

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100421

Analyst(s): Tatiana Malnoske

Start Date: 08-17-2023

Date Received: 08-16-2023

Reason for instrument evaluation

Standard out of range errors

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): 29.84 Temperature (C): 22.6 Relative Humidity (%): 39%

Linearity Test (attached)

0.020g/210L Mnf: <u>Airgas</u>	Lot: <u>AG217902</u>	Exp: <u>06-28-2024</u>
0.080g/210L Mnf: <u>Airgas</u>	Lot: <u>AGB10901</u>	Exp: <u>04-19-2025</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>AG217903</u>	Exp: <u>06-28-2024</u>

Notes

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\_\_\_\_\_  
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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: 08-17-2023

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

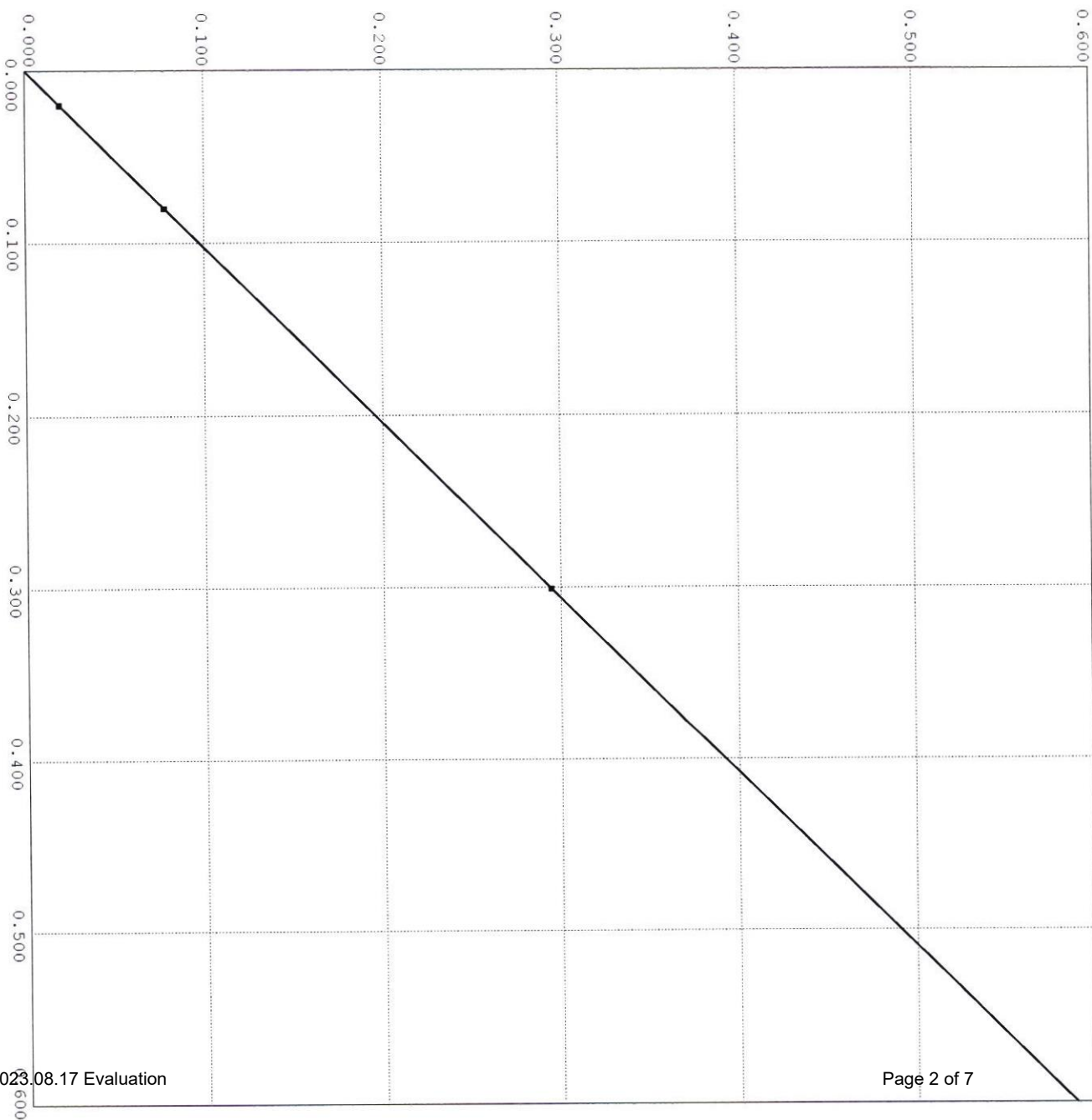
Alaska Department of Public Safety  
 DATAMASTER dnt: 100421

Date: 08/17/2023  
 Time: 14:56:45

SUPERVISOR NAME:  
 TATIANA MALNOSKE  
 OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.080	0.0788	0.0004
0.300	0.2952	0.0004

SLOPE = 0.983067  
 R<sup>2</sup> = 1.000000



END

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100421

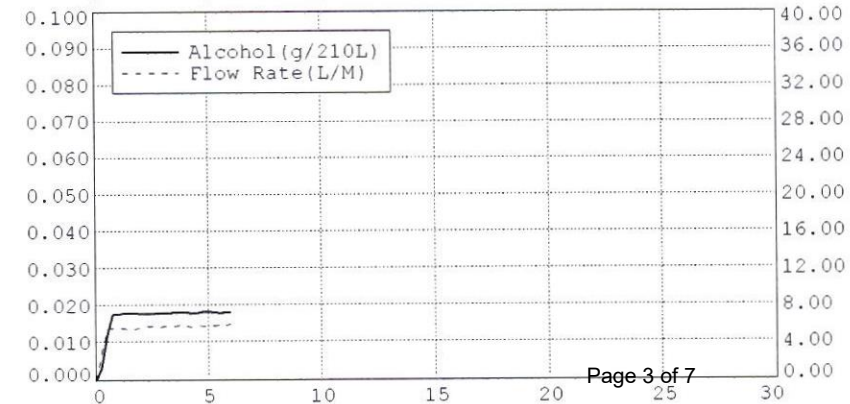
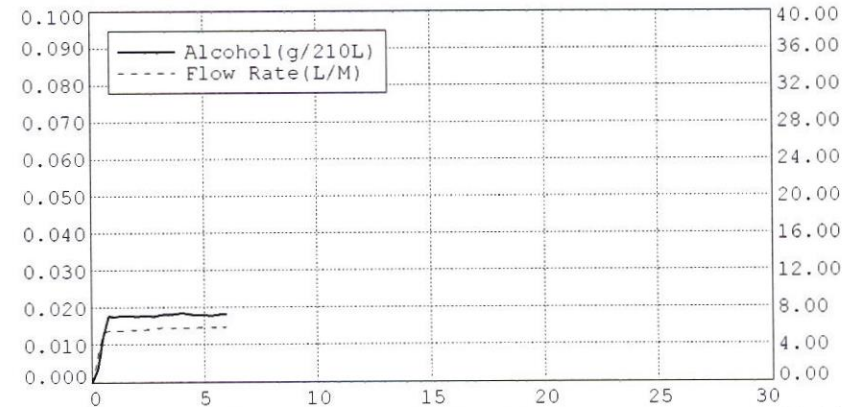
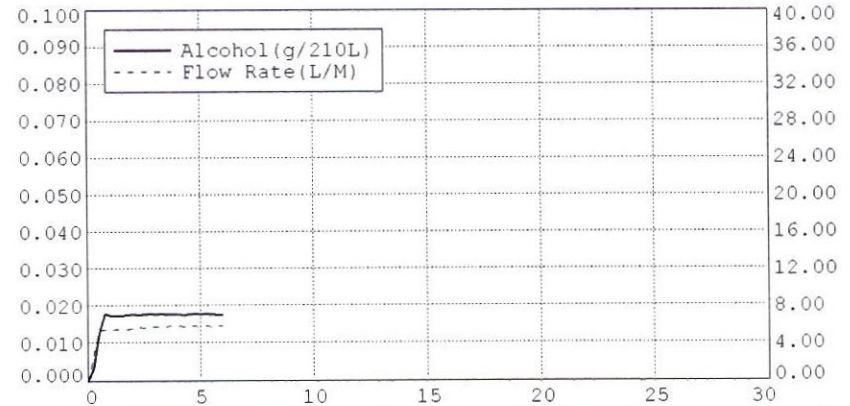
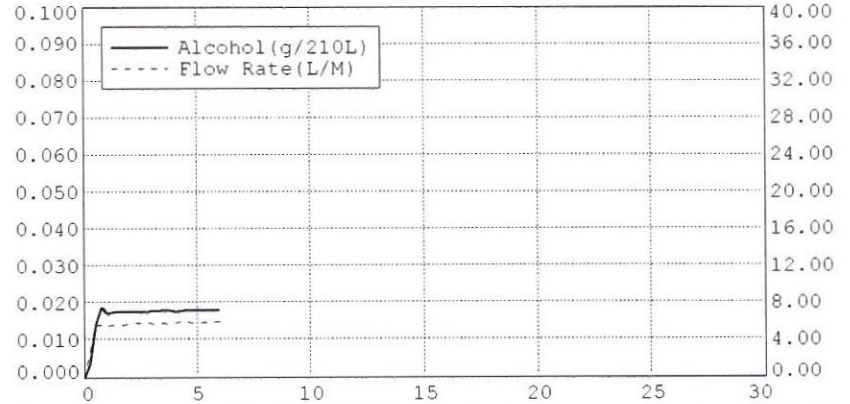
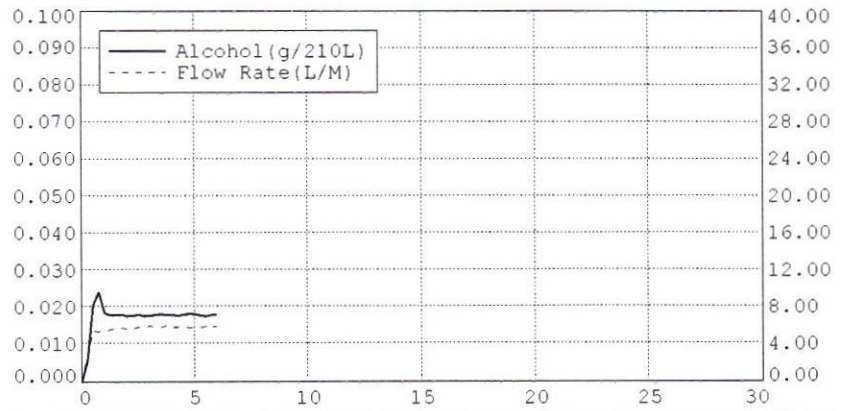
Date: 08/17/2023  
 Time: 14:56:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.87: 0.020  
 LOT #: AG217902  
 EXPIRATION: 06/28/2024  
 TANK PRESSURE: 868 psi

BLANK TEST	0.000	14:58
INTERNAL STANDARD	VERIFIED	14:58
EXTERNAL STANDARD	0.020	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.020	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.020	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.020	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.020	15:02
BLANK TEST	0.000	15:03

Average = 0.0200  
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100421

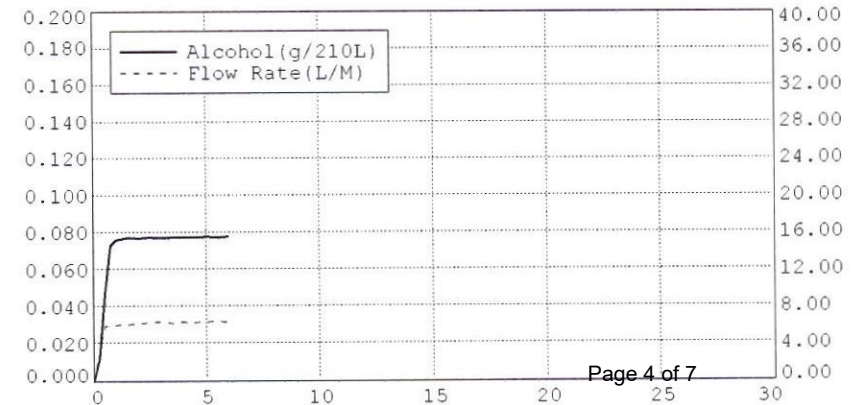
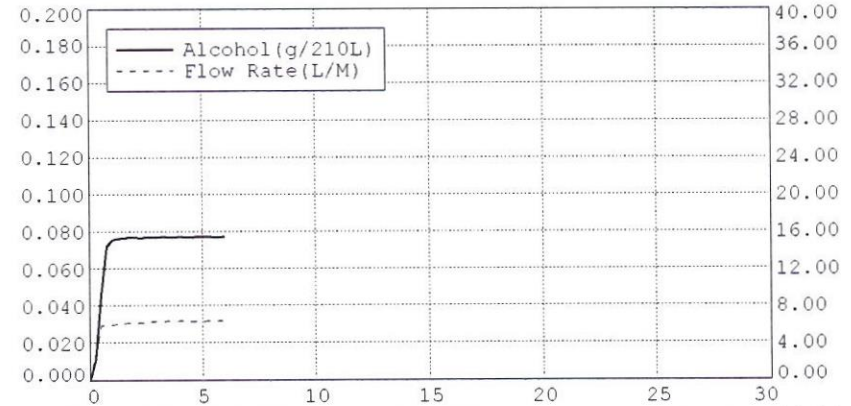
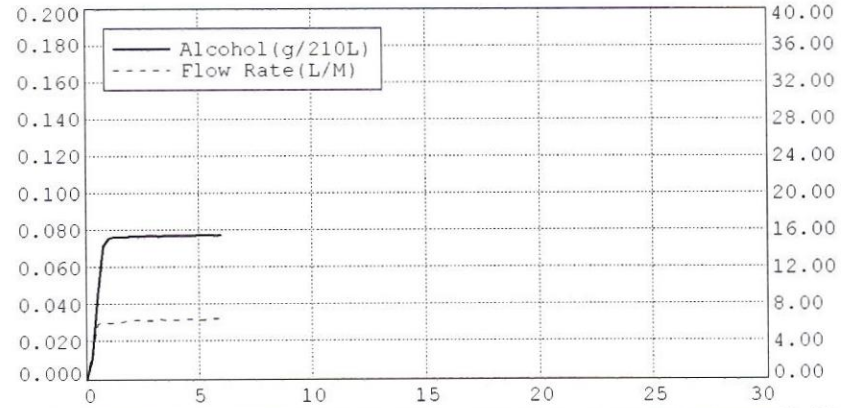
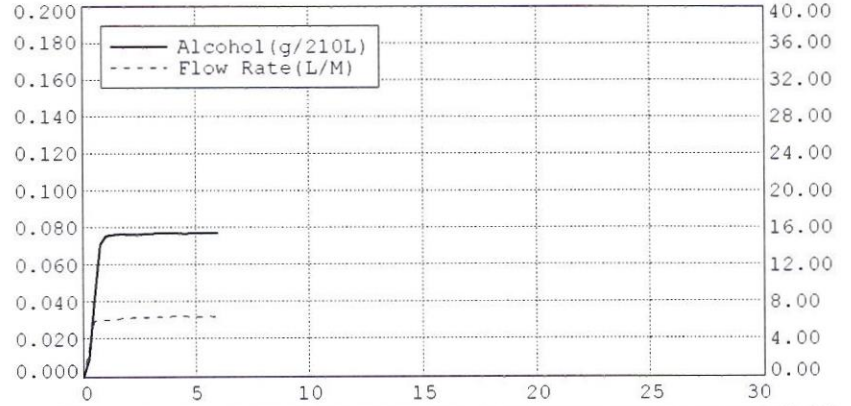
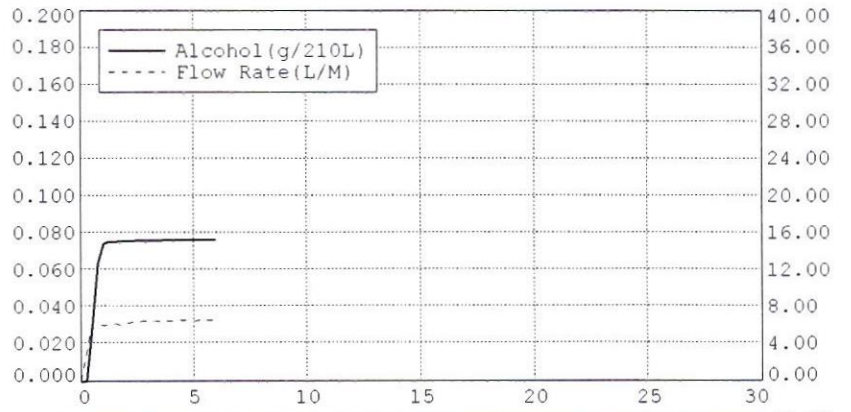
Date: 08/17/2023  
 Time: 15:04:22

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.87: 0.080  
 LOT #: AG310901  
 EXPIRATION: 04/19/2025  
 TANK PRESSURE: 1170 psi

BLANK TEST	0.000	15:05
INTERNAL STANDARD	VERIFIED	15:05
EXTERNAL STANDARD	0.078	15:05
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.079	15:06
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.079	15:08
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.079	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.079	15:10
BLANK TEST	0.000	15:11

Average = 0.0788  
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

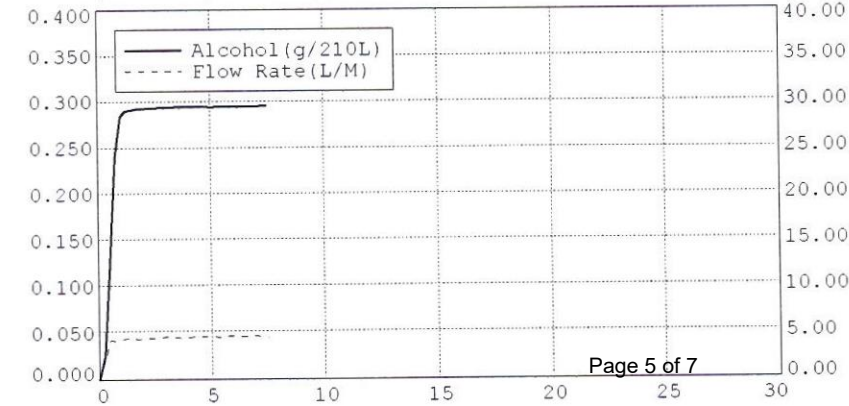
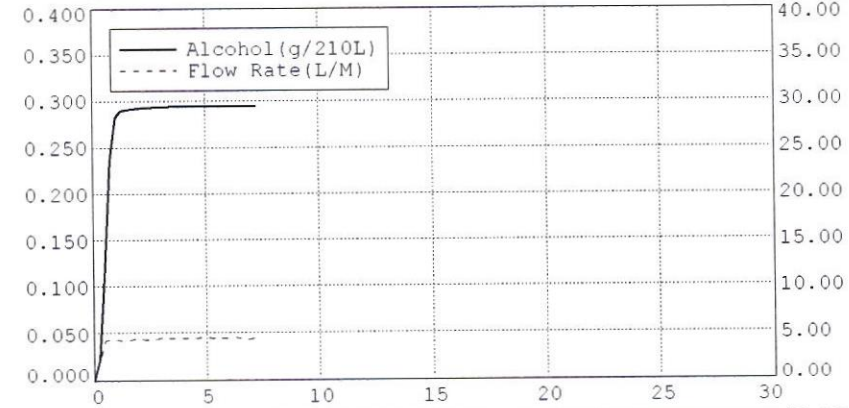
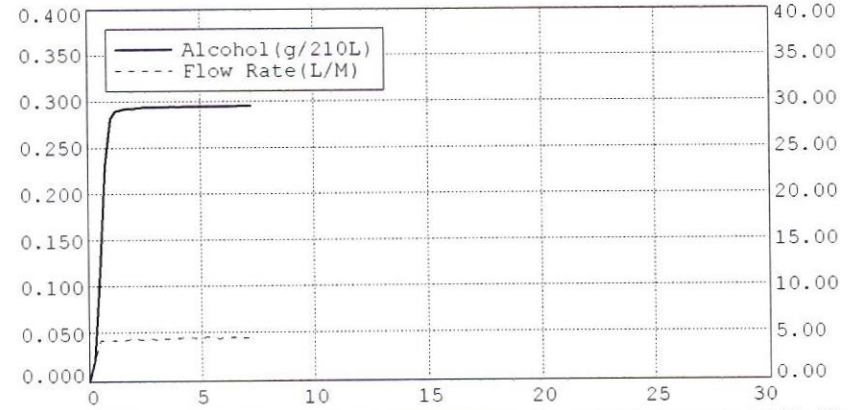
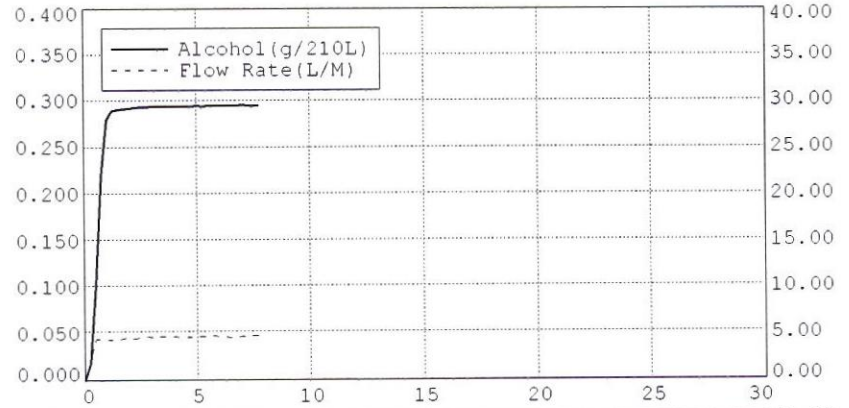
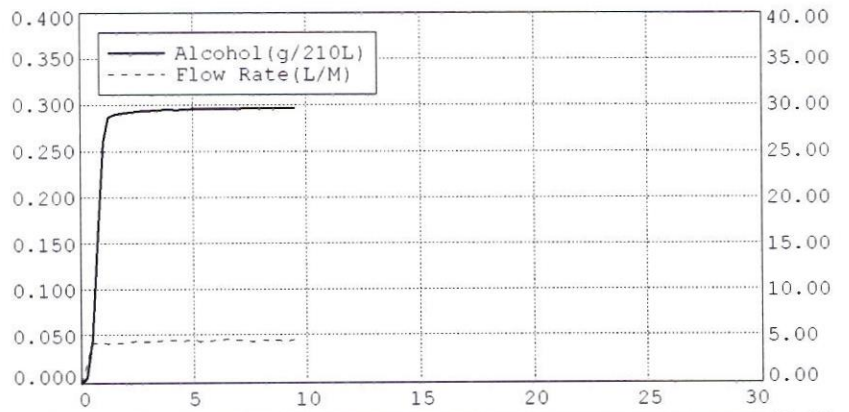
Alaska Department of Public Safety  
DATAMASTER dmt: 100421

Date: 08/17/2023  
Time: 15:13:05

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.300  
TARGET AT 29.87: 0.300  
LOT #: AGG217903.AG217903 TLM 08/22/2023  
EXPIRATION: 06/28/2024  
TANK PRESSURE: 245 psi

BLANK TEST	0.000	15:14
INTERNAL STANDARD	VERIFIED	15:14
EXTERNAL STANDARD	0.296	15:14
BLANK TEST	0.000	15:15
EXTERNAL STANDARD	0.295	15:16
BLANK TEST	0.000	15:16
EXTERNAL STANDARD	0.295	15:17
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.295	15:18
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.295	15:19
BLANK TEST	0.000	15:20

Average = 0.2952  
Std Dev = 0.0004



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100421

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/17/2023

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.88: 0.080  
LOT #: AG310901  
EXPIRATION: 04/19/2025  
TANK PRESSURE: 1125 psi

BLANK TEST	0.000	15:31
INTERNAL STANDARD	VERIFIED	15:31
Xq = 0.097 (0.82%)		
EXTERNAL STANDARD	0.080	15:32
X[1] = 0.0801 (0.0030) (0.0019)		
BLANK TEST	0.000	15:33
EXTERNAL STANDARD	0.079	15:33
X[1] = 0.0788 (0.0029) (0.0022)		
BLANK TEST	0.000	15:34
EXTERNAL STANDARD	0.079	15:34
X[1] = 0.0790 (0.0036) (0.0025)		
BLANK TEST	0.000	15:35
EXTERNAL STANDARD	0.079	15:35
X[1] = 0.0790 (0.0031) (0.0018)		
BLANK TEST	0.000	15:36
EXTERNAL STANDARD	0.079	15:36
X[1] = 0.0788 (0.0031) (0.0017)		
BLANK TEST	0.000	15:37

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 = 45.0°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.71 V	PASSED
(1.03 V - 2.39 V)	
Cooler Voltage = 1.80 V	PASSED
(1.08 V - 2.52 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 526 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

### PUMP INFO

Flow Rate = 4.776 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 = 0.097	0.45%	(0.00% - 4.00%)	PASSED
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SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100421

Date: 08/17/2023  
Time: 15:39:42

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 29.88: 0.080  
LOT #: AG310901  
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	15:40
BLANK TEST	0.000	15:40
INTERNAL STANDARD	VERIFIED	15:40
EXTERNAL STANDARD	0.080	15:41
BLANK TEST	0.000	15:42
SUBJECT SAMPLE (Vol=1.53L)	0.000	15:42
BLANK TEST	0.000	15:43
EXTERNAL STANDARD	0.080	15:43
BLANK TEST	0.000	15:44

