

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100404
Start Date: 2/22/23
Date Received: 2/22/23

Analyst(s): C. O'Bryant

Reason for instrument evaluation

Agency no longer had a BTS or BTU

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): 30.19 Temperature (C): 21.6 Relative Humidity (%) 13

Linearity Test (attached)

0.020g/210L Mnf: <u>Argas</u>	Lot: <u>AG217902</u>	Exp: <u>6/28/24</u>
0.080g/210L Mnf: <u>Argas</u>	Lot: <u>AG113402</u>	Exp: <u>5/14/23</u>
0.300g/210L Mnf: <u>Argas</u>	Lot: <u>AG217903</u>	Exp: <u>6/28/24</u>

Notes

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

Condition of item: Good Needs Repair

- Ready for Adjustment
- Ready for Calibration

End Date: 2/22/23

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

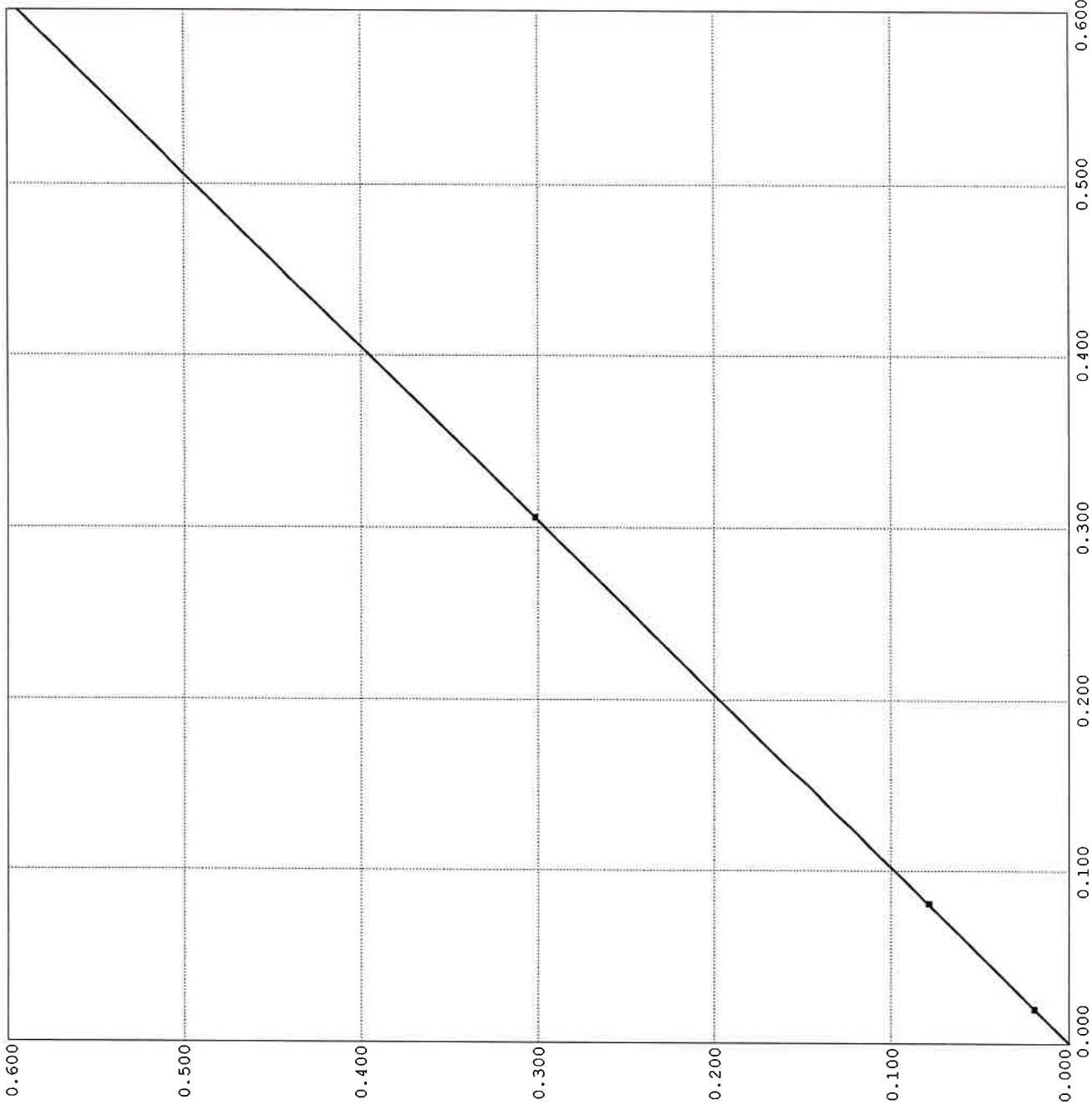
Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 02/22/2023
Time: 15:46:36

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.081	0.0798	0.0004
0.305	0.3022	0.0004

SLOPE = 0.990900
R² = 0.999995



Handwritten signature or initials, possibly 'CMB', located in the bottom right corner of the page.

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100404

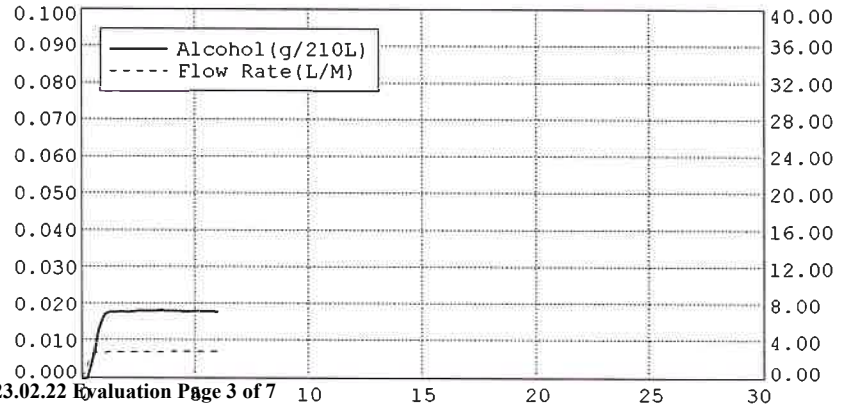
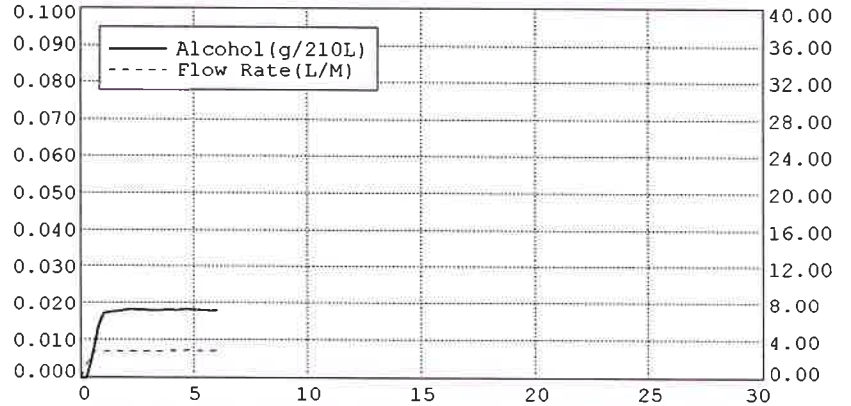
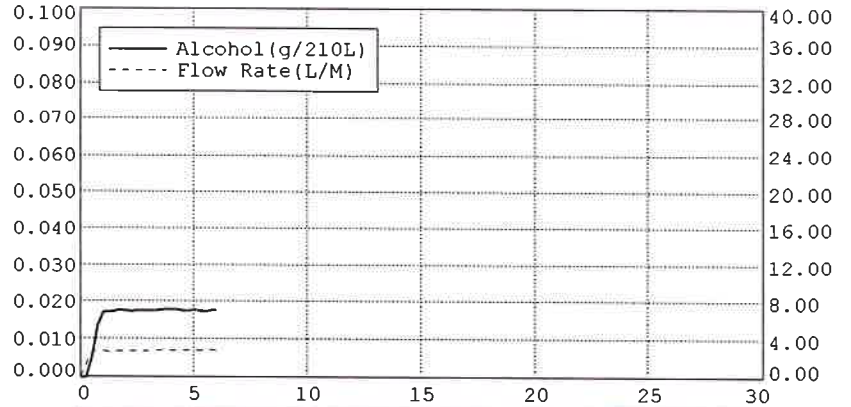
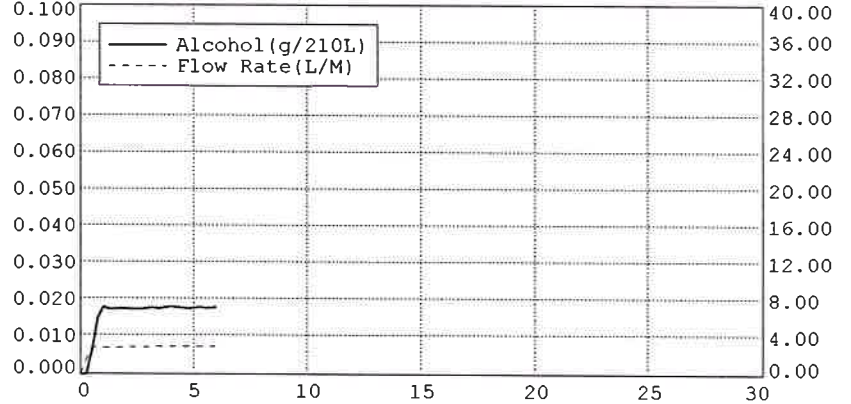
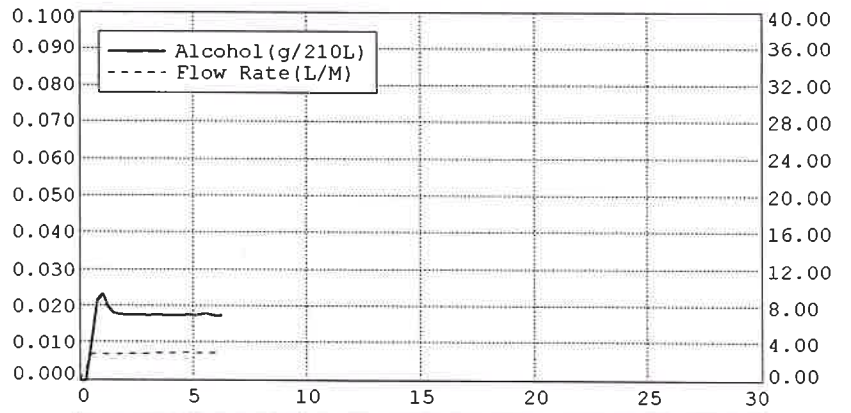
Date: 02/22/2023
Time: 15:46:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 30.45: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 856 psi

BLANK TEST	0.000	15:47
INTERNAL STANDARD	VERIFIED	15:47
EXTERNAL STANDARD	0.020	15:48
BLANK TEST	0.000	15:49
EXTERNAL STANDARD	0.020	15:49
BLANK TEST	0.000	15:50
EXTERNAL STANDARD	0.020	15:50
BLANK TEST	0.000	15:51
EXTERNAL STANDARD	0.020	15:51
BLANK TEST	0.000	15:52
EXTERNAL STANDARD	0.020	15:52
BLANK TEST	0.000	15:53

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100404

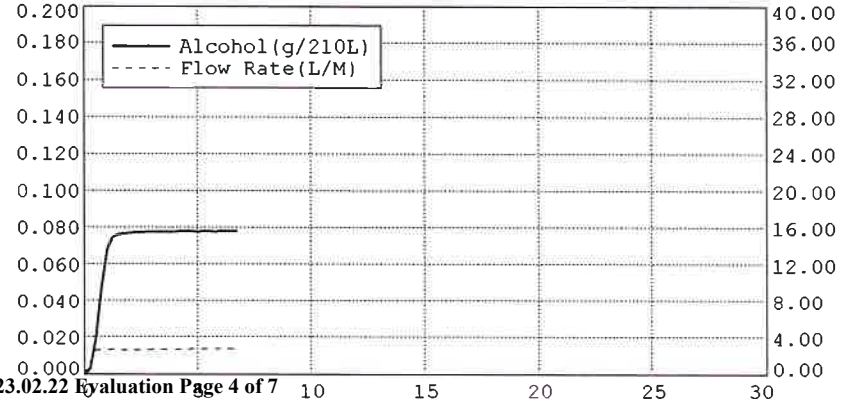
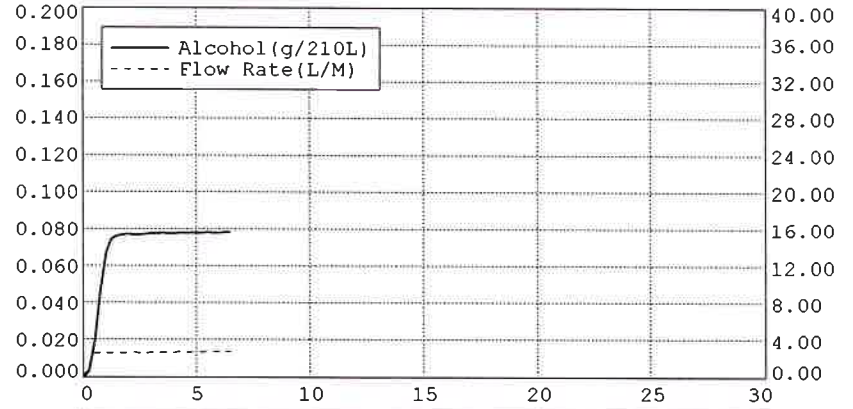
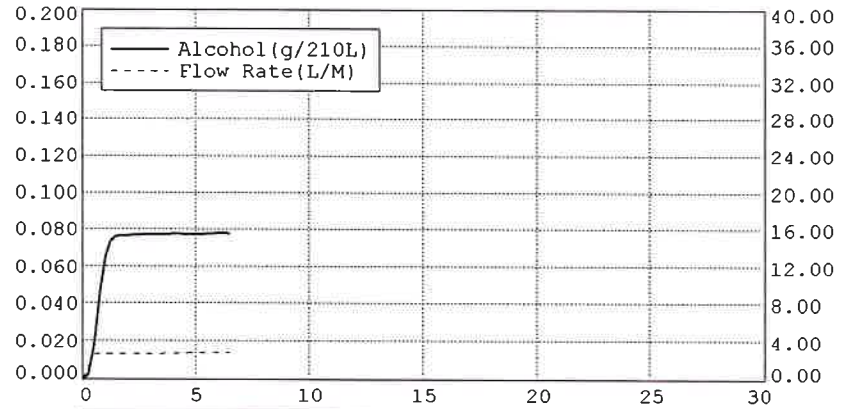
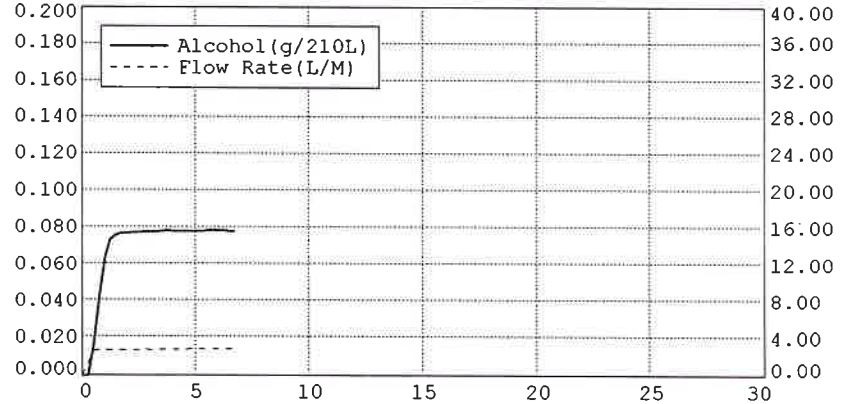
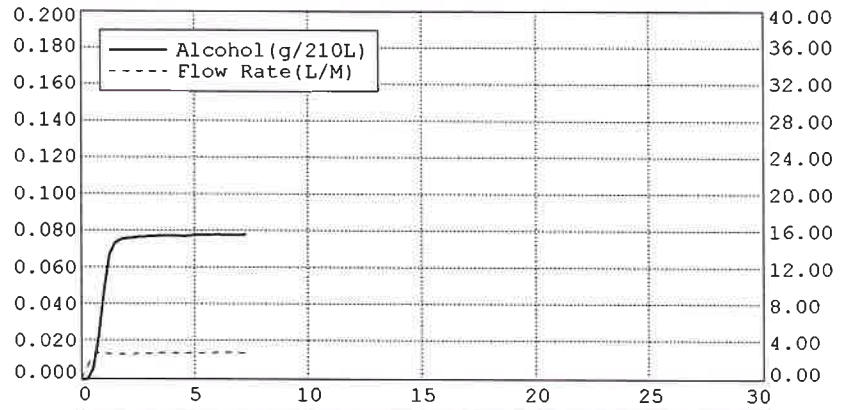
Date: 02/22/2023
 Time: 15:56:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 30.45: 0.081
 LOT #: AG113402
 EXPIRATION: 05/14/2023
 TANK PRESSURE: 530 psi

BLANK TEST	0.000	15:57
INTERNAL STANDARD	VERIFIED	15:58
EXTERNAL STANDARD	0.080	15:58
BLANK TEST	0.000	15:59
EXTERNAL STANDARD	0.080	15:59
BLANK TEST	0.000	16:00
EXTERNAL STANDARD	0.079	16:00
BLANK TEST	0.000	16:01
EXTERNAL STANDARD	0.080	16:01
BLANK TEST	0.000	16:02
EXTERNAL STANDARD	0.080	16:02
BLANK TEST	0.000	16:03

Average = 0.0798
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100404

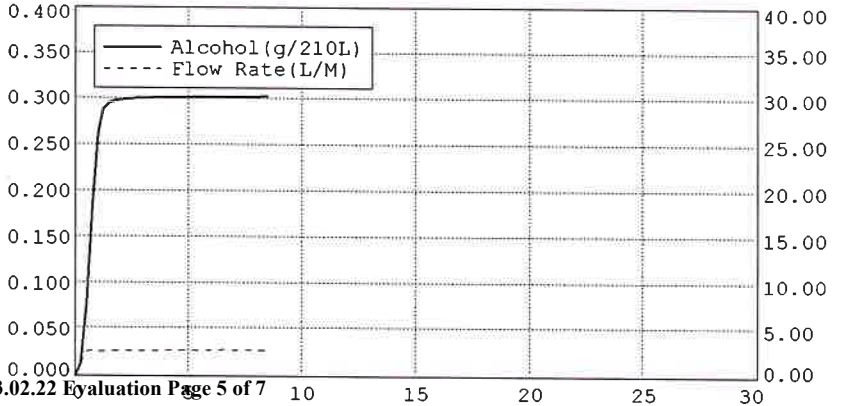
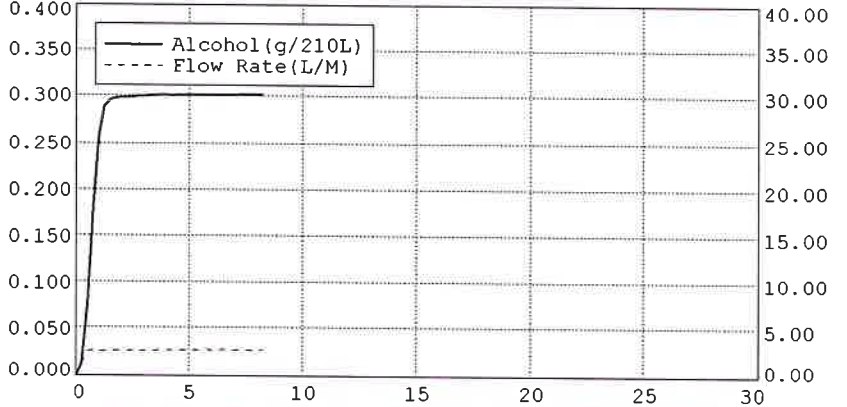
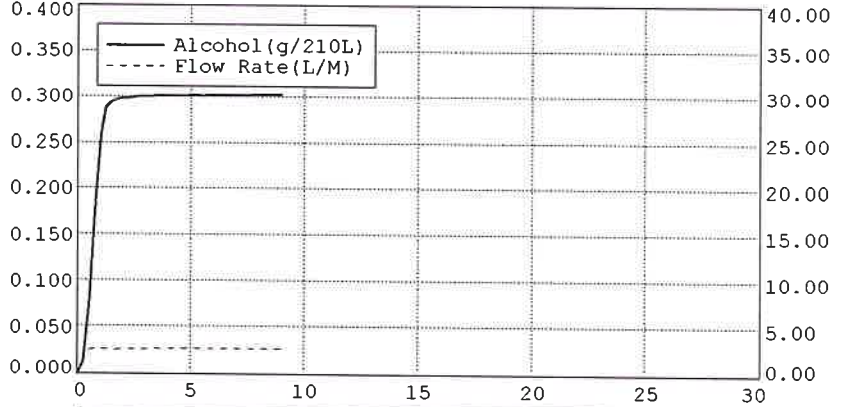
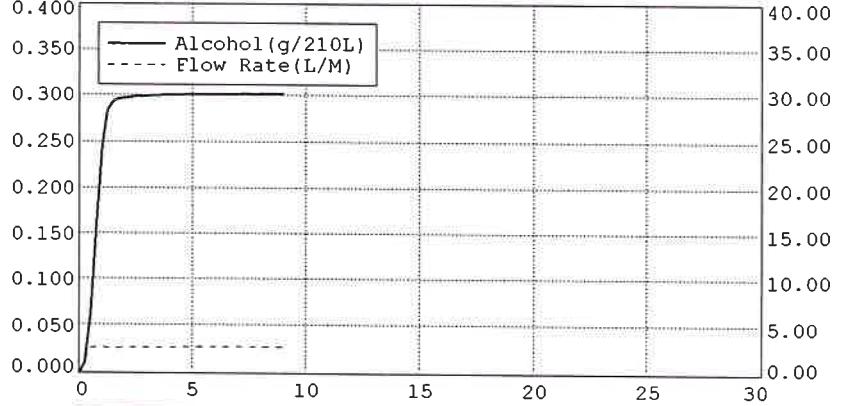
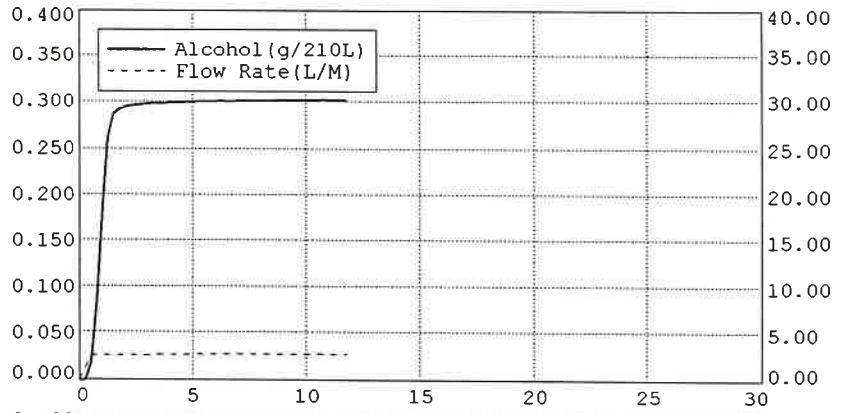
Date: 02/22/2023
Time: 16:06:24

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 30.45: 0.305
LOT #: AG217903
EXPIRATION: 06/28/2024
TANK PRESSURE: 416 psi

BLANK TEST	0.000	16:07
INTERNAL STANDARD	VERIFIED	16:07
EXTERNAL STANDARD	0.302	16:08
BLANK TEST	0.000	16:08
EXTERNAL STANDARD	0.302	16:09
BLANK TEST	0.000	16:10
EXTERNAL STANDARD	0.303	16:10
BLANK TEST	0.000	16:11
EXTERNAL STANDARD	0.302	16:11
BLANK TEST	0.000	16:12
EXTERNAL STANDARD	0.302	16:12
BLANK TEST	0.000	16:13

Average = 0.3022
Std Dev = 0.0004



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100404

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/22/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.42: 0.081
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 512 psi

BLANK TEST	0.000	16:29
INTERNAL STANDARD	VERIFIED	16:29
Xq = 0.089	(0.69%)	
EXTERNAL STANDARD	0.080	16:29
X[1] = 0.0804	(-0.0040) (0.0017)	
BLANK TEST	0.000	16:30
EXTERNAL STANDARD	0.080	16:30
X[1] = 0.0804	(-0.0030) (0.0016)	
BLANK TEST	0.000	16:31
EXTERNAL STANDARD	0.080	16:31
X[1] = 0.0801	(-0.0037) (0.0016)	
BLANK TEST	0.000	16:32
EXTERNAL STANDARD	0.080	16:33
X[1] = 0.0801	(-0.0037) (0.0015)	
BLANK TEST	0.000	16:33
EXTERNAL STANDARD	0.080	16:34
X[1] = 0.0798	(-0.0034) (0.0020)	
BLANK TEST	0.000	16:35

Average = 0.0800
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.77 V PASSED
(1.06 V - 2.48 V)
Cooler Voltage = 1.73 V PASSED
(1.01 V - 2.35 V)
Bias Voltage = 82 V PASSED
(49 V - 115 V)
Chopper Freq = 529 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.4 in

PUMP INFO

Flow Rate = 4.658 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 = 0.090 (1.08%) (0.00% - 4.00%) PASSED

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 02/22/2023
Time: 16:36:08

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

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 30.41: 0.081
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	16:37
BLANK TEST	0.000	16:37
INTERNAL STANDARD	VERIFIED	16:37
EXTERNAL STANDARD	0.080	16:37
BLANK TEST	0.000	16:38
SUBJECT SAMPLE (Vol=2.02L)	0.000	16:39
BLANK TEST	0.000	16:40
EXTERNAL STANDARD	0.080	16:40
BLANK TEST	0.000	16:41

