



# TEST REPORT

No.I16N01454-EMC

for

**Huawei Technologies Co.,Ltd.**

**Smartphone**

**Model Name: MYA-L11**

**FCC ID: QISMYA-L11**

with

**Hardware Version: VER.A**

**Software Version: Maya-L11C432B017**

**Issued Date: 2017-01-10**

**Test Laboratory:**

*FCC 2.948 Listed: No.342690*

**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 CTTL.

**Test Laboratory:**

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I16N01454-EMC01	Rev.0	1st edition	2017-01-10



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## 1. Test Laboratory

### 1.1. Testing Location

Address: TCL International E city No. 1001 Zhongshanyuan Road, Nanshan District, Shenzhen, Guangdong, China  
Postal Code: 518048  
Telephone: +86(755)33322000  
Fax: +86(755)33322001

### 1.2. Testing Environment

Normal Temperature: 15-35°C  
Relative Humidity: 20-75%

### 1.3. Project data

Testing Start Date: 2016-12-05  
Testing End Date: 2016-12-30

### 1.4. Signature

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Du Zhaoxuan  
(Prepared this test report)

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Zhang Yunzhan  
(Reviewed this test report)

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Cao Junfei  
Director of the laboratory  
(Approved this test report)



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: Huawei Technologies Co.,Ltd.  
Address: Administration Building, Headquarters of Huawei Technologies Co.,  
Ltd., Bantian, Longgang District Shenzhen China

### **2.2. Manufacturer Information**

Company Name: Huawei Technologies Co.,Ltd.  
Address: Administration Building, Headquarters of Huawei Technologies Co.,  
Ltd., Bantian, Longgang District Shenzhen China

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

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

Description	Smartphone
Model Name	MYA-L11
FCC ID	QISMYA-L11

The Equipment Under Test (EUT) are a model of Smartphone with integrated antenna.

The EUT supports GPRS service and EGPRS service. It has MP3, camera, USB memory, FM radio, GPS receiver, Bluetooth and WLAN functions.

Remark: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed information.

#### **3.2. Internal Identification of EUT**

<b>EUT ID*</b>	<b>SN or IMEI</b>
EUT1	862665030015132
EUT2	862665030015280
EUT3	862665030014812
EUT4	862665030015272

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

#### **3.3. Internal Identification of AE**

<b>AE ID*</b>	<b>Description</b>	<b>SN</b>
AE1	Battery	/
AE2	Travel charger	/
AE3	USB cable	/
<b>AE1-1</b>		
Model	HB405979ECW	
Manufacturer	Sunwoda Electronic Co., LTD.	
Capacitance	2920mAh	
Nominal Voltage	3.82V	
IMEI	862665030015132	
<b>AE1-2</b>		
Model	HB405979ECW	
Manufacturer	SCUD (FUJIAN) Electronics Co., Ltd.	
Capacitance	2920mAh	
Nominal Voltage	3.82V	
Chip	Coslight electric core	
IMEI	862665030015280	



AE1-3

Model HB405979ECW  
Manufacturer SCUD (FUJIAN) Electronics Co., Ltd.  
Capacitance 2920mAh  
Nominal Voltage 3.82V  
Chip LG electric core  
IMEI 862665030014812

AE1-4

Model HB405979ECW  
Manufacturer Huizhou Desay Battery Co., Ltd.  
Capacitance 2920mAh  
Nominal Voltage 3.82V  
IMEI 862665030015272

AE2-1

Model HW-050200U01  
Manufacturer Shenzhen Huntkey Electric Co., Ltd.  
SN H786K3G6F32596

AE2-2

Model HW-050200U01  
Manufacturer Dongguan Phitek Electronics Co., Ltd  
SN P78613G5611897

AE2-3

Model HW-050200U01  
Manufacturer HUIZHOU BYD ELECTRONIC CO., LTD.  
SN B78690G6802733

AE3-1

Model CD-U0405-1143  
Manufacturer CONNREX (SHEN ZHEN) INDUSTRIAL,LTD

AE3-2

Model CUBB01M-HC304-DH  
Manufacturer FOXCONN INTERCONNECT TECHNOLOGY LIMITED.

AE3-3

Model L99U2017-CS-H  
Manufacturer Luxshare Precision industry Co., Ltd

AE3-4

Model H09-000577  
Manufacturer SHEN ZHEN PANG NGAI INDUSTRIAL CO.,LTD



AE3-5

Model

130-26669

Manufacturer

HONGLIN TECHNOLOGY CO.,LTD.

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

### 3.4. EUT set-ups

<b>EUT set-up No.</b>	<b>Combination of EUT and AE</b>	<b>Remarks</b>
Set.1	EUT1+ AE1-1 + AE2-1+ AE3-1	Charging mode
Set.2	EUT1+ AE1-1 + AE2-2+ AE3-2	Charging mode
Set.3	EUT1+ AE1-1 + AE2-3+ AE3-3	Charging mode
Set.4	EUT1+ AE1-1 + AE2-1+ AE3-4	Charging mode
Set.5	EUT1+ AE1-1 + AE2-2+ AE3-5	Charging mode
Set.6	EUT2+ AE1-2 + AE2-1+ AE3-1	Charging mode
Set.7	EUT2+ AE1-2+ AE2-2+ AE3-2	Charging mode
Set.8	EUT2+ AE1-2 + AE2-3+ AE3-3	Charging mode
Set.9	EUT2+ AE1-2 + AE2-1+ AE3-4	Charging mode
Set.10	EUT2+ AE1-2 + AE2-2+ AE3-5	Charging mode
Set.11	EUT3+ AE1-3 + AE2-1+ AE3-1	Charging mode
Set.12	EUT3+ AE1-3+ AE2-2+ AE3-2	Charging mode
Set.13	EUT3+ AE1-3 + AE2-3+ AE3-3	Charging mode
Set.14	EUT3+ AE1-3 + AE2-1+ AE3-4	Charging mode
Set.15	EUT3+ AE1-3 + AE2-2+ AE3-5	Charging mode
Set.16	EUT4+ AE1-4 + AE2-1+ AE3-1	Charging mode
Set.17	EUT4+ AE1-4 + AE2-2+ AE3-2	Charging mode
Set.18	EUT4+ AE1-4 + AE2-3+ AE3-3	Charging mode
Set.19	EUT4+ AE1-4 + AE2-1+ AE3-4	Charging mode
Set.20	EUT4+ AE1-4 + AE2-2+ AE3-5	Charging mode
Set.21	EUT1+ AE1-1 + AE3-1	USB mode
Set.22	EUT2+ AE1-2 + AE3-2	USB mode
Set.23	EUT3+ AE1-3 + AE3-3	USB mode
Set.24	EUT4+ AE1-4 + AE3-4	USB mode
Set.25	EUT1+ AE1-1 + AE3-5	USB mode

#### **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	10-1-2015 Edition
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

## 5. LABORATORY ENVIRONMENT

**Semi-anechoic chamber** did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-18000MHz,>90dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
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 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-10000MHz,>90dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω

**Fully-anechoic chamber** did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-18000MHz,>90dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz



## 6. SUMMARY OF TEST RESULTS

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

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



## 7. Test Facilities Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CALDUE DATE	CAL PERIOD
1.	Test Receiver	ESCI	100701	R&S	2017.08.09	1 year
2.	Test Receiver	ESR7	101675	R&S	2017.07.21	1 year
3.	Spectrum Analyzer	FSP 40	100378	R&S	2017.12.15	1 year
4.	BiLog Antenna	VULB9163	9163 330	Schwarzbeck	2017.04.22	3 years
5.	LISN	ESH2-Z5	100196	R&S	2017.01.12	1 year
6.	Horn Antenna	3117	00066585	ETS-Lindgren	2019.03.05	3 years
7.	Universal Radio Communication Tester	E5515C	GB44051324	Agilent	2017.05.18	1 year
8.	PC	2OET-A00DC D	PF-OIYDAK	Lenovo	/	/
9.	Printer	P1008	VNF6C12491	HP	/	/
10.	Mouse	MO28UOL	44B39412	Lenovo	/	/
11.	Chamber	FACT5-2.0	4166	ETS-Lindgren	2018.05.13	3 years

## **ANNEX A: MEASUREMENT RESULTS**

### **A.1 Radiated Emission (§15.109(a))**

#### **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 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:**

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 Lenovo 2OET-A00DCD, and the serial number of the PC is PF-OIYDAK. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

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

Limit from CFR Part 15.109(a)

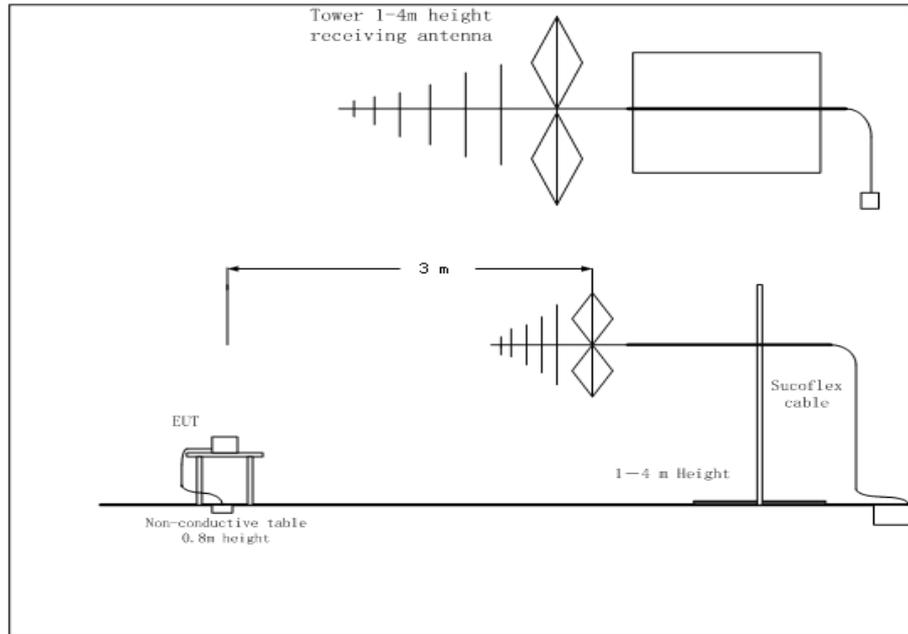
Frequency range (MHz)	Field strength limit ( $\mu\text{V}/\text{m}$ )		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

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

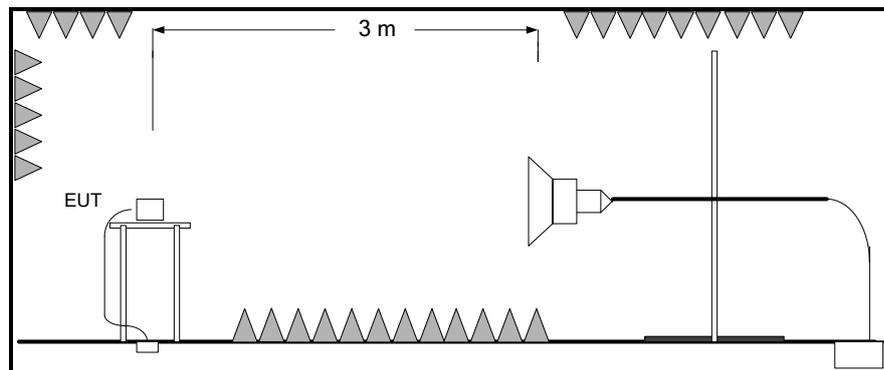
#### **A.1.4 Test Condition**

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

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



**1GHz-18GHz**



### A.1.6 Measurement Results

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

The measurement results are obtained as described below:

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

Where

$G_A$ : Antenna factor of receive antenna

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

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

Note: the result contains vertical part and Horizontal part

**RE Measurement uncertainty:** 30M-1GHz: 5.12dB (k=2);  
1GHz-18GHz: 4.48 dB (k=2)

#### Set.1 Charging mode / Peak detector

Frequency(MHz)	Result(dBuV/m)	Polarit y	$P_{\text{Mea}}$ (dB $\mu$ V)	$A_{\text{Rpl}}$ (dB)	Margin(dB)	Limit (dB $\mu$ V/m)
14516.000000	54.89	V	43.09	11.8	19.11	74.00
15182.000000	55.80	V	43.6	12.2	18.20	74.00
15638.500000	57.38	V	44.78	12.6	16.62	74.00
16221.500000	57.37	V	44.27	13.1	16.63	74.00
16692.500000	58.64	H	44.84	13.8	15.36	74.00
17287.000000	57.48	H	43.58	13.9	16.52	74.00

#### Set.1 Charging mode / Average detector

Frequency(MHz)	Result(dBuV/m)	Polarity	$P_{\text{Mea}}$ (dB $\mu$ V)	$A_{\text{Rpl}}$ (dB)	Margin(dB)	Limit (dB $\mu$ V/m)
14535.000000	43.40	H	31.5	11.9	10.60	54.00
15144.500000	44.25	V	32.15	12.1	9.75	54.00
15741.500000	45.50	V	32.7	12.8	8.50	54.00
16195.500000	46.13	V	33.03	13.1	7.87	54.00
16729.500000	46.50	V	32.7	13.8	7.50	54.00
17293.500000	46.28	V	32.38	13.9	7.72	54.00

**Set.2 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14207.500000	55.10	V	43.8	11.3	18.90	74.00
15136.500000	55.60	V	43.5	12.1	18.40	74.00
15735.500000	57.17	V	44.47	12.7	16.83	74.00
16303.000000	56.86	H	43.56	13.3	17.14	74.00
16718.500000	58.21	V	44.41	13.8	15.79	74.00
17829.000000	57.24	H	43.44	13.8	16.76	74.00

**Set.2 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14553.000000	43.30	V	31.4	11.9	10.70	54.00
15171.000000	43.91	V	31.81	12.1	10.09	54.00
15761.500000	45.37	H	32.57	12.8	8.63	54.00
16198.000000	45.78	H	32.68	13.1	8.22	54.00
16698.000000	46.12	H	32.32	13.8	7.88	54.00
17278.500000	45.79	V	31.89	13.9	8.21	54.00

**Set.3 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
13933.500000	54.23	H	43.43	10.8	19.77	74.00
14063.000000	55.11	V	44.11	11.0	18.89	74.00
15143.500000	56.25	H	44.15	12.1	17.75	74.00
15749.000000	57.35	V	44.55	12.8	16.65	74.00
16175.500000	57.75	H	44.65	13.1	16.25	74.00
16782.000000	58.08	V	44.18	13.9	15.92	74.00

**Set.3 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
12685.500000	40.20	V	29.5	10.7	13.80	54.00
13941.500000	42.21	V	31.41	10.8	11.79	54.00
15169.000000	44.12	V	32.02	12.1	9.88	54.00
15753.000000	45.44	V	32.64	12.8	8.56	54.00
16198.500000	45.98	H	32.88	13.1	8.02	54.00
17289.000000	45.90	H	32	13.9	8.10	54.00

**Set.4 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14173.000000	54.64	V	43.44	11.2	19.36	74.00
14601.500000	55.64	V	43.74	11.9	18.36	74.00
15695.000000	57.23	V	44.53	12.7	16.77	74.00
16338.000000	57.34	V	43.94	13.4	16.66	74.00
16770.000000	57.73	V	43.83	13.9	16.27	74.00
17419.500000	57.69	V	43.69	14.0	16.31	74.00

**Set.4 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14544.500000	43.53	V	31.63	11.9	10.47	54.00
15168.000000	44.31	V	32.21	12.1	9.69	54.00
15758.000000	45.89	V	33.09	12.8	8.11	54.00
16209.500000	45.97	V	32.87	13.1	8.03	54.00
16730.500000	46.45	V	32.65	13.8	7.55	54.00
17295.500000	46.16	V	32.26	13.9	7.84	54.00

**Set.5 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14243.500000	54.97	V	43.67	11.3	19.03	74.00
15171.500000	55.53	H	43.43	12.1	18.47	74.00
15732.500000	56.76	V	44.06	12.7	17.24	74.00
16293.000000	57.29	V	43.99	13.3	16.71	74.00
16845.500000	58.25	V	44.35	13.9	15.75	74.00
17293.500000	57.44	H	43.54	13.9	16.56	74.00

**Set.5 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14525.500000	43.44	V	31.64	11.8	10.56	54.00
15135.500000	43.93	V	31.83	12.1	10.07	54.00
15681.000000	45.33	V	32.73	12.6	8.67	54.00
16205.500000	45.37	H	32.27	13.1	8.63	54.00
16797.500000	45.91	H	32.01	13.9	8.09	54.00
17420.500000	45.47	V	31.47	14.0	8.53	54.00

**Set.6 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14524.500000	55.61	V	43.81	11.8	18.39	74.00
15038.000000	55.73	H	43.63	12.1	18.27	74.00
15742.000000	56.72	H	43.92	12.8	17.28	74.00
16183.000000	57.26	V	44.16	13.1	16.74	74.00
16708.500000	57.45	V	43.65	13.8	16.55	74.00
17306.500000	57.08	H	43.18	13.9	16.92	74.00

**Set.6 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14531.500000	43.34	V	31.54	11.8	10.66	54.00
15167.000000	43.81	H	31.71	12.1	10.19	54.00
15763.000000	45.09	V	32.29	12.8	8.91	54.00
16213.000000	45.27	V	32.17	13.1	8.73	54.00
16744.500000	45.68	H	31.78	13.9	8.32	54.00
17309.500000	45.32	H	31.42	13.9	8.68	54.00

**Set.7 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14530.500000	55.49	V	43.69	11.8	18.51	74.00
14971.500000	55.90	V	43.9	12.0	18.10	74.00
15797.000000	56.76	V	43.96	12.8	17.24	74.00
16240.500000	56.61	V	43.41	13.2	17.39	74.00
16694.000000	57.68	H	43.88	13.8	16.32	74.00
17392.500000	57.80	V	43.8	14.0	16.20	74.00

**Set.7 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14542.500000	43.34	H	31.44	11.9	10.66	54.00
15133.000000	43.55	H	31.45	12.1	10.45	54.00
15684.000000	45.04	H	32.44	12.6	8.96	54.00
16200.500000	45.24	V	32.14	13.1	8.76	54.00
16838.500000	45.47	V	31.57	13.9	8.53	54.00
17340.000000	45.14	H	31.14	14.0	8.86	54.00

**Set.8 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14001.500000	55.28	V	44.48	10.8	18.72	74.00
14648.000000	56.29	V	44.39	11.9	17.71	74.00
15789.500000	57.27	H	44.47	12.8	16.73	74.00
16303.500000	57.32	H	44.02	13.3	16.68	74.00
16734.000000	57.56	H	43.76	13.8	16.44	74.00
17304.500000	56.44	H	42.54	13.9	17.56	74.00

**Set.8 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14552.000000	43.38	V	31.48	11.9	10.62	54.00
15133.000000	43.74	V	31.64	12.1	10.26	54.00
15757.500000	45.02	V	32.22	12.8	8.98	54.00
16211.000000	45.03	V	31.93	13.1	8.97	54.00
16828.000000	45.38	H	31.48	13.9	8.62	54.00
17371.500000	44.91	H	30.91	14.0	9.09	54.00

**Set.9 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14548.500000	54.59	H	42.69	11.9	19.41	74.00
14558.000000	55.43	V	43.53	11.9	18.57	74.00
15755.000000	56.26	V	43.46	12.8	17.74	74.00
16294.000000	56.76	H	43.46	13.3	17.24	74.00
16817.500000	57.08	V	43.18	13.9	16.92	74.00
17499.000000	56.73	V	42.73	14.0	17.27	74.00

**Set.9 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14545.500000	43.40	H	31.5	11.9	10.60	54.00
15169.500000	43.55	H	31.45	12.1	10.45	54.00
15786.000000	44.95	H	32.15	12.8	9.05	54.00
16220.500000	44.95	H	31.85	13.1	9.05	54.00
16786.500000	45.43	H	31.53	13.9	8.57	54.00
17358.500000	44.90	V	30.9	14.0	9.10	54.00

**Set.10 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14514.000000	55.86	H	44.06	11.8	18.14	74.00
15115.000000	55.48	H	43.38	12.1	18.52	74.00
15791.000000	56.41	V	43.61	12.8	17.59	74.00
16215.500000	56.56	V	43.46	13.1	17.44	74.00
16801.500000	57.56	V	43.66	13.9	16.44	74.00
17296.500000	56.78	H	42.88	13.9	17.22	74.00

**Set.10 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14536.000000	43.18	H	31.28	11.9	10.82	54.00
15103.000000	43.51	V	31.41	12.1	10.49	54.00
15689.000000	45.01	H	32.31	12.7	8.99	54.00
16285.500000	44.78	V	31.48	13.3	9.22	54.00
16779.000000	45.39	H	31.49	13.9	8.61	54.00
17291.500000	44.88	H	30.98	13.9	9.12	54.00

**Set.11 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14129.500000	55.55	V	44.35	11.2	18.45	74.00
15175.500000	55.47	V	43.37	12.1	18.53	74.00
15615.500000	56.45	V	43.95	12.5	17.55	74.00
16141.500000	56.93	V	43.83	13.1	17.07	74.00
16822.000000	57.47	V	43.57	13.9	16.53	74.00
17293.000000	57.28	V	43.38	13.9	16.72	74.00

**Set.11 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14528.500000	43.36	V	31.56	11.8	10.64	54.00
15165.500000	44.27	V	32.17	12.1	9.73	54.00
15758.500000	45.42	V	32.62	12.8	8.58	54.00
16209.500000	45.54	V	32.44	13.1	8.46	54.00
16736.000000	46.10	V	32.3	13.8	7.90	54.00
17287.500000	45.93	V	32.03	13.9	8.07	54.00

**Set.12 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14527.000000	55.00	V	43.2	11.8	19.00	74.00
15088.000000	56.61	V	44.51	12.1	17.39	74.00
15686.000000	57.43	V	44.83	12.6	16.57	74.00
16196.000000	56.92	V	43.82	13.1	17.08	74.00
16698.000000	57.62	V	43.82	13.8	16.38	74.00
17298.000000	57.38	V	43.48	13.9	16.62	74.00

**Set.12 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14525.500000	43.37	V	31.57	11.8	10.63	54.00
15129.000000	44.26	V	32.16	12.1	9.74	54.00
15744.000000	45.60	V	32.8	12.8	8.40	54.00
16222.500000	45.60	V	32.5	13.1	8.40	54.00
16694.000000	46.31	V	32.51	13.8	7.69	54.00
17313.000000	45.87	V	31.97	13.9	8.13	54.00

**Set.13 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14117.500000	55.00	V	43.9	11.1	19.00	74.00
15169.000000	55.79	V	43.69	12.1	18.21	74.00
15676.000000	56.09	V	43.49	12.6	17.91	74.00
16243.000000	56.30	V	43.1	13.2	17.70	74.00
16677.000000	57.24	V	43.44	13.8	16.76	74.00
17365.500000	56.55	V	42.55	14.0	17.45	74.00

**Set.13 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14527.500000	43.52	V	31.72	11.8	10.48	54.00
15136.000000	43.86	V	31.76	12.1	10.14	54.00
15756.500000	45.20	V	32.4	12.8	8.80	54.00
16214.500000	45.25	V	32.15	13.1	8.75	54.00
16741.000000	45.58	V	31.68	13.9	8.42	54.00
17393.500000	45.08	V	31.08	14.0	8.92	54.00

**Set.14 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14014.000000	54.99	V	44.09	10.9	19.01	74.00
14652.500000	55.43	V	43.53	11.9	18.57	74.00
15774.000000	56.05	V	43.25	12.8	17.95	74.00
16212.500000	56.65	V	43.55	13.1	17.35	74.00
16704.500000	56.63	V	42.83	13.8	17.37	74.00
17386.000000	56.42	V	42.42	14.0	17.58	74.00

**Set.14 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14551.500000	43.18	V	31.28	11.9	10.82	54.00
15054.500000	43.80	V	31.7	12.1	10.20	54.00
15741.500000	45.20	V	32.4	12.8	8.80	54.00
16222.500000	44.86	V	31.76	13.1	9.14	54.00
16801.000000	45.29	V	31.39	13.9	8.71	54.00
17337.000000	44.76	V	30.76	14.0	9.24	54.00

**15 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14482.500000	54.38	V	42.58	11.8	19.62	74.00
14602.500000	55.34	V	43.44	11.9	18.66	74.00
15789.500000	55.83	V	43.03	12.8	18.17	74.00
16257.000000	56.88	V	43.68	13.2	17.12	74.00
16764.500000	57.60	V	43.7	13.9	16.40	74.00
17465.000000	55.85	V	41.85	14.0	18.15	74.00

**Set.15 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14536.500000	43.67	V	31.77	11.9	10.33	54.00
15087.000000	43.57	V	31.47	12.1	10.43	54.00
15770.000000	44.89	V	32.09	12.8	9.11	54.00
16220.000000	44.79	V	31.69	13.1	9.21	54.00
16801.000000	45.28	V	31.38	13.9	8.72	54.00
17406.500000	44.81	V	30.81	14.0	9.19	54.00

**Set.16 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14072.000000	54.10	V	43.1	11.0	19.91	74.00
15090.500000	55.17	V	43.07	12.1	18.83	74.00
15744.000000	55.69	V	42.89	12.8	18.31	74.00
16128.000000	55.93	V	42.83	13.1	18.07	74.00
16763.500000	56.35	V	42.45	13.9	17.65	74.00
17518.000000	55.77	V	41.77	14.0	18.23	74.00

**Set.16 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14525.500000	43.06	V	31.26	11.8	10.94	54.00
15068.500000	43.38	V	31.28	12.1	10.62	54.00
15774.500000	44.81	V	32.01	12.8	9.19	54.00
16235.500000	44.24	V	31.14	13.1	9.76	54.00
16801.000000	44.76	V	30.86	13.9	9.24	54.00
17274.500000	44.26	V	30.36	13.9	9.74	54.00

**Set.17 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14551.000000	55.04	V	43.14	11.9	18.96	74.00
14662.000000	55.20	V	43.3	11.9	18.80	74.00
15742.000000	56.27	V	43.47	12.8	17.73	74.00
16176.000000	55.90	V	42.8	13.1	18.10	74.00
16746.500000	55.83	V	41.93	13.9	18.17	74.00
17304.000000	55.54	V	41.64	13.9	18.46	74.00

**Set.17 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14514.000000	42.96	V	31.16	11.8	11.04	54.00
15048.000000	43.69	V	31.59	12.1	10.31	54.00
15744.000000	44.55	V	31.75	12.8	9.45	54.00
16199.000000	44.26	V	31.16	13.1	9.74	54.00
16860.000000	44.90	V	31	13.9	9.10	54.00
17360.000000	44.34	V	30.34	14.0	9.66	54.00

**Set.18 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14521.500000	54.43	V	42.63	11.8	19.57	74.00
14694.500000	54.54	V	42.64	11.9	19.46	74.00
15741.500000	56.23	V	43.43	12.8	17.77	74.00
16251.000000	55.54	V	42.34	13.2	18.46	74.00
16847.500000	56.49	V	42.59	13.9	17.51	74.00
17306.000000	55.78	V	41.88	13.9	18.22	74.00

**Set. 18 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14545.000000	43.06	V	31.16	11.9	10.94	54.00
15125.500000	43.38	V	31.28	12.1	10.62	54.00
15774.500000	44.71	V	31.91	12.8	9.29	54.00
16307.500000	44.29	V	30.99	13.3	9.71	54.00
16785.000000	44.91	V	31.01	13.9	9.09	54.00
17385.500000	44.16	V	30.16	14.0	9.84	54.00

**Set.19 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14172.000000	54.06	V	42.86	11.2	19.94	74.00
15006.000000	54.79	V	42.79	12.0	19.21	74.00
15733.500000	55.58	V	42.88	12.7	18.42	74.00
16175.500000	56.91	V	43.81	13.1	17.09	74.00
16740.500000	56.08	V	42.18	13.9	17.92	74.00
17334.000000	56.10	V	42.1	14.0	17.90	74.00

**Set.19 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14517.000000	43.24	V	31.44	11.8	10.76	54.00
15126.000000	43.47	V	31.37	12.1	10.53	54.00
15785.500000	44.63	V	31.83	12.8	9.37	54.00
16206.500000	44.48	V	31.38	13.1	9.52	54.00
16793.500000	44.94	V	31.04	13.9	9.06	54.00
17347.000000	44.26	V	30.26	14.0	9.74	54.00

**Set.20 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14524.500000	54.61	V	42.81	11.8	19.39	74.00
15048.500000	54.74	V	42.64	12.1	19.26	74.00
15641.000000	57.11	V	44.51	12.6	16.89	74.00
16183.500000	55.91	V	42.81	13.1	18.09	74.00
16686.000000	56.12	V	42.32	13.8	17.88	74.00
17344.500000	55.70	V	41.7	14.0	18.30	74.00

**Set.20 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14514.500000	43.30	V	31.5	11.8	10.70	54.00
15042.000000	43.61	V	31.51	12.1	10.39	54.00
15757.000000	44.86	V	32.06	12.8	9.14	54.00
16353.000000	44.58	V	31.18	13.4	9.42	54.00
16811.500000	45.03	V	31.13	13.9	8.97	54.00
17339.500000	44.77	V	30.77	14.0	9.23	54.00

**Set.21 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14143.000000	54.38	V	43.18	11.2	19.62	74.00
14606.500000	55.14	V	43.24	11.9	18.86	74.00
15672.500000	56.18	V	43.58	12.6	17.82	74.00
16087.000000	55.65	V	42.55	13.1	18.35	74.00
16850.000000	55.75	V	41.85	13.9	18.25	74.00
17416.500000	55.89	V	41.89	14.0	18.11	74.00

**Set.21 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14519.500000	43.21	V	31.41	11.8	10.80	54.00
15120.500000	43.34	V	31.24	12.1	10.66	54.00
15766.500000	44.59	V	31.79	12.8	9.41	54.00
16227.000000	44.14	V	31.04	13.1	9.86	54.00
16839.500000	44.85	V	30.95	13.9	9.15	54.00
17354.500000	44.09	V	30.09	14.0	9.91	54.00

**Set.22 Charging mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14008.500000	54.96	V	44.16	10.8	19.04	74.00
15095.000000	55.63	H	43.53	12.1	18.37	74.00
15717.000000	57.15	H	44.45	12.7	16.85	74.00
16215.000000	57.35	V	44.25	13.1	16.65	74.00
16892.000000	58.02	V	44.02	14.0	15.98	74.00
17280.500000	57.27	V	43.37	13.9	16.73	74.00

**Set.22 Charging mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14553.000000	43.22	V	31.32	11.9	10.78	54.00
15169.500000	43.95	H	31.85	12.1	10.05	54.00
15746.500000	45.50	H	32.7	12.8	8.50	54.00
16226.500000	45.42	V	32.32	13.1	8.58	54.00
16692.500000	46.00	H	32.2	13.8	8.00	54.00
17302.000000	45.69	H	31.79	13.9	8.31	54.00

**Set.23 USB mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14480.500000	54.54	V	42.84	11.7	19.46	74.00
15152.000000	55.82	V	43.72	12.1	18.18	74.00
15754.500000	55.76	V	42.96	12.8	18.24	74.00
16373.500000	55.48	V	41.98	13.5	18.52	74.00
16779.500000	55.84	V	41.94	13.9	18.16	74.00
17317.000000	55.76	V	41.86	13.9	18.24	74.00

**Set.23 USB mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14529.500000	43.14	V	31.34	11.8	10.86	54.00
15149.500000	43.32	V	31.22	12.1	10.68	54.00
15749.000000	44.46	V	31.66	12.8	9.54	54.00
16209.000000	44.40	V	31.3	13.1	9.60	54.00
16845.000000	44.99	V	31.09	13.9	9.01	54.00
17274.500000	44.24	V	30.34	13.9	9.76	54.00

**Set.24 USB mode / Peak detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14517.000000	54.99	V	43.19	11.8	19.01	74.00
15149.000000	55.28	V	43.18	12.1	18.72	74.00
15707.500000	56.95	V	44.25	12.7	17.05	74.00
16234.500000	56.09	V	42.99	13.1	17.91	74.00
16893.500000	56.02	V	42.02	14.0	17.98	74.00
17370.500000	55.82	V	41.82	14.0	18.18	74.00

**Set.24 USB mode / Average detector**

Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14545.500000	43.07	V	31.17	11.9	10.93	54.00
15050.500000	43.30	V	31.2	12.1	10.70	54.00
15792.000000	44.50	V	31.7	12.8	9.50	54.00
16227.500000	44.26	V	31.16	13.1	9.74	54.00
16762.000000	44.68	V	30.78	13.9	9.32	54.00
17346.500000	44.01	V	30.01	14.0	9.99	54.00

**Set.25 USB mode / Peak detector**

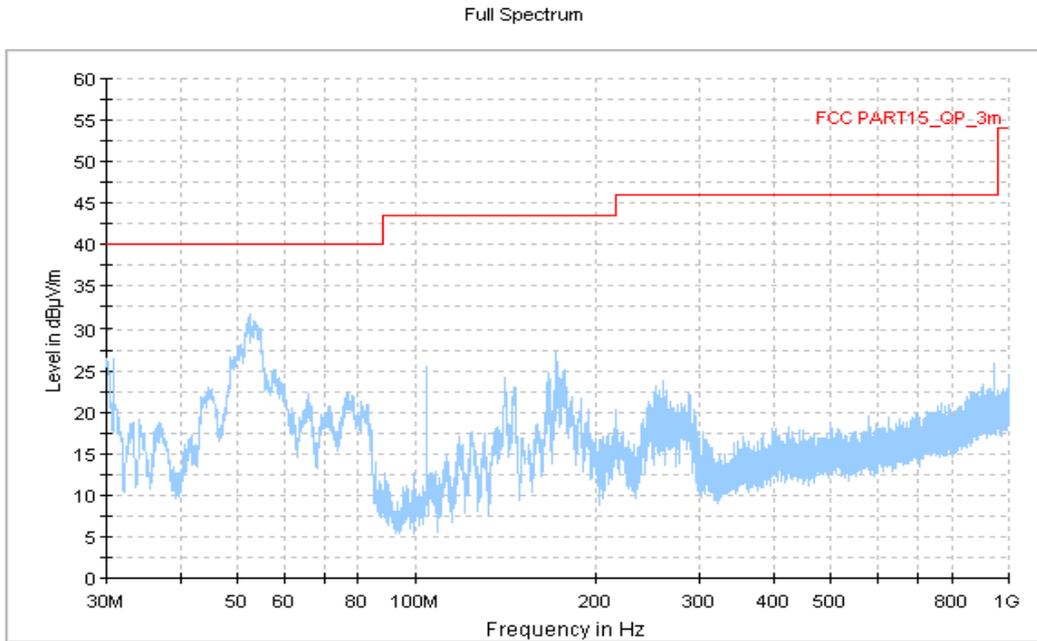
Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14547.000000	54.18	V	42.28	11.9	19.82	74.00
14587.000000	55.03	V	43.13	11.9	18.97	74.00
15814.000000	55.41	V	42.61	12.8	18.59	74.00
16202.500000	55.42	V	42.32	13.1	18.58	74.00
16752.500000	56.37	V	42.47	13.9	17.63	74.00
17308.000000	56.09	V	42.19	13.9	17.91	74.00

**Set.25USB mode / Average detector**

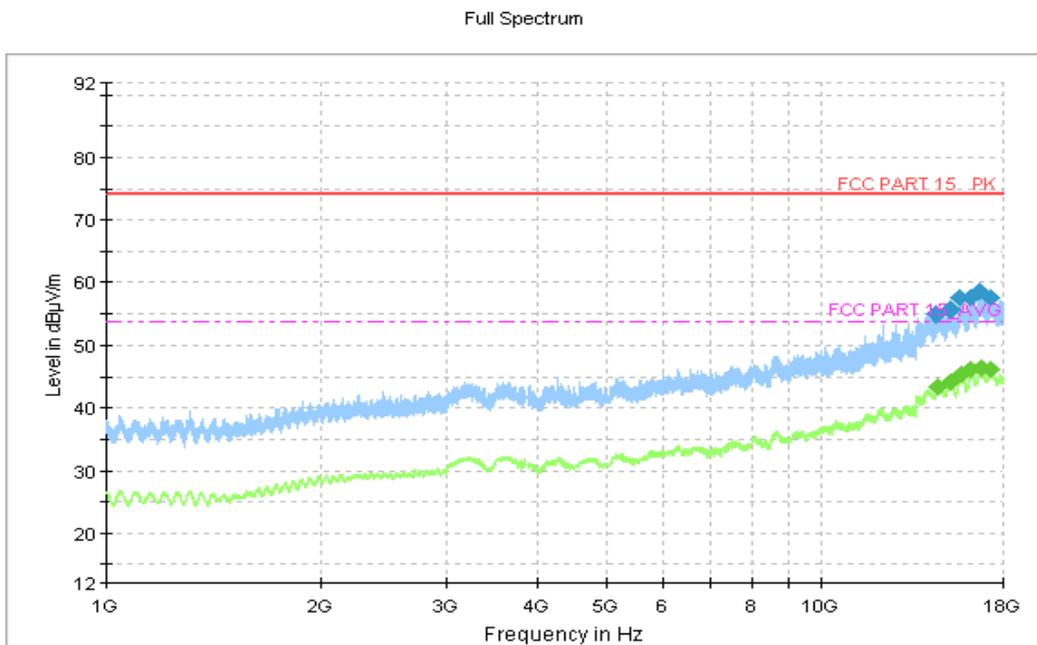
Frequency(MHz)	Result(dBuV/m)	Polarity	P <sub>Mea</sub> (dBμV)	A <sub>Rpl</sub> (dB)	Margin(dB)	Limit (dBμV/m)
14538.000000	43.09	V	31.19	11.9	10.91	54.00
15070.500000	43.35	V	31.25	12.1	10.65	54.00
15761.500000	44.42	V	31.62	12.8	9.58	54.00
16209.500000	44.14	V	31.04	13.1	9.86	54.00
16791.000000	45.06	V	31.16	13.9	8.94	54.00
17360.000000	44.23	V	30.23	14.0	9.77	54.00

Note: The measurement result of Set.1,Set.2, Set.3, Set.4,Set.5, Set.6, Set.7,Set.8, Set.9, Set.10,Set.11, Set.12 Set.13,Set.14, Set.15, Set.16,Set.17, Set.18, Set.19,Set.20, Set.21, Set.22,Set.23, Set.24,,and Set.25 showed here are worst cases of combinations of different batteries and USB cables.

Charging mode: Set 1



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



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

Charging mode: Set 2

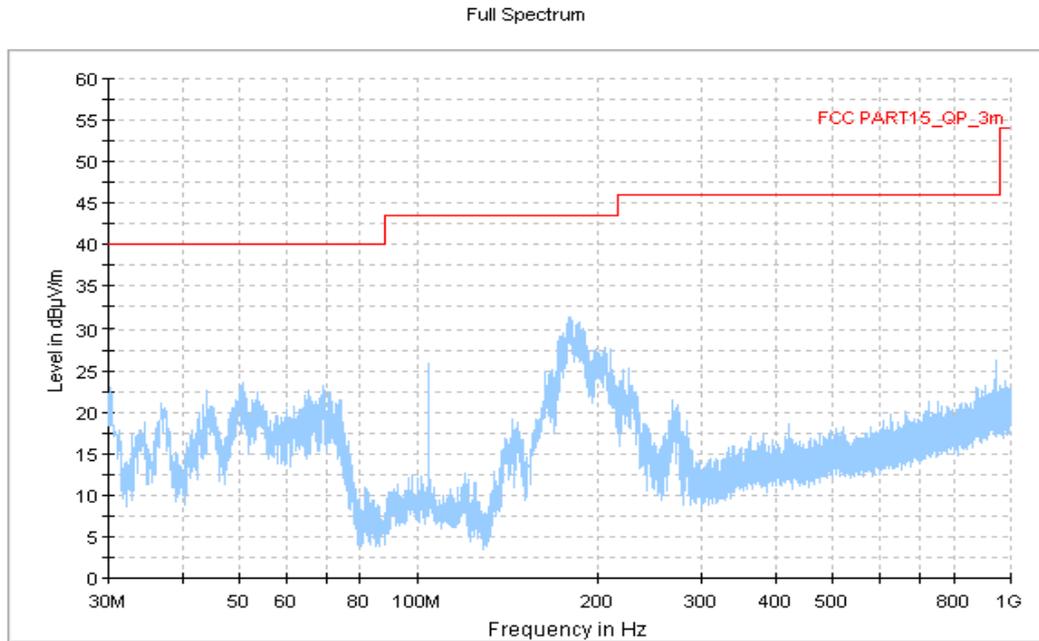


Figure A.3 Radiated Emission from 30MHz to 1GHz

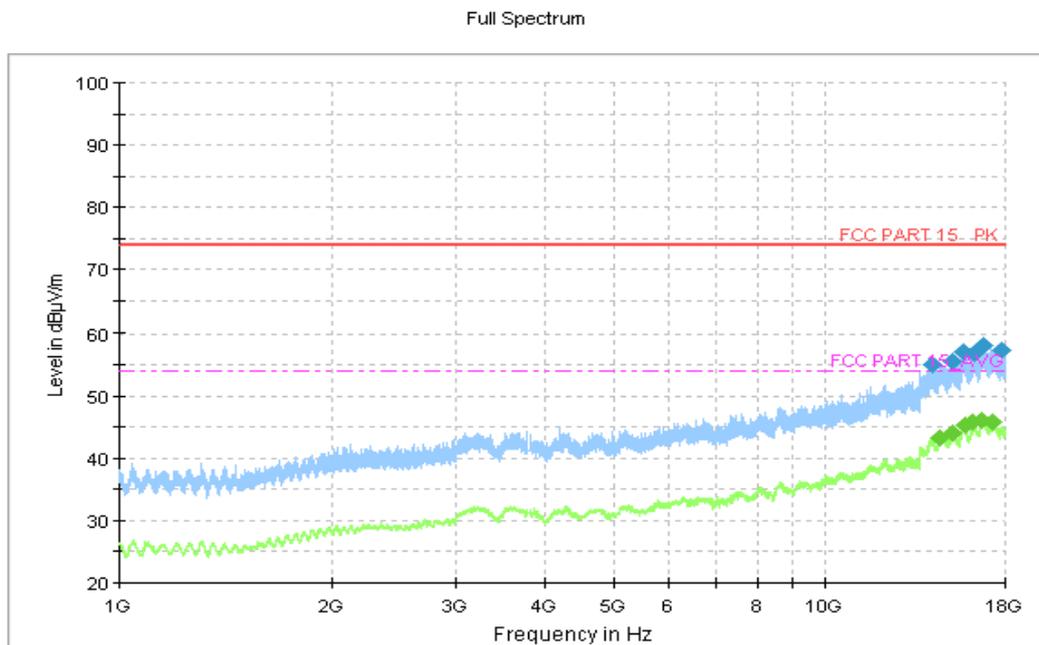


Figure A.4 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 3

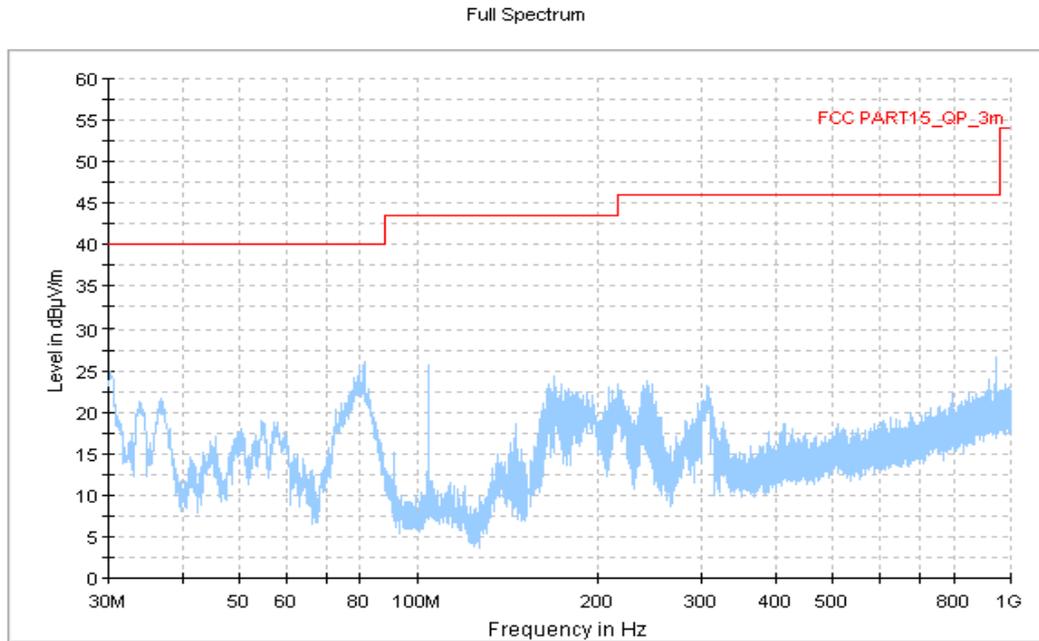


Figure A.5 Radiated Emission from 30MHz to 1GHz

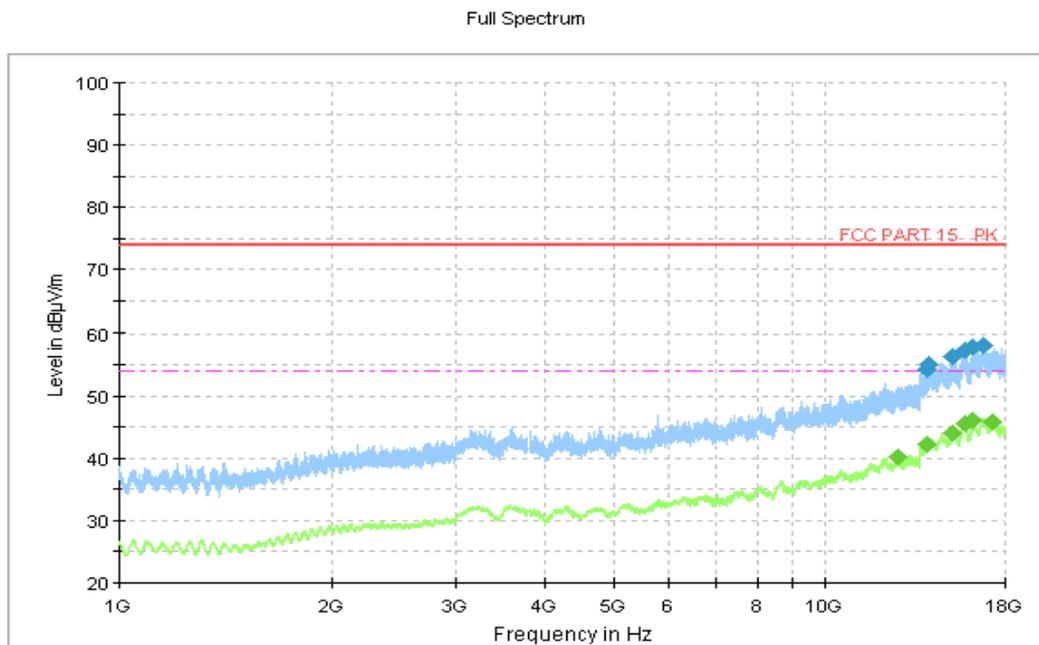


Figure A.6 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 4

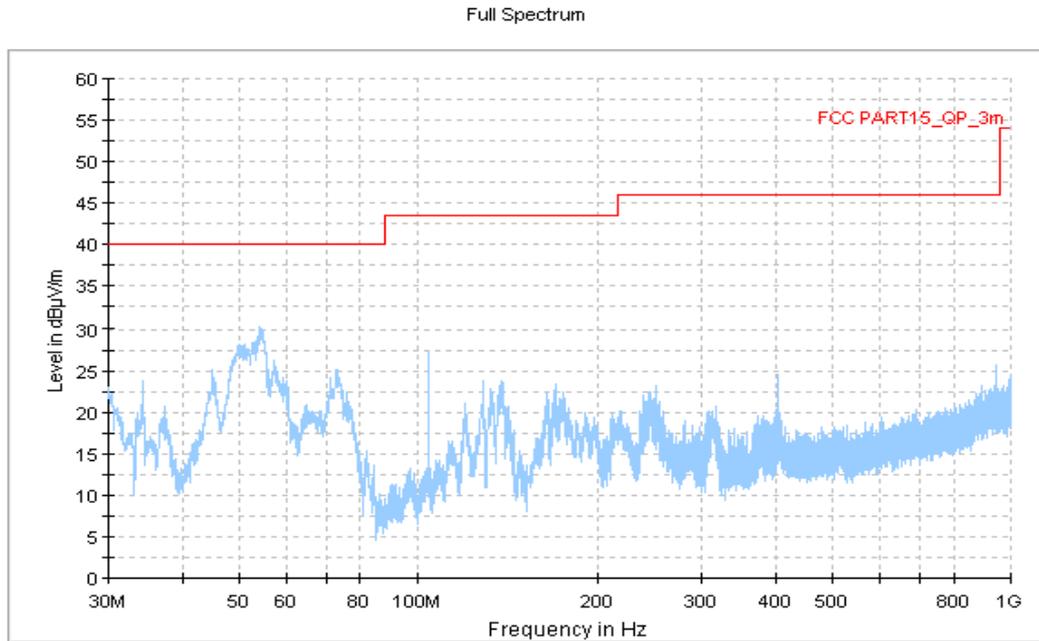


Figure A.7 Radiated Emission from 30MHz to 1GHz

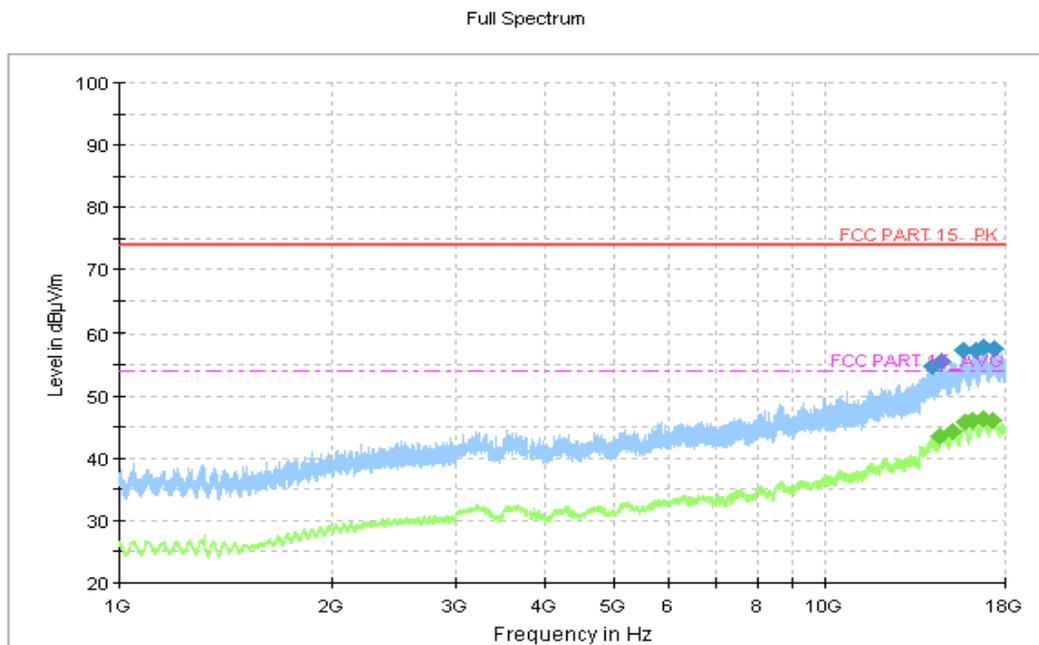


Figure A.8 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 5

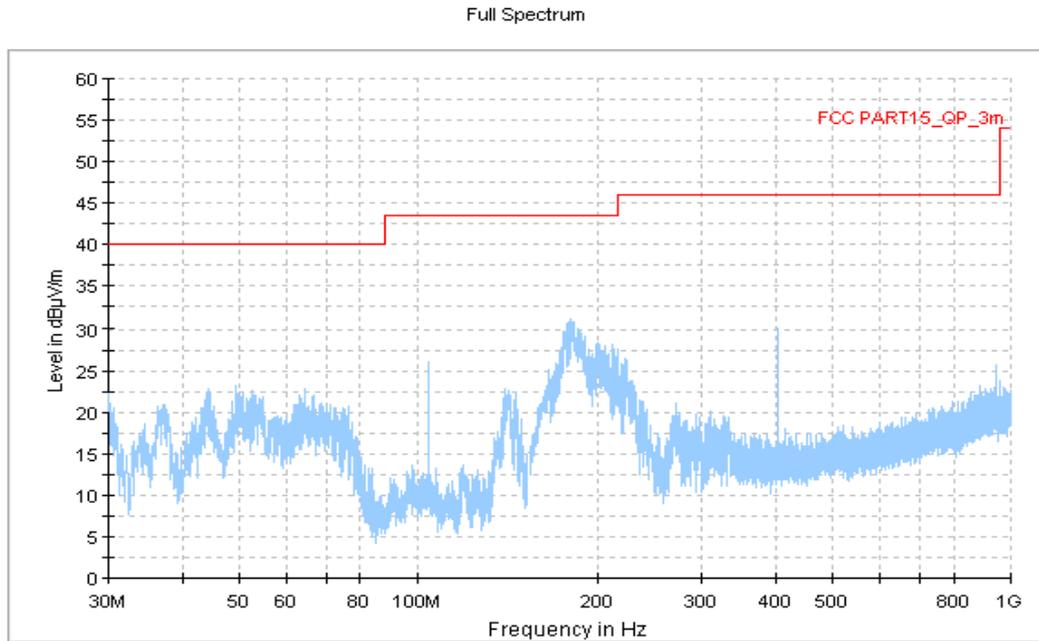


Figure A.9 Radiated Emission from 30MHz to 1GHz

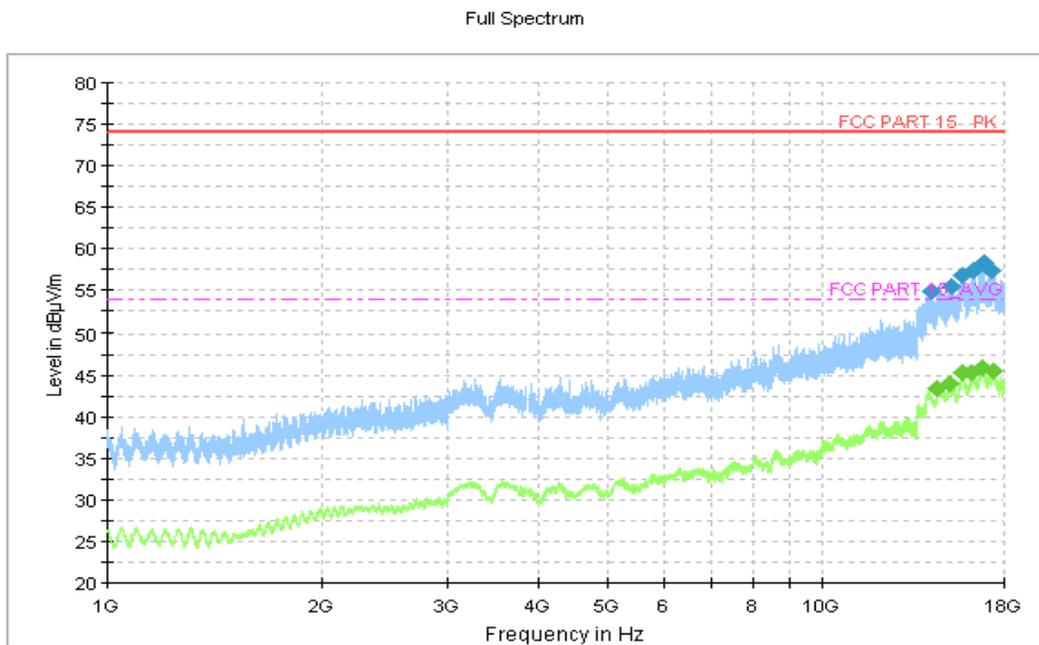


Figure A.10 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 6

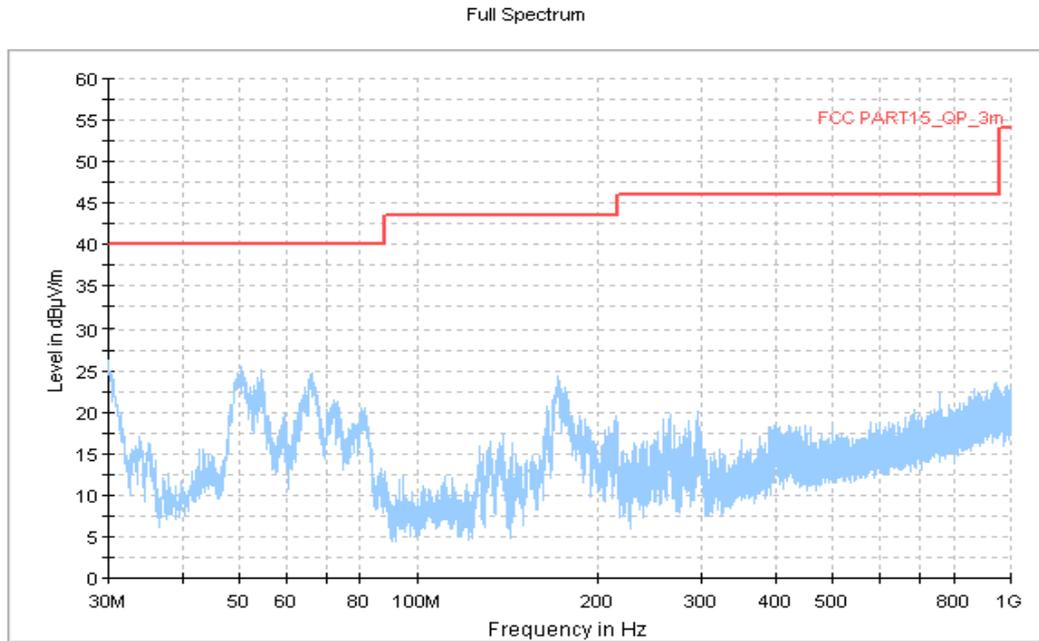


Figure A.11 Radiated Emission from 30MHz to 1GHz

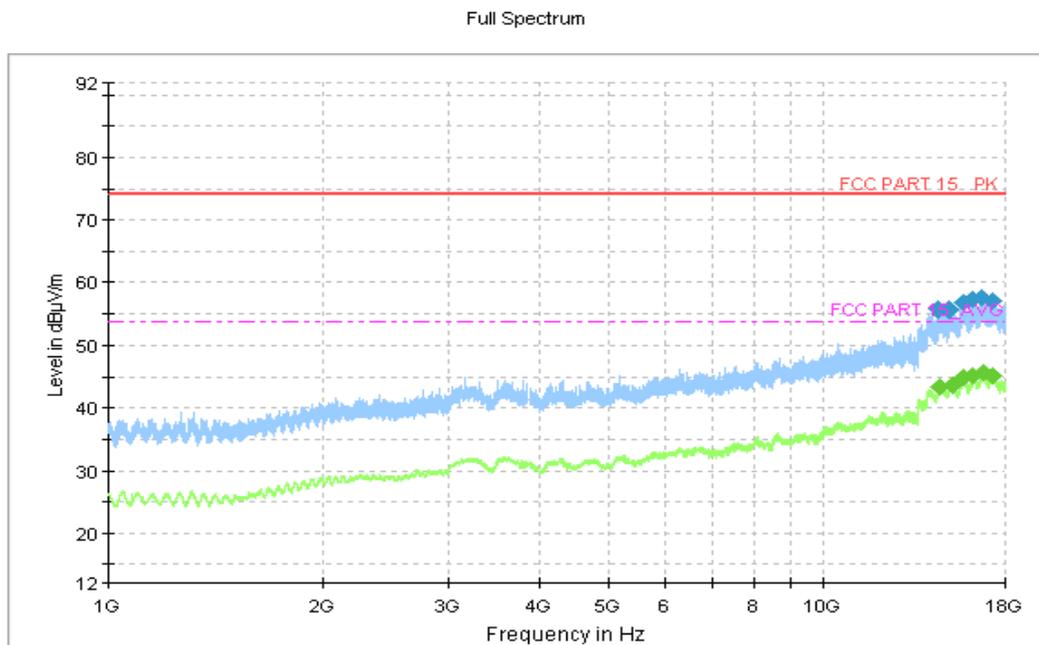


Figure A.12 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 7

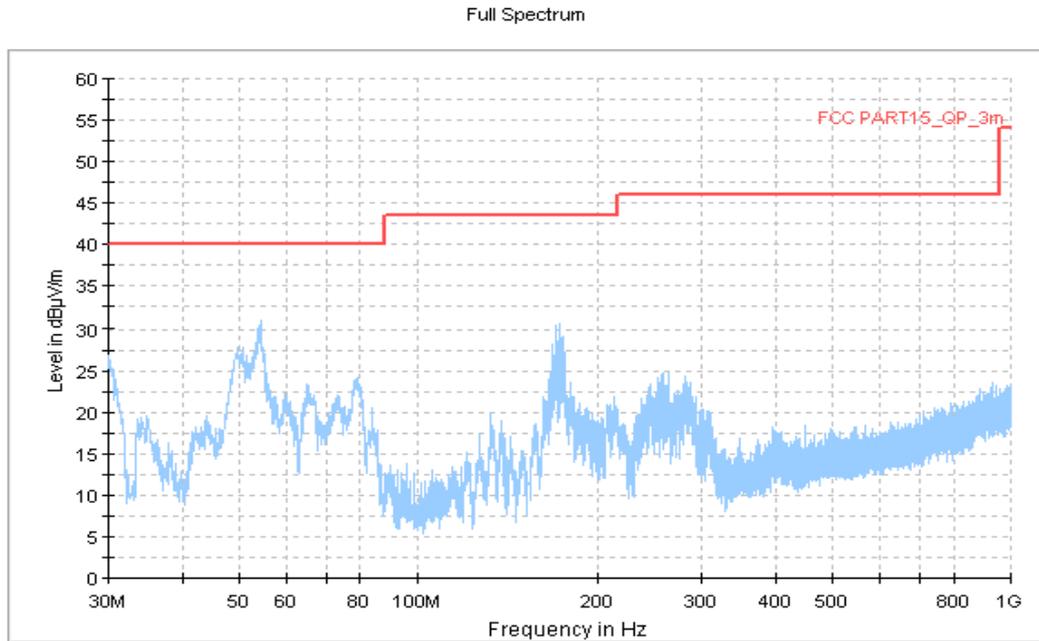


Figure A.13 Radiated Emission from 30MHz to 1GHz

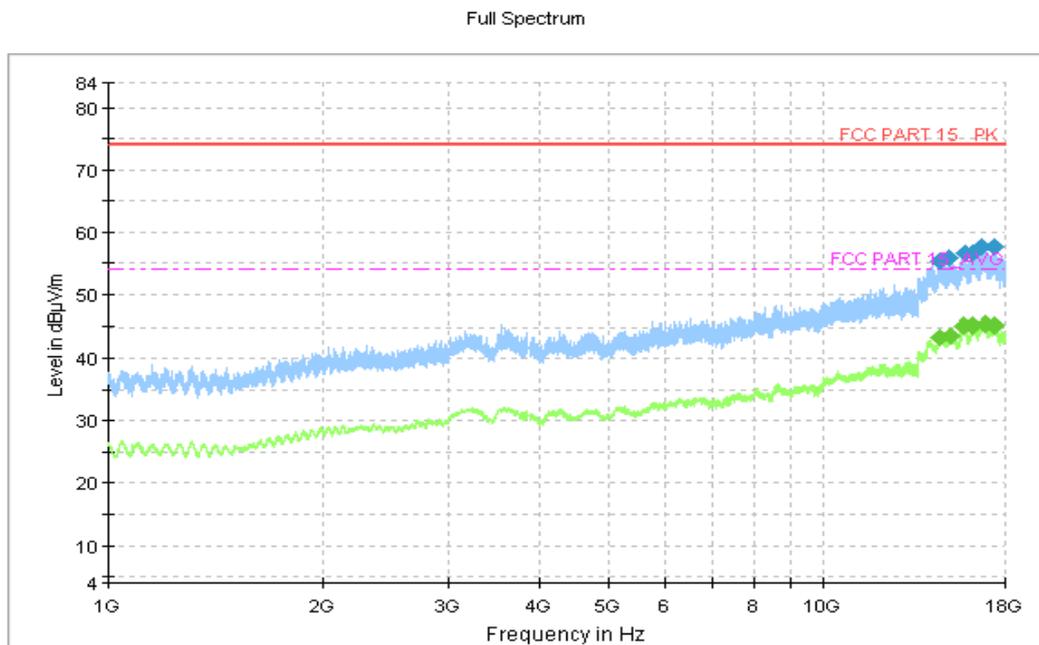


Figure A.14 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 8

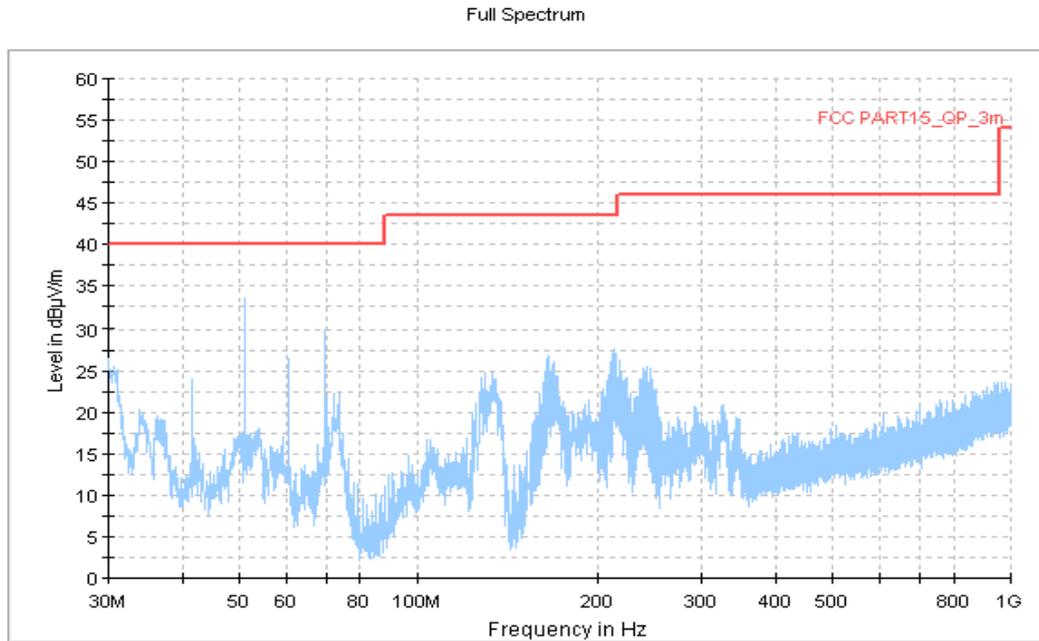


Figure A.15 Radiated Emission from 30MHz to 1GHz

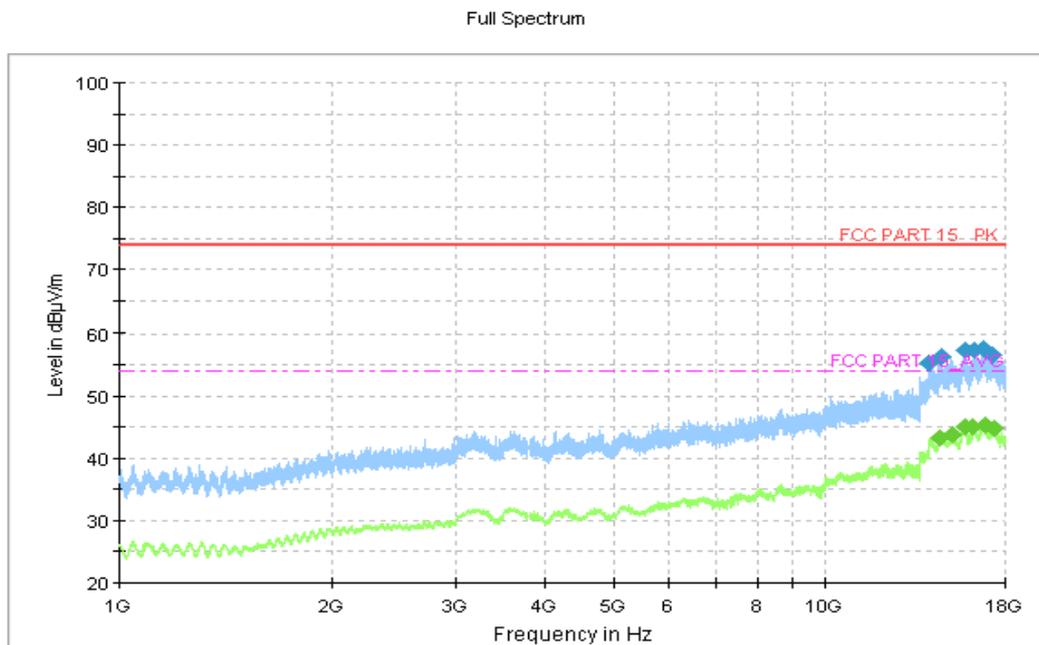


Figure A.16 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 9

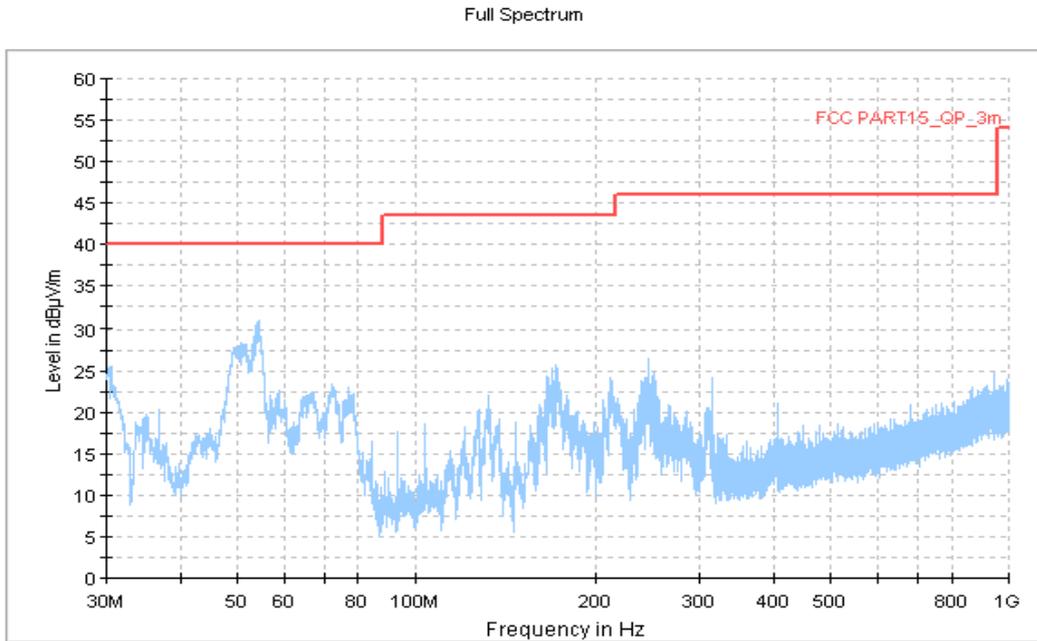


Figure A.17 Radiated Emission from 30MHz to 1GHz

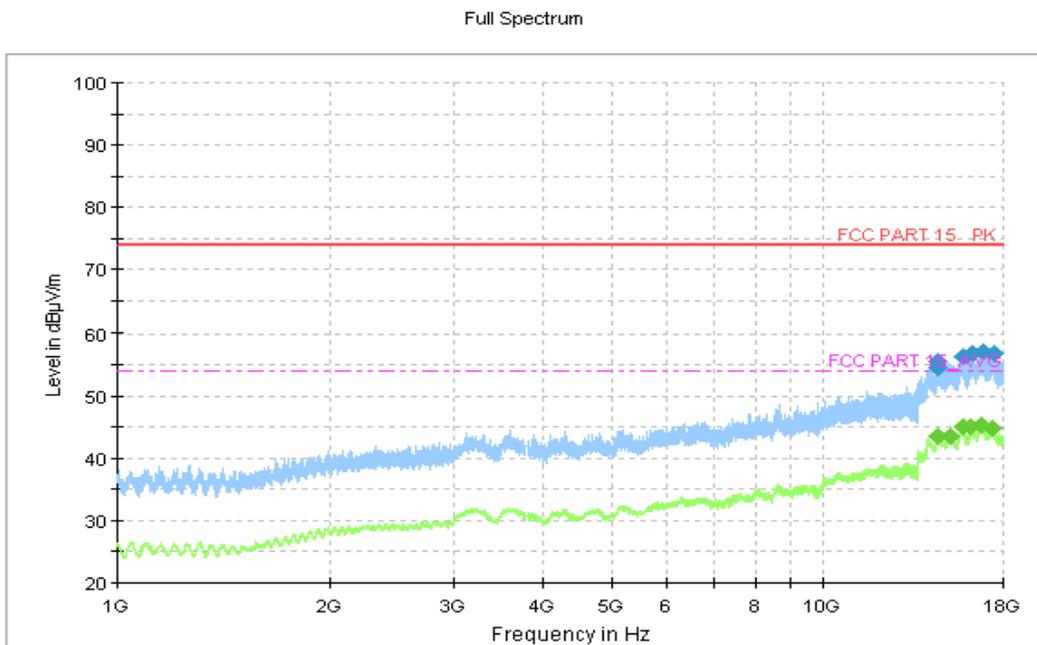


Figure A.18 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 10

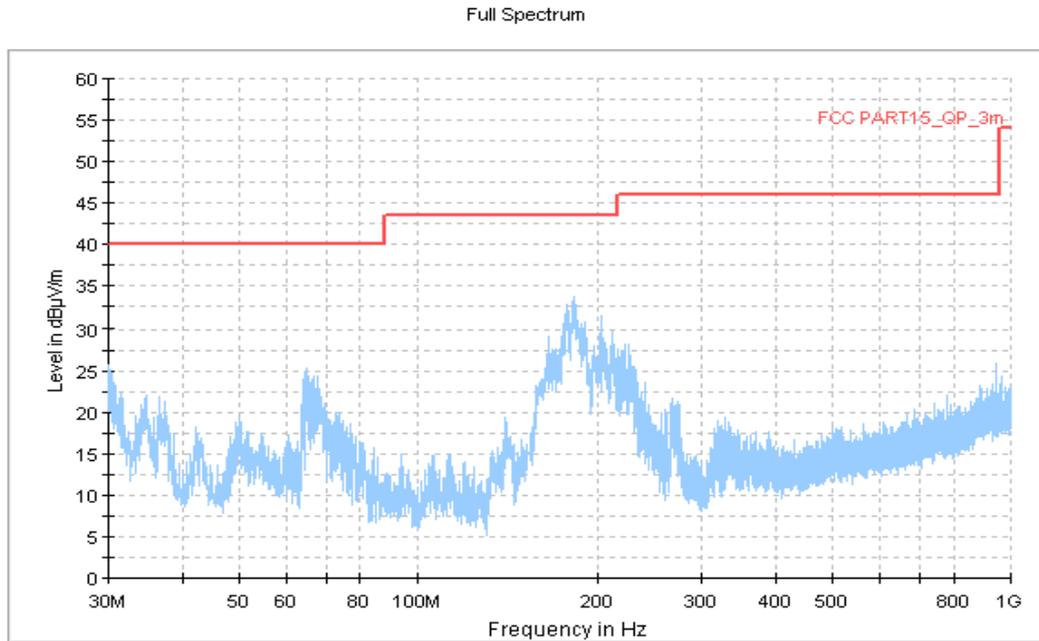


Figure A.19 Radiated Emission from 30MHz to 1GHz

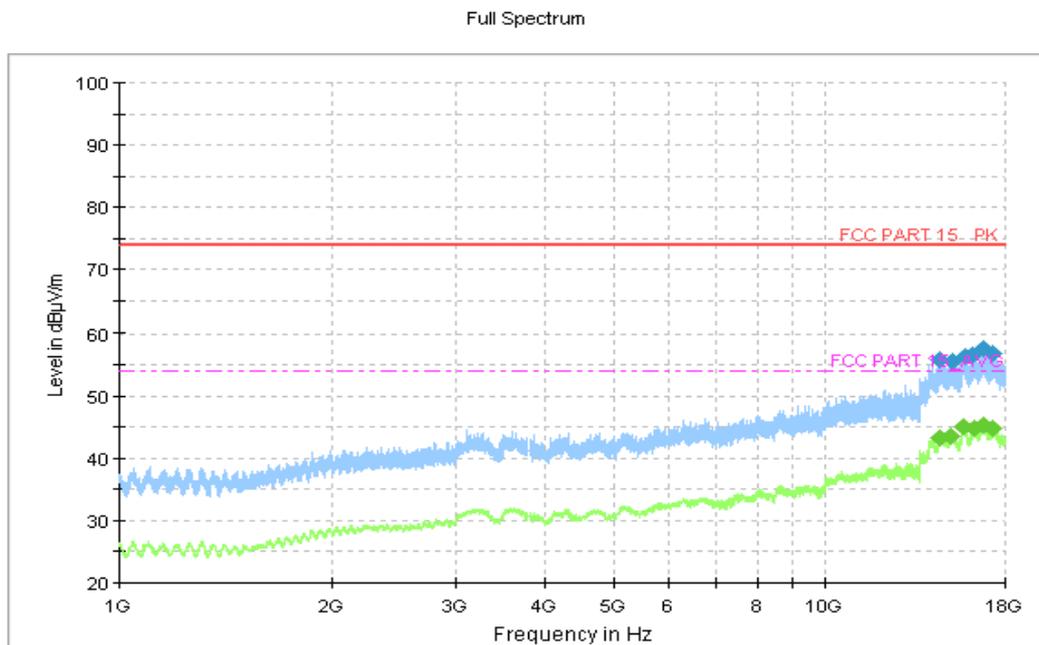


Figure A.20 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 11

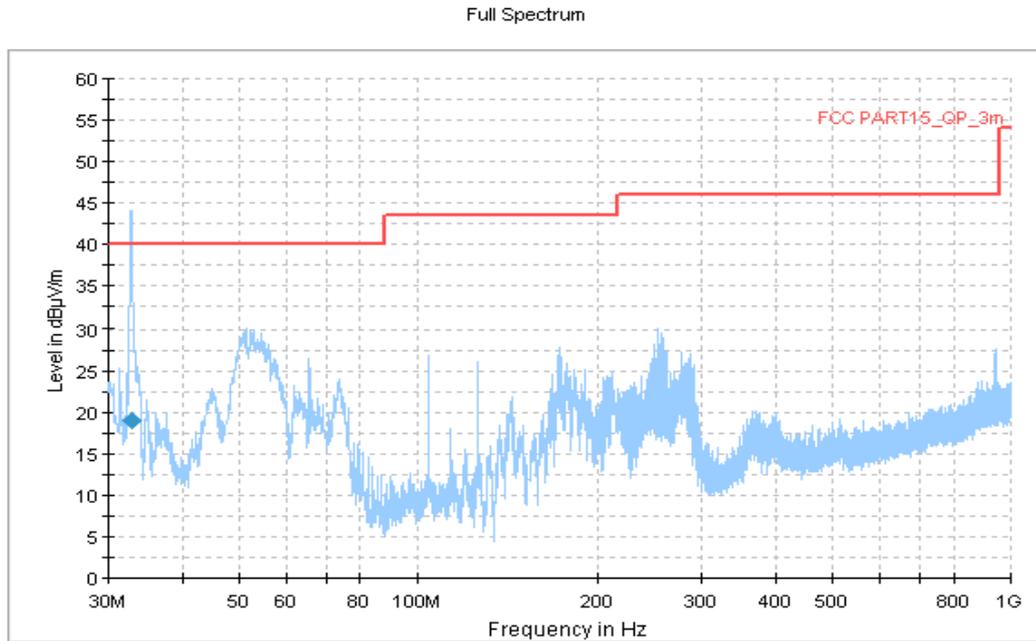


Figure A.21 Radiated Emission from 30MHz to 1GHz

Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
32.793000	18.92	40.00	21.08	V	-37.1

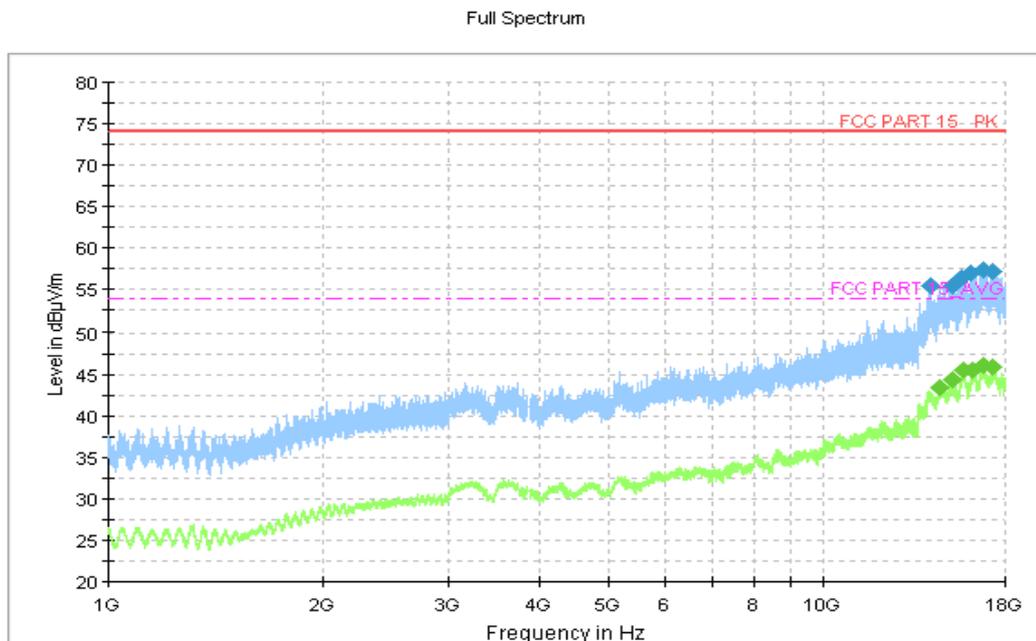


Figure A.22 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 12

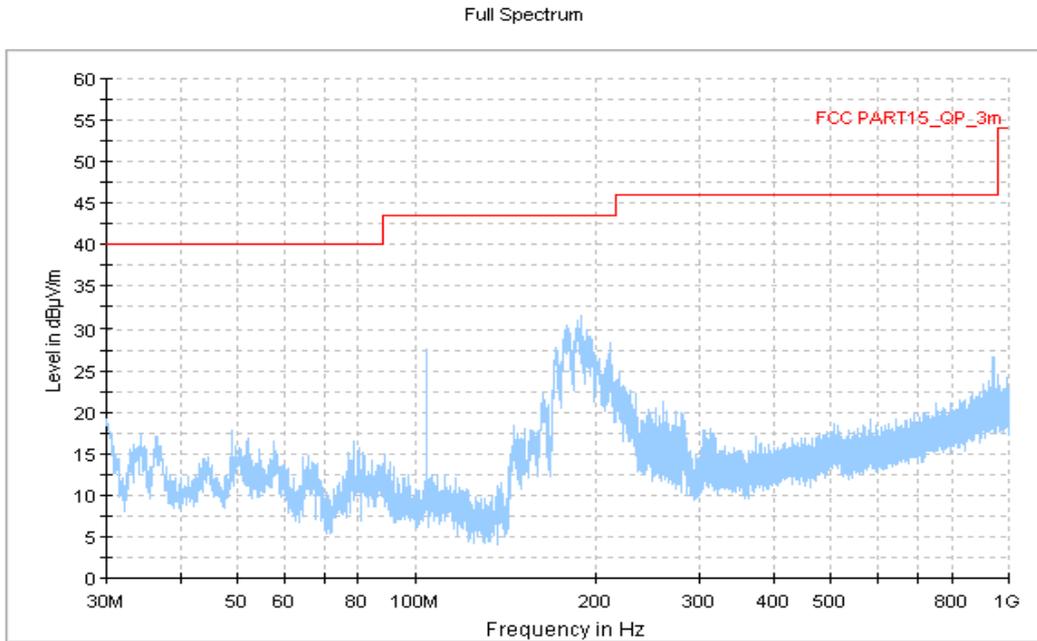


Figure A.23 Radiated Emission from 30MHz to 1GHz

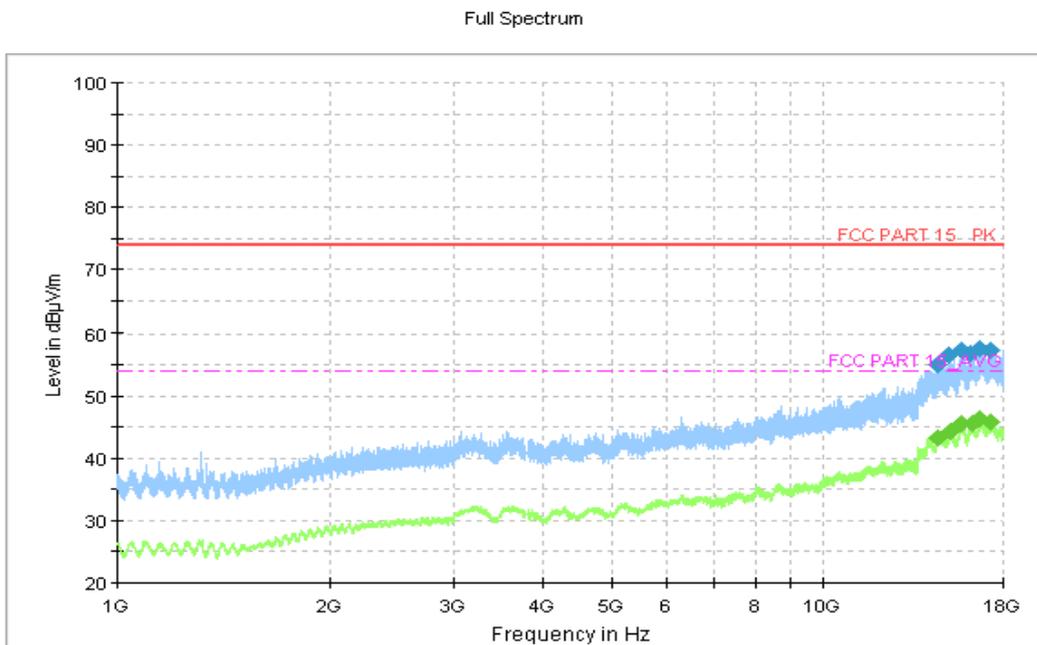


Figure A.24 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 13

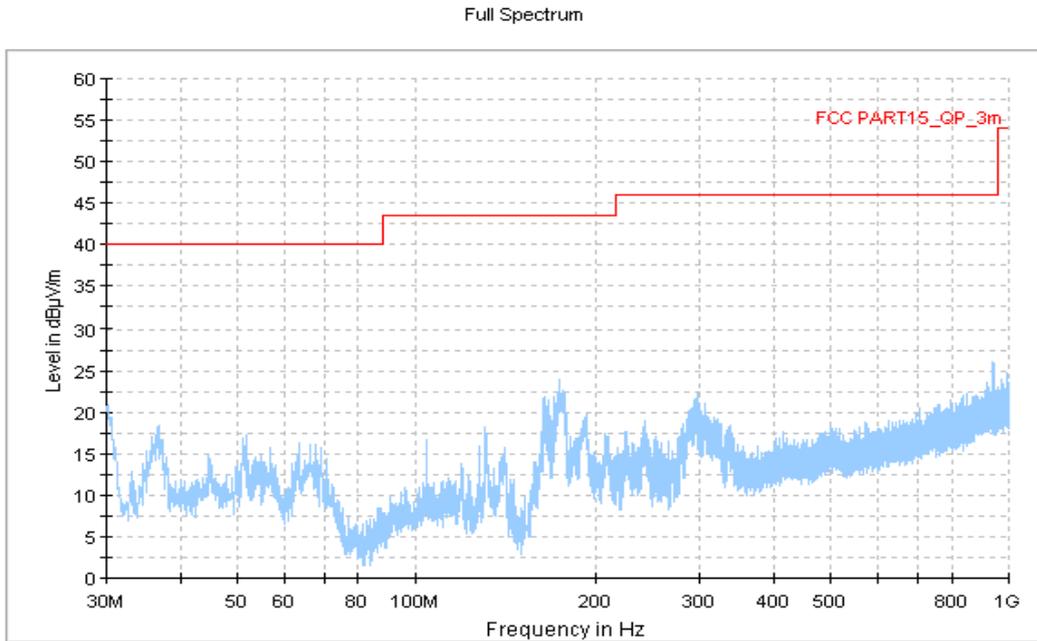


Figure A.25 Radiated Emission from 30MHz to 1GHz

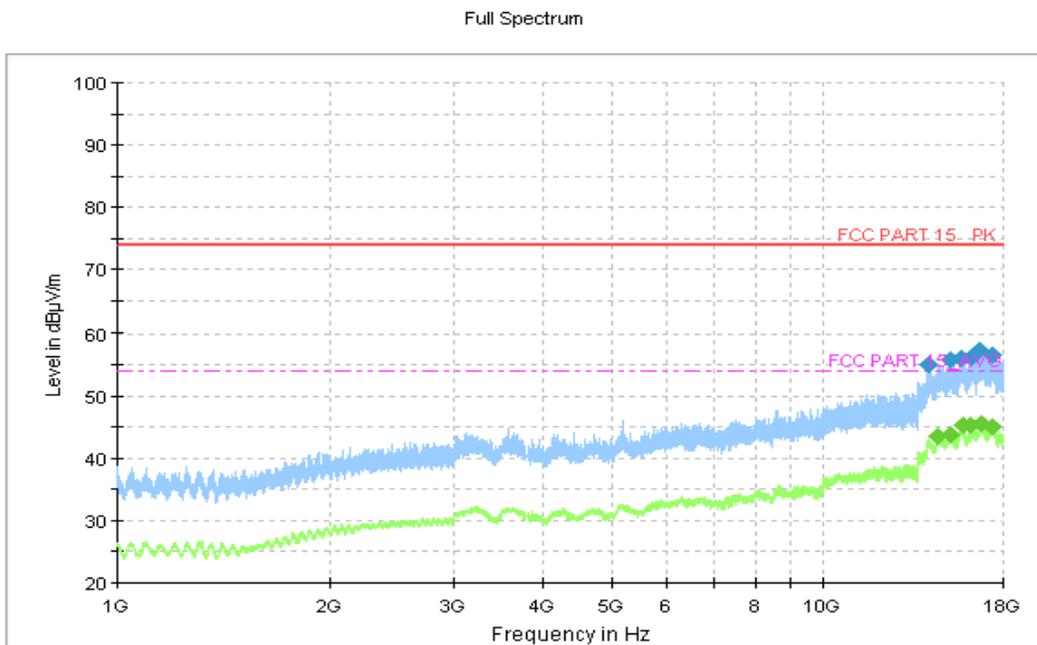


Figure A.26 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 14

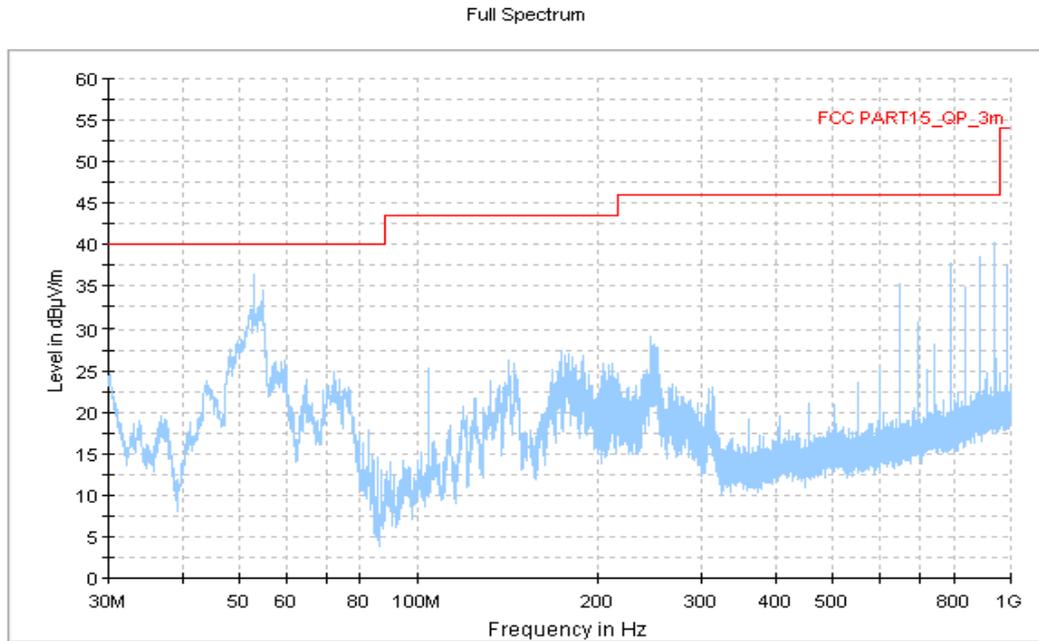


Figure A.27 Radiated Emission from 30MHz to 1GHz

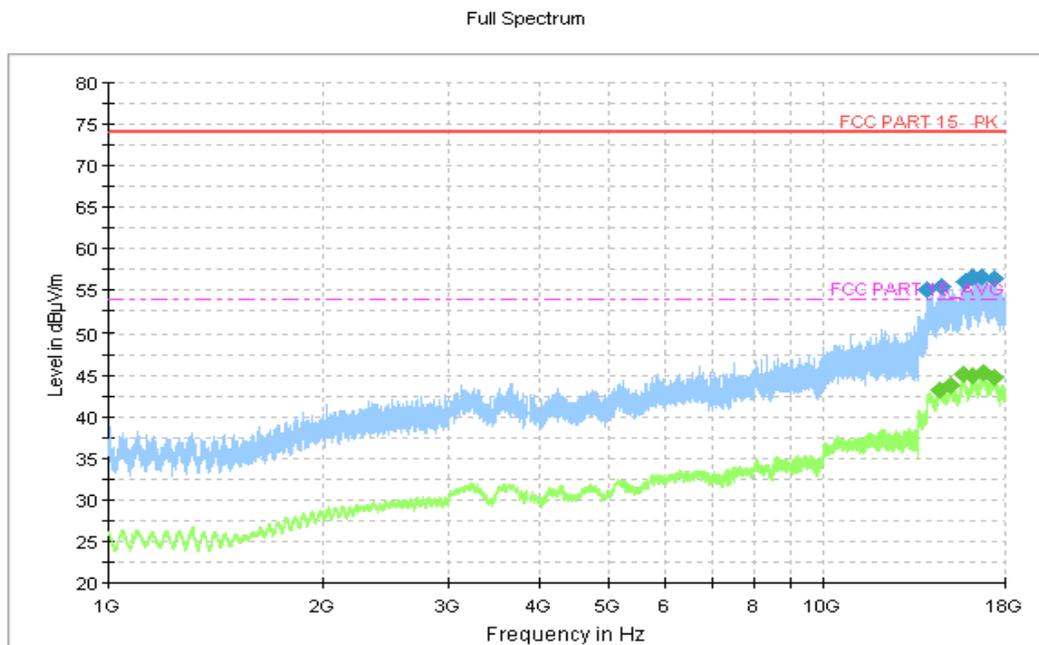


Figure A.28 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 15

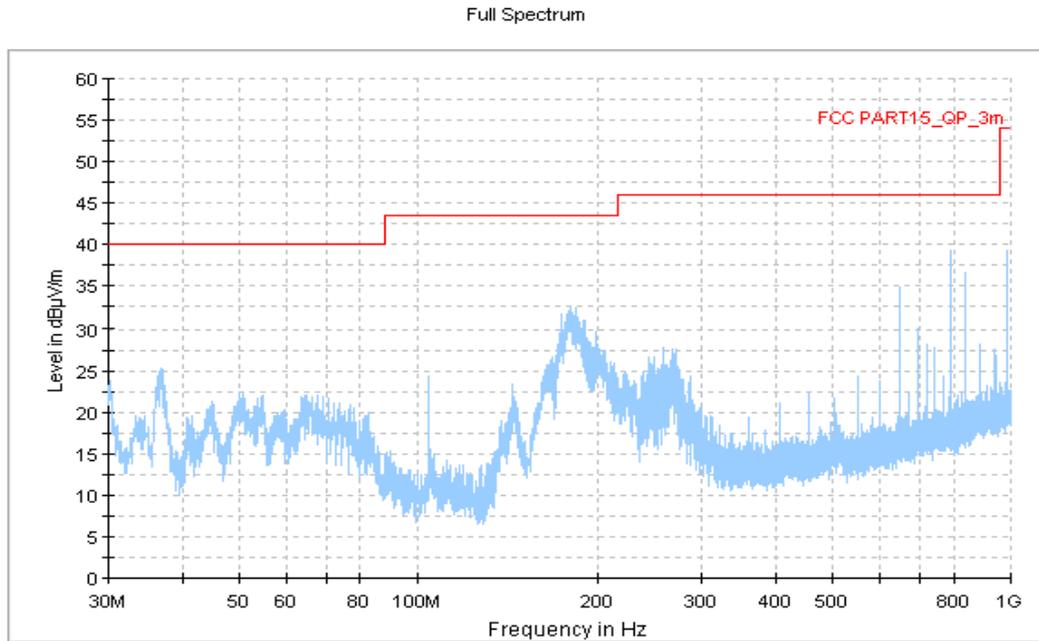


Figure A.29 Radiated Emission from 30MHz to 1GHz

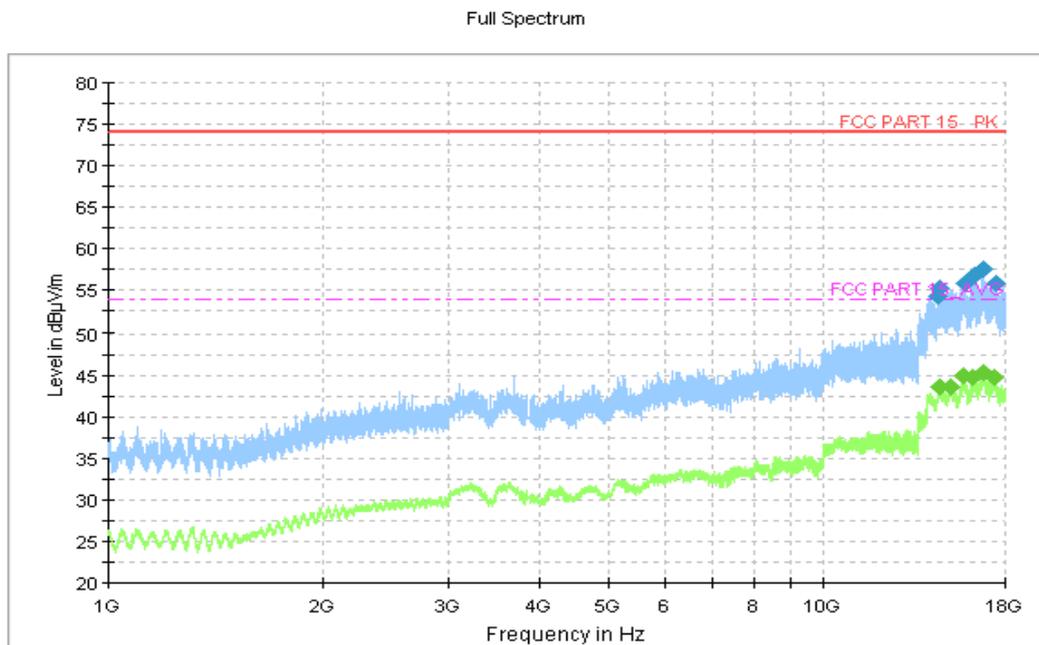


Figure A.30 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 16

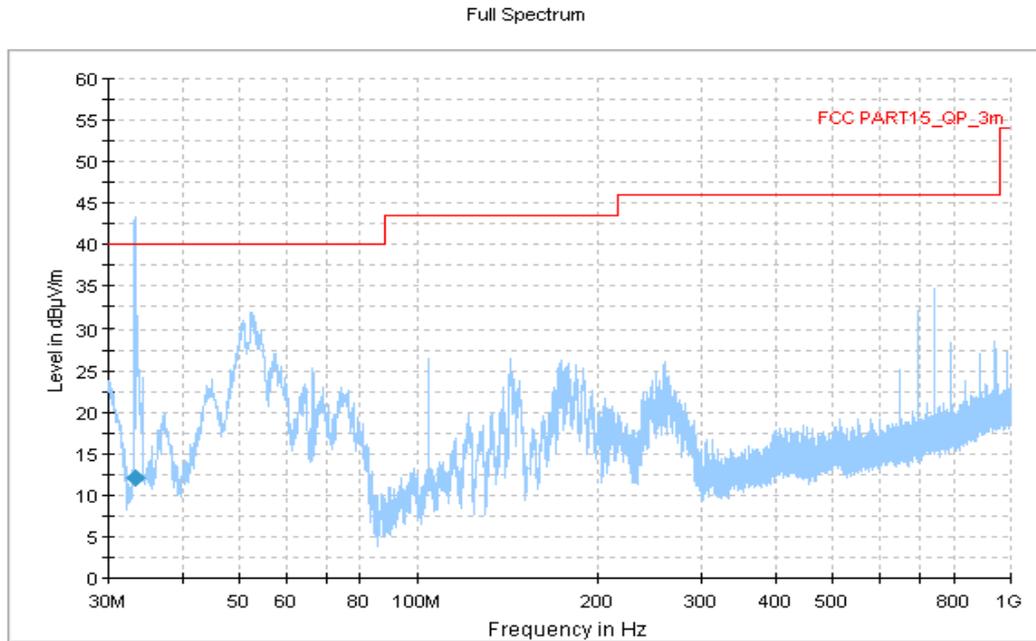


Figure A.31 Radiated Emission from 30MHz to 1GHz

Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
33.283000	12.12	40.00	27.88	V	-37.

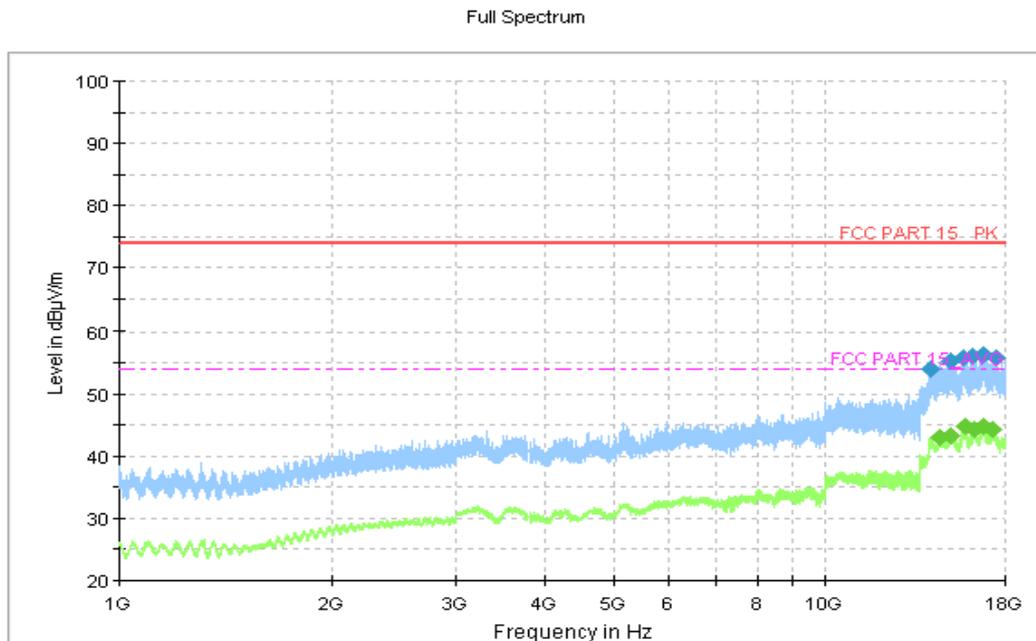


Figure A.32 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 17

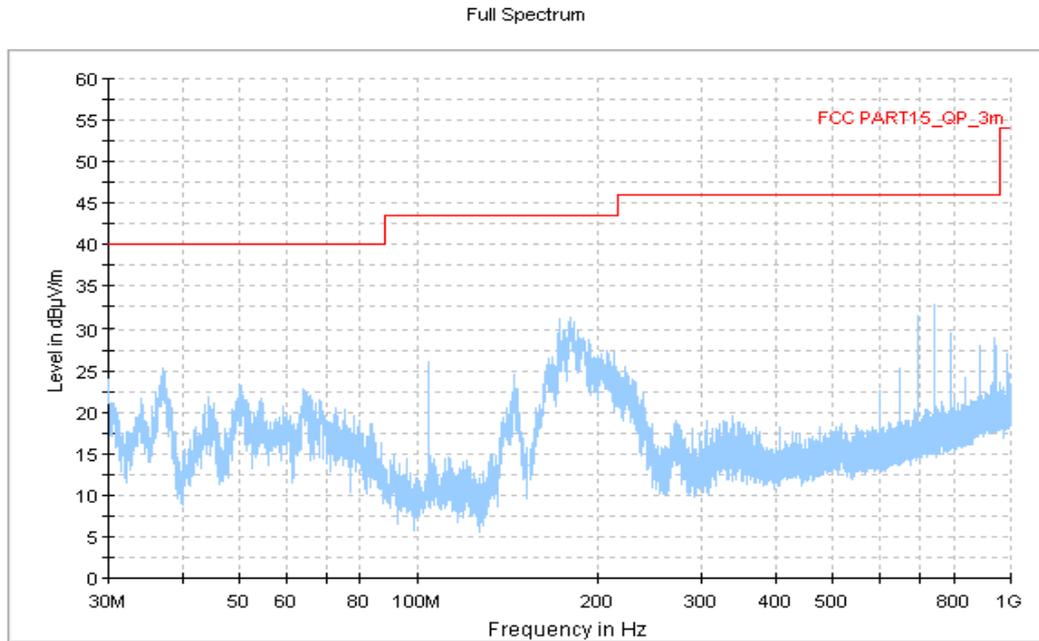


Figure A.33 Radiated Emission from 30MHz to 1GHz

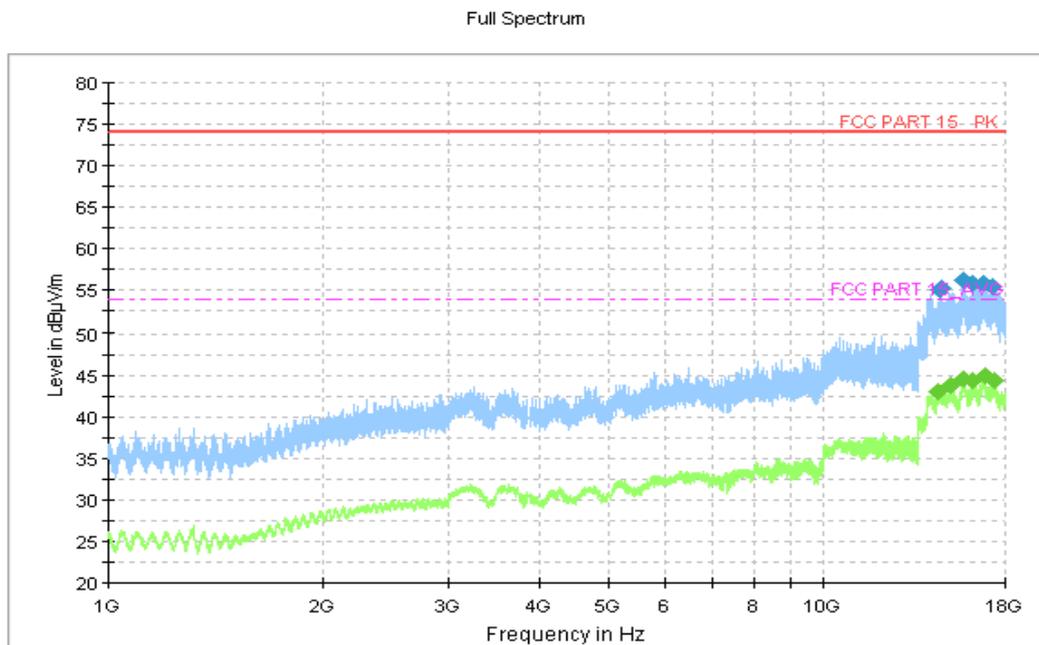


Figure A.34 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 18

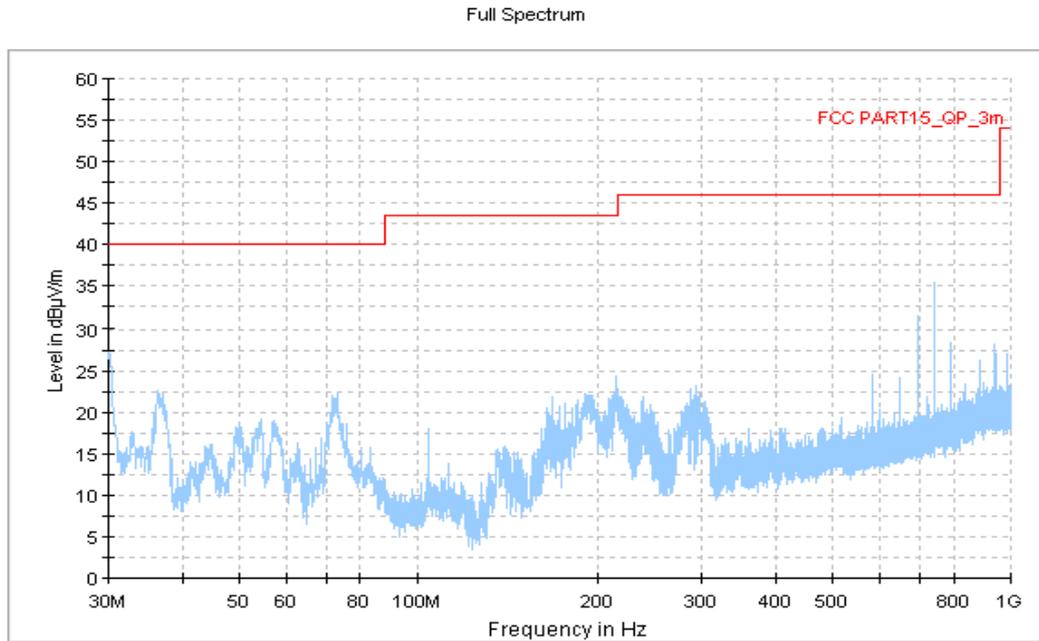


Figure A.35 Radiated Emission from 30MHz to 1GHz

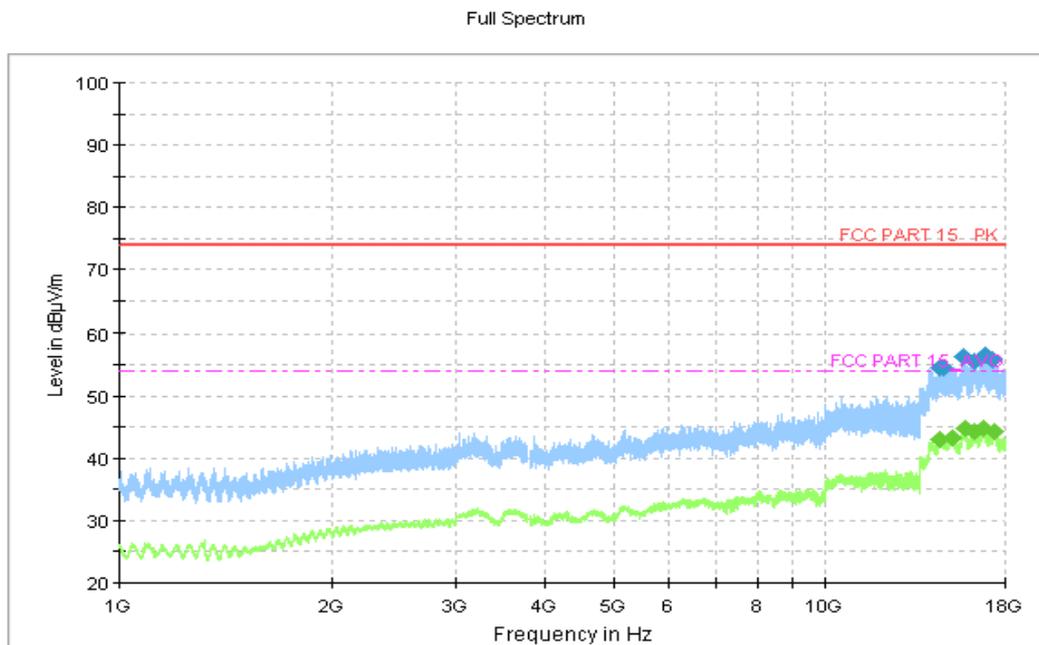


Figure A.36 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 19

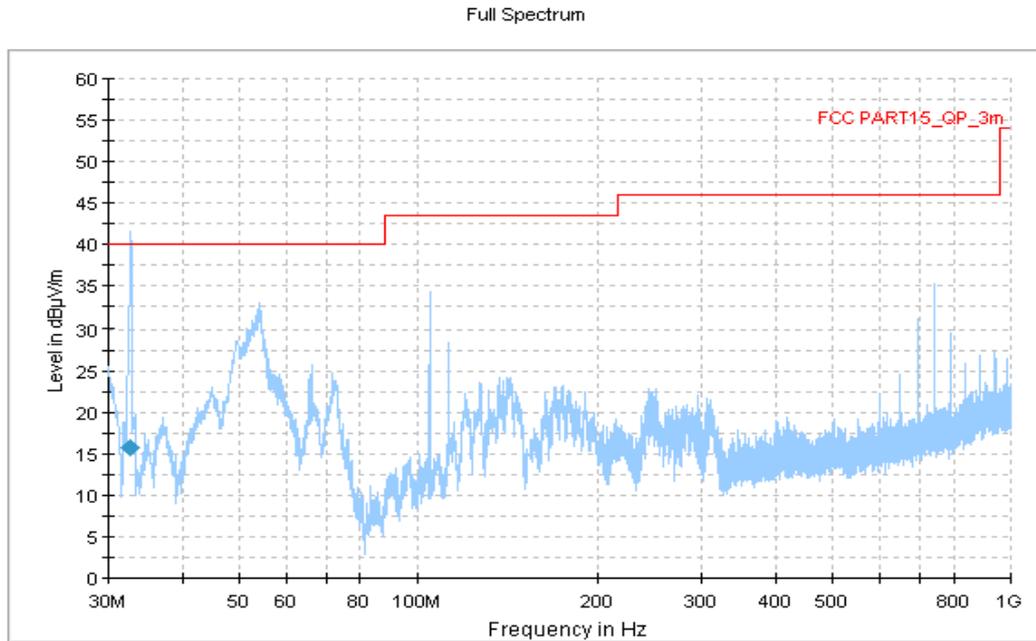


Figure A.37 Radiated Emission from 30MHz to 1GHz

Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
32.695000	15.69	40.00	24.31	V	-37.1

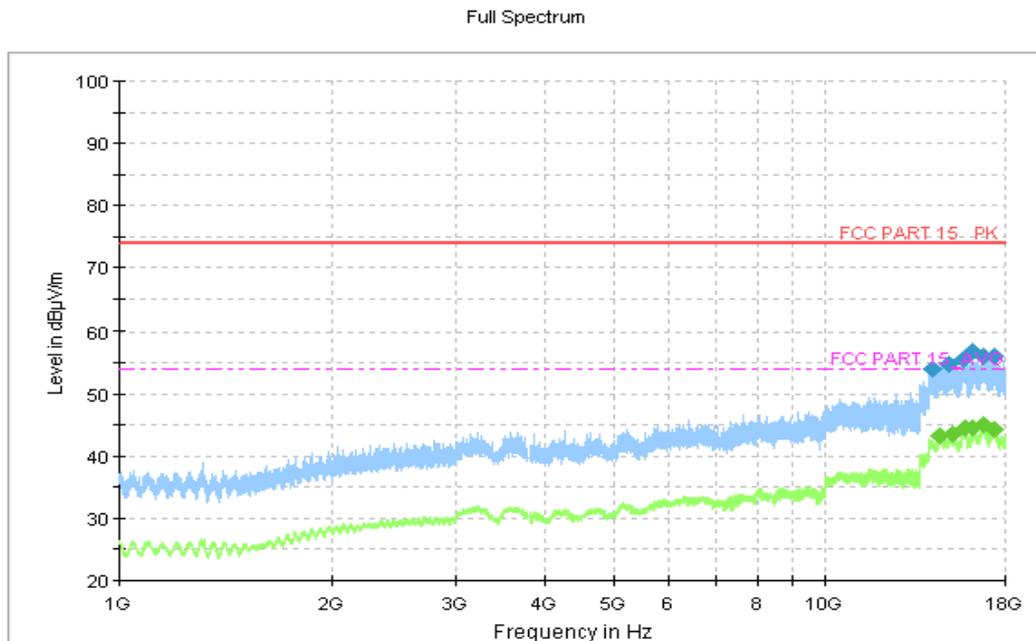


Figure A.38 Radiated Emission from 1GHz to 18GHz

Charging mode: Set 20

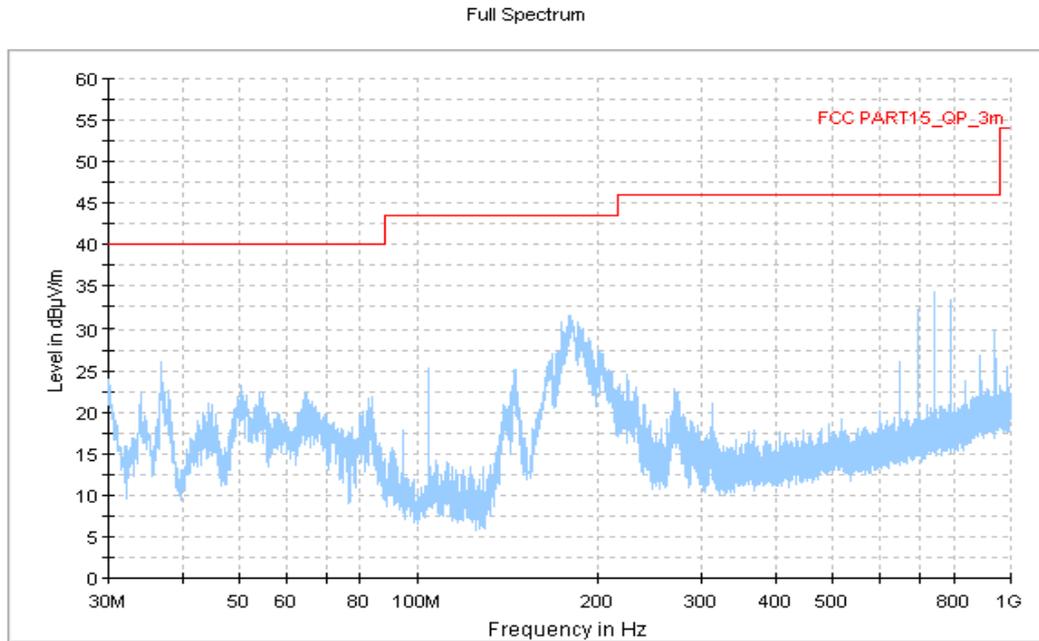


Figure A.39 Radiated Emission from 30MHz to 1GHz

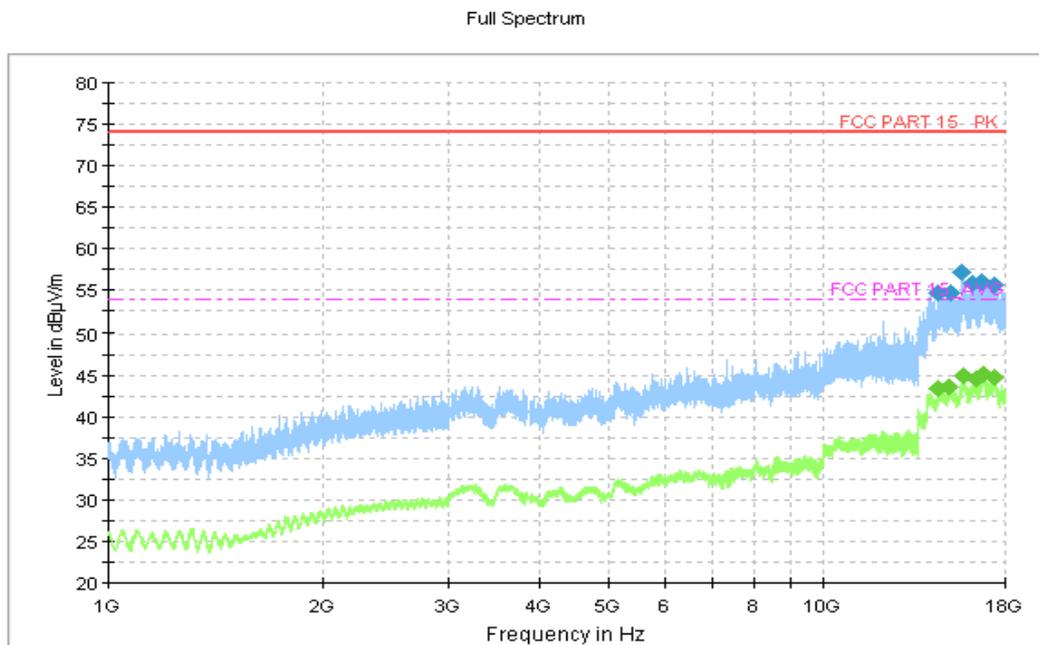


Figure A.40 Radiated Emission from 1GHz to 18GHz

USB mode: Set 21

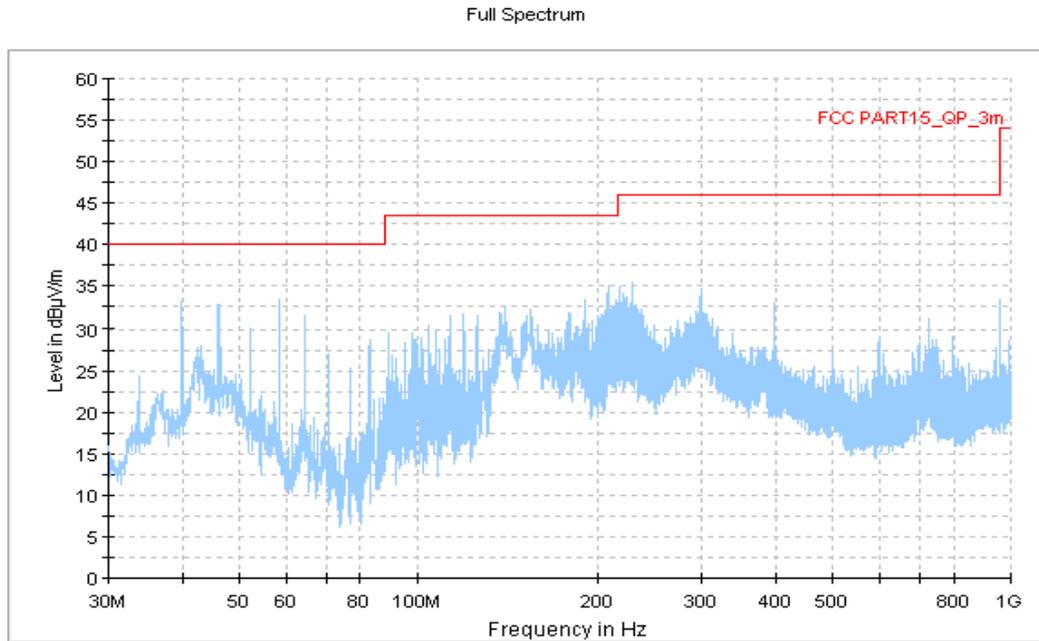


Figure A.41 Radiated Emission from 30MHz to 1GHz

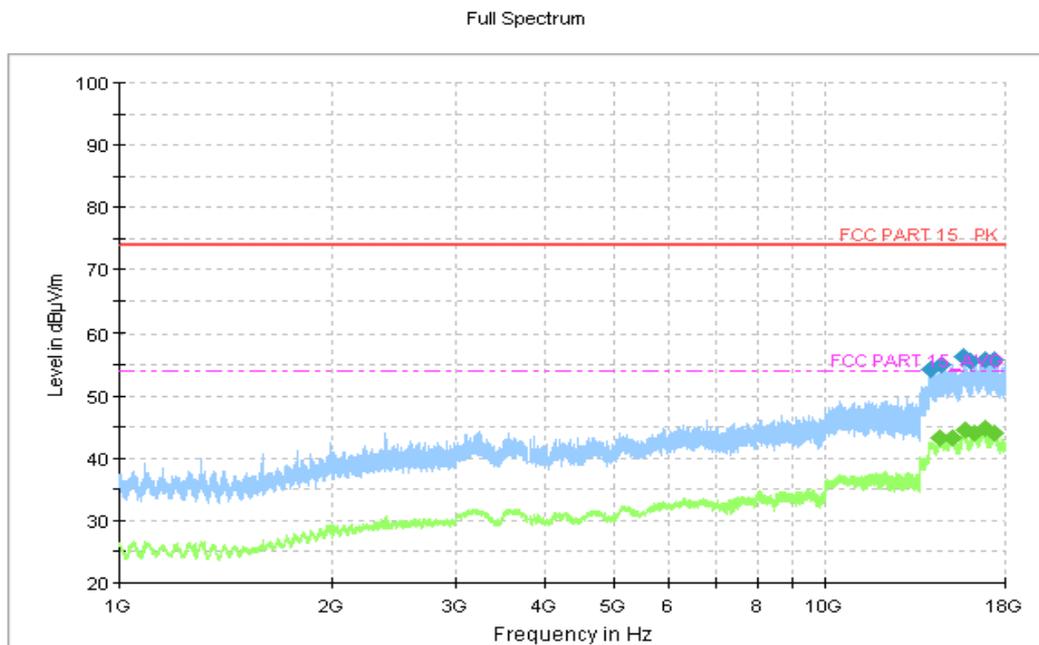
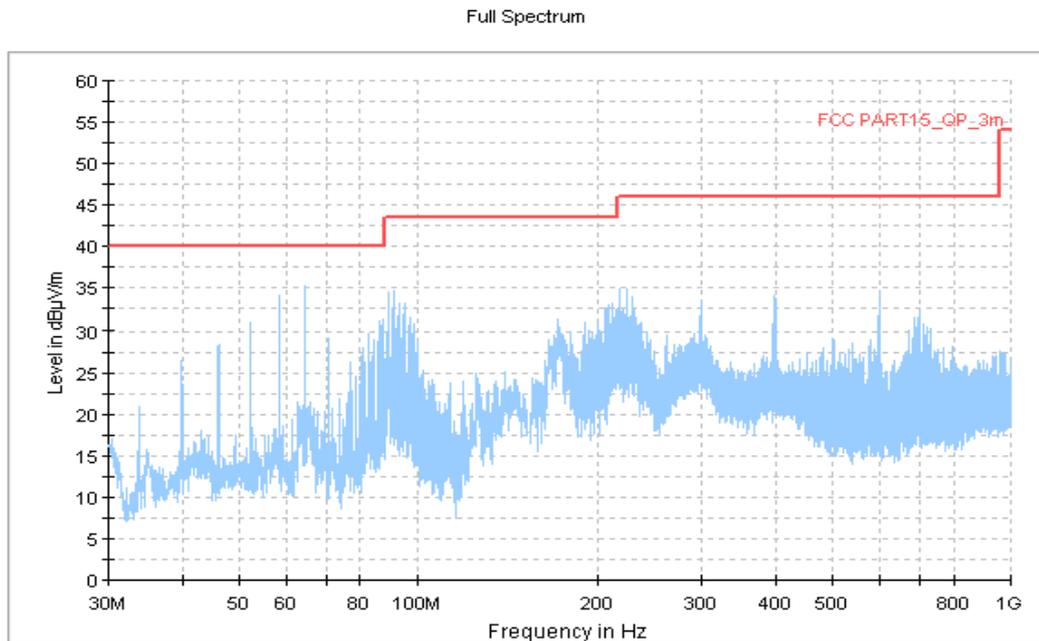
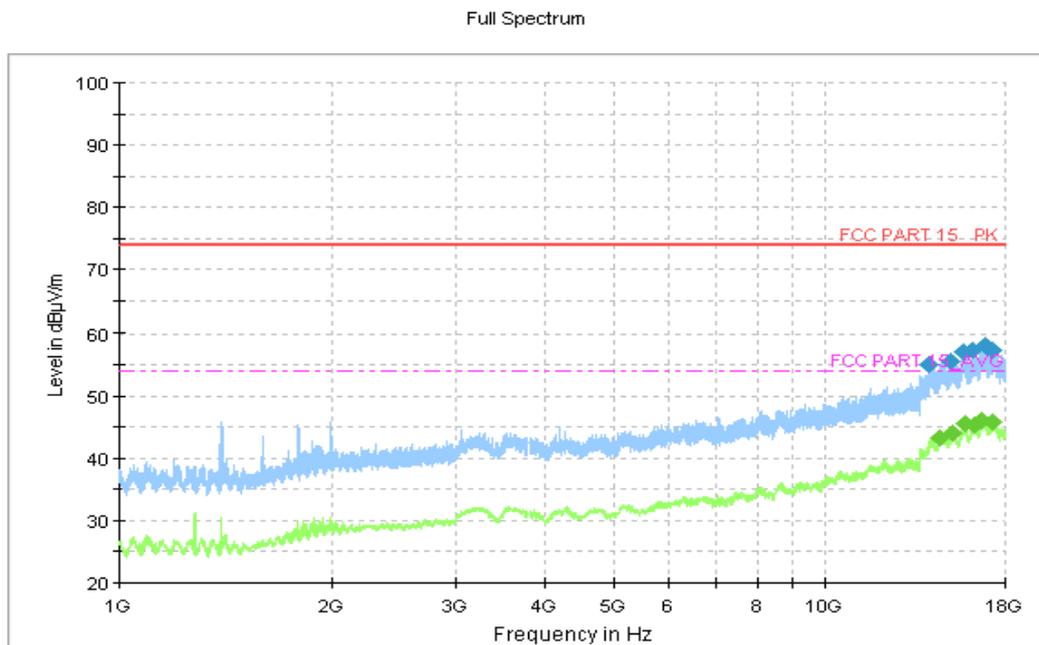


Figure A.42 Radiated Emission from 1GHz to 18GHz

USB mode: Set 22



**Figure A.43 Radiated Emission from 30MHz to 1GHz**



**Figure A.44 Radiated Emission from 1GHz to 18GHz**

USB mode: Set 23

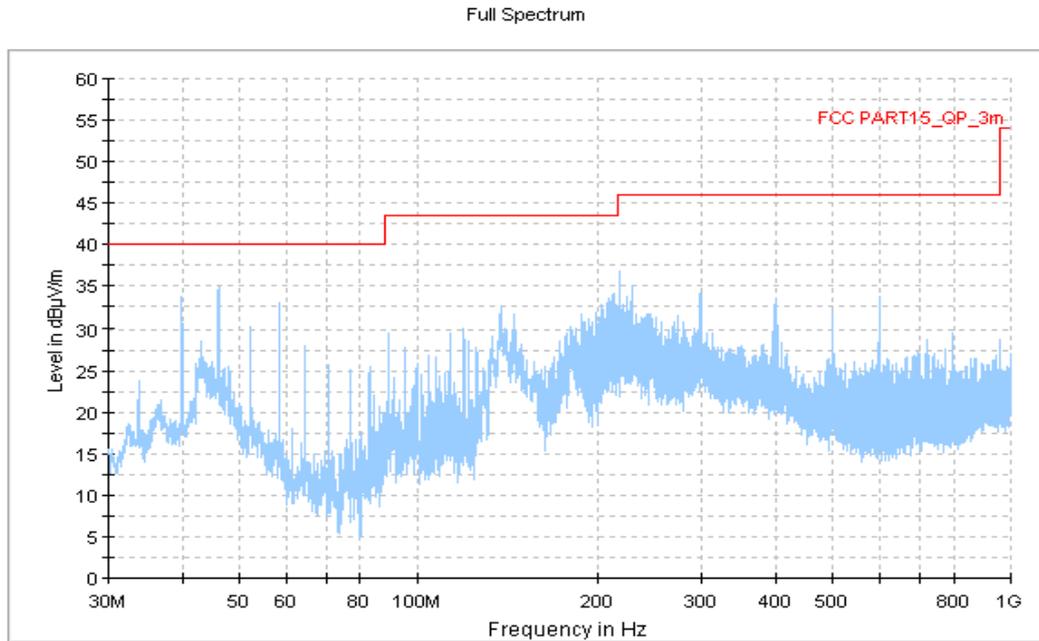


Figure A.45 Radiated Emission from 30MHz to 1GHz

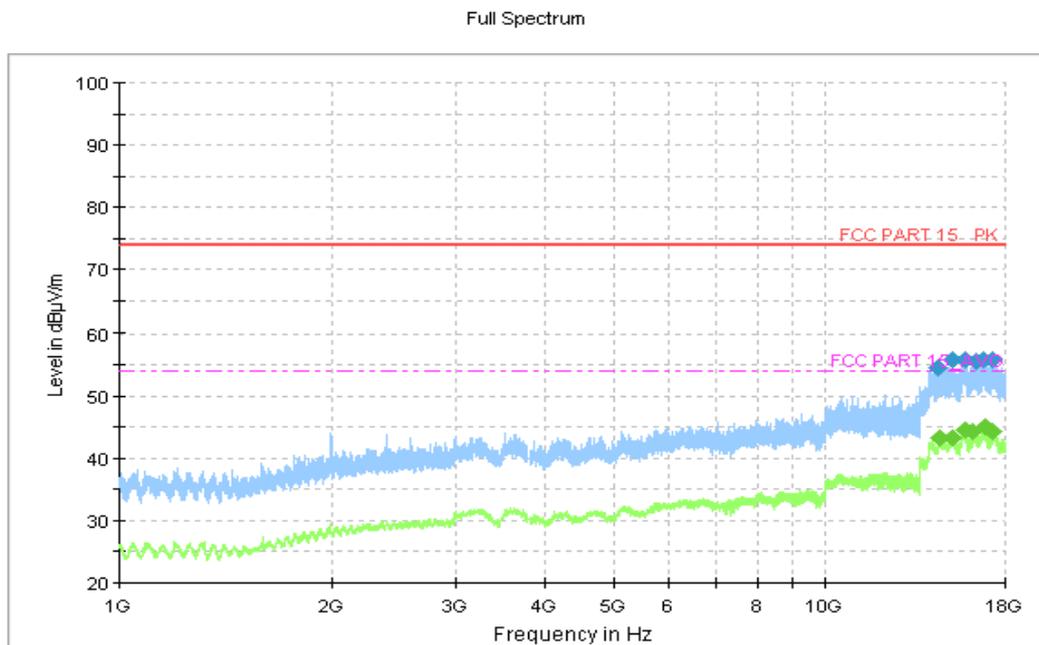


Figure A.46 Radiated Emission from 1GHz to 18GHz

USB mode: Set 24

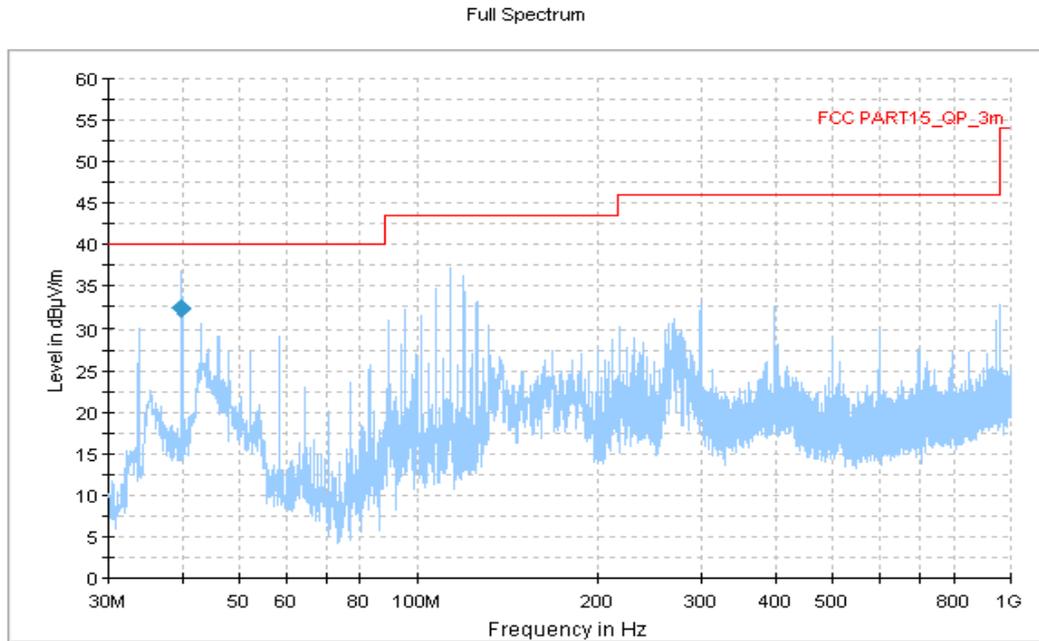


Figure A.47 Radiated Emission from 30MHz to 1GHz

Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin	Pol	Corr. (dB)
39.898000	32.48	40.00	7.52	V	-33.6

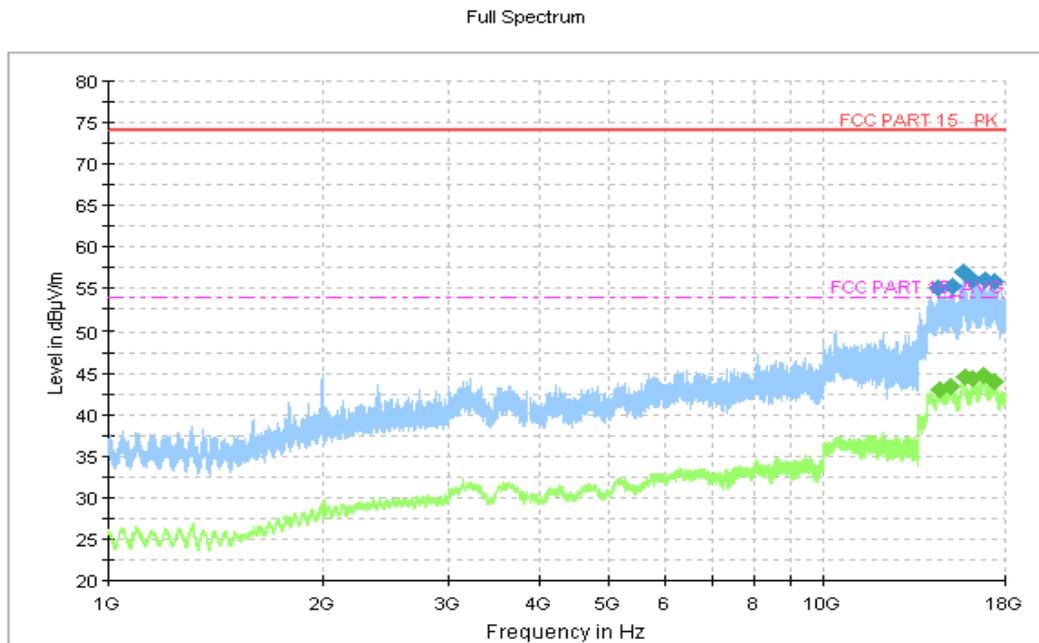


Figure A.48 Radiated Emission from 1GHz to 18GHz

USB mode: Set 25

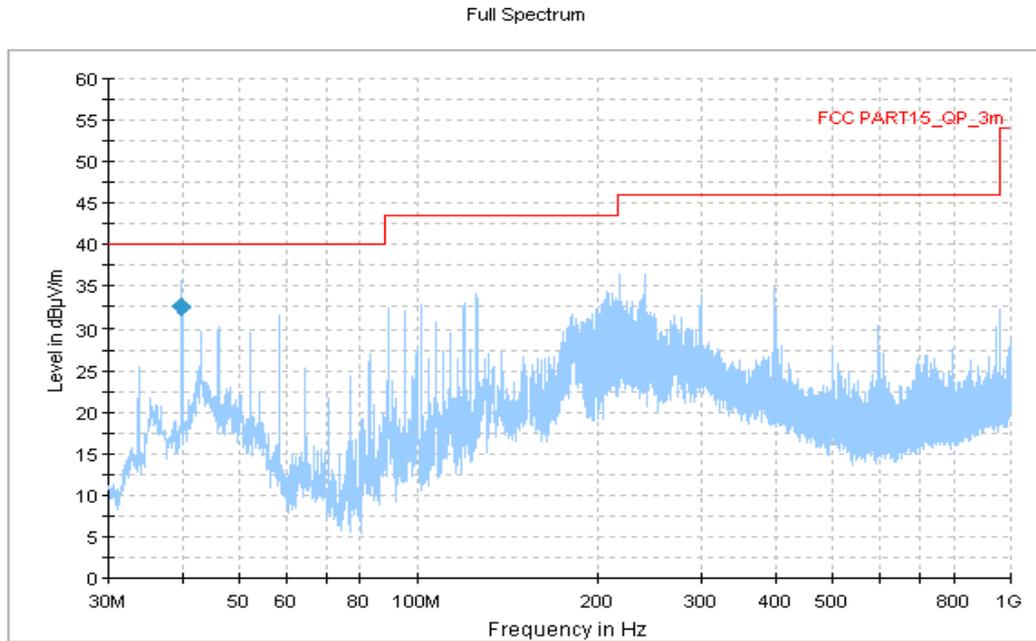


Figure A.49 Radiated Emission from 30MHz to 1GHz

Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin	P	Corr.
39.898000	32.67	40.00	7.33	V	-33.6

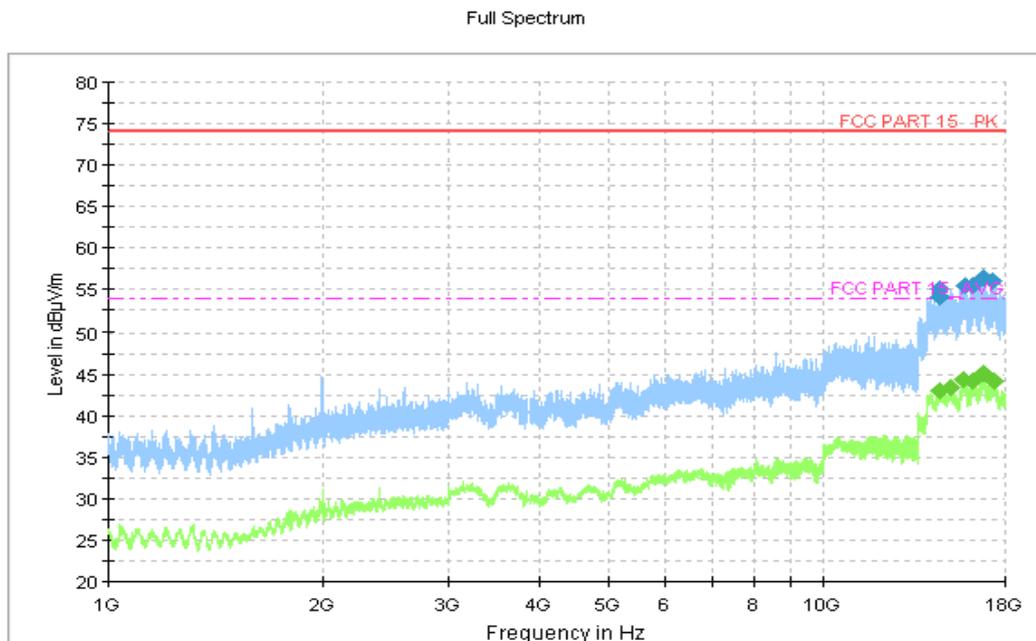


Figure A.50 Radiated Emission from 1GHz to 18GHz

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

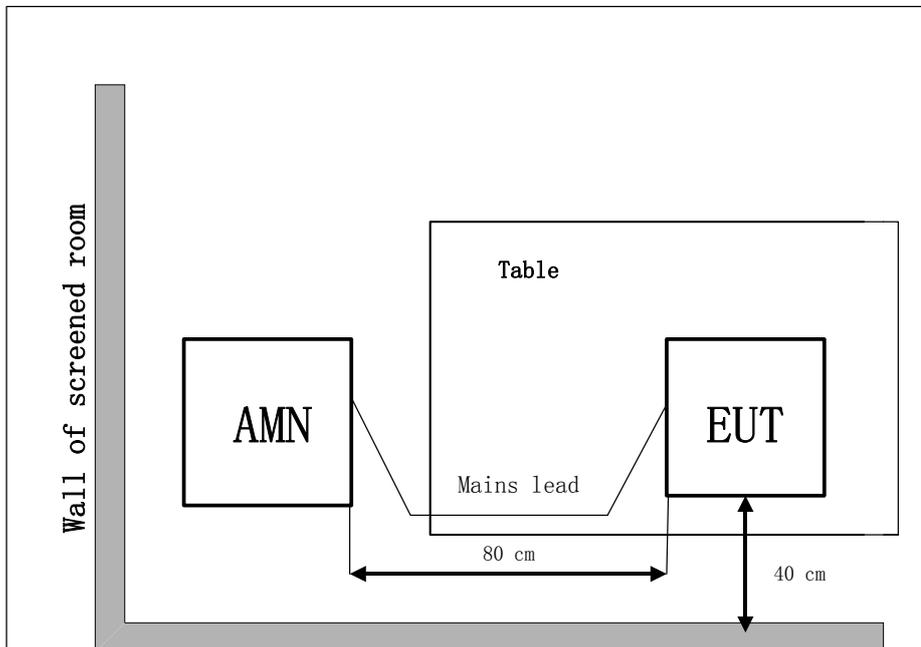
The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode. The model of the PC is Lenovo 2OET-A00DCD, and the serial number of the PC is PF-OIYDAK. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

**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 set-up:**



**A.2.5 Test Condition in charging mode**

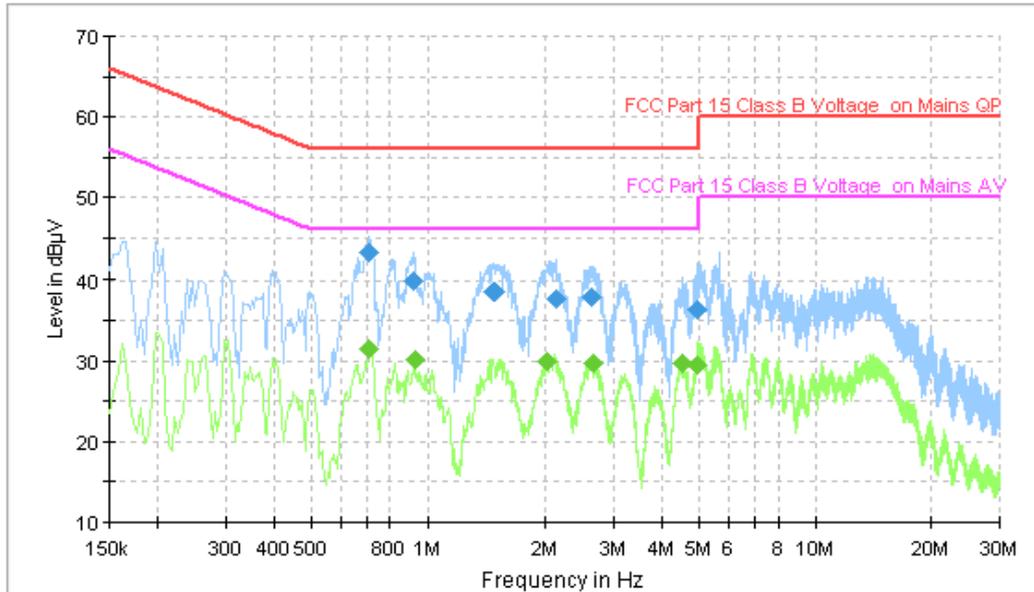
Voltage (V)	Frequency (Hz)
120	60
240	60

RBW	Sweep Time(s)
9kHz	1

**CE Measurement uncertainty:** 3.06 dB (k=2)

**A.2.6 Measurement Results**  
**Charging mode:Set.1**  
**Voltage:120V**

ESH2-Z5 Scan-FCC



**Figure A.51 Conducted Emission**

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.706000	43.1	GND	N	9.5	12.9	56.0
0.918000	39.8	GND	N	9.6	16.2	56.0
1.486000	38.5	GND	N	9.6	17.5	56.0
2.126000	37.8	GND	N	9.6	18.2	56.0
2.630000	37.8	GND	N	9.6	18.2	56.0
4.970000	36.3	GND	N	9.6	19.7	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.706000	31.6	GND	N	9.5	14.4	46.0
0.926000	30.2	GND	N	9.6	15.8	46.0
2.018000	29.9	GND	N	9.6	16.1	46.0
2.654000	29.7	GND	N	9.6	16.3	46.0
4.550000	29.8	GND	N	9.6	16.2	46.0
4.970000	29.4	GND	N	9.6	16.6	46.0

Charging mode: Set.2  
Voltage: 120V

ESH2-Z5 Scan-FCC

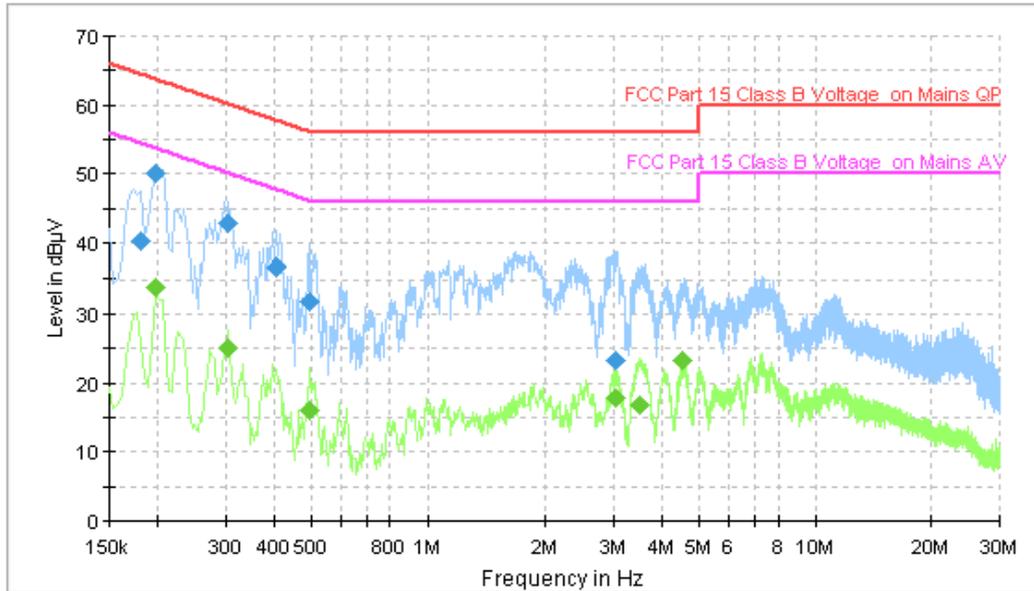


Figure A.52 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.182000	40.2	GND	N	9.6	24.2	64.4
0.198000	50.2	GND	N	9.6	13.5	63.7
0.306000	42.9	GND	N	9.6	17.2	60.1
0.406000	36.6	GND	N	9.7	21.2	57.7
0.498000	31.9	GND	N	9.7	24.2	56.0
3.038000	23.4	GND	N	9.6	32.6	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.198000	33.9	GND	N	9.6	19.8	53.7
0.306000	25.1	GND	N	9.6	24.9	50.1
0.498000	16.1	GND	N	9.7	29.9	46.0
3.042000	17.8	GND	N	9.6	28.2	46.0
3.498000	16.9	GND	N	9.6	29.1	46.0
4.522000	23.2	GND	N	9.6	22.8	46.0

Charging mode:Set.3  
Voltage:120V

ESH2-Z5 Scan-FCC

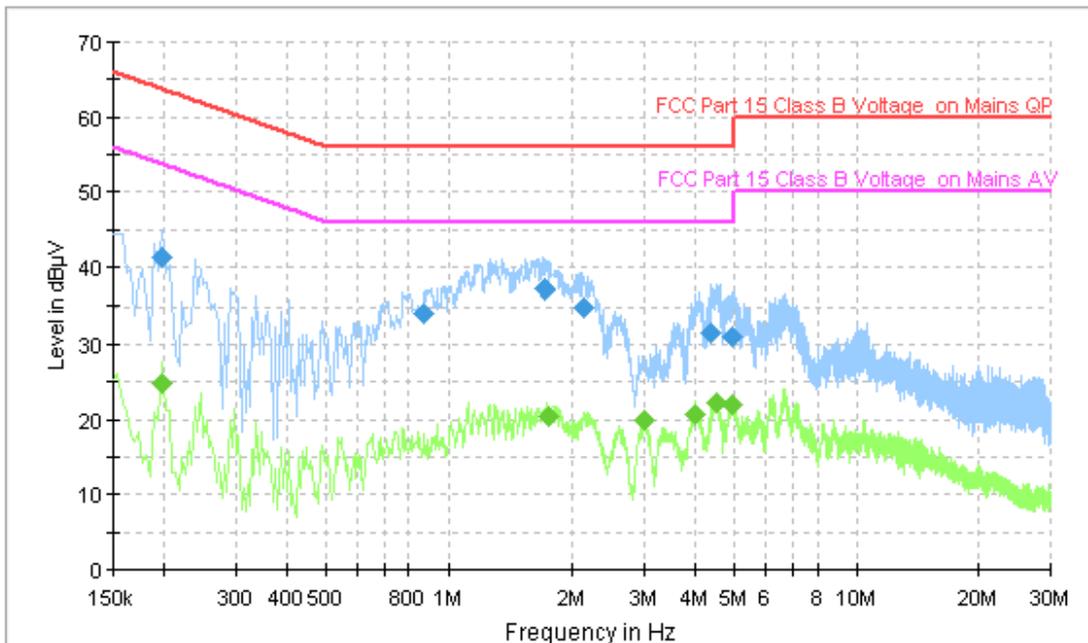


Figure A.53 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.198000	41.3	GND	N	9.6	22.4	63.7
0.870000	34.0	GND	N	9.6	22.0	56.0
1.710000	37.2	GND	N	9.6	18.8	56.0
2.126000	34.9	GND	N	9.6	21.1	56.0
4.382000	31.6	GND	N	9.6	24.4	56.0
4.918000	31.0	GND	N	9.6	25.0	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.198000	24.9	GND	N	9.6	28.8	53.7
1.750000	20.5	GND	N	9.6	25.5	46.0
2.994000	20.0	GND	N	9.6	26.0	46.0
4.022000	20.8	GND	N	9.6	25.2	46.0
4.530000	22.1	GND	N	9.6	23.9	46.0
4.962000	21.9	GND	N	9.6	24.1	46.0

Charging mode:Set.4  
Voltage:120V

ESH2-Z5 Scan-FCC

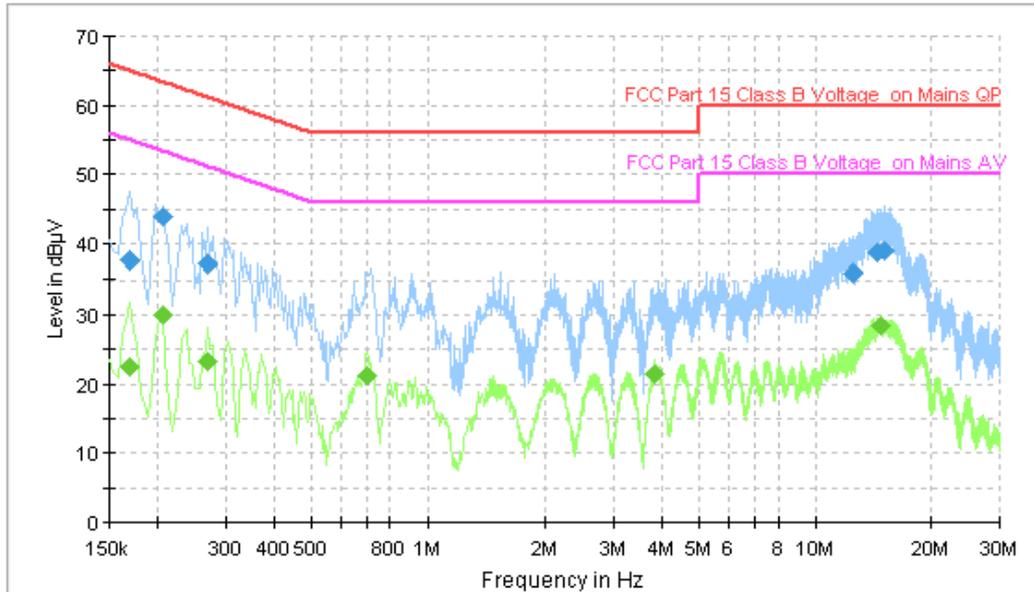


Figure A.54 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.170000	37.7	GND	N	9.6	27.3	65.0
0.206000	44.0	GND	N	9.6	19.3	63.4
0.270000	37.1	GND	N	9.6	24.0	61.1
12.514000	35.8	GND	N	9.9	24.2	60.0
14.466000	38.7	GND	N	9.9	21.3	60.0
15.146000	39.0	GND	N	9.9	21.0	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.170000	22.5	GND	N	9.6	32.4	55.0
0.206000	30.0	GND	N	9.6	23.3	53.4
0.270000	23.2	GND	N	9.6	27.9	51.1
0.698000	21.2	GND	N	9.5	24.8	46.0
3.854000	21.4	GND	N	9.6	24.6	46.0
14.766000	28.4	GND	N	9.9	21.6	50.0

Charging mode:Set.5  
Voltage:120V

ESH2-Z5 Scan-FCC

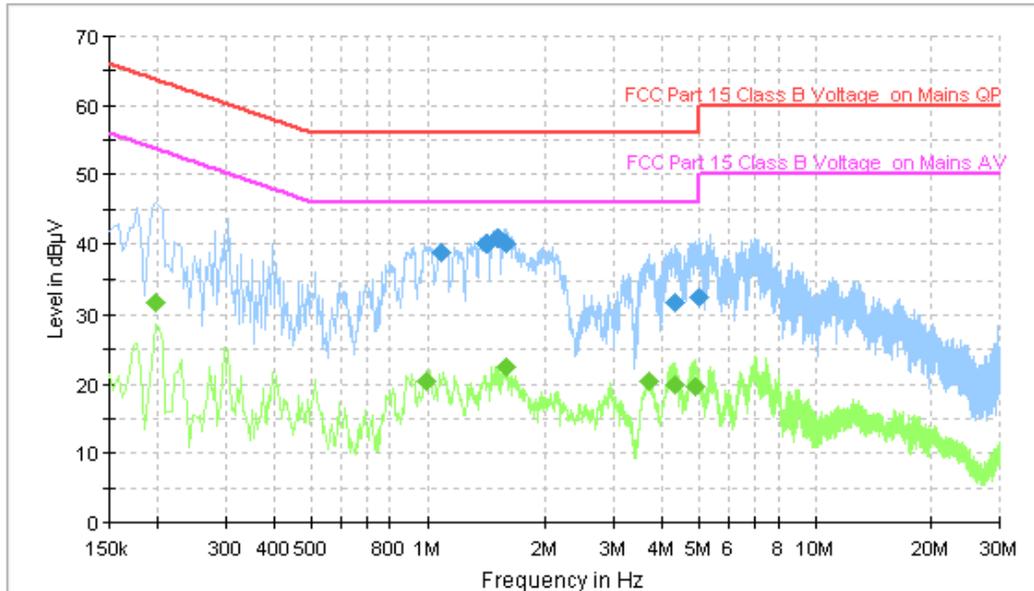


Figure A.55 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
1.086000	38.8	GND	N	9.6	17.2	56.0
1.410000	40.1	GND	N	9.5	15.9	56.0
1.514000	40.9	GND	N	9.6	15.2	56.0
1.578000	40.0	GND	N	9.6	16.0	56.0
4.326000	31.9	GND	N	9.6	24.1	56.0
4.990000	32.6	GND	N	9.6	23.4	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.198000	31.8	GND	N	9.6	21.9	53.7
0.998000	20.5	GND	N	9.5	25.5	46.0
1.578000	22.6	GND	N	9.6	23.4	46.0
3.702000	20.4	GND	N	9.6	25.6	46.0
4.326000	19.8	GND	N	9.6	26.2	46.0
4.914000	19.7	GND	N	9.6	26.3	46.0

Charging mode:Set.6  
Voltage:120V

ESH2-Z5 Scan-FCC

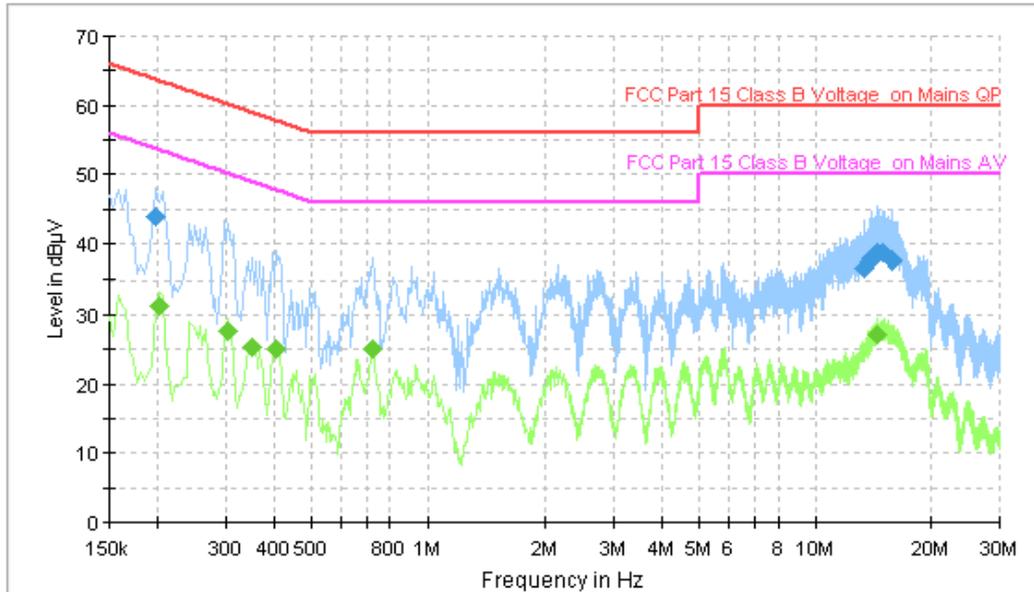


Figure A.56 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.198000	43.9	GND	N	9.6	19.8	63.7
13.430000	36.8	GND	N	9.9	23.2	60.0
13.994000	38.0	GND	N	9.9	22.0	60.0
14.462000	38.8	GND	N	9.9	21.2	60.0
14.926000	38.7	GND	N	9.9	21.3	60.0
15.822000	37.8	GND	N	9.9	22.2	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.202000	31.2	GND	N	9.6	22.3	53.5
0.306000	27.8	GND	N	9.6	22.3	50.1
0.350000	25.3	GND	N	9.6	23.7	49.0
0.406000	25.0	GND	N	9.7	22.7	47.7
0.722000	25.0	GND	N	9.5	21.0	46.0
14.462000	27.2	GND	N	9.9	22.8	50.0

Charging mode:Set.7  
Voltage:120V

ESH2-Z5 Scan-FCC

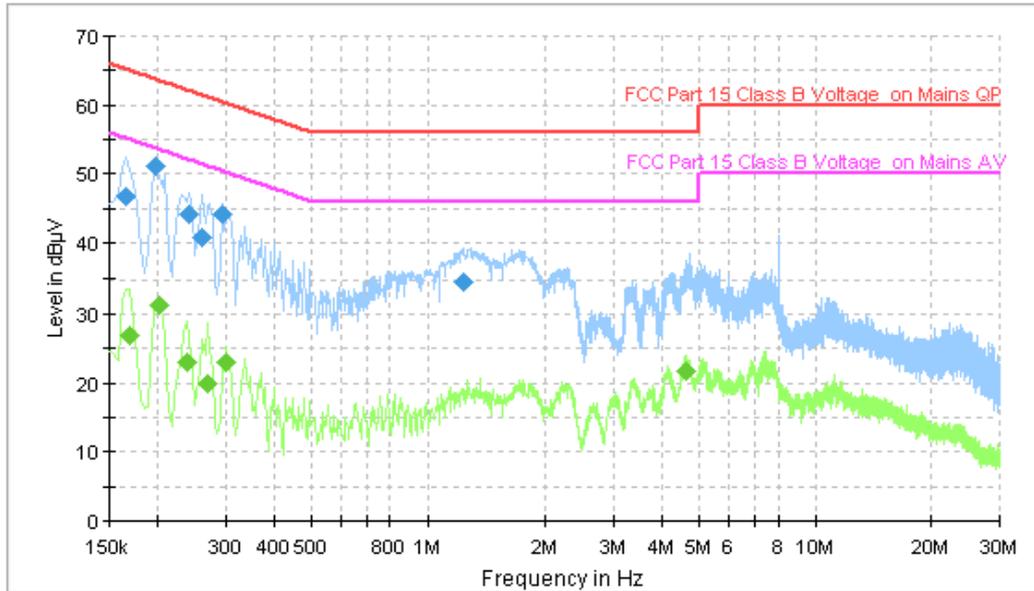


Figure A.57 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.166000	46.9	GND	N	9.6	18.3	65.2
0.198000	51.1	GND	N	9.6	12.6	63.7
0.242000	44.2	GND	N	9.6	17.9	62.0
0.262000	40.7	GND	N	9.6	20.7	61.4
0.294000	44.1	GND	N	9.6	16.3	60.4
1.242000	34.6	GND	N	9.6	21.4	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.170000	26.9	GND	N	9.6	28.1	55.0
0.202000	31.2	GND	N	9.6	22.3	53.5
0.238000	23.0	GND	N	9.6	29.2	52.2
0.270000	19.8	GND	N	9.6	31.3	51.1
0.302000	23.1	GND	N	9.6	27.1	50.2
4.642000	21.7	GND	N	9.6	24.3	46.0

Charging mode:Set.8  
Voltage:120V

ESH2-Z5 Scan-FCC

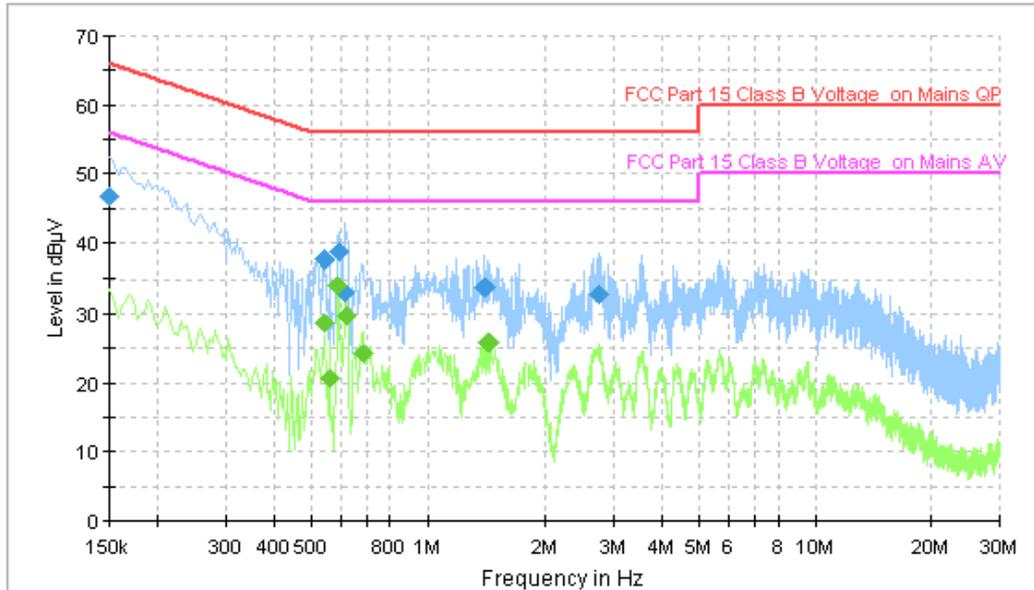


Figure A.58 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.150000	46.8	GND	N	9.6	19.2	66.0
0.542000	37.7	GND	N	9.7	18.3	56.0
0.590000	38.8	GND	N	9.6	17.2	56.0
0.610000	33.1	GND	N	9.6	22.9	56.0
1.406000	33.8	GND	N	9.5	22.2	56.0
2.742000	32.7	GND	N	9.6	23.3	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.542000	28.7	GND	N	9.7	17.3	46.0
0.558000	20.7	GND	N	9.7	25.3	46.0
0.586000	34.2	GND	N	9.6	11.8	46.0
0.618000	29.6	GND	N	9.6	16.4	46.0
0.682000	24.2	GND	N	9.5	21.8	46.0
1.438000	25.7	GND	N	9.5	20.3	46.0

Charging mode:Set.9  
Voltage:120V

ESH2-Z5 Scan-FCC

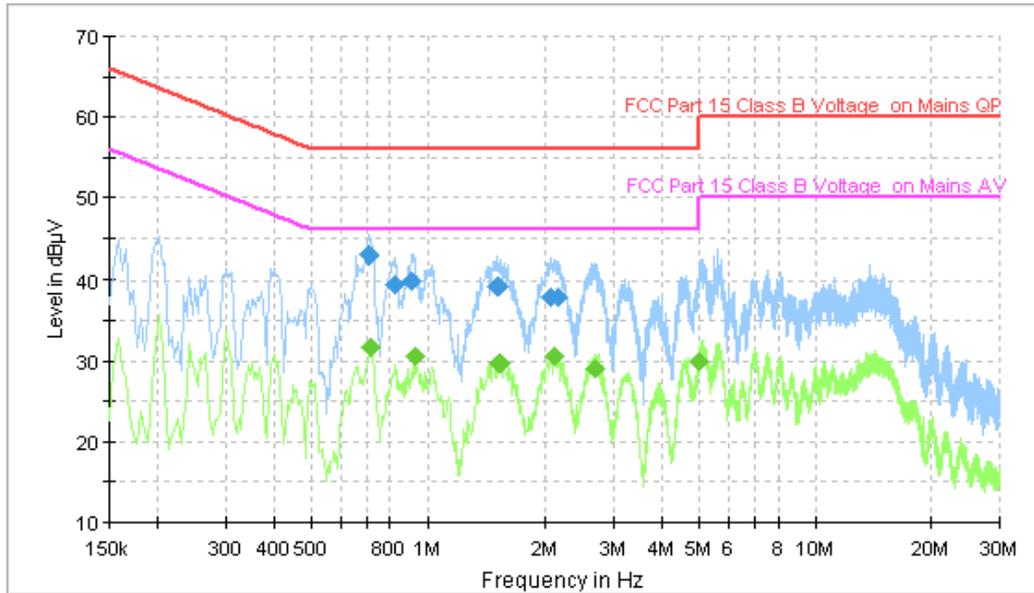


Figure A.59 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.706000	43.0	GND	N	9.5	13.0	56.0
0.822000	39.5	GND	N	9.5	16.5	56.0
0.910000	39.8	GND	N	9.6	16.2	56.0
1.510000	39.2	GND	N	9.6	16.8	56.0
2.070000	37.8	GND	N	9.6	18.2	56.0
2.162000	37.9	GND	N	9.6	18.1	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.710000	31.7	GND	N	9.5	14.3	46.0
0.926000	30.6	GND	N	9.6	15.4	46.0
1.534000	29.7	GND	N	9.6	16.3	46.0
2.118000	30.5	GND	N	9.6	15.5	46.0
2.698000	28.9	GND	N	9.6	17.1	46.0
4.994000	29.9	GND	N	9.6	16.1	46.0

Charging mode:Set.10  
Voltage:120V

ESH2-Z5 Scan-FCC

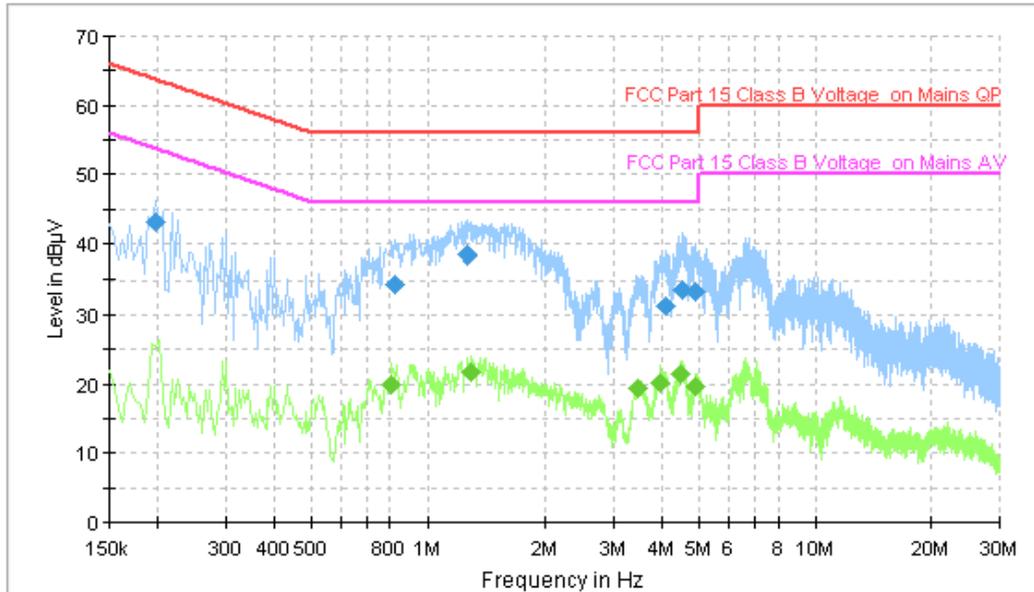


Figure A.60 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.198000	43.1	GND	N	9.6	20.6	63.7
0.826000	34.3	GND	N	9.5	21.7	56.0
1.266000	38.5	GND	N	9.6	17.5	56.0
4.118000	31.3	GND	N	9.6	24.7	56.0
4.538000	33.5	GND	N	9.6	22.5	56.0
4.882000	33.3	GND	N	9.6	22.7	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.810000	20.0	GND	N	9.6	26.0	46.0
1.298000	21.6	GND	N	9.6	24.4	46.0
3.466000	19.4	GND	N	9.6	26.6	46.0
3.974000	20.3	GND	N	9.6	25.7	46.0
4.478000	21.3	GND	N	9.6	24.7	46.0
4.882000	19.6	GND	N	9.6	26.4	46.0

Charging mode:Set.11  
Voltage:120V

ESH2-Z5 Scan-FCC

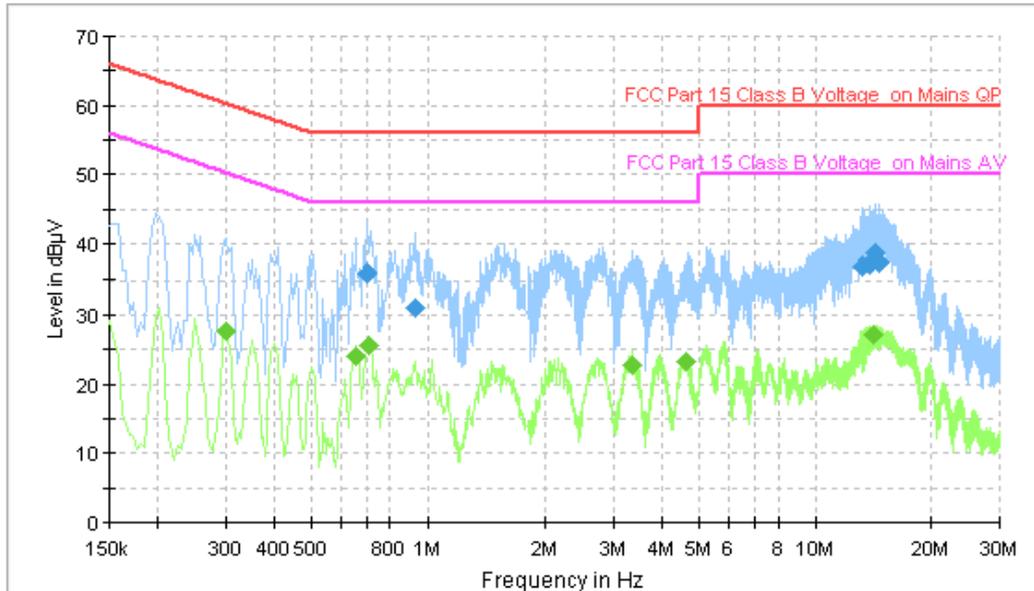


Figure A.61 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.698000	35.8	GND	N	9.5	20.2	56.0
0.934000	31.1	GND	N	9.6	24.9	56.0
13.302000	37.0	GND	N	9.9	23.0	60.0
13.838000	37.2	GND	N	9.9	22.8	60.0
14.262000	38.8	GND	N	9.9	21.2	60.0
14.582000	37.4	GND	N	9.9	22.6	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.302000	27.5	GND	N	9.6	22.6	50.2
0.650000	24.1	GND	N	9.6	21.9	46.0
0.706000	25.5	GND	N	9.5	20.5	46.0
3.358000	22.6	GND	N	9.6	23.4	46.0
4.638000	23.2	GND	N	9.6	22.8	46.0
14.162000	27.1	GND	N	9.9	22.9	50.0

Charging mode:Set.12  
Voltage:120V

ESH2-Z5 Scan-FCC

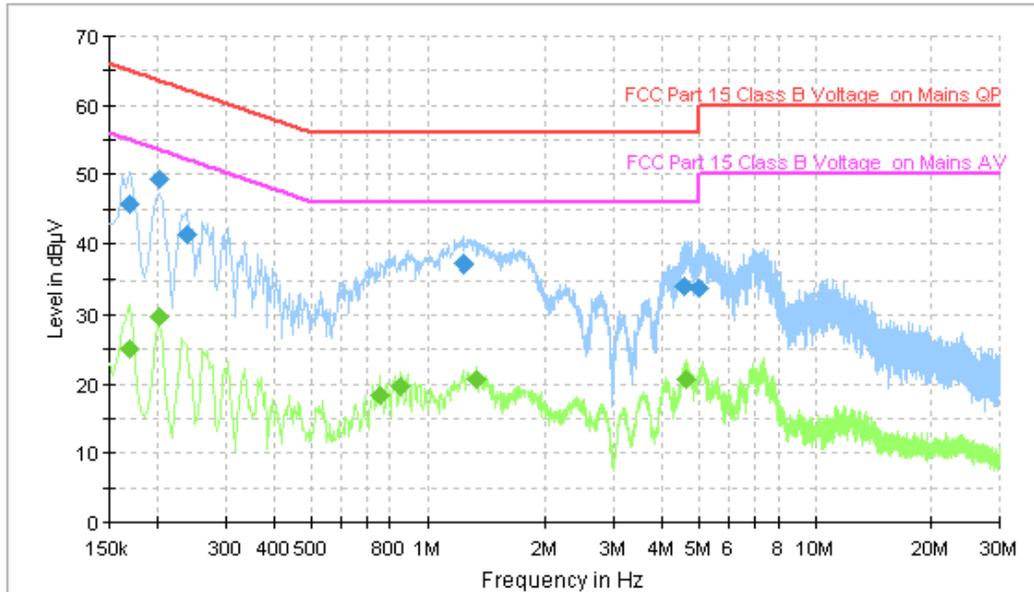


Figure A.62 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.170000	45.8	GND	N	9.6	19.2	65.0
0.202000	49.5	GND	N	9.6	14.1	63.5
0.238000	41.4	GND	N	9.6	20.7	62.2
1.238000	37.1	GND	N	9.6	18.9	56.0
4.590000	34.0	GND	N	9.6	22.0	56.0
4.982000	33.9	GND	N	9.6	22.1	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.170000	25.0	GND	N	9.6	30.0	55.0
0.202000	29.6	GND	N	9.6	23.9	53.5
0.754000	18.4	GND	N	9.6	27.6	46.0
0.854000	19.7	GND	N	9.5	26.3	46.0
1.338000	20.6	GND	N	9.6	25.4	46.0
4.606000	20.6	GND	N	9.6	25.4	46.0

Charging mode:Set.13  
Voltage:120V

ESH2-Z5 Scan-FCC

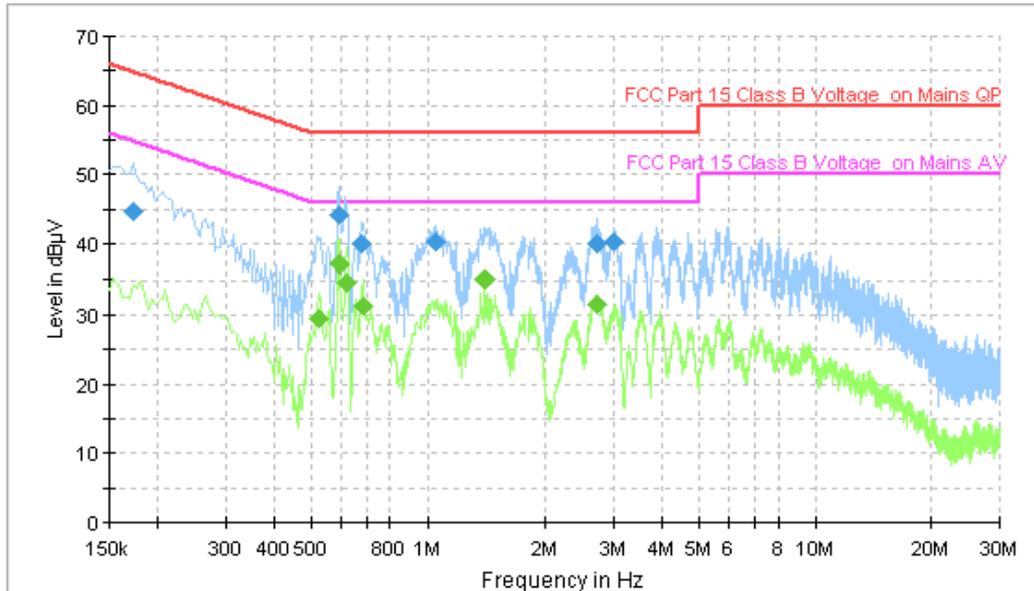


Figure A.63 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.174000	44.7	GND	N	9.6	20.1	64.8
0.590000	44.2	GND	N	9.6	11.8	56.0
0.674000	40.0	GND	N	9.5	16.0	56.0
1.046000	40.3	GND	N	9.5	15.7	56.0
2.710000	40.0	GND	N	9.6	16.0	56.0
3.010000	40.3	GND	N	9.6	15.7	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.526000	29.4	GND	N	9.7	16.6	46.0
0.590000	37.3	GND	N	9.6	8.7	46.0
0.618000	34.6	GND	N	9.6	11.4	46.0
0.682000	31.1	GND	N	9.5	14.9	46.0
1.406000	35.2	GND	N	9.5	10.8	46.0
2.726000	31.5	GND	N	9.6	14.5	46.0

Charging mode:Set.14  
Voltage:120V

ESH2-Z5 Scan-FCC

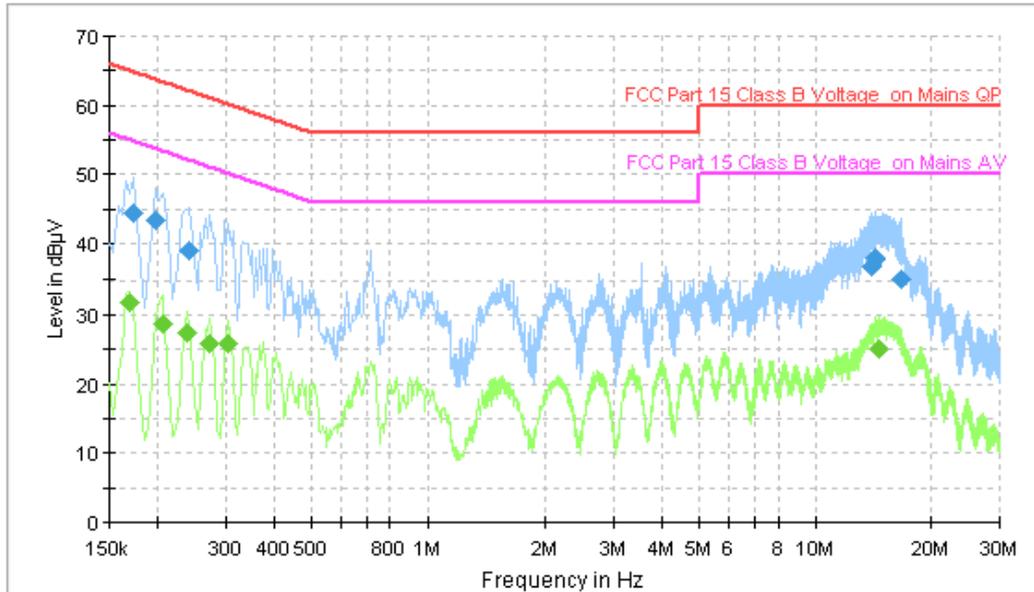


Figure A.64 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.174000	44.3	GND	N	9.6	20.4	64.8
0.198000	43.3	GND	N	9.6	20.4	63.7
0.242000	39.1	GND	N	9.6	22.9	62.0
14.030000	36.9	GND	N	9.9	23.1	60.0
14.274000	37.9	GND	N	9.9	22.1	60.0
16.634000	35.1	GND	N	9.9	24.9	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.170000	31.9	GND	N	9.6	23.1	55.0
0.206000	28.8	GND	N	9.6	24.6	53.4
0.238000	27.5	GND	N	9.6	24.7	52.2
0.274000	25.8	GND	N	9.6	25.2	51.0
0.306000	25.9	GND	N	9.6	24.1	50.1
14.542000	25.1	GND	N	9.9	24.9	50.0

Charging mode:Set.15  
Voltage:120V

ESH2-Z5 Scan-FCC

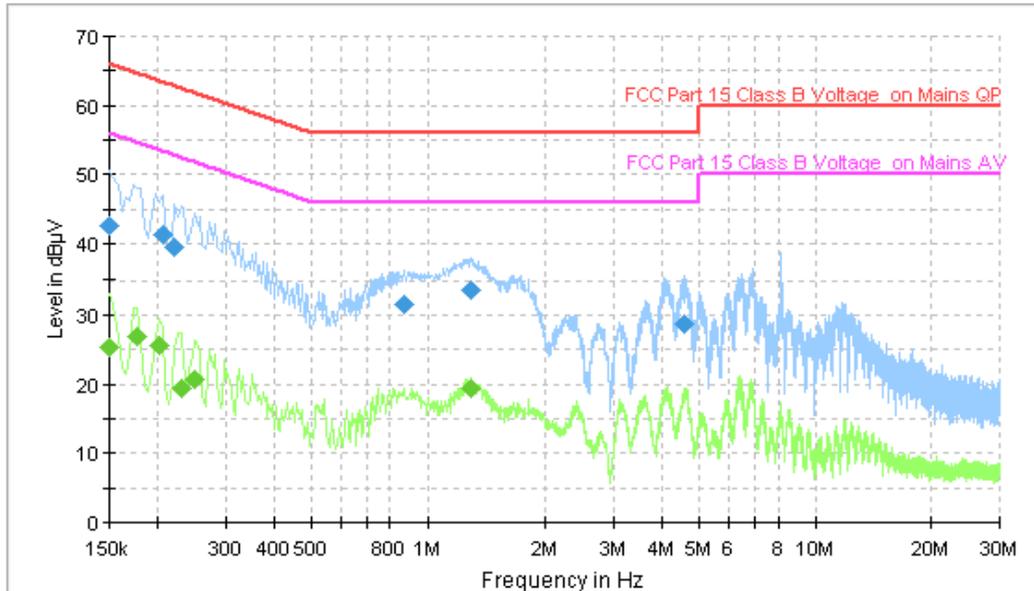


Figure A.65 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.150000	42.5	GND	N	9.6	23.5	66.0
0.206000	41.3	GND	N	9.6	22.0	63.4
0.222000	39.6	GND	N	9.6	23.1	62.7
0.874000	31.5	GND	N	9.6	24.5	56.0
1.294000	33.5	GND	N	9.6	22.5	56.0
4.558000	28.6	GND	N	9.6	27.4	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.150000	25.3	GND	N	9.6	30.7	56.0
0.178000	26.8	GND	N	9.6	27.8	54.6
0.202000	25.7	GND	N	9.6	27.9	53.5
0.230000	19.4	GND	N	9.6	33.1	52.4
0.250000	20.6	GND	N	9.6	31.2	51.8
1.294000	19.3	GND	N	9.6	26.7	46.0

Charging mode:Set.16  
Voltage:120V

ESH2-Z5 Scan-FCC

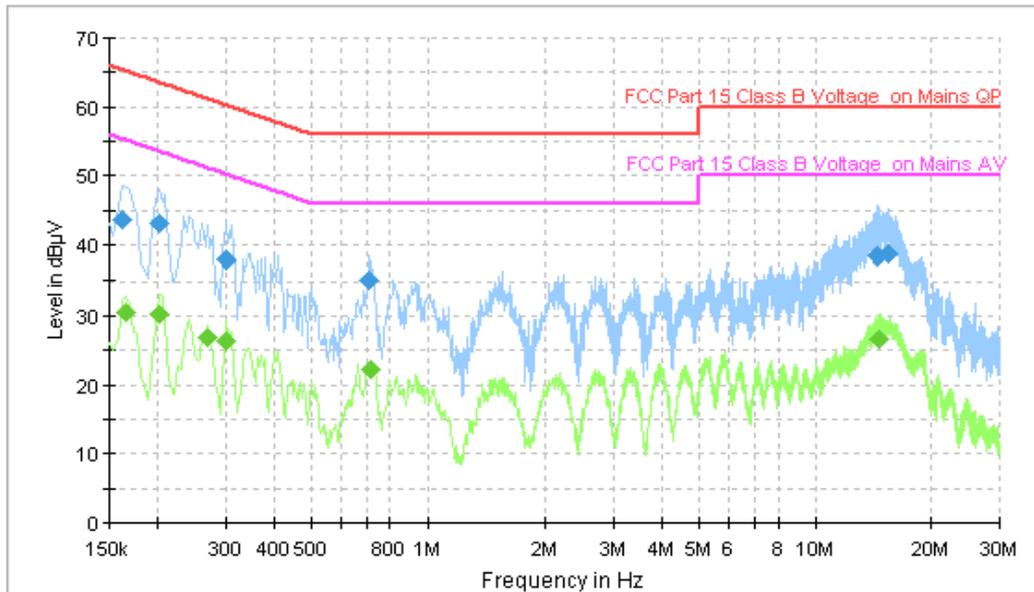


Figure A.66 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.162000	43.6	GND	N	9.6	21.7	65.4
0.202000	43.2	GND	N	9.6	20.3	63.5
0.302000	38.0	GND	N	9.6	22.2	60.2
0.706000	35.2	GND	N	9.5	20.8	56.0
14.522000	38.4	GND	N	9.9	21.6	60.0
15.454000	38.7	GND	N	9.9	21.3	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.166000	30.4	GND	N	9.6	24.8	55.2
0.202000	30.3	GND	N	9.6	23.2	53.5
0.270000	26.9	GND	N	9.6	24.2	51.1
0.302000	26.3	GND	N	9.6	23.8	50.2
0.714000	22.1	GND	N	9.5	23.9	46.0
14.570000	26.6	GND	N	9.9	23.4	50.0

Charging mode:Set.17  
Voltage:120V

ESH2-Z5 Scan-FCC

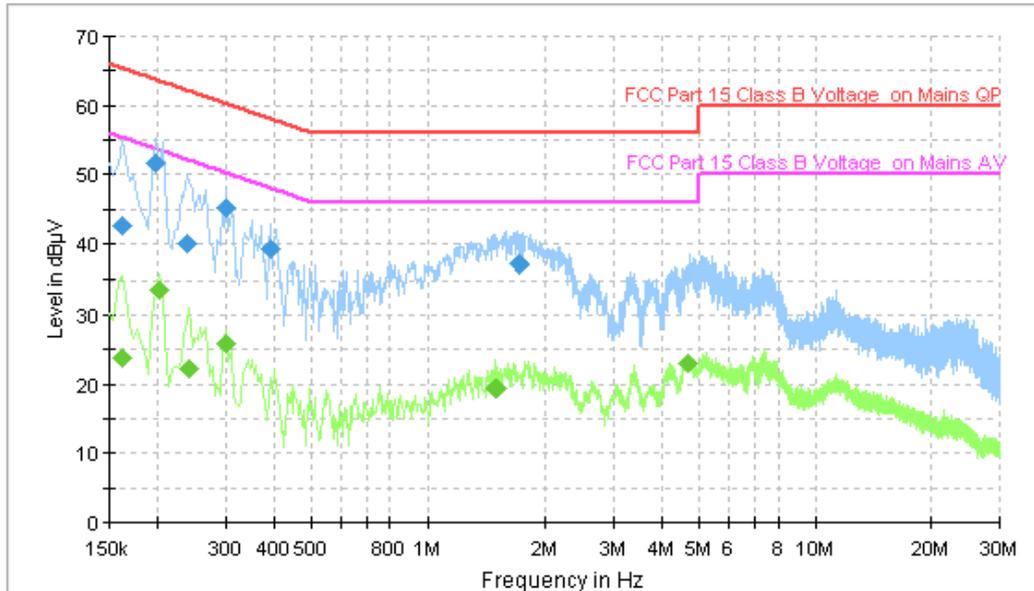


Figure A.67 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.162000	42.7	GND	N	9.6	22.6	65.4
0.198000	51.6	GND	N	9.6	12.1	63.7
0.238000	39.9	GND	N	9.6	22.3	62.2
0.302000	45.2	GND	N	9.6	15.0	60.2
0.394000	39.2	GND	N	9.6	18.8	58.0
1.702000	37.2	GND	N	9.6	18.8	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.162000	23.7	GND	N	9.6	31.6	55.4
0.202000	33.5	GND	N	9.6	20.1	53.5
0.242000	22.2	GND	N	9.6	29.9	52.0
0.302000	25.8	GND	N	9.6	24.4	50.2
1.494000	19.3	GND	N	9.6	26.7	46.0
4.694000	23.0	GND	N	9.6	23.0	46.0

Charging mode:Set.18  
Voltage:120V

ESH2-Z5 Scan-FCC

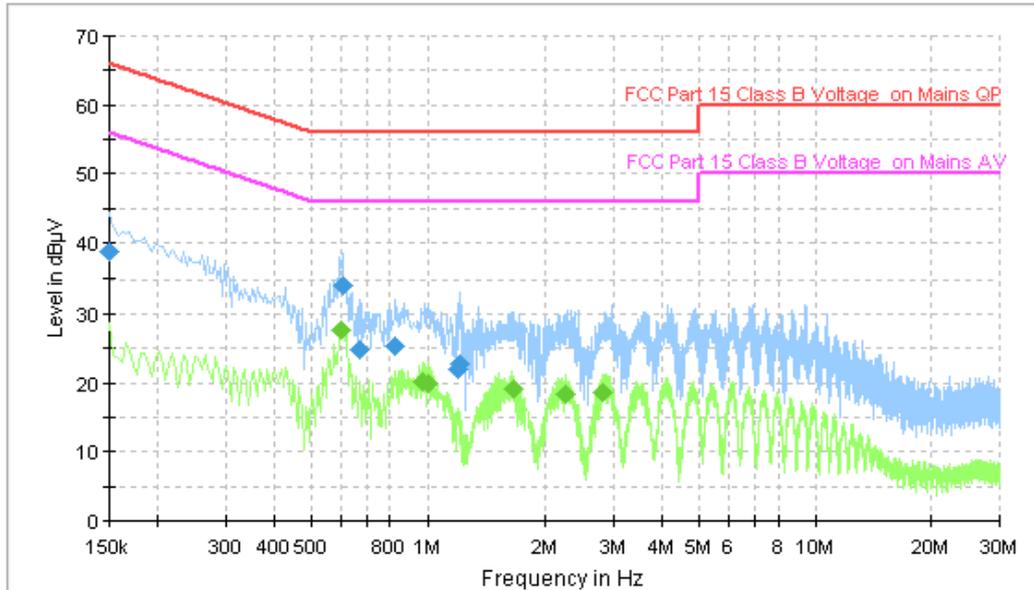


Figure A.68 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.150000	38.6	GND	N	9.6	27.4	66.0
0.602000	34.0	GND	N	9.6	22.0	56.0
0.666000	24.7	GND	N	9.5	31.3	56.0
0.826000	25.4	GND	N	9.5	30.6	56.0
1.198000	21.9	GND	N	9.5	34.1	56.0
1.210000	22.8	GND	N	9.5	33.2	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.598000	27.6	GND	N	9.6	18.4	46.0
0.970000	20.3	GND	N	9.6	25.7	46.0
1.006000	19.9	GND	N	9.5	26.1	46.0
1.658000	19.1	GND	N	9.5	26.9	46.0
2.262000	18.4	GND	N	9.6	27.6	46.0
2.798000	18.7	GND	N	9.6	27.3	46.0

Charging mode:Set.19  
Voltage:120V

ESH2-Z5 Scan-FCC

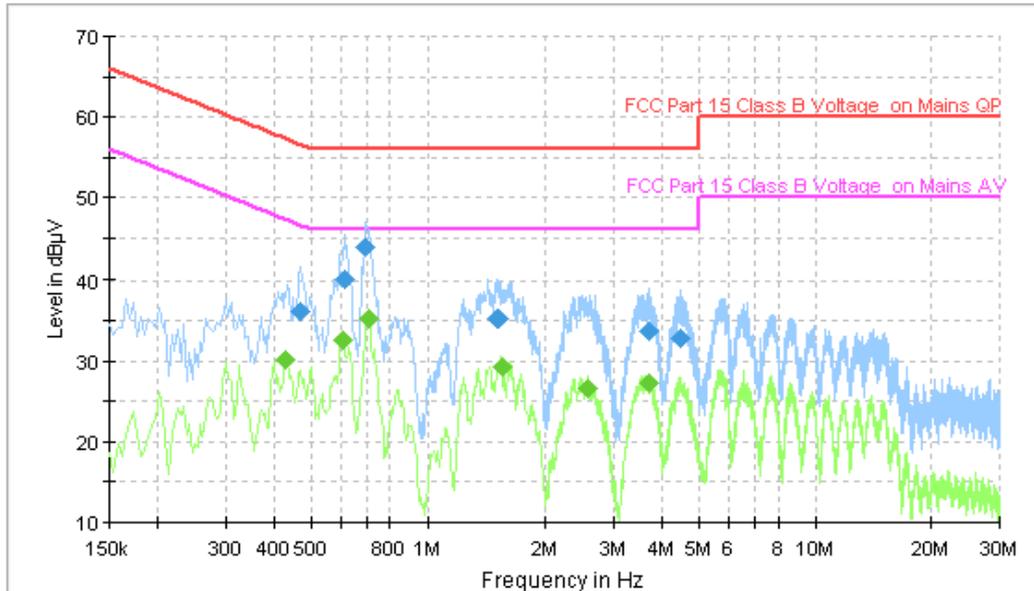


Figure A.69 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.470000	36.1	GND	N	9.7	20.4	56.5
0.610000	40.1	GND	N	9.6	15.9	56.0
0.694000	43.8	GND	N	9.5	12.2	56.0
1.506000	35.3	GND	N	9.6	20.7	56.0
3.718000	33.6	GND	N	9.6	22.4	56.0
4.482000	32.9	GND	N	9.6	23.1	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.430000	30.2	GND	N	9.7	17.1	47.3
0.602000	32.6	GND	N	9.6	13.4	46.0
0.702000	35.2	GND	N	9.5	10.8	46.0
1.550000	29.2	GND	N	9.6	16.8	46.0
2.566000	26.7	GND	N	9.6	19.3	46.0
3.718000	27.3	GND	N	9.6	18.7	46.0

Charging mode:Set.20  
Voltage:120V

ESH2-Z5 Scan-FCC

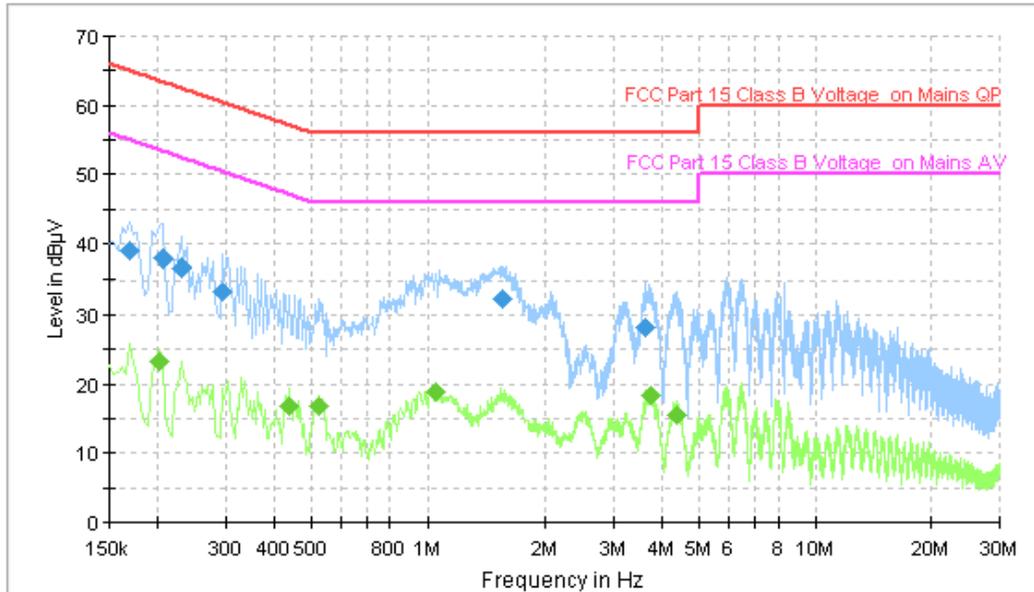


Figure A.70 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.170000	39.0	GND	N	9.6	26.0	65.0
0.206000	38.0	GND	N	9.6	25.3	63.4
0.230000	36.7	GND	N	9.6	25.8	62.4
0.294000	33.4	GND	N	9.6	27.0	60.4
1.546000	32.2	GND	N	9.6	23.8	56.0
3.610000	28.2	GND	N	9.6	27.8	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.202000	23.2	GND	N	9.6	30.3	53.5
0.438000	16.9	GND	N	9.7	30.2	47.1
0.522000	16.8	GND	N	9.7	29.2	46.0
1.054000	18.8	GND	N	9.6	27.2	46.0
3.738000	18.2	GND	N	9.6	27.8	46.0
4.402000	15.5	GND	N	9.6	30.5	46.0

Charging mode:Set.1  
Voltage:240V

ESH2-Z5 Scan-FCC

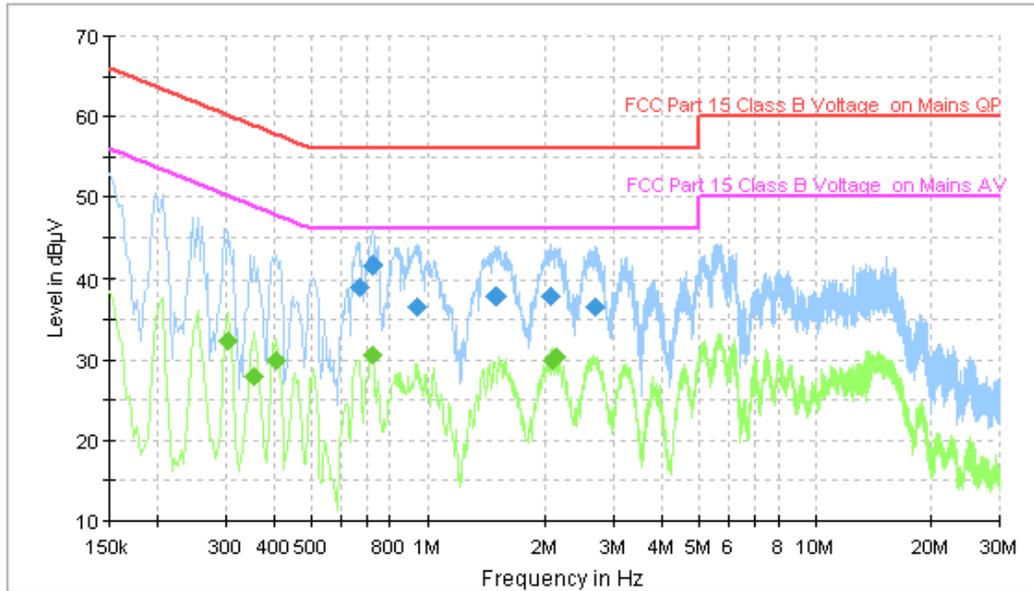


Figure A.71 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.666000	38.9	GND	N	9.5	17.1	56.0
0.718000	41.8	GND	N	9.5	14.2	56.0
0.942000	36.7	GND	N	9.6	19.4	56.0
1.494000	37.8	GND	N	9.6	18.2	56.0
2.074000	37.9	GND	N	9.6	18.1	56.0
2.702000	36.6	GND	N	9.6	19.4	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.306000	32.4	GND	N	9.6	17.7	50.1
0.354000	27.9	GND	N	9.6	21.0	48.9
0.406000	30.0	GND	N	9.7	17.7	47.7
0.718000	30.7	GND	N	9.5	15.3	46.0
2.078000	30.0	GND	N	9.6	16.0	46.0
2.122000	30.3	GND	N	9.6	15.7	46.0

Charging mode: Set.2  
Voltage: 240V

ESH2-Z5 Scan-FCC

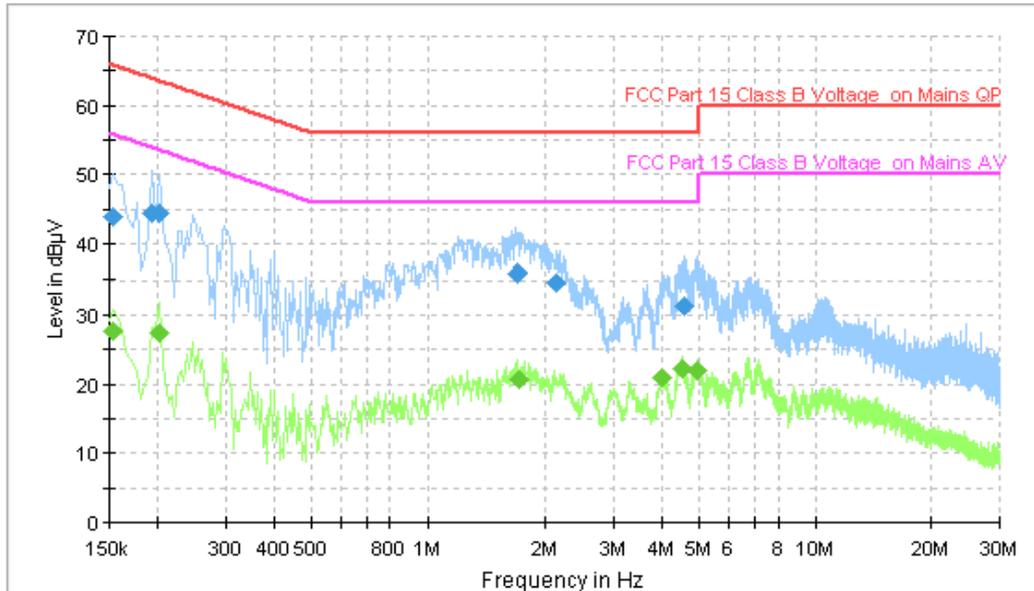


Figure A.72 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.154000	44.0	GND	N	9.6	21.8	65.8
0.194000	44.4	GND	N	9.6	19.5	63.9
0.202000	44.3	GND	N	9.6	19.2	63.5
1.698000	36.0	GND	N	9.5	20.0	56.0
2.138000	34.5	GND	N	9.6	21.5	56.0
4.582000	31.4	GND	N	9.6	24.6	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.154000	27.6	GND	N	9.6	28.2	55.8
0.202000	27.4	GND	N	9.6	26.1	53.5
1.710000	20.7	GND	N	9.6	25.3	46.0
4.022000	20.9	GND	N	9.6	25.1	46.0
4.514000	22.3	GND	N	9.6	23.7	46.0
4.966000	22.0	GND	N	9.6	24.0	46.0

Charging mode:Set.3  
Voltage:240V

ESH2-Z5 Scan-FCC

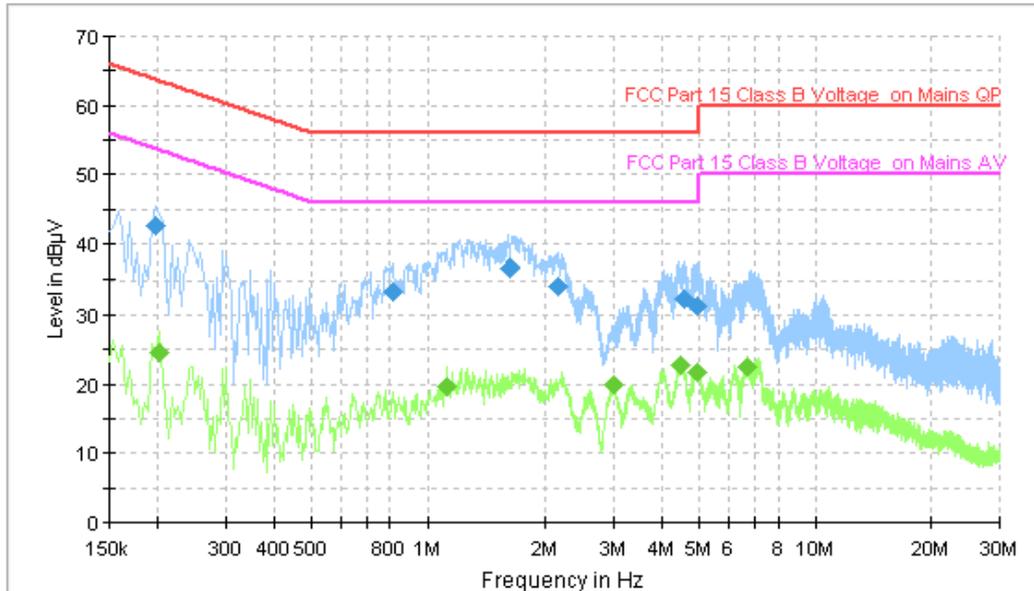


Figure A.73 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.198000	42.7	GND	N	9.6	21.0	63.7
0.814000	33.5	GND	N	9.6	22.5	56.0
1.614000	36.7	GND	N	9.6	19.3	56.0
2.150000	34.0	GND	N	9.6	22.0	56.0
4.586000	32.3	GND	N	9.6	23.7	56.0
4.926000	31.3	GND	N	9.6	24.7	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.202000	24.4	GND	N	9.6	29.1	53.5
1.122000	19.7	GND	N	9.6	26.3	46.0
3.002000	19.8	GND	N	9.6	26.2	46.0
4.498000	22.8	GND	N	9.6	23.2	46.0
4.946000	21.8	GND	N	9.6	24.2	46.0
6.642000	22.4	GND	N	9.7	27.6	50.0

Charging mode:Set.4  
Voltage:240V

ESH2-Z5 Scan-FCC

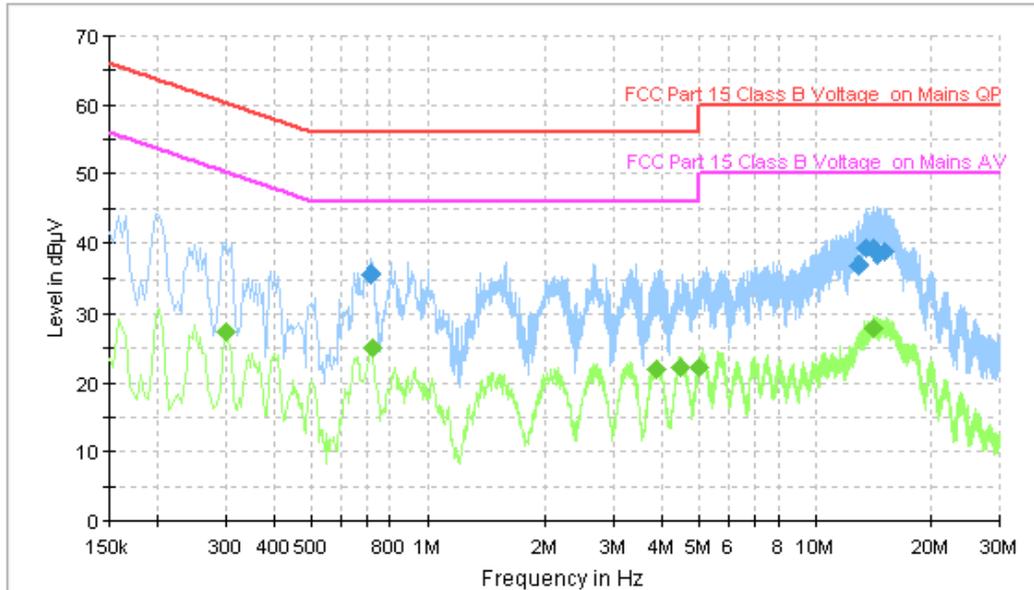


Figure A.74 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.714000	35.6	GND	N	9.5	20.4	56.0
12.942000	37.1	GND	N	9.9	23.0	60.0
13.546000	39.2	GND	N	9.9	20.8	60.0
14.158000	39.3	GND	N	9.9	20.7	60.0
14.386000	38.5	GND	N	9.9	21.5	60.0
15.038000	38.8	GND	N	9.9	21.2	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.302000	27.3	GND	N	9.6	22.9	50.2
0.718000	25.1	GND	N	9.5	20.9	46.0
3.886000	21.9	GND	N	9.6	24.1	46.0
4.494000	22.2	GND	N	9.6	23.8	46.0
4.986000	22.3	GND	N	9.6	23.7	46.0
14.218000	27.8	GND	N	9.9	22.2	50.0

Charging mode:Set.5  
Voltage:240V

ESH2-Z5 Scan-FCC

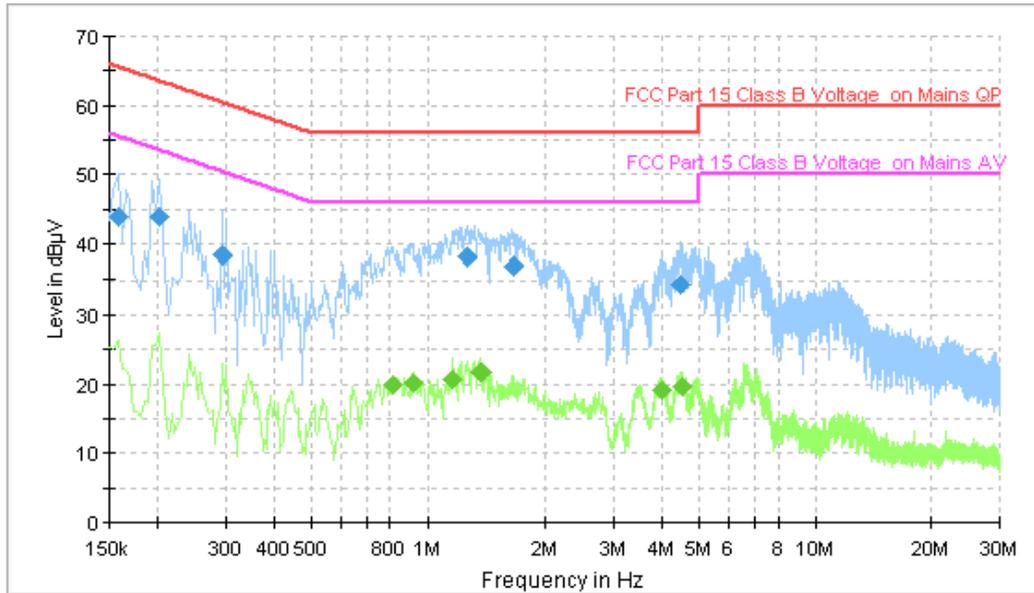


Figure A.75 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.158000	43.8	GND	N	9.6	21.8	65.6
0.202000	44.0	GND	N	9.6	19.6	63.5
0.294000	38.5	GND	N	9.6	21.9	60.4
1.270000	38.2	GND	N	9.6	17.8	56.0
1.646000	37.0	GND	N	9.5	19.0	56.0
4.494000	34.3	GND	N	9.6	21.7	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.814000	19.8	GND	N	9.6	26.2	46.0
0.918000	20.3	GND	N	9.6	25.7	46.0
1.166000	20.8	GND	N	9.5	25.2	46.0
1.366000	21.8	GND	N	9.6	24.2	46.0
3.986000	19.0	GND	N	9.6	27.0	46.0
4.502000	19.6	GND	N	9.6	26.4	46.0

Charging mode:Set.6  
Voltage:240V

ESH2-Z5 Scan-FCC

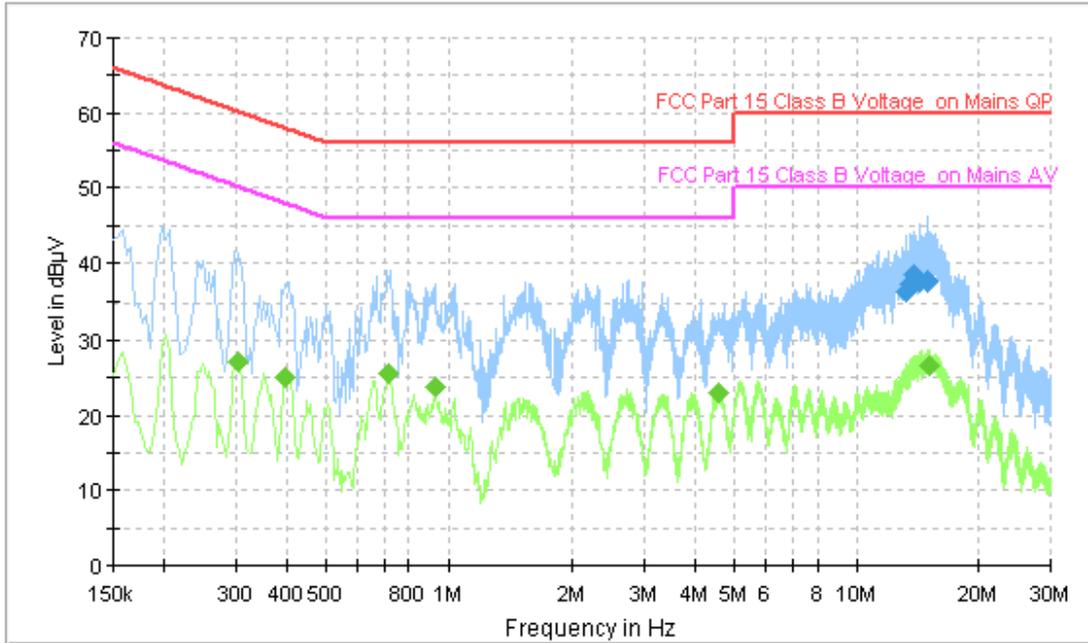


Figure A.76 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
13.254000	36.4	GND	N	9.9	23.6	60.0
13.574000	37.0	GND	N	9.9	23.0	60.0
13.598000	37.2	GND	N	9.9	22.8	60.0
13.786000	38.5	GND	N	9.9	21.5	60.0
14.334000	37.7	GND	N	9.9	22.3	60.0
14.978000	37.7	GND	N	9.9	22.3	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.306000	27.0	GND	N	9.6	23.0	50.1
0.398000	25.2	GND	N	9.6	22.7	47.9
0.710000	25.6	GND	N	9.5	20.4	46.0
0.926000	23.9	GND	N	9.6	22.1	46.0
4.594000	23.0	GND	N	9.6	23.0	46.0
15.082000	26.5	GND	N	9.9	23.5	50.0

Charging mode:Set.7  
Voltage:240V

ESH2-Z5 Scan-FCC

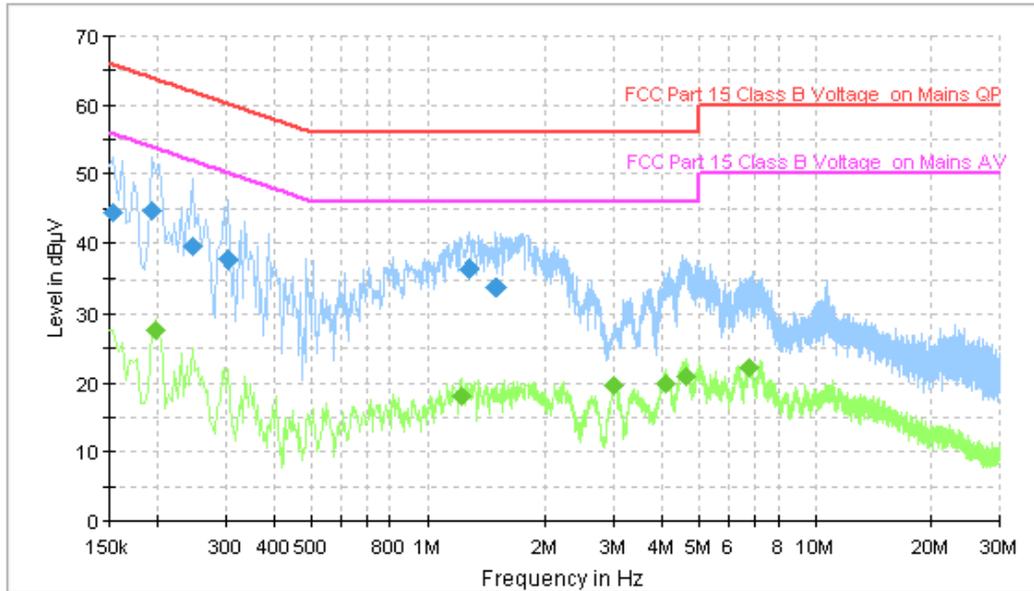


Figure A.77 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.154000	44.5	GND	N	9.6	21.3	65.8
0.194000	44.7	GND	N	9.6	19.1	63.9
0.246000	39.5	GND	N	9.6	22.4	61.9
0.306000	37.8	GND	N	9.6	22.3	60.1
1.282000	36.4	GND	N	9.6	19.6	56.0
1.490000	34.0	GND	N	9.6	22.0	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.198000	27.6	GND	N	9.6	26.1	53.7
1.230000	18.0	GND	N	9.6	28.0	46.0
3.006000	19.8	GND	N	9.6	26.2	46.0
4.094000	20.0	GND	N	9.6	26.0	46.0
4.610000	20.8	GND	N	9.6	25.2	46.0
6.758000	22.3	GND	N	9.7	27.7	50.0

Charging mode:Set.8  
Voltage:240V

ESH2-Z5 Scan-FCC

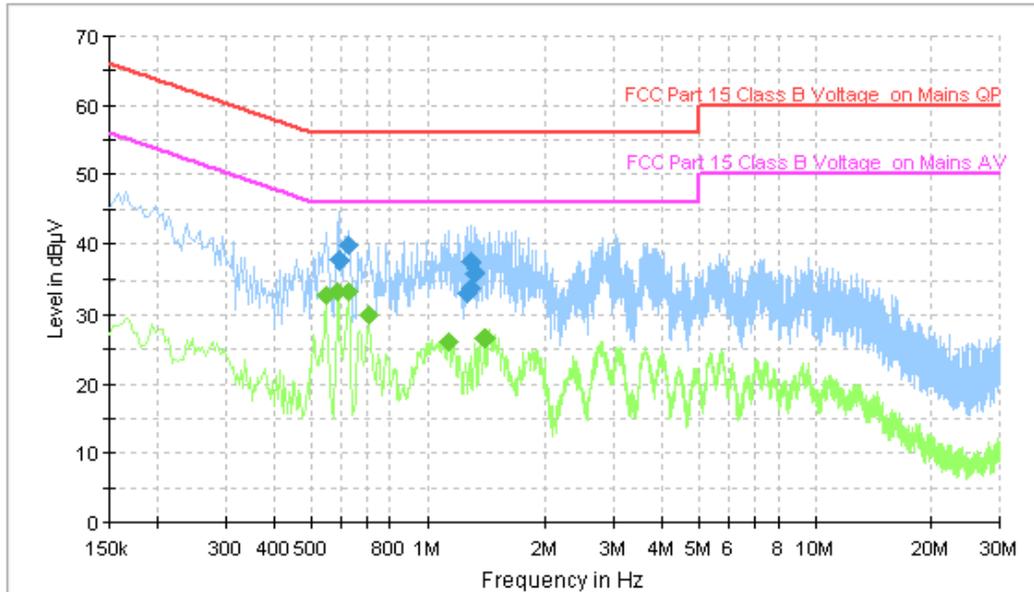


Figure A.78 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.590000	37.7	GND	N	9.6	18.3	56.0
0.626000	39.8	GND	N	9.6	16.2	56.0
1.274000	33.1	GND	N	9.6	22.9	56.0
1.290000	37.4	GND	N	9.6	18.6	56.0
1.298000	33.8	GND	N	9.6	22.2	56.0
1.330000	35.9	GND	N	9.6	20.1	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.546000	32.8	GND	N	9.7	13.2	46.0
0.586000	33.3	GND	N	9.6	12.7	46.0
0.622000	33.3	GND	N	9.6	12.7	46.0
0.702000	30.0	GND	N	9.5	16.0	46.0
1.138000	26.1	GND	N	9.6	19.9	46.0
1.402000	26.7	GND	N	9.6	19.3	46.0

Charging mode:Set.9  
Voltage:240V

ESH2-Z5 Scan-FCC

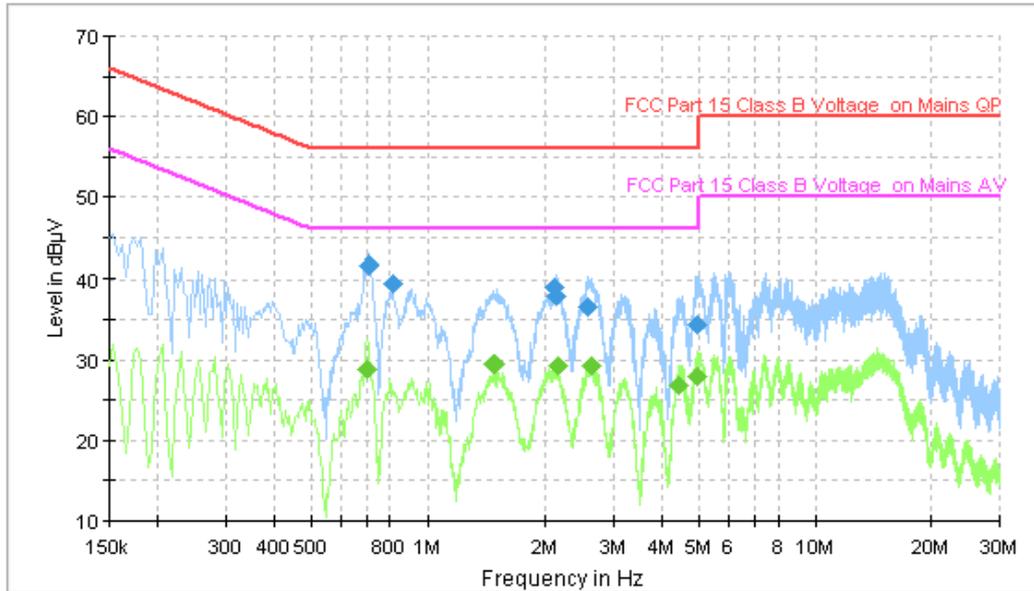


Figure A.79 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.702000	41.6	GND	N	9.5	14.4	56.0
0.814000	39.4	GND	N	9.6	16.6	56.0
2.118000	38.9	GND	N	9.6	17.1	56.0
2.134000	37.8	GND	N	9.6	18.2	56.0
2.586000	36.6	GND	N	9.6	19.4	56.0
4.934000	34.4	GND	N	9.6	21.6	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.698000	28.8	GND	N	9.5	17.2	46.0
1.486000	29.4	GND	N	9.6	16.6	46.0
2.146000	29.3	GND	N	9.6	16.7	46.0
2.646000	29.3	GND	N	9.6	16.7	46.0
4.426000	26.9	GND	N	9.6	19.1	46.0
4.934000	28.0	GND	N	9.6	18.0	46.0

Charging mode:Set.10  
Voltage:240V

ESH2-Z5 Scan-FCC

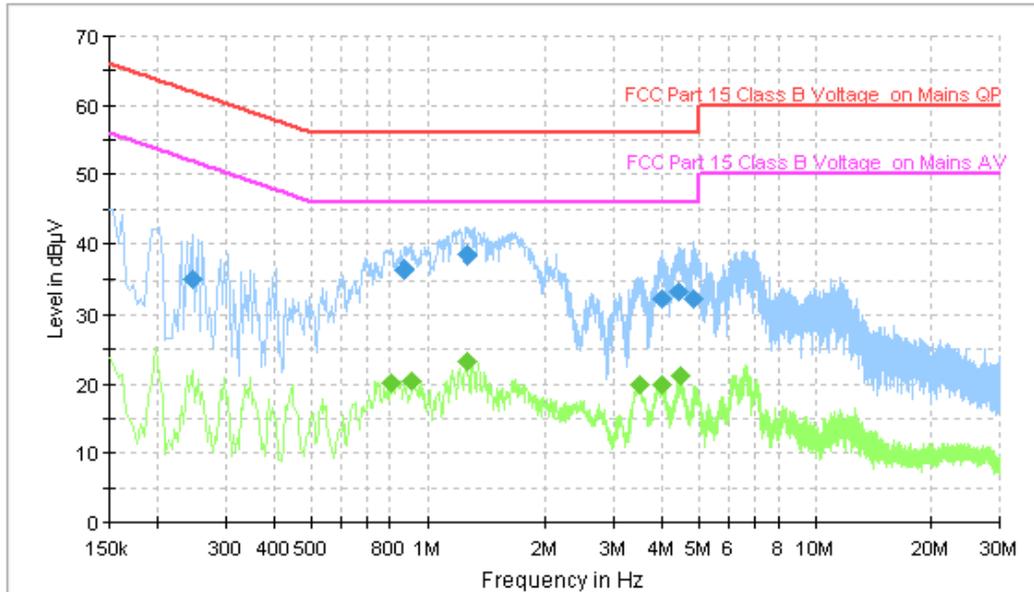


Figure A.80 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.246000	35.2	GND	N	9.6	26.7	61.9
0.870000	36.4	GND	N	9.6	19.6	56.0
1.266000	38.6	GND	N	9.6	17.4	56.0
4.018000	32.3	GND	N	9.6	23.7	56.0
4.406000	33.3	GND	N	9.6	22.7	56.0
4.834000	32.4	GND	N	9.6	23.6	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.810000	20.2	GND	N	9.6	25.8	46.0
0.914000	20.5	GND	N	9.6	25.5	46.0
1.262000	23.2	GND	N	9.6	22.8	46.0
3.506000	20.0	GND	N	9.6	26.0	46.0
4.018000	19.8	GND	N	9.6	26.2	46.0
4.482000	21.1	GND	N	9.6	24.9	46.0

Charging mode:Set.11  
Voltage:240V

ESH2-Z5 Scan-FCC

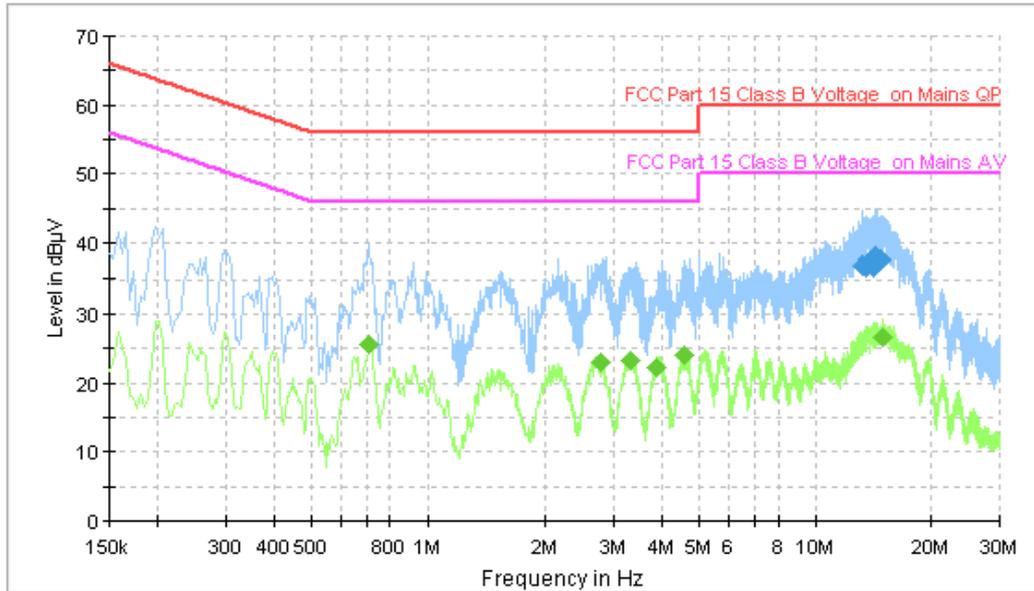


Figure A.81 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
13.294000	36.9	GND	N	9.9	23.1	60.0
13.570000	36.7	GND	N	9.9	23.3	60.0
14.074000	36.7	GND	N	9.9	23.3	60.0
14.234000	37.3	GND	N	9.9	22.7	60.0
14.358000	38.3	GND	N	9.9	21.7	60.0
14.810000	37.8	GND	N	9.9	22.2	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.706000	25.5	GND	N	9.5	20.5	46.0
2.778000	23.1	GND	N	9.6	22.9	46.0
3.306000	23.1	GND	N	9.6	22.9	46.0
3.870000	22.3	GND	N	9.6	23.7	46.0
4.570000	23.9	GND	N	9.6	22.1	46.0
14.962000	26.7	GND	N	9.9	23.3	50.0

Charging mode:Set.12  
Voltage:240V

ESH2-Z5 Scan-FCC

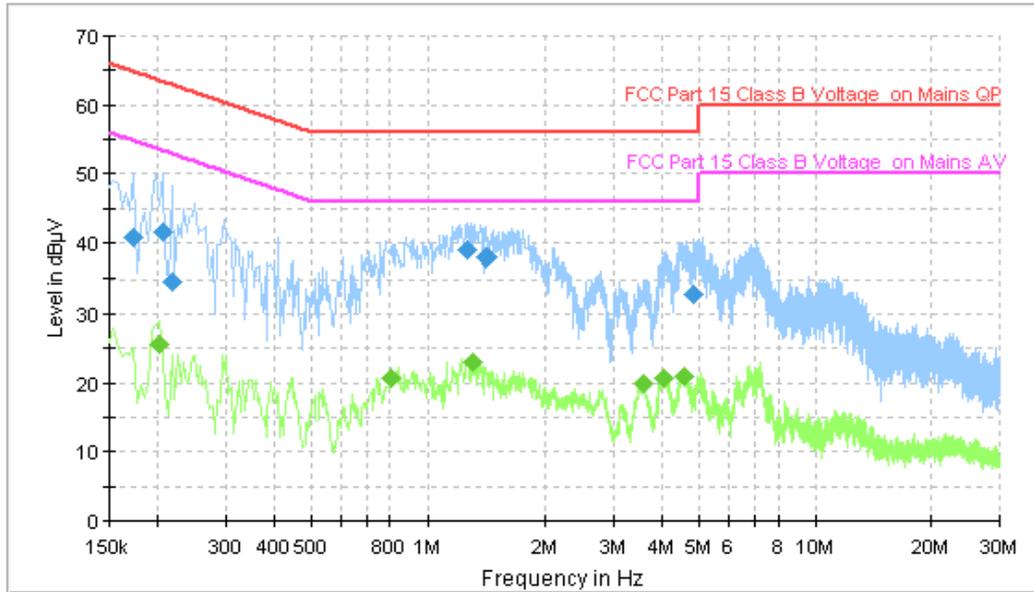


Figure A.82 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.174000	40.7	GND	N	9.6	24.1	64.8
0.206000	41.7	GND	N	9.6	21.7	63.4
0.218000	34.6	GND	N	9.6	28.3	62.9
1.270000	39.1	GND	N	9.6	16.9	56.0
1.410000	38.1	GND	N	9.5	17.9	56.0
4.854000	32.9	GND	N	9.6	23.1	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.202000	25.6	GND	N	9.6	27.9	53.5
0.810000	20.7	GND	N	9.6	25.3	46.0
1.318000	23.1	GND	N	9.6	22.9	46.0
3.574000	19.8	GND	N	9.6	26.2	46.0
4.038000	20.6	GND	N	9.6	25.4	46.0
4.582000	21.0	GND	N	9.6	25.0	46.0

Charging mode:Set.13  
Voltage:240V

ESH2-Z5 Scan-FCC

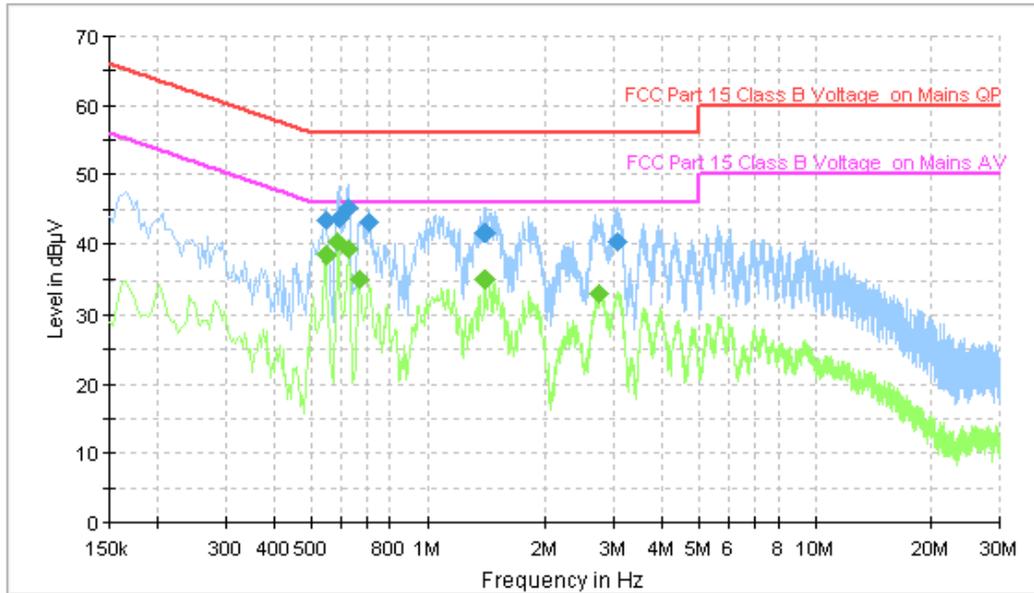


Figure A.83 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.546000	43.5	GND	N	9.7	12.5	56.0
0.590000	43.7	GND	N	9.6	12.3	56.0
0.622000	45.3	GND	N	9.6	10.7	56.0
0.702000	43.1	GND	N	9.5	12.9	56.0
1.402000	41.5	GND	N	9.6	14.5	56.0
3.086000	40.2	GND	N	9.6	15.8	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.546000	38.4	GND	N	9.7	7.6	46.0
0.586000	40.2	GND	N	9.6	5.8	46.0
0.626000	39.2	GND	N	9.6	6.8	46.0
0.666000	35.2	GND	N	9.5	10.8	46.0
1.406000	35.0	GND	N	9.5	11.0	46.0
2.742000	33.0	GND	N	9.6	13.0	46.0

Charging mode:Set.14  
Voltage:240V

ESH2-Z5 Scan-FCC

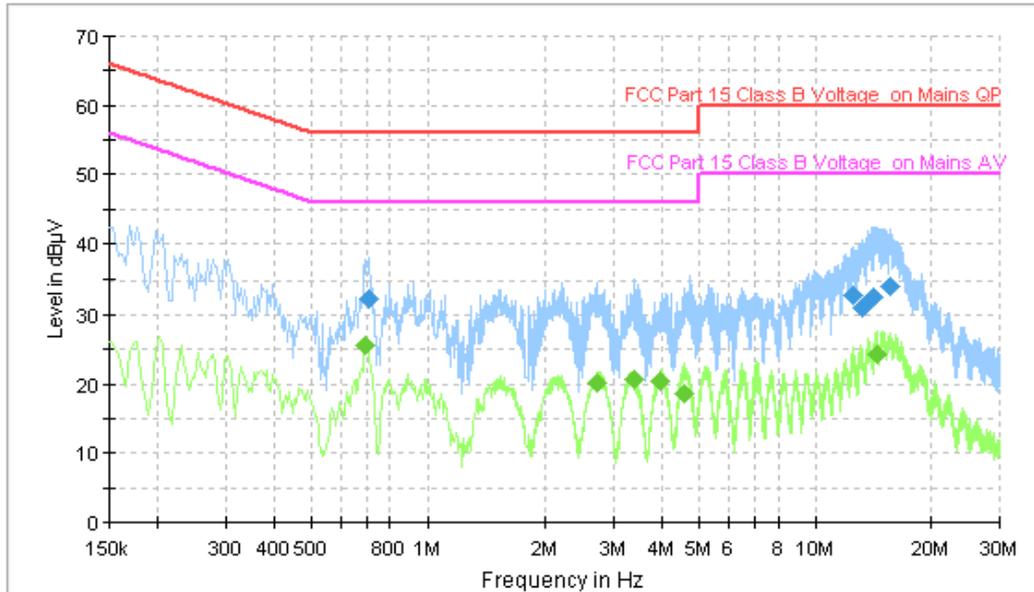


Figure A.84 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.706000	32.3	GND	N	9.5	23.7	56.0
12.530000	32.9	GND	N	9.9	27.1	60.0
13.162000	31.0	GND	N	9.9	29.0	60.0
14.038000	32.4	GND	N	9.9	27.6	60.0
14.138000	32.7	GND	N	9.9	27.3	60.0
15.550000	34.2	GND	N	9.9	25.8	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.694000	25.7	GND	N	9.5	20.3	46.0
2.734000	20.2	GND	N	9.6	25.8	46.0
3.382000	20.6	GND	N	9.6	25.4	46.0
3.946000	20.4	GND	N	9.6	25.6	46.0
4.570000	18.5	GND	N	9.6	27.5	46.0
14.394000	24.2	GND	N	9.9	25.8	50.0

Charging mode:Set.15  
Voltage:240V

ESH2-Z5 Scan-FCC

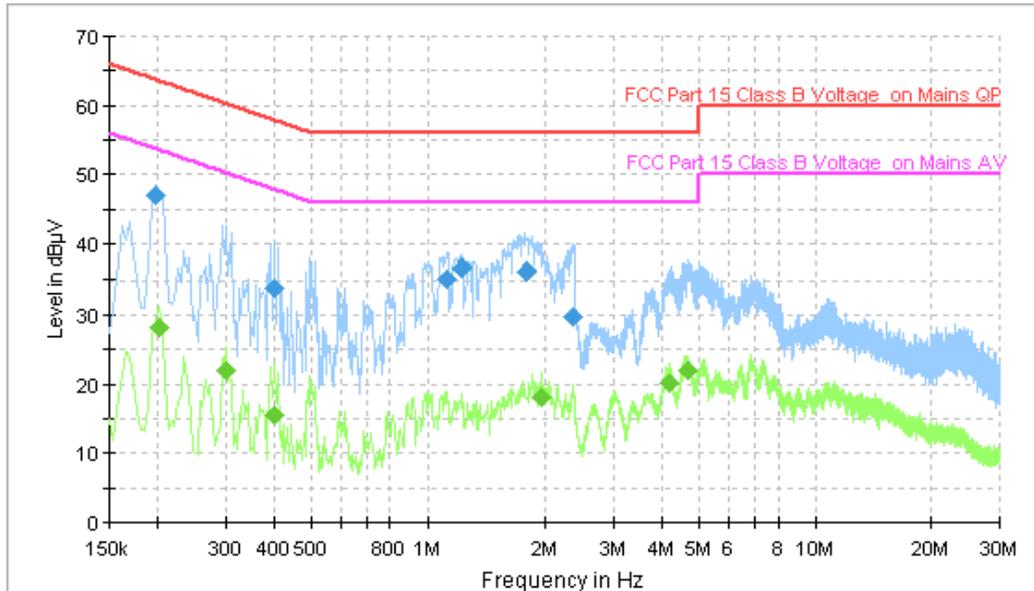


Figure A.85 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.198000	47.0	GND	N	9.6	16.7	63.7
0.402000	33.8	GND	N	9.6	24.1	57.8
1.118000	35.1	GND	N	9.6	20.9	56.0
1.226000	36.6	GND	N	9.6	19.4	56.0
1.782000	36.3	GND	N	9.6	19.7	56.0
2.358000	29.8	GND	N	9.6	26.2	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.202000	28.2	GND	N	9.6	25.3	53.5
0.302000	21.9	GND	N	9.6	28.3	50.2
0.402000	15.4	GND	N	9.6	32.4	47.8
1.950000	18.2	GND	N	9.6	27.8	46.0
4.194000	20.2	GND	N	9.6	25.8	46.0
4.666000	21.9	GND	N	9.6	24.1	46.0

Charging mode:Set.16  
Voltage:240V

ESH2-Z5 Scan-FCC

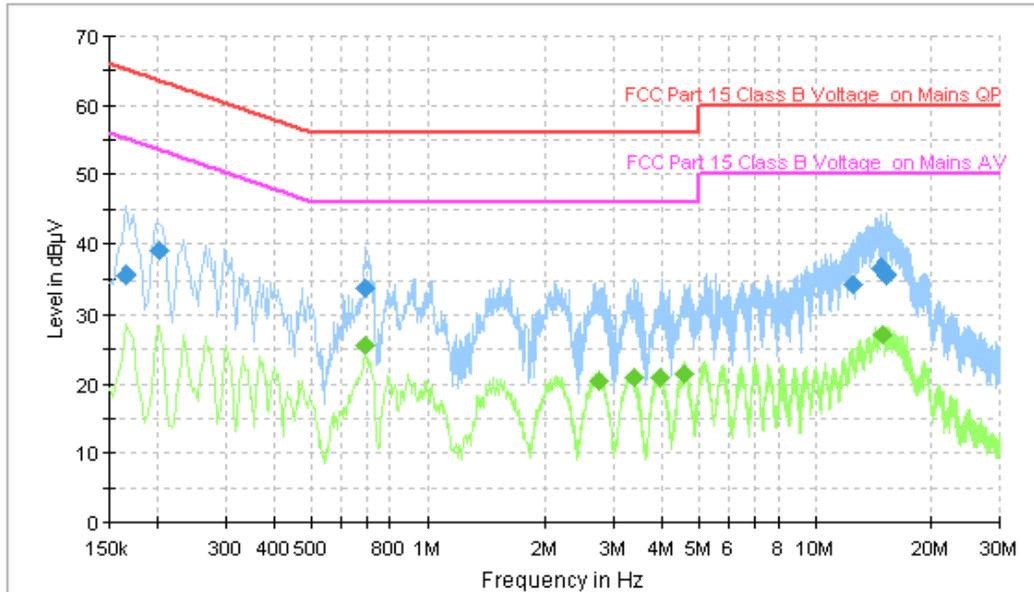


Figure A.86 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.166000	35.6	GND	N	9.6	29.5	65.2
0.202000	39.0	GND	N	9.6	24.6	63.5
0.690000	33.9	GND	N	9.5	22.1	56.0
12.538000	34.3	GND	N	9.9	25.7	60.0
14.714000	36.6	GND	N	9.9	23.4	60.0
15.330000	35.6	GND	N	9.9	24.4	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.690000	25.6	GND	N	9.5	20.4	46.0
2.754000	20.5	GND	N	9.6	25.5	46.0
3.402000	20.9	GND	N	9.6	25.1	46.0
3.942000	20.8	GND	N	9.6	25.2	46.0
4.570000	21.4	GND	N	9.6	24.6	46.0
14.878000	27.2	GND	N	9.9	22.8	50.0

Charging mode:Set.17  
Voltage:240V

ESH2-Z5 Scan-FCC

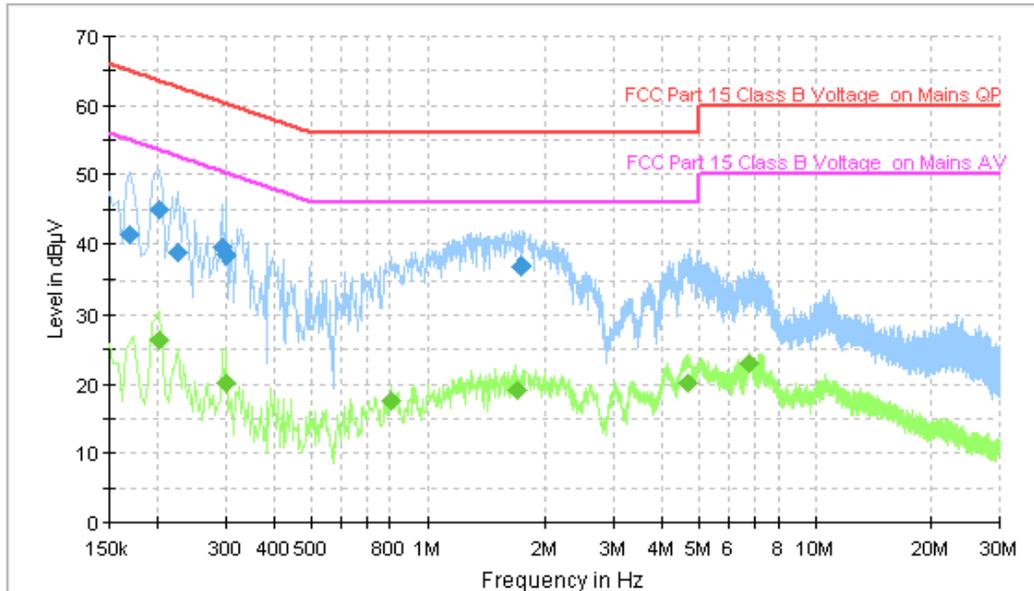


Figure A.87 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.170000	41.4	GND	N	9.6	23.6	65.0
0.202000	45.0	GND	N	9.6	18.6	63.5
0.226000	38.9	GND	N	9.6	23.7	62.6
0.294000	39.5	GND	N	9.6	20.9	60.4
0.302000	38.5	GND	N	9.6	21.7	60.2
1.722000	36.8	GND	N	9.6	19.2	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.202000	26.3	GND	N	9.6	27.3	53.5
0.302000	20.2	GND	N	9.6	29.9	50.2
0.810000	17.7	GND	N	9.6	28.3	46.0
1.682000	19.2	GND	N	9.5	26.8	46.0
4.698000	20.2	GND	N	9.6	25.8	46.0
6.766000	22.9	GND	N	9.7	27.1	50.0

Charging mode:Set.18  
Voltage:240V

ESH2-Z5 Scan-FCC

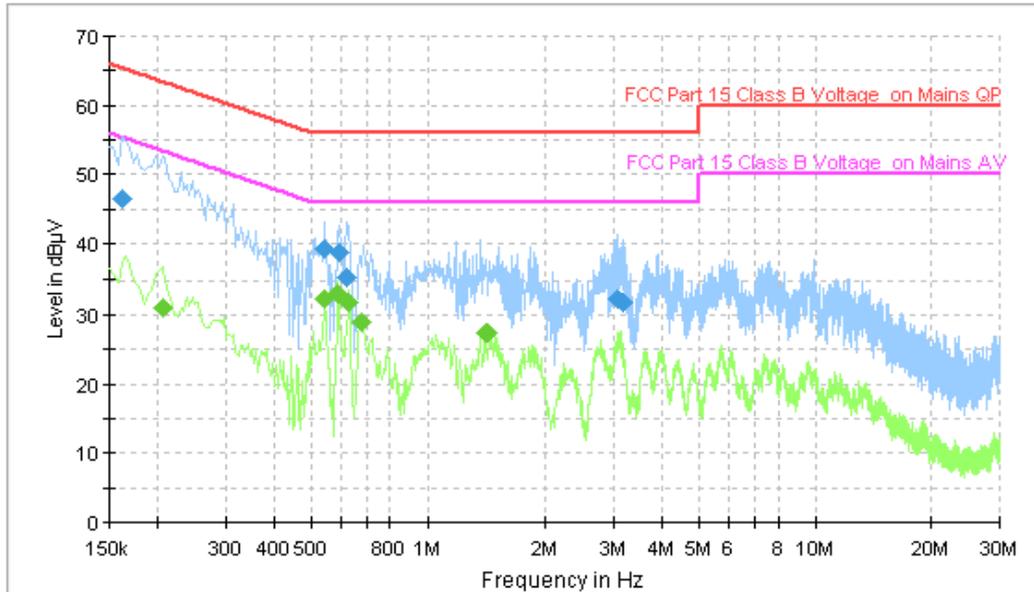


Figure A.88 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.162000	46.5	GND	N	9.6	18.8	65.4
0.542000	39.2	GND	N	9.7	16.8	56.0
0.590000	38.9	GND	N	9.6	17.1	56.0
0.618000	35.3	GND	N	9.6	20.7	56.0
3.078000	32.2	GND	N	9.6	23.8	56.0
3.190000	31.9	GND	N	9.6	24.1	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.206000	30.9	GND	N	9.6	22.4	53.4
0.542000	32.3	GND	N	9.7	13.7	46.0
0.586000	33.1	GND	N	9.6	12.9	46.0
0.626000	31.7	GND	N	9.6	14.3	46.0
0.674000	29.0	GND	N	9.5	17.0	46.0
1.410000	27.5	GND	N	9.5	18.5	46.0

Charging mode: Set.19  
Voltage: 240V

ESH2-Z5 Scan-FCC

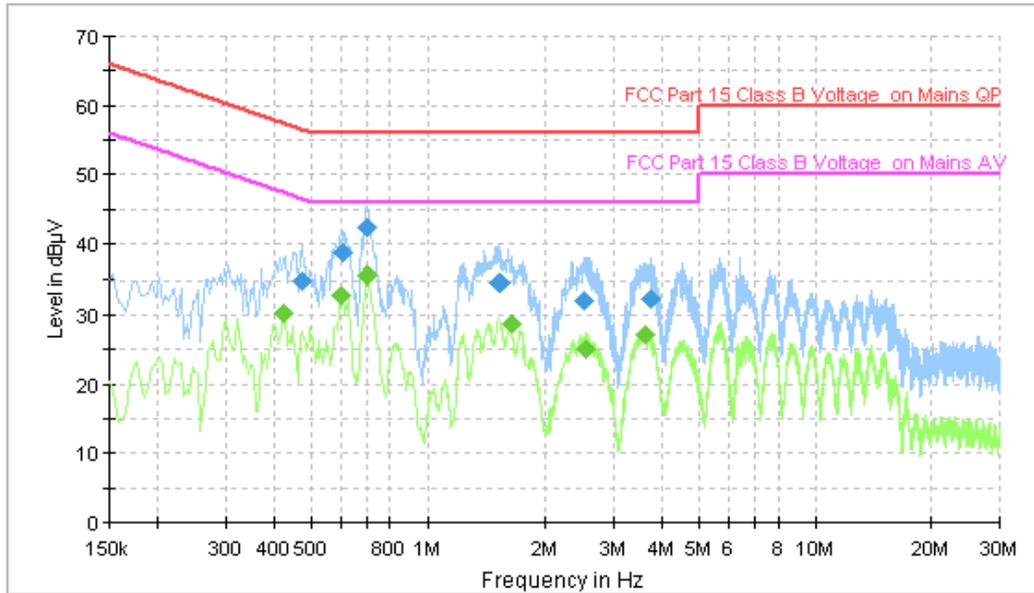


Figure A.89 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.474000	34.9	GND	N	9.7	21.6	56.4
0.606000	38.6	GND	N	9.6	17.4	56.0
0.698000	42.3	GND	N	9.5	13.7	56.0
1.530000	34.6	GND	N	9.6	21.4	56.0
2.526000	32.0	GND	N	9.6	24.0	56.0
3.742000	32.4	GND	N	9.6	23.6	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.422000	30.2	GND	N	9.7	17.2	47.4
0.598000	32.8	GND	N	9.6	13.2	46.0
0.698000	35.6	GND	N	9.5	10.4	46.0
1.630000	28.8	GND	N	9.6	17.2	46.0
2.534000	25.1	GND	N	9.6	20.9	46.0
3.642000	27.0	GND	N	9.6	19.0	46.0

Charging mode:Set.20  
Voltage:240V

ESH2-Z5 Scan-FCC

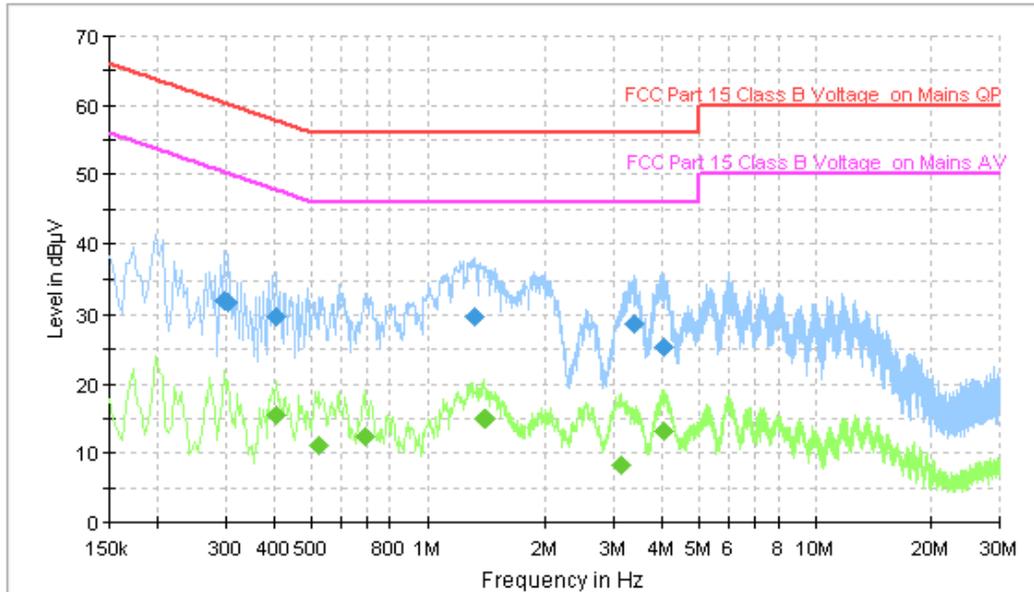


Figure A.90 Conducted Emission

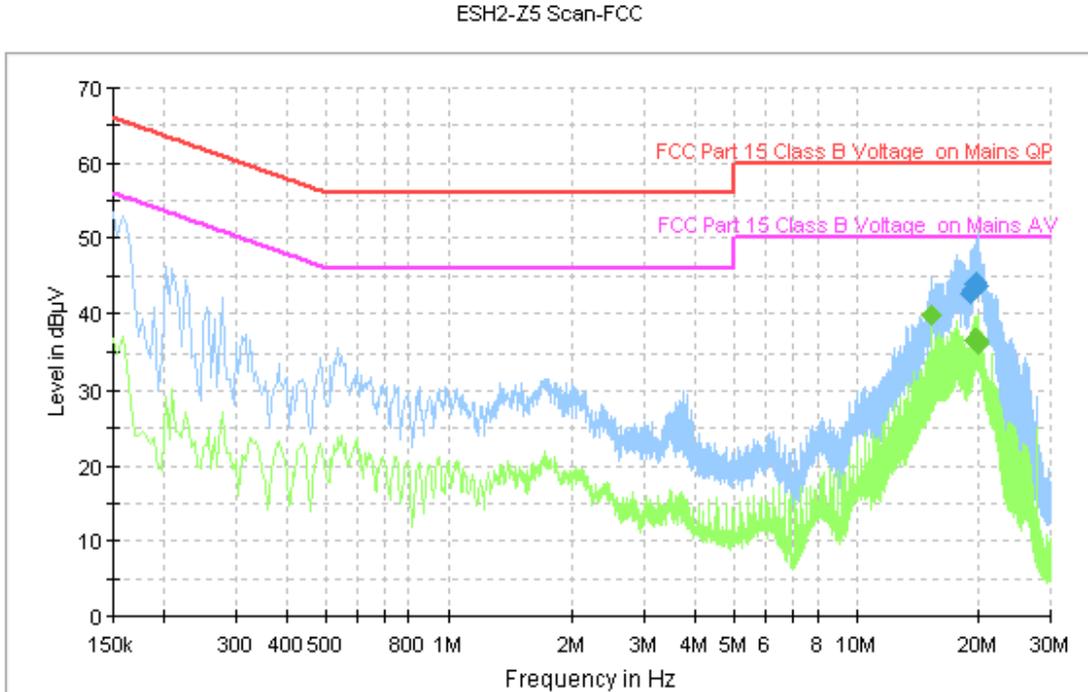
**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.298000	32.0	GND	N	9.6	28.3	60.3
0.306000	31.7	GND	N	9.6	28.3	60.1
0.406000	29.6	GND	N	9.7	28.1	57.7
1.322000	29.6	GND	N	9.6	26.4	56.0
3.402000	28.7	GND	N	9.6	27.3	56.0
4.034000	25.3	GND	N	9.6	30.7	56.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.406000	15.4	GND	N	9.7	32.3	47.7
0.522000	11.2	GND	N	9.7	34.8	46.0
0.690000	12.5	GND	N	9.5	33.5	46.0
1.394000	14.9	GND	N	9.6	31.1	46.0
3.150000	8.2	GND	N	9.6	37.8	46.0
4.034000	13.1	GND	N	9.6	32.9	46.0

USB mode:Set.21  
Voltage:120V



**Figure A.91 Conducted Emission**

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
19.110000	42.5	GND	N	10.0	17.5	60.0
19.330000	43.2	GND	N	10.0	16.8	60.0
19.438000	43.8	GND	N	10.0	16.2	60.0
19.486000	43.8	GND	N	10.0	16.2	60.0
19.782000	44.1	GND	N	10.0	15.9	60.0
19.918000	43.7	GND	N	10.0	16.3	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
15.358000	39.7	GND	N	9.9	10.3	50.0
19.454000	36.6	GND	N	10.0	13.4	50.0
19.630000	36.4	GND	N	10.0	13.6	50.0
19.798000	36.6	GND	N	10.0	13.4	50.0
19.890000	36.3	GND	N	10.0	13.7	50.0
19.914000	36.3	GND	N	10.0	13.7	50.0

USB mode:Set.22

Voltage:120V

ESH2-Z5 Scan-FCC

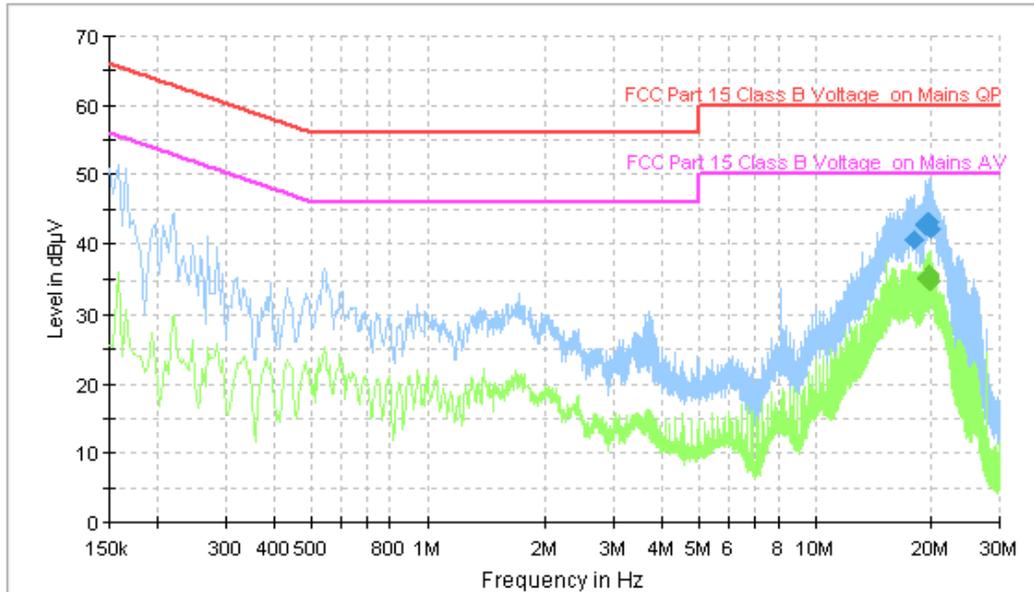


Figure A.92 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
18.126000	40.5	GND	N	9.9	19.5	60.0
19.190000	42.6	GND	N	10.0	17.4	60.0
19.374000	43.0	GND	N	10.0	17.0	60.0
19.462000	43.1	GND	N	10.0	16.9	60.0
19.602000	43.1	GND	N	10.0	16.9	60.0
19.938000	42.0	GND	N	10.0	18.0	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
19.510000	35.2	GND	N	10.0	14.8	50.0
19.526000	35.4	GND	N	10.0	14.6	50.0
19.602000	35.3	GND	N	10.0	14.7	50.0
19.678000	35.7	GND	N	10.0	14.3	50.0
19.786000	34.9	GND	N	10.0	15.1	50.0
19.870000	34.9	GND	N	10.0	15.1	50.0

USB mode:Set.23  
Voltage:120V

ESH2-Z5 Scan-FCC

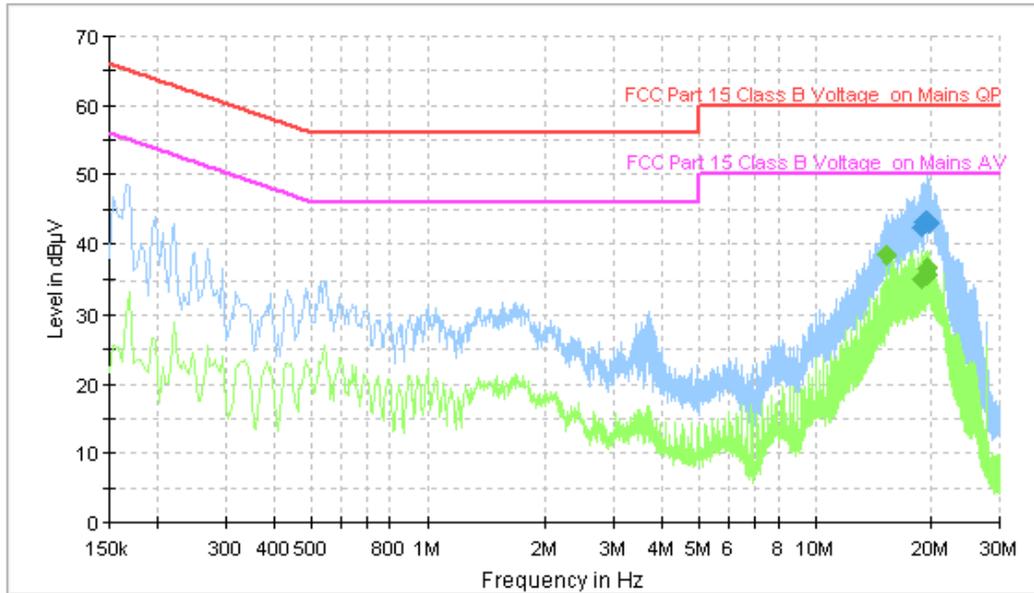


Figure A.93 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
18.938000	42.3	GND	N	10.0	17.7	60.0
19.098000	43.1	GND	N	10.0	16.9	60.0
19.182000	43.5	GND	N	10.0	16.5	60.0
19.594000	43.3	GND	N	10.0	16.7	60.0
19.738000	42.8	GND	N	10.0	17.2	60.0
19.794000	43.1	GND	N	10.0	16.9	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
15.362000	38.5	GND	N	9.9	11.5	50.0
18.922000	35.2	GND	N	10.0	14.8	50.0
19.358000	35.6	GND	N	10.0	14.4	50.0
19.366000	35.6	GND	N	10.0	14.4	50.0
19.450000	36.7	GND	N	10.0	13.3	50.0
19.534000	35.6	GND	N	10.0	14.4	50.0

USB mode:Set.24  
Voltage:120V

ESH2-Z5 Scan-FCC

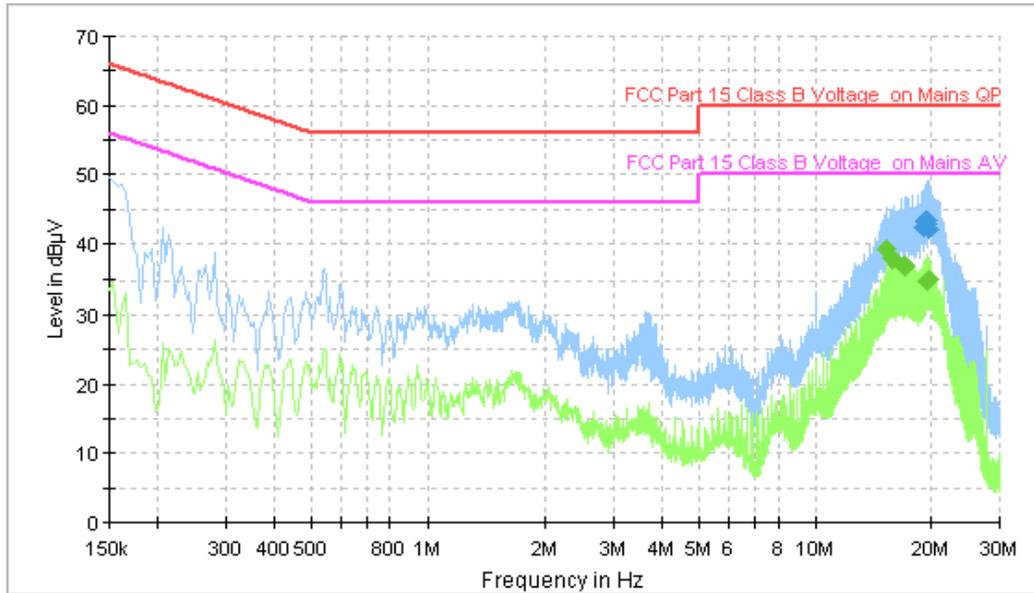


Figure A.94 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
19.134000	42.3	GND	N	10.0	17.7	60.0
19.186000	43.1	GND	N	10.0	16.9	60.0
19.378000	43.3	GND	N	10.0	16.7	60.0
19.438000	43.0	GND	N	10.0	17.0	60.0
19.546000	43.3	GND	N	10.0	16.7	60.0
19.738000	42.2	GND	N	10.0	17.8	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
15.362000	39.3	GND	N	9.9	10.7	50.0
15.774000	37.9	GND	N	9.9	12.1	50.0
17.062000	36.9	GND	N	9.9	13.1	50.0
19.426000	35.0	GND	N	10.0	15.0	50.0
19.510000	34.9	GND	N	10.0	15.1	50.0
19.794000	35.1	GND	N	10.0	14.9	50.0

USB mode:Set.25  
Voltage:120V

ESH2-Z5 Scan-FCC

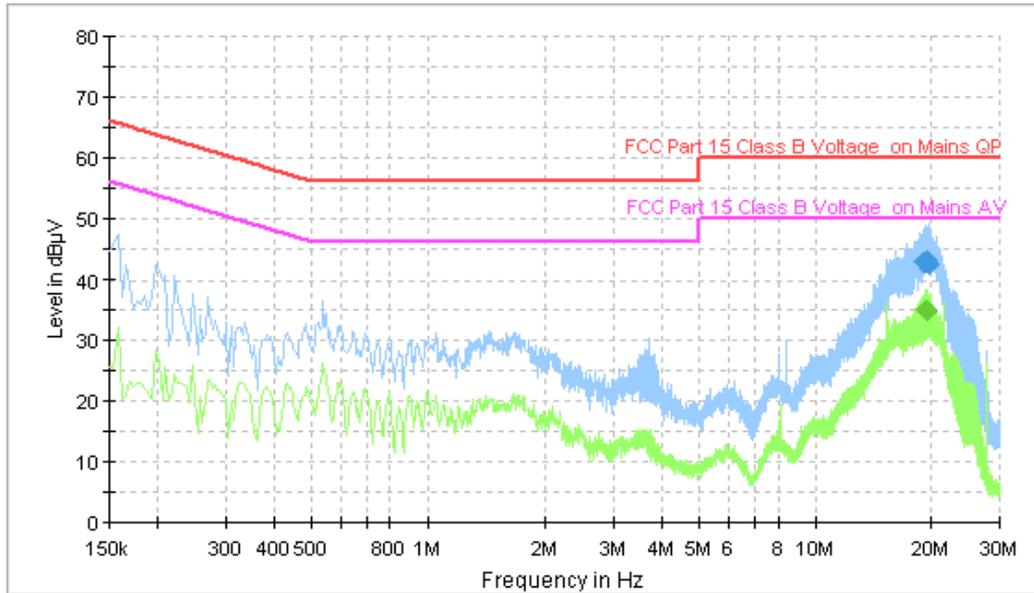


Figure A.95 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
19.010000	42.8	GND	N	10.0	17.2	60.0
19.034000	42.9	GND	N	10.0	17.1	60.0
19.310000	42.8	GND	N	10.0	17.2	60.0
19.386000	43.0	GND	N	10.0	17.0	60.0
19.506000	42.9	GND	N	10.0	17.1	60.0
19.638000	42.6	GND	N	10.0	17.4	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
19.202000	35.2	GND	N	10.0	14.8	50.0
19.286000	35.0	GND	N	10.0	15.0	50.0
19.378000	35.0	GND	N	10.0	15.0	50.0
19.402000	35.0	GND	N	10.0	15.0	50.0
19.462000	34.9	GND	N	10.0	15.1	50.0
19.562000	34.7	GND	N	10.0	15.3	50.0

USB mode:Set.21  
Voltage:240V

ESH2-Z5 Scan-FCC

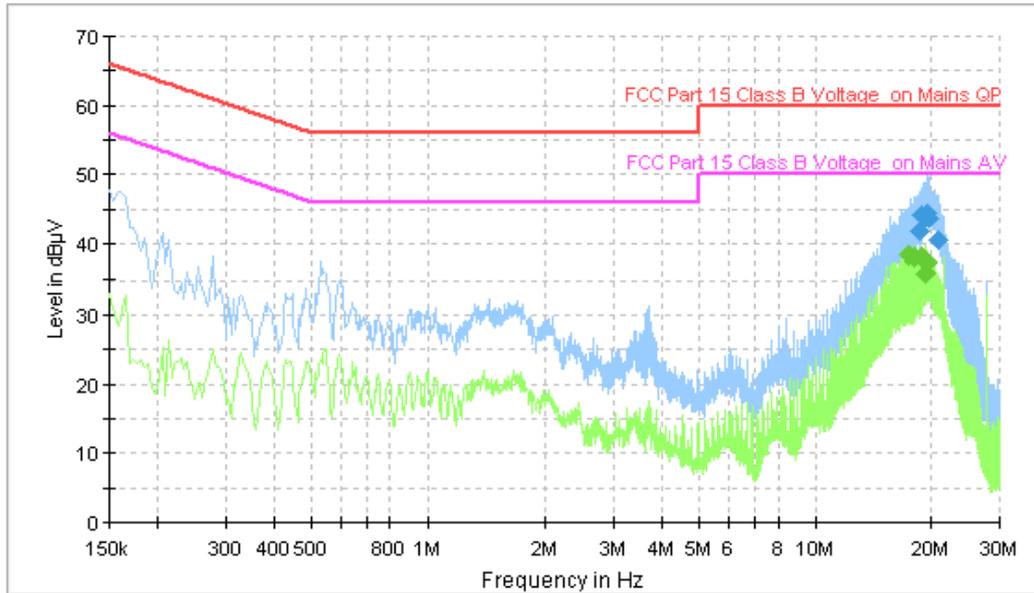


Figure A.96 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
18.610000	41.8	GND	N	9.9	18.2	60.0
18.846000	44.2	GND	N	10.0	15.8	60.0
19.290000	43.7	GND	N	10.0	16.3	60.0
19.414000	44.5	GND	N	10.0	15.5	60.0
19.682000	43.7	GND	N	10.0	16.3	60.0
20.730000	40.6	GND	N	10.0	19.4	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
17.442000	38.4	GND	N	9.9	11.6	50.0
18.126000	38.1	GND	N	9.9	11.9	50.0
18.846000	38.3	GND	N	10.0	11.7	50.0
19.282000	35.8	GND	N	10.0	14.2	50.0
19.298000	37.7	GND	N	10.0	12.3	50.0
19.414000	37.5	GND	N	10.0	12.5	50.0

USB mode:Set.22

Voltage:240V

ESH2-Z5 Scan-FCC

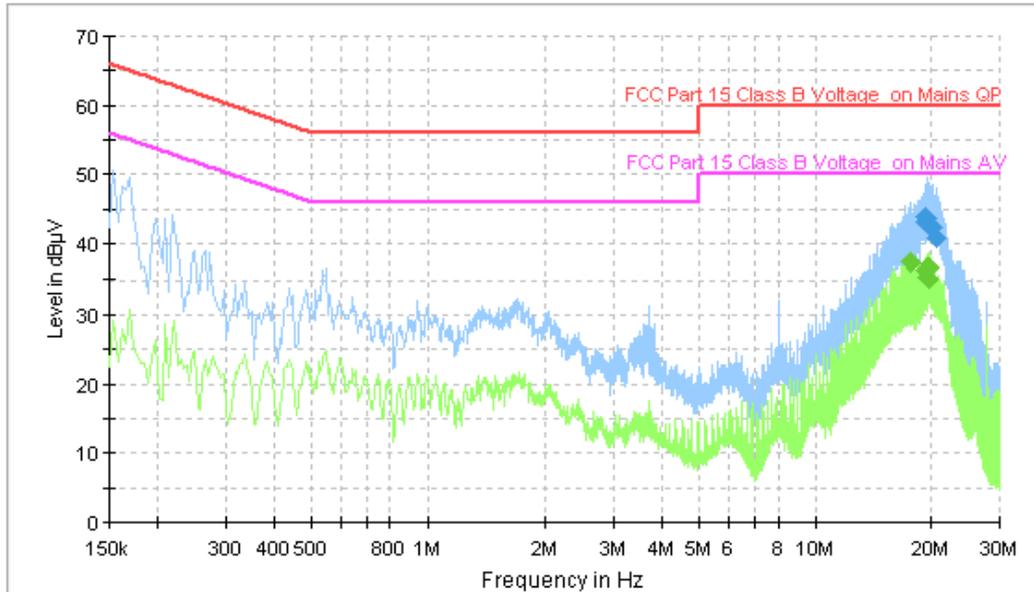


Figure A.97 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
19.222000	43.2	GND	N	10.0	16.8	60.0
19.338000	44.0	GND	N	10.0	16.0	60.0
19.526000	43.6	GND	N	10.0	16.4	60.0
19.806000	42.7	GND	N	10.0	17.3	60.0
20.134000	42.5	GND	N	10.0	17.5	60.0
20.490000	40.8	GND	N	10.0	19.2	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
17.670000	37.5	GND	N	9.9	12.5	50.0
19.222000	36.4	GND	N	10.0	13.6	50.0
19.414000	36.7	GND	N	10.0	13.3	50.0
19.514000	35.4	GND	N	10.0	14.6	50.0
19.682000	36.6	GND	N	10.0	13.4	50.0
19.766000	35.2	GND	N	10.0	14.8	50.0

USB mode:Set.23  
Voltage:240V

ESH2-Z5 Scan-FCC

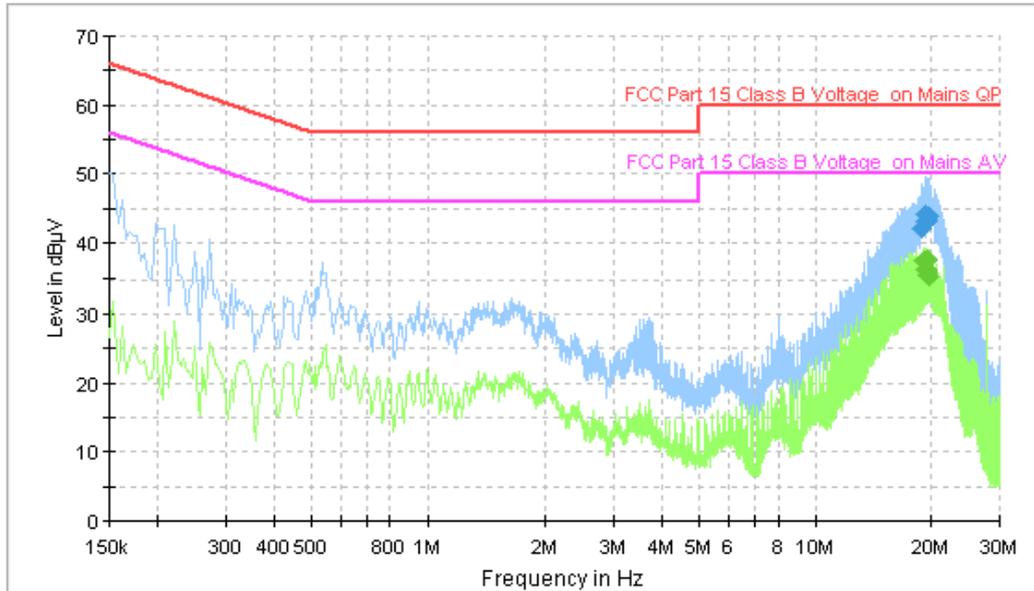


Figure A.98 Conducted Emission

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
18.938000	42.0	GND	N	10.0	18.0	60.0
19.186000	44.2	GND	N	10.0	15.8	60.0
19.310000	43.2	GND	N	10.0	16.8	60.0
19.490000	43.5	GND	N	10.0	16.5	60.0
19.510000	43.3	GND	N	10.0	16.7	60.0
19.654000	43.9	GND	N	10.0	16.1	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
19.074000	37.5	GND	N	10.0	12.5	50.0
19.334000	36.4	GND	N	10.0	13.6	50.0
19.418000	36.3	GND	N	10.0	13.7	50.0
19.450000	37.6	GND	N	10.0	12.4	50.0
19.510000	35.6	GND	N	10.0	14.4	50.0
19.610000	35.4	GND	N	10.0	14.6	50.0

USB mode:Set.24  
Voltage:240V

ESH2-Z5 Scan-FCC

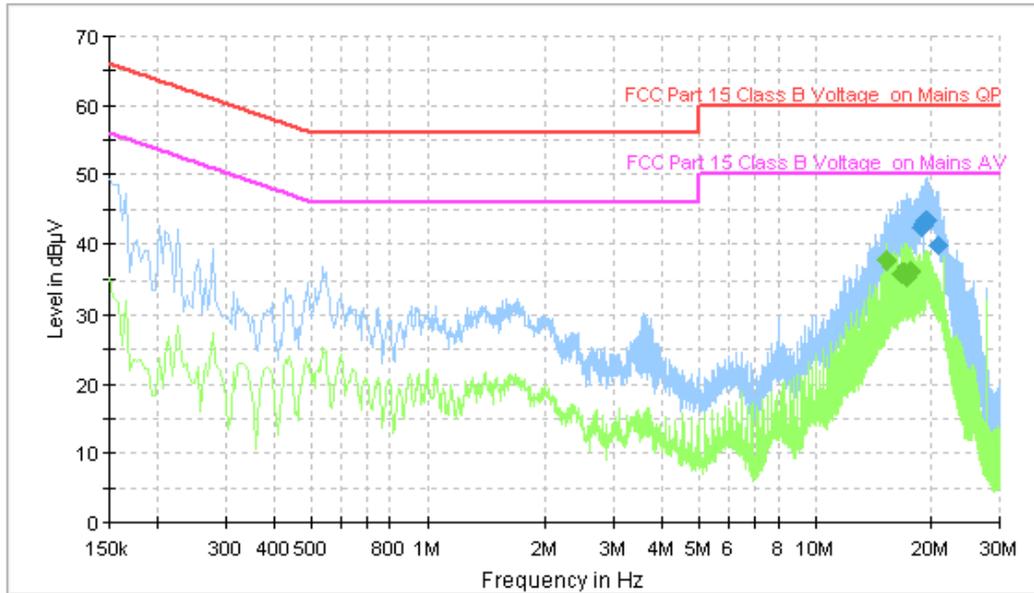


Figure A.99 Conducted Emission

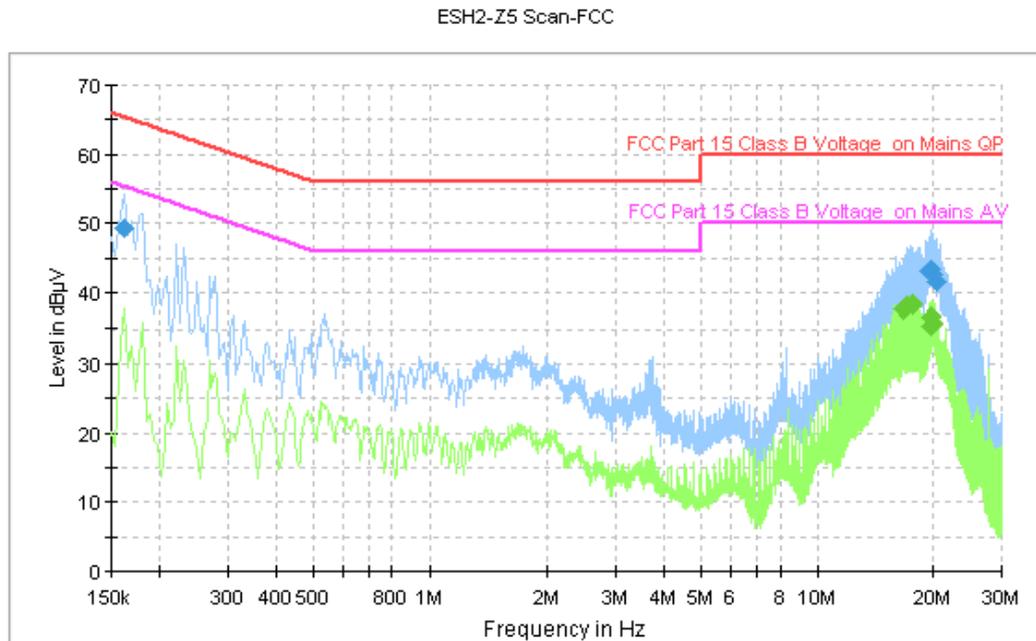
Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
18.882000	42.4	GND	N	10.0	17.6	60.0
18.978000	42.7	GND	N	10.0	17.3	60.0
19.042000	42.8	GND	N	10.0	17.2	60.0
19.218000	43.4	GND	N	10.0	16.6	60.0
19.394000	43.5	GND	N	10.0	16.5	60.0
20.838000	39.7	GND	N	10.0	20.3	60.0

Final Measurement Detector 2

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
15.358000	37.7	GND	N	9.9	12.3	50.0
16.610000	35.8	GND	N	9.9	14.2	50.0
16.834000	35.8	GND	N	9.9	14.2	50.0
17.062000	35.9	GND	N	9.9	14.1	50.0
17.214000	35.4	GND	N	9.9	14.6	50.0
17.670000	36.3	GND	N	9.9	13.8	50.0

USB mode:Set.25  
Voltage:240V



**Figure A.100 Conducted Emission**

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
0.162000	49.3	GND	N	9.6	16.0	65.4
19.414000	43.1	GND	N	10.0	16.9	60.0
19.682000	43.4	GND	N	10.0	16.6	60.0
19.774000	42.9	GND	N	10.0	17.1	60.0
20.010000	42.7	GND	N	10.0	17.3	60.0
20.358000	41.5	GND	N	10.0	18.5	60.0

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB µV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB µV)
16.610000	37.8	GND	N	9.9	12.2	50.0
17.062000	38.1	GND	N	9.9	11.9	50.0
17.670000	38.6	GND	N	9.9	11.4	50.0
19.606000	35.4	GND	N	10.0	14.6	50.0
19.682000	36.6	GND	N	10.0	13.4	50.0
19.866000	35.6	GND	N	10.0	14.4	50.0

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