

Report No. : TCT241119C0	11004 Date :	Nov. 26, 2024	Page No.: 1 of 8
Applicant:	ION Inc.		
Address: 6	01-80 Rue Queen, Montrea	al, QC, H3C 2N5, CANADA	
The following sample was	s submitted and identified	by/on behalf of the client a	is:
Sample Name:	NO SAINT Mcintosh Apple	Nectar Pod	
Model No.:	N0N01N1		
Flavor:	Mcintosh Apple Nectar		
Nicotine Conc.:	20mg/mL		
Power level in testing:	Voltage/Wattage of tested s	sample is un-adjustable	
Manufacturer:	Shenzhen Eigate Technolo	gy Co., Ltd.	
Address:	Floor 1-4, Building 3, No.14	4 Jian'an Road, Shajing Sub	-district, Bao'an District,
	Shenzhen, Guangdong Pro	ovince, 518103 China.	
Sample Received Date:	2024.11.19		
Testing Period:	2024.11.19—2024.11.26		
Test Method:	Please refer to the following	g page(s).	
Test Result(s):	Please refer to the following	g page(s).	

Tes	st Items	Test Requested
1	Nicotine consistency	Emission testing
2	Carbonyl Compounds: Formaldehyde, Acetaldehyde, Acrolein, Crotonaldehyde	according to Article
2	Metals: Aluminum, Chromium, Iron, Nickel, Tin, Lead, Cadmium, Arsenic,	20 of Tobacco
3	Antimony, Mercury, Copper	Product Directive
4	Diacetyl and Pentane 2,3 dione	(2014/40/EU) and
5	Ethylene Glycol and Diethylene Glycol	Part 6 of the
	Specific Nitrosamines: N-nitrosonornicotine(NNN),	Tobacco and
6	4-(N-methylnitrosamino)-1-(3-pyridyl)-1-butanone(NNK),	Related Products
	N-nitrosoanatabine(NAT), N-nitrosoanabasine(NAB)	Regulations 2016
7	VOC substances: Toluene, Benzene, 1,3-Butadiene, Isoprene	(TRPR)

Checked by EVONFary Evan Fang Approved by Hom Zhang Ryan Zhang Technical Manager

Shenzhen TCT Testing Technology Co., Ltd.2101,2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Street, Bao'an District, ShenzhenHotline: 400-6611-140Tel: 86-755-27673339Fax: 86-755-27673332



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**Test Conditions:** 

### Vaping Regimens

Set vaping machine parameters according to customer requirements.

Puff Duration	3.0s±0.1s		
Puff Volume	100mL±0.3mL		
Puff Frequency	30s±0.5s		
Puff of Each Group	20		
Group Interval Time	300s±120s		
Maximum Flow	33.3mL/s±1.8mL/s		
Pressure Drop	< 1000 Pa±50 Pa		
Group	5		
Total Number of Puff	100		
Total Duration of Vaporization	300s		

## **Temperature & Humidity Conditions**

The testing will be performed in a space with relatively stable temperature and humidity environment,

Condition	Vaping Room	Preparation Room	Testing Room
Temperature (°C)	22±2	20-30	20-30
Relative Humidity (%)	60±5	30-70	30-70





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**Test Methods and Instruments:** 

$\mathcal{D}$	Test Items	Method of Aerosol Testing	Instruments
	Nicotine consistency	Afnor XP D90-300-3:2021 Annex A.3	GC-FID
		< C C C C C C C C C C C C C C C C C C C	S
	Formaldehyde		
N.	Acetaldehyde	Afnor XP D90-300-3:2021	HPLC-UV
	Acrolein	Annex A.5	HFLC-UV
	Crotonaldehyde		
	Aluminum		
	Chromium		
	Iron		
	Nickel		
	Tin	Afnor XP D90-300-3:2021	
	Lead	Annex A.6	ICP-MS
	Cadmium		
	Arsenic		
	Antimony		
	Mercury		
	Copper		X
	Diacetyl	Afnor XP D90-300-3:2021	GC-MS
	Pentane 2,3 dione	Annex A.4	
	Ethylene Glycol Diethylene Glycol	SOP-CL-090	GC-FID
	N-nitrosonornicotine(NNN)		
4-(N-r	methylnitrosamino)-1-(3-pyridyl)-1-butanone(NNK)	CORESTA Recommended	LC-MS/MS
	N-nitrosoanatabine(NAT)	Method No. 75(2022)	
	N-nitrosoanabasine(NAB)		
	Toluene		
	Benzene C	CORESTA Recommended	GC-MS
	1,3-Butadiene	Method No.70 (2019)	
	Isoprene		

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**Test Results** 

## 1. Nicotine consistency

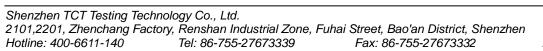
Toot Itom	CAS No.	LOD	LOQ	Result(s)	ТРМ
Test Item	CAS NO.	mg/100puffs	mg/100puffs	1	mg/100 puffs
Nicotine	54-11-5	0.00622	0.0198	7.07	450

## 2. Carbonyl Compounds Content(s)

Test Item	CAS No.	Unit	LOD	LOQ	Result(s)	Limit
Formaldehyde	50-00-0	µg/100puffs	0.252	0.836	4.21	100
Acetaldehyde	75-07-0	µg/100puffs	0.420	1.40	7.26	1600
Acrolein	107-02-8	µg/100puffs	0.392	1.31	N.D.	8
Crotonaldehyde	4170-30-3	µg/100puffs	1.43	4.54	N.D.	-
<b>( (</b>	(2G)	•				

## 3. Metals Content(s)

Test Item	CAS No.	Unit	LOD	LOQ	Result(s)	Limit
Aluminum(Al)	7429-90-5	µg/100puffs	0.025	0.080	N.D.	-
Chromium(Cr)	7440-47-3	µg/100puffs	0.0088	0.028	N.D.	1.5
Iron(Fe)	7439-89-6	µg/100puffs	0.017	0.055	N.D.	-
Nickel(Ni)	7440-02-0	µg/100puffs	0.017	0.054	N.D.	2.5
Tin(Sn)	7440-31-5	µg/100puffs	0.028	0.090	N.D.	-
Lead(Pb)	7439-92-1	µg/100puffs	0.0063	0.020	N.D.	2.5
Cadmium(Cd)	7440-43-9	µg/100puffs	0.0095	0.030	N.D.	1.5
Arsenic(As)	7440-38-2	µg/100puffs	0.010	0.032	N.D.	1
Antimony(Sb)	7440-36-0	µg/100puffs	0.0079	0.025	N.D.	10
Mercury(Hg)	7439-97-6	µg/100puffs	0.0056	0.018	N.D.	0.5
Copper(Cu)	7440-50-8	µg/100puffs	0.030	0.095	N.D.	-





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### 4. Diacetyl and Pentane 2,3 dione Content(s)

Test Item	CAS No.	Unit	LOD	LOQ	Result(s)	Limit 🔍
Diacetyl	431-03-8	µg/100puffs	3.91	12.4	N.D.	245
Pentane 2,3 dione	600-14-6	µg/100puffs	7.83	24.9	N.D.	-

## 5. Ethylene Glycol and Diethylene Glycol Content(s)

Test Item	CAS No.	Unit	LOD	LOQ	Result(s)
Ethylene Glycol	107-21-1	µg/100puffs	7.77	24.7	N.D.
Diethylene Glycol	111-46-6	µg/100puffs	9.47	30.1	N.D.
(2G)		G )	66		$(\mathcal{L}G)$

### 6. Specific Nitrosamines Content(s)

Test Item	CAS No.	Unit	LOD	LOQ	Result(s)
N-nitrosonornicotine(NNN)	80508-23-2	µg/100puffs	0.0026	0.0083	N.D.
4-(N-methylnitrosamino)-1-( 3-pyridyl)-1-butanone(NNK)	64091-91-4	µg/100puffs	0.0029	0.0092	N.D.
N-nitrosoanatabine(NAT)	887407-16-1	µg/100puffs	0.0034	0.011	N.D.
N-nitrosoanabasine(NAB)	37620-20-5	µg/100puffs	0.0014	0.0044	N.D.

## 7. VOCs Content(s)

Test Item	CAS No.	Unit	LOD	LOQ	Result(s)
Toluene	108-88-3	µg/100puffs	1.83	5.84	N.D.
Benzene	71-43-2	µg/100puffs	2.71	8.64	N.D.
1,3-Butadiene	106-99-0	µg/100puffs	3.34	10.6	N.D.
Isoprene	78-79-5	µg/100puffs	2.26	7.19	N.D.





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Note:	<ul> <li>N.D. = 1</li> <li>LOD = 1</li> <li>LOQ = 1</li> </ul>	crogram Not Detected Limit of Detec Limit of Quan	tification	<b>((</b> )				
		Total particula f the test iten	ns refer to Afno	or XP D90-30	0-3:2021			
Specimen Description: No.1 NO SAINT Mcintosh Apple Nectar Pod								

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#### Method Summary

### 1. Nicotine in Aerosol

According to Afnor XP D90-300-3:2021 Annex A.3, wipe the clamp with isopropyl alcohol. Let stand for a minute. The aerosol generated by the e-cigarette is absorbed by the Cambridge filter. Remove the Cambridge filter and place it into a centrifuge tube, add 20 mL of Isopropyl alcohol and 0.2ml internal standard stock solution. Shaken at 210 rpm for 30 min and the solution was filtered and analyzed by GC-FID.

#### 2. Carbonyl Compounds in Aerosol

According to Afnor XP D90-300-3:2021 Annex A.5, wipe the clamp with isopropyl alcohol. Let stand for a minute. The aerosol generated by the e-cigarette is absorbed by the impactor containing 40mL acidified solution of 2, 4-dinitrophenylhydrazine (DNPH) in acetonitrile. The solution was filtered and analyzed by HPLC-UV.

#### 3. Metals in Aerosol

According to Afnor XP D90-300-3:2021 Annex A.6, Connect two impactors in series with 20 mL nitric acid added in advance to collect aerosols. Set the parameters of the vaping machine and start the test. After aerosols collection is completed, the solution was filtered and analyzed by ICP-MS.

### 4. Diacetyl and Pentane 2,3 dione in Aerosol

According to Afnor XP D90-300-3:2021 Annex A.4, the aerosol generated by the e-cigarette is absorbed by the impactor containing 20mL methanol. The solution was filtered and analyzed by GC-MS.

#### 5. Ethylene Glycol and Diethylene Glycol in Aerosol

According to SOP-CL-090, wipe the clamp with isopropyl alcohol. Let stand for a minute. 20 ml of methanol was added to the impactor and placed in series with the Cambridge filter to absorb the aerosol. The Cambridge filter was removed and placed in methanol, shaken at 210 rpm for 30 min, and the solution was filtered and analyzed by GC-FID.

### 6. Specific Nitrosamines in Aerosol

According to CORESTA Recommended Method No. 75(2022), wipe the clamp with isopropyl alcohol. Let stand for a minute. The aerosol generated by the e-cigarette is absorbed by Cambridge filter, and the Cambridge filter was removed and placed in an Erlenmeyer flask, added to 20 mL of 100 mM ammonium acetate solution, shaken at 210 rpm for 60 min, filtered and analyzed by LC-MS/MS.

#### 7. VOCs in Aerosol

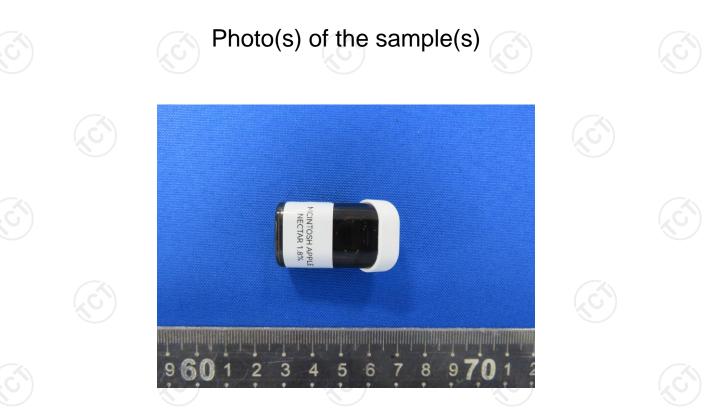
According to CORESTA Recommended Method No.70 (2019), wipe the clamp with isopropyl alcohol. Let stand for a minute. 20 ml of methanol was added to the impactor and placed in series with the Cambridge filter to absorb the aerosol. The Cambridge filter was removed and placed in methanol, shaken at 210 rpm for 30 min, and the solution was filtered and analyzed by GC-MS.



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

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