

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100381

Analyst/Technician(s): C. O'Bryant

Start Date: 6/23/25

Date Instrument Received: 6/23/25

Reason for instrument evaluation

Drifting detector voltage on graph with low or no breath flow rate.

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): 29.64 Temperature (C): 21.9 Relative Humidity (%): 42

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

Notes: unable to recreate drift during as found
dry gas or non-drinking subject testing.
Linearity slope - 0.963
Recommending repair to update controller board +
continue troubleshooting.

- Attach Non-Drinking Subject Test

Conclusion:

- Ready for Adjustment
- Needs Repair
- Ready for Calibration

Lab Work End Date: 6/24/25

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100381

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/23/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 131 psi

BLANK TEST	0.000	12:37
INTERNAL STANDARD	VERIFIED	12:37
Xq = 0.093	(1.53%)	
EXTERNAL STANDARD	0.076	12:38
X[1] = 0.0762	(-0.0014) (0.0009)	
BLANK TEST	0.000	12:38
EXTERNAL STANDARD	0.075	12:39
X[1] = 0.0755	(-0.0018) (0.0005)	
BLANK TEST	0.000	12:40
EXTERNAL STANDARD	0.075	12:40
X[1] = 0.0755	(-0.0017) (0.0005)	
BLANK TEST	0.000	12:41
EXTERNAL STANDARD	0.076	12:41
X[1] = 0.0756	(-0.0019) (0.0007)	
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.076	12:42
X[1] = 0.0764	(-0.0016) (0.0004)	
BLANK TEST	0.000	12:43

Average = 0.0756
Std Dev = 0.0005

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 = 1.67 V PASSED
(1.02 V - 2.38 V)
Cooler Voltage = 1.68 V PASSED
(0.97 V - 2.27 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 545 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.745 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 = 0.092 (0.77%) (0.00% - 4.00%) PASSED

LINEARITY CHECK

Alaska Department of Public Safety

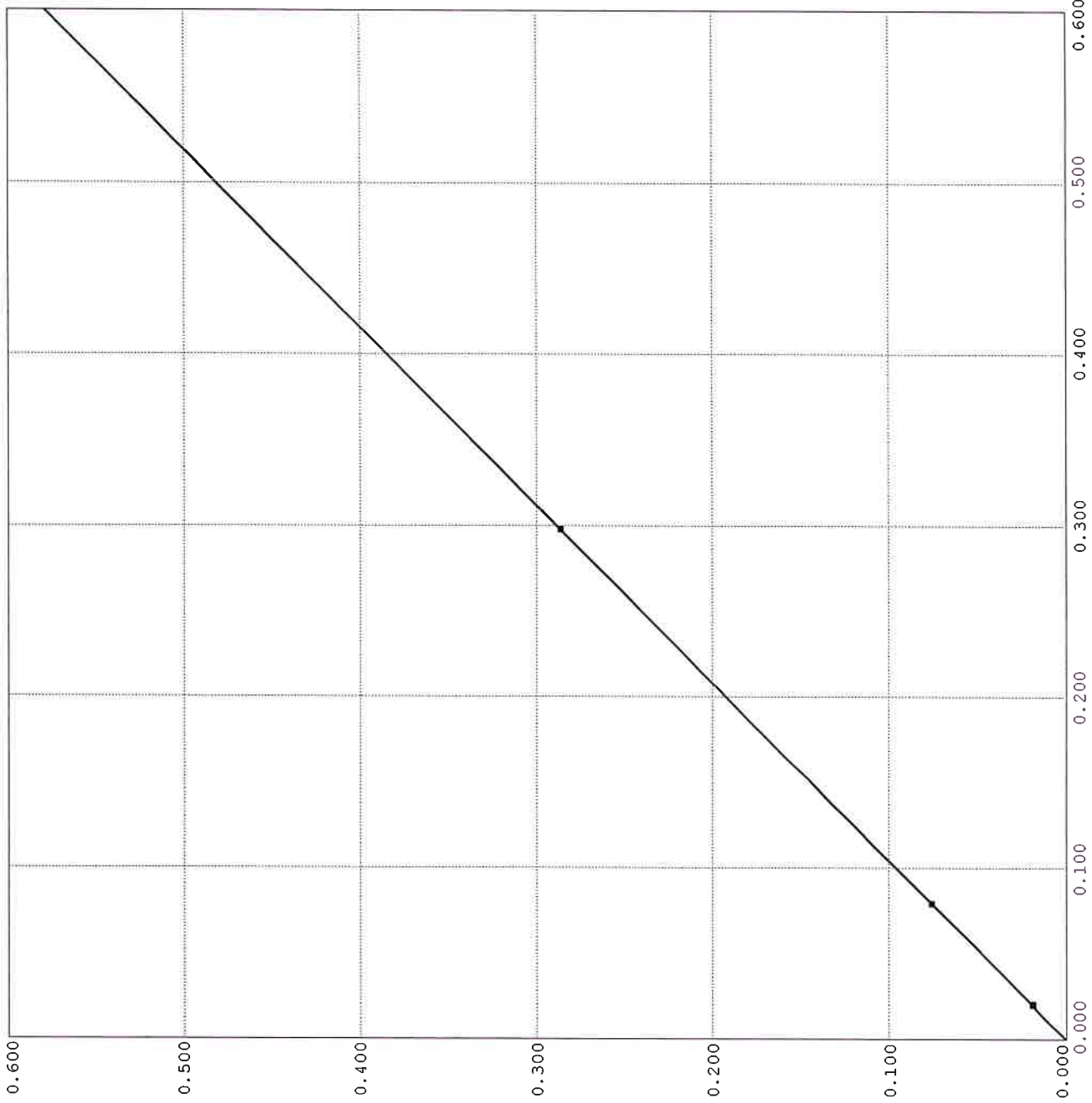
DATAMASTER dmt: 100381

Date: 06/24/2025
Time: 07:37:59

SUPERVISOR NAME:
COLLEEN S OBRyant
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0196	0.0005
0.079	0.0768	0.0004
0.297	0.2870	0.0000

SLOPE = 0.965038
R² = 0.999999



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100381

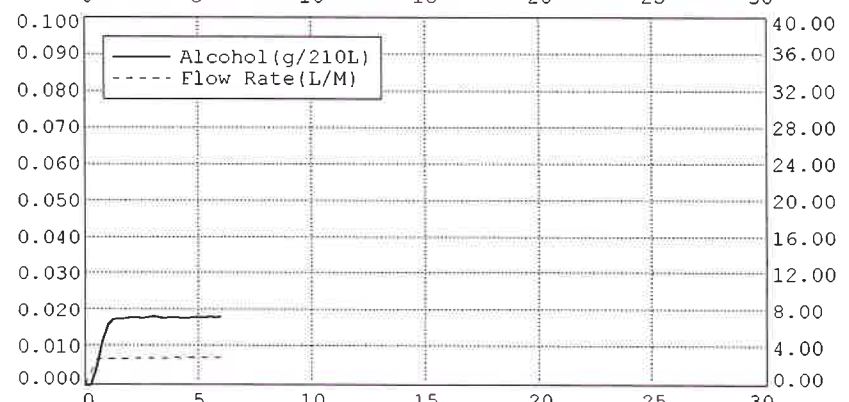
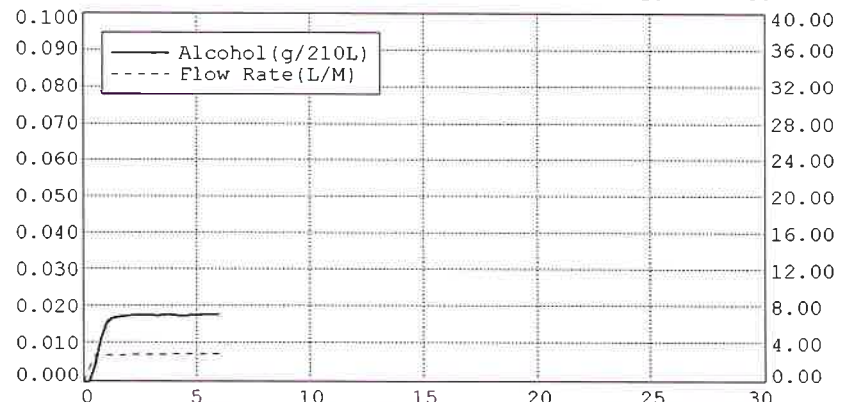
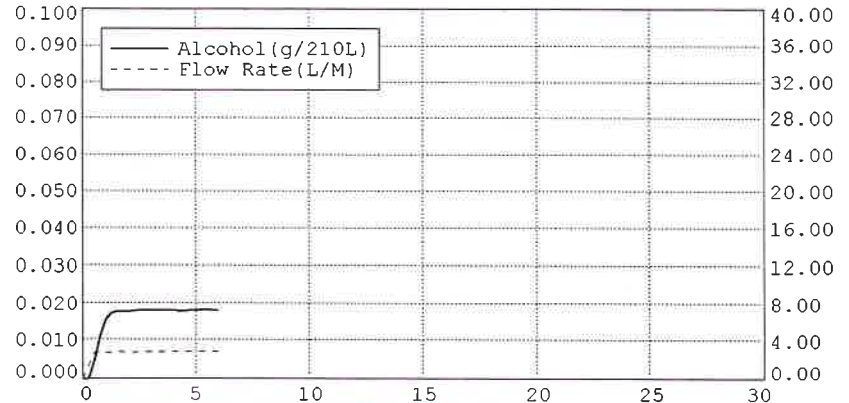
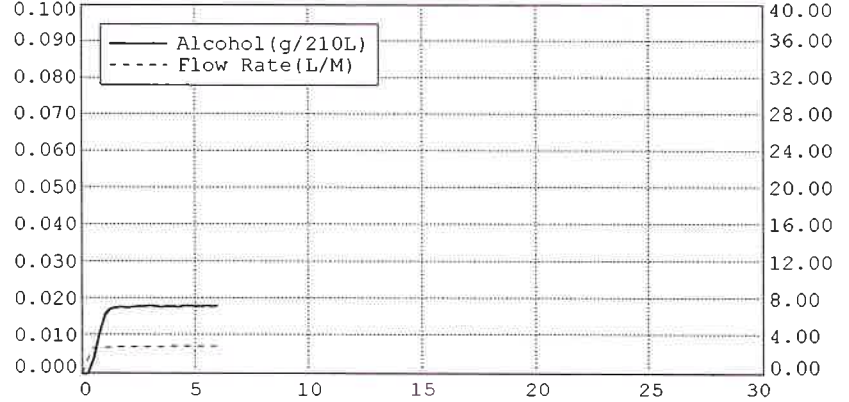
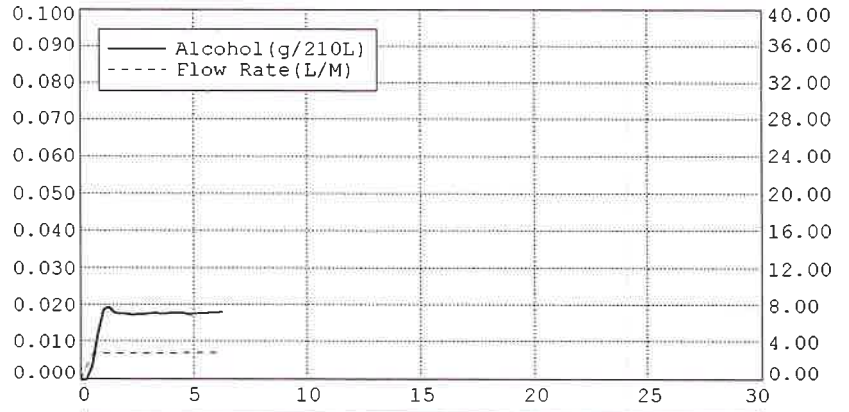
Date: 06/24/2025
Time: 07:38:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.60: 0.020
LOT #: AG408002
EXPIRATION: 03/20/2026
TANK PRESSURE: 744 psi

BLANK TEST	0.000	07:39
INTERNAL STANDARD	VERIFIED	07:39
EXTERNAL STANDARD	0.019	07:39
BLANK TEST	0.000	07:40
EXTERNAL STANDARD	0.020	07:40
BLANK TEST	0.000	07:41
EXTERNAL STANDARD	0.020	07:41
BLANK TEST	0.000	07:42
EXTERNAL STANDARD	0.019	07:42
BLANK TEST	0.000	07:43
EXTERNAL STANDARD	0.020	07:43
BLANK TEST	0.000	07:44

Average = 0.0196
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100381

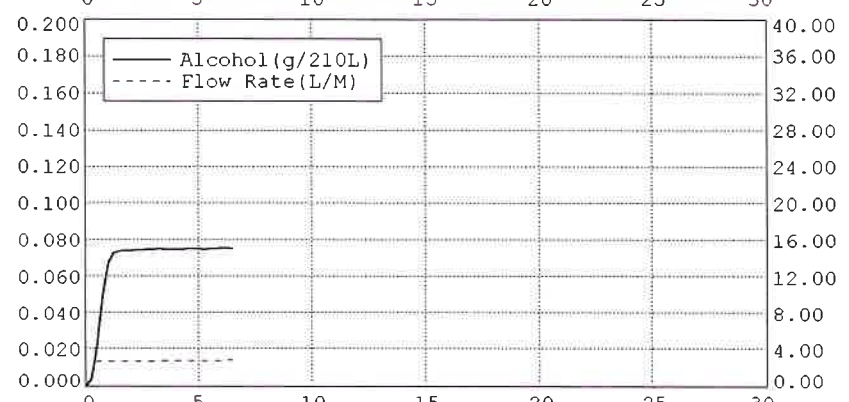
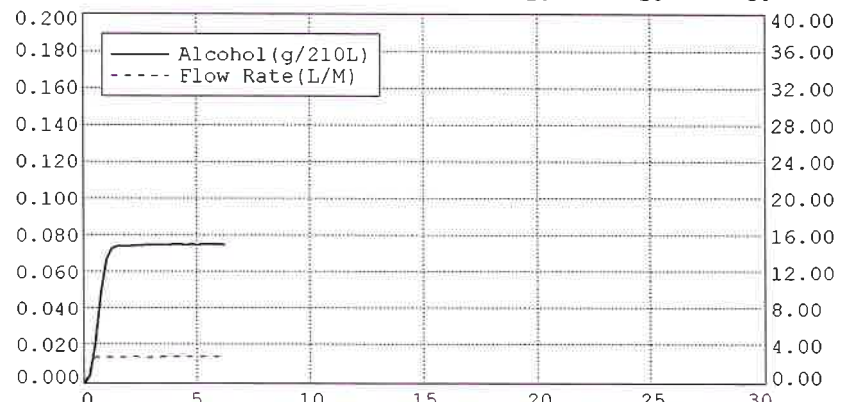
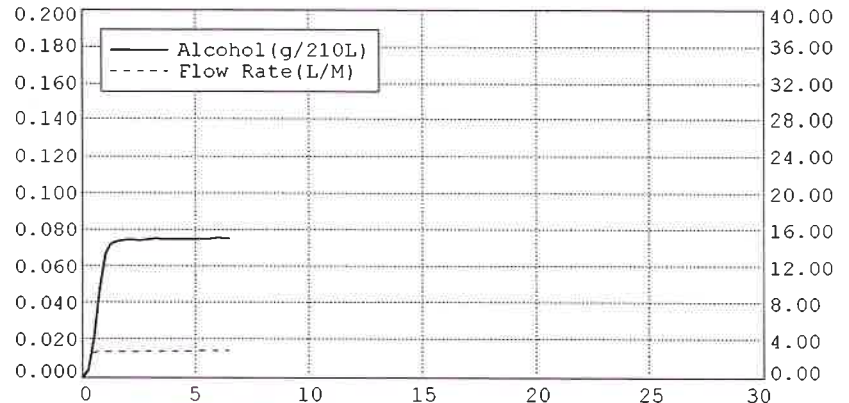
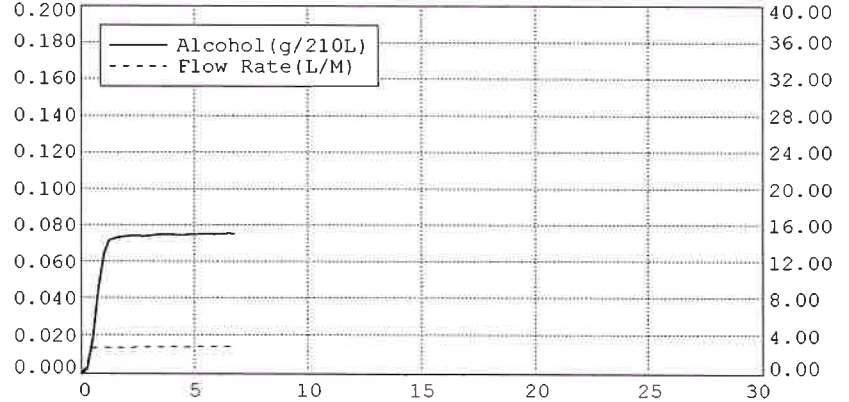
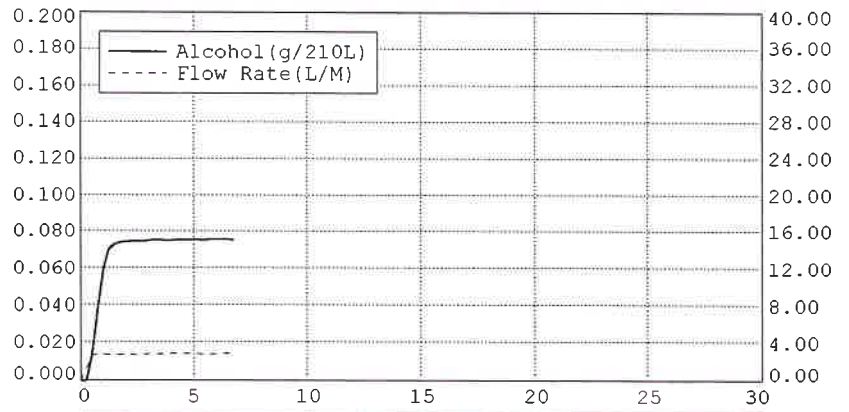
Date: 06/24/2025
Time: 07:53:33

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 587 psi

BLANK TEST	0.000	07:54
INTERNAL STANDARD	VERIFIED	07:55
EXTERNAL STANDARD	0.077	07:55
BLANK TEST	0.000	07:56
EXTERNAL STANDARD	0.076	07:56
BLANK TEST	0.000	07:57
EXTERNAL STANDARD	0.077	07:57
BLANK TEST	0.000	07:58
EXTERNAL STANDARD	0.077	07:58
BLANK TEST	0.000	07:59
EXTERNAL STANDARD	0.077	07:59
BLANK TEST	0.000	08:00

Average = 0.0768
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100381

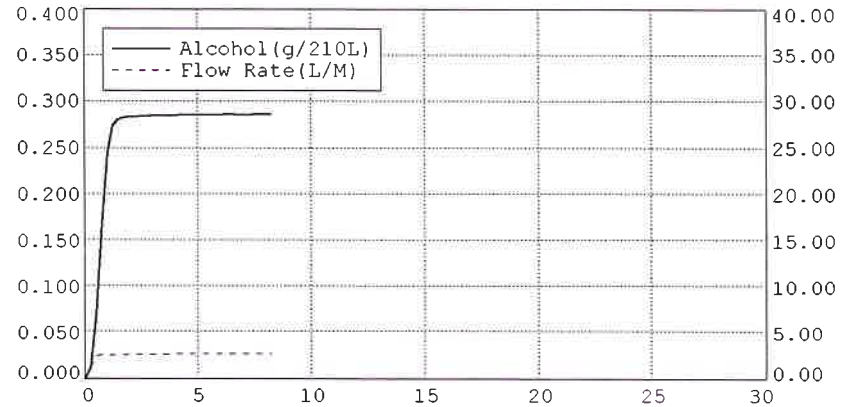
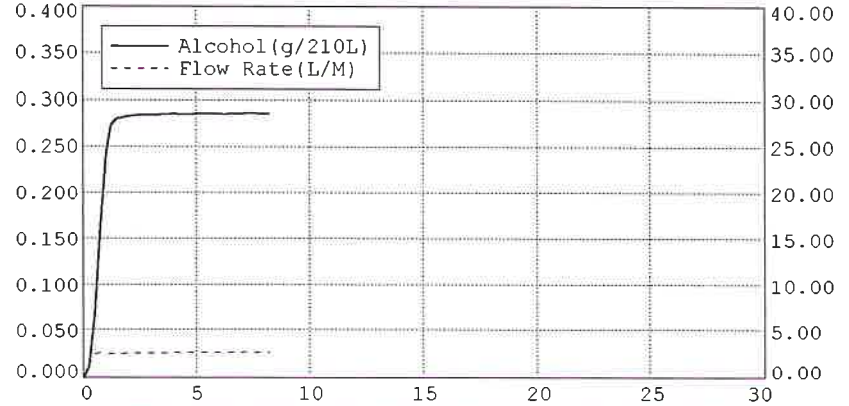
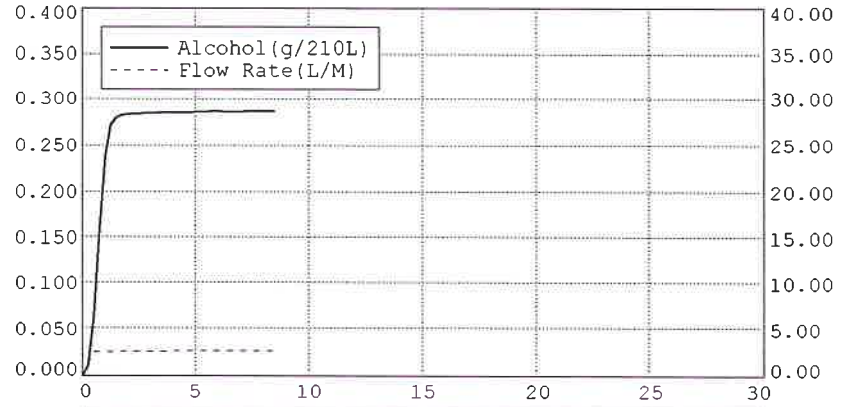
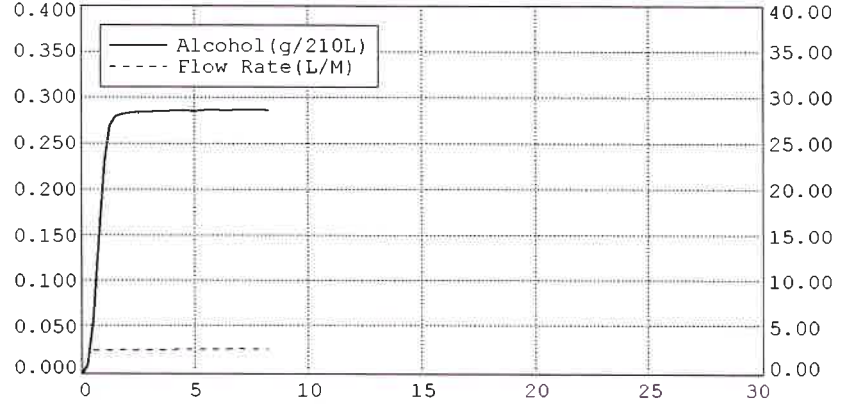
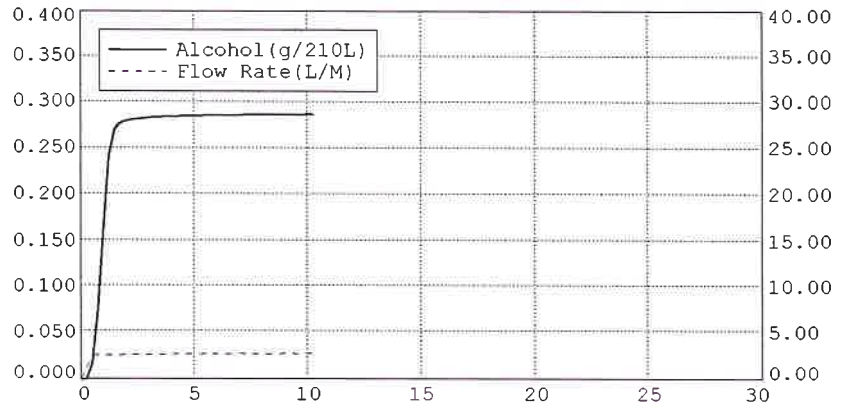
Date: 06/24/2025
Time: 08:01:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.59: 0.297
LOT #: AG427706
EXPIRATION: 10/03/2026
TANK PRESSURE: 302 psi

BLANK TEST	0.000	08:02
INTERNAL STANDARD	VERIFIED	08:02
EXTERNAL STANDARD	0.287	08:03
BLANK TEST	0.000	08:04
EXTERNAL STANDARD	0.287	08:04
BLANK TEST	0.000	08:05
EXTERNAL STANDARD	0.287	08:05
BLANK TEST	0.000	08:06
EXTERNAL STANDARD	0.287	08:06
BLANK TEST	0.000	08:07
EXTERNAL STANDARD	0.287	08:07
BLANK TEST	0.000	08:08

Average = 0.2870
Std Dev = 0.0000



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100381

Date: 06/24/2025
Time: 08:12:34

SUBJECT NAME:
TEST TEST
LICENSE #: NDST

OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1
CASE/REPORT: 25-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	08:13
BLANK TEST	0.000	08:13
INTERNAL STANDARD	VERIFIED	08:13
EXTERNAL STANDARD	0.077	08:14
BLANK TEST	0.000	08:14
SUBJECT SAMPLE (Vol=1.61L)	0.000	08:15
BLANK TEST	0.000	08:16
EXTERNAL STANDARD	0.078	08:16
BLANK TEST	0.000	08:17

