

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100398

Analyst/Technician(s): Kaija Swisher

Start Date: 3/20/25

Date Instrument Received: 3/20/25

Reason for instrument evaluation

Internal standard errors.

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): 29.04 Temperature (C): 22.6 Relative Humidity (%): 15

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

Notes: Replaced O-Ring. Due to internal standard errors out in the field, see infield instrument review 2024.10.25-2024.12.12, and a high internal standard (2.51%) on VOC, instrument marked as ready for adjustment.

☒ Attach Non-Drinking Subject Test

Conclusion:

- | | |
|--|---------------------------------------|
| ☒ Ready for Adjustment | ☐ Needs Repair |
| ☐ Ready for Calibration | |

Lab Work End Date: 3/20/25

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Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100398

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/20/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 28.96: 0.077

LOT #: AG335202

EXPIRATION: 12/18/2025

TANK PRESSURE: 412 psi

BLANK TEST 0.000 13:37

INTERNAL STANDARD VERIFIED 13:37

Xq = 0.082 (2.40%)

EXTERNAL STANDARD 0.076 13:37

X[1] = 0.0764 (-0.0039) (-0.0020)

BLANK TEST 0.000 13:38

EXTERNAL STANDARD 0.077 13:38

X[1] = 0.0766 (-0.0028) (-0.0012)

BLANK TEST 0.000 13:39

EXTERNAL STANDARD 0.077 13:39

X[1] = 0.0770 (-0.0025) (-0.0012)

BLANK TEST 0.000 13:40

EXTERNAL STANDARD 0.076 13:40

X[1] = 0.0764 (-0.0034) (-0.0006)

BLANK TEST 0.000 13:41

EXTERNAL STANDARD 0.076 13:41

X[1] = 0.0765 (-0.0036) (-0.0005)

BLANK TEST 0.000 13:42

Average = 0.0764

Std Dev = 0.0005

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.02

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)

Breath Tube = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.85 V PASSED
(1.09 V - 2.55 V)

Cooler Voltage = 1.66 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 = 29.0 in

PUMP INFO

Flow Rate = 4.080 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

PASSED
Xq = 0.082 2.51% (0.00% - 4.00%)

LINEARITY CHECK

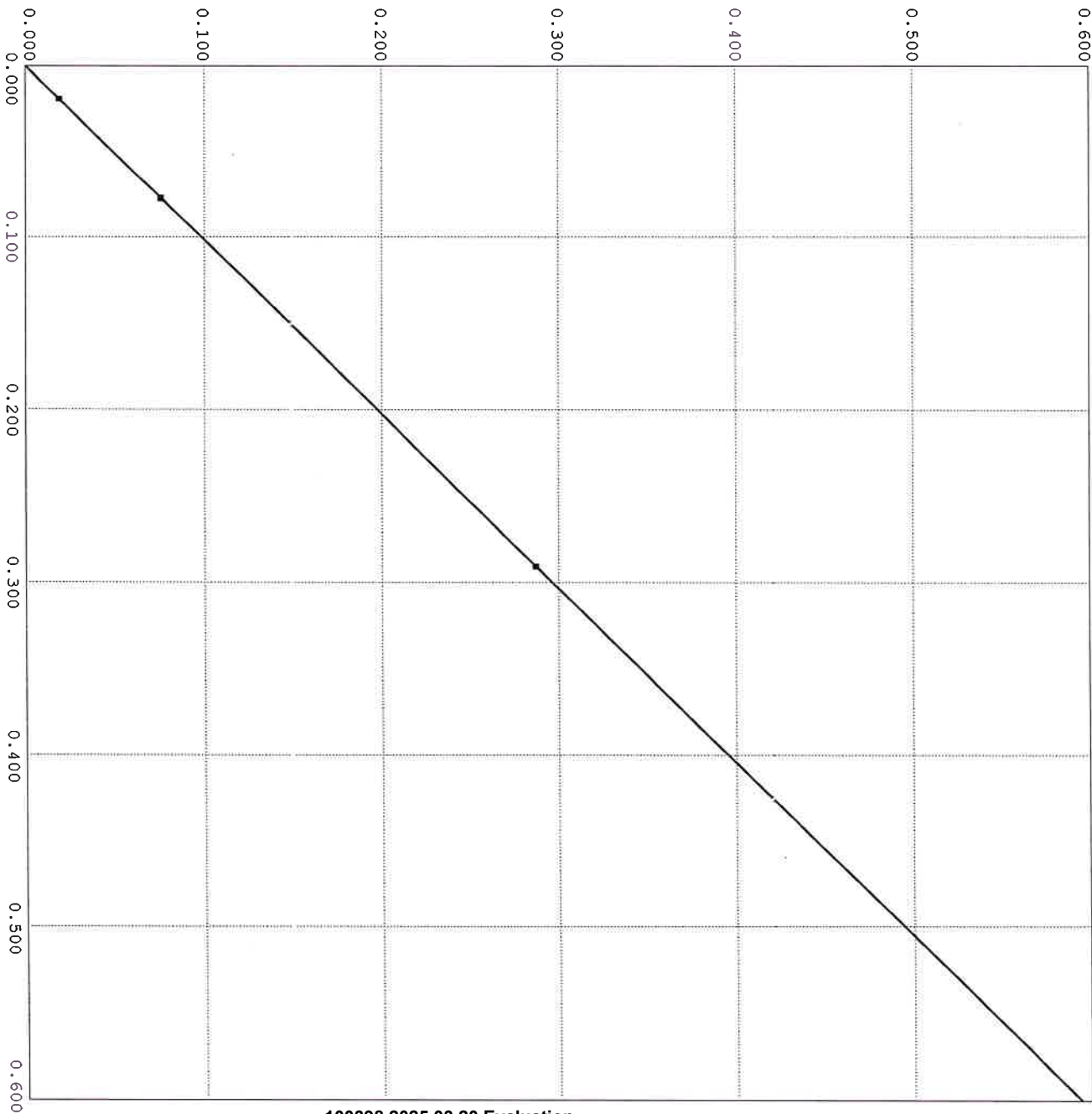
Alaska Department of Public Safety
 DATAMASTER dmt: 100398

Date: 03/20/2025
 Time: 13:48:30

SUPERVISOR NAME:
 KAIJA SWISHER
 OPERATOR'S #: 10746

TARGET	AVERAGE	STD. DEV.
0.019	0.0196	0.0005
0.077	0.0766	0.0005
0.290	0.2878	0.0004

SLOPE = 0.990176
 R² = 0.999998



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LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100398

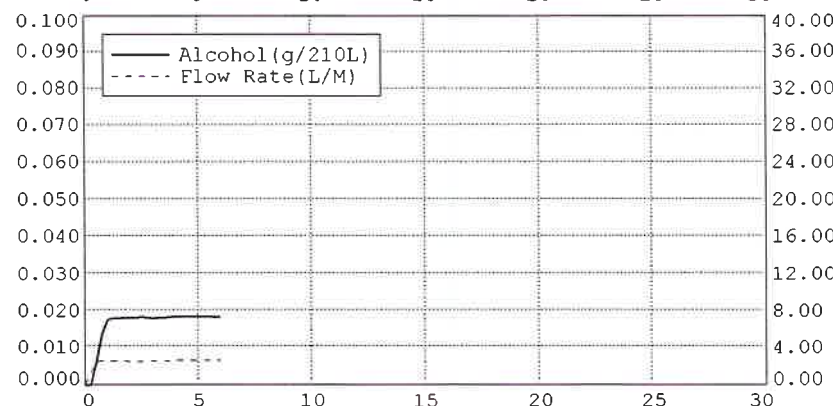
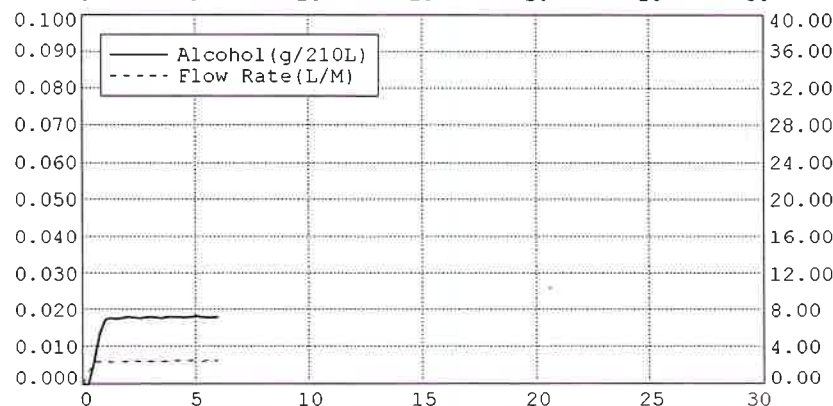
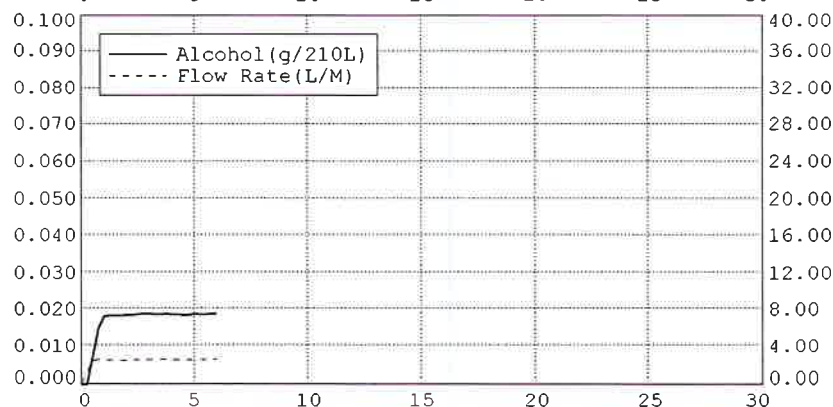
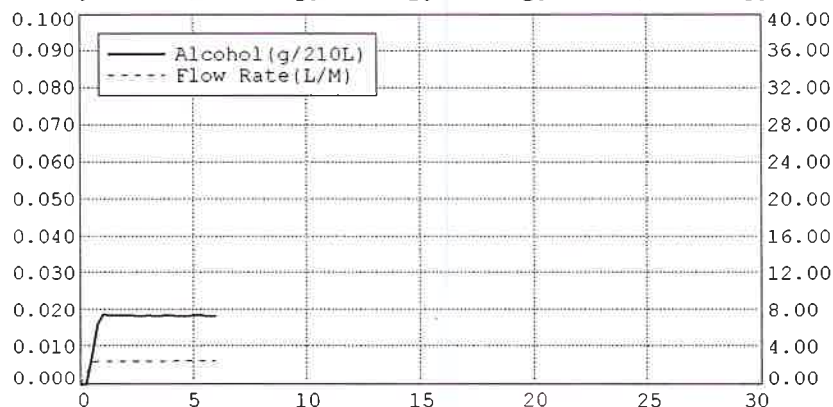
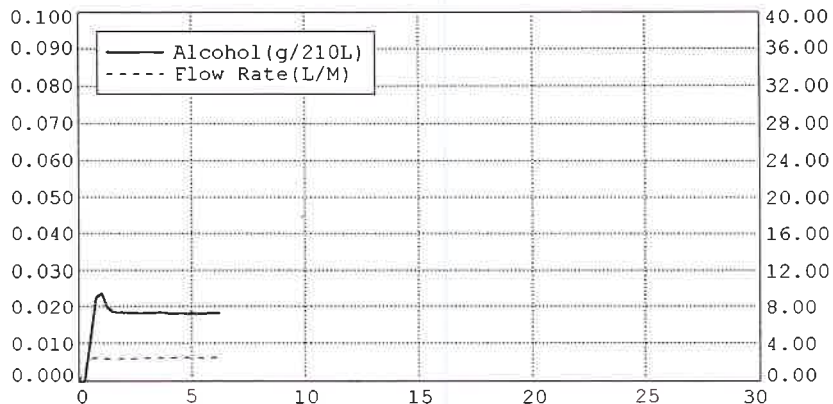
Date: 03/20/2025
Time: 13:48:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 28.96: 0.019
LOT #: AG408002
EXPIRATION: 03/20/2026
TANK PRESSURE: 429 psi

BLANK TEST	0.000	13:49
INTERNAL STANDARD	VERIFIED	13:50
EXTERNAL STANDARD	0.020	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.020	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.020	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.019	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.019	13:54
BLANK TEST	0.000	13:55

Average = 0.0196
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100398

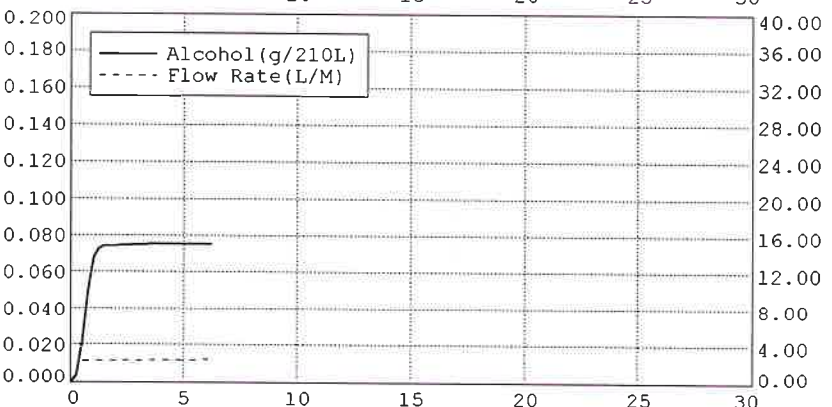
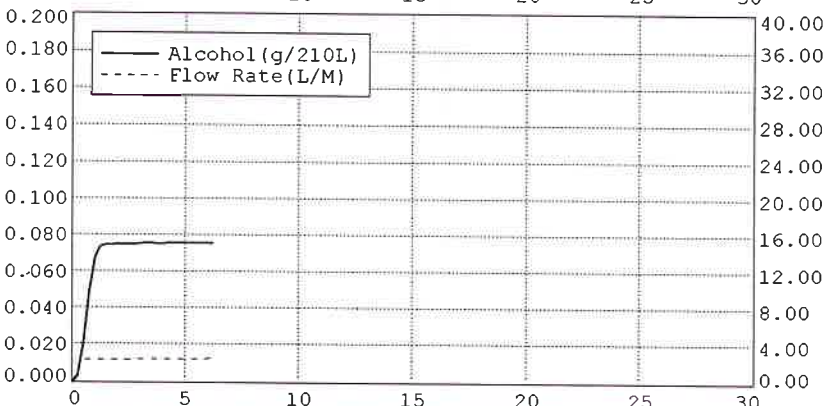
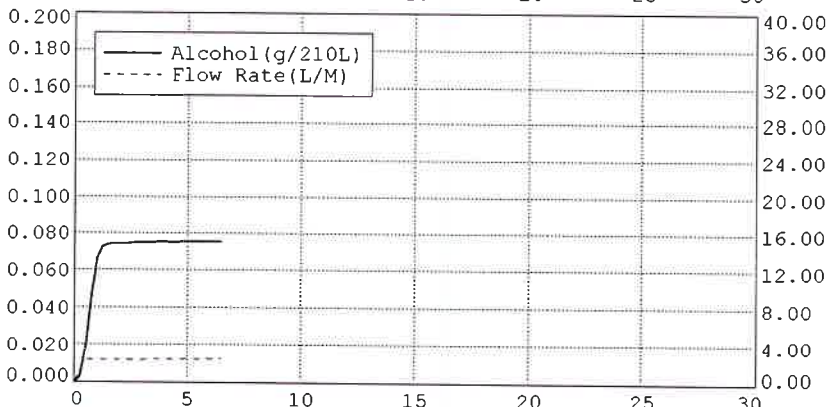
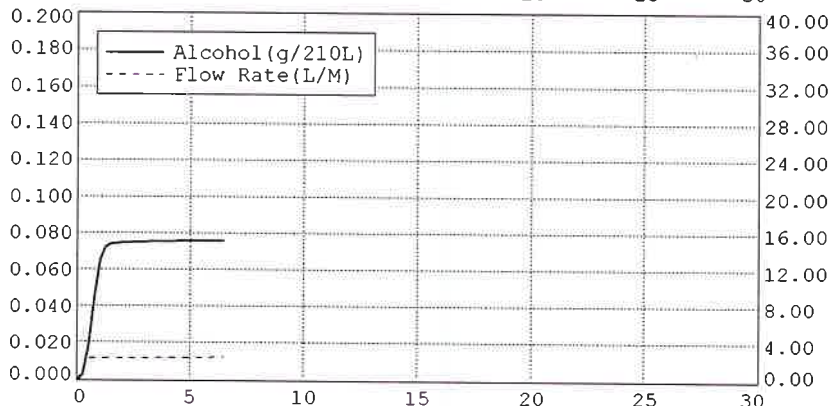
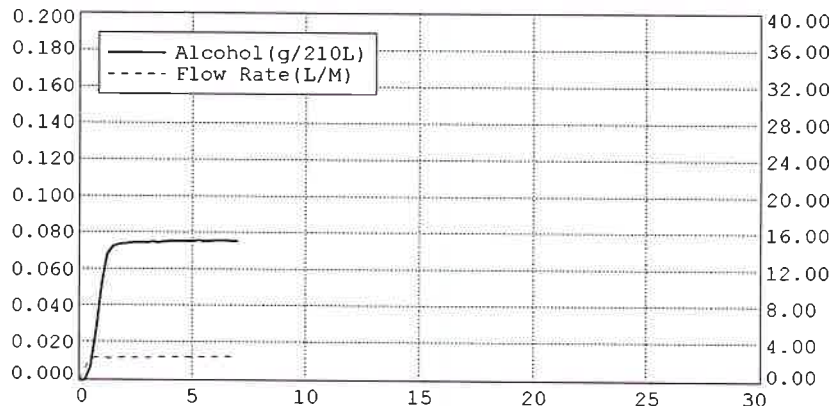
Date: 03/20/2025
Time: 13:56:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.96: 0.077
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 392 psi

BLANK TEST	0.000	13:57
INTERNAL STANDARD	VERIFIED	13:57
EXTERNAL STANDARD	0.076	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.077	13:59
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.077	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.077	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.076	14:02
BLANK TEST	0.000	14:03

Average = 0.0766
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100398

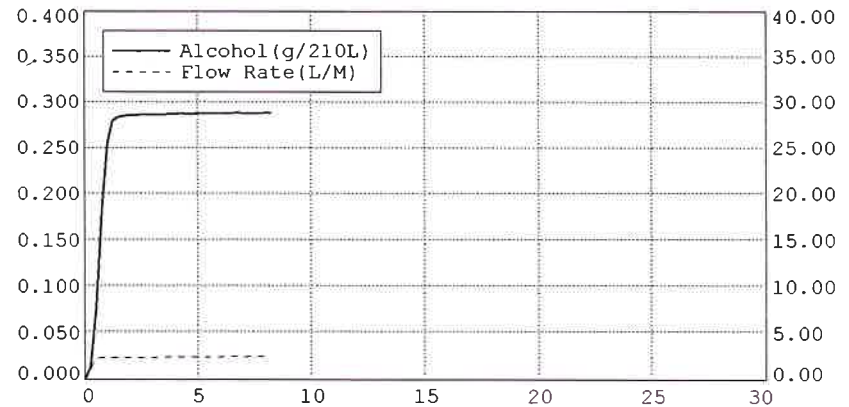
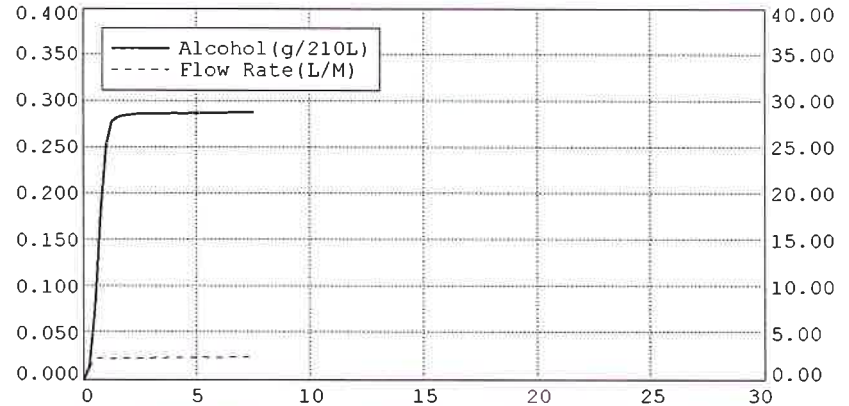
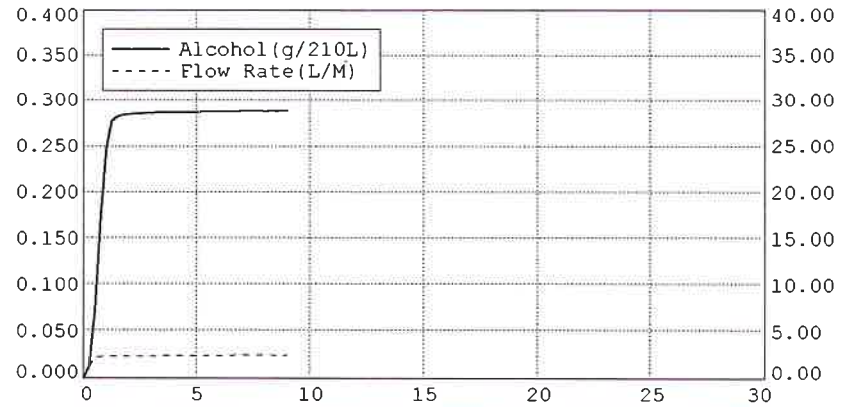
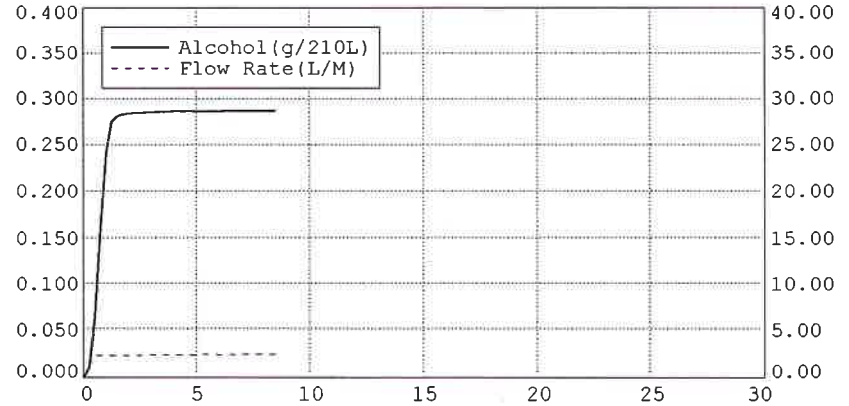
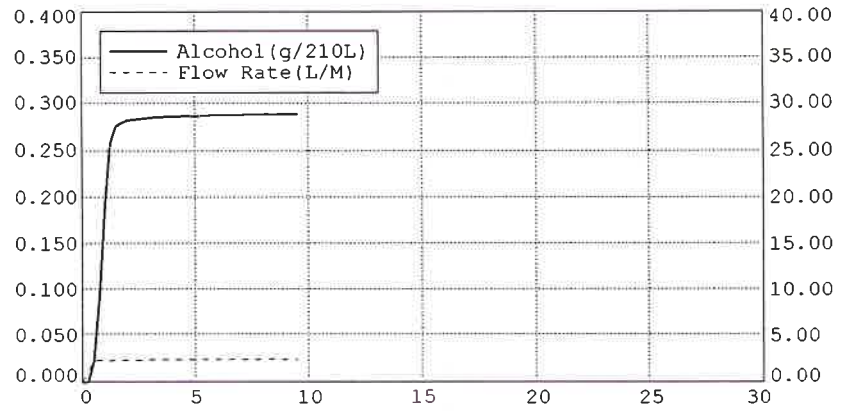
Date: 03/20/2025
Time: 14:04:43

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 28.96: 0.290
LOT #: AG427706
EXPIRATION: 10/03/2026
TANK PRESSURE: 284 psi

BLANK TEST	0.000	14:06
INTERNAL STANDARD	VERIFIED	14:06
EXTERNAL STANDARD	0.288	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.287	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.288	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.288	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.288	14:11
BLANK TEST	0.000	14:11

Average = 0.2878
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 03/20/2025
Time: 14:19:00

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 28.97: 0.077
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	14:21
BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:22
EXTERNAL STANDARD	0.077	14:22
BLANK TEST	0.000	14:23
SUBJECT SAMPLE (Vol=1.69L)	0.000	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.077	14:24
BLANK TEST	0.000	14:25

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