



# Certificate of Analysis

Provided for quality control or research and development purposes.

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## MORNING DEW FARMS

1751 DRAPER VALLEY RD  
GRANTS PASS, OR 97527  
info@morningdewcanna.com  
(512) 287-9076  
Lic. #

Sample: 2311CH0309.1287

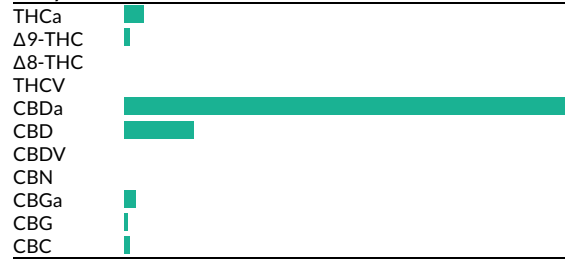
Strain: BUBBA KUSH  
Batch#: ; Batch Size: g  
Sample Received: 11/21/2023; Report Created: 11/29/2023  
Harvest/Production Date:  
Sampling: Random; Environment: Room Temp

## BUBBA KUSH

Plant, Flower - Cured, Indoor  
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



### Analyte



## Cannabinoids

1033 HPLC6 20231123-2  
11/23/2023 | METRC THC RPD Status: Not Tested ; METRC CBD RPD Status: Not Tested

Pass

0.69%

Total THC\* (Calculated  
Decarboxylated Potential)

14.20%

Total CBD\*\* (Calculated  
Decarboxylated Potential)

17.25%

Total Cannabinoids Analyzed

Moisture	Water Activity
9.4%	NR
15.0 Limit	0.655 Limit

Microbial Potential

Analyte	LOQ	Mass	
		mg/g	%
THCa	0.5	5.7	0.57
Δ9-THC	0.5	1.9	0.19
Δ8-THC	0.5	<LOQ	<LOQ
THCV	0.5	<LOQ	<LOQ
CBDa	0.5	137.5	13.75
CBD	0.5	21.4	2.14
CBDV	0.5	<LOQ	<LOQ
CBN	0.5	<LOQ	<LOQ
CBGa	0.5	3.3	0.33
CBG	0.5	1.3	0.13
CBC	0.5	1.5	0.15
<b>Total</b>		<b>172.5</b>	<b>17.25</b>

Method: CH SOP 4400  
\*Total THC = THCa \* 0.877 + d9-THC. \*\*Total CBD = CBDa \* 0.877 + CBD. LOQ = Limit of Quantification; NR = Not Reported; ND = Not Detected  
>ULOQ = above upper LOQ. ChemHistory estimates its internal laboratory uncertainty acceptance limits to be 7% for sample cannabinoid potency results.



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## Residual Solvents

Pass

1177 GCMS2 20231122-2  
11/22/2023  
METRC RPD Status: Not Tested

Analyte	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
1,4-Dioxane	100	380	<LOQ	Pass
2-Butanol	1000	5000	<LOQ	Pass
2-Ethoxy-Ethanol	100	160	<LOQ	Pass
Acetone	1000	5000	<LOQ	Pass
Acetonitrile	100	410	<LOQ	Pass
Benzene	2	2	<LOQ	Pass
Butanes	1000	5000	<LOQ	Pass
Cumene	59	70	<LOQ	Pass
Cyclohexane	100	3880	<LOQ	Pass
Dichloromethane	100	600	<LOQ	Pass
Ethyl-Acetate	1000	5000	<LOQ	Pass
Ethyl-Ether	1000	5000	<LOQ	Pass
Ethylene Glycol	100	620	<LOQ	Pass
Ethylene Oxide	15	50	<LOQ	Pass
Heptane	1000	5000	<LOQ	Pass
Hexanes	59	290	<LOQ	Pass
Isopropanol	1000	5000	<LOQ	Pass
Isopropyl-Acetate	1000	5000	<LOQ	Pass
Methanol	1000	3000	<LOQ	Pass
Pentanes	1000	5000	<LOQ	Pass
Propane	1000	5000	<LOQ	Pass
Tetrahydrofuran	100	720	<LOQ	Pass
Toluene	100	890	<LOQ	Pass
Xylenes	59	2170	<LOQ	Pass

LOQ = Limit of Quantification; PPM = Parts Per Million; NR = Not Reported; ND = Not Detected. >ULOQ = greater than upper LOQ. ULOQ = 2,500ppm for 1,4-Dioxane, 2-Ethoxy-Ethanol, Cumene, and Xylenes; 5,000ppm all other analytes. Method: EPA 5021A, Agilent 6890A GCMS with 7679A Headspace Autosampler; ORELAP ID 4057



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## BUBBA KUSH

Plant, Flower - Cured, Indoor  
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



## Pesticides

1090 LCQQQ4 20231122-2  
11/23/2023

Pass

Analyte	LOQ	Limit	Mass	Status	Analyte	LOQ	Limit	Mass	Status
	PPB	PPB	PPB			PPB	PPB	PPB	
Abamectin	400	500	<LOQ	Pass	Imazalil	100	200	<LOQ	Pass
Acephate	100	400	<LOQ	Pass	Imidacloprid	100	400	<LOQ	Pass
Acequinocyl	400	2000	<LOQ	Pass	Kresoxim Methyl	100	400	<LOQ	Pass
Acetamiprid	100	200	<LOQ	Pass	Malathion	100	200	<LOQ	Pass
Aldicarb	200	400	<LOQ	Pass	Metalaxyl	100	200	<LOQ	Pass
Azoxystrobin	100	200	<LOQ	Pass	Methiocarb	100	200	<LOQ	Pass
Bifenazate	100	200	<LOQ	Pass	Methomyl	100	400	<LOQ	Pass
Bifenthrin	100	200	<LOQ	Pass	Methyl Parathion	100	200	<LOQ	Pass
Boscalid	200	400	<LOQ	Pass	MGK-264	100	200	<LOQ	Pass
Carbaryl	100	200	<LOQ	Pass	Myclobutanil	100	200	<LOQ	Pass
Carbofuran	100	200	<LOQ	Pass	Naled	100	500	<LOQ	Pass
Chlorantraniliprole	100	200	<LOQ	Pass	Oxamyl	100	1000	<LOQ	Pass
Chlorfenapyr	400	1000	<LOQ	Pass	Paclobutrazol	100	400	<LOQ	Pass
Chlorpyrifos	100	200	<LOQ	Pass	Permethrins	100	200	<LOQ	Pass
Clofentezine	100	200	<LOQ	Pass	Phosmet	100	200	<LOQ	Pass
Cyfluthrin	400	1000	<LOQ	Pass	Piperonyl Butoxide	100	2000	<LOQ	Pass
Cypermethrin	400	1000	<LOQ	Pass	Prallethrin	100	200	<LOQ	Pass
Daminozide	400	1000	<LOQ	Pass	Propiconazole	200	400	<LOQ	Pass
Diazinon	100	200	<LOQ	Pass	Propoxur	100	200	<LOQ	Pass
Dichlorvos	200	1000	<LOQ	Pass	Pyrethrins	200	1000	<LOQ	Pass
Dimethoate	100	200	<LOQ	Pass	Pyridaben	100	200	<LOQ	Pass
Ethoprophos	100	200	<LOQ	Pass	Spinosad	100	200	<LOQ	Pass
Etofenprox	200	400	<LOQ	Pass	Spiromesifen	100	200	<LOQ	Pass
Etoxazole	100	200	<LOQ	Pass	Spirotetramat	100	200	<LOQ	Pass
Fenoxycarb	100	200	<LOQ	Pass	Spiroxamine	100	400	<LOQ	Pass
Fenpyroximate	200	400	<LOQ	Pass	Tebuconazole	100	400	<LOQ	Pass
Fipronil	100	400	<LOQ	Pass	Thiacloprid	100	200	<LOQ	Pass
Flonicamid	200	1000	<LOQ	Pass	Thiamethoxam	100	200	<LOQ	Pass
Fludioxonil	200	400	<LOQ	Pass	Trifloxystrobin	100	200	<LOQ	Pass
Hexythiazox	200	1000	<LOQ	Pass					

Method: Modified AOAC 2007.01, Triple Quad analysis; LOQ = Limit of Quantification; PPB = Parts Per Billion; ND = Not Detected; NR = Not Reported; ORELAP ID 4057. ChemHistory estimates its internal laboratory uncertainty acceptance limits to be 7% for sample pesticide results.



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Sampling: Random; Environment: Room Temp

## BUBBA KUSH

Plant, Flower - Cured, Indoor  
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



## Heavy Metals

561 ICPMS1 20231122-8  
11/22/2023 12:00

Pass

Analyte	Mass	LOQ	Limit	Status
	PPB	PPB	PPB	
Arsenic	<LOQ	40.0	200.0	Pass
Cadmium	<LOQ	40.0	200.0	Pass
Lead	<LOQ	100.0	500.0	Pass
Mercury	<LOQ	20.0	100.0	Pass

ChemHistory estimates its internal laboratory uncertainty acceptance limits to be 14.5% for sample heavy metal results.  
Method: Modified AOAC 2013.06.



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## BUBBA KUSH

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Harvest Process Lot: ; METRC Batch: ; METRC Sample:



## Microbials (3M Petrifilm)

7566003032 MA1 20231127-1  
11/27/2023

Pass

Analyte	Units	Status
	CFU/g	
Yeast & Mold	NR	NT
E. Coli	NR	NT
Coliforms	NR	NT
Aerobic Bacteria	NR	NT
Enterobacteriaceae	NR	NT

Salmonella Plant Method - CH SOP 4606, STEC Plant Method - CH SOP 4607; CN Asp, STEC, & Salm Method - CH SOP 4610

## Molecular Assays (RT-qPCR)

7566003032 MA1 20231127-1  
11/27/2023

Pass

Analyte	Result	Status
Hop-Latent Viroid	NR	NT
Cannabis Cryptic Virus	NR	NT
Lettuce Chlorosis Virus	NR	NT
Shiga Toxin E. Coli	Negative	Tested
Aspergillus	NR	NT
Seedling Sex Determination	NR	NT
Salmonella	Negative	Tested



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## BUBBA KUSH

Plant, Flower - Cured, Indoor  
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



## Mycotoxins

1090 LCQQQ4 20231122-2

Pass

Analyte	LOQ	Limit	Units	Status
	PPB	PPB	PPB	
B1	10.00		<LOQ	Tested
B2	10.00		<LOQ	Tested
G1	10.00		<LOQ	Tested
G2	10.00		<LOQ	Tested
Ochratoxin A	10.00	20.00	<LOQ	Pass
Total Aflatoxins	10.00	20.00	<LOQ	Pass

Method: Modified AOAC 2007.01, Triple Quad analysis; LOQ = Limit of Quantification; PPB = Parts Per Billion; ND = Not Detected; NR = Not Reported; ORELAP ID 4057. ChemHistory estimates its internal laboratory uncertainty acceptance limits to be 7% for sample pesticide results.



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## BUBBA KUSH

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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1033 HPLC6 20231123-2	PMB11212303F	Cannabinoids	Sample Duplicate

### QC Notes

None

Compound	Blank	LCS Result	LCS (Expected)	LOQ	Matrix Duplicate	Sample Matrix	Matrix Spike % Rec.	LCS % Rec.	Acceptance Criteria	Units
THCa	0	22.05	21.65	0.04	38.49	30.43	118.871	101.848	90%-110%	%
Δ9-THC	0	5.66	5.58	0.04	0.52	0.415	101.277	101.434	90%-110%	%
CBDa	0	2.9	2.94	0.04	0.1	0.08	100	98.639	90%-110%	%
CBD	0	0.58	0.59	0.04	0	0	100.289	98.305	90%-110%	%
Δ8-THC	0	0.01	0	0.04	0	0	107.547	ERR	90%-110%	%

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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
561 ICPMS1 20231122-8	HMLCSD11212301F	Heavy Metals	Sample Duplicate

### QC Notes

None

Heavy Metal	ICV amount	Blank amount	LCS amount	LCS Dup amount	CCV amount	LCS Expected	LCS % Recovery	LCS RPD %	Units	LCS Acceptance Limits
Arsenic	511.2	<LOQ	449.8	442.2	459.8	448.8	100.223	1.704	ppb	80-115%
Cadmium	512.2	<LOQ	467.6	471.6	476.9	459.37	101.792	0.852	ppb	80-115%
Mercury	508.4	<LOQ	472.4	485	486.3	468.11	100.916	2.632	ppb	80-115%
Lead	494.3	<LOQ	571.4	582.8	493.3	526.1	108.611	1.975	ppb	80-115%



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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1090 LCQQQ4 20231122-2	MRLCS11212302F	Mycotoxins	Sample Duplicate

### QC Notes

None

Aflatoxins	ICV amount	Blank amount	LCS amount	CCV amount	LCS Expected	LCS % Recovery	Units	LCS Acceptance Limits
B1	393.81	0	461.3	413.13	400	1.15325	ppb	60-120%
B2	381.29	0	427.37	379.24	400	1.068425	ppb	60-120%
G1	415.16	0	470.98	403.2	400	1.17745	ppb	60-120%
G2	354.78	0	434.22	413.14	400	1.08555	ppb	60-120%
Ochratoxin A	366.3	0	369.05	389.71	400	0.922625	ppb	60-120%



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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
7566003032 MA1 20231127-1	MLCS11212302F	Required Microbials	Sample Duplicate

### QC Notes

None

Analyte	Method Blank	Method LCS	Batch Blank	Batch LCS
Aspergillus	-	-	-	-
Salmonella	Absent	Present	Absent	Present
Shiga Toxin E. Coli	Absent	Present	Absent	Present

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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1090 LCQQQ4 20231122-2	MRMSD11212302F	Required Pesticides	Sample Duplicate

### QC Notes

None

Compound	Blank Result	LCS Result	Matrix Spike Result	Matrix Spike Duplicate Result	Matrix Result	Expected LCS	Units	Acceptance Criteria
Acephate	0	9369	10781	10703	0	9522.357	PPB	60%-120%
Acequinocyl	0	9581	13739	14551	0	9692.167	PPB	40%-160%
Acetamidrid	0	9545	11323	11193	0	9746.548	PPB	60%-120%
Aldicarb	0	9544	11314	11090	0	10280.79	PPB	60%-120%
Abamectin (B1a, B1b)	0	9445	9413	9334	0	9603.238	PPB	50%-150%
Azoxystrobin	0	9700	11120	11285	0	9747.286	PPB	60%-120%
Bifenazate	0	9760	11309	11369	0	9849.929	PPB	60%-120%
Bifenthrin	0	9466	20358	19363	0	10025.12	PPB	50%-150%
Boscalid	0	9972	11611	11728	0	9768.929	PPB	60%-120%
Carbaryl	0	10347	12861	12371	0	10135.14	PPB	60%-120%
Carbofuran	0	9508	11458	11227	0	9897.31	PPB	60%-120%
Chlorantraniliprole	0	9419	11666	11614	0	9782.19	PPB	60%-120%
Chlorfenapyr	0	9635	11289	11390	0	9730.19	PPB	60%-120%
Chlorpyrifos	0	9623	11458	11347	0	9783.881	PPB	60%-120%
Clofentezine	0	9485	10413	10654	0	9501.452	PPB	60%-120%
Cyfluthrin	0	9698	11144	11300	0	9671.405	PPB	50%-150%
Cypermethrin	0	9665	10488	10402	0	9709.214	PPB	50%-150%
Daminozide	0	9305	10873	10803	0	9268.524	PPB	60%-120%
Diazinon	0	9686	10594	10728	0	9590.214	PPB	60%-120%
Dichlorvos	0	9740	11691	11475	0	10034.26	PPB	60%-120%
Dimethoate	0	9357	11355	11166	0	9607.5	PPB	60%-120%
Ethoprophos	0	9355	11611	11705	0	9666.5	PPB	60%-120%
Etofenprox	0	9606	11025	11799	0	9997	PPB	50%-150%
Etoxazole	0	9549	10967	10878	0	9574.69	PPB	60%-120%
Fenoxycarb	0	9673	10765	10822	0	9937.31	PPB	60%-120%
Fenpyroximate	0	9326	11483	11584	0	9599.762	PPB	60%-120%
Fipronil	0	10248	12558	12601	0	9942.643	PPB	60%-120%
Flonicamid	0	9749	11320	11184	0	9810	PPB	60%-120%
Fludioxonil	0	9429	12380	12777	0	10013.74	PPB	50%-150%
Hexythiazox	0	9681	11744	11872	0	9718.833	PPB	60%-120%

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# Certificate of Analysis

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## MORNING DEW FARMS

1751 DRAPER VALLEY RD  
GRANTS PASS, OR 97527  
info@morningdewcanna.com  
(512) 287-9076  
Lic. #

Sample: 2311CH0309.1287

Strain: BUBBA KUSH  
Batch#: ; Batch Size: g  
Sample Received: 11/21/2023; Report Created: 11/29/2023  
Harvest/Production Date:  
Sampling: Random; Environment: Room Temp

## BUBBA KUSH

Plant, Flower - Cured, Indoor  
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1090 LCQQQ4 20231122-2	MRMSD11212302F	Required Pesticides	Sample Duplicate

### QC Notes

None

Compound	Blank Result	LCS Result	Matrix Spike Result	Matrix Spike Duplicate Result	Matrix Result	Expected LCS	Units	Acceptance Criteria
Imazalil	0	9540	11894	12096	0	9631.119	PPB	60%-120%
Imidacloprid	0	9798	10072	10075	0	9807.976	PPB	60%-120%
Kresoxim-methyl	0	9252	9602	9182	0	9736.476	PPB	60%-120%
Malathion	0	9888	12235	12514	0	9980.905	PPB	60%-120%
Metalaxyl	0	9450	10815	10798	0	9685.929	PPB	60%-120%
Methiocarb	0	10155	13054	13228	0	10182.83	PPB	60%-120%
Methomyl	0	9548	11034	10935	0	9758.095	PPB	60%-120%
Methyl-Parathion	0	10348	13190	12492	0	10093.02	PPB	50%-150%
MGK-264	0	9401	10929	10861	0	9785.167	PPB	50%-150%
Myclobutanil	0	9315	11228	11327	0	9668.31	PPB	60%-120%
Naled	0	9223	11069	11297	0	9482.31	PPB	50%-150%
Oxamyl	0	9552	11006	10894	0	9685.429	PPB	60%-120%
Paclobutrazol	0	9464	12520	12690	0	9775.976	PPB	60%-120%
Permethrin	0	9517	12334	12554	0	9893.262	PPB	50%-150%
Phosmet	0	9717	12456	12503	0	10074.29	PPB	50%-150%
Piperonyl Butoxide	0	9558	11120	11093	0	9707.333	PPB	60%-120%
Prallethrin	0	9206	9753	9822	0	9042.381	PPB	60%-120%
Propiconazole	0	9415	10142	10608	0	9533.643	PPB	60%-120%
Propoxur	0	9716	11730	11468	0	9899.595	PPB	60%-120%
Pyrethrins (Pyrethrin I)	0	5924	6520	6497	0	6310.786	PPB	60%-120%
Pyridaben	0	9629	10207	10517	0	9620.095	PPB	50%-150%
Spinosad (A&D)	0	9520	10906	11389	0	8963.286	PPB	50%-150%
Spiromesifen	0	9354	11527	11485	0	9740.214	PPB	60%-120%
Spirotetramat	0	9490	10461	10547	0	9621.357	PPB	60%-120%
Spiroxamine	0	9601	10490	10563	0	8817.595	PPB	60%-120%
Tebuconazole	0	9622	11415	11467	0	9746.071	PPB	60%-120%
Thiacloprid	0	9624	11442	11206	0	9754.024	PPB	60%-120%
Thiamethoxam	0	9630	10561	10488	0	9621.357	PPB	60%-120%
Trifloxystrobin	0	9569	11716	11681	0	9741.071	PPB	60%-120%

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## MORNING DEW FARMS

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Lic. #

Sample: 2311CH0309.1287

Strain: BUBBA KUSH  
Batch#: ; Batch Size: g  
Sample Received: 11/21/2023; Report Created: 11/29/2023  
Harvest/Production Date:  
Sampling: Random; Environment: Room Temp

## BUBBA KUSH

Plant, Flower - Cured, Indoor  
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1177 GCMS2 20231122-2	RSMS11212302	Required Solvents	Sample Duplicate

### QC Notes

None

Compound	Blank	LCS Result	Matrix Result	Matrix Duplicate Result	Matrix Spike Result	Expected LCS	Units	Acceptance Criteria
Xylenes	0	1241	0	0	1357	920.1905	PPM	60%-120%
1,4-Dioxane	0	459	0	0	513	500.6667	PPM	60%-120%
2-Butanol	0	475	0	0	519	496.4286	PPM	60%-120%
2-Ethoxy-Ethanol	0	412	0	0	507	452.6667	PPM	60%-120%
2-Methyl-Butane	0	457	0	0	486	530.5238	PPM	60%-120%
2-Methyl-Pentane	0	483	0	0	512	516.2857	PPM	60%-120%
2,2-Dimethyl-Butane	0	487	0	0	513	528.6667	PPM	60%-120%
2,3-Dimethyl-Butane	0	475	0	0	504	527.0476	PPM	60%-120%
3-Methyl-Pentane	0	486	0	0	510	520.4286	PPM	60%-120%
Acetone	0	490	12	9	564	502.8571	PPM	60%-120%
Acetonitrile	0	487	0	0	529	510.2381	PPM	60%-120%
Benzene	0	467.4	0	0	505	506.7762	PPM	60%-120%
Butane	0	407	0	0	434	538.1905	PPM	60%-120%
Cumene	0	419	0	0	465	462	PPM	60%-120%
Cyclohexane	0	500	0	0	519	516.3333	PPM	60%-120%
Dichloro-Methane	0	504	0	0	540	515.5238	PPM	60%-120%
Ethyl-Acetate	0	489	0	0	540	507.1429	PPM	60%-120%
Ethyl-Benzene	0	430	0	0	469	475.2381	PPM	60%-120%
Ethyl-Ether	0	493	0	0	530	523.381	PPM	60%-120%
Ethylene Glycol	0	309	0	0	726	336.1429	PPM	60%-120%
Ethylene Oxide	0	491	0	0	417	517.619	PPM	60%-120%
Heptane	0	491	0	0	509	519.3333	PPM	60%-120%
Isobutane	0	397	0	0	422	513.4286	PPM	60%-120%
Isopropyl-Acetate	0	469	0	0	507	509.9048	PPM	60%-120%
Isopropyl Alcohol	0	487	1230	1252	1726	513.0476	PPM	60%-120%
Methanol	0	462	0	0	501	499.6667	PPM	60%-120%
Neopentane	0	435	0	0	466	527.7619	PPM	60%-120%
n-Hexane	0	490	0	0	518	519.1429	PPM	60%-120%
Pentane	0	461	0	0	487	528.3333	PPM	60%-120%
Propane	0	363	0	0	380	497.4286	PPM	60%-120%

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Harvest/Production Date:  
Sampling: Random; Environment: Room Temp

## BUBBA KUSH

Plant, Flower - Cured, Indoor  
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1177 GCMS2 20231122-2	RSMS11212302	Required Solvents	Sample Duplicate

### QC Notes

None

Compound	Blank	LCS Result	Matrix Result	Matrix Duplicate Result	Matrix Spike Result	Expected LCS	Units	Acceptance Criteria
Tetrahydrofuran	0	478	0	0	502	506.7619	PPM	60%-120%
Toluene	0	457	0	0	492	499.0476	PPM	60%-120%

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