

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100678

Analyst/Technician(s): Megan Crouse

Start Date: 2/22/24

Supervised by Carlie Glaister

Date Instrument Received: 2/20/24

Reason for instrument evaluation

Instrument missing data files.

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 checked="" 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): 29.46 Temperature (C): 22.5 Relative Humidity (%) 12

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

Notes: Replaced O-ring. Blank error occurred on the first VOC, this occurred on another instrument at the same time appears to be environmental.

Attach Non-Drinking Subject Test

Conclusion:

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

Lab Work End Date: 2/22/24

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100678

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/22/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.30: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 348 psi

BLANK TEST	0.000	13:50
INTERNAL STANDARD	VERIFIED	13:50
Xq = 0.080 (0.22%)		
EXTERNAL STANDARD	0.077	13:51
X[1] = 0.0767 (-0.0009) (0.0018)		
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.077	13:52
X[1] = 0.0774 (-0.0006) (0.0031)		
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.077	13:53
X[1] = 0.0775 (-0.0005) (0.0038)		
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.078	13:54
X[1] = 0.0776 (-0.0008) (0.0020)		
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.077	13:55
X[1] = 0.0773 (-0.0012) (0.0030)		
BLANK TEST	0.000	13:56

Average = 0.0772
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 = 47.9°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.71 V	PASSED
(1.03 V - 2.39 V)	
Cooler Voltage = 1.55 V	PASSED
(1.00 V - 2.34 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 513 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.3 in	

PUMP INFO

Flow Rate = 4.895 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
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.078 1.85%	PASSED
(0.00% - 4.00%)	

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100678

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/22/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.30: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 353 psi

BLANK TEST	0.000	13:46
INTERNAL STANDARD	VERIFIED	13:46
EXTERNAL STANDARD	0.076	13:47

Blank Error

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 47.5°C	PASSED

PUMP INFO

Flow Rate = 4.945 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

LINEARITY CHECK

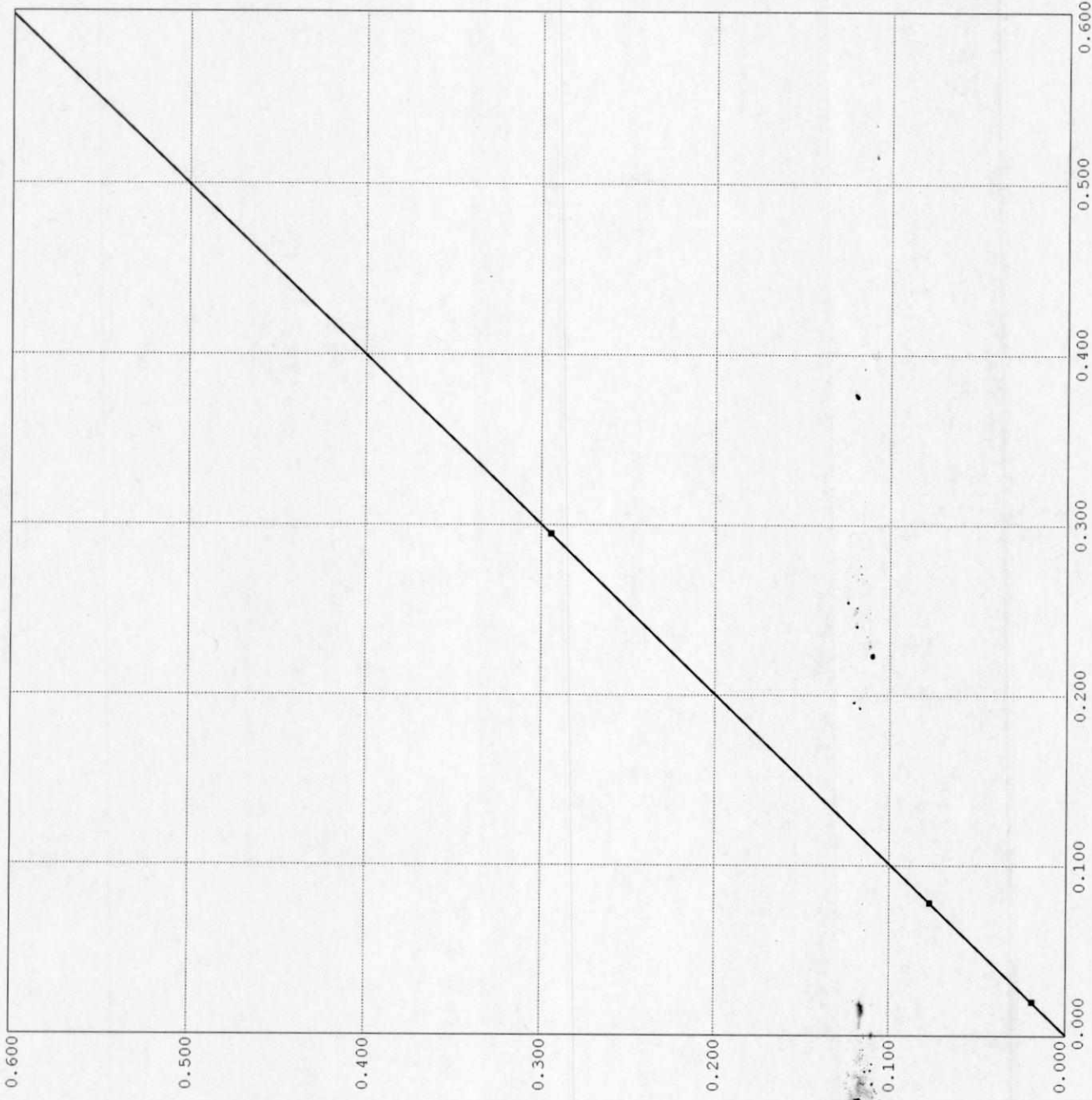
 Alaska Department of Public Safety
 DATAMASTER dmt: 100678

Date: 02/22/2024
 Time: 14:00:49

SUPERVISOR NAME:
 MEGAN CROUSE
 OPERATOR'S #: 10747

TARGET	AVERAGE	STD. DEV.
0.020	0.0196	0.0005
0.078	0.0780	0.0000
0.294	0.2950	0.0000

SLOPE = 1.004979
 R² = 1.000000



MNC

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

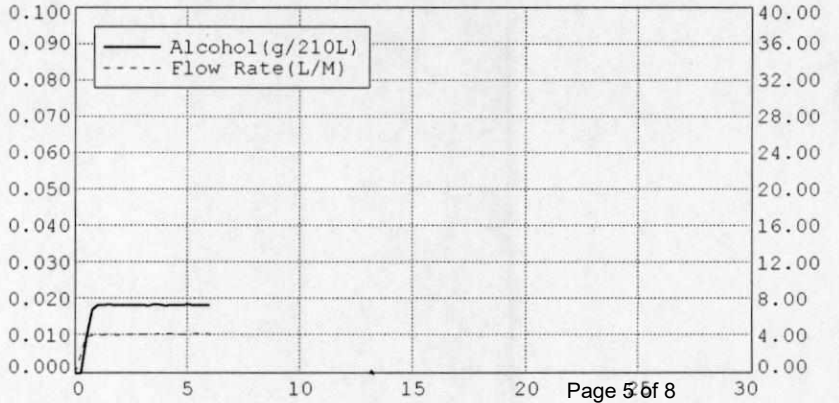
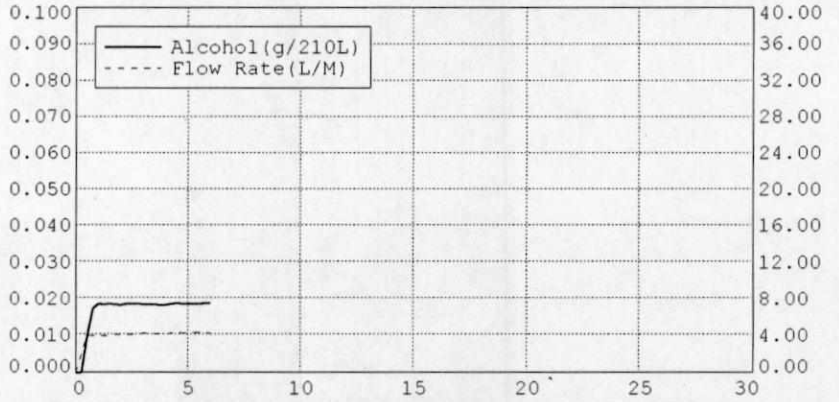
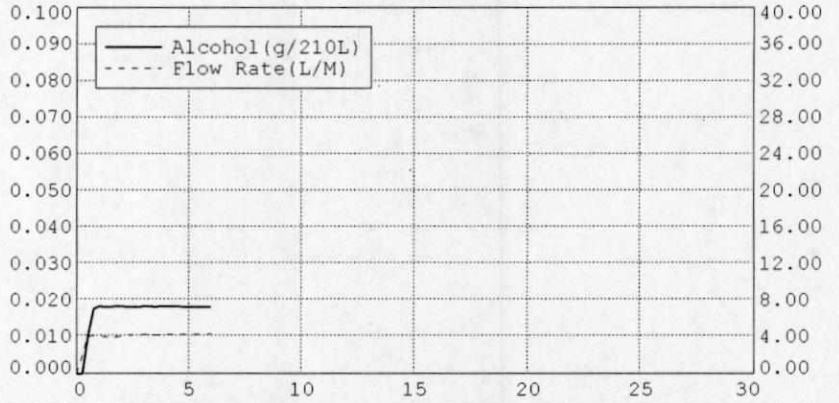
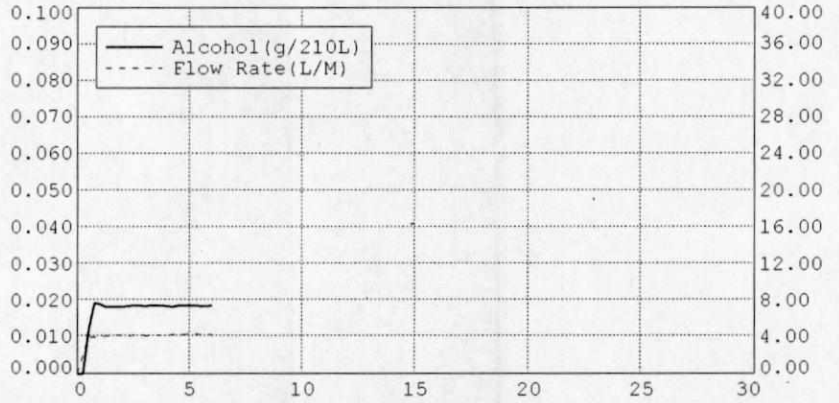
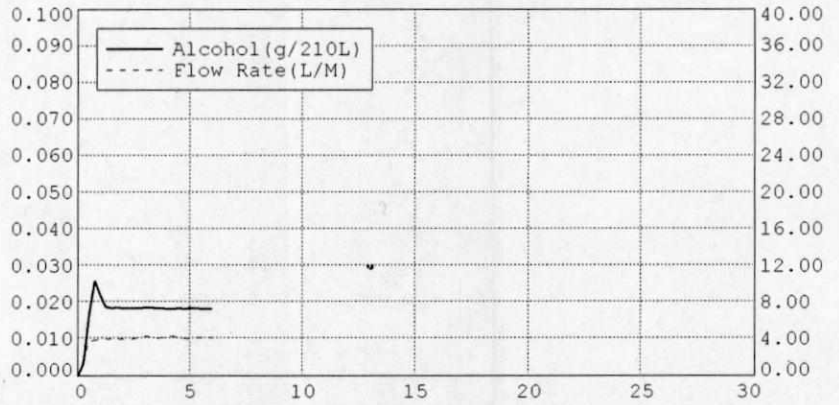
Date: 02/22/2024
 Time: 14:00:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.31: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 271 psi

BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.019	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.020	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.019	14:05
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.020	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.020	14:07
BLANK TEST	0.000	14:08

Average = 0.0196
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100678

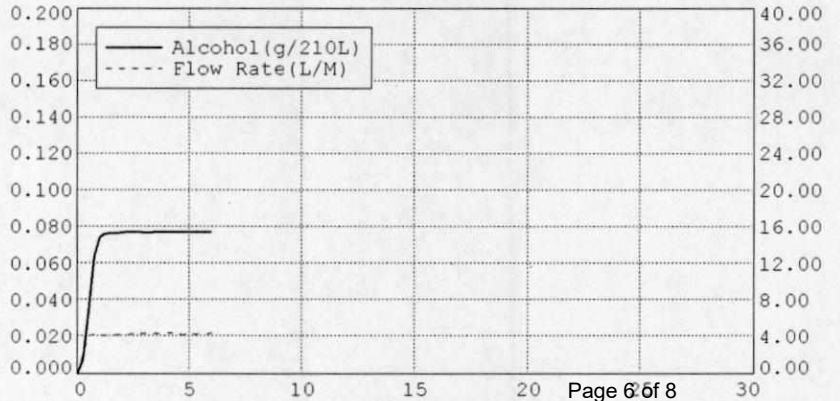
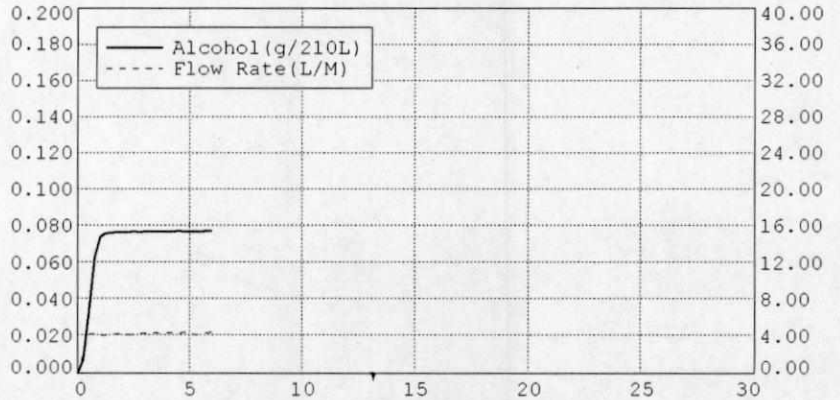
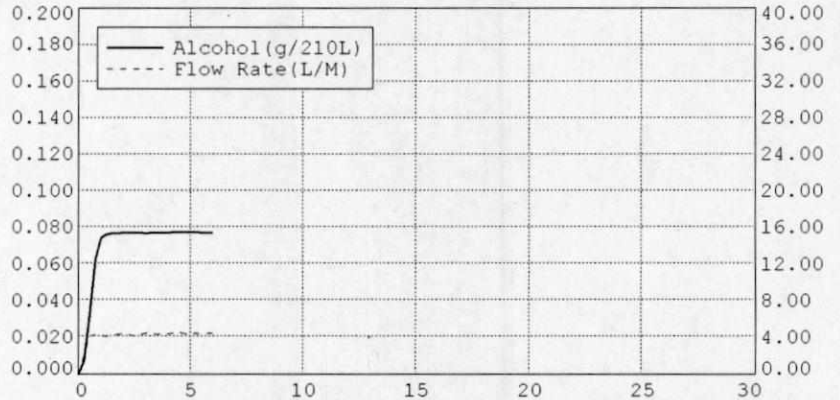
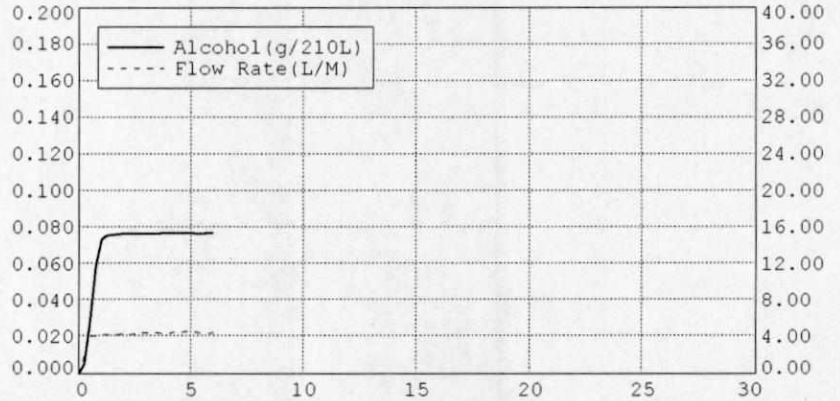
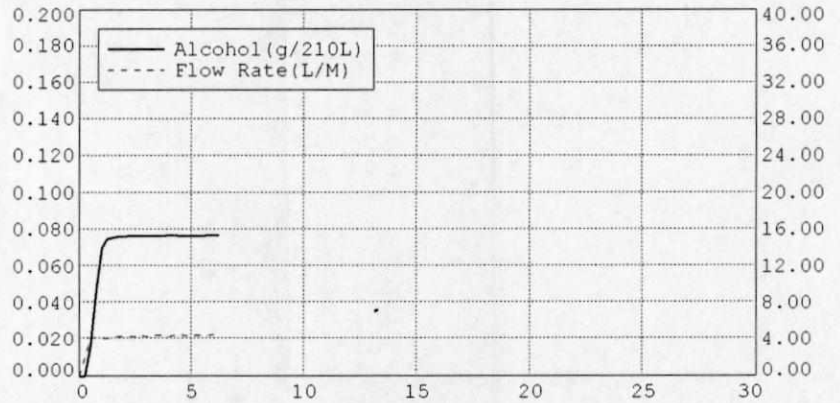
Date: 02/22/2024
Time: 14:09:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.32: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 320 psi

BLANK TEST	0.000	14:11
INTERNAL STANDARD	VERIFIED	14:11
EXTERNAL STANDARD	0.078	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.078	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.078	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.078	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.078	14:16
BLANK TEST	0.000	14:16

Average = 0.0780
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

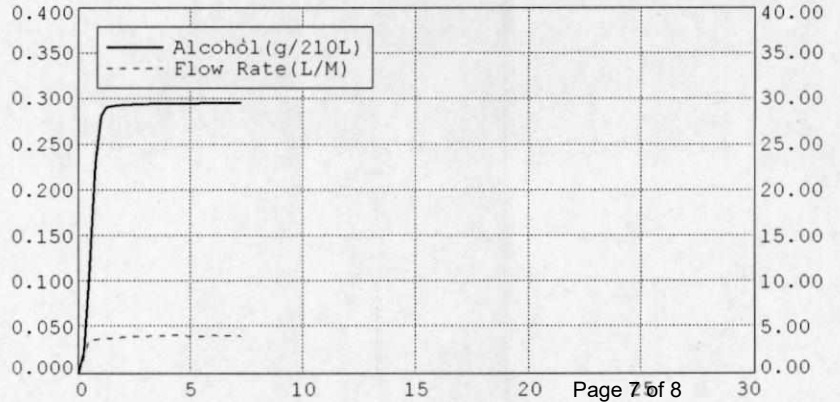
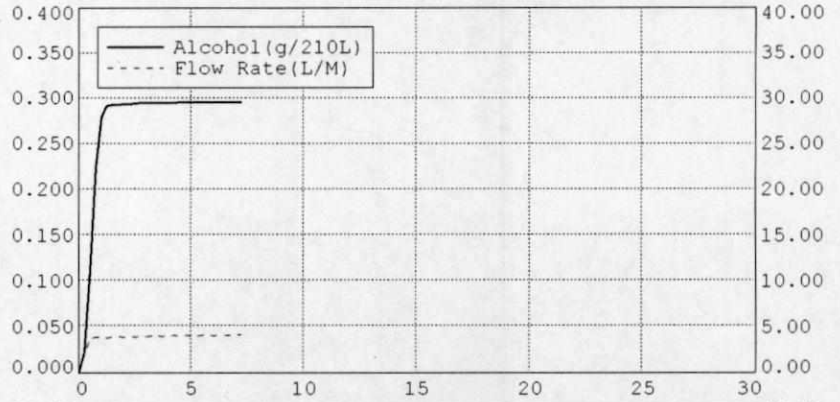
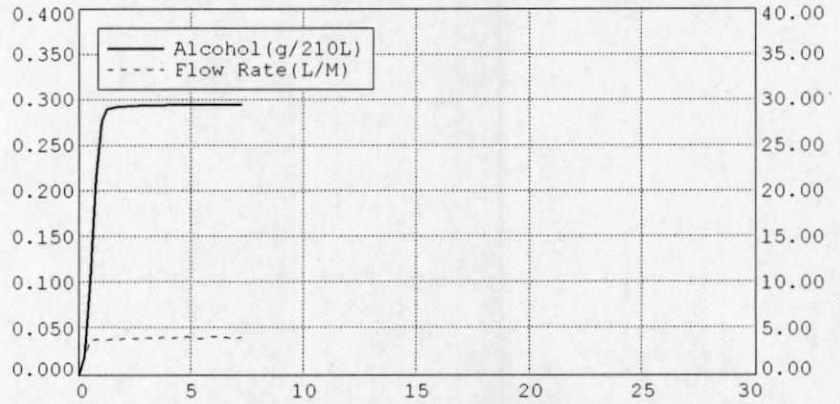
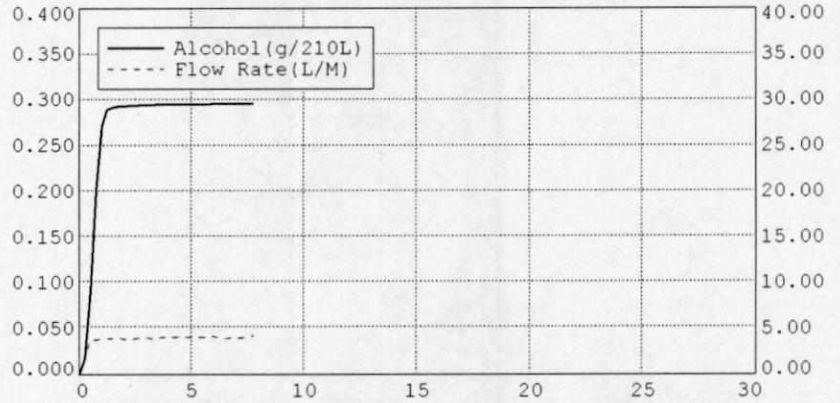
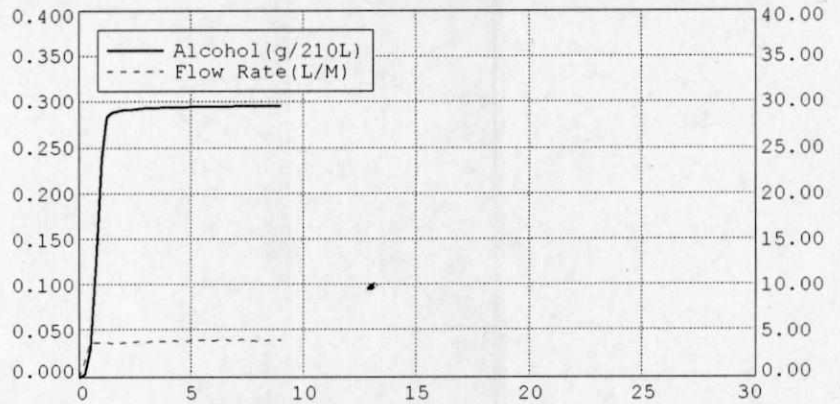
Date: 02/22/2024
 Time: 14:22:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.34: 0.294
 LOT #: AG327804
 EXPIRATION: 10/05/2025
 TANK PRESSURE: 200 psi

BLANK TEST	0.000	14:24
INTERNAL STANDARD	VERIFIED	14:24
EXTERNAL STANDARD	0.295	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.295	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.295	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.295	14:28
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.295	14:29
BLANK TEST	0.000	14:30

Average = 0.2950
 Std Dev = 0.0000



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 02/22/2024
Time: 14:39:40

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
MEGAN CROUSE
OPERATOR'S #: 10747

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.34: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	14:40
BLANK TEST	0.000	14:40
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.078	14:41
BLANK TEST	0.000	14:42
SUBJECT SAMPLE (Vol=2.46L)	0.000	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.079	14:43
BLANK TEST	0.000	14:44

M/C

