

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100356

Analyst/Technician(s): Megan Carlock

Start Date: 10/29/24

Date Instrument Received: 10/2/24 9/27/2024 MNC 11/15/24

Reason for instrument evaluation

Received a fatal error and ticket db error messages.

### 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 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): 29.07 Temperature (C): 20.4 Relative Humidity (%) 21

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

Notes: Replaced O-ring. Second internal standard on the VOC is above 3%.

Attach Non-Drinking Subject Test

### Conclusion:

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

Lab Work End Date: 10/29/24

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Approved by: Chemistry Supervisor

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100356

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/29/2024

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.04: 0.078  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 797 psi

BLANK TEST	0.000	09:23
INTERNAL STANDARD	VERIFIED	09:23
Xq = 0.103 (3.39%)		
EXTERNAL STANDARD	0.077	09:23
X[1] = 0.0771 (0.0009) (0.0030)		
BLANK TEST	0.000	09:24
EXTERNAL STANDARD	0.078	09:24
X[1] = 0.0776 (0.0005) (0.0021)		
BLANK TEST	0.000	09:25
EXTERNAL STANDARD	0.078	09:25
X[1] = 0.0776 (0.0002) (0.0017)		
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.077	09:26
X[1] = 0.0775 (0.0007) (0.0021)		
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.077	09:28
X[1] = 0.0774 (0.0000) (0.0018)		
BLANK TEST	0.000	09:28

Average = 0.0774  
Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 42.2°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.69 V	PASSED
(0.95 V - 2.21 V)	
Cooler Voltage = 1.56 V	PASSED
(0.97 V - 2.27 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 517 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.0 in	

### PUMP INFO

Flow Rate = 4.712 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 = 0.103	2.81%	(0.00% - 4.00%)	PASSED
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LINEARITY CHECK

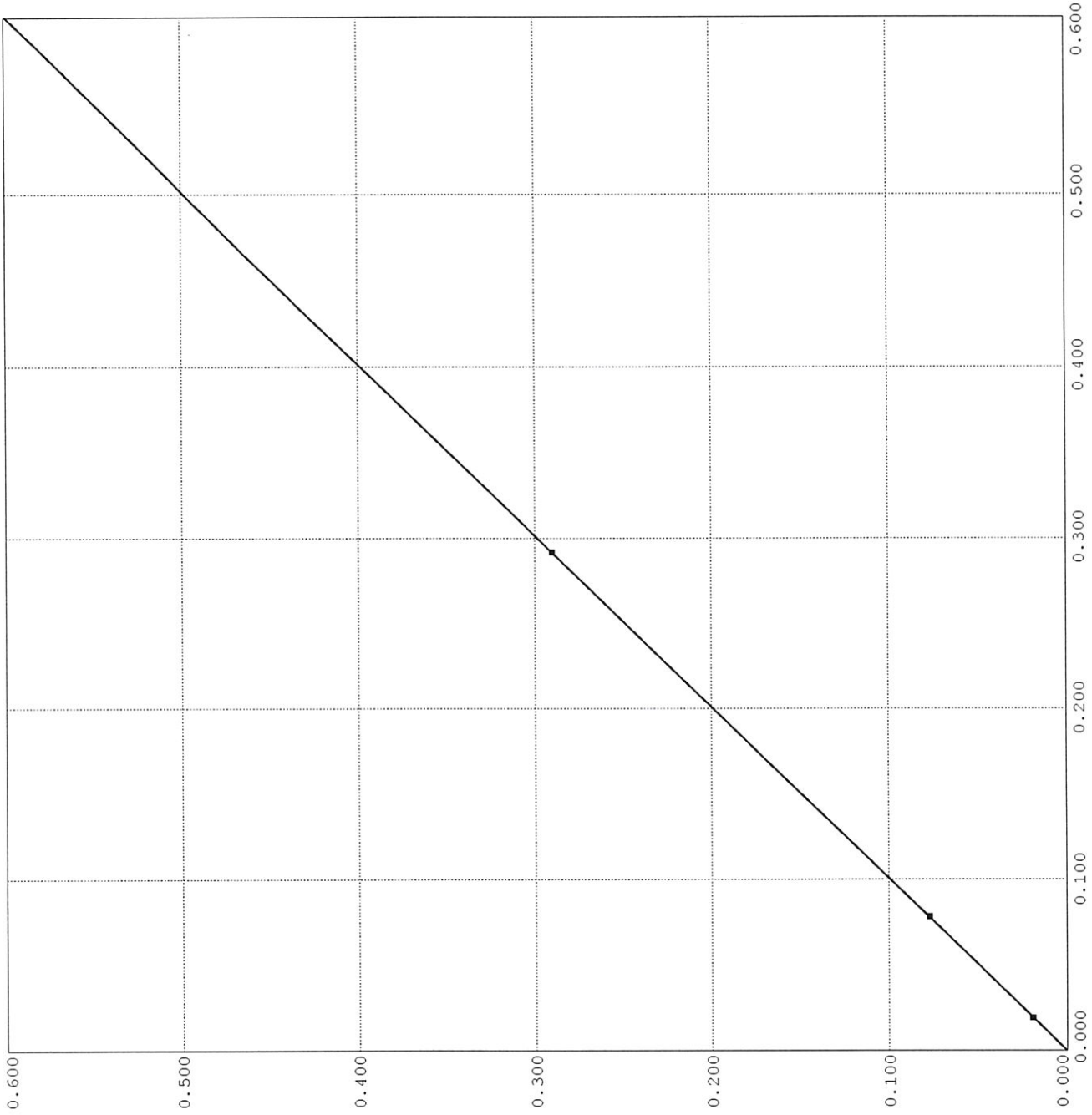
-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100356  
 -----

Date: 10/29/2024  
 Time: 09:32:53

SUPERVISOR NAME:  
 MEGAN CARLOCK  
 OPERATOR'S #: 10747

TARGET	AVERAGE	STD. DEV.
0.019	0.0198	0.0004
0.078	0.0780	0.0000
0.291	0.2910	0.0000

SLOPE = 0.997844  
 R<sup>2</sup> = 0.999994



MNC

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100356

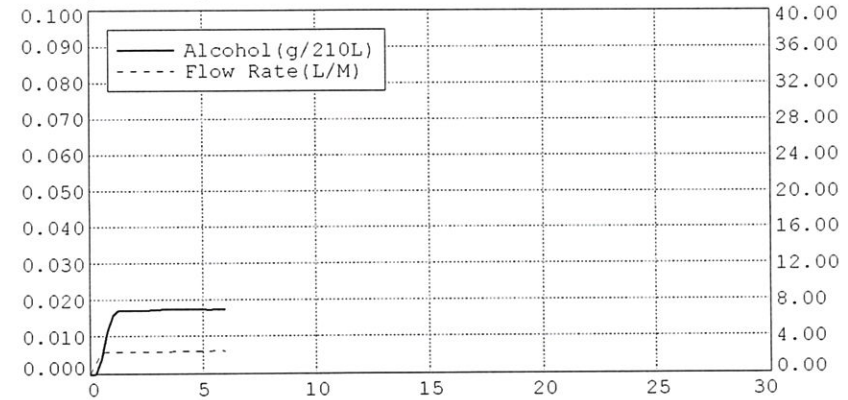
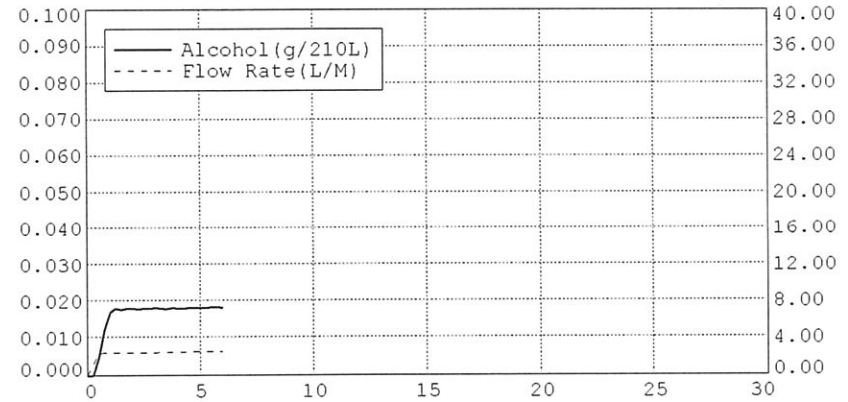
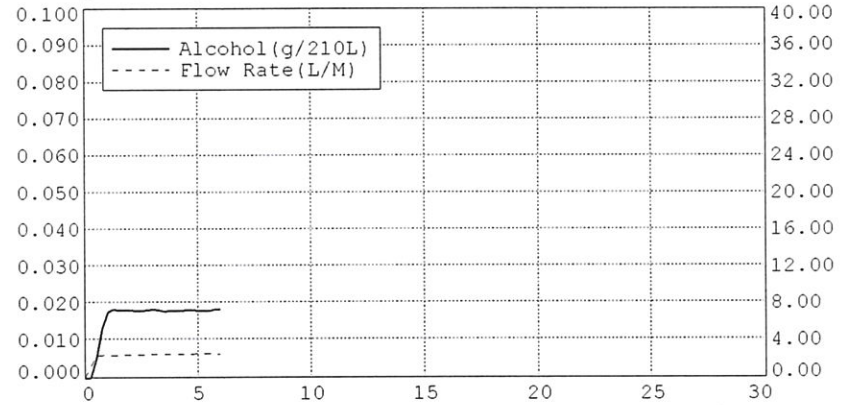
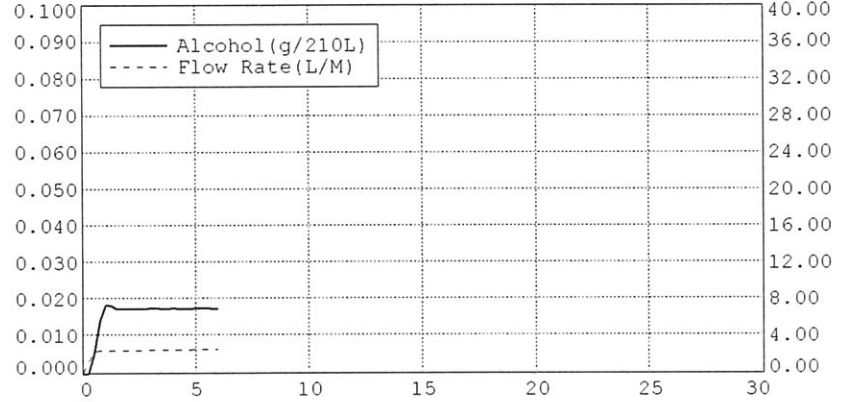
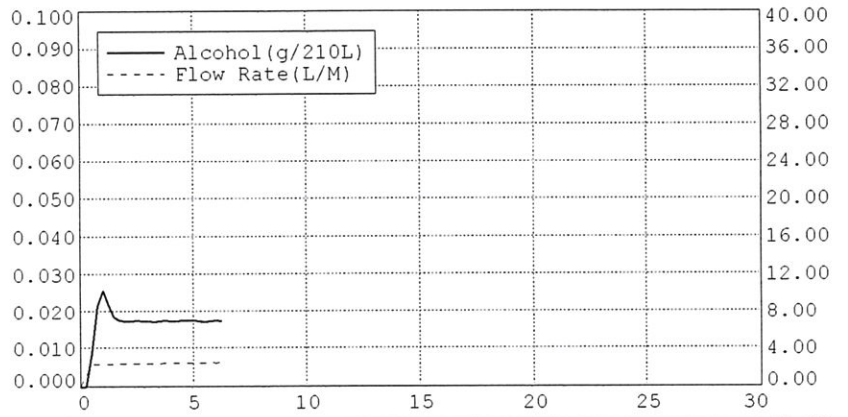
Date: 10/29/2024  
Time: 09:32:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.04: 0.019  
LOT #: AG408002  
EXPIRATION: 03/20/2026  
TANK PRESSURE: 752 psi

BLANK TEST	0.000	09:34
INTERNAL STANDARD	VERIFIED	09:34
EXTERNAL STANDARD	0.020	09:34
BLANK TEST	0.000	09:35
EXTERNAL STANDARD	0.020	09:35
BLANK TEST	0.000	09:36
EXTERNAL STANDARD	0.020	09:36
BLANK TEST	0.000	09:37
EXTERNAL STANDARD	0.020	09:37
BLANK TEST	0.000	09:38
EXTERNAL STANDARD	0.019	09:38
BLANK TEST	0.000	09:39

Average = 0.0198  
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

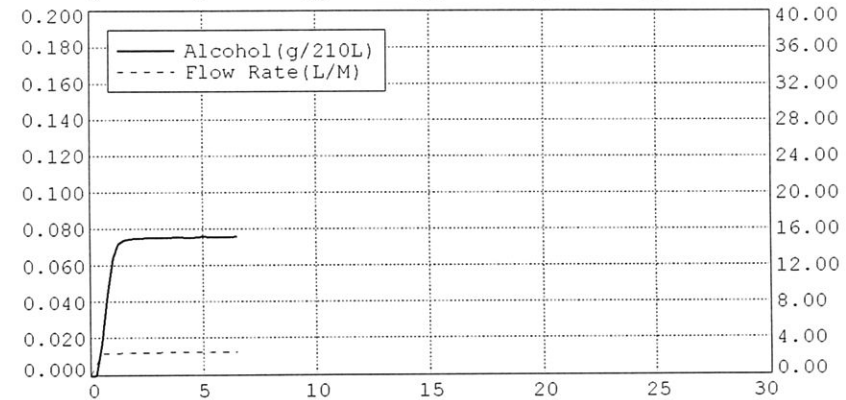
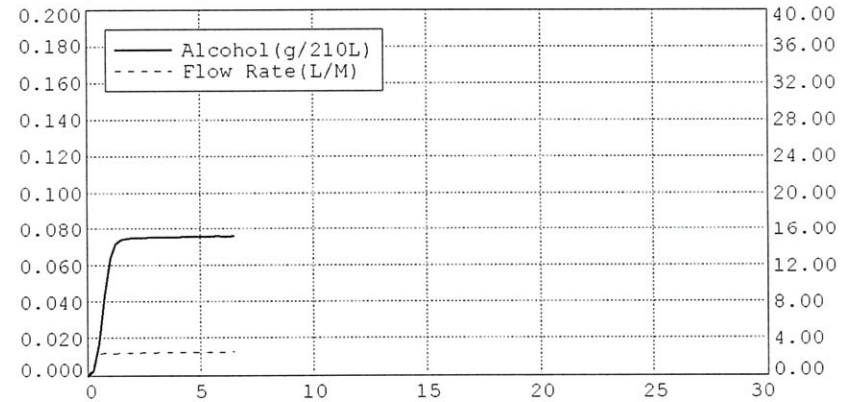
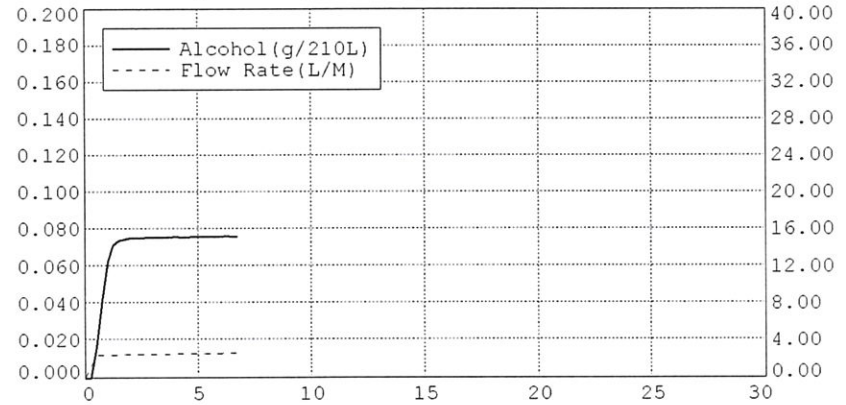
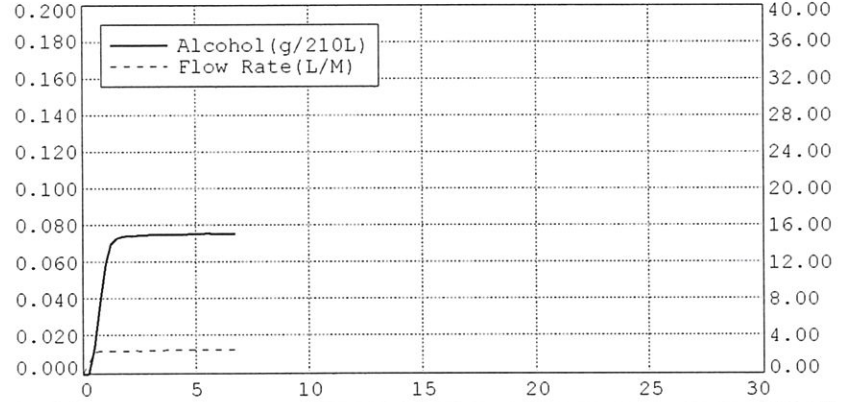
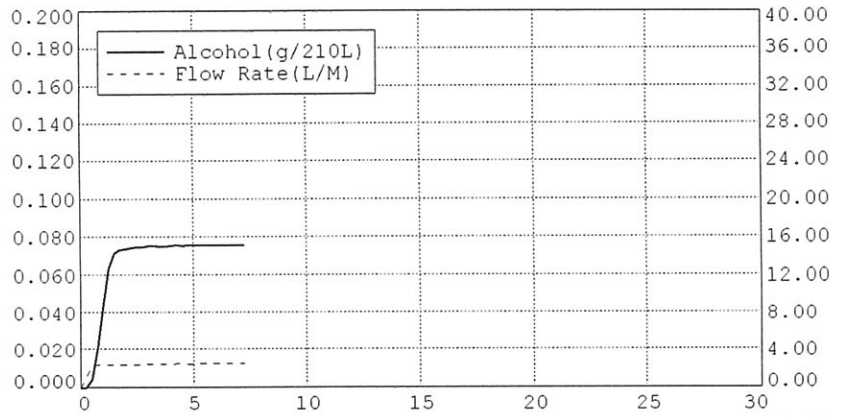
Alaska Department of Public Safety  
DATAMASTER dmt: 100356

Date: 10/29/2024  
Time: 09:40:41

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.06: 0.078  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 781 psi

BLANK TEST	0.000	09:42
INTERNAL STANDARD	VERIFIED	09:42
EXTERNAL STANDARD	0.078	09:42
BLANK TEST	0.000	09:43
EXTERNAL STANDARD	0.078	09:43
BLANK TEST	0.000	09:44
EXTERNAL STANDARD	0.078	09:44
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.078	09:45
BLANK TEST	0.000	09:46
EXTERNAL STANDARD	0.078	09:47
BLANK TEST	0.000	09:47

Average = 0.0780  
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100356

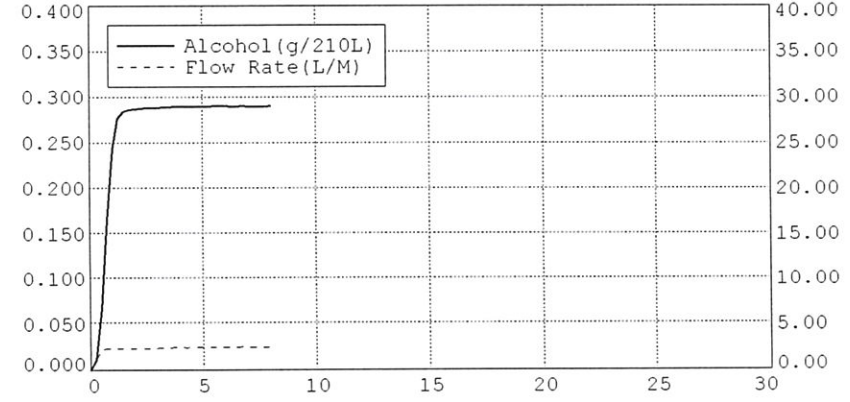
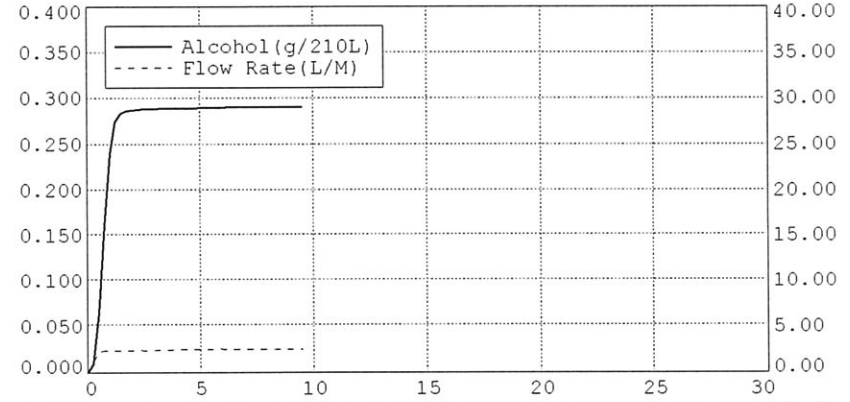
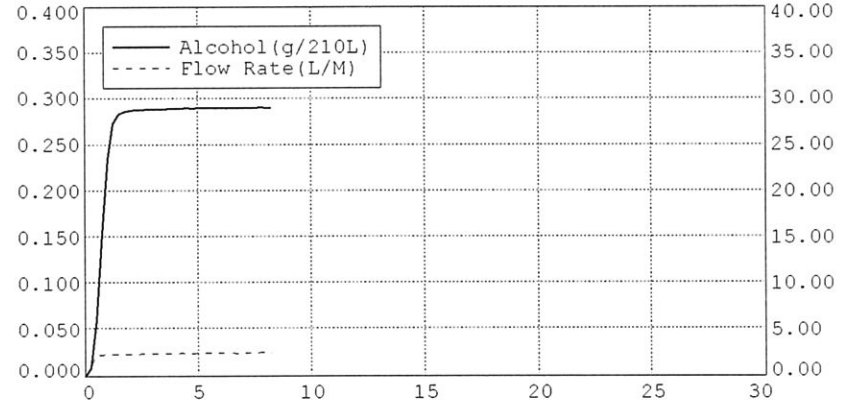
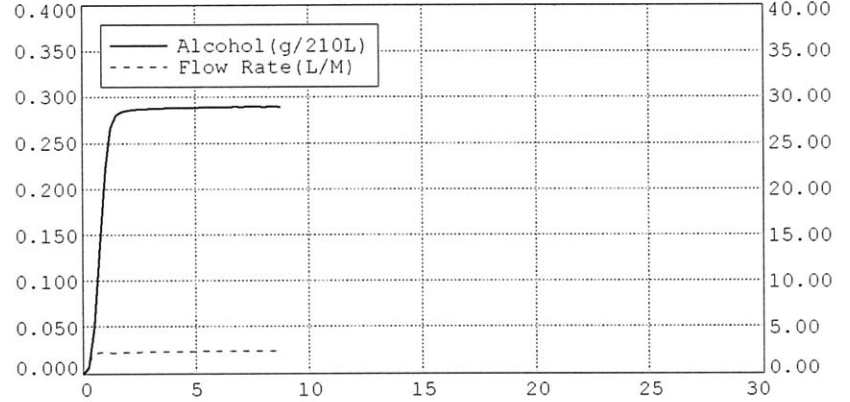
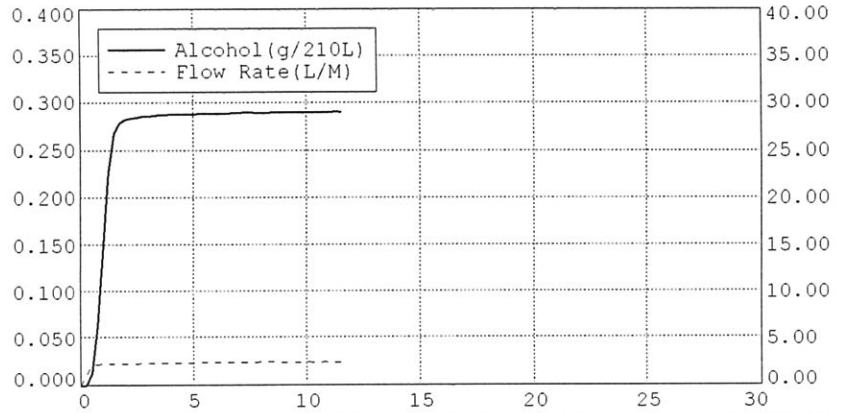
Date: 10/29/2024  
Time: 09:49:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 29.07: 0.291  
LOT #: AG427706  
EXPIRATION: 10/03/2026  
TANK PRESSURE: 376 psi

BLANK TEST	0.000	09:50
INTERNAL STANDARD	VERIFIED	09:50
EXTERNAL STANDARD	0.291	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.291	09:51
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.291	09:53
BLANK TEST	0.000	09:53
EXTERNAL STANDARD	0.291	09:54
BLANK TEST	0.000	09:55
EXTERNAL STANDARD	0.291	09:55
BLANK TEST	0.000	09:56

Average = 0.2910  
Std Dev = 0.0000



SUBJECT TEST

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100356  
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Date: 10/29/2024  
Time: 10:00:24

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 29.06: 0.078  
LOT #: AG335202  
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK PASSED 10:01  
BLANK TEST 0.000 10:01  
INTERNAL STANDARD VERIFIED 10:01  
EXTERNAL STANDARD 0.078 10:01  
BLANK TEST 0.000 10:02  
SUBJECT SAMPLE (Vol=2.22L) 0.000 10:03  
BLANK TEST 0.000 10:04  
EXTERNAL STANDARD 0.078 10:04  
BLANK TEST 0.000 10:05

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