

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100369

Analyst/Technician(s): Megan Carlock

Start Date: 8/1/24

Date Instrument Received: 8/1/24

Reason for instrument evaluation

Preventative maintenance due and Interference Detected status message while performing VOCs.

### Visual Inspection:

- Clean
- Replace missing screws
- Cermetex Box (modem) is secure
- Ensure modem cable present
- Double Check Valve secured to wall
- All tubing and connections secure
- O-ring inspection and ensure 2 replacement O-rings in bag
- Attach VOC
- VOC Internal Standard  $\leq 3.00\%$
- 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): 29.66 Temperature (C): 21.5 Relative Humidity (%) 38

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

Notes: Replaced O-ring and replaced missing plastic foot piece

Attach Non-Drinking Subject Test

### Conclusion:

- Ready for Adjustment
- Needs Repair
- Ready for Calibration

Lab Work End Date: 8/1/24

Page 1 of 1

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Approved by: Chemistry Supervisor

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100369

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date:08/01/2024

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.88: 0.080  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 1022 psi

BLANK TEST	0.000	13:03
INTERNAL STANDARD	VERIFIED	13:04
Xq = 0.084 (0.62%)		
EXTERNAL STANDARD	0.077	13:04
X[1] = 0.0772 (-0.0006) (-0.0002)		
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.077	13:05
X[1] = 0.0775 (-0.0008) (0.0001)		
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.078	13:06
X[1] = 0.0782 (0.0001) (0.0005)		
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.078	13:07
X[1] = 0.0780 (-0.0008) (-0.0003)		
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.079	13:08
X[1] = 0.0786 (0.0000) (0.0001)		
BLANK TEST	0.000	13:09

Average = 0.0778  
Std Dev = 0.0008

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 41.3°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.58 V	PASSED
(0.93 V - 2.17 V)	
Cooler Voltage = 1.56 V	PASSED
(1.00 V - 2.32 V)	
Bias Voltage = 80 V	PASSED
(47 V - 109 V)	
Chopper Freq = 512 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

### PUMP INFO

Flow Rate = 4.664 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

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

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

### INTERNAL STANDARD

Xq = 0.083	0.52%	(0.00% - 4.00%)
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LINEARITY CHECK

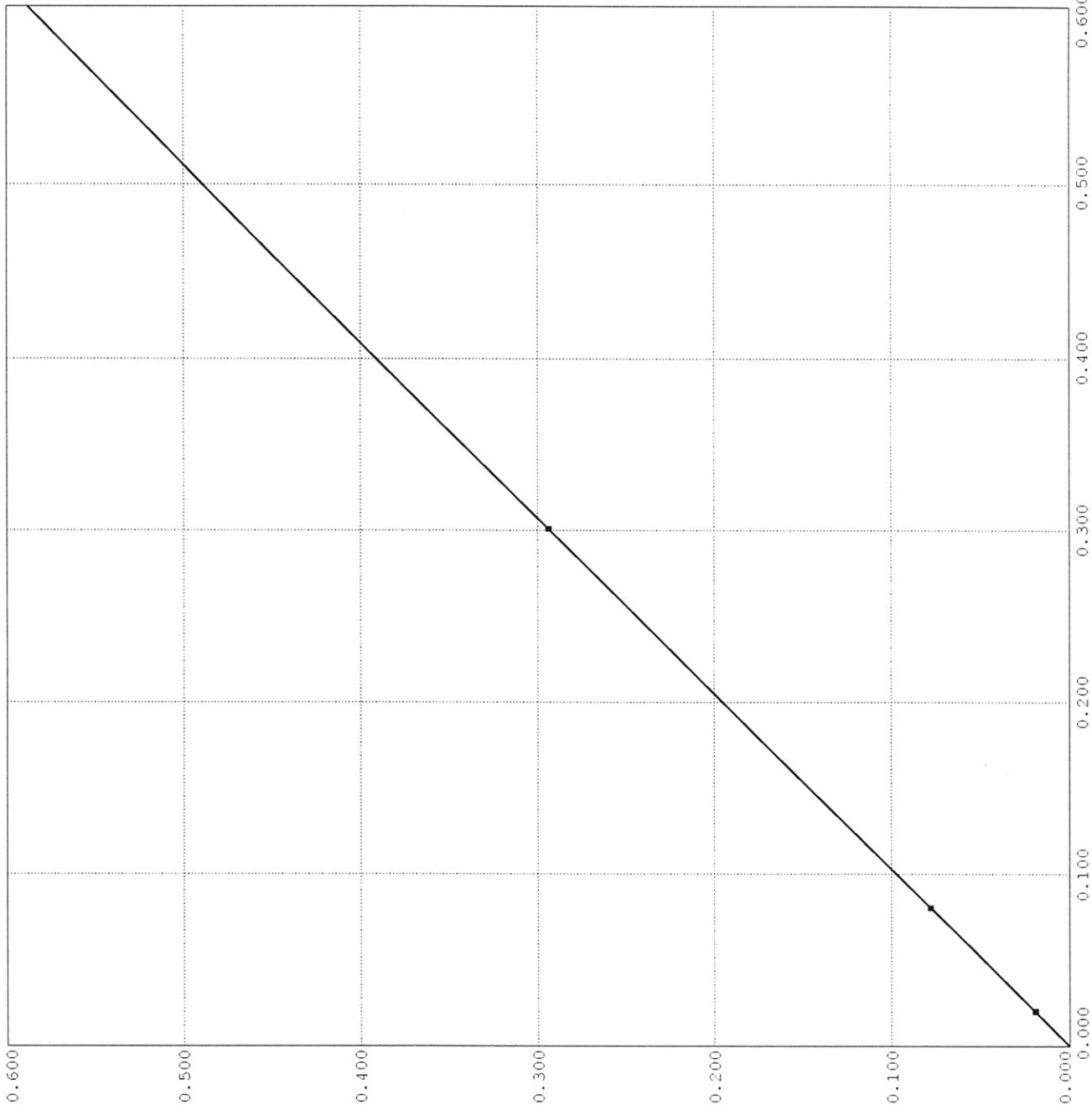
-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100369  
 -----

Date: 08/01/2024  
 Time: 13:13:08

SUPERVISOR NAME:  
 MEGAN CARLOCK  
 OPERATOR'S #: 10747

TARGET	AVERAGE	STD. DEV.
0.020	0.0198	0.0004
0.080	0.0790	0.0007
0.300	0.2944	0.0005

SLOPE = 0.980276  
 R<sup>2</sup> = 0.999998



MNC

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100369

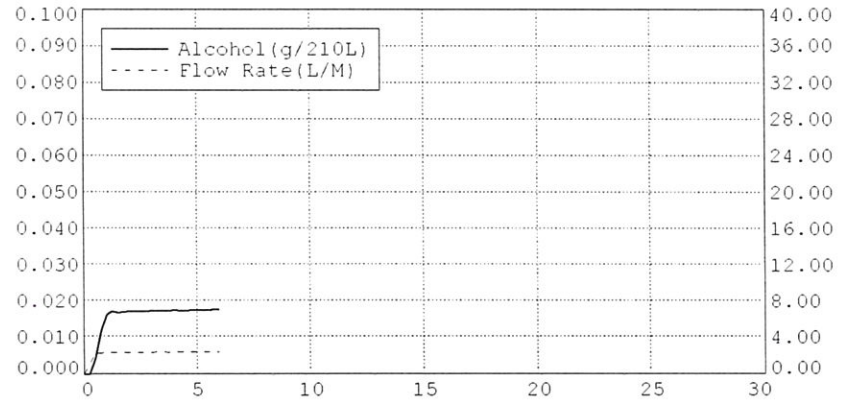
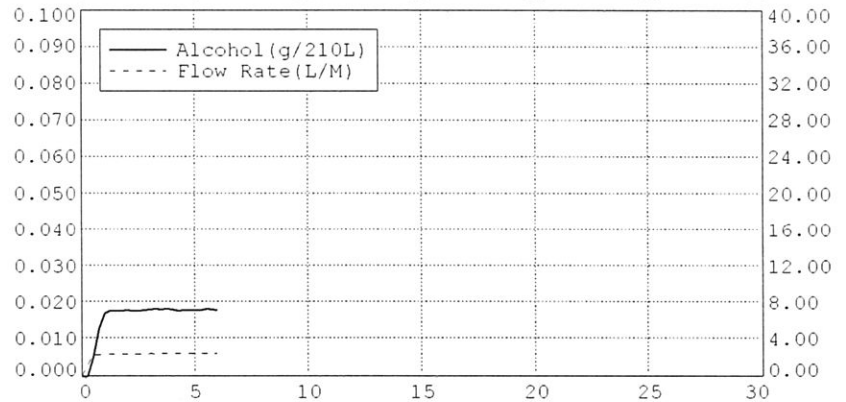
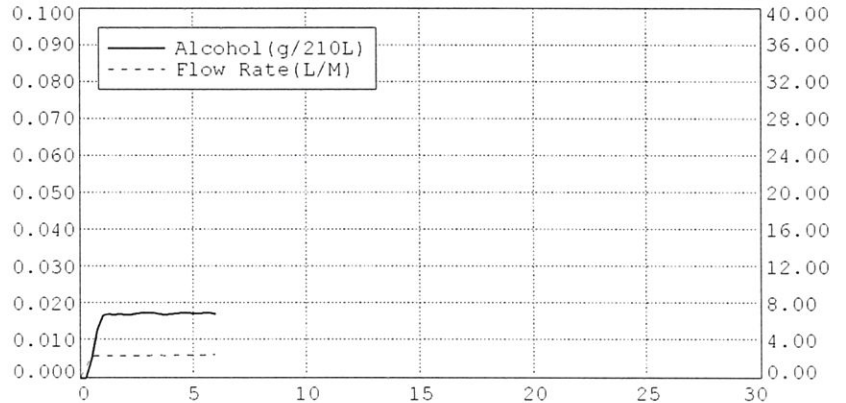
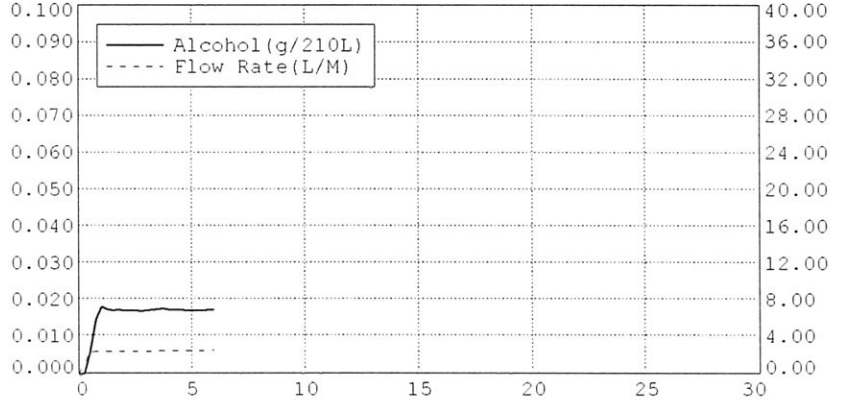
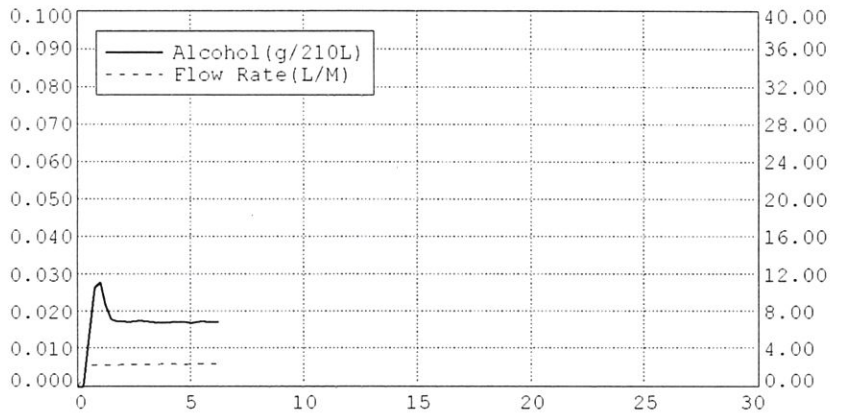
Date: 08/01/2024  
Time: 13:13:10

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.89: 0.020  
LOT #: AG408002  
EXPIRATION: 03/20/2026  
TANK PRESSURE: 496 psi

BLANK TEST	0.000	13:14
INTERNAL STANDARD	VERIFIED	13:14
EXTERNAL STANDARD	0.020	13:15
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.019	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.020	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.020	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.020	13:19
BLANK TEST	0.000	13:20

Average = 0.0198  
Std Dev = 0.0004





LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100369

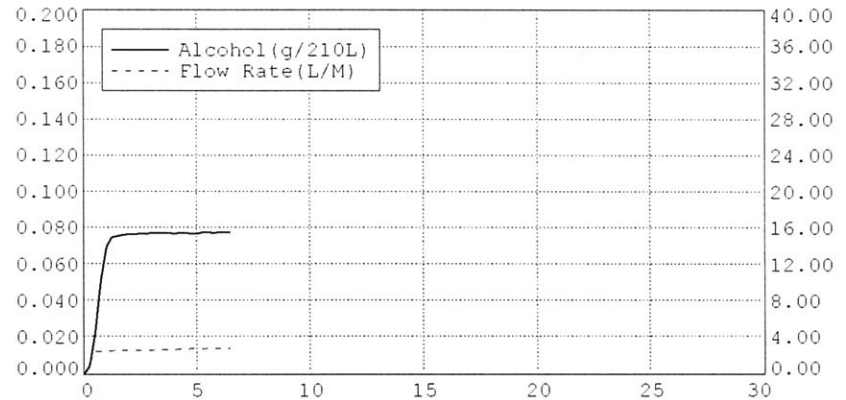
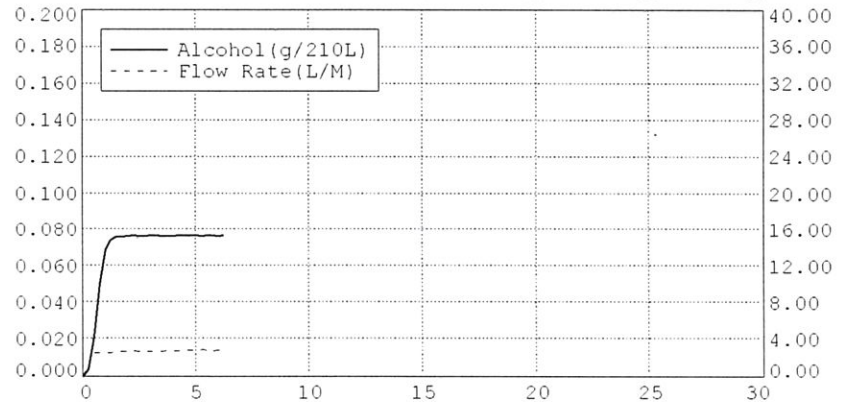
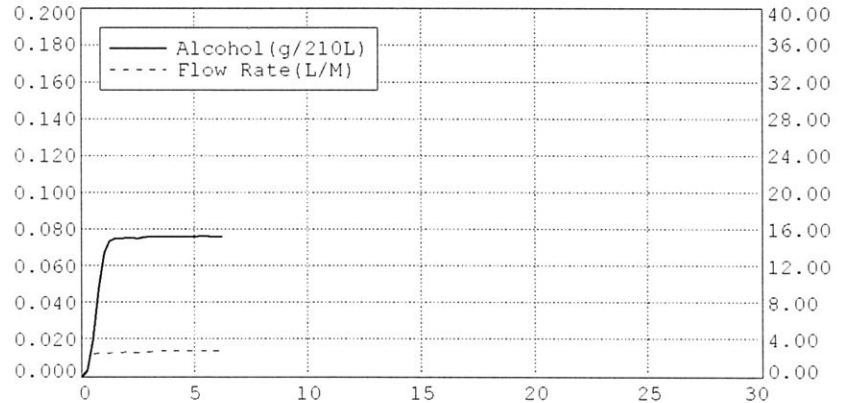
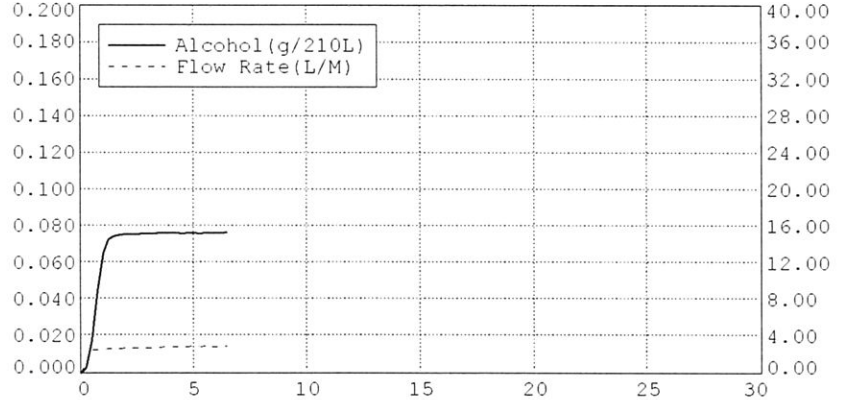
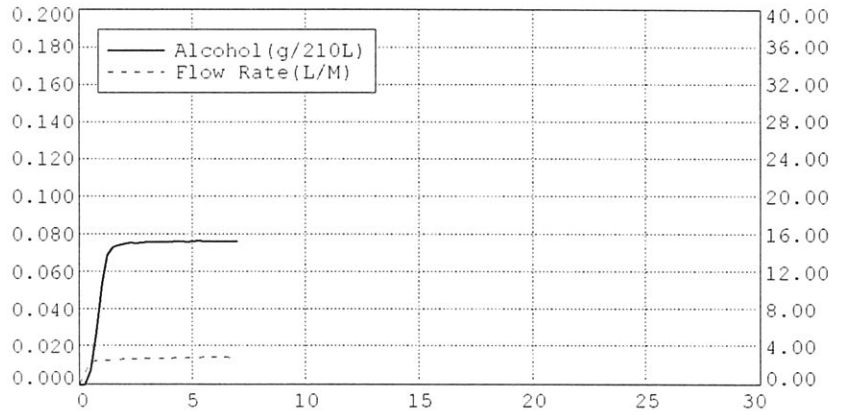
Date: 08/01/2024  
Time: 13:21:24

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.88: 0.080  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 999 psi

BLANK TEST	0.000	13:22
INTERNAL STANDARD	VERIFIED	13:22
EXTERNAL STANDARD	0.079	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.078	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.079	13:25
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.079	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.080	13:27
BLANK TEST	0.000	13:28

Average = 0.0790  
Std Dev = 0.0007



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100369

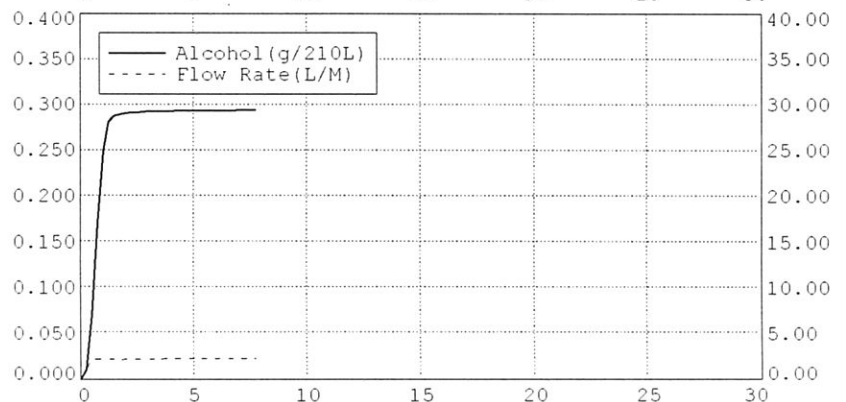
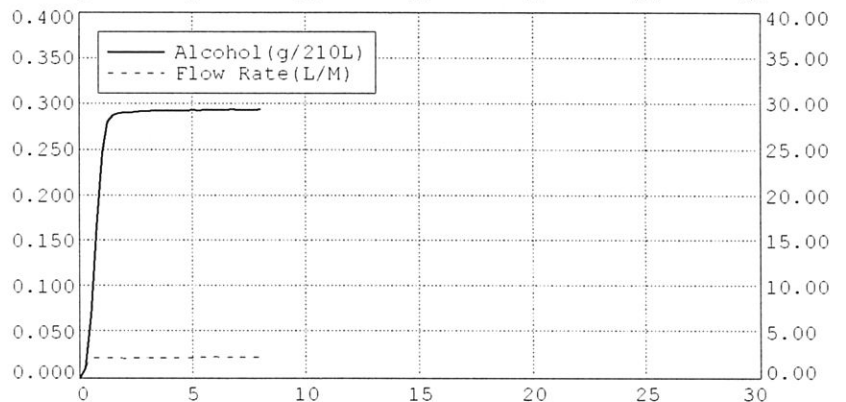
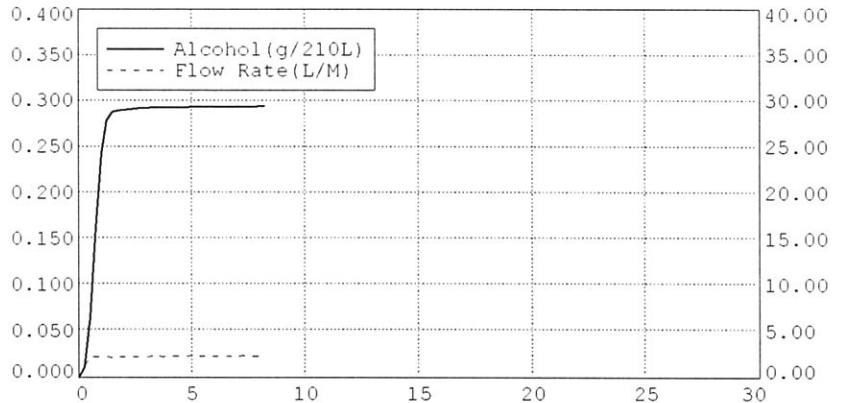
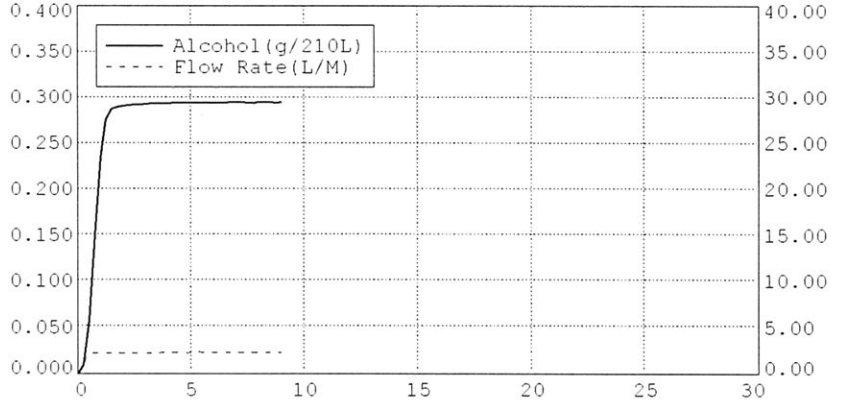
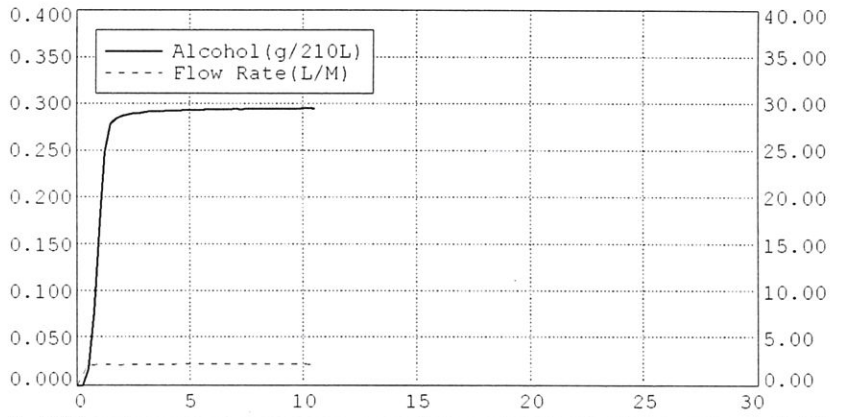
Date: 08/01/2024  
Time: 13:28:43

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 29.89: 0.300  
LOT #: AG327804  
EXPIRATION: 10/05/2025  
TANK PRESSURE: 237 psi

BLANK TEST	0.000	13:30
INTERNAL STANDARD	VERIFIED	13:30
EXTERNAL STANDARD	0.295	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.295	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.294	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.294	13:34
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.294	13:35
BLANK TEST	0.000	13:36

Average = 0.2944  
Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100369

Date: 08/01/2024  
Time: 13:44:27

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 29.88: 0.080  
LOT #: AG335202  
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	13:45
BLANK TEST	0.000	13:45
INTERNAL STANDARD	VERIFIED	13:45
EXTERNAL STANDARD	0.079	13:45
BLANK TEST	0.000	13:46
SUBJECT SAMPLE (Vol=2.34L)	0.000	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.080	13:48
BLANK TEST	0.000	13:49

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