

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100699

Analyst/Technician(s): Megan Carlock

Start Date: 10/28/24

Date Instrument Received: 10/7/24

Reason for instrument evaluation

Removed from service for multiple internal standard errors on subject tests.

Visual Inspection:

- Clean
- Cermetex Box (modem) is secure
- Double Check Valve secured to wall
- O-ring inspection and ensure 2 replacement O-rings in bag
- Attach VOC
- VOC Internal Standard $\leq 3.00\%$
- Replace missing screws
- Ensure modem cable present
- All tubing and connections secure
- 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): 29.48 Temperature (C): 21.7 Relative Humidity (%) 16

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

Notes: Changed O-ring First VOC ran had Interference Detected status message.

Attach Non-Drinking Subject Test

Conclusion:

- Ready for Adjustment
- Needs Repair
- Ready for Calibration

Lab Work End Date: 10/28/24

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100699

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/28/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.39: 0.079
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 130 psi

BLANK TEST	0.000	11:38
INTERNAL STANDARD	VERIFIED	11:39
EXTERNAL STANDARD	INTERFERENCE	11:39

Interference Detected

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 40.6°C	PASSED

PUMP INFO

Flow Rate = 4.121 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

PASSED

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100699

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/28/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.38: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 828 psi

BLANK TEST	0.000	11:45
INTERNAL STANDARD	VERIFIED	11:45
Xq = 0.077 (0.34%)		
EXTERNAL STANDARD	0.076	11:45
X[1] = 0.0762 (-0.0014) (0.0022)		
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.077	11:46
X[1] = 0.0770 (-0.0015) (0.0014)		
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.077	11:47
X[1] = 0.0770 (-0.0016) (0.0021)		
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.077	11:48
X[1] = 0.0765 (-0.0020) (0.0017)		
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.077	11:49
X[1] = 0.0774 (-0.0012) (0.0017)		
BLANK TEST	0.000	11:50

Average = 0.0768
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 40.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.56 V	PASSED
(0.94 V - 2.18 V)	
Cooler Voltage = 1.51 V	PASSED
(0.94 V - 2.18 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 518 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

PUMP INFO

Flow Rate = 4.172 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	PASSED
Xq = 0.077 0.56% (0.00% - 4.00%)	

LINEARITY CHECK

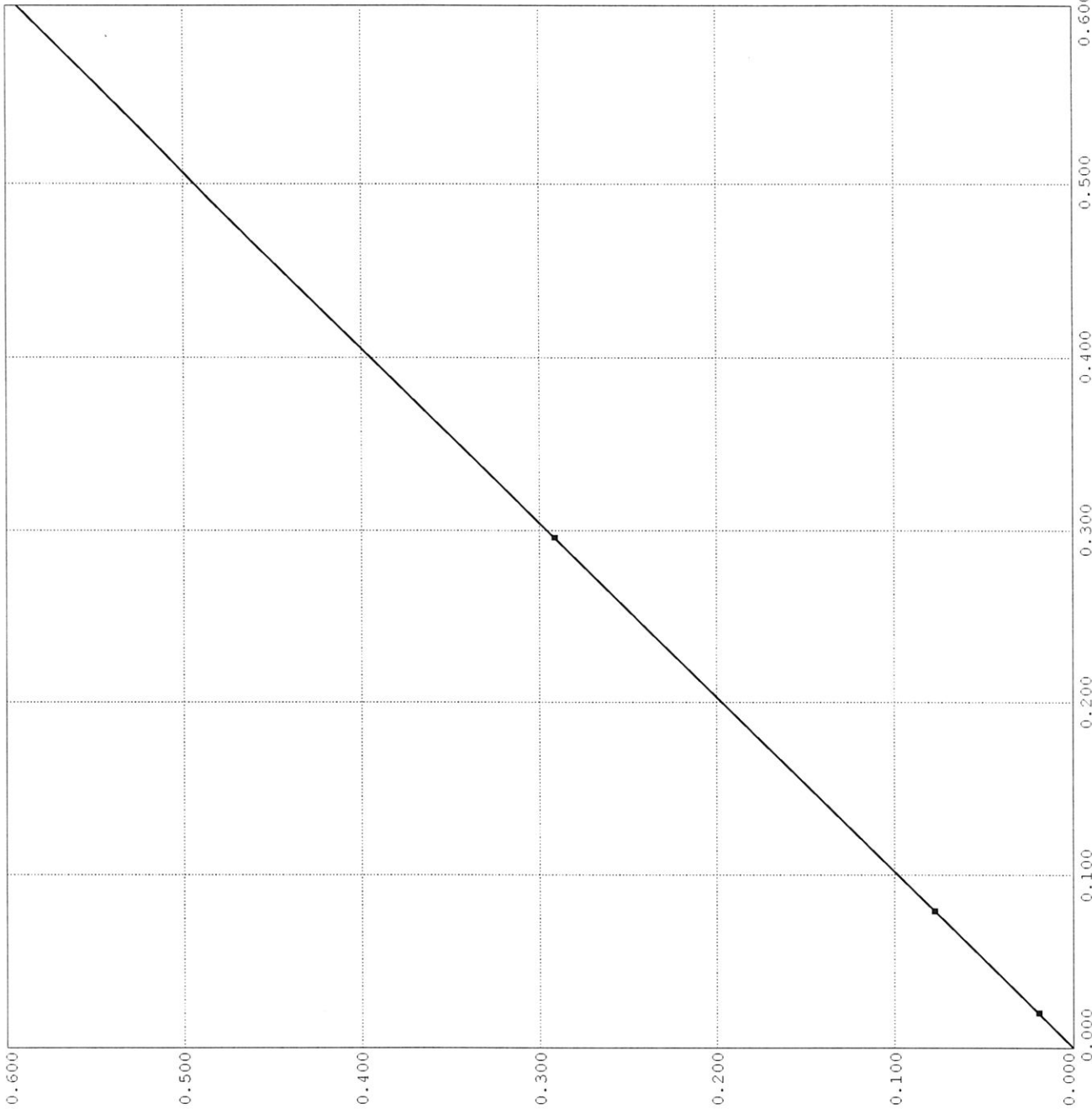
Alaska Department of Public Safety
DATAMASTER dmt: 100699

Date: 10/28/2024
Time: 11:55:56

SUPERVISOR NAME:
MEGAN CARLOCK
OPERATOR'S #: 10747

TARGET	AVERAGE	STD. DEV.
0.020	0.0198	0.0011
0.079	0.0784	0.0005
0.295	0.2920	0.0014

SLOPE = 0.989568
R² = 0.999999



MUC

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100699

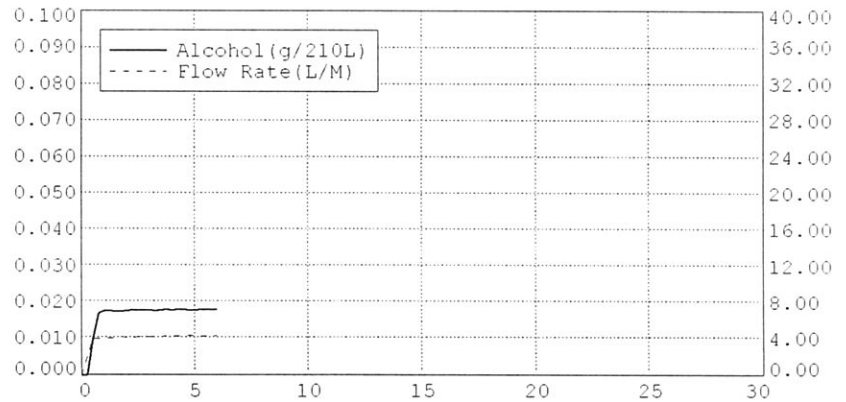
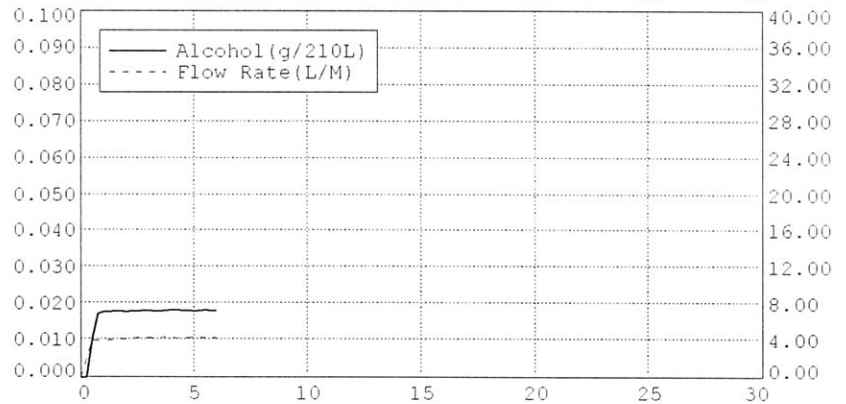
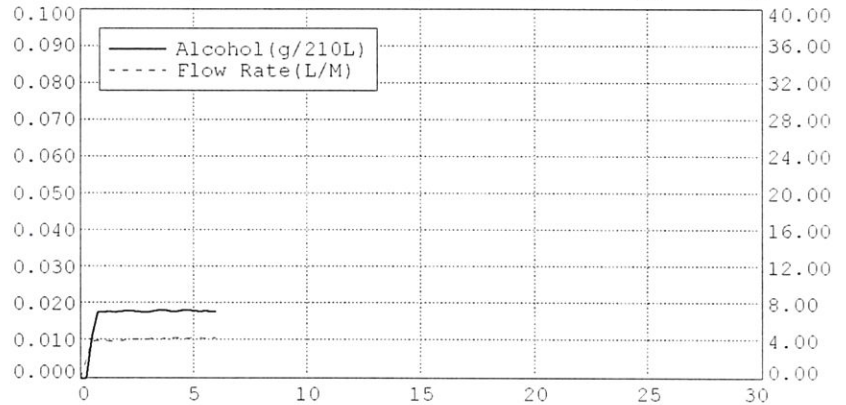
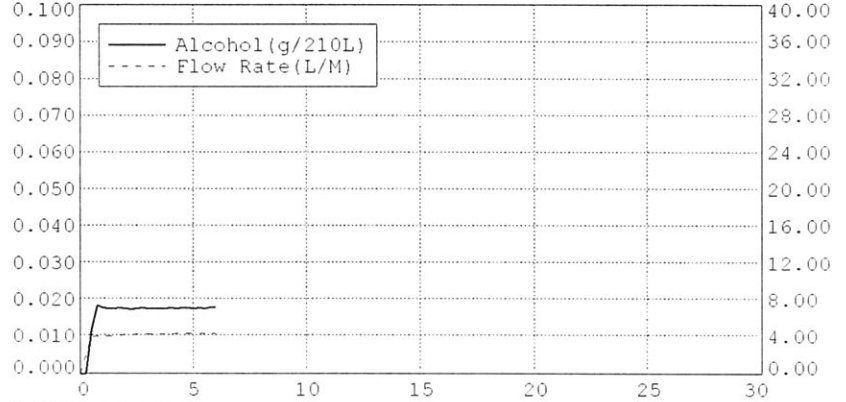
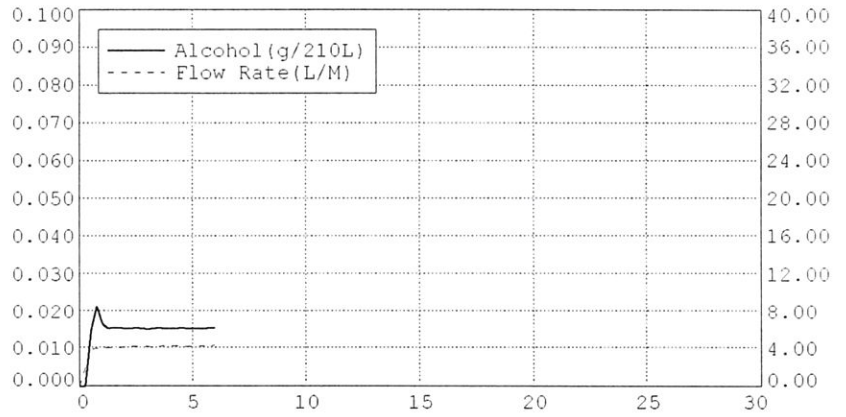
Date: 10/28/2024
Time: 11:55:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.37: 0.020
LOT #: AG408002
EXPIRATION: 03/20/2026
TANK PRESSURE: 820 psi

BLANK TEST	0.000	11:57
INTERNAL STANDARD	VERIFIED	11:57
EXTERNAL STANDARD	0.018	11:57
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.021	11:58
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.020	11:59
BLANK TEST	0.000	12:00
EXTERNAL STANDARD	0.020	12:01
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.020	12:02
BLANK TEST	0.000	12:03

Average = 0.0198
Std Dev = 0.0011



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100699

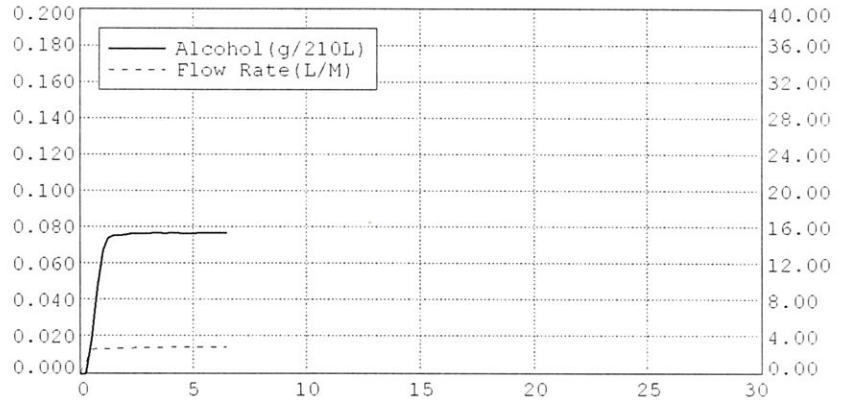
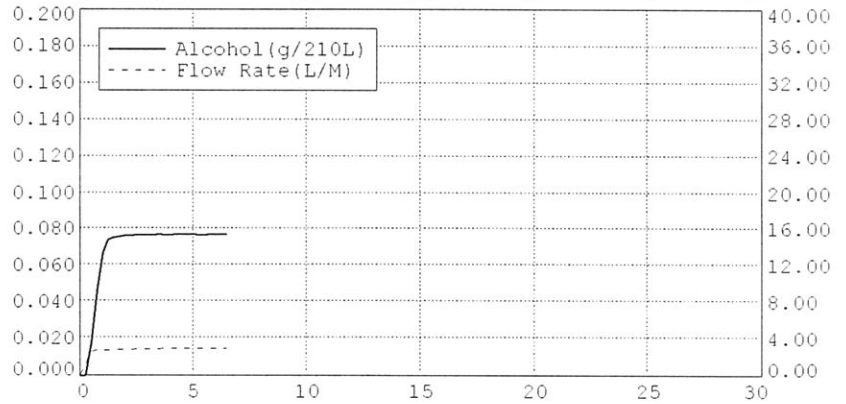
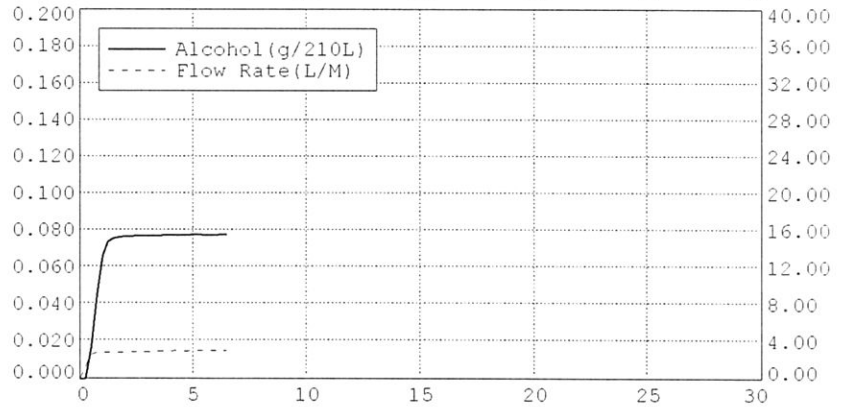
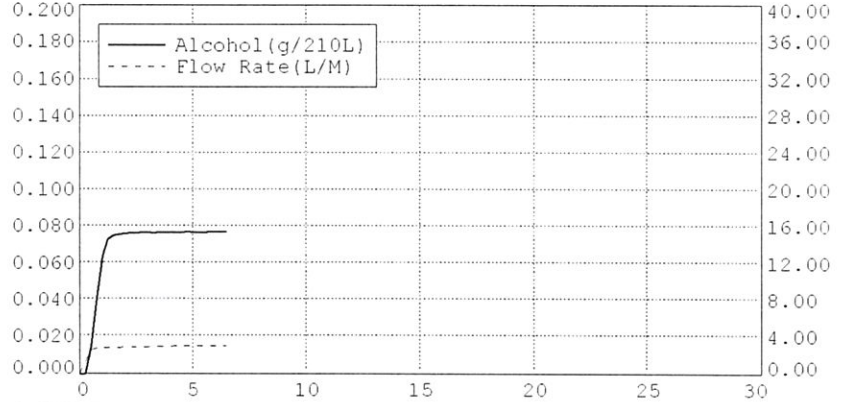
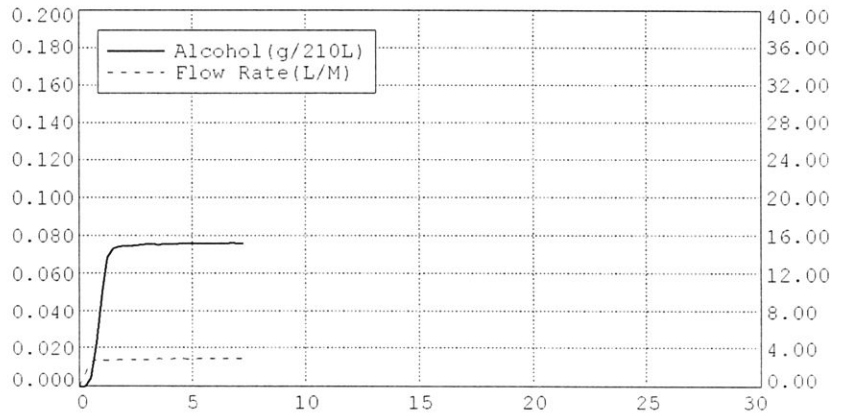
Date: 10/28/2024
Time: 12:04:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.38: 0.079
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 126 psi

BLANK TEST	0.000	12:05
INTERNAL STANDARD	VERIFIED	12:06
EXTERNAL STANDARD	0.079	12:06
BLANK TEST	0.000	12:07
EXTERNAL STANDARD	0.078	12:07
BLANK TEST	0.000	12:08
EXTERNAL STANDARD	0.079	12:08
BLANK TEST	0.000	12:09
EXTERNAL STANDARD	0.078	12:09
BLANK TEST	0.000	12:10
EXTERNAL STANDARD	0.078	12:10
BLANK TEST	0.000	12:11

Average = 0.0784
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100699

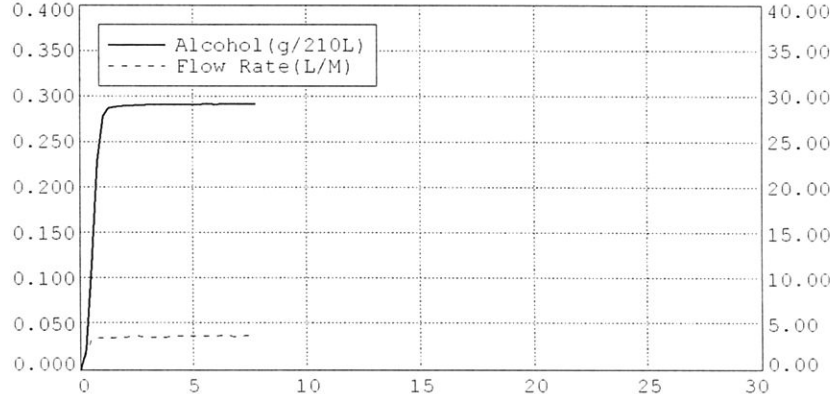
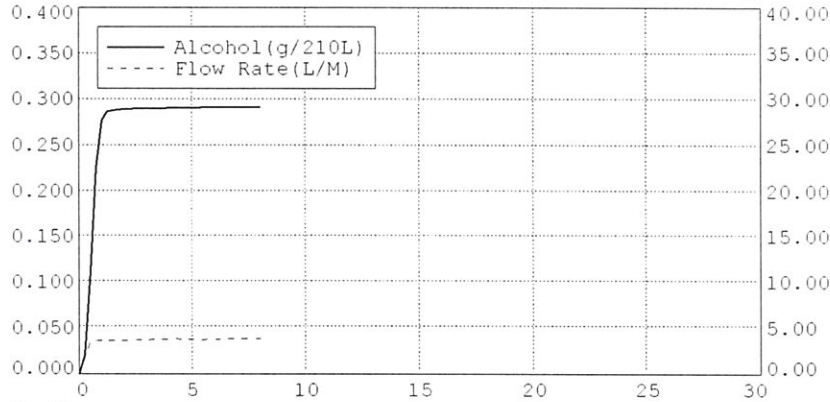
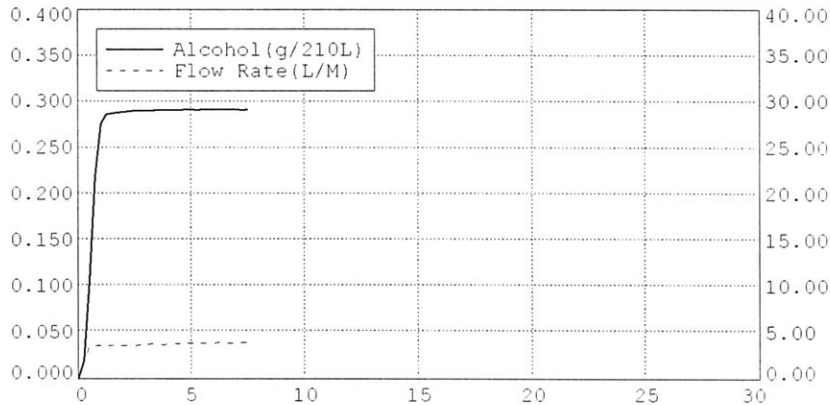
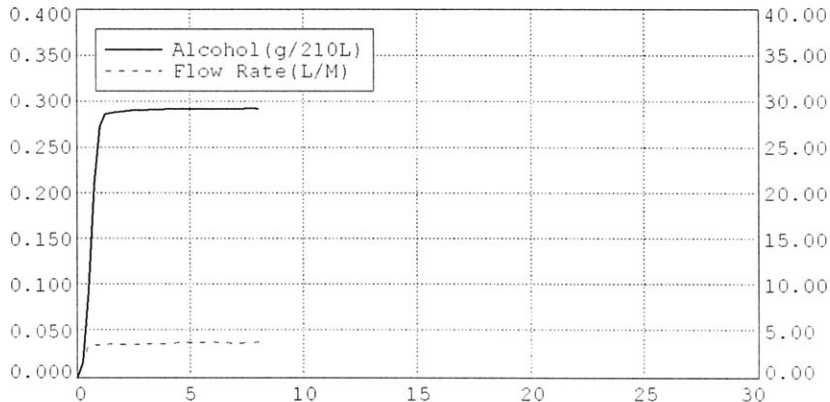
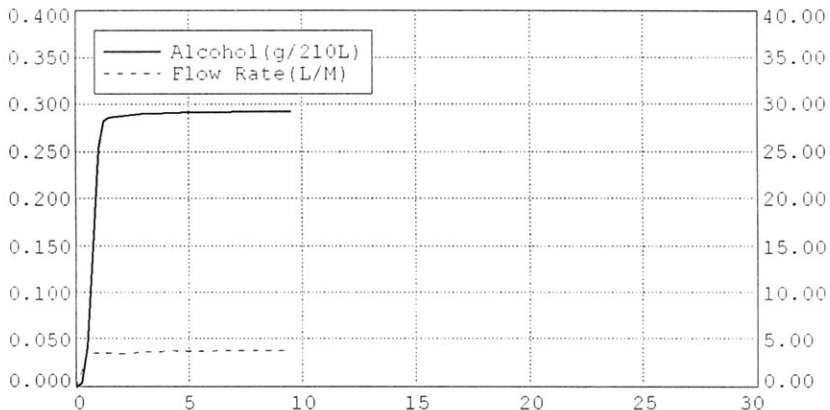
Date: 10/28/2024
 Time: 12:13:01

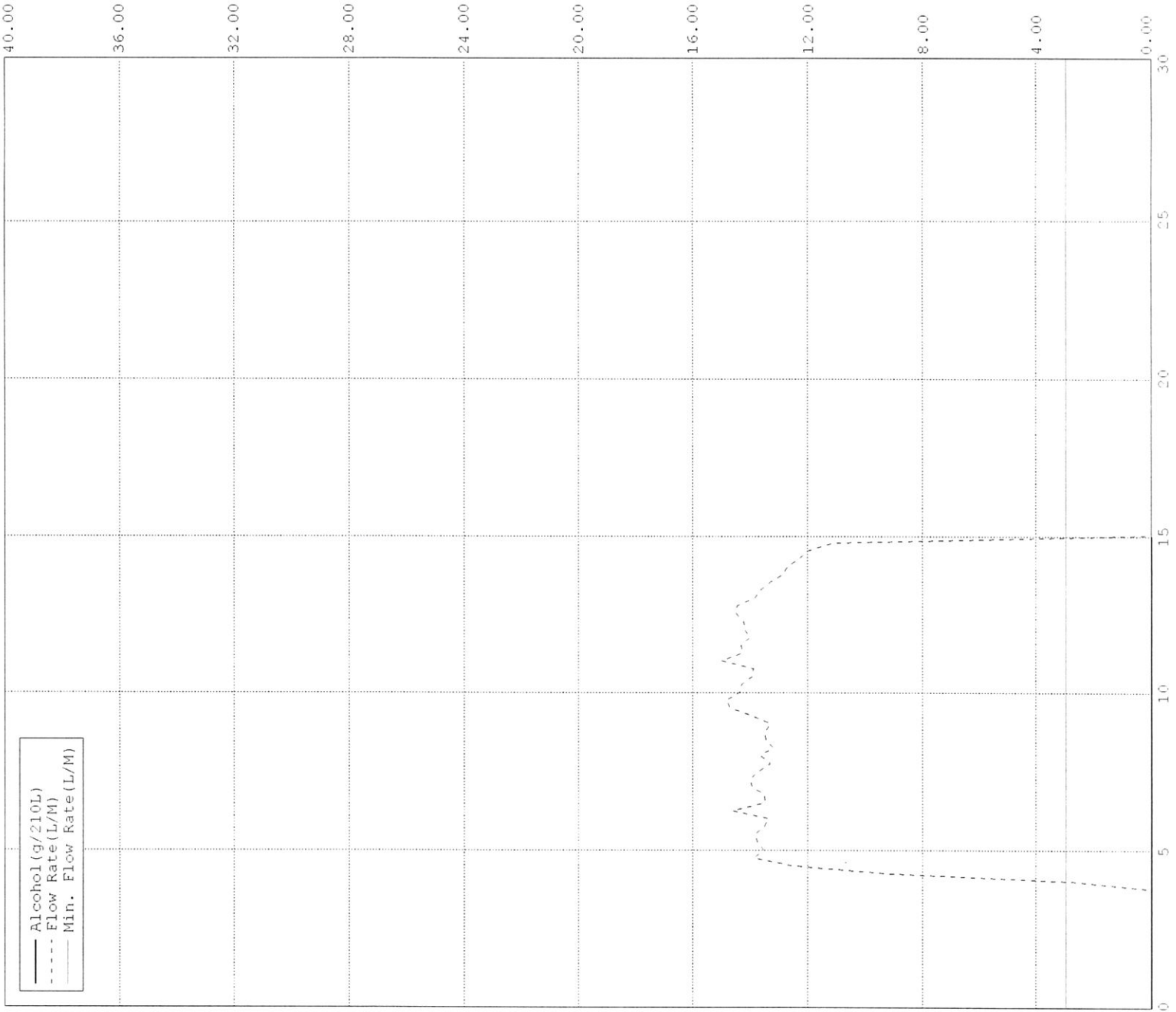
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.38: 0.295
 LOT #: AG427706
 EXPIRATION: 10/03/2026
 TANK PRESSURE: 490 psi

BLANK TEST	0.000	12:14
INTERNAL STANDARD	VERIFIED	12:14
EXTERNAL STANDARD	0.294	12:14
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.293	12:15
BLANK TEST	0.000	12:16
EXTERNAL STANDARD	0.291	12:16
BLANK TEST	0.000	12:17
EXTERNAL STANDARD	0.291	12:17
BLANK TEST	0.000	12:18
EXTERNAL STANDARD	0.291	12:19
BLANK TEST	0.000	12:20

Average = 0.2920
 Std Dev = 0.0014





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100699

 Date: 10/28/2024
 Time: 12:37:44

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 29.39: 0.079
 LOT #: AG335202
 EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	12:38
BLANK TEST	0.000	12:38
INTERNAL STANDARD	VERIFIED	12:38
EXTERNAL STANDARD	0.076	12:39
BLANK TEST	0.000	12:40
SUBJECT SAMPLE (Vol=2.44L)	0.000	12:40
BLANK TEST	0.000	12:41
EXTERNAL STANDARD	0.078	12:42
BLANK TEST	0.000	12:43