

# Test Report

Report No.: JC-CPC240493-2

For *Tobacco Product Directive (2014/40/EU) Article 20 &  
Part 6 of the Tobacco and Related Products Regulations 2016 (TRPR)*  
Emission Test

**Applicant:** FUUMY TECHNOLOGY (DONGGUAN) CO., LTD

**Manufacturer:** FUUMY TECHNOLOGY (DONGGUAN) CO., LTD

**Name of Sample:** Disposable e-cigarette

**Flavor:** MIXED BERRIES

**Brand:** TUGBOAT

**Model:** T12000

**Date of Issuance:** Jun. 06, 2024



**Skyte Testing Services Guangdong Co., Ltd.**



# Test Report



中国认可  
国际互认  
检测  
TESTING  
CNAS L4549

Report No.: JC-CPC240493-2

Report Date: Jun. 06, 2024

Applicant Name: FUUMY TECHNOLOGY (DONGGUAN) CO., LTD  
Applicant Add.: Building 7, 224 Taian Road, Changan, Dongguan, Guangdong, China  
Manufacturer: FUUMY TECHNOLOGY (DONGGUAN) CO., LTD  
Manufacturer Add.: Building 7, 224 Taian Road, Changan, Dongguan, Guangdong, China

Test sample was submitted by the applicant, report on the submitted sample said to be:

Sample Name: Disposable e-cigarette  
Nicotine Conc.: 20 mg/mL  
Density: 1.1274 g/mL  
Flavor: MIXED BERRIES  
Brand: TUGBOAT  
Model: T12000  
Output Power: 13 W  
Resistance: 0.95 Ω

Sample Received Date: May 31, 2024  
Testing Period: May 31, 2024 to Jun. 06, 2024

Tests Conducted: As requested by the applicant. See the following pages for details.



Signed for and on behalf of  
Skyte Testing Services Guangdong Co., Ltd.

Vanessa Huang / Technical Director  
Approved Signatory

Remark: Please note that every statement made in this report is only valid for the samples tested and reported herein. This report shall not be reproduced except in full, without the written approval of SKYTE. The samples's information was provided by the applicant, SKYTE has no responsibility for the truth of such information.

Skyte Testing Services Guangdong Co., Ltd.  
Add.: 7/F, Bldg 1, Jia'an Hi-Tech Industrial Park, 1st Liuxian Road,  
Block 67, Bao'an District, Shenzhen, P.R.C.

Website: www.skyte.com.cn  
Email: service@skyte.com.cn  
Postcode: 518101

Tel: (86-0755) 3323 9933  
Fax: (86-0755) 2672 7113  
Hot Line: 400-6898-200



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## Test Requirement and Conclusion:

Test Items	Test Requirement and Conclusion
Nicotine and Nicotine Consistence, Alcohols, Ketones, Carbonyls, Volatile Organic Compounds (VOC), Metal and Nonmetal Elements, Specific Nitrosamine	Test conducted as per <i>Tobacco Product Directive (2014/40/EU) Article 20 &amp; UK Statutory Instruments on The Tobacco and Related Products Regulations 2016, PART 6– Electronic cigarettes</i> . The test results meet the target values of AFNOR XP D90-300-3:2021 Annex B.

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## Smoking Condition

Number of series: 5  
 Number of puffs per series: 20  
 Total number of puffs: 100  
 Puffing duration: (3.0±0.1) s  
 Total vaporization duration: 300 s  
 Time between 2 puffs: (30.0±0.5) s  
 Time between 2 series: (300±120) s  
 Puff volume: (55.0±0.3) mL  
 Maximum flow rate: (18.3±1.8) mL/s  
 Inhalation profile: Square wave  
 Device power setting: Fixed  
 Smoking basis: AFNOR XP D90-300-3:2021

## Test Results

### 1. Nicotine and Nicotine Consistence

Test Item	Test Results (mg/mL)			AVG (mg/mL)	Target Value *
	Serie1 (1~20 puffs)	Serie3 (41~60 puffs)	Serie5 (81~100 puffs)		
Nicotine Consistence	14.68	13.48	16.04	14.73	—
Deviation	-0.34%	-8.49%	8.89%	—	30%

Test Item	CAS No.	Test Result (mg/100 puffs)	MDL (mg/100 puffs)
Nicotine	54-11-5	11.12	0.05

### 2. Alcohols

Test Items	CAS No.	Test Results (µg/200 puffs)	MDL (µg/200 puffs)
Ethylene glycol	107-21-1	N.D.	20
Diethylene glycol	111-46-6	N.D.	20

### 3. Ketones

Test Items	CAS No.	Test Results (µg/200 puffs)	MDL (µg/200 puffs)	Target Value * (µg/200 puffs)
Diacetyl	431-03-8	N.D.	0.6	490
2,3-Pentanedione	600-14-6	N.D.	8.0	—



#### 4. Carbonyls

Test Items	CAS No.	Test Results (µg/200 puffs)	MDL (µg/200 puffs)	Target Values* (µg/200 puffs)
Formaldehyde	50-00-0	62.9	0.4	200
Acetaldehyde	75-07-0	10.3	0.8	3200
Acrolein	107-02-8	N.D.	0.6	16
Crotonaldehyde	123-73-9	N.D.	4.0	—

#### 5. Volatile Organic Compounds (VOC)

Test Items	CAS No.	Test Results (µg/200 puffs)	MDL (µg/200 puffs)
Benzene	71-43-2	N.D.	4.0
Toluene	108-88-3	N.D.	4.0
1,3-Butadiene	106-99-0	N.D.	40
Isoprene	78-79-5	N.D.	4.0

#### 6. Metal and Nonmetal Elements

Test Items	CAS No.	Test Results (µg/200 puffs)	MDL (µg/200 puffs)	Target Values* (µg/200 puffs)
Chromium (Cr)	7440-47-3	N.D.	0.03	3
Nickel (Ni)	7440-02-0	N.D.	0.03	5
Cadmium (Cd)	7440-43-9	N.D.	0.03	3
Lead (Pb)	7439-92-1	N.D.	0.03	5
Arsenic (As)	7440-38-2	N.D.	0.03	2
Antimony (Sb)	7440-36-0	N.D.	0.03	20
Tin (Sn)	7440-31-5	N.D.	0.1	—
Mercury (Hg)	7439-97-6	N.D.	0.03	1
Copper (Cu)	7440-50-8	N.D.	0.5	—
Aluminum (Al)	7429-90-5	N.D.	0.5	—
Iron (Fe)	7439-89-6	N.D.	0.1	—

## 7. Specific Nitrosamine

Test Items	CAS No.	Test Results (ng/200 puffs)	MDL(ng/200 puffs)
NNN	16543-55-8	N.D.	25
NNK	64091-91-4	N.D.	25
NAB	1133-64-8	N.D.	25
NAT	887407-16-1	N.D.	25

Tested by: Qin Caiyue, Yin Yuanyue, Zhang Mengting, Chen Junlong, Wang Benyang

Checked by: Huang Xiangwei, Zheng Caiju

### Remarks:

- (1) mg/mL = milligram per milliliter
- (2) mg/100 puffs = milligram per one hundred puffs
- (3) µg/200 puffs = microgram per two hundred puffs
- (4) ng/200 puffs = nanogram per two hundred puffs
- (5) MDL = method detection limit
- (6) N.D. = not detected, less than MDL
- (7) \* = The target values are quoted from AFNOR XP D90-300-3:2021 Annex B.
- (8) The test item of Specific Nitrosamine was not accredited by CNAS.

## Test Methods

Test Items	Test Methods	Test Instruments
Nicotine and Nicotine Consistence	AFNOR XP D90-300-3:2021 Annex A.3	GC-FID
Ethylene glycol	C-QT-1800-TP (In-house test method)	GC-FID
Diethylene glycol		
Diacetyl	AFNOR XP D90-300-3:2021 Annex A.4	GC-MS
2,3-Pentanedione		
Formaldehyde	AFNOR XP D90-300-3:2021 Annex A.5	UPLC-PDA
Acetaldehyde		
Acrolein		
Crotonaldehyde		

Test Items	Test Methods	Test Instruments
Benzene	CORESTA RECOMMENDED METHOD No.70 (2019)	GC-MS
Toluene		
1,3-Butadiene		
Isoprene		
Chromium (Cr)	AFNOR XP D90-300-3:2021 Annex A.6	ICP-MS
Nickel (Ni)		
Cadmium (Cd)		
Lead (Pb)		
Arsenic (As)		
Antimony (Sb)		
Tin (Sn)		
Mercury (Hg)		
Copper (Cu)		
Aluminum (Al)		
Iron (Fe)		
NNN		
NNK		
NAB		
NAT		

## Sample Photo



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(End of report)