

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100415

Analyst/Technician(s): Megan Carlock

Start Date: 1/8/25

Date Instrument Received: 1/8/25

Reason for instrument evaluation

Returned due to fatal errors and ticket db error.

### Visual Inspection:

- |                                                                                               |                                                                         |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Clean                                                     | <input checked="" type="checkbox"/> Replace missing screws              |
| <input checked="" type="checkbox"/> Cermetex Box (modem) is secure                            | <input checked="" type="checkbox"/> Ensure modem cable present          |
| <input checked="" type="checkbox"/> Double Check Valve secured to wall                        | <input checked="" type="checkbox"/> All tubing and connections secure   |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 replacement O-rings in bag |                                                                         |
| <input checked="" type="checkbox"/> Attach VOC                                                | <input checked="" type="checkbox"/> VOC Internal Standard $\leq 3.00\%$ |
|                                                                                               | <input checked="" type="checkbox"/> Verify software version             |

Condition of item: ☒ No apparent damage ☐ Damaged

NOTE: As Found Linearity is required if the instrument is not damaged and the internal standard value is not more than 4.00%

### As Found Conditions (if performed):

Barometric Pressure (inHg): 29.17 Temperature (C): 22.7 Relative Humidity (%) 16

Linearity Test Levels (g/210L): 0.020, 0.080, 0.300

Notes: Replaced double sided tape on double check valve. Replaced O-ring

☒ Attach Non-Drinking Subject Test

### Conclusion:

- |                                                           |                                       |
|-----------------------------------------------------------|---------------------------------------|
| <input type="checkbox"/> Ready for Adjustment             | <input type="checkbox"/> Needs Repair |
| <input checked="" type="checkbox"/> Ready for Calibration |                                       |

Lab Work End Date: 1/8/25

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100415

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/08/2025

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.69: 0.079  
LOT #: 09523080A1  
EXPIRATION: 05/05/2025  
TANK PRESSURE: 151 psi

|                                   |          |       |
|-----------------------------------|----------|-------|
| BLANK TEST                        | 0.000    | 10:29 |
| INTERNAL STANDARD                 | VERIFIED | 10:30 |
| Xq = 0.102 (0.00%)                |          |       |
| EXTERNAL STANDARD                 | 0.079    | 10:30 |
| X[1] = 0.0795 (-0.0013) (0.0013)  |          |       |
| BLANK TEST                        | 0.000    | 10:31 |
| EXTERNAL STANDARD                 | 0.080    | 10:31 |
| X[1] = 0.0798 (-0.0013) (0.0010)  |          |       |
| BLANK TEST                        | 0.000    | 10:32 |
| EXTERNAL STANDARD                 | 0.080    | 10:32 |
| X[1] = 0.0802 (-0.0007) (0.0011)  |          |       |
| BLANK TEST                        | 0.000    | 10:33 |
| EXTERNAL STANDARD                 | 0.080    | 10:33 |
| X[1] = 0.0804 (-0.0019) (-0.0004) |          |       |
| BLANK TEST                        | 0.000    | 10:34 |
| EXTERNAL STANDARD                 | 0.080    | 10:35 |
| X[1] = 0.0798 (-0.0019) (0.0018)  |          |       |
| BLANK TEST                        | 0.000    | 10:35 |

Average = 0.0798  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

|                         |        |
|-------------------------|--------|
| Sample Chamber = 49.4°C | PASSED |
| (44.0°C - 52.0°C)       |        |
| Breath Tube = 47.0°C    | PASSED |
| (38.0°C - 50.0°C)       |        |

### SETTINGS

|                         |        |
|-------------------------|--------|
| Lamp Voltage = 1.86 V   | PASSED |
| (1.04 V - 2.42 V)       |        |
| Cooler Voltage = 1.76 V | PASSED |
| (1.04 V - 2.42 V)       |        |
| Bias Voltage = 79 V     | PASSED |
| (47 V - 111 V)          |        |
| Chopper Freq = 523 Hz   | PASSED |
| (475 Hz - 575 Hz)       |        |
| Barometer = 29.7 in     |        |

### PUMP INFO

|                         |        |
|-------------------------|--------|
| Flow Rate = 4.977 L/M   | PASSED |
| (3.500 L/M - 6.500 L/M) |        |

### DETECTOR INFO

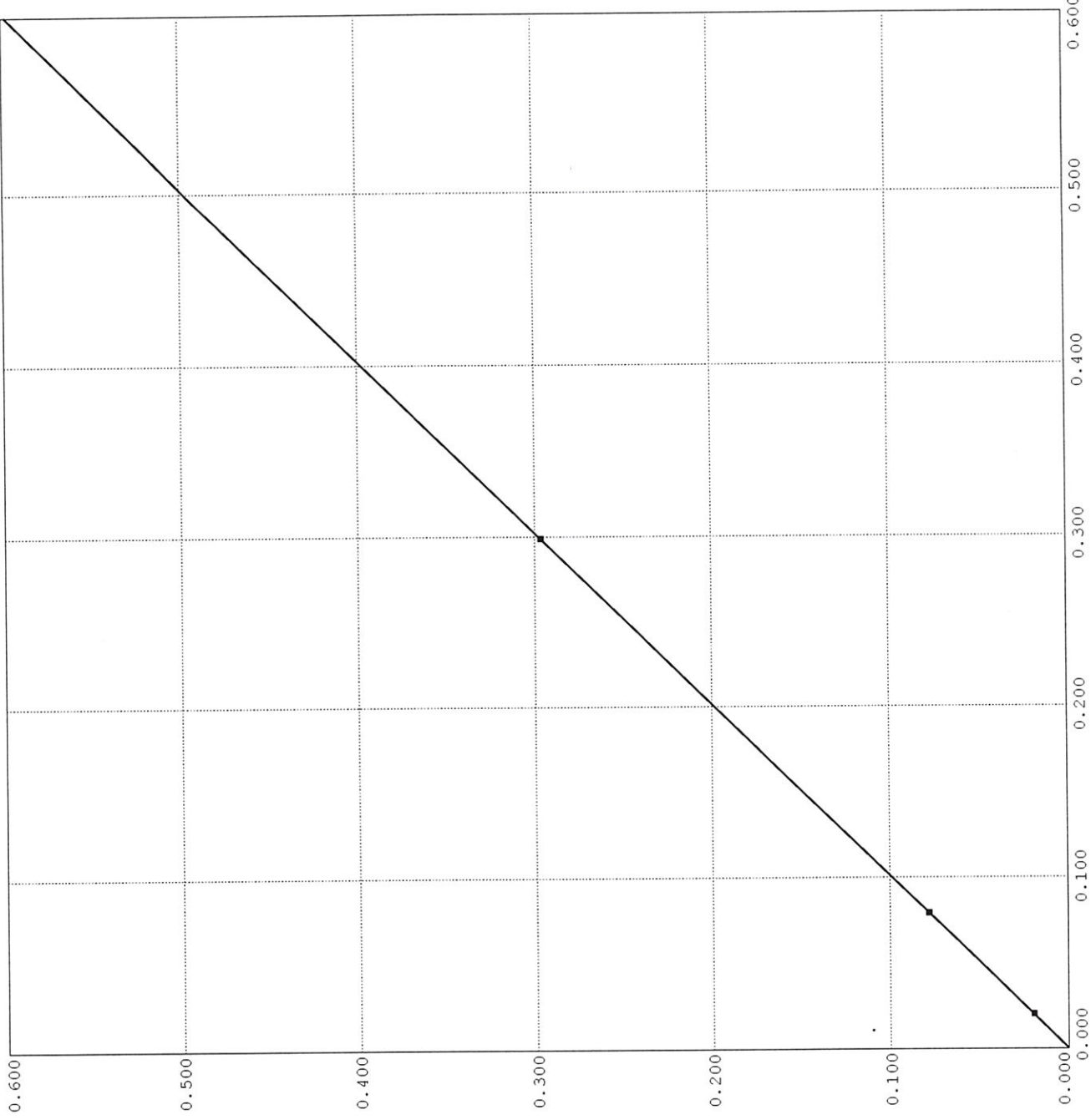
|                      |        |
|----------------------|--------|
| PUMP ON              | PASSED |
| (0.002 V <= 0.010 V) |        |
| PUMP OFF             | PASSED |
| (0.002 V <= 0.010 V) |        |

### FILTER INFO

|          |        |
|----------|--------|
| Filter 1 | PASSED |
| Filter 2 | PASSED |
| Filter 3 | PASSED |

### INTERNAL STANDARD

|                  |        |
|------------------|--------|
| Xq = 0.101 0.35% | PASSED |
| (0.00% - 4.00%)  |        |



LINEARITY CHECK

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100415  
-----

Date: 01/08/2025  
Time: 11:13:04

SUPERVISOR NAME:  
MEGAN CARLOCK  
OPERATOR'S #: 10747

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.020  | 0.0200  | 0.0007    |
| 0.079  | 0.0792  | 0.0004    |
| 0.298  | 0.2972  | 0.0004    |

SLOPE = 0.996663  
R<sup>2</sup> = 0.999998

MNC

# LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100415

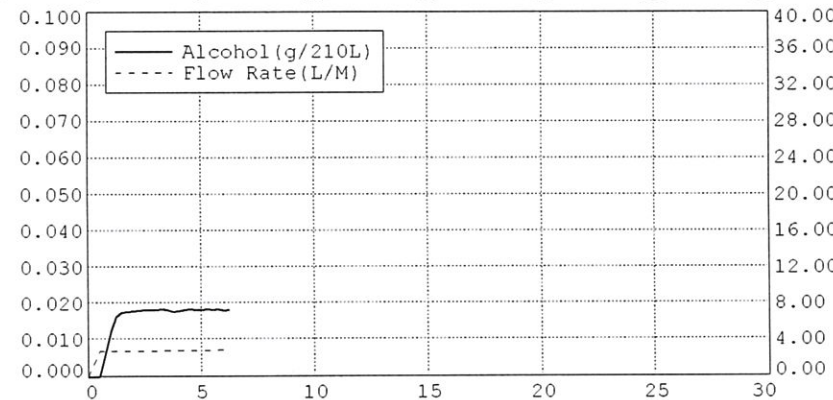
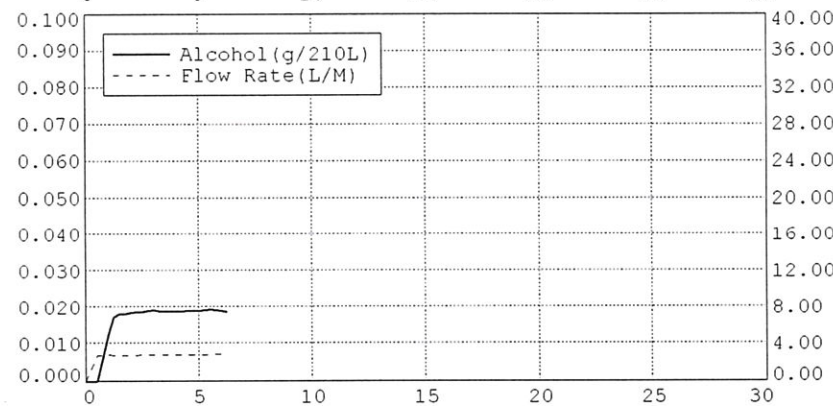
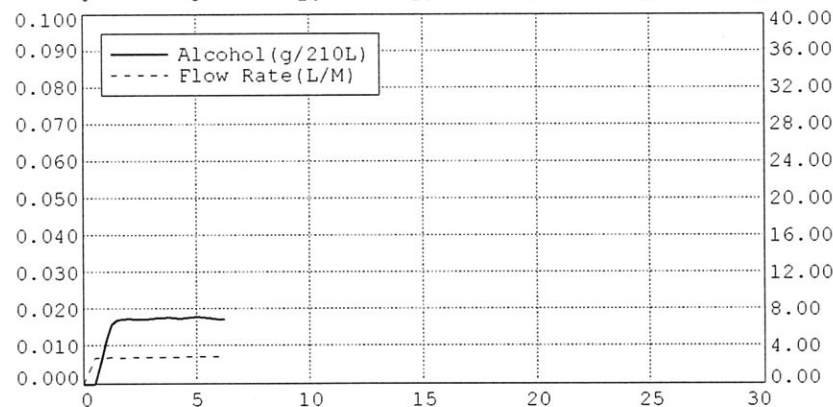
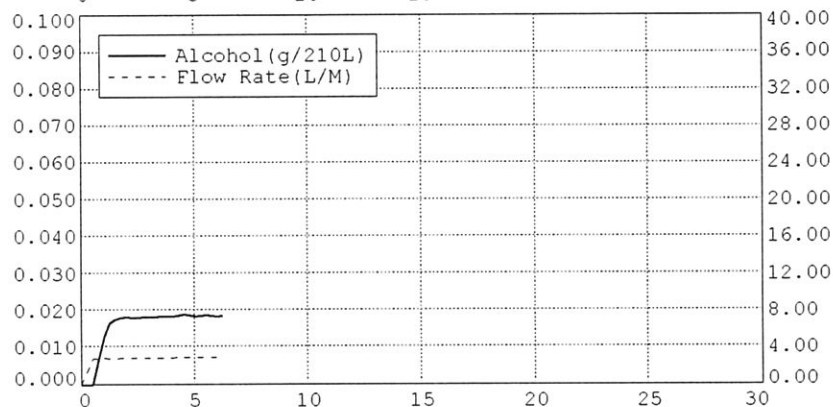
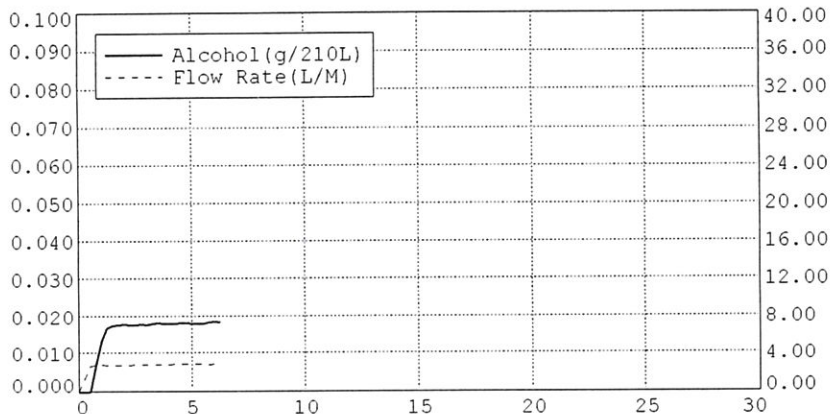
Date: 01/08/2025  
Time: 11:13:04

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.69: 0.020  
LOT #: AG408002  
EXPIRATION: 03/20/2026  
TANK PRESSURE: 632 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:14 |
| INTERNAL STANDARD | VERIFIED | 11:14 |
| EXTERNAL STANDARD | 0.020    | 11:14 |
| BLANK TEST        | 0.000    | 11:15 |
| EXTERNAL STANDARD | 0.020    | 11:15 |
| BLANK TEST        | 0.000    | 11:16 |
| EXTERNAL STANDARD | 0.019    | 11:16 |
| BLANK TEST        | 0.000    | 11:17 |
| EXTERNAL STANDARD | 0.021    | 11:17 |
| BLANK TEST        | 0.000    | 11:18 |
| EXTERNAL STANDARD | 0.020    | 11:19 |
| BLANK TEST        | 0.000    | 11:19 |

Average = 0.0200  
Std Dev = 0.0007





# LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100415

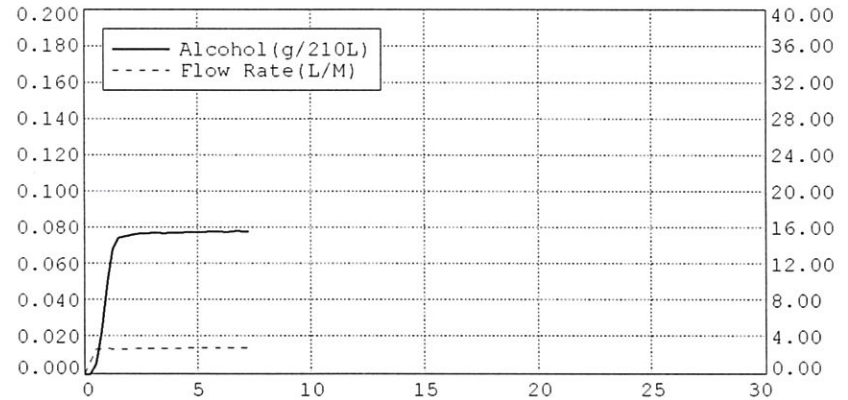
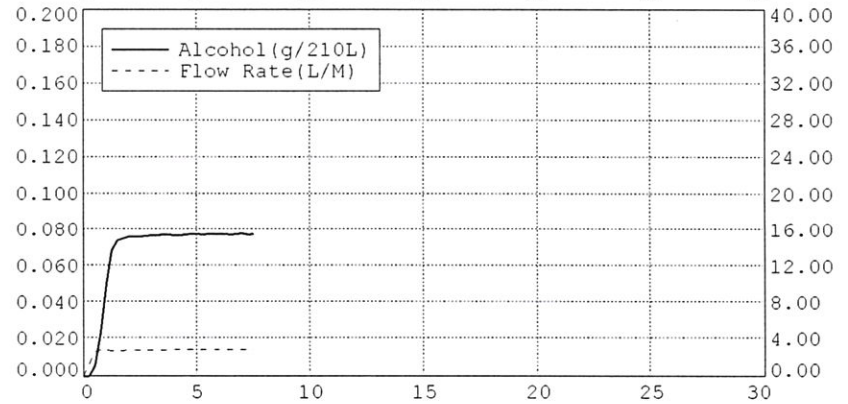
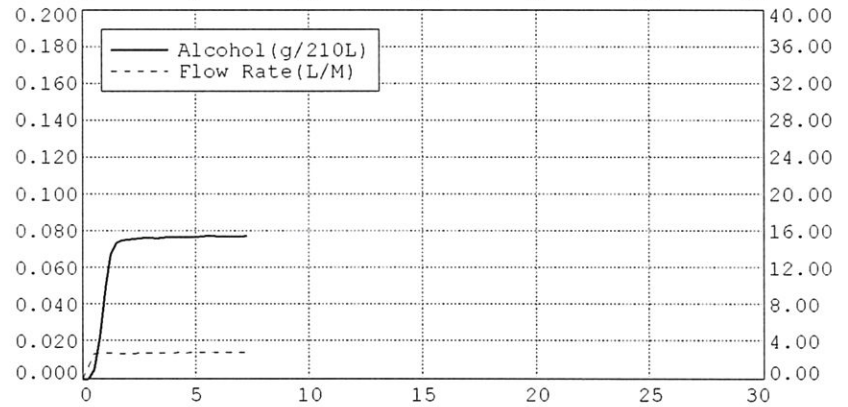
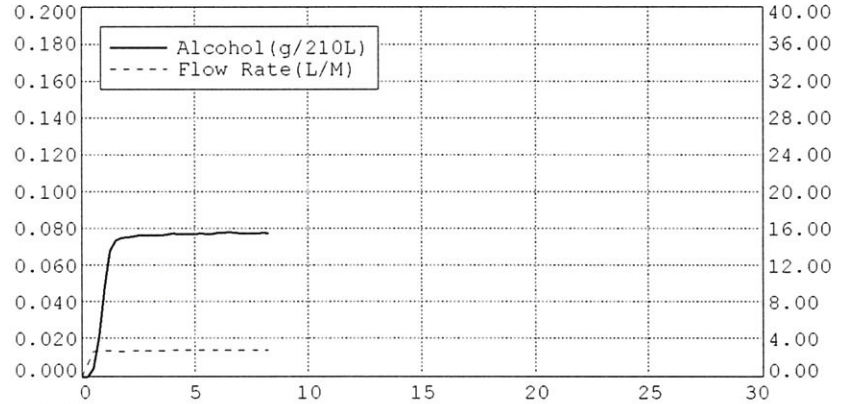
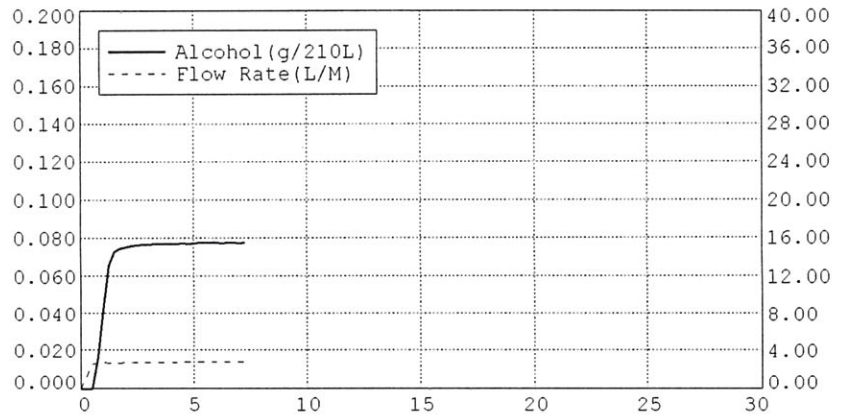
Date: 01/08/2025  
Time: 11:21:39

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.70: 0.079  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 577 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:22 |
| INTERNAL STANDARD | VERIFIED | 11:23 |
| EXTERNAL STANDARD | 0.080    | 11:23 |
| BLANK TEST        | 0.000    | 11:24 |
| EXTERNAL STANDARD | 0.079    | 11:24 |
| BLANK TEST        | 0.000    | 11:25 |
| EXTERNAL STANDARD | 0.079    | 11:25 |
| BLANK TEST        | 0.000    | 11:26 |
| EXTERNAL STANDARD | 0.079    | 11:26 |
| BLANK TEST        | 0.000    | 11:27 |
| EXTERNAL STANDARD | 0.079    | 11:28 |
| BLANK TEST        | 0.000    | 11:28 |

Average = 0.0792  
Std Dev = 0.0004



# LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100415

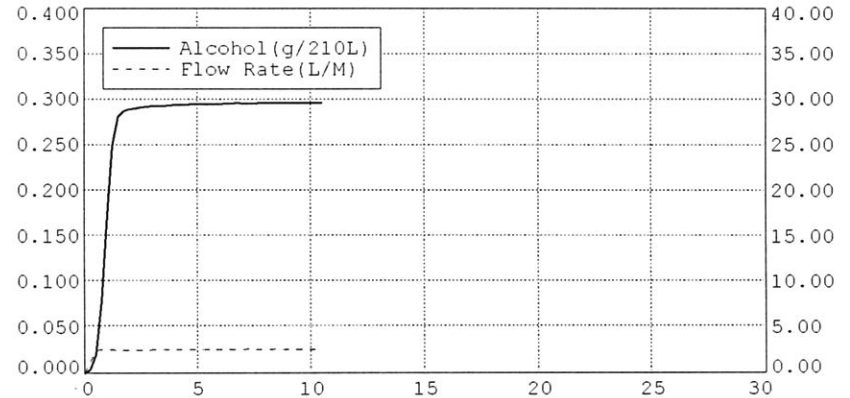
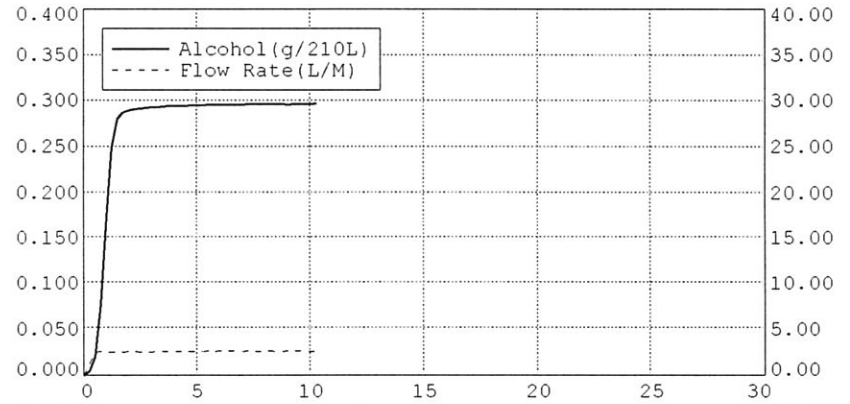
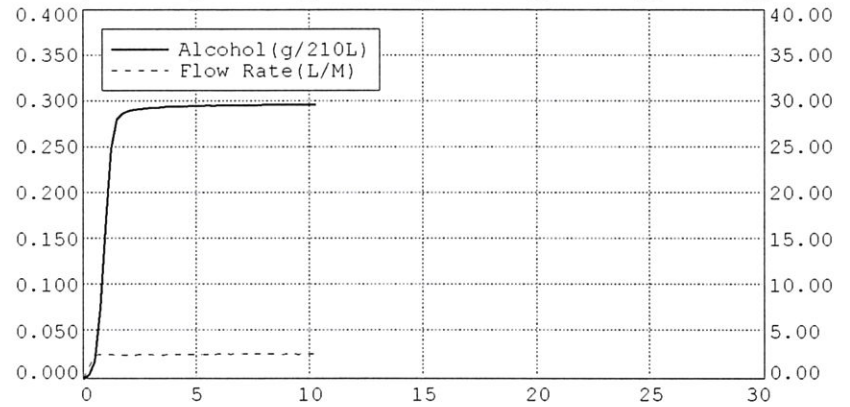
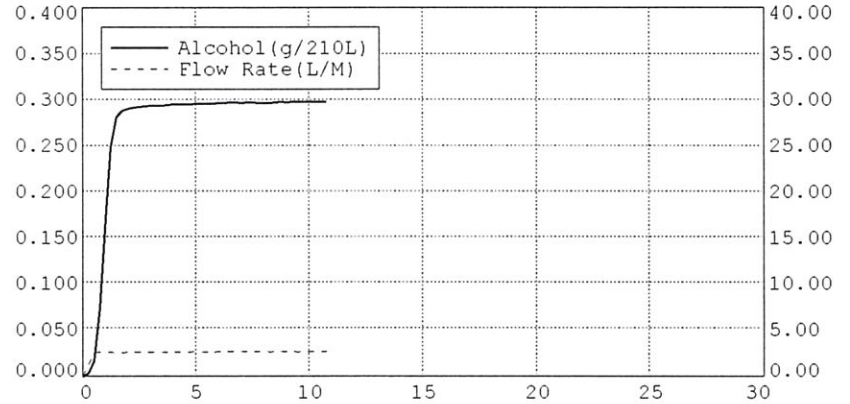
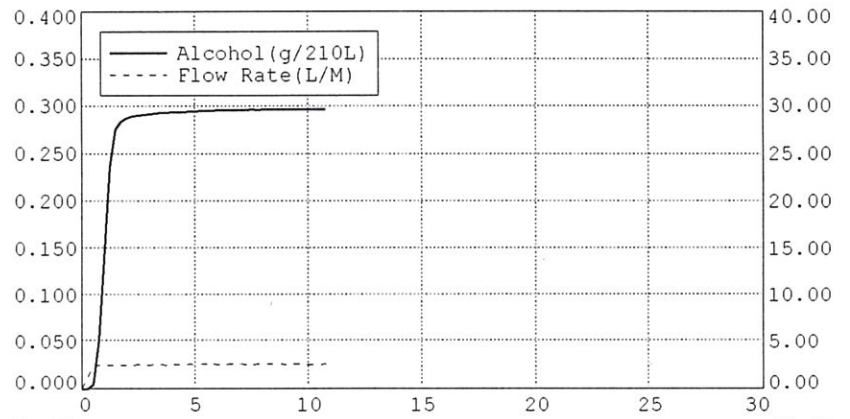
Date: 01/08/2025  
Time: 11:29:50

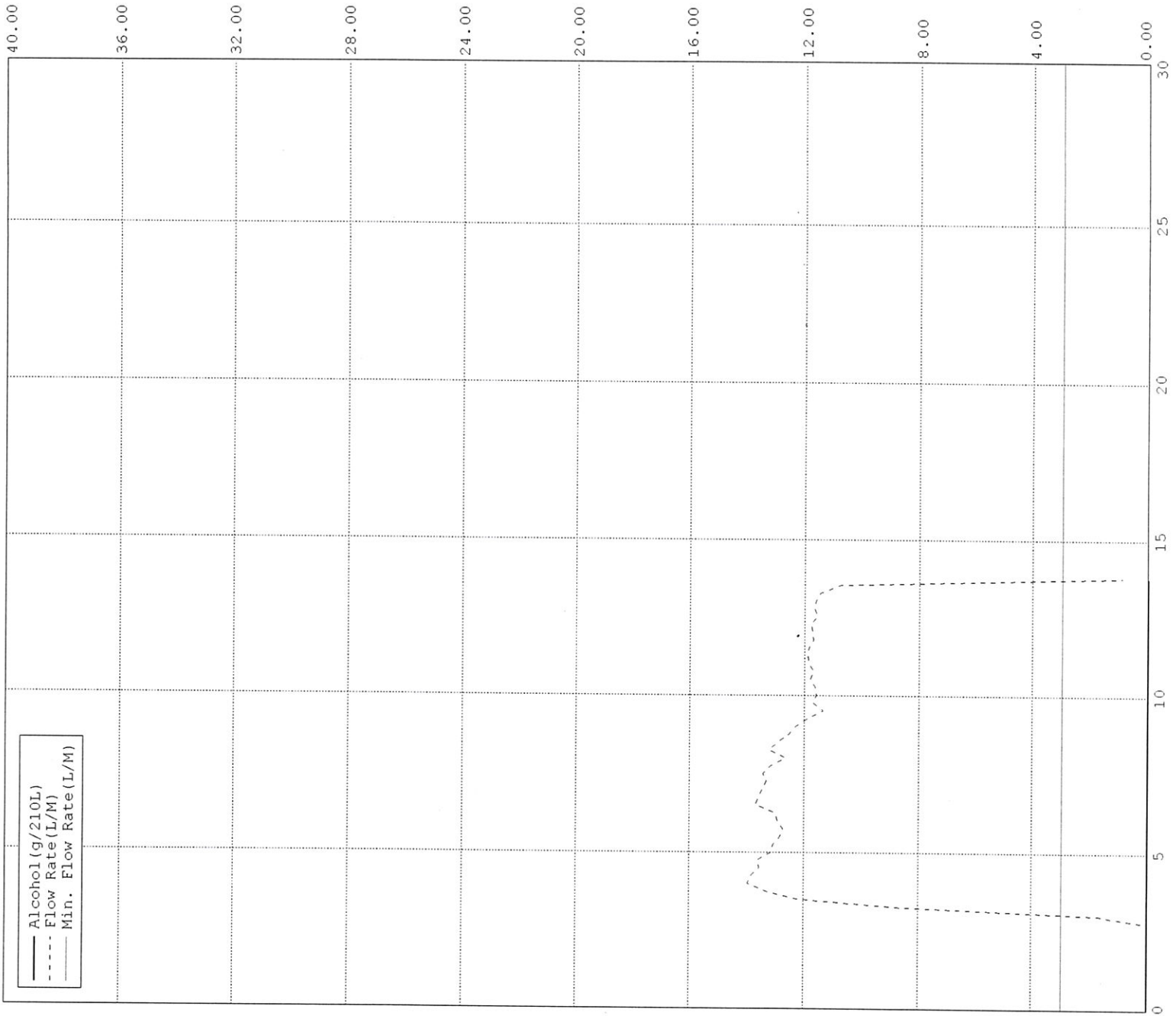
## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 29.70: 0.298  
LOT #: AG427706  
EXPIRATION: 10/03/2026  
TANK PRESSURE: 251 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:31 |
| INTERNAL STANDARD | VERIFIED | 11:31 |
| EXTERNAL STANDARD | 0.297    | 11:31 |
| BLANK TEST        | 0.000    | 11:32 |
| EXTERNAL STANDARD | 0.298    | 11:32 |
| BLANK TEST        | 0.000    | 11:33 |
| EXTERNAL STANDARD | 0.297    | 11:34 |
| BLANK TEST        | 0.000    | 11:35 |
| EXTERNAL STANDARD | 0.297    | 11:35 |
| BLANK TEST        | 0.000    | 11:36 |
| EXTERNAL STANDARD | 0.297    | 11:36 |
| BLANK TEST        | 0.000    | 11:37 |

Average = 0.2972  
Std Dev = 0.0004





SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100415

Date: 01/08/2025  
Time: 11:42:30

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXX

OPERATOR NAME:  
MEGAN CARLOCK  
OPERATOR'S #: 10747

DEPT/AGENCY:  
NON-DRINKING SUBJECT TEST  
CASE/REPORT: XXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.69: 0.079  
LOT #: AG335202  
EXPIRATION: 12/18/2025

| DIAGNOSTIC CHECK           | PASSED   | 11:43 |
|----------------------------|----------|-------|
| BLANK TEST                 | 0.000    | 11:43 |
| INTERNAL STANDARD          | VERIFIED | 11:43 |
| EXTERNAL STANDARD          | 0.079    | 11:43 |
| BLANK TEST                 | 0.000    | 11:44 |
| SUBJECT SAMPLE (Vol=2.18L) | 0.000    | 11:45 |
| BLANK TEST                 | 0.000    | 11:46 |
| EXTERNAL STANDARD          | 0.080    | 11:46 |
| BLANK TEST                 | 0.000    | 11:47 |