



Customer: HAVN
Extracts
Address:
125 Southbridge Rd
North Oxford MA 01537
Phone:
License #: MP281627

Certificate of Analysis

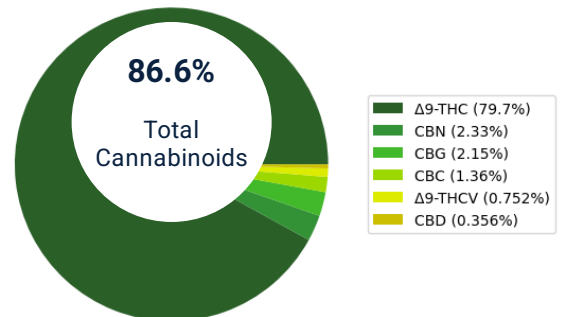


Sample ID: 50181
Sample Name: M00003963384: Bulk Vape - Disposable Orange Cream Pop
Sample Type: Vape
Received Date: 07/13/2026
Report Date: 07/17/2026
METRC ID: 1A40A03000048A9000023617
METRC Source ID: 1A40A03000048A9000023615
Client Batch ID: N/A
Sanitization Method: None
Client Sample Size: 6 each

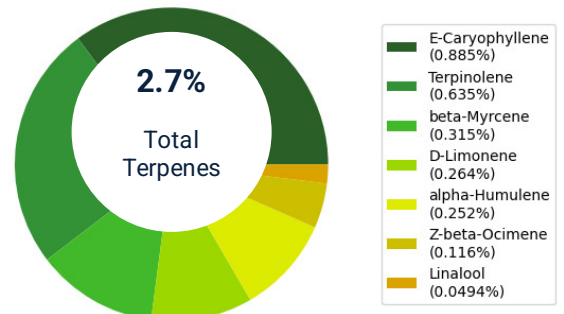
Results Summary

Cannabinoids	TESTED
07/15/2026	
Vitamin E Acetate	✓ PASS
07/14/2026	
Terpenes	TESTED
07/15/2026	
Heavy Metals	✓ PASS
07/17/2026	
Microbial Impurities	✓ PASS
07/17/2026	
Residual Solvents	✓ PASS
07/15/2026	
Mycotoxins	✓ PASS
07/15/2026	

Cannabinoid Distribution (%)



Terpene Distribution (%)



Certificate of Analysis

Cannabinoids

Date Started: 07/14/2026
Instrument: UPLC-PDA

Date Completed: 07/15/2026
Method: TP-09.001.06 & TP-09.012.07

Analyst: Lana Rivera (B144852)
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
Δ9-THC	79.7	797	0.256	1.38
CBN	2.33	23.3	0.00947	0.0691
CBG	2.15	21.5	0.00601	0.0691
CBC	1.36	13.6	0.00655	0.0553
Δ9-THCV	0.752	7.52	0.00746	0.0553
CBD	0.356	3.56	0.0107	0.138
CBDVA	ND	ND	0.00930	0.0553
CBDV	ND	ND	0.0264	0.0553
CBDA	ND	ND	0.00872	0.138
CBGA	ND	ND	0.00542	0.0691
Δ8-THCV	ND	ND	0.0135	0.0553
THCVA	ND	ND	0.00587	0.0553
CBNA	ND	ND	0.00730	0.0553
Exo-THC	ND	ND	0.0111	0.0553
Δ8-THC	ND	ND	0.0242	0.0691
CBL	ND	ND	0.0164	0.0553
THCA	ND	ND	0.0221	0.138
CBCA	ND	ND	0.0178	0.0553
Total THC	79.7	797		
Total CBD	0.356	3.56		
Total Cannabinoids	86.6	866		

Total THC = Δ9-THC + (THCA x 0.877)

Total CBD = CBD + (CBDA x 0.877)

Total Cannabinoids = Sum of all cannabinoids without THC/CBD corrections.

LOD = Limit of Detection; **LOQ** = Limit of Quantitation; **ND** = Not Detected.

Vitamin E Acetate

 **PASS**

Date Started: 07/14/2026
Instrument: HPLC-PDA

Date Completed: 07/14/2026
Method: TP-09.006.04

Analyst: Meagan Mattos (B154555)
Deviation: N/A

Analyte	Result (ppm)	LOD (ppm)	LOQ (ppm)	Status
Tocopheryl Acetate	ND	41.9	138	Pass

Certificate of Analysis

Terpenes

Date Started: 07/14/2026
Instrument: GC-MS

Date Completed: 07/15/2026
Method: TP-09.004.06

Analyst: Lana Rivera (B144852)
Deviation: N/A

Terpene	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
E-Caryophyllene	0.885	8.85	0.00607	0.0138
Terpinolene	0.635	6.35	0.00173	0.0138
beta-Myrcene	0.315	3.15	0.00232	0.0138
D-Limonene	0.264	2.64	0.00292	0.0138
alpha-Humulene	0.252	2.52	0.00299	0.0138
Z-beta-Ocimene	0.116	1.16	0.00560	0.0138
Linalool	0.0494	0.494	0.00421	0.0138
alpha-Pinene	0.0463	0.463	0.00116	0.0138
delta-3-Carene	0.0331	0.331	0.00451	0.0138
Carophyllene Oxide	0.0216	0.216	0.00313	0.0138
Eucalyptol	0.0210	0.210	0.00419	0.0138
alpha-Terpinene	0.0198	0.198	0.00424	0.0138
gamma-Terpinene	0.0142	0.142	0.00313	0.0138
alpha-Bisabolol	<LOQ	<LOQ	0.00512	0.0138
Camphene	<LOQ	<LOQ	0.00153	0.0138
beta-Pinene	ND	ND	0.00287	0.0138
E-beta-Ocimene	ND	ND	0.00572	0.0138
Isopulegol	ND	ND	0.00670	0.0138
Geraniol	ND	ND	0.00430	0.0138
Z-Nerolidol	ND	ND	0.00375	0.0138
E-Nerolidol	ND	ND	0.00315	0.0138
Guaiol	ND	ND	0.00301	0.0138
Total Terpenes	2.70	27.0		

Heavy Metals

✓ **PASS**

Date Started: 07/15/2026
Instrument: ICP-MS

Date Completed: 07/17/2026
Method: TP-09.007.04

Analyst: Meagan Mattos (B154555)
Deviation: N/A

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	<LOQ	11.4	76.8	200	Pass
Cadmium	ND	68.2	76.8	200	Pass
Lead	ND	6.27	76.8	500	Pass
Mercury	ND	5.47	38.4	100	Pass

Microbial Impurities

✓ **PASS**

Date Started: 07/13/2026
Instrument: TEMPO & Gene-Up

Date Completed: 07/17/2026
Method: TP-09.010.02 & TP-09.011.03

Analyst: Sydney Murphy (B168056)
Deviation: N/A

Microbials	Result (CFU/g)	Limit (CFU/g)	Status
Coliforms	ND	100	Pass
Bile-Tolerant Gram-Negative Bacteria	ND	100	Pass
Yeast & Mold	ND	1000	Pass
Aerobic Bacteria	ND	10000	Pass
E.coli	ND		Pass
Salmonella	ND		Pass

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Certificate of Analysis

Residual Solvents

✓ **PASS**

Date Started: 07/14/2026
Instrument: HS-GC-MS

Date Completed: 07/15/2026
Method: TP-09.005.04

Analyst: Lana Rivera (B144852)
Deviation: N/A

Residual Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Limit (ppm)	Status
n-Propane	ND	0.412	1.62	12.0	Pass
n-Butane	ND	0.177	1.62	12.0	Pass
Methanol	ND	38.5	97.3	3000	Pass
Ethylene Oxide	ND	0.648	1.30		Pass
n-Pentane	ND	26.1	97.3	5000	Pass
Ethanol	ND	18.0	97.3	5000	Pass
Ethyl Ether	ND	24.6	97.3	5000	Pass
Acetone	ND	17.6	97.3	5000	Pass
Isopropyl Alcohol	ND	22.0	97.3	5000	Pass
Acetonitrile	ND	13.7	97.3	410	Pass
Methylene Chloride	ND	0.648	1.30	600	Pass
n-Hexane	ND	26.5	97.3	290	Pass
Ethyl Acetate	ND	15.2	97.3	5000	Pass
Chloroform	ND	0.648	1.30	60.0	Pass
1,2-Dichloroethane	ND	0.648	1.30	1870	Pass
Benzene	ND	0.648	1.30		Pass
n-Heptane	ND	28.3	97.3	5000	Pass
Trichloroethylene	ND	0.648	1.30	80.0	Pass
Toluene	ND	11.2	97.3	890	Pass

Mycotoxins

✓ **PASS**

Date Started: 07/14/2026
Instrument: LC-MS/MS

Date Completed: 07/15/2026
Method: TP-09.009.06

Analyst: Lana Rivera (B144852)
Deviation: N/A

Mycotoxins	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	ND	0.784	2.59		
Aflatoxin B2	ND	0.784	2.59		
Aflatoxin G1	ND	0.784	2.59		
Aflatoxin G2	ND	0.784	2.59		
Ochratoxin A	ND	0.784	2.59		
Total Mycotoxins	ND	0.784	2.59	20.0	Pass



Yuemin Wang Kovaleff, Lab
 Manager
 07/17/2026

END OF REPORT