

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100671

Analyst(s): C. O. Bryant

Start Date: 1/25/23

Date Received: 1/25/23

Reason for instrument evaluation

Touch screen not working

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): 29.39 Temperature (C): 22.3 Relative Humidity (%) 21

Linearity Test (attached)

0.020g/210L Mnf: Argas Lot: AG217902 Exp: 6/28/24

0.080g/210L Mnf: Argas Lot: AG113402 Exp: 5/14/23

0.300g/210L Mnf: Argas Lot: AG217903 Exp: 6/28/24

Notes

No issues with the touchscreen not responding.

- 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: 1/25/23

LINEARITY CHECK

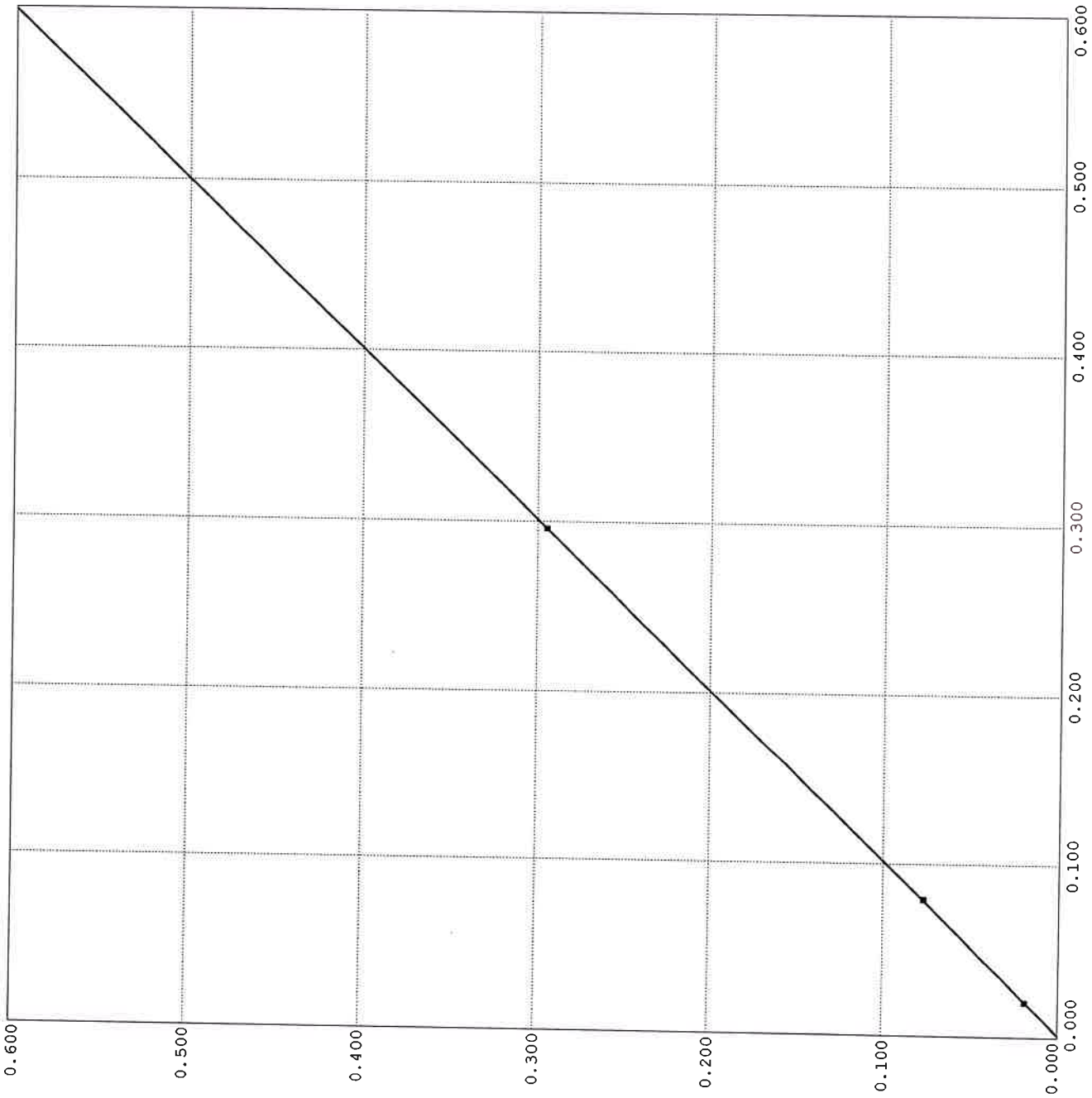
Alaska Department of Public Safety
DATAMASTER dmt: 100671

Date: 01/25/2023
Time: 11:18:58

SUPERVISOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0196	0.0005
0.079	0.0778	0.0004
0.295	0.2954	0.0005

SLOPE = 1.004122
R² = 0.999987



MO

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100671

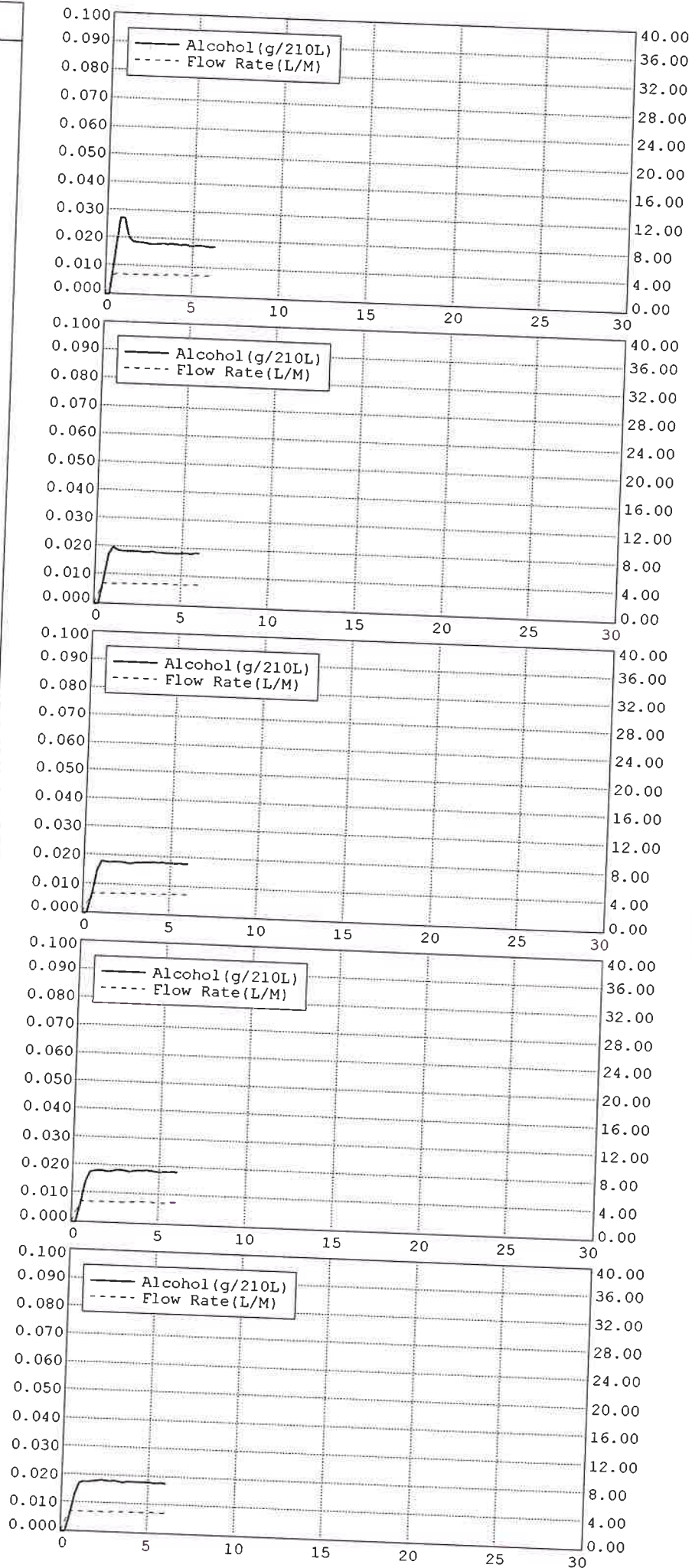
Date: 01/25/2023
 Time: 11:19:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.39: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 907 psi

BLANK TEST	0.000	11:20
INTERNAL STANDARD	VERIFIED	11:20
EXTERNAL STANDARD	0.019	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.020	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.020	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.020	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.019	11:24
BLANK TEST	0.000	11:25

Average = 0.0196
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100671

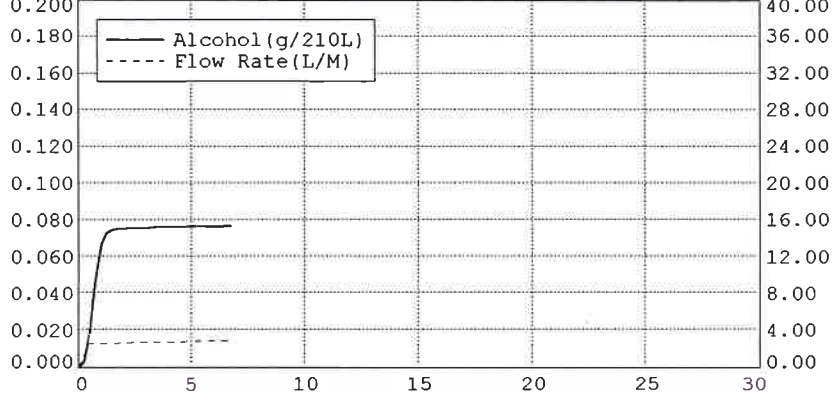
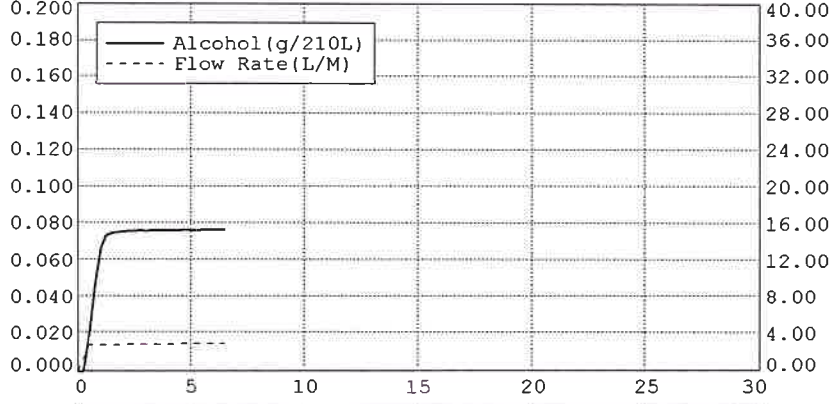
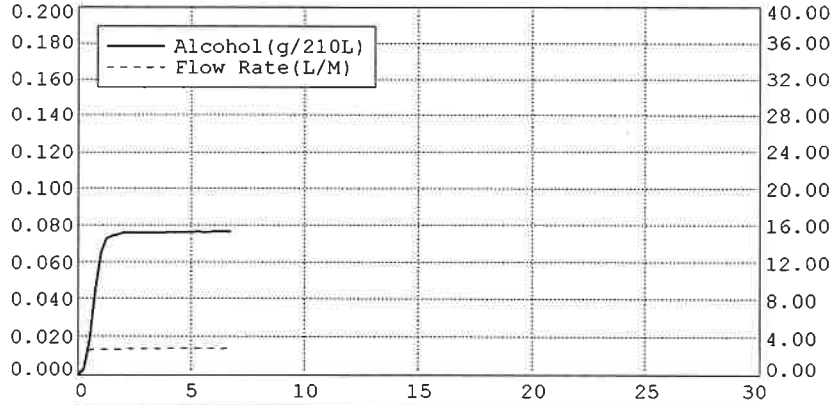
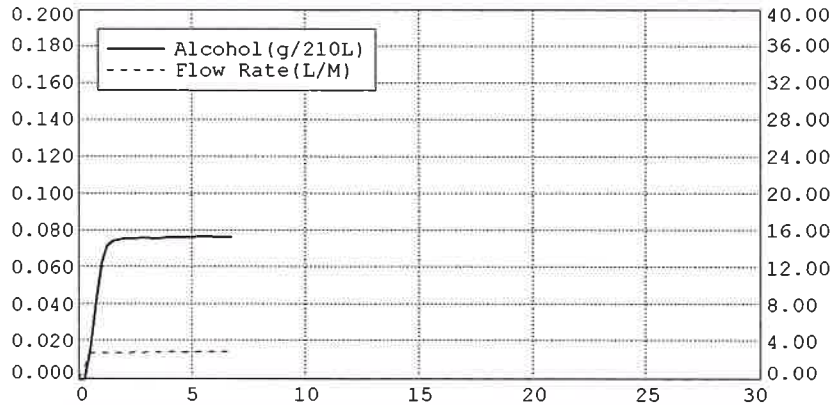
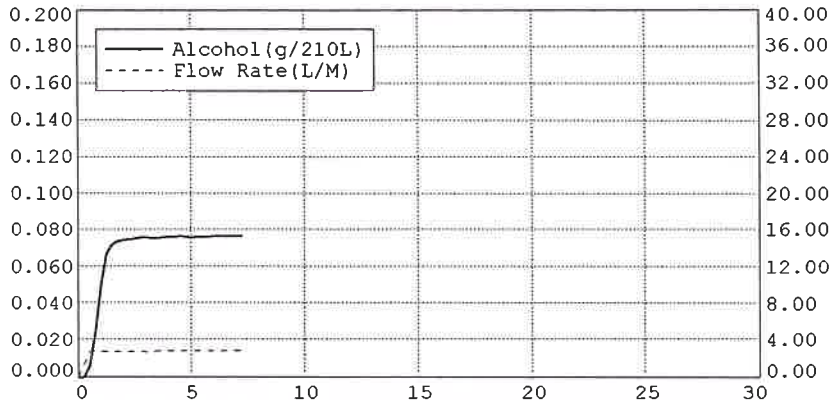
Date: 01/25/2023
 Time: 11:26:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.40: 0.079
 LOT #: AG113402
 EXPIRATION: 05/14/2023
 TANK PRESSURE: 698 psi

BLANK TEST	0.000	11:27
INTERNAL STANDARD	VERIFIED	11:27
EXTERNAL STANDARD	0.077	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.078	11:29
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.078	11:30
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.078	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.078	11:32
BLANK TEST	0.000	11:33

Average = 0.0778
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100671

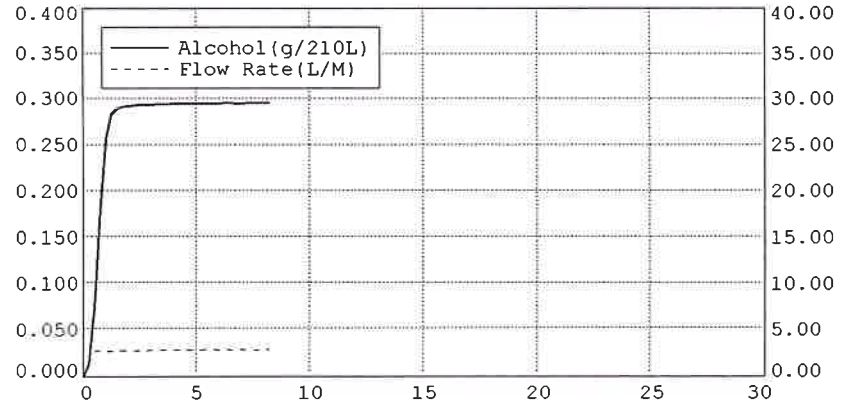
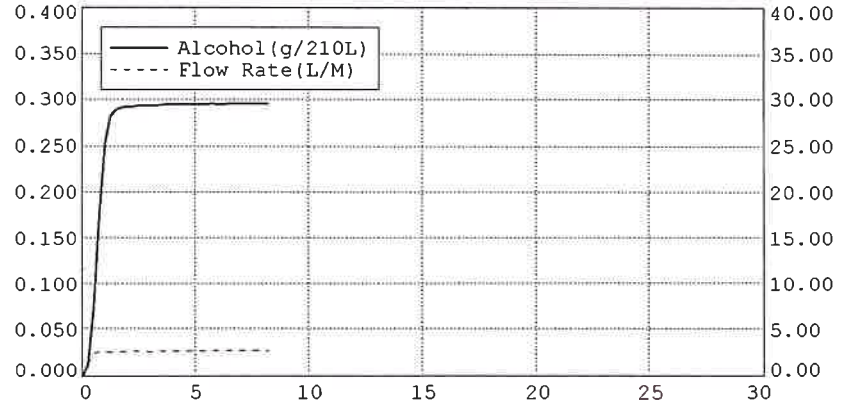
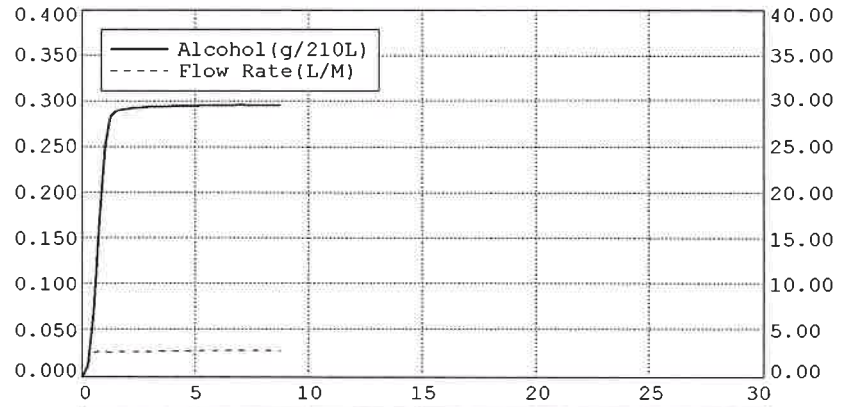
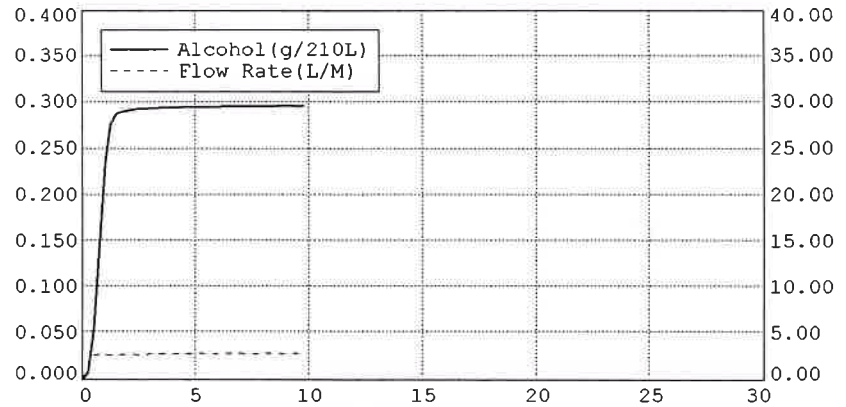
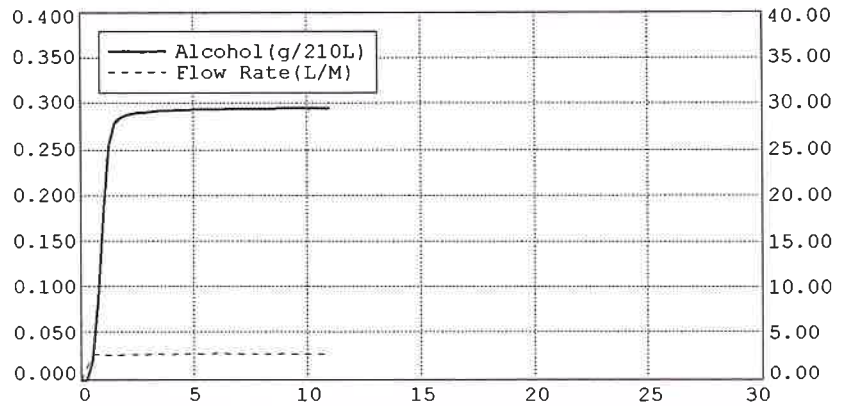
Date: 01/25/2023
 Time: 11:34:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.41: 0.295
 LOT #: AG217903
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 471 psi

BLANK TEST	0.000	11:35
INTERNAL STANDARD	VERIFIED	11:35
EXTERNAL STANDARD	0.295	11:36
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.296	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.296	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.295	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.295	11:41
BLANK TEST	0.000	11:41

Average = 0.2954
 Std Dev = 0.0005



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/25/2023

Serial #: 100671

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.41: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 675 psi

BLANK TEST	0.000	11:51
INTERNAL STANDARD	VERIFIED	11:51
Xq = 0.100	10.89%	
EXTERNAL STANDARD	0.078	11:52
X[1] = 0.0781 (-0.0029)	(0.0008)	
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.078	11:53
X[1] = 0.0780 (-0.0028)	(0.0017)	
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.078	11:54
X[1] = 0.0785 (-0.0014)	(0.0012)	
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.078	11:55
X[1] = 0.0778 (-0.0026)	(0.0017)	
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.078	11:56
X[1] = 0.0782 (-0.0018)	(0.0008)	
BLANK TEST	0.000	11:57

Average = 0.0780
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.66 V PASSED
(1.01 V - 2.37 V)
Cooler Voltage = 1.78 V PASSED
(1.00 V - 2.32 V)
Bias Voltage = 78 V PASSED
(47 V - 111 V)
Chopper Freq = 513 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.4 in

PUMP INFO

Flow Rate = 4.688 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
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.100 1.69% (0.00% - 4.00%) PASSED

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100671

Date: 01/25/2023
Time: 12:00:37

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

OPERATOR NAME:
COLLEEN S OBRyant
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1

CASE/REPORT: 23-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.42: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:01
BLANK TEST	0.000	12:01
INTERNAL STANDARD	VERIFIED	12:02
EXTERNAL STANDARD	0.078	12:02
BLANK TEST	0.000	12:03
SUBJECT SAMPLE (Vol=2.52L)	0.000	12:03
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.078	12:04
BLANK TEST	0.000	12:05

Alcohol (g/210L)
Flow Rate (L/M)
Min. Flow Rate (L/M)

