

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100675
Start Date: 11/6/23
Date Received: 10/23/23

Analyst(s): Carlie Glaister

Reason for instrument evaluation .

Returned from intox (filter wheel & detector status messages)

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): 29.12 Temperature (C): 22.2 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 & reset options before eval.
Instrument would not upload at check in. Cermetex box
needed to be reseated. Check modem line connection &
it connected. Modem line now functioning properly.

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

1st VOC: 2.62% & 2.71%, 2nd VOC: 3.76%, 2.80%.

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

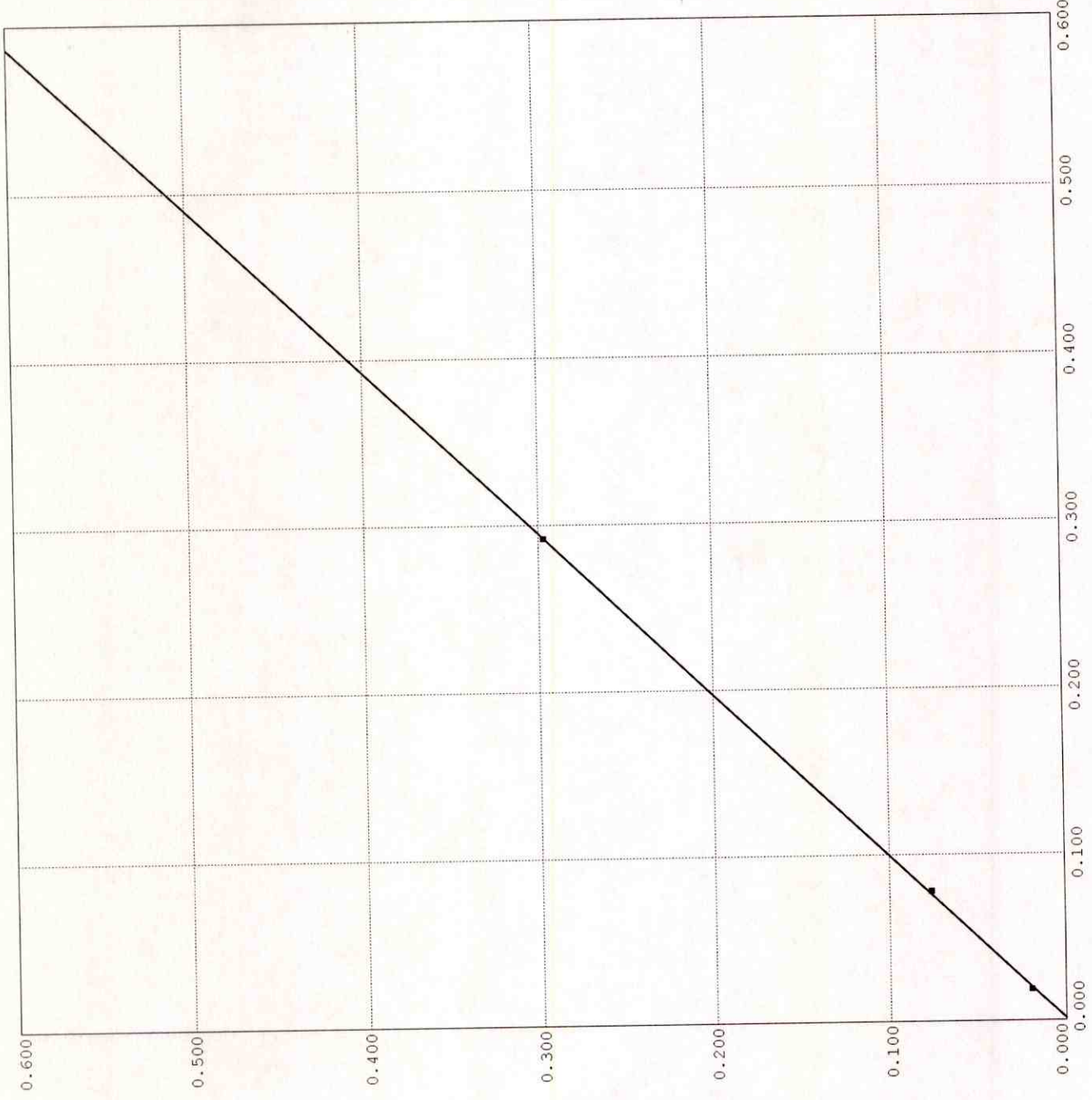
Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 11/06/2023
Time: 11:40:30

SUPERVISOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.078	0.0770	0.0000
0.291	0.2978	0.0008

SLOPE = 1.025408
R² = 0.999852



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100675

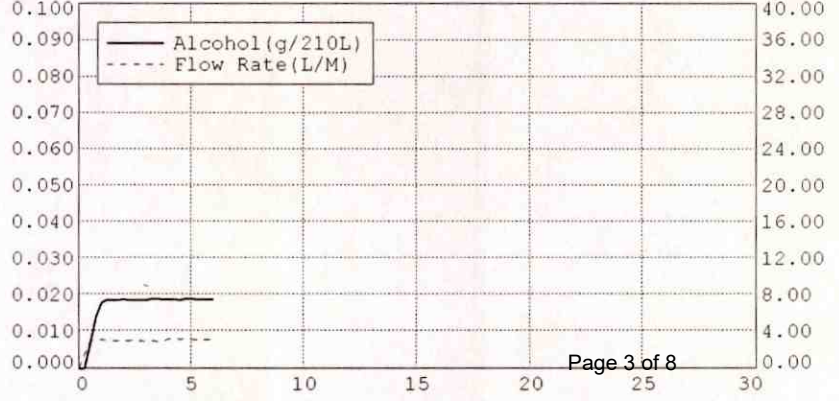
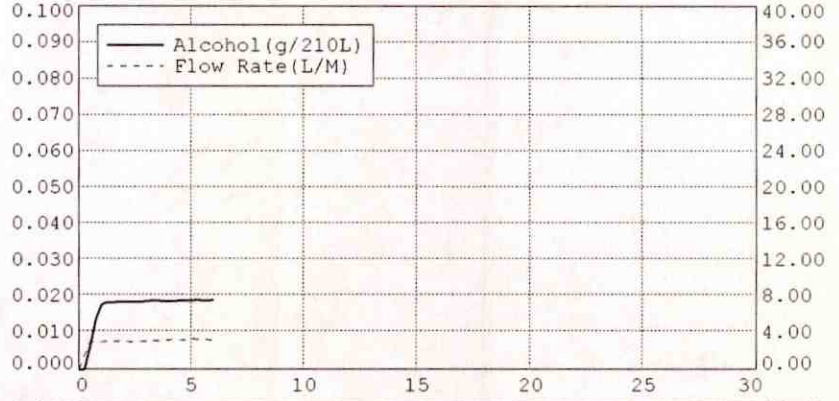
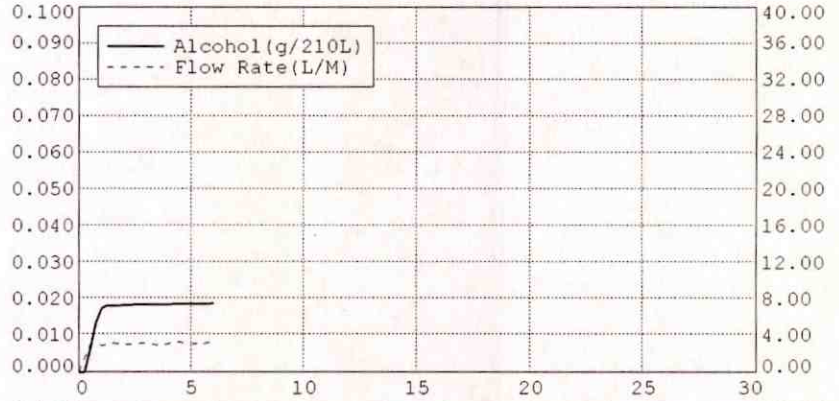
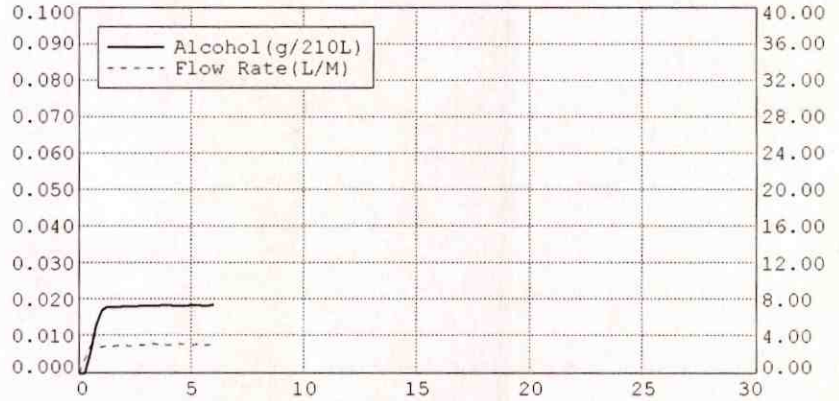
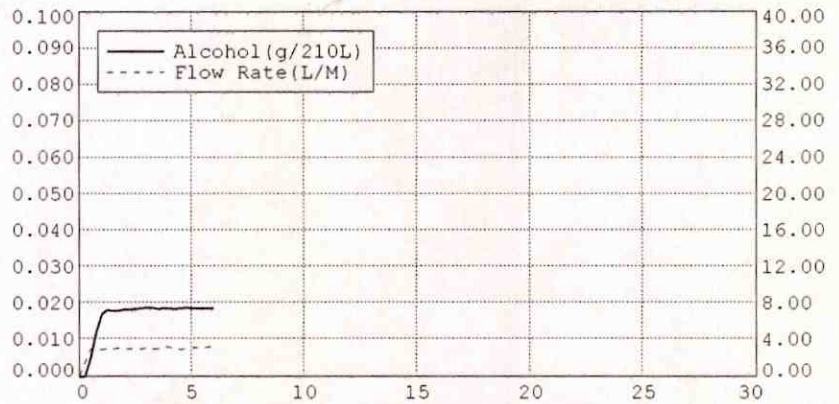
Date: 11/06/2023
 Time: 11:40:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.04: 0.019
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 748 psi

BLANK TEST	0.000	11:41
INTERNAL STANDARD	VERIFIED	11:41
EXTERNAL STANDARD	0.020	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.020	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.020	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.020	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.020	11:46
BLANK TEST	0.000	11:47

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100675

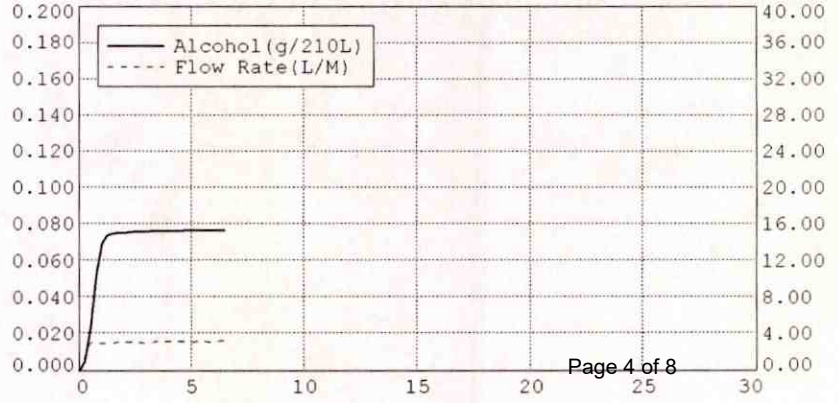
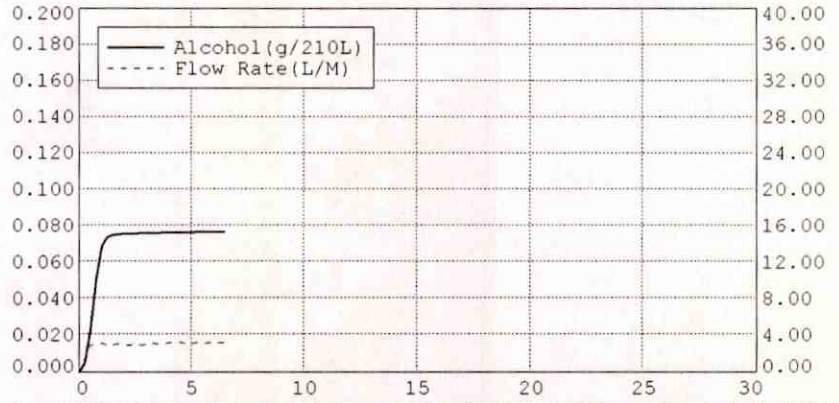
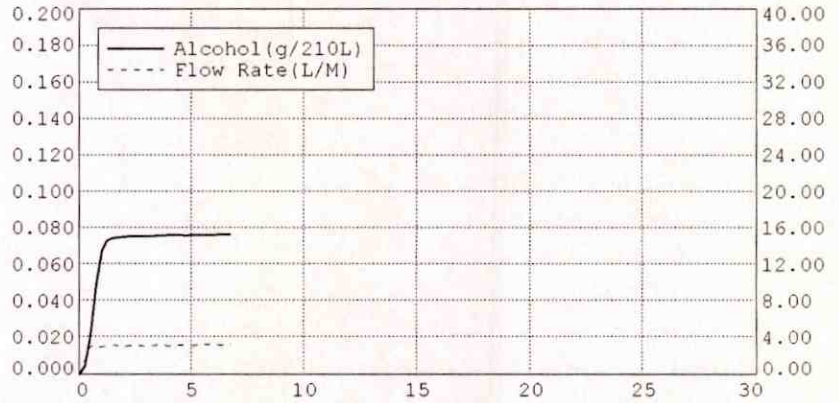
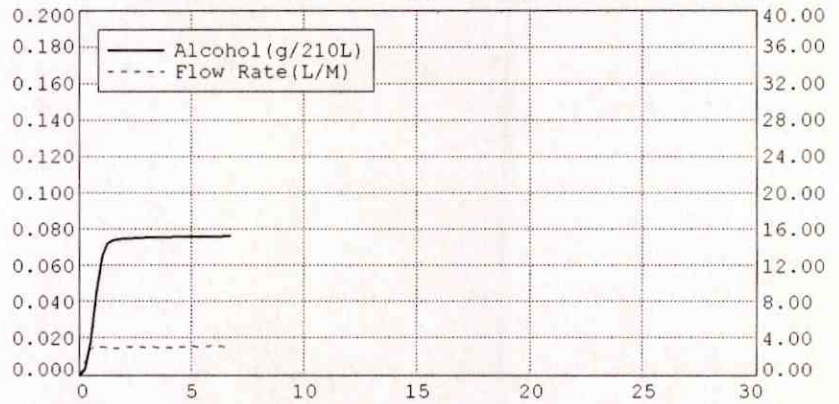
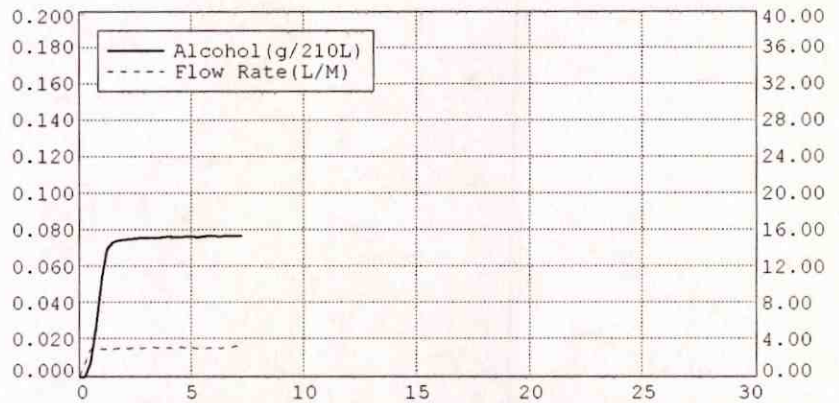
Date: 11/06/2023
Time: 11:50:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.04: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 861 psi

BLANK TEST	0.000	11:51
INTERNAL STANDARD	VERIFIED	11:51
EXTERNAL STANDARD	0.077	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.077	11:53
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.077	11:54
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.077	11:55
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.077	11:56
BLANK TEST	0.000	11:57

Average = 0.0770
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100675

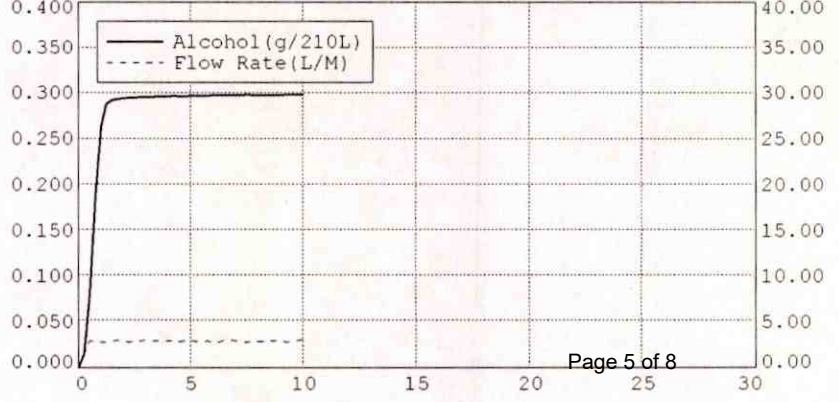
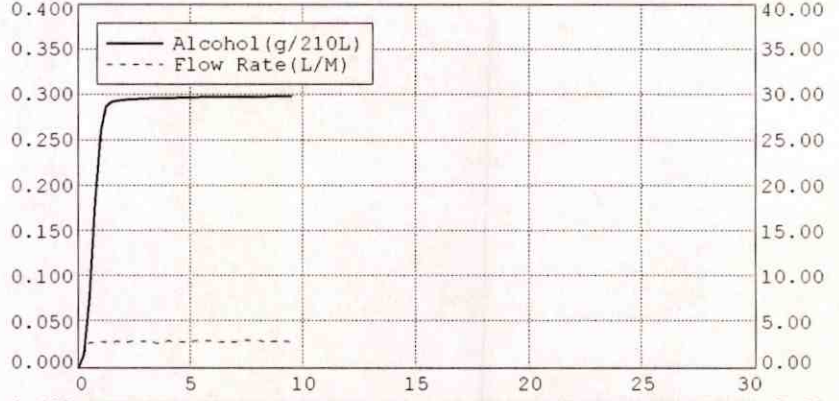
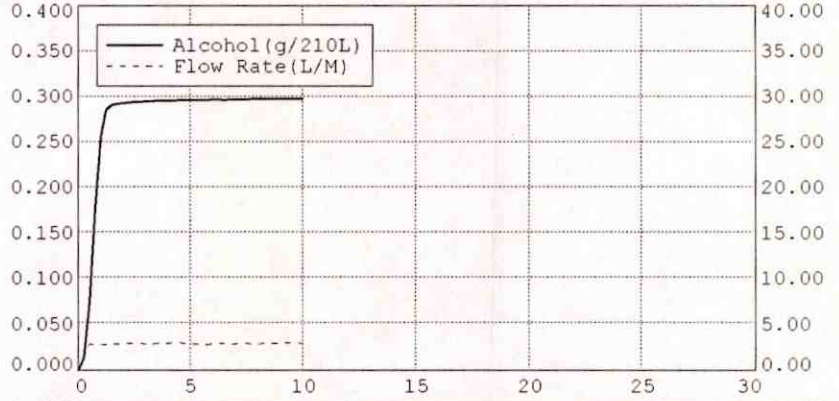
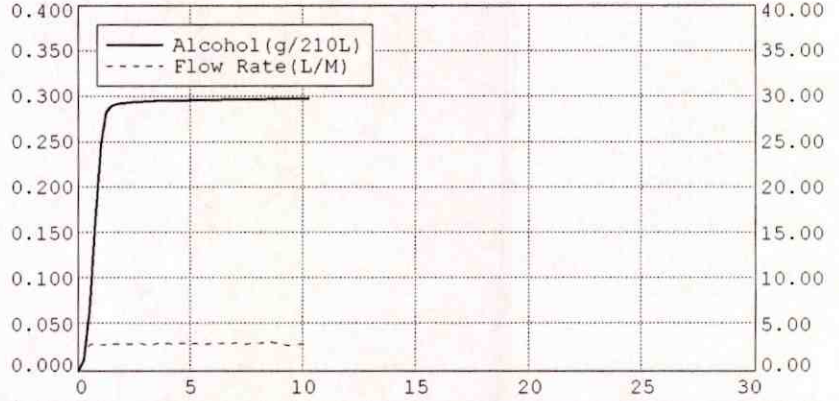
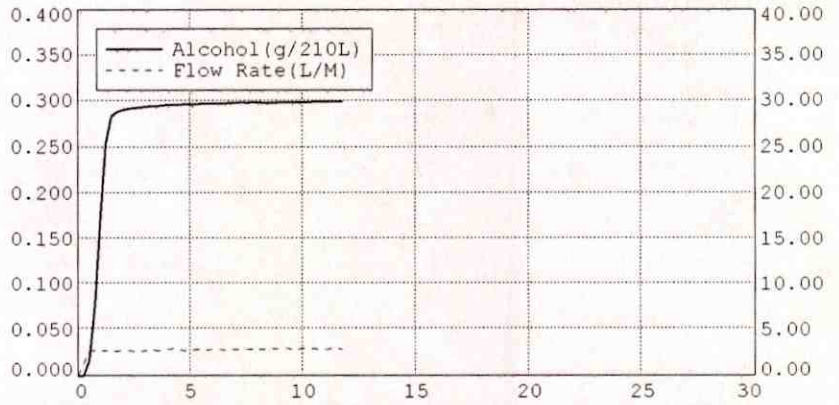
Date: 11/06/2023
Time: 11:57:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.04: 0.291
LOT #: AG217903
EXPIRATION: 06/28/2024
TANK PRESSURE: 127 psi

BLANK TEST	0.000	11:58
INTERNAL STANDARD	VERIFIED	11:59
EXTERNAL STANDARD	0.299	11:59
BLANK TEST	0.000	12:00
EXTERNAL STANDARD	0.297	12:00
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.297	12:01
BLANK TEST	0.000	12:02
EXTERNAL STANDARD	0.298	12:02
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.298	12:04
BLANK TEST	0.000	12:04

Average = 0.2978
Std Dev = 0.0008



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100675

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/06/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.04: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 878 psi

BLANK TEST 0.000 10:28
INTERNAL STANDARD VERIFIED 10:28
Xq = 0.098 (2.71%)
EXTERNAL STANDARD 0.078 10:28
X[1] = 0.0781 (-0.0027) (-0.0023)
BLANK TEST 0.000 10:29
EXTERNAL STANDARD 0.078 10:29
X[1] = 0.0776 (-0.0024) (-0.0021)
BLANK TEST 0.000 10:30
EXTERNAL STANDARD 0.077 10:30
X[1] = 0.0769 (-0.0032) (-0.0023)
BLANK TEST 0.000 10:31
EXTERNAL STANDARD 0.077 10:31
X[1] = 0.0773 (-0.0026) (-0.0021)
BLANK TEST 0.000 10:32
EXTERNAL STANDARD 0.077 10:32
X[1] = 0.0774 (-0.0026) (-0.0018)
BLANK TEST 0.000 10:33

Average = 0.0774
Std Dev = 0.0005

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 = 45.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.04 V PASSED
(1.22 V - 2.86 V)
Cooler Voltage = 1.86 V PASSED
(1.12 V - 2.60 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 522 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.0 in

PUMP INFO

Flow Rate = 4.645 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 = 0.098 2.62% (0.00% - 4.00%) PASSED

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100675

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/06/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.02: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 832 psi

BLANK TEST	0.000	12:12
INTERNAL STANDARD	VERIFIED	12:12
Xq = 0.097 (2.80%)		
EXTERNAL STANDARD	0.079	12:12
X[1] = 0.0786 (-0.0010) (0.0025)		
BLANK TEST	0.000	12:13
EXTERNAL STANDARD	0.077	12:13
X[1] = 0.0774 (-0.0011) (0.0018)		
BLANK TEST	0.000	12:14
EXTERNAL STANDARD	0.078	12:14
X[1] = 0.0776 (-0.0009) (0.0012)		
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.078	12:15
X[1] = 0.0777 (-0.0010) (0.0014)		
BLANK TEST	0.000	12:16
EXTERNAL STANDARD	0.077	12:17
X[1] = 0.0771 (-0.0017) (0.0001)		
BLANK TEST	0.000	12:17

Average = 0.0778
Std Dev = 0.0008

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 = 46.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 2.04 V	PASSED
(1.22 V - 2.86 V)	
Cooler Voltage = 1.86 V	PASSED
(1.12 V - 2.60 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.0 in	

PUMP INFO

Flow Rate = 4.769 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
(0.003 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD PASSED

Xq = 0.096 3.76% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 11/06/2023
Time: 12:20:24

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 29.03: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	12:22
BLANK TEST	0.000	12:22
INTERNAL STANDARD	VERIFIED	12:22
EXTERNAL STANDARD	0.078	12:22
BLANK TEST	0.000	12:23
SUBJECT SAMPLE (Vol=1.71L)	0.000	12:23
BLANK TEST	0.000	12:24
EXTERNAL STANDARD	0.079	12:24
BLANK TEST	0.000	12:25

