

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100370

Analyst/Technician(s): Kaya Swisher

Start Date: 12/19/24

Date Instrument Received: 12/16/24

19 KS 1/10/25

Reason for instrument evaluation

Missing Data Files.

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): 29.28 Temperature (C): 22.3 Relative Humidity (%) 7

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: 12/19/24

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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 #: 100370

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/19/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.26: 0.078

LOT #: AG335202

EXPIRATION: 12/18/2025

TANK PRESSURE: 659 psi

BLANK TEST 0.000 11:40

INTERNAL STANDARD VERIFIED 11:40

Xq = 0.090 (1.47%)

EXTERNAL STANDARD 0.077 11:40

X[1] = 0.0765 (-0.0002) (0.0029)

BLANK TEST 0.000 11:41

EXTERNAL STANDARD 0.076 11:41

X[1] = 0.0765 (-0.0009) (0.0019)

BLANK TEST 0.000 11:42

EXTERNAL STANDARD 0.078 11:42

X[1] = 0.0775 (-0.0002) (0.0021)

BLANK TEST 0.000 11:43

EXTERNAL STANDARD 0.078 11:43

X[1] = 0.0778 (0.0003) (0.0024)

BLANK TEST 0.000 11:44

EXTERNAL STANDARD 0.078 11:45

X[1] = 0.0776 (-0.0001) (0.0018)

BLANK TEST 0.000 11:45

Average = 0.0774

Std Dev = 0.0009

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.02

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED

(44.0°C - 52.0°C)

Breath Tube = 44.1°C PASSED

(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.87 V PASSED

(1.06 V - 2.48 V)

Cooler Voltage = 1.89 V PASSED

(1.06 V - 2.46 V)

Bias Voltage = 80 V PASSED

(48 V - 112 V)

Chopper Freq = 526 Hz PASSED

(475 Hz - 575 Hz)

Barometer = 29.3 in

PUMP INFO

Flow Rate = 4.304 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 PASSED

Xq = 0.089 0.20% (0.00% - 4.00%)

LINEARITY CHECK

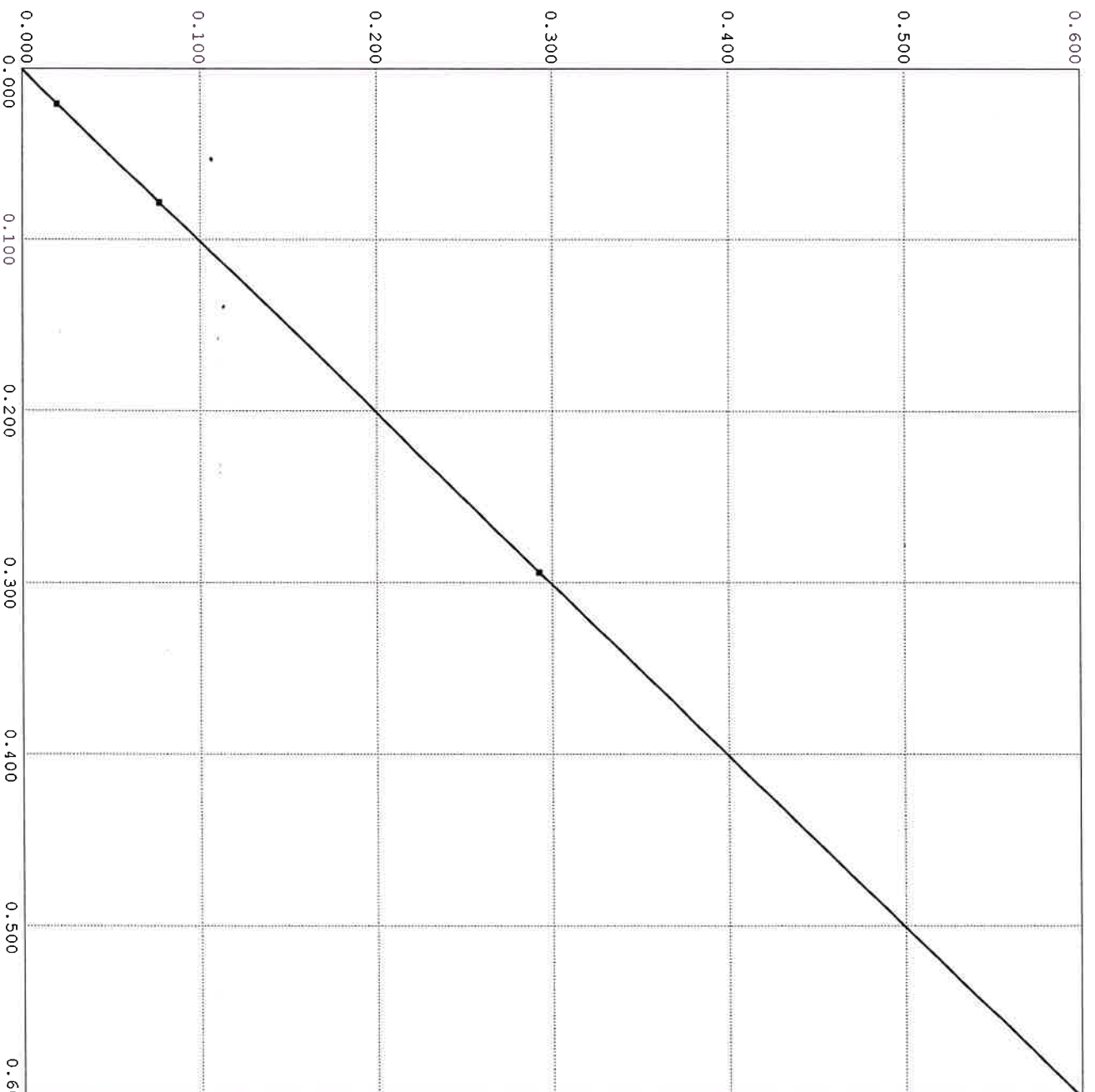
Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 12/19/2024
Time: 11:48:55

SUPERVISOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.078	0.0780	0.0000
0.293	0.2932	0.0008

SLOPE = 1.000786
 R^2 = 1.000000



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LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100370

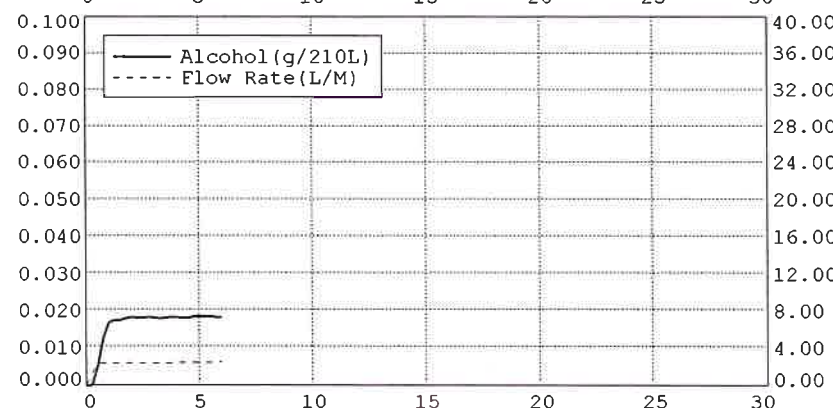
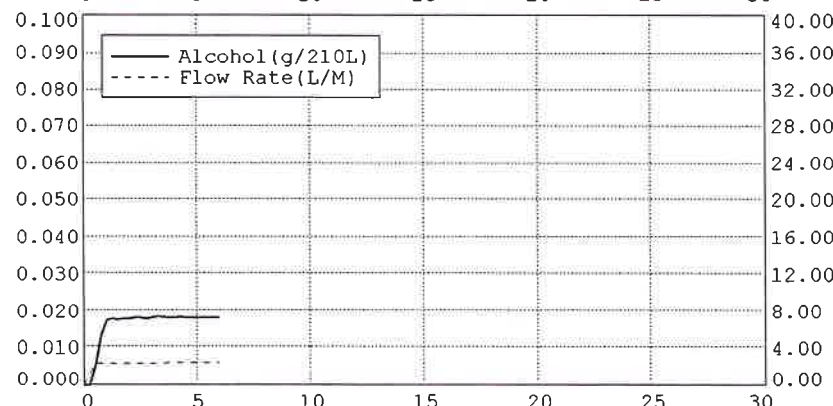
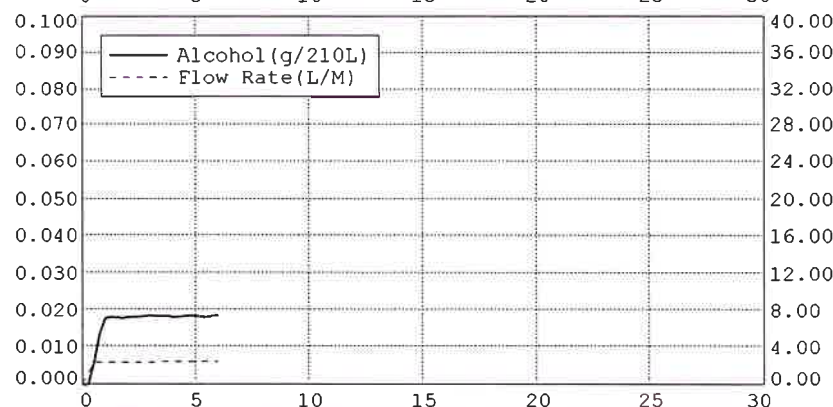
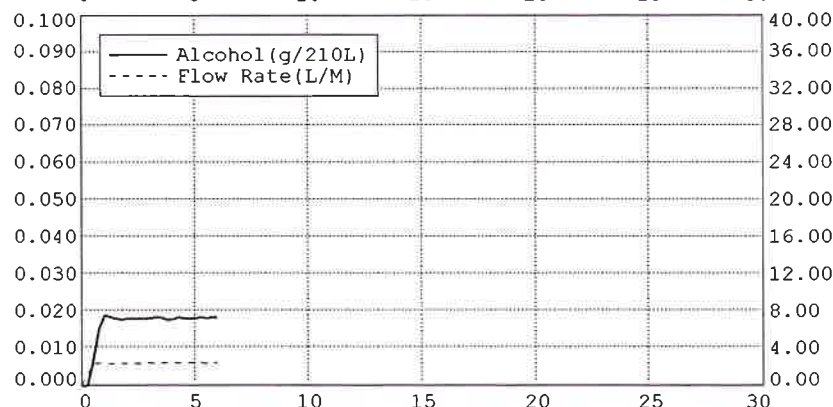
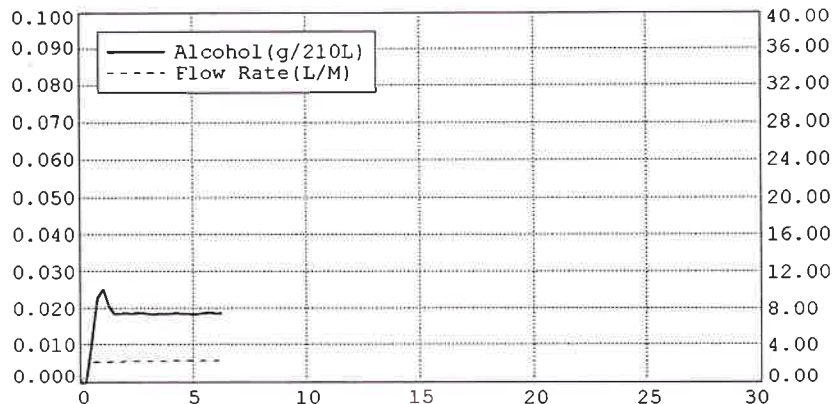
Date: 12/19/2024
Time: 11:48:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.26: 0.020
LOT #: AG408002
EXPIRATION: 03/20/2026
TANK PRESSURE: 664 psi

BLANK TEST	0.000	11:50
INTERNAL STANDARD	VERIFIED	11:50
EXTERNAL STANDARD	0.020	11:51
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.020	11:52
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.020	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.020	11:54
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.020	11:55
BLANK TEST	0.000	11:56

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100370

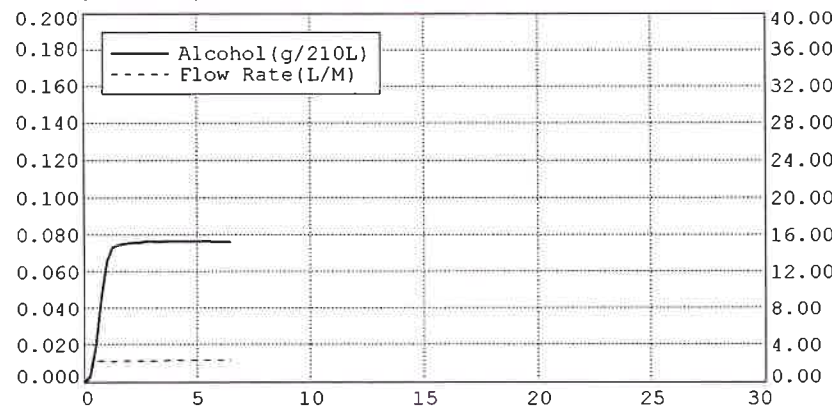
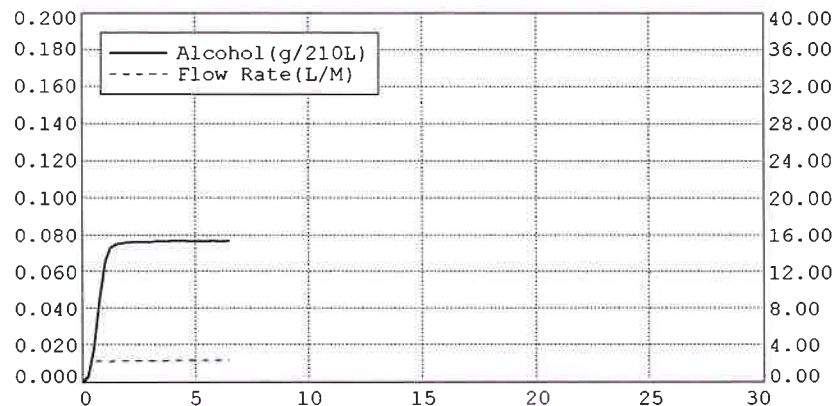
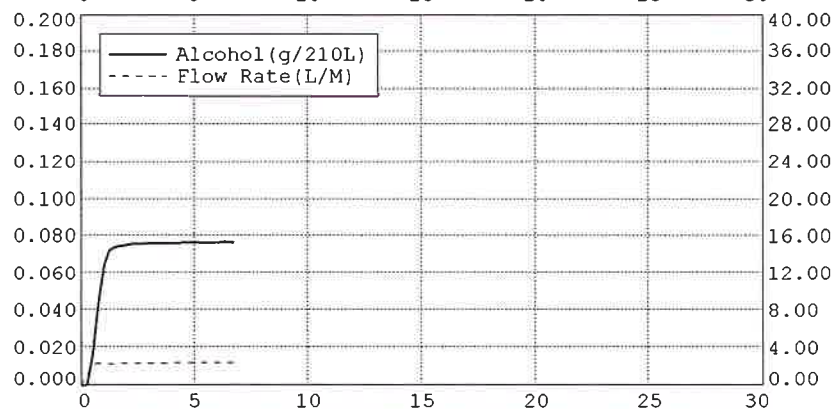
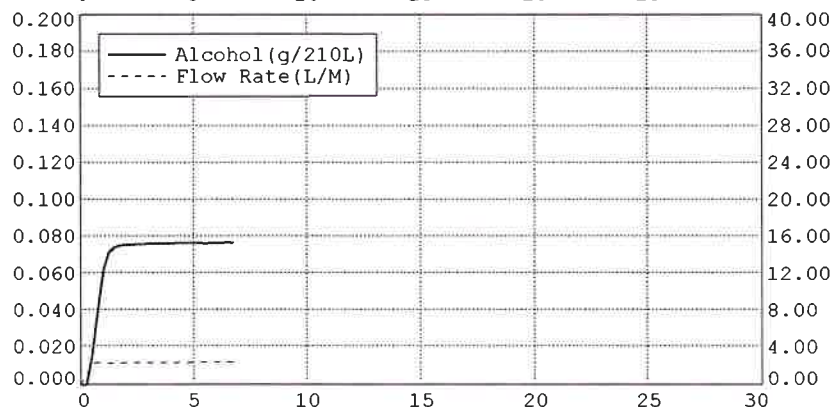
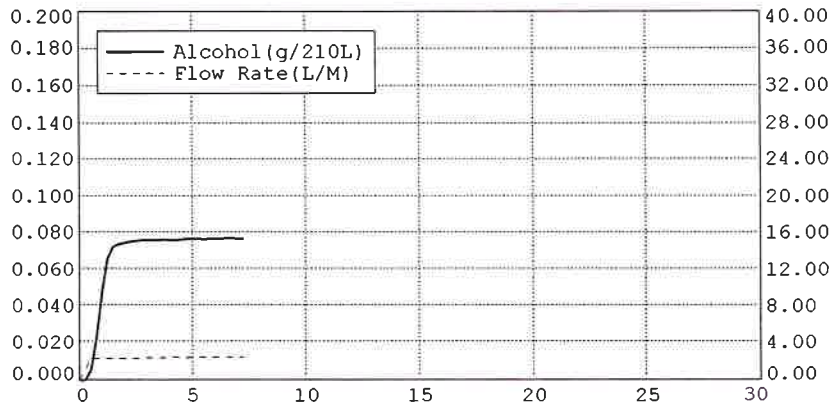
Date: 12/19/2024
Time: 12:01:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.26: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 640 psi

BLANK TEST	0.000	12:03
INTERNAL STANDARD	VERIFIED	12:03
EXTERNAL STANDARD	0.078	12:03
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.078	12:04
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.078	12:05
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.078	12:07
BLANK TEST	0.000	12:07
EXTERNAL STANDARD	0.078	12:08
BLANK TEST	0.000	12:09

Average = 0.0780
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100370

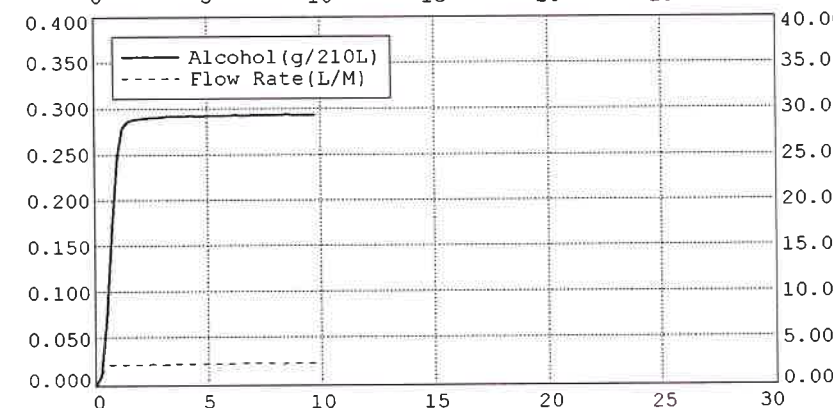
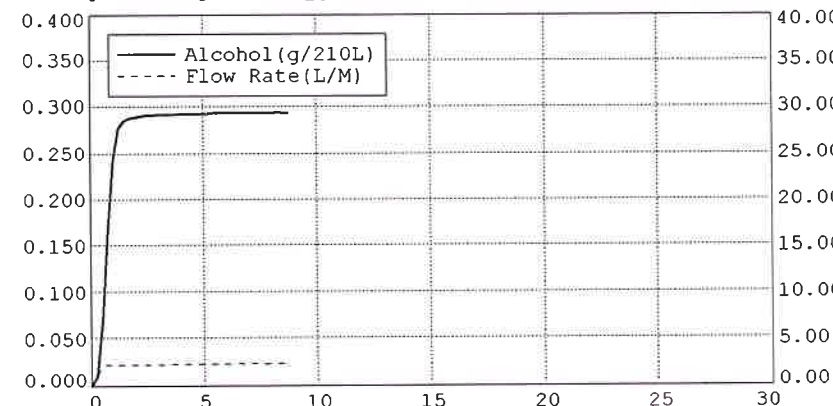
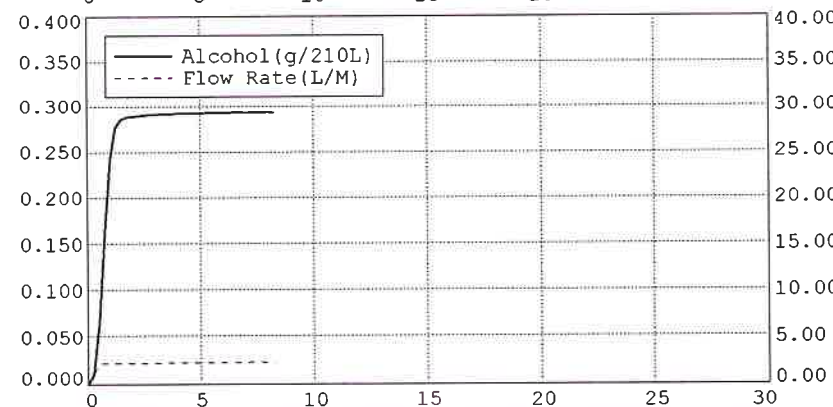
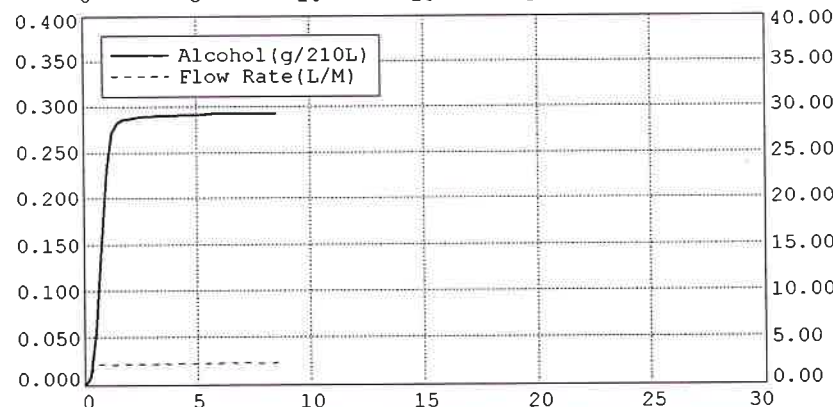
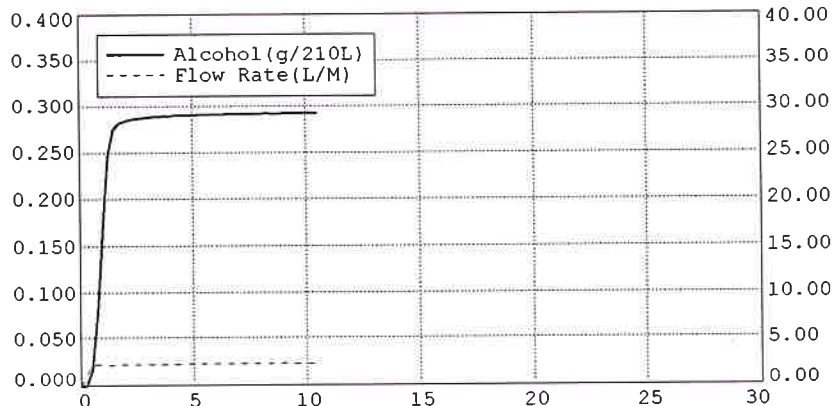
Date: 12/19/2024
Time: 12:10:05

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.26: 0.293
LOT #: AG427706
EXPIRATION: 10/03/2026
TANK PRESSURE: 450 psi

BLANK TEST	0.000	12:11
INTERNAL STANDARD	VERIFIED	12:11
EXTERNAL STANDARD	0.293	12:12
BLANK TEST	0.000	12:13
EXTERNAL STANDARD	0.292	12:13
BLANK TEST	0.000	12:14
EXTERNAL STANDARD	0.293	12:14
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.294	12:15
BLANK TEST	0.000	12:16
EXTERNAL STANDARD	0.294	12:16
BLANK TEST	0.000	12:17

Average = 0.2932
Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100370

Date: 12/19/2024
Time: 12:25:16

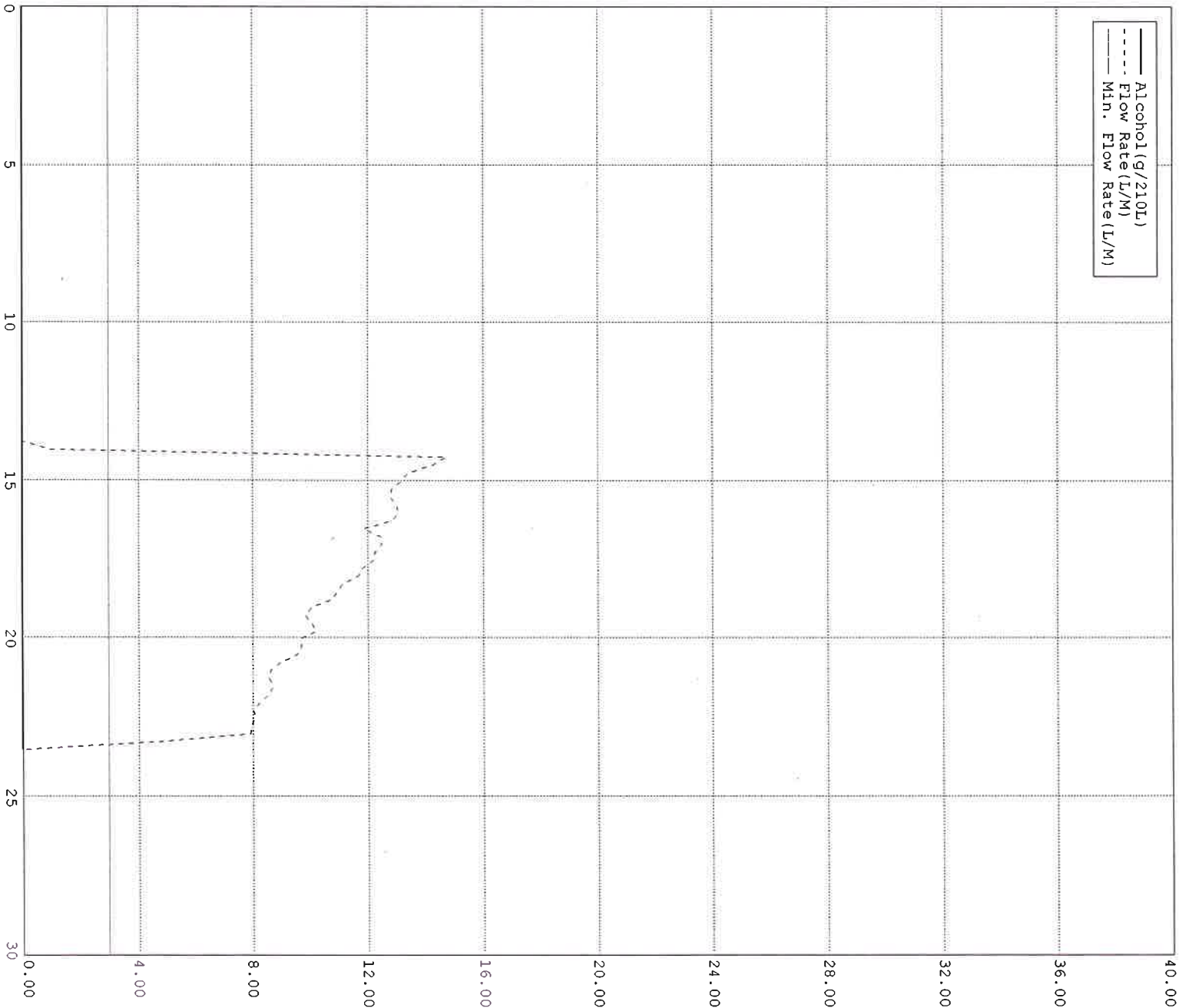
SUBJECT NAME:
TEST TEST
LICENSE #: XXX
OPERATOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.26: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	12:26
BLANK TEST	0.000	12:26
INTERNAL STANDARD	VERIFIED	12:26
EXTERNAL STANDARD	0.078	12:26
BLANK TEST	0.000	12:27
SUBJECT SAMPLE (Vol=1.65L)	0.000	12:28
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.078	12:29
BLANK TEST	0.000	12:30

Alcohol(g/210L)
Flow Rate(L/M)
Min. Flow Rate(L/M)



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