

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100687

Analyst(s): Carlie Glaister

Start Date: 11/30/23

Date Received: 11/30/23

Reason for instrument evaluation

Internal standard errors

Visual Inspection

- Clean
- Cermatex Box (modem) is secure
- Double Check Valve secured to wall
- O-ring inspection and ensure 2 replacement O-rings in bag
- Replace missing screws
- Ensure modem cable present
- All tubing and connections secure

As Found Conditions:

Barometric Pressure (inHg): 29.84 Temperature (C): 22.5 Relative Humidity (%) 20

Linearity Test (attached)

0.020g/210L Mnf: Airgas Lot: AG-217902 Exp: 6/28/24

0.080g/210L Mnf: Airgas Lot: AG-310901 Exp: 4/19/25

0.300g/210L Mnf: Airgas Lot: AG-217903 Exp: 6/28/24

Notes

Replaced o-ring. History of internal standard errors after refurbishment (100687 2021.02.23 Check In). Clean internal standard. Reset options.

- VOC (attached)
- VOC Internal Standard value $\leq 3.00\%$
- Verify software version
- Non-Drinking Subject Test (attached)

Condition of item: Good Needs Repair

- Ready for Adjustment
- Ready for Calibration

End Date: 11/30/23

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

 Alaska Department of Public Safety
 DATAMASTER dmt: 100687

Date: 11/30/2023
 Time: 10:06:43

SUPERVISOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

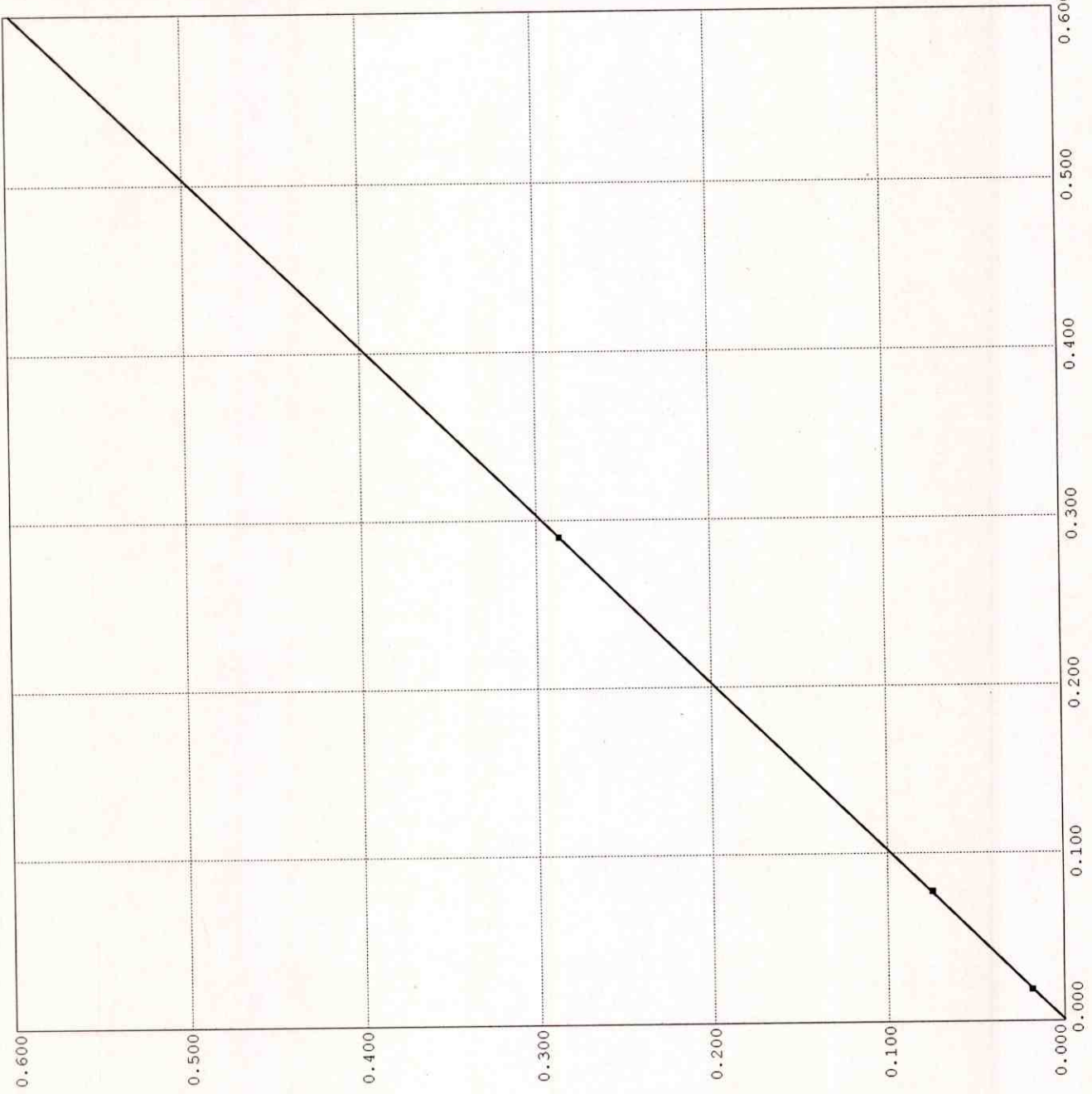
TARGET	AVERAGE	STD. DEV.
0.019	0.0190	0.0000
0.077	0.0754	0.0005
0.289	0.2876	0.0005

SLOPE = 0.996466
 R² = 0.999975

100687 2023.11.30 Evaluation

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CVG



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100687

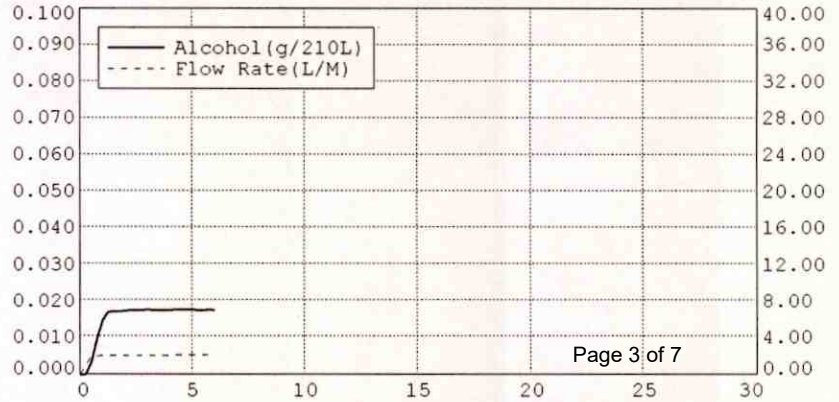
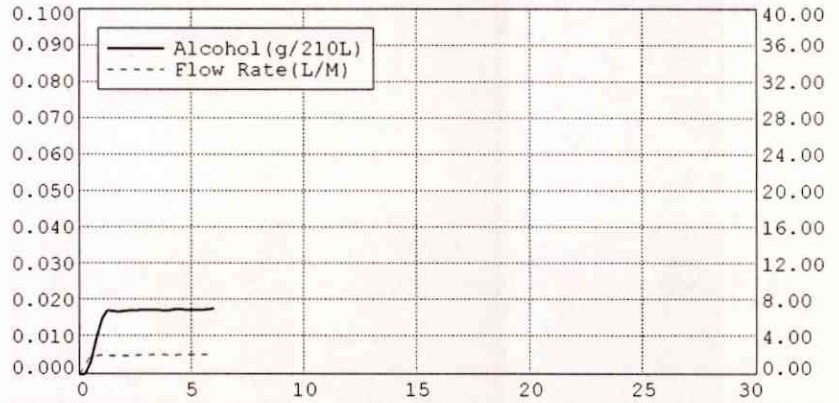
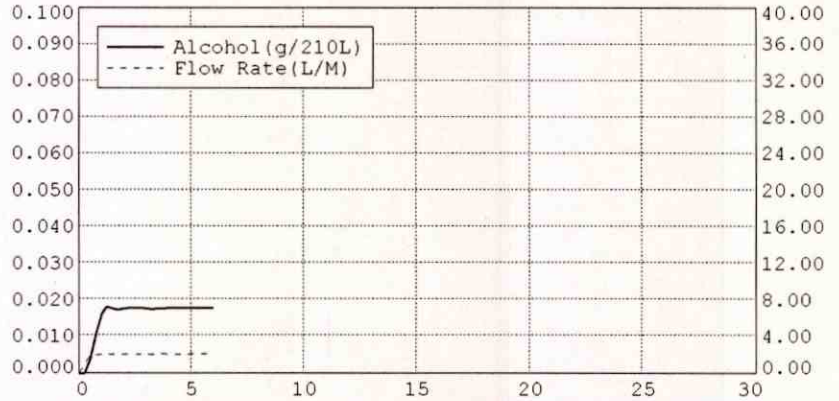
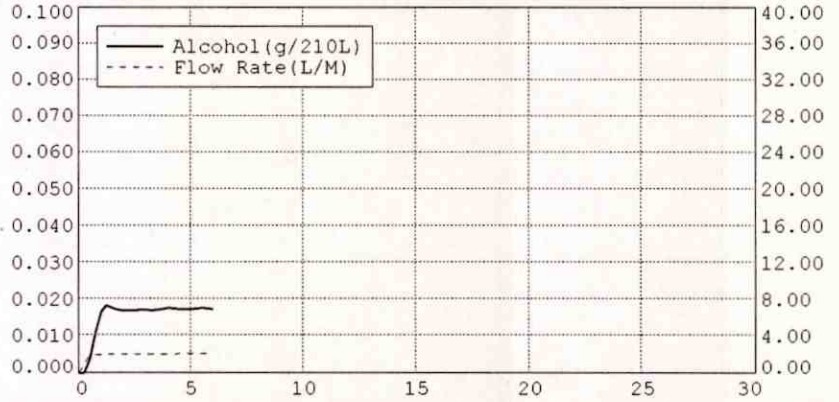
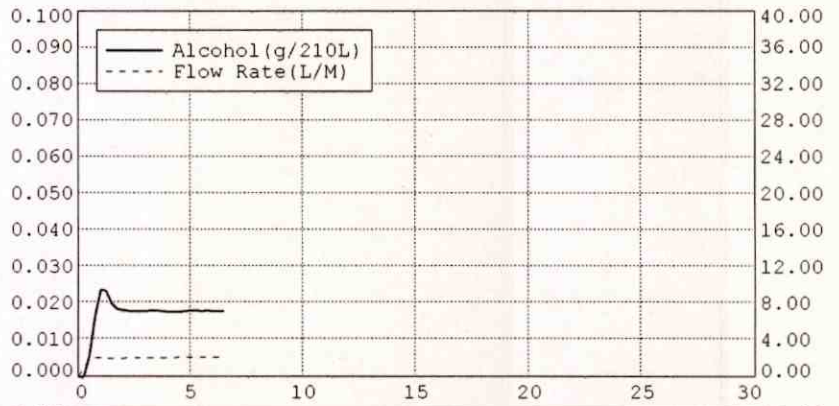
Date: 11/30/2023
Time: 10:06:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 28.82: 0.019
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 718 psi

BLANK TEST	0.000	10:07
INTERNAL STANDARD	VERIFIED	10:08
EXTERNAL STANDARD	0.019	10:08
BLANK TEST	0.000	10:09
EXTERNAL STANDARD	0.019	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.019	10:10
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.019	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.019	10:12
BLANK TEST	0.000	10:13

Average = 0.0190
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100687

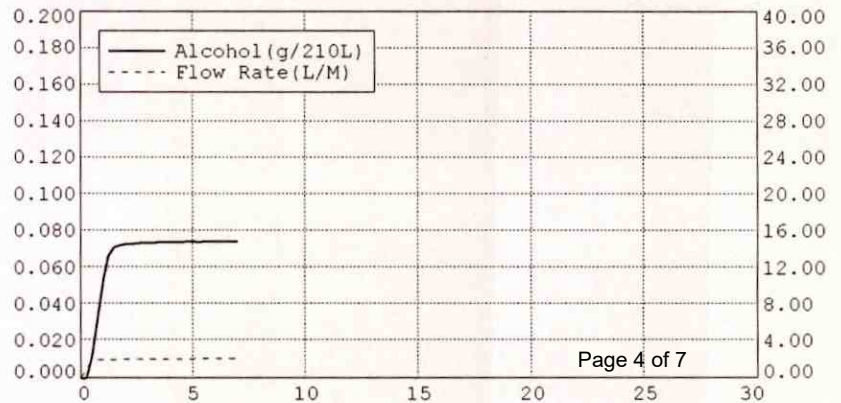
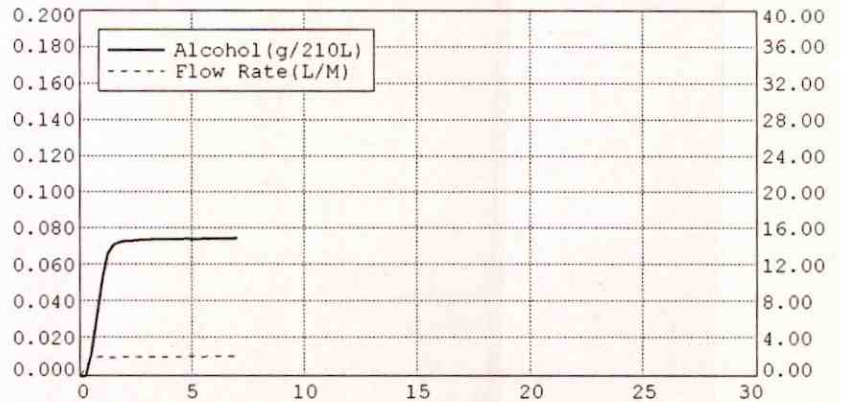
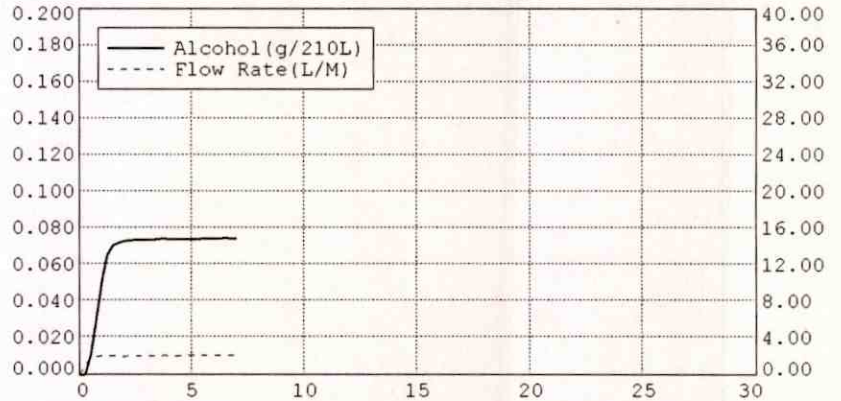
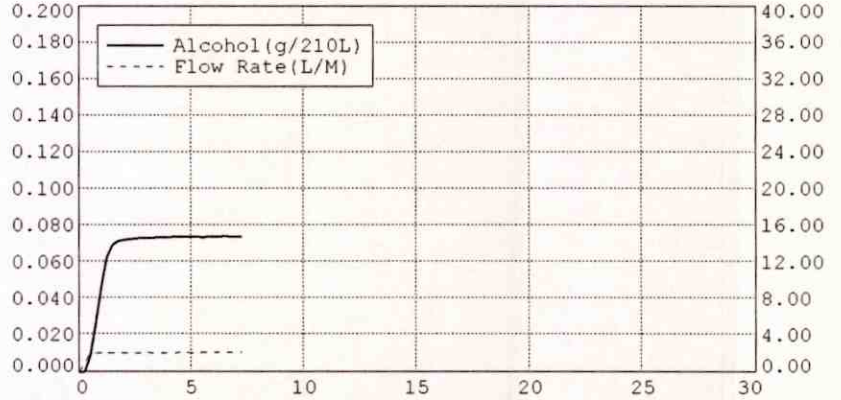
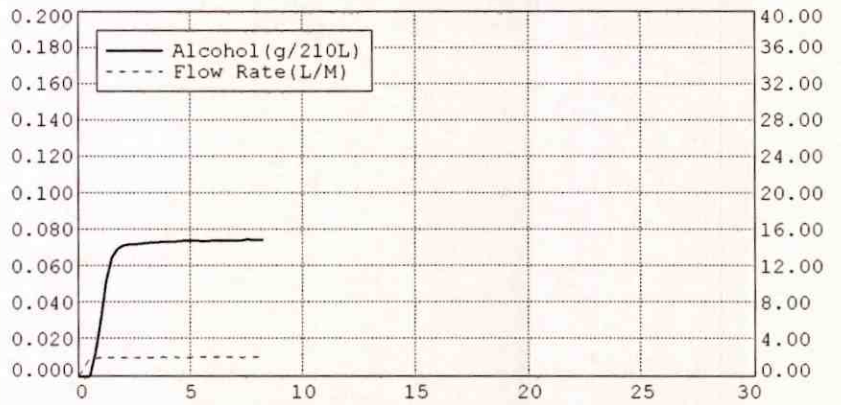
Date: 11/30/2023
 Time: 10:31:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 28.83: 0.077
 LOT #: AG310901
 EXPIRATION: 04/19/2025
 TANK PRESSURE: 743 psi

BLANK TEST	0.000	10:32
INTERNAL STANDARD	VERIFIED	10:32
EXTERNAL STANDARD	0.075	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.075	10:33
BLANK TEST	0.000	10:34
EXTERNAL STANDARD	0.076	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.076	10:36
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.075	10:37
BLANK TEST	0.000	10:38

Average = 0.0754
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100687

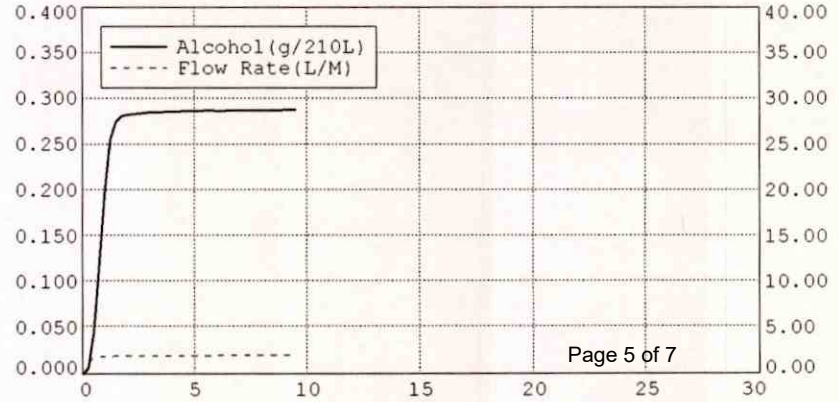
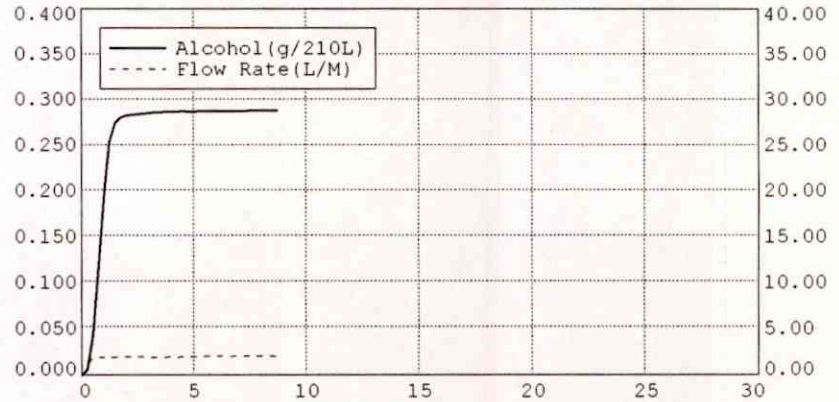
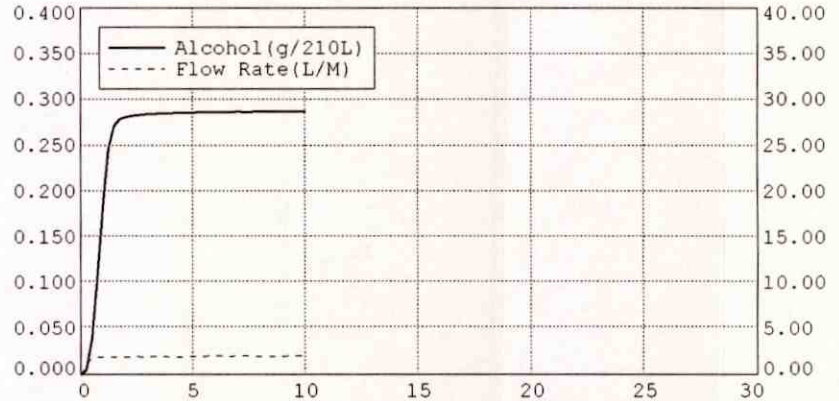
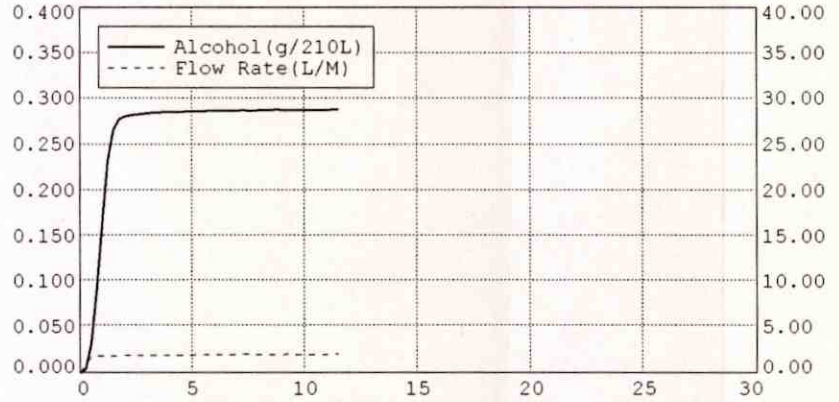
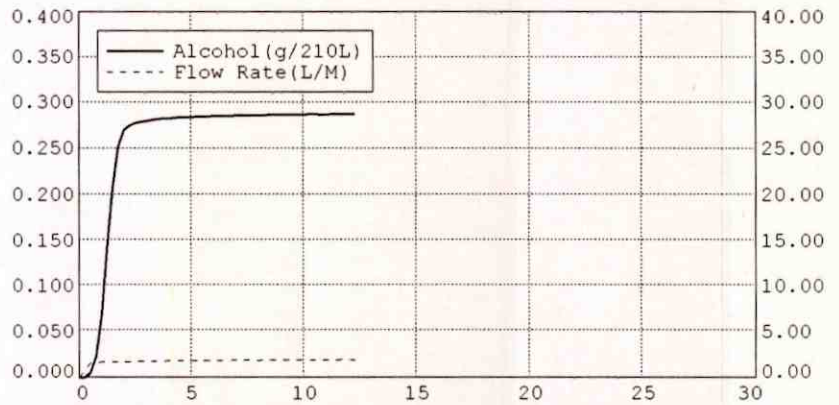
Date: 11/30/2023
 Time: 10:38:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 28.83: 0.289
 LOT #: AG217903
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 260 psi

BLANK TEST	0.000	10:40
INTERNAL STANDARD	VERIFIED	10:40
EXTERNAL STANDARD	0.287	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.288	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.287	10:43
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.288	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.288	10:45
BLANK TEST	0.000	10:46

Average = 0.2876
 Std Dev = 0.0005



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100687

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/30/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.83: 0.077
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 763 psi

BLANK TEST	0.000	09:54
INTERNAL STANDARD	VERIFIED	09:54
Xq = 0.087 (1.74%)		
EXTERNAL STANDARD	0.076	09:54
X[1] = 0.0758 (-0.0022) (-0.0005)		
BLANK TEST	0.000	09:55
EXTERNAL STANDARD	0.075	09:55
X[1] = 0.0752 (-0.0022) (-0.0001)		
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.075	09:57
X[1] = 0.0754 (-0.0021) (-0.0003)		
BLANK TEST	0.000	09:57
EXTERNAL STANDARD	0.076	09:58
X[1] = 0.0756 (-0.0016) (0.0000)		
BLANK TEST	0.000	09:59
EXTERNAL STANDARD	0.076	09:59
X[1] = 0.0756 (-0.0021) (-0.0007)		
BLANK TEST	0.000	10:00

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 = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.5°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.56 V	PASSED
(0.94 V - 2.18 V)	
Cooler Voltage = 1.56 V	PASSED
(0.94 V - 2.18 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 528 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 28.8 in	

PUMP INFO

Flow Rate = 4.377 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

Xq = 0.086 0.72%	PASSED
(0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100687

Date: 11/30/2023
Time: 11:20:32

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.83: 0.077
LOT #: AG310901
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	11:21
BLANK TEST	0.000	11:21
INTERNAL STANDARD	VERIFIED	11:21
INTERNAL STANDARD	0.076	11:22
BLANK TEST	0.000	11:23
SUBJECT SAMPLE (Vol=2.66L)	0.000	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.076	11:24
BLANK TEST	0.000	11:25

CXG

