



# TEST REPORT

No. I22Z61813-EMC01

for

**Honor Device Co., Ltd.**

**Smart Phone**

**Model Name: RMO-NX3**

**FCC ID: 2AYGCRMO-NX3**

with

**Hardware Version: HN2RMOM**

**Software Version: 6.1.0.21(C900E21R1P1)**

**Issued Date: 2022-11-14**

**Note:**

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The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

**Test Laboratory:**

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I22Z61813-EMC01	Rev.0	1 <sup>st</sup> edition	2022-11-14

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



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## 1. Test Laboratory

### 1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2005 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP website.

### 1.2. Testing Location

#### CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China100191

#### CTTL(BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology Development Area, Beijing, P. R. China 100176

### 1.3. Testing Environment

Normal Temperature: 15-35° C

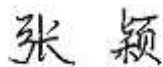
Relative Humidity: 20-75%

### 1.4. Project data

Testing Start Date: 2022-10-25

Testing End Date: 2022-11-11

### 1.5. Signature



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Zhang Ying

(Prepared this test report)



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An Hui

(Reviewed this test report)



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Shi Suolan

(Approved this test report)



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: Honor Device Co., Ltd.  
Address /Post: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

### **2.2. Manufacturer Information**

Company Name: Honor Device Co., Ltd.  
Address /Post: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

### **3. Equipment Under Test (EUT) and Ancillary Equipment (AE)**

#### **3.1. About EUT**

Description	Smart Phone
Model Name	RMO-NX3
FCC ID	2AYGCRMO-NX3
Extreme vol. Limits	3.6VDC to 4.45VDC (nominal: 3.87VDC)

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL, Telecommunication Technology Labs, CAICT.

#### **3.2. Internal Identification of EUT used during the test**

<b>EUT ID*</b>	<b>SN or IMEI</b>	<b>HW Version</b>	<b>SW Version</b>
UT22a	869123060004322/	HN2RMOM	6.1.0.21(C900E21R1P1)
	869123060008596		
UT25a	869123060003670/	HN2RMOM	6.1.0.21(C900E21R1P1)
	869123060007945		
UT26a	869123060004835/	HN2RMOM	6.1.0.21(C900E21R1P1)
	869123060009107		

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

#### **3.3. Internal Identification of AE used during the test**

<b>AE ID*</b>	<b>Name</b>	<b>Model</b>	<b>Manufacturer</b>
AE1-1	Adapter	HW-100400E01	Honor Device Co., Ltd.
AE1-2	Adapter	HW-100400B01	Honor Device Co., Ltd.
AE1-3	Adapter	HW-100400U01	Honor Device Co., Ltd.
AE2-1	USB Cable	WA0052	Broad
AE2-2	USB Cable	CUDU01B-HC385-EH	FOXCONN
AE2-3	USB Cable	L99UC144-CS-H	LUXSHARE
AE2-4	USB Cable	AU2-CRO009HF	Freeport
AE2-5	USB Cable	2120-00062-0	MING JI
AE2-6	USB Cable	2120-00060-0	MING JI
AE2-7	USB Cable	L99UC139-CS-H	LUXSHARE
AE3-1	Headset	1293-3283-3.5mm-339	Quancheng
AE3-2	Headset	EPAB542-2WH05-DH	FOXCONN
AE3-3	Headset	MEND1532B528C00	Lianchuang
AE4-1	Battery	HB506492EFW	Honor Device Co., Ltd. (Sunwoda)
AE4-2	Battery	HB506492EFW	Honor Device Co., Ltd. (Desay)
AE4-3	Battery	HB506492EFW	Honor Device Co., Ltd. (CosMX)
AE5-1	Type-C to 3.5mm	USB042020090AW7	LC
AE5-2	Type-C to 3.5mm	6001-7001-TC-348	QC

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

Note: The USB cables are shielded.

### 3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT4 + AE4-1 + AE2-1 + AE1-3	Charging
Set.2	EUT5 + AE4-2 + AE2-2 + AE1-3	Charging
Set.3	EUT6 + AE4-3 + AE2-3 + AE1-3	Charging
Set.4	EUT4 + AE4-1 + AE2-4 + AE1-3	Charging
Set.5	EUT5 + AE4-2 + AE3-1 + AE5-1	Headset
Set.6	EUT6 + AE4-3 + AE3-2 + AE5-2	Headset
Set.7	EUT4 + AE4-1 + AE3-3 + AE5-1	Headset
Set.8	EUT5 + AE4-2 + AE2-1	USB transfer
Set.9	EUT6 + AE4-3 + AE2-2	USB transfer
Set.10	EUT4 + AE4-1 + AE2-3	USB transfer
Set.11	EUT5 + AE4-2 + AE2-4	USB transfer
Set.12	EUT6 + AE4-3 + AE2-5	USB transfer
Set.13	EUT4 + AE4-1 + AE2-5 + AE1-3	Charging
Set.14	EUT4 + AE4-1 + AE2-6	USB transfer
Set.15	EUT4 + AE4-1 + AE2-7	USB transfer

### 3.5. Test summary

EUT set-up No.	Test mode	Test result	
		Radiated Emission	Conducted Emission
Set.1	GSM 850 + Real Camera	Pass	Pass
Set.2	WCDMA 850 + Real Camera	Pass	Pass
Set.3	LTE band5 + front camera	Pass	Pass
Set.4	LTE band12 + front camera	Pass	Pass
Set.5	LTE band13 + MP4	Pass	/
Set.6	LTE band26 + MP4	Pass	/
Set.7	FM + LTE band 66	Pass	/
Set.8	USB TO PC	Pass	Pass
Set.9	USB TO PC	Pass	Pass
Set.10	USB TO PC	Pass	Pass
Set.11	USB TO PC	Pass	Pass
Set.12	USB TO PC	Pass	Pass
Set.13	Black screen	Pass	Pass
Set.14	USB TO PC	Pass	/
Set.15	USB TO PC	Pass	/

## **4. Reference Documents**

### **4.1. Reference Documents for testing**

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

<b>Reference</b>	<b>Title</b>	<b>Version</b>
FCC Part 15, Subpart B	Radio frequency devices - Unintentional Radiators	2021
ANSI C63.4	American National Standard for Methods of Measurement of Radio- Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

Note: The test methods have no deviation with standards.



## 5. LABORATORY ENVIRONMENT

**Semi-anechoic chamber SAC-1** (23 meters×17meters×10meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 M
Ground system resistance	< 4
Normalised site attenuation (NSA)	< ± 4 dB, 3m/10m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio ( $S_{VSWR}$ )	Between 0 and 6 dB, from 1GHz to 18GHz

**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, >60dB; 1MHz—1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω



## 6. SUMMARY OF TEST RESULTS

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

Items	Test Name	Clause in FCC rules	Section in this report	Verdict	Test Location
1	Radiated Emission	15.109(a)	B.1	P	CTTL (Huayuan bei)
2	Conducted Emission	15.107(a)	B.2	P	CTTL (BDA)

## 7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	LISN	ENV216	101459	Rohde & Schwarz	2023-03-16	1 year
2	Test Receiver	ESCI	100766	Rohde & Schwarz	2023-03-02	1 Year
3	Test Receiver	ESW44	103015	Rohde & Schwarz	2023-01-23	1 year
4	BiLog Antenna	VULB9163	01223	Schwarzbeck	2023-07-25	1 Year
5	EMI Antenna	3115	00167250	ETS-Lindgren	2023-06-20	1 year
6	Universal Radio Communication Tester	CMW500	116588	R&S	2022-12-20	1 Year
7	PC	OPTIPLEX 380	2X1YV2X	DELL	N/A	N/A
8	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
9	Keyboard	L100	CN0RH6596589 07ATOI40	DELL	N/A	N/A
10	Mouse	M-UAE119	LZ935220ZRC	Lenovo	N/A	N/A

Test Item	Test Software and Version	Software Vendor
Conducted Emission	EMC32 V8.52.0	R&S
Radiated Emission	EMC32 V10.60.20	R&S

## **ANNEX A: MEASUREMENT RESULTS**

### **A.1 Radiated Emission**

#### **Reference**

FCC: CFR Part 15.109(a).

#### **A.1.1 Method of measurement**

The field strength of radiated emissions from the unintentional radiator (USB mode of MS and charging mode of MS) at distances of 3/10 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 3/10 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**

The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode.

The EUT was tested while operating in licensed band Rx mode with Camera/MP3. All licensed band receivers that tune in the range of 30MHz-960MHz, as listed in section 3.4, are investigated. Only the worst case emissions are reported.

The model of the PC is M4000E-17, and the serial number of the PC is M706GWXD. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

Note: I/O information: Printer – USB, Mouse – PS/2, Keyboard – USB.

#### **A.1.3 Measurement Limit**

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

Note: the above limit is for 3 meters test distance. 10 meters' limit is got by converting.

#### **A.1.4 Test Condition**

Frequency range (MHz)	RBW/VBW	Sweep Time (s)	Detector
30-1000	120kHz (IF Bandwidth)	5	Peak/Quasi-peak
Above 1000	1MHz/3MHz	15	Peak, Average

### A.1.5 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:

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

Where

$G_A$ : Antenna factor of receive antenna

$G_{\text{PL}}$ : Path Loss

$P_{\text{Mea}}$ : Measurement result on receiver.

Measurement uncertainty:

Frequency range	Measurement uncertainty
30MHz-1GHz	5.18dB, k=2
1GHz-18GHz	5.54dB, k=2

**Measurement results for Set.1, Real Camera + WCDMA 850MHz idle:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
52.601000	19.9	30.0	10.1	100.0	V	285.0
55.026000	19.5	30.0	10.5	100.0	V	315.0
84.999000	10.0	30.0	20.0	100.0	V	315.0
119.725000	10.5	33.5	23.0	100.0	V	272.0
161.144000	17.6	33.5	15.9	125.0	V	14.0
174.336000	15.8	33.5	17.8	100.0	V	135.0

**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17993.540	42.20	-29.06	46.66	24.60	54.00	11.80	H
17931.320	41.80	-29.40	46.66	24.54	54.00	12.20	H
17994.220	41.80	-29.06	46.66	24.20	54.00	12.20	H
17999.320	41.70	-29.06	46.66	24.10	54.00	12.30	V
17902.760	41.60	-29.33	45.95	24.97	54.00	12.40	V
17933.020	41.60	-29.40	46.66	24.34	54.00	12.40	H

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17619.880	53.00	-29.52	45.25	37.27	74.00	21.00	H
17460.760	52.90	-30.06	44.35	38.60	74.00	21.10	V
17631.440	52.70	-29.40	45.25	36.85	74.00	21.30	V
17974.160	52.70	-29.06	46.66	35.10	74.00	21.30	H
17950.360	52.70	-28.94	46.66	34.98	74.00	21.30	H
17551.540	52.50	-29.49	44.35	37.63	74.00	21.50	V

**Measurement results for Set.2, Real Camera + WCDMA 850MHz idle:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
52.601000	19.9	30.0	10.1	100.0	V	225.0
55.705000	19.2	30.0	10.8	175.0	V	225.0
60.555000	16.8	30.0	13.2	275.0	V	-35.0
159.107000	17.7	33.5	15.8	100.0	V	56.0
173.172000	15.0	33.5	18.5	100.0	V	0.0
181.611000	15.7	33.5	17.9	100.0	V	170.0

**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17985.040	41.80	-29.06	46.66	24.20	54.00	12.20	V
17980.620	41.80	-29.06	46.66	24.20	54.00	12.20	V
17977.900	41.70	-29.06	46.66	24.10	54.00	12.30	V
17791.920	41.60	-29.89	45.95	25.53	54.00	12.40	V
17915.000	41.60	-29.33	46.66	24.27	54.00	12.40	H
17964.300	41.60	-29.06	46.66	24.00	54.00	12.40	V

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17476.740	53.20	-30.06	44.35	38.90	74.00	20.80	V
17533.180	52.90	-29.32	44.35	37.87	74.00	21.10	V
17486.940	52.70	-29.77	44.35	38.12	74.00	21.30	H
17978.240	52.40	-29.06	46.66	34.80	74.00	21.60	V
17954.100	52.40	-28.94	46.66	34.68	74.00	21.60	H
17997.960	52.30	-29.06	46.66	34.70	74.00	21.70	V

**Measurement results for Set.3, Front camera+ LTE band 5 idle:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
52.213000	18.2	30.0	11.8	100.0	V	-22.0
54.929000	19.9	30.0	10.1	125.0	V	80.0
97.512000	8.4	33.5	25.1	100.0	V	225.0
158.234000	15.6	33.5	17.9	100.0	V	27.0
173.754000	17.1	33.5	16.5	100.0	V	45.0
179.962000	14.6	33.5	18.9	100.0	V	146.0

**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17994.220	42.30	-29.06	46.66	24.70	54.00	11.70	H
17995.920	42.10	-29.06	46.66	24.50	54.00	11.90	V
17993.540	41.90	-29.06	46.66	24.30	54.00	12.10	V
17546.100	41.90	-29.49	44.35	27.03	54.00	12.10	V
17893.240	41.80	-29.53	45.95	25.38	54.00	12.20	V
17902.080	41.70	-29.33	45.95	25.07	54.00	12.30	V

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17980.620	52.90	-29.06	46.66	35.30	74.00	21.10	V
17971.440	52.60	-29.06	46.66	35.00	74.00	21.40	H
17995.240	52.50	-29.06	46.66	34.90	74.00	21.50	V
17612.400	52.40	-29.52	45.25	36.67	74.00	21.60	H
17944.920	52.40	-28.94	46.66	34.68	74.00	21.60	H
17799.400	52.30	-29.89	45.95	36.23	74.00	21.70	V



**Measurement results for Set.4, Front camera + LTE band 12 idle:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
53.377000	20.0	30.0	10.0	125.0	V	315.0
57.645000	18.8	30.0	11.2	300.0	V	225.0
65.114000	15.5	30.0	14.5	125.0	V	170.0
85.484000	9.7	30.0	20.3	201.0	V	309.0
161.435000	16.2	33.5	17.3	100.0	V	2.0
178.313000	15.5	33.5	18.0	100.0	V	135.0

**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17999.320	42.10	-29.06	46.66	24.50	54.00	11.90	V
17997.620	42.00	-29.06	46.66	24.40	54.00	12.00	V
17963.960	41.90	-29.06	46.66	24.30	54.00	12.10	V
17992.180	41.90	-29.06	46.66	24.30	54.00	12.10	H
17999.660	41.80	-29.06	46.66	24.20	54.00	12.20	V
17994.220	41.70	-29.06	46.66	24.10	54.00	12.30	H

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17997.960	53.70	-29.06	46.66	36.10	74.00	20.30	V
17796.000	53.20	-29.89	45.95	37.13	74.00	20.80	V
17995.920	53.20	-29.06	46.66	35.60	74.00	20.80	V
17797.700	52.60	-29.89	45.95	36.53	74.00	21.40	V
17632.460	52.60	-29.40	45.25	36.75	74.00	21.40	H
17475.720	52.40	-30.06	44.35	38.10	74.00	21.60	H

**Measurement results for Set.5, MP4+ LTE band13 idle:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
52.213000	9.9	30.0	20.1	125.0	H	93.0
55.414000	10.3	30.0	19.7	175.0	V	45.0
59.585000	8.7	30.0	21.3	275.0	H	-10.0
108.279000	9.7	33.5	23.8	100.0	V	225.0
207.995000	8.5	33.5	25.0	175.0	H	225.0
764.678000	20.0	36.0	16.0	225.0	V	135.0

**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
18000.000	42.50	-29.24	47.00	24.74	54.00	11.50	H
17995.240	42.10	-29.06	46.66	24.50	54.00	11.90	H
17910.920	41.80	-29.33	45.95	25.17	54.00	12.20	H
17978.240	41.70	-29.06	46.66	24.10	54.00	12.30	H
17975.180	41.70	-29.06	46.66	24.10	54.00	12.30	V
17979.260	41.60	-29.06	46.66	24.00	54.00	12.40	H

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17549.840	53.00	-29.49	44.35	38.13	74.00	21.00	V
17249.960	52.40	-30.02	43.36	39.06	74.00	21.60	V
17993.880	52.40	-29.06	46.66	34.80	74.00	21.60	V
17976.200	52.10	-29.06	46.66	34.50	74.00	21.90	H
17998.300	52.00	-29.06	46.66	34.40	74.00	22.00	V
17888.140	52.00	-29.53	45.95	35.58	74.00	22.00	H

**Measurement results for Set.6, MP4 + LTE band 26 idle:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
46.005000	10.4	30.0	19.6	321.0	H	-45.0
56.093000	10.0	30.0	20.0	175.0	V	285.0
103.914000	8.8	33.5	24.8	100.0	H	146.0
107.988000	9.3	33.5	24.2	225.0	V	225.0
201.302000	8.5	33.5	25.1	201.0	V	135.0
223.030000	9.0	36.0	27.1	100.0	V	183.0

**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17995.240	42.30	-29.06	46.66	24.70	54.00	11.70	H
17986.400	42.00	-29.06	46.66	24.40	54.00	12.00	H
17995.920	41.80	-29.06	46.66	24.20	54.00	12.20	H
17988.100	41.60	-29.06	46.66	24.00	54.00	12.40	V
17973.820	41.60	-29.06	46.66	24.00	54.00	12.40	H
17981.980	41.60	-29.06	46.66	24.00	54.00	12.40	V

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17995.240	52.70	-29.06	46.66	35.10	74.00	21.30	V
17998.980	52.10	-29.06	46.66	34.50	74.00	21.90	V
17902.760	52.10	-29.33	45.95	35.47	74.00	21.90	H
17371.340	52.00	-29.97	43.36	38.61	74.00	22.00	H
17903.440	52.00	-29.33	45.95	35.37	74.00	22.00	V
17954.780	51.90	-28.94	46.66	34.18	74.00	22.10	V

**Measurement results for Set.7, FM + LTE band 66 idle:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
45.520000	10.4	30.0	19.6	320.0	V	-34.0
56.190000	10.0	30.0	20.0	225.0	V	27.0
61.719000	8.9	30.0	21.1	100.0	V	0.0
104.108000	10.2	33.5	23.4	325.0	V	272.0
353.107000	12.5	36.0	23.5	125.0	H	208.0
427.118000	13.7	36.0	22.3	125.0	V	315.0

**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17998.300	42.00	-29.06	46.66	24.40	54.00	12.00	H
17984.360	41.80	-29.06	46.66	24.20	54.00	12.20	V
17992.180	41.70	-29.06	46.66	24.10	54.00	12.30	H
17903.780	41.60	-29.33	45.95	24.97	54.00	12.40	V
17965.660	41.60	-29.06	46.66	24.00	54.00	12.40	V
17913.640	41.60	-29.33	45.95	24.97	54.00	12.40	H

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17812.320	53.00	-29.63	45.95	36.68	74.00	21.00	V
17901.060	52.60	-29.33	45.95	35.97	74.00	21.40	H
17547.120	52.30	-29.49	44.35	37.43	74.00	21.70	H
17986.400	52.30	-29.06	46.66	34.70	74.00	21.70	V
17887.120	52.20	-29.53	45.95	35.78	74.00	21.80	V
17682.100	52.20	-29.98	45.25	36.93	74.00	21.80	V

**Measurement results for Set.8, USB TO PC:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
34.656000	19.0	30.0	11.0	100.0	V	225.0
53.280000	18.0	30.0	12.0	100.0	V	272.0
97.609000	17.2	33.5	16.3	100.0	V	45.0
145.139000	16.6	33.5	16.9	125.0	V	39.0
480.274000	27.2	36.0	8.8	275.0	V	15.0
672.043000	27.1	36.0	9.0	100.0	H	180.0

**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
6051.380	43.00	-37.82	34.40	46.42	54.00	11.00	V
17991.160	42.80	-29.06	46.66	25.20	54.00	11.20	H
17539.640	42.30	-29.32	44.35	27.27	54.00	11.70	H
17999.320	42.20	-29.06	46.66	24.60	54.00	11.80	V
17579.760	42.10	-29.79	45.25	26.65	54.00	11.90	H
6051.040	42.10	-37.82	34.40	45.52	54.00	11.90	V

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17991.840	54.30	-29.06	46.66	36.70	74.00	19.70	V
17231.940	52.90	-29.57	43.36	39.11	74.00	21.10	H
17547.800	52.80	-29.49	44.35	37.93	74.00	21.20	H
17637.220	52.80	-29.40	45.25	36.95	74.00	21.20	H
17680.060	52.70	-29.98	45.25	37.43	74.00	21.30	V
17872.500	52.60	-29.39	45.95	36.04	74.00	21.40	V

**Measurement results for Set.9, USB TO PC:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
36.208000	19.1	30.0	10.9	200.0	V	225.0
52.698000	18.0	30.0	12.0	125.0	V	225.0
98.967000	18.8	33.5	14.7	100.0	V	15.0
545.070000	25.5	36.0	10.5	225.0	V	0.0
594.637000	27.4	36.0	8.6	225.0	V	0.0
673.207000	27.3	36.0	8.8	175.0	V	0.0

**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
6051.380	43.60	-37.82	34.40	47.02	54.00	10.40	H
6051.720	42.50	-37.82	34.40	45.92	54.00	11.50	V
17998.300	42.10	-29.06	46.66	24.50	54.00	11.90	H
17990.480	41.90	-29.06	46.66	24.30	54.00	12.10	V
17540.660	41.80	-29.49	44.35	26.93	54.00	12.20	V
17997.280	41.70	-29.06	46.66	24.10	54.00	12.30	V

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17993.880	53.30	-29.06	46.66	35.70	74.00	20.70	H
17993.200	53.20	-29.06	46.66	35.60	74.00	20.80	V
17887.800	53.10	-29.53	45.95	36.68	74.00	20.90	H
17975.860	53.00	-29.06	46.66	35.40	74.00	21.00	H
17993.540	52.90	-29.06	46.66	35.30	74.00	21.10	V
17982.660	52.70	-29.06	46.66	35.10	74.00	21.30	V

**Measurement results for Set.10, USB TO PC:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
35.432000	19.3	30.0	10.7	100.0	V	135.0
52.407000	18.1	30.0	11.9	100.0	V	260.0
96.833000	16.2	33.5	17.3	100.0	V	180.0
144.169000	16.3	33.5	17.2	221.0	V	39.0
528.386000	26.6	36.0	9.5	225.0	V	0.0
672.334000	29.1	36.0	6.9	175.0	V	3.0

**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
6051.720	43.60	-37.82	34.40	47.02	54.00	10.40	V
17977.220	41.80	-29.06	46.66	24.20	54.00	12.20	H
17997.280	41.80	-29.06	46.66	24.20	54.00	12.20	V
17996.600	41.70	-29.06	46.66	24.10	54.00	12.30	H
17972.800	41.70	-29.06	46.66	24.10	54.00	12.30	V
17989.120	41.70	-29.06	46.66	24.10	54.00	12.30	V

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17999.660	53.00	-29.06	46.66	35.40	74.00	21.00	V
17869.100	52.50	-29.39	45.95	35.94	74.00	21.50	V
17574.660	52.50	-29.79	45.25	37.05	74.00	21.50	H
17995.920	52.50	-29.06	46.66	34.90	74.00	21.50	V
17571.260	52.40	-29.79	45.25	36.95	74.00	21.60	V
17998.980	52.30	-29.06	46.66	34.70	74.00	21.70	V

**Measurement results for Set.11, USB TO PC:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
35.529000	19.7	30.0	10.3	175.0	V	225.0
52.213000	18.3	30.0	11.7	100.0	V	235.0
96.154000	16.5	33.5	17.0	225.0	V	28.0
144.460000	15.7	33.5	17.8	100.0	V	225.0
195.967000	14.5	33.5	19.1	100.0	V	118.0
592.891000	26.3	36.0	9.7	225.0	V	14.0

**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
6051.720	44.00	-37.82	34.40	47.42	54.00	10.00	V
17987.420	42.50	-29.06	46.66	24.90	54.00	11.50	V
6051.380	42.30	-37.82	34.40	45.72	54.00	11.70	H
17991.500	41.80	-29.06	46.66	24.20	54.00	12.20	V
17989.120	41.70	-29.06	46.66	24.10	54.00	12.30	V
17989.800	41.70	-29.06	46.66	24.10	54.00	12.30	H

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
3591.820	53.50	-39.31	31.15	61.66	74.00	20.50	V
17786.480	52.70	-29.89	45.95	36.63	74.00	21.30	V
17537.940	52.60	-29.32	44.35	37.57	74.00	21.40	V
17542.360	52.50	-29.49	44.35	37.63	74.00	21.50	V
18000.000	52.50	-29.24	47.00	34.74	74.00	21.50	H
17989.800	52.50	-29.06	46.66	34.90	74.00	21.50	V



**Measurement results for Set.12, USB TO PC:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
34.850000	20.1	30.0	9.9	125.0	V	225.0
54.250000	16.9	30.0	13.1	125.0	V	225.0
144.169000	17.7	33.5	15.8	100.0	V	45.0
404.808000	20.4	36.0	15.6	200.0	H	180.0
480.953000	26.7	36.0	9.4	300.0	V	14.0
672.043000	26.9	36.0	9.1	100.0	H	92.0

**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
6051.720	43.90	-37.82	34.40	47.32	54.00	10.10	H
6052.060	43.20	-37.82	34.40	46.62	54.00	10.80	V
17906.840	41.90	-29.33	45.95	25.27	54.00	12.10	H
17556.300	41.80	-29.49	44.35	26.93	54.00	12.20	V
17998.640	41.80	-29.06	46.66	24.20	54.00	12.20	H
17886.100	41.70	-29.53	45.95	25.28	54.00	12.30	V

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17556.300	53.20	-29.49	44.35	38.33	74.00	20.80	H
17992.520	53.00	-29.06	46.66	35.40	74.00	21.00	H
17654.220	53.00	-29.60	45.25	37.35	74.00	21.00	V
17984.020	53.00	-29.06	46.66	35.40	74.00	21.00	H
17931.660	52.70	-29.40	46.66	35.44	74.00	21.30	V
17994.900	52.70	-29.06	46.66	35.10	74.00	21.30	H

**Measurement results for Set.13, black screen:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
50.564000	17.06	30.00	12.94	112.0	V	162.0
58.033000	14.24	30.00	15.76	112.0	V	135.0
115.845000	14.08	33.52	19.44	187.0	V	35.0
126.709000	14.80	33.52	18.72	112.0	V	45.0
160.271000	19.55	33.52	13.97	175.0	V	22.0
226.619000	9.31	36.02	26.71	282.0	H	8.0

**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17974.160	42.00	-29.06	46.66	24.40	54.00	12.00	V
17985.040	42.00	-29.06	46.66	24.40	54.00	12.00	V
17994.560	42.00	-29.06	46.66	24.40	54.00	12.00	V
17998.980	41.90	-29.06	46.66	24.30	54.00	12.10	H
17974.500	41.70	-29.06	46.66	24.10	54.00	12.30	H
17911.940	41.70	-29.33	45.95	25.07	54.00	12.30	H

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17983.340	52.70	-29.06	46.66	35.10	74.00	21.30	V
17616.480	52.70	-29.52	45.25	36.97	74.00	21.30	H
17552.900	52.60	-29.49	44.35	37.73	74.00	21.40	V
17566.840	52.50	-29.79	45.25	37.05	74.00	21.50	V
17964.980	52.50	-29.06	46.66	34.90	74.00	21.50	V
17975.520	52.50	-29.06	46.66	34.90	74.00	21.50	H

**Measurement results for Set.14, USB TO PC:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
52.116000	15.06	30.00	14.94	323.0	V	135.0
84.126000	15.54	30.00	14.46	125.0	V	85.0
96.057000	22.75	33.52	10.77	285.0	H	279.0
215.949000	22.43	33.52	11.09	108.0	V	-4.0
288.117000	11.51	36.02	24.51	100.0	V	315.0
530.326000	28.73	36.02	7.29	275.0	V	-45.0

**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17989.800000	40.90	-29.06	46.66	23.30	54.00	13.10	H
18000.000000	40.80	-29.24	47.00	23.04	54.00	13.20	H
17544.400000	40.70	-29.49	44.35	25.83	54.00	13.30	H
17468.580000	40.70	-30.06	44.35	26.40	54.00	13.30	V
17576.020000	40.60	-29.79	45.25	25.15	54.00	13.40	V
17990.140000	40.60	-29.06	46.66	23.00	54.00	13.40	H

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17984.700000	52.60	-29.06	46.66	35.00	74.00	21.40	H
17710.660000	51.30	-29.73	45.25	35.79	74.00	22.70	V
17983.340000	51.30	-29.06	46.66	33.70	74.00	22.70	V
17463.480000	50.90	-30.06	44.35	36.60	74.00	23.10	H
17990.140000	50.90	-29.06	46.66	33.30	74.00	23.10	V
17979.260000	50.80	-29.06	46.66	33.20	74.00	23.20	V

**Measurement results for Set.15, USB TO PC:**
**Charging Mode/QP detector**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
52.601000	16.94	30.00	13.06	100.0	V	-43.0
59.876000	14.41	30.00	15.59	287.0	H	98.0
95.863000	16.57	33.52	16.95	108.0	V	9.0
167.837000	22.92	33.52	10.60	325.0	H	60.0
215.949000	24.33	33.52	9.19	100.0	V	-4.0
528.871000	29.63	36.02	6.39	223.0	V	-45.0

**Charging Mode/Average detector**

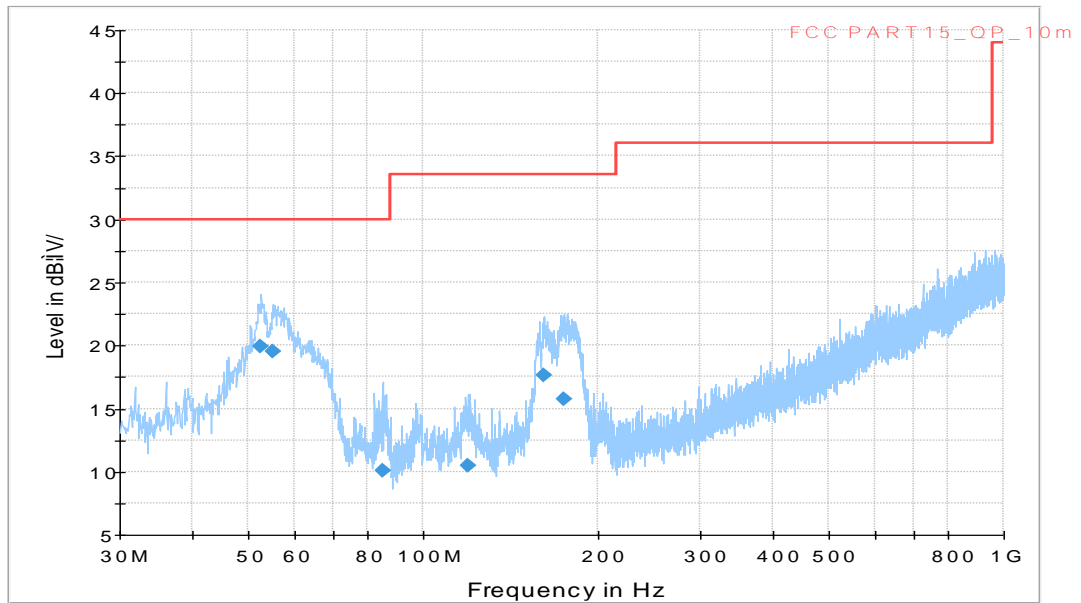
Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
18000.000000	41.00	-29.24	47.00	23.24	54.00	13.00	V
17998.980000	40.90	-29.06	46.66	23.30	54.00	13.10	V
17990.140000	40.70	-29.06	46.66	23.10	54.00	13.30	H
17559.700000	40.70	-29.49	44.35	25.83	54.00	13.30	V
17992.180000	40.60	-29.06	46.66	23.00	54.00	13.40	H
17492.040000	40.60	-29.77	44.35	26.02	54.00	13.40	V

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17997.960000	51.80	-29.06	46.66	34.20	74.00	22.20	H
17869.100000	51.50	-29.39	45.95	34.94	74.00	22.50	H
17989.460000	51.20	-29.06	46.66	33.60	74.00	22.80	H
17248.600000	51.00	-30.02	43.36	37.66	74.00	23.00	H
17602.880000	50.80	-29.52	45.25	35.07	74.00	23.20	H
17892.220000	50.60	-29.53	45.95	34.18	74.00	23.40	V

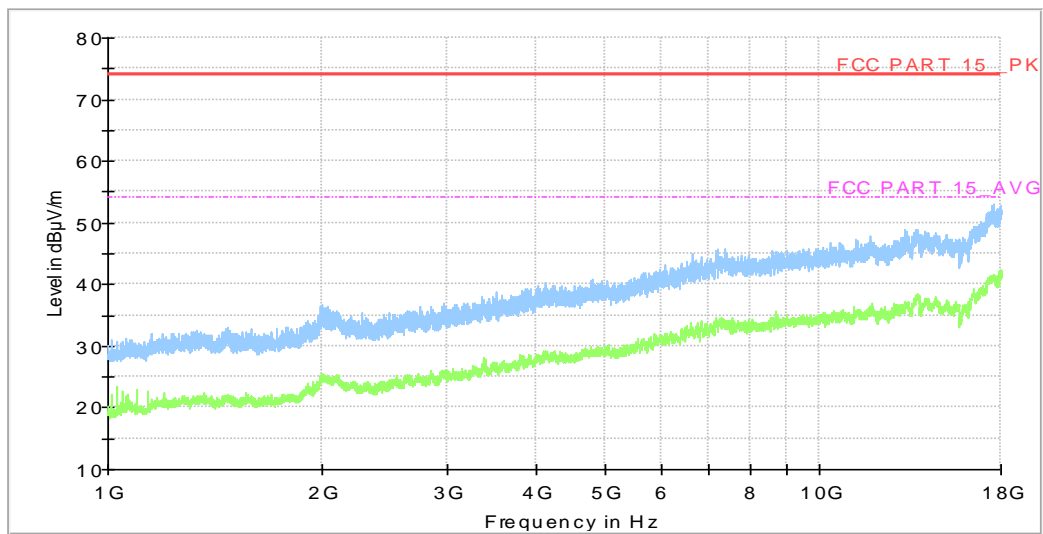
**Measurement results for Set.1, Rear Camera + GSM 850MHz idle:**

RE FCC\_30MHz-1GHz\_10m\_Direct\_testing\_FP5b



**Fig A.1 Radiated Emission from 30MHz to 1GHz**

Full Spectrum

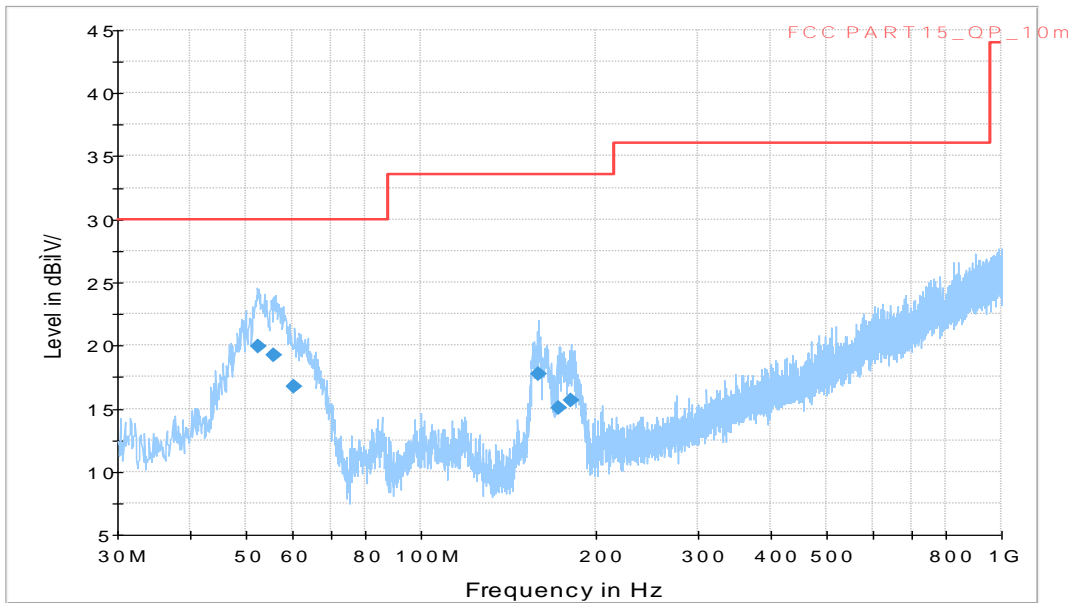


- |  |                    |  |                  |  |                    |
|--|--------------------|--|------------------|--|--------------------|
|  | AVG_MAXH           |  | PK+_MAXH         |  | Critical_Freqs AVG |
|  | Critical_Freqs PK+ |  | FCC PART 15 _PK  |  | FCC PART 15_AVG    |
|  | Final_Result PK+   |  | Final_Result AVG |  |                    |

**Fig A.2 Radiated Emission from 1GHz to 18GHz**

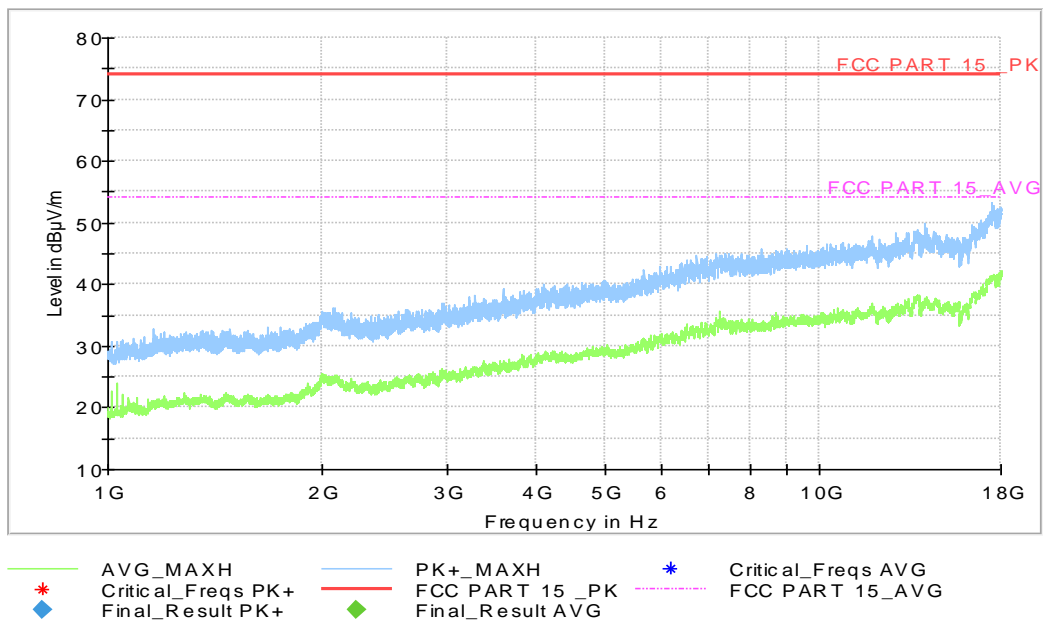
**Measurement results for Set.2, Rear Camera + WCDMA 850MHz idle:**

RE FCC\_30MHz-1GHz\_10m\_Direct\_testing\_FP5b



**Fig A.3 Radiated Emission from 30MHz to 1GHz**

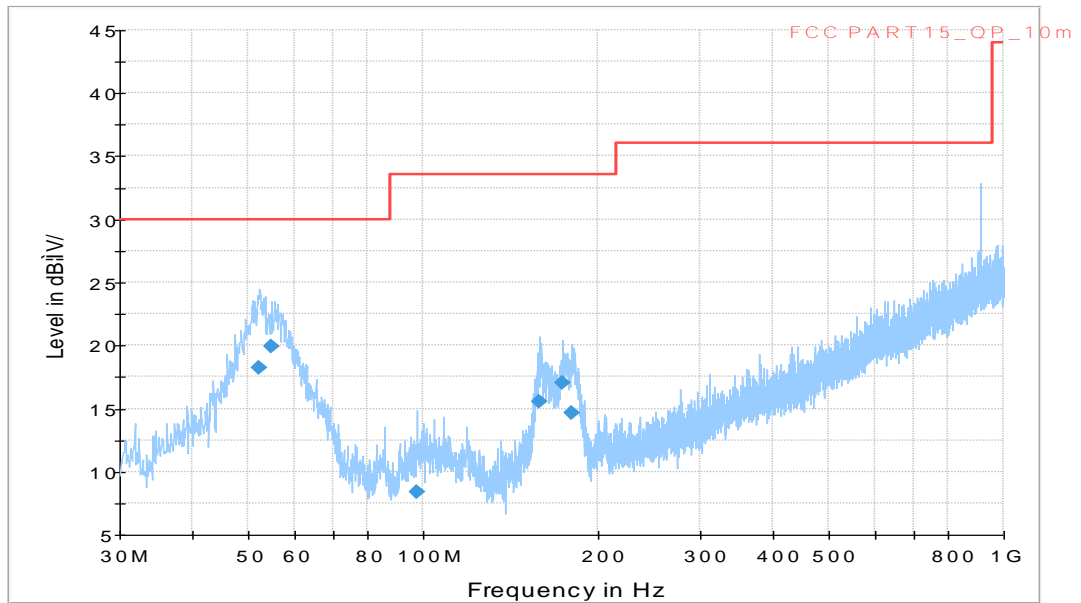
Full Spectrum



**Fig A.4 Radiated Emission from 1GHz to 18GHz**

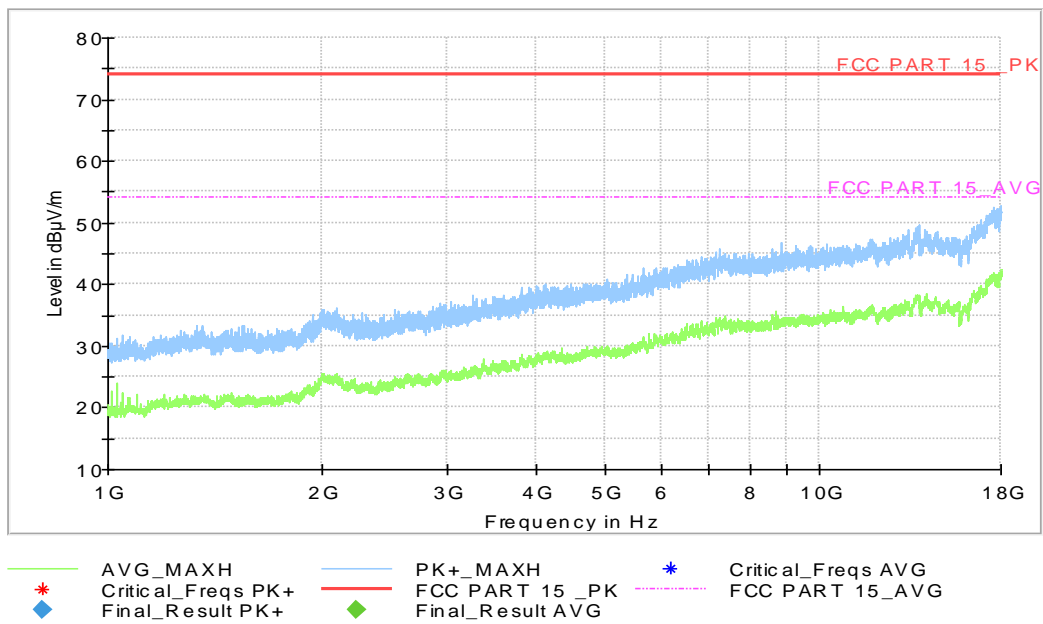
**Measurement results for Set.3, Front camera+ LTE band 5 idle:**

RE FCC\_30MHz-1GHz\_10m\_Direct\_testing\_FP5b



**Fig A.5 Radiated Emission from 30MHz to 1GHz**

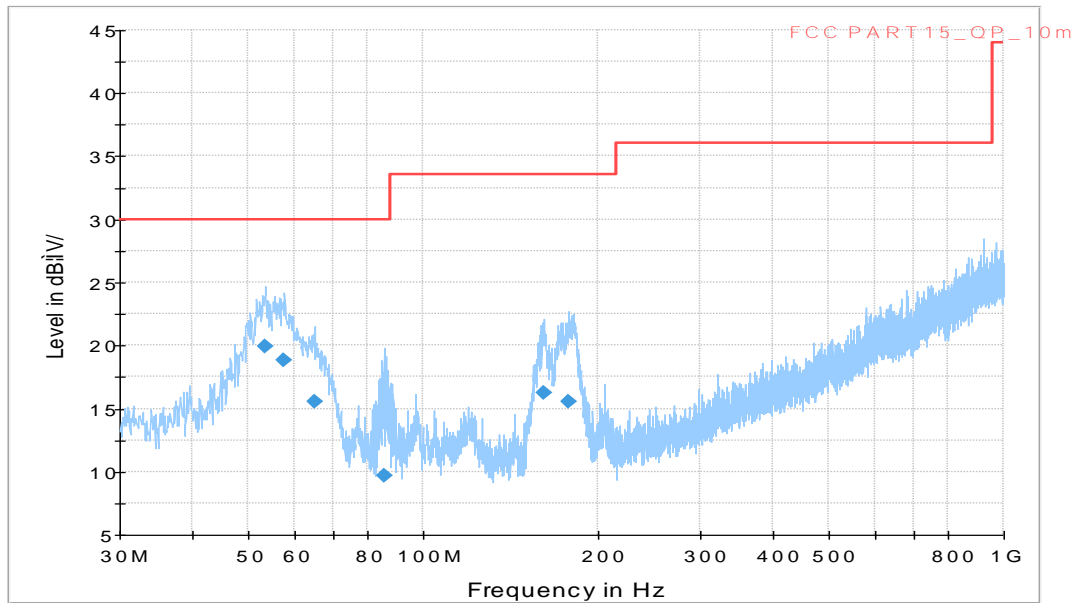
Full Spectrum



**Fig A.6 Radiated Emission from 1GHz to 18GHz**

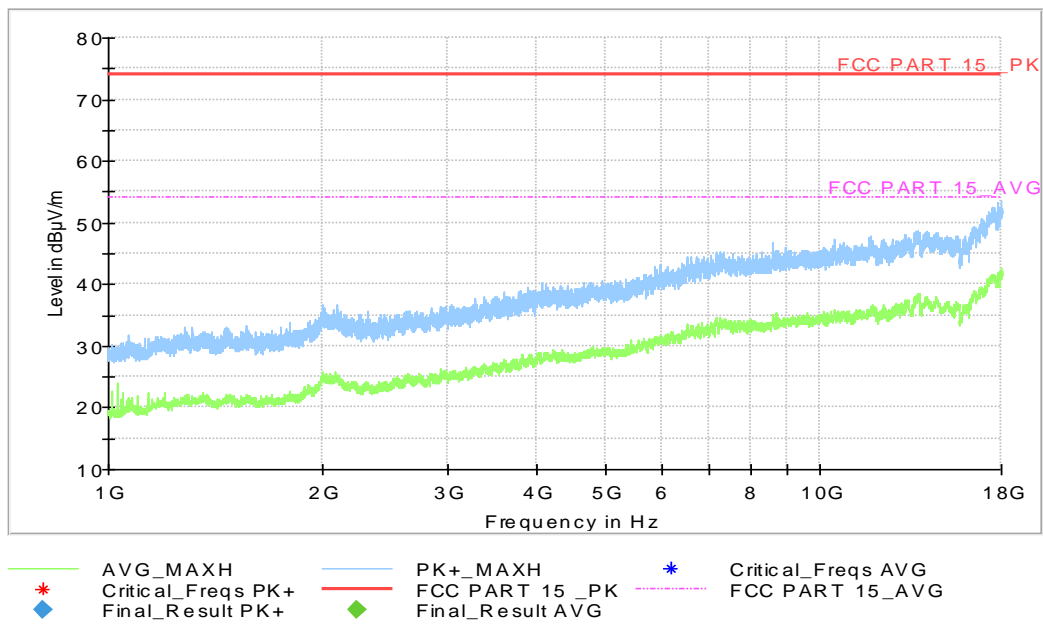
**Measurement results for Set.4, Front camera + LTE band 12 idle:**

RE FCC\_30MHz-1GHz\_10m\_Direct\_testing\_FP5b



**Fig A.7 Radiated Emission from 30MHz to 1GHz**

Full Spectrum

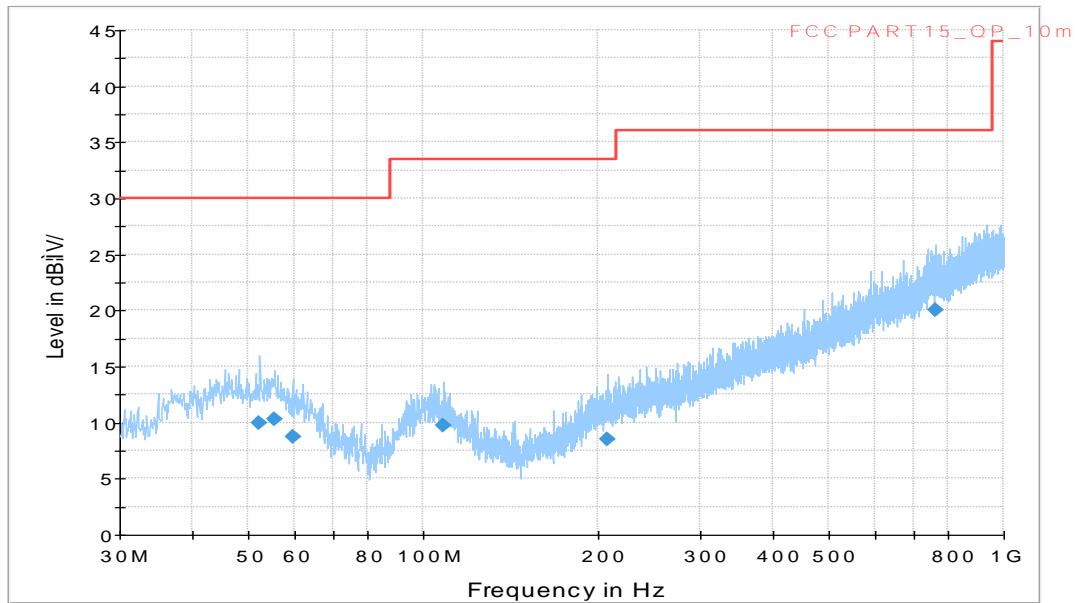


**Fig A.8 Radiated Emission from 1GHz to 18GHz**



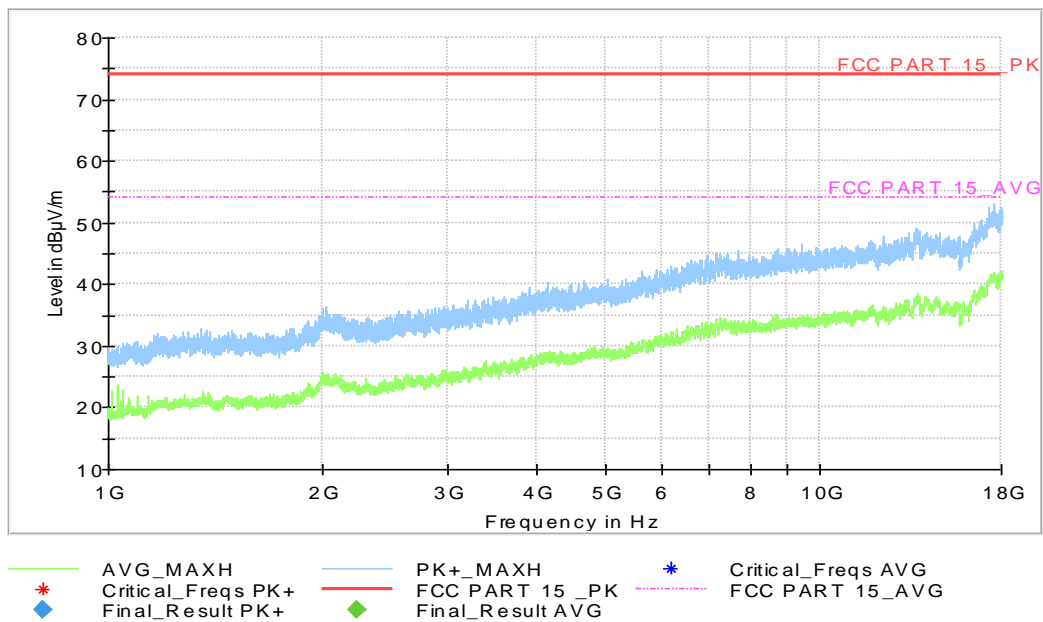
**Measurement results for Set.5, MP4+ LTE band13 idle:**

RE FCC\_30MHz-1GHz\_10m\_Direct\_testing\_FP5b



**Fig A.9 Radiated Emission from 30MHz to 1GHz**

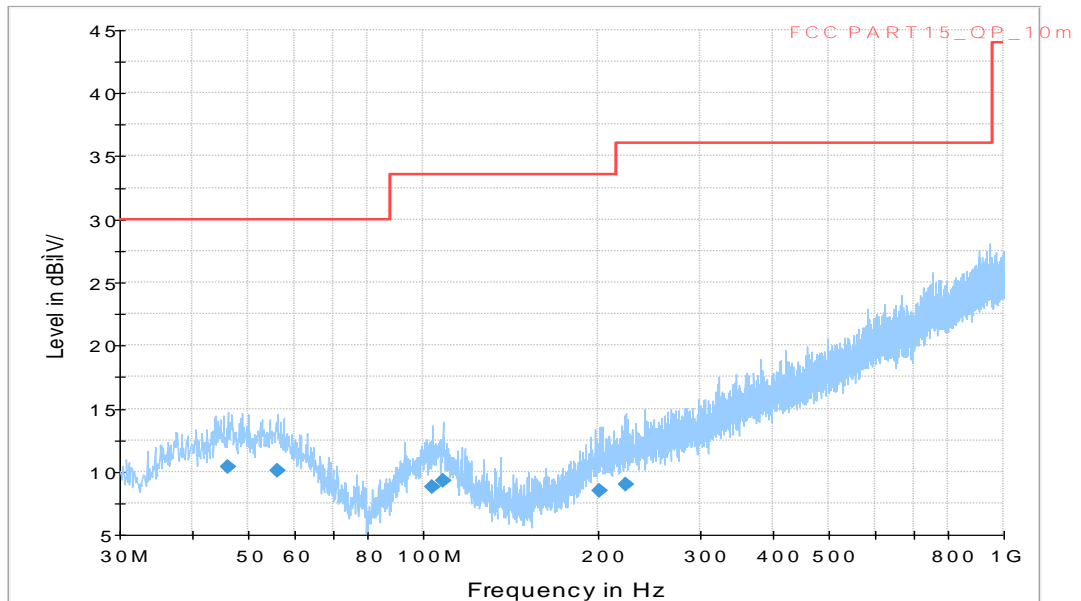
Full Spectrum



**Fig A.10 Radiated Emission from 1GHz to 18GHz**

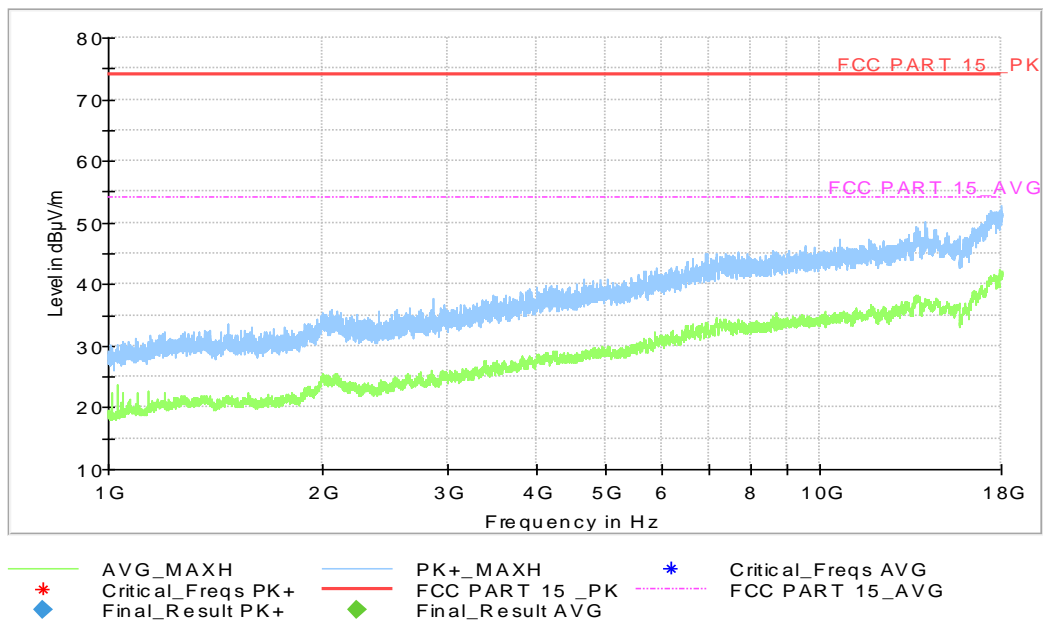
**Measurement results for Set.6, MP4 + LTE band 26 idle:**

RE FCC\_30MHz-1GHz\_10m\_Direct\_testing\_FP5b



**Fig A.11 Radiated Emission from 30MHz to 1GHz**

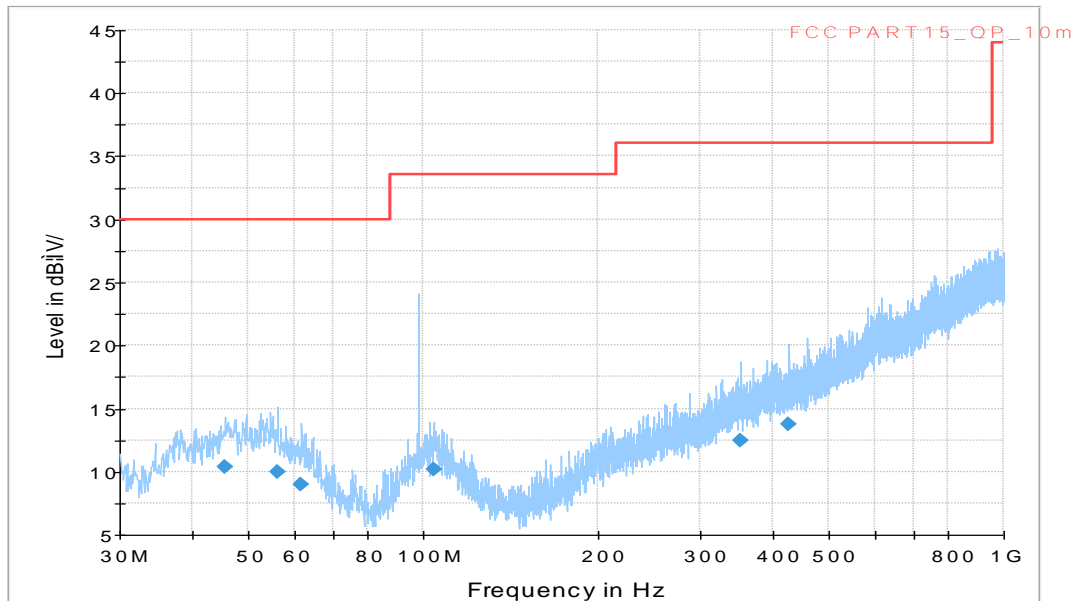
Full Spectrum



**Fig A.12 Radiated Emission from 1GHz to 18GHz**

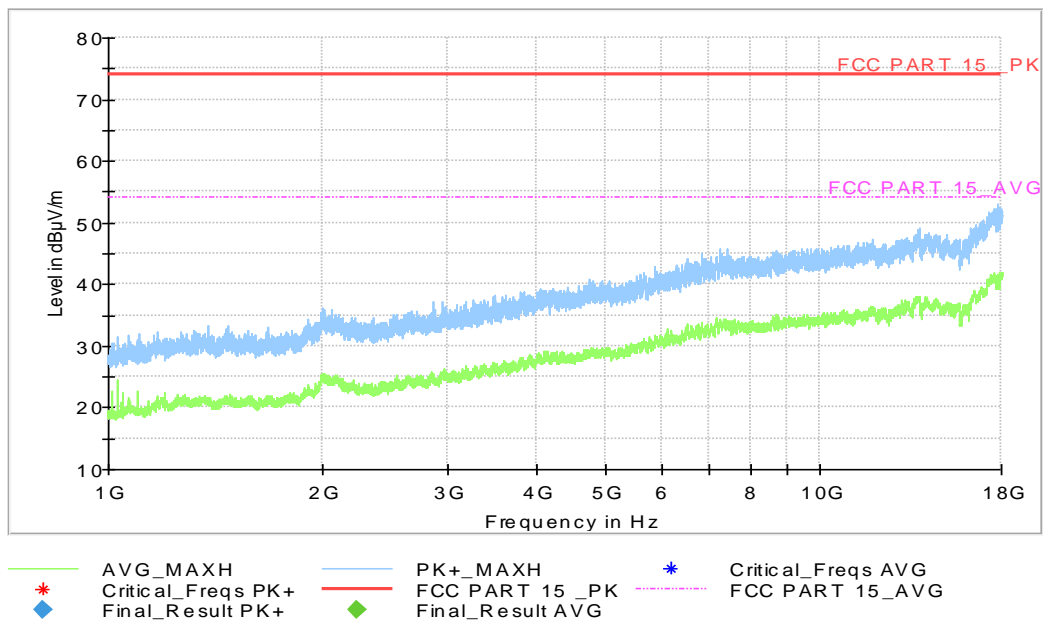
**Measurement results for Set.7, FM + LTE band 66 idle:**

RE FCC\_30MHz-1GHz\_10m\_Direct\_testing\_FP5b



**Fig A.13 Radiated Emission from 30MHz to 1GHz**

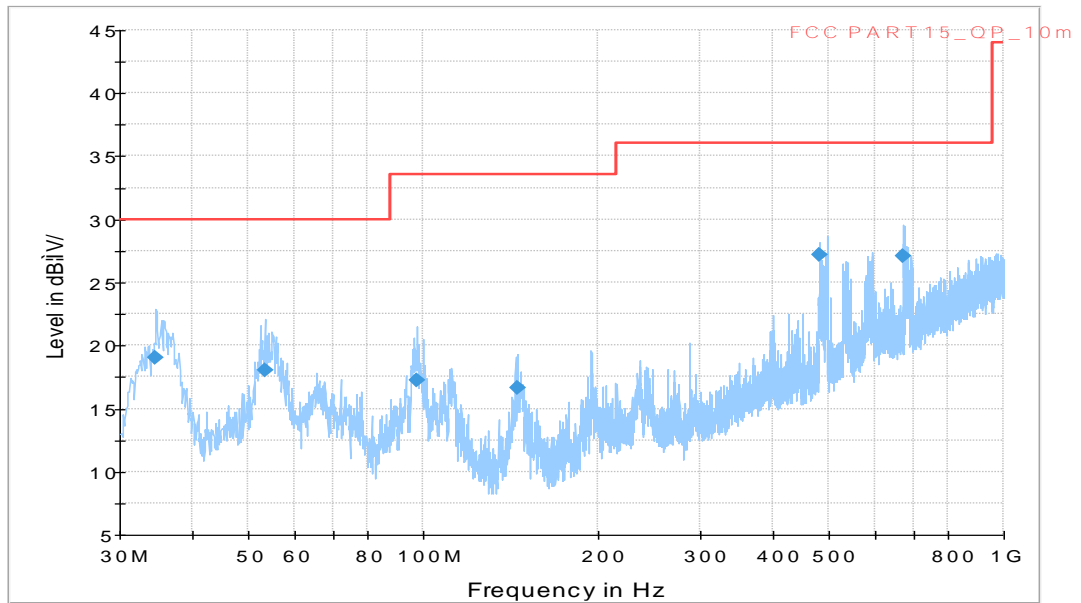
Full Spectrum



**Fig A.14 Radiated Emission from 1GHz to 18GHz**

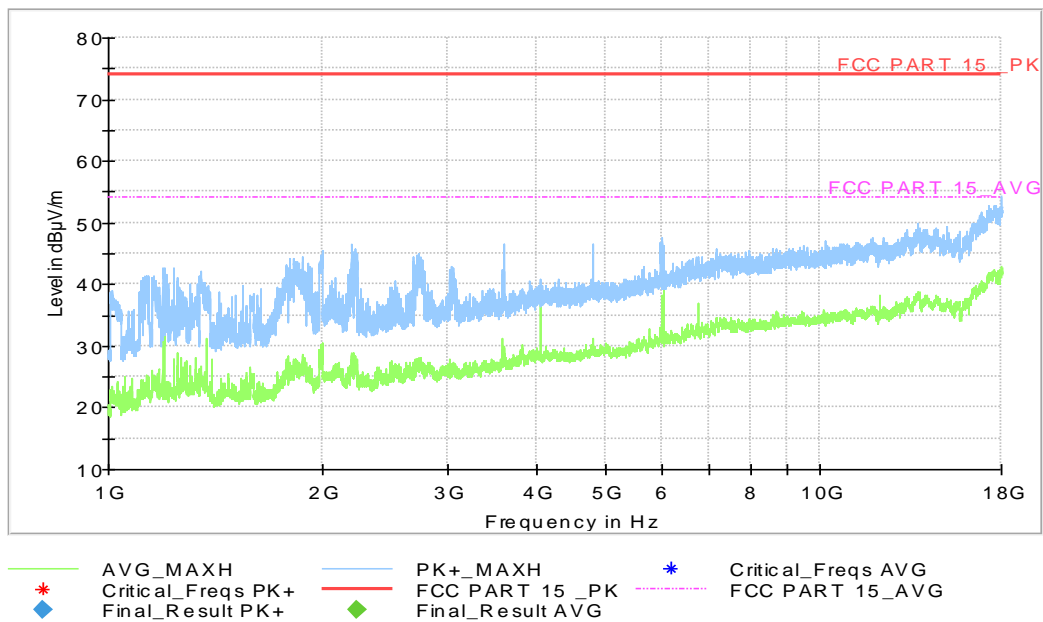
**Measurement results for Set.8, USB TO PC:**

RE FCC\_30MHz-1GHz\_10m\_Direct\_testing\_FP5b



**Fig A.15 Radiated Emission from 30MHz to 1GHz**

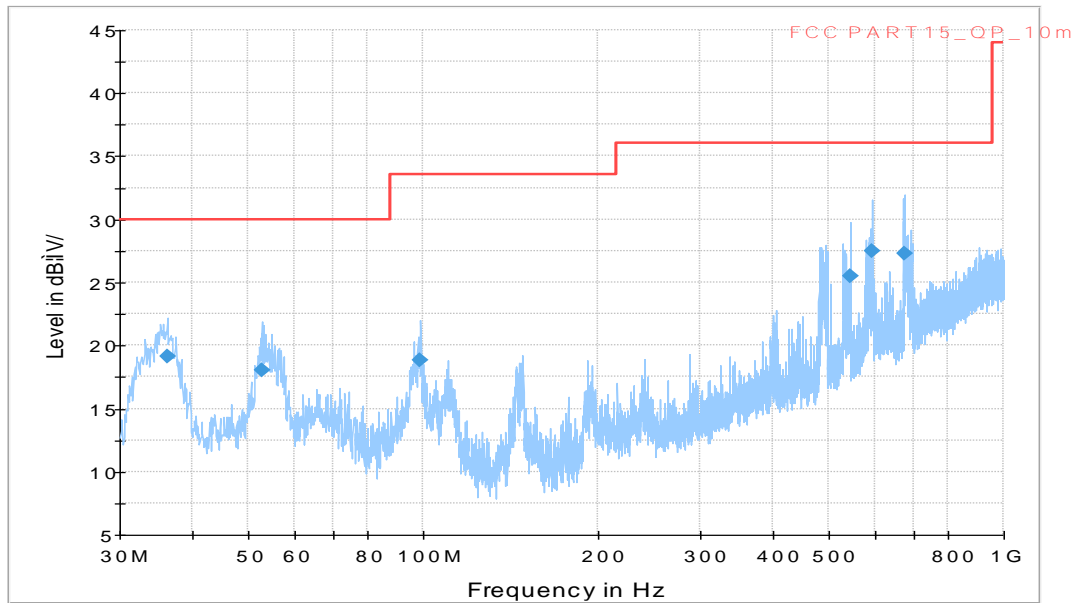
Full Spectrum



**Fig A.16 Radiated Emission from 1GHz to 18GHz**

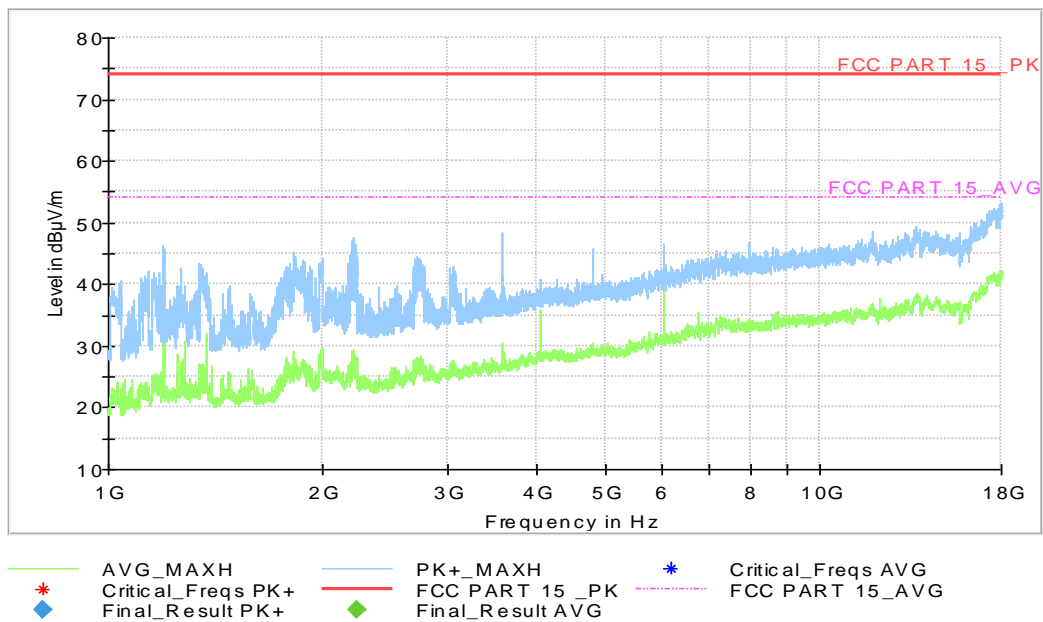
**Measurement results for Set.9, USB TO PC:**

RE FCC\_30MHz-1GHz\_10m\_Direct\_testing\_FP5b



**Fig A.17 Radiated Emission from 30MHz to 1GHz**

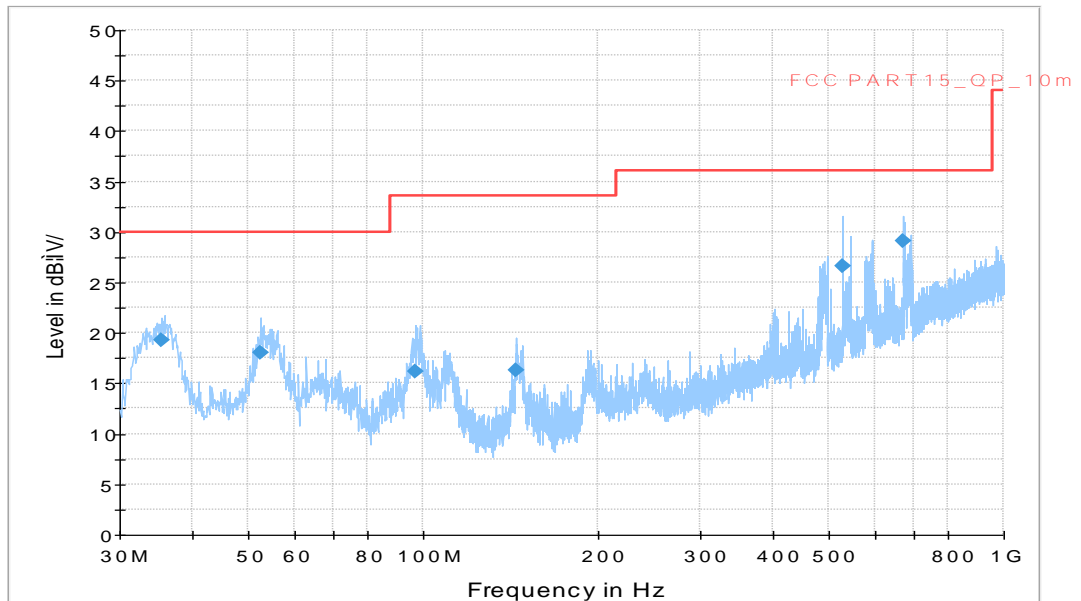
Full Spectrum



**Fig A.18 Radiated Emission from 1GHz to 18GHz**

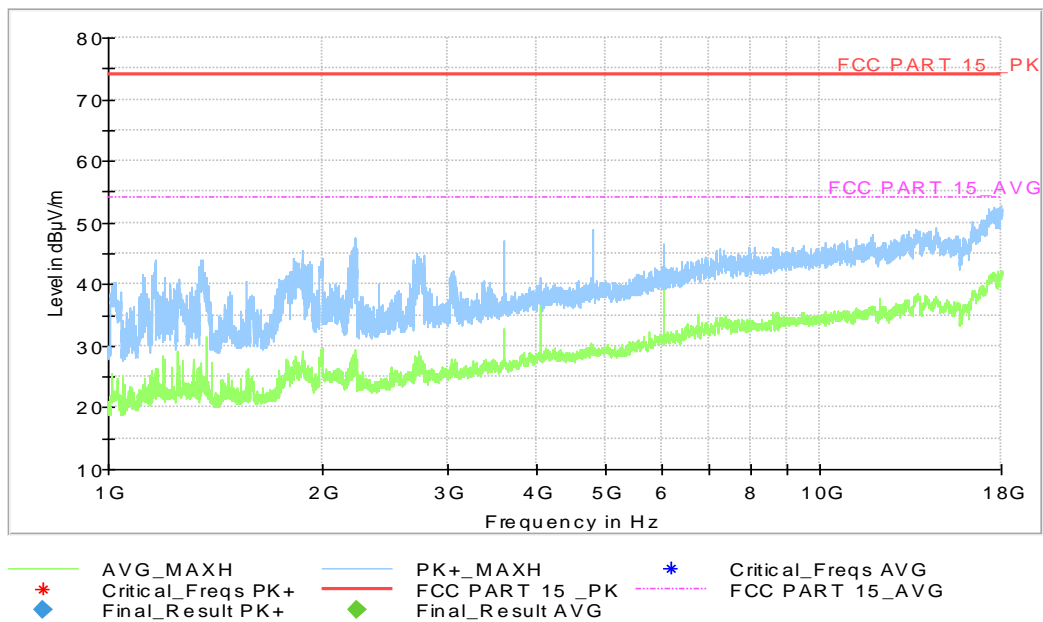
**Measurement results for Set.10, USB TO PC:**

RE FCC\_30MHz-1GHz\_10m\_Direct\_testing\_FP5b



**Fig A.19 Radiated Emission from 30MHz to 1GHz**

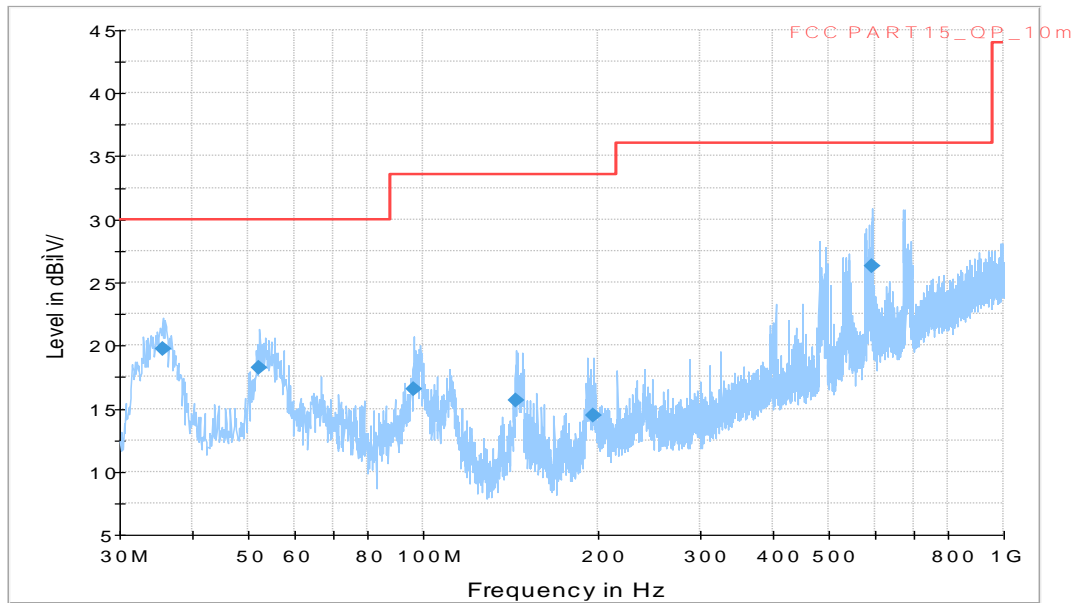
Full Spectrum



**Fig A.20 Radiated Emission from 1GHz to 18GHz**

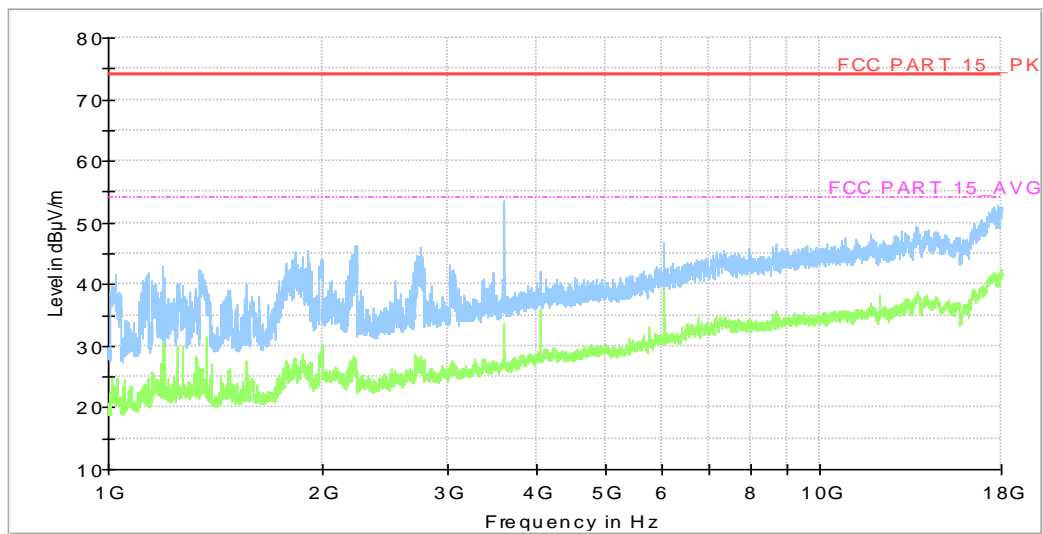
**Measurement results for Set.11, USB TO PC:**

RE FCC\_30MHz-1GHz\_10m\_Direct\_testing\_FP5b



**Fig A.21 Radiated Emission from 30MHz to 1GHz**

Full Spectrum

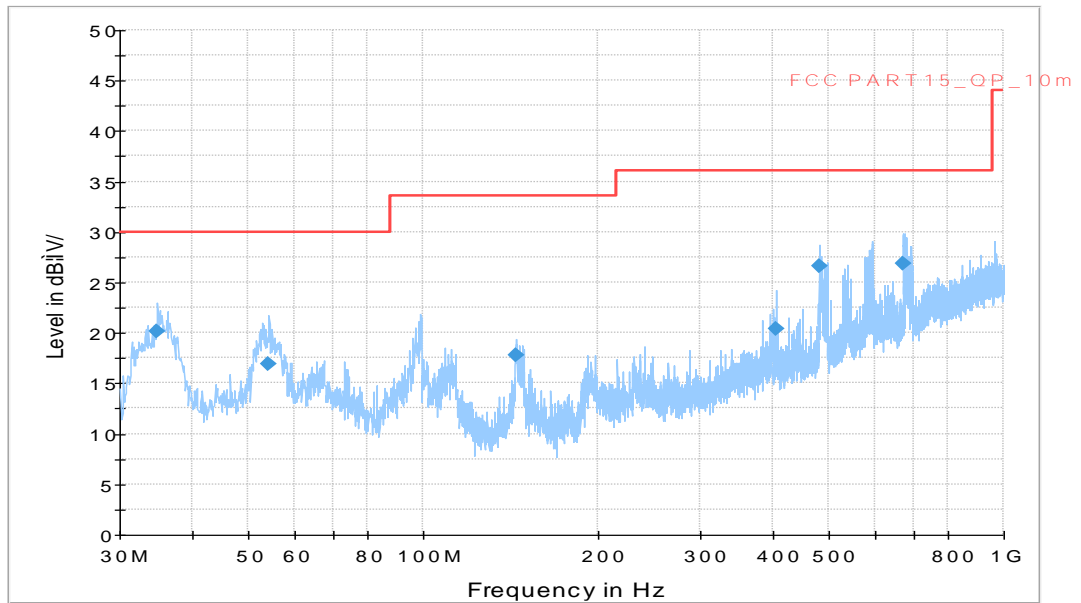


- AVG\_MAXH
- PK+\_MAXH
- \* Critical\_Freqs AVG
- \* Critical\_Freqs PK+
- FCC PART 15 \_PK
- - - FCC PART 15\_AVG
- ◆ Final\_Result PK+
- ◆ Final\_Result AVG

**Fig A.22 Radiated Emission from 1GHz to 18GHz**

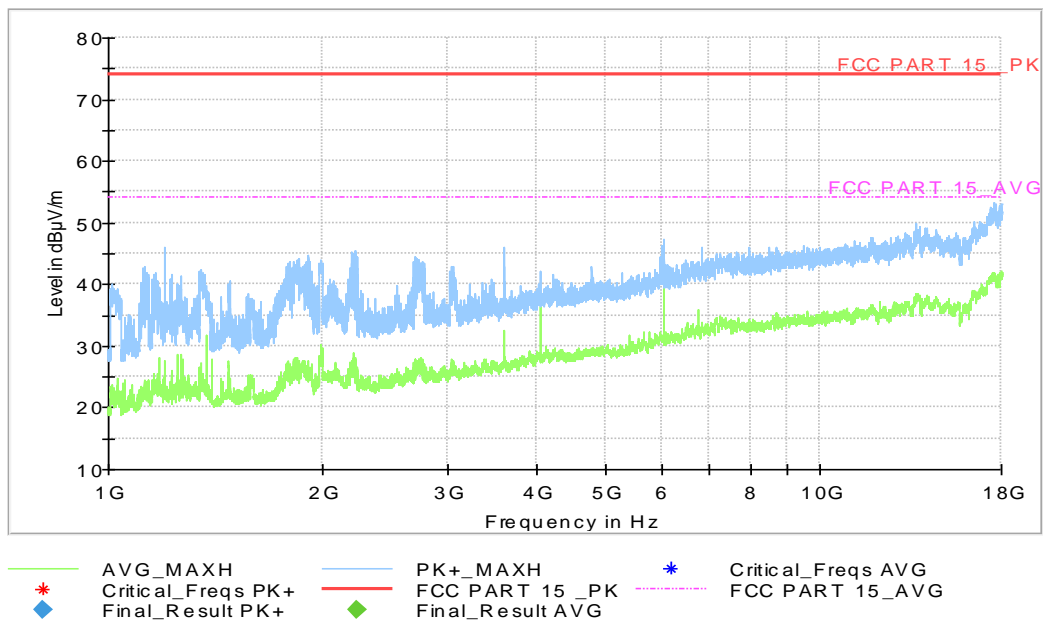
**Measurement results for Set.12, USB TO PC:**

RE FCC\_30MHz-1GHz\_10m\_Direct\_testing\_FP5b



**Fig A.23 Radiated Emission from 30MHz to 1GHz**

Full Spectrum



**Fig A.24 Radiated Emission from 1GHz to 18GHz**



Measurement results for Set.13, black screen:

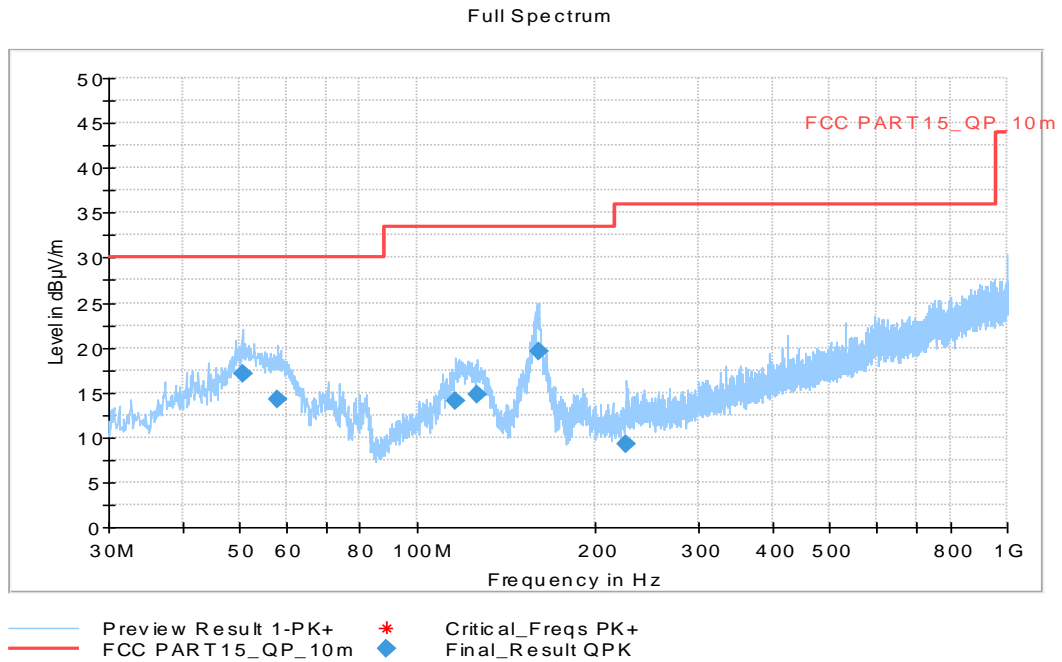


Fig A.25 Radiated Emission from 30MHz to 1GHz

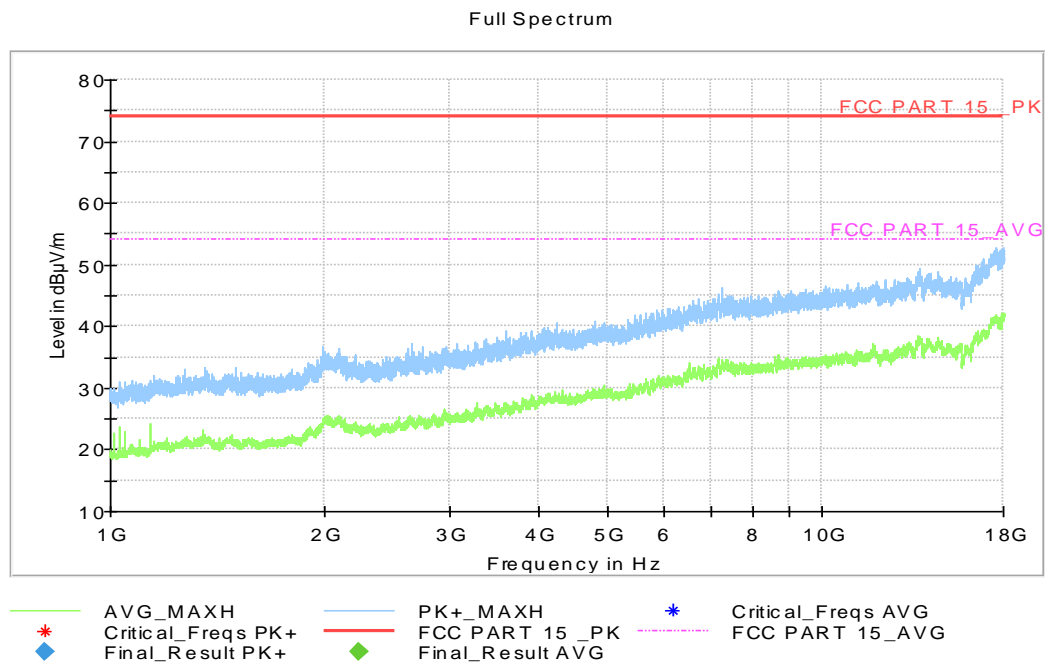


Fig A.26 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.14, USB TO PC:

Full Spectrum

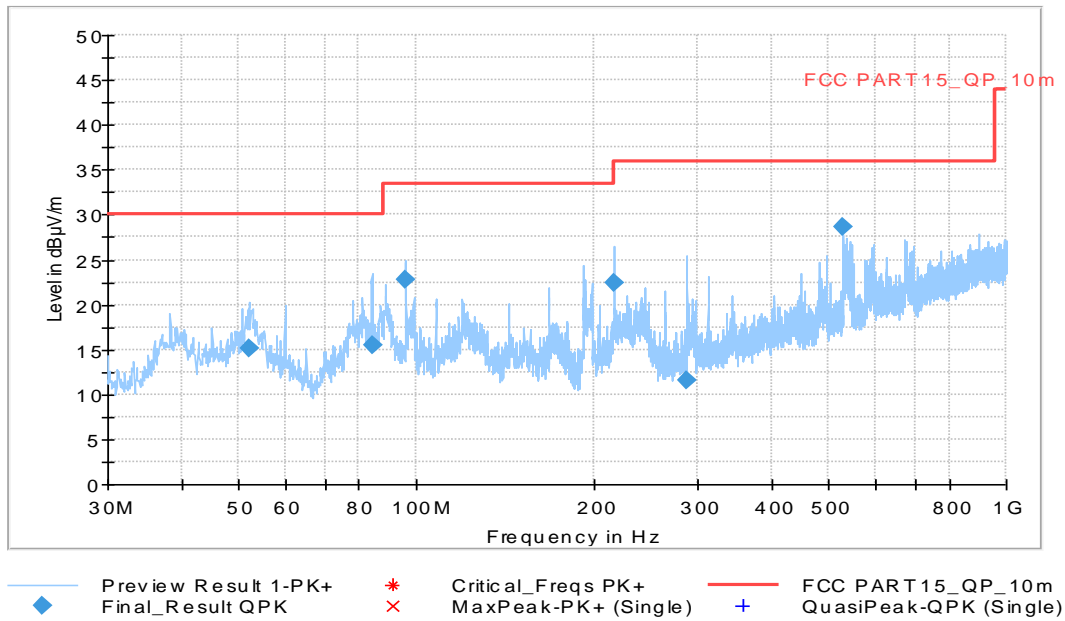


Fig A.27 Radiated Emission from 30MHz to 1GHz

Full Spectrum

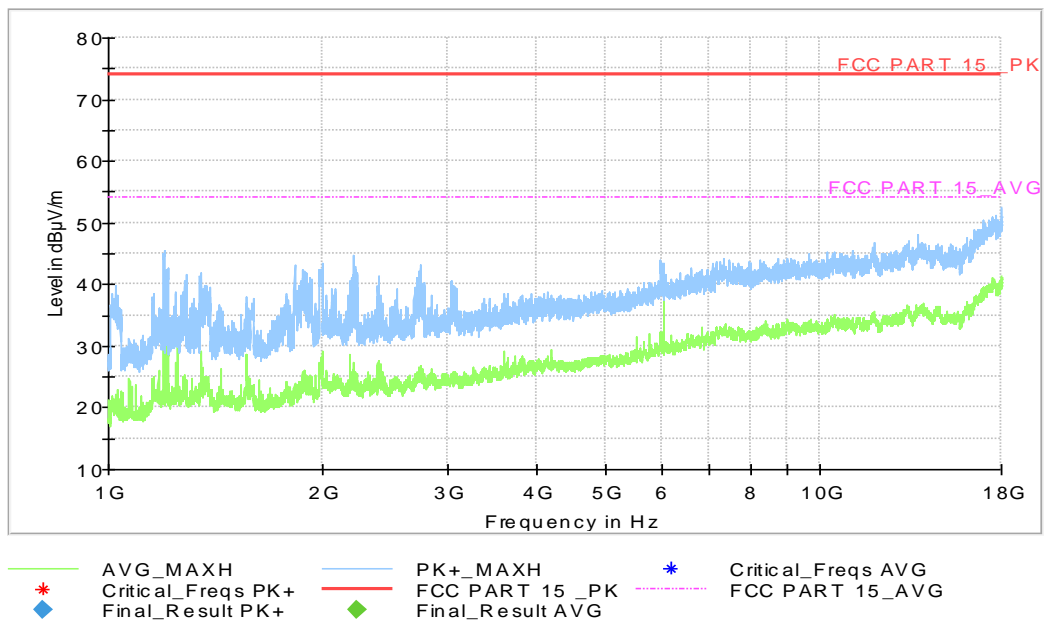
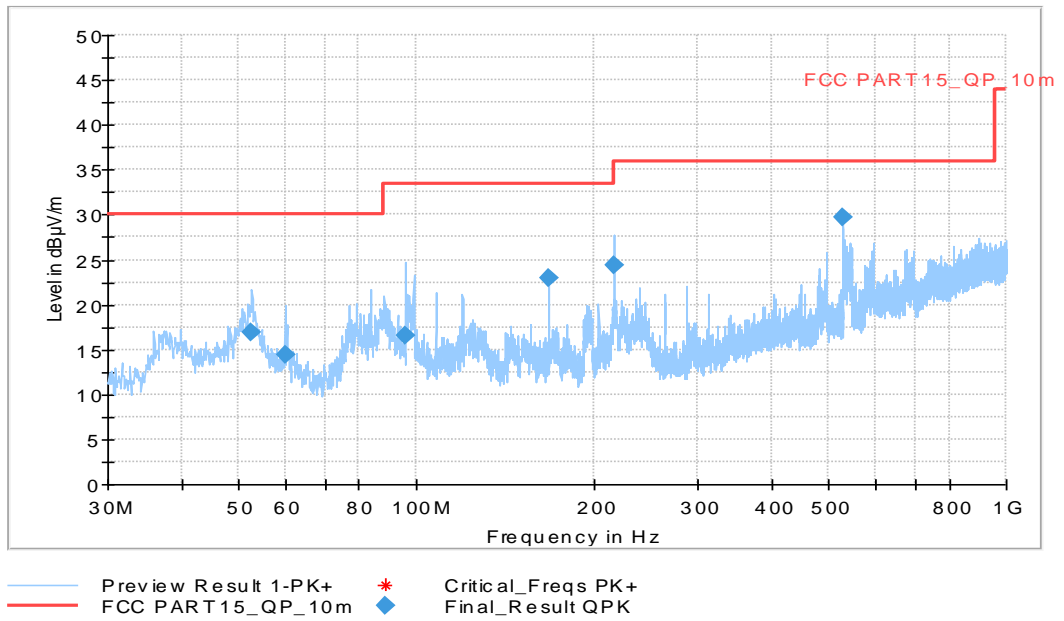


Fig A.28 Radiated Emission from 1GHz to 18GHz

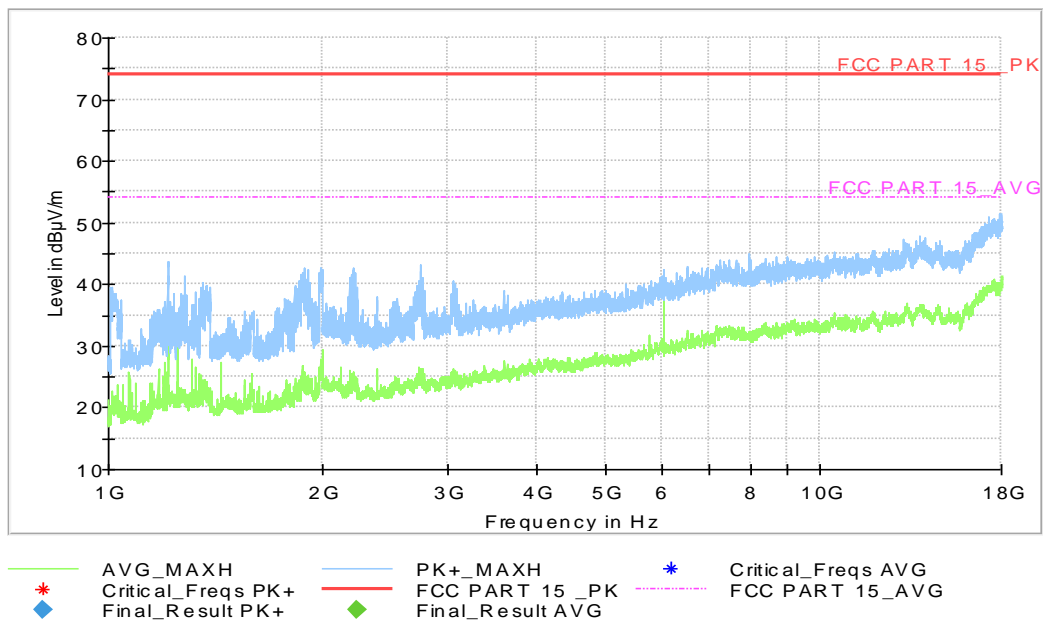
**Measurement results for Set.15, USB TO PC:**

Full Spectrum



**Fig A.29 Radiated Emission from 30MHz to 1GHz**

Full Spectrum



**Fig A.30 Radiated Emission from 1GHz to 18GHz**

## A.2 Conducted Emission

### Reference

FCC: CFR 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 150 kHz to 30 MHz 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

The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode. The model of the PC is DELL M4000E-17, and the serial number of the PC is M706GWXD. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

Note: I/O information: Printer – USB, Mouse – PS/2, Keyboard – USB.

### A.2.3 Measurement Limit

Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	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 Condition in charging mode

Voltage (V)	Frequency (Hz)
120	60

RBW/IF bandwidth	Sweep Time(s)
9kHz	1

### A.2.5 Measurement Results

Measurement uncertainty:  $U= 3.10$  dB,  $k=2$ .

Set.1, Real Camera + WCDMA 850MHz idle:

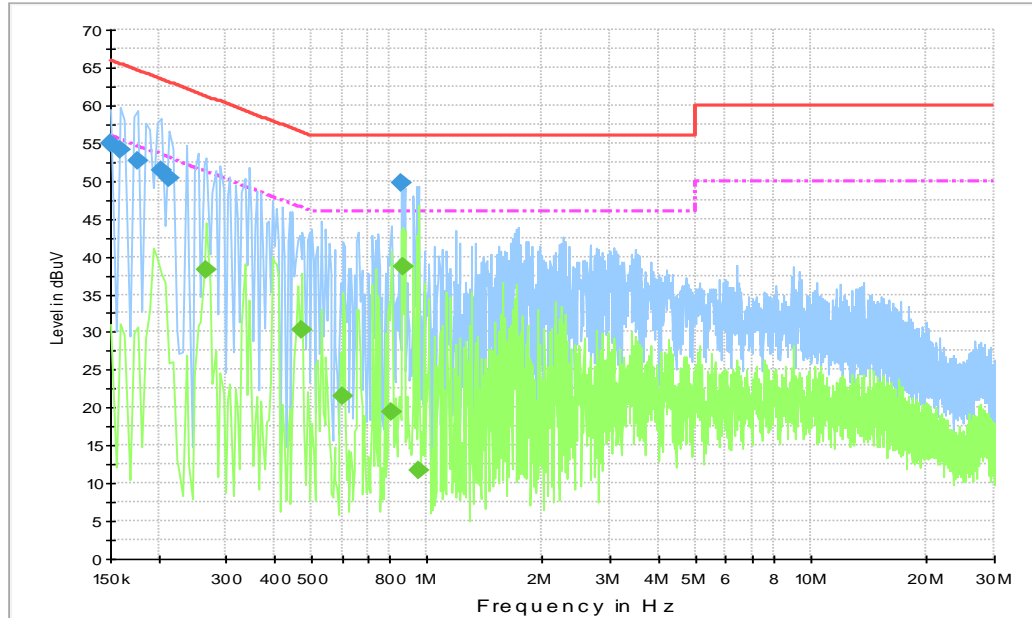


Fig A.31 Conducted Emission

#### Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	55.0	3000.0	9.000	On	L1	20.0	11.0	66.0
0.159000	54.1	3000.0	9.000	On	L1	19.9	11.4	65.5
0.177000	52.6	3000.0	9.000	On	L1	19.8	12.0	64.6
0.204000	51.4	3000.0	9.000	On	L1	19.7	12.0	63.4
0.213000	50.3	3000.0	9.000	On	L1	19.7	12.8	63.1
0.861000	49.7	3000.0	9.000	On	L1	19.7	6.3	56.0

#### Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.267000	38.2	3000.0	9.000	On	L1	19.8	13.0	51.2
0.474000	30.3	3000.0	9.000	On	L1	19.8	16.2	46.4
0.604500	21.5	3000.0	9.000	On	N	19.7	24.5	46.0
0.807000	19.3	3000.0	9.000	On	N	19.7	26.7	46.0
0.865500	38.6	3000.0	9.000	On	L1	19.7	7.4	46.0
0.951000	11.8	3000.0	9.000	On	N	19.7	34.2	46.0

Set.2, Real Camera + WCDMA 850MHz idle:

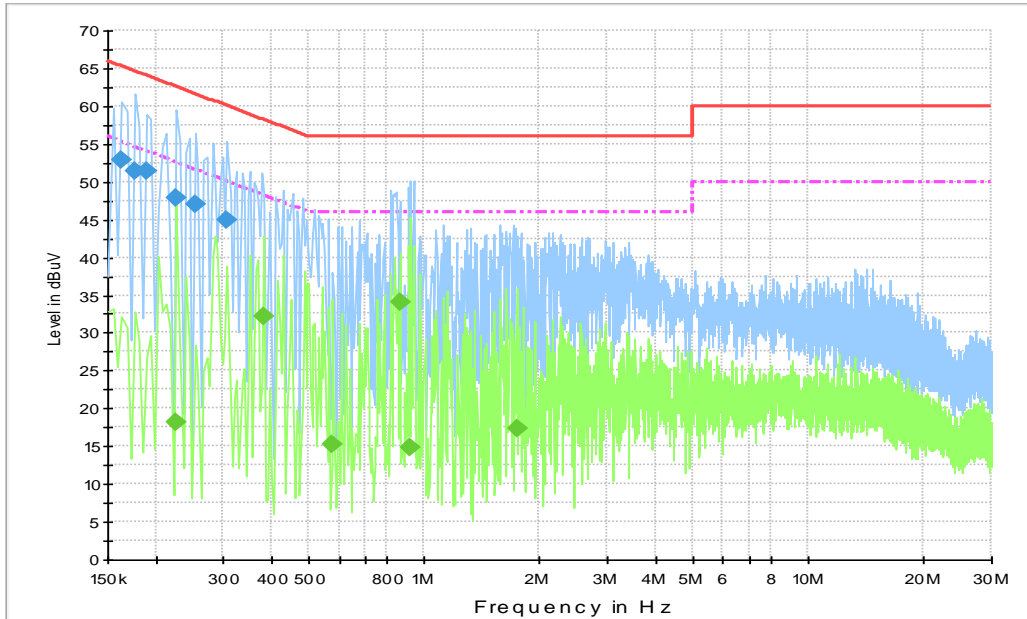


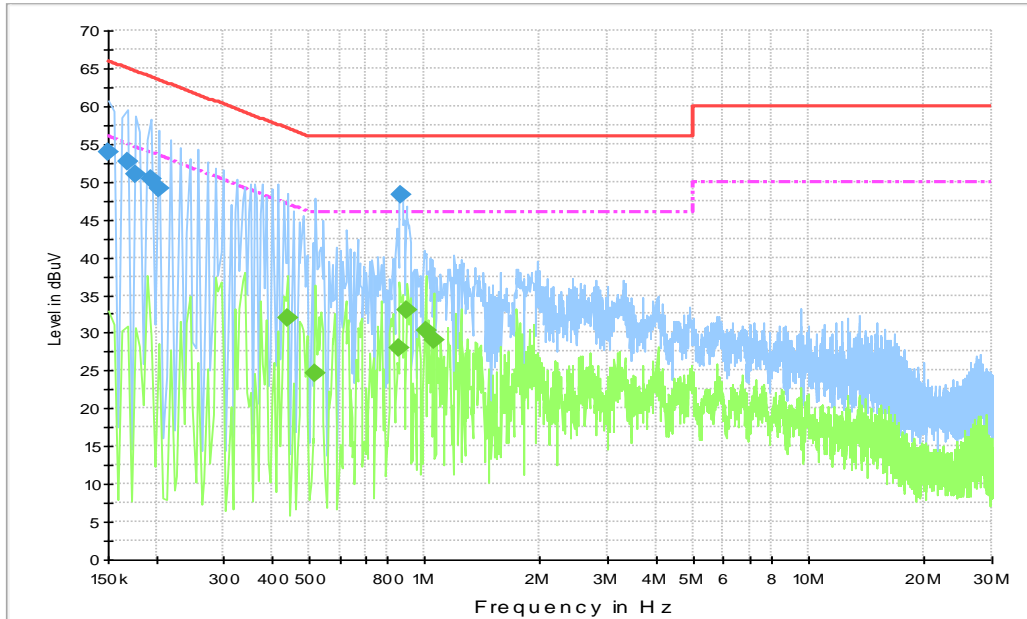
Fig A.32 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.163500	52.9	3000.0	9.000	On	L1	19.9	12.4	65.3
0.177000	51.4	3000.0	9.000	On	N	19.8	13.2	64.6
0.190500	51.3	3000.0	9.000	On	L1	19.8	12.7	64.0
0.226500	47.9	3000.0	9.000	On	N	19.8	14.6	62.6
0.253500	47.0	3000.0	9.000	On	N	19.8	14.6	61.6
0.307500	45.0	3000.0	9.000	On	N	19.8	15.1	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.226500	18.1	3000.0	9.000	On	N	19.8	34.5	52.6
0.384000	32.2	3000.0	9.000	On	L1	19.8	16.0	48.2
0.577500	15.2	3000.0	9.000	On	L1	19.8	30.8	46.0
0.865500	34.0	3000.0	9.000	On	L1	19.7	12.0	46.0
0.924000	14.8	3000.0	9.000	On	N	19.7	31.2	46.0
1.743000	17.4	3000.0	9.000	On	N	19.6	28.6	46.0

**Set.3, Front camera+ LTE band 5 idle:**

**Fig A.33 Conducted Emission**
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	53.9	3000.0	9.000	On	L1	20.0	12.1	66.0
0.168000	52.7	3000.0	9.000	On	L1	19.9	12.4	65.1
0.177000	51.0	3000.0	9.000	On	L1	19.8	13.6	64.6
0.195000	50.4	3000.0	9.000	On	L1	19.7	13.5	63.8
0.204000	49.0	3000.0	9.000	On	L1	19.7	14.4	63.4
0.870000	48.2	3000.0	9.000	On	L1	19.7	7.8	56.0

**Final Result 2**

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.438000	31.9	3000.0	9.000	On	L1	19.8	15.2	47.1
0.519000	24.7	3000.0	9.000	On	L1	19.8	21.3	46.0
0.861000	28.0	3000.0	9.000	On	N	19.7	18.0	46.0
0.901500	33.0	3000.0	9.000	On	L1	19.7	13.0	46.0
1.005000	30.4	3000.0	9.000	On	L1	19.7	15.6	46.0
1.054500	29.1	3000.0	9.000	On	L1	19.7	16.9	46.0

Set.4, Front camera + LTE band 12 idle:

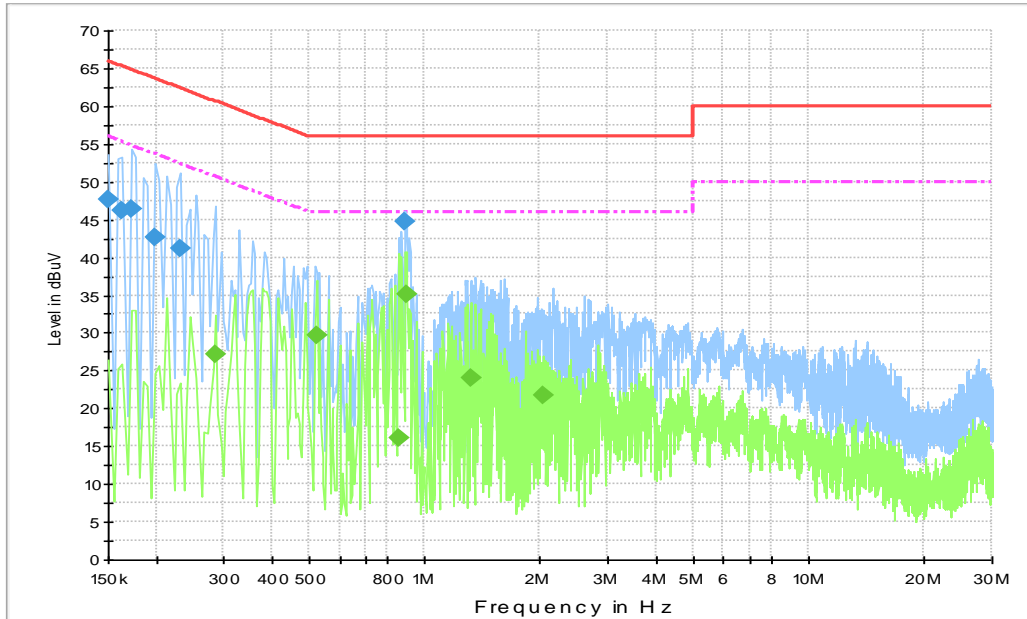


Fig A.34 Conducted Emission

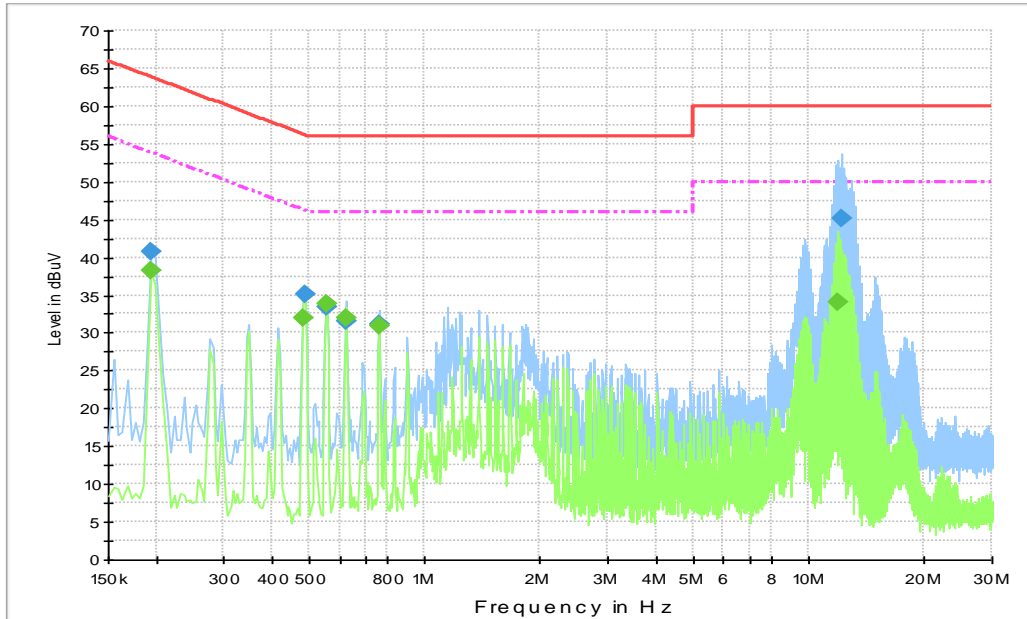
Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	47.7	3000.0	9.000	On	L1	20.0	18.3	66.0
0.163500	46.2	3000.0	9.000	On	L1	19.9	19.1	65.3
0.172500	46.3	3000.0	9.000	On	L1	19.9	18.5	64.8
0.199500	42.6	3000.0	9.000	On	L1	19.7	21.0	63.6
0.231000	41.1	3000.0	9.000	On	N	19.8	21.3	62.4
0.892500	44.6	3000.0	9.000	On	L1	19.6	11.4	56.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.285000	27.2	3000.0	9.000	On	L1	19.7	23.5	50.7
0.523500	29.7	3000.0	9.000	On	L1	19.8	16.3	46.0
0.856500	16.1	3000.0	9.000	On	N	19.7	29.9	46.0
0.897000	35.1	3000.0	9.000	On	L1	19.7	10.9	46.0
1.315500	24.0	3000.0	9.000	On	L1	19.6	22.0	46.0
2.040000	21.7	3000.0	9.000	On	L1	19.6	24.3	46.0

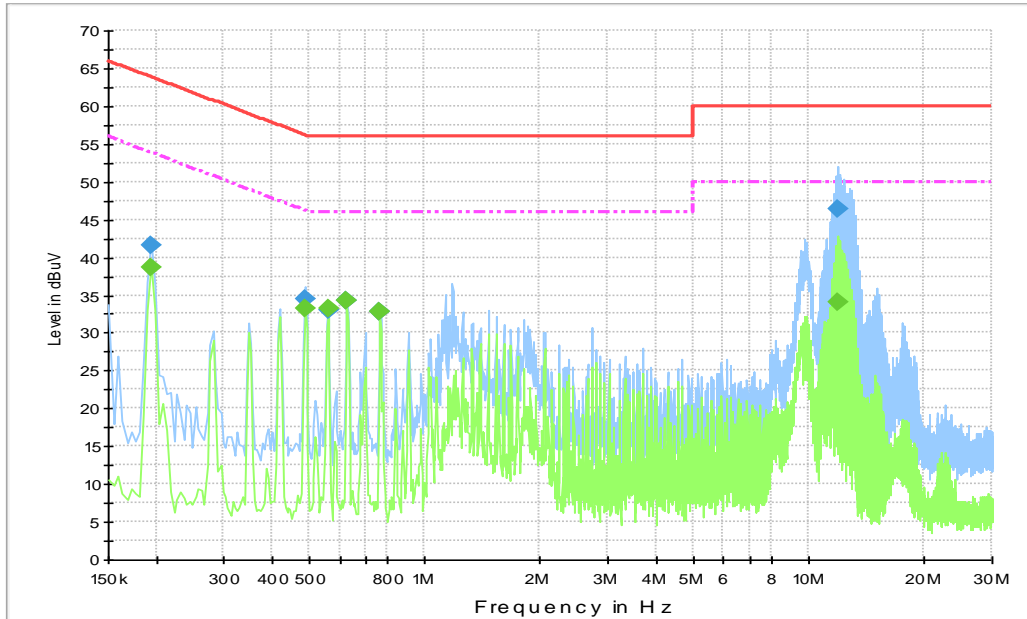


**Set.8, USB TO PC:**

**Fig A.35 Conducted Emission**
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	40.8	3000.0	9.000	On	N	19.7	23.0	63.8
0.487500	35.2	3000.0	9.000	On	L1	19.8	21.0	56.2
0.555000	33.5	3000.0	9.000	On	N	19.8	22.5	56.0
0.622500	31.5	3000.0	9.000	On	N	19.7	24.5	56.0
0.762000	31.1	3000.0	9.000	On	L1	19.7	24.9	56.0
12.174000	45.1	3000.0	9.000	On	N	19.8	14.9	60.0

**Final Result 2**

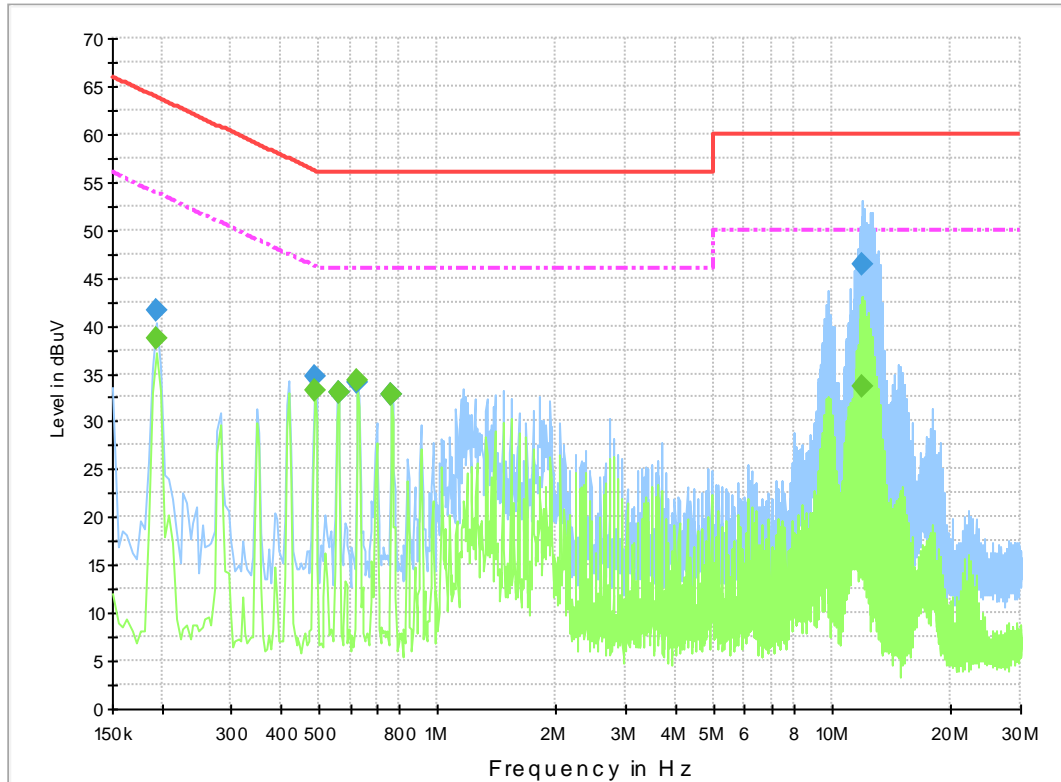
Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	38.1	3000.0	9.000	On	L1	19.7	15.7	53.8
0.483000	32.0	3000.0	9.000	On	L1	19.8	14.3	46.3
0.555000	33.8	3000.0	9.000	On	N	19.8	12.2	46.0
0.622500	31.9	3000.0	9.000	On	L1	19.7	14.1	46.0
0.762000	30.9	3000.0	9.000	On	N	19.7	15.1	46.0
11.890500	34.0	3000.0	9.000	On	N	19.8	16.0	50.0

**Set.9, USB TO PC:**

**Fig A.36 Conducted Emission**
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	41.5	3000.0	9.000	On	L1	19.7	22.3	63.8
0.487500	34.5	3000.0	9.000	On	N	19.8	21.7	56.2
0.559500	33.0	3000.0	9.000	On	N	19.8	23.0	56.0
0.627000	34.2	3000.0	9.000	On	N	19.7	21.8	56.0
0.766500	32.9	3000.0	9.000	On	L1	19.7	23.1	56.0
11.922000	46.3	3000.0	9.000	On	L1	19.8	13.7	60.0

**Final Result 2**

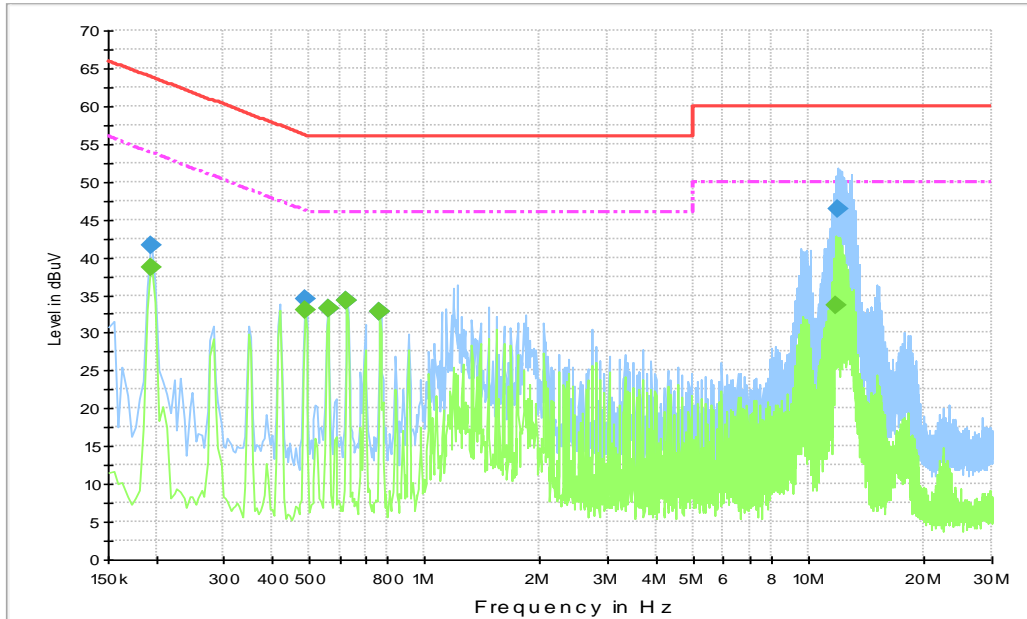
Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	38.7	3000.0	9.000	On	N	19.7	15.1	53.8
0.487500	33.2	3000.0	9.000	On	N	19.8	13.0	46.2
0.559500	33.2	3000.0	9.000	On	N	19.8	12.8	46.0
0.627000	34.3	3000.0	9.000	On	N	19.7	11.7	46.0
0.766500	32.9	3000.0	9.000	On	N	19.7	13.1	46.0
11.908500	34.1	3000.0	9.000	On	L1	19.8	15.9	50.0

**Set.10, USB TO PC:**

**Fig A.37 Conducted Emission**
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	41.5	3000.0	9.000	On	L1	19.7	22.3	63.8
0.487500	34.6	3000.0	9.000	On	L1	19.8	21.6	56.2
0.559500	32.9	3000.0	9.000	On	N	19.8	23.1	56.0
0.627000	34.1	3000.0	9.000	On	L1	19.7	21.9	56.0
0.766500	32.8	3000.0	9.000	On	L1	19.7	23.2	56.0
11.859000	46.4	3000.0	9.000	On	L1	19.8	13.6	60.0

**Final Result 2**

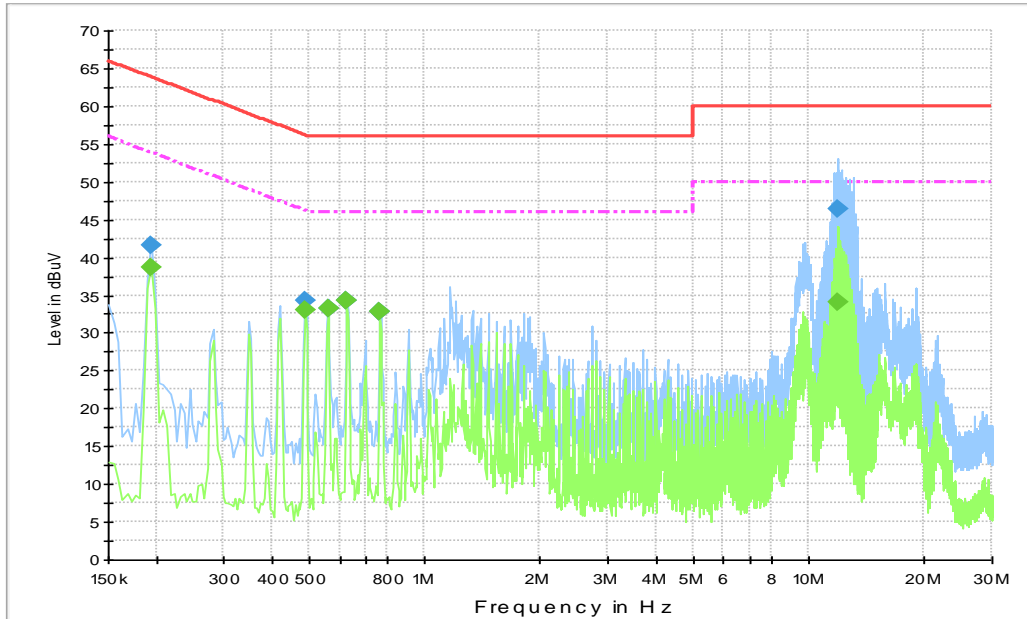
Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	38.7	3000.0	9.000	On	L1	19.7	15.1	53.8
0.487500	33.2	3000.0	9.000	On	N	19.8	13.0	46.2
0.559500	33.1	3000.0	9.000	On	L1	19.8	12.9	46.0
0.627000	34.3	3000.0	9.000	On	L1	19.7	11.7	46.0
0.766500	32.9	3000.0	9.000	On	L1	19.7	13.1	46.0
11.859000	33.7	3000.0	9.000	On	N	19.8	16.3	50.0

**Set.11, USB TO PC:**

**Fig A.38 Conducted Emission**
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	41.5	3000.0	9.000	On	L1	19.7	22.3	63.8
0.487500	34.5	3000.0	9.000	On	L1	19.8	21.7	56.2
0.559500	33.1	3000.0	9.000	On	N	19.8	22.9	56.0
0.627000	34.4	3000.0	9.000	On	N	19.7	21.6	56.0
0.766500	32.8	3000.0	9.000	On	L1	19.7	23.2	56.0
11.958000	46.4	3000.0	9.000	On	N	19.8	13.6	60.0

**Final Result 2**

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	38.7	3000.0	9.000	On	N	19.7	15.1	53.8
0.487500	33.1	3000.0	9.000	On	N	19.8	13.1	46.2
0.559500	33.2	3000.0	9.000	On	N	19.8	12.8	46.0
0.627000	34.3	3000.0	9.000	On	L1	19.7	11.7	46.0
0.766500	32.9	3000.0	9.000	On	N	19.7	13.1	46.0
11.827500	33.6	3000.0	9.000	On	L1	19.8	16.4	50.0

**Set.12, USB TO PC:**

**Fig A.39 Conducted Emission**
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	41.5	3000.0	9.000	On	L1	19.7	22.3	63.8
0.487500	34.2	3000.0	9.000	On	N	19.8	22.0	56.2
0.559500	33.2	3000.0	9.000	On	N	19.8	22.8	56.0
0.627000	34.2	3000.0	9.000	On	L1	19.7	21.8	56.0
0.766500	32.7	3000.0	9.000	On	L1	19.7	23.3	56.0
11.908500	46.4	3000.0	9.000	On	L1	19.8	13.6	60.0

**Final Result 2**

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	38.7	3000.0	9.000	On	N	19.7	15.1	53.8
0.487500	32.9	3000.0	9.000	On	N	19.8	13.3	46.2
0.559500	33.3	3000.0	9.000	On	N	19.8	12.7	46.0
0.627000	34.2	3000.0	9.000	On	N	19.7	11.8	46.0
0.766500	32.8	3000.0	9.000	On	L1	19.7	13.2	46.0
11.908500	34.0	3000.0	9.000	On	L1	19.8	16.0	50.0

Set.13, black screen:

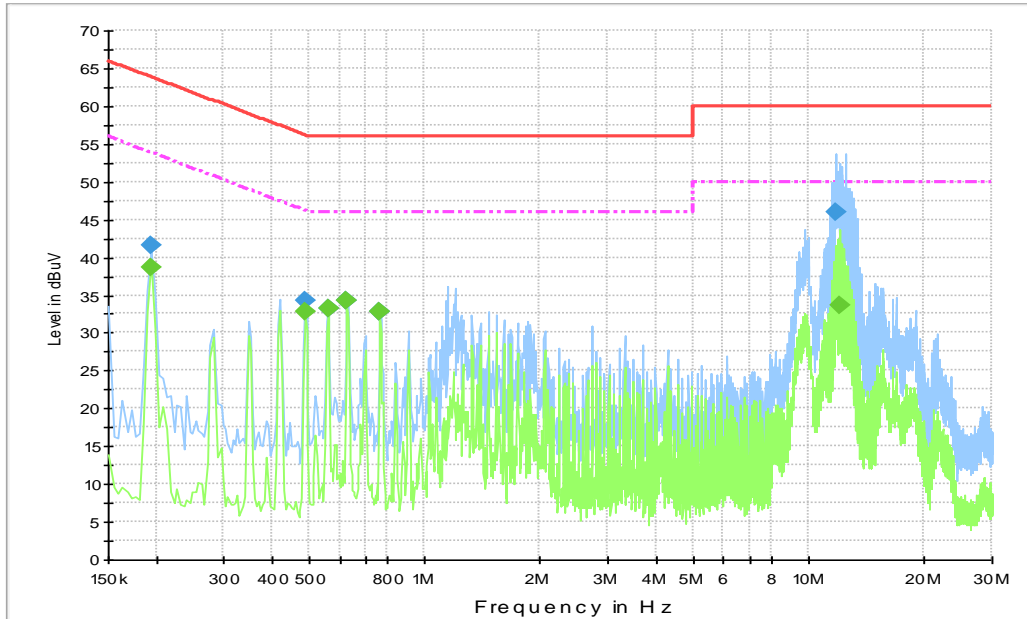


Fig A.40 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	41.5	3000.0	9.000	On	L1	19.7	22.3	63.8
0.487500	34.2	3000.0	9.000	On	N	19.8	22.0	56.2
0.559500	33.1	3000.0	9.000	On	L1	19.8	22.9	56.0
0.627000	34.2	3000.0	9.000	On	N	19.7	21.8	56.0
0.766500	32.7	3000.0	9.000	On	N	19.7	23.3	56.0
11.832000	46.1	3000.0	9.000	On	N	19.8	13.9	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	38.7	3000.0	9.000	On	L1	19.7	15.1	53.8
0.487500	32.9	3000.0	9.000	On	N	19.8	13.3	46.2
0.559500	33.3	3000.0	9.000	On	N	19.8	12.7	46.0
0.627000	34.2	3000.0	9.000	On	N	19.7	11.8	46.0
0.766500	32.7	3000.0	9.000	On	L1	19.7	13.3	46.0
11.985000	33.6	3000.0	9.000	On	N	19.8	16.4	50.0



**ANNEX B: PERSONS INVOLVED IN THIS TESTING**

<b>Test Item</b>	<b>Test operator</b>
Conducted Emission	Yan Xiaorui
Radiated Emission	Li Pengfei & Yan Hanchen & Ding Zai

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