

EMC Test Report

Application No. : TB200826254
Applicant : Shen Zhen Woody Vapes Technology Co., Ltd.
Equipment Under Test (EUT)
EUT Name : DRAG MAX
Model No. : DRAG MAX
Series Model No. : N/A
Brand Name : VOOPOO
Receipt Date : 2020-08-20
Test Date : 2020-08-21 to 2020-08-24
Issue Date : 2020-08-24
Standards : EN 61000-6-3:2007+A1:2011
EN 61000-6-1:2007
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above
The EUT technically complies with the 2014/30/EU directive requirements

Test/Witness Engineer :

Rebecca

Rebecca

Engineer Supervisor :

Wan

Engineer Manager :

Ray Lai

Ray Lai



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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Revision History

[illegible]

1. General Information

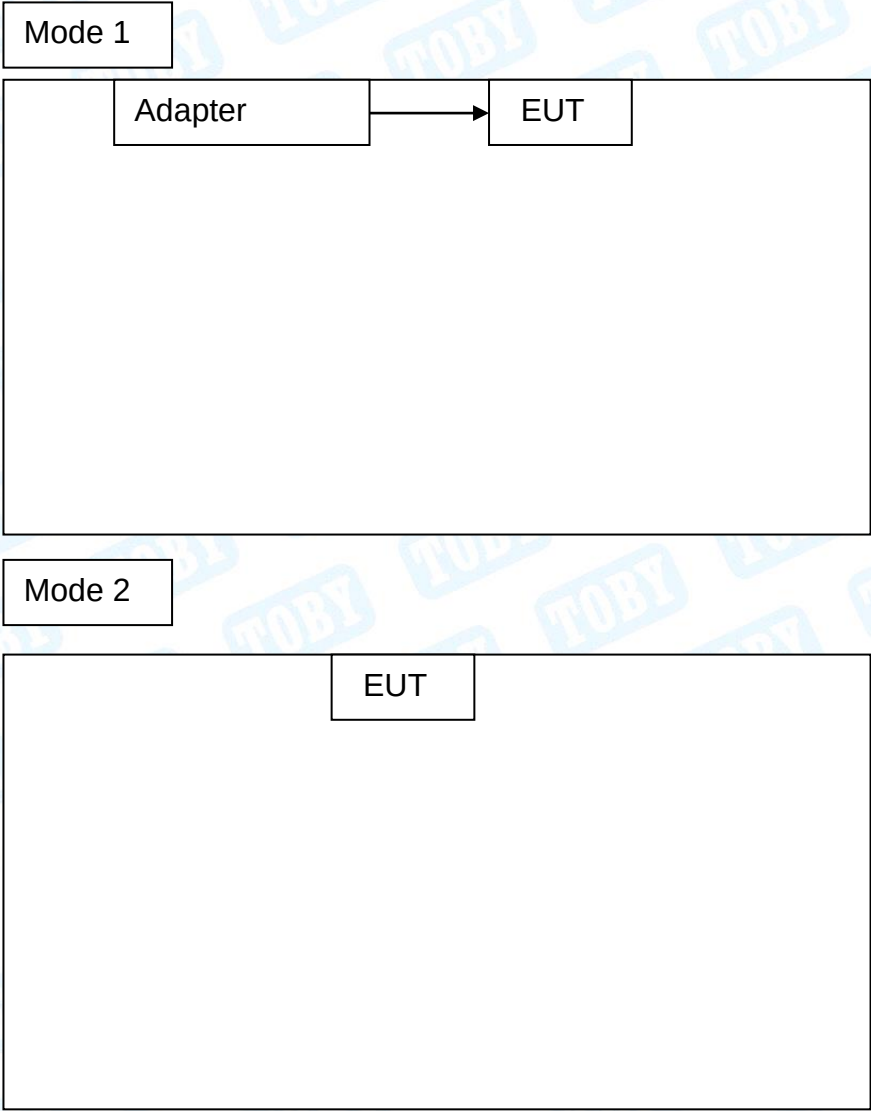
1.1. Client Information

Applicant	:	Shen Zhen Woody Vapes Technology Co., Ltd.
Address	:	Block 1, Shapuyangyong Industry Park, Songgang, Bao'an District, Shenzhen, Guangdong, China.
Manufacturer	:	Shen Zhen Woody Vapes Technology Co., Ltd.
Address	:	Block 1, Shapuyangyong Industry Park, Songgang, Bao'an District, Shenzhen, Guangdong, China.

1.2. General Description of EUT (Equipment Under Test)

EUT Name	:	DRAG MAX
Model(s)	:	DRAG MAX
Model Difference	:	N/A
Brand Name	:	VOOPOO
Power supply	:	DC 5V from USB Cable DC 3.7V from Li-ion battery

1.3. Block Diagram Showing The Configuration of System Tested



1.4. Description of Support Units

Name	Model	S/N	Manufacturer	Used “√”
Adapter	HW-050200C01	----	HUAWEI	√
Note: The adapter provided by the laboratory				

1.5. Description of Operating Mode

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Charging Mode
Mode 2	Normal Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

For EMI Test	
Final Test Mode	Description
Mode 1	Charging Mode
Mode 2	Normal Mode
For EMS Test	
Final Test Mode	Description
Mode 1	Charging Mode
Mode 2	Normal Mode

1.6. Performance Criterion

Criterion A: The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

Criterion B: After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended.

Criterion C: Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions.

1.7. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test	Parameters	Expanded Uncertainty (U_{Lab})	Expanded Uncertainty (U_{Cispr})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	± 3.50 dB ± 3.10 dB	± 4.0 dB ± 3.6 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB	N/A
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.50 dB	± 5.2 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB	N/A
Mains Harmonic	Voltage	$\pm 3.11\%$	N/A
Voltage Fluctuations & Flicker	Voltage	$\pm 3.25\%$	N/A

1.8. Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A.

2. TEST Results Summary

EMISSION		
Description of test items	Standards	Results
Conducted disturbance at mains terminals	EN 61000-6-3:2007+A1:2011	N/A
Radiated Disturbance	EN 61000-6-3:2007+A1:2011	Pass
Harmonic current emissions	EN 61000-3-2: 2014	N/A
Voltage fluctuation and flicker	EN 61000-3-3: 2013	N/A
IMMUNITY		
Description of test items	Standards	Results
Electrostatic Discharge (ESD)	EN 61000-4-2: 2009	Pass
Radio-frequency, Continuous radiated disturbance	EN 61000-4-3: 2006+A1: 2008 +A2:2010	Pass
EFT/B Immunity	EN 61000-4-4: 2012	N/A
Surge Immunity	EN 61000-4-5: 2014	N/A
Conducted RF Immunity	EN 61000-4-6: 2014	N/A
Power frequency magnetic field	EN 61000-4-8: 2010	N/A
Voltage dips, >95% reduction	EN 61000-4-11: 2004	N/A
Voltage dips, 30% reduction		
Voltage interruptions		
Note: N/A is an abbreviation for Not Applicable.		

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
Harmonic Current	CTS4	CI	4.24.0
Voltage Fluctuation and Flicker	CTS4	CI	4.24.0
Conducted Immunity	IEC/EN 61000-6-4 Application	FRANKONIA	1.1.1
Electrical Fast Transient	lec.control	Nemtest	5.1.1.0
Surge	lec.control	Nemtest	5.1.1.0
Voltage Dip and Interruption	lec.control	Nemtest	5.1.1.0

4. Test Equipment Used

Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Jul. 06, 2020	Jul. 05, 2021
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 01, 2020	Feb.28, 2022
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 01, 2020	Feb.28, 2022
Pre-amplifier	HP	11909A	185903	Mar. 01, 2020	Feb.28, 2021
Pre-amplifier	HP	8449B	3008A00849	Mar. 01, 2020	Feb.28, 2021
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 01, 2020	Feb.28, 2021
Signal Generator	Rohde & Schwarz	SML03	IKW682-054	Mar. 01, 2020	Feb.28, 2021
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Discharge Immunity Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
ESD Tester	TESEQ	NSG437	304	Jul. 07, 2020	Jul. 06, 2021
Radiated Immunity Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Vector Signal Generator	Agilent	E4438C	US44271917	Jul. 07, 2020	Jul. 06, 2021
Power meter	Agilent	E4419B	GB40202122	Jul. 07, 2020	Jul. 06, 2021
Power Sensor	Agilent	E9300A	MY41496625	Jul. 07, 2020	Jul. 06, 2021
Power Sensor	Agilent	E9300A	MY41496628	Jul. 07, 2020	Jul. 06, 2021
RF power Amplifier	OPHIR	5225R	1045	Jul. 07, 2020	Jul. 06, 2021
RF power Amplifier	OPHIR	5273R	1018	Jul. 07, 2020	Jul. 06, 2021
Antenna	SCHWARZBECK	STLP9128E-special	STLP9128E-s#139	Jul. 07, 2020	Jul. 06, 2021
Antenna	SCHWARZBECK	STLP 9149	STLP 9149 #456	Jul. 07, 2020	Jul. 06, 2021

5. Radiated Emission Test

5.1. Test Standard and Limit

5.1.1. Test Standard

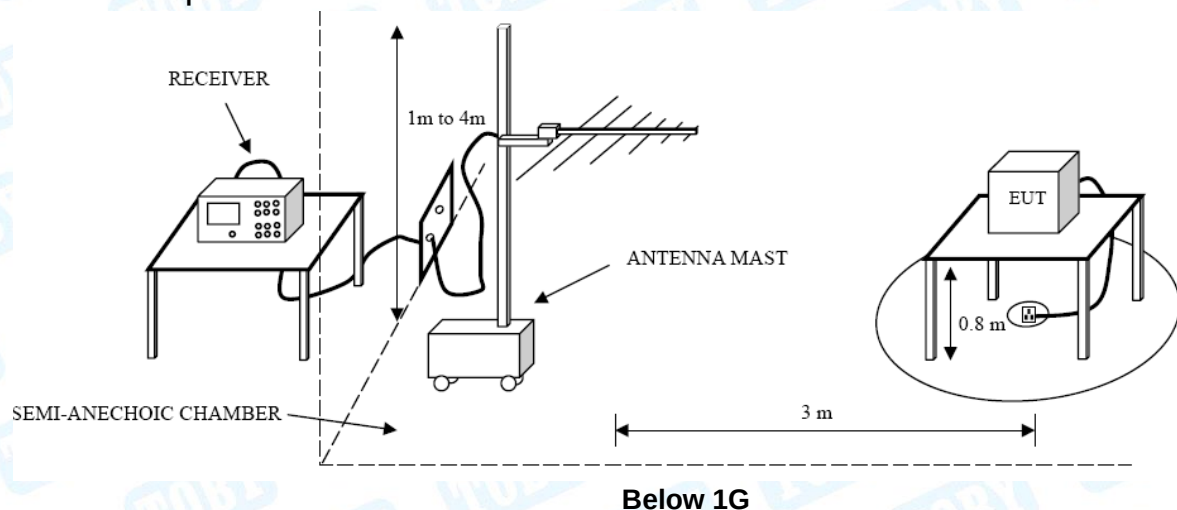
EN 61000-6-3:2007+A1:2011

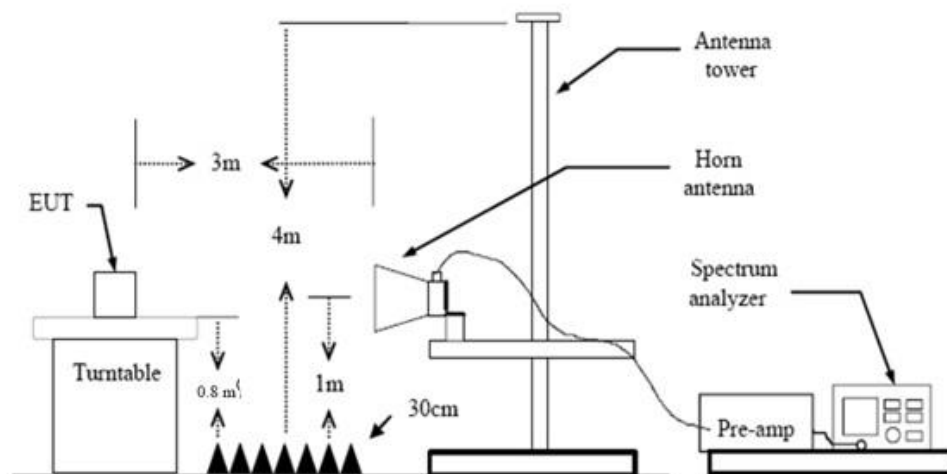
5.1.2. Test Limit

Radiated Disturbance Test Limit

Radiated Disturbance Test Limit-Below 1G		
Frequency (MHz)	Limit (dBμV/m)	
	Quasi-peak Level	
30~230	40	
230~1000	47	
Remark: 1. The lower limit shall apply at the transition frequency. 2. The test distance is 3m.		
Radiated Disturbance Test Limit-Above 1G		
Frequency (GHz)	Limit (dBμV/m)	
	Peak Level	Average Level
1~3	70	50
3~16	74	54
if the highest internal frequency of the EUT is less than 108 MHz, the measurement shall only be made up to 1GHz. if the highest internal frequency of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2GHz. if the highest internal frequency of the EUT is between 500MHz and 1GHz, the measurement shall only be made up to 5GHz. if the highest internal frequency of the EUT is above 1GHz, the measurement shall be made up to 6GHz.		

5.2. Test Setup





Above 1G

5.3. Test Procedure

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m. The table was rotated 360 degrees to determine the position of the highest radiation.

The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range.

If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

5.4. Deviation From Test Standard

No deviation

5.5. Test Data

Please refer to the Attachment A.

6. Electrostatic Discharge Immunity Test

6.1. Test Requirements

6.1.1. Test Standard

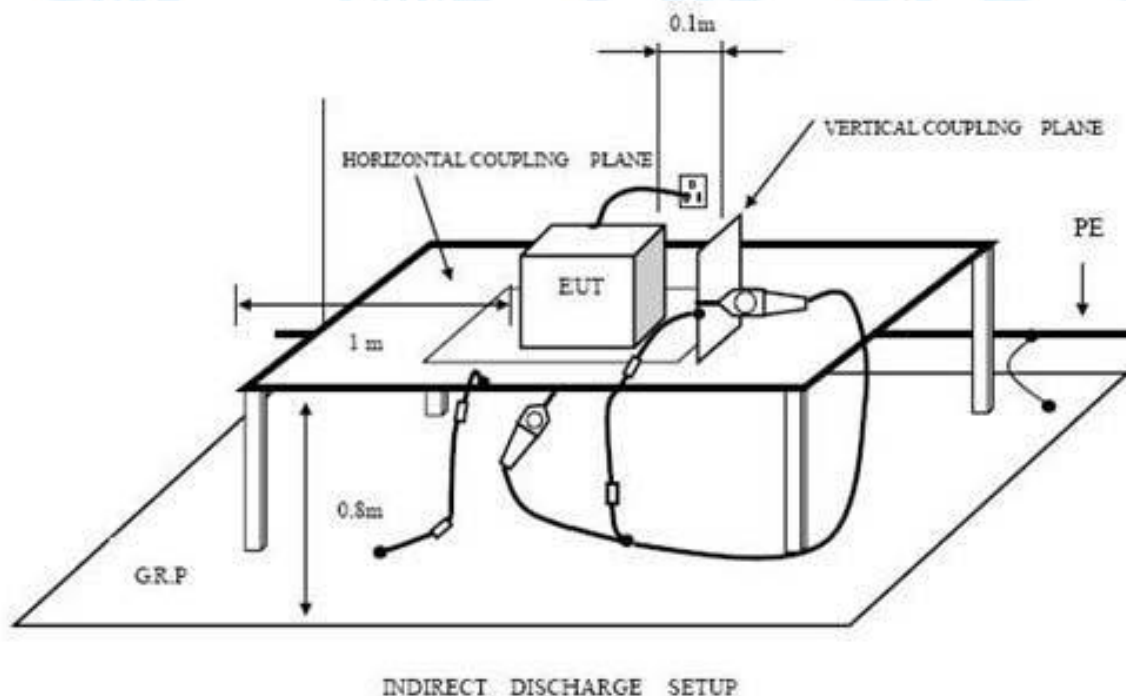
EN 61000-6-1: 2007 (EN 61000-4-2:2009)

6.1.2. Test Level

Discharge Impedance:	330 ohm/ 150pF
Discharge Voltage:	Air Discharge: 2kV/4kV/8kV(Direct) Contact Discharge: 2kV/4kV (Direct /Indirect)
Polarity:	Positive& Negative
Number of Discharge:	Air Discharge: min.20 times at each test point Contact Discharge: min.200 times in total
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

6.1.3. Performance criterion: B

6.2. Test Setup



6.3. Test Procedure

6.3.1. Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

6.3.2. Contact Discharge:

All the procedure shall be same as air discharge. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

6.3.3. Indirect discharge for horizontal coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

6.3.4. Indirect discharge for vertical coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

6.4. Deviation From Test Standard

No deviation

6.5. Test Data

Please refer to the Attachment B.

7. Radiated Electromagnetic Field Immunity Test

7.1. Test Requirements

7.1.1. Test Standard

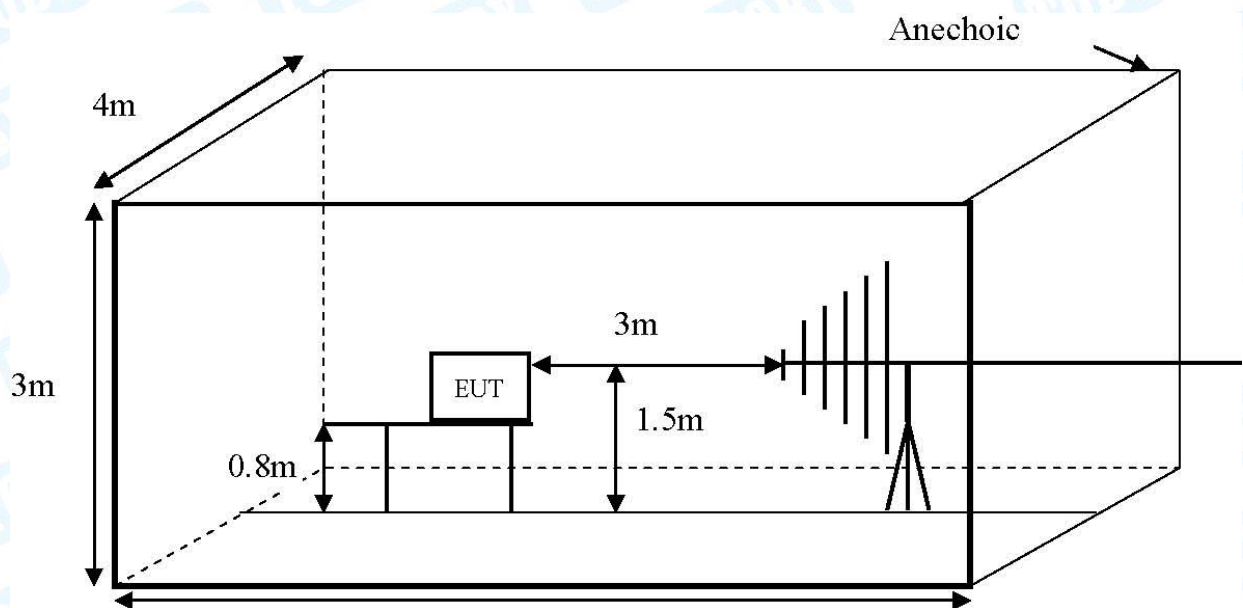
EN 61000-6-1: 2007 (EN 61000-4-3:2006+A1:2008+A2:2010)

7.1.2. Test Level

Test Specification		
80-1000MHz 3 V/m 80 % AM (1kHz)	1400-2000MHz 3 V/m 80 % AM (1kHz)	2000-2700MHz 1 V/m 80 % AM (1kHz)

7.1.3. Performance criterion: A

7.2. Test Setup



7.3. Test Procedure

The EUT are placed on a table, which is 0.8 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna, which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna is set on test. Each of the four sides of the EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a camera is used to monitor its screen.

All the scanning conditions are as following:

Condition of Test	Remark		
	3V/m	3V/m	1V/m
Fielded strength	3V/m	3V/m	1V/m
Radiated signal	Modulated	Modulated	Modulated
Scanning frequency	80-1000MHz	1400-2000MHz	2000-2700MHz
Dwell time	3 Sec.	3 Sec.	3 Sec.

7.4. Deviation From Test Standard

No deviation

7.5. Test Data

Please refer to the Attachment C.

8. Photographs - Constructional Details

Photo 1 Appearance of EUT



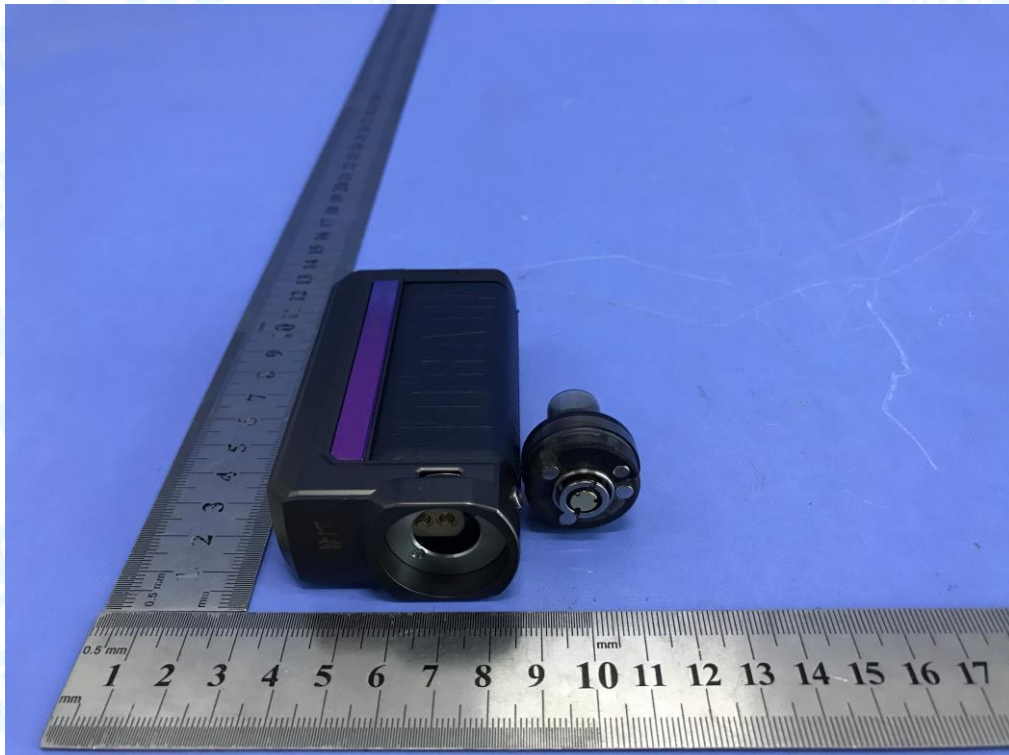
Photo 2 Appearance of EUT



Photo 3 Appearance of EUT

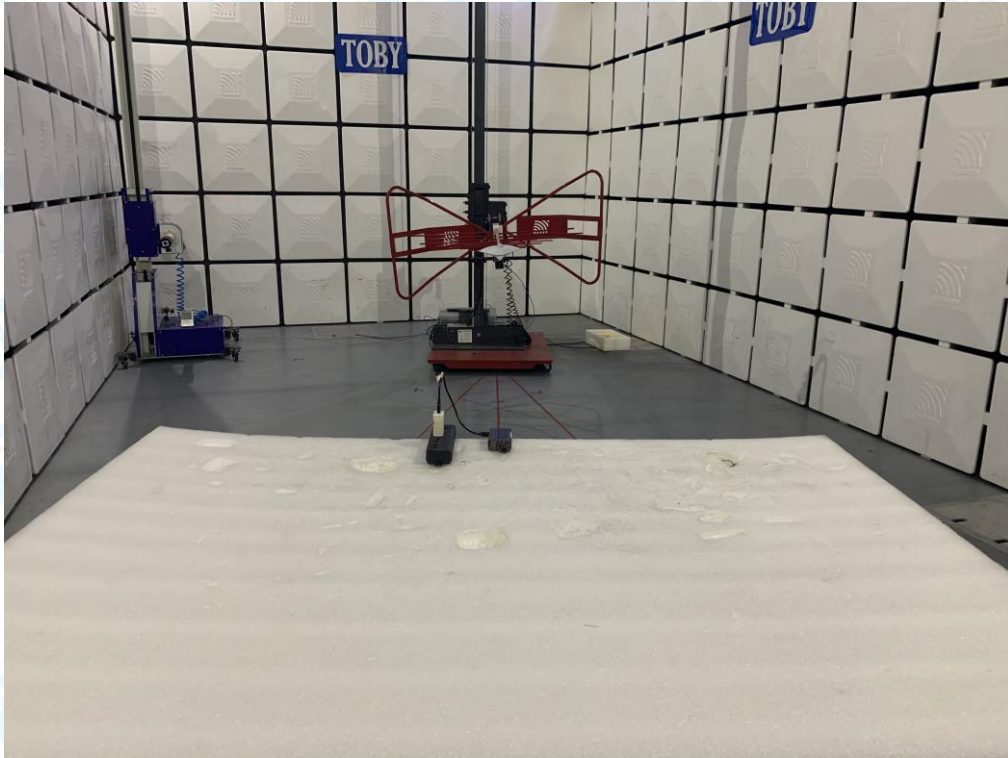


Photo 4 Appearance of EUT

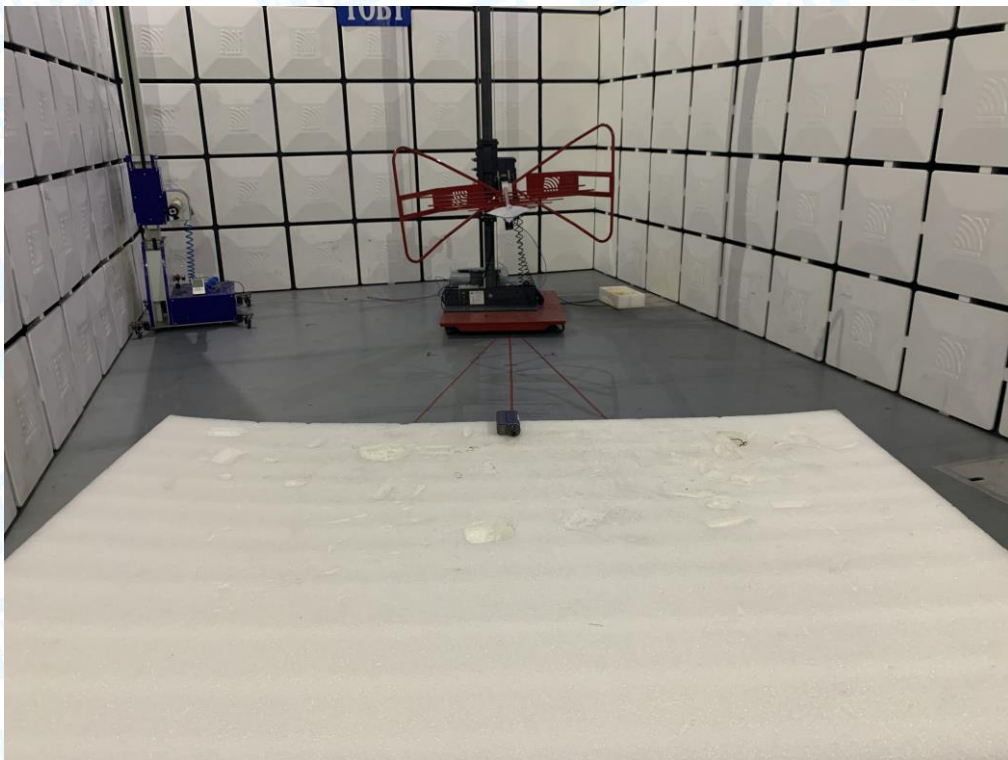


9. Photographs - Test Setup

Radiated Emission Test Setup



Radiated Emission Test Setup



Electrostatic discharge Test Setup



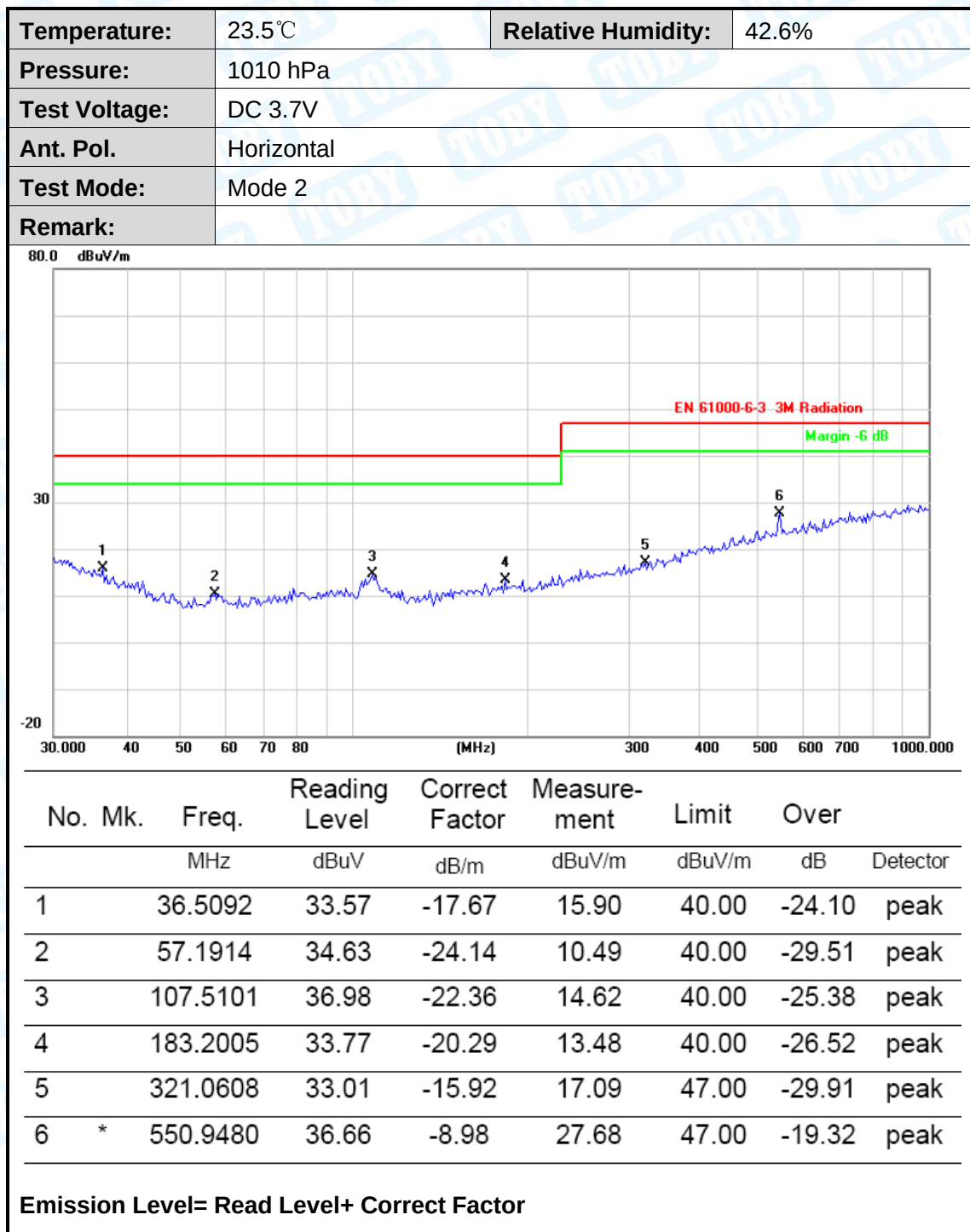
Electrostatic discharge Test Setup

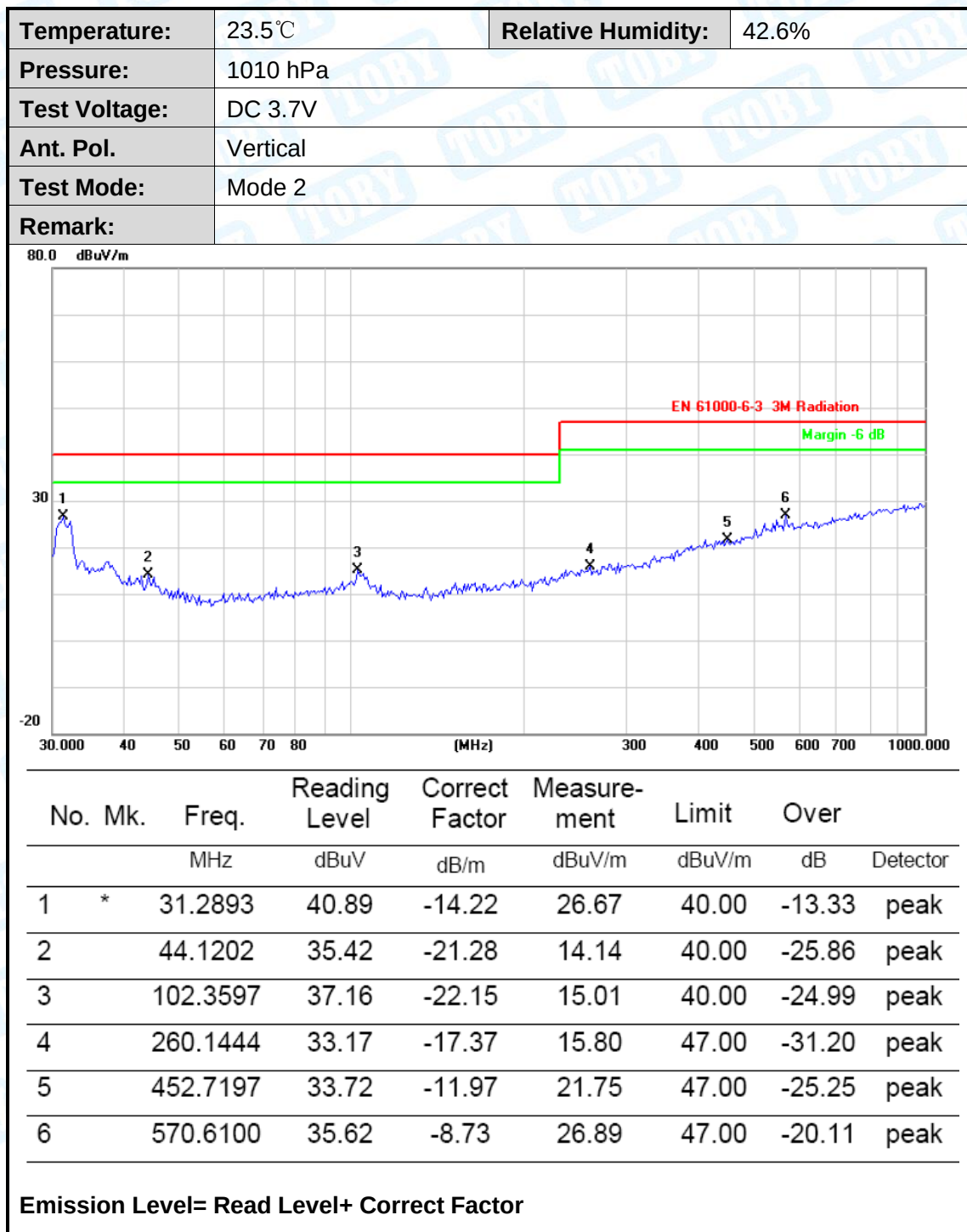


Attachment A--Radiated Emission Test Data (Below 1G)



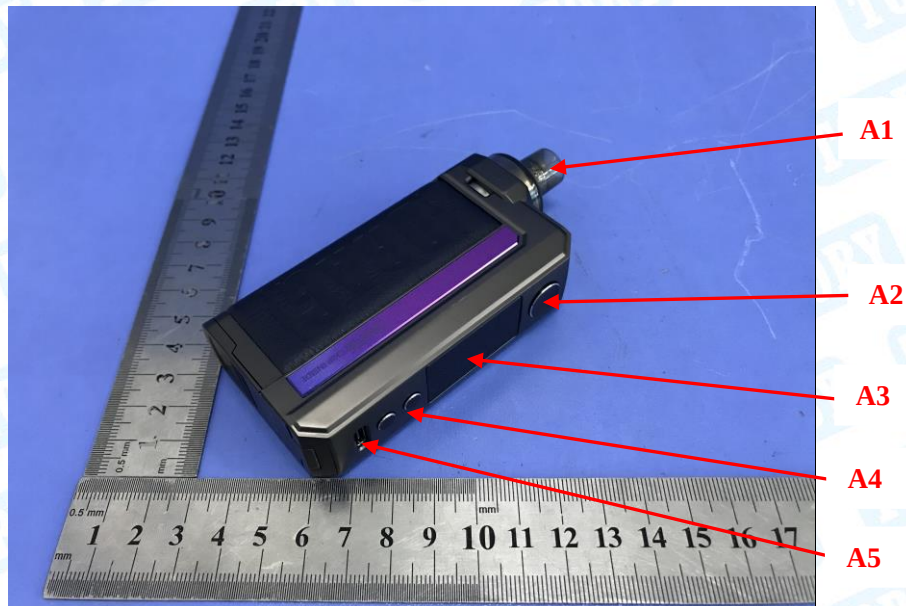






Attachment B--Electrostatic Discharge Test Data

Temperature : 22.3°C Humidity : 42%			
Power supply : DC 5V/3.7V Test Mode : Mode 1/2			
Required Performance Criteria: B			
Air Discharge: $\pm 2/\pm 4/\pm 8$ kV Contact Discharge: $\pm 2/\pm 4$ kV			
Location	Test Level (kV)	Judgment	Result
A1	$\pm 2\text{kV} \pm 4\text{kV} \pm 8\text{kV}$	A	PASS
A2		A	
A3		A	
A4		A	
A5		A	
HCP	$\pm 4\text{kV}$	A	
VCP	$\pm 4\text{kV}$	A	

Test Location Photos**Note:**

- 1) Criteria A: There was no change operated with initial operating during the test.
- 2) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 3) Criteria C: The system shut down during the test.

Attachment C--RF Field Strength Susceptibility Test Data

Temperature : 23.3°C

Humidity : 44%

Power supply : DC5V/3.7V

Test Mode : Mode 1/2

Required Performance Criteria: A

Position	Frequency Range 1		Frequency Range 2		Frequency Range 3		Result
	80~1000MHz		1400~2000MHz		2000~2700MHz		
	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	
Front	A	A	A	A	A	A	PASS
Right	A	A	A	A	A	A	
Rear	A	A	A	A	A	A	
Left	A	A	A	A	A	A	

Remark:

- 1) Criteria A: There was no change operated with initial operating during the test.
- 2) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 3) Criteria C: The system shut down during the test.

-----END OF REPORT-----



Shenzhen Toby Technology CO., Ltd.

1A/F, Bldg.6 .Yusheng Industrial Zone, The National Road No.107

Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong

Tel: 0755-26509301 Fax: 0755-26509195 www.tobytab.cn



CERTIFICATE OF CONFORMITY

Certificate No.: TB200826346

Applicant : Shen Zhen Woody Vapes Technology Co., Ltd.
Address : Block 1, Shapuyangyong Industry Park, Songgang, Bao'an District,
Shenzhen, Guangdong, China.
Manufacturer : Shen Zhen Woody Vapes Technology Co., Ltd.
Address : Block 1, Shapuyangyong Industry Park, Songgang, Bao'an District,
Shenzhen, Guangdong, China.
Product : DRAG MAX
Brand Name : VOOPOO
Model(s) : DRAG MAX

Test Standard(s):

EN 61000-6-3: 2007+A1: 2011;
EN 61000-6-1: 2007.

The EUT described above has been tested by us with the listed standards according to the Council Directive 2014/30/EU relating to electromagnetic compatibility, and found in compliance with all essential requirements of the Directive. It is possible to use CE marking to demonstrate the compliance with the EMC Directive.

The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report number: TB-EMC175027.




Justin Zhang
(Manager)
Aug. 24, 2020



FCC Part 15B Test Report

Report No. : TB-FCC175028
Applicant : Shen Zhen Woody Vapes Technology Co., Ltd.
Equipment Under Test (EUT)
EUT Name : DRAG MAX
Model No. : DRAG MAX
Series Model No. : N/A
Brand Name : VOOPOO
Receipt Date : 2020-08-20
Test Date : 2020-08-21 to 2020-08-24
Issue Date : 2020-08-24
Standards : FCC 47 CFR Part 15 Subpart B
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above
The EUT technically complies with the FCC requirements

Test/Witness Engineer :

Rebecca

Rebecca

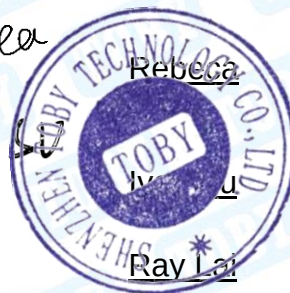
Engineer Supervisor :

Wan

Engineer Manager :

Ray Lai

Ray Lai



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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Revision History

Report No.	Version	Description	Issued Date
TB-FCC175028	Rev.01	Initial issue of report	2020-08-24

1. General Information

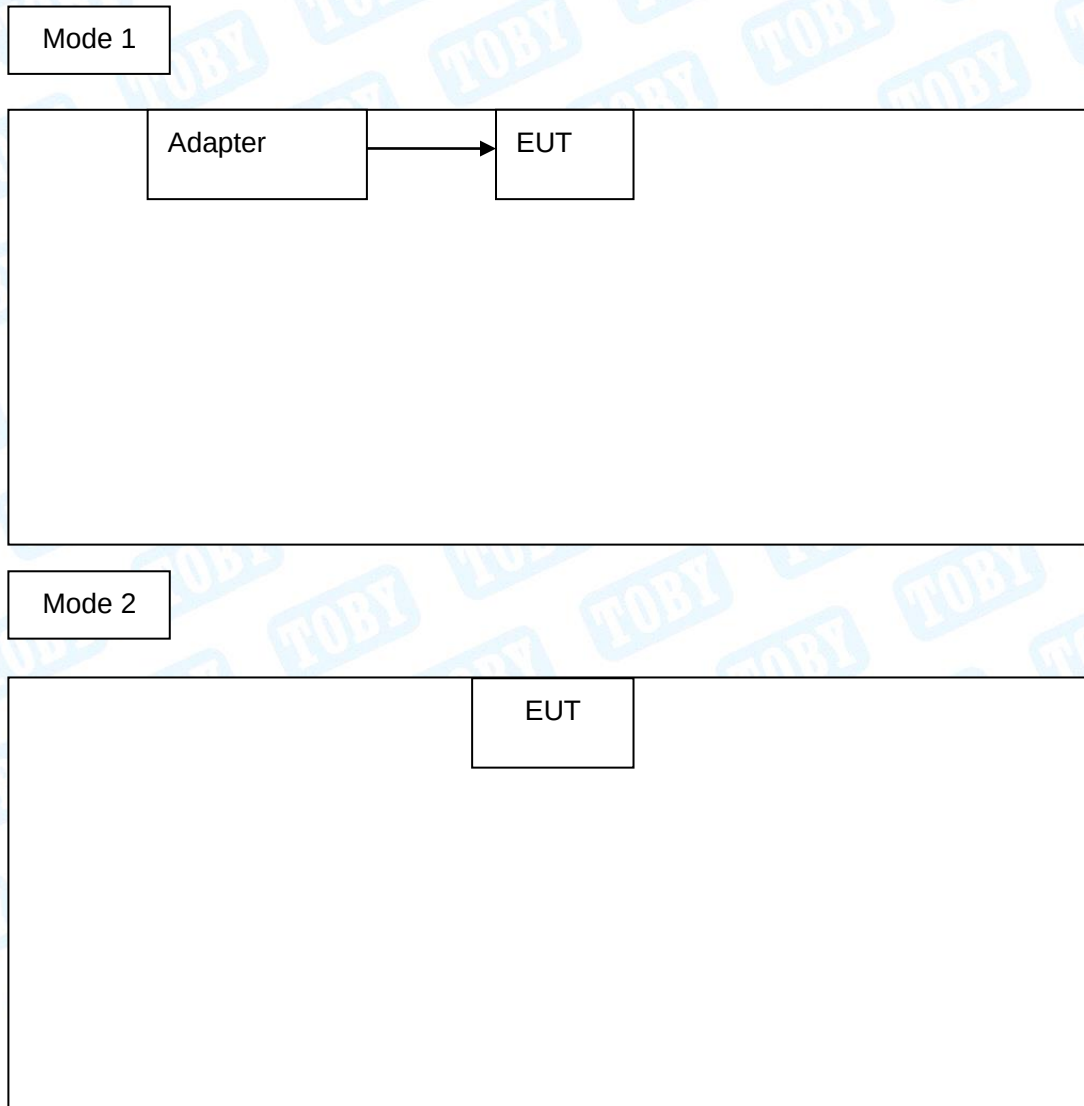
1.1 Client Information

Applicant	:	Shen Zhen Woody Vapes Technology Co., Ltd.
Address	:	Block 1, Shapuyangyong Industry Park, Songgang, Bao'an District, Shenzhen, Guangdong, China.
Manufacturer	:	Shen Zhen Woody Vapes Technology Co., Ltd.
Address	:	Block 1, Shapuyangyong Industry Park, Songgang, Bao'an District, Shenzhen, Guangdong, China.

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	DRAG MAX
Model(s)	:	DRAG MAX
Model Difference	:	N/A
Brand Name	:	VOOPOO
Power Supply	:	DC 5V from USB Cable DC 3.7V from Li-ion battery
Equipment	:	☐ Class A ☒ Class B
Class A Equipment: the Equipment is not intended primarily for use in a residential environment.		
Class B Equipment: the Equipment is intended primarily for use in a residential environment.		

1.3 Block Diagram Showing The Configuration of System Tested



1.4 Description of Support Units

Name	Model	S/N	Manufacturer	Used “√”
Adapter	HW-050200C01	----	HUAWEI	√
Note: The adapter provided by the laboratory				

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test	
Final Test Mode	Description
Mode 1	/
For Radiated Test	
Final Test Mode	Description
Mode 1	Charging Mode
Mode 2	Normal Mode

1.6 Test standards

The objective is to determine compliance with FCC Part 15, Subpart B, and section 15.107, 15.109 rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.7 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A.

1.8 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test	Parameters	Expanded Uncertainty (U_{Lab})	Expanded Uncertainty (U_{Cispr})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	± 3.50 dB ± 3.10 dB	± 4.0 dB ± 3.6 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.50 dB	N/A
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.40 dB	± 5.2 dB

2. Test Summary

Test Items	Test Requirement	Test Method	Result
Conducted Emission	FCC 47 CFR Part 15 Section 15.107	ANSI C63.4-2014	N/A
Radiated Emission	FCC 47 CFR Part 15 Section 15.109	ANSI C63.4-2014	Pass
Note: N/A is an abbreviation for Not Applicable.			

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE

4. Test Equipment Used

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 06, 2020	Jul. 05, 2021
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 06, 2020	Jul. 05, 2021
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 06, 2020	Jul. 05, 2021
LISN	Rohde & Schwarz	ENV216	101131	Jul. 06, 2020	Jul. 05, 2021
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Jul. 06, 2020	Jul. 05, 2021
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 01, 2020	Feb. 28, 2022
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 01, 2020	Feb. 28, 2022
Pre-amplifier	HP	11909A	185903	Mar. 01, 2020	Feb. 28, 2021
Pre-amplifier	HP	8449B	3008A00849	Mar. 01, 2020	Feb. 28, 2021
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 01, 2020	Feb. 28, 2021
Signal Generator	Rohde & Schwarz	SML03	IKW682-054	Mar. 01, 2020	Feb. 28, 2021
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

5. Label Requirements&Statement Requirements

☒ Class B

Label Requirements

Class B digital device subject to certification by the FCC shall carry a warning label which includes the following statement:

***** WARNING *****

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

☐ Class A

Statement Requirements

The operator's manual for a Class A digital device shall contain the following statements or their equivalent:

***** WARNING *****

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment This equipment generates, uses, and can radiate radio frequency energy and, if not installed and uses in accordance with the instruction manual, may cause harmful interference to radio communications Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equivalent.

If the EUT was tested with special shielded cables the operator's manual for such product shall also contain the following statements or their equivalent:

Shielded interface cables and/or AC power cord, if any, must be used in order to comply with the emission limits.

6. Conducted Emission Test

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.107

6.1.2. Test Limit

Conducted Emission Test Limit (Class A)

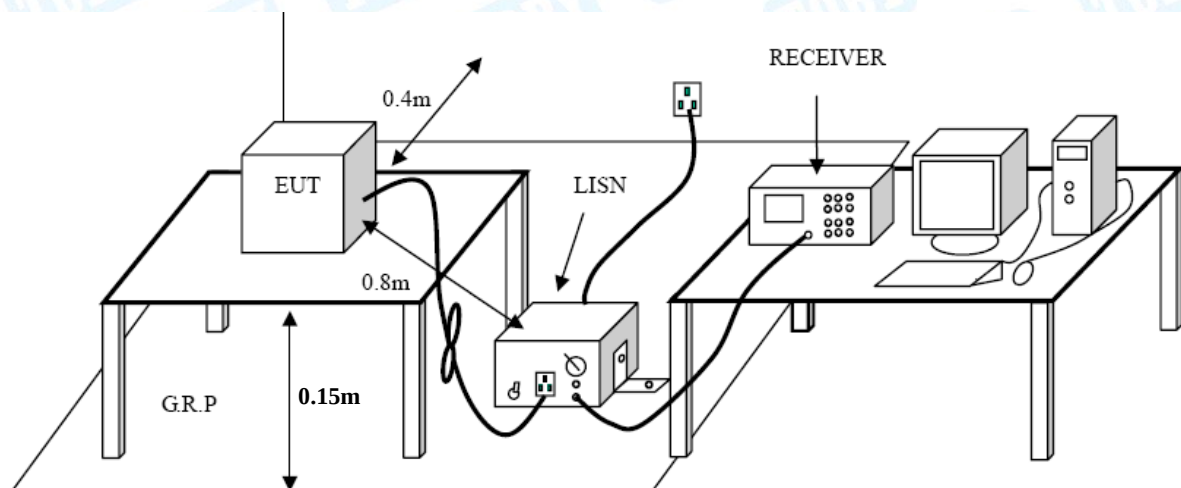
Frequency (MHz)	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
0.15~0.50	79	66
0.50~30	73	60

Conducted Emission Test Limit (Class B)

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
0.15~0.5	66 ~ 56 *	56 ~ 46 *
0.50~5	56	46
5~30	60	50

*decreasing linearly with logarithm of the frequency

6.2 Test Setup



6.3 Test Procedure

The EUT was placed 0.15 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

The cables shall be insulated (by up to 15 cm) from the horizontal ground reference plane, and shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

6.4 Deviation From Test Standard

No deviation

6.5 Test Data

This test is not applicable.

7. Radiated Emission Test

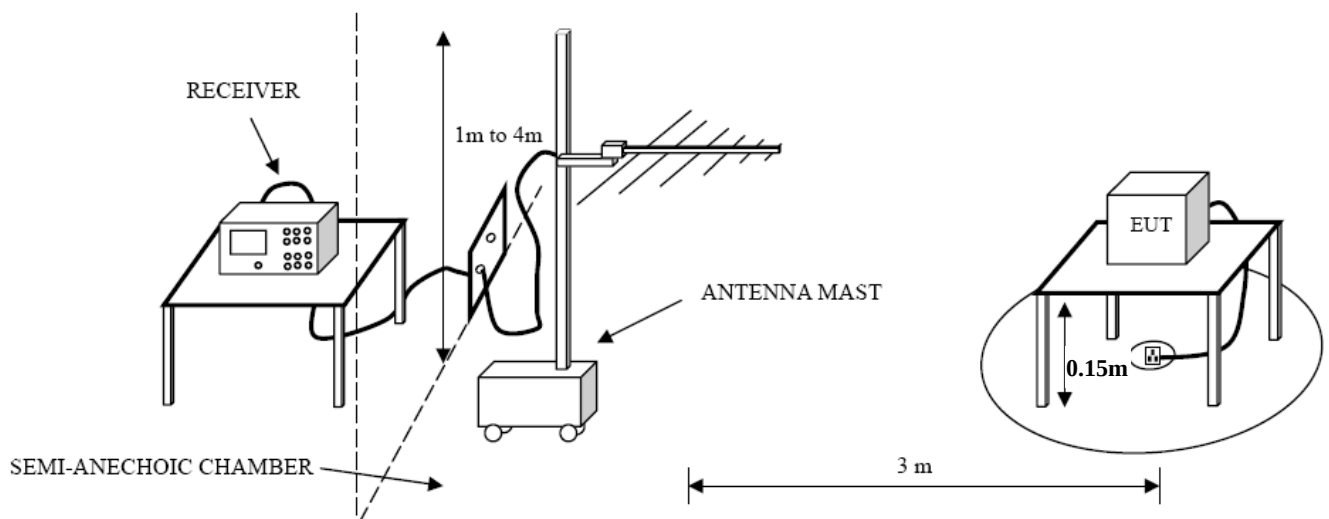
7.1 Test Standard and Limit

7.1.1 Test Standard
FCC Part 15.109

7.1.2 Test Limit

Radiated Emission Test Limit (Class A)	
Frequency MHz	Field Strengths Limits dB(μ V/m)
30 ~ 88	49.0
88 ~ 216	53.5
216 ~ 960	56.4
960 ~ 1000	59.5
Radiated Emission Test Limit (Class B)	
Frequency MHz	Field Strengths Limits dB(μ V/m)
30 ~ 88	40.0
88 ~ 216	43.5
216 ~ 960	46.0
960 ~ 1000	54.0
* The lower limit shall apply at the transition frequency.	
* The test distance is 3m.	

7.2 Test Setup



7.3 Test Procedure

The EUT was placed on the top of a rotating table which is 0.15 meters above the ground. EUT is set 3.0 meters away from the receiving antenna that mounted on a antenna tower. The table was rotated 360 degrees to determine the position of the highest radiation, the antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

Measurements shall be made with a quasi-peak measuring receiver in the frequency range 30MHz to 1000MHz. If the Peak Mode measured value compliance with and lower than quasi-peak mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

7.4 Deviation From Test Standard

No deviation

7.5 Test Data

Please refer to the Attachment A.

8. Photographs - Constructional Details

Photo 1 Appearance of EUT



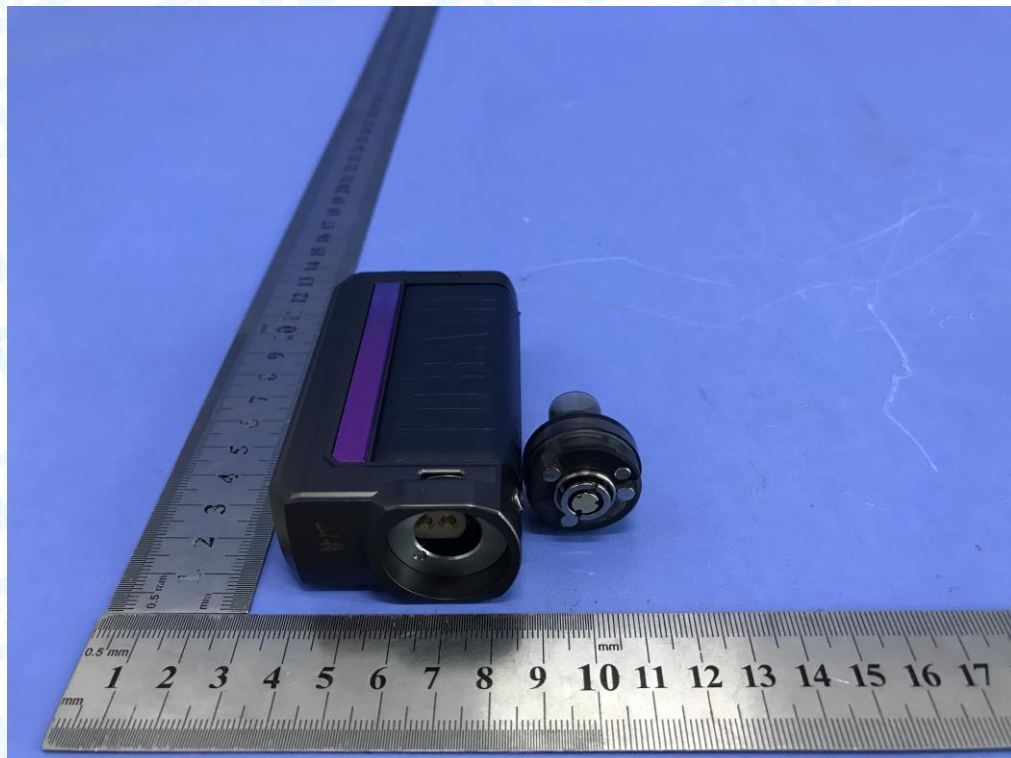
Photo 2 Appearance of EUT



Photo 3 Appearance of EUT

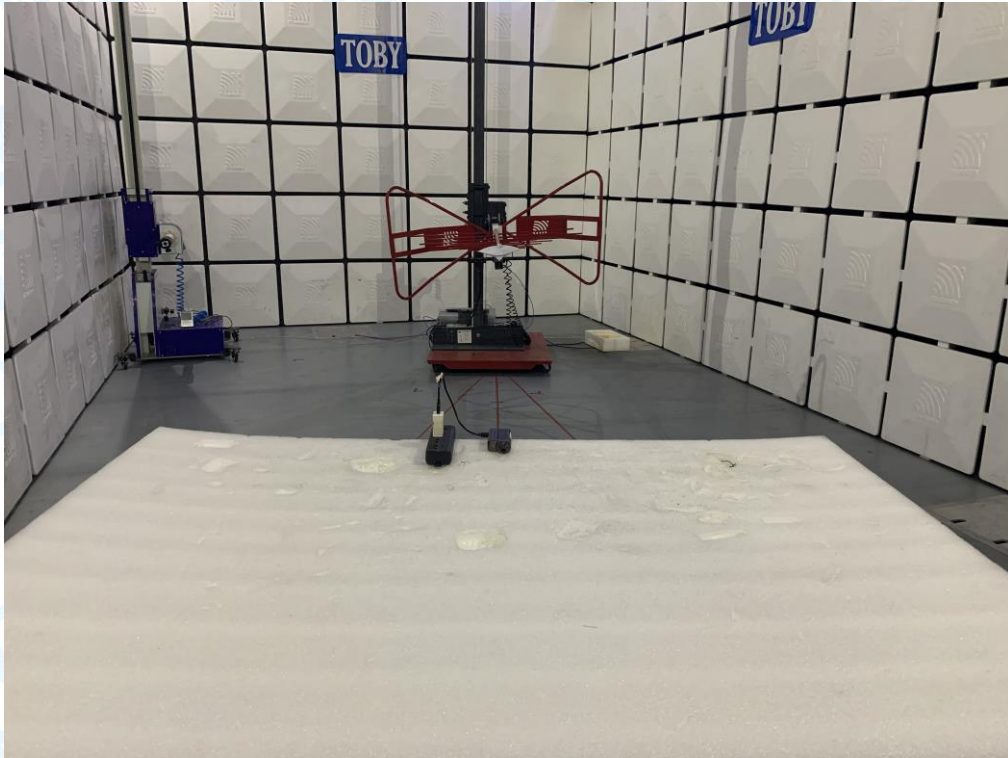


Photo 4 Appearance of EUT

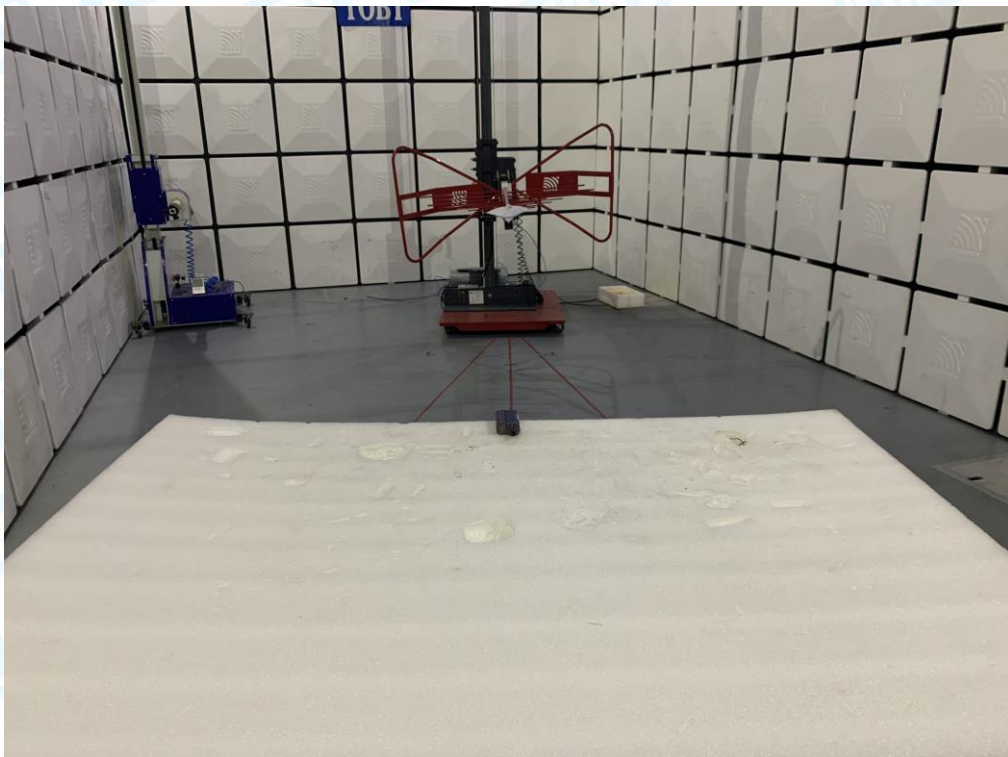


9. Photographs - Test Setup

Radiated Emission Test Setup

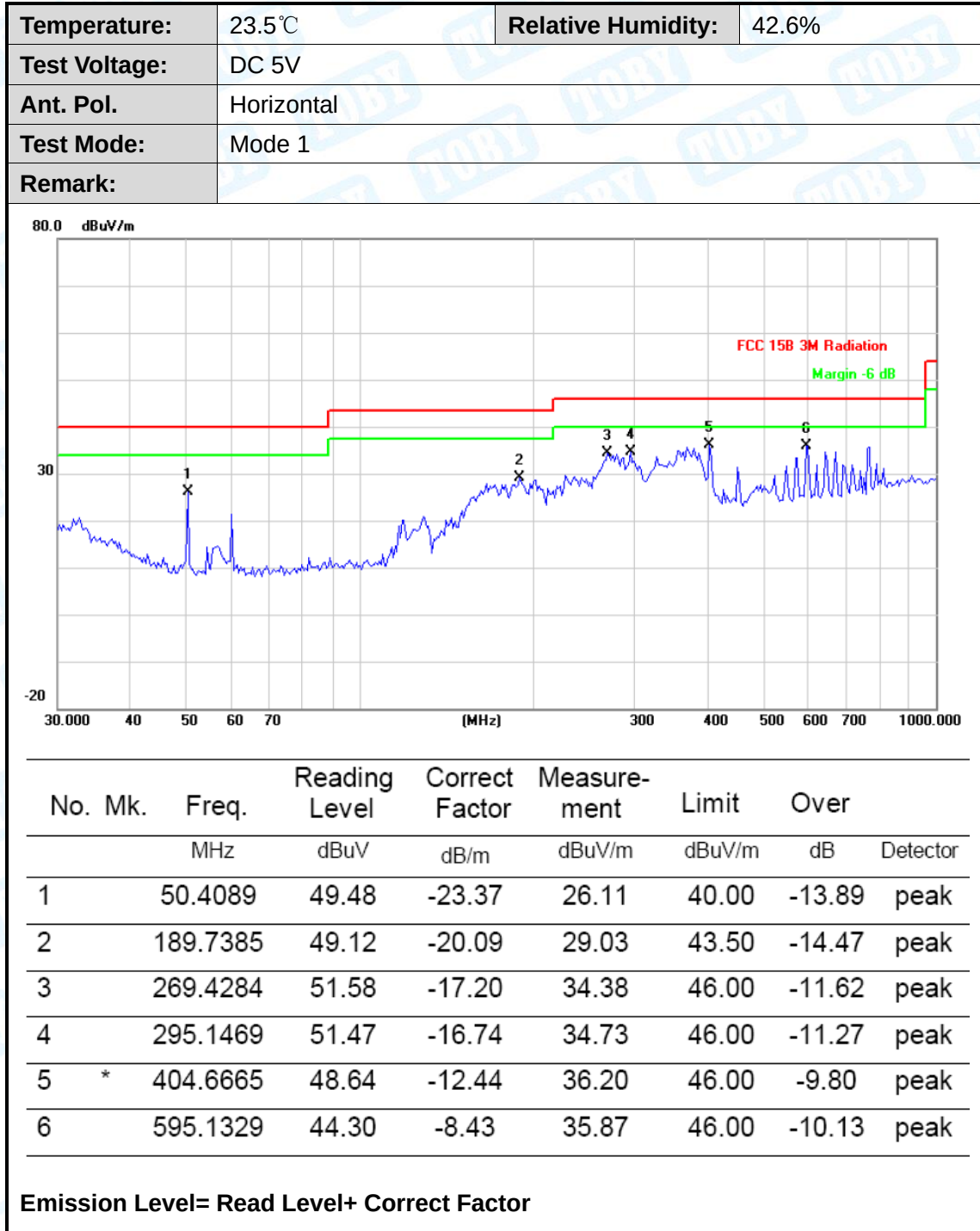


Radiated Emission Test Setup

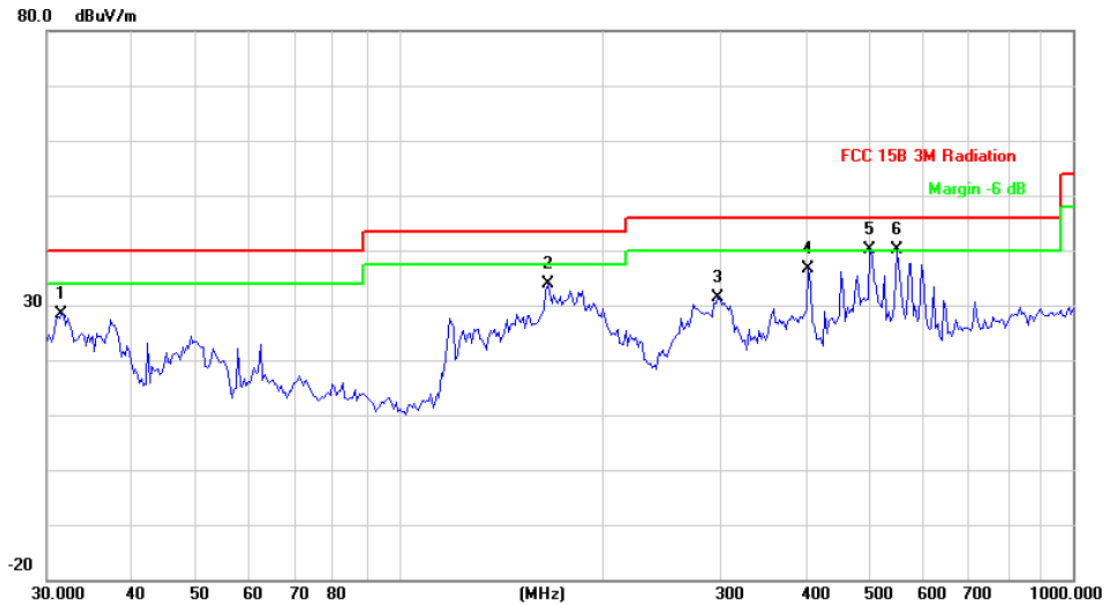


Attachment A--Radiated Emission Test Data

----Below 1G



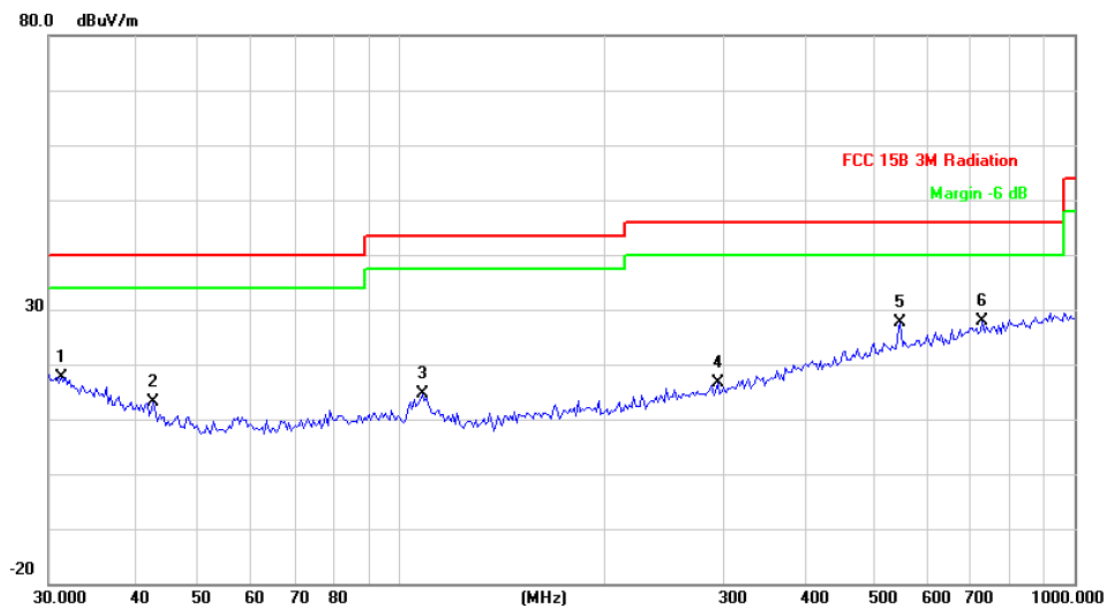
Temperature:	23.5°C	Relative Humidity:	42.6%
Test Voltage:	DC 5V		
Ant. Pol.	Vertical		
Test Mode:	Mode 1		
Remark:			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		31.5095	42.74	-14.38	28.36	40.00	-11.64	peak
2		166.0680	54.66	-20.85	33.81	43.50	-9.69	peak
3		297.2241	47.98	-16.69	31.29	46.00	-14.71	peak
4		404.6665	49.02	-12.44	36.58	46.00	-9.42	peak
5	!	499.4247	50.69	-10.53	40.16	46.00	-5.84	peak
6	*	547.0977	49.27	-9.08	40.19	46.00	-5.81	peak

Emission Level= Read Level+ Correct Factor

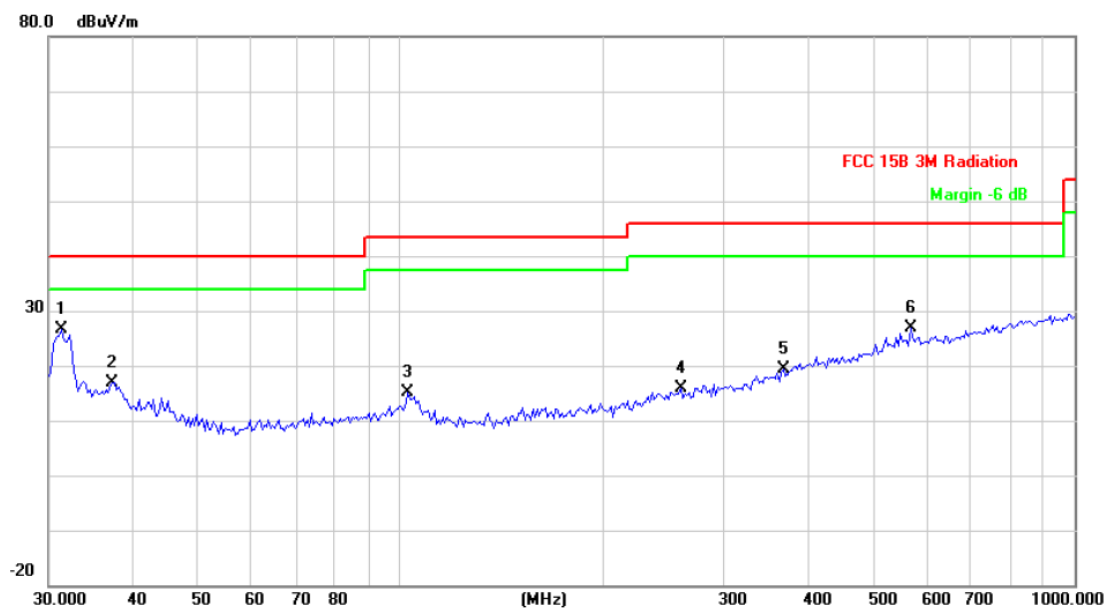
Temperature:	23.5℃	Relative Humidity:	42.6%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	Mode 2		
Remark:			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		31.2893	31.93	-14.22	17.71	40.00	-22.29 peak
2		42.8997	33.92	-20.69	13.23	40.00	-26.77 peak
3		107.5100	36.98	-22.36	14.62	43.50	-28.88 peak
4		295.1469	33.36	-16.74	16.62	46.00	-29.38 peak
5		550.9479	36.66	-8.98	27.68	46.00	-18.32 peak
6	*	729.3582	34.53	-6.74	27.79	46.00	-18.21 peak

Emission Level= Read Level+ Correct Factor

Temperature:	23.5°C	Relative Humidity:	42.6%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	Mode 2		
Remark:			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	31.2893	40.89	-14.22	26.67	40.00	-13.33	peak
2		37.2854	34.90	-18.04	16.86	40.00	-23.14	peak
3		102.3597	37.16	-22.15	15.01	43.50	-28.49	peak
4		260.1444	33.17	-17.37	15.80	46.00	-30.20	peak
5		369.4045	33.26	-13.98	19.28	46.00	-26.72	peak
6		570.6100	35.62	-8.73	26.89	46.00	-19.11	peak

Emission Level= Read Level+ Correct Factor

-----END OF REPORT-----



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Applicant : Shen Zhen Woody Vapes Technology Co., Ltd.

Address : Block 1, Shapuyangyong Industry Park, Songgang, Bao'an District, Shenzhen, Guangdong, China.

(The Submitted Sample Said To Be)

Sample Name : DRAG MAX

Model/Style No. : DRAG MAX

Trade Mark : VOOPOO

Test Period : From Aug. 20, 2020 to Sep. 03, 2020

Tests conducted : As requested by the applicant, for details refer to next page(s).

Executive Summary:

No.	TESTED SAMPLE	STANDARD / REQUIREMENT	CONCLUSION
1	Tested material(s) of submitted sample(s)	Pb, Cd, Hg, CrVI, PBBs and PBDEs - Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 and its subsequent amendments	PASS
2	Tested material(s) of submitted sample(s)	Phthalates - Commission Delegated Directive (EU) 2015/863 of 31 March 2015	PASS

Signed for and on behalf of
Compliance Control Institute (Guangzhou) Co., Ltd.

Approved by: 

Shuo Fang/Technical Director

Compliance Control Institute (Guangzhou) Co., Ltd.

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TESTS CONDUCTED:

1, Pb, Cd, Hg, Cr(VI), PBBs and PBDEs

Test Method: IEC62321-3-1ⁿ: 2013, IEC62321-4: 2013+A1:2017, IEC62321-5: 2013, IEC62321-6:2015,
IEC62321-7-1ⁿ: 2015, IEC 62321-7-2ⁿ: 2017, analyzed by EDXRF & ICP-OES & GC-MS &UV-Vis..

Part No.	Part Description	Characteristic Elements	Results of EDXRF ⁽¹⁾	Results of Wet Chemical Testing (mg/kg) ⁽²⁾	Conclusion	Comments
1	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
2	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
3	White plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
4	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
5	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
6	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
7	Red plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
8	Bronze metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/

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Email: cs@ccilab.com.cn
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Part No.	Part Description	Characteristic Elements	Results of EDXRF ⁽¹⁾	Results of Wet Chemical Testing (mg/kg) ⁽²⁾	Conclusion	Comments
9	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
10	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
11	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
12	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
13	Green PCB	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
14	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
15	Silvery metal	Pb	X	18900 [#]	Pass	Copper alloy
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
16	Grey transparent plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/

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Part No.	Part Description	Characteristic Elements	Results of EDXRF ⁽¹⁾	Results of Wet Chemical Testing (mg/kg) ⁽²⁾	Conclusion	Comments
17	Grey semitransparent plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
18	Silvery magnet	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
19	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
20	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
21	Silvery metal	Pb	X	29820 [#]	Pass	Copper alloy
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
22	Golden metal	Pb	X	28420 [#]	Pass	Copper alloy
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
23	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
24	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/

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Part No.	Part Description	Characteristic Elements	Results of EDXRF ⁽¹⁾	Results of Wet Chemical Testing (mg/kg) ⁽²⁾	Conclusion	Comments
25	Black rubber	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
26	Black rubber	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
27	White non-woven	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
28	Black rubber	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
29	Gun metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
30	Transparent plastic with multicolor coating	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
31	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
32	Red synthetic with glue	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/

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33	Black foam with glue	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
34	Black plastic with glue	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
35	Silvery metal with black printing	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
36	Black transparent plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
37	Black metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
38	Black metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
39	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
40	Golden metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/

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41	Black double side adhesive	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
42	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
43	Gun metal with gold printing	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
44	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
45	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
46	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
47	Light grey plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
48	Light grey plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/

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49	Golden metal	Pb	X	37070 [#]	Pass	Copper alloy
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
50	Golden metal	Pb	X	25010 [#]	Pass	Copper alloy
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
51	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
52	Semitransparent rubber	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
53	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
54	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
55	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
56	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/

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57	Black soft plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
58	Black foam with glue	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
59	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
60	Black transparent plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
61	Black transparent glass	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
62	Silvery plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
63	White plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
64	Transparent plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/

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65	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
66	Silvery metal with black printing	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
67	Black plastic with white printing with copper foil	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
68	Black soft plastic with white printing	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
69	Blue soft plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
70	White soft plastic with black printing	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
71	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
72	Red soft plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/

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73	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
74	Golden metal	Pb	X	30005 [#]	Pass	Copper alloy
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
75	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
76	Bronze metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
77	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
78	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
79	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
80	Grey solid	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/

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81	Brown ceramic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
82	Green PCB with white printing	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
83	Black solid	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
84	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
85	Beige plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
86	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
87	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
88	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/

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89	White ceramic with black printing	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
90	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
91	Silvery/gold metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/
92	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
93	White plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
94	Black plastic	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/
95	Silvery/copper metal	Pb	X	/	Pass	Resubmitted sample
		Cd	BL	/		
		Hg	BL	/		
		Cr	BL	/		
		Br	NA	/		
96	Silvery metal	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	NA	/		/

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97	Green PCB with white printing	Pb	BL	/	Pass	/
		Cd	BL	/		/
		Hg	BL	/		/
		Cr	BL	/		/
		Br	BL	/		/

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Remark:

- (1) ① Results are obtained by EDXRF for primary screening, and further wet chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).
- ② OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.
- ③ The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	NA	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

Units and limits:

Restricted Substances	Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit	1000	100	1000	1000	1000	1000

- (2) ① mg/kg = ppm = 0.0001%, N.D. = Not Detected (Less than RL).

② Unit and RL (Reporting limit) in wet chemical test.

Restricted Substances	Pb	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RL	2	2	2	2	5	5

③ According to IEC 62321-7-1:2015, result on Cr(VI) for metal sample is shown as Positive/Negative.

Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

Storage condition and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

- (3) Items marked with "n" means they are not accredited by CNAS.

- (4) # = Per applicant's declaration, according to exemption list clause 6(c) Copper alloy containing up to 4% lead by weight, the tested material was exempted.



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2 Phthalates (DBP, BBP, DEHP, DIBP) content

Test Method: IEC 62321-8ⁿ 2017, analyzed by gas chromatographic- mass spectrometer (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS#	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	
RL (mg/kg)	30	30	30	30	
Part No.	Test Results (mg/kg)				Conclusion
3+4+5	ND	ND	ND	ND	
6+7+12	ND	ND	ND	ND	
13+16+17	ND	ND	ND	ND	
25+26+27	ND	ND	ND	ND	
28+30+32	ND	ND	ND	ND	
33+34+36	ND	ND	ND	ND	
39+41+42	ND	ND	ND	ND	
47+48+52	ND	ND	ND	ND	
55+57+58	ND	ND	ND	ND	
59+60+62	ND	ND	ND	ND	
63+64+65	ND	ND	ND	ND	
67+68+69	ND	ND	ND	ND	
70+72+75	ND	ND	ND	ND	
77+78+79	ND	ND	ND	ND	
82+84+85	ND	ND	ND	ND	
92+93	ND	ND	ND	ND	
94+97	ND	ND	ND	ND	

Remark:

1, mg/kg = milligram per kilogram (ppm)

2, RL = Reporting Limit

3, ND = Not Detected (Less than RL)

4, Items marked with "n" means they are not accredited by CNAS.

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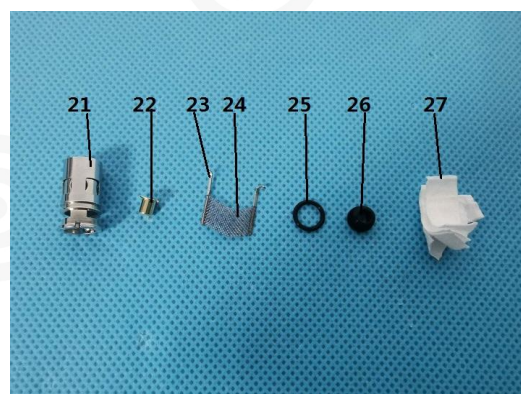
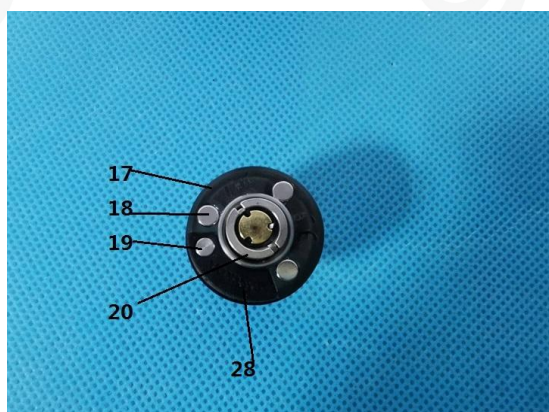
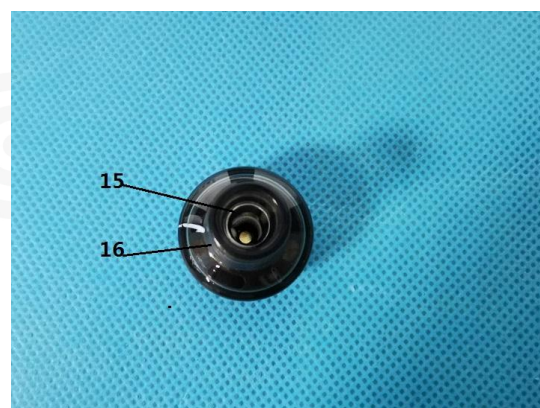
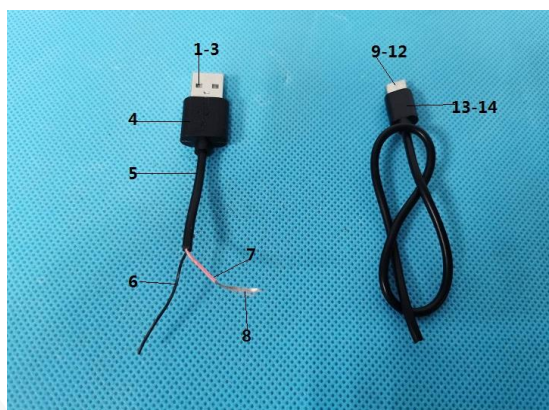
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Sample Photo



Tested Parts Photos



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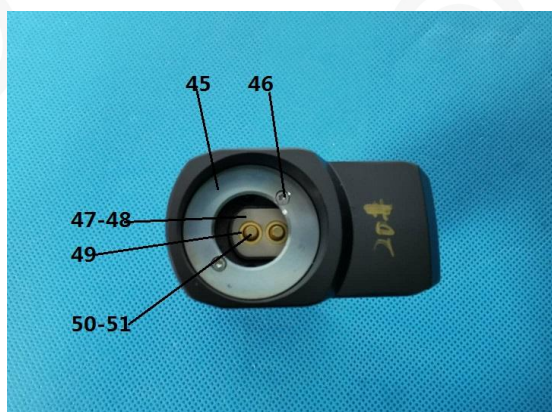
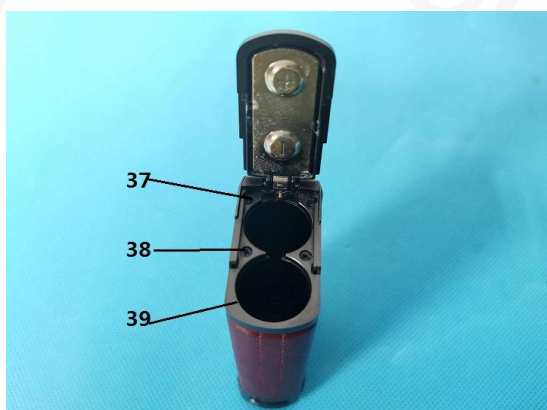
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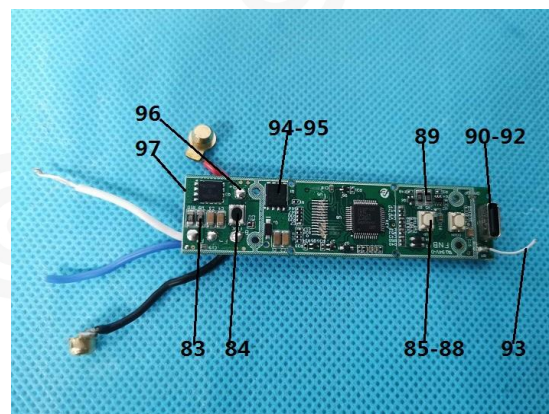
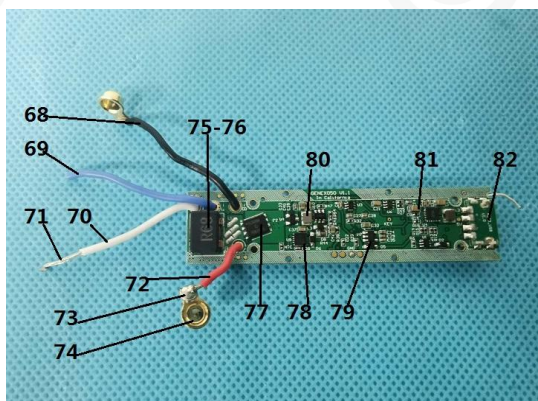
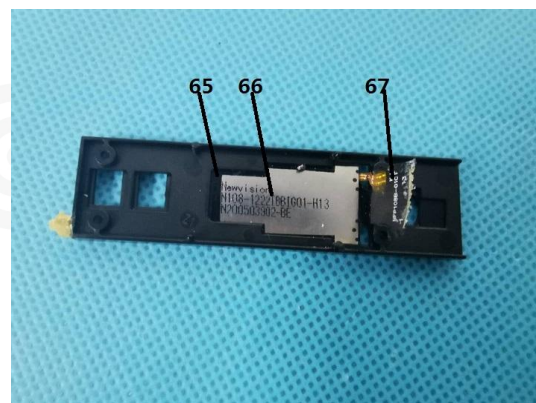
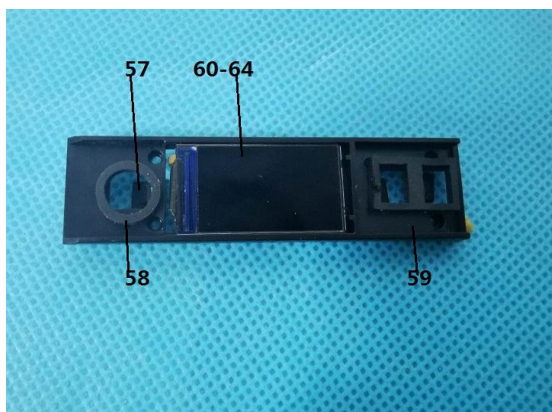
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Appendix

EXEMPTION LIST (ANNEX III TO RoHS DIRECTIVE)

- 1 Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
 - 1(a) For general lighting purposes < 30W: 2.5mg
 - 1(b) For general lighting purposes ≥ 30W and <50W: 3.5mg
 - 1(c) For general lighting purposes ≥ 50W and <150W: 5mg
 - 1(d) For general lighting purposes ≥ 150W: 15mg
 - 1(e) For general lighting purposes with circular or square structural shape and tube diameter ≤17mm: 7mg
 - 1(f) For special purposes: 5mg
- 2(a) Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):
 - 2(a)(1) Tri-band phosphor with normal lifetime and a tube diameter < 9mm (e.g. T2): 4mg
 - 2(a)(2) Tri-band phosphor with normal lifetime and a tube diameter ≥ 9mm and ≤ 17mm (e.g. T5): 3mg
 - 2(a)(3) Tri-band phosphor with normal lifetime and a tube diameter > 17mm and ≤ 28mm (e.g. T8): 3.5mg
 - 2(a)(4) Tri-band phosphor with normal lifetime and a tube diameter > 28mm (e.g. T12): 3.5mg
 - 2(a)(5) Tri-band phosphor with long lifetime (≥ 25000h): 5mg
- 2(b) Mercury in other fluorescent lamps not exceeding (per lamp):
 - 2(b)(3) Non-linear tri-band phosphor lamps with tube diameter > 17mm (e.g. T9): 15mg
 - 2(b)(4) Lamps for other general lighting and special purposes (e.g. induction lamps): 15mg
- 3 Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
 - 3(a) Short length (≤ 500mm): 3.5mg
 - 3(b) Medium length (> 500mm and ≤ 1500mm): 5mg
 - 3(c) Long length (> 1500mm): 13mg
- 4(a) Mercury in other low pressure discharge lamps (per lamp): 15mg
- 4(b) Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60:
 - 4(b)-I P ≤ 155W: 40mg
 - 4(b)-II 155W < P ≤ 405W: 40mg
 - 4(b)-III P > 405W: 40mg
- 4(c) Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):
 - 4(c)-I P ≤ 155W: 25mg
 - 4(c)-II 155W < P ≤ 405W: 30mg
 - 4(c)-III P > 405W: 40mg
- 4(e) Mercury in metal halide lamps (MH)
- 4(f) Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex
- 5(a) Lead in glass of cathode ray tubes
- 5(b) Lead in glass of fluorescent tubes not exceeding 0.2% by weight
- 6(a) Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight (Expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 6(a)-I Lead as an alloying element in steel for machining purposes containing up to 0.35 % lead by weight and in batch hot dip galvanised steel components containing up to 0.2 % lead by weight (Expires on 21 July 2021 for categories 1-7 and 10)
- 6(b) Lead as an alloying element in aluminium containing up to 0.4% lead by weight (Expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 6(b)-I Lead as an alloying element in aluminium containing up to 0.4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling (Expires on 21 July 2021 for categories 1-7 and 10.)
- 6(b)-II Lead as an alloying element in aluminium for machining purposes with a lead content up to 0.4 % by weight (Expires on 18 May 2021 for categories 1-7 and 10.)
- 6(c) Copper alloy containing up to 4% lead by weight. (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 7(a) Lead in high melting temperature type solders (i.e. lead based alloys containing 85% by weight or more lead) (Applies to categories 1-7 and 10 (except applications covered under point 24) and expires on 21 July 2021. For categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021. For category 8 *in vitro* diagnostic medical devices expires on 21 July 2023. For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.)
- 7(b) Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications
- 7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric



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devices, or in a glass or ceramic matrix compound (Applies to categories 1-7 and 10 (except applications covered under point 34) and expires on 21 July 2021. For categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021. For category 8 *in vitro* diagnostic medical devices expires on 21 July 2023. For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.)

7(c)-II Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher (Does not apply to applications covered by point 7(c)-I and 7(c)-IV of this Annex. Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)

7(c)-III Lead in dielectric ceramic in capacitors for a rated voltage of less than 125V AC or 250V DC (For spare parts for EEE placed on the market before 1 January 2013).

7(c)-IV Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)

8(a) Cadmium and its compounds in one shot pellet type thermal cut-offs (For spare parts for EEE placed on the market before 1 January 2012)

8(b) Cadmium and its compounds in electrical contacts (Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)

8(b)-I Cadmium and its compounds in electrical contacts used in:

- circuit breakers,
- thermal sensing controls,
- thermal motor protectors (excluding hermetic thermal motor protectors),
- AC switches rated at:
 - 6 A and more at 250 V AC and more, or
 - 12 A and more at 125 V AC and more,
- DC switches rated at 20 A and more at 18 V DC and more, and
- switches for use at voltage supply frequency ≥ 200 Hz

(Applies to categories 1 to 7 and 10 and expires on 21 July 2021)

9 Hexavalent chromium as an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75% by weight in the cooling solution (Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)

9(a)-I Up to 0,75 % hexavalent chromium by weight, used as an anticorrosion agent in the cooling solution of carbon steel cooling systems of absorption refrigerators (including minibars) designed to operate fully or partly with electrical heater, having an average utilised power input < 75 W at constant running conditions. (Applies to categories 1-7 and 10 and expires on 5 March 2021.)

9(a)-II Up to 0,75 % hexavalent chromium by weight, used as an anticorrosion agent in the cooling solution of carbon steel cooling systems of absorption refrigerators:

- designed to operate fully or partly with electrical heater, having an average utilised power input ≥ 75 W at constant running conditions,
- designed to fully operate with non-electrical heater.

(Applies to categories 1-7 and 10 and expires on 21 July 2021.)

9(b) Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications (Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)

11(b) Lead used in other than C-press compliant pin connector systems (For spare parts for EEE placed on the market before 1 January 2013)

13(a) Lead in white glasses used for optical applications (Applies to all categories; expires on: 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments and for category 11; 21 July 2021 for all other categories and subcategories)

13(b) Cadmium and lead in filter glasses and glasses used for reflectance standards (Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)

13(b)-(I) Lead in ion coloured optical filter glass types (Applies to categories 1 to 7 and 10; expires on 21 July 2021 for categories 1 to 7 and 10)

13(b)-(II) Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex (Applies to categories 1 to 7 and 10; expires on 21 July 2021 for categories 1 to 7 and 10)

13(b)-(III) Cadmium and lead in glazes used for reflectance standards (Applies to categories 1 to 7 and 10; expires on 21 July 2021 for categories 1 to 7 and 10)

14 Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80% and less than 85% by weight (For spare parts for EEE placed on the market before 1 January 2011)

15 Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages (Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)



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- 15(a) Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies:
- a semiconductor technology node of 90 nm or larger;
 - a single die of 300 mm² or larger in any semiconductor technology node;
 - stacked die packages with die of 300 mm² or larger, or silicon interposers of 300 mm² or larger.
- (Applies to categories 1 to 7 and 10 and expires on 21 July 2021.)
- 17 Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications
- 18(b) Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi₂O₅:Pb) (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 18(b)-i Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi₂O₅:Pb) when used in medical phototherapy equipment (Applies to categories 5 and 8, excluding applications covered by entry 34 of Annex IV, and expires on 21 July 2021)
- 21 Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glass (Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 21(a) Cadmium when used in colour printed glass to provide filtering functions, used as a component in lighting applications installed in displays and control panels of EEE (Applies to categories 1 to 7 and 10 except applications covered by entry 21(b) or entry 39 and expires on 21 July 2021)
- 21(b) Cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses (Applies to categories 1 to 7 and 10 except applications covered by entry 21(a) or 39 and expires on 21 July 2021)
- 21(c) Lead in printing inks for the application of enamels on other than borosilicate glasses (Applies to categories 1 to 7 and 10 and expires on 21 July 2021.)
- 24 Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 25 Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring
- 29 Lead bound in crystal glass as defined in Annex 1 (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 30 Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more
- 31 Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)
- 32 Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 33 Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers
- 34 Lead in cermet-based trimmer potentiometer elements (Applies to all categories; expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 37 Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 38 Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide
- 39(a) Cadmium selenide in downshifting cadmium-based semiconductor nanocrystal quantum dots for use in display lighting applications (< 0,2 µg Cd per mm² of display screen area) (Expires for all categories on [two years after the publication of the Delegated Directive in the Official Journal])
- 41 Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council) (Applies to all categories and expires on: 31 March 2022 for categories 1 to 7, 10 and 11; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments.)
- 42 Lead in bearings and bushes of diesel or gaseous fuel powered internal combustion engines applied in non-road professional use equipment:
- with engine total displacement ≥ 15 litres; or

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- with engine total displacement < 15 litres and the engine is designed to operate in applications where the time between signal to start and full load is required to be less than 10 seconds; or regular maintenance is typically performed in a harsh and dirty outdoor environment, such as mining, construction, and agriculture applications.
- 43 Bis(2-ethylhexyl) phthalate in rubber components in engine systems, designed for use in equipment that is not intended solely for consumer use and provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin and the concentration value of bis(2-ethylhexyl) phthalate does not exceed:
 - (a) 30 % by weight of the rubber for
 - (i) gasket coatings;
 - (ii) solid-rubber gaskets; or
 - (iii) rubber components included in assemblies of at least three components using electrical, mechanical or hydraulic energy to do work, and attached to the engine.
 - (b) 10 % by weight of the rubber for rubber-containing components not referred to in point (a).

For the purposes of this entry, "prolonged contact with human skin" means continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.
(Applies to category 11 and expires on 21 July 2024.)
- 44 Lead in solder of sensors, actuators, and engine control units of combustion engines within the scope of Regulation (EU) 2016/1628 of the European Parliament and of the Council ⁽¹⁾, installed in equipment used at fixed positions while in operation which is designed for professionals, but also used by non-professional users (Applies to category 11 and expires on 21 July 2024)

REMARK: This report replaces CCI200800126EN which will be automatically nullified on the date of issuance of this report

★★★★★ The End ★★★★★



Certificate of Conformity

Certificate No. : CCI200800126CER1

Applicant : Shen Zhen Woody Vapes Technology Co., Ltd.

Address : Block 1, Shapuyangyong Industry Park, Songgang, Bao'an District, Shenzhen ,
Guangdong, China.

Sample Name : DRAG MAX

Item/Style No. : DRAG MAX

Trade Mark : VOOPOO

Test Standards : IEC 62321-3-1:2013

IEC 62321-4: 2013+A1:2017

IEC 62321-5: 2013

IEC 62321-6:2015

IEC 62321-7-1:2015

IEC 62321-7-2:2017

IEC 62321-8:2017

The submitted sample(s) stated as above has(have) been tested by us with the listed standards and found in conformity with the requirements stated in Directive 2011/65/EU of the European Parliament and of the Council with regard to the restriction of the use of certain hazardous substances in electrical and electronic equipment and its subsequent amendments as well as Commission Delegated Directive (EU) 2015/863. It is possible to use CE marking on the product to demonstrate the conformity with this Directive.

This certification is part of the full test report(s) and should be read in conjunction with it. The certificate is based on a single evaluation of one sample of above-mentioned products. It does not imply an assessment of the whole production. Other CE marking directives may be applied, they have not been considered during this RoHS conformity assessment.

