

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100667
Start Date: 11/7/23
Date Received: 11/7/23

Analyst(s): Carlie Gaister

Reason for instrument evaluation

Instrument not recognizing when a breath sample is being provided

Visual Inspection

- Clean
- Cermetex 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): 29.19 Temperature (C): 22.6 Relative Humidity (%) 18

Linearity Test (attached)

0.020g/210L Mnf: Airgas Lot: AG217902 Exp: 6/28/24
0.080g/210L Mnf: Airgas Lot: AG310901 Exp: 4/19/25
0.300g/210L Mnf: Airgas Lot: AG217903 Exp: 6/28/24

Notes

Sway valve was stuck. ~~It~~ moved the mechanism to un-jam it. While testing the mechanism, it continues to get stuck. Recommend replacing Sway valve. 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 Sway valve got stuck & would not recognize breath sample resulting in an Incomplete.
- Ready for Adjustment
 Ready for Calibration

End Date: 11/7/23

LINEARITY CHECK

 Alaska Department of Public Safety
 DATAMASTER dmt: 100667

Date: 11/07/2023
 Time: 12:47:02

SUPERVISOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

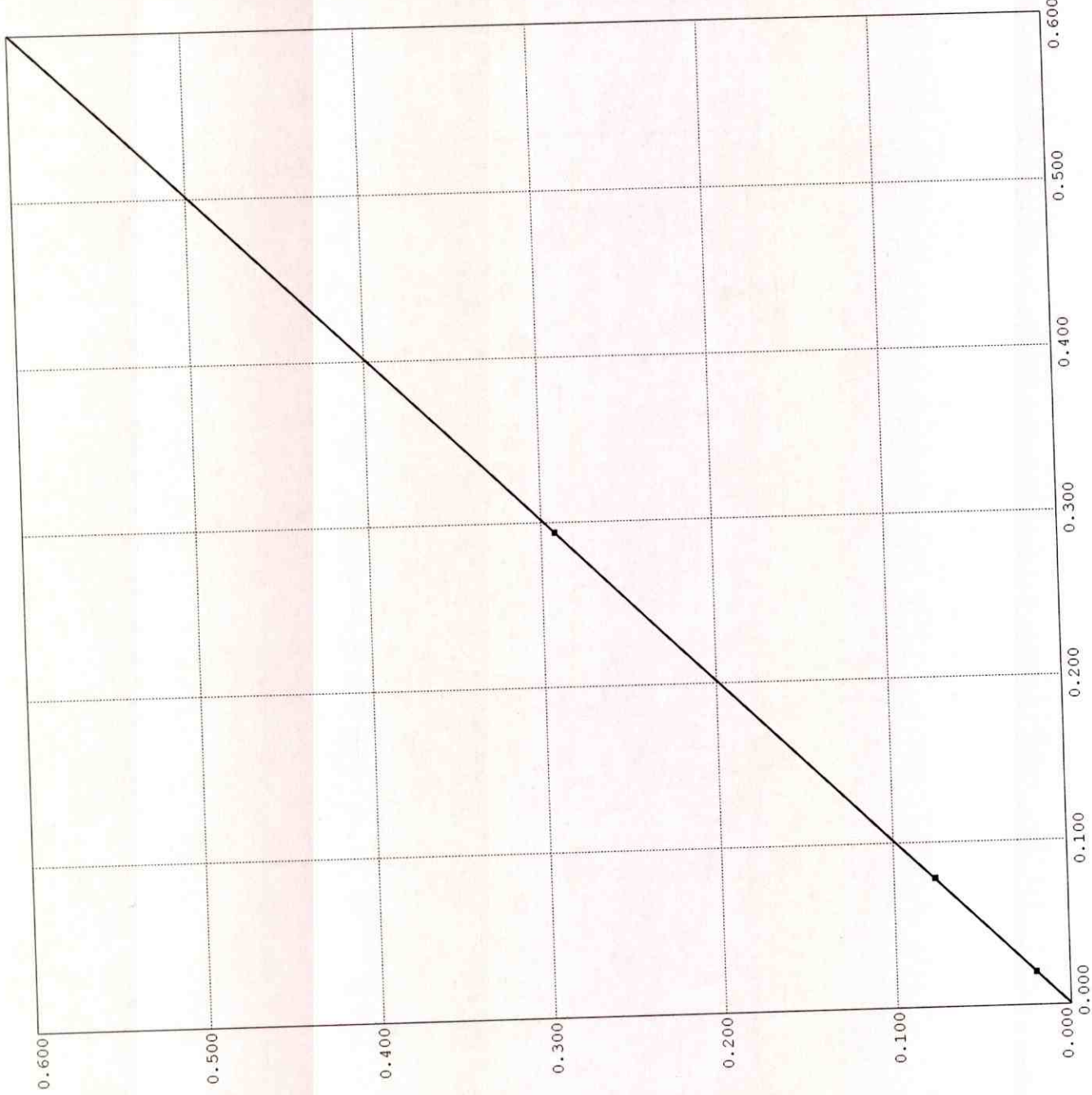
TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.078	0.0772	0.0004
0.293	0.2928	0.0004

SLOPE = 1.000226
 R² = 0.999992

100667 2023.11.07 Evaluation

Page 2 of 7

CMB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100667

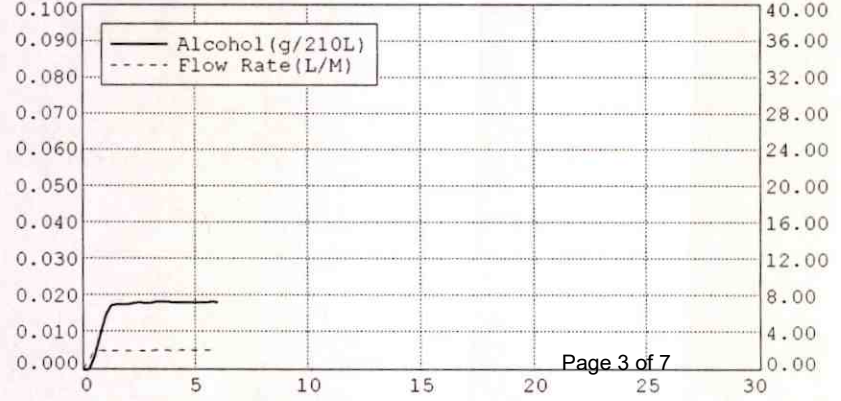
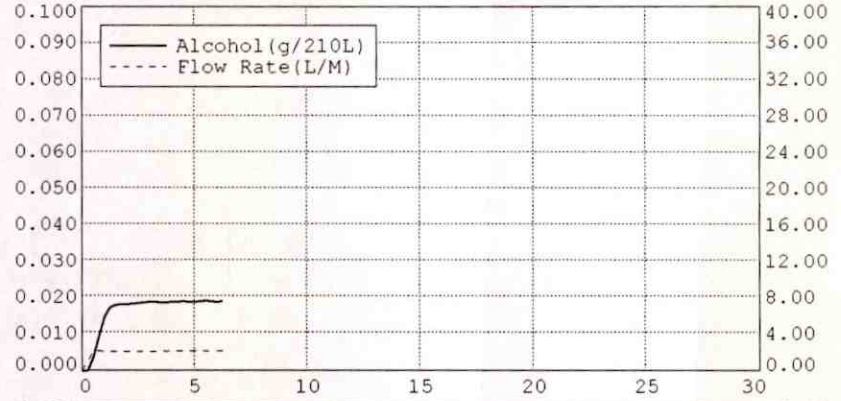
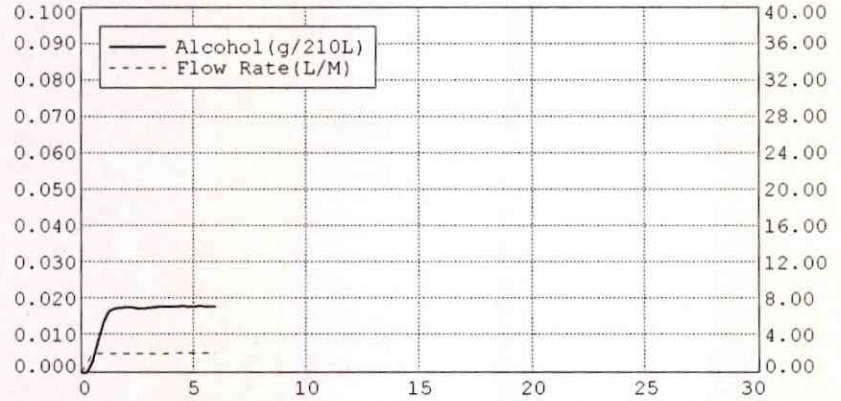
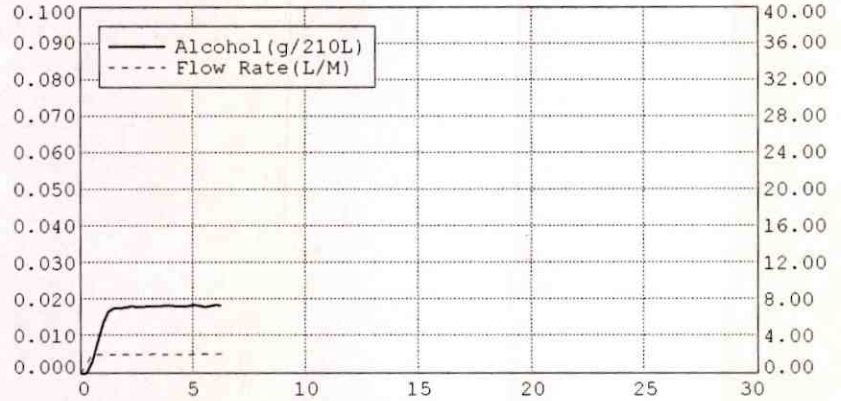
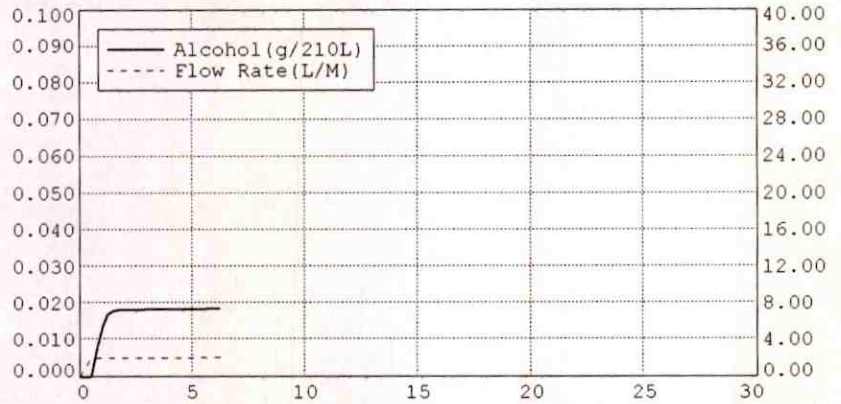
Date: 11/07/2023
Time: 12:47:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.19: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 733 psi

BLANK TEST	0.000	12:48
INTERNAL STANDARD	VERIFIED	12:49
EXTERNAL STANDARD	0.020	12:49
BLANK TEST	0.000	12:50
EXTERNAL STANDARD	0.020	12:50
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.020	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.020	12:52
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.020	12:53
BLANK TEST	0.000	12:54

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

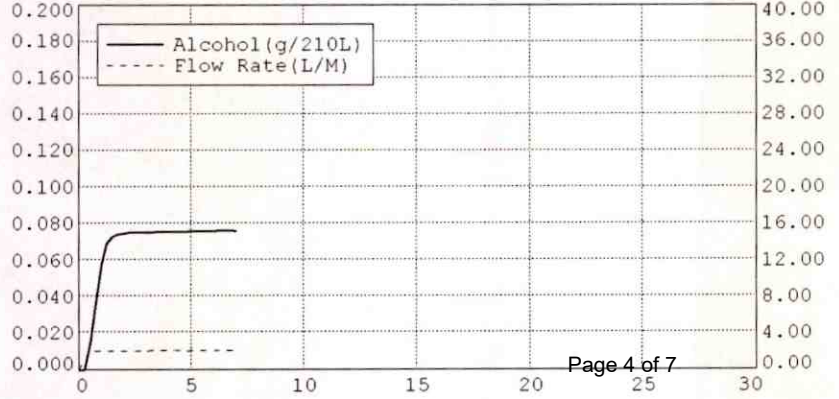
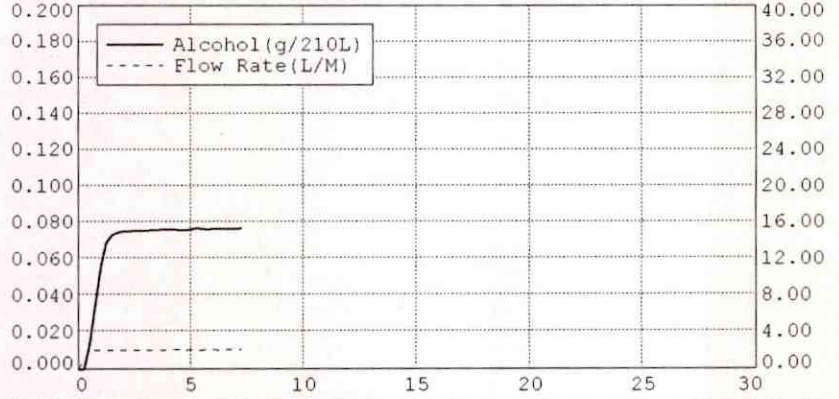
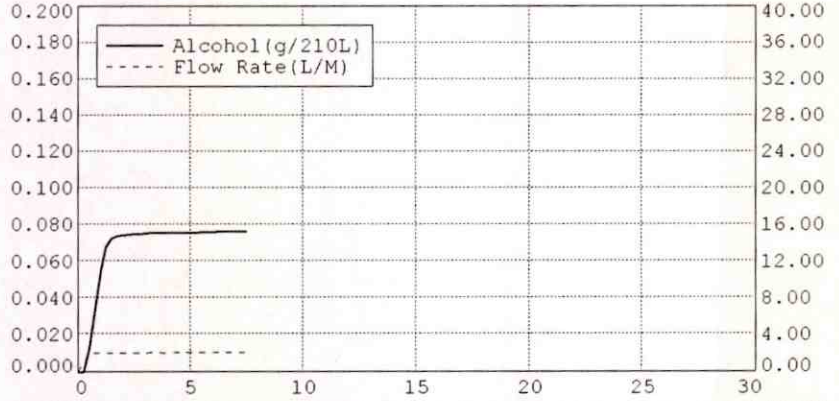
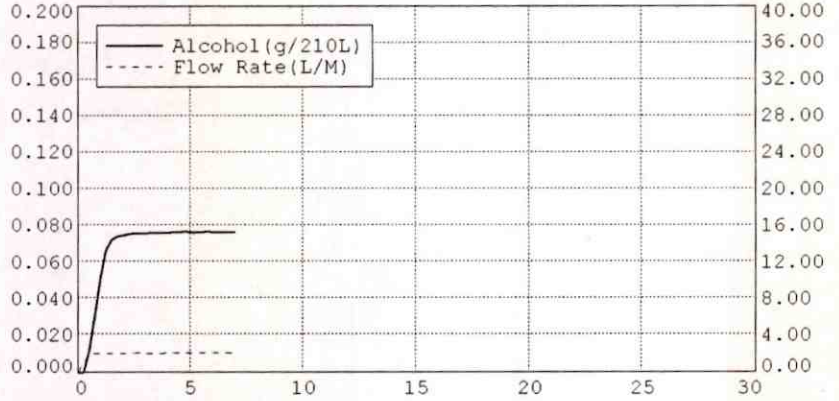
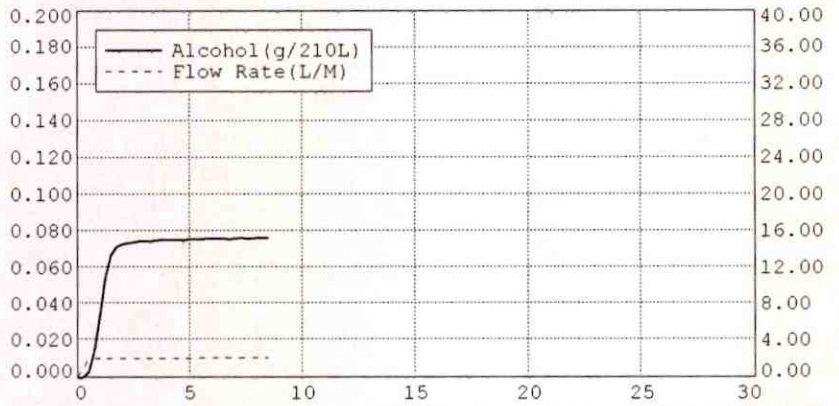
Date: 11/07/2023
 Time: 12:56:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.19: 0.078
 LOT #: AG310901
 EXPIRATION: 04/19/2025
 TANK PRESSURE: 713 psi

BLANK TEST	0.000	12:57
INTERNAL STANDARD	VERIFIED	12:57
EXTERNAL STANDARD	0.077	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.078	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.077	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.077	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.077	13:02
BLANK TEST	0.000	13:03

Average = 0.0772
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

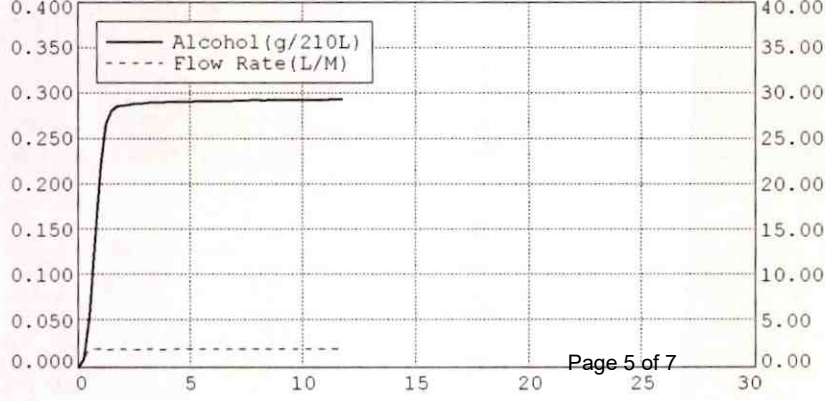
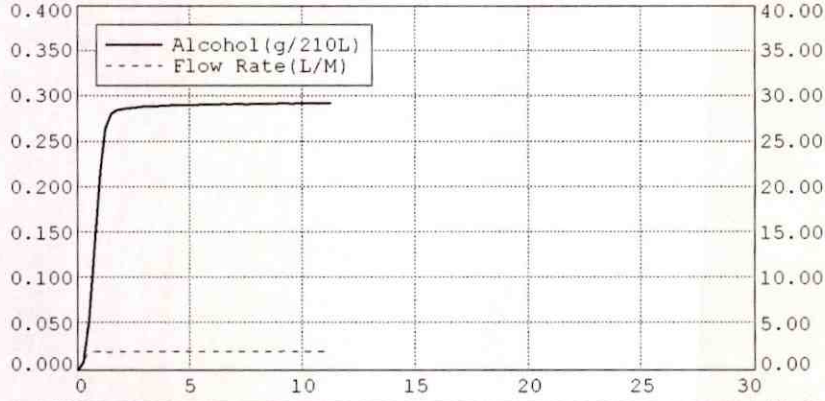
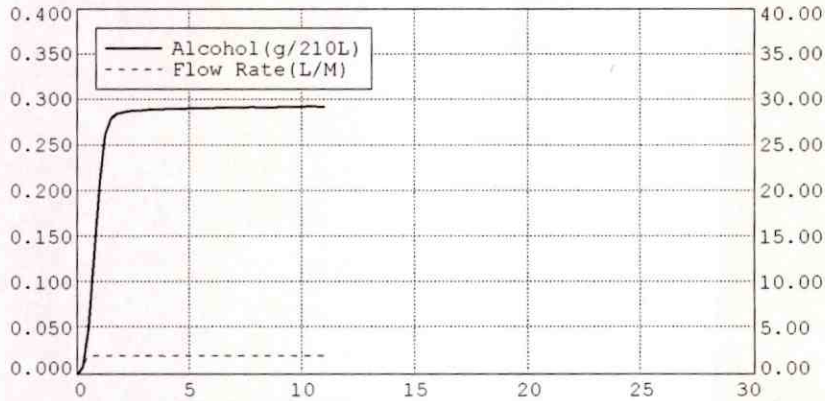
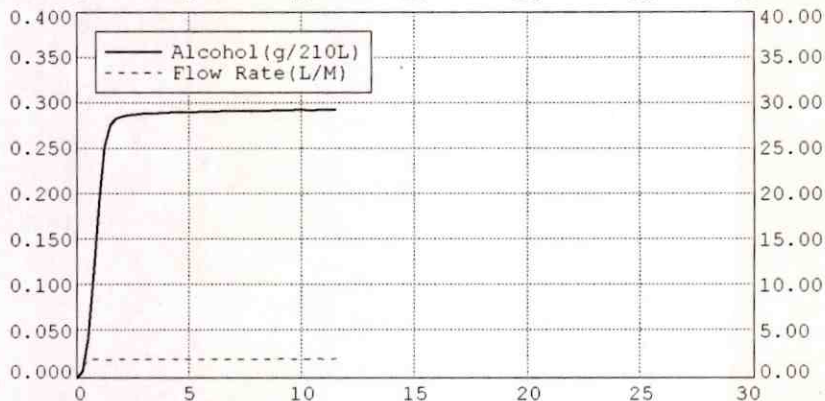
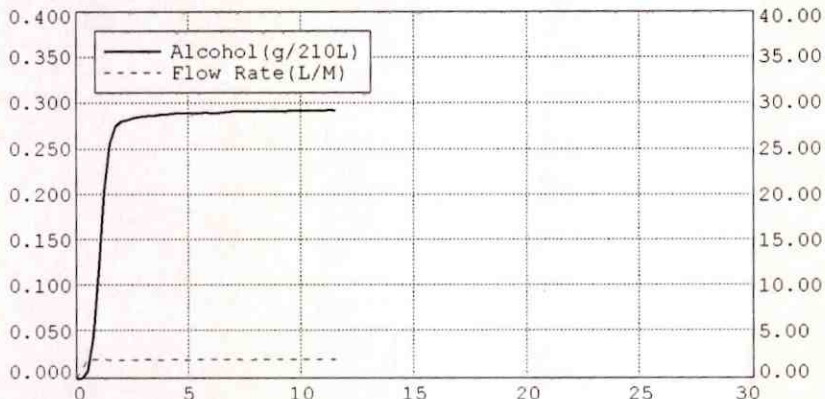
Date: 11/07/2023
 Time: 13:25:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.18: 0.293
 LOT #: AG217903
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 285 psi

BLANK TEST	0.000	13:26
INTERNAL STANDARD	VERIFIED	13:26
EXTERNAL STANDARD	0.293	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.293	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.293	13:29
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.292	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.293	13:31
BLANK TEST	0.000	13:32

Average = 0.2928
 Std Dev = 0.0004



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100667

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/07/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.16: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 729 psi

BLANK TEST	0.000	10:08
INTERNAL STANDARD	VERIFIED	10:08
Xq = 0.105 (0.91%)		
EXTERNAL STANDARD	0.077	10:08
X[1] = 0.0774 (-0.0025) (-0.0017)		
BLANK TEST	0.000	10:09
EXTERNAL STANDARD	0.077	10:09
X[1] = 0.0773 (-0.0025) (-0.0012)		
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.077	10:10
X[1] = 0.0772 (-0.0026) (-0.0020)		
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.077	10:11
X[1] = 0.0772 (-0.0021) (-0.0013)		
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.077	10:13
X[1] = 0.0775 (-0.0026) (-0.0010)		
BLANK TEST	0.000	10:13

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 2.15 V	PASSED
(1.15 V - 2.67 V)	
Cooler Voltage = 1.75 V	PASSED
(1.16 V - 2.70 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 517 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.693 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
(0.003 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD PASSED

Xq = 0.106 0.17% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100667

Date: 11/07/2023

Time: 14:01:26

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 29.18: 0.078

LOT #: AG310901

EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK

PASSED 14:02

BLANK TEST

0.000 14:03

INTERNAL STANDARD

VERIFIED 14:03

EXTERNAL STANDARD

0.078 14:03

BLANK TEST

0.000 14:04

SUBJECT SAMPLE

INCOMPLETE 14:06

