

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100700  
Start Date: 6/20/23  
Date Received: 6/20/23

Analyst(s): C. O'Bryant

Reason for instrument evaluation

Frozen touch screen.

Visual Inspection

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Clean   | <input checked="" type="checkbox"/> Replace missing screws            |
| <input checked="" type="checkbox"/> Cermetex Box (modem) is secure                            | <input checked="" type="checkbox"/> Ensure modem cable present        |
| <input checked="" type="checkbox"/> Double Check Valve secured to wall                        | <input checked="" type="checkbox"/> All tubing and connections secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 replacement O-rings in bag |   |

As Found Conditions:

Barometric Pressure (inHg): 29.80  
29.003 Temperature (C): 22.2 Relative Humidity (%) 51

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>ILMO</u>	Lot: <u>09523080A1</u>	Exp: <u>5/5/25</u>
0.300g/210L Mnf: <u>Argas</u>	Lot: <u>AG217903</u>	Exp: <u>6/28/24</u>

Notes

Recommend replacing touch screen

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> VOC (attached)                           | <input checked="" type="checkbox"/> Verify software version              |
| <input checked="" type="checkbox"/> VOC Internal Standard value $\leq$ 3.00% | <input checked="" type="checkbox"/> Non-Drinking Subject Test (attached) |

Condition of item:  Good  Needs Repair

Ready for Adjustment

Ready for Calibration

End Date: 6/20/23

Page 1 of 1

All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

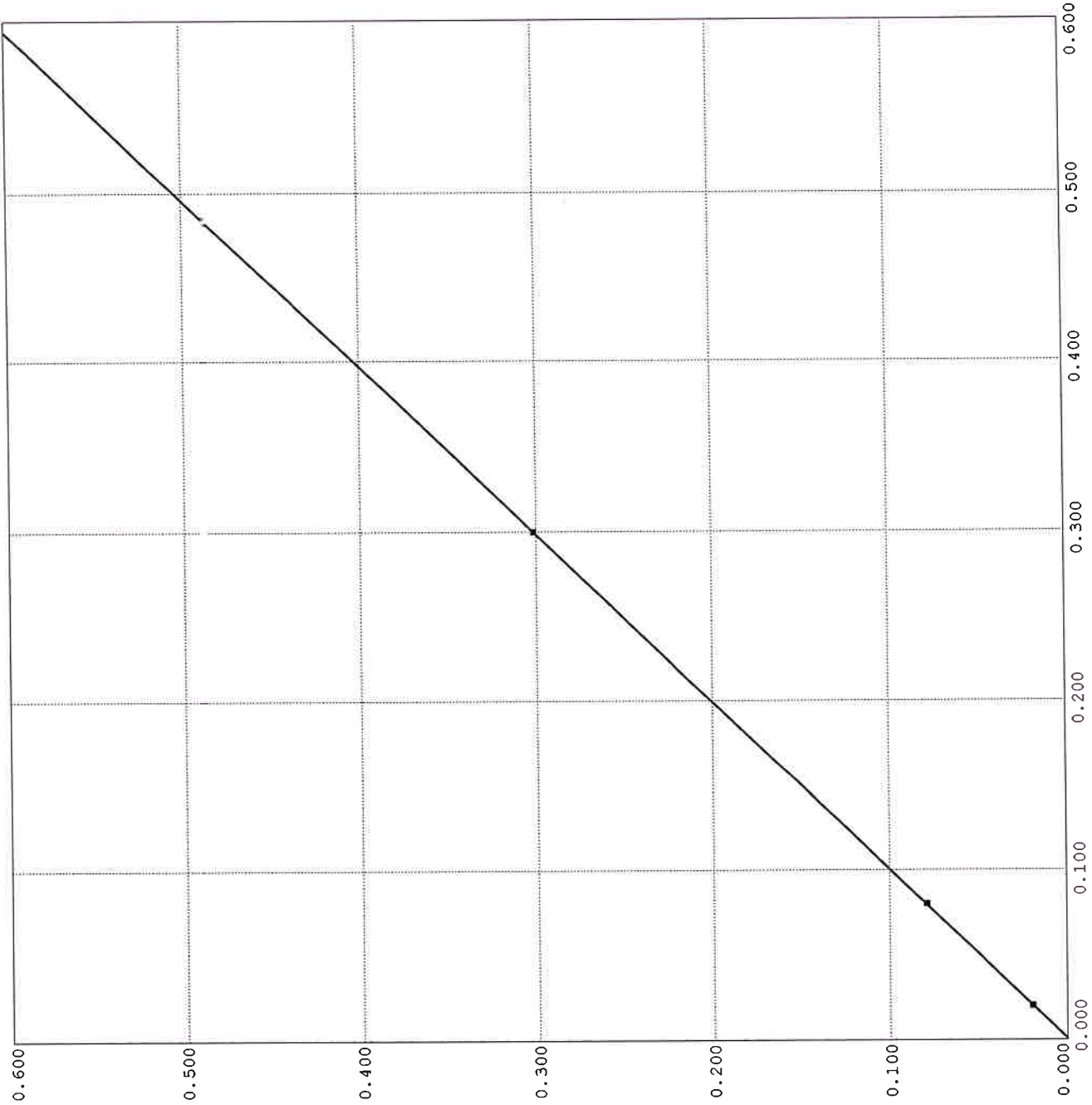
-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100700  
 -----

Date: 06/20/2023  
 Time: 11:44:57

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0202	0.0004
0.080	0.0800	0.0000
0.299	0.3022	0.0004

SLOPE = 1.011791  
 $R^2$  = 0.999990



*COB*

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100700

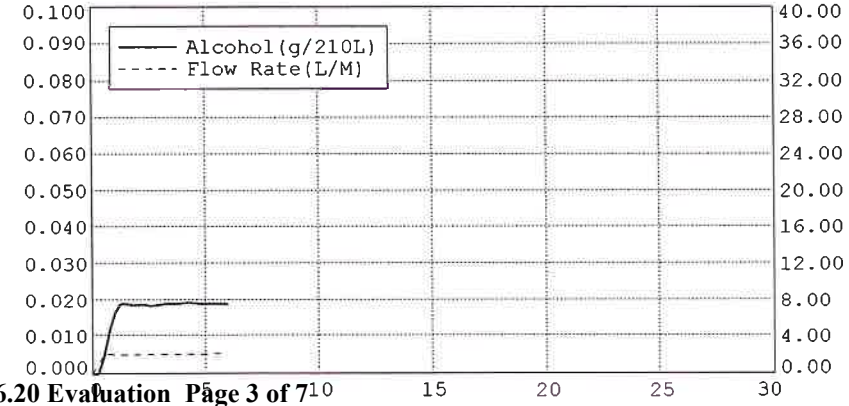
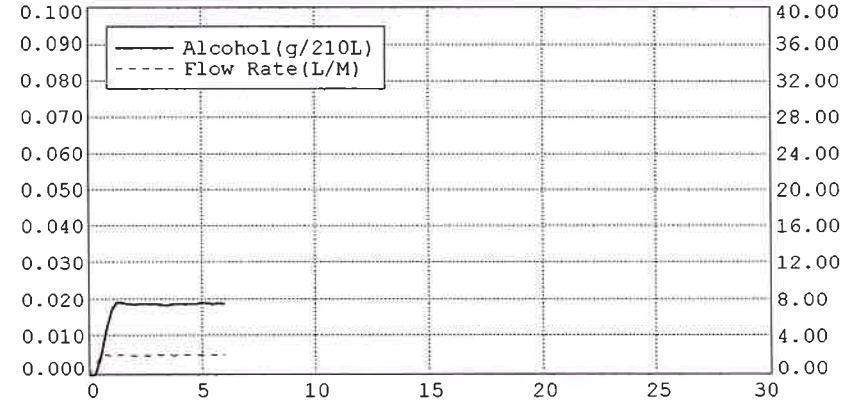
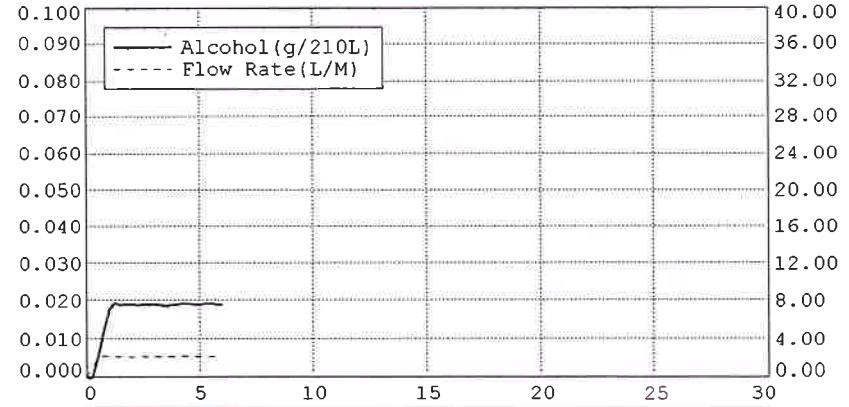
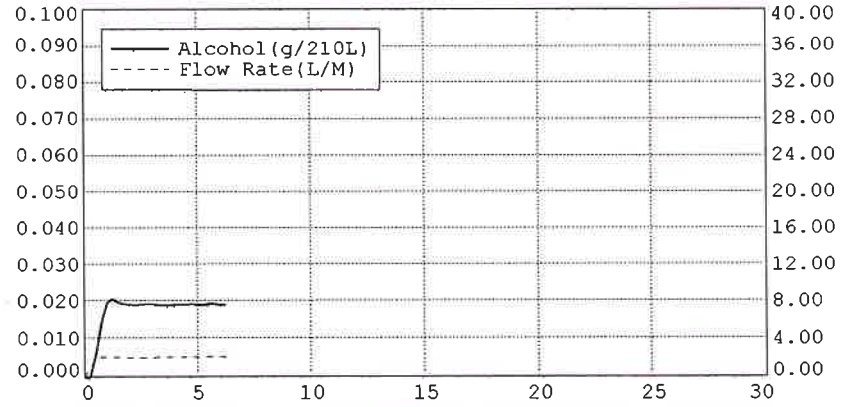
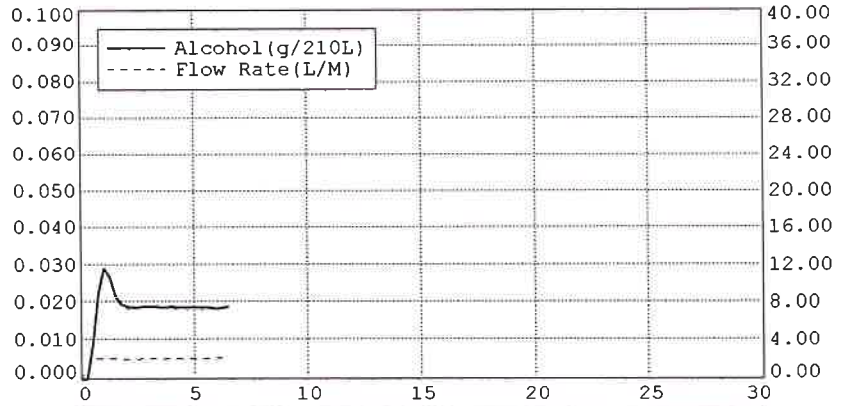
Date: 06/20/2023  
 Time: 11:44:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.79: 0.020  
 LOT #: AG217902  
 EXPIRATION: 06/28/2024  
 TANK PRESSURE: 597 psi

BLANK TEST	0.000	11:46
INTERNAL STANDARD	VERIFIED	11:46
EXTERNAL STANDARD	0.020	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.021	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.020	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.020	11:49
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.020	11:50
BLANK TEST	0.000	11:51

Average = 0.0202  
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100700

Date: 06/20/2023  
Time: 11:52:09

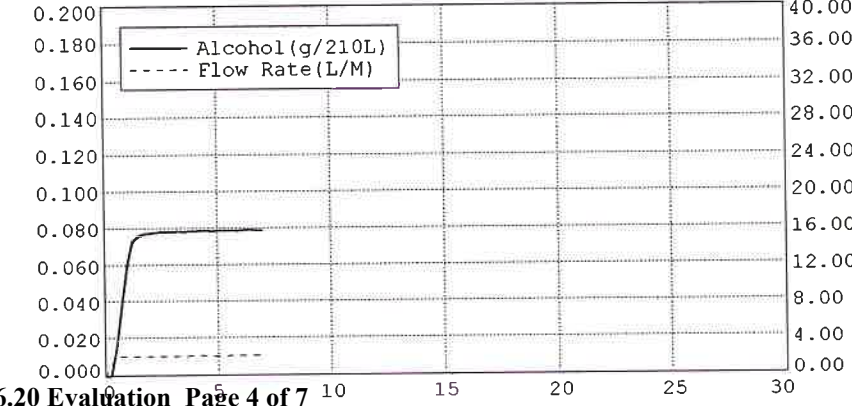
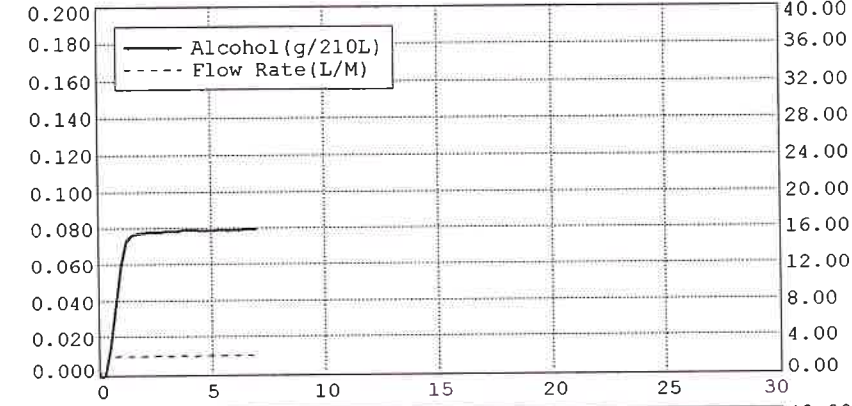
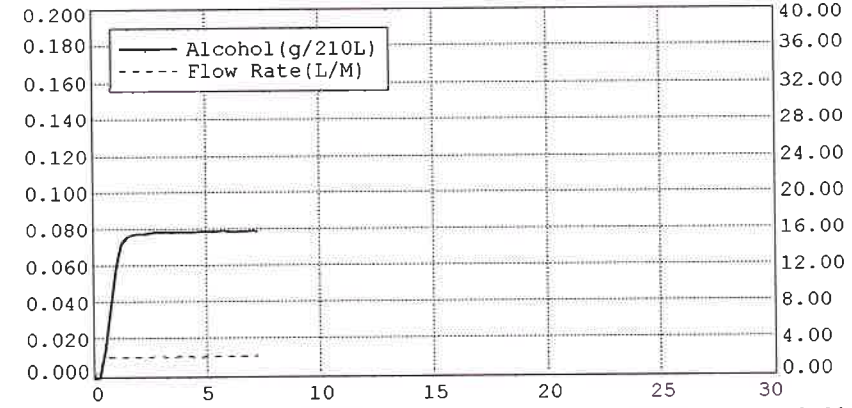
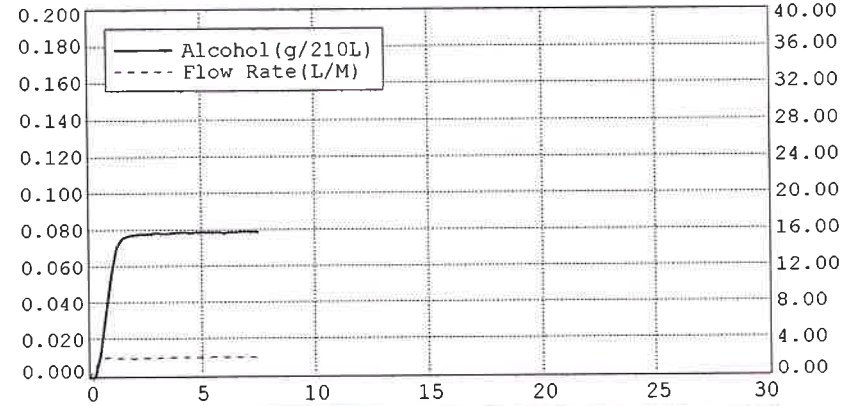
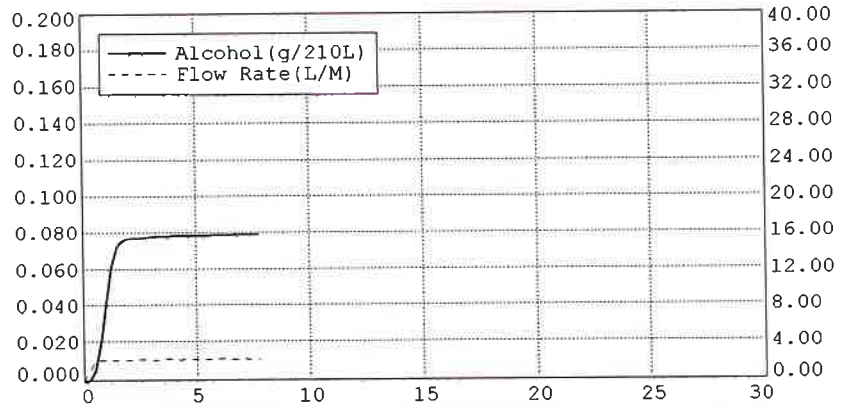
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.79: 0.080  
LOT #: ~~092523080A1~~  
EXPIRATION: 05/05/2025  
TANK PRESSURE: 863 psi

**09523080A1**  
**COB 2023.06.29**

BLANK TEST	0.000	11:53
INTERNAL STANDARD	VERIFIED	11:53
EXTERNAL STANDARD	0.080	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.080	11:54
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.080	11:55
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.080	11:57
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.080	11:58
BLANK TEST	0.000	11:59

Average = 0.0800  
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100700

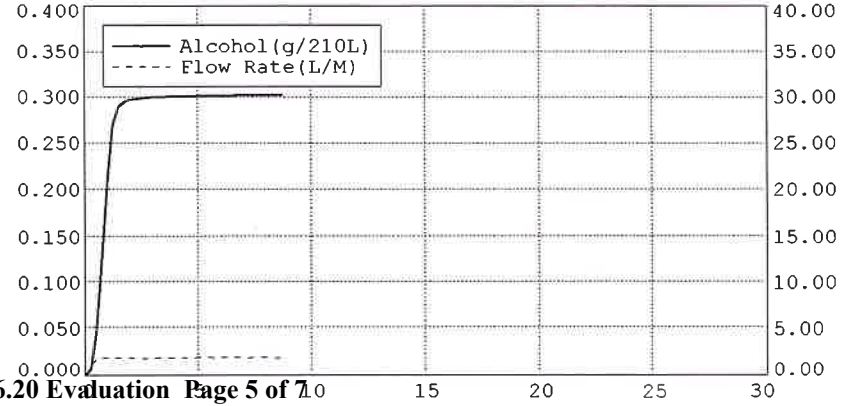
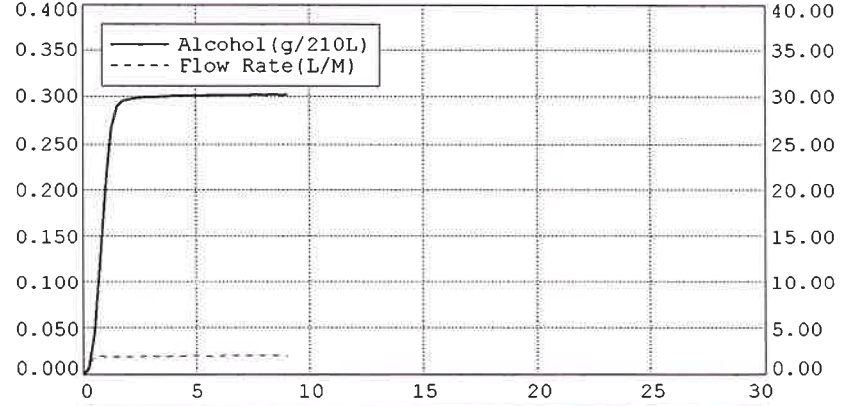
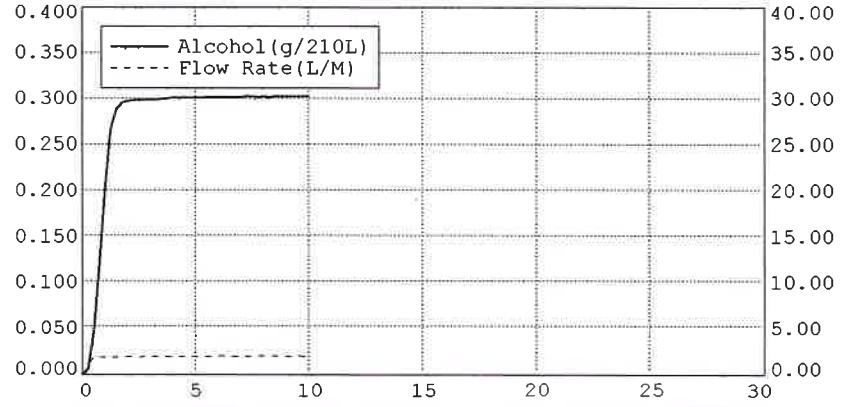
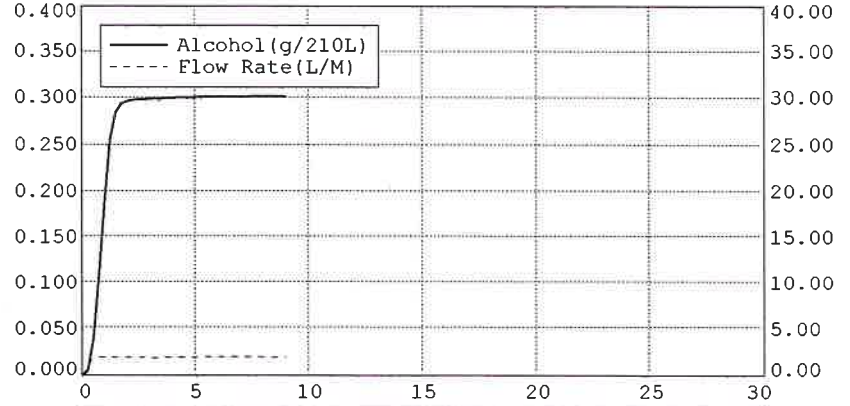
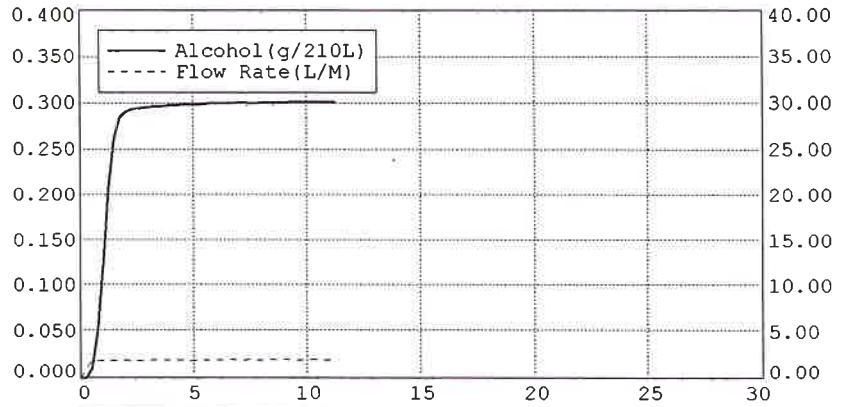
Date: 06/20/2023  
Time: 11:59:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 29.79 0.299  
LOT #: AG217903  
EXPIRATION: 06/28/2024  
TANK PRESSURE: 324 psi

BLANK TEST	0.000	12:01
INTERNAL STANDARD	VERIFIED	12:01
EXTERNAL STANDARD	0.302	12:01
BLANK TEST	0.000	12:02
EXTERNAL STANDARD	0.302	12:02
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.302	12:03
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.302	12:04
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.303	12:06
BLANK TEST	0.000	12:07

Average = 0.3022  
Std Dev = 0.0004



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100700

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/20/2023

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.79: 0.080  
LOT #: 09523080A1  
EXPIRATION: 05/05/2025  
TANK PRESSURE: 832 psi

BLANK TEST	0.000	12:11
INTERNAL STANDARD	VERIFIED	12:11
Xq = 0.080	(0.54%)	
EXTERNAL STANDARD	0.081	12:12
X[1] = 0.0813	(0.0008) (0.0024)	
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.081	12:13
X[1] = 0.0806	(0.0009) (0.0019)	
BLANK TEST	0.000	12:14
EXTERNAL STANDARD	0.081	12:14
X[1] = 0.0809	(0.0018) (0.0024)	
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.080	12:15
X[1] = 0.0798	(0.0000) (0.0016)	
BLANK TEST	0.000	12:16
EXTERNAL STANDARD	0.080	12:16
X[1] = 0.0802	(0.0005) (0.0022)	
BLANK TEST	0.000	12:17

Average = 0.0806  
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 = 47.2°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.70 V PASSED  
(1.02 V - 2.38 V)  
Cooler Voltage = 1.68 V PASSED  
(0.98 V - 2.28 V)  
Bias Voltage = 80 V PASSED  
(49 V - 115 V)  
Chopper Freq = 531 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.8 in

### PUMP INFO

Flow Rate = 4.699 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 PASSED

Xq = 0.081 (0.32%) (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100700

Date: 06/20/2023  
Time: 15:38:58

SUBJECT NAME:  
TEST TEST  
LICENSE #: NONDRINKING

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

DEPT/AGENCY:  
AAA1  
CASE/REPORT: 23-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.78: 0.080  
LOT #: 09523080A1  
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK PASSED 15:39  
BLANK TEST 0.000 15:40  
INTERNAL STANDARD VERIFIED 15:40  
EXTERNAL STANDARD 0.081 15:40  
BLANK TEST 0.000 15:41  
SUBJECT SAMPLE (Vol=1.65L) 0.000 15:41  
BLANK TEST 0.000 15:42  
EXTERNAL STANDARD 0.081 15:42  
BLANK TEST 0.000 15:43

