



Marihuana Identification and THC Quantification Test No. 18-503 Summary Report

Each sample pack consisted of three questioned samples containing plant material which participants were requested to analyze. Data were returned from 107 participants and are compiled into the following tables:

	Page
Manufacturer's Information	<u>2</u>
Summary Comments	<u>3</u>
Table 1: Examination Results (Item 1)	<u>4</u>
Table 2: Examination Results (Item 2)	<u>19</u>
Table 3: Examination Results (Item 3)	<u>35</u>
Table 4: Additional Comments	<u>50</u>

Appendix: Data Sheet

This report contains the data received from the participants in this test. Since these participants are located in many countries around the world, and it is their option how the samples are to be used (e.g., training exercise, known or blind proficiency testing, research and development of new techniques, etc.), the results compiled in the Summary Report are not intended to be an overview of the quality of work performed in the profession and cannot be interpreted as such. The Summary Comments are included for the benefit of participants to assist with maintaining or enhancing the quality of their results. These comments are not intended to reflect the general state of the art within the profession.

Participant results are reported using a randomly assigned "WebCode". This code maintains participant's anonymity, provides linking of the various report sections, and will change with every report.

Manufacturer's Information

Each sample pack consisted of three items containing 400 mg of loose plant material. Item 1 consisted of marihuana with a THC concentration of 10.3%. Item 2 consisted of marihuana with a THC concentration of 8.6%. Item 3 consisted of oregano. Concentration of THC determined by the supplier utilizing GC. Marihuana is a Schedule I controlled substance in the United States.

SAMPLE PREPARATION-

ITEMS 1 and 2 (PREPARATION): Approximately 400 mg of loose marihuana plant material was weighed out and deposited into a glassine bag, which was folded and secured with a label. The folded glassine bag was placed into a small colored bag. A gold-colored bag was used for Item 1 and a red-colored bag was used for Item 2. The bags were heat sealed and then placed into a pre-labeled envelope.

Item 3 (PREPARATION): Approximately 400 mg of loose oregano plant material was weighed out and deposited into a glassine bag which was folded and taped with a label. The folded glassine bag was placed into a small silver-colored bag. The bag was heat sealed and then placed into a pre-labeled envelope.

SAMPLE PACK ASSEMBLY: One envelope of each Item was placed into a larger pre-labeled sample pack envelope.

VERIFICATION: Laboratories that conducted predistribution analysis reported the identification of marihuana in Items 1 and 2. The following methods were used to examine the items: microscopic analysis, color tests, TLC, LC, GC-FID, and GC/MS.

Summary Comments

The purpose of this test was to allow participants to assess their proficiency in the qualitative and quantitative analysis of questioned plant material. Item 1 consisted of marihuana plant material with a THC concentration of 10.3%. Item 2 consisted of marihuana plant material with a THC concentration of 8.6%. Item 3 consisted of oregano plant material. Marihuana is a Schedule I controlled substance in the United States. (See the Manufacturer's Information for preparation details.)

Of the 107 participants that returned results for this test, all performed qualitative analysis. The most frequently reported methods of examination were microscopy followed by color tests, GC/MS, and macroscopy.

All participants reported the identification of marihuana in Item 1 and identified no marihuana in Item 3. All but one participant reported the identification of marihuana in Item 2. The remaining participant left the response blank for this question.

Seventy-two participants reported the identification of individual cannabinoids for Items 1 and 2. All but 2 participants reported testing for Tetrahydrocannabinol (THC) in both Items 1 and 2. Thirty-seven participants reported testing for Cannabinol (CBN) in Item 1, while 35 participants reported Cannabinol (CBN) in Item 2. Other cannabinoids reported among several participants include Cannabigerol (CBG), Tetrahydrocannabinolic Acid (THCA), and Cannabichromene (CBC).

Eighteen participants reported performing quantitative analysis of both Items 1 and 2 for Tetrahydrocannabinol (THC), with the most frequent quantification method being GC-FID and the second most frequent method being LC. Only 17 participants reported concentration values for the items while the remaining participant reported in the "Additional Comments" section that the concentrations were above 0.3%.

Comparative statistics are used to provide participants and accrediting bodies with the ability to evaluate their quantitative results and determine the acceptability of their values. The most common quantitative reporting method was the mean of duplicate/several determinations. The raw data provided by the participants were used to calculate both the grand mean and the standard deviation for each item. A value of ± 3 standard deviations (STD) was applied in order to determine whether data was considered extreme. If data was considered extreme, it would be marked with an "X" and excluded from these calculations. In these results, only one participant's data was marked as extreme and excluded from statistical analysis for Item 2.

Marihuana Identification - Item 1

		TA	ABLE 1A	A	
Webcode		Was marihuana (can	nabis) d	etected/identified?	
29A997	Yes	BRU3AD	Yes	MQGR2N	Yes
2TDWXG	Yes	BT3ERE	Yes	MRBFHX	Yes
2ZF72N	Yes	C82TB9	Yes	N6D72H	Yes
3MKC87	Yes	CBKVCM	Yes	N7N6VQ	Yes
3X4Q9M	Yes	DLGZ2E	Yes	NN9YLF	Yes
43VE4K	Yes	E3HHBA	Yes	NXGB2X	Yes
4X2HJZ	Yes	ELFGXC	Yes	PDHNUZ	Yes
6B49XD	Yes	EQKJFX	Yes	PU8HMP	Yes
6UWCED	Yes	ETW2Y3	Yes	Q3XQHZ	Yes
6WLJYB	Yes	FDFMUA	Yes	Q94EXM	Yes
72AM6J	Yes	FJ2JXY	Yes	Q9QQYG	Yes
7UG3AJ	Yes	FNWA4B	Yes	QDLDXW	Yes
8C9DN7	Yes	HA7G8Z	Yes	QEVLHG	Yes
8CRJLB	Yes	HJUBLH	Yes	QZTV2J	Yes
8Y6A2Q	Yes	KDELW6	Yes	RPA4PE	Yes
968LV3	Yes	L3F4YB	Yes	RQN8LQ	Yes
9C78KG	Yes	LADV86	Yes	RRYA9P	Yes
9GXF6B	Yes	LCJXFV	Yes	RVGK6U	Yes
9NZHEH	Yes	LDXMGL	Yes	T2FFHY	Yes
9RZWFE	Yes	LGYJ93	Yes	TAT88W	Yes
9YVXV7	Yes	LLQZEZ	Yes	TCZMJ9	Yes
A8TP4Z	Yes	LM2TEU	Yes	TDARRQ	Yes
AKGNU3	Yes	LNEAPM	Yes	TQHDFQ	Yes
ALMC88	Yes	LTMX24	Yes	TRFNDE	Yes
BBL7TY	Yes	LYZB9H	Yes	TVAKYY	Yes
BCGUAA	Yes	MAAD6Z	Yes	TVUF48	Yes
BPMVT7	Yes	MN9EJL	Yes	TZMFPU	Yes
BR9QB6	Yes	MNDPKY	Yes	U2T6JQ	Yes

Marihuana Identific	ation and THC Quantification	Test 18-503
	TABLE 1A - Marihuana Identification - Item 1	
Webcode	Was marihuana (cannabis) detected/identified?	
U3T6KB	Yes	
U4JJTL	Yes	
UEH8YW	Yes	
UV7HNK	Yes	
VD6WLQ	Yes	
VPZ3HA	Yes	
VR7JWT	Yes	
W4DNMK	Yes	
WVWGFF	Yes	
X6ZUCA	Yes	
XBTY6E	Yes	
XEPH8C	Yes	
XNVPMC	Yes	
XPPD4M	Yes	
XXHLQY	Yes	
Y9FL33	Yes	

Y9FL33	Yes
YCHM4Z	Yes
YVRKKB	Yes
Z6RU66	Yes
Z772QM	Yes
ZKT4BZ	Yes

ZWMKZ2	Yes			
Marihuana	Identificatio	on Respons	se Summary for Item 1	Participants: 107
Was marihua	ana (cannabis) detected/ i	dentified in this Item?	
	<u>Response</u>	<u>Total</u>		
	Yes	107		
	No	0		

ZT66X6

Yes

Cannabinoid Tested For - Item 1

Which cannabinoids were tested for in Item 1?

TABLE 1B

Webcode	What Cannabinoids were tested for in Item 1?
29A997	Cannabigerol
	Tetrahydrocannabinol
	Cannabinol
	Cannabidiol
2TDWXG	Tetrahydrocannabinol
3MKC87	Cannabigerol
	Tetrahydrocannabinol Cannabinol
	Cannabidiol
3X4Q9M	Other cannabinoids: Total THC (THC & THCA)
43VE4K	None
4X2HJZ	
TALI IJC	Tetrahydrocannabinol Cannabinol
	Cannabidiol
6B49XD	Tetrahydrocannabinol
6UWCED	Cannabigerol
	Tetrahydrocannabinol
	Tetrahydrocannabinolic Acid
	Cannabinol
	Cannabidiol
6WLJYB	None
72AM6J	None
7UG3AJ	Tetrahydrocannabinol
8C9DN7	None
8CRJLB	Cannabigerol
	Tetrahydrocannabinol
	Tetrahydrocannabinolic Acid Cannabinol
	Cannabinoi Cannabidiol
074400	
8Y6A2Q	Tetrahydrocannabinol Cannabinol
	Cannabidiol
9C78KG	Tetrahydrocannabinol
9GXF6B	None
9NZHEH	Cannabigerol
	Tetrahydrocannabinol
	Tetrahydrocannabinolic Acid
	Cannabinol
	Cannabidiol
	Other cannabinoids: Detected THC, CBN and THC-A. Tested for CBG and CBD, but not detected.

Webcode	What Cannabinoids were tested for in Item 1?
A8TP4Z	None
AKGNU3	Other cannabinoids: Cannabinoids
ALMC88	Cannabigerol
	Tetrahydrocannabinol
	Cannabinol Other cannabinoids: Cannabichromene
BBL7TY	Tetrahydrocannabinol
BPMVT7	None
BRU3AD	None
BT3ERE	
C82TB9	
СВКУСМ	Tetrahydrocannabinol
ЕЗННВА	None
ELFGXC	Tetrahydrocannabinol
EQKJFX	Cannabigerol
	Tetrahydrocannabinol Cannabinol
	Cannabidiol
ETW2Y3	Tetrahydrocannabinol
210210	Tetrahydrocannabinolic Acid
	Cannabinol
	Cannabidiol
FDFMUA	None
FJ2JXY	Tetrahydrocannabinol
FNWA4B	None
HA7G8Z	Tetrahydrocannabinol
HJUBLH	Tetrahydrocannabinol
KDELW6	None
L3F4YB	Tetrahydrocannabinol
LADV86	None
LCJXFV	Tetrahydrocannabinol
LDXMGL	Tetrahydrocannabinol Cannabinol
LGYJ93	Tetrahydrocannabinol
LLQZEZ	Cannabigerol
	Tetrahydrocannabinol Cannabinol
LM2TEU	None
LNEAPM	
	Cannabigerol
	Cannabigerol Tetrahydrocannabinol Cannabinol

Webcode	What Cannabinoids were tested for in Item 1?
LTMX24	Tetrahydrocannabinol
LYZB9H	Tetrahydrocannabinol Cannabinol Cannabidiol
MAAD6Z	Tetrahydrocannabinol
MN9EJL	None
MNDPKY	Cannabigerol Tetrahydrocannabinol Cannabinol Cannabidiol
MQGR2N	Tetrahydrocannabinol
MRBFHX	Tetrahydrocannabinol
N6D72H	None
N7N6VQ	Tetrahydrocannabinol Tetrahydrocannabinolic Acid
nn9ylf	Tetrahydrocannabinol
NXGB2X	Tetrahydrocannabinol
PDHNUZ	Cannabigerol Tetrahydrocannabinol Cannabinol Cannabidiol
PU8HMP	Tetrahydrocannabinol
Q3XQHZ	Tetrahydrocannabinol Cannabinol Cannabidiol
Q94EXM	Cannabigerol Tetrahydrocannabinol Tetrahydrocannabinolic Acid Cannabinol Cannabidiol
Q9QQYG	Tetrahydrocannabinol Cannabinol
QDLDXW	Tetrahydrocannabinol Cannabinol
QEVLHG	Tetrahydrocannabinol Cannabinol
QZTV2J	Cannabigerol Tetrahydrocannabinol Tetrahydrocannabinolic Acid Cannabinol Cannabidiol Other cannabinoids: 3 propyl delta9 thc, cannabichromene, cannabidiolic acid, cannabigerolic acid, cannabinolic acid

Webcode	What Cannabinoids were tested for in Item 1?
RPA4PE	Cannabigerol
	Tetrahydrocannabinol Cannabinol
	Cannabidiol
RRYA9P	Tetrahydrocannabinol
KKTA71	Cannabinol
rvgk6u	Tetrahydrocannabinol
T2FFHY	None
ТСZМЈ9	Cannabigerol
	Tetrahydrocannabinol
	Cannabinol Cannabidiol
TDARRO	
	Tetrahydrocannabinol
TQHDFQ	None
TRFNDE	Tetrahydrocannabinol Other cannabinoids: Cannabinoids
TVAKYY	Tetrahydrocannabinol
	Cannabinol
	Cannabidiol
TVUF48	Cannabigerol
	Tetrahydrocannabinol Tetrahydrocannabinolic Acid
	Cannabinol
	Cannabidiol
TZMFPU	Cannabigerol
	Tetrahydrocannabinol
	Cannabinol
	Cannabidiol
U2T6JQ	None
U3T6KB	Tetrahydrocannabinol Cannabinol
	Cannabinoi
U4JJTL	Cannabigerol
U4JJTL	Tetrahydrocannabinol
	Cannabinol
	Cannabidiol
UEH8YW	None
UV7HNK	Tetrahydrocannabinol
VD6WLQ	Tetrahydrocannabinol
VPZ3HA	None
VR7JWT	Cannabigerol
	Tetrahydrocannabinol
	Cannabinol Cannabidiol

Webcode	What Cannabinoids were tested for in	Item 1?
W4DNMK	None	
WVWGFF	Cannabigerol	
	Tetrahydrocannabinol	
	Tetrahydrocannabinolic Acid Cannabinol	
	Cannabidiol	
X6ZUCA	Tetrahydrocannabinol Cannabinol	
XBTY6E	Other cannabinoids: THC and CBN were dete	ected, but were not confirmed.
XEPH8C	Tetrahydrocannabinol	
XNVPMC	Tetrahydrocannabinol	
XPPD4M	Tetrahydrocannabinol	
XXHLQY	None	
Y9FL33	Tetrahydrocannabinol	
	Cannabinol	
	Cannabidiol	
YCHM4Z	Cannabigerol	
	Tetrahydrocannabinol Cannabinol	
YVRKKB	None	
Z6RU66	None	
ZKT4BZ	Cannabinol	
ZT66X6	Tetrahydrocannabinol	
ZWMKZ2	Cannabigerol	
	Tetrahydrocannabinol Cannabinol	
	Cannabidiol	
Response Su	ummary for Item 1	Participants: 72
	None:	25
	Cannabigerol (CBG):	22
	Tetrahydrocannabinol (THC):	68
	Tetrahydrocannabinolic Acid (THCA)	9
	Cannabinol (CBN):	37
	Cannabidiol (CBD):	26
	*Other:	8
The total may b	e more than the total number of participants because p	participants can report multiple cannabinoids

Examination Method of Analysis - Item 1

TABLE 1C								
Webcode	Color	GC-FID	< GC/MS	70	M _{acro}	Micro	ηc	Other
29A997			1			1		
2TDWXG	✓		✓		1	1		
2ZF72N	✓				✓	1		
3MKC87			1		1	1		
3X4Q9M		1	1			1		
43VE4K	 ✓ 		1		~	1		
4X2HJZ			1	1				
6B49XD	✓		✓		1	1		
6UWCED	✓				1	1		
6WLJYB	✓				1	1		
72AM6J	✓				1	1		
7UG3AJ						1	1	
8C9DN7	✓				~	1		
8CRJLB	✓				1	1		
8Y6A2Q							✓	
968LV3	✓				✓	1		
9C78KG	✓				✓	1		
9GXF6B	✓				✓	1	1	
9NZHEH			~	1				
9RZWFE	✓				✓	1		Duquenois-Levine Tests
9YVXV7	✓				✓	1		
A8TP4Z	✓		~		✓	1		
AKGNU3	✓				✓	1		
ALMC88			~			1		
BBL7TY			✓		✓	1		
BCGUAA	✓				✓	1	✓	
BPMVT7					✓	1		
BR9QB6	✓				✓	1		
BRU3AD	✓				 ✓ 	1		
BT3ERE		1	✓		✓	1		
C82TB9			✓			1		

		TABLE TC - Examination Method(3) - tient T						
Webcode	Color	GC-FID	GC/MS	57	M _{acro}	Micro	ηc	Other
СВКVСМ	<i>✓</i>		~		1	1		
DLGZ2E	✓				<i>✓</i>	1		
E3HHBA	✓				1	1		
Elfgxc			~			1		
EQKJFX			~					
ETW2Y3			1				1	
FDFMUA	1				1	1		
FJ2JXY			1			1		Weight Determination
FNWA4B	✓				1	1		
HA7G8Z	~				1	1	1	
HJUBLH	✓		✓		1	1		
KDELW6	✓				1	1		
L3F4YB	✓		1			1		
LADV86	✓				1	1		
LCJXFV	✓				1	1		
LDXMGL	✓		1					
LGYJ93			1	1		1		Electronic Balance
LLQZEZ			1			1		Weight/balance
LM2TEU					1	1		
LNEAPM	✓		1		1	1	✓	
LTMX24	1		1		1	1		
LYZB9H			1					
MAAD6Z			1			1		Electronic balance
MN9EJL	1				1	1		
MNDPKY			1			1		Electronic Balance
MQGR2N	1		✓		1	1		
MRBFHX	1		✓			1		
N6D72H	1				1	1		
N7N6VQ			1					
NN9YLF	1				1	1		
NXGB2X			1			1		
PDHNUZ			1		1	1		
PU8HMP			✓			1		Weight Determination

Webcode	Color	GC.FID	GC/MS	70	M _{acro}	Micro	ηc	Other
Q3XQHZ		1	1			1		
Q94EXM			1			1		
Q9QQYG	✓		1			1		
QDLDXW			~			1		
QEVLHG			~			1		
QZTV2J			~					
RPA4PE	1		1			1		
RQN8LQ	✓				1	1		
RRYA9P	1		1					
RVGK6U			1			1		
T2FFHY	1				✓	✓		
TAT88W	1				✓	1		
TCZMJ9			1		1	1		
TDARRQ	✓		1			1		
TQHDFQ	✓				1	1		
TRFNDE	1		1		✓	1		
TVAKYY		1	1			✓		
TVUF48			1		1	1		
TZMFPU			1			1		
U2T6JQ	1				✓	✓	1	
U3T6KB	✓					1	1	
U4JJTL	1		1			✓		
UEH8YW	1				✓	1		
UV7HNK	 ✓ 				1	1		
VD6WLQ	✓		~			1		
VPZ3HA	✓				✓	✓		
VR7JWT			1	1		✓		
W4DNMK						1		
WVWGFF								
X6ZUCA	 ✓ 		√					
XBTY6E	1		√		✓	1		
XEPH8C	1					1		
XNVPMC	1		1			1		

TABLE 1C - Examination Method(s) - Item 1

Webcode	Color	GC-FID	GC/MS	7C	Macro	Micro	ηc	Other
XPPD4M	✓		✓			1		
XXHLQY					1	1		Duquenois-Levine
Y9FL33			1			1		
YCHM4Z	 ✓ 		1			1	1	
YVRKKB	✓				 ✓ 	1		
Z6RU66	✓				 ✓ 	1		
Z772QM			1			1		Balance
ZKT4BZ	✓		1		1	1		
ZT66X6	✓					1	1	
ZWMKZ2	✓		✓		1	1		
Response Su	mmary for	ltem 1				-		Participants: 106

Response Sum	mary tor	Item 1						Participants: 106
Total	65	4	61	4	58	95	11	
Percent	61%	4%	57%	4%	54%	89%	10%	

Quantitative Method of Analysis - Item 1

				TABLE	1D			
Webcode	Color	GC-FID	GC/MS	7C	M _{acro}	Micro	ηc	Other
ЗМКС87		1						
3X4Q9M		1						
4X2HJZ		1						
7UG3AJ		1						
8Y6A2Q		1						
EQKJFX		1						
ETW2Y3				1				
lneapm				1				
LYZB9H			1					
N7N6VQ				1				
PDHNUZ		1						
Q94EXM		1						
QZTV2J		1						
ТСZМЈ9		1						
TVUF48		1						
WVWGFF				1				
Y9FL33		1						
ZWMKZ2		1						
Response Sum	mary for	Item 1						Participants: 18
Total	0	13	1	4	0	0	0	
Percent	0%	72%	6%	22%	0%	0%	0%	

Quantitative Results - Item 1

What is the total THC concentration in Item 1?

TABLE 1E

Item Contents and Preparation Concentration: Marihuana, 10.3% THC

Webcode	Reported Concentration	Uncertainty	K Value	Units
3MKC87	5	11.55	2	%
4X2HJZ	11	1.5	1	%
7UG3AJ	10			%
8Y6A2Q	7.9	2	2	%THC
EQKJFX	8.6			%
ETW2Y3	9,15	0,50	2	by weight %
LNEAPM	9,77	0,11		%
LYZB9H	67.9			µg/mg
N7N6VQ	11.7	5.4	4.53	% w/w
PDHNUZ	9	0,6	2	%
Q94EXM	11.6			%
QZTV2J	128	10,9	2	mg/L
ТС Z М Ј 9	7.12	4.5	2	%
TVUF48	8.5	4.5	2	%
WVWGFF	7.9			%, w/w
Y9FL33	8.31	4.5	2	%
ZWMKZ2	8	4.5	2	%

Raw Data - Item 1

List of raw data determinations in percent of total THC.

TABLE 1F

Preparation concentration: (10.3% THC)

Webcode	Raw Dat	ta (%)			Participant Mean
3MKC87	4.780	5.590			5.185
4X2HJZ	11.482	11.496			11.49
7UG3AJ	10.300	11.700	8.200		10.07
8Y6A2Q	6.760	9.140	7.780		7.893
EQKJFX	7.900	9.400	8.600		8.633
ETW2Y3	9.086	9.097	9.314		9.166
LNEAPM	9.670	9.900	9.730		9.767
LYZB9H	6.980	6.940	6.450		6.790
N7N6VQ	10.090	14.000	10.870		11.65
PDHNUZ	10.200	8.300	7.500		8.667
Q94EXM	11.600				11.60
QZTV2J	12.820	12.960			12.89
ТСΖМЈ9	6.860	6.870	7.370	7.390	7.123
TVUF48	8.740	8.740	8.220	8.220	8.480
WVWGFF	7.900				3.955
Y9FL33	7.530	7.530	9.080	9.090	8.308
ZWMKZ2	7.432	7.604	7.613	7.622	7.568
Statistical An	alysis for I	tem 1			
Grand M Standard Devia	Mean 9.080			Participants Included 16 Participants Excluded 0	Participants without Raw Data or Data that was 0 not reported in %

Reporting Procedures - Item 1

If quantitative analysis was performed, the reported concentrations are:

TABLE 1G

he mean of duplicate/several determinations. ingle sample, mean of triplicate injections he mean of duplicate/several determinations. he mean of duplicate/several determinations.	
he mean of duplicate/several determinations. he mean of duplicate/several determinations.	
he mean of duplicate/several determinations. he mean of duplicate/several determinations.	
he mean of duplicate/several determinations. he mean of duplicate/several determinations. he mean of duplicate/several determinations. he mean of duplicate/several determinations. he mean of duplicate/several determinations.	
he mean of duplicate/several determinations. he mean of duplicate/several determinations. he mean of duplicate/several determinations. he mean of duplicate/several determinations.	
he mean of duplicate/several determinations. he mean of duplicate/several determinations. he mean of duplicate/several determinations.	
he mean of duplicate/several determinations. he mean of duplicate/several determinations.	
he mean of duplicate/several determinations.	
he mean of duplicate/several determinations.	
he mean of duplicate/several determinations.	
single determination	
he mean of duplicate/several determinations.	
he mean of duplicate/several determinations.	
r Item 1	Participants: 18
	he mean of duplicate/several determinations. he mean of duplicate/several determinations. he mean of duplicate/several determinations. he mean of duplicate/several determinations. A single determination he mean of duplicate/several determinations. he mean of duplicate/several determinations. r Item 1 A single determination: 1 (5.6%)

A single determination:	1 (5.6%)
The mean of duplicate/several determinations:	16 (88.9%)
Other:	1 (5.6%)

Marihuana Identification - Item 2

		TA	BLE 2A	A	
Webcode		Was marihuana (can	nabis) d	etected/identified?	
29A997	Yes	BRU3AD	Yes	MQGR2N	Yes
2TDWXG	Yes	BT3ERE	Yes	MRBFHX	Yes
2ZF72N	Yes	C82TB9	Yes	N6D72H	Yes
3MKC87	Yes	СВКУСМ	Yes	N7N6VQ	Yes
3X4Q9M	Yes	DLGZ2E	Yes	NN9YLF	Yes
43VE4K	Yes	E3HHBA	Yes	NXGB2X	Yes
4X2HJZ	Yes	ELFGXC	Yes	PDHNUZ	Yes
6B49XD	Yes	EQKJFX	Yes	PU8HMP	Yes
6UWCED	Yes	ETW2Y3	Yes	Q3XQHZ	Yes
6WLJYB	Yes	FDFMUA	Yes	Q94EXM	Yes
72AM6J	Yes	FJ2JXY	Yes	Q9QQYG	Yes
7UG3AJ	Yes	FNWA4B	Yes	QDLDXW	Yes
8C9DN7	Yes	HA7G8Z	Yes	QEVLHG	Yes
8CRJLB	Yes	HJUBLH	Yes	QZTV2J	Yes
8Y6A2Q	Yes	KDELW6	Yes	RPA4PE	Yes
968LV3	Yes	L3F4YB	Yes	RQN8LQ	Yes
9C78KG		LADV86	Yes	RRYA9P	Yes
9GXF6B	Yes	LCJXFV	Yes	RVGK6U	Yes
9NZHEH	Yes	LDXMGL	Yes	T2FFHY	Yes
9RZWFE	Yes	LGYJ93	Yes	TAT88W	Yes
9YVXV7	Yes	LLQZEZ	Yes	TCZMJ9	Yes
A8TP4Z	Yes	LM2TEU	Yes	TDARRQ	Yes
AKGNU3	Yes	LNEAPM	Yes	TQHDFQ	Yes
ALMC88	Yes	LTMX24	Yes	TRFNDE	Yes
BBL7TY	Yes	LYZB9H	Yes	TVAKYY	Yes
BCGUAA	Yes	MAAD6Z	Yes	TVUF48	Yes
BPMVT7	Yes	MN9EJL	Yes	TZMFPU	Yes
BR9QB6	Yes	MNDPKY	Yes	U2T6JQ	Yes

TABLE 2A - Marihuana Identification - Item 2

Webcode		Was marihuana (cannabis) detected/identified?	
U3T6KB	Yes		
U4JJTL	Yes		
UEH8YW	Yes		
UV7HNK	Yes		
VD6WLQ	Yes		
VPZ3HA	Yes		
VR7JWT	Yes		
W4DNMK	Yes		
WVWGFF	Yes		
X6ZUCA	Yes		
XBTY6E	Yes		
XEPH8C	Yes		
XNVPMC	Yes		
XPPD4M	Yes		
XXHLQY	Yes		
Y9FL33	Yes		
YCHM4Z	Yes		
YVRKKB	Yes		
Z6RU66	Yes		
Z772QM	Yes		
ZKT4BZ	Yes		
ZT66X6	Yes		
ZWMKZ2	Yes		
		on Response Summary for Item 2 Participants: 107	7
vvas marihu	<u>Response</u> Yes	s) detected/ identified in this Item? <u>Total</u> 106	
	No	0	

Cannabinoid Tested For - Item 2

Which cannabinoids were tested for in Item 2?

TABLE 2B

Webcode	What Cannabinoids were tested for in Item 2?
29A997	Cannabigerol
	Tetrahydrocannabinol
	Cannabinol
	Cannabidiol
2TDWXG	Tetrahydrocannabinol
3MKC87	Cannabigerol
	Tetrahydrocannabinol Cannabinol
	Cannabidiol
3X4Q9M	Other cannabinoids: Total THC (THC & THCA)
43VE4K	None
4X2HJZ	Tetrahydrocannabinol
	Cannabinol
	Cannabidiol
6B49XD	Tetrahydrocannabinol
6UWCED	Cannabigerol
	Tetrahydrocannabinol
	Tetrahydrocannabinolic Acid Cannabinol
	Cannabidiol
6WLJYB	None
72AM6J	None
7UG3AJ	Tetrahydrocannabinol
8C9DN7	None
8CRJLB	Cannabigerol
0 01020	Tetrahydrocannabinol
	Tetrahydrocannabinolic Acid
	Cannabinol
	Cannabidiol
8Y6A2Q	Tetrahydrocannabinol Cannabinol
	Cannabinoi Cannabidiol
9C78KG	Tetrahydrocannabinol
9GXF6B	None
9NZHEH	Cannabigerol
71NZELLE	Tetrahydrocannabinol
	Tetrahydrocannabinolic Acid
	Cannabinol
	Cannabidiol
	Other cannabinoids: Detected THC, CBD, CBN and THC-A. Tested for CBG, but not detected.

ABTP4Z None AKGNU3 Other connabinoids: Cannabinoids ALMC88 Cannabigerol Tetrahydrocannabinol Cannabidel BBL7TY Tetrahydrocannabinol BBL7TY Tetrahydrocannabinol BBU3AD None BRU3AD None BRU3AD None BRU3AD None BRU4 Tetrahydrocannabinol C62TB9 Tetrahydrocannabinol C62TB4 Tetrahydrocannabinol C62TB5 Tetrahydrocannabinol C62TB7 Tetrahydrocannabinol C62TB7 Tetrahydrocannabinol CBNCM Tetrahydrocannabinol EGRUG Tetrahydrocannabinol Cannabigerol Tetrahydrocannabinol Cannabidel Cannabidel ETW2Y3 Cannabidel ETW2Y3 Cannabidel EDFMUA None FDFMUA None F12JXY Tetrahydrocannabinol FNVA4B None S1474S Tetrahydrocannabinol FNVA4B None S1474S Tetrahydrocannabinol LADV86 None S1474S Tetrahydrocannabinol LADV86 None S1474S	Webcode	What Cannabinoids were tested for in Item 2?
ALMC88 Cannabigerol Tetrahydrocannabinol Cannabidol Cannabidol BBU7TY Tetrahydrocannabinol BRU3AD None BRU3AD None BRU3AD None BRU3AD Tetrahydrocannabinol C82TB9 Tetrahydrocannabinol C82TB9 Tetrahydrocannabinol C82TB9 Tetrahydrocannabinol CBKVCM Tetrahydrocannabinol E3HHBA None ELFGXC Tetrahydrocannabinol Cannabidiol EGW/FX Cannabigerol Tetrahydrocannabinol Cannabidiol ETW2Y3 Cannabigerol Tetrahydrocannabinol Cannabidiol EDFMUA None FJ2JXY Tetrahydrocannabinol FDFMUA None HA7G8Z Tetrahydrocannabinol HUBLH Tetrahydrocannabinol KDELW6 None HA7G8Z Tetrahydrocannabinol KDELW6 None L3F4YB Tetrahydrocannabinol Cannabidol Connabidol Cannabidol ETW433 Tetrahydrocannabinol KDELW6 None L3F4YB Tetrahydrocannabinol LCJKFV Tetrahydrocannabinol LCJKFV Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LCJKFV Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LCJKFV Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LCJKFV Tetrahydrocannabinol LCJKFV Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LCJKFV Tetrahydrocannabinol LCJKFV Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol	A8TP4Z	None
Tetrahydrocannabinol Cannabidiol BBL7TY Tetrahydrocannabinol BPWT7 None BRU3AD None BT3ERE Tetrahydrocannabinol C82TB9 Tetrahydrocannabinol C82TB9 Tetrahydrocannabinol ELFGXC Tetrahydrocannabinol ELFGXC Tetrahydrocannabinol EQRUFX Cannabigerol Cannabidol Cannabidol Cannabidol Cannabinol Cannabinol Cannabinol Cannabidol ETW2Y3 Cannabinol Cannabinol Cannabidol ETWAY3 Cannabinol Cannabidol Cannabidol Cannabidol Cannabidol Cannabidol Cannabidol Cannabidol FIDEMUA None F12JXY Tetrahydrocannabinol KDELW6	AKGNU3	Other cannabinoids: Cannabinoids
CannabidolBBL7TYTetrahydrocannabinolBPWUT7NoneBRU3ADNoneBT3ERETetrahydrocannabinolC82TB9TetrahydrocannabinolC82TB7TetrahydrocannabinolC82TB7TetrahydrocannabinolEIFGXCTetrahydrocannabinolEIFGXCTetrahydrocannabinolEIFGXCTetrahydrocannabinolEQKJFXCannabigerolEQKJFXCannabigerolCannabidolCannabinolCannabidolCannabinolCannabidolCannabinolCannabidolCannabinolCannabidolCannabinolFIZJXYTetrahydrocannabinolFIZJXYTetrahydrocannabinolHA7G8ZTetrahydrocannabinolHUBLHTetrahydrocannabinolKDELW6NoneL3F4YBTetrahydrocannabinolL0XKVTetrahydrocannabinolL0XMGLTetrahydrocannabinolCannabidolCannabinolL0XMGLTetrahydrocannabinolL0XMGLTetrahydrocannabinolL0XMGLTetrahydrocannabinolL0X	ALMC88	Cannabigerol
CannabidiolBBL/TYTetrahydrocannabinolBPWNT7NoneBRU3ADNoneBT3ERETetrahydrocannabinolC82TB9TetrahydrocannabinolCBKVCMTetrahydrocannabinolCBKVCMTetrahydrocannabinolE3HHBANoneEIFGXCTetrahydrocannabinolEQKJFXCannabigerolCannabigerolCannabidolCannabidolCannabidolETW2Y3CannabigerolCannabidolCannabidolETW2Y3CannabigerolCannabidolCannabidolFDFMUANoneFJ2JXYTetrahydrocannabinolFJ2JXYTetrahydrocannabinolFMX4BNoneHJ768ZTetrahydrocannabinolFJ2JXYTetrahydrocannabinolFJ2JXYTetrahydrocannabinolKDELW6NoneLJ2FVTetrahydrocannabinolKDELW6NoneLJ2FVTetrahydrocannabinolKDELW6NoneLJ2FVTetrahydrocannabinolLAUG8ZTetrahydrocannabinolLDW6ANoneLJ2FVTetrahydrocannabinolLDW6NoneLJ2FVTetrahydrocannabinolLDW6LTetrahydrocannabinolLDW3GITetrahydrocannabinolLDW6LTetrahydrocannabinolLAUV82TetrahydrocannabinolLDW6LTetrahydrocannabinolLDW6LTetrahydrocannabinolLDW6LTetrahydrocannabinolLDW6LTetrahydrocannabinol		
BBL/TY Tetrahydrocannabinol BP/NVT7 None BRU3AD None BT3ERE Tetrahydrocannabinol C82TB9 Tetrahydrocannabinol CBVC/M Tetrahydrocannabinol ESHHBA None ELFGXC Tetrahydrocannabinol EQKJFX Cannabigerol Tetrahydrocannabinol Cannabidol Cannabidol Cannabidol ETV2Y3 Cannabidol Cannabidol Cannabidol ETV2Y3 Cannabinol cannabinol Cannabidol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Cannabidol FDFMUA None F12JXY Tetrahydrocannabinol FNWA4B None HA7G8Z Tetrahydrocannabinol KDELW6 None L3F4YB Tetrahydrocannabinol LAFVB4 None L3F4YB Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol		
BPMVT7 None BRU3AD None BT3ERE Tetrahydrocannabinol C82TB9 Tetrahydrocannabinol CBKVCM Tetrahydrocannabinol E3HHBA None ELFGXC Tetrahydrocannabinol EQKJFX Cannabigerol Tetrahydrocannabinol Cannabidiol ETW2Y3 Cannabigerol Tetrahydrocannabinol Cannabidiol ETW2Y3 Cannabigerol Tetrahydrocannabinol Cannabidiol FDFMUA None F12JXY Tetrahydrocannabinol FNWA4B None HA7G8Z Tetrahydrocannabinol L3F4YB Tetrahydrocannabinol KDELW6 None L3F4YB Tetrahydrocannabinol LA7G8Z Tetrahydrocannabinol LDWG4 None L3F4YB Tetrahydrocannabinol LA7W6 None L3F4YB Tetrahydrocannabinol LDWG4 None L3F4YB Tetrahydrocannabinol LDWG4 None L3F4YB Tetrahydro		
BRU3AD None BT3ERE Tetrahydrocannabinol C82TB9 Tetrahydrocannabinol CBKVCM Tetrahydrocannabinol E3HHBA None ELFGXC Tetrahydrocannabinol EQKJFX Cannabigerol Tetrahydrocannabinol Cannabinol Cannabidiol Cannabidiol ETW2Y3 Cannabigerol Tetrahydrocannabinol Cannabidiol Cannabidiol Tetrahydrocannabinol Cannabidiol Cannabidiol FDFMUA None FDFMUA None HA7G8Z Tetrahydrocannabinol KDELW6 None HA7G8Z Tetrahydrocannabinol KDELW6 None LGXFV Tetrahydrocannabinol KDELW6 None LGXFV Tetrahydrocannabinol LDWGL Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol		
BT3ERE Tetrahydrocannabinol C82TB9 Tetrahydrocannabinol CBKVCM Tetrahydrocannabinol E3HHBA None ELFGXC Tetrahydrocannabinol EQKJFX Cannabigerol Tetrahydrocannabinol Cannabinol Cannabidiol Cannabidiol ETW2Y3 Cannabigerol Tetrahydrocannabinol Cannabidiol ETW2Y3 Cannabinol Cannabidiol Cannabinol Cannabinol Cannabinol FDFMUA None HA768Z Tetrahydrocannabinol HJUBLH Tetrahydrocannabinol HJUBLH Tetrahydrocannabinol KDELW6 None L3F4YB Tetrahydrocannabinol LDW6L None LDXMGL Tetrahydrocannabinol <t< td=""><td></td><td></td></t<>		
C82TB9 Tetrahydrocannabinol CBKVCM Tetrahydrocannabinol E3HHBA None ELFGXC Tetrahydrocannabinol EQKJFX Cannabigerol Tetrahydrocannabinol Cannabinol Cannabinol Cannabinol Cannabidol Cannabinol Cannabidol Cannabinol Cannabidol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Cannabidol Cannabinol Cannabidol Cannabinol Cannabidol Cannabinol Cannabinol Cannabinol Cannabinol Cannabinol FIJUXY Tetrahydrocannabinol FIVWAB None HA7G8Z Tetrahydrocannabinol HJUBLH Tetrahydrocannabinol KDELW6 None L3F4YB Tetrahydrocannabinol LADV86 None LQXFV Tetrahydrocannabinol LADV86 None LQXFV Tetrahydrocannabinol Cannabinol Cannabinol </td <td></td> <td></td>		
CBKVCM Tetrahydrocannabinol E3HHBA None ELFGXC Tetrahydrocannabinol EQKJFX Cannabigerol Tetrahydrocannabinol Cannabidol Cannabidiol Cannabidiol ETW2Y3 Cannabidol Tetrahydrocannabinol Cannabidol Cannabidiol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Cannabidiol Cannabidol FDFMUA None FJ2JXY Tetrahydrocannabinol FNWA4B None HJUBLH Tetrahydrocannabinol HJUBLH Tetrahydrocannabinol KDELW6 None L3F4YB Tetrahydrocannabinol LADV86 None LJXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LADV86 None LQXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol Cannabidiol <		
E3HHBA None ELFGXC Tetrahydrocannabinol EQKJFX Cannabigerol Tetrahydrocannabinol Cannabidiol ETW2Y3 Cannabigerol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Cannabidiol Cannabidiol FDFMUA None FJ2JXY Tetrahydrocannabinol FNWA4B None HA7G8Z Tetrahydrocannabinol HUBLH Tetrahydrocannabinol KDELW6 None L3F4YB Tetrahydrocannabinol LADV86 None LQXFV Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQZEZ Cannabidiol LQZEZ Cannabidiol		
ELFGXC Tetrahydrocannabinol EQKJFX Cannabigerol Tetrahydrocannabinol Cannabidol Cannabidol Cannabidol ETW2Y3 Cannabidol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Cannabidol Cannabidol FDFMUA None FJ2JXY Tetrahydrocannabinol FNWA4B None HA7G8Z Tetrahydrocannabinol KDELW6 None L3F4YB Tetrahydrocannabinol LADV86 None LQXFV Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQZEZ Cannabidol Cannabidol Cannabinol Cannabidol Cannabinol Cannabidol Cannabinol Cannabidol Cannabidol		
EQKJFX Cannabigerol Tetrahydrocannabinol Cannabidiol Cannabidiol Cannabidiol ETW2Y3 Cannabigerol Tetrahydrocannabinol Tetrahydrocannabinol Tetrahydrocannabinol Cannabidiol FDFMUA None FJ2JXY Tetrahydrocannabinol FNWA4B None HA7G8Z Tetrahydrocannabinol HJUBLH Tetrahydrocannabinol KDELW6 None L3F4YB Tetrahydrocannabinol LADV86 None LCJXFV Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LQXFS Cannabidiol LGXFY Tetrahydrocannabinol LGXFY Tetrahydrocannabinol LGXFS		
Tetrahydrocannabinol CannabidiolETW2Y3Cannabigerol Tetrahydrocannabinol CannabidiolETW2Y3Cannabigerol Tetrahydrocannabinolic Acid CannabidiolFDFMUANoneFJZJXYTetrahydrocannabinol CannabinolFNWA4BNoneHA7G8ZTetrahydrocannabinolHJUBLHTetrahydrocannabinolKDELW6NoneI3F4YBTetrahydrocannabinolLQXFVTetrahydrocannabinolLDW66NoneLGXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLGYJ93TetrahydrocannabinolLIQZEZCannabigrolLIQZEZCannabigrolCannabidiolCannabidiolCannabidiolCannabidiol		
Cannabinol CannabidiolETW2Y3Cannabigerol Tetrahydrocannabinol Cannabinol Cannabinol CannabidolFDFMUANoneFJ2JXYTetrahydrocannabinolFNWA4BNoneHA7G8ZTetrahydrocannabinolHJUBLHTetrahydrocannabinolKDELW6NoneL3F4YBTetrahydrocannabinolLCJXFVTetrahydrocannabinolLOX86NoneLGJXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLDXMGLCannabinolLDXMGLTetrahydrocannabinolLDXMGLTetrahydrocannabinolLQZEZCannabinolLGQ2EZCannabinolLGARDLGARDLGARDLGARDLGARDLGARDLGARDLGARDLGARDLGARDLGARDLGARDLGARDLGARDLGARDCannabinolCannabinolCannabinolLGARDCannabinolLGARDCannabinolLGARDCannabinolLGARDCannabinolLGARDCannabinol<	EQKJFX	
CannabidiolETW2Y3Cannabigerol Tetrahydrocannabinol Tetrahydrocannabinolic Acid CannabidiolFDFMUANoneFJZJXYTetrahydrocannabinolFJZJXYTetrahydrocannabinolFNWA4BNoneHA7G8ZTetrahydrocannabinolHJUBLHTetrahydrocannabinolKDELW6NoneL3F4YBTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXMGLTetrahydrocannabinolLQZEZCannabinolLQZEZCannabigerolTetrahydrocannabinolCannabinolLQZEZCannabinolCannabinolCannabinolLQZEZCannabinolCannabinolCannabinolLOXAGLTetrahydrocannabinolLQZEZCannabinolCannabinolCannabinolCannabinolCannabinolLNMGLTetrahydrocannabinolLOXAGLTetrahydrocannabinolCannabinol		
Tetrahydrocannabinol Tetrahydrocannabinolic Acid CannabidiolFDFMUANoneFJZJXYTetrahydrocannabinolFNWA4BNoneHA7G8ZTetrahydrocannabinolHJUBLHTetrahydrocannabinolKDELW6NoneL3F4YBTetrahydrocannabinolLADV86NoneLCJXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLOXMGLTetrahydrocannabinolLQXFZCannabidiolLQZEZCannabigerolTetrahydrocannabinolCannabidiolCannabidiolCannabidiolCannabidiolCannabidiol		
Tetrahydrocannabinol Tetrahydrocannabinolic Acid CannabidiolFDFMUANoneFJZJXYTetrahydrocannabinolFNWA4BNoneHA7G8ZTetrahydrocannabinolHJUBLHTetrahydrocannabinolKDELW6NoneL3F4YBTetrahydrocannabinolLADV86NoneLCJXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLQXFVTetrahydrocannabinolLOXMGLTetrahydrocannabinolLQXFZCannabidiolLQZEZCannabigerolTetrahydrocannabinolCannabidiolCannabidiolCannabidiolCannabidiolCannabidiol	ETW2Y3	Cannabigerol
Cannabinol CannabidiolFDFMUANoneFJ2JXYTetrahydrocannabinolFNWA4BNoneHA7G8ZTetrahydrocannabinolHJUBLHTetrahydrocannabinolKDELW6NoneL3F4YBTetrahydrocannabinolLADV86NoneLCJXFVTetrahydrocannabinolLDXMGLTetrahydrocannabinolLDXMGLTetrahydrocannabinolLQXF2CannabinolLQYJ93TetrahydrocannabinolLQZEZCannabigerolCannabidolCannabidolCannabidolCannabidolLQZEZCannabigerolCannabidol		-
CannabidiolFDFMUANoneFJ2JXYTetrahydrocannabinolFNWA4BNoneHA7G8ZTetrahydrocannabinolHJUBLHTetrahydrocannabinolKDELW6NoneL3F4YBTetrahydrocannabinolLADV86NoneLCJXFVTetrahydrocannabinolLDXMGLTetrahydrocannabinolLDXMGLTetrahydrocannabinolLQZEZCannabidiolLQZEZCannabigerolTetrahydrocannabinolLQZEZCannabigerolCannabidiolCannabidiol		
FDFMUANoneFJ2JXYTetrahydrocannabinolFNWA4BNoneHA7G8ZTetrahydrocannabinolHJUBLHTetrahydrocannabinolKDELW6NoneL3F4YBTetrahydrocannabinolLADV86NoneLCJXFVTetrahydrocannabinolLDXMGLTetrahydrocannabinolLDXMGLTetrahydrocannabinolLQZEZCannabinolCannabinolTetrahydrocannabinolLQZEZCannabinolCannabinolTetrahydrocannabinolCannabinolCannabinolCannabinolCannabinolCannabinolTetrahydrocannabinolLOXIGITetrahydrocannabinolCannabino		
FJ2JXYTetrahydrocannabinolFNWA4BNoneHA7G8ZTetrahydrocannabinolHJUBLHTetrahydrocannabinolKDELW6NoneL3F4YBTetrahydrocannabinolLADV86NoneLCJXFVTetrahydrocannabinolLDXMGLTetrahydrocannabinolLDXMGLTetrahydrocannabinolLGYJ93TetrahydrocannabinolLIQZEZCannabigerolCannabinolCannabinolCannabinolCannabinolLIQZEZCannabinol<		
FNWA4BNoneHA7G8ZTetrahydrocannabinolHJUBLHTetrahydrocannabinolKDELW6NoneL3F4YBTetrahydrocannabinolLADV86NoneLCJXFVTetrahydrocannabinolLDXMGLTetrahydrocannabinolCannabinolCannabinolLQZEZCannabigerolLQZEZCannabigerolCannabinolCannabinolCannabinolCannabinolLIQZEZCannabigerolCannabinol		
HA7G8ZTetrahydrocannabinolHJUBLHTetrahydrocannabinolKDELW6NoneL3F4YBTetrahydrocannabinolLADV86NoneLCJXFVTetrahydrocannabinolLDXMGLTetrahydrocannabinolCannabinolCannabinolLGYJ93TetrahydrocannabinolLLQZEZCannabigerolTetrahydrocannabinolCannabinolCannabinolCannabinolCannabinolCannabinolLIQZEZCannabinol		
HJUBLH Tetrahydrocannabinol KDELW6 None L3F4YB Tetrahydrocannabinol LADV86 None LCJXFV Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LQXFV Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol LGYJ93 Tetrahydrocannabinol LLQZEZ Cannabigerol Tetrahydrocannabinol Cannabinol Cannabinol Cannabinol Cannabinol Cannabinol Cannabigerol Tetrahydrocannabinol Cannabinol Cannabinol		
KDELW6 None L3F4YB Tetrahydrocannabinol LADV86 None LCJXFV Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol Cannabinol Cannabinol LGYJ93 Tetrahydrocannabinol LLQZEZ Cannabigerol Cannabinol Cannabinol Cannabidiol Cannabidiol		
L3F4YBTetrahydrocannabinolLADV86NoneLCJXFVTetrahydrocannabinolLDXMGLTetrahydrocannabinol Cannabinol CannabidolLGYJ93TetrahydrocannabinolLLQZEZCannabigerol Tetrahydrocannabinol Cannabidol		
LADV86 None LCJXFV Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol Cannabinol Cannabidiol LGYJ93 Tetrahydrocannabinol LLQZEZ Cannabigerol Tetrahydrocannabinol Cannabidiol		
LCJXFV Tetrahydrocannabinol LDXMGL Tetrahydrocannabinol Cannabinol Cannabidiol LGYJ93 Tetrahydrocannabinol LLQZEZ Cannabigerol Tetrahydrocannabinol Cannabidiol		
LDXMGL Tetrahydrocannabinol Cannabinol Cannabidiol LGYJ93 Tetrahydrocannabinol LLQZEZ Cannabigerol Tetrahydrocannabinol Cannabidiol		None
Cannabinol Cannabidiol LGYJ93 Tetrahydrocannabinol LLQZEZ Cannabigerol Tetrahydrocannabinol Cannabidiol	LCJXFV	Tetrahydrocannabinol
Cannabidiol LGYJ93 Tetrahydrocannabinol LLQZEZ Cannabigerol Tetrahydrocannabinol Cannabinol Cannabidiol Cannabidiol	LDXMGL	
LGYJ93 Tetrahydrocannabinol LLQZEZ Cannabigerol Tetrahydrocannabinol Cannabinol Cannabidiol		
LLQZEZ Cannabigerol Tetrahydrocannabinol Cannabinol Cannabidiol		
Tetrahydrocannabinol Cannabinol Cannabidiol		
Cannabinol Cannabidiol	LLQZEZ	
Cannabidiol		
LM2TEU None		
	LM2TEU	None

Webcode	What Cannabinoids were tested for in Item 2?
LNEAPM	Cannabigerol
	Tetrahydrocannabinol
	Cannabinol
_	Other cannabinoids: THCV (tetrahydrocannabivarin), CBDV (cannabidivarin) and CBT (cannabicitran)
LTMX24	Tetrahydrocannabinol
LYZB9H	Cannabigerol
	Tetrahydrocannabinol
	Cannabidiol
MAAD6Z	Tetrahydrocannabinol
MN9EJL	None
MNDPKY	Cannabigerol
	Tetrahydrocannabinol Cannabinol
	Cannabidiol
MQGR2N	
	Tetrahydrocannabinol
MRBFHX	Tetrahydrocannabinol
N6D72H	None
N7N6VQ	Tetrahydrocannabinol Tetrahydrocannabinolic Acid
NN9YLF	Tetrahydrocannabinol
NXGB2X	Tetrahydrocannabinol
PDHNUZ	Cannabigerol
	Tetrahydrocannabinol
	Cannabinol
	Cannabidiol
PU8HMP	Tetrahydrocannabinol
Q3XQHZ	Tetrahydrocannabinol
	Cannabinol Cannabidiol
Q94EXM	Cannabigerol
	Tetrahydrocannabinol Tetrahydrocannabinolic Acid
	Cannabinol
	Cannabidiol
Q9QQYG	Tetrahydrocannabinol
	Cannabinol
	Cannabidiol
QDLDXW	Tetrahydrocannabinol
	Cannabinol
	Cannabidiol

|--|

Webcode	What Cannabinoids were tested for in Item 2?
QEVLHG	Tetrahydrocannabinol Cannabidiol
QZTV2J	Cannabigerol Tetrahydrocannabinol Tetrahydrocannabinolic Acid Cannabinol Other cannabinoids: cannabigerol, cannabigerolic acid, cannabilolic acid
RPA4PE	Cannabigerol Tetrahydrocannabinol Cannabinol Cannabidiol
RRYA9P	Tetrahydrocannabinol Cannabinol Cannabidiol
RVGK6U	Tetrahydrocannabinol
T2FFHY	None
ТСΖМЈ9	Cannabigerol Tetrahydrocannabinol Cannabinol Cannabidiol
TDARRQ	Tetrahydrocannabinol
TQHDFQ	None
TRFNDE	Tetrahydrocannabinol Other cannabinoids: Cannabinoids
TVAKYY	Tetrahydrocannabinol Cannabinol Cannabidiol
TVUF48	Cannabigerol Tetrahydrocannabinol Tetrahydrocannabinolic Acid Cannabinol Cannabidiol
TZMFPU	Cannabigerol Tetrahydrocannabinol Cannabinol Cannabidiol
U2T6JQ	None
U3T6KB	Tetrahydrocannabinol Cannabinol Cannabidiol
U4JJTL	Cannabigerol Tetrahydrocannabinol Cannabinol Cannabidiol

Webcode	What Cannabinoids were tested for in Item 2?
UEH8YW	None
UV7HNK	Tetrahydrocannabinol
VD6WLQ	Tetrahydrocannabinol
VPZ3HA	None
VR7JWT	Cannabigerol
	Tetrahydrocannabinol Cannabinol
	Cannabidiol
W4DNMK	None
WVWGFF	Cannabigerol
	Tetrahydrocannabinol
	Tetrahydrocannabinolic Acid
	Cannabinol
	Cannabidiol
X6ZUCA	Cannabigerol
	Tetrahydrocannabinol Cannabinol
	Cannabidiol
XBTY6E	Other cannabinoids: THC, CBN, CBG, and CBD were detected, but were not confirmed.
XEPH8C	Tetrahydrocannabinol
XNVPMC	Tetrahydrocannabinol
XPPD4M	Tetrahydrocannabinol
XXHLQY	None
Y9FL33	Tetrahydrocannabinol
	Cannabinol
	Cannabidiol
YCHM4Z	Cannabigerol
	Tetrahydrocannabinol
	Cannabinol
	Cannabidiol
YVRKKB	None
Z6RU66	None
ZKT4BZ	Cannabinol
	Cannabidiol
ZT66X6	Tetrahydrocannabinol
ZWMKZ2	Tetrahydrocannabinol

Response Summary for Item 2	Participants: 72						
None:	25						
Cannabigerol (CBG):	24						
Tetrahydrocannabinol (THC):	68						
Tetrahydrocannabinolic Acid (THCA)	9						
Cannabinol (CBN):	35						
Cannabidiol (CBD):	35						
*Other:	7						
The total may be more than the total number of participants because participants can report multiple cannabinoids.							

*This value represents the number of participants that reported text for the "Other" response blank on the data entry form.

Examination Method of Analysis - Item 2

TABLE 2C									
Webcode	Color	GC-FID	GC/MS	70	M _{acro}	Micro	ηc	Other	
29A997			1			1			
2TDWXG	1		1		1	1			
2ZF72N	1				1	1			
3MKC87			1		1	1			
3X4Q9M		1	✓			1			
43VE4K	✓		✓		1	1			
4X2HJZ			✓	1					
6B49XD	✓		~		1	1			
6UWCED	✓				1	1			
6WLJYB	✓				1	1			
72AM6J	~				1	1			
7UG3AJ						1	1		
8C9DN7	~				1	1			
8CRJLB	1				1	1			
8Y6A2Q							~		
968LV3	1				 ✓ 	1			
9C78KG	1				1	1			
9GXF6B	1				1	1	1		
9NZHEH			1	1					
9RZWFE	1				1	1		Duquenois-Levine Tests	
9YVXV7	1				1	1			
A8TP4Z	1		1		 ✓ 	1			
AKGNU3	1				1	1			
ALMC88			1			1			
BBL7TY			1		1	1			
BCGUAA	1				1	1	1		
BPMVT7					~	1			
BR9QB6	1				~	1			
BRU3AD	1				1	1			
BT3ERE		1	✓		✓	1			
C82TB9			1			1			

Webcode	Color	GC-FID	GC/MS	5 7	M _{acro}	Micro	ηc	Other	
СВКVСМ	✓		1		✓	1			
DLGZ2E	~				1	1			
ЕЗННВА	✓				1	1			
ELFGXC			1			1			
EQKJFX			1						
ETW2Y3			~				1		
FDFMUA	~				1	1			
FJ2JXY			1			1		Weight Determination	
FNWA4B	~				1	1			
HA7G8Z	~				~	1	1		
HJUBLH	~		1		1	1			
KDELW6	~				1	✓			
L3F4YB	~		1				1		
LADV86	~				1	1			
LCJXFV	~				1	1			
LDXMGL	✓		1						
LGYJ93			1	1		1		Electronic Balance	
LLQZEZ			1			1		Weight/balance	
LM2TEU					1	✓			
LNEAPM	~		1		1	1	1		
LTMX24	~		1		1	1			
LYZB9H			1						
MAAD6Z			~			1		Electronic balance	
MN9EJL	1				✓	1			
MNDPKY			1			1		Electronic Balance	
MQGR2N	~		1		1	1			
MRBFHX	✓		1			1			
N6D72H	~				~	1			
N7N6VQ			1						
NN9YLF	~				~	1			
NXGB2X			✓			1			
PDHNUZ			✓		1	1			
PU8HMP			1			1		Weight Determination	

	TADLE 2C - Exumination Method(s) - herri z									
Webcode	Color	GC-FID	GC/MS	7C	M _{acro}	Micro	ηc	Other		
Q3XQHZ		1	✓			1				
Q94EXM			1			✓				
Q9QQYG	✓		1			1				
QDLDXW			1			✓				
QEVLHG			~			1				
QZTV2J			1							
RPA4PE	✓		1			✓				
RQN8LQ	✓				1	1				
RRYA9P	✓		1							
RVGK6U			✓			✓				
T2FFHY	✓				1	✓				
TAT88W	✓				1	✓				
ТСΖМЈ9			1		1	✓				
TDARRQ	 ✓ 		~			1				
TQHDFQ	✓				1	✓				
TRFNDE	✓		✓		1	✓				
TVAKYY		1	1			✓				
TVUF48			~		1	1				
TZMFPU			~			1				
U2T6JQ	✓				1	1	1			
U3T6KB	✓					1	1			
U4JJTL	✓		~			1				
UEH8YW	~				~	1				
UV7HNK	✓				1	1				
VD6WLQ	~		~			1				
VPZ3HA	~				~	1				
VR7JWT			~	1		1				
W4DNMK						1				
WVWGFF										
X6ZUCA	✓		✓							
XBTY6E	✓		✓		1	1				
XEPH8C	1					1				
XNVPMC	✓		~			1				

TABLE 2C - Examination Method(s) - Item 2

Webcode	Color	GC.FlD	^{GC/MS}	70	Macro	Micro	ηc	Other
XPPD4M	✓		✓			1		
XXHLQY					1	1		Duquenois-Levine
Y9FL33			1			1		
YCHM4Z	1		1			1	✓	
YVRKKB	1				✓	1		
Z6RU66	1				1	1		
Z772QM			1			1		Balance
ZKT4BZ	1		1		1	1		
ZT66X6	✓					1	1	
ZWMKZ2	1				1	1		

Response Sum	mary for	ltem 2						Participants: 106
Total	65	4	60	4	58	94	12	
Percent	61%	4%	56%	4%	54%	88%	11%	

Quantitative Method of Analysis - Item 2

				TABLE	2D			
Webcode	Color	GC-FID	GC/MS	7C	M _{acro}	Micro	ηc	Other
ЗМКС87		1						
3X4Q9M		1						
4X2HJZ		1						
7UG3AJ		1						
8Y6A2Q		1						
EQKJFX		1						
ETW2Y3				1				
lneapm				1				
LYZB9H			1					
N7N6VQ				1				
PDHNUZ		1						
Q94EXM		1						
QZTV2J		1						
ТС ZМЈ9		1						
TVUF48		1						
WVWGFF				1				
Y9FL33		1						
ZWMKZ2		1						
Response Sum	mary for	Item 2						Participants: 18
Total	0	13	1	4	0	0	0	
Percent	0%	72%	6%	22%	0%	0%	0%	

Quantitative Results - Item 2

What is the total THC concentration in Item 2?

TABLE 2E

Item Contents and Preparation Concentration: Marihuana, 8.6% THC

Webcode	Reported Concentration	Uncertainty	K Value	Units
3MKC87	6	11.55	2	%
4X2HJZ	9	1.2	1	%
7UG3AJ	8			%
8Y6A2Q	9.0	2	2	%THC
EQKJFX	7.3			%
ETW2Y3	8,66	0,52	2	by weight %
LNEAPM	9,07	0,16		%
LYZB9H	80.2			µg/mg
N7N6VQ	13.9	4.5	4.53	% w/w
PDHNUZ	8	0,5	2	%
Q94EXM	9.06			%
QZTV2J	96,8	8,22	2	mg/L
ТСZМЈ9	7.28	4.5	2	%
TVUF48	8	4.5	2	%
WVWGFF	7.8			
Y9FL33	8.48	4.5	2	%
ZWMKZ2	6	4.5	2	%

Raw Data - Item 2

List of raw data determinations in percent of total THC.

TABLE 2F

Preparation concentration: (8.6% THC)

Webcode	Raw Dat	ta (%)			Participant Mean
3MKC87	5.960	6.450			6.205
4X2HJZ	8.351	9.151			8.751
7UG3AJ	8.100	9.500	7.900	9.500	8.750
8Y6A2Q	8.630	8.530	9.750		8.970
EQKJFX	7.600	6.900	7.400		7.300
ETW2Y3	8.913	8.410	8.720		8.681
LNEAPM	8.940	9.280	9.010		9.077
LYZB9H	8.030	7.890	8.150		8.023
N7N6VQ	14.080	15.420	12.070		13.86 X
PDHNUZ	7.900	8.800	7.100		7.933
Q94EXM	9.060				9.060
QZTV2J	9.210	10.300			9.755
ТС Z М Ј 9	7.620	7.620	6.960	6.930	7.283
TVUF48	8.140	8.020	7.730	7.770	7.915
WVWGFF	7.800				3.890
Y9FL33	8.850	8.880	8.100	8.080	8.478
ZWMKZ2	6.616	6.548	6.371	6.398	6.483
Statistical An	alysis for I	tem 2			
Grand N Standard Devic	1ean 8.178 ation 1.007			Participants Included 15 Participants Excluded 1	Participants without Raw Data or Data that was 0 not reported in %

Reporting Procedures - Item 2

If quantitative analysis was performed, the reported concentrations are:

TABLE 2G

Webcode	Quantitative Reporting Procedures	
ЗМКС87	The mean of duplicate/several determinations.	
3X4Q9M	Single sample, mean of triplicate injections	
4X2HJZ	The mean of duplicate/several determinations.	
7UG3AJ	The mean of duplicate/several determinations.	
8Y6A2Q	The mean of duplicate/several determinations.	
EQKJFX	The mean of duplicate/several determinations.	
ETW2Y3	The mean of duplicate/several determinations.	
lneapm	The mean of duplicate/several determinations.	
LYZB9H	The mean of duplicate/several determinations.	
N7N6VQ	The mean of duplicate/several determinations.	
PDHNUZ	The mean of duplicate/several determinations.	
Q94EXM	The mean of duplicate/several determinations.	
QZTV2J	The mean of duplicate/several determinations.	
ТСZМЈ9	The mean of duplicate/several determinations.	
TVUF48	The mean of duplicate/several determinations.	
WVWGFF	A single determination	
Y9FL33	The mean of duplicate/several determinations.	
ZWMKZ2	The mean of duplicate/several determinations.	
Response Summ	nary for Item 2	Participants: 18

A single determination: 1 (5.6%) The mean of duplicate/several determinations: 16 (88.9%) Other: 1 (5.6%)		
	A single determination:	1 (5.6%)
Other: 1 (5.6%)	The mean of duplicate/several determinations:	16 (88.9%)
	Other:	1 (5.6%)

Marihuana Identification - Item 3

		TA	BLE 3A	Λ	
Webcode		Was marihuana (can	nabis) d	etected/identified?	
29A997	No	BRU3AD	No	MQGR2N	No
2TDWXG	No	BT3ERE	No	MRBFHX	No
2ZF72N	No	C82TB9	No	N6D72H	No
3MKC87	No	СВКУСМ	No	N7N6VQ	No
3X4Q9M	No	DLGZ2E	No	NN9YLF	No
43VE4K	No	E3HHBA	No	NXGB2X	No
4X2HJZ	No	ELFGXC	No	PDHNUZ	No
6B49XD	No	EQKJFX	No	PU8HMP	No
6UWCED	No	ETW2Y3	No	Q3XQHZ	No
6WLJYB	No	FDFMUA	No	Q94EXM	No
72AM6J	No	FJ2JXY	No	Q9QQYG	No
7UG3AJ	No	FNWA4B	No	QDLDXW	No
8C9DN7	No	HA7G8Z	No	QEVLHG	No
8CRJLB	No	HJUBLH	No	QZTV2J	No
8Y6A2Q	No	KDELW6	No	RPA4PE	No
968LV3	No	L3F4YB	No	RQN8LQ	No
9C78KG	No	LADV86	No	RRYA9P	No
9GXF6B	No	LCJXFV	No	RVGK6U	No
9NZHEH	No	LDXMGL	No	T2FFHY	No
9RZWFE	No	LGYJ93	No	TAT88W	No
9YVXV7	No	LLQZEZ	No	TCZMJ9	No
A8TP4Z	No	LM2TEU	No	TDARRQ	No
AKGNU3	No	LNEAPM	No	TQHDFQ	No
ALMC88	No	LTMX24	No	TRFNDE	No
BBL7TY	No	LYZB9H	No	TVAKYY	No
BCGUAA	No	MAAD6Z	No	TVUF48	No
BPMVT7	No	MN9EJL	No	TZMFPU	No
BR9QB6	No	MNDPKY	No	U2T6JQ	No

TABLE 3A - Marihuana Identification - Item 3

Webcode		Was marihuana (cannabis) detected/id	dentified?		
U3T6KB	No				
U4JJTL	No				
UEH8YW	No				
UV7HNK	No				
VD6WLQ	No				
VPZ3HA	No				
VR7JWT	No				
W4DNMK	No				
WVWGFF	No				
X6ZUCA	No				
XBTY6E	No				
XEPH8C	No				
XNVPMC	No				
XPPD4M	No				
XXHLQY	No				
Y9FL33	No				
YCHM4Z	No				
YVRKKB	No				
Z6RU66	No				
Z772QM	No				
ZKT4BZ	No				
ZT66X6	No				
ZWMKZ2	No				
	Marihuana Identification Response Summary for Item 3 Participants: 107				
vvas marinuc	ina (cannabis <u>Response</u> Yes No	s) detected/ identified in this Item? <u>Total</u> 0 107			

Cannabinoid Tested For - Item 3

Which cannabinoids were tested for in Item 3?

TABLE 3B

Webcode	What Cannabinoids were tested for in Item 3?
29A997	None
2TDWXG	Tetrahydrocannabinol
ЗМКС87	Cannabigerol Tetrahydrocannabinol Cannabinol Cannabidiol
43VE4K	None
4X2HJZ	Tetrahydrocannabinol Cannabinol Cannabidiol
6B49XD	Tetrahydrocannabinol
6UWCED	Cannabigerol Tetrahydrocannabinol Tetrahydrocannabinolic Acid Cannabinol Cannabidiol
6WLJYB	None
72AM6J	Cannabigerol Tetrahydrocannabinol Tetrahydrocannabinolic Acid Cannabinol Cannabidiol Other cannabinoids: Cannabichromene (CBC), tetrohydrocannabivarin (THCV)
7UG3AJ	Tetrahydrocannabinol
8C9DN7	None
8CRJLB	Cannabigerol Tetrahydrocannabinol Tetrahydrocannabinolic Acid Cannabinol Cannabidiol
8Y6A2Q	Tetrahydrocannabinol Cannabinol Cannabidiol
9C78KG	Tetrahydrocannabinol
9GXF6B	None
9NZHEH	Cannabigerol Tetrahydrocannabinol Cannabinol Cannabidiol Other cannabinoids: Tested for THC, CBD, CBN and CBG, but no cannabinoids detected.
A8TP4Z	None

Webcode	What Cannabinoids were tested for in Item 3?
AKGNU3	Other cannabinoids: Cannabinoids
BBL7TY	Tetrahydrocannabinol
BPMVT7	None
BRU3AD	None
BT3ERE	None
СВКУСМ	Tetrahydrocannabinol
ЕЗННВА	None
ELFGXC	Tetrahydrocannabinol
EQKJFX	None
ETW2Y3	None
FDFMUA	Cannabigerol Tetrahydrocannabinol Tetrahydrocannabinolic Acid Cannabinol
	Cannabidiol Other cannabinoids: CBC, THCV
FJ2JXY	Tetrahydrocannabinol
FNWA4B	Cannabigerol Tetrahydrocannabinol Tetrahydrocannabinolic Acid Cannabinol Cannabidiol Other cannabinoids: cannabichromene, cannabicyclol
HA7G8Z	Tetrahydrocannabinol
HJUBLH	None
KDELW6	Cannabigerol Tetrahydrocannabinol Cannabinol Cannabidiol
L3F4YB	None
LADV86	None
LCJXFV	Tetrahydrocannabinol
LGYJ93	None
LLQZEZ	None
LM2TEU	None
LNEAPM	None
LTMX24	Tetrahydrocannabinol
LYZB9H	None
MAAD6Z	None
MN9EJL	None

Webcode	What Cannabinoids were tested for in Item 3?
MNDPKY	Cannabigerol
	Tetrahydrocannabinol
	Cannabinol Cannabidiol
MQGR2N	
MQGRZN	Tetrahydrocannabinol
N6D72H	Tetrahydrocannabinol
	None
N7N6VQ	Tetrahydrocannabinol Tetrahydrocannabinolic Acid
NN9YLF	Tetrahydrocannabinol
NXGB2X	None
PDHNUZ	Cannabigerol
	Tetrahydrocannabinol
	Cannabinol Cannabidiol
PU8HMP	Tetrahydrocannabinol
Q3XQHZ	
QSAQUE	Tetrahydrocannabinol Cannabinol
	Cannabidiol
Q94EXM	None
Q9QQYG	None
QDLDXW	None
QZTV2J	None
RPA4PE	Cannabigerol
	Tetrahydrocannabinol
	Cannabinol Cannabidiol
RRYA9P	None
RVGK6U	None
T2FFHY	None
TCZMJ9	Cannabigerol
	Tetrahydrocannabinol Cannabinol
	Cannabidiol
TDARRQ	Tetrahydrocannabinol
TQHDFQ	Tetrahydrocannabinol
TRFNDE	Other cannabinoids: Cannabinoids
TVAKYY	Tetrahydrocannabinol
	Cannabinol
	Cannabidiol

TABLE 3B - Cannabinoids - Item 3

Webcode	What Cannabinoids were tested for in Item 3?
TVUF48	Cannabigerol
	Tetrahydrocannabinol
	Tetrahydrocannabinolic Acid Cannabinol
	Cannabinoi Cannabidiol
TZMFPU	Cannabigerol
	Tetrahydrocannabinol
	Tetrahydrocannabinolic Acid
	Cannabinol
	Cannabidiol
U2T6JQ	None
U3T6KB	Tetrahydrocannabinol
	Cannabinol
	Cannabidiol
U4JJTL	Cannabigerol
	Tetrahydrocannabinol Cannabinol
	Cannabidiol
UEH8YW	Cannabigerol
	Tetrahydrocannabinol
	Tetrahydrocannabinolic Acid
	Cannabinol
	Cannabidiol
UV7HNK	Other cannabinoids: Cannabichromene (CBC)
	Tetrahydrocannabinol
	Tetrahydrocannabinol
	Tetrahydrocannabinol
VR7JWT	None
W4DNMK	Tetrahydrocannabinol
WVWGFF	Cannabigerol Tatyahudro asana shina l
	Tetrahydrocannabinol Tetrahydrocannabinolic Acid
	Cannabinol
	Cannabidiol
XEPH8C	Tetrahydrocannabinol
XNVPMC	Tetrahydrocannabinol
XPPD4M	Tetrahydrocannabinol
XXHLQY	None
Y9FL33	Tetrahydrocannabinol
	Cannabinol
	Cannabidiol
YCHM4Z	None
YVRKKB	None
Z6RU66	None

TABLE 3B - Cannabinoids - Item 3

Webcode	What Cannabinoids were tested for in	Item 3?
ZKT4BZ	None	
ZT66X6	Tetrahydrocannabinol	
ZWMKZ2	Cannabigerol	
	Tetrahydrocannabinol	
	Cannabinol Cannabidiol	
	Cannabiaioi	
Response Su	ummary for Item 3	Participants: 52
	None:	38
	Cannabigerol (CBG):	18
	Tetrahydrocannabinol (THC):	50
	Tetrahydrocannabinolic Acid (THCA)	10
	Cannabinol (CBN):	24
	Cannabidiol (CBD):	24
	*Other:	7
The total may be	e more than the total number of participants because p	participants can report multiple cannabinoids.

*This value represents the number of participants that reported text for the "Other" response blank on the data entry form.

Examination Method of Analysis - Item 3

TABLE 3C								
Webcode	Color	GC-FID	GC/MS	70	M _{acro}	Micro	ηc	Other
29A997			1			1		
2TDWXG	1		1		1	1		
2ZF72N	1		1		1	1		
3MKC87			1		1	1		
3X4Q9M			1			1		
43VE4K	1		1		1	1		
4X2HJZ			1	1				
6B49XD	1		1		1	1		
6UWCED			1					UV
6WLJYB	✓				✓	1		
72AM6J	1		1		1	1		
7UG3AJ						1	✓	
8C9DN7	1				1	1		
8CRJLB	1		1		✓	1		
8Y6A2Q			1				✓	
968LV3	1		1		1	1		
9C78KG	1	1	1		1	1		
9GXF6B	✓		1		✓	1	✓	
9NZHEH			1					
9RZWFE	1		1		1	1		Duquenois-Levine Tests
9YVXV7	✓				✓	1		
A8TP4Z	1		1		1	1		
AKGNU3	✓		1		✓	1		
ALMC88			~			1		
BBL7TY			1		✓	1		
BCGUAA	1				1	1	✓	
BPMVT7					1	1		
BR9QB6	~				✓	1		
BRU3AD			✓		 ✓ 	1		
BT3ERE		1	✓		1	1		
C82TB9			1	1		1		

TABLE 3C - Examination Method(s) - Item 3

Webcode	Color	GC-FID	GC/MS	70	M _{acro}	Micro	ηc	Other
CBKVCM	1		1		1	1		
DLGZ2E	✓		1		1	1		
E3HHBA	✓		1		1	1		
ELFGXC			1			1		
EQKJFX			1					
ETW2Y3			1				1	
FDFMUA	1		1		✓	1		
FJ2JXY			1			1		Weight Determination
FNWA4B	1		1		1	1		
HA7G8Z	1				1	1	1	
HJUBLH	1		1		1	1		
KDELW6	1		1		1	1		
L3F4YB	1		1			1		
LADV86	1				1	1		
LCJXFV	1		1		1	1		
LDXMGL	1		1					
LGYJ93			1	1		1		Electronic Balance
LLQZEZ			1	1		1		Weight/balance
LM2TEU					1	1		
lneapm	1		1		✓	1	1	
LTMX24	1		1		1	1		
LYZB9H			1					
MAAD6Z			1	1		1		Electronic balance
MN9EJL	1		1		1	1		
MNDPKY			1	1		1		Electronic Balance
MQGR2N	1		1		1	1		
MRBFHX	✓		✓			1		
N6D72H	✓				1	1		
N7N6VQ			✓					
NN9YLF	1		1		1	1		
NXGB2X			✓	1		1		
PDHNUZ			1		1	1		
PU8HMP			✓			1		Weight Determination

Webcode	Color	GC.FID	GC/MS	7C	M _{acro}	Micro	ηc	Other
Q3XQHZ		1	1			1		
Q94EXM			1			1		
Q9QQYG	✓		1			1		
QDLDXW			1					UV
QEVLHG			~			1		
QZTV2J								
RPA4PE	✓		1			✓		
RQN8LQ	✓		~		1	1		
RRYA9P	✓		1			1		
RVGK6U			1	1		1		
T2FFHY	✓		1		1	✓		
TAT88W		1	1		1	1		
TCZMJ9			1		1	✓		
TDARRQ	✓		~			1		
TQHDFQ	✓		1		1	✓		
TRFNDE	✓		1		1	1		
TVAKYY		1	1			✓		
TVUF48			1		1	1		
TZMFPU			1	1		1		
U2T6JQ	✓				✓	1	~	
U3T6KB	✓					✓	1	
U4JJTL	✓		1			✓		
UEH8YW	✓		~		1	1		
UV7HNK	✓		1		1	1		
VD6WLQ	~		~			1		
VPZ3HA	✓		1		1	1		
VR7JWT			~	1		1		
W4DNMK			1			1		
WVWGFF								
X6ZUCA	✓		1					
XBTY6E	✓		1		1	1		
XEPH8C	1					1		
XNVPMC	✓		1			1		

TABLE 3C - Examination Method(s) - Item 3

Webcode	Color	GC.FID	GC/MS	70	M _{acro}	Micro	ηc	Other
XPPD4M	1		1			1		
XXHLQY			✓		1	1		Duquenois-Levine
Y9FL33			~			1		
YCHM4Z	✓		~			1	✓	
YVRKKB	1		~		1	1		
Z6RU66	1				1	1		
Z772QM			~	1		1		Balance
ZKT4BZ	~		~		1	1		
ZT66X6	~					1	✓	
ZWMKZ2			1					

Response Sum	Response Summary for Item 3										
Total	61	5	89	11	56	93	11				
Percent	57%	5%	83%	10%	52%	87%	10%				

Quantitative Method of Analysis - Item 3

				TABLE	E 3D			
Webcode	Color	GC.FID	GC/MS	4C	M _{acro}	Micro	ηc	Other
4X2HJZ		1						
LYZB9H			1					
WVWGFF				1				
Response Sun	nmary for	Item 3						Participants: 3
Total	0	1	1	1	0	0	0	
Percent	0%	33%	33%	33%	0%	0%	0%	

Quantitative Results - Item 3

What is the total THC concentration in Item 3?

TABLE 3E

Item Contents and Preparation Concentration: Oregano, N/A

Webcode	Reported Concentration	Uncertainty	K Value	Units
4X2HJZ	not detected			
WVWGFF	0.0			

Raw Data - Item 3

List of raw data determinations in percent of total THC.

TABLE 3F

Preparation concentration: (N/A)

Webcode	Raw Data (%)	Participant Mean
WVWGFF	0.000 0.000	
Statistical An	nalysis for Item 3	

Please note Statisitical Analysis for this Item has not been provided due to the zero value of most responses. This did not allow for the generation of accurate statistics.

Reporting Procedures - Item 3

If quantitative analysis was performed, the reported concentrations are:

TABLE 3G

Webcode	e Quantitative Reporting Pro	cedures	
4X2HJZ	The mean of duplicate/several de	The mean of duplicate/several determinations.	
WVWGFF A single determination			
Respons	e Summary for Item 3		Participants: 2
	A single determination:	1 (50.0%)	
	The mean of duplicate/several determinations:	1 (50.0%)	
	The mean of applicate/several determinations.	1 (30.070)	

Additional Comments

TABLE 4

WebCode	Additional Comments
29A997	In sample "18-503 Item 3" Carvacrol was detected.
2ZF72N	[From Tables 1B & 2B - Cannabinoids Tested For, Items 1 -2, Other Cannabinoids: "Color test = Test for cannabinoids, no instrument test(s)."; From Table 3B - Cannabinoids Tested For, Item 3, Other Cannabinoids: "Color test = test for cannabinoids, GCMS = screen run"]
3X4Q9M	Results and Conclusions: A portion of the material from items 1 and 2 was analyzed separately and each was found to contain marijuana based on a Total THC concentration greater than 0.3 percent. No controlled substances or other known drugs of forensic interest were identified in item 3. Evidence: A sealed envelope holding a sealed envelope containing three sealed envelopes, labeled items 1, 2, and 3, was received. Item 1 was a sealed envelope holding a gold colored heat-sealed package containing a glassine bag holding 0.39 gram of green plant material. Item 2 was a sealed envelope holding a red colored heat-sealed package containing a glassine bag holding 0.40 gram of green plant material. Item 3 was a sealed envelope holding a silver colored heat-sealed package containing a glassine bag holding 0.40 gram of green plant material. Methods and Observations: The plant material was examined using a stereomicroscope to observe specific physical characteristics. A portion of the material from items 1, 2, and 3 was extracted with methanol and was analyzed using a gas chromatograph/mass spectrometer. A second portion of the material from items 1 and 2 was extracted with methanol containing an internal standard and was analyzed using a gas chromatograph equipped with a flame ionization detector. Remarks: Marijuana contains both delta-9-tetrahydrocannabinoli (THC) and delta-9-tetrahydrocannabinolic acid (THCA). THCA is known to convert to THC upon storage and heating, which occurs during smoking and when analyzed using a gas chromatograph. The identification of marijuana and marijuana concentrates is based on the combined concentrations of THC and THCA (also known as Total THC).
7UG3AJ	Our THC quantitation is for hemp sample analysis only, and has not been validated for levels above 0.35%THC. This proficiency test was completed for information purposes only
9NZHEH	The laboratory does not routinely report "marihuana".
9RZWFE	The Duquenois-Levine Tests are the color tests.
A8TP4Z	This laboratory does not perform quantitative analysis for THC.
BPMVT7	A proportion of the plant material in items 1 and 2 was too finely fragmented for botanical identification.
EQKJFX	Item 1 : cannabidiol $<$ 0.1% cannabinol 0.9%. Item 2 : cannabidiol 8.1% cannabinol 0.6%. Item 3 : identification of thymol
KDELW6	[From Tables 3 - Cannabinoids Tested For, Item 3, Other Cannabinoids: "Full scan GC/MS performed for all cannabinoids in library"]
L3F4YB	The quantification test is not a service provided by the laboratory in this area, a project is being developed in that sense. For this reason, THC quantification is not performed.
LADV86	Only botanical identification is performed by this Forensic Scientist. This lab does not practice quantitation for any illicit drugs. If a controlled substance was suspected but not identified with the combination of Duquenois-Levine color test, Macroscopic exam, & microscopic exam; a true case item would be forwarded to another Forensic Scientist for further chemical analysis.
LCJXFV	Question 2 for each item was confusing. Last year this question asked for the cannabinoids identified.
LM2TEU	All three items were identified by Botanical examination.
MN9EJL	This laboratory does not perform quantitative analysis for THC.
MRBFHX	For item 3, no controlled substances were detected.
N7N6VQ	Plant material analyzed as received. No further chopping, grinding or homogenizing

TABLE 4

WebCode	Additional Comments	
Q9QQYG	The laboratory does not perform quantitative analysis on cannabis.	
QEVLHG	The three samples contain pulverized plant material green color, in good conditions.	
TCZMJ9	Thymol was detected in the ghm in item 3. [From Tablea 1B, 2B & 3B - Cannabinoids Tested For, Items 1 - 3, Other Cannabinoids: "General drugs screen"]	
TDARRQ	Item 3, vegetable matter, no controlled substances detected.	
VD6WLQ	Item 3, no controlled substances were detected.	
VPZ3HA	Thymol indicated in item 3.	
W4DNMK	THC quantitation is not performed by our laboratory at this time. With respect to Item 3 - Laboratory protocol states non-Cannabis plant material must be screened for controlled substances by GC/MS. Results showed 'No Controlled Substances' detected.	
WVWGFF	Sample 1 = cannabis (7.9% THCs). Sample 2 = cannabis (7.8% THCs + 8.4% CBDs). Sample 3 = not cannabis. [From Table 1F - Raw Data Item 1: "8.23% THCA (which calculations to 7.22% THC) and 0.69% THC". From Table 2F - Raw Data Item 2: "7.19% THC and 0.59% CBD".]	
XBTY6E	[From Table 3B - Cannabinoids Tested For, Item 3, Other Cannabinoids: "No controlled substances were detected"]	
XPPD4M	Item 3, no controlled substances were detected.	
YVRKKB	This laboratory does not perform quantitative analysis for THC.	
Z772QM	[From Tables 1B & 2B - Cannabinoids Tested For, Items 1 -2, Other Cannabinoids: "GCMS Screen for common drugs of abuse"; From Table 3B - Cannabinoids Tested For, Item 3, Other Cannabinoids: "GCMS and HPLC screen for common drugs of abuse"]	
ZWMKZ2	For item 1 and 2, the raw data values have been expressed to 6 decimal places for accuracy and rounded up after the average was taken. If this was normal casework, 5 grams would be the minimum sample size before quantitative analysis is performed. Item 1: Multiple cannabinoids tested for by GCMS, two detected, THC and CBD). Item 2: Only THC quant performed. Cannabis ID through	

micro, macro and negms. Item 3: Multiple cannabinoids tested for. Non detected by GCMS

-End of Report-(Appendix may follow)

Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

Test No. 18-503: Marihuana Identification and THC Quantitation

DATA MUST BE RECEIVED BY August 27, 2018 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

Accreditation Release Statement
CTS submits external proficiency test data directly to ASCLD/LAB, ANAB and A2LA. Please select one of the following statements to ensure your data is handled appropriately.
This participant's data is intended for submission to ASCLD/LAB, ANAB, and/or A2LA. (Accreditation Release section on the last page must be completed and submitted.)
This participant's data is NOT intended for submission to ASCLD/LAB, ANAB or A2LA.

Scenario:

An investigator has submitted three separate questioned samples containing what appears to be plant material for analysis. Please examine these samples and determine if marihuana (cannabis) is present. Determine the quantitative value of THC in the identified marihuana (cannabis) sample(s), if that is your laboratory's policy.

Items Submitted (Sample Pack MID):

Items 1-3: Plant material

Examination Results for Item 1

1-1) Is marihuana (cannab	ois) detected/identif	ied in Item 1?			
Yes, marihuana (cannabis) detected/identified No, marihuana (cannabis) not d			abis) not detected/identified		
1-2) What cannabinoids we	ere tested for in Iter	n 1?			
None		Cannabigerol (CBG)			
Tetrahydrocanna	binol (THC)	Tetrahydrocannabinolic Aci	Tetrahydrocannabinolic Acid (THCA)		
Canna	binol (CBN)	Cannabid	iol (CBD)		
Other(s):					
1-3) What method(s) were	used to examine an	nd/or quantitate Item 1?			
	<u>Examination</u>	Quantitation			
•	rsis performed	HC (combination of THC and aboratory reporting criteria for	•		
Reported Concentration	<u>Uncertainty (k=</u>) Units			
		- —			
	-				
reported in % will be exclu		below in percent of total THC calculations.)	(Results not		
<u>Raw Data (%):</u>					
1-6) For quantitative analy	sis of THC, are repo	orted concentrations:			
A single determination	?	f duplicate / several determination	s?		
Other? (Specify):					
	Please return all p	ages of this data sheet.	Page 2 of 6		

Examination Results for Item 2

2-1) Is marihuana (ca	nnabis) detected/identifi	ed in Item 2?	
Yes, marihuana (cannabis) detected/identified No, marihuana (cannabis) not detected/iden			s) not detected/identified
2-2) What cannabinoi	ids were tested for in Iten	n 2?	
	None	Cannabigerol	(CBG)
Tetrahydro	Tetrahydrocannabinol (THC) Tetrahydrocannabinolic Acid (ΓΗCΑ)
(Cannabinol (CBN)	Cannabidiol	(CBD)
Other(s):			
2-3) What method(s)	were used to examine an	d/or quantitate Item 2?	
	Examination	Quantitation	
Color	Tests		
	-FID		
GC	C/MS		
Macroso			
TVIICI OSC			
Other:			
Quantitative Results	e analysis performed		
	, ,	UC (combination of TUC and TU	
		HC (combination of THC and TH aboratory reporting criteria for de	
Reported Concentration	<u>Uncertainty (k=</u>	<u>)</u> <u>Units</u>	
	+/ -		
		below in percent of total THC. (Posults not
	excluded from statistical		
<u>Raw Data (%):</u>			
2.6) For quantitative	analysis of THC, are repo	rted concontrations:	
A single determin			
		f duplicate / several determinations?	
Other? (Specify):			
	Please return all p	ages of this data sheet.	Page 3 of 6

Examination Results for Item 3

3-1) Is marihuana (cannak	ois) detected/identifi	ed in Item 3?
Yes, marihuana (cannabis) detected/identified No, marihuana (cannabis) not detected/ide		
3-2) What cannabinoids w	ere tested for in Iten	n 3?
	None	Cannabigerol (CBG)
Tetrahydrocannabinol (THC) Tetrahydrocannabinolic Acid		Tetrahydrocannabinolic Acid (THCA)
Canna	binol (CBN)	Cannabidiol (CBD)
Other(s):		
3-3) What method(s) were	used to examine an	d/or quantitate Item 3?
	Examination	Quantitation
Color Tests		
GC-FID		
GC/MS	Ц	
LC Macroscopic		
Microscopic		
TLC		
Other:		
Quantitative Results for	Item 3	
No quantitative analy		
		IC (combination of THC and THCA) that was
		aboratory reporting criteria for decimal places,
Reported Concentration	<u>Uncertainty (k=</u>	<u>)</u> <u>Units</u>
+	/-	
		pelow in percent of total THC. (Results not
reported in % will be exclu		
<u>Raw Data (%):</u>		
3-6) For quantitative analy	usis of THC, are repo	rted concentrations:
A single determination		duplicate / several determinations?
	Please return all p	ages of this data sheet. Page 4 o

Additional Comments

Analyst Survey (Optional)

CTS is committed to aiding the forensic science community. The following information is being collected on behalf of the Organization of Scientific Area Committees for Forensic Science (OSAC) - Seized Drugs Subcommittee. A summary of these responses will be provided to this subcommittee and will not be associated with identifying information.

a) Does your laboratory follow the SWGDRUG guidelines?

b) Is your laboratory accredited? If yes, under what standard (e.g. ISO 17025) is your laboratory accredited?

c) Please indicate which of the following best describes your position: Non-practicing, trainee, or qualified to conduct casework.

<u>Return Instructions:</u> Data must be received via online data entry, fax (please include a cover sheet), or mail by <i>August 27, 2018</i> to be included in the	Participant Code: ONLINE DATA ENTRY: www.cts-portal.com	
report. Emailed data sheets are not accepted.	FAX:	+1-571-434-1937
QUESTIONS? TEL: +1-571-434-1925 (8 am - 4:30 pm EST) EMAIL: forensics@cts-interlab.com www.ctsforensics.com	MAIL:	Collaborative Testing Services, Inc. P.O. Box 650820 Sterling, VA 20165-0820 USA

Please return all pages of this data sheet.

RELEASE OF DATA TO ACCREDITATION BODIES

The following Accreditation Releases will apply only to:

Participant Code:

WebCode:

for Test No. 18-503: Marihuana Identification and THC Quantitation

This release page must be completed and received by <u>August 27, 2018</u> to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

Have the laboratory's designated individual complete the following steps only if your laboratory is accredited in this testing/calibration discipline by one or more of the following Accreditation Bodies.

Step 1: Provide the applicable Accreditation Certificate Number(s) for your laboratory
ANAB Certificate No (Include ASCLD/LAB Certificate here)
A2LA Certificate No.
Step 2: Complete the Laboratory Identifying Information in its entirety
Signature and Title
Laboratory Name
Location (City/State)

Return Instructions

Accreditation Release

Please submit the completed Accreditation Release at the same time as your full data sheet. See Data Sheet Return Instructions on the previous page.

Questions? Contact us 8 am-4:30 pm EST Telephone: +1-571-434-1925 email: forensics@cts-interlab.com

Please return all pages of this data sheet.