

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100368

Analyst(s): Carlisle Haister

Start Date: 11/6/23

Date Received: 10/23/23

Reason for instrument evaluation

Preventative maintenance

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

As Found Conditions:

Barometric Pressure (inHg): 29.13 Temperature (C): 22.7 Relative Humidity (%): 24

Linearity Test (attached)

0.020g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-217902</u>	Exp: <u>6/28/24</u>
0.080g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-310901</u>	Exp: <u>4/19/25</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-217903</u>	Exp: <u>6/28/24</u>

Notes

Replaced O-ring As found passed, recommending adjustment due to 0.080 & 0.300 standards reading close to 5%.

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

Condition of item: Good Needs Repair

- Ready for Adjustment
- Ready for Calibration

End Date: 11/6/23

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

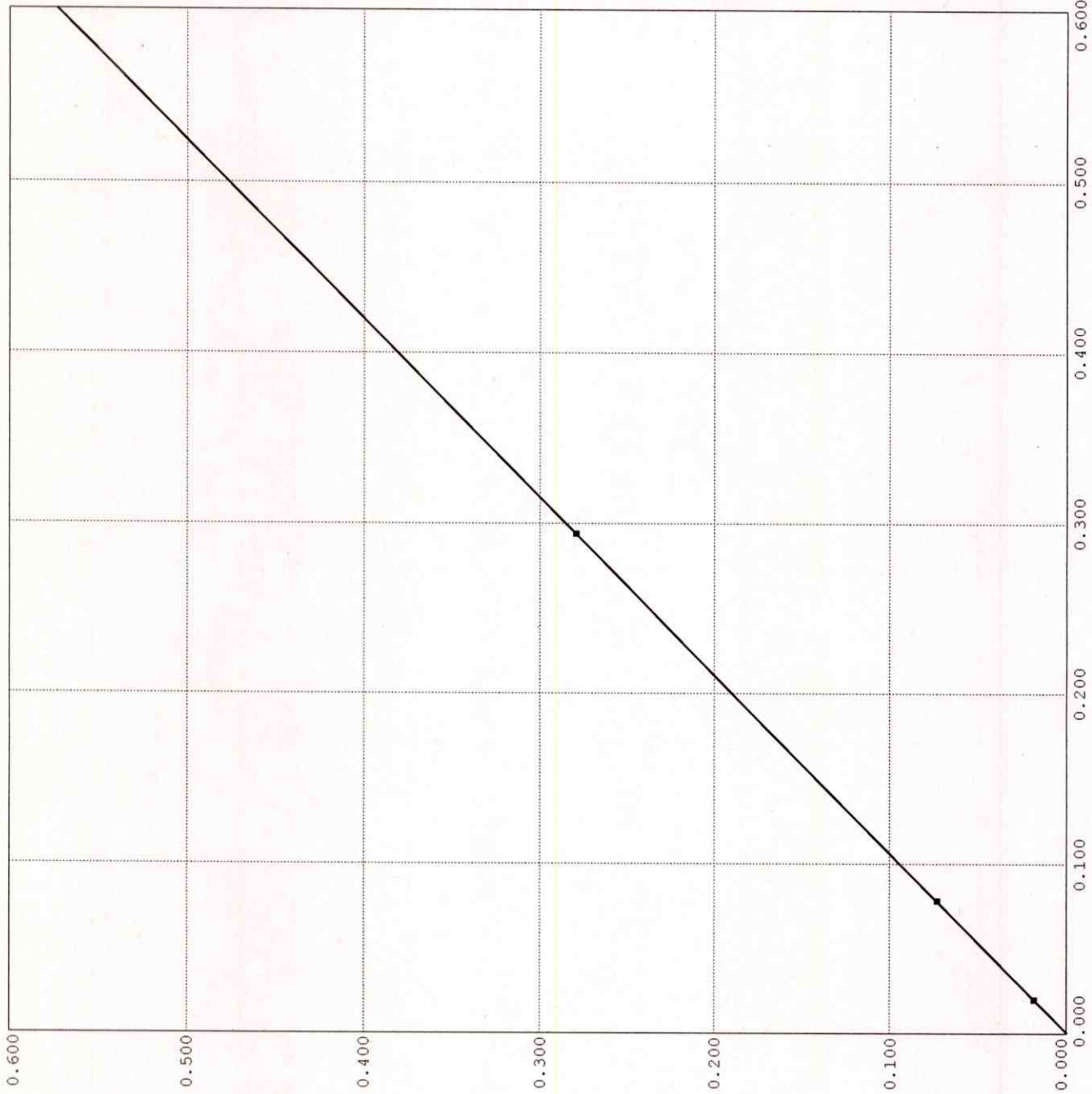
 Alaska Department of Public Safety
 DATAMASTER dmt: 100368

Date: 11/06/2023
 Time: 10:38:33

SUPERVISOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.020	0.0190	0.0000
0.078	0.0740	0.0000
0.293	0.2800	0.0007

SLOPE = 0.956614
 R² = 0.999997



CKG

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100368

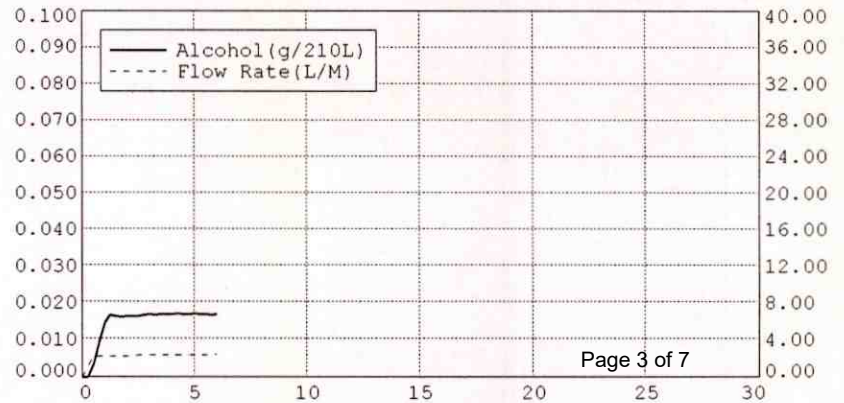
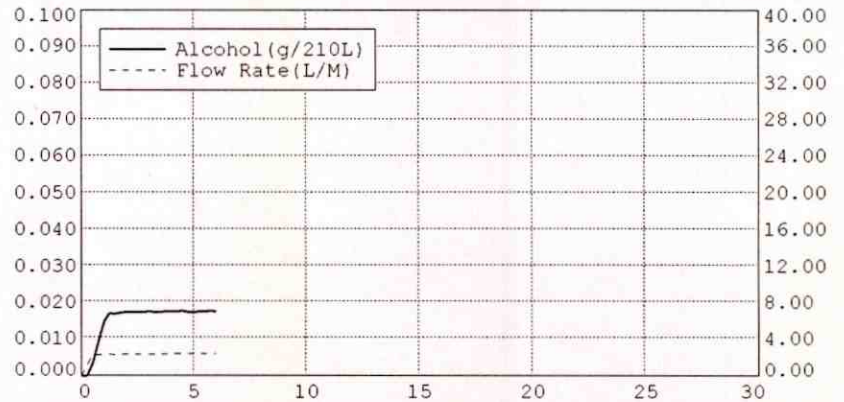
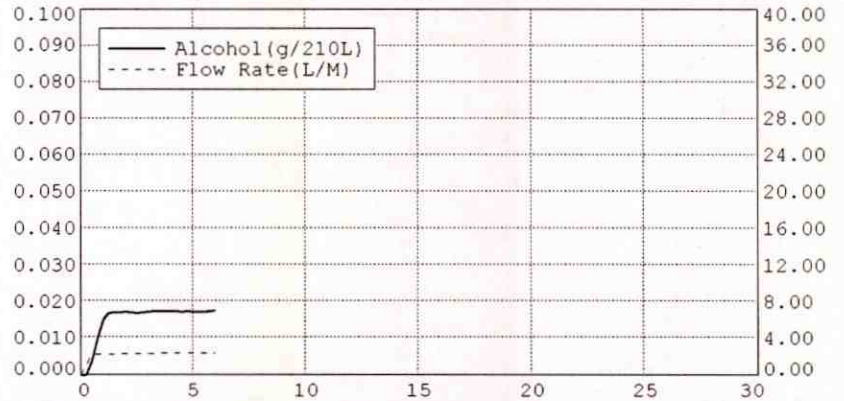
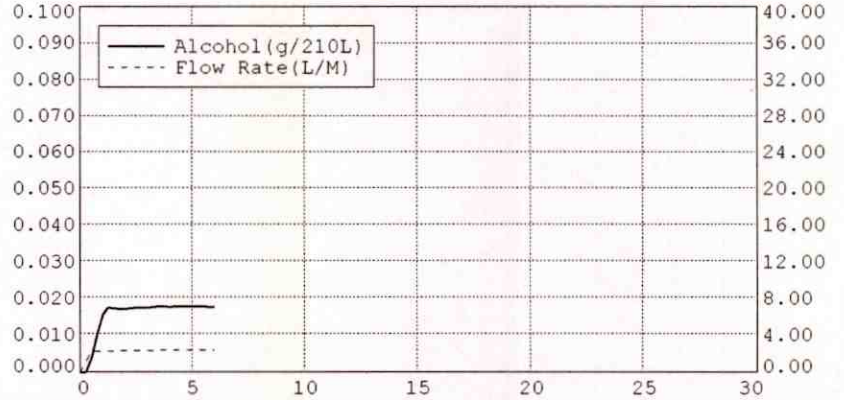
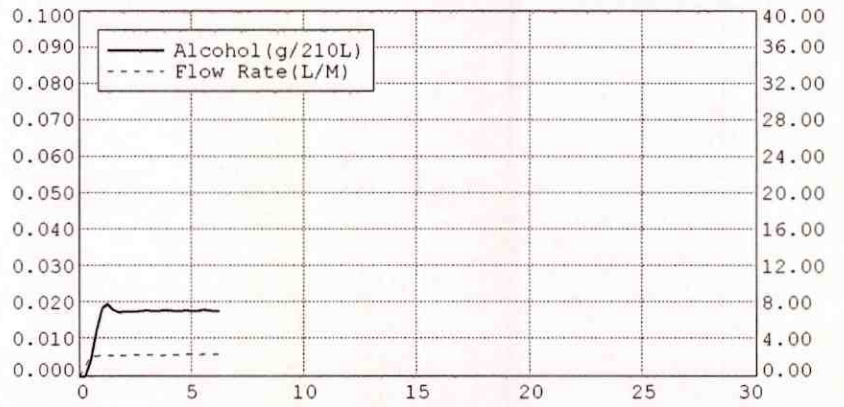
Date: 11/06/2023
 Time: 10:38:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.17: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 780 psi

BLANK TEST	0.000	10:39
INTERNAL STANDARD	VERIFIED	10:40
EXTERNAL STANDARD	0.019	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.019	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.019	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.019	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.019	10:44
BLANK TEST	0.000	10:45

Average = 0.0190
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100368

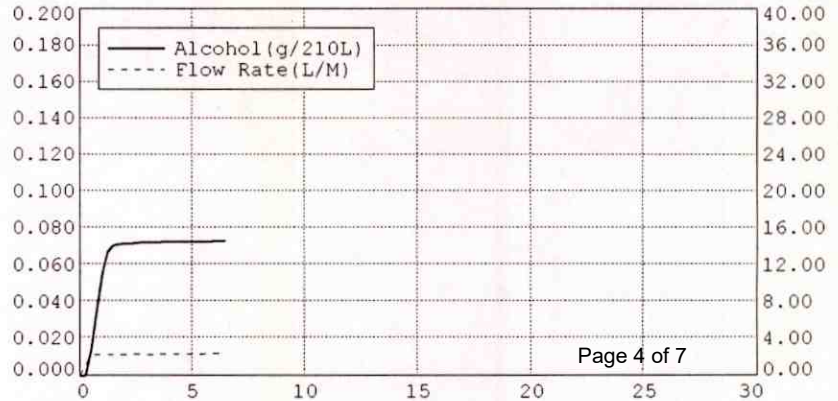
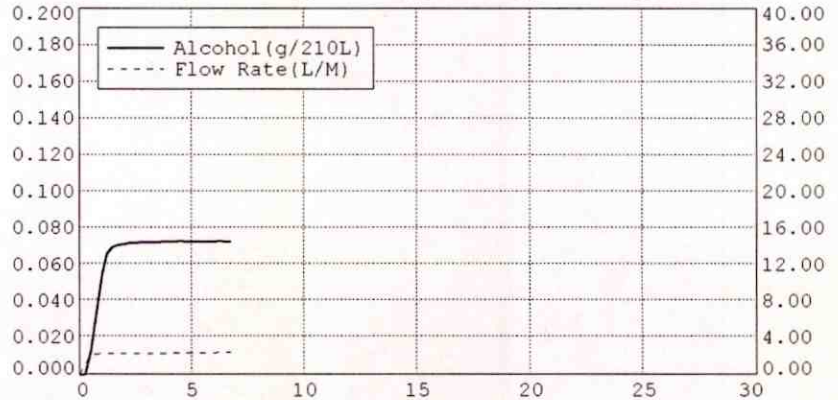
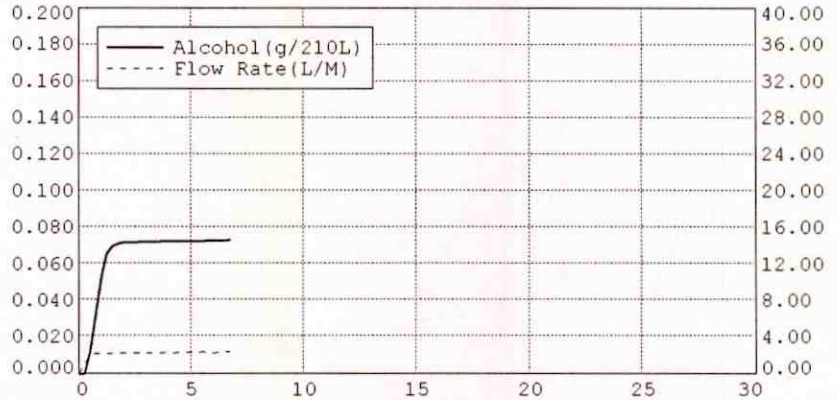
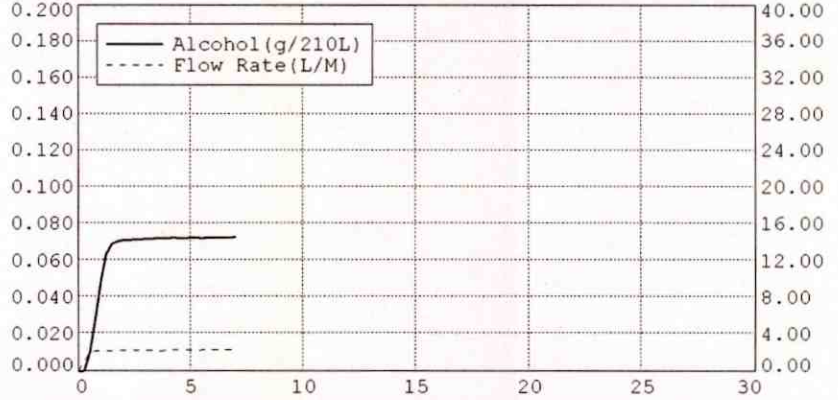
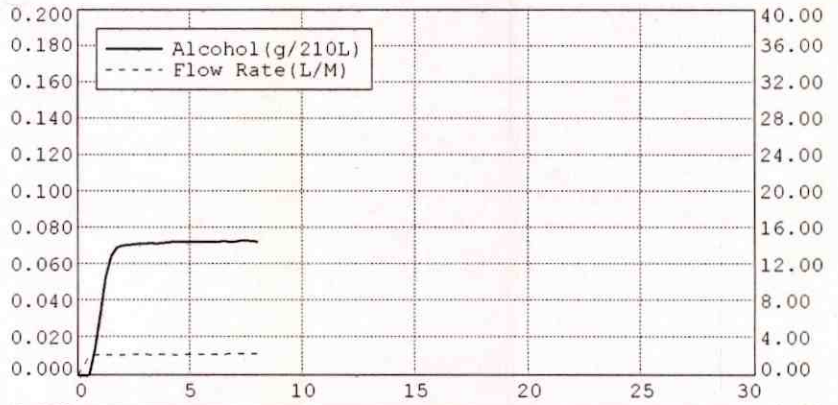
Date: 11/06/2023
 Time: 10:46:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.17: 0.078
 LOT #: AG310901
 EXPIRATION: 04/19/2025
 TANK PRESSURE: 536 psi

BLANK TEST	0.000	10:47
INTERNAL STANDARD	VERIFIED	10:48
EXTERNAL STANDARD	0.074	10:48
BLANK TEST	0.000	10:49
EXTERNAL STANDARD	0.074	10:49
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.074	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.074	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.074	10:52
BLANK TEST	0.000	10:53

Average = 0.0740
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100368

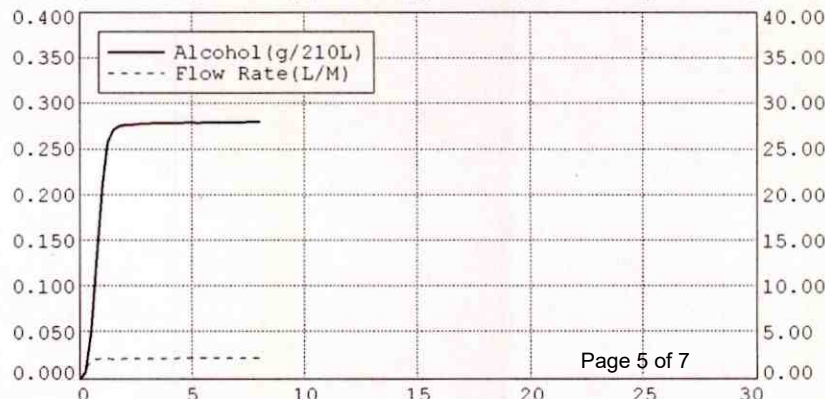
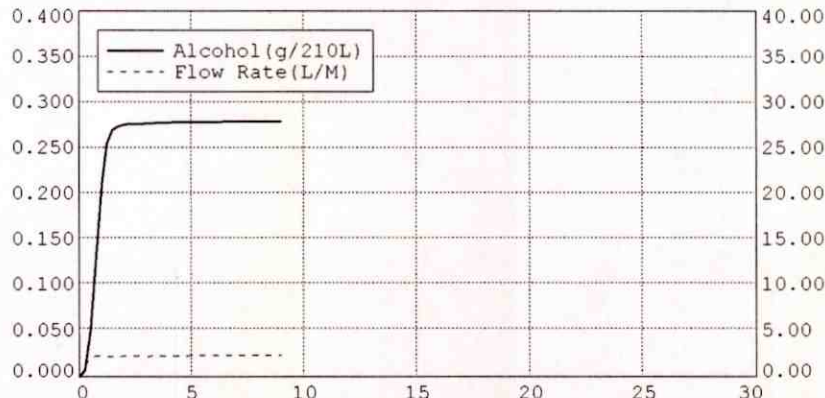
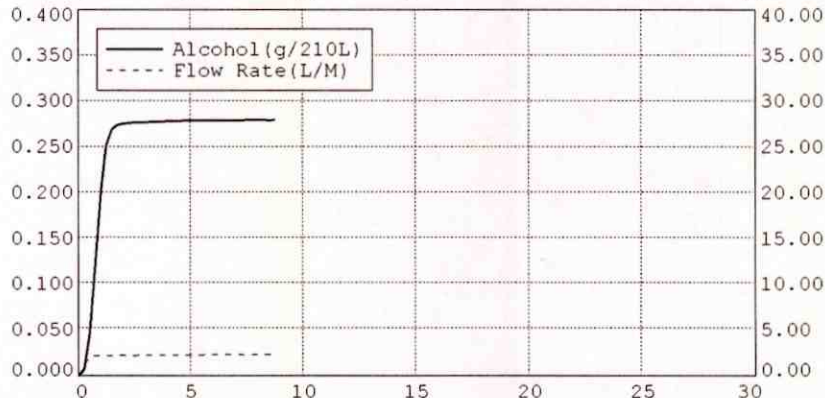
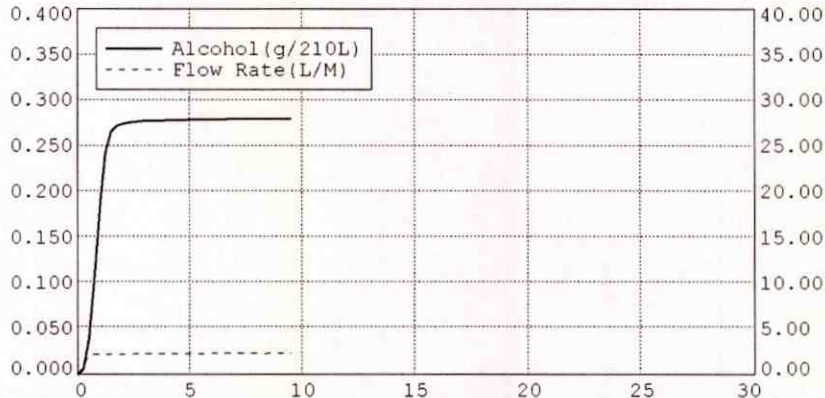
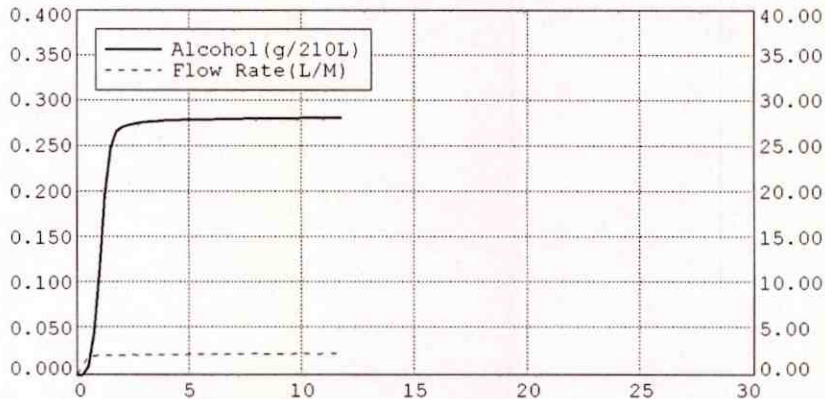
Date: 11/06/2023
 Time: 10:55:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.17: 0.293
 LOT #: AG217903
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 349 psi

BLANK TEST	0.000	10:56
INTERNAL STANDARD	VERIFIED	10:56
EXTERNAL STANDARD	0.281	10:57
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.280	10:58
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.280	10:59
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.279	11:00
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.280	11:01
BLANK TEST	0.000	11:02

Average = 0.2800
 Std Dev = 0.0007



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100368

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/06/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.17: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 544 psi

BLANK TEST	0.000	10:11
INTERNAL STANDARD	VERIFIED	10:11
Xq = 0.075 (0.92%)		
EXTERNAL STANDARD	0.073	10:11
X[1] = 0.0734 (-0.0015) (-0.0017)		
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.074	10:12
X[1] = 0.0738 (-0.0006) (-0.0005)		
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.074	10:13
X[1] = 0.0738 (-0.0010) (-0.0009)		
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.074	10:15
X[1] = 0.0742 (-0.0011) (-0.0007)		
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.074	10:16
X[1] = 0.0738 (-0.0010) (-0.0002)		
BLANK TEST	0.000	10:17

Average = 0.0738
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.64 V	PASSED
(0.97 V - 2.27 V)	
Cooler Voltage = 1.71 V	PASSED
(1.04 V - 2.42 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 526 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.590 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 = 0.075	0.34%	(0.00% - 4.00%)
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SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100368

Date: 11/06/2023

Time: 11:26:01

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 29.17: 0.078

LOT #: AG310901

EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	11:27
BLANK TEST	0.000	11:27
INTERNAL STANDARD	VERIFIED	11:27
EXTERNAL STANDARD	0.074	11:28
BLANK TEST	0.000	11:29
SUBJECT SAMPLE (Vol=1.61L)	0.000	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.075	11:30
BLANK TEST	0.000	11:31

CVG

