

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100353

Analyst/Technician(s): Megan Crouse

Start Date: 5/29/24

Date Instrument Received: 5/29/24

Supervised by Derch Watton
JMW 05/31/24

Reason for instrument evaluation

Repairs for filter wheel issues, came back from Intox.

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 $\leq 3.00\%$
<u>3.56%</u> | <input checked="" type="checkbox"/> Verify software version |
| Condition of item: <input checked="" type="checkbox"/> No apparent damage <input type="checkbox"/> 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): 29.77 Temperature (C): 22.0 Relative Humidity (%) 31

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

Notes: Changed O-ring, reset options, cleared memory.

Attach Non-Drinking Subject Test

Conclusion:

- Ready for Adjustment Needs Repair
 Ready for Calibration

MNC
5/31/24

Lab Work End Date: 5/30/24

High internal standard reading,
recommend internal standard
cleaning. MNC 5/31/24

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100353

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/29/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.67: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1178 psi

BLANK TEST	0.000	12:11
INTERNAL STANDARD	VERIFIED	12:11
Xq = 0.117 (2.24%)		
EXTERNAL STANDARD	0.080	12:12
X[1] = 0.0796 (0.0044) (-0.0017)		
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.079	12:13
X[1] = 0.0794 (0.0034) (-0.0014)		
BLANK TEST	0.000	12:14
EXTERNAL STANDARD	0.080	12:14
X[1] = 0.0797 (0.0017) (-0.0005)		
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.080	12:15
X[1] = 0.0799 (0.0027) (0.0000)		
BLANK TEST	0.000	12:16
EXTERNAL STANDARD	0.080	12:16
X[1] = 0.0799 (0.0024) (-0.0006)		
BLANK TEST	0.000	12:17

Average = 0.0798
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.07
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.5°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.68 V	PASSED
(1.01 V - 2.35 V)	
Cooler Voltage = 1.68 V	PASSED
(0.97 V - 2.27 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 528 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 5.450 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
(0.001 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.118	3.56%	(0.00% - 4.00%)	PASSED
------------	-------	-----------------	--------

LINEARITY CHECK

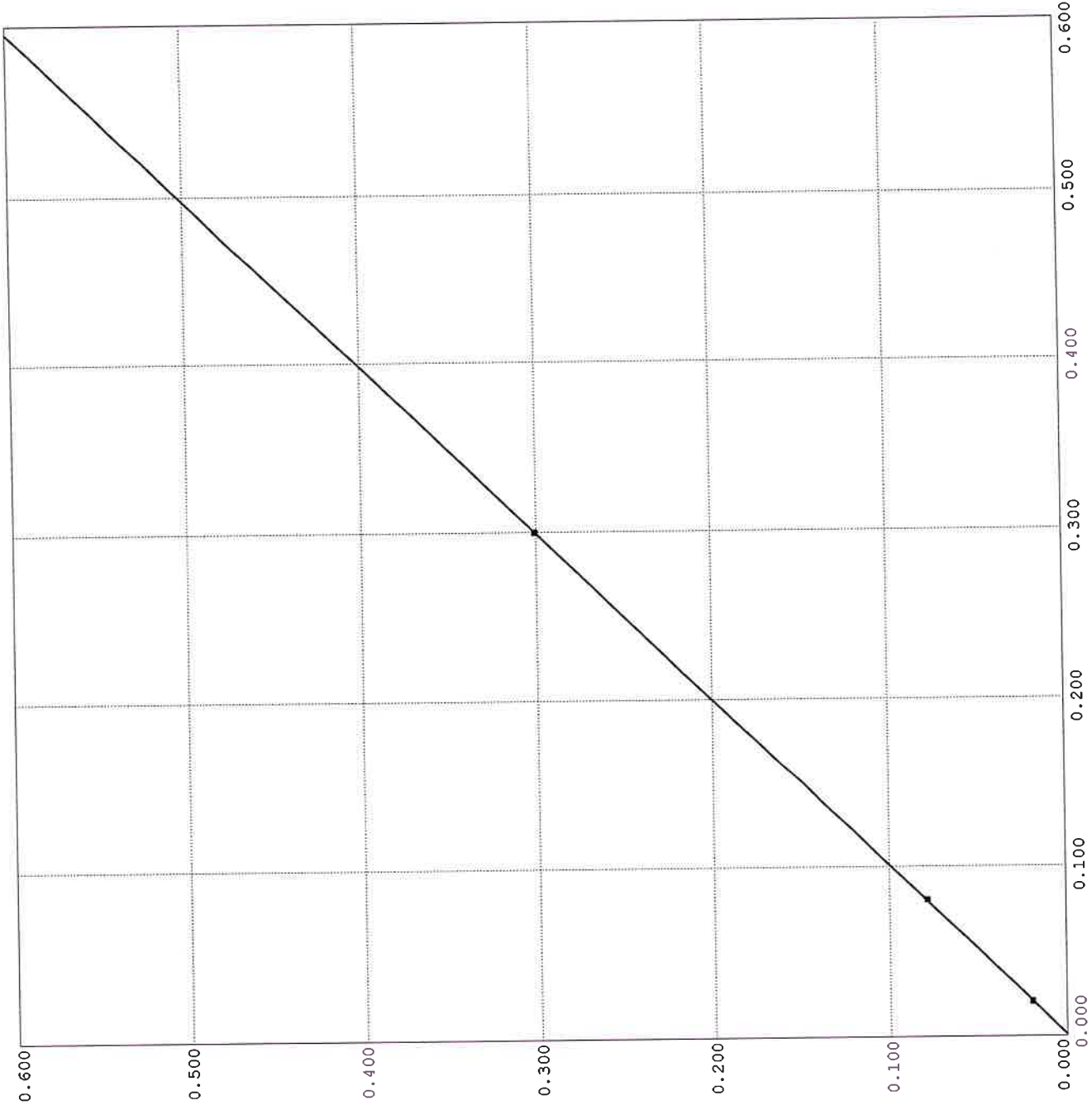
Alaska Department of Public Safety
 DATAMASTER dmt: 100353

Date: 05/30/2024
 Time: 11:16:35

SUPERVISOR NAME:
 MEGAN CROUSE
 OPERATOR'S #: 10747

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.080	0.0796	0.0005
0.299	0.3014	0.0005

SLOPE = 1.009728
 R² = 0.999989



MNC

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100353

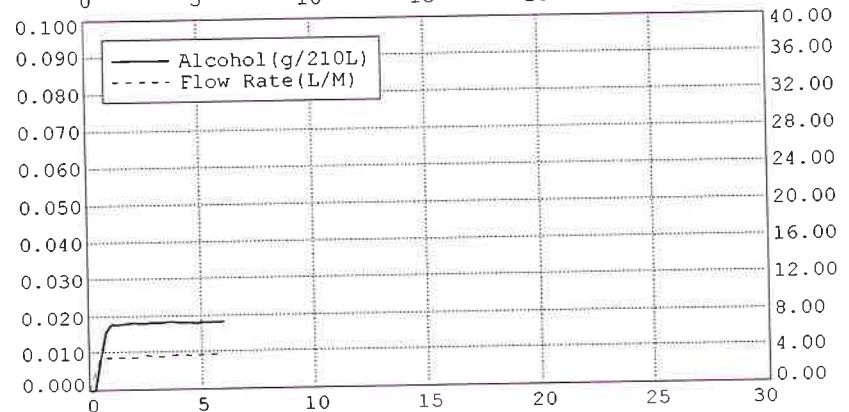
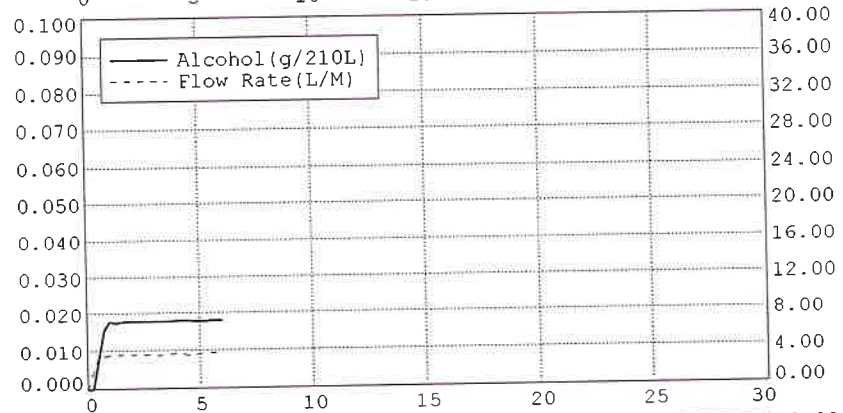
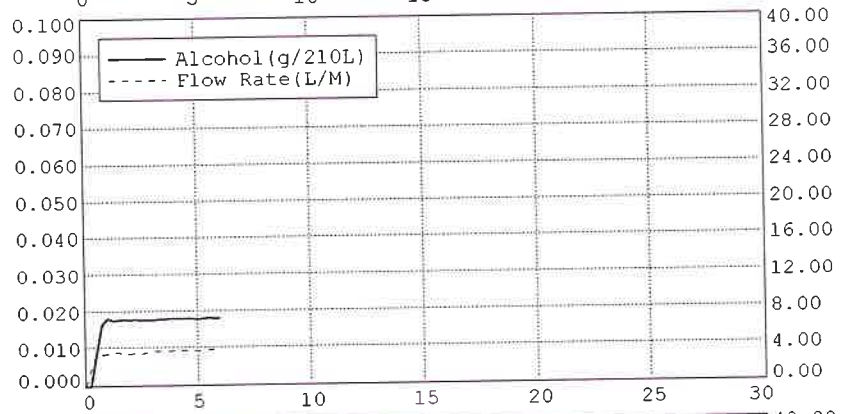
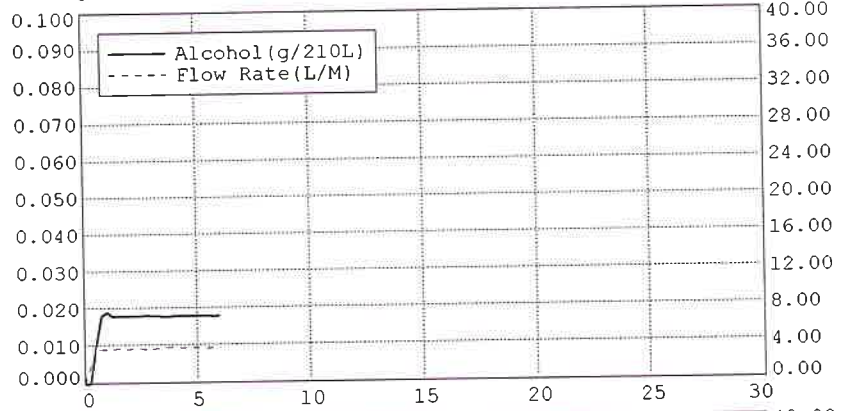
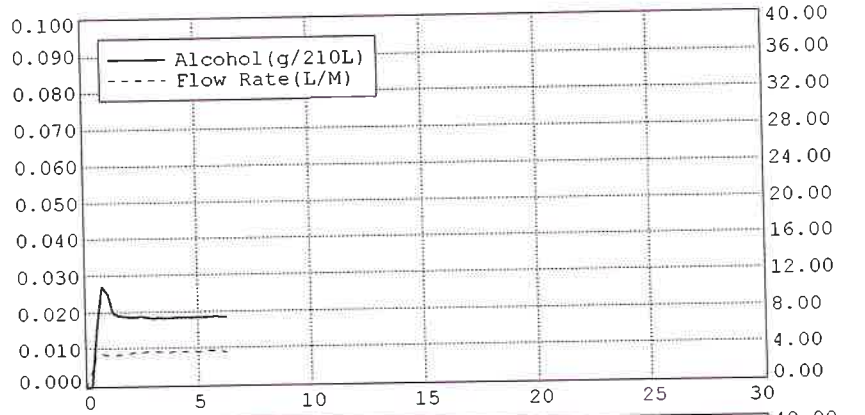
Date: 05/30/2024
 Time: 11:16:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.77: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 327 psi

BLANK TEST	0.000	11:18
INTERNAL STANDARD	VERIFIED	11:18
EXTERNAL STANDARD	0.020	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.020	11:20
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.020	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.020	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.020	11:23
BLANK TEST	0.000	11:24

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

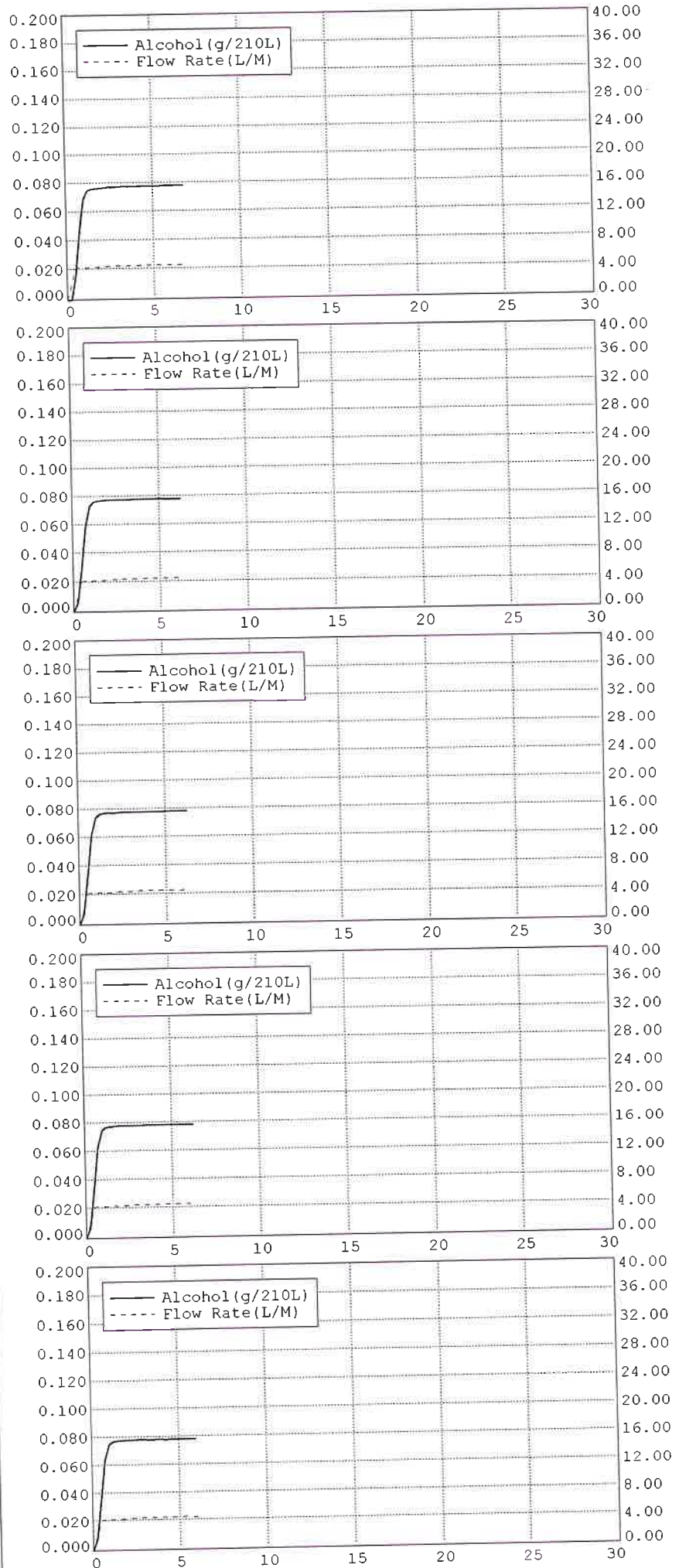
Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 05/30/2024
Time: 11:24:59

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.77: 0.080
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 850 psi

BLANK TEST	0.000	11:26
INTERNAL STANDARD	VERIFIED	11:26
EXTERNAL STANDARD	0.079	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.079	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.080	11:28
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.080	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.080	11:31
BLANK TEST	0.000	11:31

Average = 0.0796
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100353

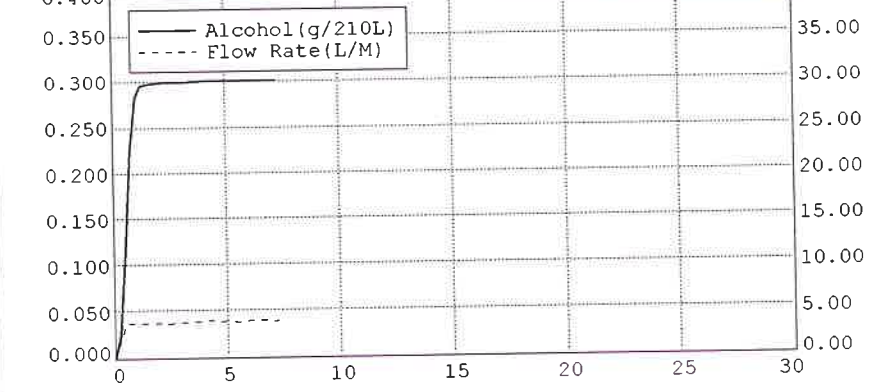
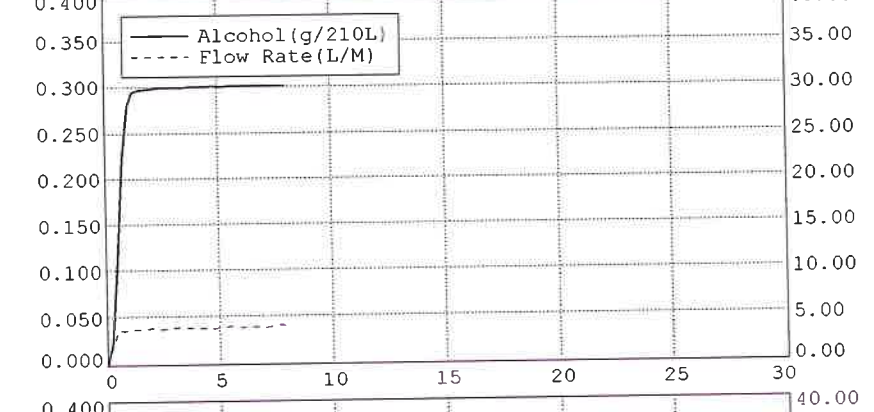
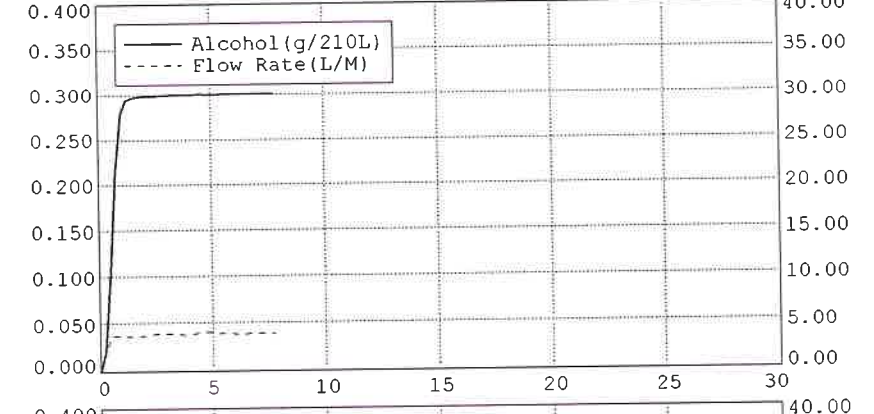
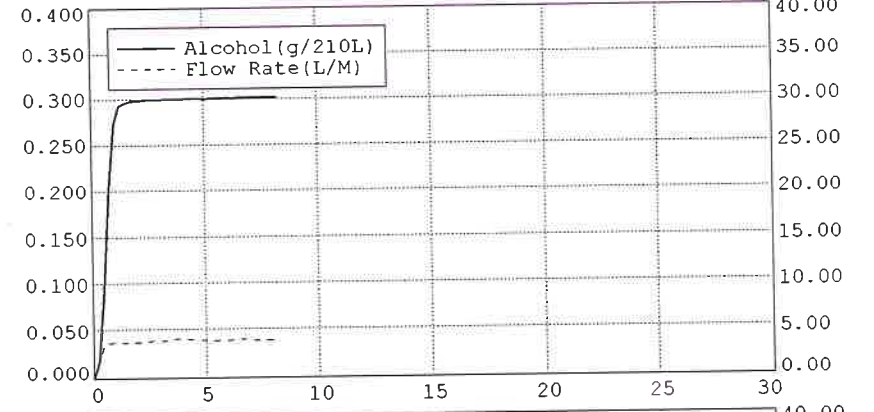
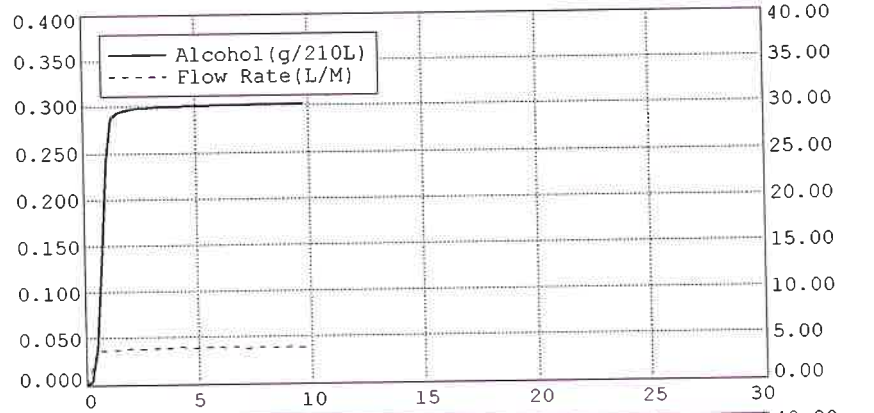
Date: 05/30/2024
 Time: 11:32:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.77: 0.299
 LOT #: AG327804
 EXPIRATION: 10/05/2025
 TANK PRESSURE: 498 psi

BLANK TEST	0.000	11:34
INTERNAL STANDARD	VERIFIED	11:34
EXTERNAL STANDARD	0.302	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.302	11:35
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.301	11:37
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.301	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.301	11:39
BLANK TEST	0.000	11:40

Average = 0.3014
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 05/30/2024
Time: 12:46:08

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 29.76: 0.080
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	12:47
BLANK TEST	0.000	12:47
INTERNAL STANDARD	VERIFIED	12:47
EXTERNAL STANDARD	0.079	12:47
BLANK TEST	0.000	12:48
SUBJECT SAMPLE (Vol=3.26L)	0.000	12:49
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.080	12:50
BLANK TEST	0.000	12:51

MNC

