



中国认可  
国际互认  
检测  
TESTING  
CNAS L4549

# Test Report

Report No.: JC-CPC250403-2-1

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

**Applicant:** SHENZHEN LANA TECHNOLOGY CO., LTD

**Manufacturer:** /

**Name of Sample:** Disposable Electronic Cigarette

**Flavor:** STRAWBERRY KIWI ICE

**Device Brand:** ZOOY, OLD SCHOOL, LANAVAPE

**Device Model:** /

**Date of Issuance:** Jun. 27, 2025

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



# Test Report



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Report Date: Jun. 27, 2025

Applicant Name: SHENZHEN LANA TECHNOLOGY CO., LTD

Applicant Add.: 1101, Xinbaoyi Industry And Trade Building, No. 29, The Third Industrial Zone,  
Houting Community, Shajing Street, Bao'An District, Shenzhen

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

Sample Information: See next page

Sample Received Date: Jun. 16, 2025

Testing Period: Jun. 16, 2025 to Jun. 23, 2025

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

## Sample Information:

|                 |                                 |
|-----------------|---------------------------------|
| Sample Name:    | Disposable Electronic Cigarette |
| Nicotine Conc.: | 20 mg/mL                        |
| Density:        | 1.1021 g/cm <sup>3</sup>        |
| Flavor:         | STRAWBERRY KIWI ICE             |
| Device Brand:   | ZOOY, OLD SCHOOL, LANAVAPE      |
| Output Power:   | 8 W ~ 15 W                      |
| Resistance:     | 1.0 Ω                           |

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## Test Requirement and Conclusion:

| Test Items                                                                                                                                                       | Test Requirement and Conclusion                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nicotine and Nicotine Consistence,<br>Alcohols, Ketones, Carbonyls,<br>Volatile Organic Compounds (VOC),<br>Metal and Nonmetal Elements,<br>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<br>(mg/mL) | Target Value* |
|----------------------|------------------------|-------------------------|--------------------------|----------------|---------------|
|                      | Serie1<br>(1~20 puffs) | Serie3<br>(41~60 puffs) | Serie5<br>(81~100 puffs) |                |               |
| Nicotine Consistence | 18.48                  | 18.26                   | 18.57                    | 18.44          | —             |
| Deviation            | 0.22%                  | -0.98%                  | 0.70%                    | —              | 30%           |

| Test Item | CAS No. | Test Result (mg/100 puffs) | MDL (mg/100 puffs) |
|-----------|---------|----------------------------|--------------------|
| Nicotine  | 54-11-5 | 25.58                      | 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<br>(µg/200 puffs) | Target Value*<br>(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  | 59.7                        | 0.4                | 200                           |
| Acetaldehyde   | 75-07-0  | 32.8                        | 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 (ng/200 puffs) | MDL (ng/200 puffs) | Target Values* (ng/200 puffs) |
|---------------|-----------|-----------------------------|--------------------|-------------------------------|
| Chromium (Cr) | 7440-47-3 | 157                         | 2.12               | 3000                          |
| Nickel (Ni)   | 7440-02-0 | 33.5                        | 1.50               | 5000                          |
| Cadmium (Cd)  | 7440-43-9 | N.D.                        | 1.52               | 3000                          |
| Lead (Pb)     | 7439-92-1 | 1.80                        | 1.48               | 5000                          |
| Arsenic (As)  | 7440-38-2 | 24.7                        | 1.38               | 2000                          |
| Antimony (Sb) | 7440-36-0 | N.D.                        | 1.48               | 20000                         |
| Tin (Sn)      | 7440-31-5 | 3.86×10 <sup>3</sup>        | 10                 | —                             |
| Mercury (Hg)  | 7439-97-6 | N.D.                        | 2.38               | 1000                          |
| Copper (Cu)   | 7440-50-8 | 1.11×10 <sup>3</sup>        | 10                 | —                             |

| Test Items    | CAS No.   | Test Results (µg/200 puffs) | MDL (µg/200 puffs) |
|---------------|-----------|-----------------------------|--------------------|
| Aluminum (Al) | 7429-90-5 | N.D.                        | 0.5                |
| Iron (Fe)     | 7439-89-6 | 0.4                         | 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: Huang Guoliang, Yin Yuanyue, Zhao Yuan, Wang Tao, Li Yinjian, Chen Junlong

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.

## 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<br>(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           | CORESTA RECOMMENDED METHOD No.75 (2022) | LC-MS/MS         |
| NNK           |                                         |                  |
| NAB           |                                         |                  |
| NAT           |                                         |                  |

Report No.: JC-CPC250403-2-1

## Sample Photo



**JC-CPC250403-2-1**

(End of report)