## Alcohol Batch Review Checklist

<table>
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<th>Batch Name: ALC_20200814_AAJ</th>
<th>Analyst Review</th>
<th>Technical Review</th>
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<tbody>
<tr>
<td><strong>Worklist</strong></td>
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<tr>
<td>Batch date and instrument used listed</td>
<td>✓</td>
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<tr>
<td>Item(s) tested written for each case</td>
<td>✓</td>
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<tr>
<td>Lot numbers for internal standard, calibrators, and controls listed</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Pipette(s) used listed</td>
<td>✓</td>
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<tr>
<td><strong>Sequence(s)</strong></td>
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<tr>
<td>Verify date is consistent with batch date</td>
<td>✓</td>
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<tr>
<td>All pages accounted for</td>
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<tr>
<td>Verify method used for all samples is correct</td>
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<tr>
<td>Verify internal standard lot number and pipette(s)</td>
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</tr>
<tr>
<td>Verify lot numbers for calibrators and controls</td>
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<tr>
<td>Reviewer verified, initialed, and dated casework sequence</td>
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<tr>
<td>All pages accounted for</td>
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<tr>
<td>Verify R² values are acceptable for reporting analyte(s)</td>
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<td><strong>Data</strong></td>
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<tr>
<td>Verify case specimen internal standard area counts are within range</td>
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<td>Verify calibrator area counts listed in the calibration table for reporting analyte(s)</td>
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<td>Verify symmetry values are acceptable for reporting analyte(s)</td>
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<td>Verify chromatography/resolution is acceptable for reporting analyte(s)</td>
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<td>Verify calibrators and controls are within acceptable range for reporting analyte(s)</td>
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<tr>
<td>Verify all cases listed on worklist have data</td>
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<tr>
<td><strong>Volatile Confirmation Worksheet(s)</strong></td>
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<tr>
<td>Verify aliquot values against Data for reporting analyte(s) for all case specimens</td>
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<td>✓</td>
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<tr>
<td>Verify calculated Reported Result for reporting analyte(s) for all case specimens</td>
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<tr>
<td>Verify calculated Reported UM for reporting analyte(s) for all case specimens</td>
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<td><strong>Case Report(s)</strong></td>
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<td>Verify Reported Result and Reported UM against Volatile Confirmation Worksheet(s) for all case specimens</td>
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<td><strong>Batch Materials</strong></td>
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<td>Review batch date, instrument, and analyst</td>
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<tr>
<td>Review lot numbers for calibrators and controls against those listed on worklist</td>
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<tr>
<td>Review pipette(s) against those listed on worklist</td>
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- Verify batch name is present on all batch records: ✓ ✓
- Verify QCWs were added to QC log: ✓ ✓
- All comments and/or strikethroughs, if any, initialed/signed: ✓ ✓
- All printed pages initialed/signed: ✓ ✓

<table>
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<th>Total number of pages</th>
<th>149</th>
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**Analyst Review**

Signature: Ashley Ann Johnson, M.S.

Date: 08/19/2020

Location: On-site

**Technical Review**

Signature: Andrea Gooden

Date: 08/25/2020

Location: Off-site

LAB-70

Issued By: Manager - Toxicology

Issue Date: 2020-03-27
Batch Name: ALC_20200814_AAJ

Analyst: Johnson, MS, Ashley Ann  
Completed: 8/19/20

Technical Reviewer: Gooden, MS, Andrea  
Completed: 8/25/20

Comments:  
N/A - ASG 08/25/2020

Ashley Ann Johnson, MS  
Forensic Analyst

Andrea Gooden, MS  
Technical Reviewer
Toxicology BAC Batch Materials
Houston Forensic Science Center
500 Jefferson Street, 13th Floor
Houston, Texas 77002
(713) 929-6760

Analyst: Ashley Johnson
Analysis: BAC
Instrument: Headspace 3

Batch Name: ALC_20200814_AAJ
Batch Start Date: 8/14/2020
Batch End Date: 8/19/2020

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Pipette(s)

Hamilton 7903

Comments

Ashley Ann Johnson, M.S.
Digitally signed by Ashley Ann Johnson, M.S.
Date: 2020.08.19 17:44:03 -05'00'

Page 1 of 1
**Acceptance Science Center**

**Volatile Summary**

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<th>Target Value</th>
<th>Calibrator or Control</th>
<th>Ethanol Obtained Value</th>
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<th>% Difference (FID1 &amp; FID2)</th>
<th>Lot #</th>
<th>Manufacturer</th>
<th>% IS Areas Counts Alq1</th>
<th>% IS Areas Counts Alq2</th>
<th>UM %</th>
<th>% Difference (FID1 &amp; FID2)</th>
<th>% Difference (FID1 &amp; FID2)</th>
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**Acceptance Range**

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# Alcohol Batch Worklist

**Request Batch:** ALC_20200814_AAJ

**Assigned To:** Ashley Ann Johnson, MS

## Batch Information

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### ACN

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8/13/2020
<table>
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Allowed to analyze 31 samples. 6/14/2020
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<td>I.S. Lot: 200721-ISB  Pipette: Hamilton 7903</td>
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<td>According to Runtime Checklist</td>
</tr>
<tr>
<td>Update Master Method</td>
<td>No</td>
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### SEQUENCE TABLE:

#### Line 1
- **Line:** 1F
- **Location:** 1
- **Sample Information:** Lot: FN08151901
- **Sample Name:** 0.010 g/100mL Mixed Volatile Calibrator
- **Method Name:** VOLATILES
- **Sample Type:** Calibration
- **Calibration Level:** 1
- **Update RF:** Replace
- **Update RT:** Average

#### Line 2
- **Line:** 2F
- **Location:** 2
- **Sample Information:** Lot: FN08151902
- **Sample Name:** 0.025 g/100mL Mixed Volatile Calibrator
- **Method Name:** VOLATILES
- **Sample Type:** Calibration
- **Calibration Level:** 2
- **Update RF:** Replace
- **Update RT:** Average

#### Line 3
- **Line:** 3F
- **Location:** 3
- **Sample Information:** Lot: FN08151903
- **Sample Name:** 0.050 g/100mL Mixed Volatile Calibrator
- **Method Name:** VOLATILES
- **Sample Type:** Calibration
- **Calibration Level:** 3
- **Update RF:** Replace
- **Update RT:** Average
Line: 4F
Location: 4
Sample Information: Lot: FN08211902
Sample Name: 0.100 g/100mL Mixed Volatile Calibrator
Method Name: VOLATILES
Sample Type: Calibration

---
Calibration Level: 4
Update RF: Replace
Update RT: Average

---

Line: 5F
Location: 5
Sample Information: Lot: FN08211903
Sample Name: 0.200 g/100mL Mixed Volatile Calibrator
Method Name: VOLATILES
Sample Type: Calibration

---
Calibration Level: 5
Update RF: Replace
Update RT: Average

---

Line: 6F
Location: 6
Sample Information: Lot: FN08211904
Sample Name: 0.400 g/100mL Mixed Volatile Calibrator
Method Name: VOLATILES
Sample Type: Calibration

---
Calibration Level: 6
Update RF: Replace
Update RT: Average

---

Line: 7F
Location: 7
Sample Information: Lot: FN08241801
Sample Name: 0.500 g/100mL Ethanol Calibrator
Method Name: VOLATILES
Sample Type: Calibration

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Calibration Level: 7
Update RF: Replace
Update RT: Average

---

Line: 8F
Location: 8
Sample Information: 
Sample Name: Negative Control
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<td>13F</td>
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Method Name : VOLATILES
Sample Type  : Sample

Line : 15F
Location : 15
Sample Information : Alg 1
Sample Name : 2020-06421 001-01
Method Name : VOLATILES
Sample Type  : Sample

Line : 16F
Location : 16
Sample Information : Alg 1
Sample Name : 2020-06422 001-01
Method Name : VOLATILES
Sample Type  : Sample

Line : 17F
Location : 17
Sample Information : Alg 1
Sample Name : 2020-06424 001-01
Method Name : VOLATILES
Sample Type  : Sample

Line : 18F
Location : 18
Sample Information : Alg 1
Sample Name : 2020-06425 001-01
Method Name : VOLATILES
Sample Type  : Sample

Line : 19F
Location : 19
Sample Information : Alg 1
Sample Name : 2020-06470 002-01-01
Method Name : VOLATILES
Sample Type  : Sample

Line : 20F
Location : 20
Sample Information : Alg 1
Sample Name : 2020-06474 001-01

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Method Name : VOLATILES
Sample Type  : Sample

Line          : 21F
Location      : 21
Sample Information : Lot: 1803028-N
Sample Name   : BQC2
Method Name   : VOLATILES
Sample Type   : Sample

Line          : 22F
Location      : 22
Sample Information : Alg 1
Sample Name   : 2020-06476 001-01
Method Name   : VOLATILES
Sample Type   : Sample

Line          : 23F
Location      : 23
Sample Information : Alg 1
Sample Name   : 2020-06477 001-01
Method Name   : VOLATILES
Sample Type   : Sample

Line          : 24F
Location      : 24
Sample Information : Alg 1
Sample Name   : 2020-06478 001-01
Method Name   : VOLATILES
Sample Type   : Sample

Line          : 25F
Location      : 25
Sample Information : Alg 1
Sample Name   : 2020-06479 001-01
Method Name   : VOLATILES
Sample Type   : Sample

Line          : 26F
Location      : 26
Sample Information : Alg 1
Sample Name   : 2020-06480 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 27F
Location : 27
Sample Information : Alq 1
Sample Name : 2020-06482 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 28F
Location : 28
Sample Information : Alq 1
Sample Name : 2020-06483 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 29F
Location : 29
Sample Information : Alq 1
Sample Name : 2020-06485 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 30F
Location : 30
Sample Information : Alq 1
Sample Name : 2020-06486 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 31F
Location : 31
Sample Information : Alq 1
Sample Name : 2020-06488 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 32F
Location : 32
Sample Information : Lot: 1907006-K
Sample Name : BQC1

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Method Name : VOLATILES
Sample Type : Sample

Line : 33F
Location : 33
Sample Information : Alq 1
Sample Name : 2020-06489 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 34F
Location : 34
Sample Information : Alq 1
Sample Name : 2020-06491 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 35F
Location : 35
Sample Information : Alq 1
Sample Name : 2020-06492 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 36F
Location : 36
Sample Information : Alq 1
Sample Name : 2020-06493 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 37F
Location : 37
Sample Information : Alq 1
Sample Name : 2020-06494 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 38F
Location : 38
Sample Information : Alq 1
Sample Name : 2020-06495 001-01
Method Name : VOLATILES
Sample Type  : Sample

Line          : 39F
Location      : 39
Sample Information : Alg 1
Sample Name   : 2020-06496 001-01
Method Name   : VOLATILES
Sample Type   : Sample

Line          : 40F
Location      : 40
Sample Information : Alg 1
Sample Name   : 2020-06514 001-01
Method Name   : VOLATILES
Sample Type   : Sample

Line          : 41F
Location      : 41
Sample Information : Alg 1
Sample Name   : 2020-06519 001-01
Method Name   : VOLATILES
Sample Type   : Sample

Line          : 42F
Location      : 42
Sample Information : Alg 1
Sample Name   : 2020-06525 001-01
Method Name   : VOLATILES
Sample Type   : Sample

Line          : 43F
Location      : 43
Sample Information : Lot: 1803028-N
Sample Name   : BQC2
Method Name   : VOLATILES
Sample Type   : Sample

Line          : 44F
Location      : 44
Sample Information : Alg 1
Sample Name   : 2020-10256 002-01-01

Headspace 3 8/14/2020 3:37:31 PM Ashley Ann Johnson, M.S.
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Headspace 3 8/14/2020 3:37:31 PM Ashley Ann Johnson, M.S.
Method Name : VOLATILES
Sample Type : Sample

Line : 51F
Location : 51
Sample Information : Alq 2
Sample Name : 2020-06496 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 52F
Location : 52
Sample Information : Alq 2
Sample Name : 2020-06495 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 53F
Location : 53
Sample Information : Alq 2
Sample Name : 2020-06494 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 54F
Location : 54
Sample Information : Alq 2
Sample Name : 2020-06493 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 55F
Location : 55
Sample Information : Alq 2
Sample Name : 2020-06492 001-01
Method Name : VOLATILES
Sample Type : Sample

Line : 56F
Location : 56
Sample Information : Alq 2
Sample Name : 2020-06491 001-01
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Headspace 3 8/14/2020 3:37:31 PM Ashley Ann Johnson, M.S.
<table>
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<th>Method Name</th>
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</table>
Method Information

Method: C:\Chem32\1\Methods\VOLATILES.M
Modified: 3/18/2020 at 11:38:05 AM

VOLATILES.M method approved for analysis of casework on May 17, 2016.

Run Time Checklist

Pre-Run Cmd/Macro: off
Data Acquisition: on
Standard Data Analysis: on
Customized Data Analysis: off
Save GLP Data: off
Post-Run Cmd/Macro: off
Save Method with Data: off

Injection Source and Location

Injection Source: MS 10.1.1.102
Injection Location: GC Front
Agilent 7890B

GC
Run Time 4 min
Post Run Time 0 min

Oven
Equilibration Time 3 min
Max Temperature 260 °C
Maximum Temperature Override Disabled
Slow Fan Disabled
Temperature
Setpoint On
(Initial) 40 °C
Hold Time 4 min
Post Run 50 °C

Front SS Inlet He
Mode Split
Heater On 110 °C
Pressure On 24.011 psi
Total Flow On 82.363 mL/min
Septum Purge Flow Off
Gas Saver On 3 mL/min
Split Ratio 10 :1
Split Flow 70 mL/min
Liner Agilent 5190-4047: 65 μL (Straight, Ultra Inert L

Column
Column Outlet Pressure 0 psi
Column Information
Column #1
30 m Rtx-BAC Plus 1
Temperature Range 0 °C–260 °C (260 °C)
Dimensions 30 m x 320 μm x 1.8 μm
Column lock Unlocked
In Front SS Inlet He
Out Front Detector FID
(Initial) 40 °C
Pressure 24.011 psi
Flow 7 mL/min
Average Velocity 80.36 cm/sec
Holdup Time 0.6222 min
Flow
Setpoint On
(Initial) 7 mL/min
Post Run 7 mL/min

Column #2
Column Information
30 m Rtx-BAC Plus 2
Temperature Range 0 °C–260 °C (260 °C)
Dimensions 30 m x 320 μm x 0.6 μm
Column lock Unlocked
Front SS Inlet He
Back Detector FID
40 °C
24.011 psi
7.2148 mL/min
81.584 cm/sec
0.61287 min
On
24.011 psi
10 psi

Front Detector FID
Makeup
Heater
H2 Flow
Air Flow
Makeup Flow
Carrier Gas Flow Correction
Flame
N2
On 250 °C
On 30 mL/min
On 400 mL/min
On 25 mL/min
Does not affect Makeup or Fuel Flow
On

Back Detector FID
Makeup
Column Compensation
Heater
H2 Flow
Air Flow
Makeup Flow
Carrier Gas Flow Correction
Flame
N2
Signal is modified by Column Compensation Curve #
On 250 °C
On 30 mL/min
On 400 mL/min
On 25 mL/min
Does not affect Makeup or Fuel Flow
On

Signals
Signal #1: Front Signal
Description
Details
Save
Data Rate
Front Signal
Front Signal (FID)
On
20 Hz

Signal #2: Back Signal
Description
Details
Save
Data Rate
Back Signal
Back Signal (FID)
On
20 Hz

Signal #3: Test Plot
Description
Details
Save
Data Rate
Test Plot
Off
50 Hz

Signal #4: Test Plot
Description
Details
Save
Data Rate
Test Plot
Off
50 Hz
Agilent 7697A

Instrument Info
Address: 10.1.1.102
Serial Number: CN16140002
Firmware Revision: A.01.08

Instrument Settings
Vial Pressurization Gas: Nitrogen
Loop Size (mL): 1
Keyboard Lock: OFF
Transfer Line Type: Fused Silica
Transfer Line Diameter (mm): 0.53

System Configuration
Carrier Control: GC Instrument

Resource Conservation
Vial Standby Flow (mL/min): 20

Temperature Settings:
Oven Temperature (°C): 70
Loop Temperature (°C): 70
Transfer Line Temperature (°C): 90

Timing Settings:
Vial Equilibration (min): 7.00
Injection Duration (min): 0.50
GC Cycle Time (min): 4.50

Vial and Loop Settings:
Vial Size: 20
Vial Shaking: OFF
Fill Mode: Default
Fill Pressure (psi): 10
Loop Fill Mode: Custom
Loop Ramp Rate (psi/min): 30
Loop Final Pressure (psi): 1.5
Loop Equilibration Time: 0.05

Carrier Settings:
Carrier Control Mode: GC controls Carrier

Advanced Settings:
Extraction Mode: Single Extraction
Vent After Extraction: ON
Post Injection Purge: Default, 100 mL/min for 1 min
Acceptable Leak Check: Default, 0.2mL/min
The Data Analysis Parameters of the used Method are:

---

Integration Events
---

---

Non signal specific Integration Events
---

<table>
<thead>
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<th>Event</th>
<th>Value</th>
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<td>Front Peak Skim Height Ratio</td>
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Default Integration Event Table "Event"
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Detector Default Integration Event Table "Event_ADC"
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Signal Specific Integration Event Table "Event_FID1A"

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Apply Method's Manual Integration Events: No
Calibration Table

General Calibration Setting

Calib. Data Modified : 8/14/2020 5:23:17 PM ✓
Signals calculated separately : No

Rel. Reference Window : 2.000 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 2.000 %
Abs. Non-ref. Window : 0.000 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Linear (Amnt)

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
  Calibration Table after Recalibration
  Normal Report after Recalibration
If the sequence is done with bracketing:
  Results of first cycle (ending previous bracket)

Sample ISTD Information:
ISTS  ISTD Amount    Name
#  [g/100 mL]
----|-------------------|--------------
2   1.00000e-2      n-Propanol
1   1.00000e-2      n-Propanol


Signal Details

Signal 1: FID1 A, Front Signal
Signal 2: FID2 B, Back Signal

Overview Table

[Signature]
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<th>Compound</th>
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<td>n-Propanol</td>
</tr>
</tbody>
</table>

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**Peak Sum Table**

---

***No Entries in table***

---

155 Warnings or Errors (10 first messages follow):

Warning: Curve requires more calibration points., (n-Propanol)
Warning: Curve requires more calibration points. at 1.6 min, signal 2
Warning: Curve requires more calibration points. at 1.947 min, signal 1
Warning: Curve requires more calibration points. at 1.6 min, signal 2
Warning: Curve requires more calibration points. at 1.947 min, signal 1
Warning: Curve requires more calibration points. at 1.6 min, signal 2
Warning: Curve requires more calibration points. at 1.947 min, signal 1
Warning: Curve requires more calibration points. at 1.6 min, signal 2

---

**Calibration Curves**

---

**Methanol at exp. RT: 0.867**

FID2 B, Back Signal

Correlation: 1.000000

Residual Std. Dev.: 0.00145

Formula: \( y = mx + b \)

\( m: \) 3.22093e-2

\( b: \) 7.57642e-5

\( x: \) Amount Ratio

\( y: \) Area Ratio

Calibration Level Weights:

<table>
<thead>
<tr>
<th>Level</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tr>
<tr>
<td>2</td>
<td>0.4</td>
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<tr>
<td>3</td>
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<td>4</td>
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</tr>
<tr>
<td>5</td>
<td>0.05</td>
</tr>
<tr>
<td>6</td>
<td>0.025</td>
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Headspace 3 8/17/2020 7:47:29 AM Ashley Ann Johnson, M.S.
Methanol at exp. RT: 0.934
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00105
Formula: \( y = mx + b \)
\[
\begin{align*}
m & : 3.22409e-2 \\
b & : -1.11460e-4 \\
x & : \text{Amount Ratio} \\
y & : \text{Area Ratio}
\end{align*}
\]
Calibration Level Weights:
- Level 1 : 1
- Level 2 : 0.4
- Level 3 : 0.2
- Level 4 : 0.1
- Level 5 : 0.05
- Level 6 : 0.025

Ethanol at exp. RT: 1.026
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00301
Formula: \( y = mx + b \)
\[
\begin{align*}
m & : 6.53727e-2 \\
b & : -5.25679e-5 \\
x & : \text{Amount Ratio} \\
y & : \text{Area Ratio}
\end{align*}
\]
Calibration Level Weights:
- Level 1 : 1
- Level 2 : 0.4
- Level 3 : 0.2
- Level 4 : 0.1
- Level 5 : 0.05
- Level 6 : 0.025
- Level 7 : 0.02

Acetone at exp. RT: 1.099
FID2 B, Back Signal
Correlation: 0.99999
Residual Std. Dev.: 0.01225
Formula: \( y = mx + b \)
\[
\begin{align*}
m & : 2.49513e-1 \\
b & : 5.11880e-3 \\
x & : \text{Amount Ratio} \\
y & : \text{Area Ratio}
\end{align*}
\]
Calibration Level Weights:
- Level 1 : 1
- Level 2 : 0.4
- Level 3 : 0.2
- Level 4 : 0.1
- Level 5 : 0.05
- Level 6 : 0.025

---

Headspace 3 8/17/2020 7:47:29 AM Ashley Ann Johnson, M.S.
Isopropanol at exp. RT: 1.161
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00283
Formula: y = mx + b
m: 1.26218e-1
b: -1.14415e-4
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.4
Level 3 : 0.2
Level 4 : 0.1
Level 5 : 0.05
Level 6 : 0.025

Ethanol at exp. RT: 1.169
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00142
Formula: y = mx + b
m: 6.53610e-2
b: -1.06393e-3
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.4
Level 3 : 0.2
Level 4 : 0.1
Level 5 : 0.05
Level 6 : 0.025
Level 7 : 0.02

Isopropanol at exp. RT: 1.421
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00173
Formula: y = mx + b
m: 1.25928e-1
b: -2.06645e-3
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.4
Level 3 : 0.2
Level 4 : 0.1
Level 5 : 0.05
Level 6 : 0.025
Acetone at exp. RT: 1.541
FID1 A, Front Signal
Correlation: 0.99999
Residual Std. Dev.: 0.01052
Formula: \( y = mx + b \)
\( m: 2.48885e-1 \)
\( b: 2.34581e-3 \)
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.4
Level 3 : 0.2
Level 4 : 0.1
Level 5 : 0.05
Level 6 : 0.025

n-Propanol at exp. RT: 1.600
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: \( y = mx + b \)
\( m: 1.00000 \)
\( b: 0.00000 \)
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 1
Level 3 : 1
Level 4 : 1
Level 5 : 1
Level 6 : 1
Level 7 : 1

n-Propanol at exp. RT: 1.947
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: \( y = mx + b \)
\( m: 1.00000 \)
\( b: 0.00000 \)
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 1
Level 3 : 1
Level 4 : 1
Level 5 : 1
Level 6 : 1
Level 7 : 1

====================================================================
### Compound Analysis

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<tr>
<th>Name</th>
<th>FID1A</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100mL]</th>
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<tbody>
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<th>Expected RT [min]</th>
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### FID1A, Peak Signal

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<th>Expected RT [min]</th>
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Houston Forensic Science Center, Inc.
Forensic Analysis Division
Toxicology - Volatile Analysis Chromatograms

Sample name: 0.050 g/100mL Mixed Volatile Calibrator  Description: Lot: FN08151903  Vial Number: 3
Instrument: Headspace 3  Acq. method: VOLATILES.M  Injection date: 8/14/2020 4:58:29 PM
Data file: C:\Chem32\1Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\003F0301.D

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<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT[min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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**Sample name:** 0.500 g/100mL Ethanol Calibrator  
**Description:** Lot: FN08241801  
**Vial Number:** 7  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 5:19:15 PM  
**Data file:** C:\Chem32\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\007F0701.D

<table>
<thead>
<tr>
<th>Name</th>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
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**Description:**  
**Vial Number:** 8  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 5:23:45 PM  
**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\008F0801.D

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### Chromatograms

#### FID1A, Front Signal

#### FID2B, Back Signal

---

### Table: n-Propanol Analysis

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<th>Expected RT [min]</th>
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# Houston Forensic Science Center, Inc.
Forensic Analysis Division
Toxicology - Volatile Analysis Chromatograms

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### FID1A, Front Signal

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### Houston Forensic Science Center, Inc.
Forensic Analysis Division
Toxicology - Volatile Analysis Chromatograms

**Sample name:** BQC1  
**Description:** Lot: 1907006-K  
**Vial Number:** 32  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 7:28:23 PM  
**Data file:** C:\Chem32\l\Data\20200814_AAJ\2020-08-14 16-38-57\032F3201.D

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**Name**  
**FID1A**

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Vial Number: 43
Instrument: Headspace 3
Acq. method: VOLATILES.M
Injection date: 8/14/2020 8:26:10 PM
Data file: C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\043F4301.D

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## Houston Forensic Science Center, Inc.
Forensic Analysis Division
Toxicology - Volatile Analysis Chromatograms

**Sample name:** BQC1  
**Description:** Lot: 1907006-K  
**Vial Number:** 45

**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 8:36:32 PM

**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\045F4501.D

### Chromatogram - FID1A, Front Signal

### Chromatogram - FID2B, Back Signal

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### Chromatogram - FID1A

### Chromatogram - FID2B

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**Injection date:** 8/14/2020 8:46:55 PM  
**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\047F4701.D

## Chromatograms

**FID1A, Front Signal**

**FID2B, Back Signal**

## Analysis Results

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<td>Peak to Valley Ratio</td>
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## Houston Forensic Science Center, Inc.
### Forensic Analysis Division
#### Toxicology - Volatile Analysis Chromatograms

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<th>FID1A</th>
<th>FID2B</th>
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### Table 1

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<th>Area</th>
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### FID2B, Back Signal

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<th>Area</th>
<th>Concentration [g/100 mL]</th>
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### Sample Name: DI Water  
**Description:**  
**Vial Number:** 83  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 11:53:50 PM  
**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\083F8301.D

**Name**  
**Compound** | **Peak Symmetry** | **Peak to Valley Ratio** | **RT [min]** | **Expected RT [min]** | **Area** | **Concentration [g/100 mL]**
---|---|---|---|---|---|---
n-Propanol | 0.85566 | 1.947 | 1.948 | 223.9697 | 0.0100

**Name**  
**Compound** | **Peak Symmetry** | **Peak to Valley Ratio** | **RT [min]** | **Expected RT [min]** | **Area** | **Concentration [g/100 mL]**
---|---|---|---|---|---|---
n-Propanol | 0.93794 | 1.600 | 1.600 | 249.8419 | 0.0100
Sample name: Air Control
Instrument: Headspace 3
Acq. method: VOLATILES.M
Injection date: 8/14/2020 11:58:21 PM
Data file: C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\084F8401.D
Sample name: Air Control
Instrument: Headspace 3
Acq. method: VOLATILES.M
Injection date: 8/15/2020 12:04:13 AM
Data file: C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\085F8501.D
Lab Number/Item Number: 2020-06409 002-01-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☑ Blood ☐ Liquid ☐ Other: __________

Results:

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Reported Result: 0.109 g/100 mL
Reported UM: 0.010 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
### Table 1: Chromatograms

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<th>Compound</th>
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<th>RT [min]</th>
<th>Expected RT[min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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</thead>
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### Table 2: Chromatograms

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<th>Expected RT[min]</th>
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Acetone and Isopropanol < LOQ. - AAJ 8/17/2020
### Name: FID1A

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### Name: FID2B

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**Acetone and Isopropanol < LOQ. - AAJ 8/17/2020**
Lab Number/Item Number: 2020-06414 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: □ Blood □ Liquid □ Other: ____________

Results:

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Reported Result: 0.286 g/100 mL
Reported UM: 0.027 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
### Headspace 3

**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 5:44:31 PM  
**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\012F1201.D

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Acetone < LOQ. - AAJ 8/17/2020
Houston Forensic Science Center, Inc.
Forensic Analysis Division
Toxicology - Volatile Analysis Chromatograms

Sample name: 2020-06414 001-01  Description: Alq 2  Vial Number: 78
Instrument: Headspace 3  Acq. method: VOLATILES.M  Injection date: 8/14/2020 11:27:12 PM
Data file: C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\078F7801.D

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<th>Expected RT[min]</th>
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<table>
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<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT[min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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<td>1.600</td>
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Acetone < LOQ. - AAJ 8/17/2020

Printed: 8/17/2020 7:49:30 AM  Page 1 of 1
Volatile Confirmation Worksheet

Lab Number/Item Number: 2020-06419 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☑ Blood ☐ Liquid ☐ Other: ______________

Results:

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<th>Ethanol</th>
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<tbody>
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Reported Result: 0.019 g/100 mL  
Reported UM: 0.002 g/100 mL

Comments: 

Total Number of Printed Examination Pages: 0
### Houston Forensic Science Center, Inc.
Forensic Analysis Division
Toxicology - Volatile Analysis Chromatograms

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#### Name: FID1A

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<th>Expected RT[min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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</thead>
<tbody>
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#### Name: FID2B

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<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT[min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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</thead>
<tbody>
<tr>
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Printed: 8/17/2020 7:48:20 AM
Sample name: 2020-06419 001-01  Description: Alq 2  Vial Number: 77  
Data file: C:\Chem321\Data\ALC_20200814xAAJ\ALC_20200814xAAJ 2020-08-14 16-38-57\077F7701.D

### FID1A

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<th>Compound</th>
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<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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<td>0.85241</td>
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<td>1.169</td>
<td>26.2985</td>
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<td>n-Propanol</td>
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### FID2B

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<th>Expected RT [min]</th>
<th>Area</th>
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Volatile Confirmation Worksheet

Lab Number/Item Number: 2020-06420 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☐ Blood ☐ Liquid ☐ Other: ________________

Results:

<table>
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<th>FID2</th>
</tr>
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<tbody>
<tr>
<td>Ethanol</td>
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<td></td>
</tr>
<tr>
<td>Aliquot 1:</td>
<td>0.0825</td>
<td>0.0838</td>
</tr>
<tr>
<td>Aliquot 2:</td>
<td>0.0821</td>
<td>0.0830</td>
</tr>
</tbody>
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Reported Result: 0.082 g/100 mL
Reported UM: 0.008 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
### Volatile Analysis Chromatograms

#### Sample name: 2020-06420 001-01
#### Instrument: Headspace 3
#### Acq. method: VOLATILES.M
#### Data file: C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\014F1401.D

<table>
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<tr>
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<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT[min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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<tbody>
<tr>
<td>Ethanol</td>
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#### Name: FID2B

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<th>Area</th>
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### Sample Information

- **Sample name:** 2020-06420 001-01
- **Description:** Alq 2
- **Vial Number:** 76
- **Instrument:** Headspace 3
- **Acq. method:** VOLATILES.M
- **Injection date:** 8/14/2020 11:16:50 PM
- **Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\076F7601.D

### Chromatograms

#### FID1A

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<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>n-Propanol</td>
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#### FID2B

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<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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<tr>
<td>Ethanol</td>
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Volatile Confirmation Worksheet

Lab Number/Item Number: 2020-06421 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☐ Blood ☐ Liquid ☐ Other: ________________

Results:

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<tr>
<th></th>
<th>FID1</th>
<th>FID2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
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<td></td>
</tr>
<tr>
<td>Aliquot 1:</td>
<td>0.0962</td>
<td>0.0983</td>
</tr>
<tr>
<td>Aliquot 2:</td>
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<td>0.0969</td>
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</table>

Reported Result: 0.096 g/100 mL
Reported UM: 0.009 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
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<th>Expected RT [min]</th>
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<tbody>
<tr>
<td>Ethanol</td>
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<td>n-Propanol</td>
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<table>
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<tr>
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<th>Expected RT [min]</th>
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</table>
Houston Forensic Science Center, Inc.
Forensic Analysis Division
Toxicology - Volatile Analysis Chromatograms

Sample name: 2020-06421 001-01
Description: Alq 2
Vial Number: 75
Instrument: Headspace 3
Acq. method: VOLATILES.M
Injection date: 8/14/2020 11:12:18 PM
Data file: C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\075F7501.D

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<th>Expected RT[min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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<tr>
<td>n-Propanol</td>
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</tr>
</tbody>
</table>

<table>
<thead>
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<th>Expected RT[min]</th>
<th>Area</th>
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</table>
**Volatile Confirmation Worksheet**

**Lab Number/Item Number:** 2020-06422 001-01

**Batch Name:** ALC_20200814_AAJ  
**Instrument:** Headspace 3  
**Analyst:** Ashley Ann Johnson, M.S.

**Specimen type:**  
- Blood  
- Liquid  
- Other: ________________

**Results:**

<table>
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<tr>
<th>Specimen</th>
<th>FID1</th>
<th>FID2</th>
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<tbody>
<tr>
<td>Ethanol</td>
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</tr>
<tr>
<td>Aliquot 1</td>
<td>0.3285</td>
<td>0.3306</td>
</tr>
<tr>
<td>Aliquot 2</td>
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<td>0.3296</td>
</tr>
</tbody>
</table>

**Reported Result:** 0.328 g/100 mL  
**Reported UM:** 0.031 g/100 mL

**Comments:**

**Total Number of Printed Examination Pages:** 0
**Sample name:** 2020-06422 001-01  
**Description:** Alq 1  
**Vial Number:** 16  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 6:05:17 PM  
**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\016F1601.D

### Name: FID1A

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### Name: FID2B

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<th>RT [min]</th>
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### FID1A

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### FID2B

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<th>RT [min]</th>
<th>Expected RT [min]</th>
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Volatile Confirmation Worksheet

Lab Number/Item Number: 2020-06424 001-01

Batch Name: ALC_20200814-AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: Blood Liquid Other: 

Results:

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<tr>
<td>Aliquot 2:</td>
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<td>0.2452</td>
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</table>

 Reported Result: 0.242 g/100 mL
 Reported UM: 0.023 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
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<th>Expected RT [min]</th>
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<tbody>
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<th>RT [min]</th>
<th>Expected RT [min]</th>
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### FID2B, Back Signal

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<th>Expected RT [min]</th>
<th>Area</th>
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<tbody>
<tr>
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Lab Number/Item Number: 2020-06425 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☐ Blood ☐ Liquid ☐ Other: ________________

Results:

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
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<tr>
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</tr>
<tr>
<td>Aliquot 2:</td>
<td>0.1406</td>
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</table>

Reported Result: __0.140____ g/100 mL
Reported UM: __0.013____ g/100 mL

Comments:

Total Number of Printed Examination Pages: _____0_____
### Houston Forensic Science Center, Inc.
Forensic Analysis Division
Toxicology - Volatile Analysis Chromatograms

#### Sample Information:
- **Sample name:** 2020-06425 001-01
- **Description:** Alq 1
- **Vial Number:** 18
- **Instrument:** Headspace 3
- **Acq. method:** VOLATILES.M
- **Injection date:** 8/14/2020 6:15:40 PM
- **Data file:** C:\Chem32\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\018F1801.D

#### Chromatograms:
- **FID1A, Front Signal**
- **FID2B, Back Signal**

#### Compounds and Analysis:

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<thead>
<tr>
<th>Name</th>
<th>FID1A</th>
<th>FID2B</th>
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<tbody>
<tr>
<td><strong>Compound</strong></td>
<td><strong>Peak Symmetry</strong></td>
<td><strong>Peak to Valley Ratio</strong></td>
</tr>
<tr>
<td>Ethanol</td>
<td>0.90857</td>
<td>1.170</td>
</tr>
<tr>
<td>n-Propanol</td>
<td>0.86205</td>
<td>1.948</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Name</th>
<th>FID2B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Compound</strong></td>
<td><strong>Peak Symmetry</strong></td>
</tr>
<tr>
<td>Ethanol</td>
<td>1.00577</td>
</tr>
<tr>
<td>n-Propanol</td>
<td>0.93277</td>
</tr>
</tbody>
</table>
### FID1A, Front Signal

<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>0.90583</td>
<td>1.170</td>
<td>1.169</td>
<td>202.9371</td>
<td>0.1406</td>
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</tr>
<tr>
<td>n-Propanol</td>
<td>0.85199</td>
<td>1.948</td>
<td>1.947</td>
<td>221.1342</td>
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### FID2B, Back Signal

<table>
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<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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<tbody>
<tr>
<td>Ethanol</td>
<td>1.00159</td>
<td>1.027</td>
<td>1.026</td>
<td>227.0516</td>
<td>0.1406</td>
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</tr>
<tr>
<td>n-Propanol</td>
<td>0.93214</td>
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<td>1.600</td>
<td>247.0739</td>
<td>0.0100</td>
<td></td>
</tr>
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</table>
Lab Number/Item Number: 2020-06470 002-01-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: □ Blood □ Liquid □ Other: _________________

Results:

Ethanol

<table>
<thead>
<tr>
<th></th>
<th>FID1</th>
<th>FID2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliquot 1</td>
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<td>0.0000</td>
</tr>
<tr>
<td>Aliquot 2</td>
<td>0.0000</td>
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</tr>
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none detected

Reported Result: __________________

Reported UM: _________________

Comments:

Total Number of Printed Examination Pages: 0
Sample name: 2020-06470 002-01-01
Instrument: Headspace 3
Acq. method: VOLATILES.M
Injection date: 8/14/2020 6:21:33 PM
Data file: C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\019F1901.D

<table>
<thead>
<tr>
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<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT[min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>0.90979</td>
<td></td>
<td>1.544</td>
<td>1.541</td>
<td>15.4177</td>
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<tr>
<td>n-Propanol</td>
<td>0.86504</td>
<td></td>
<td>1.948</td>
<td>1.947</td>
<td>226.4375</td>
<td>0.0100</td>
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</tbody>
</table>

| Name          | FID2B
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Compound</td>
<td>Peak Symmetry</td>
<td>Peak to Valley Ratio</td>
<td>RT [min]</td>
<td>Expected RT[min]</td>
<td>Area</td>
<td>Concentration [g/100 mL]</td>
</tr>
<tr>
<td>Acetone</td>
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<td>1.099</td>
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<td>0.0024</td>
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<td>n-Propanol</td>
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<td>1.600</td>
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Acetone < LOQ. - AAJ 8/17/2020
## Sample Information

**Sample name:** 2020-06470 002-01-01  
**Description:** Alq 2  
**Vial Number:** 71  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 10:51:31 PM  
**Data file:** C:\Chem32\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\071F7101.D

## Chromatogram Data

### FID1A

<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>0.93228</td>
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<td>1.544</td>
<td>1.541</td>
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<td>n-Propanol</td>
<td>0.85705</td>
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<td>214.5517</td>
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### FID2B

<table>
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<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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</thead>
<tbody>
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</tr>
<tr>
<td>n-Propanol</td>
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<td></td>
<td>1.601</td>
<td>1.600</td>
<td>239.2419</td>
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</table>

Acetone < LOQ. - AAJ 8/17/2020
### Volatile Confirmation Worksheet

**Lab Number/Item Number:** 2020-06474 001-01

**Batch Name:** ALC_20200814_AAJ  
**Instrument:** Headspace 3  
**Analyst:** Ashley Ann Johnson, M.S.

**Specimen type:**  
- [ ] Blood  
- [ ] Liquid  
- [ ] Other: ______________

**Results:**

<table>
<thead>
<tr>
<th>Substance</th>
<th>FID1</th>
<th>FID2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
</tbody>
</table>

Aliquot 1: 0.0000  
Aliquot 2: 0.0000

**Comment:** none

**Reported Result:** detected  
**Reported UM:** __________

**Comments:**

**Total Number of Printed Examination Pages:** 0
### n-Propanol

<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propanol</td>
<td>0.86034</td>
<td>1.947</td>
<td>1.948</td>
<td>1.947</td>
<td>224.9521</td>
<td>0.0100</td>
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</tbody>
</table>

### Acetone

<table>
<thead>
<tr>
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<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>0.72719</td>
<td>1.099</td>
<td>1.101</td>
<td>1.099</td>
<td>4.0944</td>
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<td>n-Propanol</td>
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<td>1.600</td>
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### Sample Information
- **Sample name:** 2020-06474 001-01
- **Description:** Alq 2
- **Vial Number:** 70
- **Instrument:** Headspace 3
- **Acq. method:** VOLATILES.M
- **Injection date:** 8/14/2020 10:45:41 PM
- **Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\070F7001.D

### Chromatograms
- **FID1A:** Front Signal
- **FID2B:** Back Signal

### Compound Analysis
#### Name: FID1A
<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propanol</td>
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<td>1.947</td>
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#### Name: FID2B
<table>
<thead>
<tr>
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<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>0.71083</td>
<td>1.101</td>
<td>1.099</td>
<td>4.0268</td>
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<td>1.600</td>
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<td>0.0100</td>
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</table>
Lab Number/Item Number: 2020-06476 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: 
- Blood
- Liquid
- Other: 

Results:

<table>
<thead>
<tr>
<th>Specimen</th>
<th>FID1</th>
<th>FID2</th>
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<tbody>
<tr>
<td>Ethanol</td>
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<td></td>
</tr>
<tr>
<td>Aliquot 1</td>
<td>0.2340</td>
<td>0.2362</td>
</tr>
<tr>
<td>Aliquot 2</td>
<td>0.2353</td>
<td>0.2361</td>
</tr>
</tbody>
</table>

Reported Result: 0.234 g/100 mL
Reported UM: 0.022 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
<table>
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<th>Compound</th>
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<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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</thead>
<tbody>
<tr>
<td>Ethanol</td>
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<td>1.169</td>
<td>348.6505</td>
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<tr>
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<td>1.947</td>
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<table>
<thead>
<tr>
<th>Compound</th>
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<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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</thead>
<tbody>
<tr>
<td>Ethanol</td>
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<td>392.7182</td>
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<td>1.600</td>
<td>254.3008</td>
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</table>
### Houston Forensic Science Center, Inc.
Forensic Analysis Division
Toxicology - Volatile Analysis Chromatograms

<table>
<thead>
<tr>
<th>Sample name: 2020-06476 001-01</th>
<th>Description: Alq 2</th>
<th>Vial Number: 68</th>
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<tbody>
<tr>
<td>Instrument: Headspace 3</td>
<td>Acq. method: VOLATILES.M</td>
<td>Injection date: 8/14/2020 10:35:17 PM</td>
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</tr>
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#### FID1A, Front Signal

<table>
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<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT[min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1.170</td>
<td>1.169</td>
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</tr>
<tr>
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<td></td>
<td>1.948</td>
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</table>

#### FID2B, Back Signal

<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT[min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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</thead>
<tbody>
<tr>
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Lab Number/Item Number: 2020-06477 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☐ Blood ☐ Liquid ☐ Other: _______________

Results:

<table>
<thead>
<tr>
<th></th>
<th>FID1</th>
<th>FID2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aliquot 1:</td>
<td>0.2679</td>
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</tr>
<tr>
<td>Aliquot 2:</td>
<td>0.2716</td>
<td>0.2738</td>
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</table>

Reported Result: 0.269 g/100 mL
Reported UM: 0.025 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
### Compound Analysis

#### FID1A

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<tr>
<th>Compound</th>
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<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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</thead>
<tbody>
<tr>
<td>Ethanol</td>
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<td>1.169</td>
<td>1.169</td>
<td>393.1519</td>
<td>0.2679</td>
</tr>
<tr>
<td>n-Propanol</td>
<td>0.86142</td>
<td>1.948</td>
<td>1.947</td>
<td>1.947</td>
<td>224.6516</td>
<td>0.0100</td>
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</table>

#### FID2B

<table>
<thead>
<tr>
<th>Compound</th>
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<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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</thead>
<tbody>
<tr>
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### FID1A

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<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
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<td>1.169</td>
<td>393.9302</td>
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</tr>
<tr>
<td>n-Propanol</td>
<td>0.85623</td>
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<td>1.948</td>
<td>1.947</td>
<td>222.509</td>
<td>0.0100</td>
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### FID2B

<table>
<thead>
<tr>
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<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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</thead>
<tbody>
<tr>
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<td>1.026</td>
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<td>0.2738</td>
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<td>n-Propanol</td>
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<td>1.600</td>
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</table>
### Volatile Confirmation Worksheet

**Lab Number/Item Number:** 2020-06478 001-01

**Batch Name:** ALC_20200814_AAJ  
**Instrument:** Headspace 3  
**Analyst:** Ashley Ann Johnson, M.S.

**Specimen type:**  
- [ ] Blood  
- [ ] Liquid  
- [ ] Other: ______________________

**Results:**

<table>
<thead>
<tr>
<th>Specimen</th>
<th>FID1</th>
<th>FID2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aliquot 1:</td>
<td>0.1920</td>
<td>0.1923</td>
</tr>
<tr>
<td>Aliquot 2:</td>
<td>0.1927</td>
<td>0.1926</td>
</tr>
</tbody>
</table>

**Reported Result:** 0.192 g/100 mL  
**Reported UM:** 0.018 g/100 mL

**Comments:**

---

**Total Number of Printed Examination Pages:** 0
## Houston Forensic Science Center, Inc.
### Forensic Analysis Division
#### Toxicology - Volatile Analysis Chromatograms

**Sample name:** 2020-06478 001-01  
**Description:** Alq 1  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Vial Number:** 24  
**Injection date:** 8/14/2020 6:46:49 PM  
**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\024F2401.D

### Chromatograms

#### FID1A, Front Signal

#### FID2B, Back Signal

<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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<th>Expected RT [min]</th>
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### FID2B: Back Signal

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Lab Number/Item Number: 2020-06479 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: □ Blood □ Liquid □ Other: ____________

Results:

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<td>Aliquot 2</td>
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Reported Result: none detected
Reported UM: ____________

Comments:

Total Number of Printed Examination Pages: 0
### Houston Forensic Science Center, Inc.
Forensic Analysis Division
Toxicology - Volatile Analysis Chromatograms

Sample name: 2020-06479 001-01  
Description: Alq 1  
Vial Number: 25

Instrument: Headspace 3  
Acq. method: VOLATILES.M  
Injection date: 8/14/2020 6:52:42 PM

Data file: C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\025F2501.D

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<th>FID2B</th>
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<td><strong>Peak to Valley Ratio</strong></td>
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### Compounds Analysis

#### FID1A

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Lab Number/Item Number: 2020-06480 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: □ Blood  □ Liquid  □ Other: _______________________

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none detected

Reported Result: detected
Reported UM: ___________

Comments:

Total Number of Printed Examination Pages: 0
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Acetone < LOQ. - AAJ 8/17/2020
Acetone < LOQ. - AAJ 8/17/2020
VolatILE Confirmation Worksheet

Lab Number/Item Number: 2020-06482 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☐ Blood ☐ Liquid ☐ Other: _________________

Results:

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<td>0.1106</td>
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Reported Result: 0.109 g/100 mL
Reported UM: 0.010 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
### Toxicology - Volatile Analysis Chromatograms

**Sample name:** 2020-06482 001-01  
**Description:** Alq 1  
**Vial Number:** 27  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 7:03:05 PM  
**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\027F2701.D

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Lab Number/Item Number: 2020-06483 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☐ Blood  ☐ Liquid  ☐ Other: _____________

Results:

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Reported Result: 0.073 g/100 mL
Reported UM: 0.007 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
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Lab Number/Item Number: 2020-06485 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☑ Blood ☐ Liquid ☐ Other: ________________

Results:

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<tr>
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Reported Result: 0.178 g/100 mL
Reported UM: 0.017 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
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### Sample Information
- **Sample name:** 2020-06485 001-01
- **Description:** Alq 2
- **Vial Number:** 61
- **Instrument:** Headspace 3
- **Acq. method:** VOLATILES.M
- **Injection date:** 8/14/2020 9:59:37 PM
- **Data file:** C:\Chem32\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\061F6101.D

### Chromatograms

#### FID1A, Front Signal

#### FID2B, Back Signal

### Results

#### Compound List

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<th>Expected RT[min]</th>
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#### Name FID2B

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Volatile Confirmation Worksheet

Lab Number/Item Number: 2020-06486 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☐ Blood ☐ Liquid ☐ Other: __________

Results:

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Reported Result: 0.143 g/100 mL
Reported UM: 0.014 g/100 mL

Comments: 

Total Number of Printed Examination Pages: 0
### Toxicology - Volatile Analysis Chromatograms

**Sample name:** 2020-06486 001-01  
**Description:** Alq 1  
**Vial Number:** 30  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 7:17:59 PM  
**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\030F3001.D

#### FID1A

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### Houston Forensic Science Center, Inc.
Forensic Analysis Division
Toxicology - Volatile Analysis Chromatograms

**Sample name:** 2020-06486 001-01  
**Description:** Alq 2  
**Vial Number:** 60  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 9:53:44 PM  
**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\060F6001.D

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| Name | FID2B
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Volatile Confirmation Worksheet

Lab Number/Item Number: 2020-06488 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☑ Blood ☑ Liquid ☐ Other: __________

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Reported Result: 0.072 g/100 mL
Reported UM: 0.007 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0

LAB-51
Issued By: Manager - Toxicology
Issue Date: 2020-05-11
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Lab Number/Item Number: 2020-06489 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☑ Blood ☐ Liquid ☐ Other: 

Results:

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<td>Aliquot 1:</td>
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<td>Aliquot 2:</td>
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Reported Result: 0.175 g/100 mL
Reported UM: 0.017 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
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### Houston Forensic Science Center, Inc.
Forensic Analysis Division
Toxicology - Volatile Analysis Chromatograms

**Sample name:** 2020-06489 001-01  
**Description:** Alq 2  
**Vial Number:** 57  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 9:38:50 PM  
**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\057F5701.D

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#### FID2B, Back Signal

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Volatile Confirmation Worksheet

Lab Number/Item Number: 2020-06491 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☐ Blood ☐ Liquid ☐ Other: __________

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<tr>
<td>Aliquot 1:</td>
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<tr>
<td>Aliquot 2:</td>
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Reported Result: 0.110 g/100 mL
Reported UM: 0.010 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
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Name: FID1A

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Name: FID2B
Lab Number/Item Number: 2020-06492 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☐ Blood ☐ Liquid ☐ Other: 

Results:

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<td>Aliquot 2:</td>
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Reported Result: 0.196 g/100 mL
Reported UM: 0.019 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
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**FID1A, Front Signal**

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**FID2B, Back Signal**

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| Name       | FID1A         |                      |          |                   |          |                          |

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Lab Number/Item Number: 2020-06493 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☐ Blood ☐ Liquid ☐ Other: _______________

Results:

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<th>FID2</th>
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none detected

Reported Result: 
Reported UM: ____________

Comments:

Total Number of Printed Examination Pages: __0__
Sample name: 2020-06493 001-01  
Description: Alq 1  
Vial Number: 36

Instrument: Headspace 3  
Acq. method: VOLATILES.M  
Injection date: 8/14/2020 7:49:08 PM

Data file: C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\036F3601.D

### Table 1: n-Propanol Analysis

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<th>Name</th>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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<tbody>
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<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
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### Toxicology - Volatile Analysis Chromatograms

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#### Compounds

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<table>
<thead>
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Lab Number/Item Number: 2020-06494 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☐ Blood ☐ Liquid ☐ Other: ______________

Results:

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<th>FID2</th>
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<tr>
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Reported Result: 0.036 g/100 mL
Reported UM: 0.003 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
### Compound Analysis

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Volatile Confirmation Worksheet

Lab Number/Item Number: 2020-06495 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☑ Blood ☐ Liquid ☐ Other: __________

Results:

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<td>Aliquot 1:</td>
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Reported Result: 0.186 g/100 mL
Reported UM: 0.018 g/100 mL

Comments: 

Total Number of Printed Examination Pages: 0
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**Volatile Confirmation Worksheet**

**Lab Number/Item Number:** 2020-06496 001-01

**Batch Name:** ALC_20200814_AAJ  
**Instrument:** Headspace 3  
**Analyst:** Ashley Ann Johnson, M.S.

**Specimen type:**  
- Blood  
- Liquid  
- Other: ____________

**Results:**

<table>
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<tr>
<th>Specimen</th>
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<tbody>
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</tr>
<tr>
<td>Aliquot 1:</td>
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<td>Aliquot 2:</td>
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**Reported Result:** 0.078 g/100 mL  
**Reported UM:** 0.007 g/100 mL

**Comments:**

**Total Number of Printed Examination Pages:** 0
## Houston Forensic Science Center, Inc.
### Forensic Analysis Division
#### Toxicology - Volatile Analysis Chromatograms

**Sample name:** 2020-06496 001-01  
**Description:** Alq 1  
**Vial Number:** 39  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 8:05:24 PM  
**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\039F3901.D

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Lab Number/Item Number: 2020-06514 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☐ Blood ☐ Liquid ☐ Other: 

Results:

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<td>Aliquot 2:</td>
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Reported Result: none detected
Reported UM: 

Comments:

Total Number of Printed Examination Pages: 0
### Houston Forensic Science Center, Inc.
**Forensic Analysis Division**
**Toxicology - Volatile Analysis Chromatograms**

**Sample name:** 2020-06514 001-01  
**Description:** Alq 1  
**Vial Number:** 40

**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 8:09:54 PM

**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\040F4001.D

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**Acetone < LOQ. - AAJ 8/17/2020**
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<td>1.099</td>
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<td>0.0009</td>
</tr>
<tr>
<td>n-Propanol</td>
<td>0.94123</td>
<td></td>
<td>1.601</td>
<td>1.600</td>
<td>252.0137</td>
<td>0.0100</td>
</tr>
</tbody>
</table>

Acetone < LOQ. - AAJ 8/17/2020
**Lab Number/Item Number:** 2020-06519 001-01

**Batch Name:** ALC_20200814_AAJ
**Instrument:** Headspace 3
**Analyst:** Ashley Ann Johnson, M.S.

**Specimen type:**
- [ ] Blood
- [ ] Liquid
- [x] Other: □

**Results:**

<table>
<thead>
<tr>
<th>Alcohol</th>
<th>FID1</th>
<th>FID2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aliquot 1:</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>Aliquot 2:</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
</tbody>
</table>

*none detected*

**Reported Result:** □ detected

**Reported UM:** □

**Comments:**
### n-Propanol Analysis

<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propanol</td>
<td>0.85541</td>
<td>1.948</td>
<td>1.948</td>
<td>1.947</td>
<td>223.6955</td>
<td>0.0100</td>
</tr>
</tbody>
</table>

### n-Propanol Analysis (FID2B)

<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propanol</td>
<td>0.93399</td>
<td>1.601</td>
<td>1.601</td>
<td>1.600</td>
<td>249.6578</td>
<td>0.0100</td>
</tr>
</tbody>
</table>
### n-Propanol

<table>
<thead>
<tr>
<th>Name</th>
<th>FID1A</th>
<th>FID2B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Compound</strong></td>
<td><strong>Peak Symmetry</strong></td>
<td><strong>Peak to Valley Ratio</strong></td>
</tr>
<tr>
<td>n-Propanol</td>
<td>0.85630</td>
<td>1.948</td>
</tr>
</tbody>
</table>

### Additional Information

- **Sample name:** 2020-06519 001-01
- **Description:** Alq 2
- **Vial Number:** 49
- **Instrument:** Headspace 3
- **Acq. method:** VOLATILES.M
- **Injection date:** 8/14/2020 8:57:19 PM
- **Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\049F4901.D

---

#### Chromatograms

- **FID1A, Front Signal**
- **FID2B, Back Signal**
Lab Number/Item Number: 2020-06525 001-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: □ Blood □ Liquid □ Other: ________________

Results:

<table>
<thead>
<tr>
<th></th>
<th>FID1</th>
<th>FID2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aliquot 1:</td>
<td>0.1439</td>
<td>Aliquot 1:</td>
</tr>
<tr>
<td>Aliquot 2:</td>
<td>0.1470</td>
<td>Aliquot 2:</td>
</tr>
</tbody>
</table>

Reported Result: 0.145 g/100 mL
Reported UM: 0.014 g/100 mL

Comments:

Total Number of Printed Examination Pages: 0
**Sample name:** 2020-06525 001-01  
**Description:** Alq 1  
**Vial Number:** 42  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 8:20:17 PM  
**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\042F4201.D

### Table 1: FID1A, Front Signal

<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>0.90194</td>
<td>1.169</td>
<td>1.169</td>
<td>205.9540</td>
<td>0.1439</td>
<td></td>
</tr>
<tr>
<td>n-Propanol</td>
<td>0.85826</td>
<td>1.947</td>
<td>1.947</td>
<td>219.2313</td>
<td>0.0100</td>
<td></td>
</tr>
</tbody>
</table>

### Table 2: FID2B, Back Signal

<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>0.98617</td>
<td>1.026</td>
<td>1.026</td>
<td>232.1960</td>
<td>0.1448</td>
<td></td>
</tr>
<tr>
<td>n-Propanol</td>
<td>0.92725</td>
<td>1.600</td>
<td>1.600</td>
<td>245.2853</td>
<td>0.0100</td>
<td></td>
</tr>
<tr>
<td>Compound</td>
<td>Peak Symmetry</td>
<td>Peak to Valley Ratio</td>
<td>RT [min]</td>
<td>Expected RT [min]</td>
<td>Area</td>
<td>Concentration [g/100 mL]</td>
</tr>
<tr>
<td>------------</td>
<td>---------------</td>
<td>----------------------</td>
<td>----------</td>
<td>------------------</td>
<td>------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>Ethanol</td>
<td>0.90602</td>
<td>1.170</td>
<td>1.169</td>
<td>218.7528</td>
<td>0.1470</td>
<td></td>
</tr>
<tr>
<td>n-Propanol</td>
<td>0.85897</td>
<td>1.948</td>
<td>1.947</td>
<td>227.9076</td>
<td>0.0100</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>FID2B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compound</td>
<td>Peak Symmetry</td>
</tr>
<tr>
<td>Ethanol</td>
<td>1.01643</td>
</tr>
<tr>
<td>n-Propanol</td>
<td>0.93543</td>
</tr>
</tbody>
</table>
Lab Number/Item Number: 2020-10256 002-01-01

Batch Name: ALC_20200814_AAJ
Instrument: Headspace 3
Analyst: Ashley Ann Johnson, M.S.

Specimen type: ☐ Blood ☐ Liquid ☐ Other: _______________

Results:

<table>
<thead>
<tr>
<th></th>
<th>FID1</th>
<th>FID2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aliquot 1:</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>Aliquot 2:</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
</tbody>
</table>

none detected

Reported Result: ________________
Reported UM: ___________

Comments:

Total Number of Printed Examination Pages: 0
### Houston Forensic Science Center, Inc.
### Forensic Analysis Division
### Toxicology - Volatile Analysis Chromatograms

**Sample name:** 2020-10256 002-01-01  
**Description:** Alq 1  
**Vial Number:** 44  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 8:30:40 PM  
**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ/ALC_20200814_AAJ 2020-08-14 16-38-57/044F4401.D

#### Name: FID1A

<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>0.82795</td>
<td>1.544</td>
<td>1.541</td>
<td>25.1180</td>
<td>0.0043</td>
<td></td>
</tr>
<tr>
<td>n-Propanol</td>
<td>0.86169</td>
<td>1.948</td>
<td>1.947</td>
<td>227.1831</td>
<td>0.0100</td>
<td></td>
</tr>
</tbody>
</table>

#### Name: FID2B

<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>0.69640</td>
<td>1.100</td>
<td>1.099</td>
<td>31.3516</td>
<td>0.0047</td>
<td></td>
</tr>
<tr>
<td>n-Propanol</td>
<td>0.93965</td>
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<td>1.600</td>
<td>254.4047</td>
<td>0.0100</td>
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</tr>
</tbody>
</table>

Acetone < LOQ. - AAJ 8/17/2020
**Sample name:** 2020-10256 002-01-01  
**Description:** Alq 2  
**Vial Number:** 46  
**Instrument:** Headspace 3  
**Acq. method:** VOLATILES.M  
**Injection date:** 8/14/2020 8:41:04 PM  
**Data file:** C:\Chem32\1\Data\ALC_20200814_AAJ\ALC_20200814_AAJ 2020-08-14 16-38-57\046F4601.D

### Name: FID1A

<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>0.82700</td>
<td></td>
<td>1.544</td>
<td>1.541</td>
<td>24.8974</td>
<td>0.0043</td>
</tr>
<tr>
<td>n-Propanol</td>
<td>0.86596</td>
<td></td>
<td>1.948</td>
<td>1.947</td>
<td>225.7795</td>
<td>0.0100</td>
</tr>
</tbody>
</table>

### Name: FID2B

<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak Symmetry</th>
<th>Peak to Valley Ratio</th>
<th>RT [min]</th>
<th>Expected RT [min]</th>
<th>Area</th>
<th>Concentration [g/100 mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
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<td>1.100</td>
<td>1.099</td>
<td>30.4987</td>
<td>0.0046</td>
</tr>
<tr>
<td>n-Propanol</td>
<td>0.94558</td>
<td></td>
<td>1.601</td>
<td>1.600</td>
<td>252.1994</td>
<td>0.0100</td>
</tr>
</tbody>
</table>

Acetone < LOQ. - AAJ 8/17/2020