

CE EMC REPORT

For

ShenZhen Ocity Times Technology Co., Ltd.

Mingyou Purchasing Center, NO. 168 Baoyuan Road, Bao'an District, 518102
Shenzhen City, Guangdong Province, China.

Test Standards	:	EN 55032:2015 EN 55024:2010+A1:2015
Product Description	:	E-cigarette
Tested Model	:	O8-USB, C1, C2-C, C4, C5, C5-B, C5-C, C5-2, C5-4C, C6, C7,C8, C9, C10, C11, C11-D, C18, C18-VC, C19, C19-VC, C20,C20-VC, C22, C22-VC, C80, CG01, CE3, G2, pod, S1, S3, S4, S5, S6, S9, S18, S18-USB, S19, ego, evod, evod-USB, evod-twist, freeair, 510 touch, dex, juod, o1, o2, o2-usb, o6, o8, o10, o80, D3, DEBBIEVV1, DEBBIE500, MiniStick, 865 , O200, O250, O300, O360, O500, O800, MiniBar, sidebox, MagicSaN, MagicFUN
Brand Name	:	N/A
Report No.	:	HUT1903148811ER
Tested Date	:	Mar.14,2019-Mar.19,2019
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Note: This report is considered invalidated without the Special Seal for Inspection of the HUT. This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of HUT, this test report shall not be copied except in full and published as advertisement.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information		
Applicant	:	ShenZhen Ocicy Times Technology Co., Ltd.
Address of applicant	:	Mingyou Purchasing Center, NO. 168 Baoyuan Road, Bao'an District, 518102 Shenzhen City, Guangdong Province, China
Manufacturer	:	ShenZhen Ocicy Times Technology Co., Ltd.
Address of manufacturer	:	Mingyou Purchasing Center, NO. 168 Baoyuan Road, Bao'an District, 518102 Shenzhen City, Guangdong Province, China

General Description of EUT		
Product Name	:	E-cigarette
Trade Name	:	N/A
Model No	:	O8-USB
Adding Model(s)	:	C1, C2-C, C4, C5, C5-B, C5-C, C5-2, C5-4C, C6, C7,C8, C9, C10, C11, C11-D, C18, C18-VC, C19, C19-VC, C20,C20-VC, C22, C22-VC, C80, CG01, CE3, G2, pod, S1, S3, S4, S5, S6, S9, S18, S18-USB, S19, ego, evod, evod-USB, evod-twist, freeair, 510 touch, dex, juod, o1, o2, o2-usb, o6, o8, o10, o80, D3, DEBBIEVV1, DEBBIE500, MiniStick, 865 , O200, O250, O300, O360, O500, O800, MiniBar, sidebox, MagicSaN, MagicFUN
<p><i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model O8-USB, but the circuit and the electronic construction do not change, declared by the manufacturer.</i></p>		

Technical Characteristics of EUT		
Rated Voltage	:	DC 5V
Rated Current	:	1A
Rated Power	:	/
Highest Internal Frequency	:	Below 108MHz
Classification of Equipment	:	Class B

1.2 Test Standards

The following report is prepared on behalf of the ShenZhen Ocity Times Technology Co., Ltd. in accordance with EN55032, Electromagnetic compatibility of multimedia equipment - Emission requirements, and EN61000-3-2, Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions(equipment input current up to and including 16 A per phase), and EN61000-3-3, Electromagnetic compatibility(EMC) -- Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection, and EN55024, Immunity characteristics Limits and methods of measurement.

The objective of the manufacturer is to demonstrate compliance with the standards EN55032, EN61000-3-2, EN61000-3-3, and EN55024 for multimedia equipment.

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

1.3 Test Methodology

All measurements contained in this report were conducted with the standards EN55032, EN61000-3-2, EN61000-3-3, and EN55024 for Information Technology Equipment, and all related testing and measurement techniques intentional standards.

1.4 Test Facility

FCC – Registration :

Shenzhen HUT Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission.

Industry Canada (IC) Registration :

The 3m Semi-anechoic chamber of Shenzhen HUT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration.

CNAS Registration :

Shenzhen HUT Testing Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. All measurement facilities used to collect the measurement data are located at 6F, Block B, Huafeng Internet + Creative Park, Republican Industrial Road 107, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China.

1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission/immunity level. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode List:

Test Mode	Description	Remark
TM1	Charging	/

EUT Details

EUT Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
Conversion plug	/	/	
Charging Cable	/	/	/

Special EUT List and Details

EUT Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/

1.6 Performance Criteria for EMS

All the test data has been collected, reduced, and analyzed within this report in accordance with Immunity requires the following as specific performance criteria:

A. The apparatus shall continue to operate as intended during and after the test. The manufacturer specifies some minimum performance level. The performance level may be specified by the manufacturer as a permissible loss of performance.

B. The apparatus shall continue to operate as intended after the test. This indicates that the EUT does not need to function at normal performance levels during the test, but must recover. Again some minimal performance is defined by the manufacture. No change in operating state or loss or data is permitted.

C. Temporary loss of function is allowed. Operation of the EUT may stop as long as it is either automatically reset or can be manually restored by operation of the controls.

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
HUT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP	836079/035	2018-12-26	2019-12-25
HUT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2018-12-26	2019-12-25
HUT-1008	Amplifier	Agilent	8447F	3113A06717	2018-12-26	2019-12-25
HUT-1043	Amplifier	C&D	PAP-1G18	2002	2018-12-26	2019-12-25
HUT-1011	Trilog Broadband Antenna	Schwarz beck	VULB9163	9163-333	2018-12-26	2019-12-25
HUT-1068	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-333	2018-12-26	2019-12-25
HUT-1042	Horn Antenna	ETS	3117	00086197	2018-12-26	2019-12-25
HUT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2018-12-26	2019-12-25
HUT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2018-12-26	2019-12-25
HUT-1066	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2018-12-26	2019-12-25
HUT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2018-12-26	2019-12-25
HUT-1003	AC LISN	Schwarz beck	NSLK8126	8126-224	2018-12-26	2019-12-25
HUT-1060	DC LISN	Schwarz beck	NNBM8126DN	279	2018-12-26	2019-12-25
HUT-1061	DC LISN	Schwarz beck	NNBM8126D	280	2018-12-26	2019-12-25
HUT-1085	8-WIRE LISN	Schwarz beck	8158	CAT3-8158-0059	2018-12-26	2019-12-25
HUT-1086	8-WIRE LISN	Schwarz beck	8158	CAT5-8158-0117	2018-12-26	2019-12-25
HUT-1005	Clamp	Schwarz beck	MDS21	3809	2018-12-26	2019-12-25
HUT-1014	Loop Antenna	EVERFINE	LLA-2	711001	2018-12-26	2019-12-25
HUT-1071	VDH Test Head	AFJ	VDH 30	SC022Z	2018-12-26	2019-12-25
HUT-1056	Digital Power Analyzer	California Instrument	CTS	72831	2018-12-26	2019-12-25
HUT-1057	Power Source	California Instrument	5001IX-CTS-400	25965	2018-12-26	2019-12-25
HUT-1027	ESD Generator	TESQ AG	NSG 437	161	2018-12-26	2019-12-25
HUT-1055	Signal Generator	HP	8648A	3642U01277	2018-12-26	2019-12-25
HUT-1008	Amplifier	Agilent	8447F	3113A06717	2018-12-26	2019-12-25
HUT-1067	Amplifier	Agilent	8447D	2944A10179	2018-12-26	2019-12-25
HUT-1024	Transient 2000	EMC PARTNER	TRA2000	863	2018-12-26	2019-12-25
HUT-1045	CS Immunity Tester	EMTEST	CWS500	0900-03	2018-12-26	2019-12-25

2. SUMMARY OF TEST RESULTS

Standards	Description of Test Item	Result
EN55032	Conducted Emission	Compliant
	Radiated Emission	Compliant
EN61000-3-2	Harmonic Current Emission	N/A
EN61000-3-3	Voltage Fluctuation and Flicker	N/A
EN55024	Electrostatic Discharge Immunity in accordance with IEC 61000-4-2	Compliant
	Continuous Radiated Disturbances Immunity in accordance with IEC 61000-4-3	Compliant
	Electrical Fast Transient/Burst Immunity in accordance with IEC 61000-4-4	N/A
	Surges Immunity in accordance with IEC 61000-4-5	N/A
	Continuous Conducted Disturbances Immunity in accordance with IEC 61000-4-6	N/A
	Power-frequency Magnetic Fields Immunity in accordance with IEC 61000-4-8	N/A
	Voltage Dips/Interruptions Immunity in accordance with IEC 61000-4-11	N/A

N/A: not applicable

3. Conducted Emission

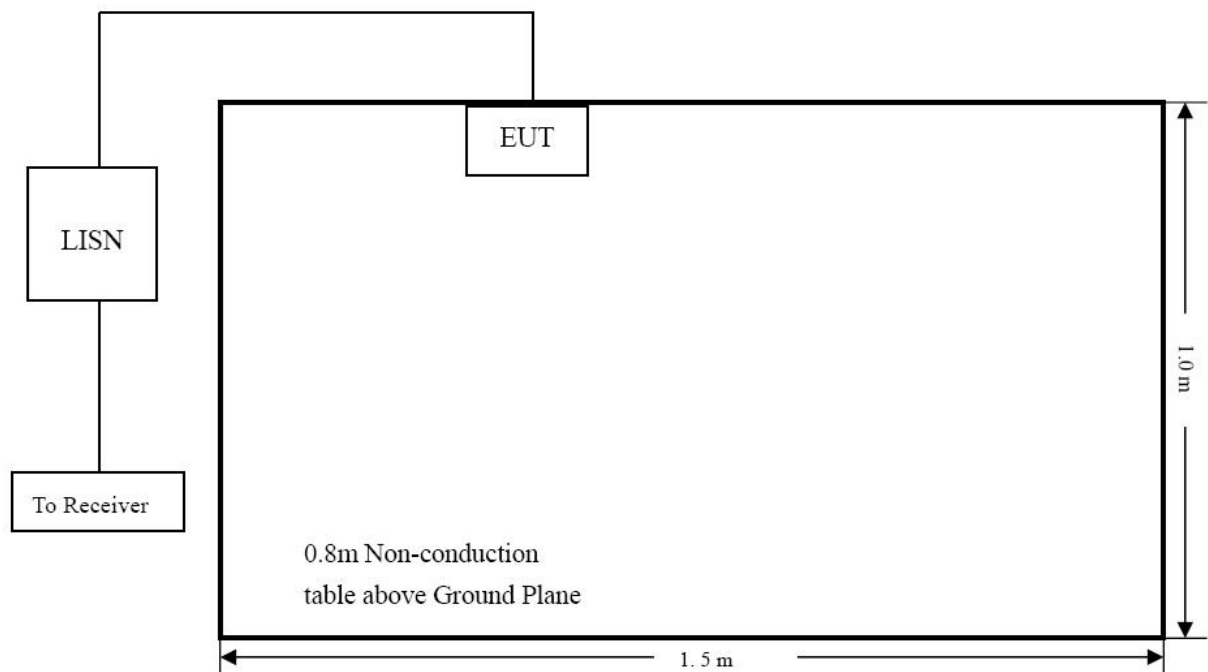
3.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is + 2.88 dB.

3.2 Test Procedure

Test is conducting under the description of EN55032 Annex A.3.5.

3.3 Basic Test Setup Block Diagram



3.4 Environmental Conditions

Temperature:	22 ° C
Relative Humidity:	55 %
ATM Pressure:	1015 mbar

3.5 Summary of Test Results/Plots

According to the data in section 3.6, the EUT complied with the EN55032 Conducted margin for a Class B device, with the worst margin reading of:

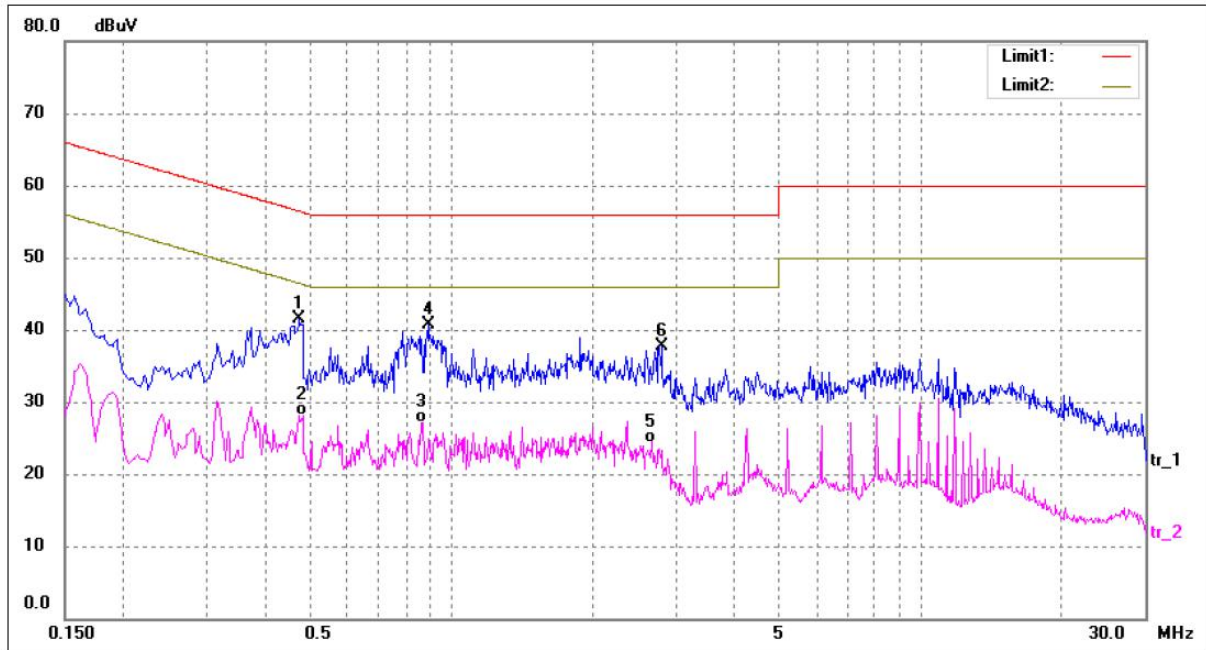
-12.01 dB at 0.9140 MHz in the Line mode, peak detector, 0.15-30MHz

3.6 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

EUT: *E-cigarette*
Tested Model: *O8-USB*
Operating Condition: *TMI*
Comment: *AC 230V/50Hz*

Test Specification: *Neutral*

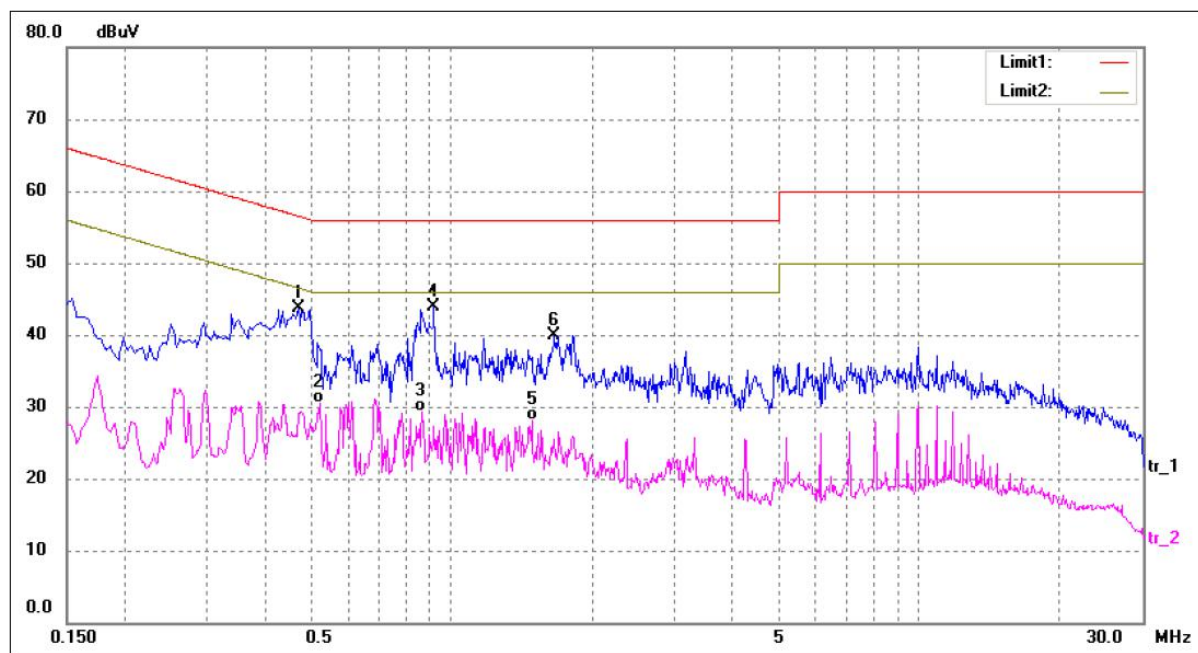


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.4740	31.64	9.80	41.44	56.44	-15.00	peak
2	0.4820	18.36	9.80	28.16	46.30	-18.14	AVG
3	0.8700	17.26	9.77	27.03	46.00	-18.97	AVG
4	0.8940	30.88	9.77	40.65	56.00	-15.35	peak
5	2.6780	14.68	9.72	24.40	46.00	-21.60	AVG
6	2.8020	28.00	9.71	37.71	56.00	-18.29	peak

Plot of Conducted Emissions Test Data

EUT: E-cigarette
Tested Model: O8-USB
Operating Condition: TM1
Comment: AC 230V/50Hz

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.4700	33.89	9.80	43.69	56.51	-12.82	peak
2	0.5220	20.76	9.80	30.56	46.00	-15.44	AVG
3	0.8660	19.58	9.77	29.35	46.00	-16.65	AVG
4*	0.9140	34.22	9.77	43.99	56.00	-12.01	peak
5	1.4860	18.38	9.75	28.13	46.00	-17.87	AVG
6	1.6540	30.20	9.74	39.94	56.00	-16.06	peak

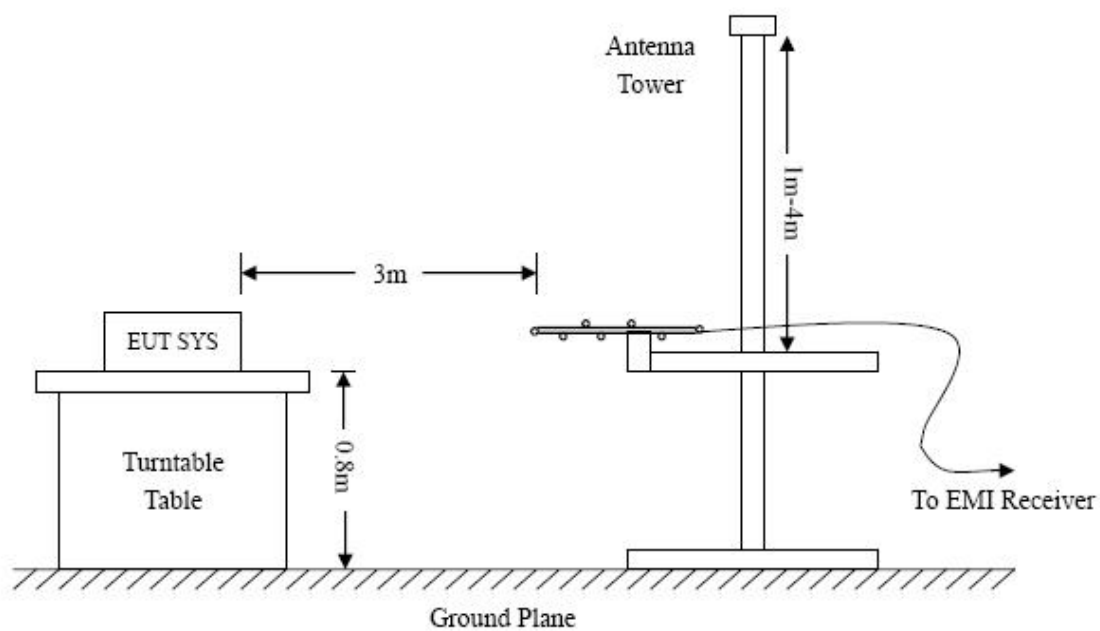
4. Radiated Emission

4.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any radiation emissions measurement is + 5.10 dB.

4.2 Test Procedure

Test is conducting under the description of EN55032 Annex A.3.4.



4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit for Class B device. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{EN55032 Class B Limit}$$

4.4 Environmental Conditions

Temperature:	23 ° C
Relative Humidity:	53 %
ATM Pressure:	1011 mbar

4.5 Summary of Test Results/Plots

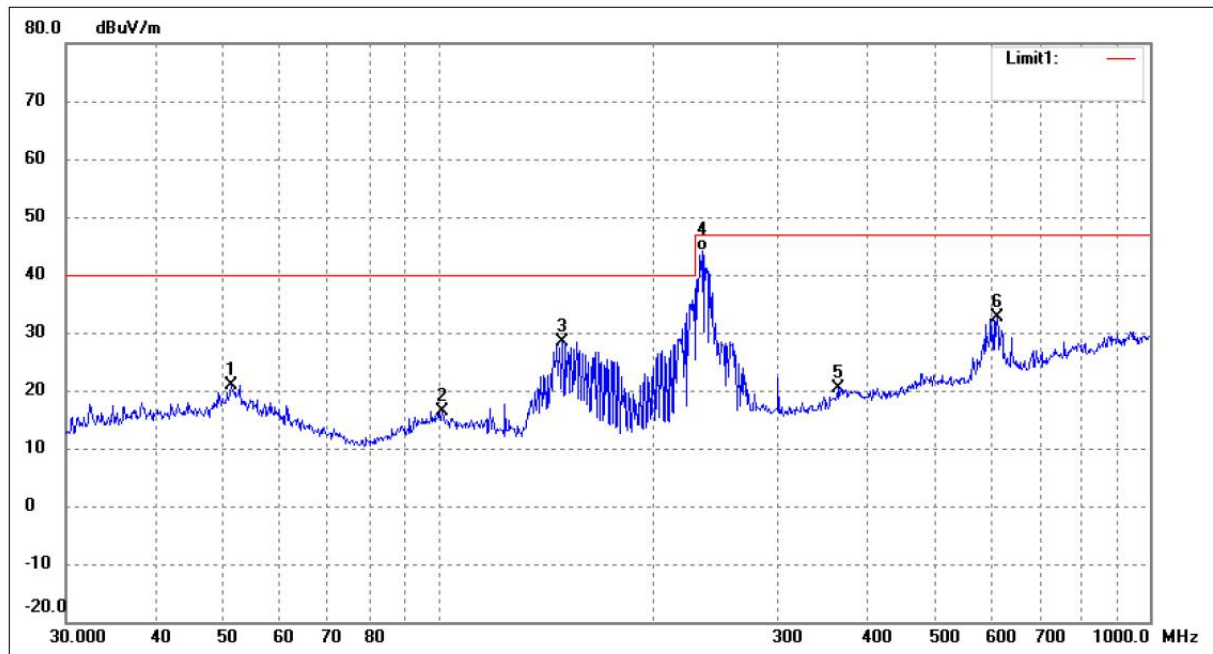
According to the data in section 4.5, the EUT complied with the EN55032 Class B standards, and had the worst margin is:

-2.99 dB at 234.9909 MHz in the Horizontal polarization, 30 MHz to 1 GHz, 3Meters

Plot of Radiated Emissions Test Data

EUT: E-cigarette
Tested Model: O8-USB
Operating Condition: TM1
Comment: AC 230V/50Hz

Test Specification: Horizontal

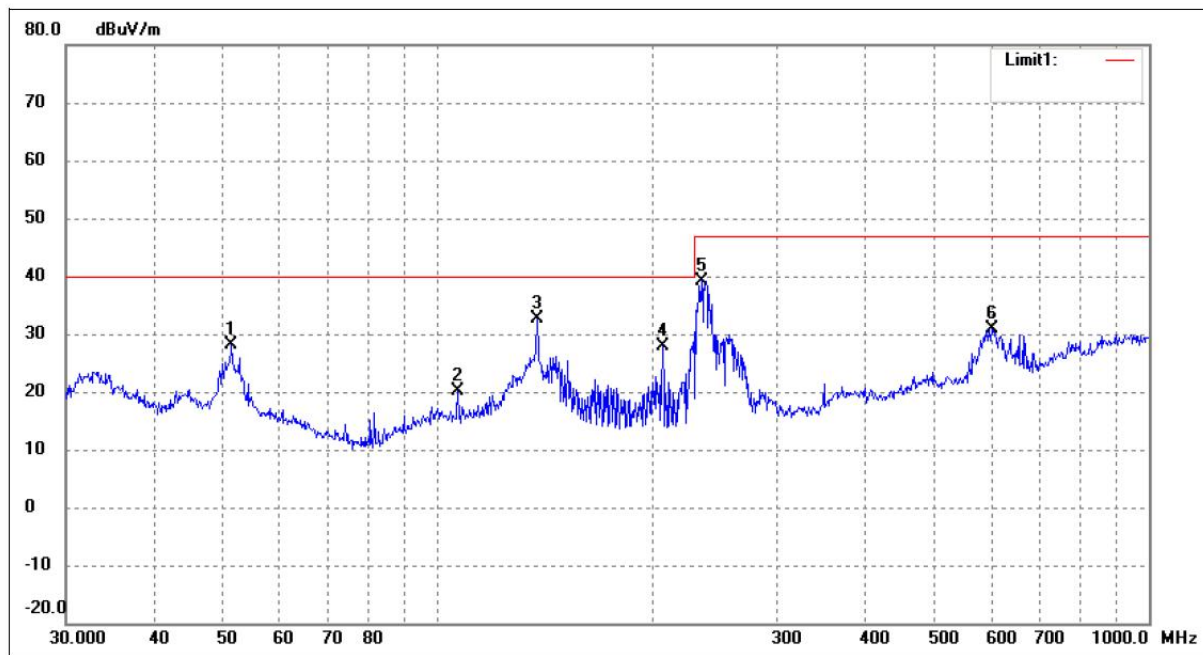


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	51.1209	31.80	-10.82	20.98	40.00	-19.02	0	100	peak
2	101.2885	27.83	-11.55	16.28	40.00	-23.72	0	100	peak
3	149.4857	43.32	-14.95	28.37	40.00	-11.63	0	100	peak
4	234.9909	55.35	-11.34	44.01	47.00	-2.99	0	100	QP
5	364.2595	28.13	-7.71	20.42	47.00	-26.58	0	100	peak
6	609.9217	36.07	-3.56	32.51	47.00	-14.49	0	100	peak

Plot of Radiated Emissions Test Data

EUT: E-cigarette
Tested Model: O8-USB
Operating Condition: TM1
Comment: AC 230V/50Hz

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	51.3005	38.93	-10.83	28.10	40.00	-11.90	0	100	peak
2	106.7587	32.20	-12.17	20.03	40.00	-19.97	0	100	peak
3	137.9028	47.42	-14.68	32.74	40.00	-7.26	0	100	peak
4	207.1226	39.82	-11.92	27.90	40.00	-12.10	0	100	peak
5	234.9909	50.59	-11.34	39.25	47.00	-7.75	0	100	peak
6	601.4265	35.04	-4.20	30.84	47.00	-16.16	0	100	peak

5. Electrostatic Discharges (ESD)

5.1 Test Procedure

Test is conducting under the description of IEC61000-4-2.

Test Performance

Performance Criterion: B

Environmental Conditions

Temperature:	26 ° C
Relative Humidity:	55 %
ATM Pressure:	1011 mbar

5.2 Electrostatic Discharge Immunity Test Data

Table 1: Electrostatic Discharge Immunity (Air Discharge)

EN 61000-4-2 Test Points	Test Levels (kV)									
	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Surface	A	A	A	A	A	A	A	A		

Table 2: Electrostatic Discharge Immunity (Direct Contact)

EN 61000-4-2 Test Points	Test Levels (kV)									
	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
/	/	/	/	/						

Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP)

EN 61000-4-2 Test Points	Test Levels (kV)									
	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Front Side	A	A	A	A						
Top Side	A	A	A	A						
Back Side	A	A	A	A						
Left Side	A	A	A	A						
Right Side	A	A	A	A						

Table 4: Electrostatic Discharge Immunity (Indirect Contact VCP)

EN 61000-4-2 Test Points	Test Levels (kV)									
	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Front Side	A	A	A	A						
Top Side	A	A	A	A						
Back Side	A	A	A	A						
Left Side	A	A	A	A						
Right Side	A	A	A	A						

Test Result: Pass

6. Continuous Radiated Disturbances (R/S)

6.1 Test Procedure

Test is conducting under the description of IEC61000-4-3.

Test Performance

Performance Criterion: A

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52 %
ATM Pressure:	1010 mbar

6.2 Continuous Radiated Disturbances Test Data

Frequency step: 1% of fundamental

Dwell time: 1 second

Modulation: AM by 1kHz sine wave with 80% modulation depth

Frequency Range(MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-1000	3	A	A	A	A	A	A	A	A

Test Result: Pass

EXHIBIT 1 - PRODUCT LABELING

Proposed CE Label Format

E-cigarette Model:O8-USB Brand: XXX Importer Name: XXX Importer Address: XXX ShenZhen Ocity Times Technology Co., Ltd. Mingyou Purchasing Center, NO. 168 Baoyuan Road, Bao'an District, 518102 Shenzhen City, Guangdong Province, China	  
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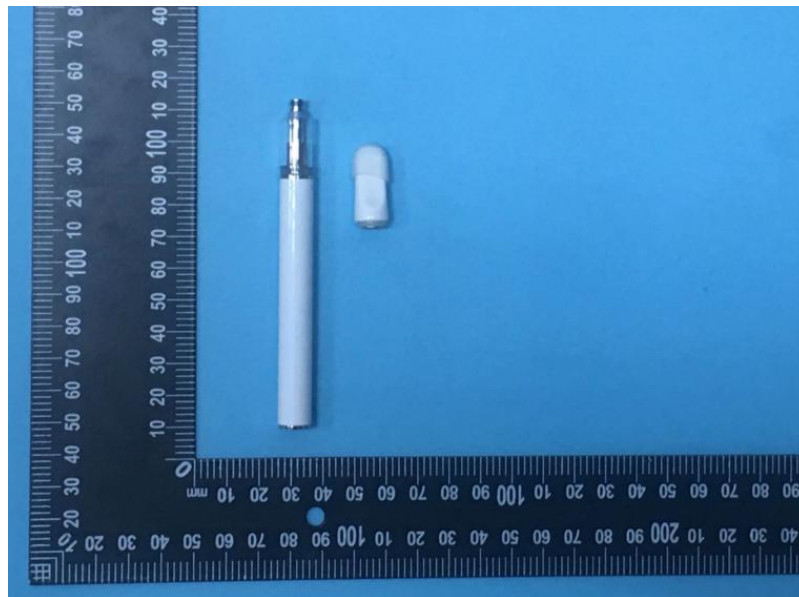
Specifications: Text is Black in color and is justified. Labels are printed in indelible ink on permanent adhesive backing or silk-screened onto the EUT or shall be affixed at a conspicuous location on the EUT. The 'CE' marking must be affixed to the EUT or to its data plate. Where this is not possible or not warranted on account of the nature of the apparatus, it must be affixed to the packaging, if any, and to the accompanying documents. The 'CE' marking is allowed less than 5 mm but must clear. If the 'CE' marking is reduced or enlarged the proportions given in the above graduated drawing must be respected. The Importer name, address and Manufacturer name and address should indicate on marking label or packaging or in a document accompanying

Proposed Label Location on EUT



EXHIBIT 2 - EUT PHOTOGRAPHS**Photo 1 General Appearance of the EUT****Photo 2 General Appearance of the EUT**

Photo 3 General Appearance of the EUT



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