

FCC TEST REPORT

Product Name: active noise-canceling headphones
Trade Mark: heyday
Model No.: ANC1
Add. Model No.: N/A
Report Number: 200630017EMC-1
Test Standards: FCC 47 CFR Part 15 Subpart B
Test Result: PASS
Date of Issue: August 20, 2020

Prepared for:

Chug, Inc.

7157 Shady Oak Road Eden Prairie, Washington Minnesota United States

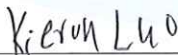
Prepared by:

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:



Kieron Luo

Project Engineer

Reviewed by:



Kevin Liang

Assistant Manager

Approved by:


Billy Li

Technical Director

Date:

August 20, 2020

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@utllab.com

<http://www.utllab.com>

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Version

Version No.	Date	Description
V1.0	August 20, 2020	Original



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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

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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Chug, Inc.
Address of Applicant:	77157 Shady Oak Road Eden Prairie, Washington Minnesota United States
Manufacturer:	Cresyn Hanoi Co., Ltd.
Address of Manufacturer:	Dong Tho Industrial complex / Dong Tho Hamlet, Yen Phong District, Bac Ninh, Vietnam, Bac Ninh, Bac Ninh, Vietnam

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	active noise-canceling headphones
Model No.:	ANC1
Add. Model No.:	N/A
Trade Mark:	heyday
DUT Stage:	Production Unit
Rated Voltage:	5V  1.5A and/or 3.7V Lithium battery
Classification of digital devices:	Class B
Highest Internal Frequency:	2.48 GHz
Software Version:	Ver1.0
Hardware Version:	Ver1.0
Sample Received Date:	August 18, 2020
Sample Tested Date:	August 18, 2020 to August 19, 2020
Note: Interchangeable if PCBA conditions are the same.	

1.2.2 Description of Accessories

Battery	
Model No.:	PL602540
Battery Type:	Lithium-ion Rechargeable Battery
Rated Voltage:	3.7 Vdc
Limited Charge Voltage:	4.2 Vdc
Rated Capacity:	550 mAh
Manufacturer:	SHEN ZHEN BETTERPOWER BATTERY CO LTD

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
mobile phone	Apple	iPhone 8	N/A	UnionTrust
Adapter	Apple	A1443	N/A	UnionTrust

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	USB cable	SMA	0.50 Meter	UnionTrust

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Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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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	±3.2 dB

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2	Conducted emission 150KHz-30MHz	± 2.7 dB
3	Radiated emission 9KHz-30MHz	± 4.7 dB
4	Radiated emission 30MHz-1GHz	± 4.6 dB
5	Radiated emission 1GHz-18GHz	± 4.4 dB
6	Radiated emission 18GHz-26GHz	± 4.6 dB
7	Radiated emission 26GHz-40GHz	± 4.6 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)
☒	3M Chamber & Accessory Equipment	ETS-LINDGREN	3M	N/A	Dec. 03, 2018	Dec. 03, 2021
☒	Receiver	R&S	ESIB26	100114	Nov. 24, 2019	Nov. 23, 2020
☐	Loop Antenna	ETS-LINDGREN	6502	00202525	Nov. 24, 2019	Nov. 23, 2020
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	Nov. 16, 2019	Nov. 15, 2020
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	Nov. 16, 2019	Nov. 15, 2020
☒	Preamplifier	HP	8447F	2805A02960	Nov. 16, 2019	Nov. 15, 2020
☐	Broadband Antenna (Pre-amplifier)	ETS-LINDGREN	3142E-PA	00201891	Nov. 24, 2019	Nov. 23, 2020
☐	6dB Attenuator	Talent	RA6A5-N-18	18103002	Nov. 24, 2019	Nov. 23, 2020
☐	Horn Antenna	ETS-LINDGREN	3117	00164202	Nov. 24, 2019	Nov. 23, 2020
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201874	Nov. 16, 2019	Nov. 15, 2020
☐	Horn Antenna	ETS-LINDGREN	3116C	00200180	June 19, 2020	June 18, 2021
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	Nov. 16, 2019	Nov. 15, 2020
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

Conducted Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
☒	Receiver	R&S	ESR7	1316.3003K07-101181-K3	Nov. 24, 2019	Nov. 23, 2020
☒	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	Nov. 24, 2019	Nov. 23, 2020
☒	LISN	R&S	ESH2-Z5	860014/024	Nov. 24, 2019	Nov. 23, 2020
☐	LISN	ETS-Lindgren	3816/2SH	00201088	Nov. 24, 2019	Nov. 23, 2020
☒	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
Remark: 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	25.1	54.0	99.5	Tpipp Jiang
Radiated Emission	25.4	55.0	100.7	Lucas Ou

4.2 TEST MODES

Test Item	EMI Test Modes
Radiated Emission	Mode 1: Charging(120V AC) Mode 2: Audio input play mode Mode 3: Bluetooth Playback mode
Conducted Emission	Mode 1: Charging(120V AC)

4.3 TEST SETUP

4.3.1 For Radiated Emissions test setup

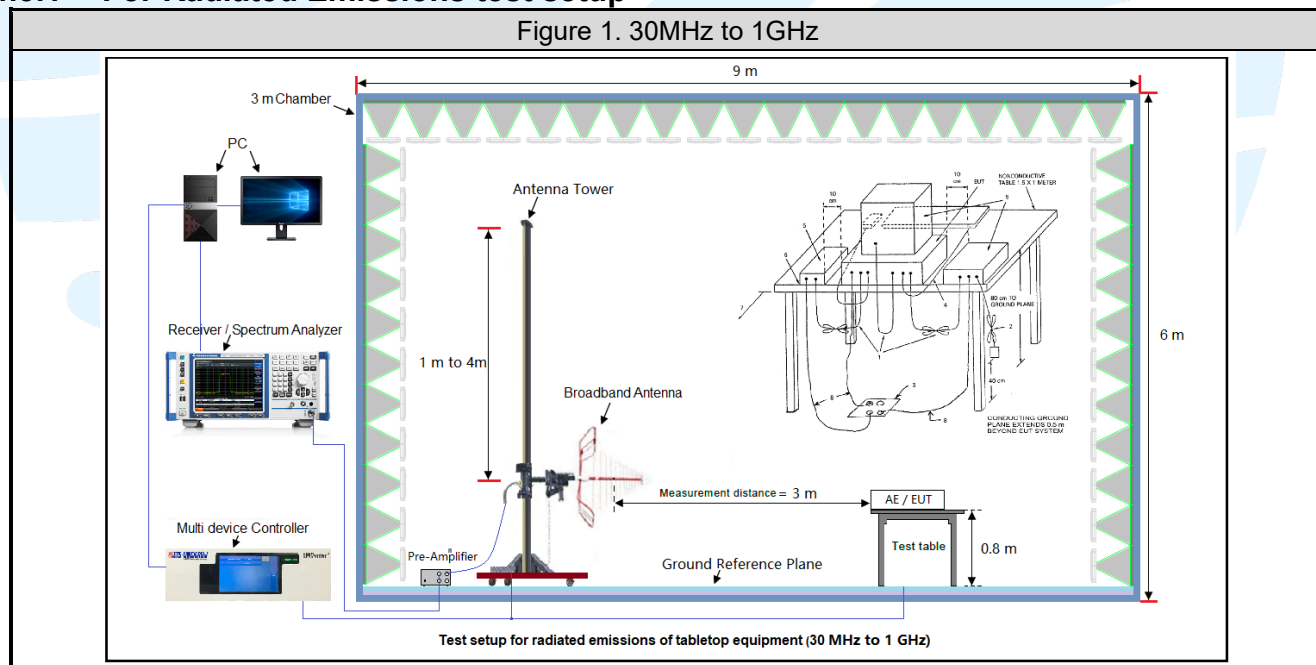


Figure 2. Above 1GHz

The diagram illustrates the test setup for radiated emissions of tabletop equipment (Above 1 GHz) within a 3 m Chamber. The chamber dimensions are 9 m by 6 m. The setup includes a PC connected to a Receiver / Spectrum Analyzer and a Multi device Controller. The Receiver / Spectrum Analyzer is connected to the Multi device Controller. The Multi device Controller is connected to the test setup. The test setup includes an Antenna Tower (1 m to 4 m high), a Horn Antenna, a Pre-Amplifier, a Ground Reference Plane, and a Test table (0.8 m high). The measurement distance is 3 m. The test setup is for radiated emissions of tabletop equipment (Above 1 GHz).

Figure 3. Conducted Emissions setup

Figure 3. Conducted Emissions setup

The diagram illustrates the setup for measuring conducted emissions from tabletop equipment. The entire setup is contained within a **Shielding Room**. On the left, a **PC** and a **Receiver** are connected to a **Pulse Limiter**. A **Ground Reference Plane** is indicated at the base of the receiver area. The equipment under test (**EUT/AE**) is placed on a **Test table**, which is elevated 40 cm from the floor by **Insulation ≤ 0.15 m**. The EUT/AE is connected to **AC Mains** via **LISN 1** and **LISN 2**. The distance from the receiver to LISN 1 is 80 cm. The distance from LISN 2 to the AC Mains is 80 cm. The distance between the two EUT/AE units is 10 cm, and the distance from the EUT/AE to the AC Mains is 10 cm. A **PSU** (Power Supply Unit) is also connected to the AC Mains.

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 μ 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 μ V/m) = 20 log Emission level (μ 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.

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

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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:

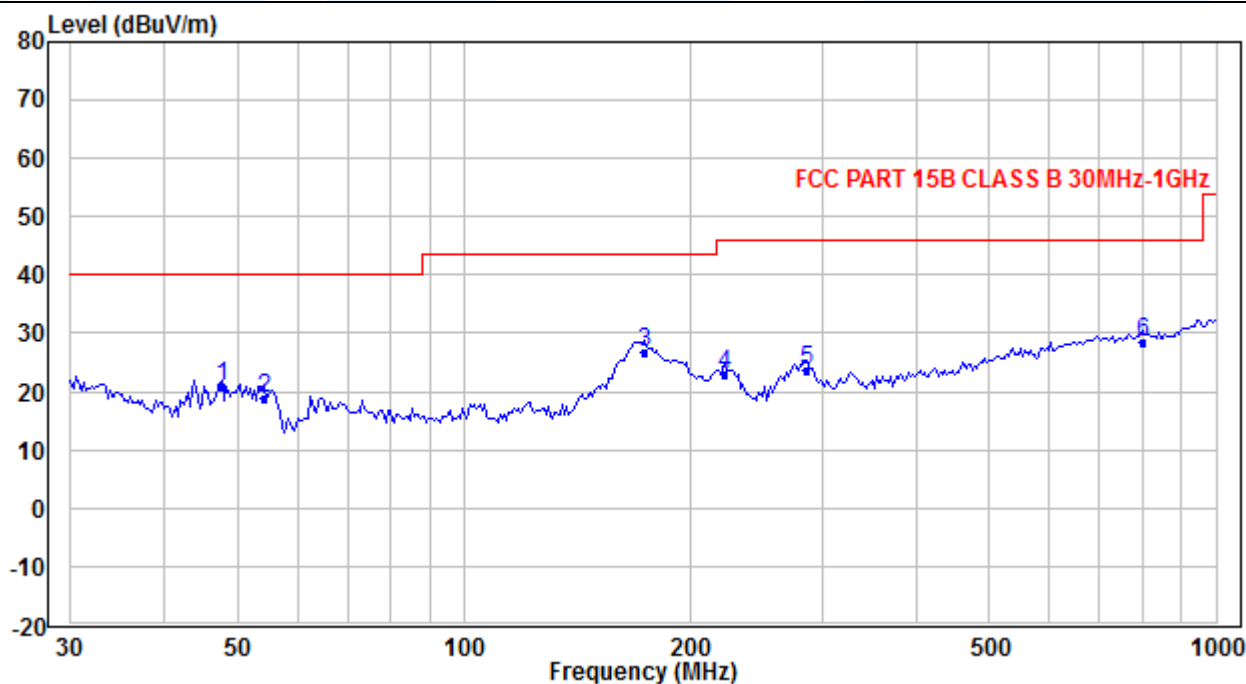
- 1) The Product was placed on the non-conductive turntable 0.8 m above the ground at a chamber.
- 2) Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 1MHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied in both horizontal 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.

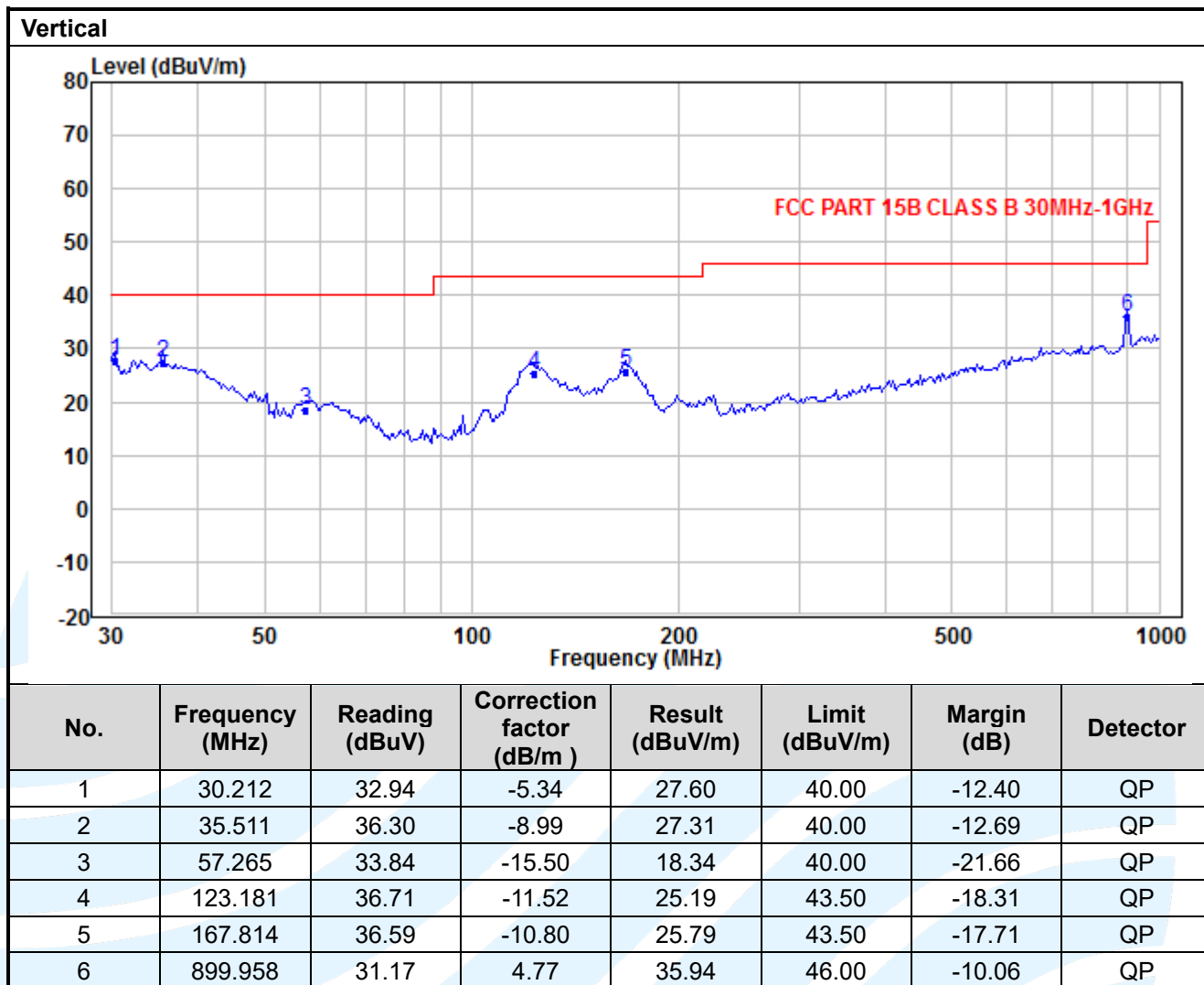
Test Result: Pass

The measurement data as follows:

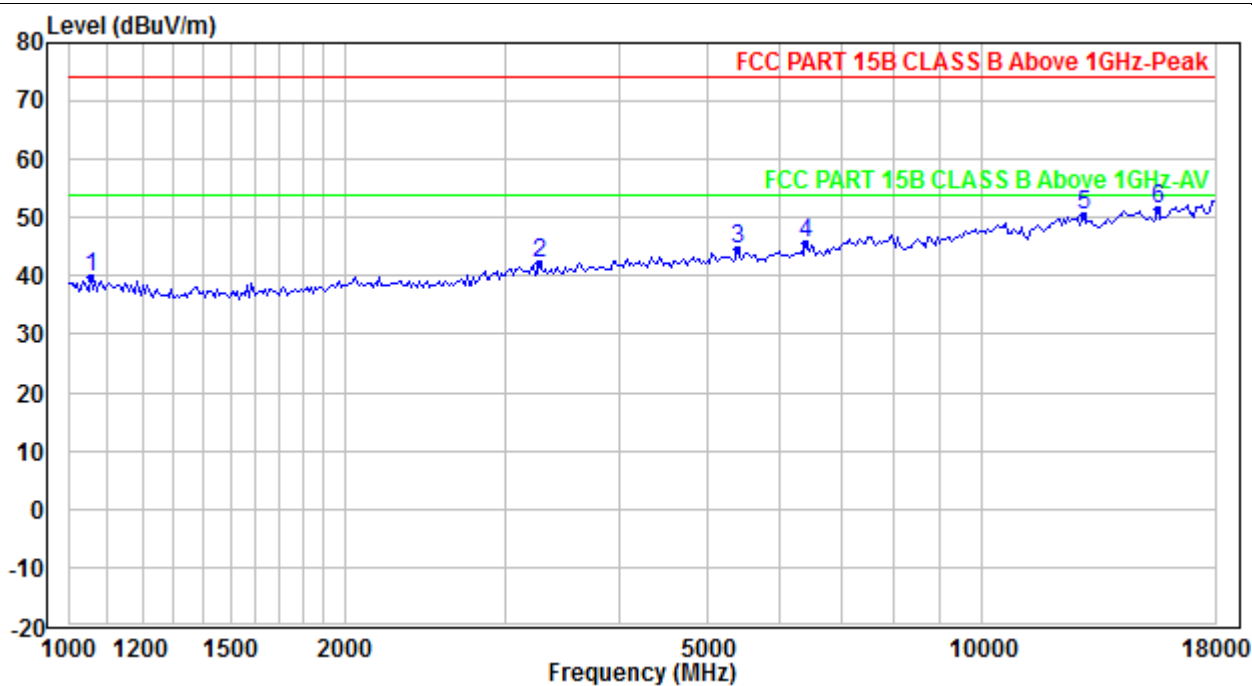
Below 1GHz(Quasi Peak):
worst-case :Mode 1
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.703	35.61	-14.62	20.99	40.00	-19.01	QP
2	54.135	34.45	-15.57	18.88	40.00	-21.12	QP
3	173.815	37.38	-10.59	26.79	43.50	-16.71	QP
4	222.281	31.20	-8.30	22.90	46.00	-23.10	QP
5	286.265	29.63	-6.15	23.48	46.00	-22.52	QP
6	798.620	24.89	3.55	28.44	46.00	-17.56	QP



Above 1GHz(Peak & Average)
worst-case :Mode 1
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1053.514	50.67	-10.84	39.83	74.00	34.17	Peak
2	3278.635	48.53	-6.31	42.22	74.00	31.78	Peak
3	5395.512	45.95	-1.40	44.55	74.00	29.45	Peak
4	6419.481	45.97	-0.17	45.80	74.00	28.20	Peak
5	12938.520	40.60	9.92	50.52	74.00	23.48	Peak
6	15573.390	40.49	11.01	51.50	74.00	22.50	Peak

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Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

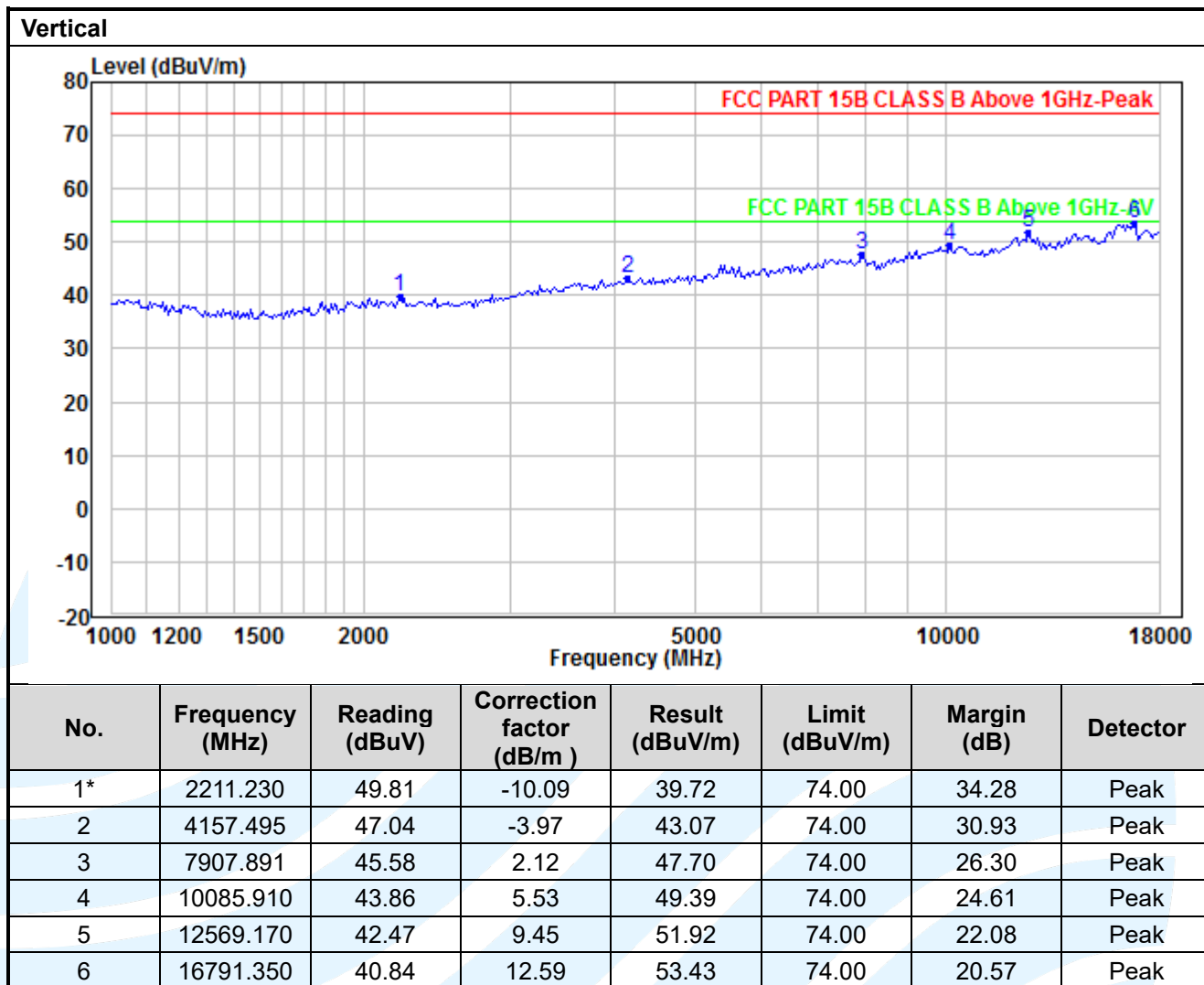
Tel: +86-755-28230888

Fax: +86-755-28230886

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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. For Radiated Emission above 18GHz, there was not any unwanted emission detected.
5. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. 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. So, only the peak measurements were shown in the report.

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.

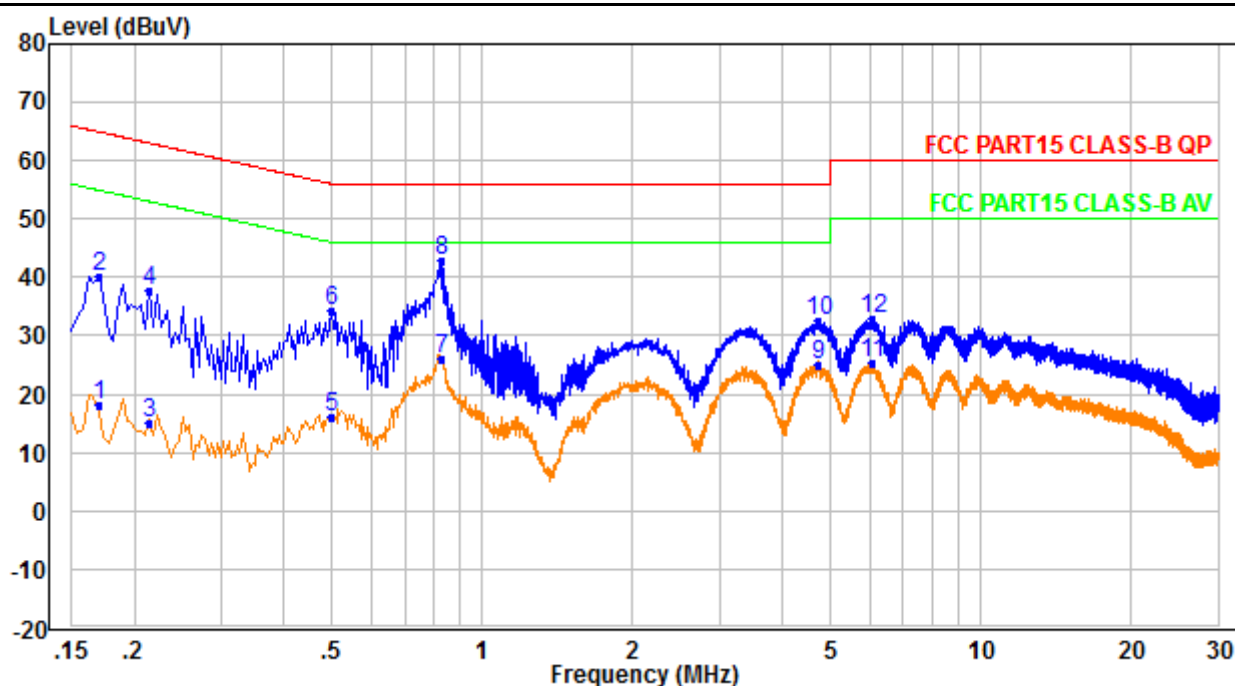
Test Result: Pass

The measurement data as follows:

Quasi Peak and Average:

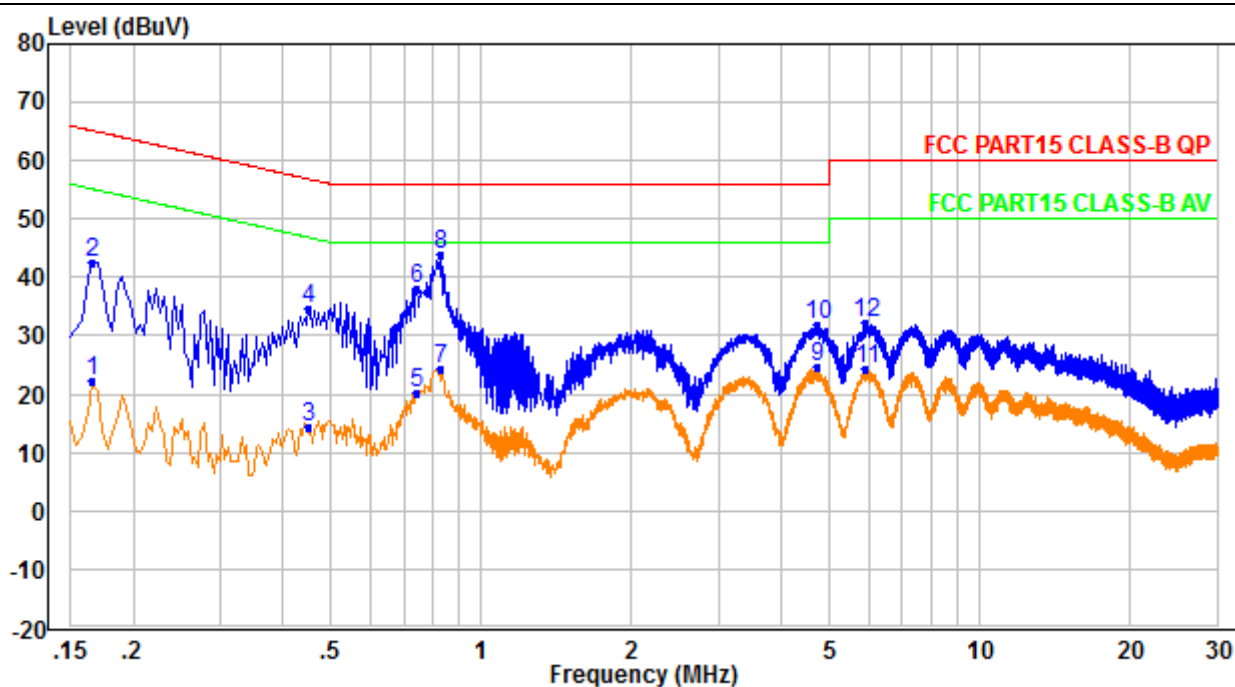
Mode 1

Live Line



No.	Frequency (MHz)	Reading (dBUV)	Correction factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Detector
1	0.170	8.93	9.14	18.07	54.96	-36.89	Average
2	0.170	30.98	9.14	40.12	64.96	-24.84	QP
3	0.214	5.93	9.18	15.11	53.05	-37.94	Average
4	0.214	28.55	9.18	37.73	63.05	-25.32	QP
5	0.498	6.76	9.41	16.17	46.03	-29.86	Average
6	0.498	24.72	9.41	34.13	56.03	-21.90	Average
7	0.826	16.51	9.50	26.01	46.00	-19.99	QP
8	0.826	33.37	9.50	42.87	56.00	-13.13	Average
9	4.734	15.54	9.62	25.16	46.00	-20.84	QP
10	4.734	22.85	9.62	32.47	56.00	-23.53	Average
11	6.058	15.73	9.64	25.37	50.00	-24.63	Average
12	6.058	23.29	9.64	32.93	60.00	-27.07	QP

Neutral Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.166	13.07	9.14	22.21	55.16	-32.95	Average
2	0.166	33.53	9.14	42.67	65.16	-22.49	QP
3	0.450	5.06	9.35	14.41	46.88	-32.47	Average
4	0.450	25.37	9.35	34.72	56.88	-22.16	QP
5	0.742	10.63	9.50	20.13	46.00	-25.87	Average
6	0.742	28.59	9.50	38.09	56.00	-17.91	QP
7	0.826	14.86	9.50	24.36	46.00	-21.64	Average
8	0.826	34.54	9.50	44.04	56.00	-11.96	QP
9	4.718	14.90	9.62	24.52	46.00	-21.48	Average
10	4.718	22.40	9.62	32.02	56.00	-23.98	QP
11	5.914	14.55	9.63	24.18	50.00	-25.82	Average
12	5.914	22.46	9.63	32.09	60.00	-27.91	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.

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APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the TEST SETUP (FCC Part 15B).

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

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

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