

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100400

Analyst/Technician(s): Carlisle Glaister

Start Date: 2/22/24

Date Instrument Received: 2/21/24

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): 29.49 Temperature (C): 22.1 Relative Humidity (%) 17

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

Notes: Replaced o-ring.

Attach Non-Drinking Subject Test

### Conclusion:

- Ready for Adjustment
- Needs Repair
- Ready for Calibration

Lab Work End Date: 2/22/24

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 #: 100400

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/22/2024

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.23: 0.078  
LOT #: AG310901  
EXPIRATION: 04/19/2025  
TANK PRESSURE: 274 psi

BLANK TEST	0.000	10:10
INTERNAL STANDARD	VERIFIED	10:10
Xq = 0.107 (0.66%)		
EXTERNAL STANDARD	0.076	10:11
X[1] = 0.0756 (-0.0013) (0.0032)		
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.075	10:12
X[1] = 0.0752 (-0.0010) (0.0028)		
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.076	10:13
X[1] = 0.0760 (-0.0009) (0.0036)		
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.076	10:14
X[1] = 0.0758 (0.0000) (0.0034)		
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.076	10:15
X[1] = 0.0755 (-0.0011) (0.0026)		
BLANK TEST	0.000	10:16

Average = 0.0758  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.69 V	PASSED
(1.00 V - 2.32 V)	
Cooler Voltage = 1.67 V	PASSED
(1.00 V - 2.34 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 521 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

### PUMP INFO

Flow Rate = 4.881 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 = 0.107 0.66% (0.00% - 4.00%)	PASSED
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LINEARITY CHECK

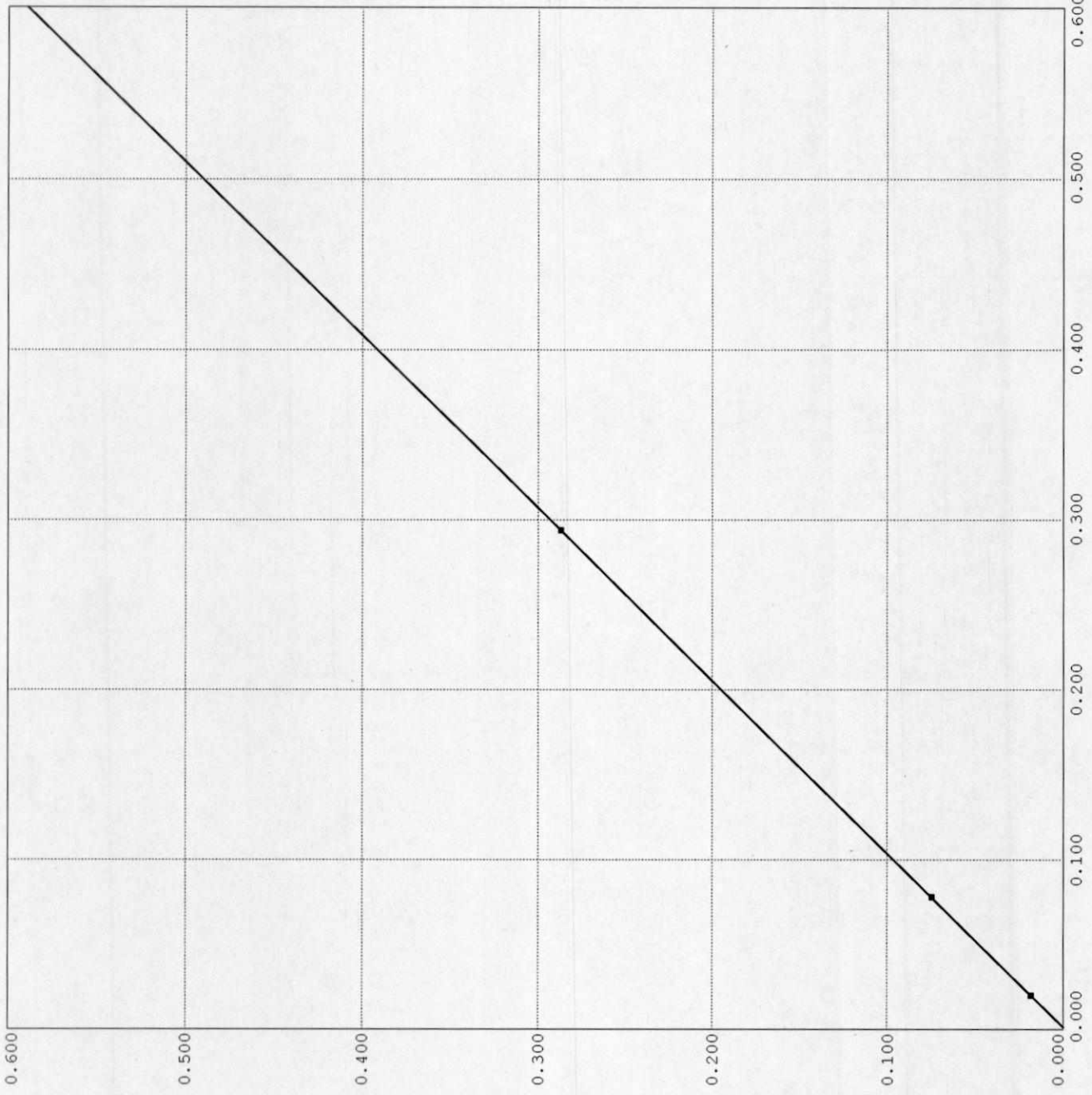
-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100400  
 -----

Date: 02/22/2024  
 Time: 10:36:19

SUPERVISOR NAME:  
 CARLIE GLAISTER  
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.020	0.0190	0.0000
0.078	0.0756	0.0005
0.293	0.2876	0.0005

SLOPE = 0.984471  
 R<sup>2</sup> = 0.999997



CKG

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100400

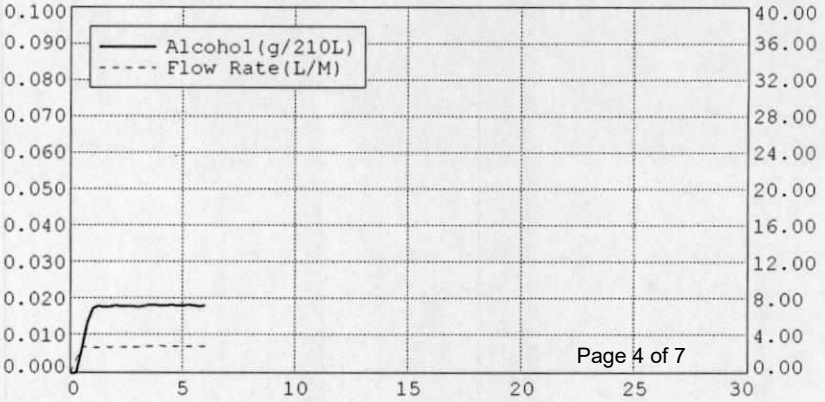
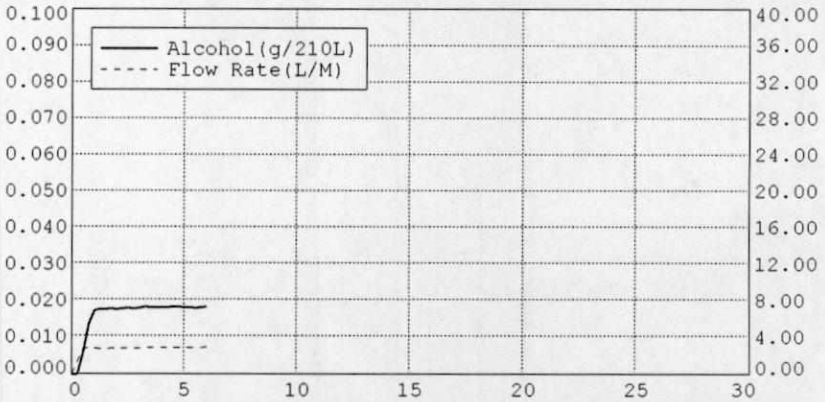
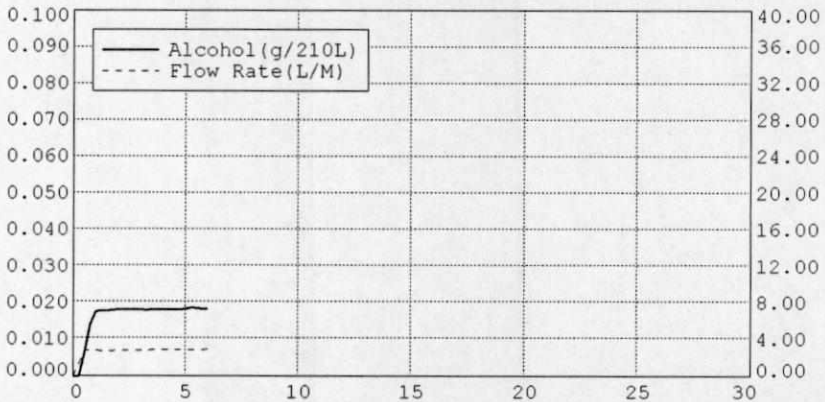
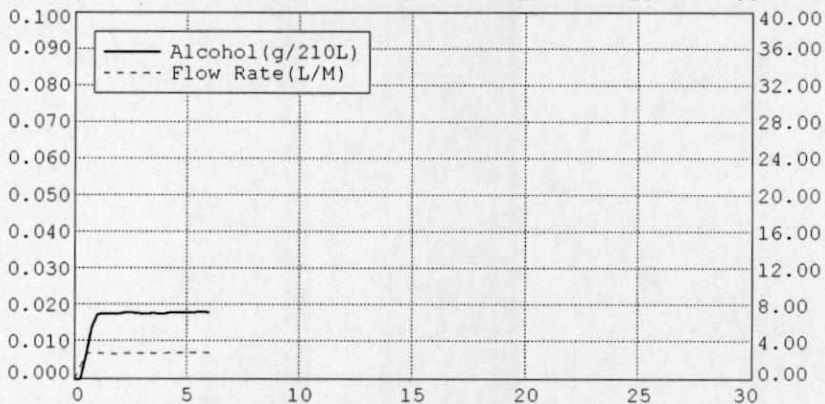
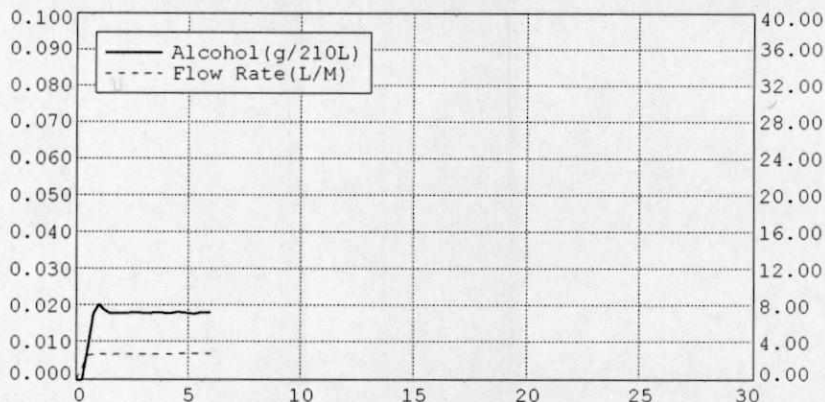
Date: 02/22/2024  
 Time: 10:36:21

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.24: 0.020  
 LOT #: AG217902  
 EXPIRATION: 06/28/2024  
 TANK PRESSURE: 532 psi

BLANK TEST	0.000	10:37
INTERNAL STANDARD	VERIFIED	10:38
EXTERNAL STANDARD	0.019	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.019	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.019	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.019	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.019	10:42
BLANK TEST	0.000	10:43

Average = 0.0190  
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100400

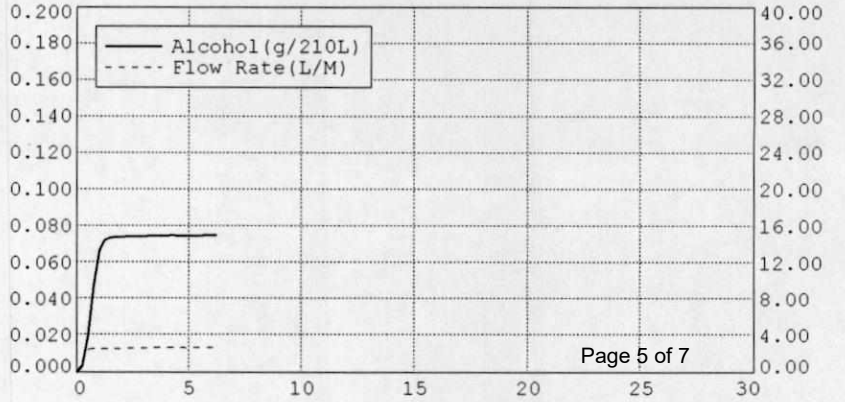
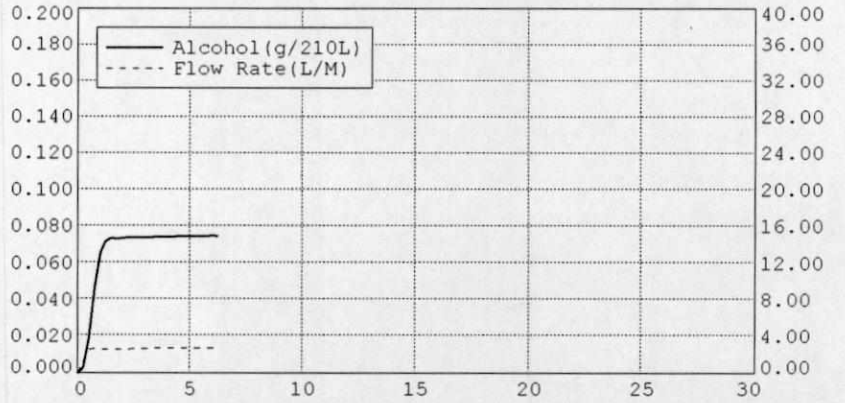
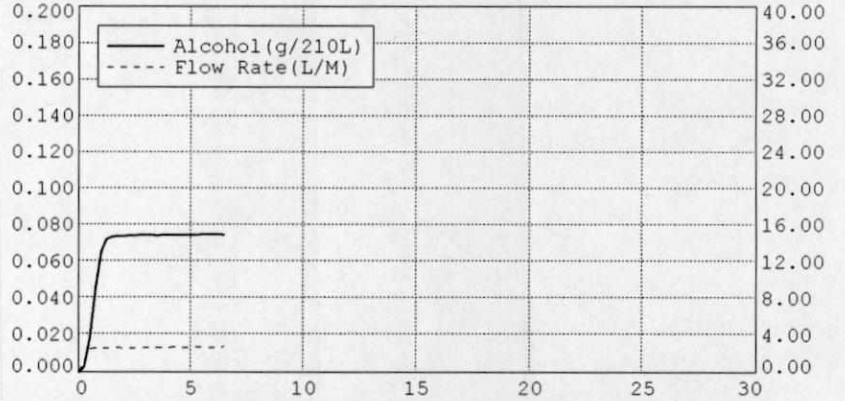
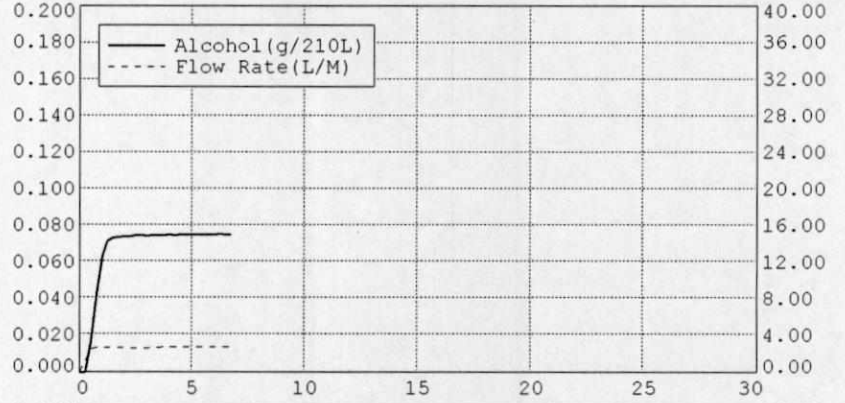
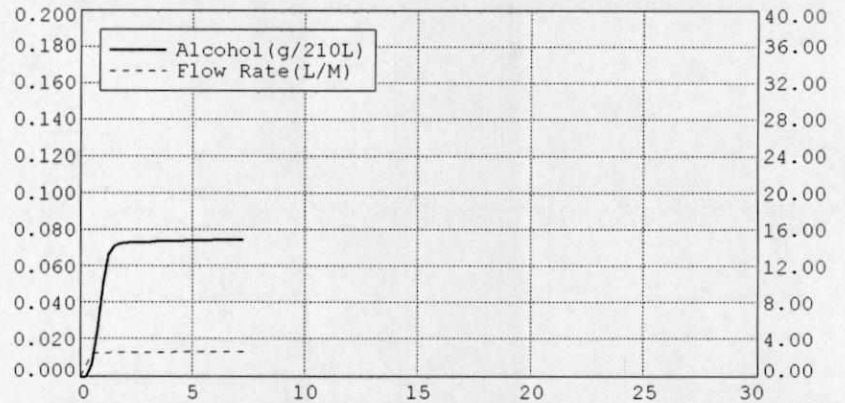
Date: 02/22/2024  
 Time: 10:45:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.26: 0.078  
 LOT #: AG310901  
 EXPIRATION: 04/19/2025  
 TANK PRESSURE: 258 psi

BLANK TEST	0.000	10:46
INTERNAL STANDARD	VERIFIED	10:46
EXTERNAL STANDARD	0.076	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.076	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.075	10:49
BLANK TEST	0.000	10:49
EXTERNAL STANDARD	0.075	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.076	10:51
BLANK TEST	0.000	10:52

Average = 0.0756  
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
 DATAMASTER dmt: 100400

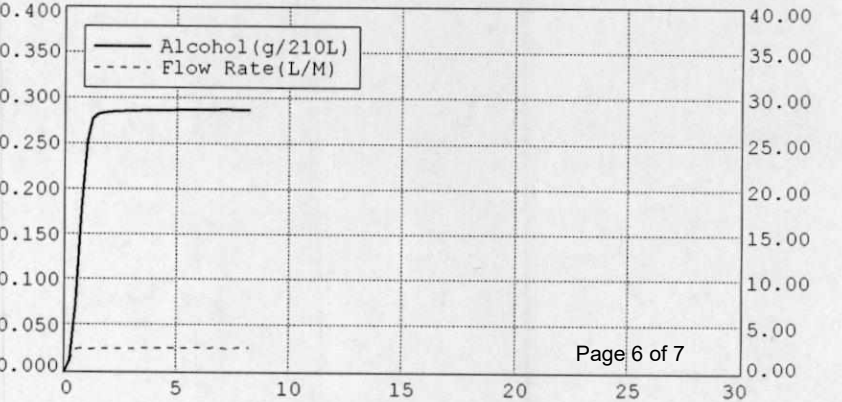
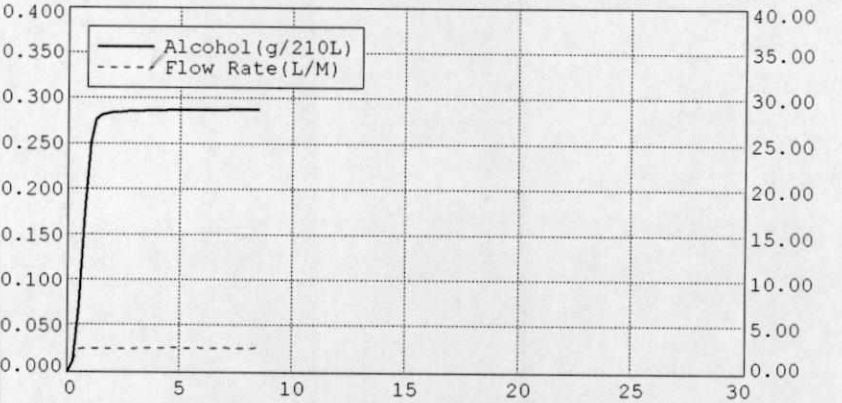
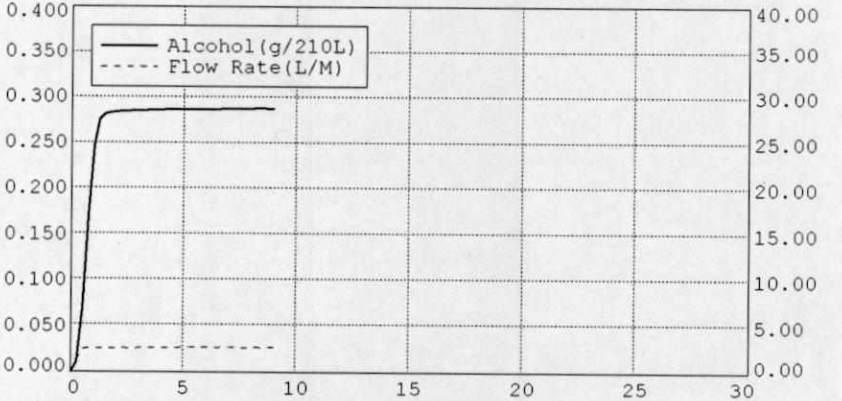
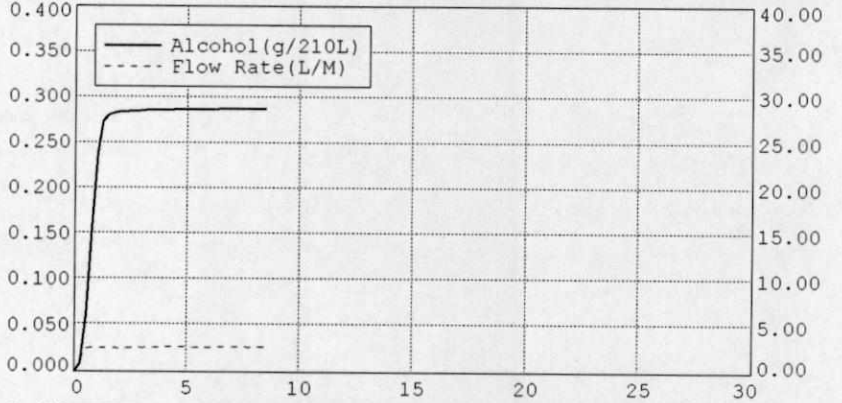
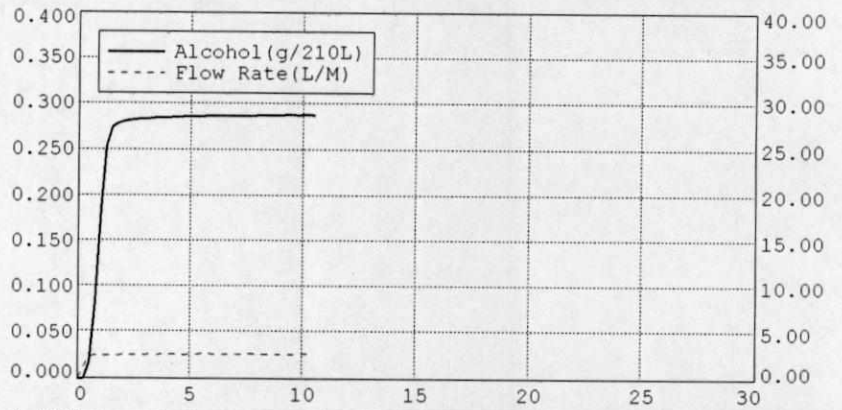
Date: 02/22/2024  
 Time: 11:09:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
 TARGET AT 29.27: 0.293  
 LOT #: AG327804  
 EXPIRATION: 10/05/2025  
 TANK PRESSURE: 217 psi

BLANK TEST	0.000	11:11
INTERNAL STANDARD	VERIFIED	11:11
EXTERNAL STANDARD	0.288	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.287	11:12
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.287	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.288	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.288	11:16
BLANK TEST	0.000	11:17

Average = 0.2876  
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100400

Date: 02/22/2024  
Time: 11:23:42

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.29: 0.078  
LOT #: AG310901  
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	11:24
BLANK TEST	0.000	11:24
INTERNAL STANDARD	VERIFIED	11:24
EXTERNAL STANDARD	0.076	11:25
BLANK TEST	0.000	11:26
SUBJECT SAMPLE (Vol=2.27L)	0.000	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.076	11:27
BLANK TEST	0.000	11:28

