

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100343

Analyst/Technician(s): C. O Bryant

Start Date: 5/6/24

Date Instrument Received: 5/6/24

Reason for instrument evaluation

Preventative Maintenance

### 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): 29.29 Temperature (C): 21.5 Relative Humidity (%) 29

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

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Attach Non-Drinking Subject Test

### Conclusion:

- Ready for Adjustment
- Needs Repair
- Ready for Calibration

Lab Work End Date: 5/7/24

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100343

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/07/2024

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.45: 0.079  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 1201 psi

BLANK TEST	0.000	11:08
INTERNAL STANDARD	VERIFIED	11:08
Xq = 0.091 (2.34%)		
EXTERNAL STANDARD	0.078	11:08
X[1] = 0.0784 (-0.0018) (0.0014)		
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.079	11:10
X[1] = 0.0786 (-0.0016) (0.0003)		
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.079	11:11
X[1] = 0.0788 (-0.0019) (0.0002)		
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.079	11:12
X[1] = 0.0790 (-0.0018) (0.0003)		
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.079	11:13
X[1] = 0.0787 (-0.0018) (0.0004)		
BLANK TEST	0.000	11:14

Average = 0.0788  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS

DMT: 3.02  
PIC: 3.06  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.0°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.73 V	PASSED
(1.04 V - 2.44 V)	
Cooler Voltage = 1.75 V	PASSED
(1.05 V - 2.45 V)	
Bias Voltage = 81 V	PASSED
(49 V - 113 V)	
Chopper Freq = 530 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

### PUMP INFO

Flow Rate = 4.128 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.001 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 = 0.091 (2.44%) (0.00% - 4.00%)	PASSED
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LINEARITY CHECK

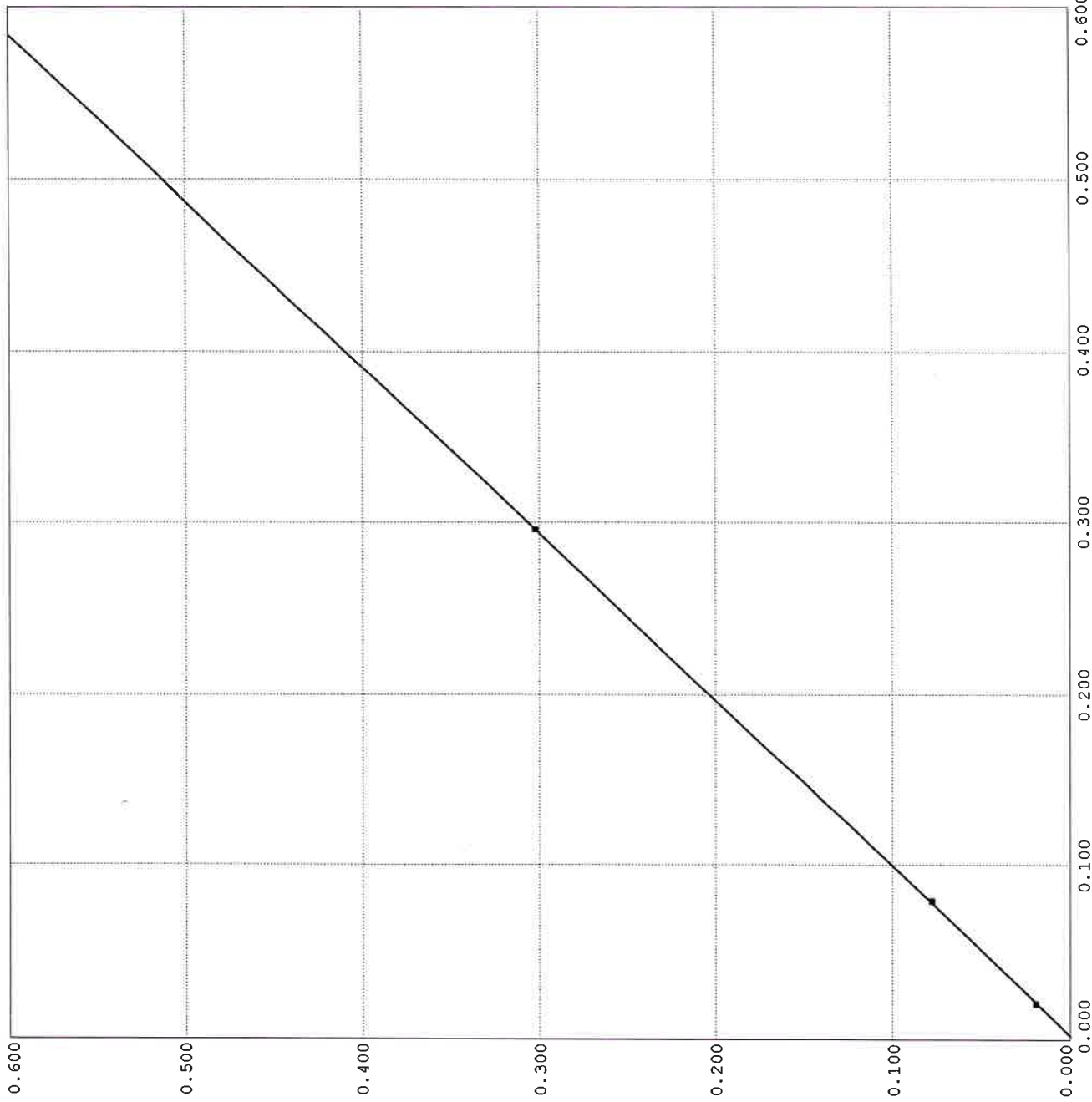
Alaska Department of Public Safety  
DATAMASTER dmt: 100343

Date: 05/07/2024  
Time: 12:31:12

SUPERVISOR NAME:  
COLLEEN S O'BRYAN  
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.079	0.0788	0.0004
0.295	0.3030	0.0007

SLOPE = 1.031483  
R<sup>2</sup> = 0.999950



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LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100343

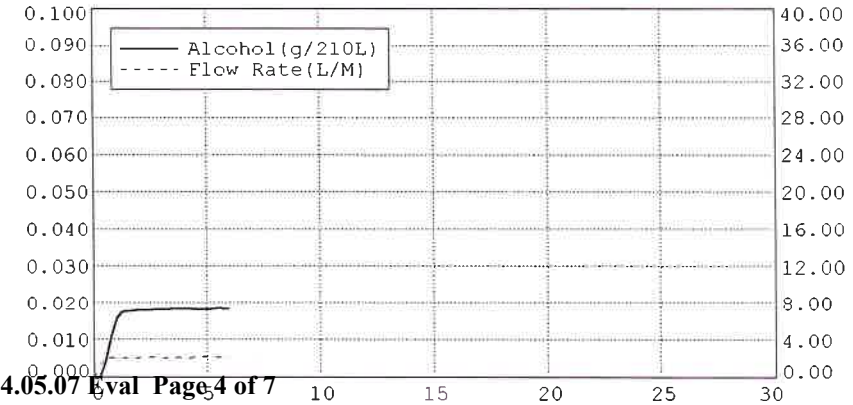
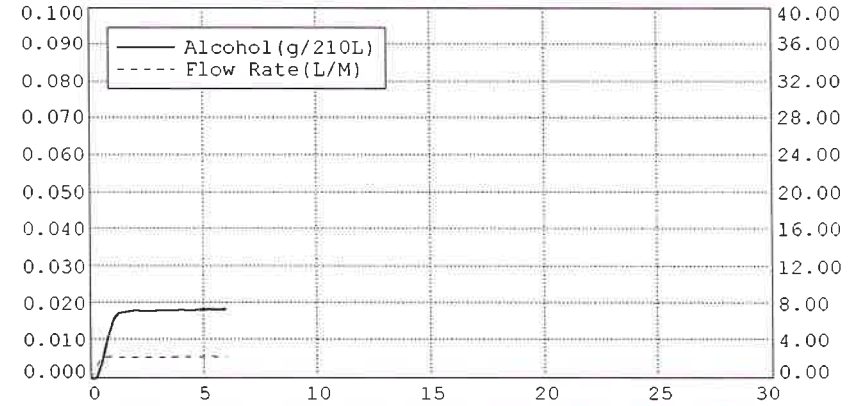
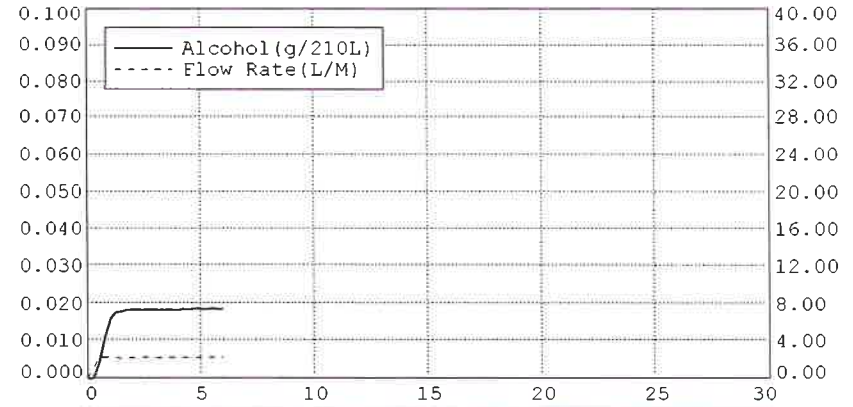
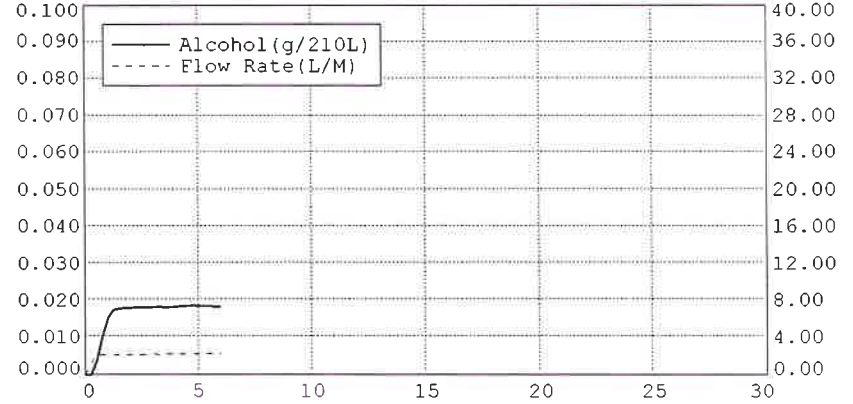
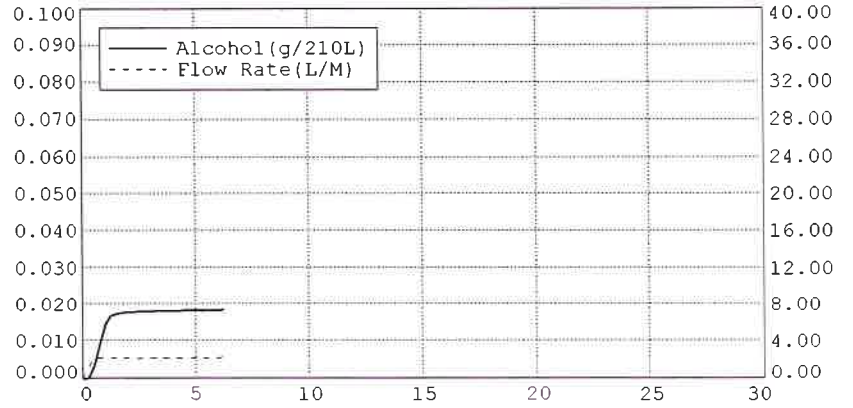
Date: 05/07/2024  
Time: 12:31:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.45: 0.020  
LOT #: AG217902  
EXPIRATION: 06/28/2024  
TANK PRESSURE: 134 psi

BLANK TEST	0.000	12:39
INTERNAL STANDARD	VERIFIED	12:39
EXTERNAL STANDARD	0.020	12:39
BLANK TEST	0.000	12:40
EXTERNAL STANDARD	0.020	12:40
BLANK TEST	0.000	12:41
EXTERNAL STANDARD	0.020	12:41
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.020	12:43
BLANK TEST	0.000	12:43
EXTERNAL STANDARD	0.020	12:44
BLANK TEST	0.000	12:45

Average = 0.0200  
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100343

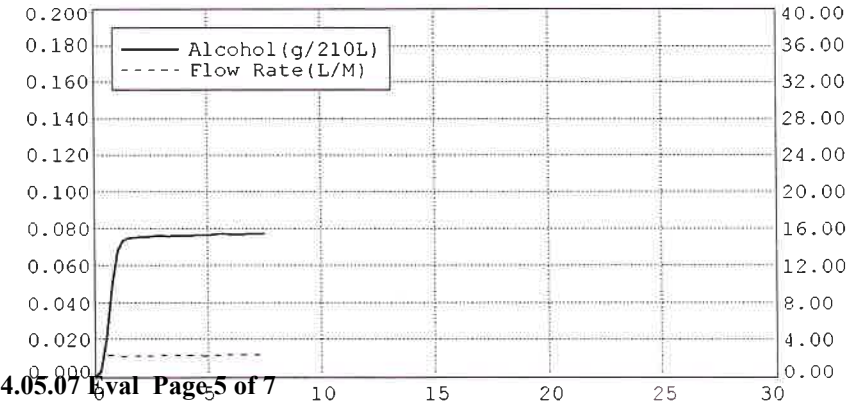
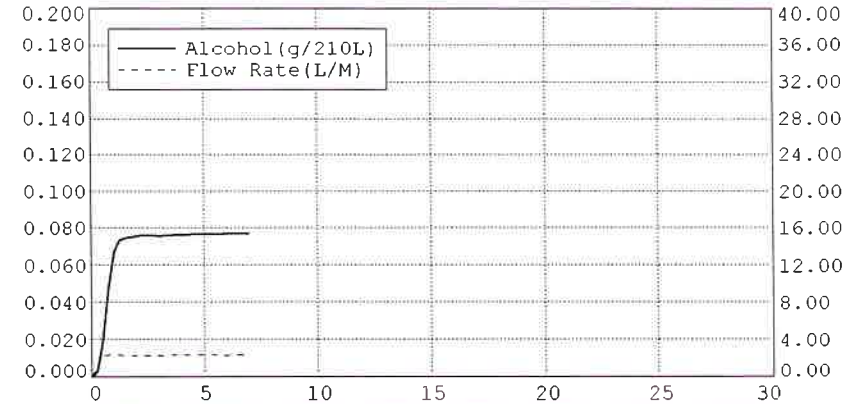
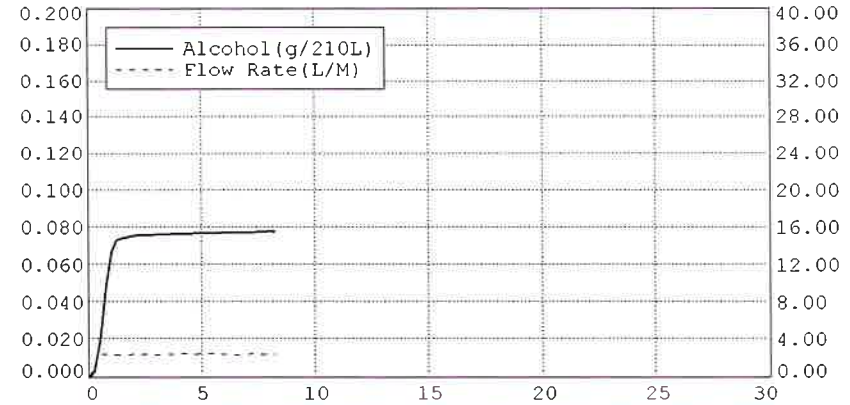
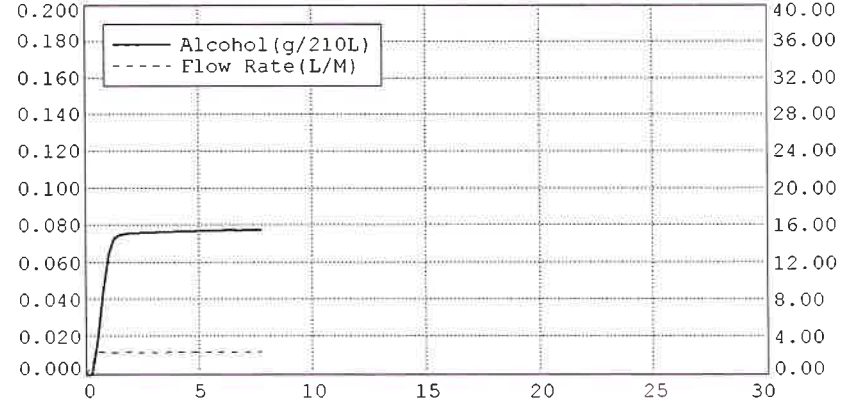
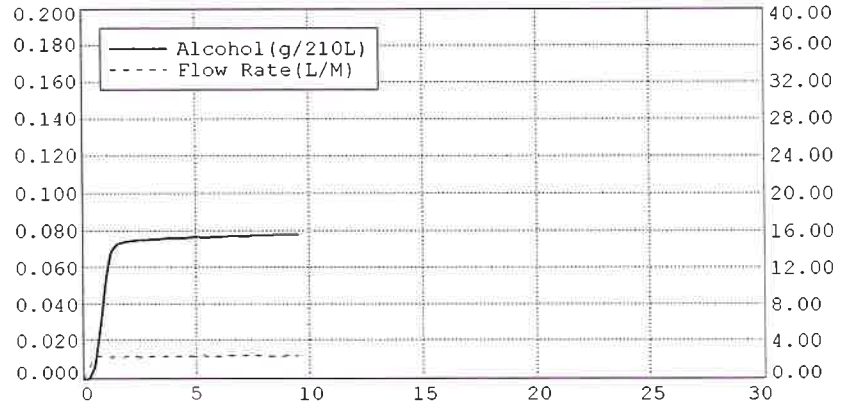
Date: 05/07/2024  
Time: 12:48:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.44: 0.079  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 1181 psi

BLANK TEST	0.000	12:49
INTERNAL STANDARD	VERIFIED	12:49
EXTERNAL STANDARD	0.079	12:49
BLANK TEST	0.000	12:50
EXTERNAL STANDARD	0.079	12:51
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.079	12:52
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.078	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.079	12:54
BLANK TEST	0.000	12:55

Average = 0.0788  
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100343

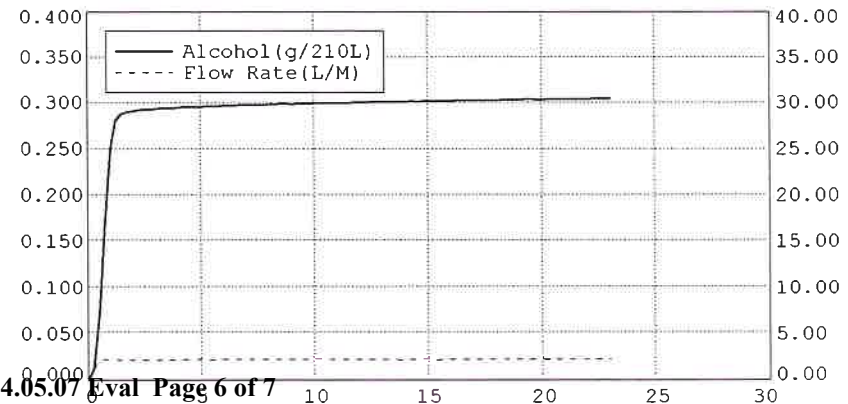
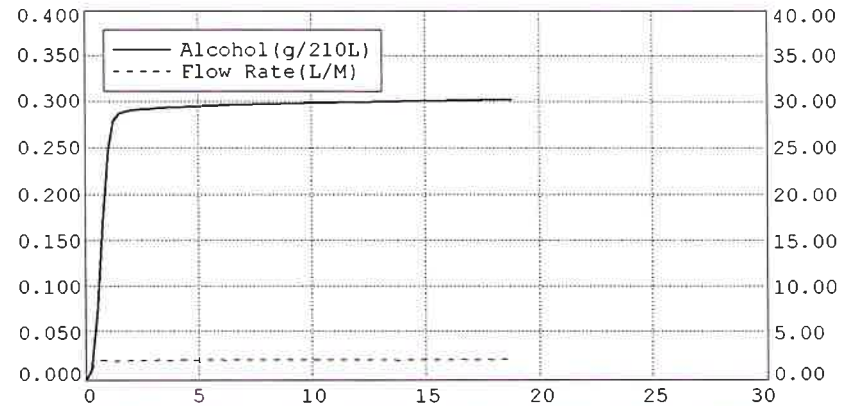
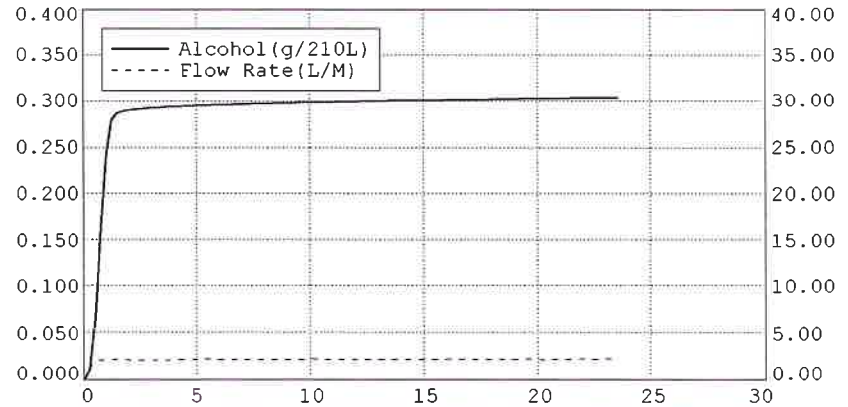
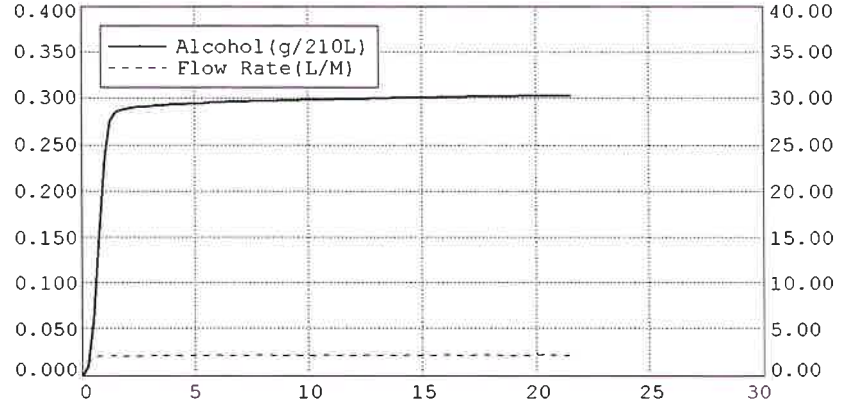
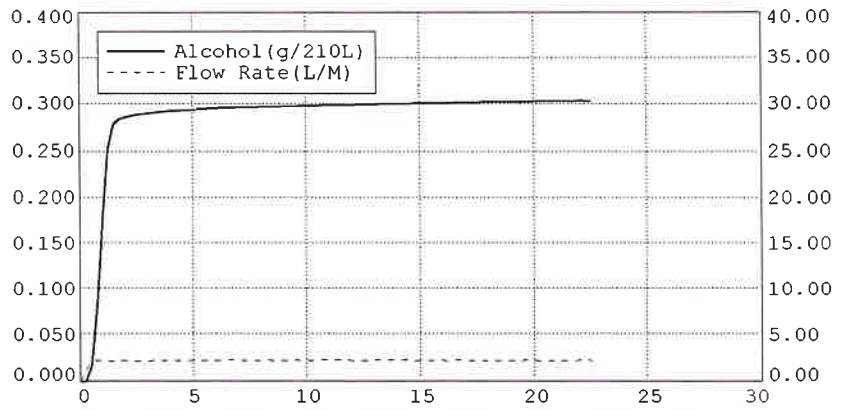
Date: 05/07/2024  
Time: 12:59:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 29.44: 0.295  
LOT #: AG327804  
EXPIRATION: 10/05/2025  
TANK PRESSURE: 364 psi

BLANK TEST	0.000	13:00
INTERNAL STANDARD	VERIFIED	13:00
EXTERNAL STANDARD	0.303	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.303	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.303	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.302	13:05
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.304	13:06
BLANK TEST	0.000	13:08

Average = 0.3030  
Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100343

Date: 05/07/2024

Time: 13:14:24

SUBJECT NAME:

TEST TEST

LICENSE #: NONDRINKING

OPERATOR NAME:

COLLEEN S OBRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 24-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.44: 0.079

LOT #: AG335202

EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	13:15
BLANK TEST	0.000	13:15
INTERNAL STANDARD	VERIFIED	13:15
EXTERNAL STANDARD	0.080	13:15
BLANK TEST	0.000	13:16
SUBJECT SAMPLE (Vol=1.91L)	0.000	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.080	13:18
BLANK TEST	0.000	13:19

