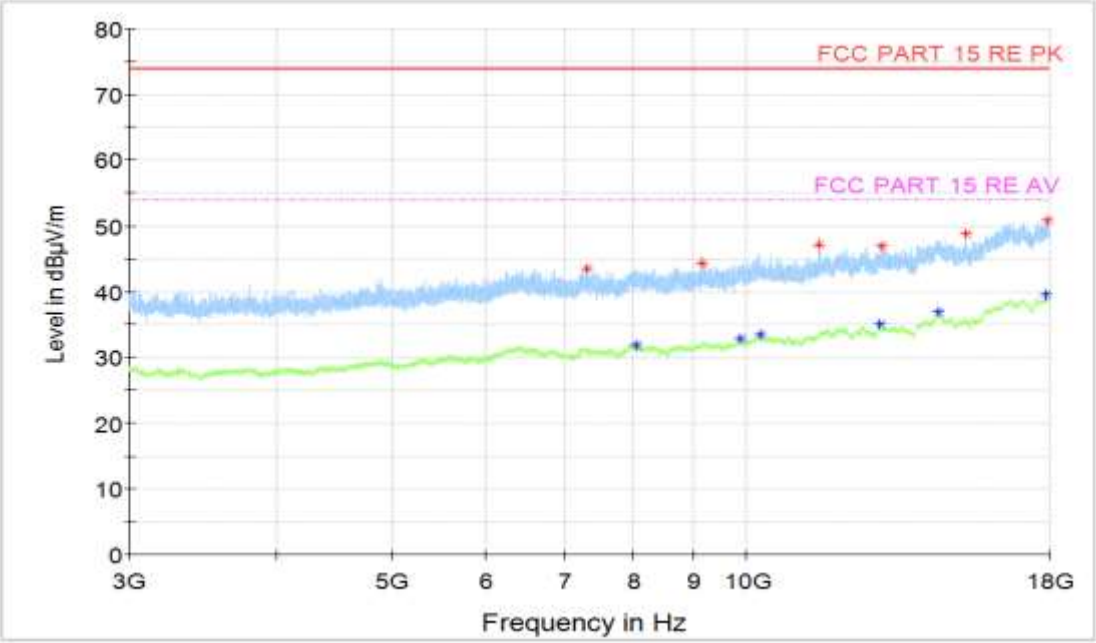

Figure A.23 Radiated Emission (Set.1, Charging and LTE Band 13 idle, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
7326.5	43.53	74	30.47	H	2	41.53
9159	44.25	74	29.75	H	3.7	40.55
11481.5	47.06	74	26.94	V	5.9	41.16
12984	47.01	74	26.99	V	8.3	38.71
15313.5	48.75	74	25.25	H	11.5	37.25
17925	50.87	74	23.13	H	16.1	34.77

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8061.5	31.93	54	22.07	V	2.8	29.13
9863.5	32.92	54	21.08	H	4.5	28.42
10250.5	33.52	54	20.48	H	5.2	28.32
12951.5	35.01	54	18.99	V	8.6	26.41
14506	36.82	54	17.18	V	11.5	25.32
17916.5	39.59	54	14.41	V	16.2	23.39

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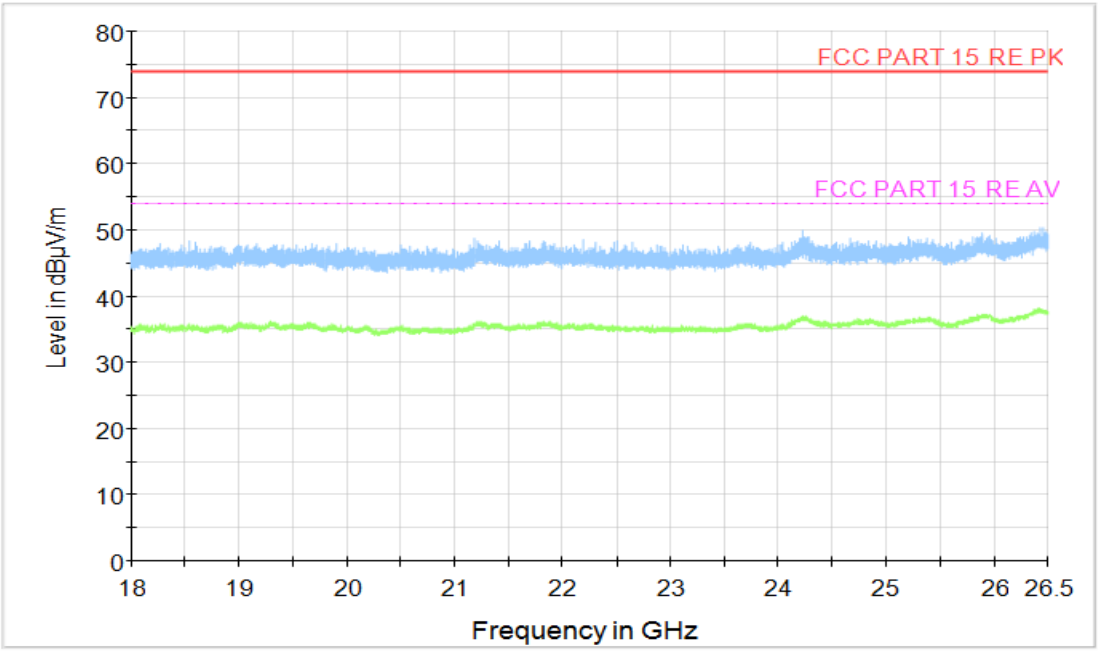

Figure A.24 Radiated Emission (Set.1, Charging and LTE Band 13 idle , 18GHz to 26.5GHz)

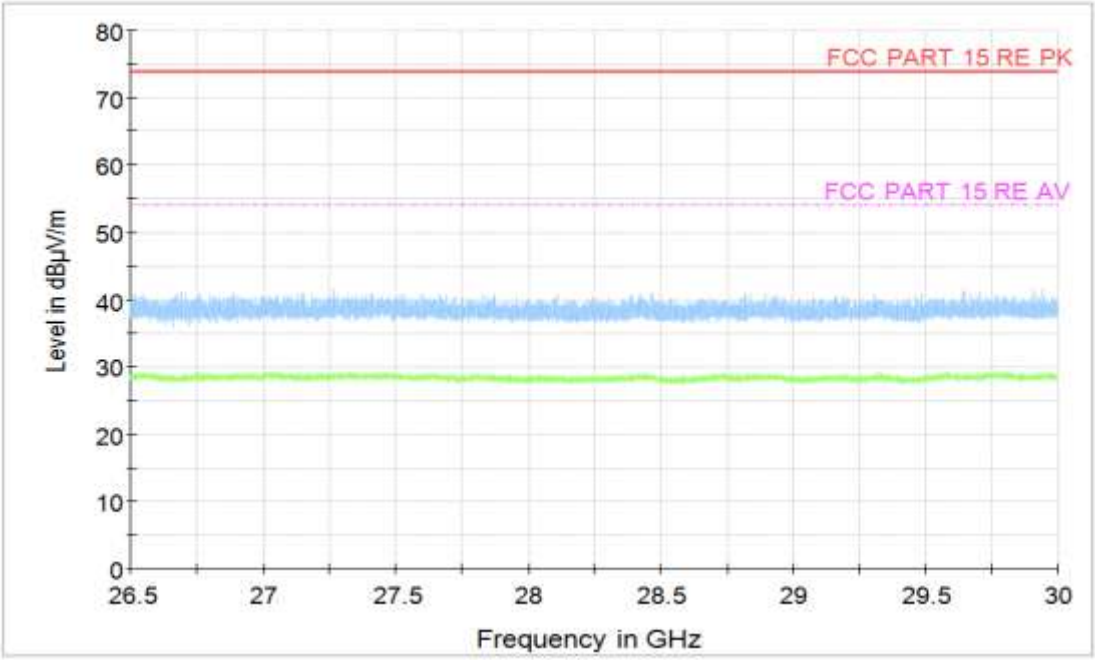

Figure A.25 Radiated Emission (Set.1, Charging and LTE Band 13 idle , 26.5GHz to 30GHz)

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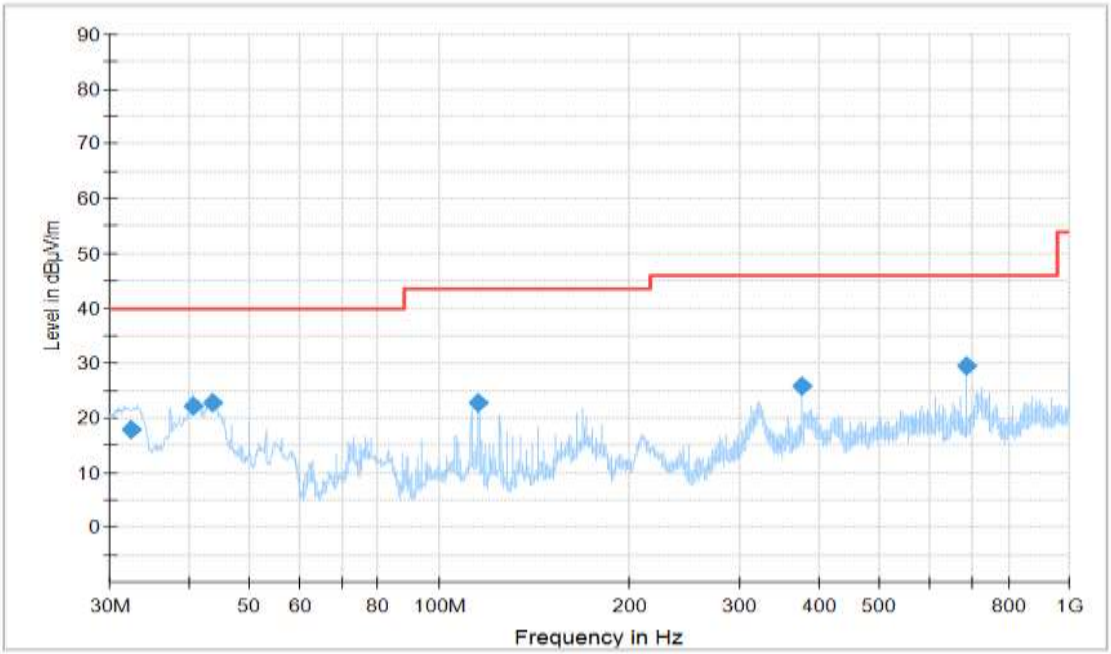

Figure A.26 Radiated Emission (Set.1, Charging and LTE Band 14 idle , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
32.500556	17.71	40	22.29	V	-25.9	43.61
40.622222	22.2	40	17.8	V	-29.6	51.8
43.775556	22.79	40	17.21	V	-31.9	54.69
115.609444	22.64	43.5	20.86	V	-31.7	54.34
375.016667	25.75	46	20.25	H	-26.7	52.45
687.532222	29.6	46	16.4	V	-19.8	49.4

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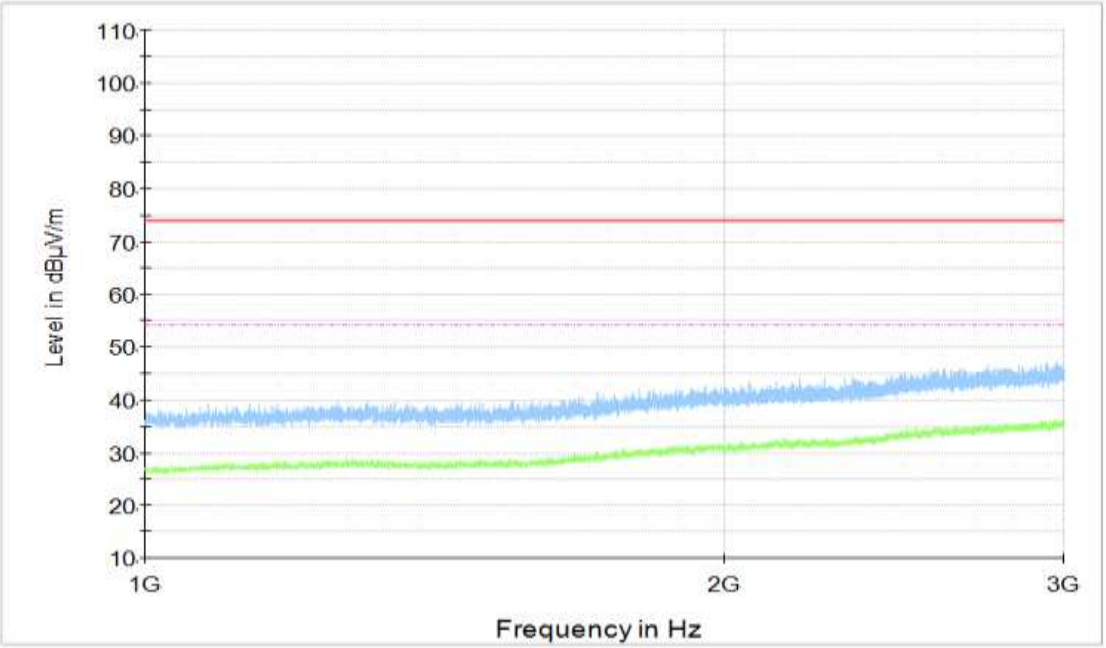

Figure A.27 Radiated Emission (Set.1, Charging and LTE Band 14 idle , 1GHz to 3GHz)

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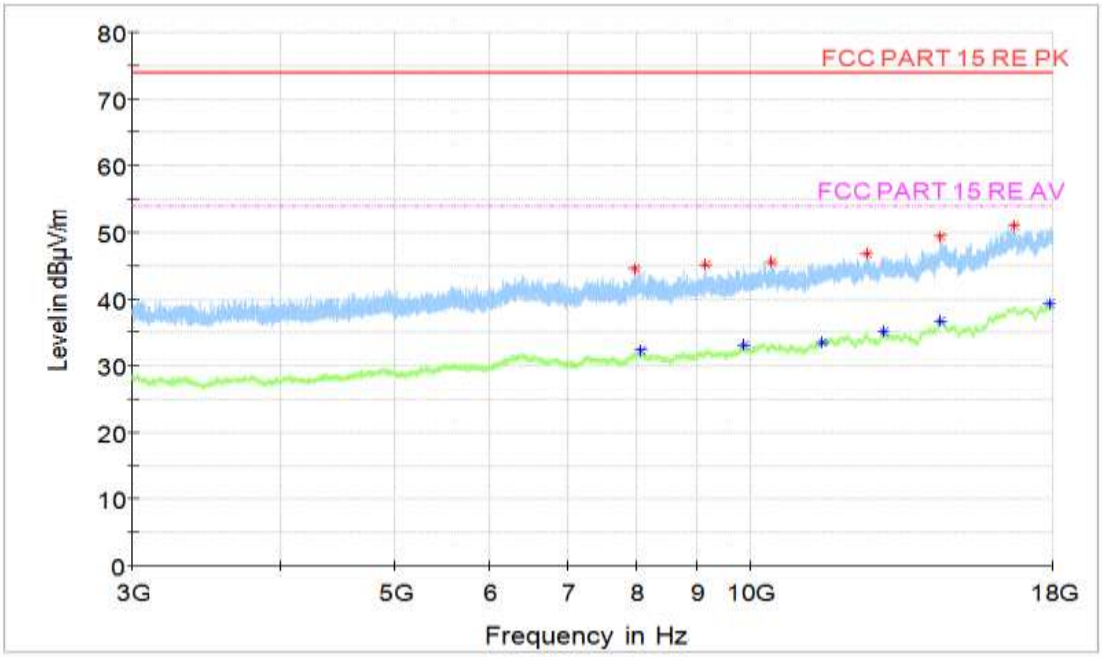

Figure A.28 Radiated Emission (Set.1, Charging and LTE Band 14 idle, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
7979.5	44.46	74	29.54	V	2.8	41.66
9142	45.2	74	28.8	V	3.6	41.6
10427.5	45.49	74	28.51	H	5.1	40.39
12547.5	46.66	74	27.34	V	8.1	38.56
14477	49.38	74	24.62	H	11.3	38.08
16707.5	50.94	74	23.06	H	14.9	36.04

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8076	32.16	54	21.84	H	2.8	29.36
9855.5	32.97	54	21.03	V	4.5	28.47
11479.5	33.47	54	20.53	H	5.9	27.57
12939	35.04	54	18.96	H	8.6	26.44
14466	36.75	54	17.25	V	11.2	25.55
17916.5	39.27	54	14.73	H	16.2	23.07

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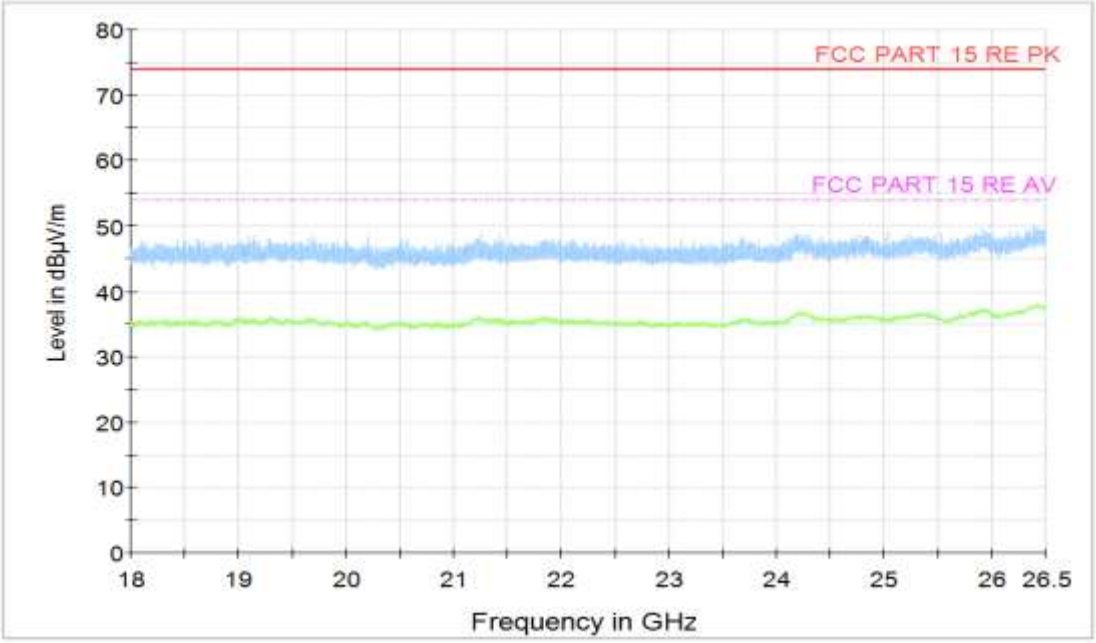

Figure A.29 Radiated Emission (Set.1, Charging and LTE Band 14 idle , 18GHz to 26.5GHz)

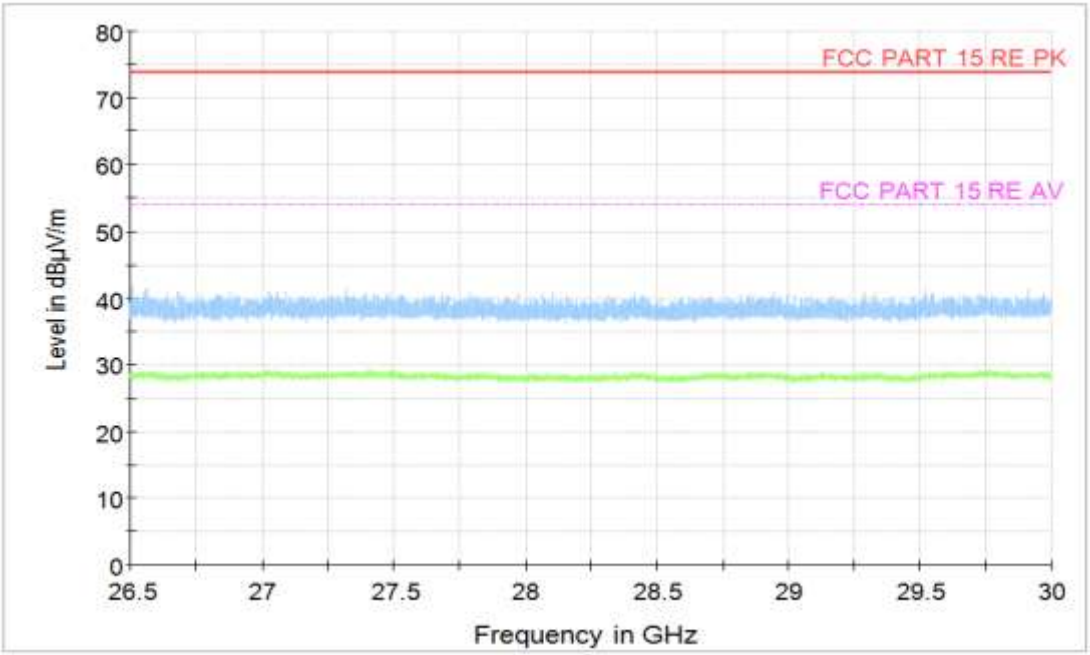

Figure A.30 Radiated Emission (Set.1, Charging and LTE Band 14 idle , 26.5GHz to 30GHz)

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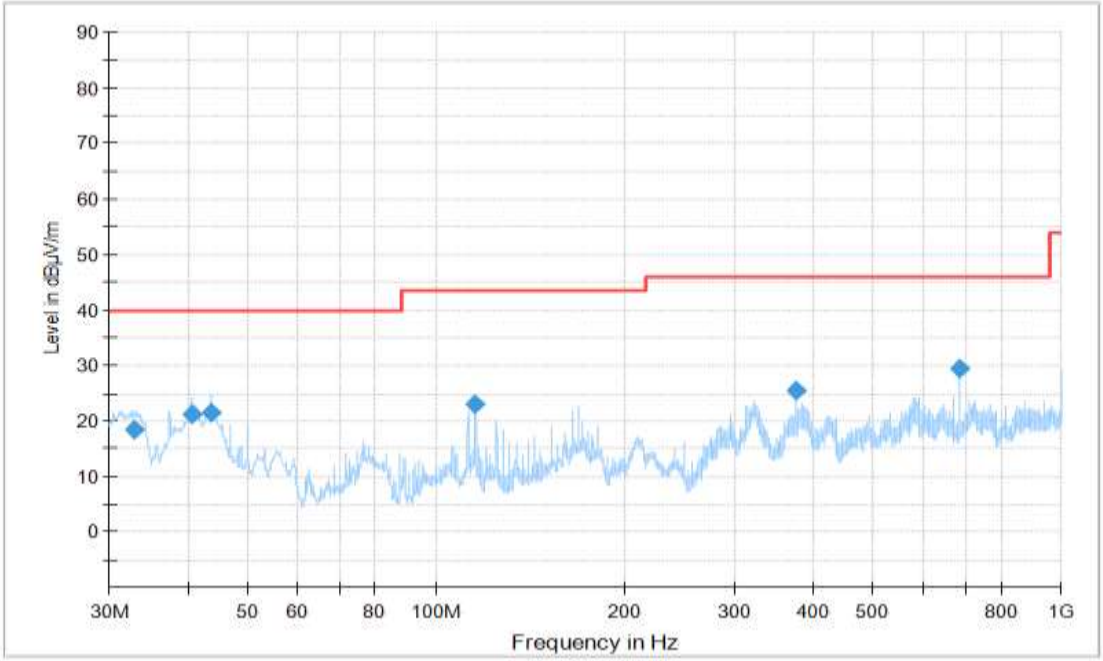

Figure A.31 Radiated Emission (Set.1, Charging and LTE Band 17 idle , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
32.971667	18.3	40	21.7	V	-25.9	44.2
40.622222	21.05	40	18.95	V	-29.6	50.65
43.721667	21.45	40	18.55	V	-31.8	53.25
115.635556	23.05	43.5	20.45	V	-31.7	54.75
375.016667	25.59	46	20.41	H	-26.7	52.29
687.518333	29.47	46	16.53	V	-19.8	49.27

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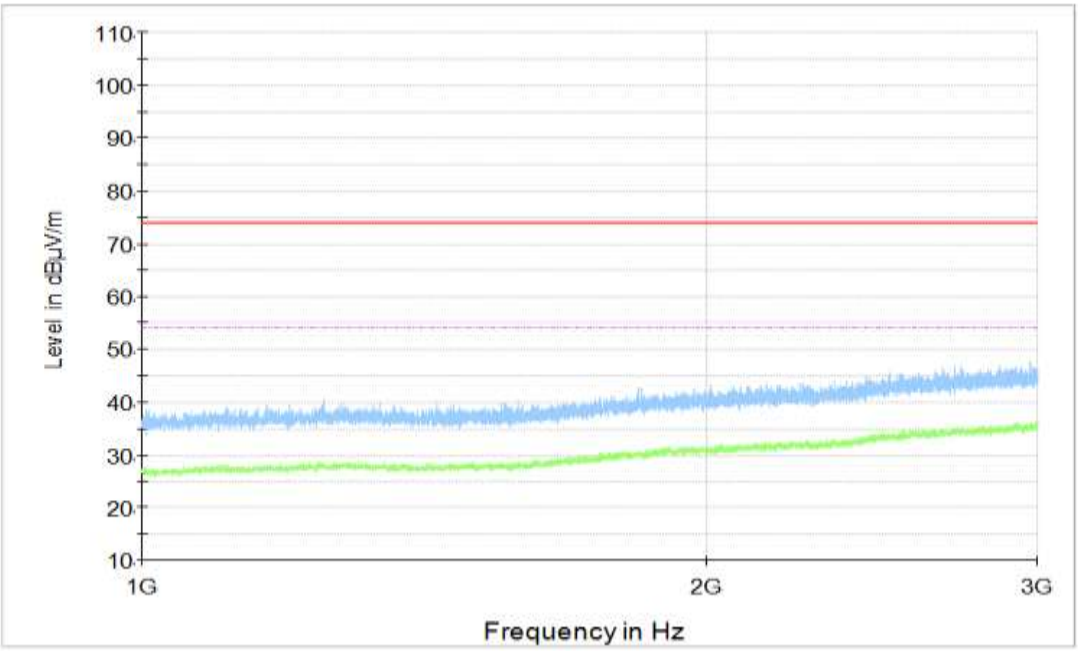

Figure A.32 Radiated Emission (Set.1, Charging and LTE Band 17 idle , 1GHz to 3GHz)

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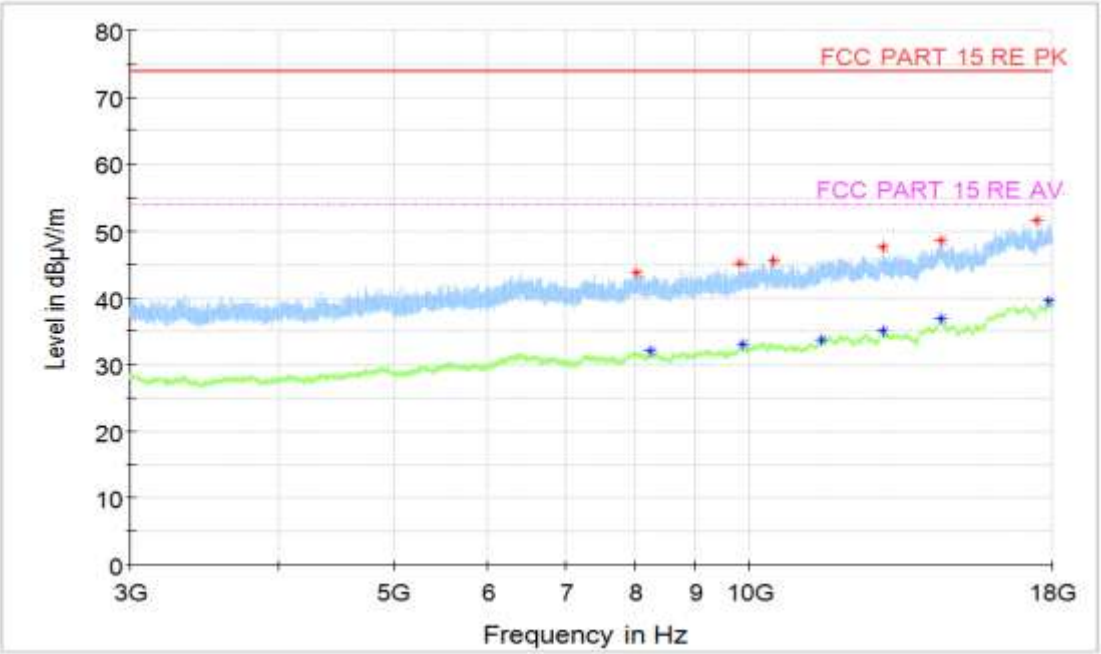

Figure A.33 Radiated Emission (Set.1, Charging and LTE Band 17 idle, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8025.5	43.76	74	30.24	H	2.8	40.96
9795	45.06	74	28.94	V	4.2	40.86
10465	45.48	74	28.52	V	5	40.48
12940	47.48	74	26.52	V	8.6	38.88
14521	48.52	74	25.48	H	11.5	37.02
17489	51.54	74	22.46	H	14.9	36.64

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8252.5	31.99	54	22.01	H	3.1	28.89
9866.5	32.99	54	21.01	H	4.5	28.49
11487	33.58	54	20.42	H	5.9	27.68
12970.5	35.09	54	18.91	V	8.5	26.59
14500.5	36.88	54	17.12	H	11.5	25.38
17886	39.45	54	14.55	H	16.2	23.25

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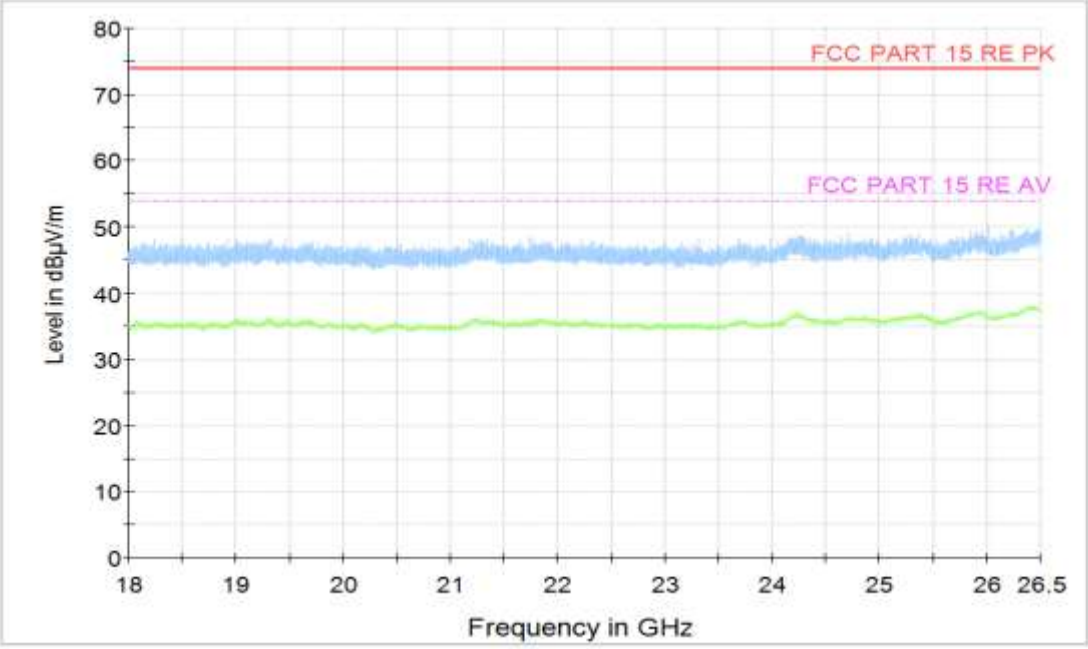

Figure A.34 Radiated Emission (Set.1, Charging and LTE Band 17 idle , 18GHz to 26.5GHz)

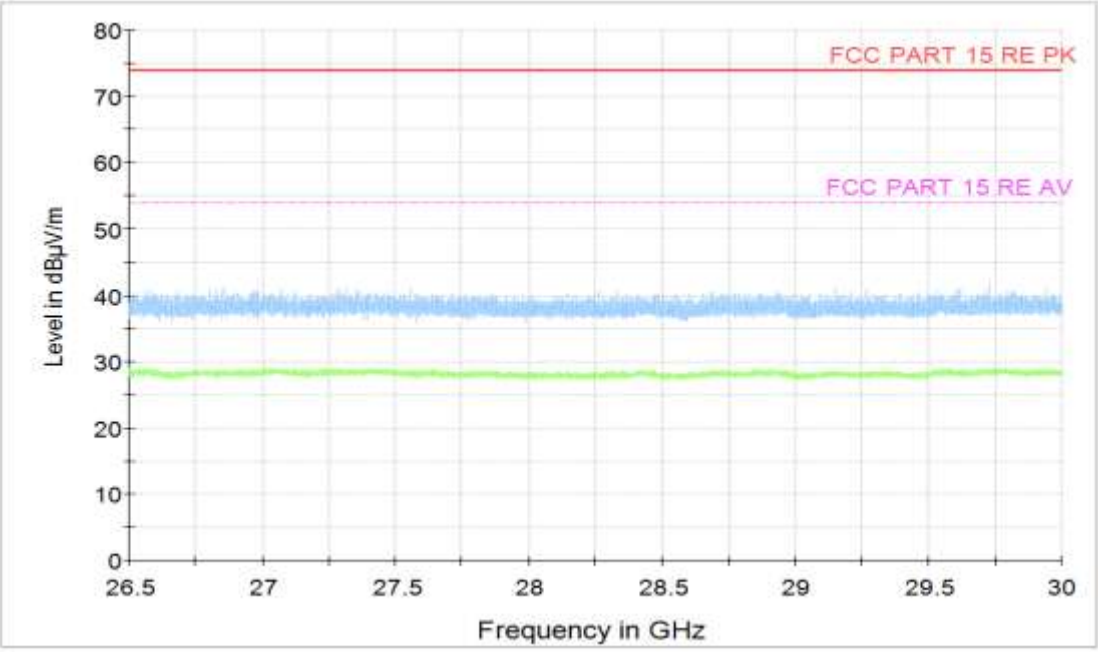

Figure A.35 Radiated Emission (Set.1, Charging and LTE Band 17 idle , 26.5GHz to 30GHz)

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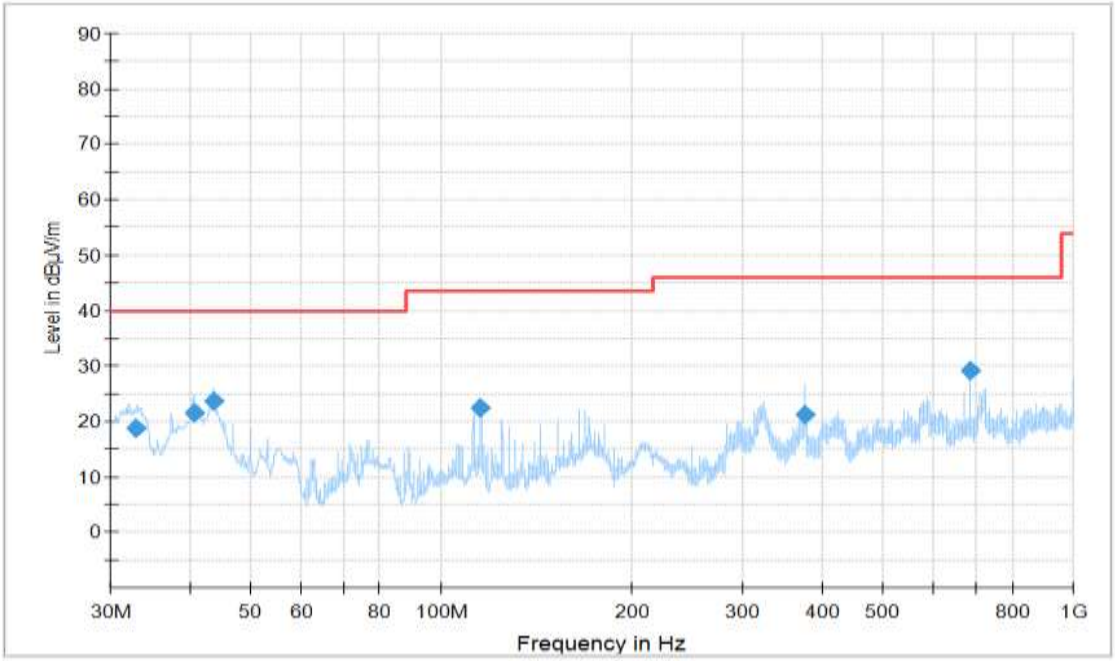

Figure A.36 Radiated Emission (Set.1, Charging and LTE Band 26 idle , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
32.997778	18.6	40	21.4	V	-25.9	44.5
40.636111	21.38	40	18.62	V	-29.6	50.98
43.747778	23.49	40	16.51	V	-31.9	55.39
115.635556	22.37	43.5	21.13	V	-31.7	54.07
375.030556	21.29	46	24.71	H	-26.7	47.99
687.518333	29.24	46	16.76	V	-19.8	49.04

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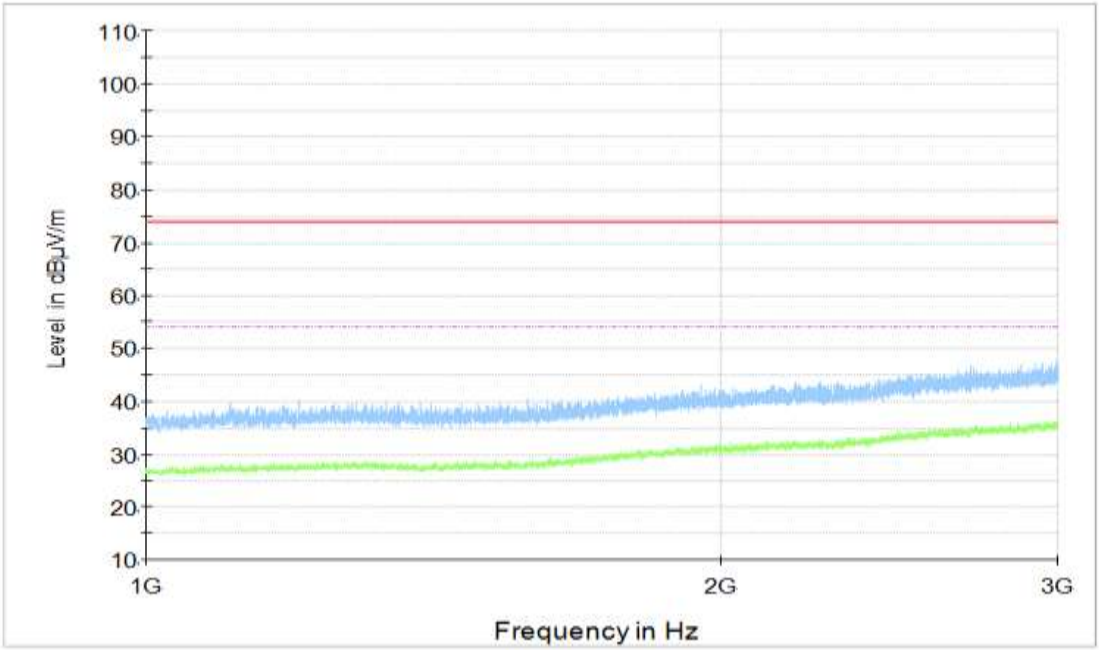

Figure A.37 Radiated Emission (Set.1, Charging and LTE Band 26 idle , 1GHz to 3GHz)

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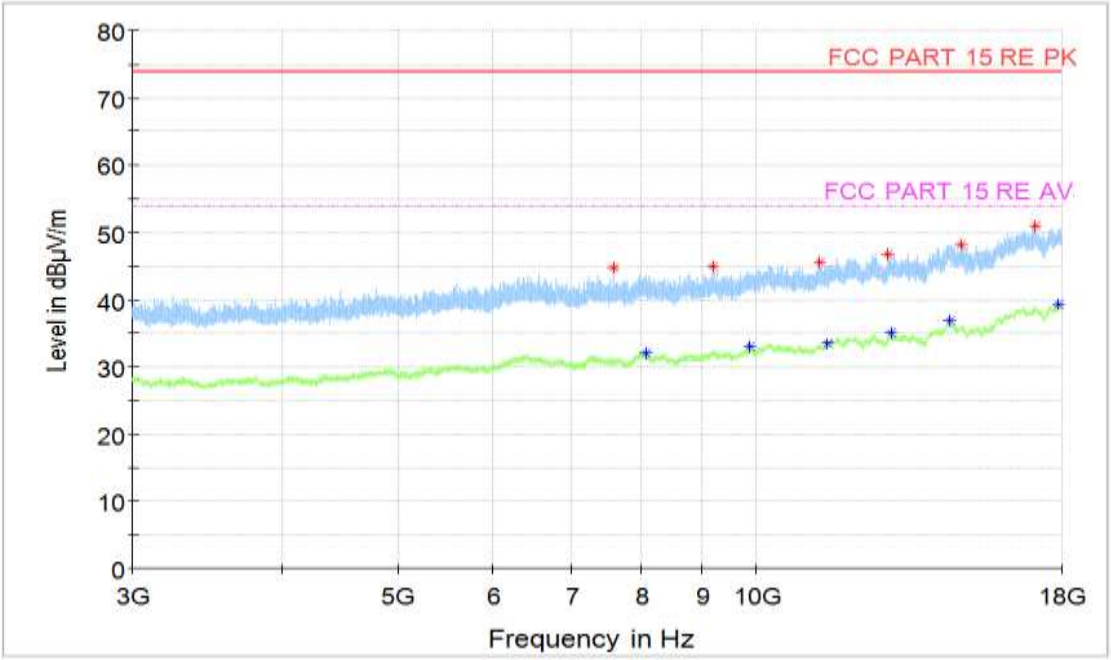

Figure A.38 Radiated Emission (Set.1, Charging and LTE Band 26 idle, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7576	44.75	74	29.25	V	2	42.75
9172	44.94	74	29.06	V	3.7	41.24
11297	45.5	74	28.5	V	5.4	40.1
12882.5	46.78	74	27.22	H	8.4	38.38
14823.5	48.14	74	25.86	V	10.7	37.44
17099.5	50.93	74	23.07	V	15.1	35.83

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
8073.5	32.08	54	21.92	V	2.8	29.28
9879.5	32.96	54	21.04	H	4.5	28.46
11472	33.52	54	20.48	H	5.9	27.62
12937	34.97	54	19.03	V	8.6	26.37
14513.5	36.85	54	17.15	H	11.5	25.35
17917.5	39.29	54	14.71	H	16.2	23.09

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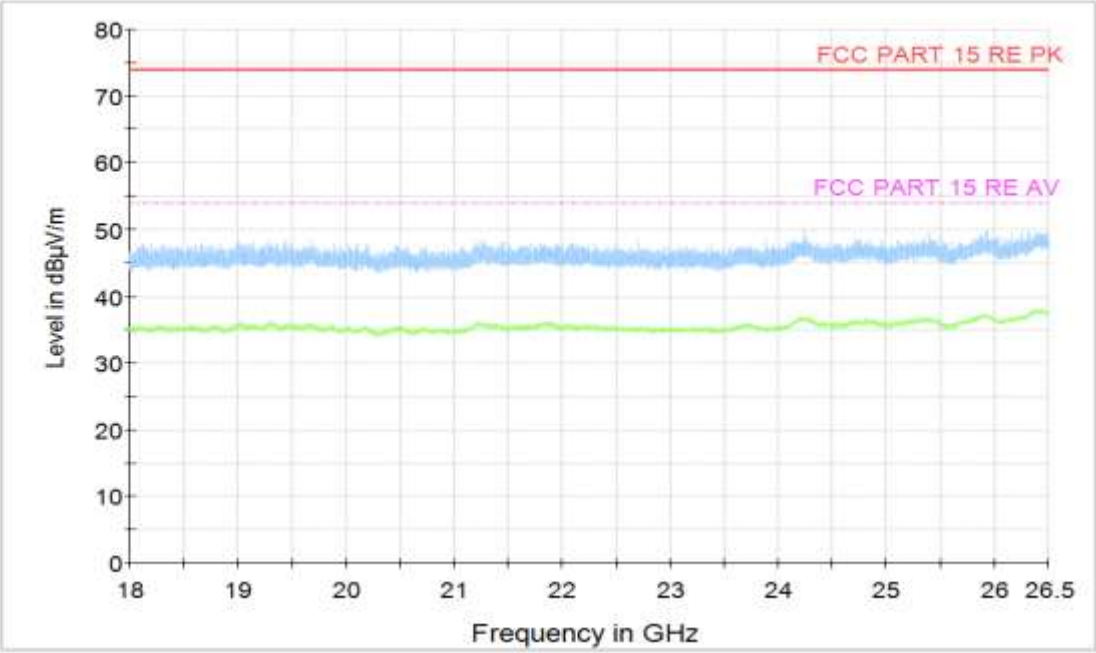

Figure A.39 Radiated Emission (Set.1, Charging and LTE Band 26 idle , 18GHz to 26.5GHz)

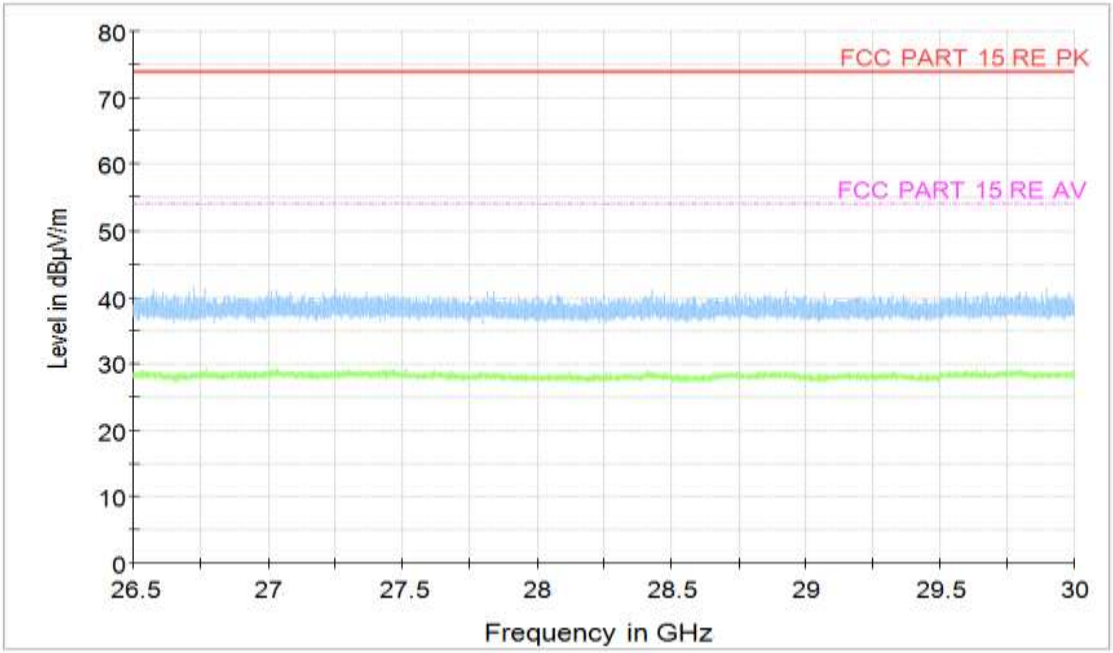

Figure A.40 Radiated Emission (Set.1, Charging and LTE Band 26 idle , 26.5GHz to 30GHz)

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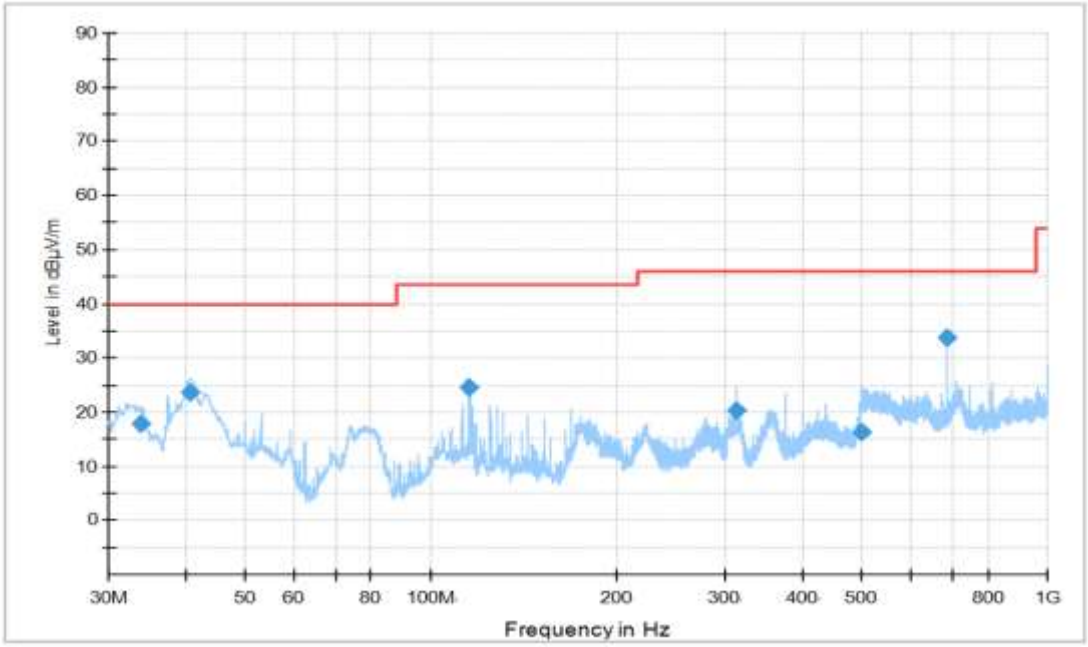

Figure A.41 Radiated Emission (Set.1, Camera Mode , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
33.849444	17.88	40	22.12	V	-26.4	44.28
40.61	23.63	40	16.37	V	-29.7	53.33
115.635556	24.44	43.5	19.06	V	-31.6	56.04
312.505556	20.19	46	25.81	H	-29.1	49.29
499.945	16.43	46	29.57	V	-23.4	39.83
687.532222	33.6	46	12.4	V	-19.9	53.5

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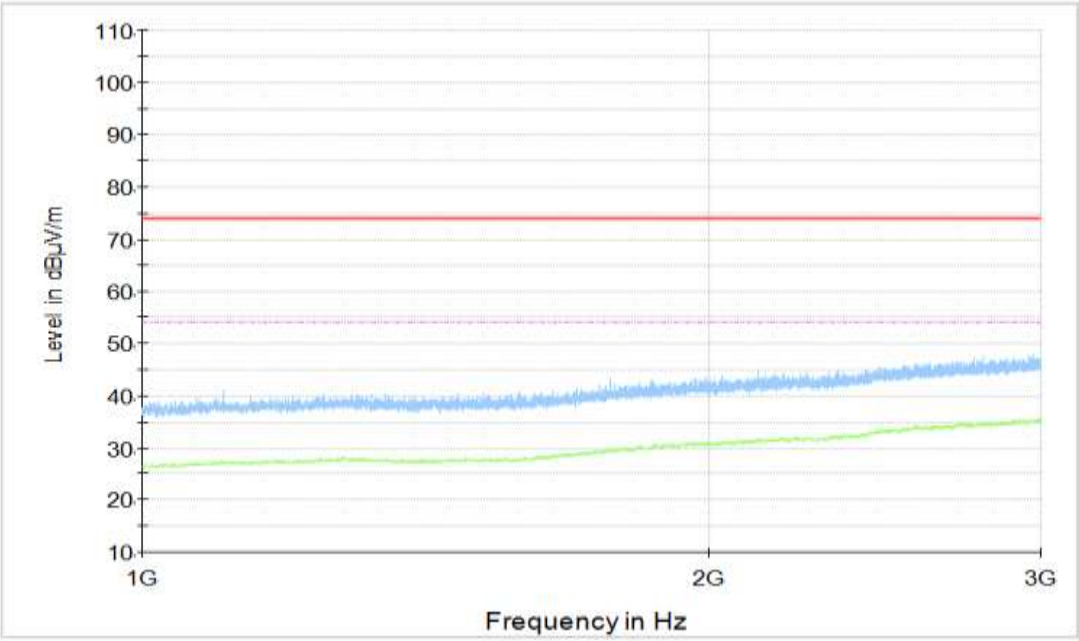

Figure A.42 Radiated Emission (Set.1, Camera Mode , 1GHz to 3GHz)

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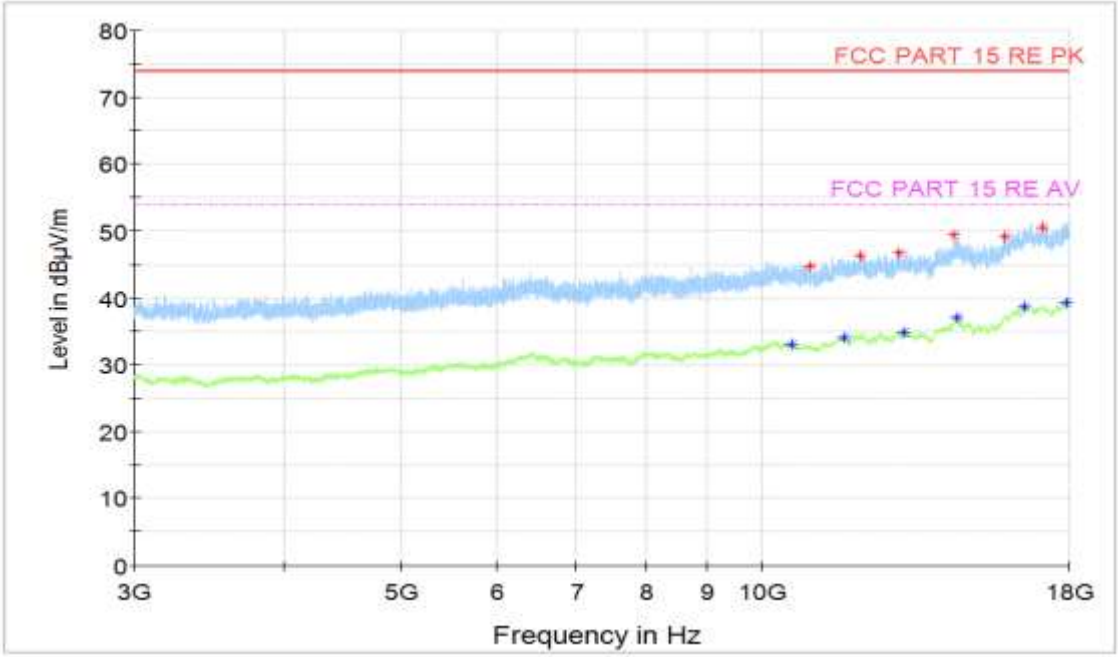

Figure A.43 Radiated Emission (Set.1, Camera Mode, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10970.5	44.81	74	29.19	H	5.2	39.61
12069	46.34	74	27.66	H	7.3	39.04
12989.5	46.74	74	27.26	H	8.3	38.44
14423.5	49.29	74	24.71	V	11	38.29
15918	49.07	74	24.93	H	13.3	35.77
17125.5	50.67	74	23.33	H	15	35.67

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10560	33.08	54	20.92	H	5	28.08
11693	34.04	54	19.96	V	7.1	26.94
13103.5	34.84	54	19.16	V	8.5	26.34
14495.5	37	54	17	V	11.4	25.6
16493	38.74	54	15.26	V	14.7	24.04
17883	39.34	54	14.66	V	16.2	23.14

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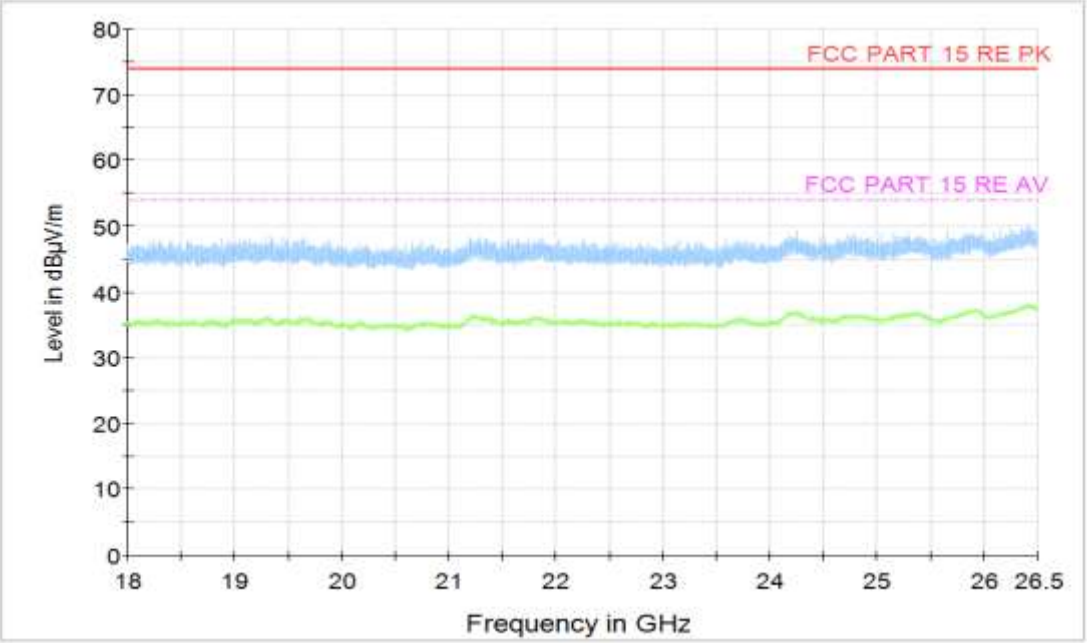

Figure A.44 Radiated Emission (Set.1, Camera Mode , 18GHz to 26.5GHz)

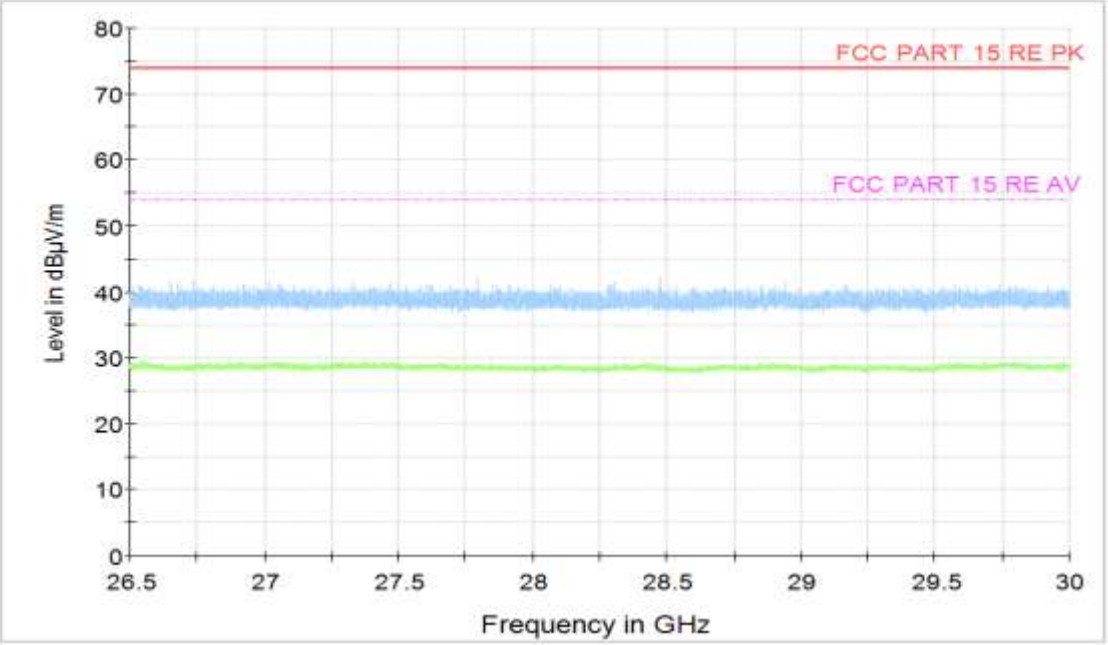

Figure A.45 Radiated Emission (Set.1, Camera Mode, 26.5GHz to 30GHz)

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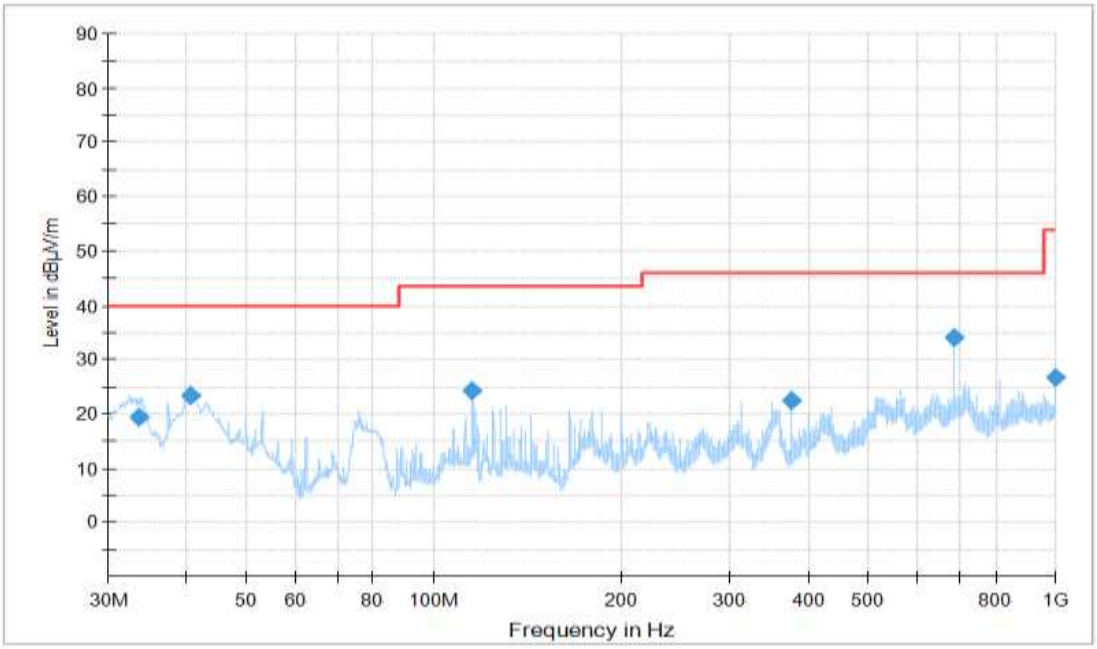

Figure A.46 Radiated Emission (Set.1, Video Player Mode , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
33.633889	19.22	40	20.78	V	-26.3	45.52
40.636111	23.27	40	16.73	V	-29.7	52.97
115.609444	24.22	43.5	19.28	V	-31.6	55.82
375.016667	22.41	46	23.59	H	-26.8	49.21
687.532222	34.09	46	11.91	V	-19.9	53.99
1000	26.73	54	27.27	V	-15.7	42.43

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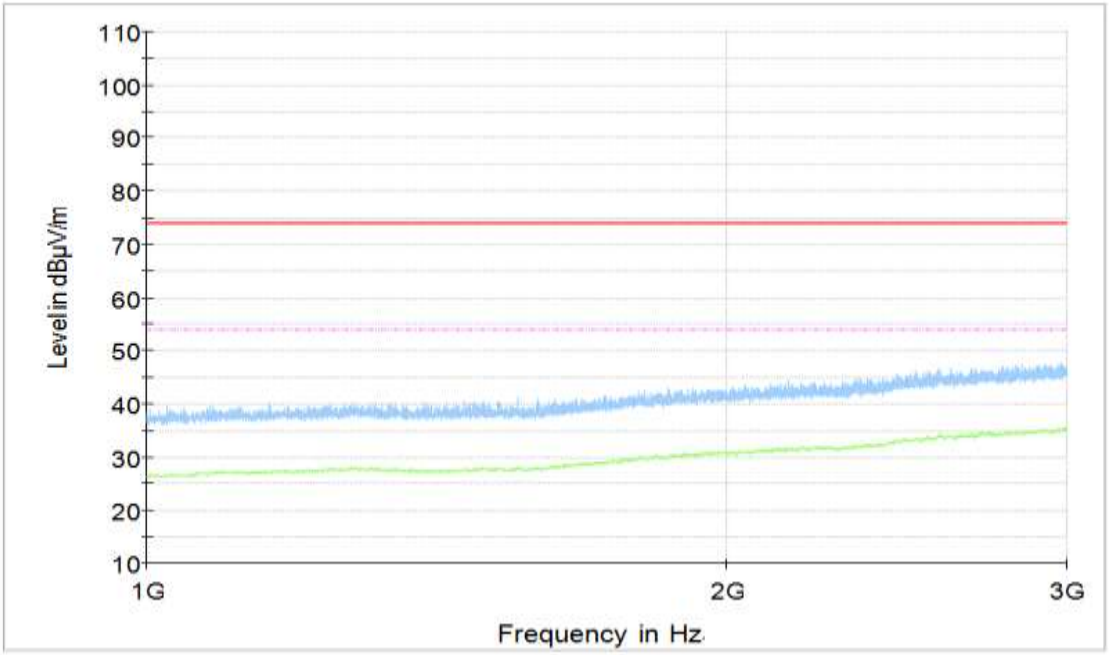

Figure A.47 Radiated Emission (Set.1, Video Player Mode , 1GHz to 3GHz)

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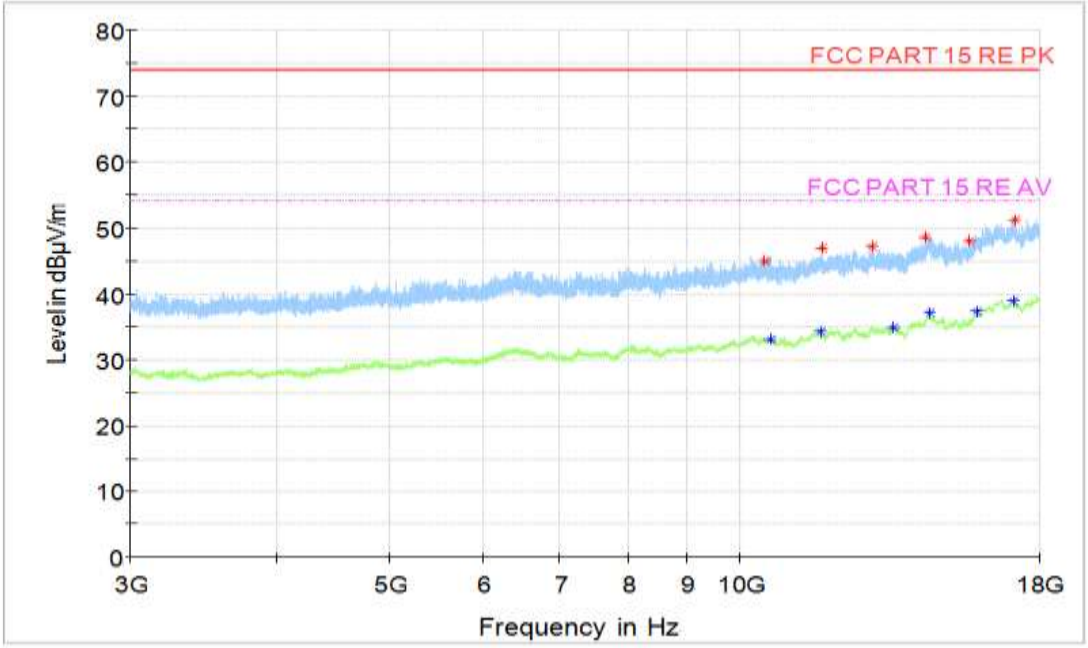

Figure A.48 Radiated Emission (Set.1, Video Player Mode, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10470	44.95	74	29.05	H	5	39.95
11733.5	47.03	74	26.97	V	6.8	40.23
12956	47.14	74	26.86	V	8.5	38.64
14392	48.51	74	25.49	V	10.8	37.71
15683	48.04	74	25.96	V	12.2	35.84
17142.5	51.11	74	22.89	V	15	36.11

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10613.5	33.11	54	20.89	H	4.9	28.21
11702	34.17	54	19.83	V	7	27.17
13522	34.91	54	19.09	H	8.8	26.11
14497	37.02	54	16.98	V	11.4	25.62
15912	37.32	54	16.68	V	13.2	24.12
17129.5	38.91	54	15.09	H	15	23.91

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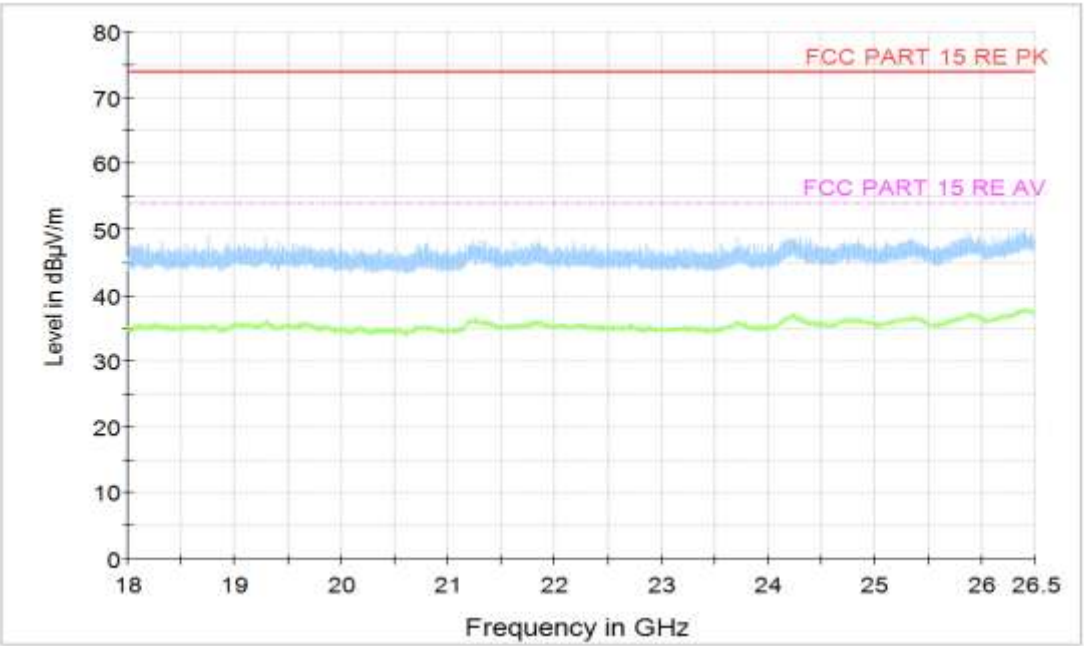

Figure A.49 Radiated Emission (Set.1, Video Player Mode, 18GHz to 26.5GHz)

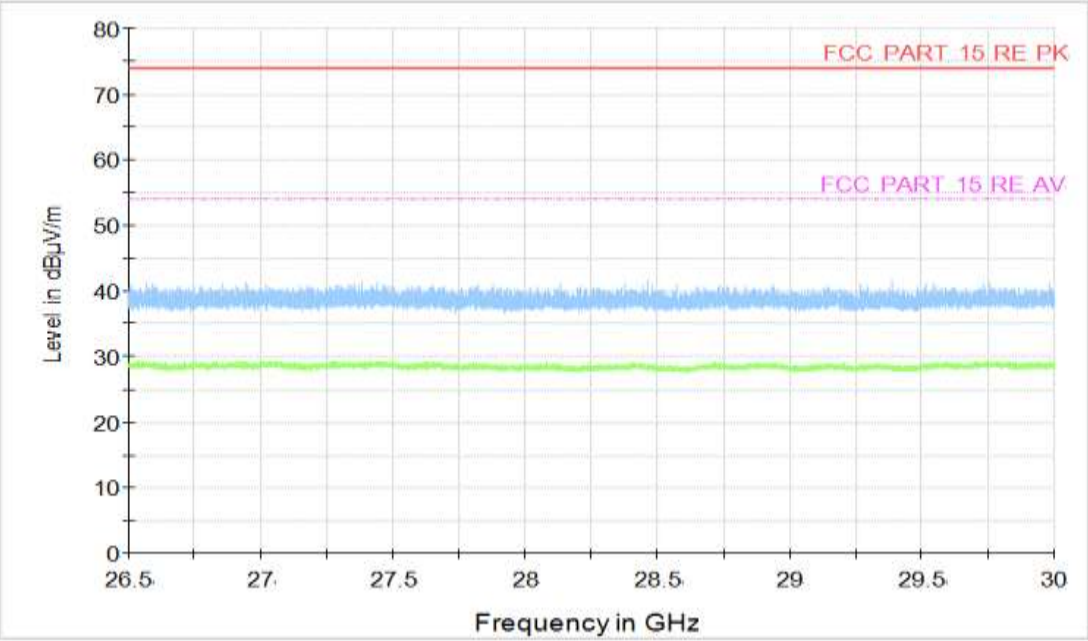

Figure A.50 Radiated Emission (Set.1, Video Player Mode, 26.5GHz to 30GHz)

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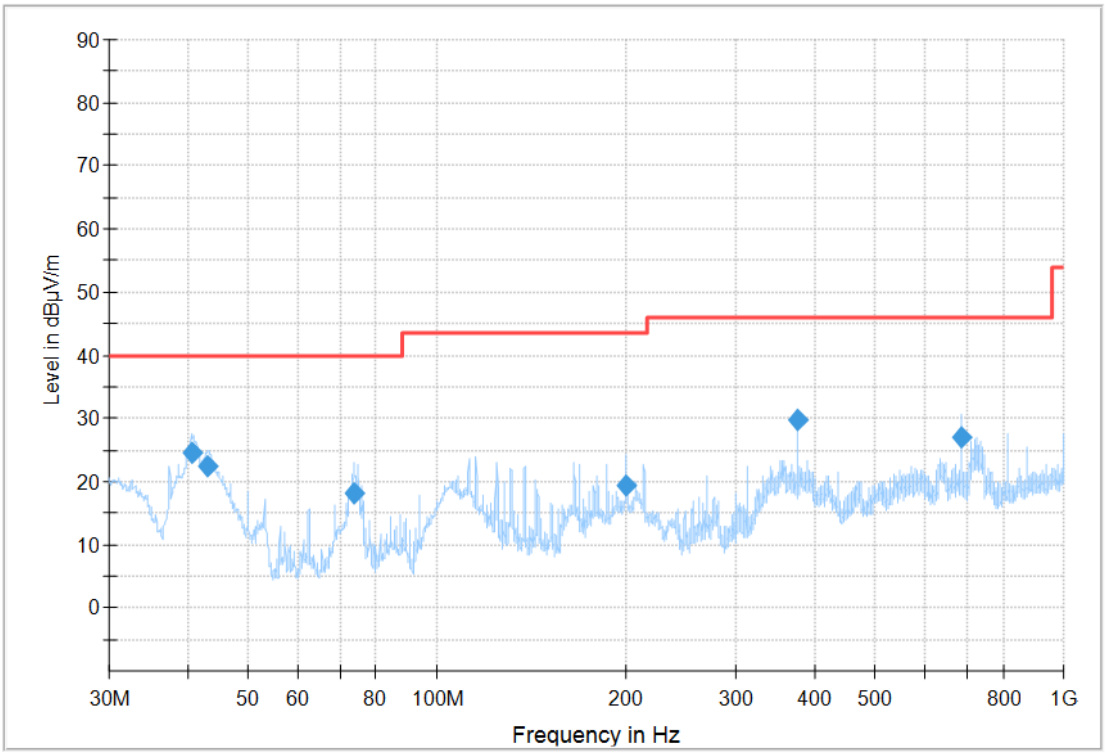

Figure A.51 Radiated Emission (Set.2, Video Player Mode , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
40.636111	24.7	40	15.3	V	-29.7	54.4
42.941111	22.35	40	17.65	V	-31.5	53.85
73.737778	18.22	40	21.78	V	-33.8	52.02
200.310556	19.37	43.5	24.13	V	-33.1	52.47
375.016667	29.67	46	16.33	H	-26.8	56.47
687.532222	27.06	46	18.94	V	-19.9	46.96

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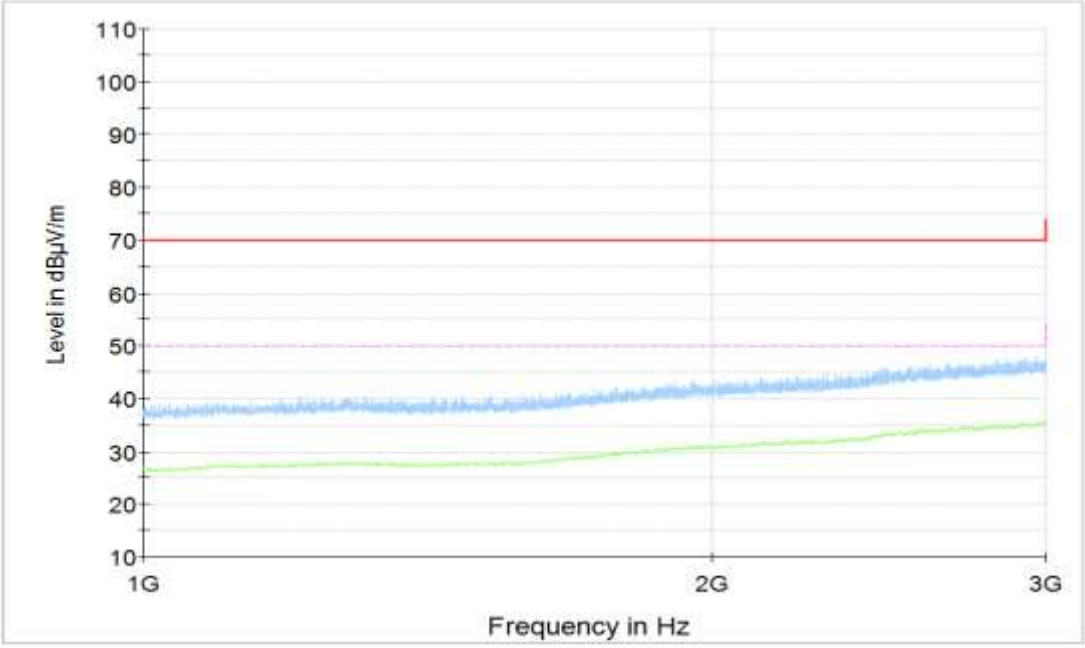

Figure A.52 Radiated Emission (Set.2, Video Player Mode , 1GHz to 3GHz)

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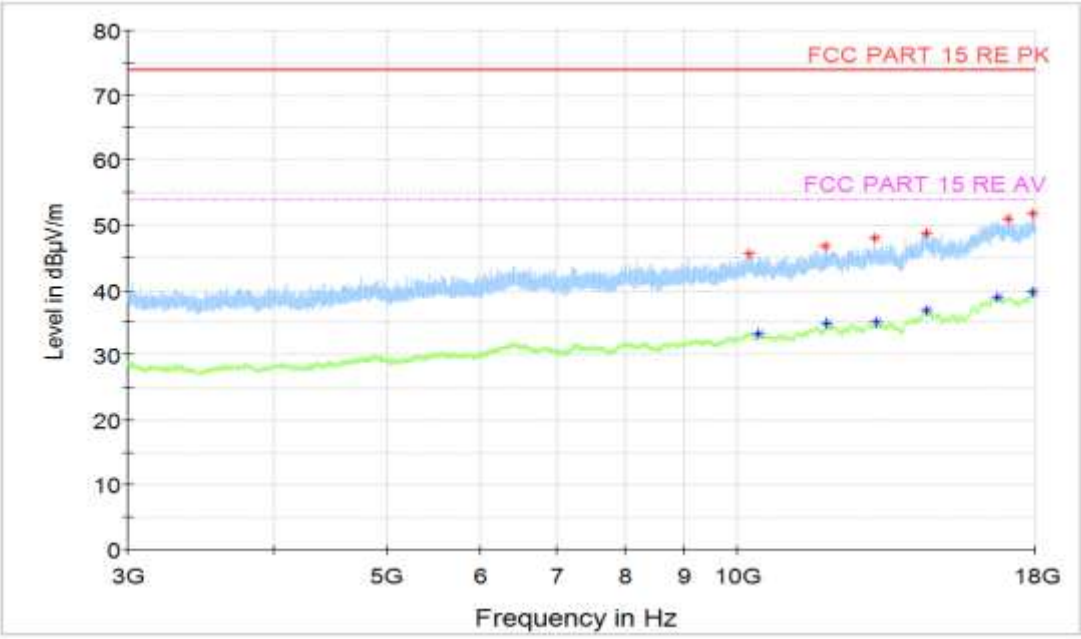

Figure A.53 Radiated Emission (Set.2, Video Player Mode, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10229.5	45.51	74	28.49	H	5.1	40.41
11886.5	46.83	74	27.17	H	6.8	40.03
13107	48.06	74	25.94	H	8.5	39.56
14496.5	48.84	74	25.16	V	11.4	37.44
17075	51.04	74	22.96	H	15	36.04
17879	51.74	74	22.26	V	16.2	35.54

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10425.5	33.3	54	20.7	H	5.1	28.2
11899	34.8	54	19.2	H	7.1	27.7
13152	35.15	54	18.85	H	8.6	26.55
14513.5	36.87	54	17.13	H	11.5	25.37
16699	38.93	54	15.07	V	14.9	24.03
17912.5	39.66	54	14.34	H	16.3	23.36

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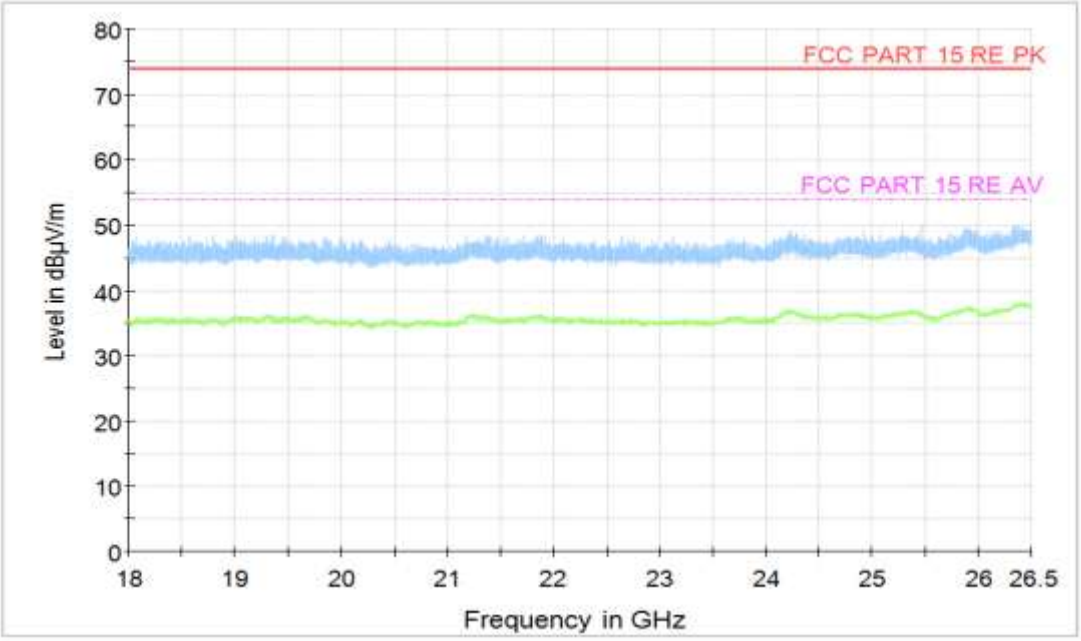

Figure A.54 Radiated Emission (Set.2, Video Player Mode, 18GHz to 26.5GHz)

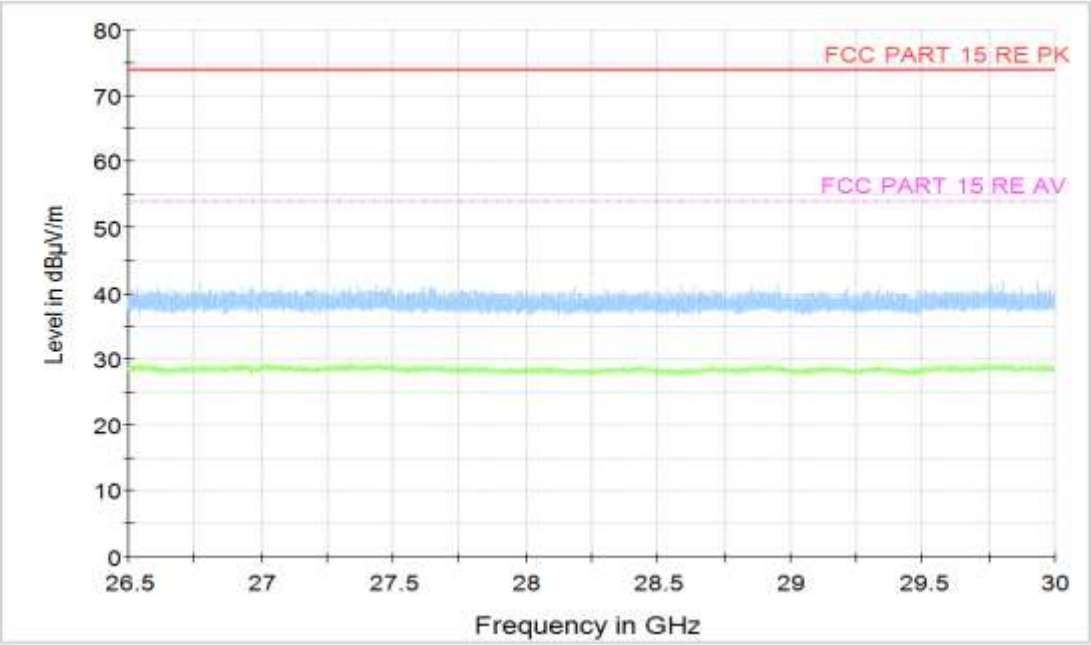

Figure A.55 Radiated Emission (Set.2, Video Player Mode, 26.5GHz to 30GHz)

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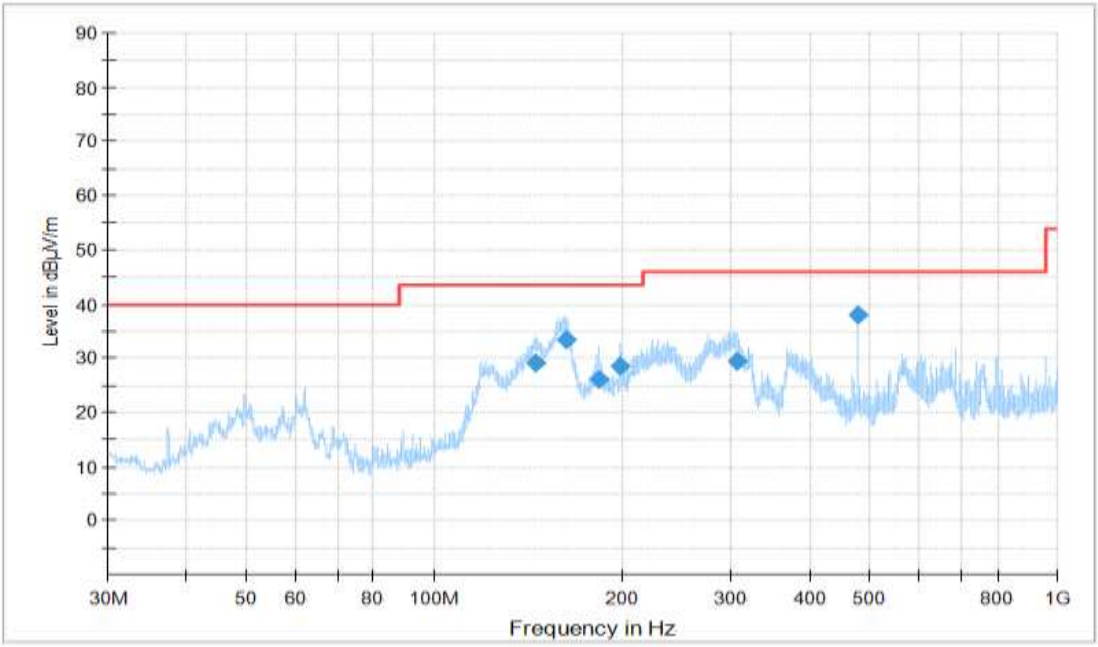

Figure A.56 Radiated Emission (Set.3, Data Transfer Mode: EUT To PC , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
145.842778	29.08	43.5	14.42	V	-33.6	62.68
162.611111	33.3	43.5	10.2	H	-33.2	66.5
184.411667	25.96	43.5	17.54	H	-33.7	59.66
199.055556	28.48	43.5	15.02	H	-33.1	61.58
306.835	29.5	46	16.5	H	-29.2	58.7
479.992222	37.96	46	8.04	H	-23.9	61.86

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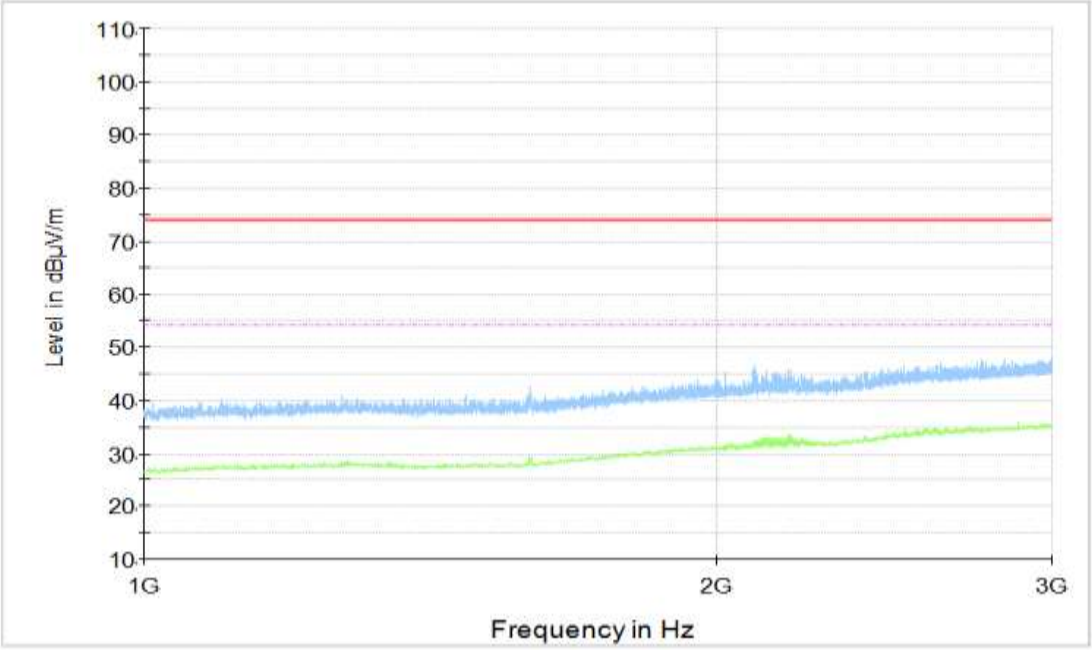

Figure A.57 Radiated Emission (Set.3, Data Transfer Mode: EUT To PC, 1GHz to 3GHz)

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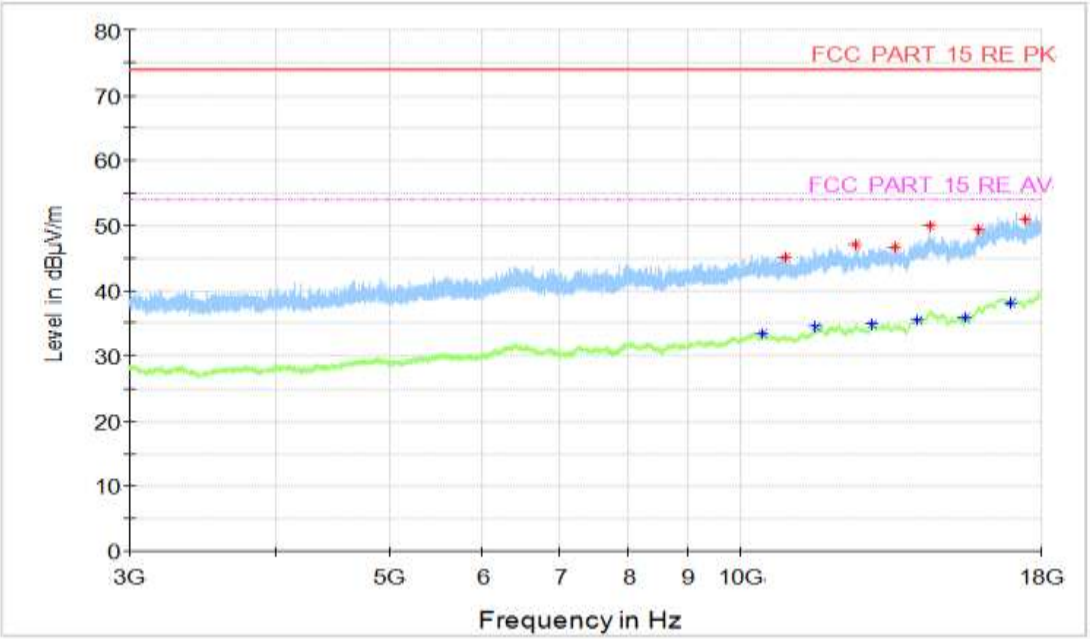

Figure A.58 Radiated Emission (Set.3, Data Transfer Mode: EUT To PC, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10881	45.04	74	28.96	H	5.2	39.84
12481	47.17	74	26.83	V	8	39.17
13502.5	46.83	74	27.17	V	8.7	38.13
14461	49.99	74	24.01	H	11.2	38.79
15903	49.45	74	24.55	V	13.2	36.25
17474	51.07	74	22.93	H	14.8	36.27

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10282.5	33.63	54	20.37	H	5.1	28.53
12106	34.65	54	19.35	V	7.3	27.35
13032	34.61	54	19.39	H	8.2	26.41
14587	36.31	54	17.69	V	11.3	25.01
16511	38.62	54	15.38	H	14.8	23.82
17914	39.32	54	14.68	H	16.3	23.02

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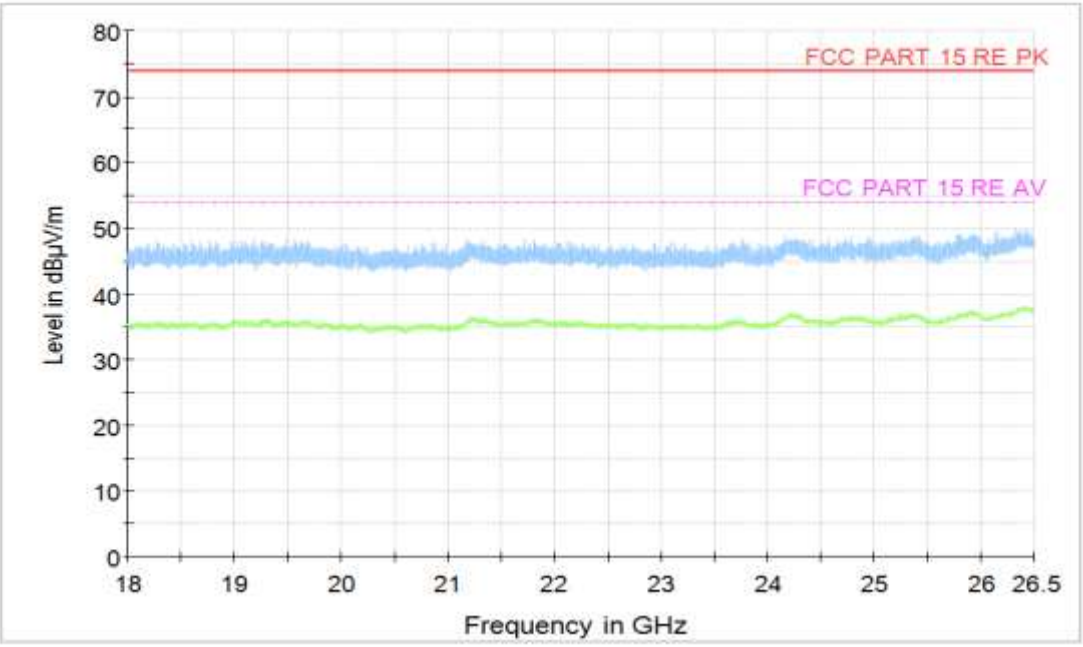

Figure A.59 Radiated Emission (Set.3, Data Transfer Mode: EUT To PC, 18GHz to 26.5GHz)

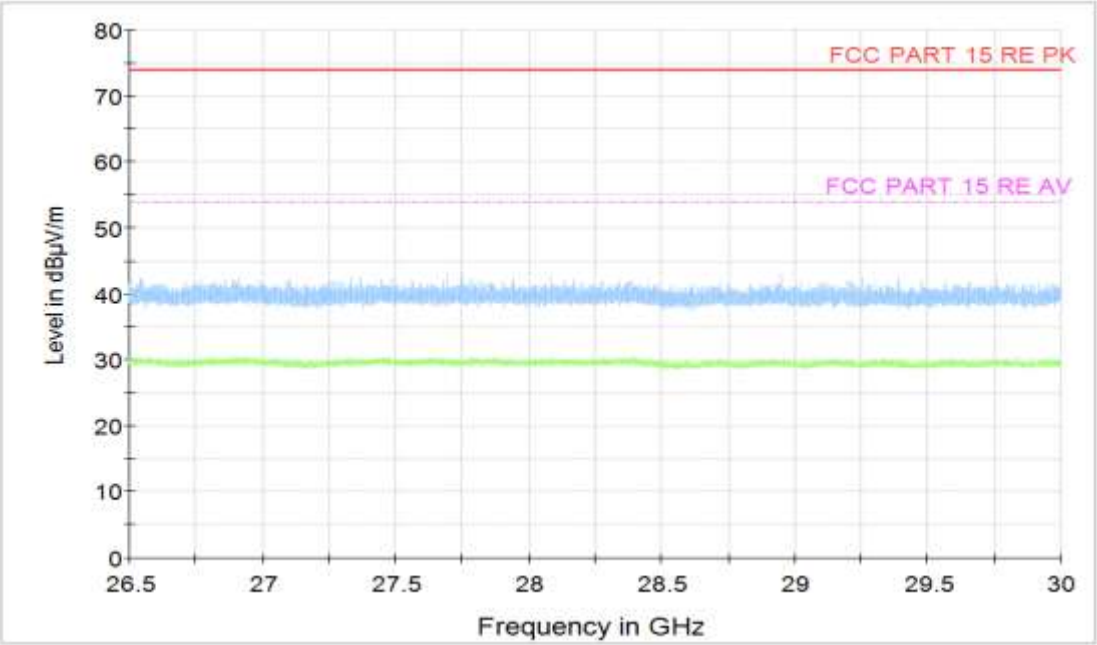

Figure A.60 Radiated Emission (Set.3, Data Transfer Mode: EUT To PC, 26.5GHz to 30GHz)

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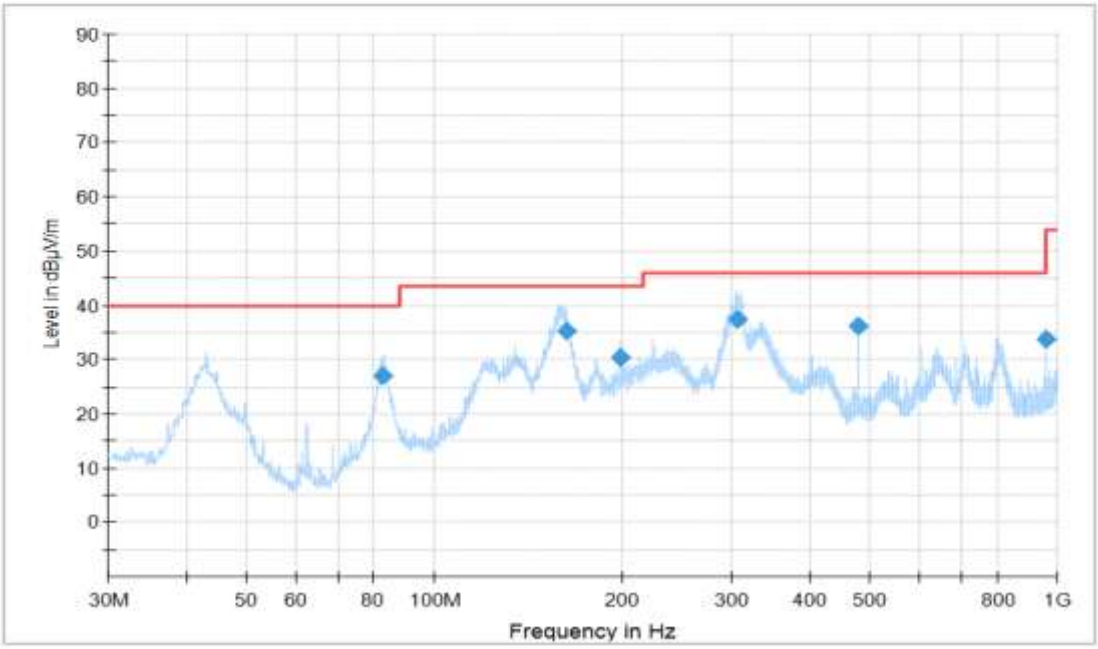

Figure A.61 Radiated Emission (Set.3, Data Transfer Mode: PC To EUT , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
82.888333	27.04	40	12.96	V	-33.5	60.54
162.626667	35.21	43.5	8.29	H	-33.2	68.41
199.257222	30.43	43.5	13.07	H	-33.1	63.53
305.609444	37.26	46	8.74	H	-29.2	66.46
480.006111	36.12	46	9.88	H	-23.9	60.02
959.994444	33.74	46	12.26	V	-16.3	50.04

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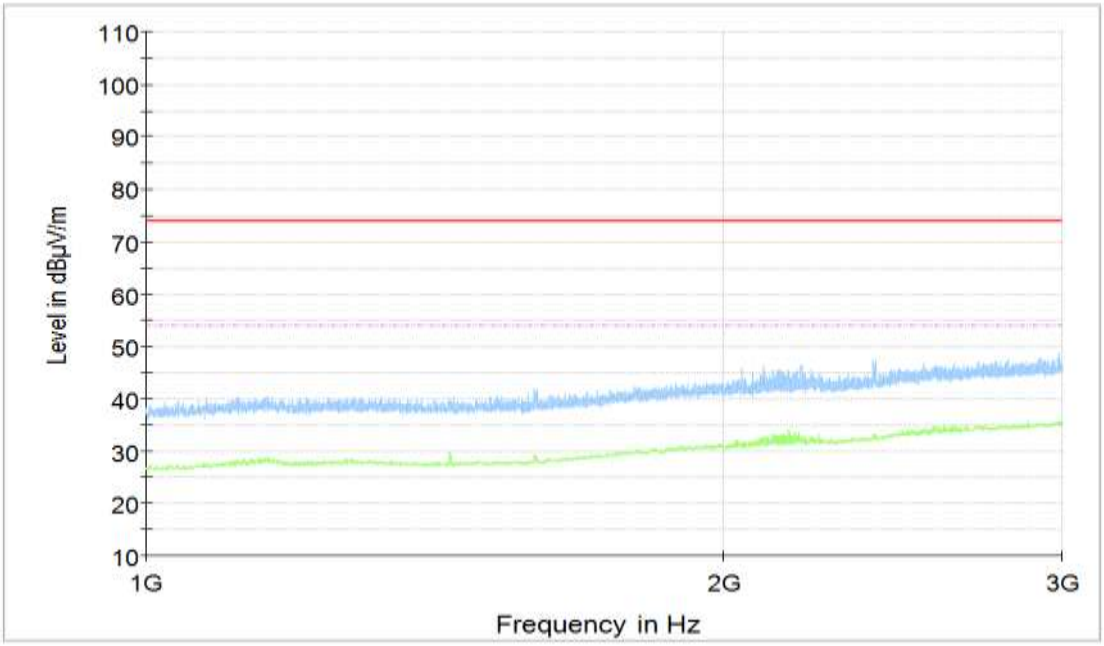

Figure A.62 Radiated Emission (Set.3, Data Transfer Mode: PC To EUT, 1GHz to 3GHz)

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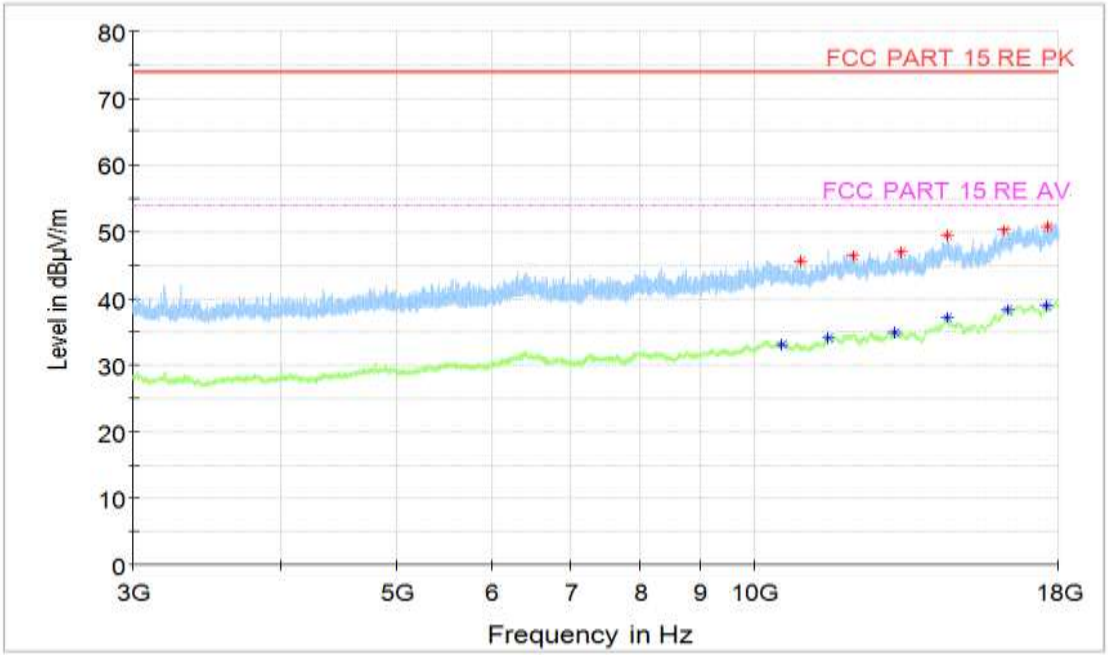

Figure A.63 Radiated Emission (Set.3, Data Transfer Mode: PC To EUT, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10934	45.44	74	28.56	H	5.1	40.34
12083	46.33	74	27.67	V	7.4	38.93
13275.5	46.92	74	27.08	V	8.8	38.12
14498.5	49.28	74	24.72	V	11.4	37.88
16205	50.08	74	23.92	H	14.4	35.68
17614.5	50.74	74	23.26	H	15.6	35.14

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10525.5	33.12	54	20.88	V	5	28.12
11539.5	34.05	54	19.95	H	6.3	27.75
13121.5	34.77	54	19.23	V	8.5	26.27
14500.5	36.99	54	17.01	H	11.5	25.49
16314.5	38.19	54	15.81	V	14.3	23.89
17565.5	38.85	54	15.15	H	15.3	23.55

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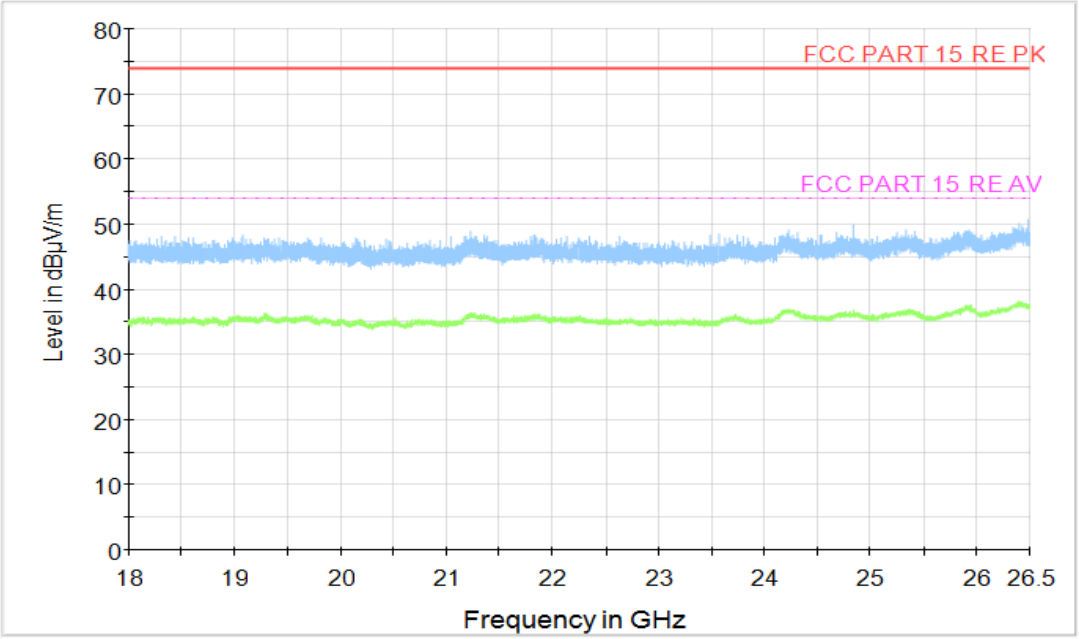

Figure A.64 Radiated Emission (Set.3, Data Transfer Mode: PC To EUT, 18GHz to 26.5GHz)

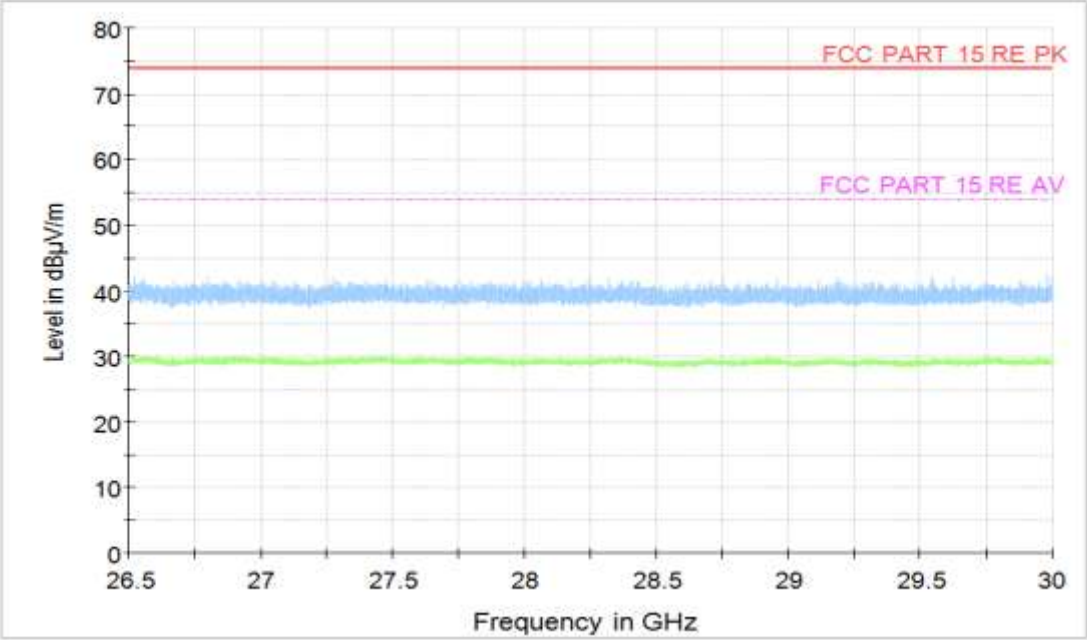

Figure A.65 Radiated Emission (Set.3, Data Transfer Mode: PC To EUT, 26.5GHz to 30GHz)

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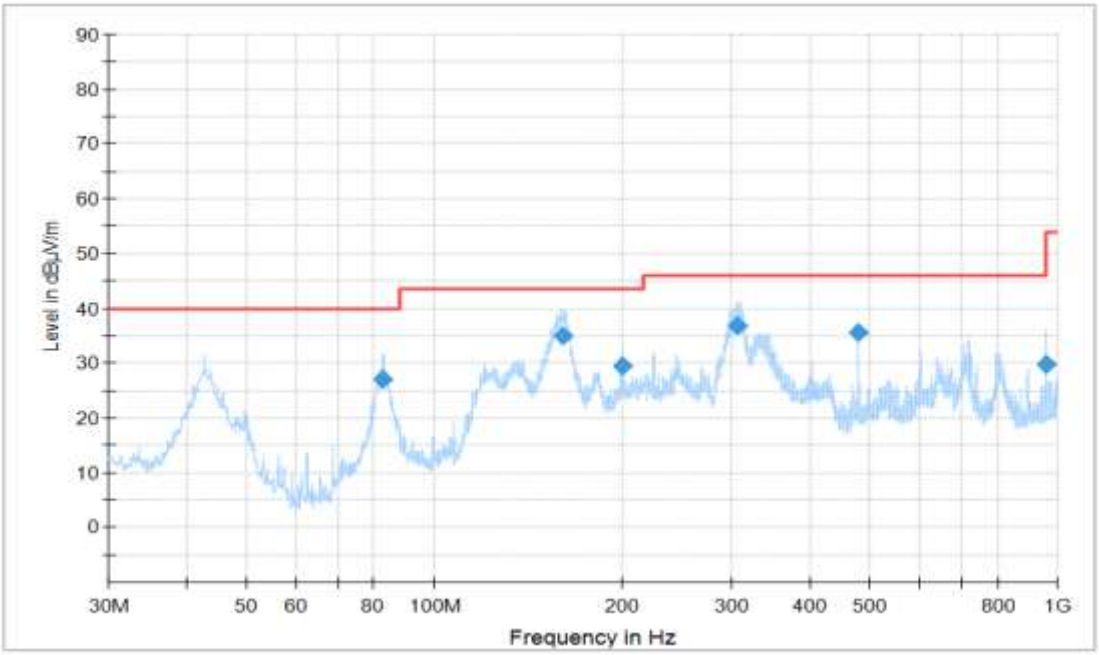

Figure A.66 Radiated Emission (Set.3, Data Transfer Mode: PC To TF Card , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
82.735556	27.14	40	12.86	V	-33.5	60.64
160.566667	34.94	43.5	8.56	H	-33.5	68.44
200.053333	29.37	43.5	14.13	H	-33.1	62.47
305.611111	36.89	46	9.11	H	-29.2	66.09
479.992222	35.52	46	10.48	H	-23.9	59.42
959.994444	29.75	46	16.25	H	-16.3	46.05

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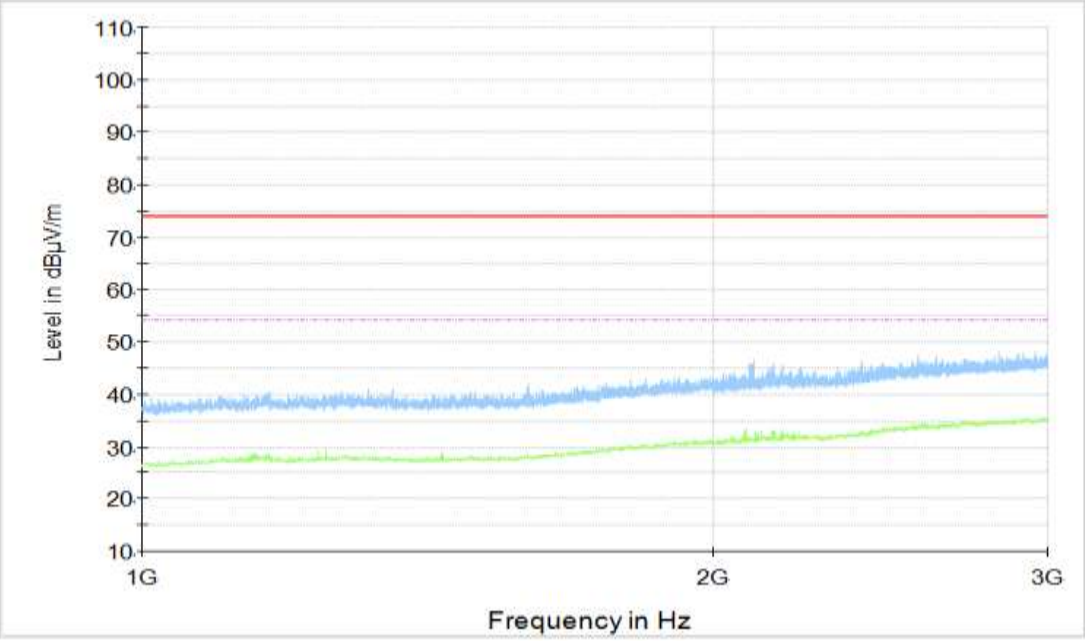

Figure A.67 Radiated Emission (Set.3, Data Transfer Mode: PC To TF Card, 1GHz to 3GHz)

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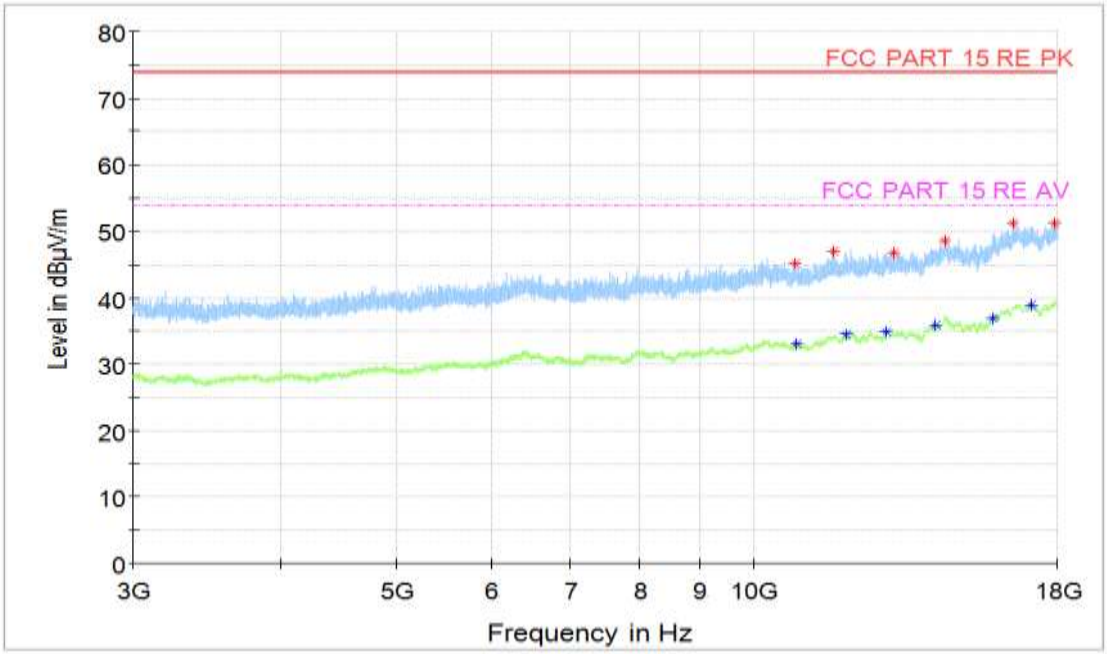

Figure A.68 Radiated Emission (Set.3, Data Transfer Mode: PC To EUT, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10832.5	45.15	74	28.85	V	5.3	39.85
11668	46.92	74	27.08	V	7	39.92
13123	46.72	74	27.28	H	8.5	38.22
14475.5	48.54	74	25.46	V	11.3	37.24
16521	51.2	74	22.8	H	14.8	36.4
17918.5	51.11	74	22.89	V	16.2	34.91

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10856	33.15	54	20.85	H	5.2	27.95
11949	34.54	54	19.46	H	7	27.54
12933	34.77	54	19.23	V	8.6	26.17
14208	35.94	54	18.06	V	10.9	25.04
15858.5	36.95	54	17.05	H	13	23.95
17122.5	38.88	54	15.12	H	15	23.88

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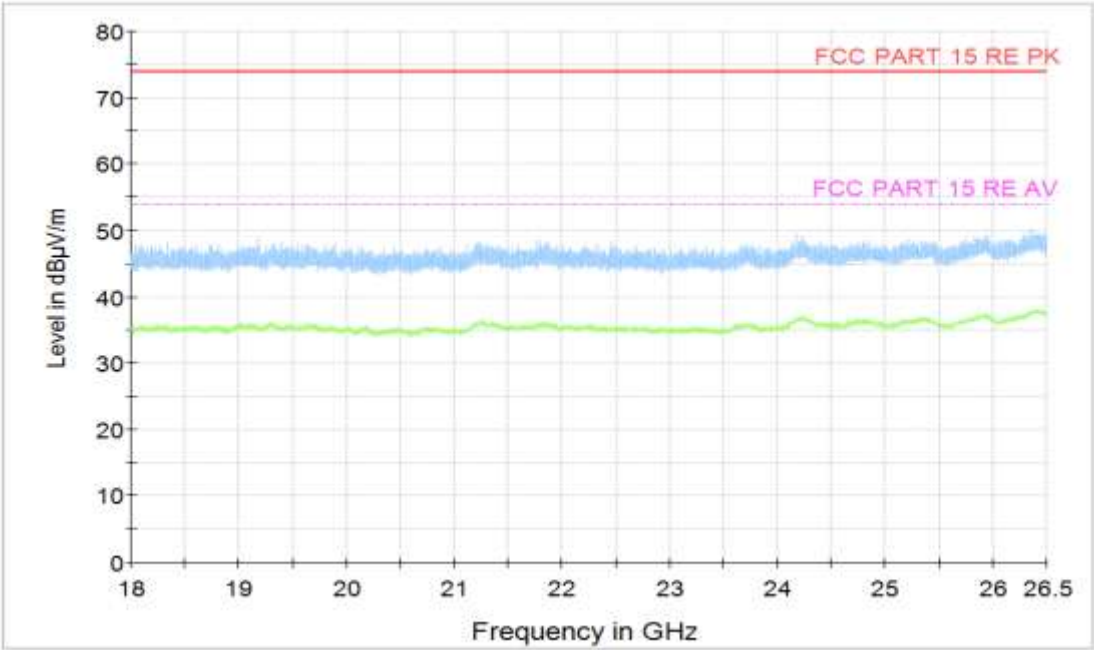

Figure A.69 Radiated Emission (Set.3, Data Transfer Mode: PC To TF Card, 18GHz to 26.5GHz)

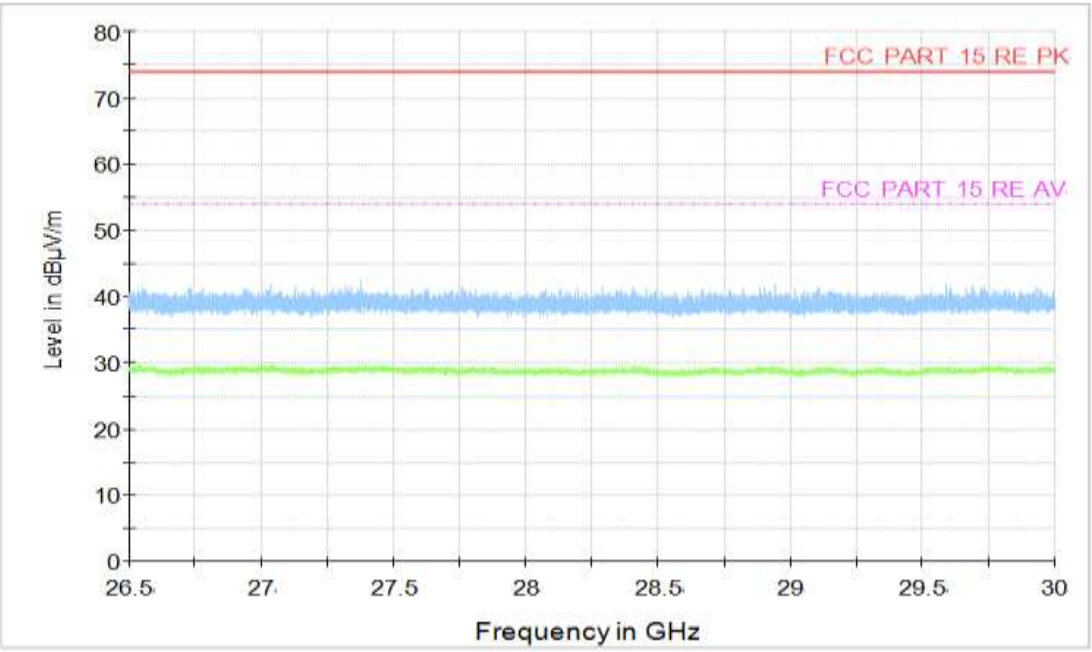

Figure A.70 Radiated Emission (Set.3, Data Transfer Mode: PC To TF Card, 26.5GHz to 30GHz)

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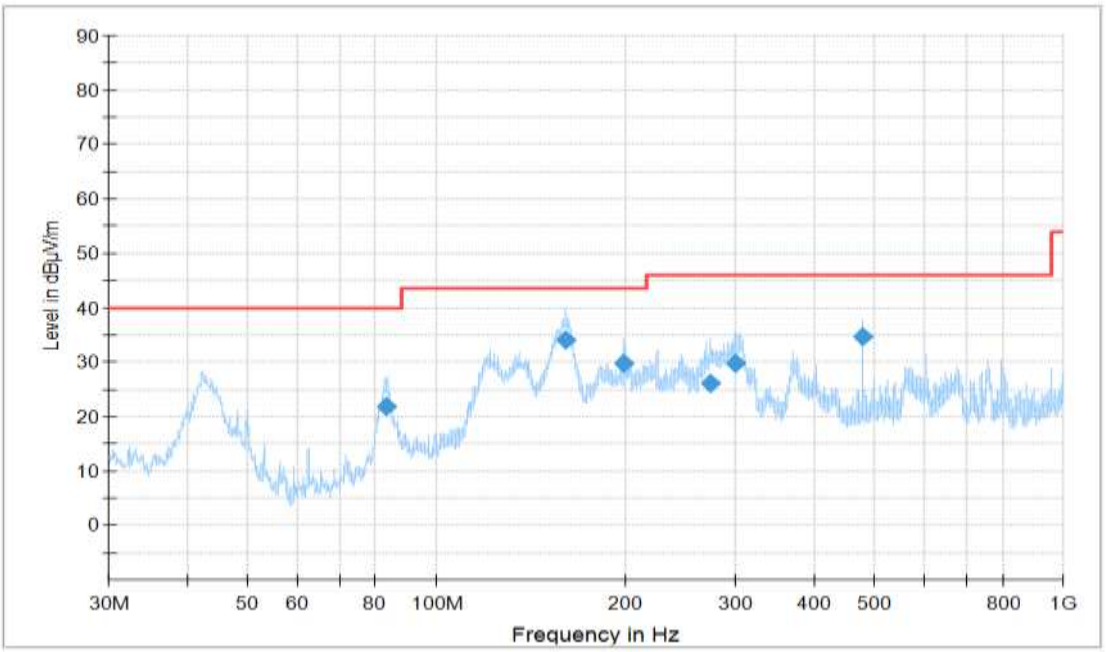

Figure A.71 Radiated Emission (Set.3, Data Transfer Mode: TF Card To PC , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
83.427222	21.78	40	18.22	V	-33.5	55.28
160.645	33.97	43.5	9.53	H	-33.5	67.47
199.325	29.86	43.5	13.64	H	-33.1	62.96
273.303889	26.19	46	19.81	H	-30.6	56.79
300.783889	29.83	46	16.17	H	-29.3	59.13
479.992222	34.78	46	11.22	H	-23.9	58.68

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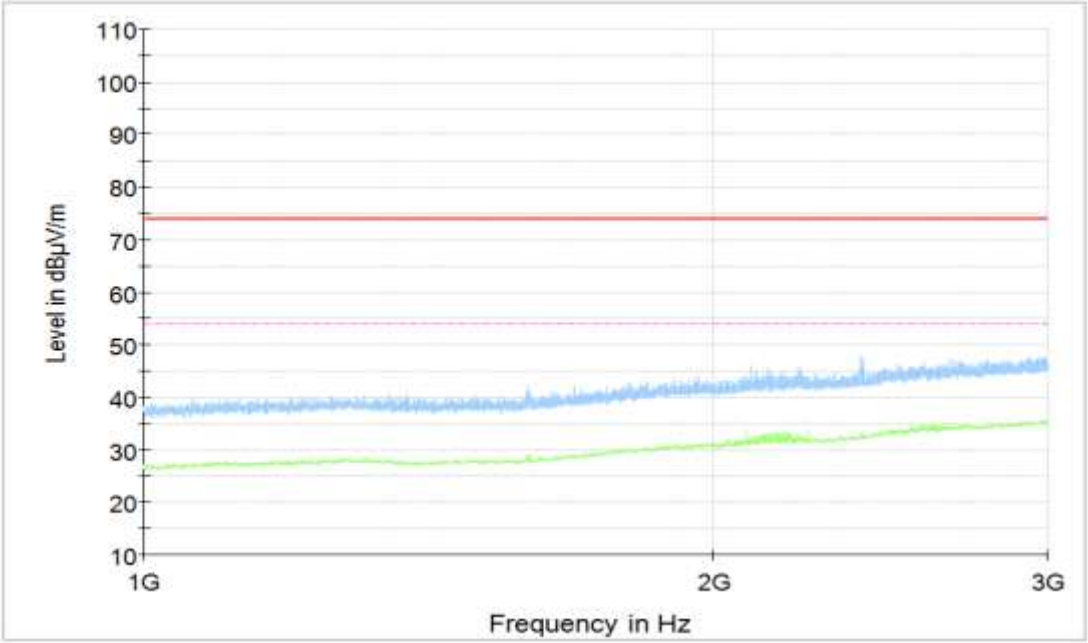

Figure A.72 Radiated Emission (Set.3, Data Transfer Mode: TF Card To PC, 1GHz to 3GHz)

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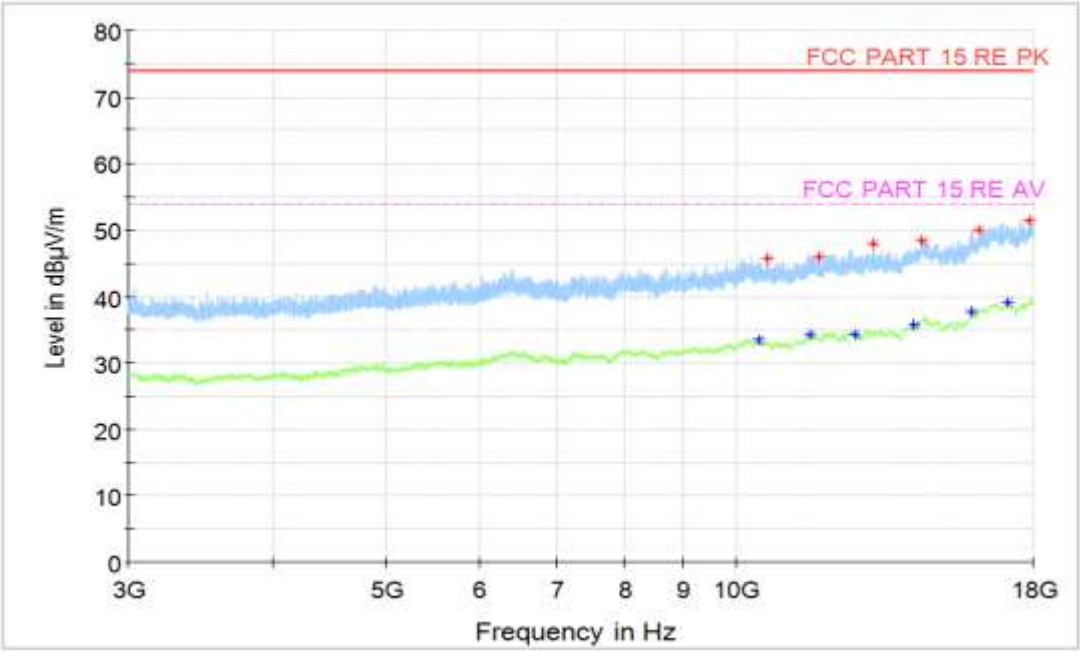

Figure A.73 Radiated Emission (Set.3, Data Transfer Mode: TF Card To PC, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10622.5	45.77	74	28.23	H	4.9	40.87
11775.5	45.99	74	28.01	V	6.8	39.19
13118.5	47.95	74	26.05	H	8.5	39.45
14413	48.29	74	25.71	H	11	37.29
16169	49.89	74	24.11	V	14.3	35.59
17853.5	51.29	74	22.71	H	16.1	35.19

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10433	33.4	54	20.6	H	5.1	28.3
11547	34.35	54	19.65	V	6.4	27.95
12664	34.29	54	19.72	H	7.6	26.69
14215	35.71	54	18.29	H	10.9	24.81
15911.5	37.71	54	16.29	H	13.2	24.51
17127.5	39.05	54	14.95	H	15	24.05

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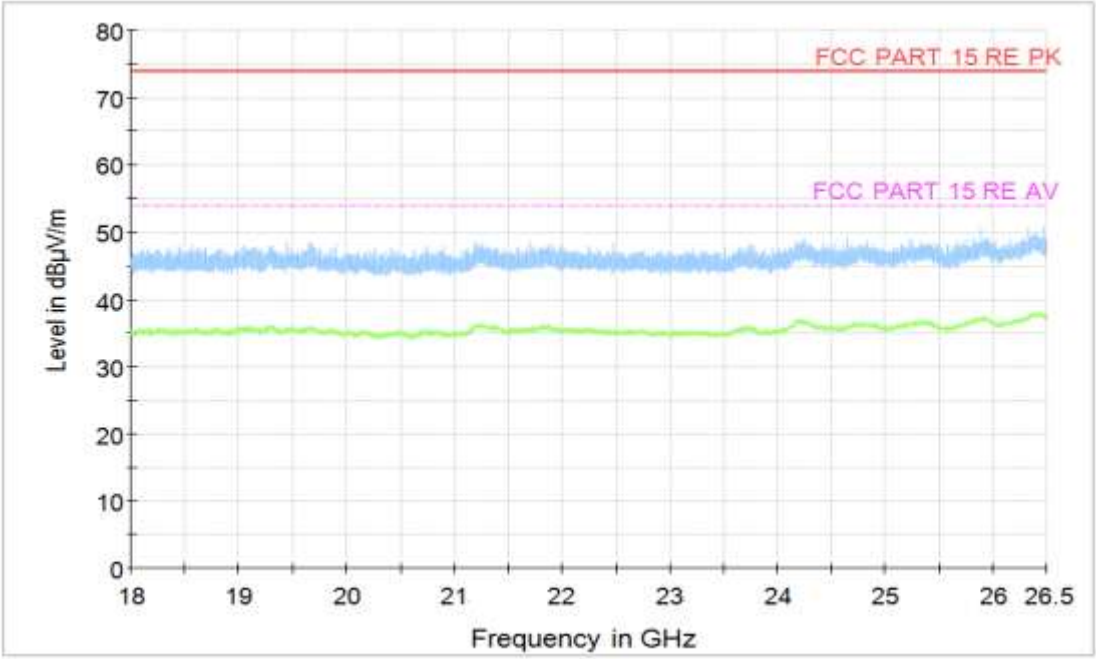

Figure A.74 Radiated Emission (Set.3, Data Transfer Mode: TF Card To PC, 18GHz to 26.5GHz)

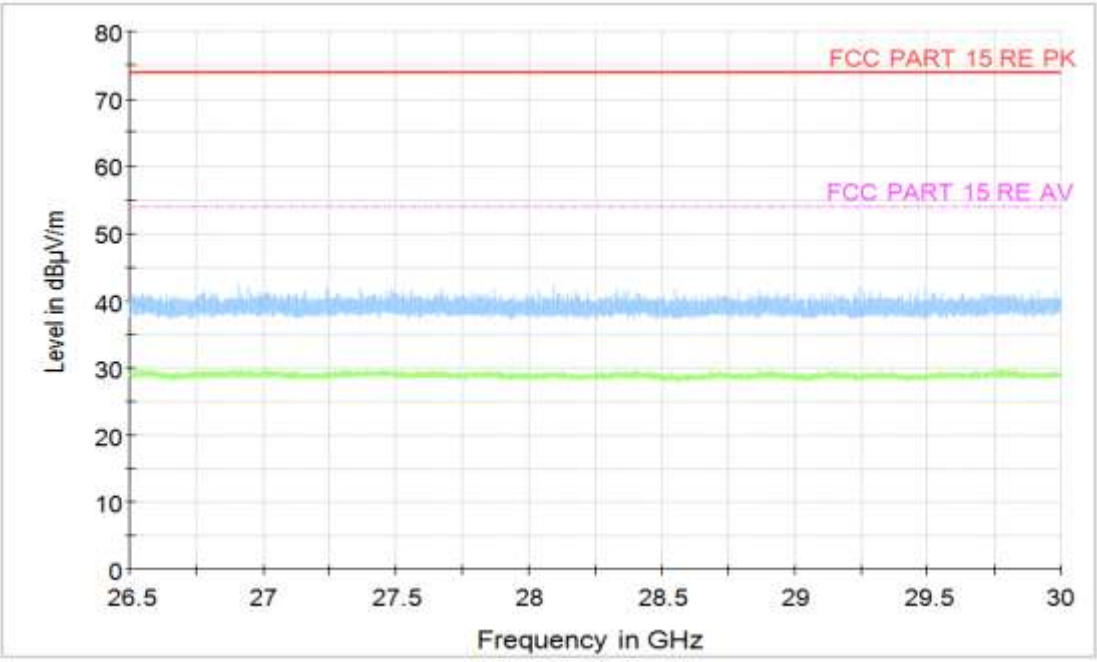

Figure A.75 Radiated Emission (Set.3, Data Transfer Mode: TF Card To PC, 26.5GHz to 30GHz)

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B.2 Conducted Emission (§15.107(a))

Reference

FCC: CFR Part 15.107(a)

IC: ICES-003 section 6.1.

B.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.

B.2.2 EUT Operating Mode:

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

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

B.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		

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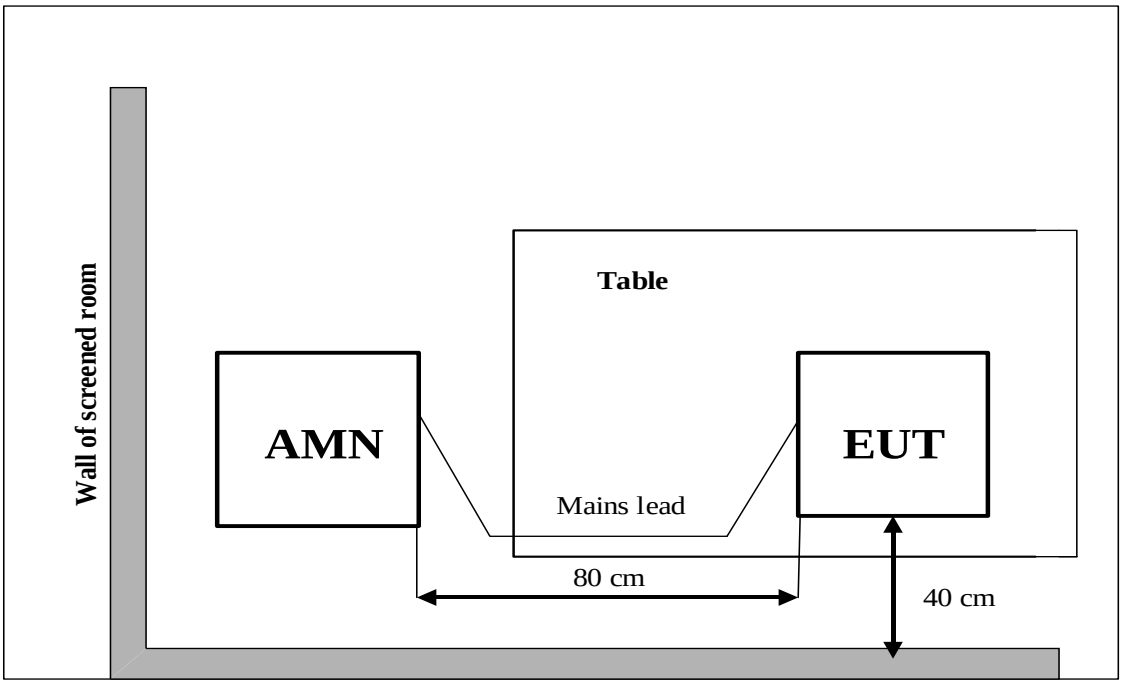
B.2.4Test set-up:



B.2.5 Test Condition in charging mode

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

RBW	Sweep Time(s)
9kHz	1

B.2.6 Measurement Results

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

Where

Corr: PathLoss + Voltage Division Factor

PMea: Measurement result on receiver.

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Camera Mode

AC Input Port/ Voltage: 120V/60Hz

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

Video Player Mode

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.2	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Camera Mode

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.2	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.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.				

Data Transfer Mode: EUT To PC

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.3	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.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.				

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Data Transfer Mode: PC To EUT

AC Input Port/ Voltage: 120V/60Hz

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

Data Transfer Mode: PC To TF Card

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.3	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.6	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Data Transfer Mode: TF Card To PC

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.3	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.7	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Camera Mode

AC Input Port/ Voltage: 240V/60Hz

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

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Video Player Mode

AC Input Port/ Voltage: 240V/60Hz

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

Camera Mode

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.2	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.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.				

Data Transfer Mode: EUT To PC

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.3	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.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.				

Data Transfer Mode: PC To EUT

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.3	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.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.				

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Data Transfer Mode: PC To TF Card

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.3	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.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.				

Data Transfer Mode: TF Card To PC

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.3	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.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.				

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AC Input Port/ Voltage: 120V/60Hz

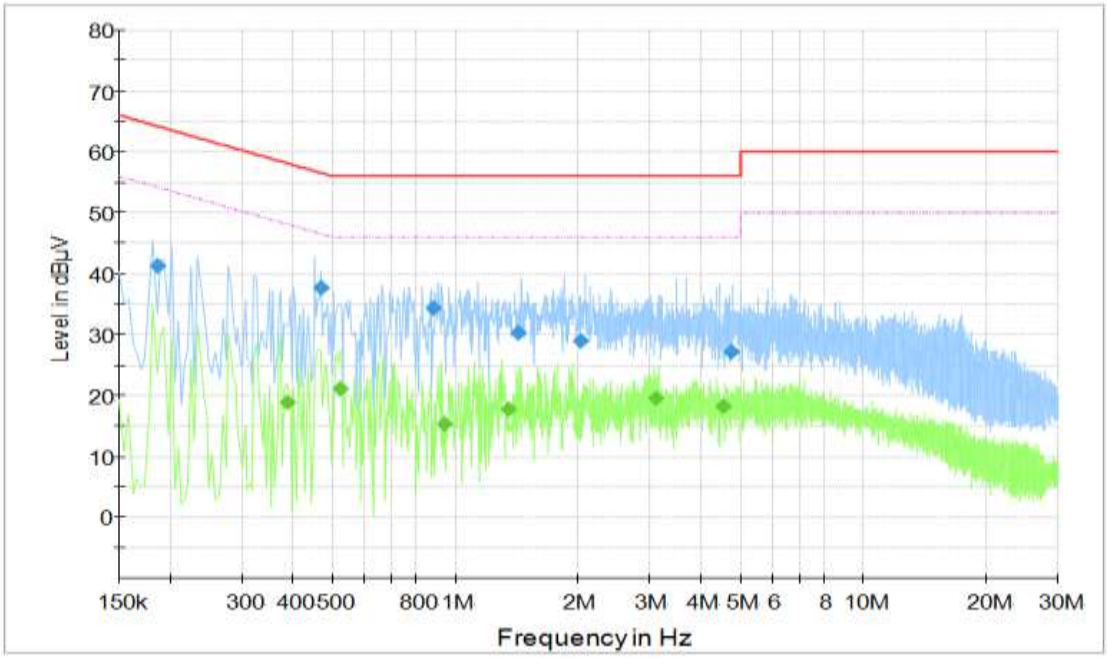

Figure B.1 Conducted Emission(Set.1, Camera Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.186	41.34	64.21	22.88	N	9.6	31.74
0.468	37.67	56.55	18.88	L1	9.6	28.07
0.884	34.27	56	21.73	L1	9.7	24.57
1.42	30.2	56	25.8	L1	9.7	20.5
2.024	29.03	56	26.97	L1	9.7	19.33
4.752	27.23	56	28.77	L1	9.7	17.53

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.388	18.98	48.11	29.13	N	9.6	9.38
0.524	21.23	46	24.77	N	9.6	11.63
0.936	15.4	46	30.6	L1	9.7	5.7
1.352	17.84	46	28.16	N	9.7	8.14
3.096	19.52	46	26.48	N	9.7	9.82
4.528	18.3	46	27.7	N	9.7	8.6

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AC Input Port/ Voltage: 120V/60Hz

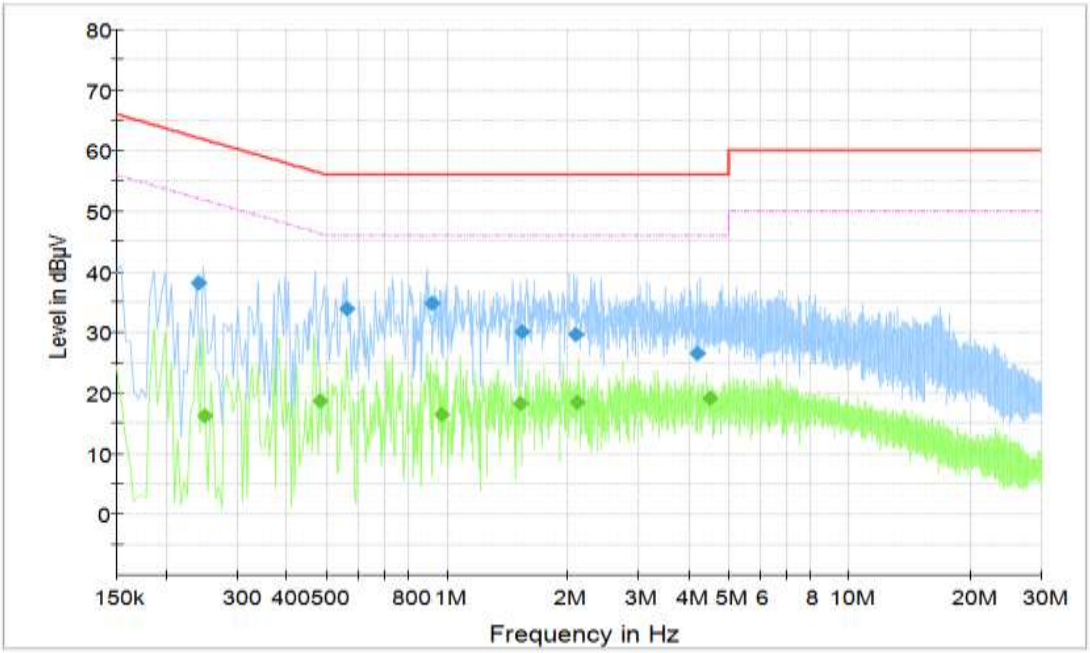

Figure B.2 Conducted Emission(Set.1, Video Player Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.24	38.04	62.1	24.06	L1	9.6	28.44
0.56	33.82	56	22.18	L1	9.6	24.22
0.912	34.78	56	21.22	L1	9.7	25.08
1.532	30.16	56	25.84	L1	9.7	20.46
2.092	29.54	56	26.46	L1	9.7	19.84
4.168	26.54	56	29.46	L1	9.7	16.84

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.248	16.25	51.82	35.58	L1	9.6	6.65
0.48	18.76	46.34	27.57	L1	9.6	9.16
0.964	16.47	46	29.53	N	9.7	6.77
1.52	18.1	46	27.9	N	9.7	8.4
2.096	18.44	46	27.56	N	9.7	8.74
4.48	19.1	46	26.9	N	9.7	9.4

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AC Input Port/ Voltage: 120V/60Hz

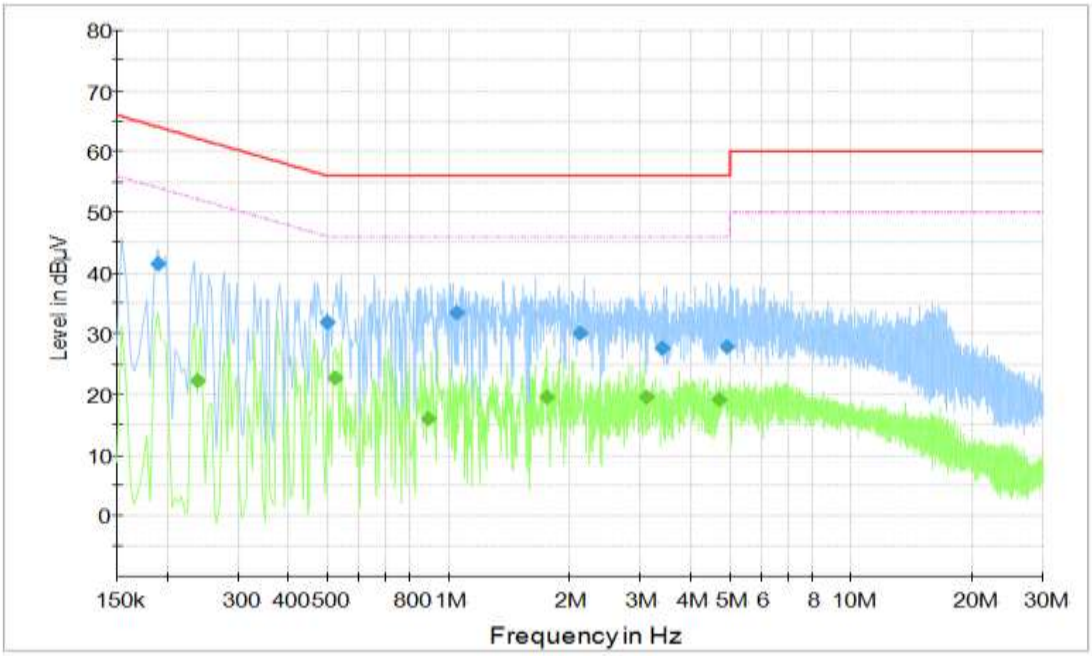

Figure B.3 Conducted Emission(Set.2, Camera Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.19	41.47	64.04	22.57	L1	9.6	31.87
0.5	31.87	56	24.13	L1	9.6	22.27
1.044	33.38	56	22.62	L1	9.7	23.68
2.124	30	56	26	L1	9.7	20.3
3.408	27.65	56	28.35	L1	9.7	17.95
4.908	27.88	56	28.12	L1	9.7	18.18

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.238	22.32	52.17	29.85	L1	9.6	12.72
0.524	22.66	46	23.34	N	9.6	13.06
0.892	15.88	46	30.12	L1	9.7	6.18
1.76	19.62	46	26.38	N	9.7	9.92
3.088	19.6	46	26.4	N	9.7	9.9
4.692	19.13	46	26.87	N	9.7	9.43

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AC Input Port/ Voltage: 120V/60Hz

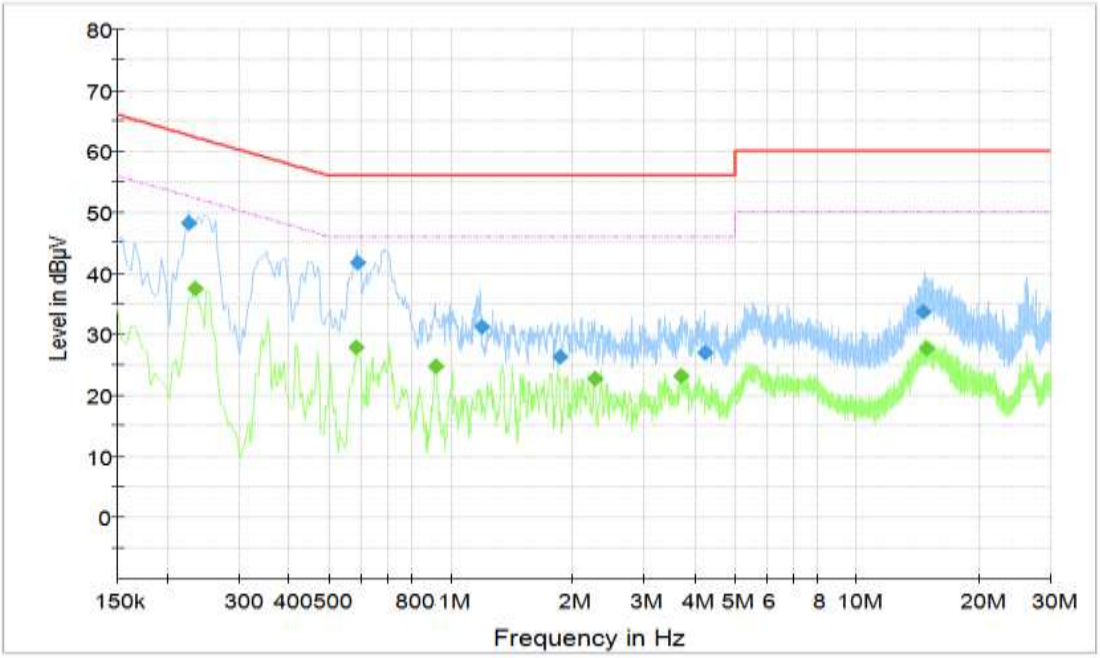

Figure B.4 Conducted Emission(Set.3, Data Transfer Mode: EUT To PC)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.226	48.12	62.6	14.48	L1	9.6	38.52
0.588	41.73	56	14.27	L1	9.6	32.13
1.188	31.16	56	24.84	L1	9.7	21.46
1.86	26.2	56	29.8	N	9.7	16.5
4.2	26.89	56	29.11	L1	9.7	17.19
14.572	33.72	60	26.28	N	9.8	23.92

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.234	37.55	52.31	14.75	L1	9.6	27.95
0.584	27.83	46	18.17	L1	9.6	18.23
0.916	24.66	46	21.34	N	9.7	14.96
2.26	22.72	46	23.28	N	9.7	13.02
3.684	23.07	46	22.93	L1	9.7	13.37
14.76	27.68	50	22.32	N	9.8	17.88

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AC Input Port/ Voltage: 120V/60Hz

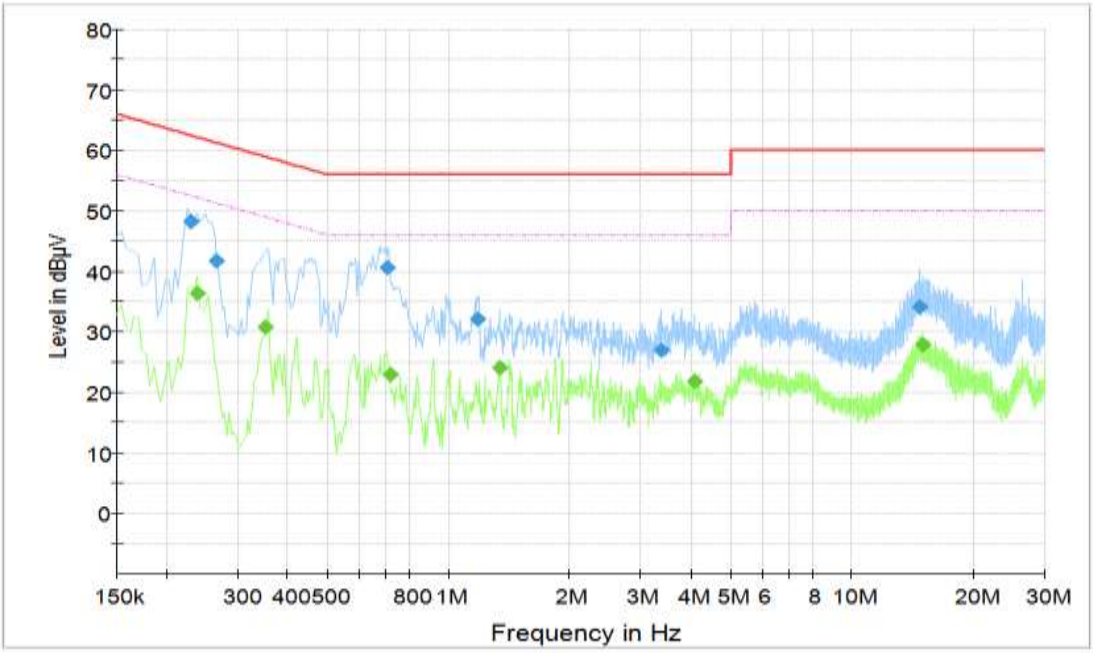

Figure B.5 Conducted Emission(Set.3, Data Transfer Mode: PC To EUT)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.23	48.15	62.45	14.3	L1	9.6	38.55
0.264	41.74	61.31	19.56	L1	9.6	32.14
0.704	40.52	56	15.48	L1	9.6	30.92
1.18	32.18	56	23.82	L1	9.7	22.48
3.36	26.91	56	29.09	L1	9.7	17.21
14.752	34.2	60	25.8	N	9.8	24.4

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.238	36.43	52.17	15.74	L1	9.6	26.83
0.352	30.81	48.92	18.11	L1	9.6	21.21
0.716	22.89	46	23.11	L1	9.6	13.29
1.34	23.97	46	22.03	N	9.7	14.27
4.068	21.74	46	24.26	L1	9.7	12.04
14.888	27.77	50	22.23	N	9.8	17.97

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AC Input Port/ Voltage: 120V/60Hz

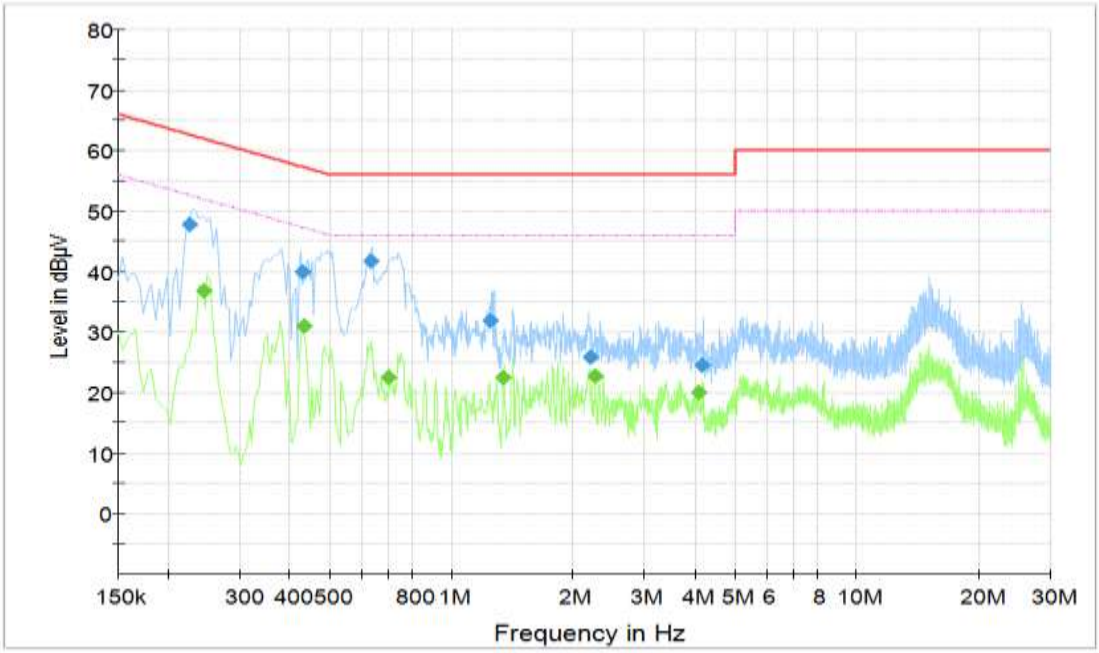

Figure B.6 Conducted Emission(Set.3, Data Transfer Mode: PC To TF Card)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.226	47.82	62.6	14.77	L1	9.6	38.22
0.428	39.85	57.29	17.44	L1	9.6	30.25
0.632	41.7	56	14.3	L1	9.6	32.1
1.248	31.91	56	24.09	L1	9.7	22.21
2.192	25.77	56	30.23	N	9.7	16.07
4.16	24.38	56	31.62	L1	9.7	14.68

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.244	36.9	51.96	15.06	L1	9.6	27.3
0.432	30.89	47.21	16.32	L1	9.6	21.29
0.7	22.39	46	23.61	L1	9.6	12.79
1.34	22.54	46	23.46	N	9.7	12.84
2.26	22.69	46	23.31	N	9.7	12.99
4.084	20.04	46	25.96	L1	9.7	10.34

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AC Input Port/ Voltage: 120V/60Hz

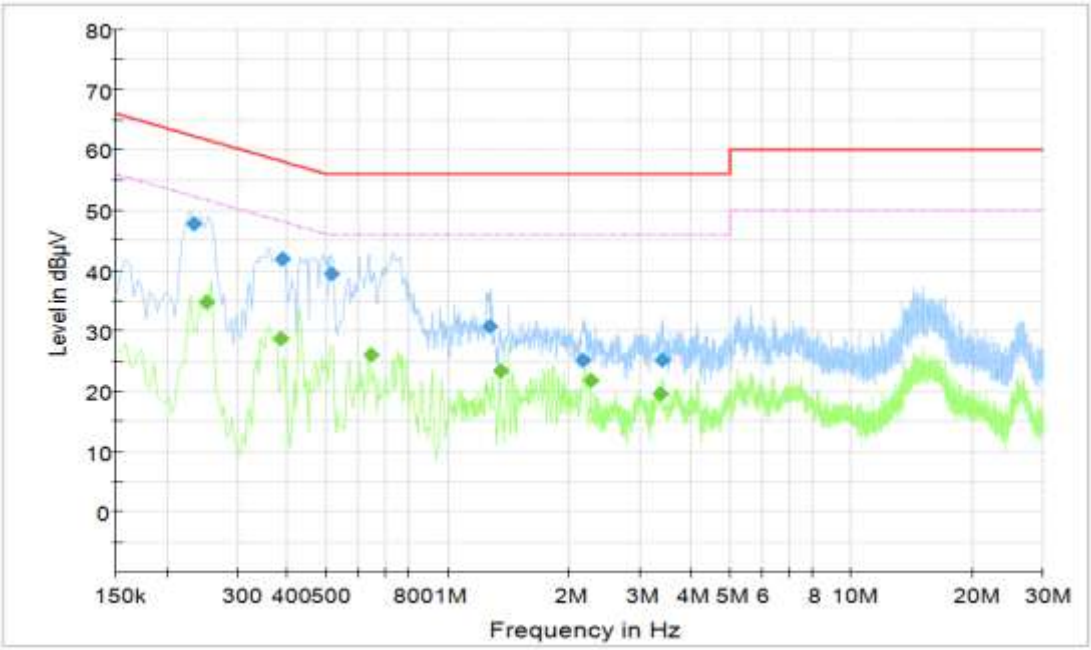

Figure B.7 Conducted Emission(Set.3, Data Transfer Mode: TF Card To PC)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.234	47.69	62.31	14.61	L1	9.6	38.09
0.388	41.97	58.11	16.13	L1	9.6	32.37
0.512	39.54	56	16.46	N	9.6	29.94
1.272	30.69	56	25.31	L1	9.7	20.99
2.156	25.05	56	30.95	N	9.7	15.35
3.4	25.09	56	30.91	L1	9.7	15.39

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.252	34.7	51.69	17	N	9.6	25.1
0.384	28.75	48.19	19.45	L1	9.6	19.15
0.644	25.95	46	20.05	L1	9.6	16.35
1.348	23.29	46	22.71	N	9.7	13.59
2.26	21.83	46	24.17	N	9.7	12.13
3.36	19.52	46	26.48	L1	9.7	9.82

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AC Input Port/ Voltage: 240V/60Hz

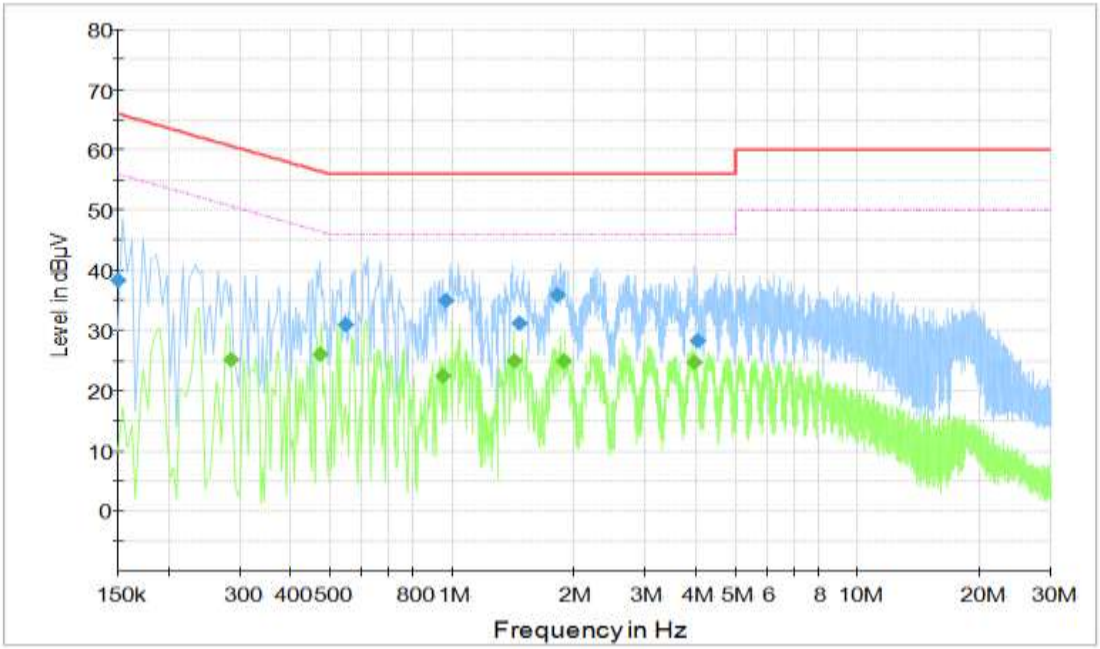

Figure B.8 Conducted Emission(Set.1, Camera Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.15	38.36	66	27.65	N	9.6	28.76
0.548	30.95	56	25.05	N	9.6	21.35
0.968	35.1	56	20.9	L1	9.7	25.4
1.464	31.27	56	24.73	L1	9.7	21.57
1.812	35.82	56	20.18	N	9.7	26.12
4.016	28.31	56	27.69	L1	9.7	18.61

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.286	25.1	50.64	25.54	N	9.6	15.5
0.472	26.14	46.48	20.34	N	9.6	16.54
0.952	22.56	46	23.44	N	9.7	12.86
1.428	24.82	46	21.18	N	9.7	15.12
1.884	24.97	46	21.03	N	9.7	15.27
3.972	24.73	46	21.27	N	9.7	15.03

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AC Input Port/ Voltage: 240V/60Hz

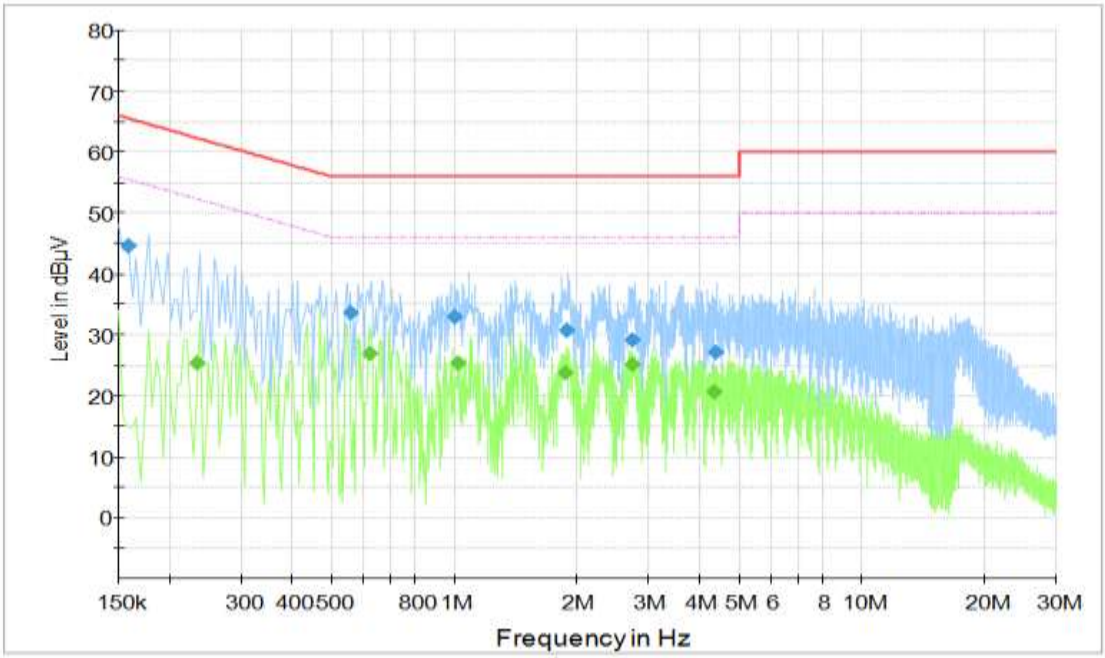

Figure B.9 Conducted Emission(Set.1, Video Player Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.158	44.71	65.57	20.86	L1	9.6	35.11
0.556	33.66	56	22.34	N	9.6	24.06
1	32.98	56	23.02	N	9.7	23.28
1.892	30.73	56	25.27	L1	9.7	21.03
2.736	29.21	56	26.79	L1	9.7	19.51
4.364	27.22	56	28.78	L1	9.7	17.52

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.234	25.39	52.31	26.91	N	9.6	15.79
0.62	26.85	46	19.15	N	9.6	17.25
1.016	25.29	46	20.71	N	9.7	15.59
1.872	23.75	46	22.25	N	9.7	14.05
2.728	25.06	46	20.94	N	9.7	15.36
4.316	20.66	46	25.34	N	9.7	10.96

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AC Input Port/ Voltage: 240V/60Hz

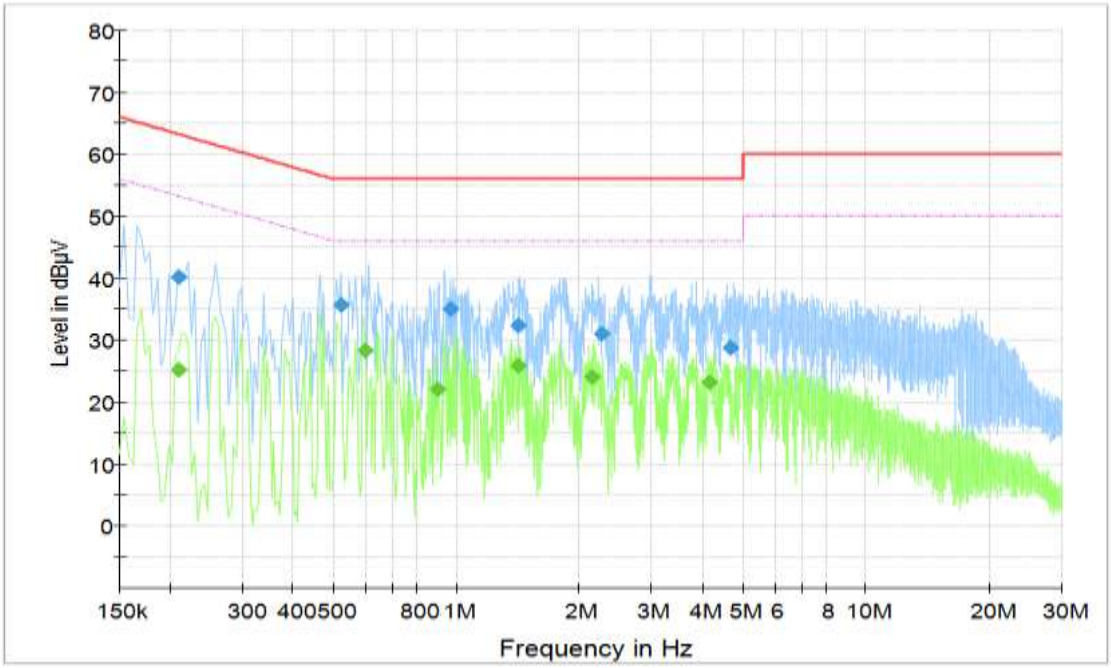

Figure B.10 Conducted Emission(Set.2, Camera Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.21	40.15	63.21	23.06	L1	9.6	30.55
0.524	35.67	56	20.33	N	9.6	26.07
0.964	34.89	56	21.11	L1	9.7	25.19
1.416	32.29	56	23.71	L1	9.7	22.59
2.252	31.03	56	24.97	L1	9.7	21.33
4.668	28.7	56	27.3	L1	9.7	19

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.21	25.13	53.21	28.07	N	9.6	15.53
0.6	28.28	46	17.72	N	9.6	18.68
0.896	22.03	46	23.97	N	9.7	12.33
1.416	25.79	46	20.21	N	9.7	16.09
2.132	24.09	46	21.91	N	9.7	14.39
4.16	23.24	46	22.76	N	9.7	13.54

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AC Input Port/ Voltage: 240V/60Hz

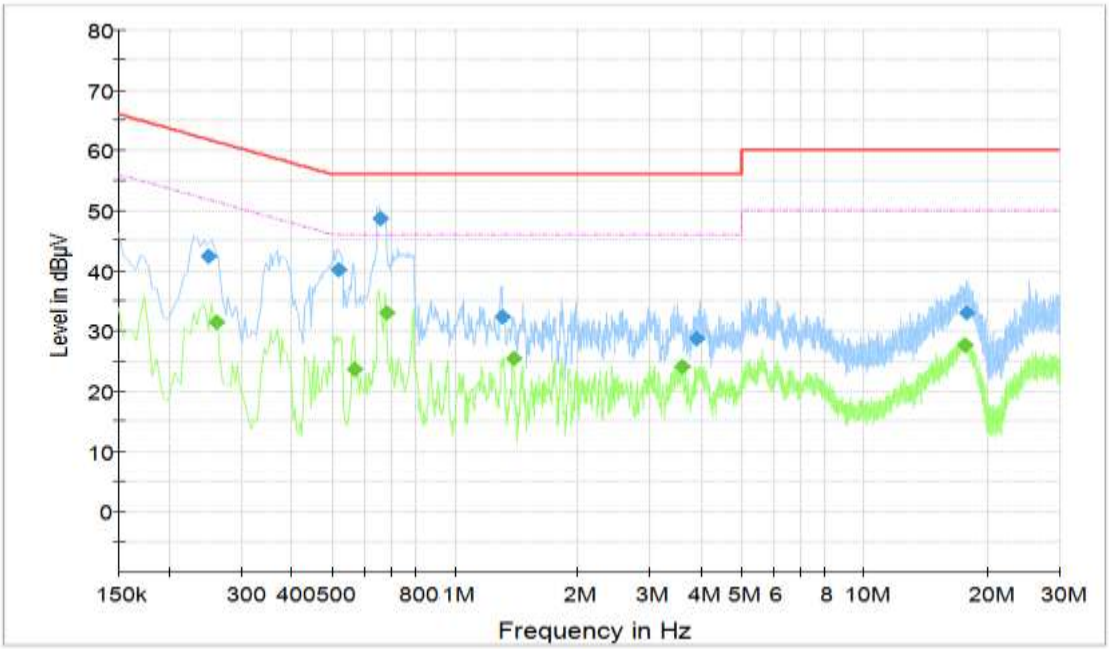

Figure B.11 Conducted Emission(Set.3, Data Transfer Mode: EUT To PC)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.25	42.43	61.76	19.33	L1	9.6	32.83
0.516	40.09	56	15.91	L1	9.6	30.49
0.652	48.73	56	7.27	L1	9.6	39.13
1.304	32.42	56	23.58	L1	9.7	22.72
3.904	28.68	56	27.32	L1	9.7	18.98
17.684	33.03	60	26.97	N	9.8	23.23

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.26	31.52	51.43	19.92	L1	9.6	21.92
0.568	23.53	46	22.47	L1	9.6	13.93
0.676	33.01	46	12.99	L1	9.6	23.41
1.384	25.29	46	20.71	N	9.7	15.59
3.576	24.06	46	21.94	L1	9.7	14.36
17.588	27.72	50	22.28	N	9.8	17.92

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AC Input Port/ Voltage: 240V/60Hz

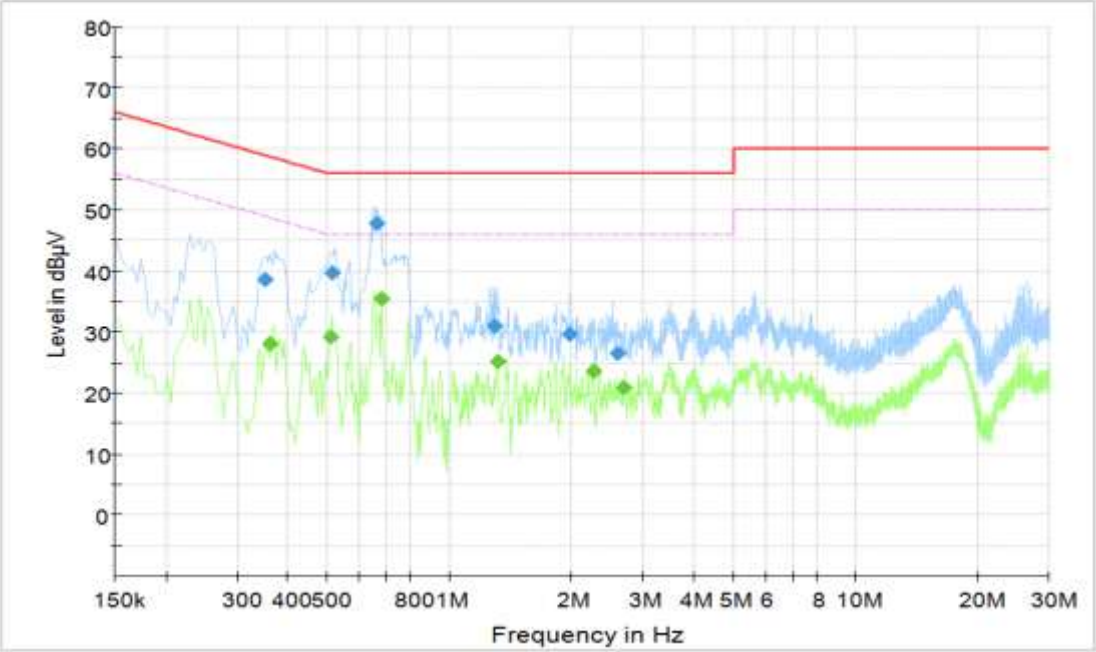

Figure B.12 Conducted Emission(Set.3, Data Transfer Mode: PC To EUT)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.352	38.64	58.92	20.27	L1	9.6	29.04
0.512	39.74	56	16.26	L1	9.6	30.14
0.66	47.68	56	8.32	L1	9.6	38.08
1.292	30.88	56	25.12	L1	9.7	21.18
1.968	29.64	56	26.36	N	9.7	19.94
2.592	26.55	56	29.45	L1	9.7	16.85

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.36	28.14	48.73	20.58	L1	9.6	18.54
0.508	29.14	46	16.86	L1	9.6	19.54
0.676	35.37	46	10.63	L1	9.6	25.77
1.308	25.05	46	20.95	N	9.7	15.35
2.26	23.56	46	22.44	N	9.7	13.86
2.692	20.92	46	25.08	N	9.7	11.22

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AC Input Port/ Voltage: 240V/60Hz

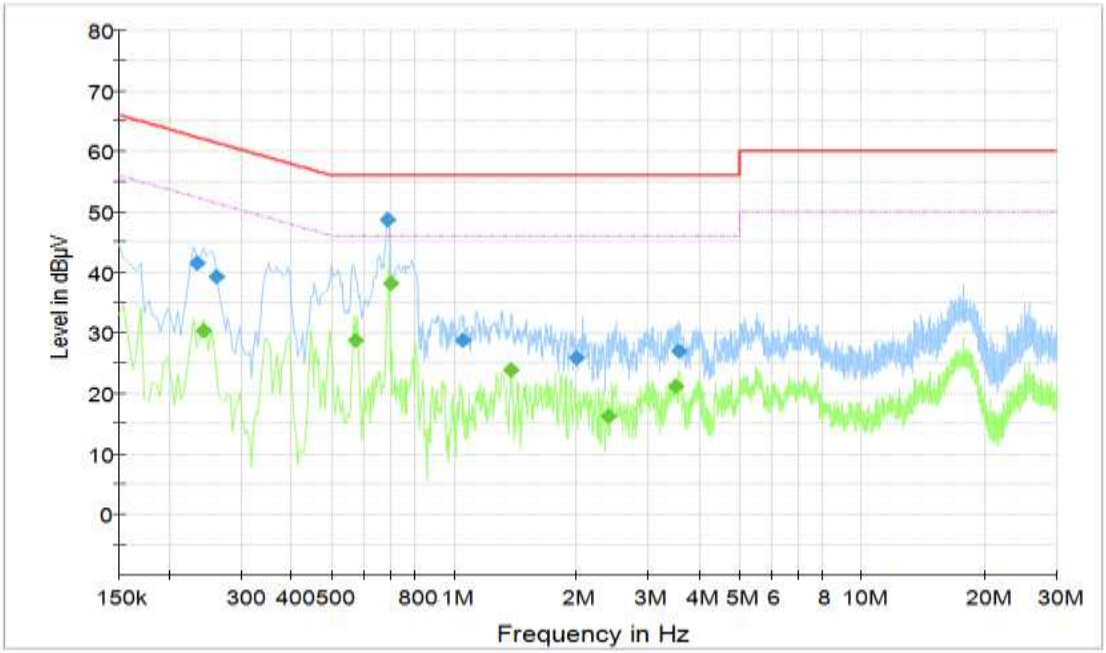

Figure B.13 Conducted Emission(Set.3, Data Transfer Mode: PC To TF Card)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.234	41.55	62.31	20.76	L1	9.6	31.95
0.26	39.23	61.43	22.2	L1	9.6	29.63
0.688	48.55	56	7.45	L1	9.6	38.95
1.044	28.76	56	27.24	L1	9.7	19.06
1.988	25.93	56	30.07	N	9.7	16.23
3.56	26.91	56	29.09	L1	9.7	17.21

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.242	30.19	52.03	21.83	L1	9.6	20.59
0.572	28.65	46	17.35	L1	9.6	19.05
0.696	38.16	46	7.84	L1	9.6	28.56
1.38	23.83	46	22.17	L1	9.7	14.13
2.388	16.1	46	29.9	N	9.7	6.4
3.5	21.16	46	24.84	L1	9.7	11.46

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AC Input Port/ Voltage: 240V/60Hz

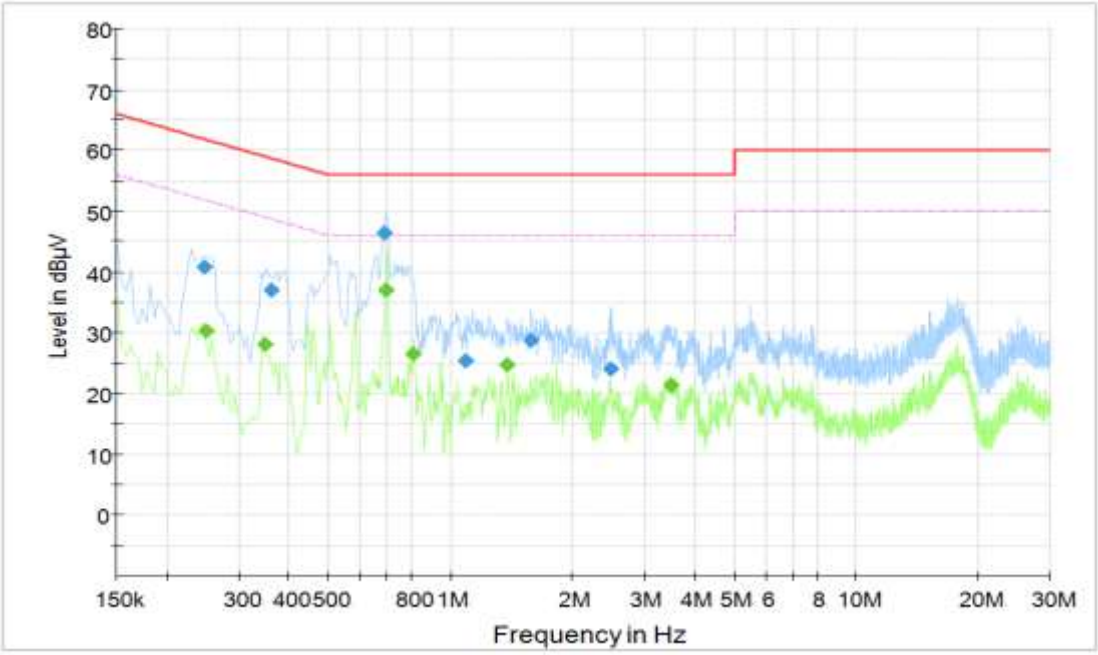

Figure B.14 Conducted Emission(Set.3, Data Transfer Mode: TF Card To PC)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.246	40.89	61.89	21	L1	9.6	31.29
0.36	36.97	58.73	21.76	L1	9.6	27.37
0.688	46.45	56	9.55	L1	9.6	36.85
1.084	25.33	56	30.67	N	9.7	15.63
1.576	28.82	56	27.18	L1	9.7	19.12
2.472	24.1	56	31.9	N	9.7	14.4

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.248	30.21	51.82	21.61	L1	9.6	20.61
0.348	28.15	49.01	20.86	L1	9.6	18.55
0.692	36.99	46	9.01	L1	9.6	27.39
0.808	26.54	46	19.46	N	9.6	16.94
1.376	24.65	46	21.35	N	9.7	14.95
3.496	21.24	46	24.76	L1	9.7	11.54

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

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