

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMCEF 2015 R1
Status: Active

Instrument S/N 100354 Analyst Deech Watton Start Date 01/08/20

1. Diagnostic Test (attached) Internal Standard value \leq 3.00% Yes

1. Voltage Checks

a. Adjust voltages, if needed

i. Lamp (2.6V Maximum)

ii. Bias

iii. Cooler (2.0V Maximum)

iv. Chopper Frequency

v. Detector Voltage (-0.100V to 0.100V)

b. Set RFI

c. Adjust barometer reading to match NIST traceable barometer

d. Adjust volume setting, if needed (1.5L +/- 0.1L)

e. Print Technician Screen (attached)

2. Print Calibration Factors (attached)

3. Volume Test - Minimum 1.4 L (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf Airgas Lot AG805804 Exp 02/27/20

ii. 0.040g/210L Mnf Airgas Lot AG918607 Exp 06/05/21

iii. 0.080g/210L Mnf Airgas Lot AG826101 Exp 09/18/20

iv. 0.100g/210L Mnf Airgas Lot AG805903 Exp 02/28/20

v. 0.200g/210L Mnf Cutn Lot 19040 Exp 01/29/21

1. Simulator S/N DR4162 Date Calibrated 10/07/19

vi. 0.300g/210L Mnf Cutn Lot 19010 Exp 01/03/21

1. Simulator S/N DR4178 Date Calibrated 10/04/19

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Cutn Lot 18370 Level 0.100 Exp 12/05/20

1. Simulator S/N SD1199 Date Calibrated 03/06/19

ii. Isopropanol - Mnf Cutn Lot 18370 Level 0.100 Exp 12/05/20

1. Simulator S/N DR4161 Date Calibrated 03/07/19

iii. Negative Control - Mnf Cutn Lot 18370 Level 0.100 Exp 12/05/20

1. Simulator S/N SD1202 Date Calibrated 03/05/19

e. RFI

6. Verify stylus is calibrated

9. Verification of Calibration

7. Reset Options

10. Non-Drinking Subject Test (attached)

8. Clear Memory

11. Upload

13. Remove tank prior to shut down

End Date 01/09/20

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100354

Date: 01/08/2020
Time: 09:43:03

VERSIONS
DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.59 V PASSED
(0.95 V - 2.23 V)
Cooler Voltage = 1.56 V PASSED
(0.95 V - 2.21 V)
Bias Voltage = 78 V PASSED
(47 V - 111 V)
Chopper Freq = 544 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.726 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 = 0.095 0.37% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100354

Date: 01/08/2020
Time: 9:54 AM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 47.5°C

Current Barometer 29.8 in
Volume (Ltr) 1.58

Settings

Lamp: 1.67 V
Bias: 78 V
Cooler: 1.56 V
Chopper: 540 Hz

Voltages (V)

Flow: 1.05 V
Detector: -0.025 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100354

Date: 09/27/2011
Time: 13:04:23

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 11050
EXPIRATION: 04/06/2013

Ca = 0.1000
CAL = 0.969216 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0049 0.0010 <= b2 < 0.0100
b3 = 0.0001 0.0000 <= b3 < 0.0040
Xq = 0.0953 0.0500 <= Xq < 0.2000
a21 = 1.175978 1.050 <= a21 < 1.300
a31 = 0.450287 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100354

Date: 01/08/2020

Time: 09:57:53

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

DEREK WALTON

OPERATOR'S #: XXXX

DEPT/AGENCY:

MINIMUM VOLUME

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

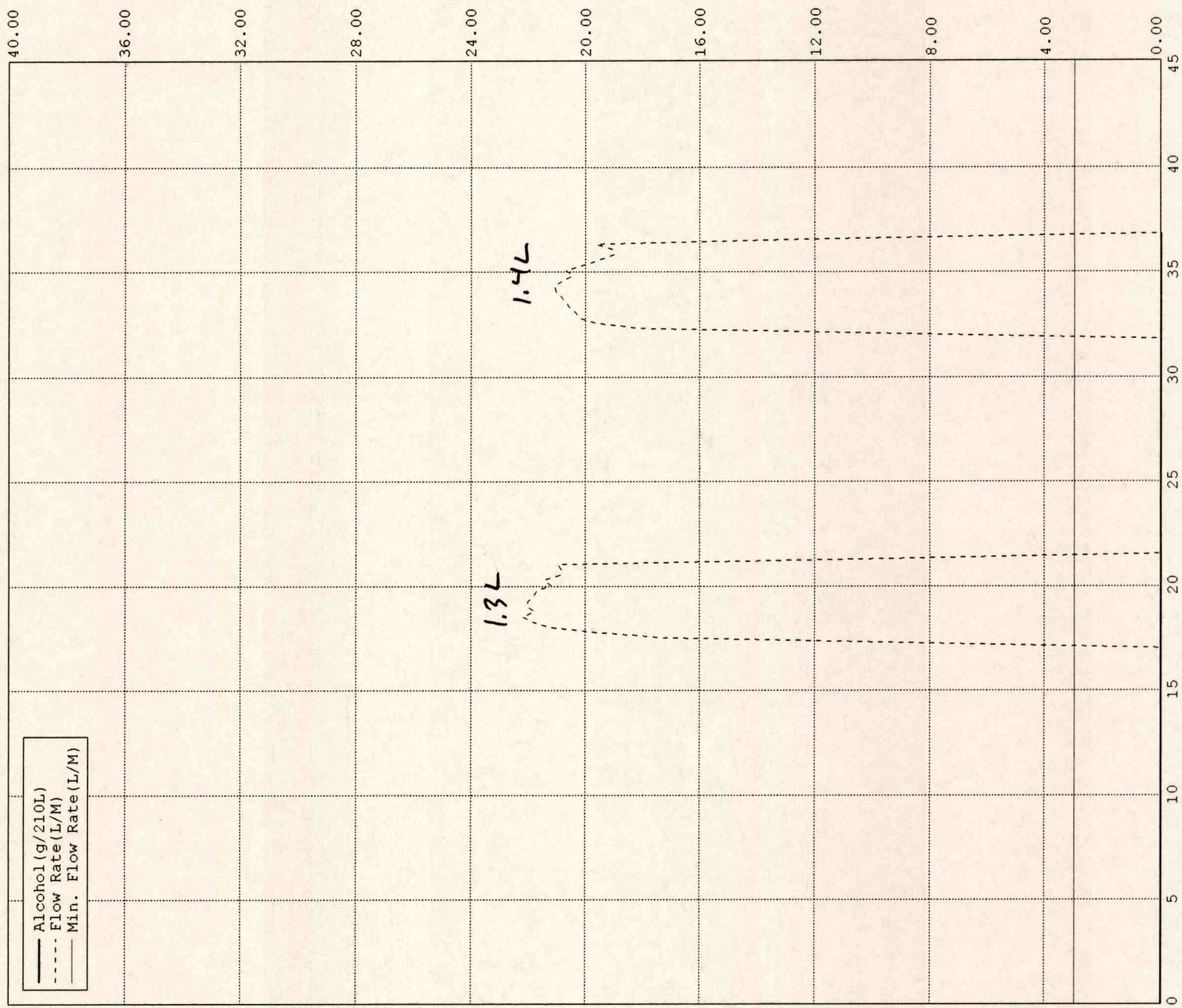
TARGET AT 29.83: 0.080

LOT #: AG826101

EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	09:58
BLANK TEST	0.000	09:59
INTERNAL STANDARD	VERIFIED	09:59
EXTERNAL STANDARD	0.078	09:59
BLANK TEST	0.000	10:00
SUBJECT SAMPLE (Vol=1.51L)	0.000	10:00
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.078	10:02
BLANK TEST	0.000	10:03

DM



LINEARITY CHECK

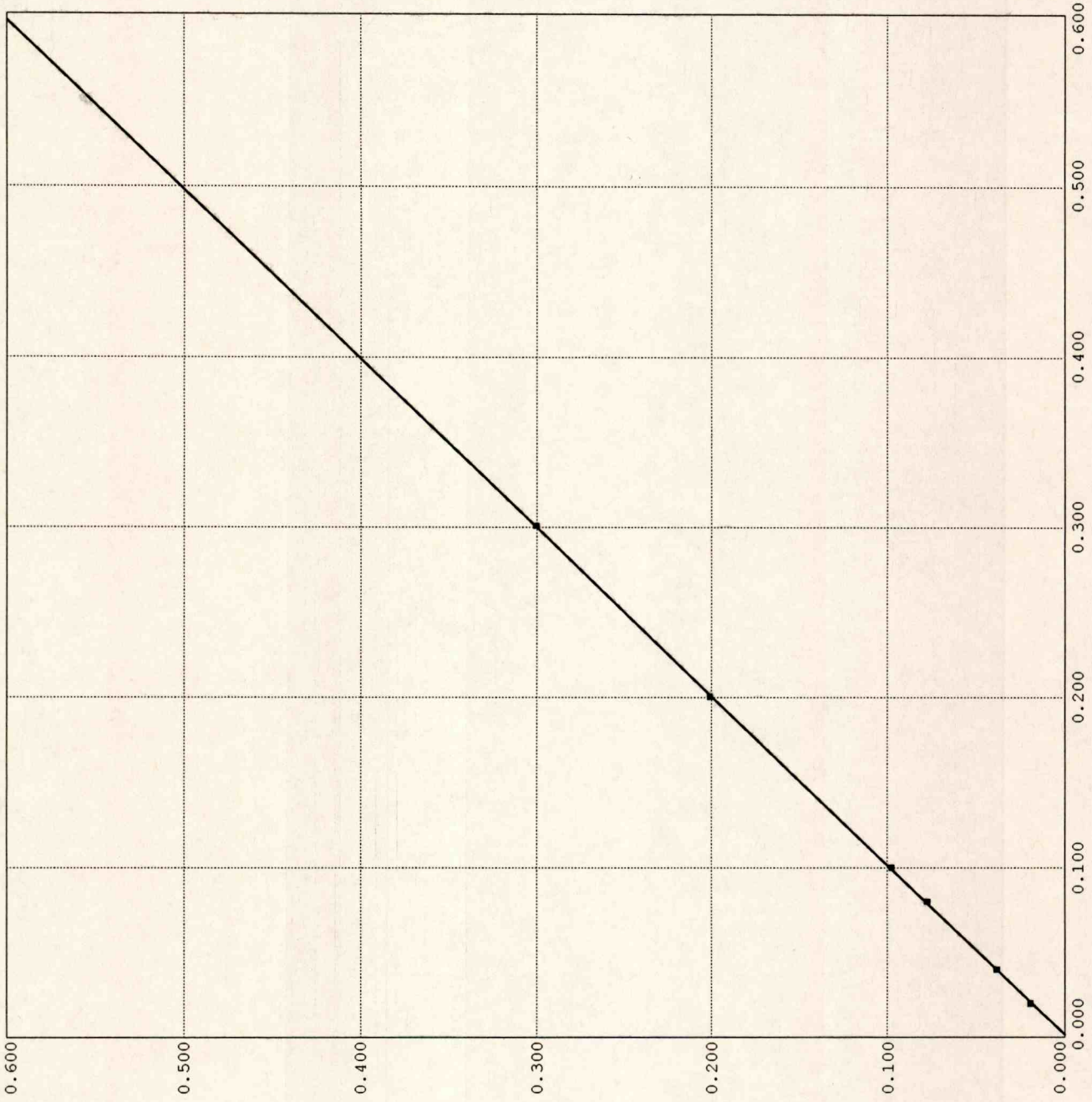
Alaska Department of Public Safety
DATAMASTER dmt: 100354

Date: 01/08/2020
Time: 10:13:12

SUPERVISOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0392	0.0004
0.080	0.0786	0.0005
0.100	0.0986	0.0005
0.200	0.2018	0.0004
0.300	0.3012	0.0004

SLOPE = 1.008926
R² = 0.999920



DW

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100354

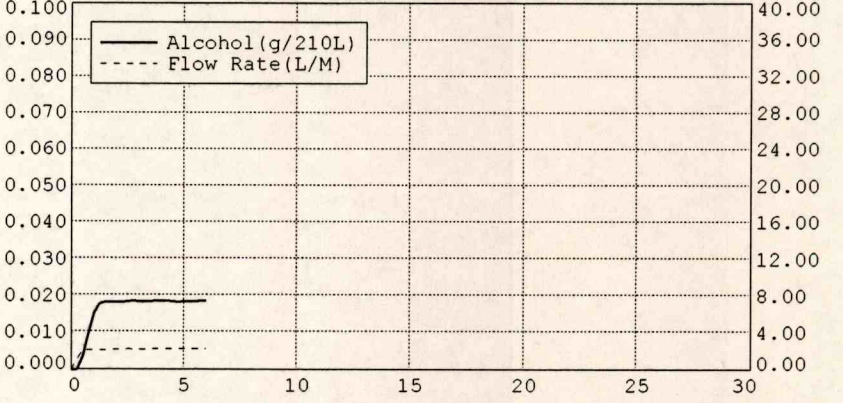
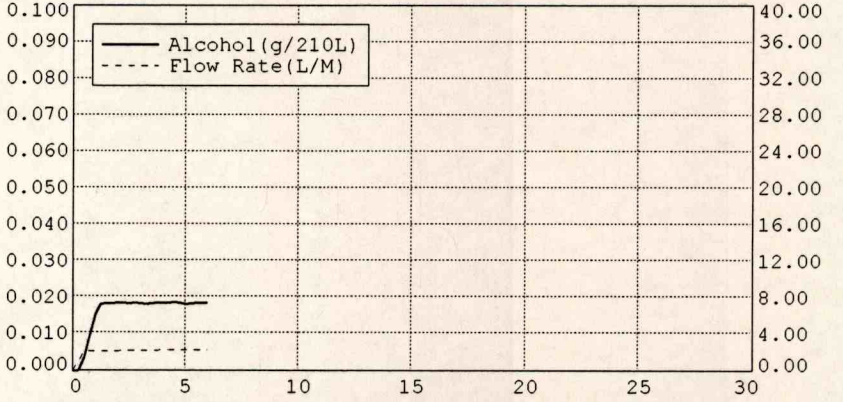
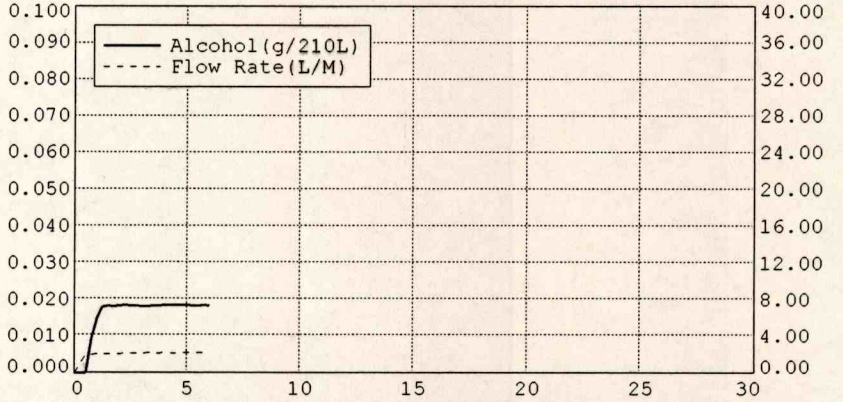
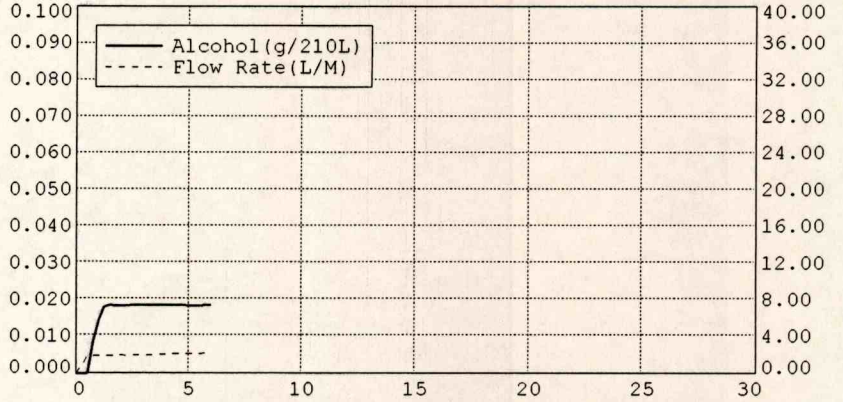
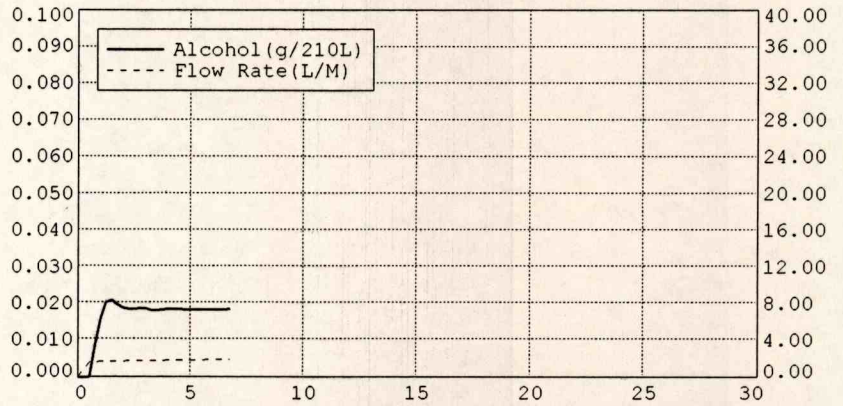
Date: 01/08/2020
 Time: 10:13:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.83: 0.020
 LOT #: AG805804
 EXPIRATION: 02/27/2020
 TANK PRESSURE: 455 psi

BLANK TEST	0.000	10:14
INTERNAL STANDARD	VERIFIED	10:14
EXTERNAL STANDARD	0.020	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.020	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.020	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.020	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.020	10:19
BLANK TEST	0.000	10:20

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100354

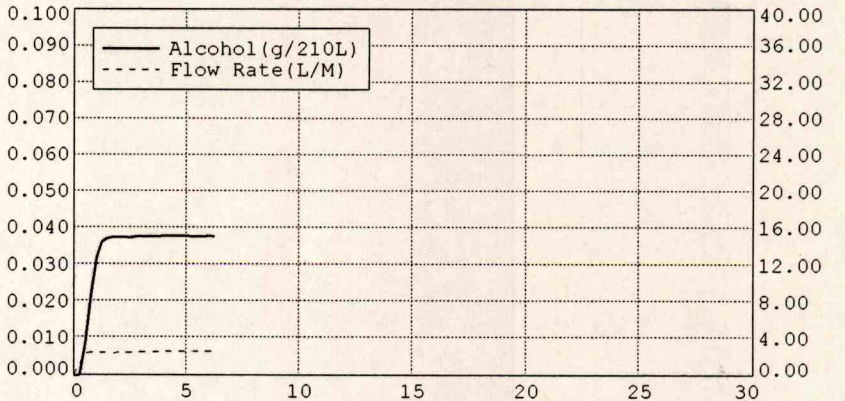
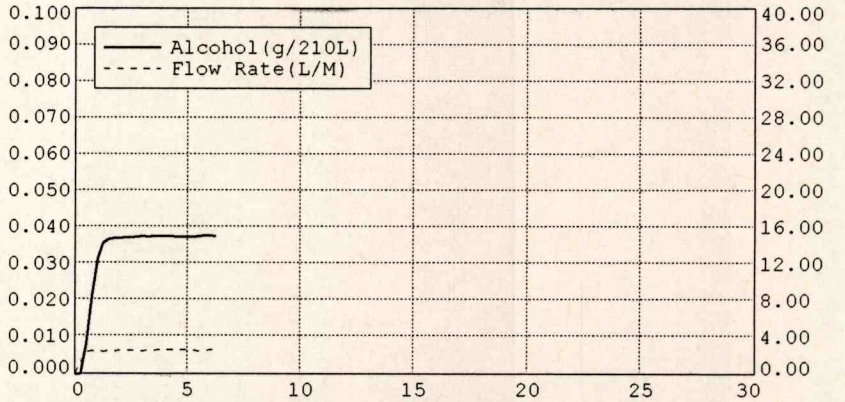
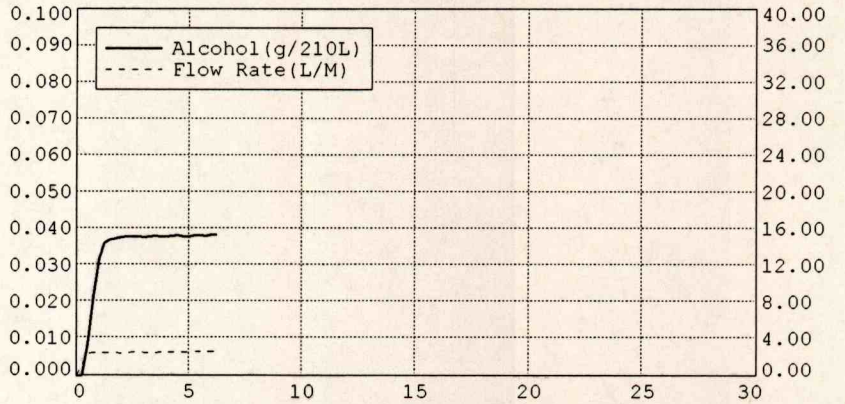
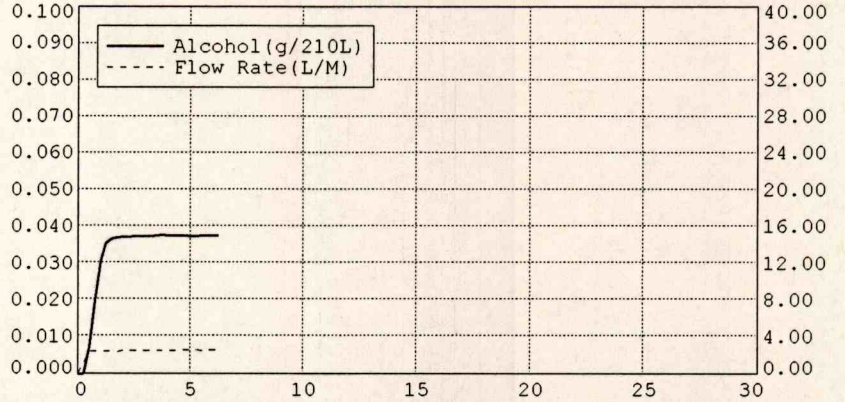
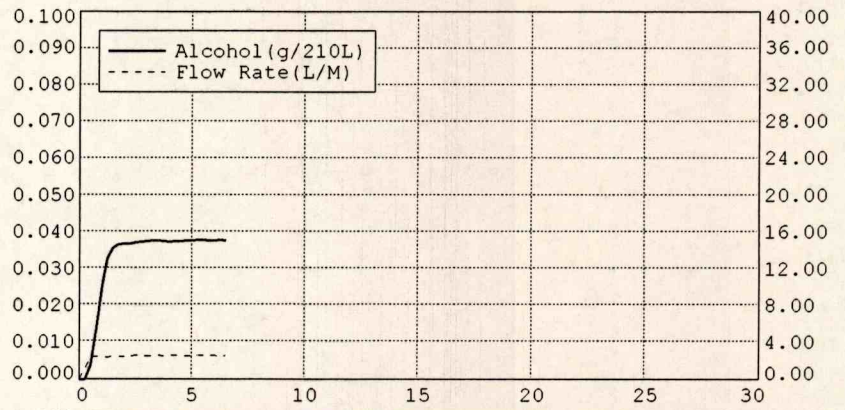
Date: 01/08/2020
 Time: 10:22:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.82: 0.040
 LOT #: AG915607
 EXPIRATION: 06/05/2021
 TANK PRESSURE: 1004 psi

BLANK TEST	0.000	10:23
INTERNAL STANDARD	VERIFIED	10:23
EXTERNAL STANDARD	0.039	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.039	10:25
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.040	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.039	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.039	10:28
BLANK TEST	0.000	10:29

Average = 0.0392
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100354

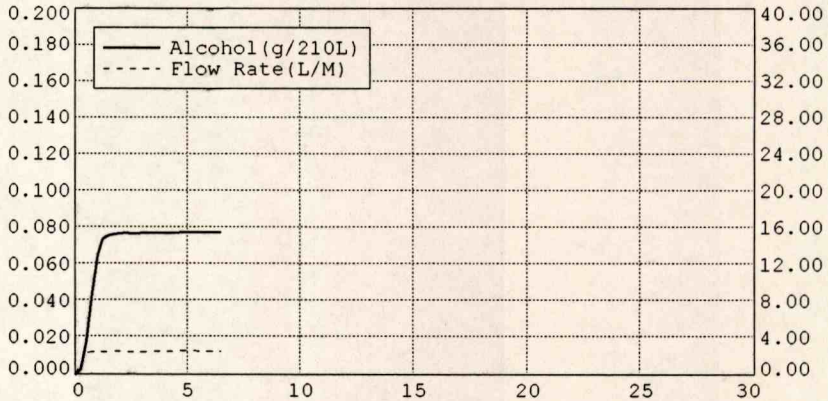
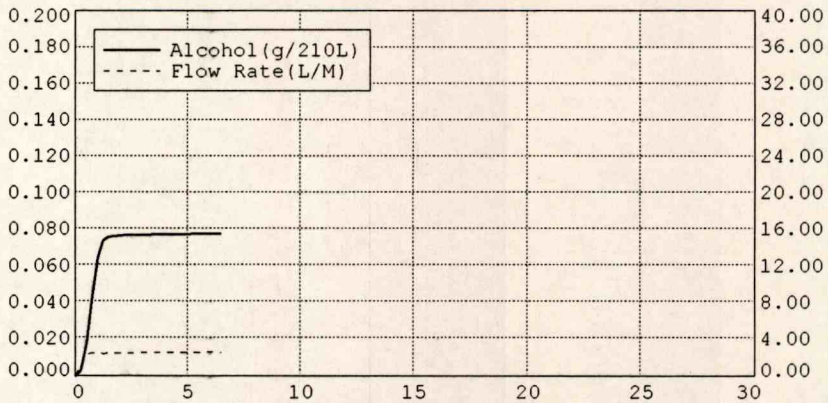
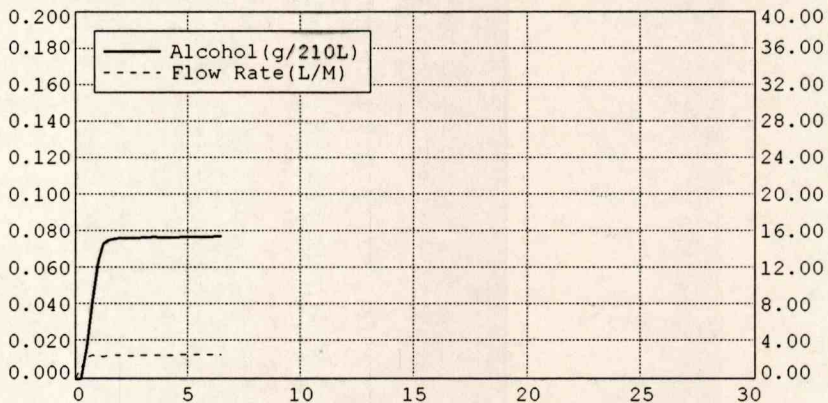
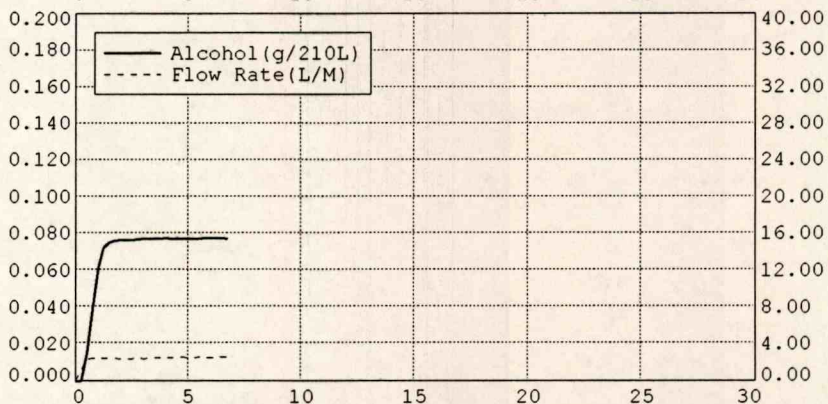
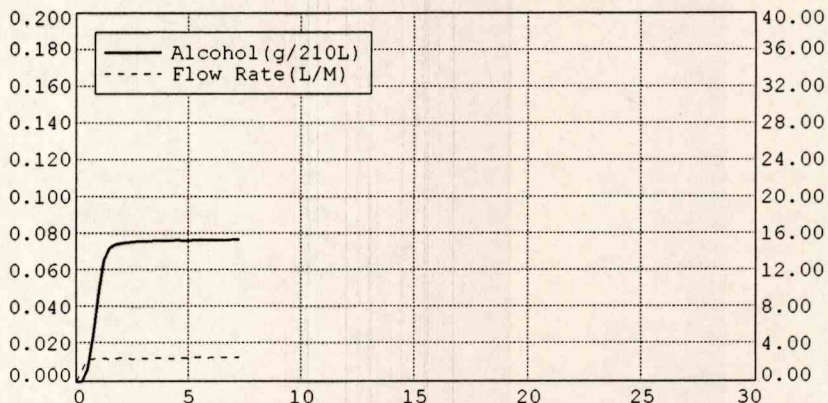
Date: 01/08/2020
 Time: 10:33:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.83: 0.080
 LOT #: AG826101
 EXPIRATION: 09/18/2020
 TANK PRESSURE: 1042 psi

BLANK TEST	0.000	10:34
INTERNAL STANDARD	VERIFIED	10:35
EXTERNAL STANDARD	0.078	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.079	10:36
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.078	10:37
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.079	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.079	10:39
BLANK TEST	0.000	10:40

Average = 0.0786
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100354

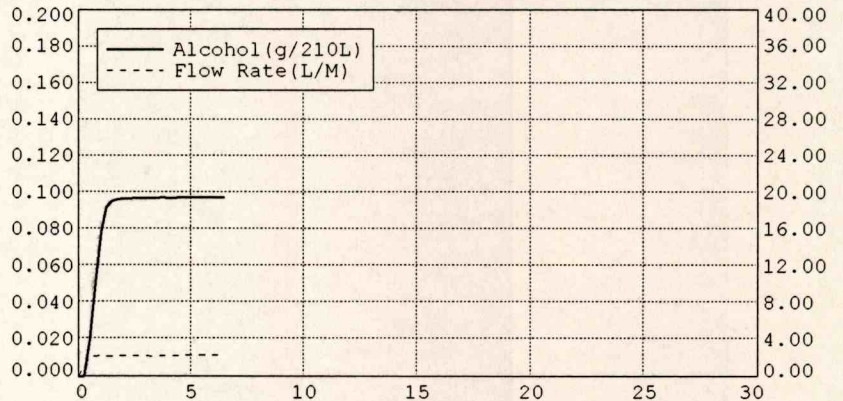
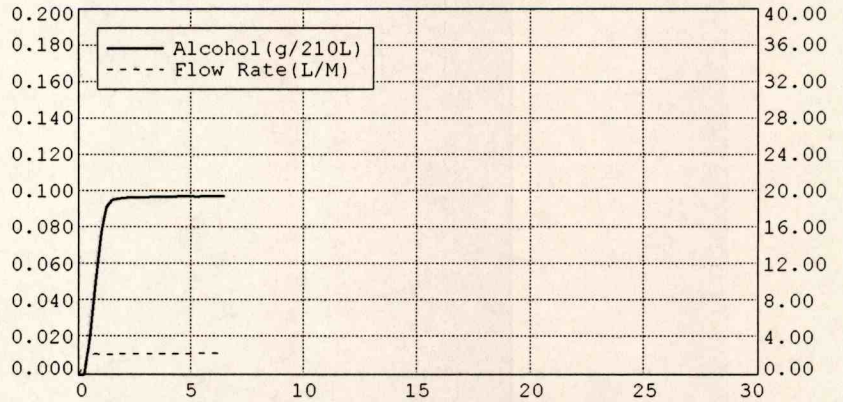
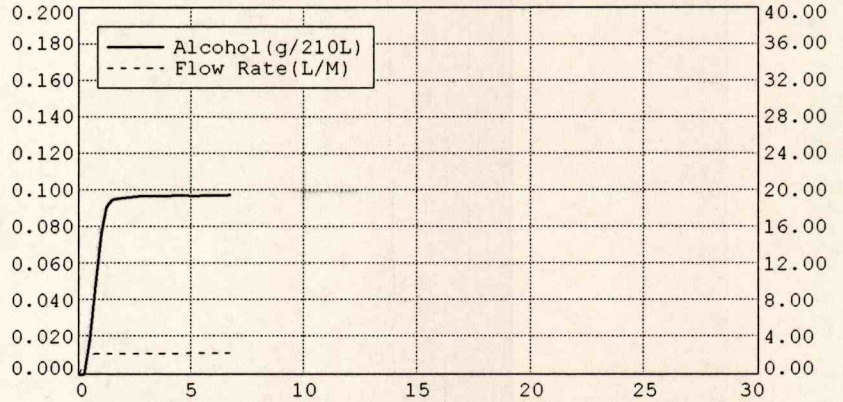
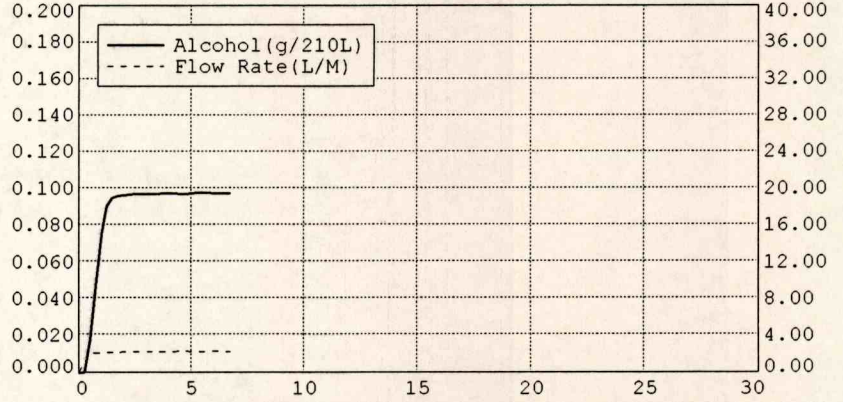
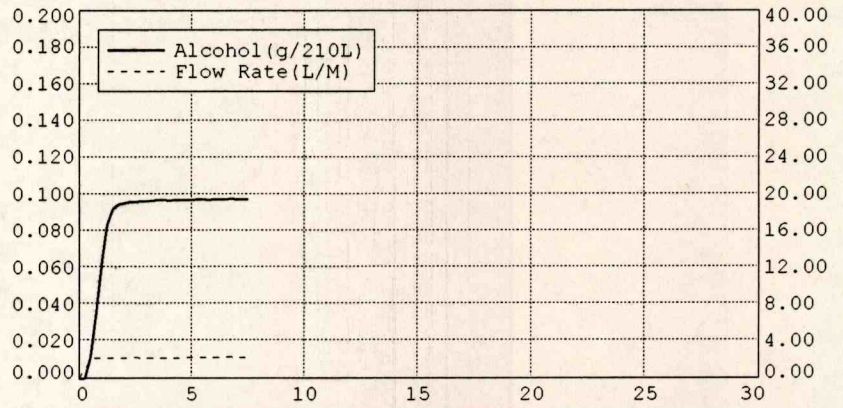
Date: 01/08/2020
 Time: 10:41:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.83: 0.100
 LOT #: AG805903
 EXPIRATION: 02/28/2020
 TANK PRESSURE: 571 psi

BLANK TEST	0.000	10:42
INTERNAL STANDARD	VERIFIED	10:42
EXTERNAL STANDARD	0.099	10:43
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.099	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.098	10:45
BLANK TEST	0.000	10:46
EXTERNAL STANDARD	0.098	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.099	10:47
BLANK TEST	0.000	10:48

Average = 0.0986
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

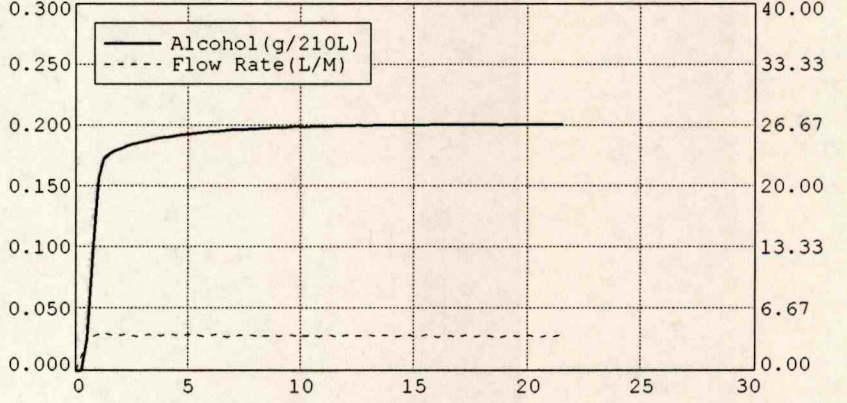
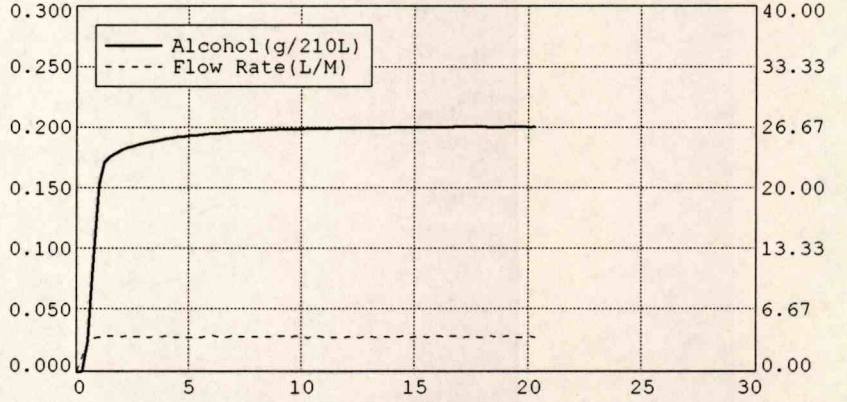
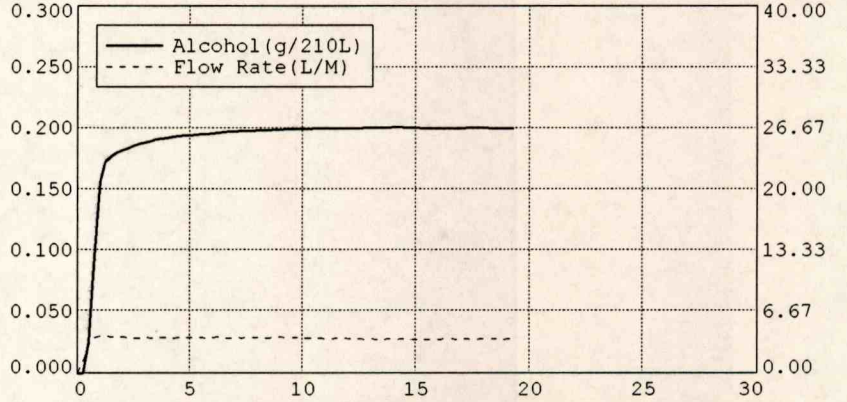
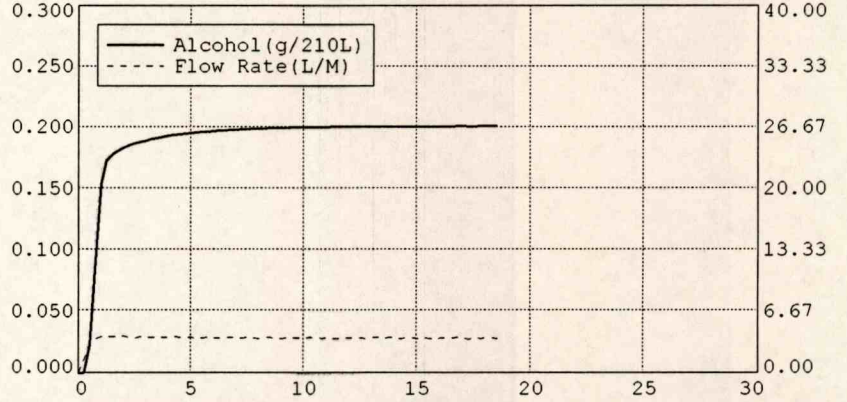
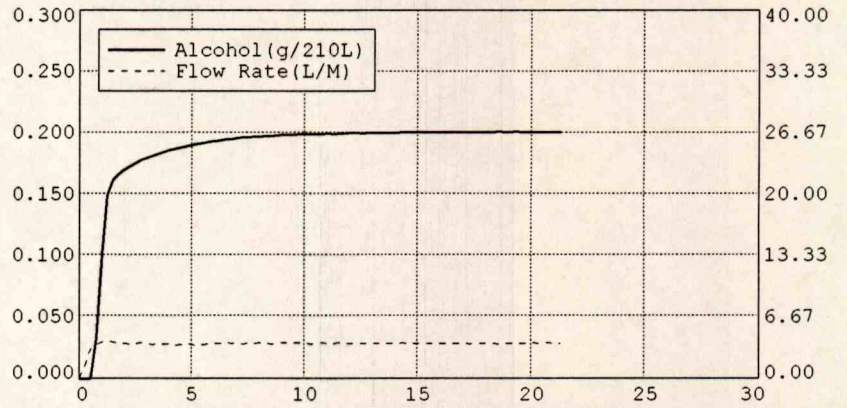
Alaska Department of Public Safety
 DATAMASTER dmt: 100354

Date: 01/08/2020
 Time: 11:00:17

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 19040
 EXPIRATION: 01/29/2021

BLANK TEST	0.000	11:11
INTERNAL STANDARD	VERIFIED	11:11
EXTERNAL STANDARD	0.202	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.202	11:13
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.201	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.202	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.202	11:17
BLANK TEST	0.000	11:18

Average = 0.2018
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

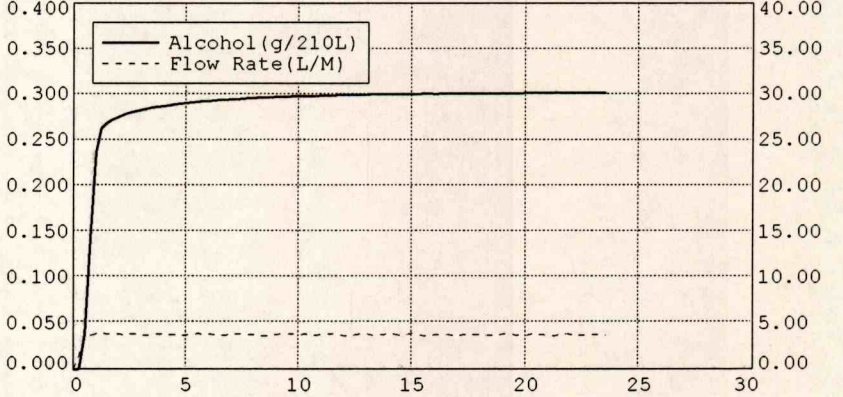
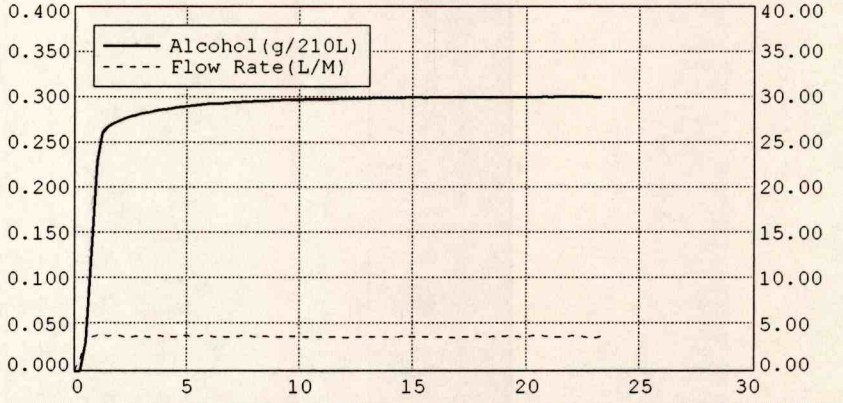
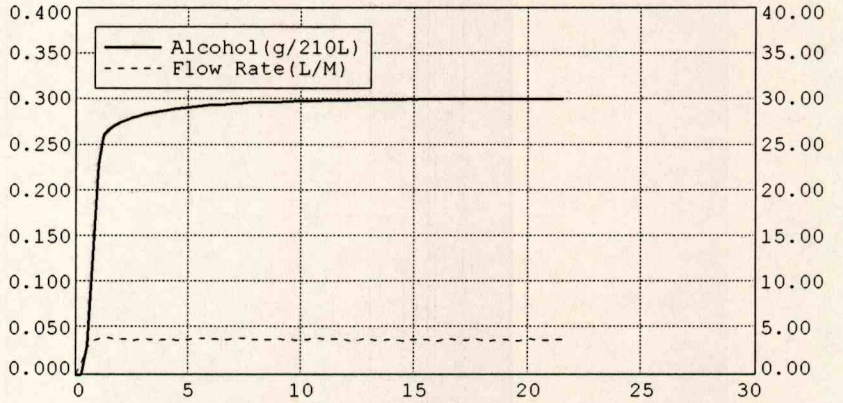
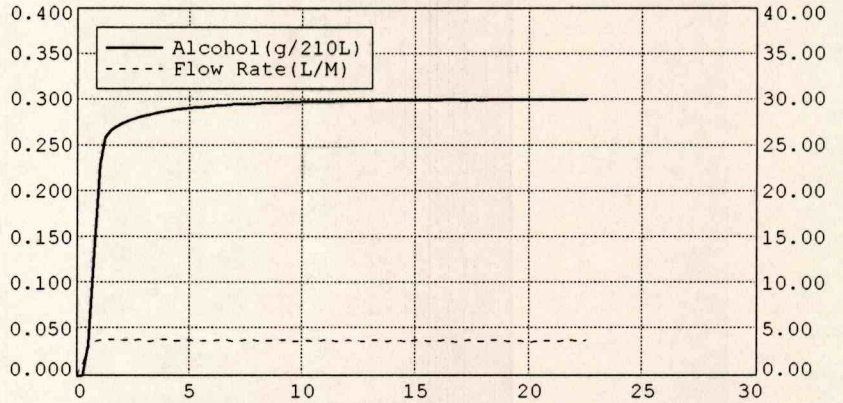
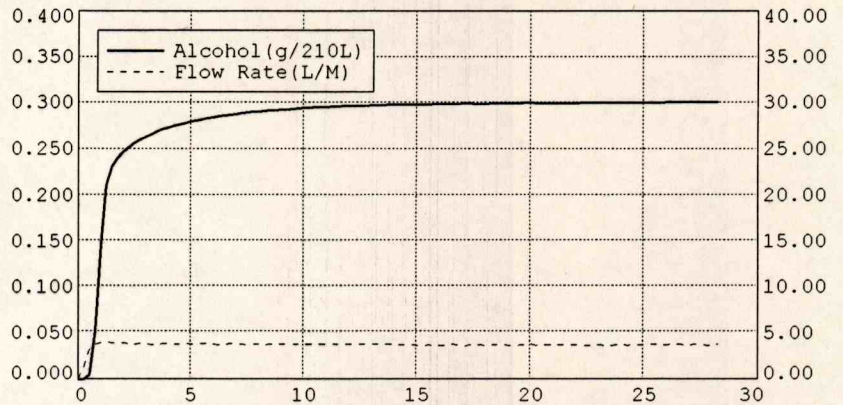
Alaska Department of Public Safety
 DATAMASTER dmt: 100354

Date: 01/08/2020
 Time: 11:21:56

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 19010
 EXPIRATION: 01/03/2021

BLANK TEST	0.000	11:23
INTERNAL STANDARD	VERIFIED	11:23
EXTERNAL STANDARD	0.301	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.301	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.301	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.301	11:28
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.302	11:29
BLANK TEST	0.000	11:30

Average = 0.3012
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100354

Date: 01/08/2020
Time: 11:44:13

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

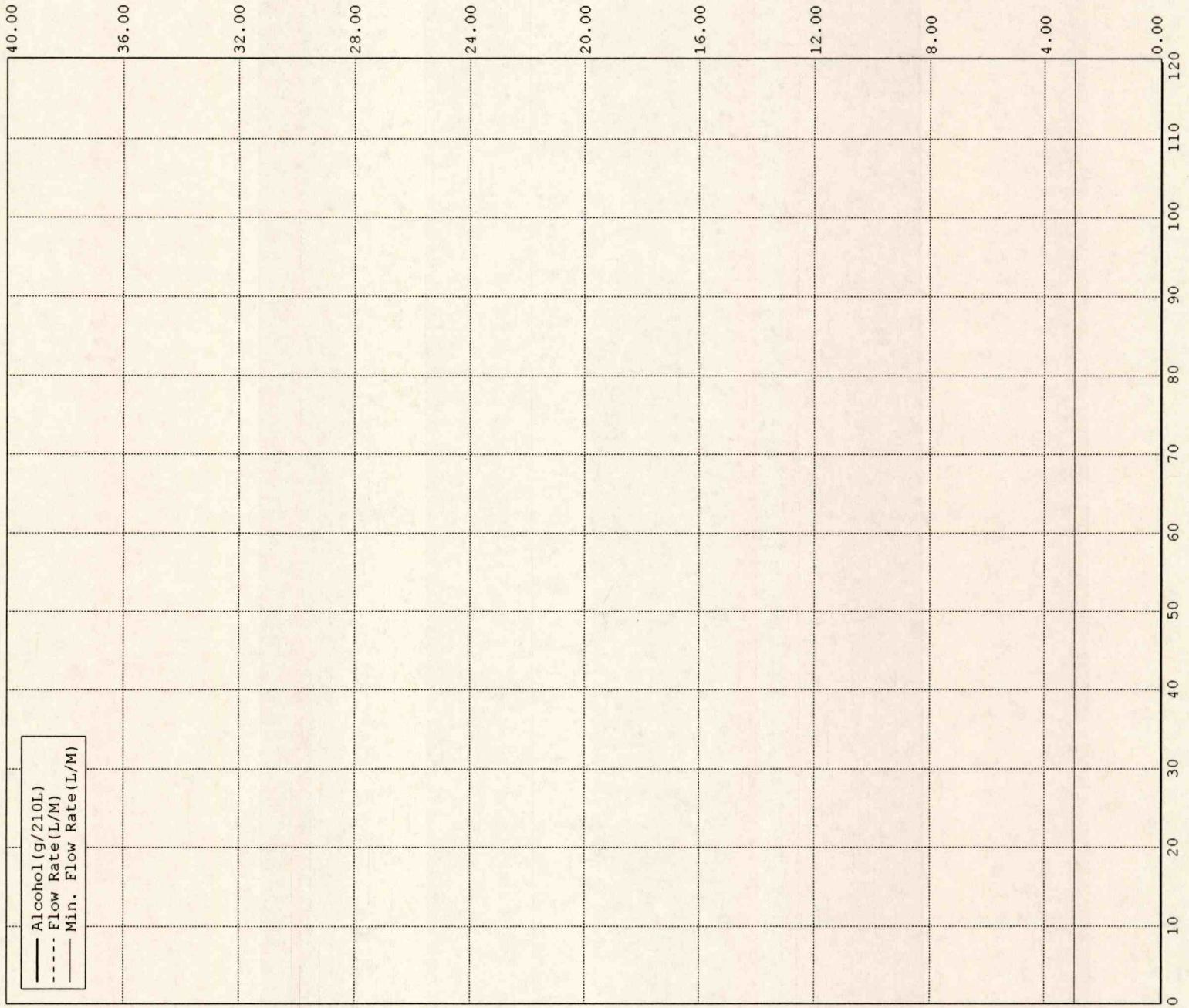
DEPT/AGENCY:
INCOMPLETE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 11:45
BLANK TEST 0.000 11:45
INTERNAL STANDARD VERIFIED 11:45
EXTERNAL STANDARD 0.078 11:45
BLANK TEST 0.000 11:46
SUBJECT SAMPLE INCOMPLETE 11:48

DM

Alcohol (g/210L)
Flow Rate (L/M)
Min. Flow Rate (L/M)



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100354

Date: 01/09/2020
Time: 09:34:11

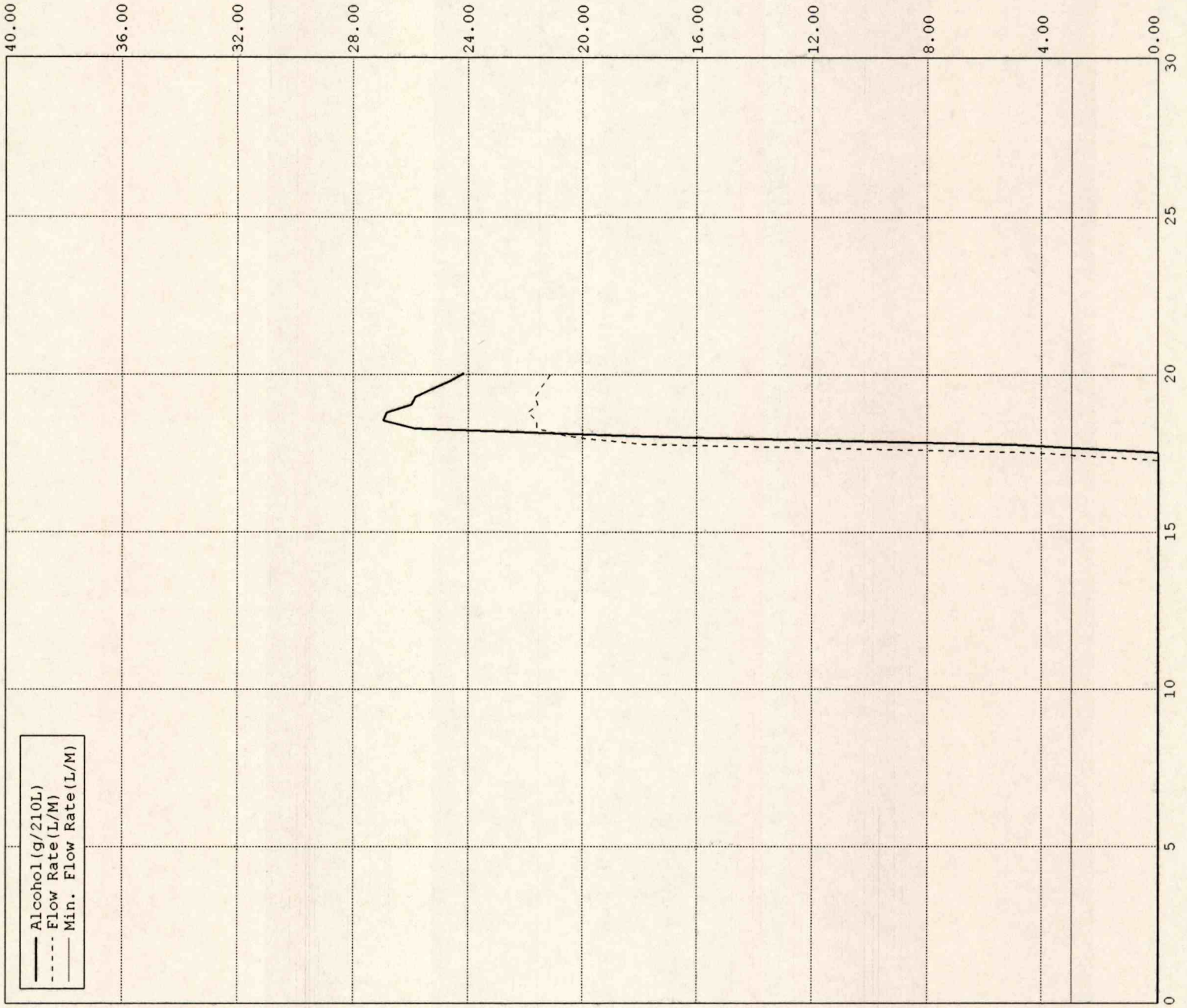
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

DEPT/AGENCY:
INVALID
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.73: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 09:37
BLANK TEST 0.000 09:37
INTERNAL STANDARD VERIFIED 09:37
EXTERNAL STANDARD 0.079 09:37
BLANK TEST 0.000 09:38
SUBJECT SAMPLE INVALID 09:39



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100354

Date: 01/08/2020

Time: 15:12:21

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

DEREK WALTON

OPERATOR'S #: 9508

DEPT/AGENCY:

INTERFERENCE ACETONE

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.87: 0.080

LOT #: AG826101

EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK

BLANK TEST 0.000 PASSED 15:14

INTERNAL STANDARD 0.079 VERIFIED 15:15

Xq = 0.096 (0.28%)

EXTERNAL STANDARD 0.079 15:15

X[1] = 0.0785 (-0.0022) (0.0018)

BLANK TEST 0.000 15:16

SUBJECT SAMPLE XXX 15:16

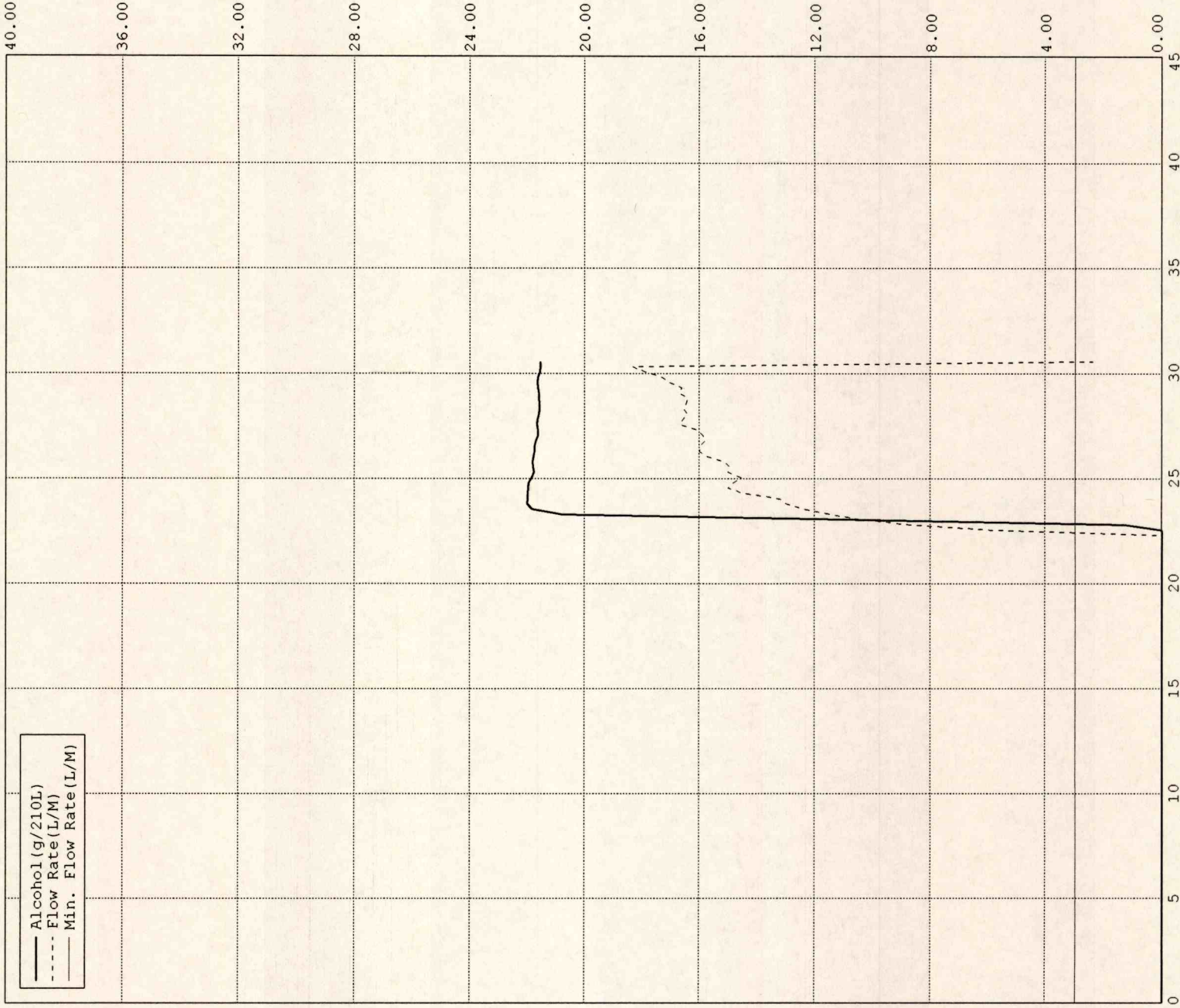
X[1] = 0.1085 (-0.0208) (0.0004)

Interference Detected

Filter 2 Avg: -0.0023

Filter 3 Avg: 0.0017

JMW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100354

Date: 01/08/2020
Time: 15:24:06

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

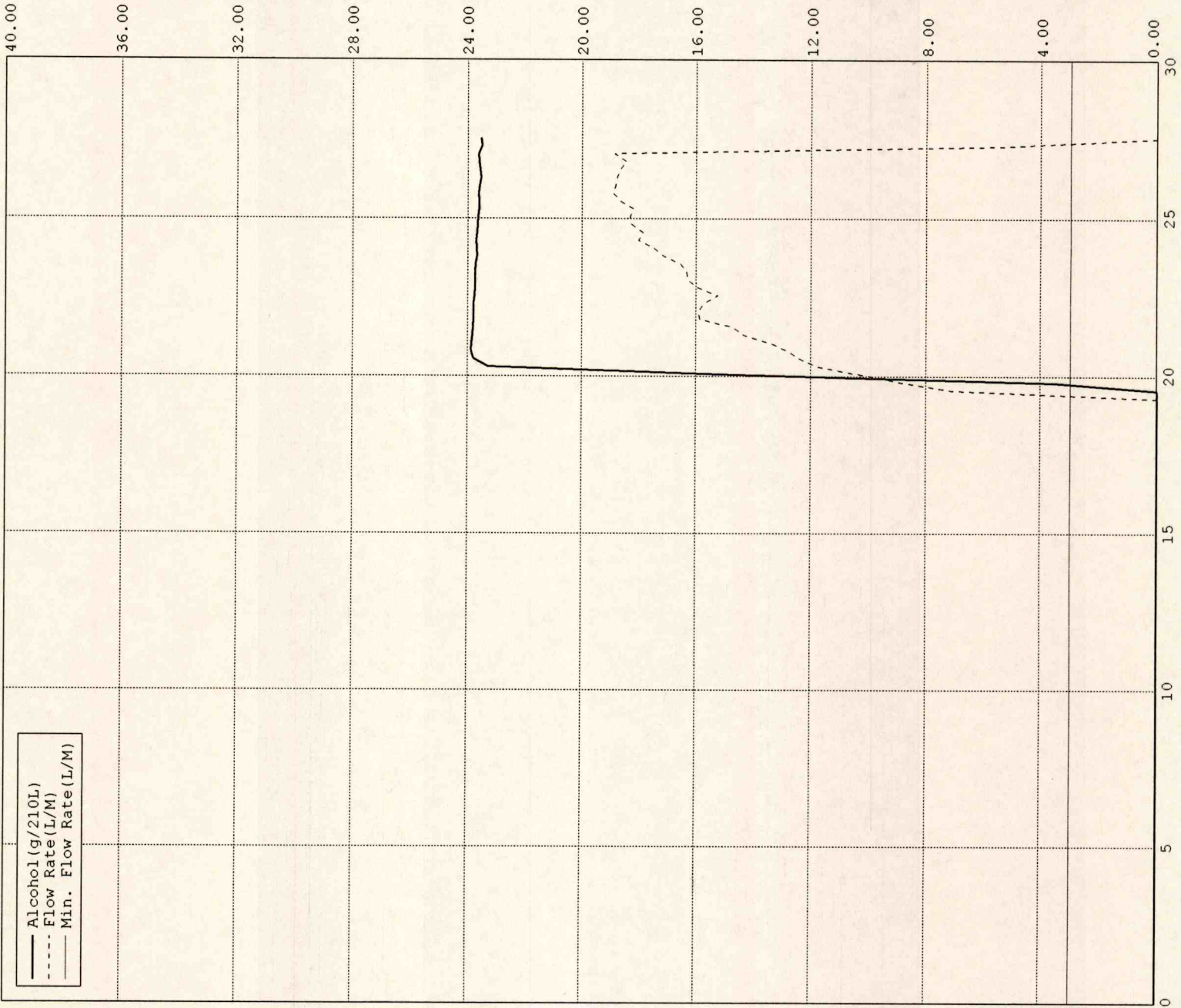
DEPT/AGENCY:
INTERFERENCE ISOPROPANOL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.86: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	15:25
BLANK TEST	0.000	15:26
INTERNAL STANDARD	VERIFIED	15:26
Xq = 0.095 (0.00%)		
EXTERNAL STANDARD	0.078	15:26
X[1] = 0.0778 (-0.0025) (0.0018)		
BLANK TEST	0.000	15:27
SUBJECT SAMPLE	XXX	15:27
X[1] = 0.1185 (-0.0302) (0.0012)		

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100354

Date: 01/08/2020
Time: 15:41:31

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

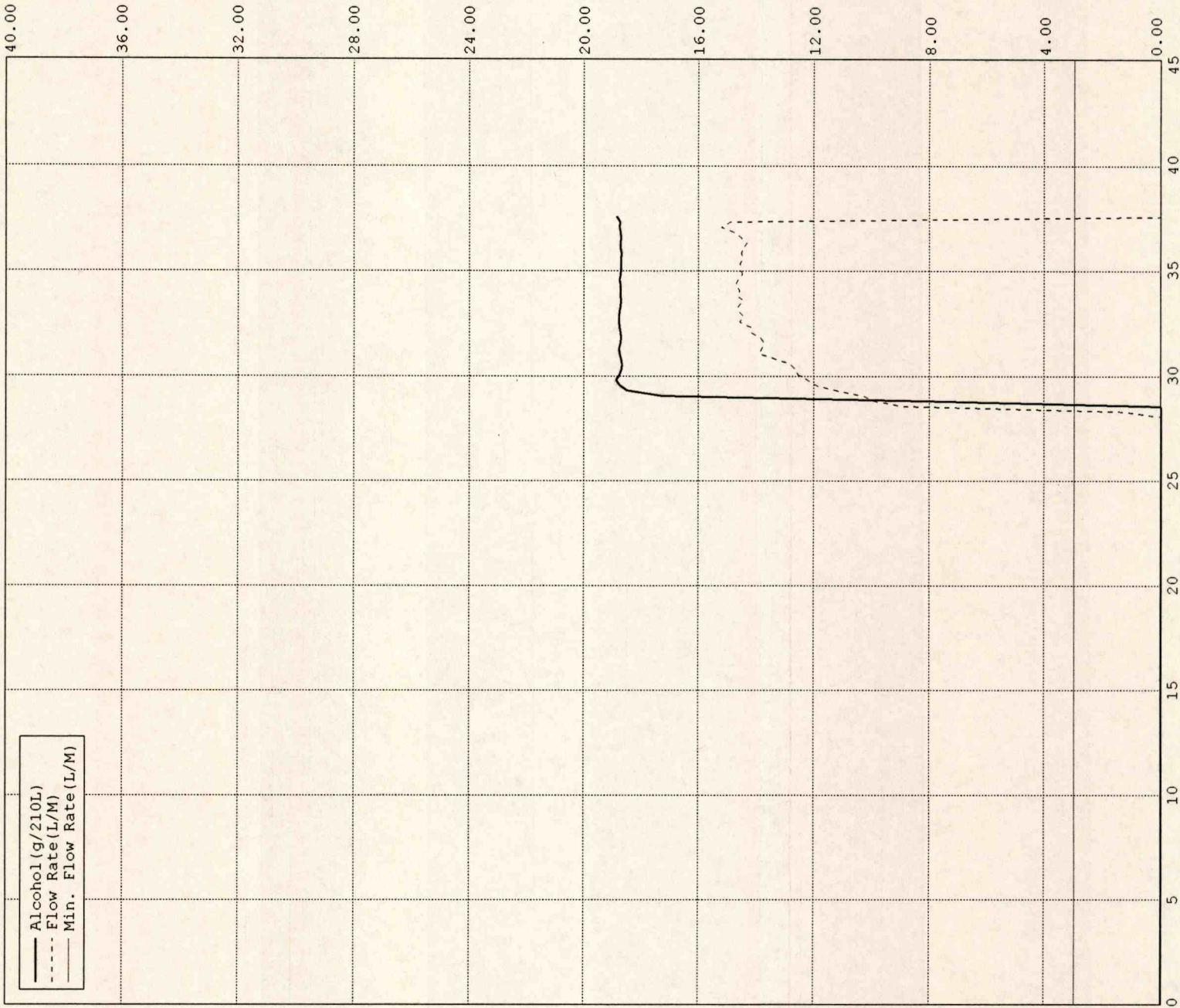
DEPT/AGENCY:
INTERFERENCE NEGATIVE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.86: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	15:43
BLANK TEST	0.000	15:44
INTERNAL STANDARD	VERIFIED	15:44
$X_q = 0.096$ (0.37%)		
EXTERNAL STANDARD	0.079	15:44
$X[1] = 0.0789$ (-0.0016)	(0.0018)	
BLANK TEST	0.000	15:45
SUBJECT SAMPLE (Vol=2.05L)	0.095	15:45
$X[1] = 0.0950$ (-0.0015)	(-0.0003)	
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.078	15:47
$X[1] = 0.0780$ (-0.0027)	(0.0014)	
BLANK TEST	0.000	15:48

DM



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100354

Date: 01/09/2020
Time: 09:26:21

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

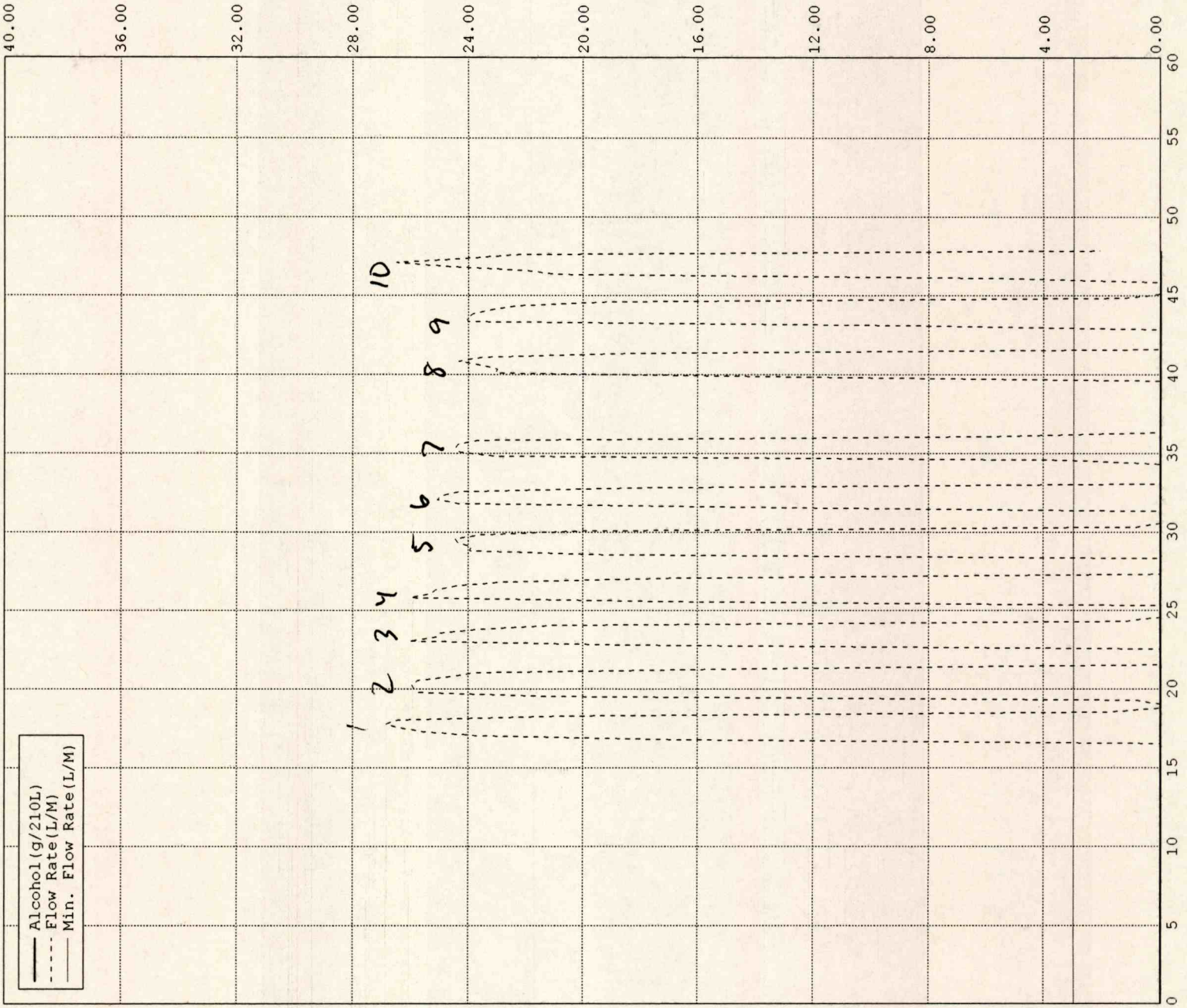
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

DEPT/AGENCY:
MAXIMUM ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK
BLANK TEST PASSED 09:27
INTERNAL STANDARD VERIFIED 09:28
EXTERNAL STANDARD 0.078 09:28
BLANK TEST 0.000 09:29
SUBJECT SAMPLE XXX 09:30

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100354

Date: 01/09/2020
Time: 09:58:36

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

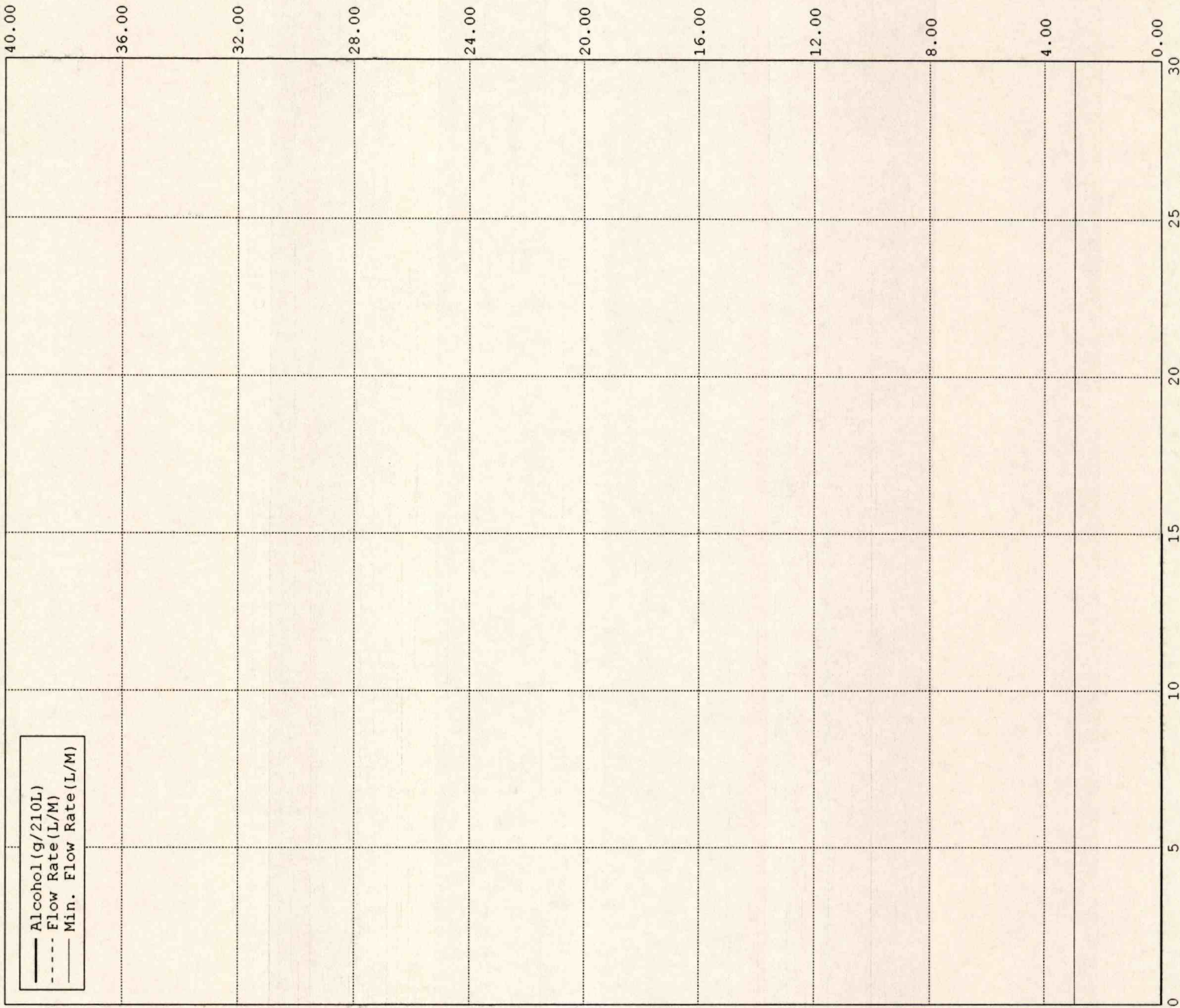
DEPT/AGENCY:
RADIO FREQUENCY
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.73: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 09:59
BLANK TEST 0.000 09:59
INTERNAL STANDARD VERIFIED 09:59
EXTERNAL STANDARD 0.078 10:00
BLANK TEST 0.000 10:01

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100354

Date: 01/09/2020
Time: 11:13:50

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
TARGET AT 29.71: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	11:14
BLANK TEST	0.000	11:14
INTERNAL STANDARD	VERIFIED	11:15
EXTERNAL STANDARD	0.079	11:15
BLANK TEST	0.000	11:16
SUBJECT SAMPLE (Vol=3.06L)	0.000	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.079	11:17
BLANK TEST	0.000	11:18

MW

