

# FCC TEST REPORT

Product Name: Mobile Phone  
Trade Mark: BLU  
Model No.: C5 PLUS  
Add. Model No.: J4  
Report Number: 190806001EMC-1  
Test Standards: FCC 47 CFR Part 15 Subpart B  
FCC ID: YHLBLUC5PLUS  
Test Result: PASS  
Date of Issue: August 28, 2019

Prepared for:

**BLU Products, Inc.**  
**10814 NW 33rd St # 100 Doral, FL 33172, USA**

Prepared by:

**Shenzhen UnionTrust Quality and Technology Co., Ltd.**  
**16/F, Block A, Building 6, Baoneng Science and Technology Park,**  
**Qingxiang Road No.1, Longhua New District, Shenzhen, China**  
**TEL: +86-755-2823 0888**  
**FAX: +86-755-2823 0886**

Prepared by:



Tony Kang  
Project Engineer

Reviewed by:



Kevin Liang  
Assistant Manager

Approved by:



Billy Li  
Technical Director

Date:

August 28, 2019

**Shenzhen UnionTrust Quality and Technology Co., Ltd.**

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China  
Tel: +86-755-28230888 Fax: +86-755-28230886 E-mail: info@uttlab.com

[Http://www.uttlab.com](http://www.uttlab.com)

**Version**

Version No.	Date	Description
V1.0	August 28, 2019	Original

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## 1. GENERAL INFORMATION

### 1.1 CLIENT INFORMATION

<b>Applicant:</b>	BLU Products, Inc.
<b>Address of Applicant:</b>	10814 NW 33rd St # 100 Doral, FL 33172, USA
<b>Manufacturer:</b>	BLU Products, Inc.
<b>Address of Manufacturer:</b>	10814 NW 33rd St # 100 Doral, FL 33172, USA

### 1.2 EUT INFORMATION

#### 1.2.1 General Description of EUT

<b>Product Name:</b>	Mobile Phone
<b>Model No.:</b>	C5 PLUS
<b>Add. Model No.:</b>	J4
<b>Trade Mark:</b>	BLU
<b>DUT Stage:</b>	Identical Prototype
<b>Rated Voltage:</b>	110-240V~50/60Hz and/or 3.7Vdc (1x3.7V Li-ion Rechargeablebattery)
<b>Classification of digital devices:</b>	Class B
<b>Highest Internal Frequency:</b>	2.48 GHz
<b>Hardware Version:</b>	FS275-MB-V0.2A
<b>Software Version:</b>	7731E_FS275_0000477_128x8_V1_128X8_GPS_PLS_2SIM_20190808_1944_CAM
<b>Sample Received Date:</b>	August 7, 2019
<b>Sample Tested Date:</b>	August 7, 2019 to August 23, 2019
<b>Note:</b> The additional model J4 is identical with the test model C5 PLUS except the model number and ROM Capability.	

#### 1.2.2 Description of Accessories

Adapter	
<b>Model No.:</b>	US-WW-1003
<b>Input:</b>	100-240 V~50/60 Hz 0.2 A
<b>Output:</b>	5.0 V $\overline{\text{---}}$ 1A

Battery	
<b>Model No.:</b>	C835842220L
<b>Battery Type:</b>	Lithium-ion Rechargeable Battery
<b>Rated Voltage:</b>	3.7 Vdc
<b>Rated Capacity:</b>	2200 mAh

Cable	
<b>Description:</b>	USB Micro-B Plug Cable
<b>Cable Type:</b>	Unshielded without ferrite
<b>Length:</b>	1.00 Meter

### 1.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

#### 1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
Notebook	Lenovo	E450	SL10G10780	UnionTrust
Earphone	--	--	--	UnionTrust
Mouse	DELL	MS111	CN-011D3V-738	UnionTrust

#### 2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
--	--	--	--	--

### 1.4 TEST LOCATION

#### **Shenzhen UnionTrust Quality and Technology Co., Ltd.**

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China 518109  
Telephone: +86 (0) 755 2823 0888  
Fax: +86 (0) 755 2823 0886

### 1.5 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

#### **CNAS-Lab Code: L9069**

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

#### **A2LA-Lab Certificate No.: 4312.01**

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### **ISED Wireless Device Testing Laboratories**

CAB identifier: CN0032

#### **FCC Accredited Lab.**

Designation Number: CN1194

Test Firm Registration Number: 259480

### 1.6 DEVIATION FROM STANDARDS

None.

## 1.7 ABNORMALITIES FROM STANDARD CONDITIONS

None.

## 1.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

## 1.9 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted emission 9KHz-150KHz	±3.8 dB
2	Conducted emission 150KHz-30MHz	±3.4 dB
3	Radiated emission 9KHz-30MHz	±4.9 dB
4	Radiated emission 30MHz-1GHz	±4.7 dB
5	Radiated emission 1GHz-18GHz	±5.1 dB
6	Radiated emission 18GHz-26GHz	±5.2 dB
7	Radiated emission 26GHz-40GHz	±5.2 dB

## 2. TEST SUMMARY

FCC 47 CFR Part 15 Subpart B Test Cases			
Test Item	Test Requirement	Test Method	Result
Conducted Emission	FCC 47 CFR Part 15.107	ANSI C63.4-2014	PASS
Radiated Emission	FCC 47 CFR Part 15.109	ANSI C63.4-2014	PASS

## 3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
<input checked="" type="checkbox"/>	3M Chamber & Accessory Equipment	ETS-LINDGREN	3M	N/A	Dec. 03, 2018	Dec. 03, 2021
<input checked="" type="checkbox"/>	Receiver	R&S	ESIB26	100114	Nov. 24, 2018	Nov. 24, 2019
<input type="checkbox"/>	Loop Antenna	ETS-LINDGREN	6502	00202525	Dec. 03, 2018	Dec. 03, 2019
<input checked="" type="checkbox"/>	Broadband Antenna	ETS-LINDGREN	3142E	00201566	Dec. 08, 2018	Dec. 08, 2019
<input checked="" type="checkbox"/>	6dB Attenuator	Talent	RA6A5-N-18	18103001	Dec. 08, 2018	Dec. 08, 2019
<input checked="" type="checkbox"/>	Preamplifier	HP	8447F	2805A02960	Nov. 24, 2018	Nov. 24, 2019
<input checked="" type="checkbox"/>	Horn Antenna	ETS-LINDGREN	3117	00164202	Dec. 08, 2018	Dec. 08, 2019
<input checked="" type="checkbox"/>	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	Jan. 05, 2019	Jan. 05, 2020
<input checked="" type="checkbox"/>	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
<input checked="" type="checkbox"/>	Test Software	Audix	e3	Software Version: 9.160333		

Conducted Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
<input checked="" type="checkbox"/>	Receiver	R&S	ESR7	1316.3003K07-101181-K3	Nov. 24, 2018	Nov. 24, 2019
<input checked="" type="checkbox"/>	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	Nov. 24, 2018	Nov. 24, 2019
<input checked="" type="checkbox"/>	LISN	R&S	ESH2-Z5	860014/024	Nov. 24, 2018	Nov. 24, 2019
<input type="checkbox"/>	LISN	ETS-Lindgren	3816/2SH	00201088	Nov. 24, 2018	Nov. 24, 2019
<input checked="" type="checkbox"/>	Test Software	Audix	e3	Software Version: 9.160323		



## 4. TEST CONFIGURATION

### 4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

#### 4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
NT/NV	+15 to +35	3.7	20 to 75
<b>Remark:</b> 1) NV: Normal Voltage; NT: Normal Temperature			

#### 4.1.2 Record of Normal Environment

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)	Tested by
Conducted Emission	24.8	50	99.80	Bert Xiong
Radiated Emission	26.2	55	100.06	Asia Yan

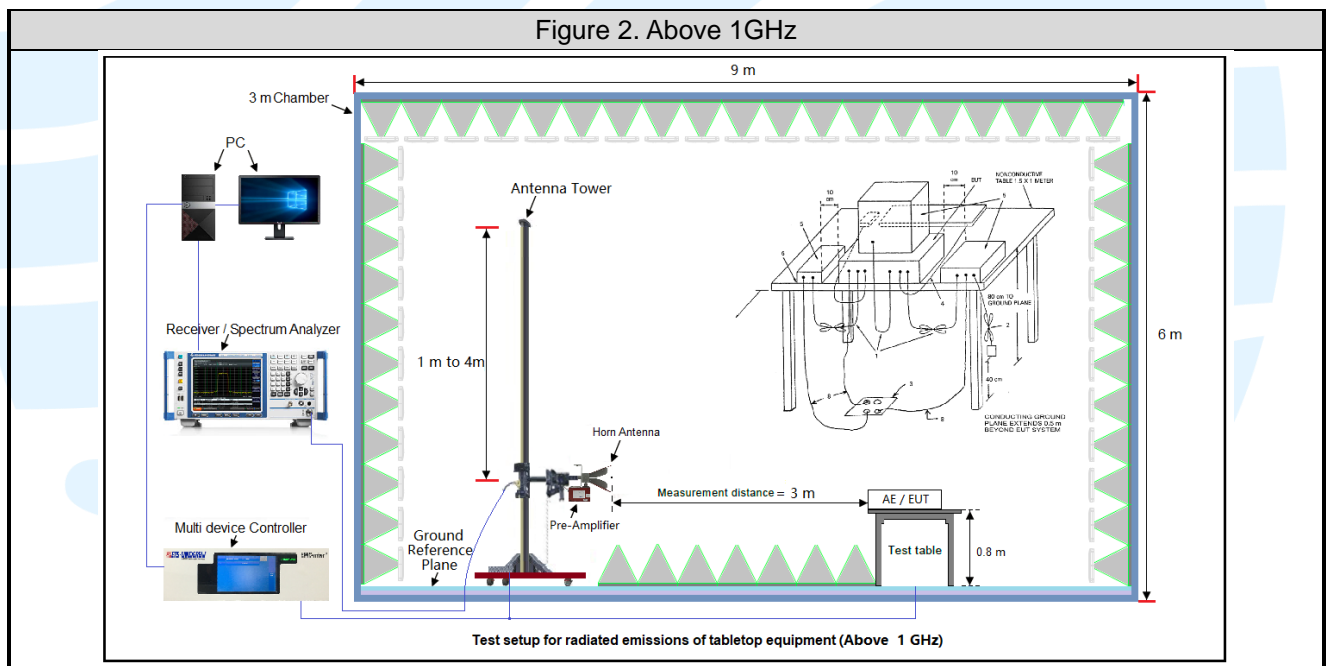
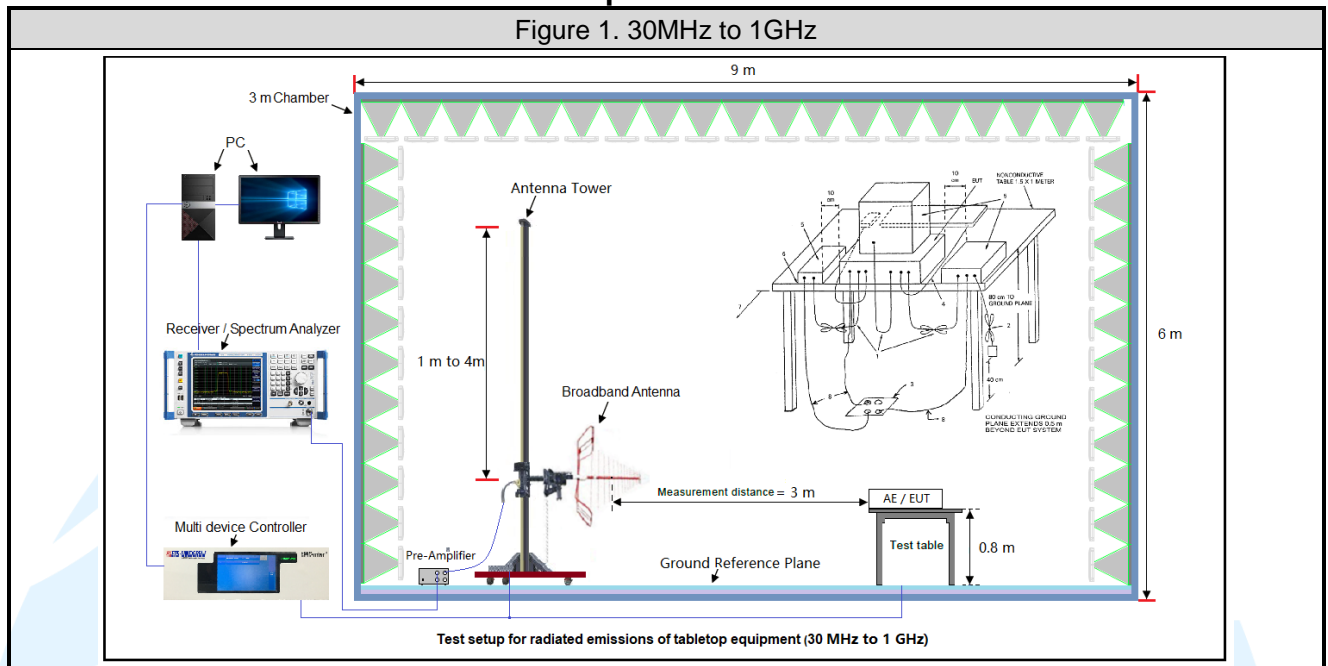
## 4.2 TEST MODES

Test Item	EMI Test Modes
Radiated Emission	<p>-----Test Mode 1~6 is for J4</p> <p><b>Mode 1: Charging from 120 Vac + MP4 playing (With TF Card) + Earphone</b></p> <p>Mode 2: Charging from 120 Vac + FM (With Earphone) + With TF Card</p> <p>Mode 3: Charging from 120 Vac + Camera (Rear) + With TF Card</p> <p>Mode 4: Charging from 120 Vac + Camera (Front) + With TF Card</p> <p><b>Mode 5: Charging from 240 Vac + Worse from mode 1~4 + GPS on</b></p> <p>Mode 6: USB Cable (data transfer with notebook) + With TF Card</p> <p>-----Worst case from mode 1~6 (Mode 7) is for C5 PLUS</p> <p>Mode 7: Charging from 240 Vac + MP4 playing (With TF Card) + Earphone + GPS on</p>
Conducted Emission	<p>-----Test Mode 1~5 is for J4</p> <p>Mode 1: Charging from 120 Vac + MP4 playing (With TF Card) + Earphone</p> <p><b>Mode 2: Charging from 120 Vac + FM (With Earphone) + With TF Card</b></p> <p>Mode 3: Charging from 120 Vac + Camera (Rear) + With TF Card</p> <p>Mode 4: Charging from 120 Vac + Camera (Front) + With TF Card</p> <p>Mode 5: Charging from 240 Vac + Worse from mode 1~4 + GPS on</p> <p>-----Worst case from mode 1~5 (Mode 6) is for C5 PLUS</p> <p>Mode 6: Charging from 120 Vac + FM (With Earphone) + With TF Card</p>
<b>Remark:</b> 1. All possible test modes have been investigated with J4 and only worst case has been investigated with C5 PLUS. 2. The above test modes in boldface were the worst cases, only the test data of these modes were reported.	



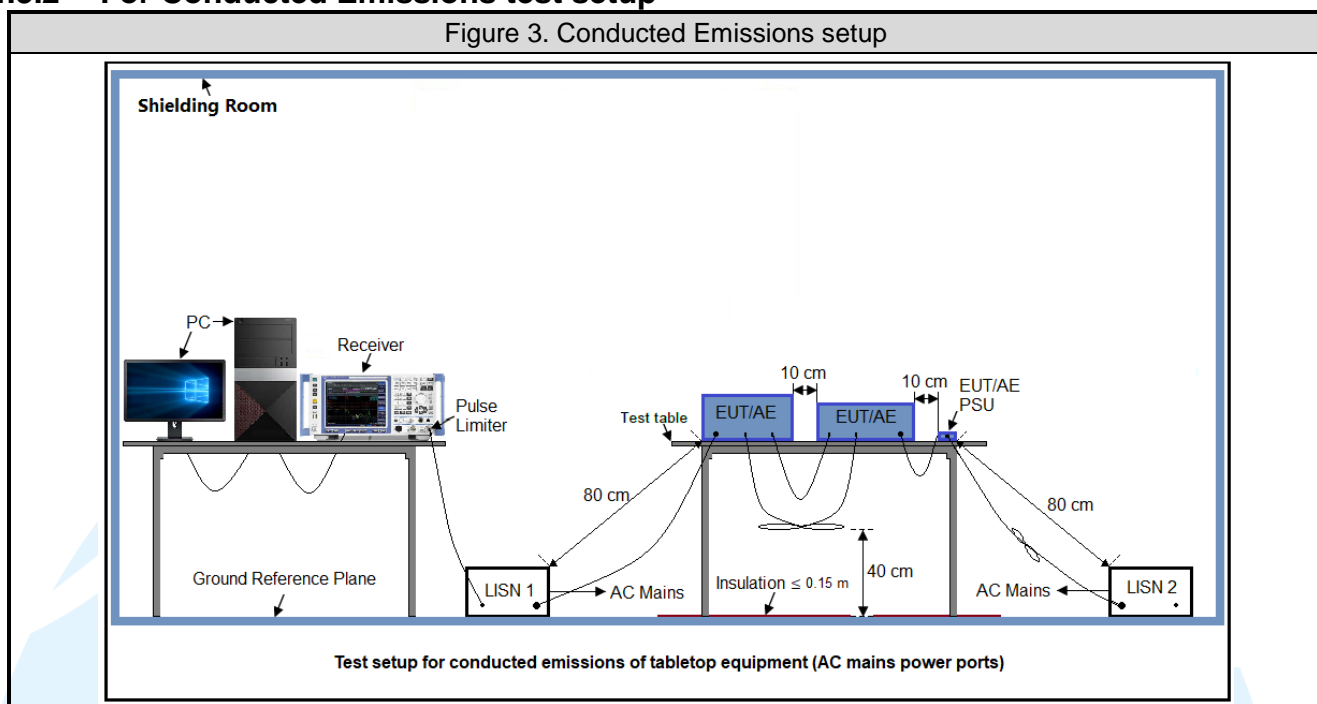
### 4.3 TEST SETUP

#### 4.3.1 For Radiated Emissions test setup



#### 4.3.2 For Conducted Emissions test setup

Figure 3. Conducted Emissions setup



#### 4.4 SYSTEM TEST CONFIGURATION

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000MHz. The resolution is 1 MHz or greater for frequencies above 1000MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic (according to KDB 896810 D02 SDoC FAQ v01r01) of the highest fundamental frequency or to 40 GHz, whichever is lower.

## 5. REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part15 Subpart B	Unintentional Radiators
2	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
3	KDB 174176 D01 Line Conducted FAQ v01r01	AC power-line conducted emission frequency asked questions
4	KDB 896810 D02 SDoC FAQ v01r02	Supplier's Declaration of Conformity frequency asked questions

## 6. EMC REQUIREMENTS SPECIFICATION

### 6.1 RADIATED EMISSION

**Test Requirement:** FCC 47 CFR Part 15.109

**Test Method:** ANSI C63.4-2014

**Receiver Setup:**

Frequency: (f) (MHz)	Detector type	Measurement receiver bandwidth	
		RBW	VBW
$30 \leq f \leq 1\,000$	Quasi Peak	120 kHz	300 kHz
$f \geq 1000$	Peak	1 MHz	3 MHz
	Average	1 MHz	3 MHz

**Measured frequency range**

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30.
1.705-108	1000.
108-500	2000.
500-1000	5000.
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

**Limits:**

Limits for Class B devices

Frequency (MHz)	limits at 3m (dB $\mu$ V/m)		
	QP Detector	PK Detector	AV Detector
30-88	40.0	--	--
88-216	43.5	--	--
216-960	46.0	--	--
960 to 1000	54.0	--	--
Above 1000	--	74.0	54.0

**Remark:**

- The lower limit shall apply at the transition frequencies.
- Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

**Test Setup:** Refer to section 4.3.1 for details.

**Test Procedures:**

- From 30 MHz to 1GHz test procedure as below:

### Shenzhen UnionTrust Quality and Technology Co., Ltd.

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Fax: +86-755-28230886

E-mail: info@uttlab.com

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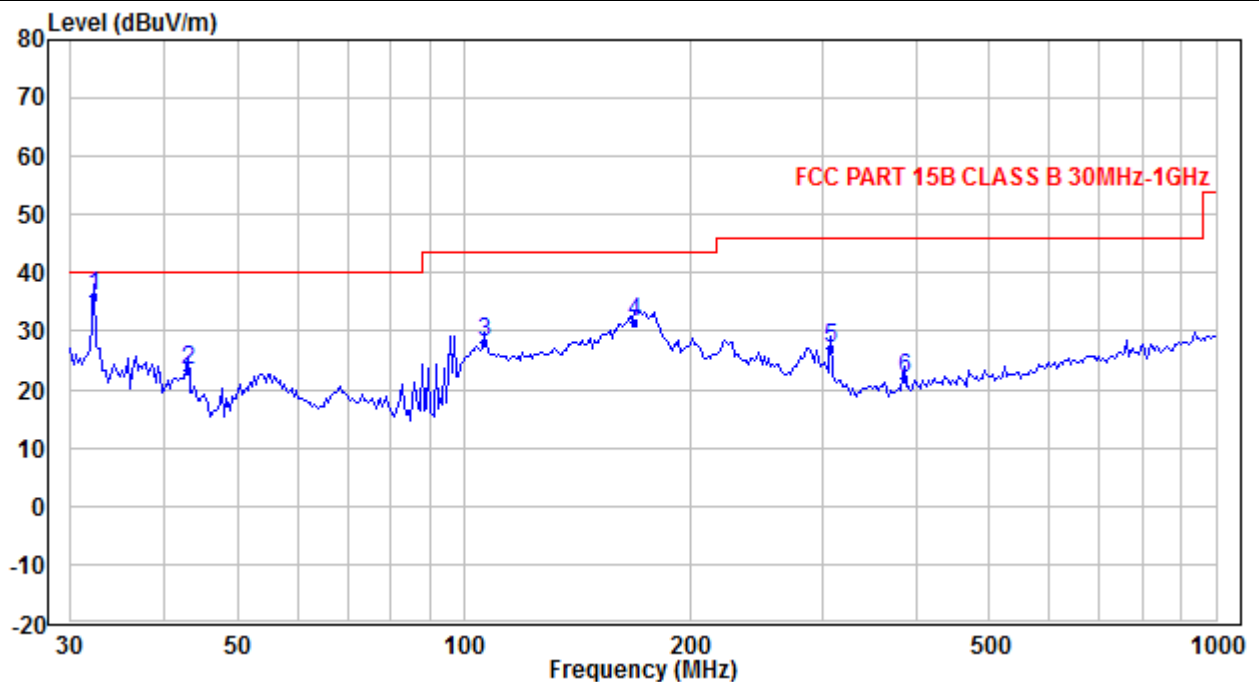
- 1) The Product was placed on the non-conductive turntable 0.8 m above the ground at a chamber.
  - 2) Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
  - 3) For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.
2. Above 1GHz test procedure as below:
- 1) The Product was placed on the non-conductive turntable 0.8 m above the ground at a chamber.
  - 2) Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 1MHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
  - 3) For each frequency whose maximum record was higher or close to limit, measure its AV value: rotate the turntable from 0 to 360 degrees to find the degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to AV value and specified bandwidth with Maximum Hold Mode, and record the maximum value.

**Equipment Used:** Refer to section 3 for details.

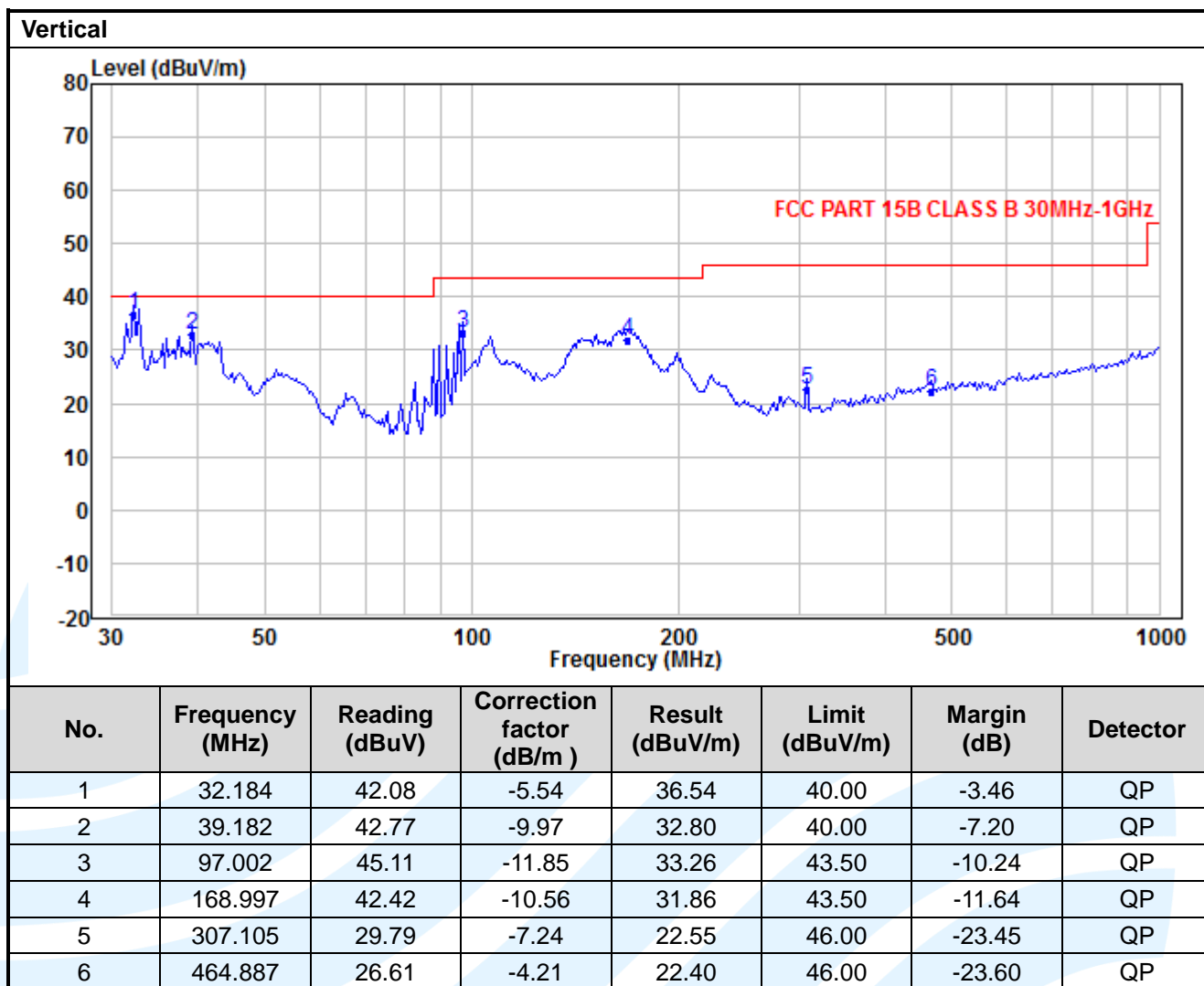
**Test Result:** Pass

**The worst measurement data as follows:**

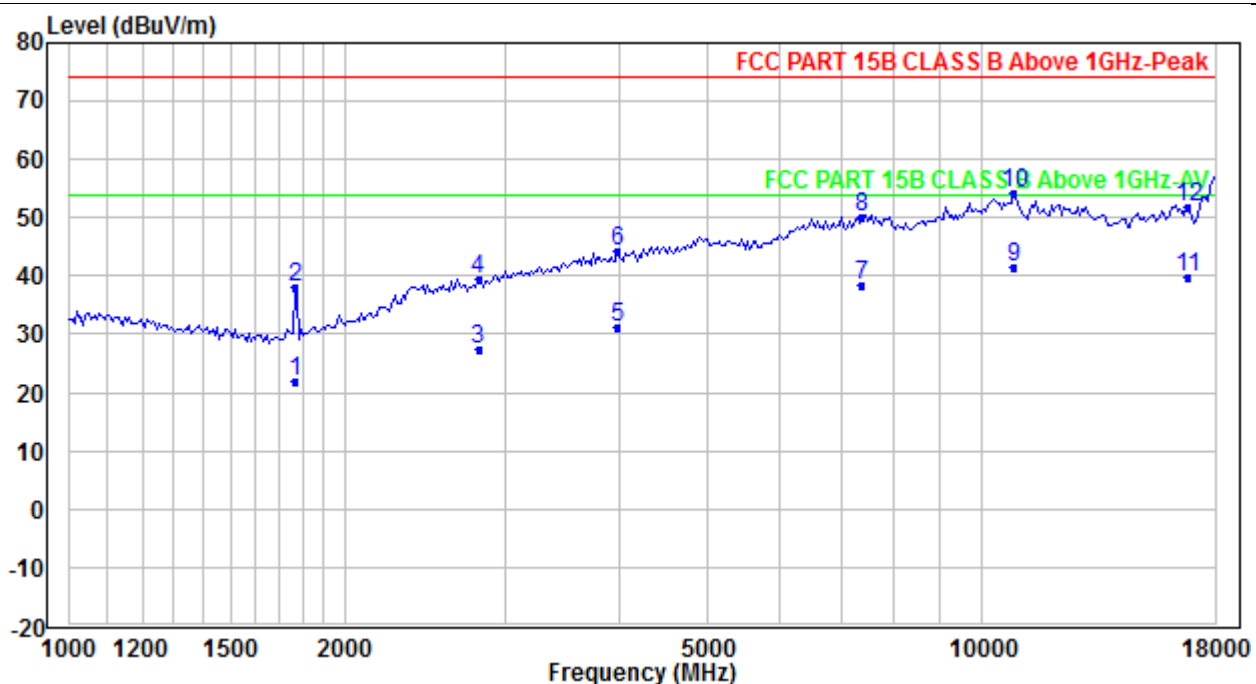
**Below 1GHz(Quasi Peak):**  
**Mode5**  
**Horizontal**



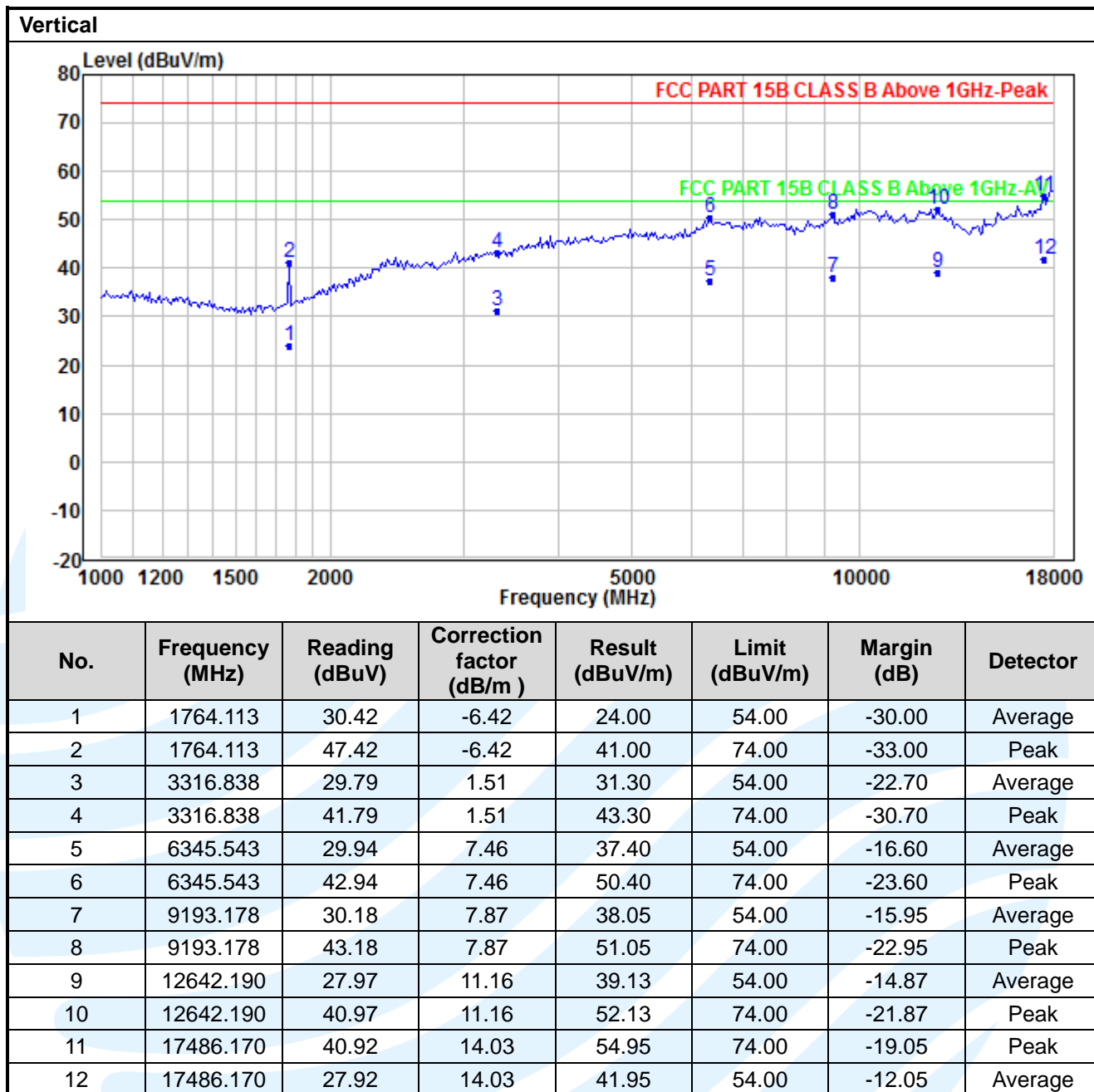
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m )	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.184	41.47	-5.54	35.93	40.00	-4.07	QP
2	42.931	34.76	-11.42	23.34	40.00	-16.66	QP
3	106.281	39.92	-11.93	27.99	43.50	-15.51	QP
4	168.997	42.20	-10.56	31.64	43.50	-11.86	QP
5	307.105	34.28	-7.24	27.04	46.00	-18.96	QP
6	384.545	27.40	-5.44	21.96	46.00	-24.04	QP



Above 1GHz(Peak & Average)  
Mode1  
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1764.113	30.56	-8.47	22.09	54.00	-31.91	Average
2	1764.113	46.56	-8.47	38.09	74.00	-35.91	Peak
3	2803.965	29.47	-1.88	27.59	54.00	-26.41	Average
4	2803.965	41.47	-1.88	39.59	74.00	-34.41	Peak
5	3992.296	28.76	2.49	31.25	54.00	-22.75	Average
6	3992.296	41.76	2.49	44.25	74.00	-29.75	Peak
7	7376.898	31.19	7.08	38.27	54.00	-15.73	Average
8	7376.898	43.19	7.08	50.27	74.00	-23.73	Peak
9	10811.890	30.32	11.05	41.37	54.00	-12.63	Average
10	10811.890	43.32	11.05	54.37	74.00	-19.63	Peak
11	16791.350	26.50	13.23	39.73	54.00	-14.27	Average
12	16791.350	38.50	13.23	51.73	74.00	-22.27	Peak



**Remark:**

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. All possible modes of operation were investigated, and testing at two nominal voltages of 240V/50Hz and 120V/60Hz, only the worst case emissions reported.



## 6.2 CONDUCTED EMISSION

**Test Requirement:** FCC 47 CFR Part 15.107

**Test Method:** ANSI C63.4-2014

**Limits:**

Limits for Class B devices

Frequency range (MHz)	Limits (dB(μV))	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

**Remark:**

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

**Test Setup:** Refer to section 4.3.2 for details.

**Test Procedures:**

- 1) The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- 2) The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- 3) For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

**Equipment Used:** Refer to section 3 for details.

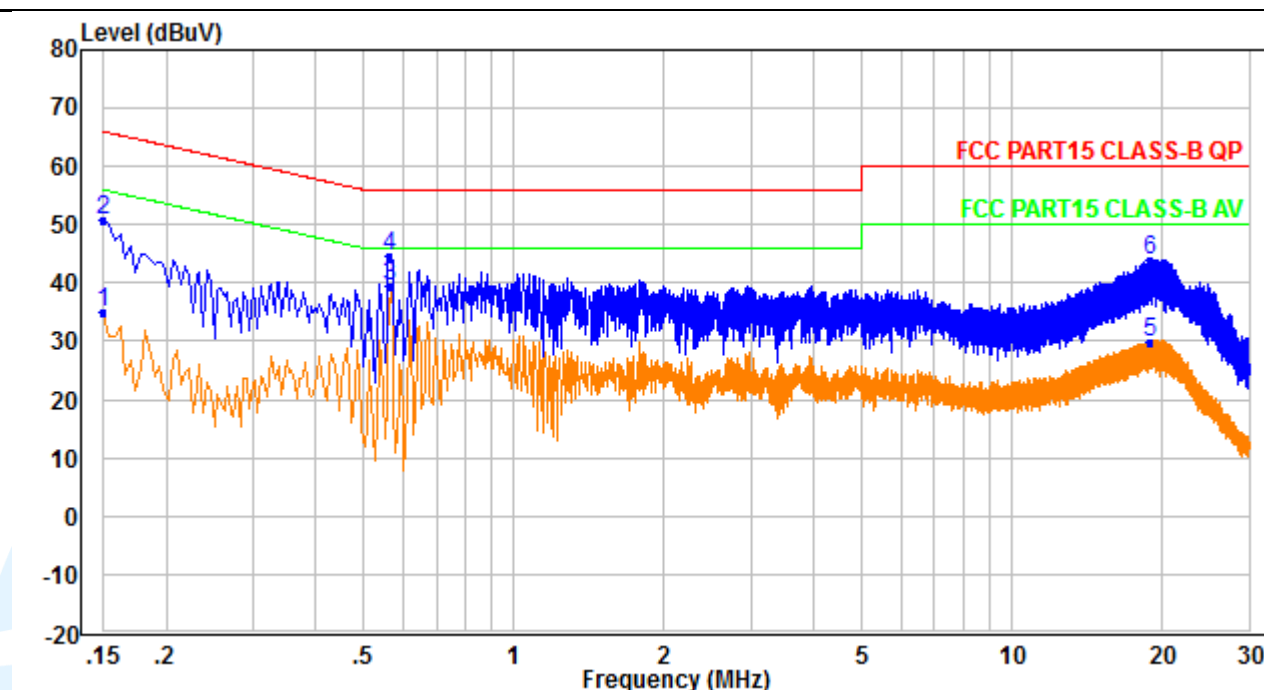
**Test Result:** Pass

The measurement data as follows:

Quasi Peak and Average:

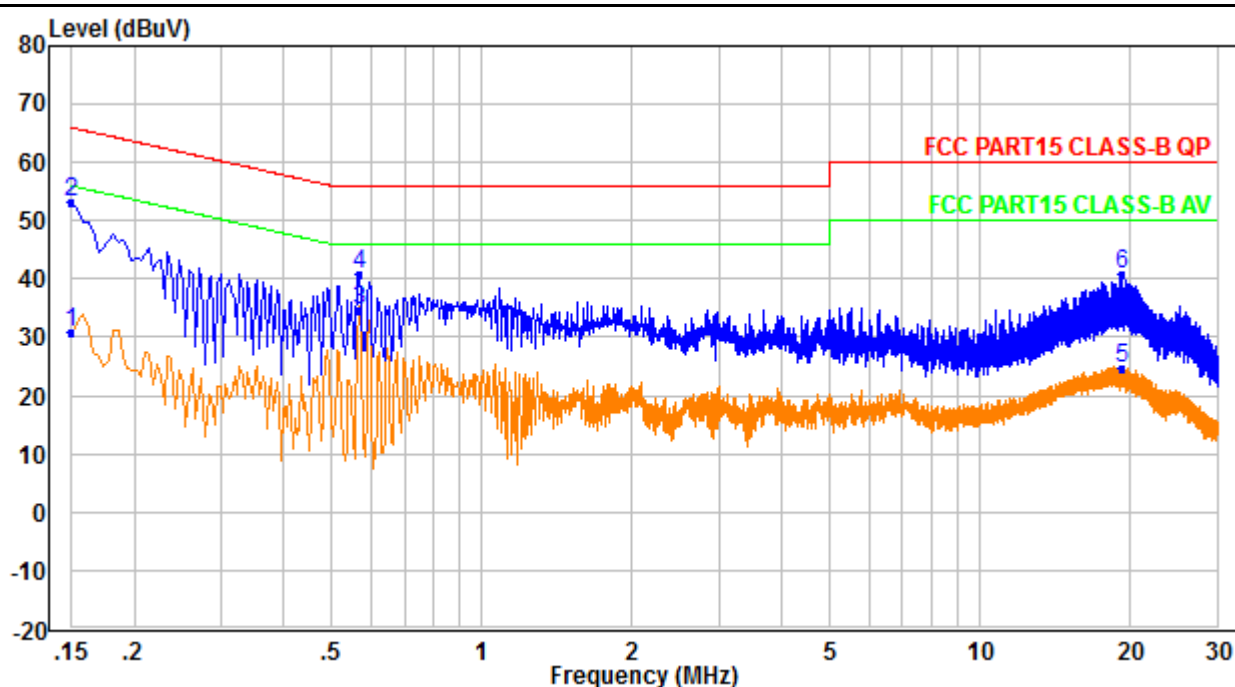
Mode 2

Live Line



No.	Frequency (MHz)	Reading (dBUV)	Correction factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Detector
1	0.150	24.79	10.04	34.83	56.00	-21.17	Average
2	0.150	40.80	10.04	50.84	66.00	-15.16	QP
3	0.562	29.36	10.00	39.36	46.00	-6.64	Average
4	0.562	34.45	10.00	44.45	56.00	-11.55	QP
5	18.961	17.42	12.46	29.88	50.00	-20.12	Average
6	18.961	31.51	12.46	43.97	60.00	-16.03	QP

### Neutral Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.150	21.02	10.01	31.03	56.00	-24.97	Average
2	0.150	43.09	10.01	53.10	66.00	-12.90	QP
3	0.566	24.76	9.98	34.74	46.00	-11.26	Average
4	0.566	30.89	9.98	40.87	56.00	-15.13	QP
5	19.393	12.35	12.21	24.56	50.00	-25.44	Average
6	19.393	28.46	12.21	40.67	60.00	-19.33	QP

### Remark:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.
5. All possible modes of operation were investigated, and testing at two nominal voltages of 240V/50Hz and 120V/60Hz, only the worst case emissions reported.

## APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

## APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

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\*\*\*\*\* End of Report \*\*\*\*\*

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.

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