

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100389

Analyst(s): Dercu Watten

Start Date: 11/09/22

Date Received: 11/09/22

Reason for instrument evaluation

Preventative maintenance due

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): 29.34 Temperature (C): 21.7 Relative Humidity (%) 20

Linearity Test (attached)

0.020g/210L Mnf:	Airgas	Lot: A6100401	Exp: 01/04/23
0.080g/210L Mnf:	Airgas	Lot: A6135014	Exp: 12/16/23
0.300g/210L Mnf:	Airgas	Lot: A6130502	Exp: 11/01/23

Notes

Replaced o-ring, added bag with o-rings, routed filter wires separately

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

Condition of item: Good Needs Repair

- Ready for Adjustment
 Ready for Calibration

End Date: 11/09/22

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100389

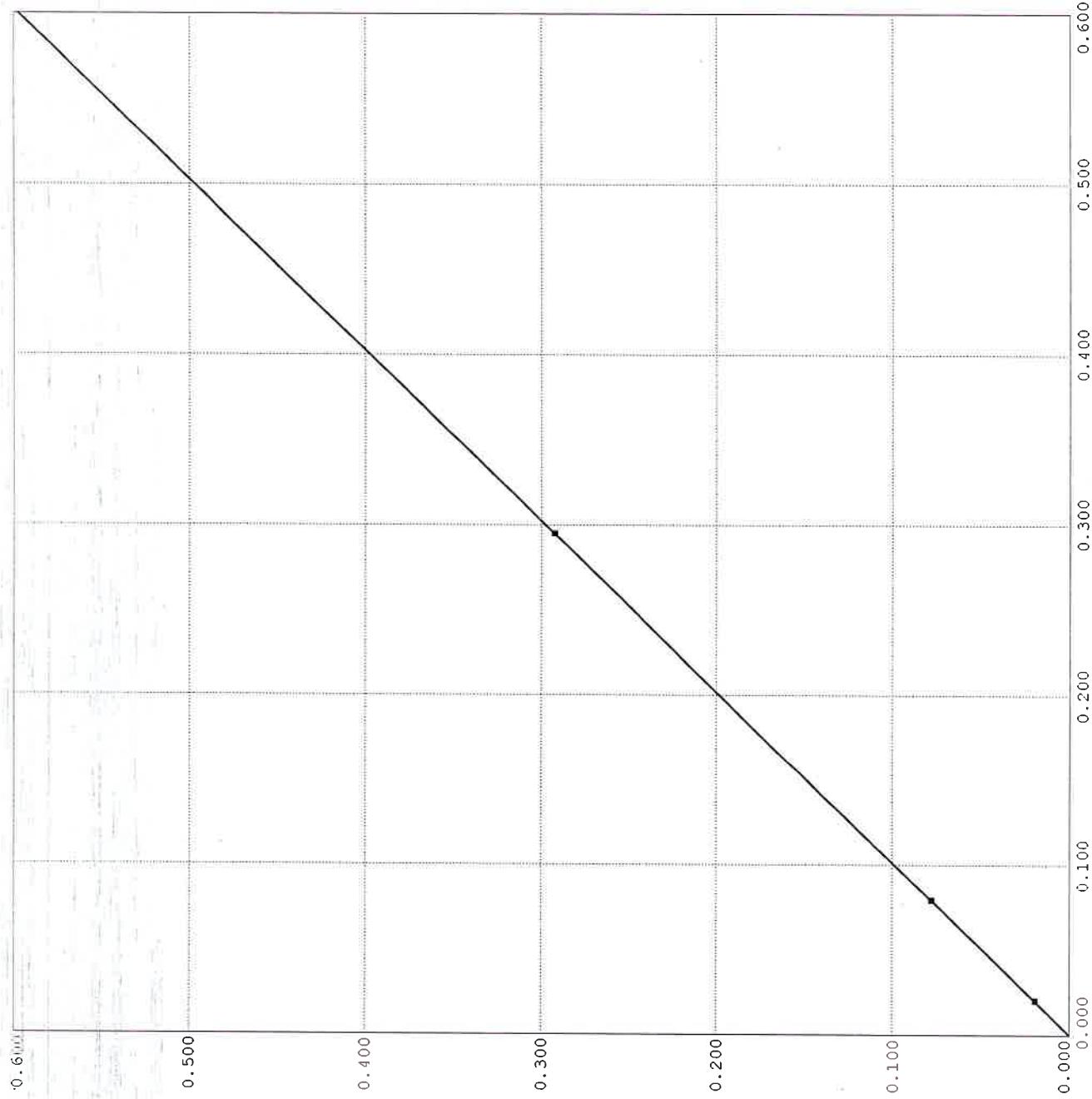
Date: 11/09/2022
Time: 14:28:08

SUPERVISOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

TARGET AVERAGE STD. DEV.

0.020	0.0200	0.0000
0.079	0.0788	0.0004
0.294	0.2930	0.0000

SLOPE = 0.996331
 R^2 = 1.000000



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LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100389

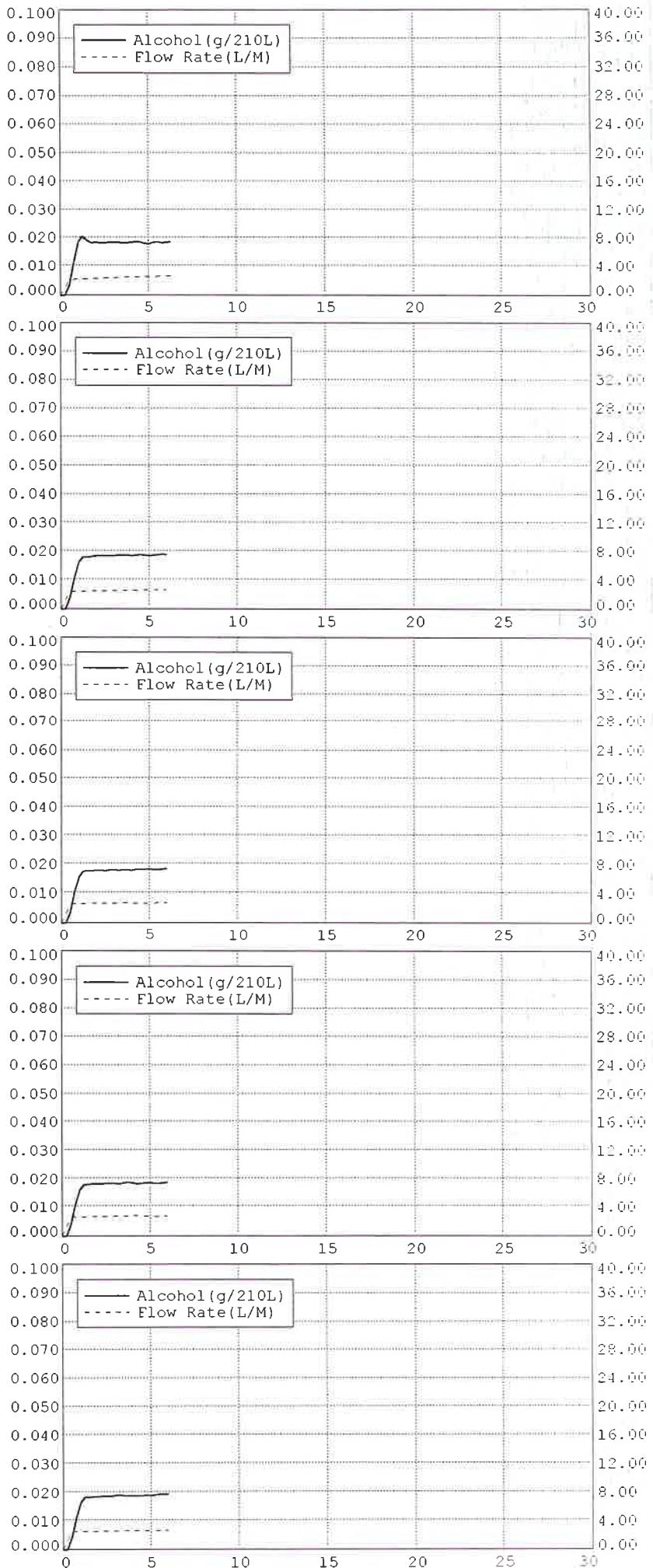
Date: 11/09/2022
Time: 14:28:10

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.36: 0.020
LOT #: AG100401
EXPIRATION: 01/04/2023
TANK PRESSURE: 274 psi

BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.020	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.020	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.020	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.020	14:33
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.020	14:34
BLANK TEST	0.000	14:35

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100389

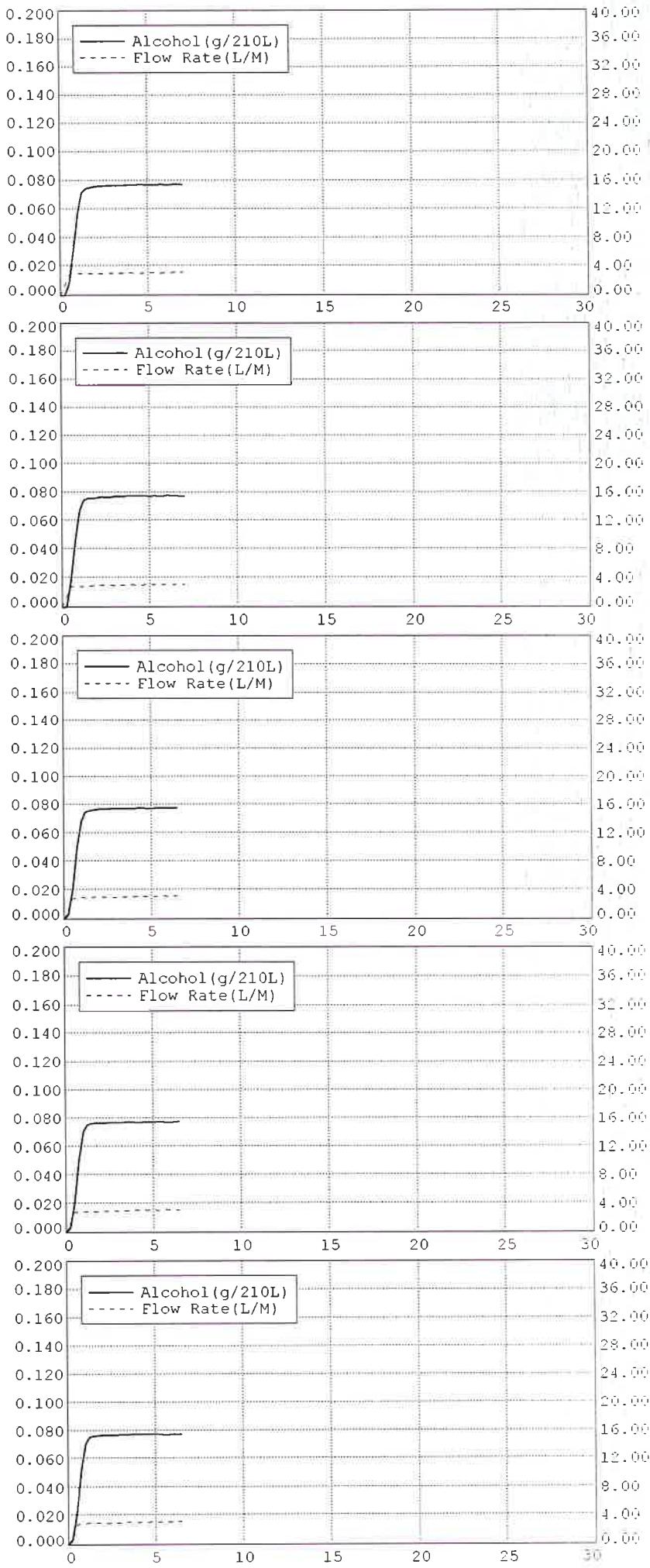
Date: 11/09/2022
Time: 14:36:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.36: 0.079
LOT #: AG135004
EXPIRATION: 12/16/2023
TANK PRESSURE: 1146 psi

BLANK TEST	0.000	14:38
INTERNAL STANDARD	VERIFIED	14:38
EXTERNAL STANDARD	0.078	14:38
BLANK TEST	0.000	14:39
EXTERNAL STANDARD	0.079	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.079	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.079	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.079	14:42
BLANK TEST	0.000	14:43

Average = 0.0788
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100389

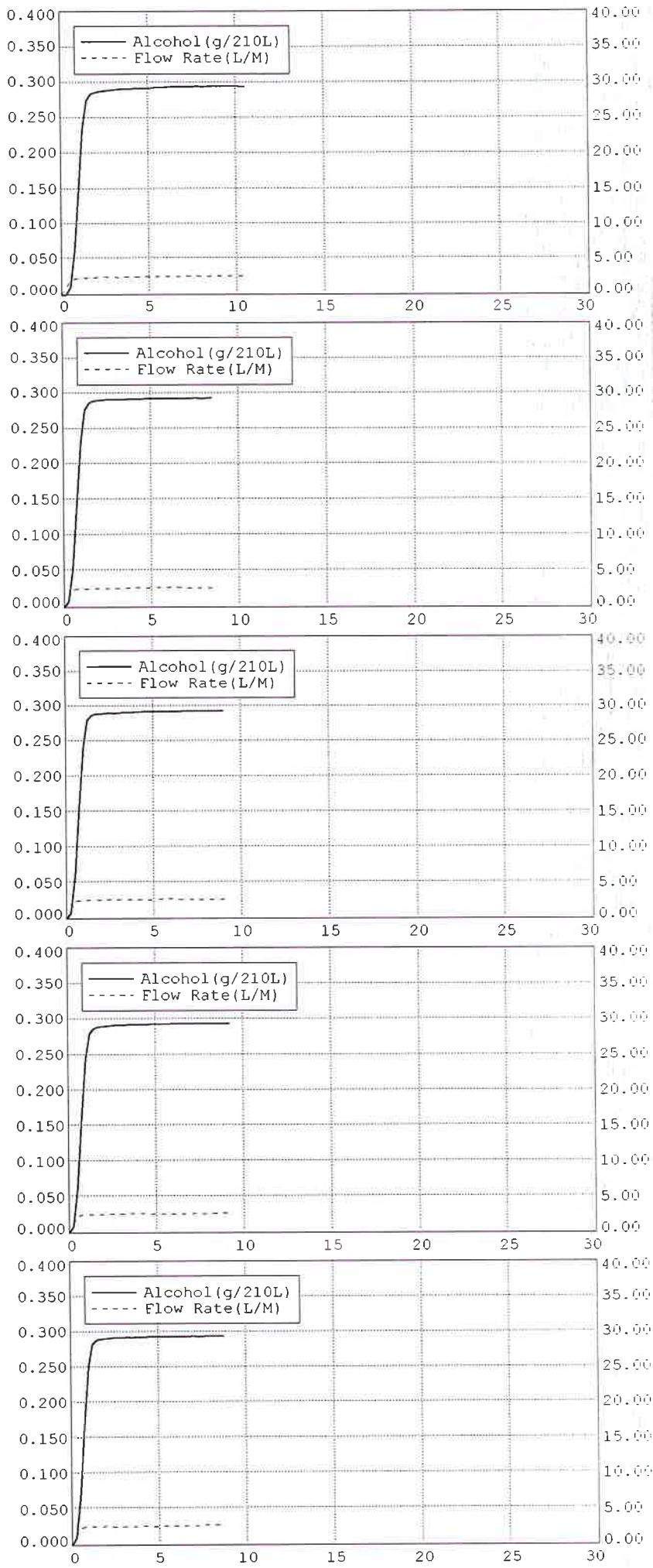
Date: 11/09/2022
Time: 14:47:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.36: 0.294
LOT #: AG130502
EXPIRATION: 11/01/2023
TANK PRESSURE: 216 psi

BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:49
EXTERNAL STANDARD	0.293	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.293	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.293	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.293	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.293	14:54
BLANK TEST	0.000	14:54

Average = 0.2930
Std Dev = 0.0000



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100389

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/09/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.38: 0.079
LOT #: AG135004
EXPIRATION: 12/16/2023
TANK PRESSURE: 1116 psi

BLANK TEST	0.000	15:01
INTERNAL STANDARD	VERIFIED ✓	15:01
Xq = 0.100 (0.78%)		
EXTERNAL STANDARD	0.079	15:01
X[1] = 0.0794 (-0.0015) (0.0007)		
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.079	15:02
X[1] = 0.0793 (-0.0006) (0.0005)		
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.079	15:03
X[1] = 0.0792 (-0.0015) (0.0004)		
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.080	15:04
X[1] = 0.0796 (-0.0002) (0.0012)		
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.079	15:05
X[1] = 0.0789 (-0.0013) (0.0007)		
BLANK TEST	0.000	15:06

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 = 48.7 °C (44.0 °C - 52.0 °C)	PASSED
Breath Tube = 45.3 °C (38.0 °C - 50.0 °C)	PASSED

SETTINGS

Lamp Voltage = 1.68 V (1.04 V - 2.44 V)	PASSED
Cooler Voltage = 1.76 V (0.99 V - 2.31 V)	PASSED
Bias Voltage = 80 V (48 V - 112 V)	PASSED
Chopper Freq = 541 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.4 in	

PUMP INFO

Flow Rate = 4.682 L/M (3.500 L/M - 6.500 L/M)	PASSED
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DETECTOR INFO

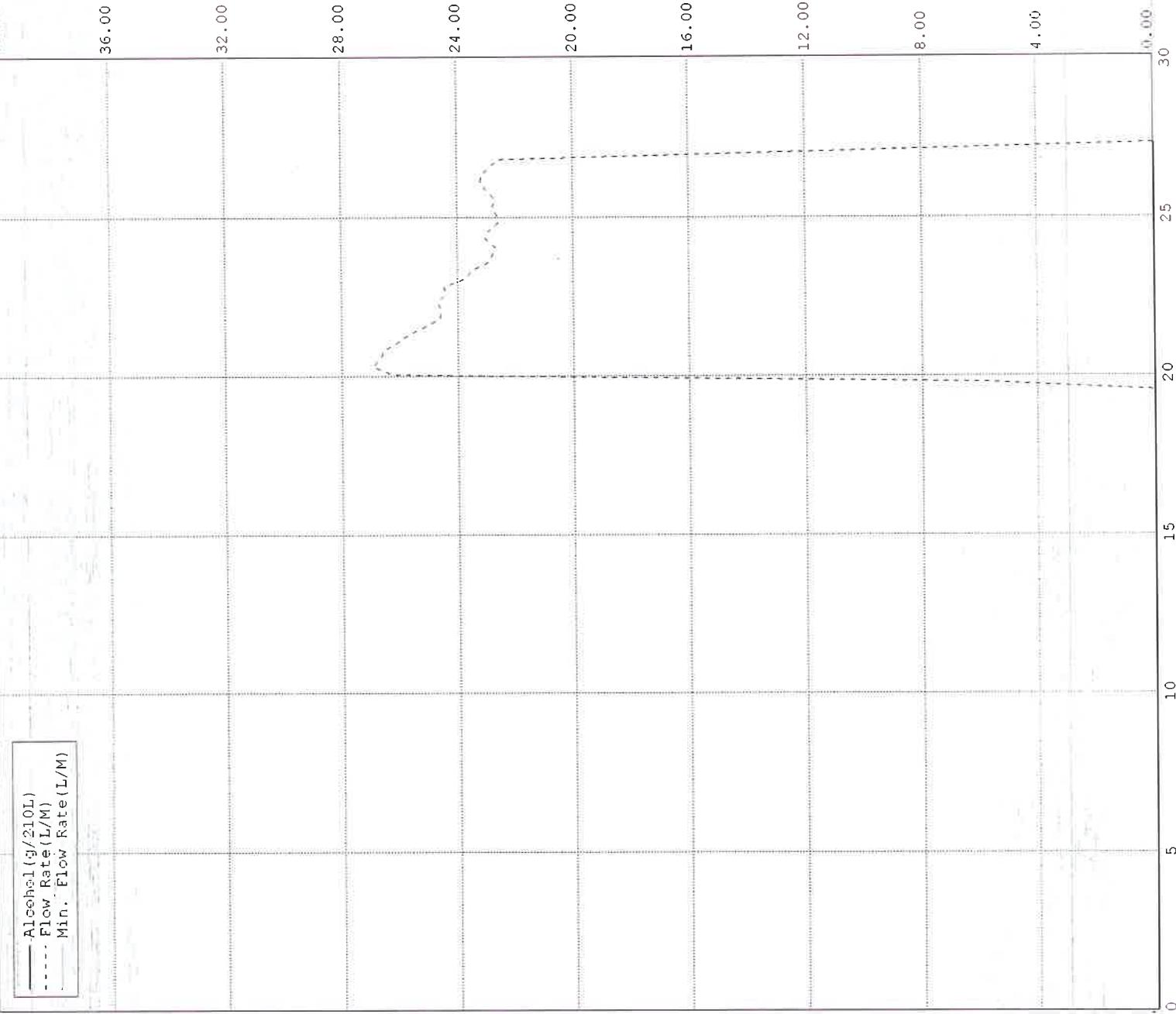
PUMP ON (0.002 V <= 0.010 V)	PASSED
PUMP OFF (0.002 V <= 0.010 V)	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD ✓ Xq = 0.100 0.70% (0.00% - 4.00%)	PASSED
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SUBJECT TEST	
Alaska Department of Public Safety DATAMASTER dmt: 100389	
Date: 11/09/2022	
Time: 15:11:06	
SUBJECT NAME: TEST TEST	LICENSE #: XXXX
OPERATOR NAME: DEREK WALTON	OPERATOR'S #: 9508
DEPT/AGENCY: NON-DRINKING SUBJECT	CASE/REPORT: XXXX
TEST TYPE: TEST	
EXTERNAL STANDARD INFORMATION	
NOMINAL: 0.080	PASSED 15:13
TARGET AT 29.37: 0.079	0.000 15:13
LOT #: AG135004	VERIFIED 15:13
EXPIRATION: 12/16/2023	0.079 15:14
DIAGNOSTIC CHECK	0.000 15:14
BLANK TEST	0.000 15:15
INTERNAL STANDARD	0.000 15:16
EXTERNAL STANDARD	0.080 15:16
BLANK TEST	0.000 15:17
SUBJECT SAMPLE (Vol=2.88L)	0.000 15:17
BLANK TEST	0.000 15:17
EXTERNAL STANDARD	0.000 15:17
BLANK TEST	0.000 15:17



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