

E-Cigarette Aerosol Analysis Report

Report No. : TCT220531C906

Date : Jun. 09, 2022

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Applicant: Shenzhen Geekvape Technology Co.,Ltd
Address: 7th Floor,#3 west Block, LaoBing Building, XingYe Rd#3012, Bao'an District, Shenzhen, Guangdong, China

The following sample was submitted and identified by/on behalf of the client as:

Sample Name: GEEKVAPE T200 Mod
Model No.: GEEKVAPE T200 Mod
MOD: 5-200W
Coil: 1 : 0.15ohm FeCrAl (70-85W) 2 : 0.4ohm FeCrAl (50-60W)
Power level in testing: 1 : 85W 2 : 60W
Adjustable air inlet or not: Yes
Trade Mark: GEEKVAPE
Sample Received Date: 2022.05.31
Testing Period: 2022.05.31—2022.06.09
Test Method: Please refer to the following page(s).
Test Result(s): Please refer to the following page(s).
Remark: Test data of this report was extracted from report No. TCT220531C016.

Test Items		Test Requested
1	Carbonyl Compounds: Formaldehyde, Acetaldehyde, Acrolein, Crotonaldehyde, Butyraldehyde, Propionaldehyde, Methyl ethyl ketone, Acetone	Emission testing according to Article 20 of Tobacco Product Directive (2014/40/EU)
2	Metals: Aluminum, Chromium, Iron, Nickel, Tin, Lead, Cadmium, Arsenic, Antimony	
3	Nicotine consistency	

Checked by

Justin

Approved by

Ryan Zhang
Technical Manager

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Test Results:

Test Condition for test items except Nicotine consistency test:

With reference to the CORESTA RECOMMENDED METHOD N° 81 method parameter, Afnor standardization XP D90-300-3, International Standard ISO 20768:2018 and PD CEN/TR 17236:2018, a smoke machine was used to collect the vapor.

Puff Duration	3.0s±0.1s
Puff Volume	55mL±0.3mL
Puff Frequency	30s±0.5s
Puff of Each Group	20
Group Interval Time	300s±120s
Maximum Flow	18.5mL/s±1.0mL/s
Pressure Drop	< 50hPa
Group	5
Total Number of Puff	100
Total Duration of Vaporization	300s

The temperature and relative humidity of the test atmosphere during machine preparation and testing were kept within the following limits: temperature $\pm 2^{\circ}\text{C}$, relative humidity $\pm 5\%$

Specimen Description:

No.1 GEEKVAPE T200 Mod

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1. Carbonyl Compounds Content(s)

Test method: According to XP D90-300-3:2016, 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 reverse phase high - performance liquid chromatography and determined using a UV detector.

Test Item	CAS No.	Unit	MDL	Content(s)	
				No.1	No.2
Formaldehyde	50-00-0	µg/100puffs	0.5	2.40	13.8
Acetaldehyde	75-07-0	µg/100puffs	0.5	3.88	4.37
Acrolein	107-02-8	µg/100puffs	0.5	ND	1.75
Crotonaldehyde	4170-30-3	µg/100puffs	0.5	ND	ND
Butyraldehyde	123-72-8	µg/100puffs	0.5	ND	1.17
Propionaldehyde	123-38-6	µg/100puffs	0.5	ND	1.37
Methyl ethyl ketone	78-93-3	µg/100puffs	0.5	2.80	3.19
Acetone	67-64-1	µg/100puffs	0.5	ND	0.90

Note: - µg = Microgram
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit

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2. Metals Content(s)

Test method: According to Afnor XP D90-300-3:2016 Annex A.6, wipe the clamp with isopropyl alcohol. Let stand for a minute. 20 ml of nitric acid 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 nitric acid, shaken at 210 rpm for 30 min, and the solution was filtered and analyzed by ICP-MS.

Test Item	CAS No.	Unit	MDL	Content(s)	
				No.1	No.2
Aluminum(Al)	7429-90-5	µg/100puffs	0.01	ND	ND
Chromium(Cr)	7440-47-3	µg/100puffs	0.01	ND	ND
Iron(Fe)	7439-89-6	µg/100puffs	0.01	ND	ND
Nickel(Ni)	7440-02-0	µg/100puffs	0.01	ND	ND
Tin(Sn)	7440-31-5	µg/100puffs	0.01	ND	ND
Lead(Pb)	7439-92-1	µg/100puffs	0.01	ND	ND
Cadmium(Cd)	7440-43-9	µg/100puffs	0.01	ND	ND

- Note:
- µg = Microgram
 - ND = Not Detected (less than MDL)
 - MDL = Method Detection Limit

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3. Nicotine Consistency Test

Test Condition: With reference to the CORESTA RECOMMENDED METHOD N° 81 method parameter and Afnor standardization XP D90-300-3, a smoke machine was used to collect the vapor.

Puff Duration	3.0s±0.1s
Puff Volume	55mL±0.3mL
Puff of Each Group	20
Maximum Flow	18.5mL/s±1.0mL/s
Pressure Drop	< 50hPa

The temperature and relative humidity of the test atmosphere during machine preparation and testing were kept within the following limits: temperature $\pm 2^{\circ}\text{C}$, relative humidity $\pm 5\%$

Test method: According to Afnor XP D90-300-3:2016 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.

Sample No.	Nicotine(CAS No.:54-11-5) Contents(mg/20Puffs)						Total (mg/100puffs)
	Group 1*	Group 2	Group 3*	Group 4	Group 5*	AVG	
No.1	7.14	7.18	7.16	7.20	7.08	7.15	35.8
Deviation (%)	0.1	-	0.1	-	1.0	-	-
No.2	3.88	3.92	3.95	3.89	3.89	3.91	19.5
Deviation (%)	0.7	-	1.2	-	0.3	-	-

- Note:
- mg = milligram
 - ND = Not Detected (less than MDL)
 - MDL = Method Detection Limit = 0.05mg/20Puffs
 - 1group = 20puffs
 - * Values used for determination of consistency of nicotine emission
 - Under the conditions of the test and with reference to AFNOR XP D90-300-3, the electronic cigarette delivers a dose of nicotine at consistent levels.

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Photo(s) of the sample(s)



*** End of Report ***

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