Test Report

Application :	APV
Sample Name:	DOJO BLAST10K Refill Container(8ml)/ DOJO BLAST15000 Refill Container(8ml)
Test Category:	Emission in Aerosol

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The entrusted sample(s) is(are) provided by the applicant, and the sample(s) information is confirmed as follows:

Sample Name	DOJO BLAST10K Refill Container(8ml)/ DOJO BLAST15000 Refill Container(8ml)
Sample Specification /Type	Trand Mark: DOJO
Sample Basic Parameter	Coil: 0.7ohm, FeCrAl; Flavour: LOVE 66 ; Nicotine Conc.: 20mg/ml ;Adjustable air inlet or not: NO.

Test information:

Sample Received Date	2025.04.08
Testing Date	2025.04.08-2025.04.16
Remark	Puff Duration: 3 s, Puff Period: 30 s, Puff Volume: 55 mL, Block 50%.

Overview of test items:

No.	Test Item	Test Standard	Testing Equipment	Environmental Conditions
1	Element in aerosol	AFNOR XP D 90-300-3: 2021Annex A.6	ICP-MS (ATC-0091)	Temperature: 20±4°C Humidity: 40~70%RH
2	Carbonyl in aerosol	AFNOR XP D 90-300-3: 2021Annex A.5	HPLC-DAD (ATC-0718)	Temperature: 20±4°C Humidity: 40~70%RH
3	Nicotine in aerosol	AFNOR XP D90-300-3: 2021 Annex A.3	GC-FID (ATC-0189)	Temperature: 20±4°C Humidity: 40~70%RH
4	Diacetyl in aerosol	AFNOR XP D90-300-3: 2021 Annex A.4	GC-MS (ATC-0092)	Temperature: 20±4°C Humidity: 40~70%RH
5	TSNA in aerosol	ATC-W-0073	LC-MS/MS (ATC-0093)	Temperature: 20±4°C Humidity: 40~70%RH
6	VOC in aerosol	ATC-W-0119	GC-MS (ATC-0530)	Temperature: 20±4°C Humidity: 40~70%RH

1. Element in aerosol

Test Method

Samples are vaped using a smoking machine and a block of 100 puffs aerosol are collected by two impingers with 5% nitric acid (v/v) solution. After puffing, mix two solutions, dilute with 5% nitric acid (v/v) solution. An aliquot of extraction solution is analyzed by ICP-MS for heavy metals.

Test Result(s)

Test Item	CAS No.	Unit	LOD	LOQ	Sample Content(s)
Chromium (Cr)	7440-47-3	μg/200 puffs	0.013	0.044	0.081
Nickel (Ni)	7440-02-0	μg/200 puffs	0.013	0.044	1.669
Copper(Cu)	7440-50-8	μg/200 puffs	0.013	0.044	0.109
Arsenic (As)	7440-38-2	μg/200 puffs	0.013	0.044	＜LOQ
Lead (Pb)	7439-92-1	μg/200 puffs	0.013	0.044	ND
Cadmium (Cd)	7440-43-9	μg/200 puffs	0.013	0.044	ND
Antimonium (Sb)	7440-36-0	μg/200 puffs	0.013	0.044	ND
Mercury(Hg)	7439-97-6	μg/200 puffs	0.013	0.044	ND

Remark:

-LOD= Limit of Detection

-LOQ = Limit of Quantification

-ND= Not Detected (＜LOD)

-μg/200 puffs= Microgram per 200 Puffs

2. Carbonyl in aerosol

Test Method

Samples are vaped using a smoking machine and a block of 100 puffs aerosol are collected by two impingers with 2,4-dinitrophenylhydrazine solution. After puffing, mix two solutions, add pyridine and acetonitrile. An aliquot of the extraction is analyzed by HPLC-DAD for carbonyls.

Test Result(s)

Test Item	CAS No.	Unit	LOD	LOQ	Sample Content(s)
Formaldehyde	50-00-0	μg/200 puffs	0.300	1.250	2.325
Acetaldehyde	75-07-0	μg/200 puffs	3.000	12.500	22.985
Acrolein	107-02-8	μg/200 puffs	0.500	2.500	ND

Remark:

-LOD= Limit of Detection

-LOQ = Limit of Quantification

-ND= Not Detected (＜LOD)

-μg/200 puffs= Microgram per 200 Puffs

3. Nicotine in aerosol

Test Method

Samples are vaped using a smoking machine and a sequence of the first to fifth blocks of 20 puffs aerosol are collected by Cambridge filter pad and an impinger with 20 mL isopropanol solution containing n-heptadecane as internal standards. After puffing, the pad is sonicated with solution from impinger for 20 min. An aliquot of the extract is syringe filtered and then analyzed by GC-FID for Nicotine dose consistency.

Test Result(s)

Contents (mg/puff)					Contents (mg/puff)
Group 1	Group 2	Group 3	Group 4	Group 5	AVERAGE
0.271	0.273	0.279	0.282	0.275	0.276

Contents (mg/mg)			Contents (mg/mg)
Group 1	Group 3	Group 5	AVERAGE
0.0172	0.0170	0.0169	0.0170

Nicotine (CAS No: 54-11-5) Contents (mg/mg)							
Sample No.	Group 1	Group 2	Group 3	Group 4	Group5	LOD	LOQ
	0.0172	0.0170	0.0170	0.0171	0.0169	0.000123	0.00062
Deviation %	1.18	/	0.00	/	-0.59		

Remark:

-LOD= Limit of Detection

-LOQ = Limit of Quantification

-mg/mg= Milligram per milligram

-mg/puff= Milligram per puff

4. Diacetyl in aerosol

Test Method

Samples are vaped using a smoking machine and a block of 100 puffs aerosol are collected by an impinger with 20 mL ethanol solution. After puffing, an aliquot of extraction solution is analyzed by GC-MS for the diacetyl in aerosol.

Test Result(s)

Test Item	CAS No.	Unit	LOD	LOQ	Sample Content(s)
Diacetyl	431-03-8	μg/200 puffs	2.46	7.84	ND

Remark:

-LOD= Limit of Detection

-LOQ = Limit of Quantification

-ND= Not Detected (<LOD)

-μg/200 puffs= Microgram per 200 Puffs

5. TSNA in aerosol

Test Method

Samples are vaped using a smoking machine and a block of 50 puffs aerosol are collected by Cambridge filter pad. The aerosol in Cambridge filter pad is subsequently extracted in 0.1M ammonium formate containing internal standards for 15 min. An aliquot of extraction solution is filtered and analyzed by LC-MS/MS for NNN and NNK.

Test Result(s)

Test Item	CAS No.	Unit	LOD	LOQ	Sample Content(s)
NNN	16543-55-8	ng/puff	0.020	0.060	ND
NNK	64091-91-4	ng/puff	0.020	0.060	ND

Remark:

-LOD= Limit of Detection

-LOQ = Limit of Quantification

6. VOC in aerosol

Test Method

Samples are vaped using a smoking machine and a block of 50 puffs aerosol are collected by Cambridge filter pad with one cryogenic trap bottle with methanol. After puffing, Cambridge filter pad is discarded, and the trapping solution is quickly transferred to an autosampler vial. An aliquot of extraction solution is analyzed by GC-MS for the Acrylonitrile, Propylene oxide, Benzene and Toluene.

Test Result(s)

Test Item	CAS No.	Unit	LOD	LOQ	Sample Content(s)
Acrylonitrile	107-02-8	μg/200puffs	0.200	0.500	ND
Propylene oxide	75-56-9	μg/200puffs	0.200	0.500	ND
Benzene	71-43-2	μg/200puffs	0.200	0.500	ND
Toluene	108-88-3	μg/200puffs	0.200	0.500	ND

Remark:

-LOD= Limit of Detection

-LOQ = Limit of Quantification

Photo(s) of the sample(s):

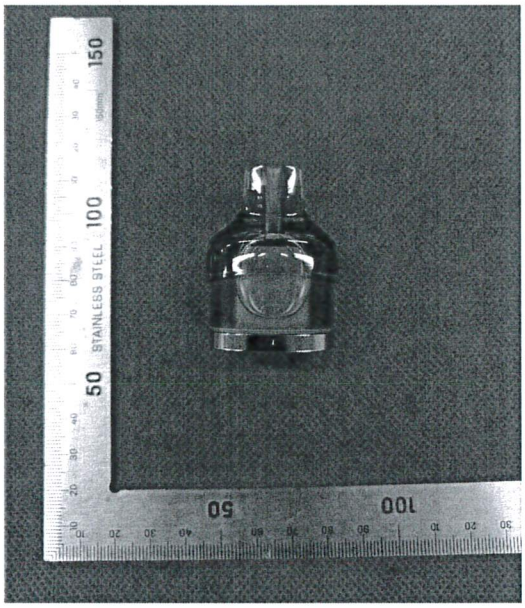

Fig1. EO20250407015118

Statement:

1. The report is invalid without the test seal.
2. The report is invalid without the signature of approver.
3. The report is invalid if it is altered or incomplete.
4. The report cannot be partially reproduced without the written approval of the laboratory (except for full copy). The copy report is invalid without the test seal.
5. If there is any objection, the application for re-test shall be submitted within 15 days after receiving the report. The sample which cannot be stored cannot ask for re-test.
6. The report is only valid for the test sample.

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