Smithers AMS LLC
790 Main St
Wareham, MA 02571
License #: IL281355
Phone: 508-295-2550

Certificate of Analysis



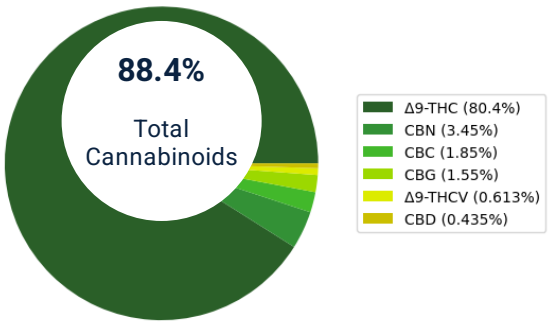
Customer: HAVN Extracts
Address: 125 Southbridge Rd North Oxford MA 01537
Phone:
License #: MP281627

Sample ID: 49815
Sample Name: M00004274127: Bulk Vape - Cartridge Hella Jelly
Sample Type: Vape
Received Date: 07/07/2026
Report Date: 07/11/2026
METRC ID: 1A40A03000048A9000023235
METRC Source ID: 1A40A03000048A9000023234
Client Batch ID: N/A
Sanitization Method: None
Client Sample Size: 6 each

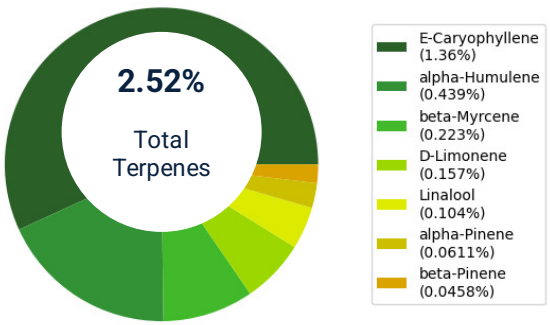
Results Summary

Cannabinoids	TESTED	
07/09/2026		
Vitamin E Acetate	☑ PASS	
07/11/2026		
Terpenes	TESTED	
07/10/2026		
Heavy Metals	☑ PASS	
07/08/2026		
Microbial Impurities	☑ PASS	
07/11/2026		
Residual Solvents	☑ PASS	
07/09/2026		
Mycotoxins	☑ PASS	
07/09/2026		

Cannabinoid Distribution (%)



Terpene Distribution (%)



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Certificate of Analysis

Cannabinoids

Date Started: 07/08/2026
Instrument: UPLC-PDA

Date Completed: 07/09/2026
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	80.4	804	0.275	1.49
CBN	3.45	34.5	0.0102	0.0743
CBC	1.85	18.5	0.00704	0.0595
CBG	1.55	15.5	0.00646	0.0743
Δ9-THCV	0.613	6.13	0.00802	0.0595
CBD	0.435	4.35	0.0115	0.149
CBDVA	ND	ND	0.0100	0.0595
CBDV	ND	ND	0.0284	0.0595
CBDA	ND	ND	0.00937	0.149
CBGA	ND	ND	0.00583	0.0743
Δ8-THCV	ND	ND	0.0145	0.0595
THCVA	ND	ND	0.00631	0.0595
CBNA	ND	ND	0.00785	0.0595
Exo-THC	ND	ND	0.0119	0.0595
Δ8-THC	ND	ND	0.0260	0.0743
CBL	ND	ND	0.0176	0.0595
THCA	ND	ND	0.0238	0.149
CBCA	ND	ND	0.0191	0.0595
Total THC	**80.4**	**804**		
Total CBD	**0.435**	**4.35**		
Total Cannabinoids	**88.4**	**884**		

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: 07/08/2026
Instrument: HPLC-PDA

Date Completed: 07/11/2026
Method: TP-09.006.04

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

Analyte	Result (ppm)	LOD (ppm)	LOQ (ppm)	Status
Tocopheryl Acetate	ND	43.4	143	Pass

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Certificate of Analysis

Terpenes

Date Started: 07/08/2026
Instrument: GC-MS

Date Completed: 07/10/2026
Method: TP-09.004.06

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

Terpene	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
E-Caryophyllene	1.36	13.6	0.00629	0.0143
alpha-Humulene	0.439	4.39	0.00309	0.0143
beta-Myrcene	0.223	2.23	0.00241	0.0143
D-Limonene	0.157	1.57	0.00302	0.0143
Linalool	0.104	1.04	0.00436	0.0143
alpha-Pinene	0.0611	0.611	0.00120	0.0143
beta-Pinene	0.0458	0.458	0.00297	0.0143
Carophyllene Oxide	0.0373	0.373	0.00324	0.0143
alpha-Bisabolol	0.0261	0.261	0.00530	0.0143
Terpinolene	0.0155	0.155	0.00179	0.0143
Z-beta-Ocimene	0.0154	0.154	0.00580	0.0143
Eucalyptol	0.0154	0.154	0.00434	0.0143
E-beta-Ocimene	<LOQ	<LOQ	0.00592	0.0143
gamma-Terpinene	<LOQ	<LOQ	0.00324	0.0143
Guaiol	<LOQ	<LOQ	0.00312	0.0143
Geraniol	<LOQ	<LOQ	0.00446	0.0143
Camphene	ND	ND	0.00158	0.0143
Isopulegol	ND	ND	0.00694	0.0143
Z-Nerolidol	ND	ND	0.00388	0.0143
E-Nerolidol	ND	ND	0.00326	0.0143
delta-3-Carene	ND	ND	0.00467	0.0143
alpha-Terpinene	ND	ND	0.00439	0.0143
Total Terpenes	**2.52**	**25.2**		

Heavy Metals

PASS

Date Started: 07/08/2026
Instrument: ICP-MS

Date Completed: 07/08/2026
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	11.5	77.6	200	Pass
Cadmium	ND	68.9	77.6	200	Pass
Lead	ND	6.34	77.6	500	Pass
Mercury	ND	5.53	38.8	100	Pass

Microbial Impurities

PASS

Date Started: 07/08/2026
Instrument: TEMPO & Gene-Up

Date Completed: 07/11/2026
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: 07/08/2026
Instrument: HS-GC-MS

Date Completed: 07/09/2026
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	0.413	1.62	12.0	Pass
n-Butane	ND	0.178	1.62	12.0	Pass
Methanol	ND	38.6	97.5	3000	Pass
Ethylene Oxide	ND	0.650	1.30		Pass
n-Pentane	ND	26.2	97.5	5000	Pass
Ethanol	ND	18.1	97.5	5000	Pass
Ethyl Ether	ND	24.6	97.5	5000	Pass
Acetone	ND	17.7	97.5	5000	Pass
Isopropyl Alcohol	ND	22.0	97.5	5000	Pass
Acetonitrile	ND	13.7	97.5	410	Pass
Methylene Chloride	ND	0.650	1.30	600	Pass
n-Hexane	ND	26.5	97.5	290	Pass
Ethyl Acetate	ND	15.3	97.5	5000	Pass
Chloroform	ND	0.650	1.30	60.0	Pass
1,2-Dichloroethane	ND	0.650	1.30	1870	Pass
Benzene	ND	0.650	1.30		Pass
n-Heptane	ND	28.4	97.5	5000	Pass
Trichloroethylene	ND	0.650	1.30	80.0	Pass
Toluene	ND	11.2	97.5	890	Pass
Total Xylenes	**ND**	**19.2**	**48.8**	**2170**	**Pass**

Mycotoxins

PASS

Date Started: 07/08/2026
Instrument: LC-MS/MS

Date Completed: 07/09/2026
Method: TP-09.009.05

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

Mycotoxins	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	ND	0.842	2.78		
Aflatoxin B2	ND	0.842	2.78		
Aflatoxin G1	ND	0.842	2.78		
Aflatoxin G2	ND	0.842	2.78		
Ochratoxin A	ND	0.842	2.78		
Total Mycotoxins	**ND**	**0.842**	**2.78**	**20.0**	**Pass**

Yuemin Wang Kovaleff, Lab Manager
07/11/2026

END OF REPORT

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