



APC - 2038 D8 Inf. BK E1 10.18.21

Sample ID: G1J0389-03

Matrix: Industrial Hemp

Test ID: 5020182

Source ID:

Date Sampled: 10/22/21

Date Accepted: 10/22/21

Harvest/Prod. Date: 10/18/21

Results at a Glance

Total THC : 0.2303 %

Total CBD : 12.29 %

Total CBG : 0.8778 %

delta 8-THC : 8.982 % PASS

Pesticides : PASS

Residual Solvent Analysis : PASS



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Eric Wendt
Chief Science Officer - 10/28/2021

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Sample ID: G1J0389-03

Matrix: Industrial Hemp

Test ID: 5020182

Source ID:

Date Sampled: 10/22/21

Date Accepted: 10/22/21

Harvest/Prod. Date: 10/18/21

Potency Analysis

Date/Time Extracted: 10/22/21 12:52

Analysis Method/SOP: 215

Batch Identification: 2143046

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile																				
Total THC	0.009080	0.2303	2.303	<table border="1"> <tr><td>THCA</td><td>0.3</td></tr> <tr><td>delta 8-THC</td><td>9.0</td></tr> <tr><td>CBGA</td><td>0.9</td></tr> <tr><td>CBDA</td><td>11.2</td></tr> <tr><td>CBD</td><td>2.4</td></tr> <tr><td>CBN</td><td>0.0</td></tr> <tr><td>CBG</td><td>0.0</td></tr> <tr><td>CBC</td><td>0.3</td></tr> <tr><td>CBDVA</td><td>0.0</td></tr> <tr><td>Total</td><td>24.3</td></tr> </table>	THCA	0.3	delta 8-THC	9.0	CBGA	0.9	CBDA	11.2	CBD	2.4	CBN	0.0	CBG	0.0	CBC	0.3	CBDVA	0.0	Total	24.3
THCA	0.3																							
delta 8-THC	9.0																							
CBGA	0.9																							
CBDA	11.2																							
CBD	2.4																							
CBN	0.0																							
CBG	0.0																							
CBC	0.3																							
CBDVA	0.0																							
Total	24.3																							
Total CBD	0.008300	12.29	122.9																					
Total CBG	7.900E-4	0.8778	8.778																					
THCA	5.000E-4	0.2626	2.626																					
delta 9-THC	5.000E-4	< LOQ	< LOQ																					
delta 8-THC	0.01796	8.982	89.82																					
THCV	0.005055	< LOQ	< LOQ																					
THCVA	0.001885	< LOQ	< LOQ																					
CBD	0.002000	2.431	24.31																					
CBDA	0.002000	11.25	112.5																					
CBDV	0.005000	< LOQ	< LOQ																					
CBDVA	0.001640	0.008565	0.08565																					
CBN	0.002990	0.02783	0.2783																					
CBG	7.900E-4	0.04670	0.467																					
CBGA	7.900E-4	0.9466	9.466																					
CBC	0.008965	0.3174	3.174																					

Total THC = delta 9-THC + (THCA * 0.877)

Total CBD = CBD + (CBDA * 0.877)

Total CBG = CBG + (CBGA * 0.878)

LOQ=Limit of Quantification, the lowest measurable concentration of an analyte.



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Matrix: Industrial Hemp

Test ID: 5020182

Source ID:

Date Sampled: 10/22/21

Date Accepted: 10/22/21

Harvest/Prod. Date: 10/18/21

Pesticide Analysis in ppm

Date/Time Extracted: 10/22/21 13:20

Analysis Method/SOP: 203

Analyte	Result	Action Level	LOD	LOQ	Units	Notes	Analyte	Result	Action Level	LOD	LOQ	Units	Notes
Abamectin	< LOQ	0.5		0.04	ppm		Acephate	< LOQ	0.4		0.04	ppm	
Acequinocyl	< LOQ	2		0.04	ppm		Acetamiprid	< LOQ	0.2		0.04	ppm	
Aldicarb	< LOQ	0.4		0.04	ppm		Azoxystrobin	< LOQ	0.2		0.04	ppm	
Bifenazate	< LOQ	0.2		0.04	ppm		Bifenthrin	< LOQ	0.2		0.04	ppm	
Boscalid	< LOQ	0.4		0.04	ppm		Carbaryl	< LOQ	0.2		0.04	ppm	
Carbofuran	< LOQ	0.2		0.04	ppm		Chlorantraniliprole	< LOQ	0.2		0.04	ppm	
Chlorfenapyr	< LOQ	1		0.04	ppm		Chlorpyrifos	< LOQ	0.2		0.04	ppm	
Clofentezine	< LOQ	0.2		0.04	ppm		Cyfluthrin	< LOQ	1		0.04	ppm	
Cypermethrin	< LOQ	1		0.04	ppm		Daminozide	< LOQ	1		0.04	ppm	
DDVP (Dichlorvos)	< LOQ	1		0.04	ppm		Diazinon	< LOQ	0.2		0.04	ppm	
Dimethoate	< LOQ	0.2		0.04	ppm		Ethoprophos	< LOQ	0.2		0.04	ppm	
Etofenprox	< LOQ	0.4		0.04	ppm		Etoxazole	< LOQ	0.2		0.04	ppm	
Fenoxycarb	< LOQ	0.2		0.04	ppm		Fenpyroximate	< LOQ	0.4		0.04	ppm	
Fipronil	< LOQ	0.4		0.04	ppm		Fonicamid	< LOQ	1		0.04	ppm	
Fludioxonil	< LOQ	0.4		0.04	ppm		Hexythiazox	< LOQ	1		0.04	ppm	
Imazalil	< LOQ	0.2		0.04	ppm		Imidacloprid	< LOQ	0.4		0.04	ppm	
Kresoxim-methyl	< LOQ	0.4		0.04	ppm		Malathion	< LOQ	0.2		0.04	ppm	
Metalaxyl	< LOQ	0.2		0.04	ppm		Methiocarb	< LOQ	0.2		0.04	ppm	
Methomyl	< LOQ	0.4		0.04	ppm		Methyl parathion	< LOQ	0.2		0.04	ppm	
MGK-264	< LOQ	0.2		0.04	ppm		Myclobutanil	< LOQ	0.2		0.04	ppm	
Naled	< LOQ	0.5		0.04	ppm		Oxamyl	< LOQ	1		0.04	ppm	
Paclobutrazol	< LOQ	0.4		0.04	ppm		Permethrins	< LOQ	0.2		0.04	ppm	
Phosmet	< LOQ	0.2		0.04	ppm		Piperonyl butoxide	< LOQ	2		0.1	ppm	
Prallethrin	< LOQ	0.2		0.04	ppm		Propiconazole	< LOQ	0.4		0.04	ppm	
Propoxur	< LOQ	0.2		0.04	ppm		Pyrethrins	< LOQ	1		0.1	ppm	
Pyridaben	< LOQ	0.2		0.04	ppm		Spinosad	< LOQ	0.2		0.04	ppm	
Spiromesifen	< LOQ	0.2		0.04	ppm		Spirotetramat	< LOQ	0.2		0.04	ppm	
Spiroxamine	< LOQ	0.4		0.04	ppm		Tebuconazole	< LOQ	0.4		0.04	ppm	
Thiacloprid	< LOQ	0.2		0.04	ppm		Thiamethoxam	< LOQ	0.2		0.04	ppm	
Trifloxystrobin	< LOQ	0.2		0.04	ppm								

ND - Compound not detected

Results above the Action Level fail state testing requirements and will be highlighted **Red**.



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Matrix: Industrial Hemp

Test ID: 5020182

Source ID:

Date Sampled: 10/22/21

Date Accepted: 10/22/21

Harvest/Prod. Date: 10/18/21

Residual Solvents

Date/Time Extracted: 10/22/21 13:10

Analysis Method/SOP: 205

Analyte	Result	Action Level	LOD	LOQ	Units	Notes
1,4-Dioxane	< LOQ	380		50.00	ppm	
2-Butanol	< LOQ	5000		1000	ppm	
2-Ethoxyethanol	< LOQ	160		80.00	ppm	
2-Propanol (IPA)	< LOQ	5000		1000	ppm	
Acetone	< LOQ	5000		1000	ppm	
Acetonitrile	< LOQ	410		50.00	ppm	
Benzene	< LOQ	2		1.000	ppm	
Butanes	< LOQ	5000		1000	ppm	
Cumene	< LOQ	70		35.00	ppm	
Cyclohexane	< LOQ	3880		50.00	ppm	
Dichloromethane	< LOQ	600		50.00	ppm	
Ethyl acetate	< LOQ	5000		1000	ppm	
Ethyl benzene	< LOQ	2170		35.00	ppm	
Ethyl ether	< LOQ	5000		1000	ppm	
Ethylene glycol	< LOQ	620		310.0	ppm	
Ethylene oxide	< LOQ	50		25.00	ppm	
Heptane	< LOQ	5000		1000	ppm	
Hexanes	< LOQ	290		50.00	ppm	
Isopropyl acetate	< LOQ	5000		1000	ppm	
Methanol	< LOQ	3000		1000	ppm	
Pentanes	< LOQ	5000		1000	ppm	
Propane	< LOQ	5000		1000	ppm	
Tetrahydrofuran	< LOQ	720		50.00	ppm	
Toluene	< LOQ	890		50.00	ppm	
Xylenes	< LOQ	2170		50.00	ppm	

<LOQ - Results below the Limit of Quantitation

Results above the Action Level fail state testing requirements and will be highlighted **Red**.



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Quality Control Potency

Batch: 2143046 - 215-Hemp

Blank(2143046-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.002000	%		10/22/21 12:52	10/23/21 14:37	
delta 9-THC	< LOQ	0.002000	%		10/22/21 12:52	10/23/21 14:37	
delta 8-THC	< LOQ	0.01796	%		10/22/21 12:52	10/23/21 14:37	
THCV	< LOQ	0.02022	%		10/22/21 12:52	10/23/21 14:37	
THCVA	< LOQ	0.007540	%		10/22/21 12:52	10/23/21 14:37	
CBD	< LOQ	0.002000	%		10/22/21 12:52	10/23/21 14:37	
CBDA	< LOQ	0.002000	%		10/22/21 12:52	10/23/21 14:37	
CBDV	< LOQ	0.02000	%		10/22/21 12:52	10/23/21 14:37	
CBDVA	< LOQ	0.006560	%		10/22/21 12:52	10/23/21 14:37	
CBN	< LOQ	0.01196	%		10/22/21 12:52	10/23/21 14:37	
CBG	< LOQ	0.003160	%		10/22/21 12:52	10/23/21 14:37	
CBGA	< LOQ	0.003160	%		10/22/21 12:52	10/23/21 14:37	
CBC	< LOQ	0.03586	%		10/22/21 12:52	10/23/21 14:37	

Blank(2143046-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.002000	%		10/22/21 12:52	10/24/21 01:53	
delta 9-THC	< LOQ	0.002000	%		10/22/21 12:52	10/24/21 01:53	
delta 8-THC	< LOQ	0.01796	%		10/22/21 12:52	10/24/21 01:53	
THCV	< LOQ	0.02022	%		10/22/21 12:52	10/24/21 01:53	
THCVA	< LOQ	0.007540	%		10/22/21 12:52	10/24/21 01:53	
CBD	< LOQ	0.002000	%		10/22/21 12:52	10/24/21 01:53	
CBDA	< LOQ	0.002000	%		10/22/21 12:52	10/24/21 01:53	
CBDV	< LOQ	0.02000	%		10/22/21 12:52	10/24/21 01:53	
CBDVA	< LOQ	0.006560	%		10/22/21 12:52	10/24/21 01:53	
CBN	< LOQ	0.01196	%		10/22/21 12:52	10/24/21 01:53	
CBG	< LOQ	0.003160	%		10/22/21 12:52	10/24/21 01:53	
CBGA	< LOQ	0.003160	%		10/22/21 12:52	10/24/21 01:53	
CBC	< LOQ	0.03586	%		10/22/21 12:52	10/24/21 01:53	

Reference(2143046-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	101	5.000E-4	%	80-120	10/22/21 12:52	10/23/21 14:59	
delta 9-THC	94.6	5.000E-4	%	80-120	10/22/21 12:52	10/23/21 14:59	
CBD	104	5.000E-4	%	80-120	10/22/21 12:52	10/23/21 14:59	
CBDA	102	5.000E-4	%	80-120	10/22/21 12:52	10/23/21 14:59	

Reference(2143046-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	102	5.000E-4	%	80-120	10/22/21 12:52	10/24/21 02:16	
delta 9-THC	96.8	5.000E-4	%	80-120	10/22/21 12:52	10/24/21 02:16	



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Quality Control Potency (Continued)

Batch: 2143046 - 215-Hemp (Continued)

Reference(2143046-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
CBD	106	5.000E-4	%	80-120	10/22/21 12:52	10/24/21 02:16	
CBDA	104	5.000E-4	%	80-120	10/22/21 12:52	10/24/21 02:16	

Pesticide Analysis

Batch: 2143048 - 203

Blank(2143048-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
DDVP (Dichlorvos)	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Acephate	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Acequinocyl	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Acetamiprid	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Aldicarb	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Azoxystrobin	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Bifenazate	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Bifenthrin	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Boscalid	< LOQ	0.04	ppm		10/22/21 13:20	10/22/21 20:26	
Carbaryl	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Carbofuran	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Chlorantraniliprole	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Chlorfenapyr	< LOQ	0.04	ppm		10/22/21 13:20	10/22/21 20:26	
Chlorpyrifos	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Clofentezine	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Cyfluthrin	< LOQ	0.04	ppm		10/22/21 13:20	10/22/21 20:26	
Cypermethrin	< LOQ	0.04	ppm		10/22/21 13:20	10/22/21 20:26	
Daminozide	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Diazinon	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Dimethoate	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Ethoprophos	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Etofenprox	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Etoxazole	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Fenoxycarb	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Fenpyroximate	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Fipronil	< LOQ	0.04	ppm		10/22/21 13:20	10/22/21 20:26	
Fonicamid	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Fludioxonil	< LOQ	0.04	ppm		10/22/21 13:20	10/22/21 20:26	
Hexythiazox	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Imazalil	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	



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Quality Control Pesticide Analysis (Continued)

Batch: 2143048 - 203 (Continued)

Blank(2143048-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Imidacloprid	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Kresoxim-methyl	< LOQ	0.04	ppm		10/22/21 13:20	10/22/21 20:26	
Metalaxyl	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Malathion	< LOQ	0.04	ppm		10/22/21 13:20	10/22/21 20:26	
Methiocarb	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Methomyl	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Methyl parathion	< LOQ	0.04	ppm		10/22/21 13:20	10/22/21 20:26	
Naled	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
MGK-264	< LOQ	0.04	ppm		10/22/21 13:20	10/22/21 20:26	
Oxamyl	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Myclobutanil	< LOQ	0.04	ppm		10/22/21 13:20	10/22/21 20:26	
Paclobutrazol	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Phosmet	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Permethrins	< LOQ	0.04	ppm		10/22/21 13:20	10/22/21 20:26	
Piperonyl butoxide	< LOQ	0.1	ppm		10/22/21 13:20	10/23/21 00:06	
Prallethrin	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Propiconazole	< LOQ	0.04	ppm		10/22/21 13:20	10/22/21 20:26	
Propoxur	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Pyrethrins	< LOQ	0.1	ppm		10/22/21 13:20	10/23/21 00:06	
Pyridaben	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Spinosad	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Spiromesifen	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Spirotetramat	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Spiroxamine	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Tebuconazole	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Thiacloprid	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Thiamethoxam	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	
Trifloxystrobin	< LOQ	0.04	ppm		10/22/21 13:20	10/23/21 00:06	

LCS(2143048-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	75.3	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	BSH, BSL
DDVP (Dichlorvos)	95.3	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Acephate	75.4	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Acequinocyl	86.7	0.04	ppm	52-97	10/22/21 13:20	10/23/21 00:30	
Acetamiprid	102	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Aldicarb	102	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Azoxystrobin	95.7	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Bifenazate	106	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	



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Quality Control Pesticide Analysis (Continued)

Batch: 2143048 - 203 (Continued)

LCS(2143048-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Bifenthrin	86.7	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Boscalid	96.7	0.04	ppm	70-130	10/22/21 13:20	10/23/21 09:15	
Carbaryl	98.7	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Carbofuran	99.8	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Chlorantraniliprole	116	0.04	ppm	26.2-145	10/22/21 13:20	10/23/21 00:30	
Chlorfenapyr	104	0.04	ppm	71-140	10/22/21 13:20	10/23/21 09:15	
Chlorpyrifos	109	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Clofentezine	104	0.04	ppm	14.4-62.3	10/22/21 13:20	10/23/21 00:30	BSH
Cyfluthrin	92.3	0.04	ppm	70-130	10/22/21 13:20	10/23/21 09:15	
Cypermethrin	93.4	0.04	ppm	70-130	10/22/21 13:20	10/23/21 09:15	
Daminozide	80.4	0.04	ppm	11-74.6	10/22/21 13:20	10/23/21 00:30	BSH
Diazinon	95.6	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Dimethoate	100	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Ethoprophos	104	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Etofenprox	89.9	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Etoxazole	97.7	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Fenoxycarb	106	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Fenpyroximate	91.7	0.04	ppm	50-100	10/22/21 13:20	10/23/21 00:30	
Fipronil	99.4	0.04	ppm	70-130	10/22/21 13:20	10/23/21 09:15	
Flonicamid	105	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Fludioxonil	81.3	0.04	ppm	70-130	10/22/21 13:20	10/23/21 09:15	
Hexythiazox	101	0.04	ppm	66-116	10/22/21 13:20	10/23/21 00:30	
Imazalil	92.7	0.04	ppm	58-96.4	10/22/21 13:20	10/23/21 00:30	
Imidacloprid	93.5	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Kresoxim-methyl	88.4	0.04	ppm	70-130	10/22/21 13:20	10/23/21 09:15	
Metalaxyl	106	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Malathion	96.0	0.04	ppm	70-130	10/22/21 13:20	10/23/21 09:15	
Methiocarb	91.8	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Methomyl	97.2	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Methyl parathion	89.7	0.04	ppm	61-124	10/22/21 13:20	10/23/21 09:15	
Naled	96.4	0.04	ppm	36-93	10/22/21 13:20	10/23/21 00:30	BSH
MGK-264	99.4	0.04	ppm	70-130	10/22/21 13:20	10/23/21 09:15	
Oxamyl	100	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Myclobutanil	95.4	0.04	ppm	70-130	10/22/21 13:20	10/23/21 09:15	
Paclobutrazol	96.5	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Phosmet	99.4	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Permethrins	89.8	0.04	ppm	70-130	10/22/21 13:20	10/23/21 09:15	
Piperonyl butoxide	158	0.1	ppm	57-134	10/22/21 13:20	10/23/21 00:30	BSH



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Quality Control Pesticide Analysis (Continued)

Batch: 2143048 - 203 (Continued)

LCS(2143048-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Prallethrin	94.9	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Propiconazole	93.0	0.04	ppm	67-119	10/22/21 13:20	10/23/21 09:15	
Propoxur	99.9	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Pyrethrins	49.6	0.1	ppm	40-109	10/22/21 13:20	10/23/21 00:30	
Pyridaben	98.6	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Spinosad	103	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Spiromesifen	101	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Spirotetramat	98.9	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Spiroxamine	99.8	0.04	ppm	72-153	10/22/21 13:20	10/23/21 00:30	
Tebuconazole	102	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Thiacloprid	99.3	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Thiamethoxam	94.7	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	
Trifloxystrobin	97.5	0.04	ppm	70-130	10/22/21 13:20	10/23/21 00:30	

Solvent Analysis

Batch: 2143047 - 205

Blank(2143047-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	< LOQ	1000	ppm		10/22/21 13:10	10/22/21 22:06	
Acetonitrile	< LOQ	50.00	ppm		10/22/21 13:10	10/22/21 22:06	
Benzene	< LOQ	1.000	ppm		10/22/21 13:10	10/22/21 22:06	
Butanes	< LOQ	1000	ppm		10/22/21 13:10	10/22/21 22:06	
2-Butanol	< LOQ	1000	ppm		10/22/21 13:10	10/22/21 22:06	
Cumene	< LOQ	35.00	ppm		10/22/21 13:10	10/22/21 22:06	
Cyclohexane	< LOQ	50.00	ppm		10/22/21 13:10	10/22/21 22:06	
Dichloromethane	< LOQ	50.00	ppm		10/22/21 13:10	10/22/21 22:06	
1,4-Dioxane	< LOQ	50.00	ppm		10/22/21 13:10	10/22/21 22:06	
2-Ethoxyethanol	< LOQ	80.00	ppm		10/22/21 13:10	10/22/21 22:06	
Ethyl acetate	< LOQ	1000	ppm		10/22/21 13:10	10/22/21 22:06	
Ethyl benzene	< LOQ	35.00	ppm		10/22/21 13:10	10/22/21 22:06	
Ethylene glycol	< LOQ	310.0	ppm		10/22/21 13:10	10/22/21 22:06	
Ethylene oxide	< LOQ	25.00	ppm		10/22/21 13:10	10/22/21 22:06	
Ethyl ether	< LOQ	1000	ppm		10/22/21 13:10	10/22/21 22:06	
Heptane	< LOQ	1000	ppm		10/22/21 13:10	10/22/21 22:06	
Hexanes	< LOQ	50.00	ppm		10/22/21 13:10	10/22/21 22:06	
Isopropyl acetate	< LOQ	1000	ppm		10/22/21 13:10	10/22/21 22:06	
Methanol	< LOQ	1000	ppm		10/22/21 13:10	10/22/21 22:06	
Pentanes	< LOQ	1000	ppm		10/22/21 13:10	10/22/21 22:06	



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Quality Control Solvent Analysis (Continued)

Batch: 2143047 - 205 (Continued)

Blank(2143047-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Propane	< LOQ	1000	ppm		10/22/21 13:10	10/22/21 22:06	
2-Propanol (IPA)	< LOQ	1000	ppm		10/22/21 13:10	10/22/21 22:06	
Tetrahydrofuran	< LOQ	50.00	ppm		10/22/21 13:10	10/22/21 22:06	
Toluene	< LOQ	50.00	ppm		10/22/21 13:10	10/22/21 22:06	
Xylenes	< LOQ	50.00	ppm		10/22/21 13:10	10/22/21 22:06	

LCS(2143047-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Acetone	85.5	1000	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Acetonitrile	83.3	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Benzene	86.6	1.000	ppm	66.6-119	10/22/21 13:10	10/22/21 19:00	
n-Butane	85.8	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Butanes	85.6	1000	ppm	55-130	10/22/21 13:10	10/22/21 19:00	
2-Butanol	82.8	1000	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Cumene	89.2	35.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Cyclohexane	89.2	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Dichloromethane	85.2	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
1,4-Dioxane	92.6	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
2-Ethoxyethanol	77.8	80.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Ethyl acetate	87.7	1000	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Ethyl benzene	87.6	35.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Ethylene glycol	70.8	310.0	ppm	60.3-146	10/22/21 13:10	10/22/21 19:00	
Ethylene oxide	82.6	25.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Ethyl ether	84.9	1000	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Heptane	83.3	1000	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
n-Hexane	84.8	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Hexanes	86.6	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
iso-Butane	85.3	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Isopropyl acetate	88.5	1000	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
iso-Pentane	83.7	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Methanol	81.9	1000	ppm	45-130	10/22/21 13:10	10/22/21 19:00	
2-Methylpentane	84.5	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
3-Methylpentane	84.7	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
neo-Pentane	88.1	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
n-Pentane	89.5	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Pentanes	87.1	1000	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Propane	87.3	1000	ppm	42-130	10/22/21 13:10	10/22/21 19:00	
2-Propanol (IPA)	84.4	1000	ppm	70-130	10/22/21 13:10	10/22/21 19:00	
Tetrahydrofuran	82.8	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	



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Quality Control Solvent Analysis (Continued)

Batch: 2143047 - 205 (Continued)

LCS(2143047-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Toluene	90.4	50.00	ppm	70-130	10/22/21 13:10	10/22/21 19:00	

Terpene Analysis

Batch: 2143046 - 215-Hemp

Blank(2143046-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Camphene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Camphor	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
3-Carene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
beta-Caryophyllene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Caryophyllene Oxide	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
alpha-Cedrene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Cedrol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Endo-fenchyl alcohol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Eucalyptol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Fenchone	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Geraniol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Geranyl acetate	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Guaiol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Hexahydrothymol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
alpha-Humulene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Isoborneol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Isopulegol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Limonene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Linalool	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
p-Mentha-1,5-diene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
beta-Myrcene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
trans-Nerolidol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
alpha-Pinene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
beta-Pinene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Pulegone	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Sabinene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Sabinene hydrate	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
gamma-Terpinene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
alpha-Terpinene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Terpineol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Terpinolene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	



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Quality Control Terpene Analysis (Continued)

Batch: 2143046 - 215-Hemp (Continued)

Blank(2143046-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Valencene	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
B Y-Terpineol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Nerol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
A-Terpineol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
cis-Nerolidol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Borneol	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Ocimene isomer II	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	
Ocimene isomer I	< LOQ	0.001000	%		10/22/21 12:52	10/23/21 18:18	

Reference(2143046-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
beta-Caryophyllene	82.3	2.500E-4	%	70-130	10/22/21 12:52	10/23/21 18:36	
alpha-Humulene	64.6	2.500E-4	%	70-130	10/22/21 12:52	10/23/21 18:36	
beta-Myrcene	74.8	2.500E-4	%	70-130	10/22/21 12:52	10/23/21 18:36	



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Notes and Definitions

- ATM Non-cannabis matrix related interference or suppression of Internal standard
- BLI Baseline Interference - Cannabinoid peak interference in chromatographic baseline affecting QC recovery .
- BLK Analyte detected in method blank, but not associated samples.
- BSH Blank Spike High - Blank Spike recovery above method limit. no detections in samples.
- BSL Blank Spike Low - Blank Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
- C Interference due to co-elution
- CBD Interference due to co-elution
- CV1 CBD matrix interference on GC Pest chromatography
- CV2 CCV was above acceptance criteria, Non-detect samples are considered acceptable.
- INF CCV was below acceptance criteria, sample still exceeds regulatory limit.
- ISH One or more QC falls outside acceptance criteria. Data entered into LIMS for informational purposes only.
- ISL Internal Standard concentration is above acceptance criteria.
- MSH Internal Standard concentration is below acceptance criteria.
- MSI Matrix Spike High - Matrix Spike recovery above method limits.
- MSL Matrix Spike Interference - Matrix spike source sample contains analyte hit above calibration affecting recovery accuracy in Matrix Spike.
- TPP
- U Matrix Spike Low - Matrix Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
Internal Standard concentration outside control limit due to matrix interference



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