

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100415

Analyst(s): Tatiana Malnoske

Start Date: 03-08-2023

Date Received: 02-27-2023

Reason for instrument evaluation

DUC FOR PREVENTATIVE MAINTENANCE ON 06-24-2023

### 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): 29.97 Temperature (C): 22.7 Relative Humidity (%) 14%

Linearity Test (attached)

0.020g/210L Mnf: <u>Airgas</u>	Lot: <u>A6217902</u>	Exp: <u>06-28-2024</u>
0.080g/210L Mnf: <u>Airgas</u>	Lot: <u>A6135004</u>	Exp: <u>12-16-2023</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>A6217903</u>	Exp: <u>06-28-2024</u>

Notes

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- 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: 03-08-2023

LINEARITY CHECK

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Alaska Department of Public Safety  
DATAMASTER dmt: 100415  
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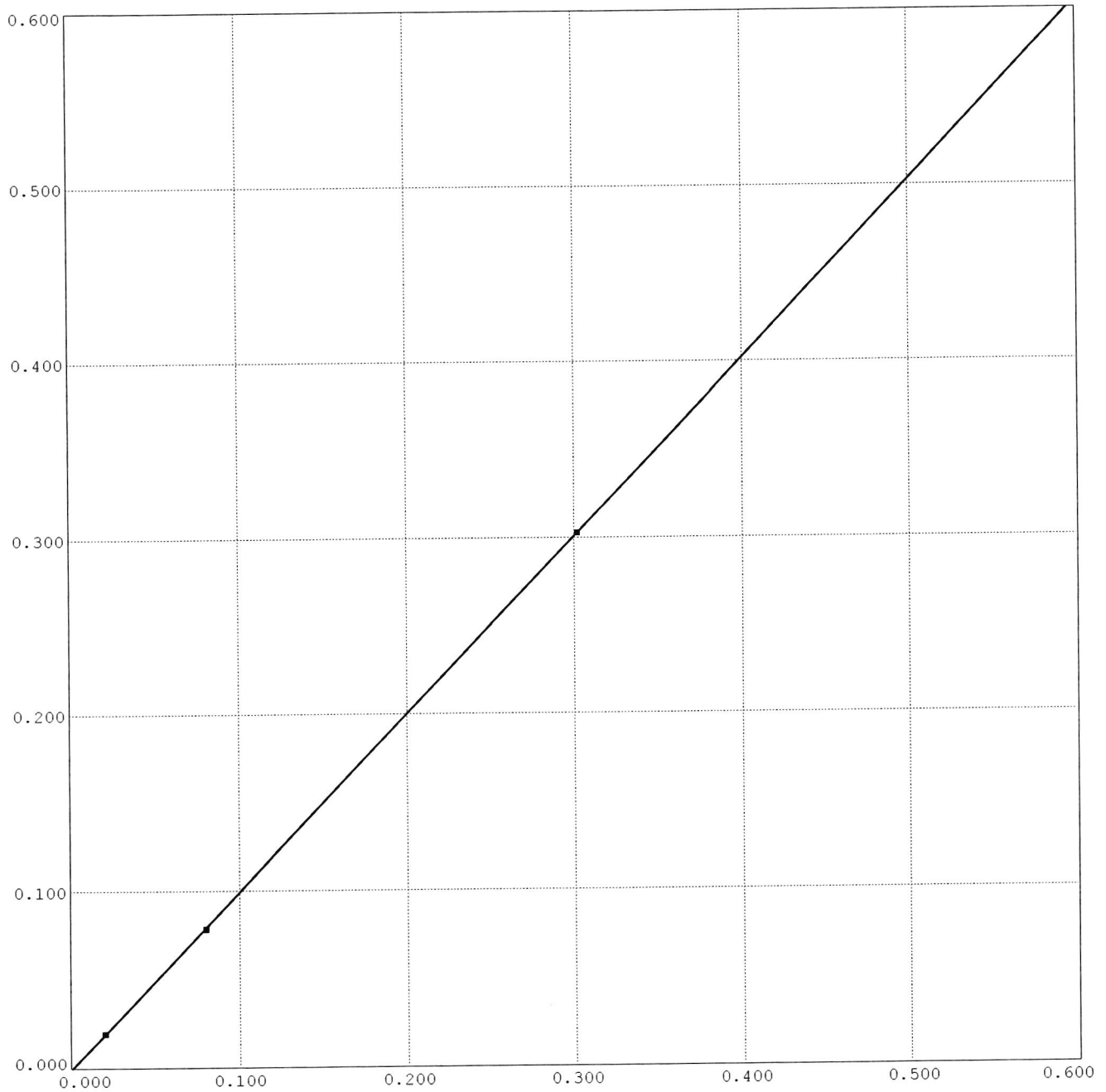
Date: 03/08/2023  
Time: 12:44:14

SUPERVISOR NAME:  
TATIANA MALNOSKE  
OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.080	0.0794	0.0005
0.301	0.3034	0.0011

SLOPE = 1.009904  
R<sup>2</sup> = 0.999983

TLM



LINEARITY CHECK: Control Test 1

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 Alaska Department of Public Safety  
 DATAMASTER dmt: 100415  
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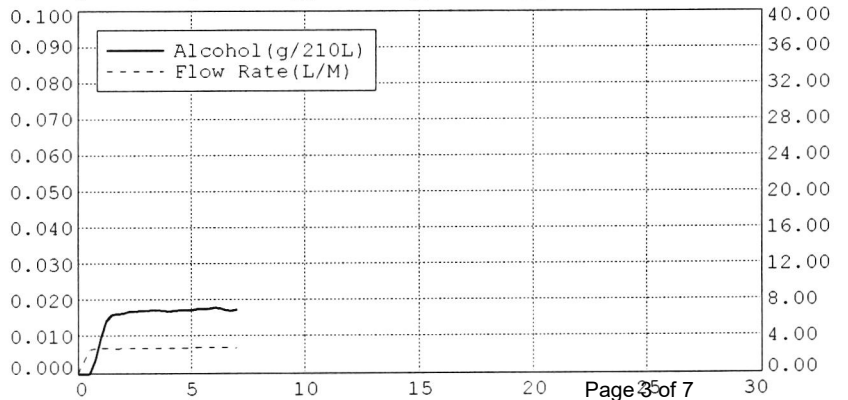
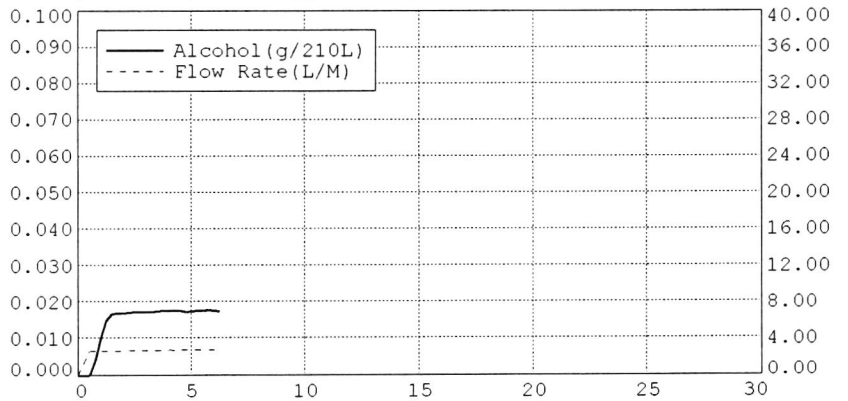
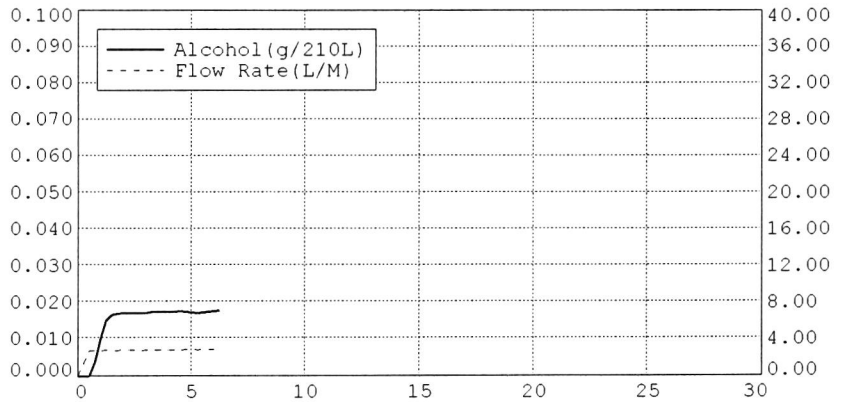
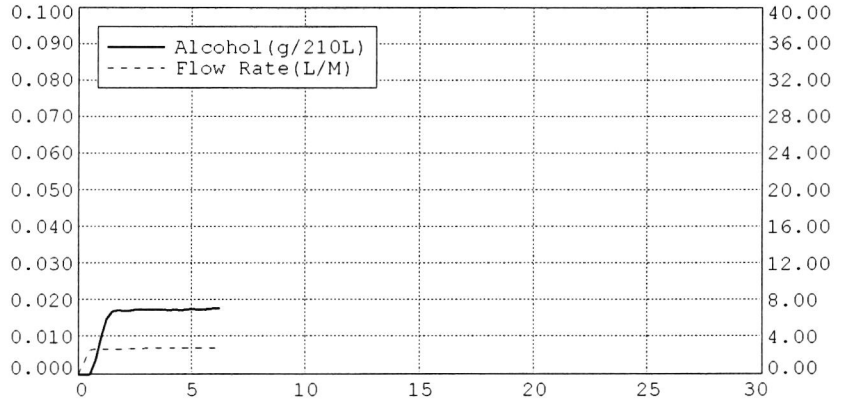
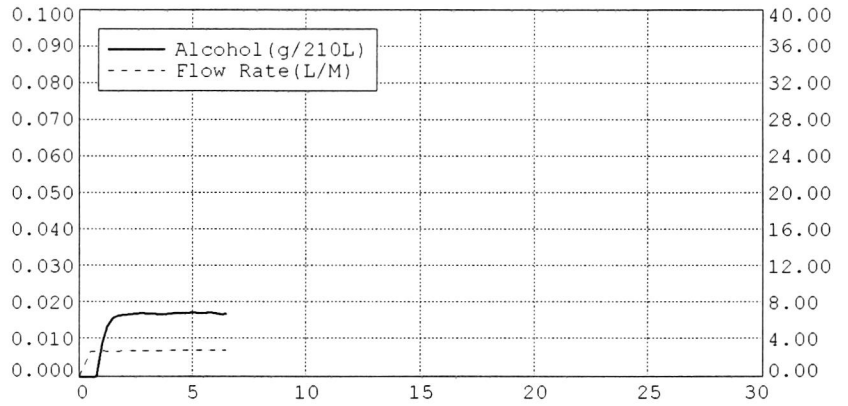
Date: 03/08/2023  
 Time: 12:44:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 30.00: 0.020  
 LOT #: AG217902  
 EXPIRATION: 06/28/2024  
 TANK PRESSURE: 1046 psi

BLANK TEST	0.000	12:46
INTERNAL STANDARD	VERIFIED	12:47
EXTERNAL STANDARD	0.020	12:47
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.020	12:48
BLANK TEST	0.000	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

Average = 0.0200  
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100415

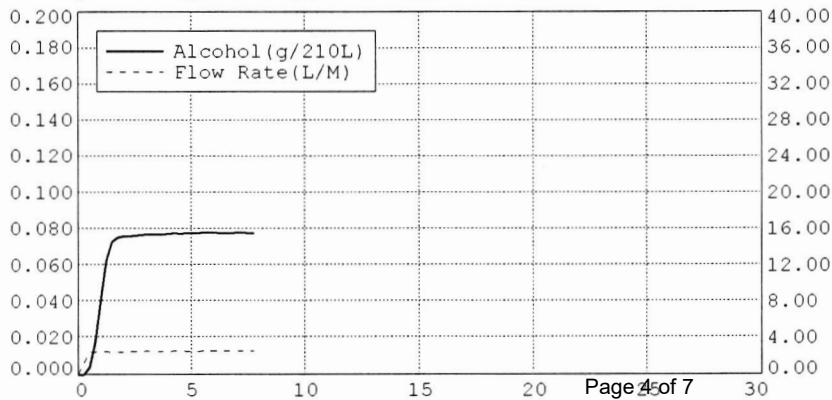
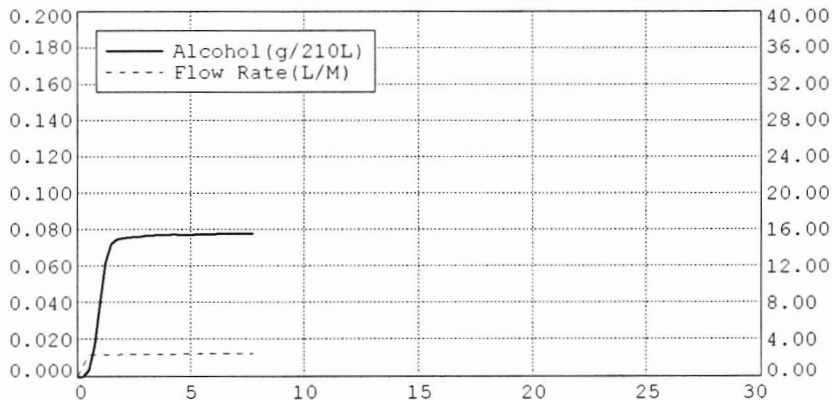
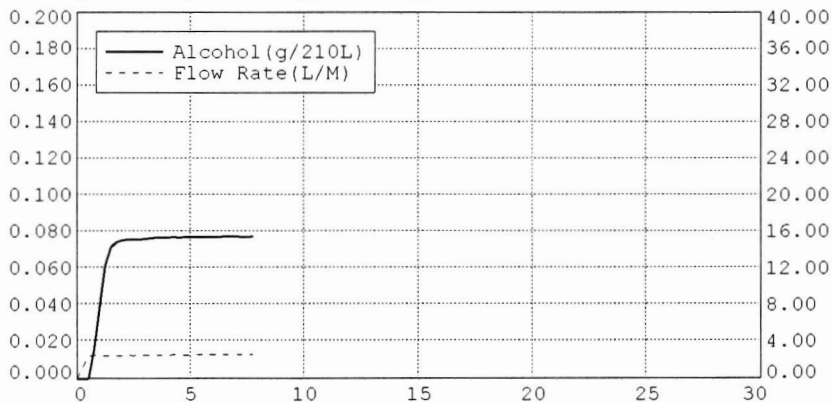
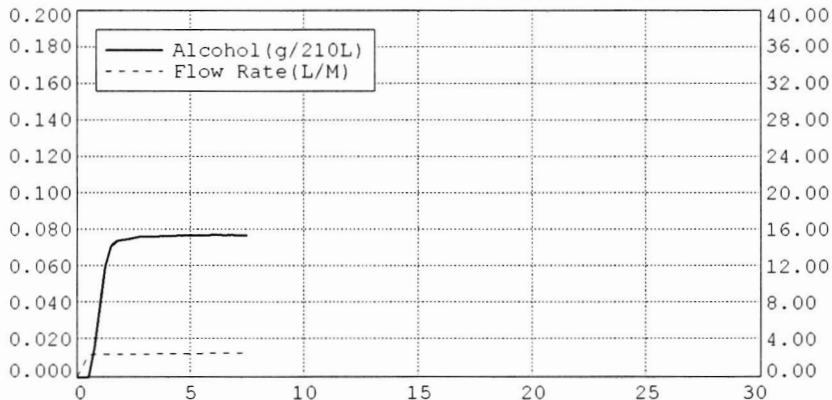
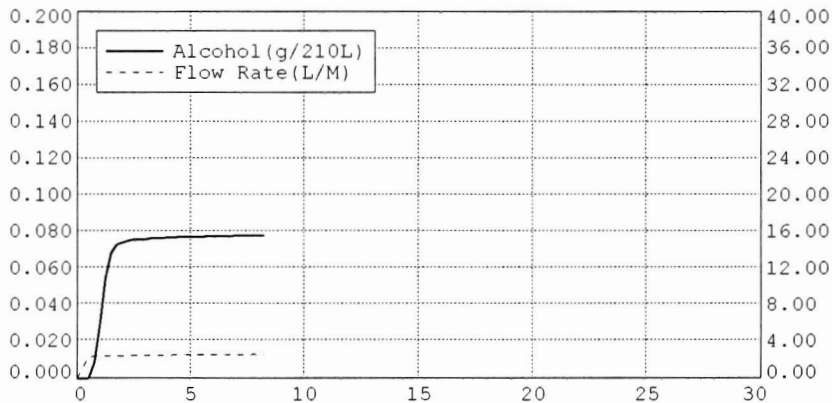
Date: 03/08/2023  
 Time: 12:53:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 30.00: 0.080  
 LOT #: AG135004  
 EXPIRATION: 12/16/2023  
 TANK PRESSURE: 508 psi

BLANK TEST	0.000	12:54
INTERNAL STANDARD	VERIFIED	12:54
EXTERNAL STANDARD	0.079	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.079	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.079	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.080	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.080	12:59
BLANK TEST	0.000	13:00

Average = 0.0794  
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

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Alaska Department of Public Safety  
DATAMASTER dmt: 100415  
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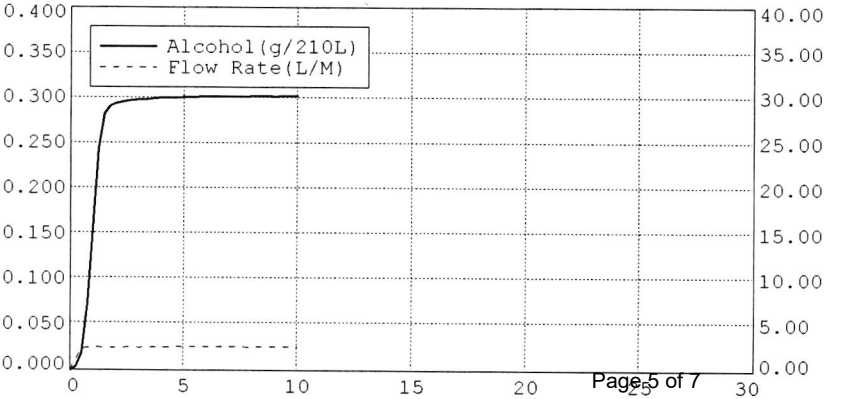
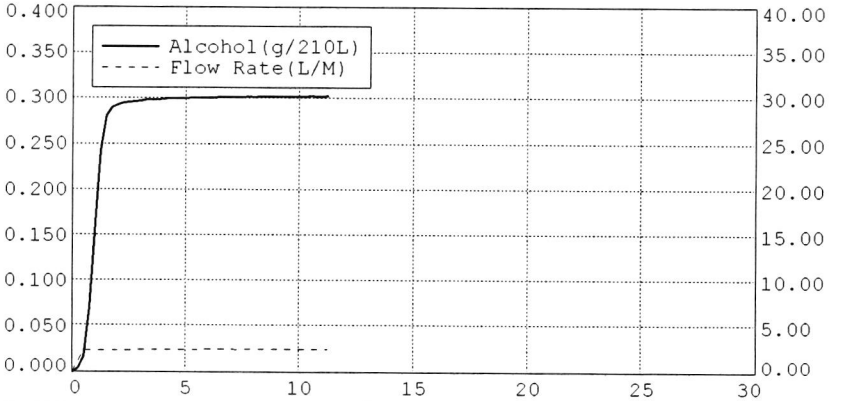
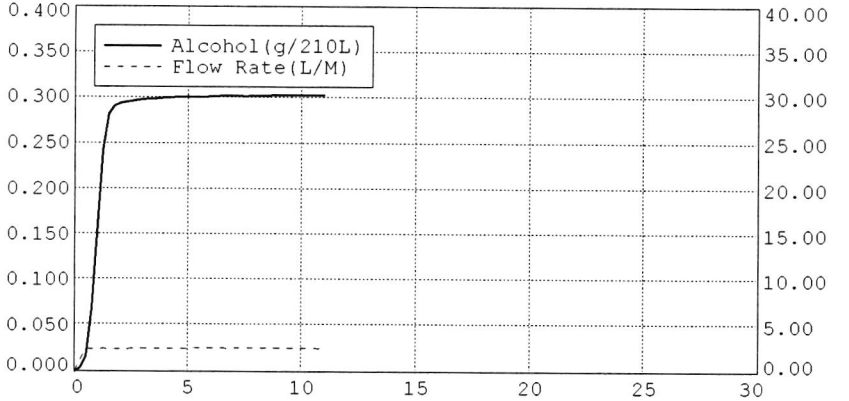
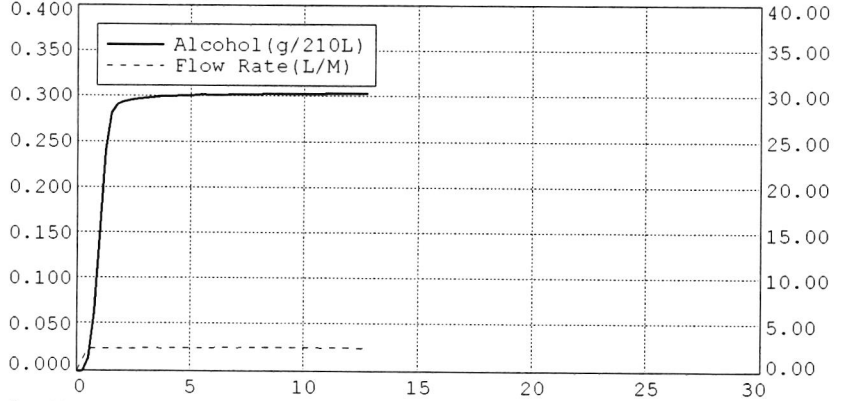
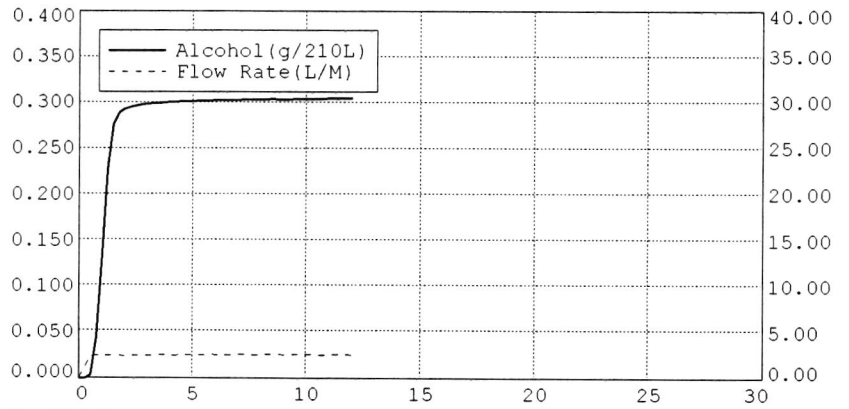
Date: 03/08/2023  
Time: 13:00:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 30.00: 0.301  
LOT #: AG217903  
EXPIRATION: 06/28/2024  
TANK PRESSURE: 443 psi

BLANK TEST	0.000	13:02
INTERNAL STANDARD	VERIFIED	13:02
EXTERNAL STANDARD	0.305	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.304	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.303	13:05
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.302	13:06
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.303	13:07
BLANK TEST	0.000	13:08

Average = 0.3034  
Std Dev = 0.0011



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100415

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/08/2023

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 30.00: 0.080  
LOT #: AG135004  
EXPIRATION: 12/16/2023  
TANK PRESSURE: 486 psi

BLANK TEST	0.000	13:13
INTERNAL STANDARD	VERIFIED	13:14
Xq = 0.101 (0.52%)		
EXTERNAL STANDARD	0.079	13:14
X[1] = 0.0793 (-0.0020) (0.0007)		
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.079	13:15
X[1] = 0.0794 (-0.0017) (0.0005)		
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.080	13:16
X[1] = 0.0795 (-0.0025) (0.0000)		
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.079	13:17
X[1] = 0.0795 (-0.0008) (0.0005)		
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.079	13:19
X[1] = 0.0794 (-0.0013) (0.0007)		
BLANK TEST	0.000	13:19

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 = 48.6°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.7°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.81 V	PASSED
(1.04 V - 2.42 V)	
Cooler Voltage = 1.78 V	PASSED
(1.04 V - 2.42 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 520 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.0 in	

### PUMP INFO

Flow Rate = 5.003 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.007 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 1.04%	PASSED
(0.00% - 4.00%)	

SUBJECT TEST

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Alaska Department of Public Safety  
DATAMASTER dmt: 100415  
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Date: 03/08/2023  
Time: 15:42:59

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXX

OPERATOR NAME:  
TATIANA MALNOSKE  
OPERATOR'S #: 10437

DEPT/AGENCY:  
NON DRINKING SUBJECT TEST  
CASE/REPORT: XXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.97: 0.080  
LOT #: AG135004  
EXPIRATION: 12/16/2023

DIAGNOSTIC CHECK	PASSED	15:43
BLANK TEST	0.000	15:44
INTERNAL STANDARD	VERIFIED	15:44
EXTERNAL STANDARD	0.080	15:44
BLANK TEST	0.000	15:45
SUBJECT SAMPLE (Vol=1.57L)	0.000	15:45
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.080	15:46
BLANK TEST	0.000	15:47

TLM

