

# Certificate of Analysis

## Certified Reference Material- Ethanol Water Solution

This Certified Ethanol Reference Solution is a solution of ethanol (ethyl alcohol – Chemical Abstracts Service [CAS] Registry Number 64-17-5) in water.

|                   |                  |                  |                  |                    |
|-------------------|------------------|------------------|------------------|--------------------|
| Lot Code:         | <u>25CP41280</u> | Nominal Value:   | <u>121.00</u>    | mg/dL              |
| Min. Sample Size: | 500mL            | Certified Value: | <u>120.92</u>    | <u>±1.78 mg/dL</u> |
| Solute:           | Ethanol          | Expiration Date: | <u>3/19/2027</u> |                    |
| Diluent           | Water            |                  |                  |                    |

### INTENDED USE:

- For the calibration of instruments used to measure breath alcohol concentration.
- The above nominal value in mg/dL is equivalent to 0.100 BAC with a partition ratio of 2100:1 when solution is used in a breath alcohol simulator operating at 34 ±0.2 °C.
- Bottles are filled to an approximate volume of 500mL. Each bottle is to be used in its entirety.
- The solution should be used immediately after opening the bottle to avoid concentration changes due to evaporation.
- Not suitable for human or animal consumption.

### TRACEABILITY

- Solution is gravimetrically prepared using qualified balances calibrated by ISO 17025:2017 accredited calibration laboratories.
- Concentration of this certified reference material has been analytically verified through the use of gas chromatography.
- Measurements are traceable to SI through NIST.

### HANDLING and STORAGE

- No special handling is required. Use proper disposal methods.
- Recommended storage temperature: 4-25°C / 39-77°F
- Do not freeze. Do not utilize this certified reference material if it has been frozen or the seal has been compromised.

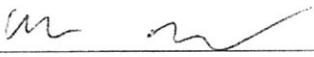
### ANALYTICAL VERIFICATION:

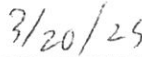
Concentration of the certified value is calculated as the average of multiple analyses carried out utilizing a validated gas chromatography\flame ionization detector method; this method has been demonstrated to adequately detect and quantify concentrations of ethanol in water in the ranges of 5mg/dL to 500mg/dL. The concentration of the solution is determined using the equation  $C_{\text{Solution}} = 1.21 (BAC \frac{g}{100mL})$  where BAC equals the blood alcohol concentration simulated by the solution, assuming a partition ratio of 2100. Samples are measured gravimetrically using calibrated scales and weights traceable to SI.

Continued:

Uncertainties are reported with a coverage factor  $k=2$  with a confidence level of approximately 95%. This certified reference material meets the requirements of ISO 17034:2016. Environmental conditions are controlled to 4-25°C / 39-77°F during manufacturing and testing of this reference material.



  
Eric Williamson  
Laboratory Manager

  
Date

*Lifeloc Technologies certifies that this solution meets the specifications stated in this certificate and warrants this product to meet the stated accuracy through the expiration date when stored unopened as recommended. Warranty does not apply to bottles stored after opening or that have sustained damage or been altered. This certificate may only be reproduced in full.*

SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100375

Date: 05/06/2025  
 Time: 11:13:16

SUPERVISOR NAME:  
 MEGAN CARLOCK  
 OPERATOR'S #: 10747

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.100

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:14 |
| INTERNAL STANDARD | VERIFIED | 11:14 |
| EXTERNAL STANDARD | 0.102    | 11:15 |
| BLANK TEST        | 0.000    | 11:16 |
| EXTERNAL STANDARD | 0.101    | 11:16 |
| BLANK TEST        | 0.000    | 11:17 |
| EXTERNAL STANDARD | 0.101    | 11:18 |
| BLANK TEST        | 0.000    | 11:18 |
| EXTERNAL STANDARD | 0.101    | 11:19 |
| BLANK TEST        | 0.000    | 11:20 |
| EXTERNAL STANDARD | 0.101    | 11:20 |
| BLANK TEST        | 0.000    | 11:21 |

Average = 0.1012  
 Std Dev = 0.0004

Lot: 25CP41280

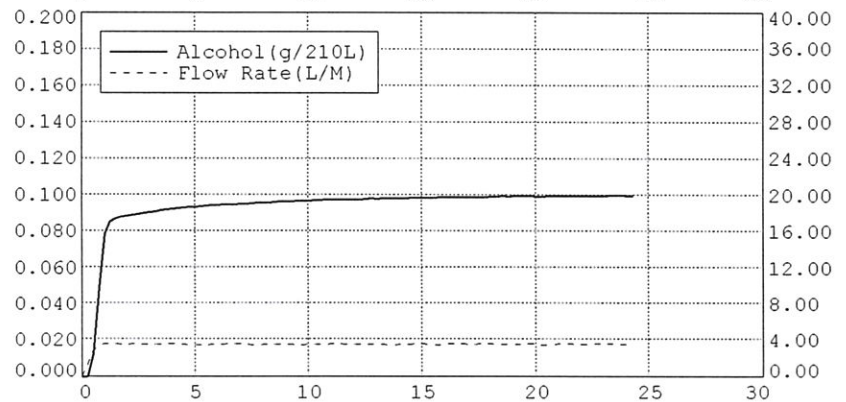
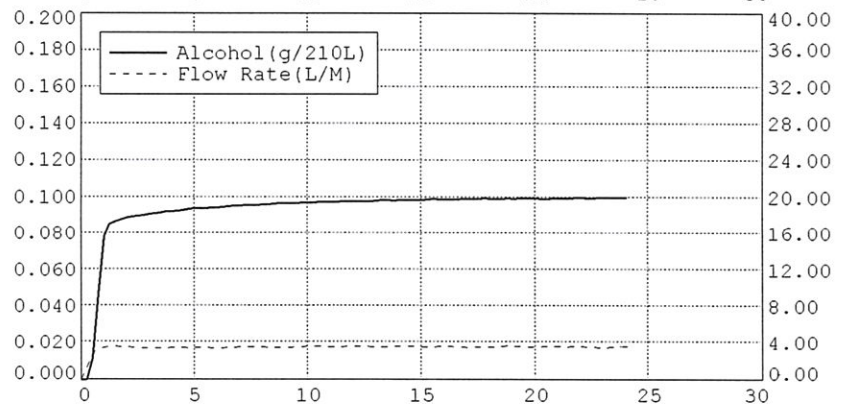
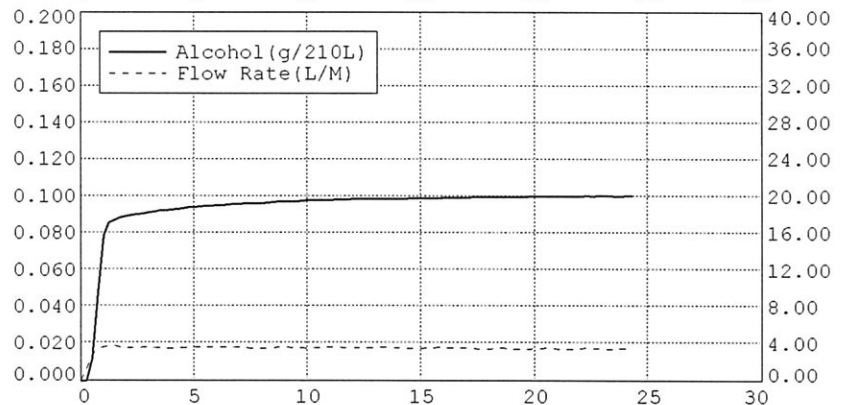
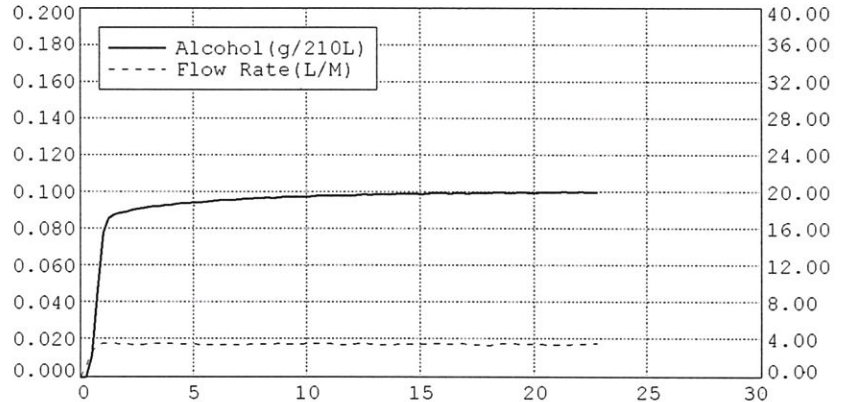
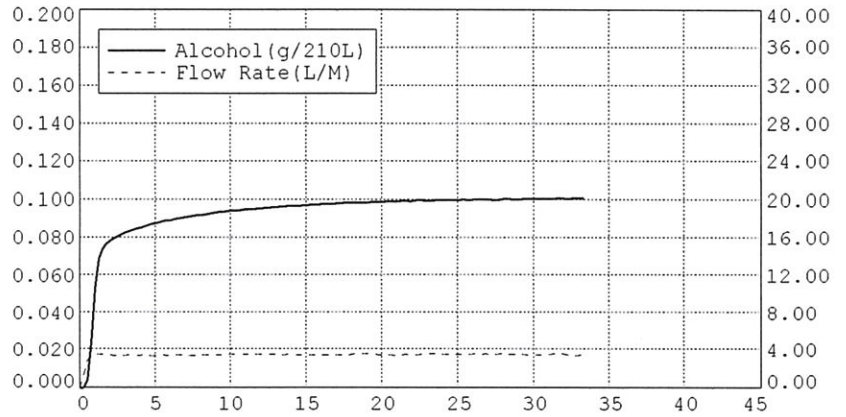
Exp: 3/19/2027

Simulator: DR5298

Exp: 9/9/2025

Average: 0.101

MNC  
 5/6/25



SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100397

Date: 05/06/2025  
 Time: 10:04:56

SUPERVISOR NAME:  
 MEGAN CARLOCK  
 OPERATOR'S #: 10747

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.100

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:11 |
| INTERNAL STANDARD | VERIFIED | 10:11 |
| EXTERNAL STANDARD | 0.099    | 10:12 |
| BLANK TEST        | 0.000    | 10:13 |
| EXTERNAL STANDARD | 0.100    | 10:13 |
| BLANK TEST        | 0.000    | 10:14 |
| EXTERNAL STANDARD | 0.099    | 10:14 |
| BLANK TEST        | 0.000    | 10:15 |
| EXTERNAL STANDARD | 0.100    | 10:16 |
| BLANK TEST        | 0.000    | 10:17 |
| EXTERNAL STANDARD | 0.100    | 10:17 |
| BLANK TEST        | 0.000    | 10:18 |

Average = 0.0996  
 Std Dev = 0.0005

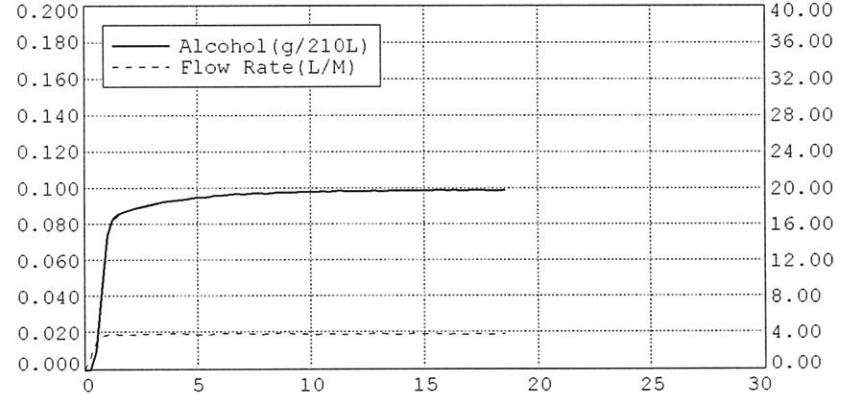
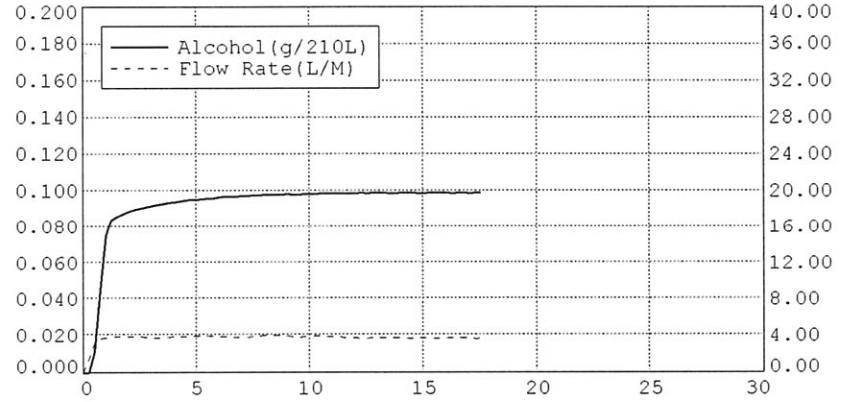
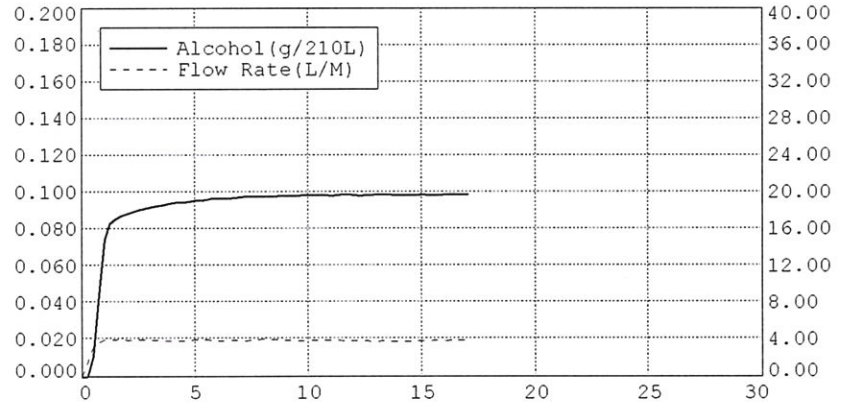
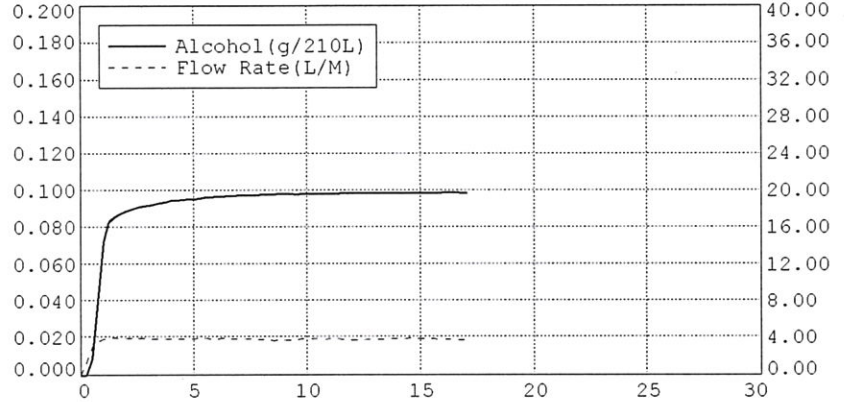
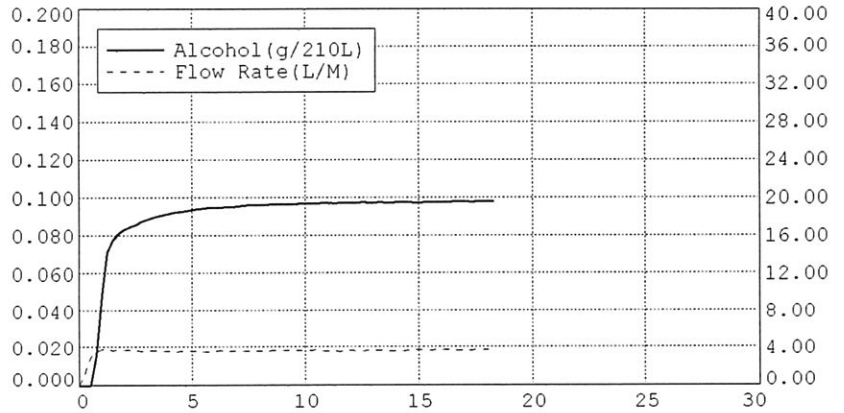
Lot: 25CP41280

Exp: 3/19/2027

Simulator: DR5298

Exp: 9/9/2025

MNC 5/6/25



SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100399

Date: 05/06/2025  
 Time: 10:21:35

SUPERVISOR NAME:  
 MEGAN CARLOCK  
 OPERATOR'S #: 10747

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.100

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:22 |
| INTERNAL STANDARD | VERIFIED | 10:22 |
| EXTERNAL STANDARD | 0.101    | 10:23 |
| BLANK TEST        | 0.000    | 10:24 |
| EXTERNAL STANDARD | 0.101    | 10:24 |
| BLANK TEST        | 0.000    | 10:25 |
| EXTERNAL STANDARD | 0.102    | 10:26 |
| BLANK TEST        | 0.000    | 10:27 |
| EXTERNAL STANDARD | 0.100    | 10:27 |
| BLANK TEST        | 0.000    | 10:28 |
| EXTERNAL STANDARD | 0.104    | 10:29 |
| BLANK TEST        | 0.000    | 10:30 |

Average = 0.1016  
 Std Dev = 0.0015

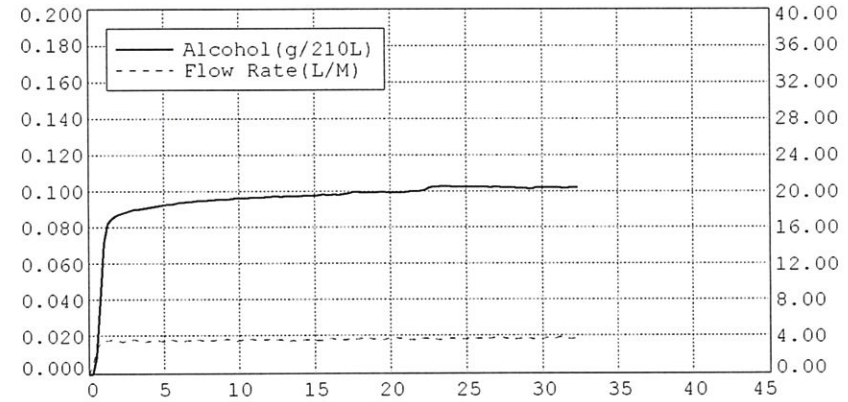
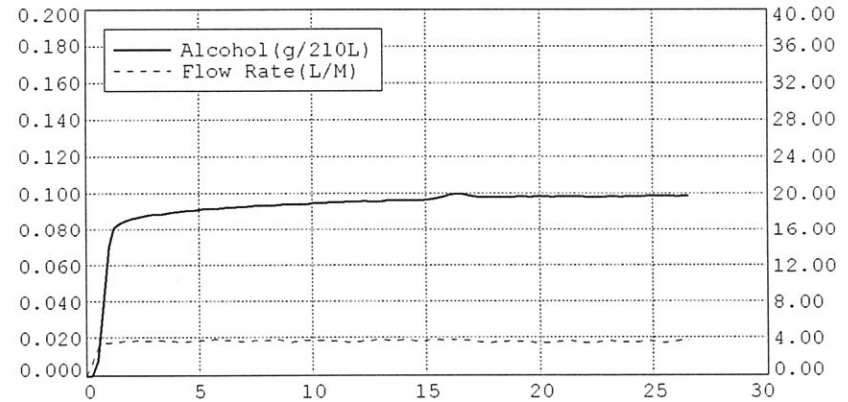
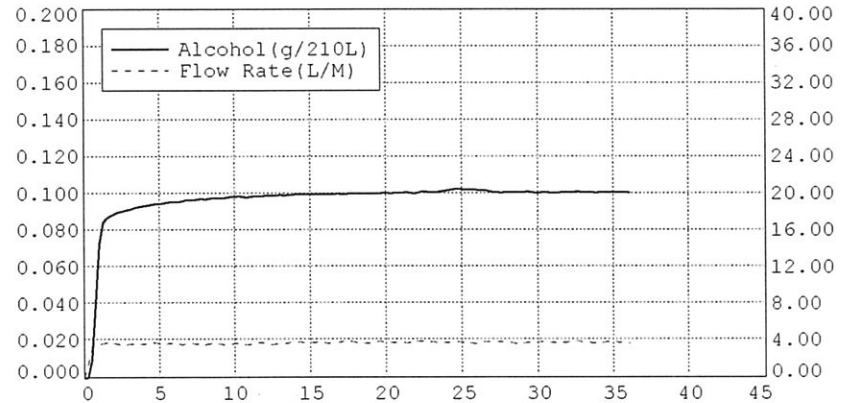
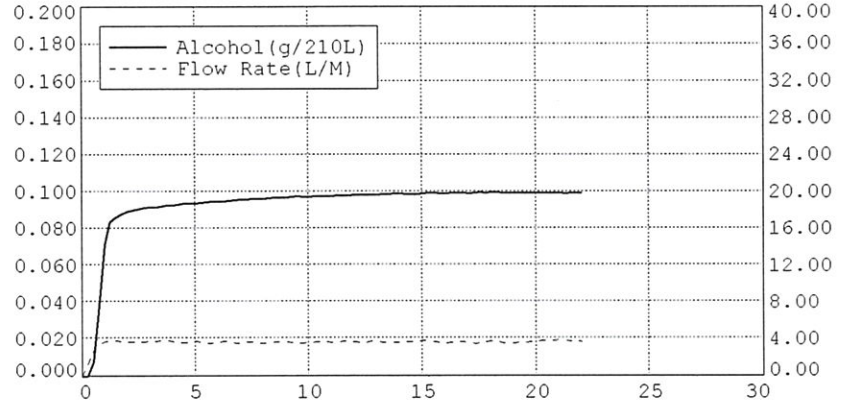
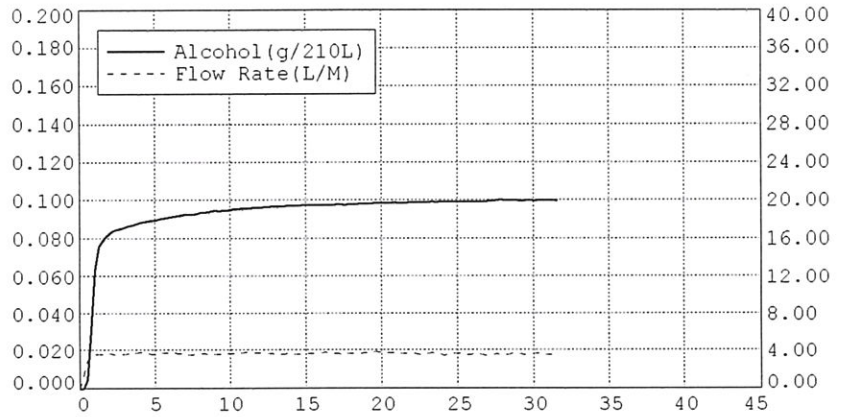
Lot: 25CP41280

Exp: 3/19/2027

Simulator: DR5298

Exp: 9/19/2025

MNC 5/6/25



DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100375  
-----

Date: 05/06/2025  
Time: 09:29:13

VERSIONS

DMT: 3.02  
PIC: 3.02  
Modem: 2.6  
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 48.1°C PASSED  
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.52 V PASSED  
(0.92 V - 2.16 V)  
Cooler Voltage = 1.57 V PASSED  
(0.92 V - 2.16 V)  
Bias Voltage = 79 V PASSED  
(47 V - 111 V)  
Chopper Freq = 534 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.7 in

PUMP INFO

Flow Rate = 3.942 L/M PASSED  
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED  
(0.002 V <= 0.010 V)  
PUMP OFF PASSED  
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.092 0.57% (0.00% - 4.00%) PASSED

Technician Screen

-----  
DATAMASTER dmt: 100375  
-----

Date: 05/06/2025  
Time: 9:34 AM

Temperatures (°C)

Sample Cell: 49.0°C  
Breath Tube: 48.1°C

Current Barometer 29.5 in  
Volume (Ltr) 0.00

Settings

Lamp: 1.52 V  
Bias: 79 V  
Cooler: 1.70 V  
Chopper: 532 Hz

Voltages (V)

Flow: 1.05 V  
Detector: 0.002 V

LINEARITY CHECK

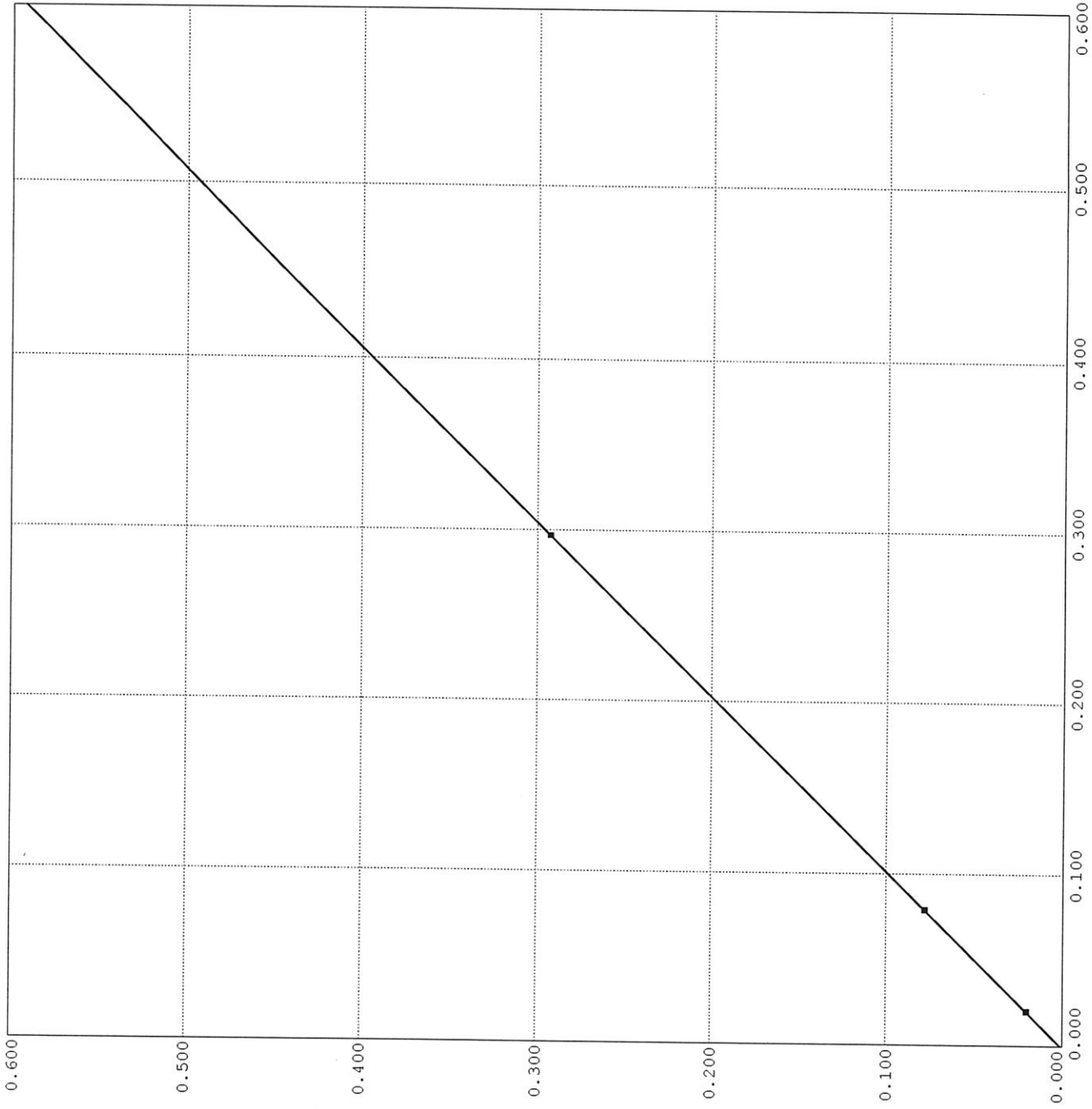
-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100375  
-----

Date: 05/06/2025  
Time: 09:36:10

SUPERVISOR NAME:  
MEGAN CARLOCK  
OPERATOR'S #: 10747

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.020  | 0.0210  | 0.0000    |
| 0.079  | 0.0792  | 0.0004    |
| 0.296  | 0.2932  | 0.0004    |

SLOPE = 0.986217  
R<sup>2</sup> = 1.000000



MNC



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100375

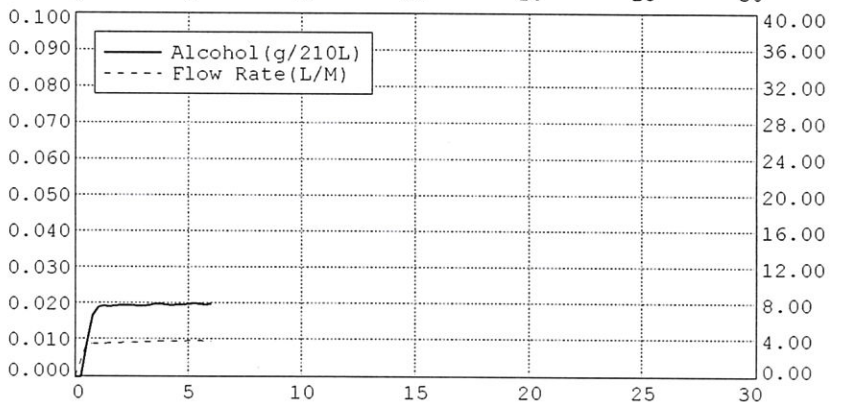
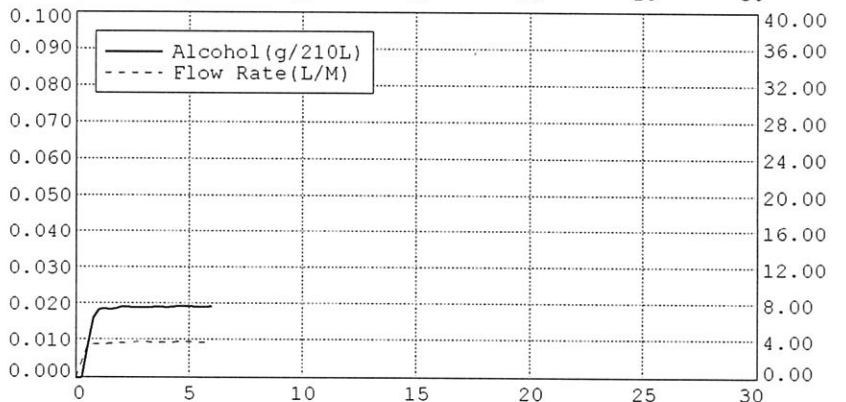
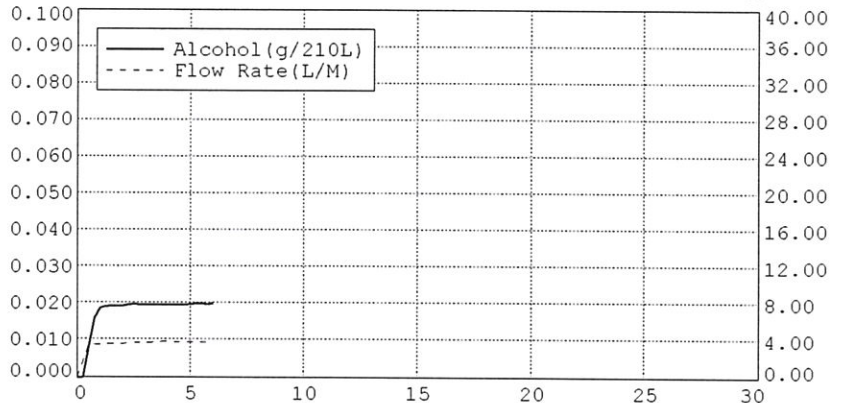
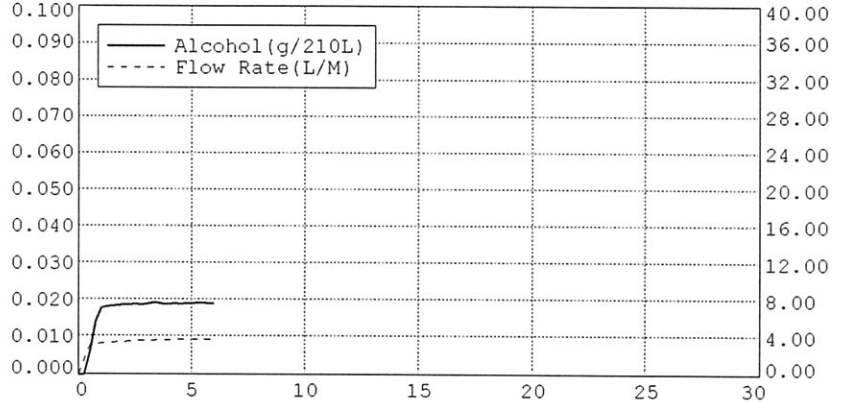
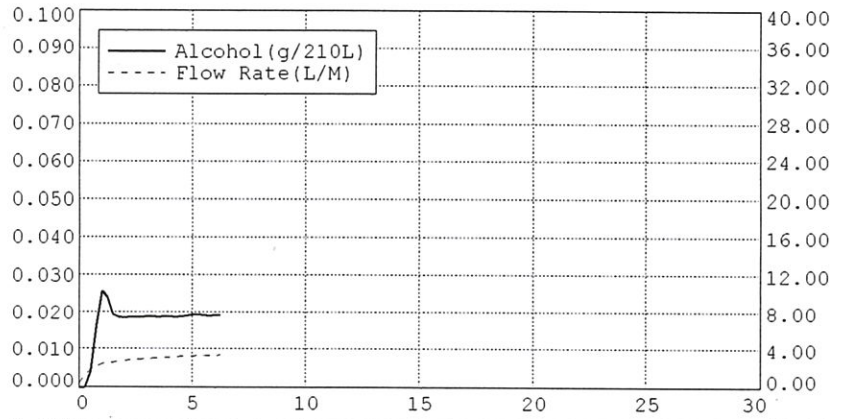
Date: 05/06/2025  
Time: 09:36:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.50: 0.020  
LOT #: AG408002  
EXPIRATION: 03/20/2026  
TANK PRESSURE: 994 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:37 |
| INTERNAL STANDARD | VERIFIED | 09:37 |
| EXTERNAL STANDARD | 0.021    | 09:37 |
| BLANK TEST        | 0.000    | 09:38 |
| EXTERNAL STANDARD | 0.021    | 09:38 |
| BLANK TEST        | 0.000    | 09:39 |
| EXTERNAL STANDARD | 0.021    | 09:40 |
| BLANK TEST        | 0.000    | 09:40 |
| EXTERNAL STANDARD | 0.021    | 09:41 |
| BLANK TEST        | 0.000    | 09:42 |
| EXTERNAL STANDARD | 0.021    | 09:42 |
| BLANK TEST        | 0.000    | 09:43 |

Average = 0.0210  
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100375

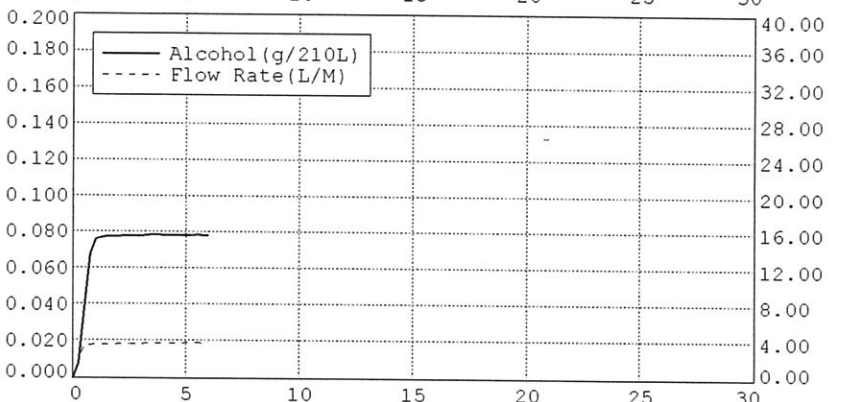
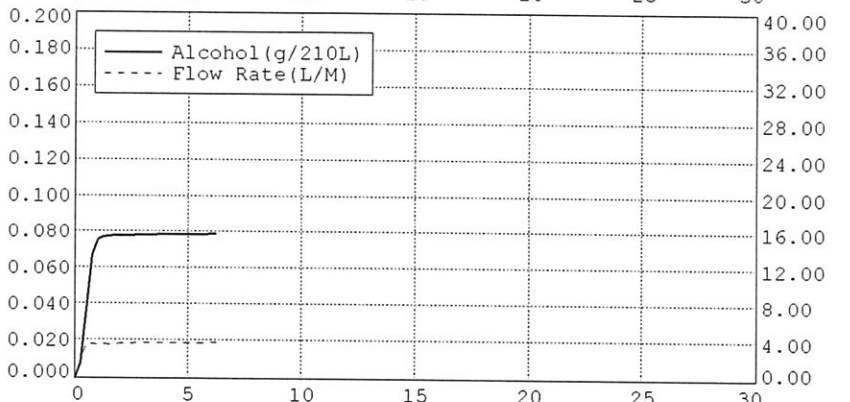
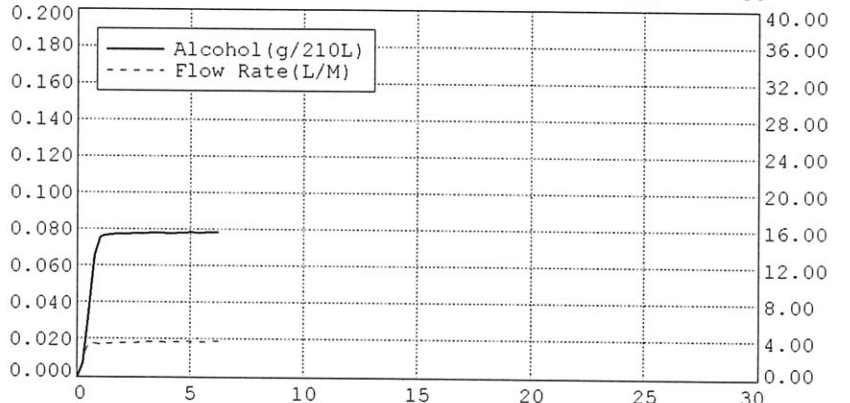
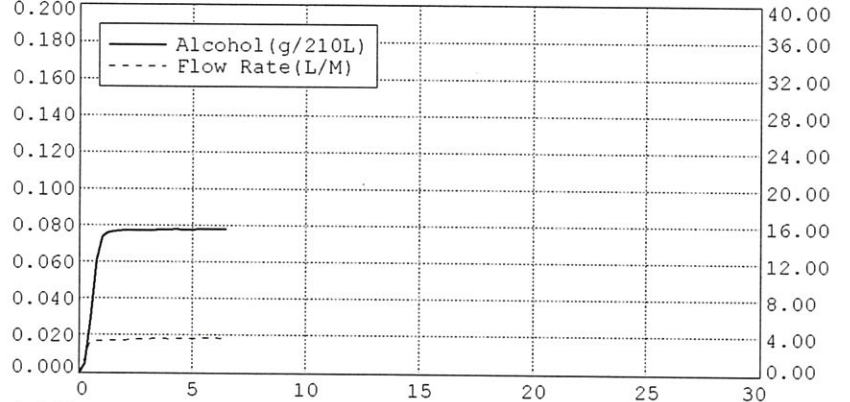
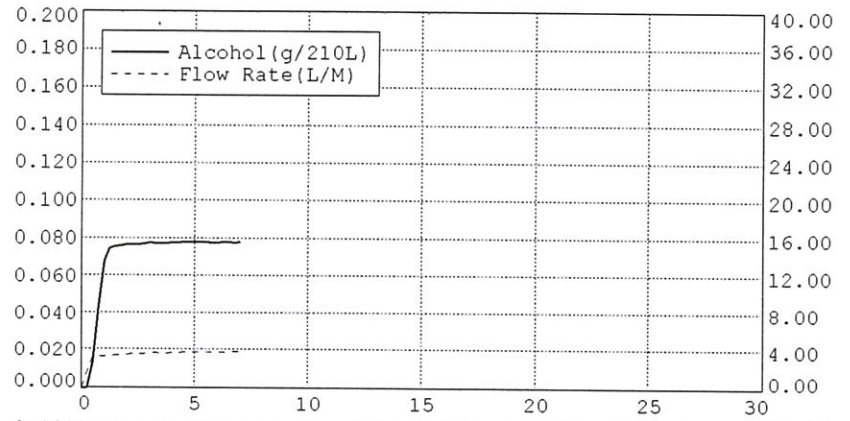
Date: 05/06/2025  
Time: 09:43:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.50: 0.079  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 983 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:45 |
| INTERNAL STANDARD | VERIFIED | 09:45 |
| EXTERNAL STANDARD | 0.079    | 09:45 |
| BLANK TEST        | 0.000    | 09:46 |
| EXTERNAL STANDARD | 0.079    | 09:46 |
| BLANK TEST        | 0.000    | 09:47 |
| EXTERNAL STANDARD | 0.079    | 09:47 |
| BLANK TEST        | 0.000    | 09:48 |
| EXTERNAL STANDARD | 0.080    | 09:48 |
| BLANK TEST        | 0.000    | 09:49 |
| EXTERNAL STANDARD | 0.079    | 09:49 |
| BLANK TEST        | 0.000    | 09:50 |

Average = 0.0792  
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100375  
 -----

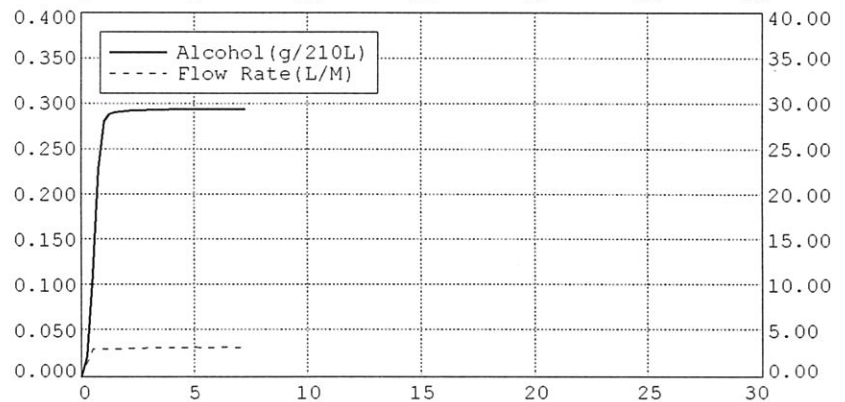
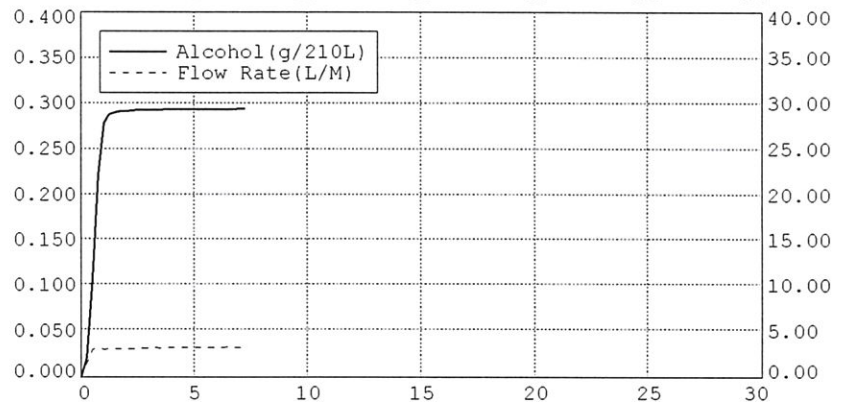
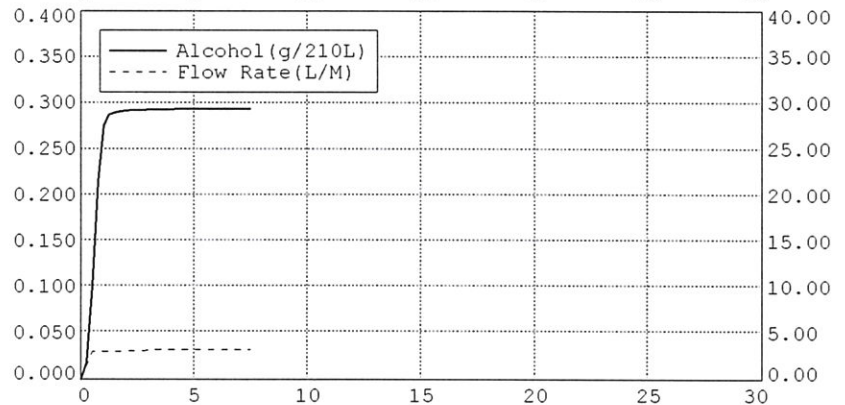
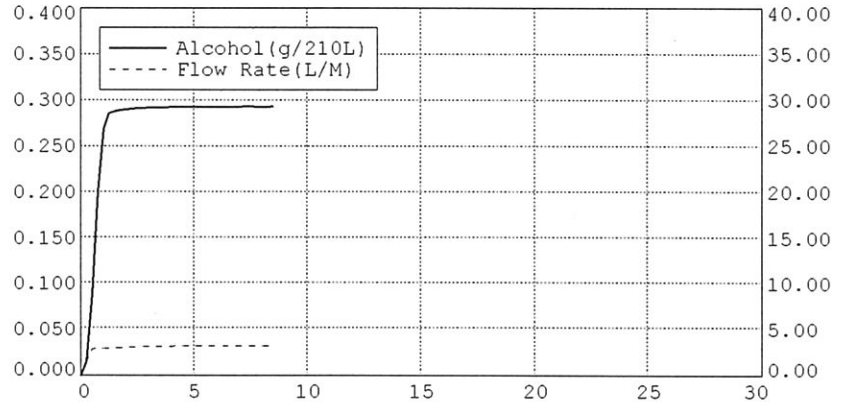
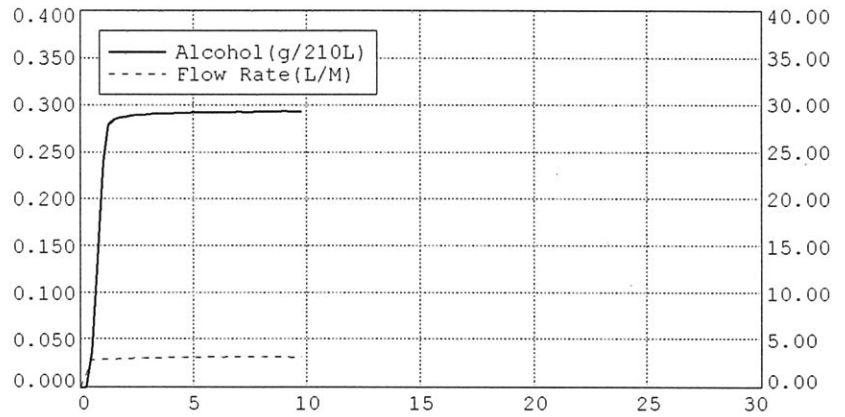
Date: 05/06/2025  
 Time: 09:55:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
 TARGET AT 29.50: 0.296  
 LOT #: AG427706  
 EXPIRATION: 10/03/2026  
 TANK PRESSURE: 166 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:57 |
| INTERNAL STANDARD | VERIFIED | 09:57 |
| EXTERNAL STANDARD | 0.293    | 09:57 |
| BLANK TEST        | 0.000    | 09:58 |
| EXTERNAL STANDARD | 0.293    | 09:58 |
| BLANK TEST        | 0.000    | 09:59 |
| EXTERNAL STANDARD | 0.293    | 09:59 |
| BLANK TEST        | 0.000    | 10:00 |
| EXTERNAL STANDARD | 0.293    | 10:00 |
| BLANK TEST        | 0.000    | 10:01 |
| EXTERNAL STANDARD | 0.294    | 10:02 |
| BLANK TEST        | 0.000    | 10:02 |

Average = 0.2932  
 Std Dev = 0.0004



DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100397  
-----

Date: 05/06/2025  
Time: 09:00:26

VERSIONS  
DMT: 3.02  
PIC: 3.02  
Modem: 2.6  
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 46.6°C PASSED  
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.74 V PASSED  
(1.01 V - 2.37 V)  
Cooler Voltage = 1.71 V PASSED  
(1.04 V - 2.44 V)  
Bias Voltage = 81 V PASSED  
(49 V - 113 V)  
Chopper Freq = 523 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.235 L/M PASSED  
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED  
(0.002 V <= 0.010 V)  
PUMP OFF PASSED  
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.093 0.83% (0.00% - 4.00%) PASSED

Technician Screen

-----  
DATAMASTER dmt: 100397  
-----

Date: 05/06/2025  
Time: 9:08 AM

Temperatures (°C)

Sample Cell: 48.7°C  
Breath Tube: 47.6°C

Current Barometer 29.5 in  
Volume (Ltr) 0.00

Settings

Lamp: 1.77 V  
Bias: 81 V  
Cooler: 1.69 V  
Chopper: 521 Hz

Voltages (V)

Flow: 1.06 V  
Detector: -0.050 V

LINEARITY CHECK

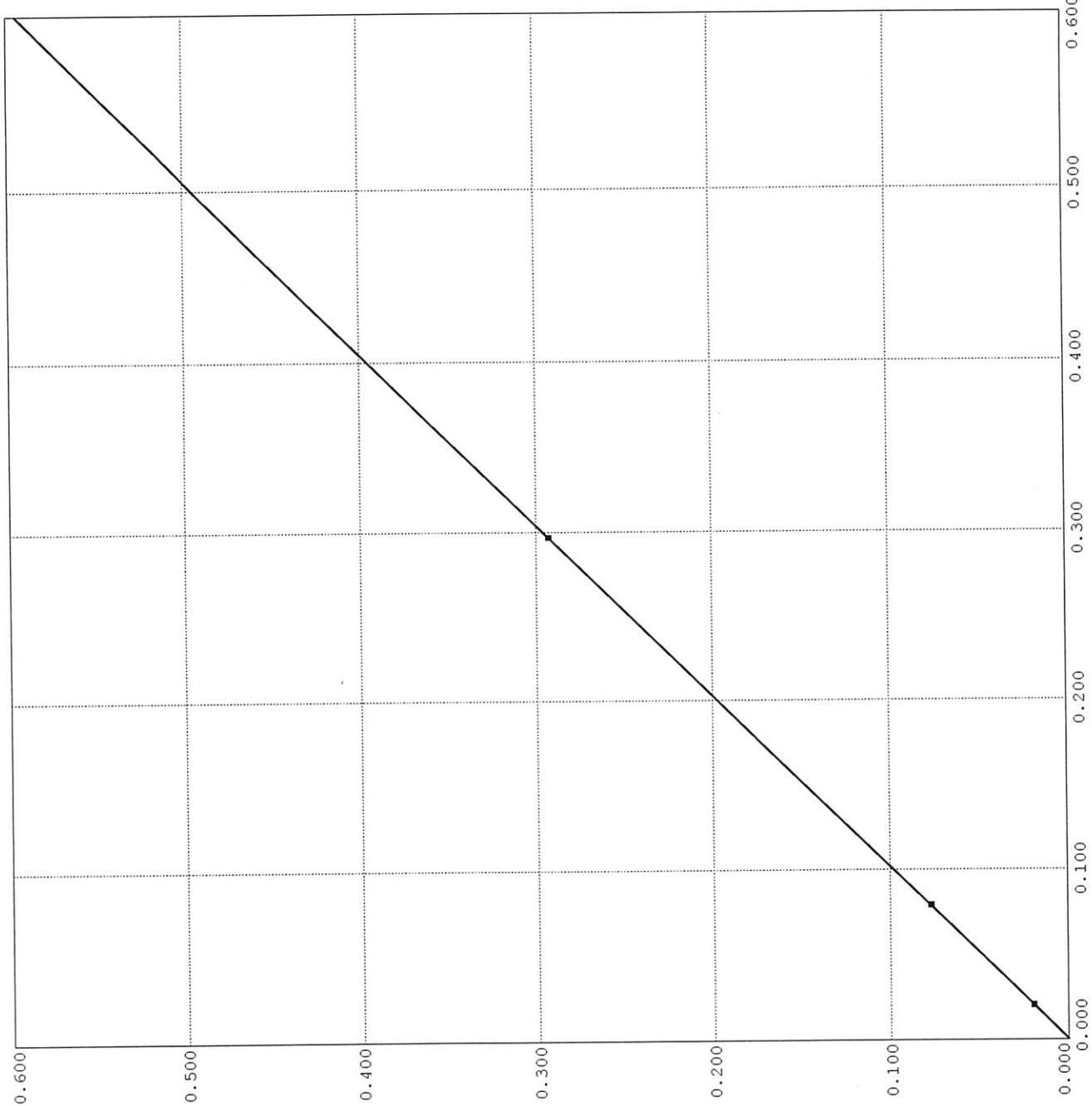
-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100397  
-----

Date: 05/06/2025  
Time: 09:09:42

SUPERVISOR NAME:  
MEGAN CARLOCK  
OPERATOR'S #: 10747

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.020  | 0.0200  | 0.0000    |
| 0.079  | 0.0778  | 0.0004    |
| 0.296  | 0.2936  | 0.0005    |

SLOPE = 0.992161  
R<sup>2</sup> = 0.999993



MNC

LINEARITY CHECK: Control Test 1

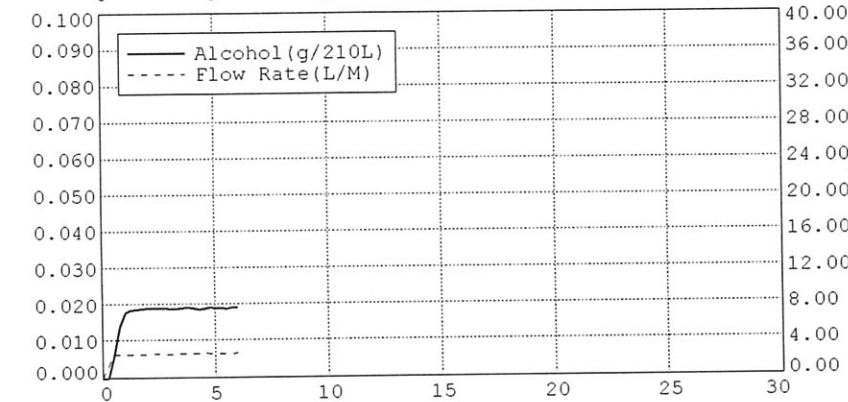
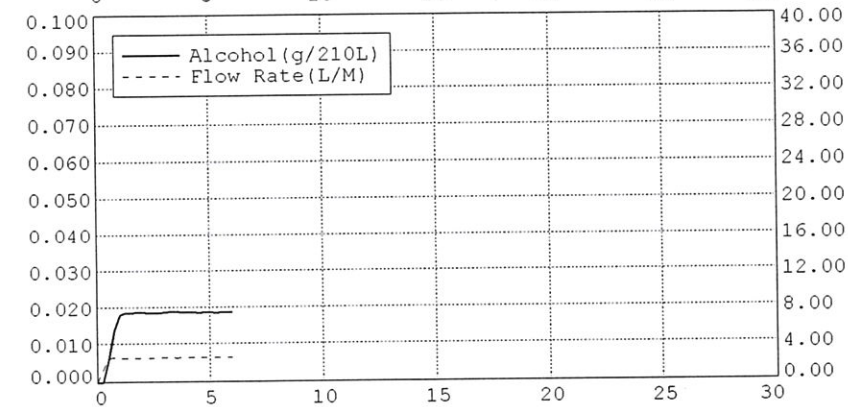
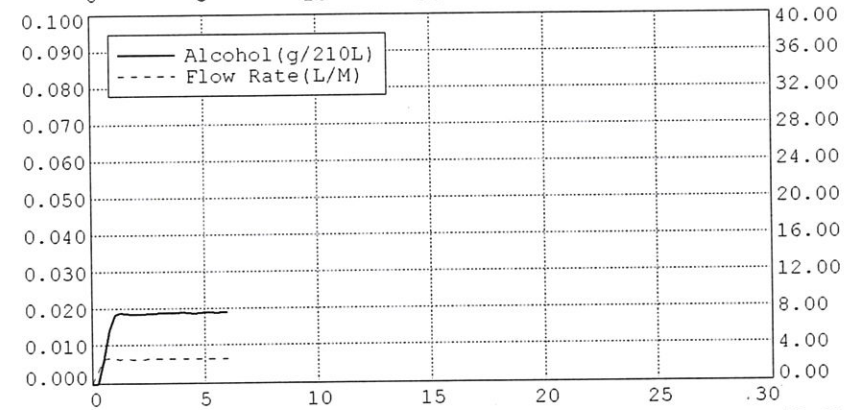
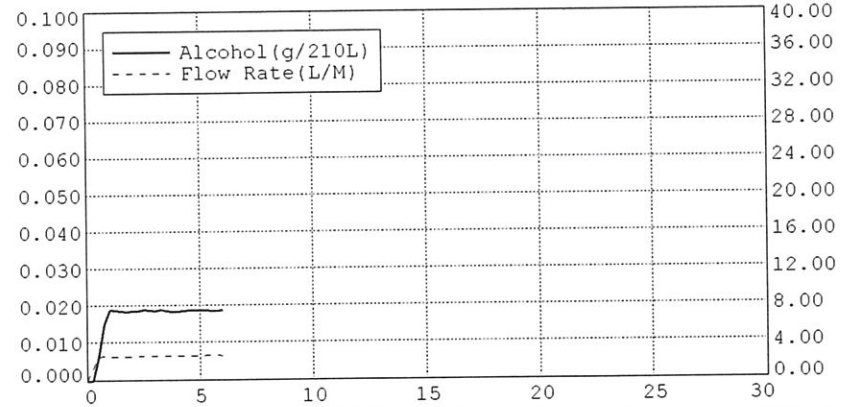
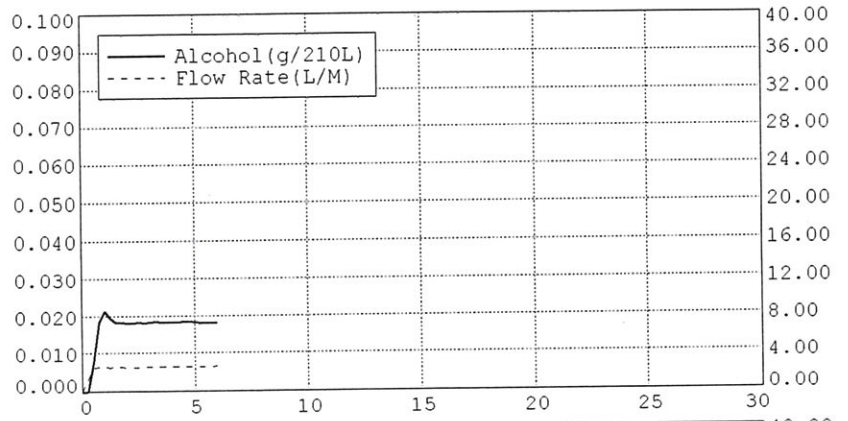
Alaska Department of Public Safety  
 DATAMASTER dmt: 100397

Date: 05/06/2025  
 Time: 09:09:44

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.020  
 TARGET AT 29.51: 0.020  
 LOT #: AG408002  
 EXPIRATION: 03/20/2026  
 TANK PRESSURE: 960 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:11 |
| INTERNAL STANDARD | VERIFIED | 09:11 |
| EXTERNAL STANDARD | 0.020    | 09:11 |
| BLANK TEST        | 0.000    | 09:12 |
| EXTERNAL STANDARD | 0.020    | 09:12 |
| BLANK TEST        | 0.000    | 09:13 |
| EXTERNAL STANDARD | 0.020    | 09:13 |
| BLANK TEST        | 0.000    | 09:14 |
| EXTERNAL STANDARD | 0.020    | 09:14 |
| BLANK TEST        | 0.000    | 09:15 |
| EXTERNAL STANDARD | 0.020    | 09:15 |
| BLANK TEST        | 0.000    | 09:16 |

Average = 0.0200  
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100397

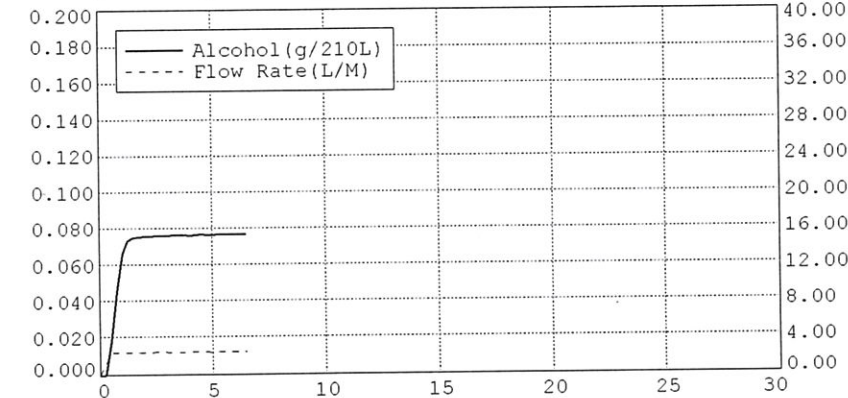
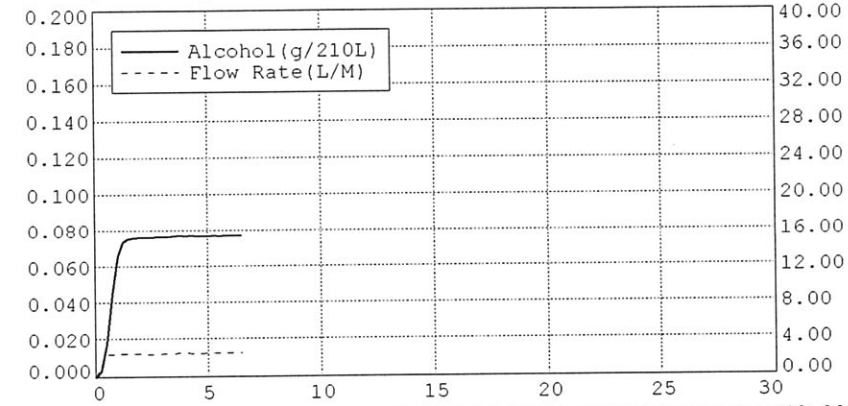
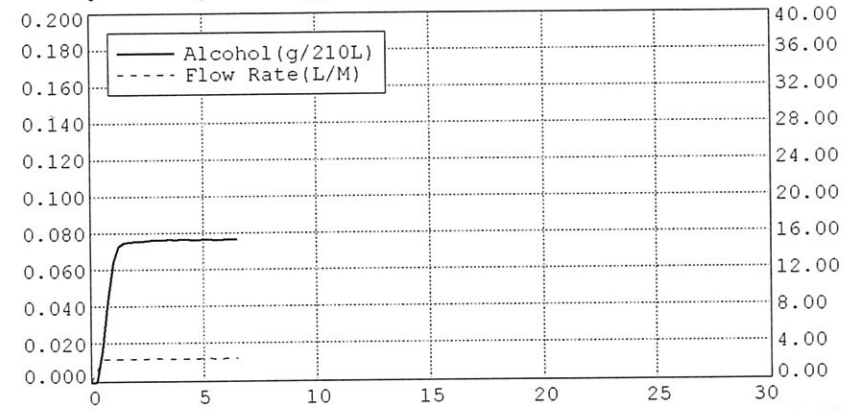
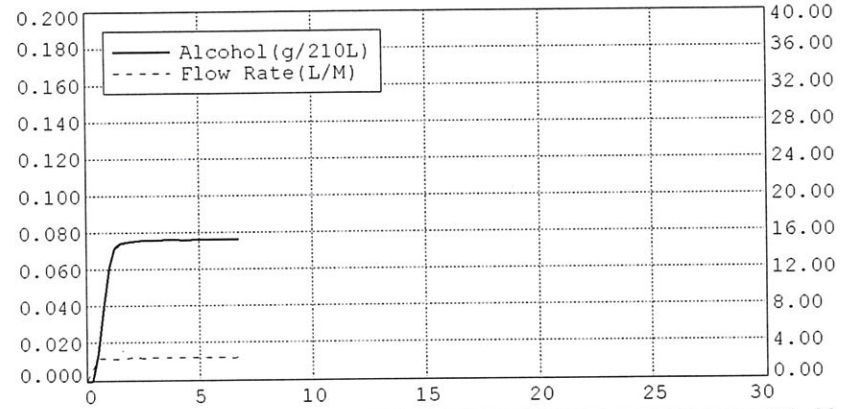
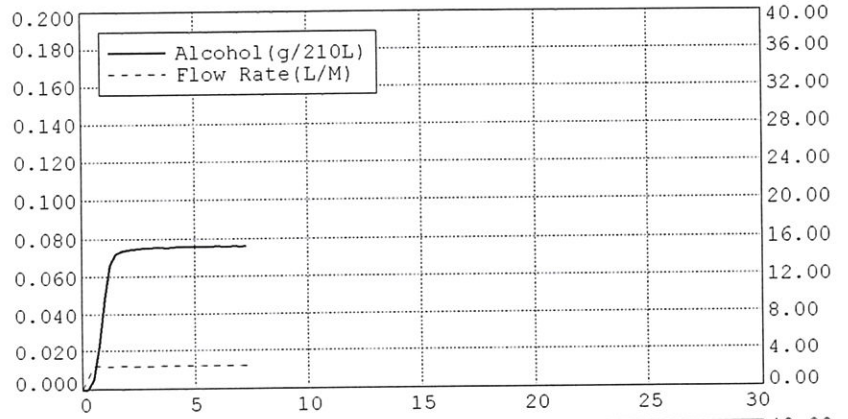
Date: 05/06/2025  
 Time: 09:17:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.51: 0.079  
 LOT #: **AG335202** AG335202 MNC 5/13/25  
 EXPIRATION: 12/18/2025  
 TANK PRESSURE: 309 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:19 |
| INTERNAL STANDARD | VERIFIED | 09:19 |
| EXTERNAL STANDARD | 0.077    | 09:19 |
| BLANK TEST        | 0.000    | 09:20 |
| EXTERNAL STANDARD | 0.078    | 09:20 |
| BLANK TEST        | 0.000    | 09:21 |
| EXTERNAL STANDARD | 0.078    | 09:21 |
| BLANK TEST        | 0.000    | 09:22 |
| EXTERNAL STANDARD | 0.078    | 09:22 |
| BLANK TEST        | 0.000    | 09:23 |
| EXTERNAL STANDARD | 0.078    | 09:24 |
| BLANK TEST        | 0.000    | 09:24 |

Average = 0.0778  
 Std Dev = 0.0004





LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100397

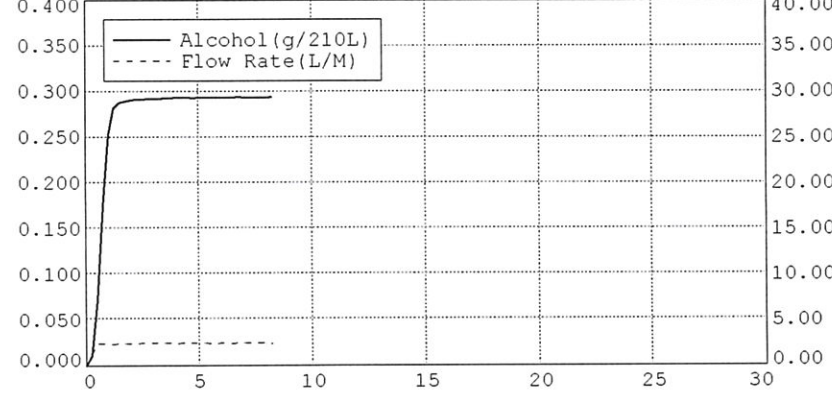
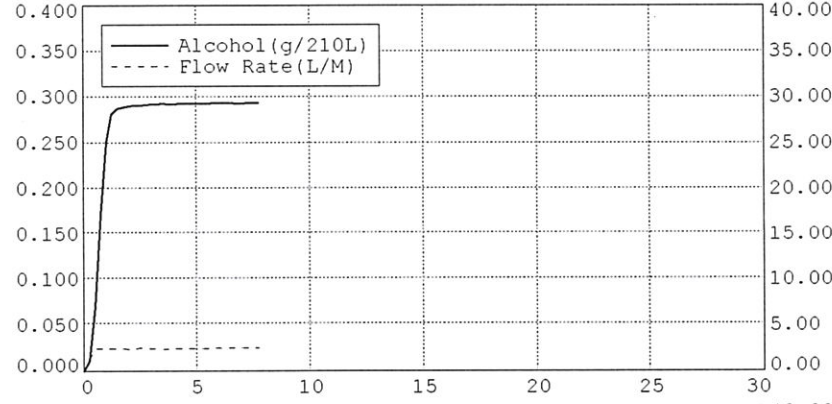
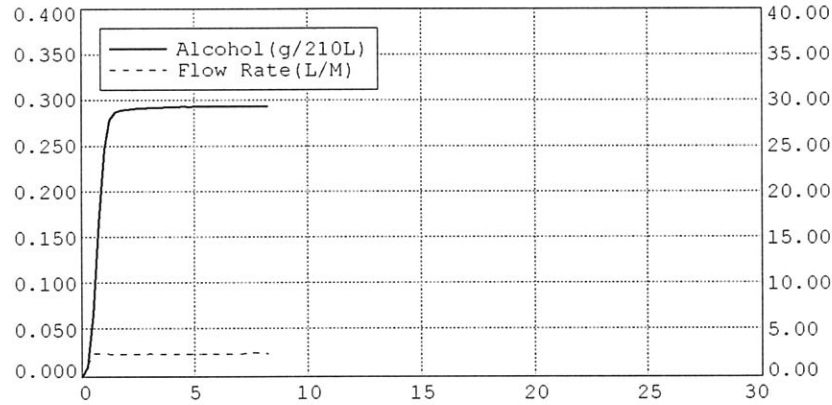
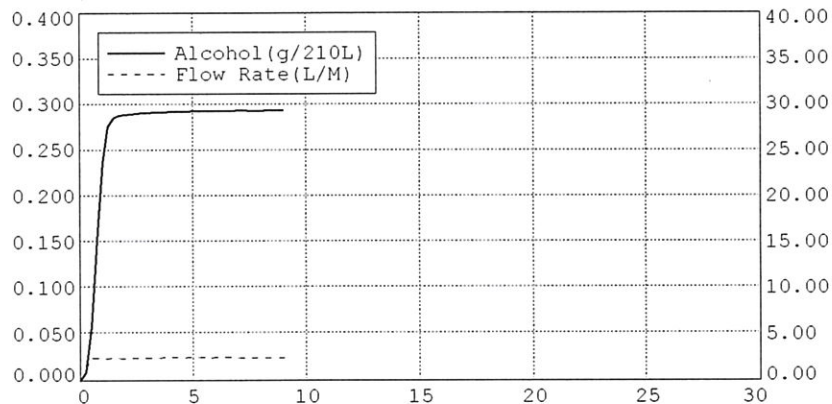
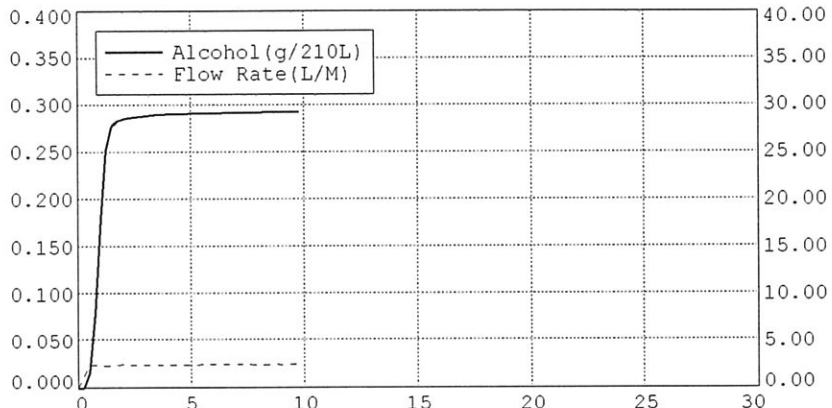
Date: 05/06/2025  
Time: 09:29:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 29.51: 0.296  
LOT #: AG427706  
EXPIRATION: 10/03/2026  
TANK PRESSURE: 127 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:31 |
| INTERNAL STANDARD | VERIFIED | 09:31 |
| EXTERNAL STANDARD | 0.293    | 09:31 |
| BLANK TEST        | 0.000    | 09:32 |
| EXTERNAL STANDARD | 0.293    | 09:32 |
| BLANK TEST        | 0.000    | 09:33 |
| EXTERNAL STANDARD | 0.294    | 09:33 |
| BLANK TEST        | 0.000    | 09:34 |
| EXTERNAL STANDARD | 0.294    | 09:34 |
| BLANK TEST        | 0.000    | 09:35 |
| EXTERNAL STANDARD | 0.294    | 09:36 |
| BLANK TEST        | 0.000    | 09:36 |

Average = 0.2936  
Std Dev = 0.0005



## DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100399  
-----

Date: 05/06/2025  
Time: 08:49:41

VERSIONS  
DMT: 3.02  
PIC: 3.03  
Modem: 2.6  
Questions: 2.2

## TEMPERATURES

Sample Chamber = 48.8°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 48.1°C PASSED  
(38.0°C - 50.0°C)

## SETTINGS

Lamp Voltage = 1.82 V PASSED  
(1.00 V - 2.32 V)  
Cooler Voltage = 1.58 V PASSED  
(0.99 V - 2.31 V)  
Bias Voltage = 81 V PASSED  
(49 V - 113 V)  
Chopper Freq = 526 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.7 in

## PUMP INFO

Flow Rate = 4.583 L/M PASSED  
(3.500 L/M - 6.500 L/M)

## DETECTOR INFO

PUMP ON PASSED  
(0.002 V <= 0.010 V)  
PUMP OFF PASSED  
(0.002 V <= 0.010 V)

## FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

## INTERNAL STANDARD

Xq = 0.086 2.17% (0.00% - 4.00%) PASSED

Technician Screen

-----  
DATAMASTER dmt: 100399  
-----

Date: 05/06/2025  
Time: 8:52 AM

Temperatures (°C)  
Sample Cell: 48.7°C  
Breath Tube: 48.1°C

Current Barometer 29.5 in  
Volume (Ltr) 0.00

Settings  
Lamp: 1.82 V  
Bias: 81 V  
Cooler: 1.58 V  
Chopper: 525 Hz

Voltages (V)  
Flow: 1.06 V  
Detector: 0.005 V

LINEARITY CHECK

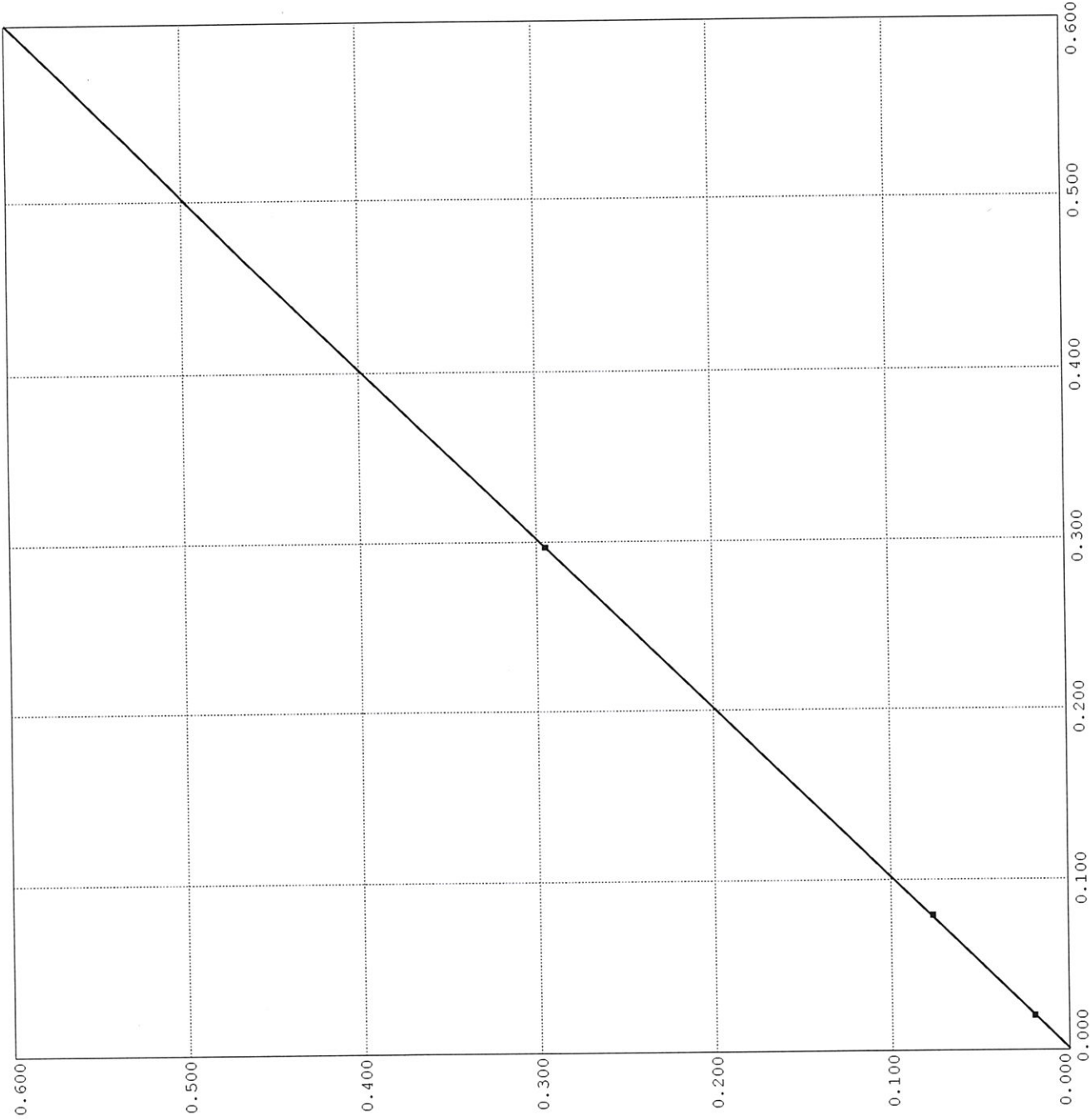
-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100399  
-----

Date: 05/06/2025  
Time: 08:55:51

SUPERVISOR NAME:  
MEGAN CARLOCK  
OPERATOR'S #: 10747

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.020  | 0.0200  | 0.0000    |
| 0.079  | 0.0774  | 0.0015    |
| 0.296  | 0.2956  | 0.0022    |

SLOPE = 1.000439  
R<sup>2</sup> = 0.999967



MNC

LINEARITY CHECK: Control Test 1

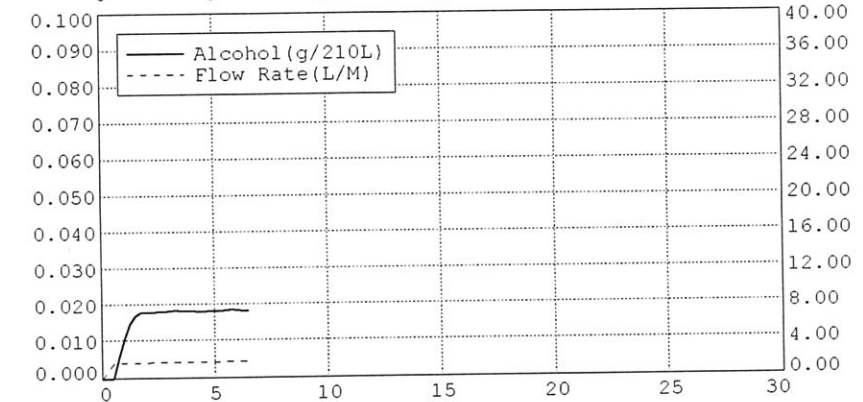
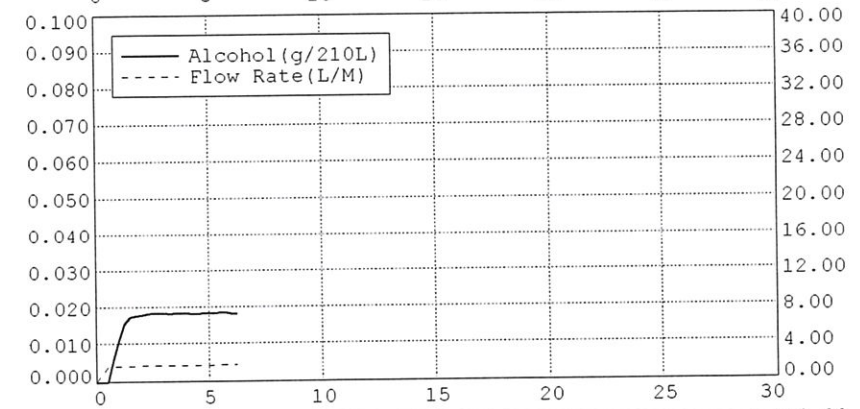
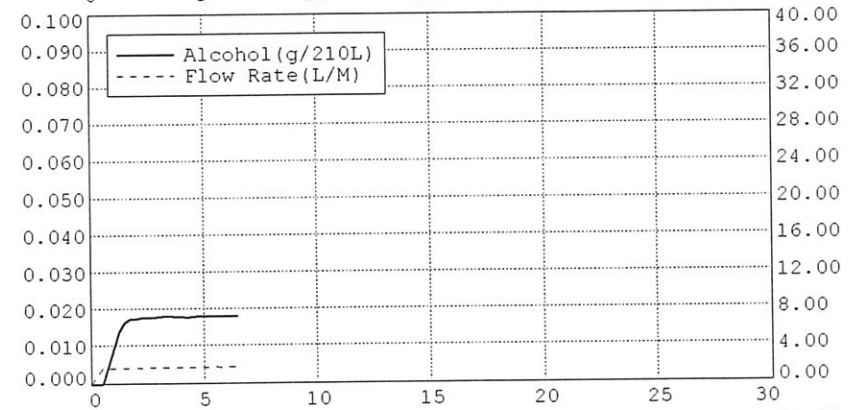
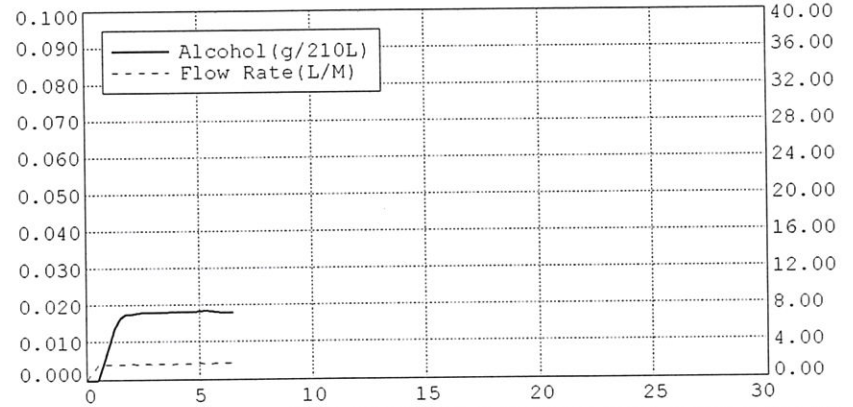
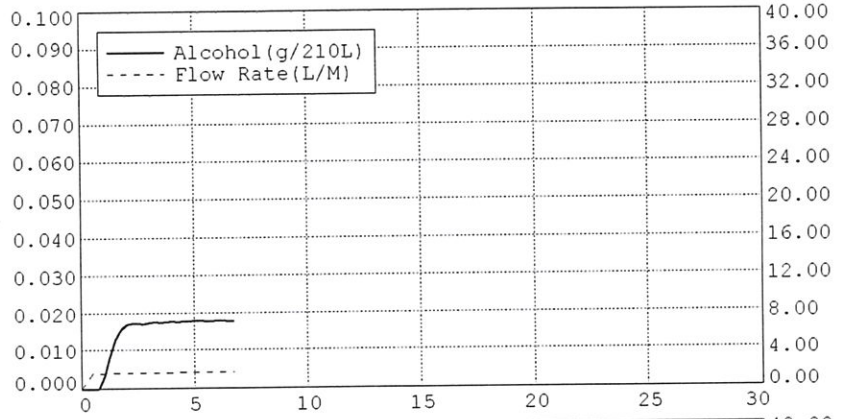
Alaska Department of Public Safety  
 DATAMASTER dmt: 100399

Date: 05/06/2025  
 Time: 08:55:52

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.020  
 TARGET AT 29.50: 0.020  
 LOT #: AG408002  
 EXPIRATION: 03/20/2026  
 TANK PRESSURE: 181 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 08:57 |
| INTERNAL STANDARD | VERIFIED | 08:57 |
| EXTERNAL STANDARD | 0.020    | 08:57 |
| BLANK TEST        | 0.000    | 08:58 |
| EXTERNAL STANDARD | 0.020    | 08:58 |
| BLANK TEST        | 0.000    | 08:59 |
| EXTERNAL STANDARD | 0.020    | 08:59 |
| BLANK TEST        | 0.000    | 09:00 |
| EXTERNAL STANDARD | 0.020    | 09:00 |
| BLANK TEST        | 0.000    | 09:01 |
| EXTERNAL STANDARD | 0.020    | 09:01 |
| BLANK TEST        | 0.000    | 09:02 |

Average = 0.0200  
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100399

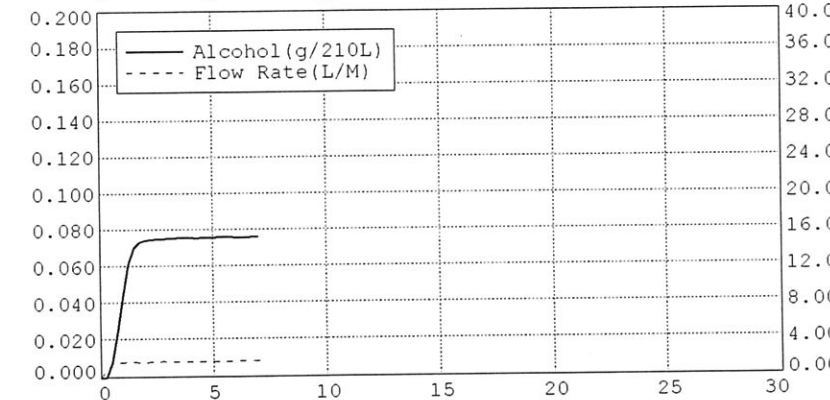
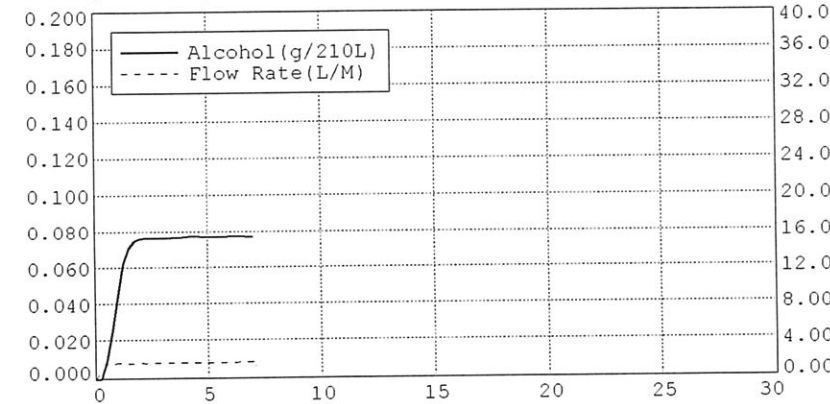
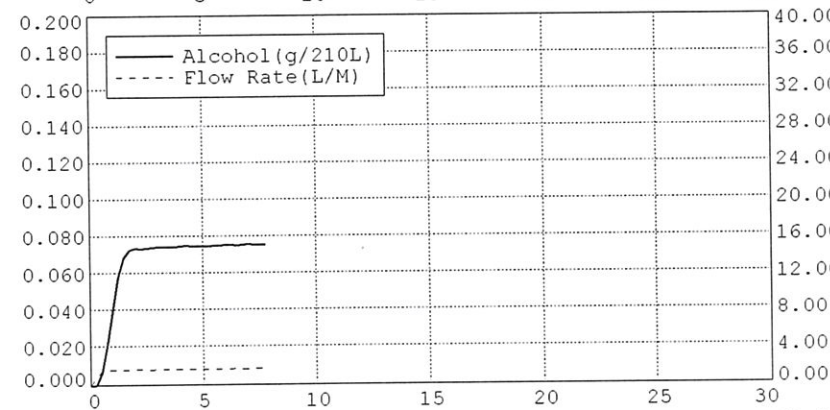
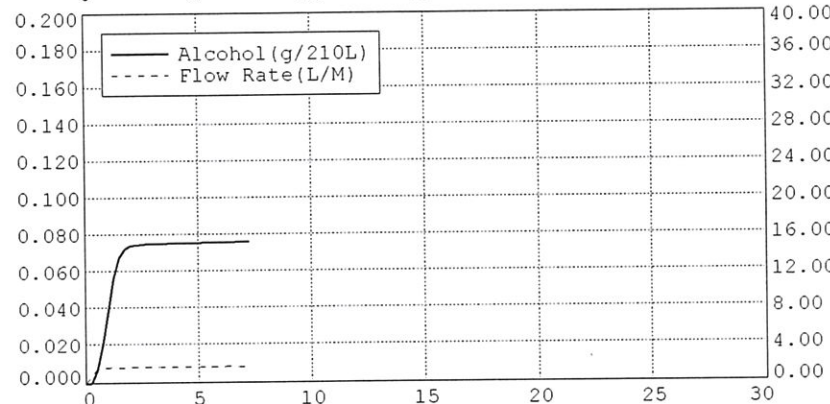
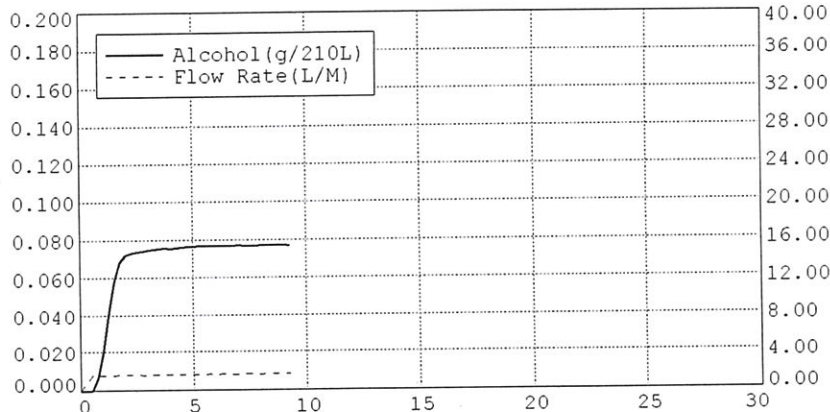
Date: 05/06/2025  
 Time: 09:03:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.50: 0.079  
 LOT #: AG335202  
 EXPIRATION: 12/18/2025  
 TANK PRESSURE: 154 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:05 |
| INTERNAL STANDARD | VERIFIED | 09:05 |
| EXTERNAL STANDARD | 0.077    | 09:05 |
| BLANK TEST        | 0.000    | 09:06 |
| EXTERNAL STANDARD | 0.077    | 09:06 |
| BLANK TEST        | 0.000    | 09:07 |
| EXTERNAL STANDARD | 0.076    | 09:08 |
| BLANK TEST        | 0.000    | 09:08 |
| EXTERNAL STANDARD | 0.077    | 09:09 |
| BLANK TEST        | 0.000    | 09:10 |
| EXTERNAL STANDARD | 0.080    | 09:10 |
| BLANK TEST        | 0.000    | 09:11 |

Average = 0.0774  
 Std Dev = 0.0015



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
 DATAMASTER dmt: 100399

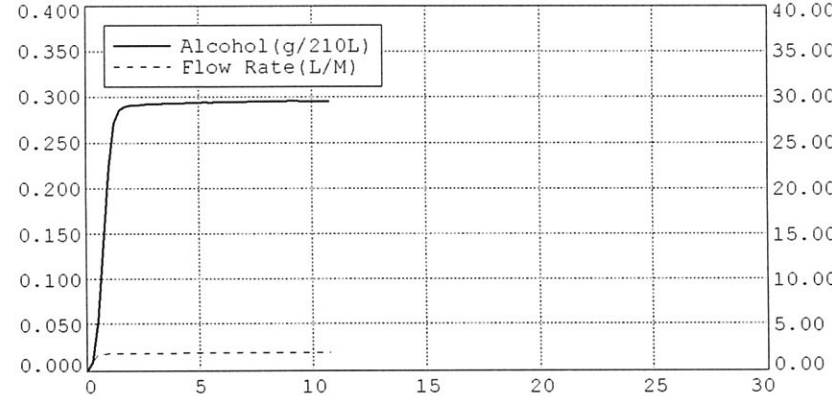
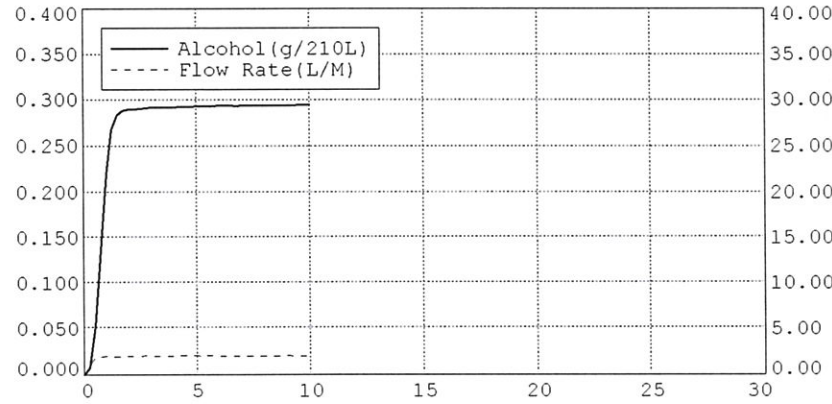
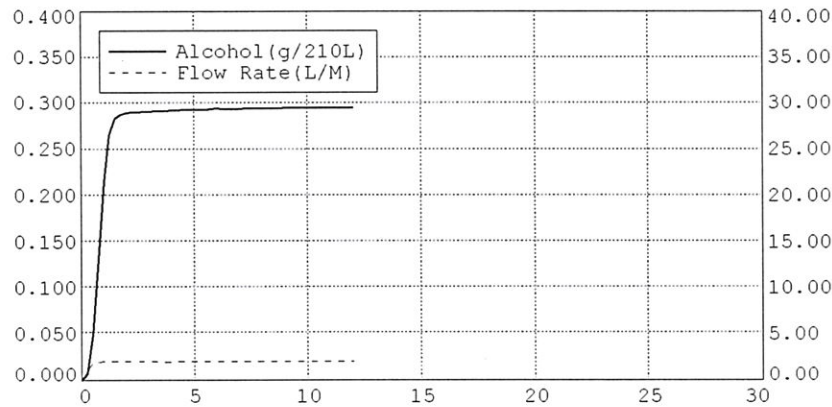
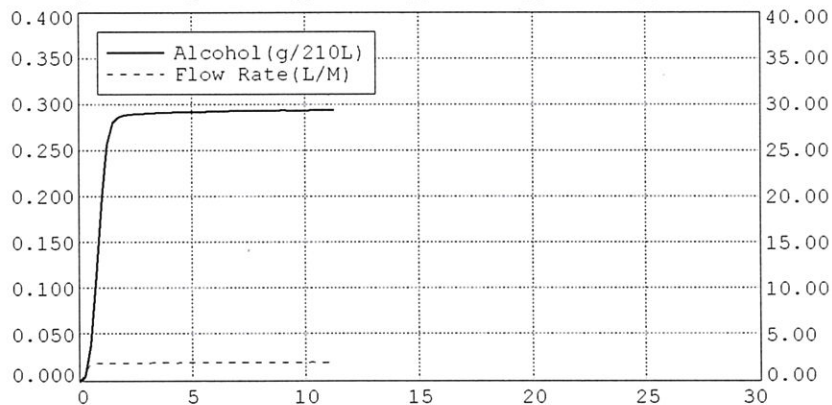
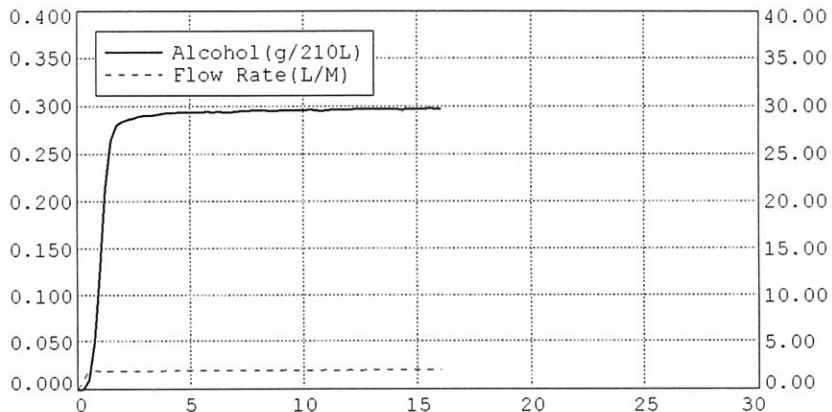
Date: 05/06/2025  
 Time: 09:15:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
 TARGET AT 29.50: 0.296  
 LOT #: AG427706  
 EXPIRATION: 10/03/2026  
 TANK PRESSURE: 365 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:16 |
| INTERNAL STANDARD | VERIFIED | 09:16 |
| EXTERNAL STANDARD | 0.299    | 09:17 |
| BLANK TEST        | 0.000    | 09:18 |
| EXTERNAL STANDARD | 0.293    | 09:18 |
| BLANK TEST        | 0.000    | 09:19 |
| EXTERNAL STANDARD | 0.295    | 09:19 |
| BLANK TEST        | 0.000    | 09:20 |
| EXTERNAL STANDARD | 0.295    | 09:21 |
| BLANK TEST        | 0.000    | 09:22 |
| EXTERNAL STANDARD | 0.296    | 09:22 |
| BLANK TEST        | 0.000    | 09:23 |

Average = 0.2956  
 Std Dev = 0.0022



SUPERVISOR TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100399

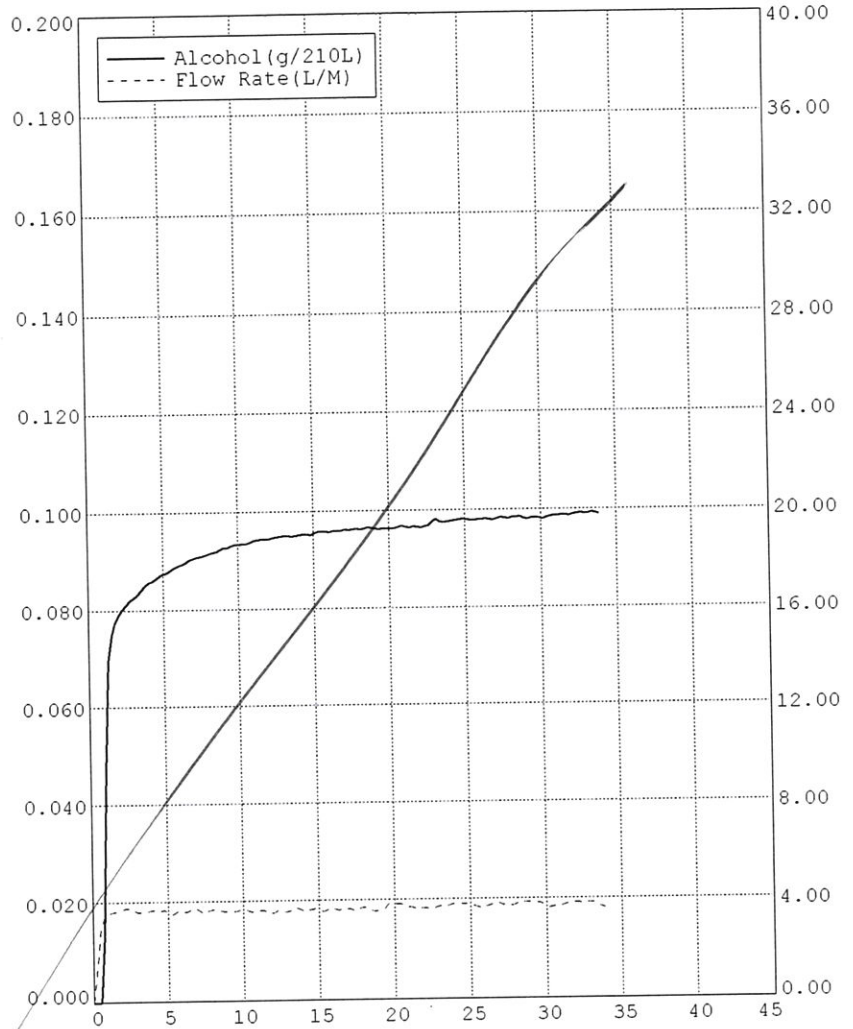
Date: 05/06/2025  
Time: 10:18:02

SUPERVISOR NAME:  
MEGAN CARLOCK  
OPERATOR'S #: 10747

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.100

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:19 |
| INTERNAL STANDARD | VERIFIED | 10:19 |
| EXTERNAL STANDARD | 0.101    | 10:20 |

Blank Error



Did Not Use  
likely caused by  
environmental factors.  
MVC 5/6/25



SUPERVISOR TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100375

Date: 05/06/2025  
Time: 10:43:00

SUPERVISOR NAME:  
MEGAN CARLOCK  
OPERATOR'S #: 10747

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.100

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:44 |
| INTERNAL STANDARD | VERIFIED | 10:44 |
| EXTERNAL STANDARD | 0.098    | 10:44 |
| BLANK TEST        | 0.000    | 10:45 |
| EXTERNAL STANDARD | 0.098    | 10:45 |
| BLANK TEST        | 0.000    | 10:46 |
| EXTERNAL STANDARD | 0.098    | 10:47 |
| BLANK TEST        | 0.000    | 10:48 |
| EXTERNAL STANDARD | 0.098    | 10:48 |
| BLANK TEST        | 0.000    | 10:49 |
| EXTERNAL STANDARD | 0.098    | 10:49 |

Detector Overflow

*Did Not Use  
MUC 5/6/25*

