



Customer: Black Tie Group
Customer Sample ID: CBD/Delta-8 Vape Cartridge
Laboratory Number: 20H0096-01



Cannabinoid Profile

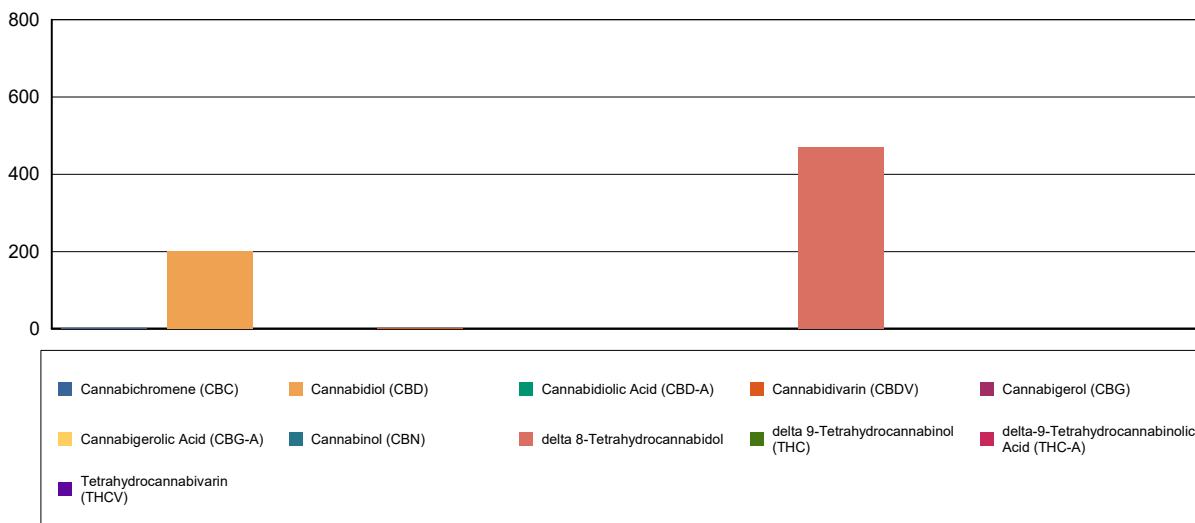
Extraction Technician: DF
Analytical Chemist: GB

Extraction Date(s)	Analysis Date(s)
8/10/2020	8/11/2020

Cannabinoids (HPLC)		Results	
	LOD (mg/g)	%	mg/g
Cannabidiarin (CBDV)		0.26	2.56
Cannabidiolic Acid (CBD-A)	<0.20		
Cannabigerolic Acid (CBG-A)	<0.20		
Cannabigerol (CBG)		0.06	0.557
Cannabidiol (CBD)		20.07	201
Tetrahydrocannabivarin (THCV)	<0.20		
Cannabinol (CBN)		0.04	0.363
delta 9-Tetrahydrocannabinol (THC)	<0.20		
delta 8-Tetrahydrocannabidol		47.06	471
Cannabichromene (CBC)		0.20	2.00
delta-9-Tetrahydrocannabinolic Acid (THC-A)	<0.20		
Cannabinoids Total		%	mg/g
Max Active THC		0.00	0.00
Max Active CBD		20.10	201.00
T.Active Cannabinoids		20.40	204.00
Total Cannabinoids		67.70	677.00

Following USDA guidelines on uncertainty, Altitude Consulting's uncertainty are calculated for CBDa and CBD at +/- 4%.
 The uncertainty for THCa and THC are +/- 5%. This implies the range for a 10% value of CBD to be 9.6-10.4%. The
 uncertainty range for a 0.30% value of THC would be 0.28-0.32%.

Cannabinoid (mg/g)



Reporting Limits will vary based on sample extraction weight used for the analysis.

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 The methods are applied in the most ethical manner following good laboratory practice guidelines. The results of this report are based solely on the sample submitted and cannot be reproduced.

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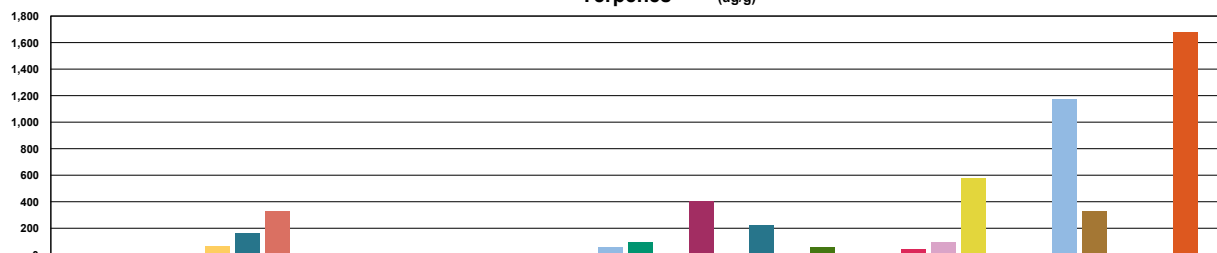
Terpene Profile

Extraction Technician: DF
 Analytical Chemist: GB

Extraction Date(s)	Analysis Date(s)
8/10/2020	8/10/2020

Terpene	Results	Terpene	Results
	ug/g		ug/g
alpha-Pinene		Isoborneol	
Camphene		Hexahydrothymol	
Sabinene		(+)-Borneol and (-)-Borneol	
beta-Myrcene	164	alpha-Terpineol	327
beta-Pinene		gamma-Terpineol	
p-Mentha-1,5-diene		Nerol	
(1S)-(+)-3-Carene		Geraniol	
alpha-Terpinene		(+)-Pulegone	
Ocimene Peak 1		Geranyl Acetate	
(R) - (+)-Limonene	53.0	alpha-Cedrene	90.8
Ocimene Peak 2		trans-Caryophyllene	399
Eucalyptol (1,8-Cineole)		alpha-Humulene	225
gamma-Terpinene		Valencene	53.4
Sabinene Hydrate		cis-Nerolidol	
Terpinolene	43.4	trans-Nerolidol	96.0
Linalool	573	Guaiol	
(+)-Fenchone and L(-)-Fenchone		(-)-Caryophyllene Oxide	1180
(1R)-Endo-(+)-Fenchyl	329	(+)-Cedrol	
(-)-Isopulegol		(-)-alpha-Bisabolol (Levomenol)	1680
Camphor and (1S)-(-)-Camphor			

Terpenes (ug/g)



- | | | | |
|------------------------------|--------------------------------|------------------------------|---------------------------------|
| alpha-Pinene | (R) - (+)-Limonene | Camphor and (1S)-(-)-Camphor | alpha-Cedrene |
| Camphene | Ocimene Peak 2 | Isoborneol | trans-Caryophyllene |
| Sabinene | Eucalyptol (1,8-Cineole) | Hexahydrothymol | alpha-Humulene |
| beta-Myrcene | gamma-Terpinene | (+)-Borneol and (-)-Borneol | Valencene |
| beta-Pinene | Sabinene Hydrate | alpha-Terpineol | cis-Nerolidol |
| beta-Pinene and beta-Myrcene | Terpinolene | gamma-Terpineol | trans-Nerolidol |
| p-Mentha-1,5-diene | Linalool | Nerol | Guaiol |
| (1S)-(+)-3-Carene | (+)-Fenchone and L(-)-Fenchone | Geraniol | (-)-Caryophyllene Oxide |
| alpha-Terpinene | (1R)-Endo-(+)-Fenchyl | (+)-Pulegone | (+)-Cedrol |
| Ocimene Peak 1 | (-)-Isopulegol | Geranyl Acetate | (-)-alpha-Bisabolol (Levomenol) |

Reporting limit is roughly 40 ug/g depending on amount extracted.

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