

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100387
Start Date: 11/6/23
Date Received: 10/23/23

Analyst(s): Carlie Haister

Reason for instrument evaluation

Returned from infox (filter wheel 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

As Found Conditions:

Barometric Pressure (inHg): 29.13 Temperature (C): 22.9 Relative Humidity (%) 22

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

Cleared memory before eval. Reset options before eval. Recommend adjustment due to internal standard being near 3%.

- VOC (attached)
- Verify software version
- VOC Internal Standard value \leq 3.00% 2.94% & 2.02%
- Non-Drinking Subject Test (attached)

Condition of item: Good Needs Repair

- Ready for Adjustment
- Ready for Calibration

End Date: 11/6/23

Page 1 of 1

All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

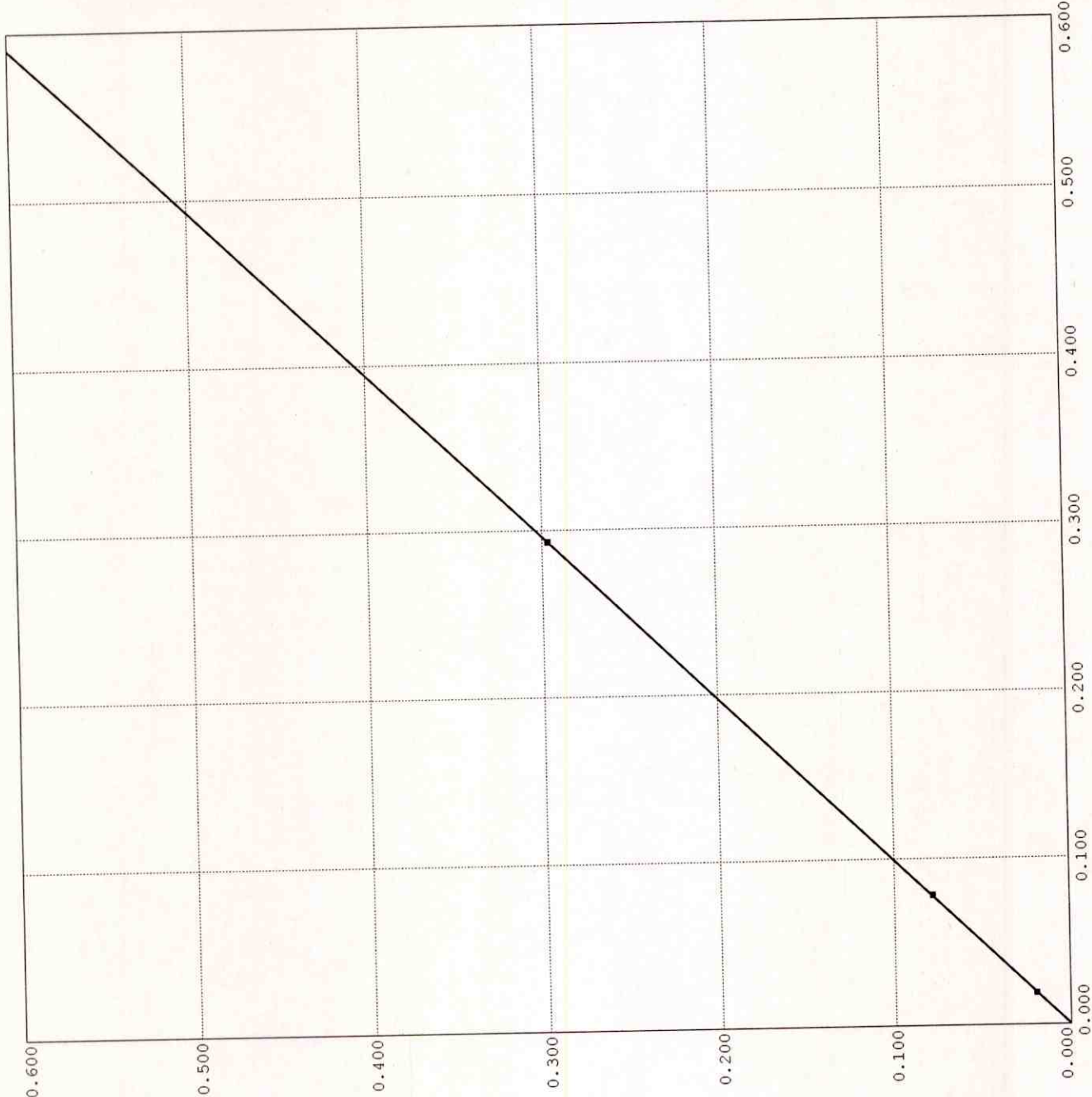
 Alaska Department of Public Safety
 DATAMASTER dmt: 100387

Date: 11/06/2023
 Time: 11:33:59

SUPERVISOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.078	0.0790	0.0000
0.292	0.2974	0.0005

SLOPE = 1.017308
 R² = 0.999987



CXG

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

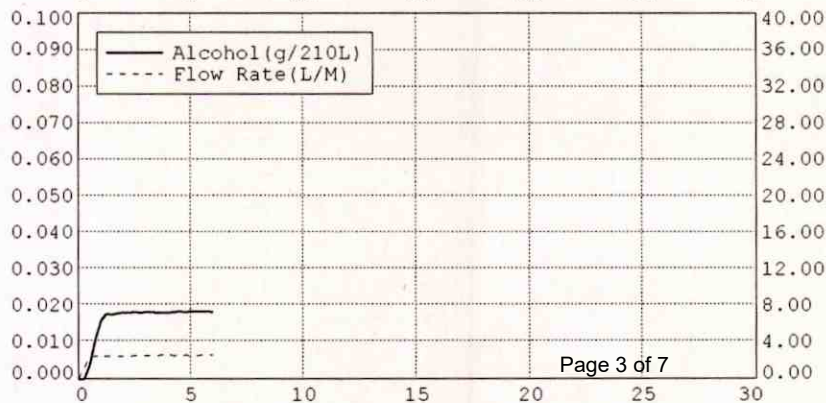
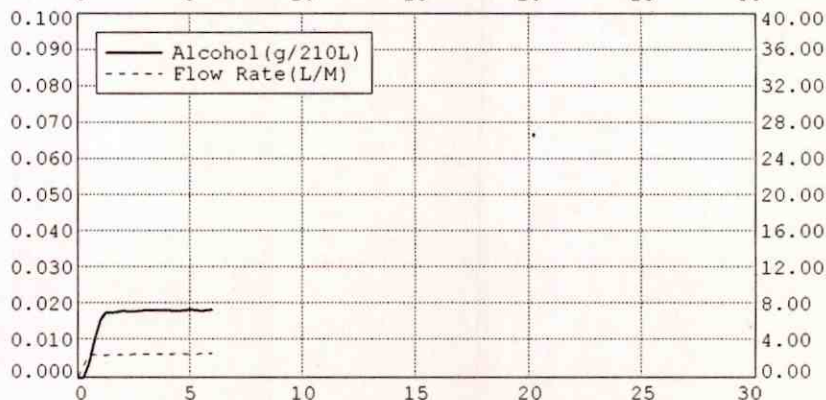
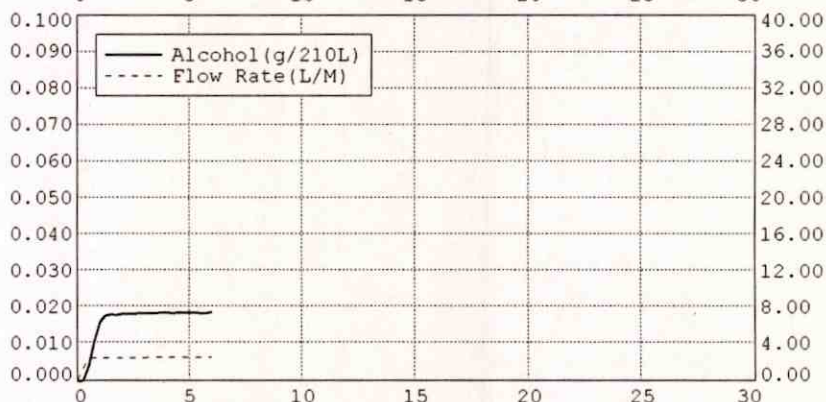
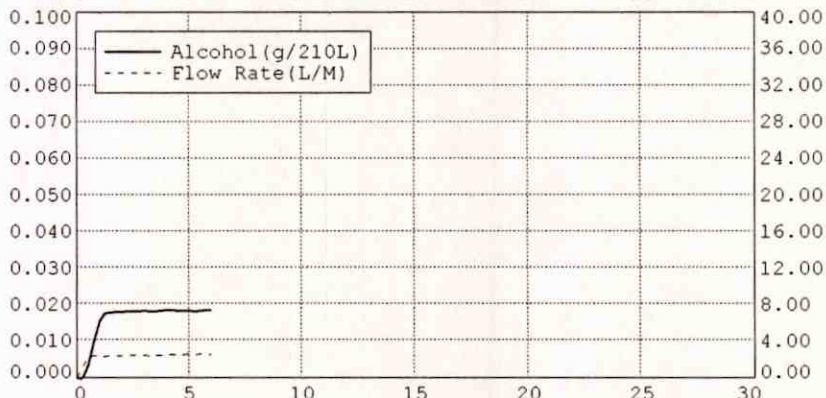
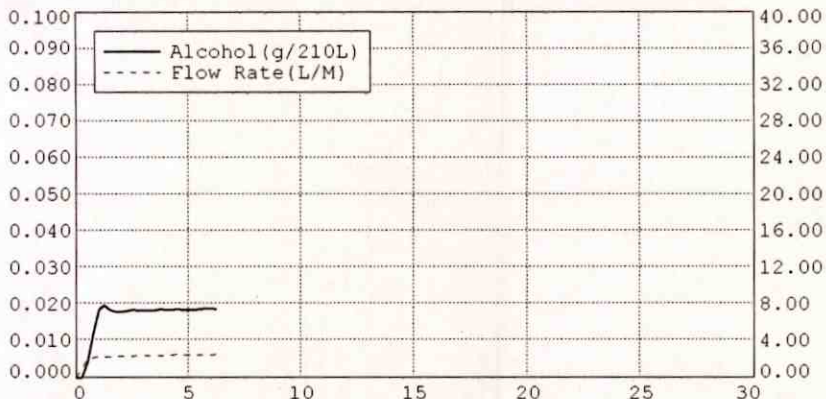
Date: 11/06/2023
 Time: 11:34:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.12: 0.019
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 529 psi

BLANK TEST	0.000	11:35
INTERNAL STANDARD	VERIFIED	11:35
EXTERNAL STANDARD	0.020	11:35
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.020	11:36
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.020	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.020	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.020	11:39
BLANK TEST	0.000	11:40

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100387

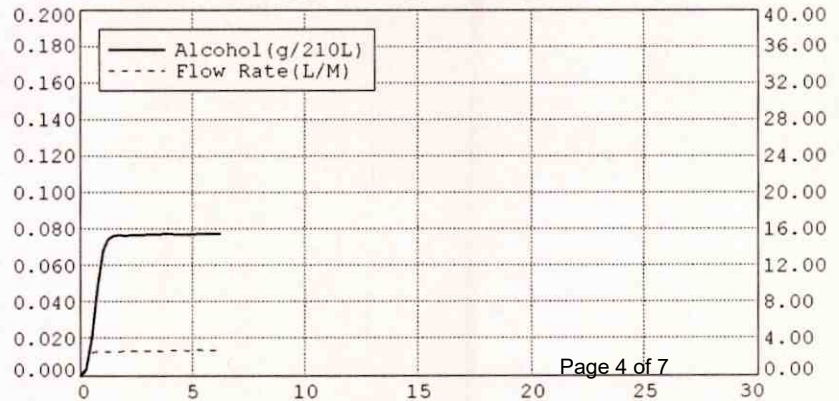
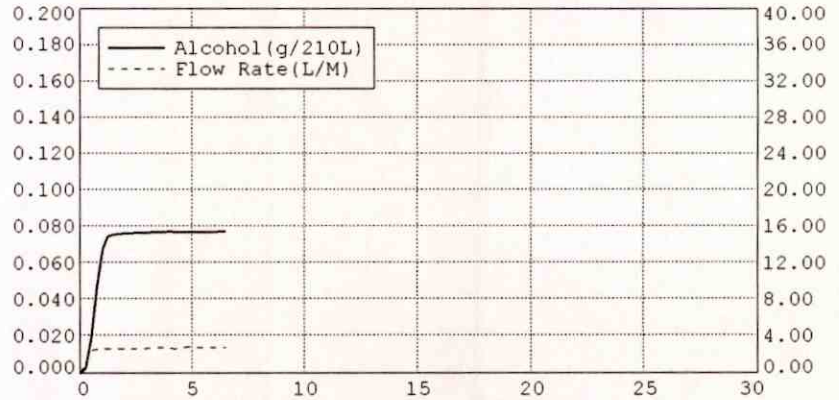
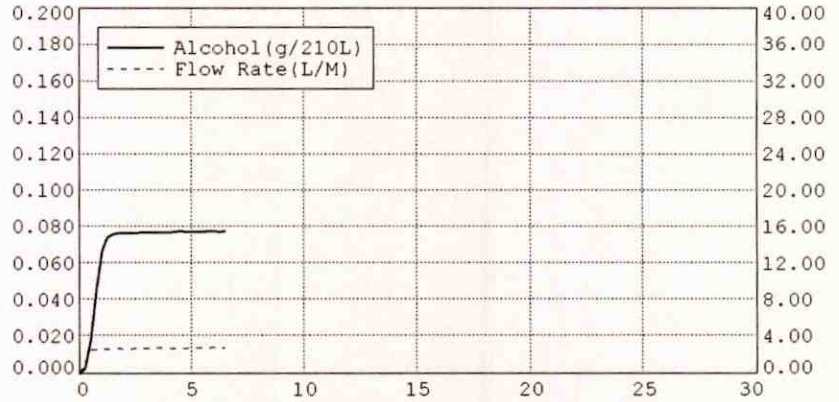
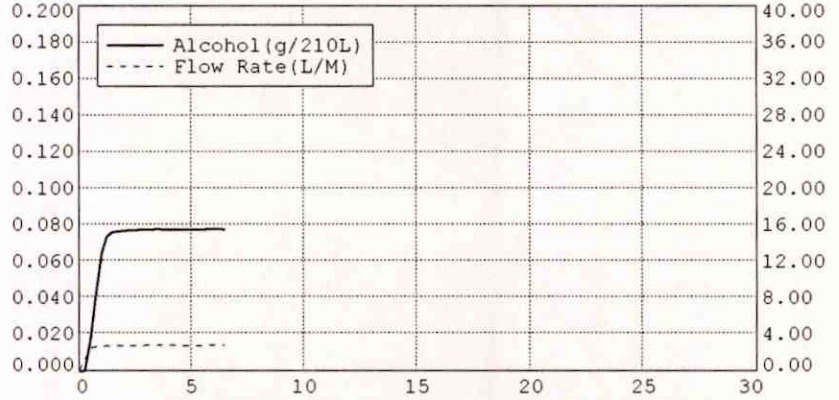
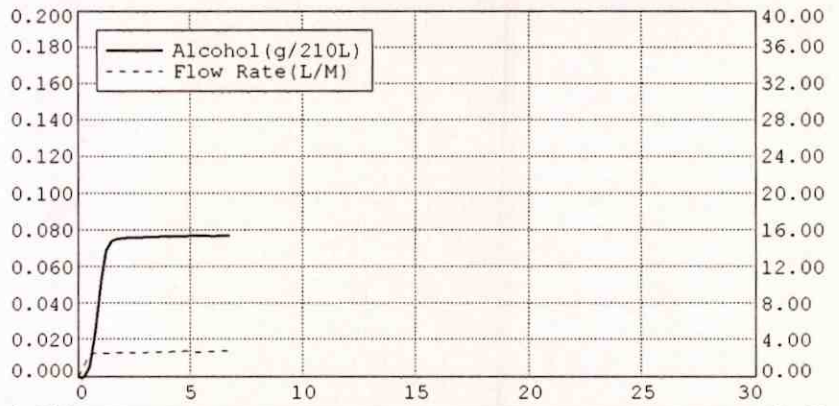
Date: 11/06/2023
Time: 11:46:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.12: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 1178 psi

BLANK TEST	0.000	11:48
INTERNAL STANDARD	VERIFIED	11:48
EXTERNAL STANDARD	0.079	11:49
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.079	11:50
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.079	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.079	11:52
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.079	11:53
BLANK TEST	0.000	11:54

Average = 0.0790
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

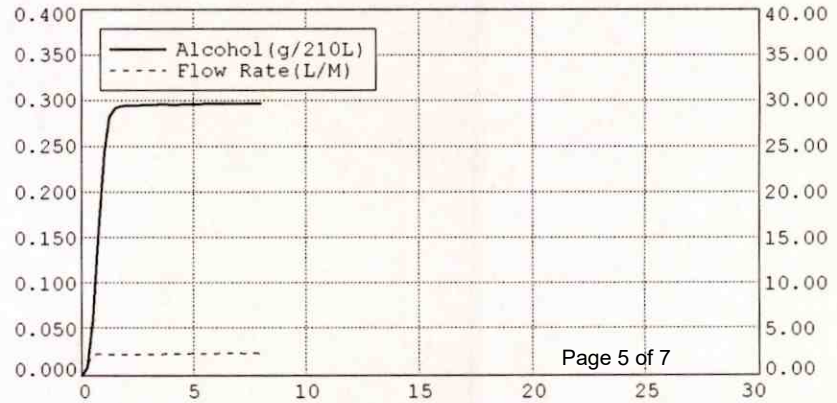
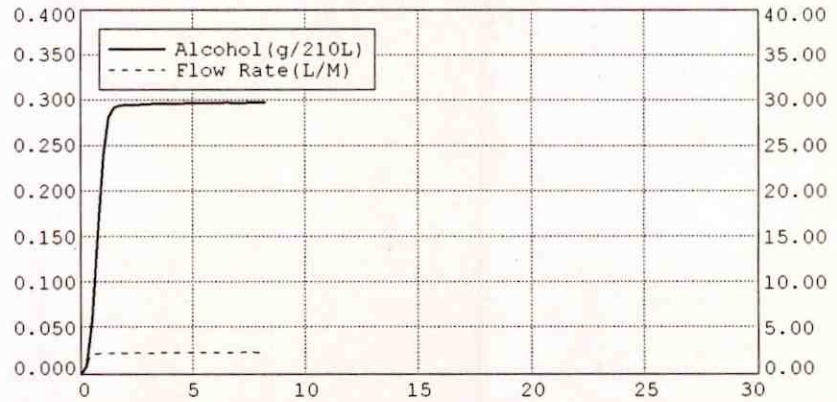
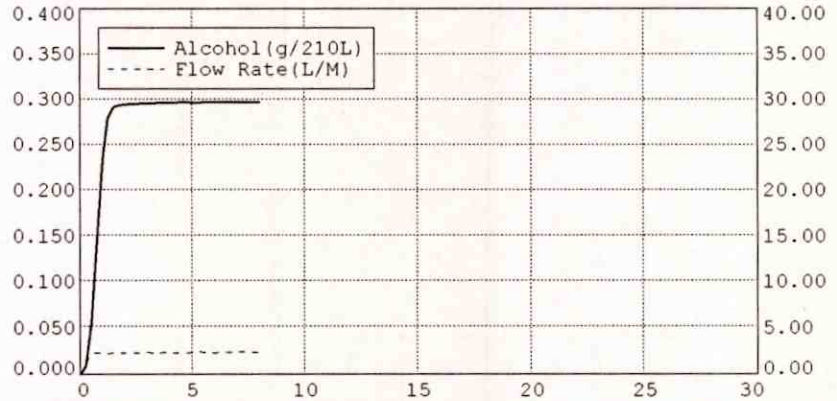
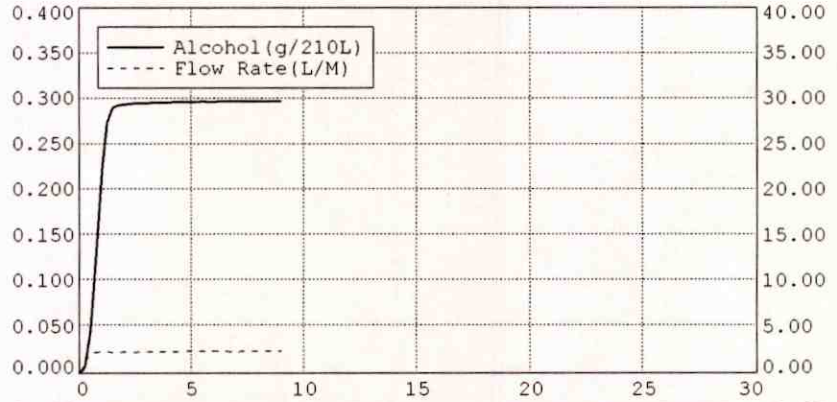
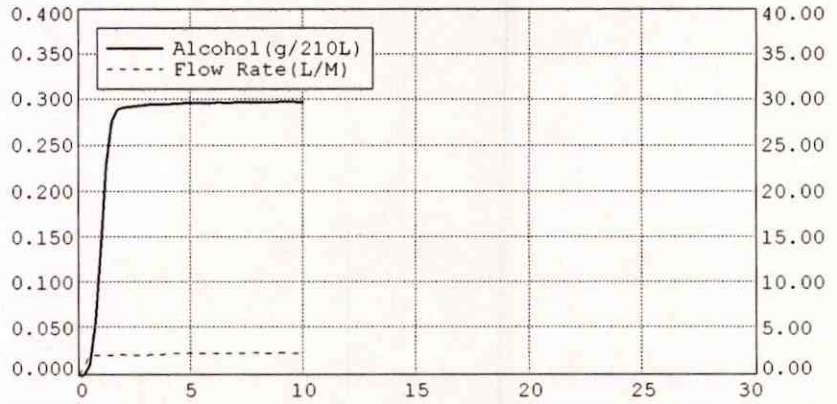
Date: 11/06/2023
 Time: 11:55:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.12: 0.292
 LOT #: AG217903
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 302 psi

BLANK TEST	0.000	11:56
INTERNAL STANDARD	VERIFIED	11:56
EXTERNAL STANDARD	0.298	11:57
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.297	11:58
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.297	11:59
BLANK TEST	0.000	12:00
EXTERNAL STANDARD	0.298	12:00
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.297	12:01
BLANK TEST	0.000	12:02

Average = 0.2974
 Std Dev = 0.0005



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100387

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/06/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.12: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 1200 psi

BLANK TEST	0.000	10:25
INTERNAL STANDARD	VERIFIED	10:25
Xq = 0.093 (2.02%)		
EXTERNAL STANDARD	0.080	10:25
X[1] = 0.0796 (-0.0005) (-0.0015)		
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.079	10:26
X[1] = 0.0786 (-0.0018) (-0.0020)		
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.079	10:27
X[1] = 0.0789 (-0.0013) (-0.0013)		
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.079	10:28
X[1] = 0.0789 (-0.0017) (-0.0014)		
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.079	10:29
X[1] = 0.0786 (-0.0017) (-0.0020)		
BLANK TEST	0.000	10:30

Average = 0.0792
Std Dev = 0.0004

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 = 46.5°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.83 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.76 V	PASSED
(1.09 V - 2.53 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.1 in	

PUMP INFO

Flow Rate = 4.592 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 = 0.092 2.94%	PASSED
(0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100387

Date: 11/06/2023

Time: 12:07:05

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 29.11: 0.078

LOT #: AG310901

EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	12:08
BLANK TEST	0.000	12:08
INTERNAL STANDARD	VERIFIED	12:08
EXTERNAL STANDARD	0.080	12:08
BLANK TEST	0.000	12:09
SUBJECT SAMPLE (Vol=1.75L)	0.000	12:10
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.080	12:11
BLANK TEST	0.000	12:12

CKG

