

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 100675 Analyst C. O. Bryant Start Date 2/26/2020

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 1.5 L (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf Aurgas Lot AG805804 Exp 2/27/20

ii. 0.040g/210L Mnf Aurgas Lot AG915607 Exp 6/5/21

iii. 0.080g/210L Mnf Aurgas Lot AG826101 Exp 9/18/20

iv. 0.100g/210L Mnf Aurgas Lot AG805903 Exp 2/28/20

v. 0.200g/210L Mnf Guth Lot 19040 Exp 1/29/21

I. Simulator S/N DR4162 Date Calibrated 10/7/19

vi. 0.300g/210L Mnf Guth Lot 19330 Exp 11/13/21

I. Simulator S/N DR4008 Date Calibrated 10/8/19

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 18370 Level 0.100 Exp 2/15/20

I. Simulator S/N SD1199 Date Calibrated 3/6/19

ii. Isopropanol - Mnf Guth Lot 18370 Level 0.100 Exp 2/15/20

I. Simulator S/N DR4161 Date Calibrated 3/7/19

iii. Negative Control - Mnf Guth Lot 18370 Level 0.100 Exp 2/15/20

I. Simulator S/N SD1200 Date Calibrated 3/5/19

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 2/27/20

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 02/26/2020
Time: 10:02:56

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.65 V PASSED
(0.98 V - 2.28 V)
Cooler Voltage = 1.66 V PASSED
(1.00 V - 2.32 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 558 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.3 in

PUMP INFO

Flow Rate = 5.152 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.004 V <= 0.010 V)
PUMP OFF PASSED
(0.003 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

Xq = 0.084 1.44% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100675

Date: 02/26/2020
Time: 10:12 AM

Temperatures (°C)
Sample Cell: 48.8°C
Breath Tube: 48.1°C

Current Barometer 29.3 in
Volume (ltr) 1.57

Settings
Lamp: 1.73 V
Bias: 80 V
Cooler: 1.69 V
Chopper: 559 Hz

Voltages (V)
Flow: 1.07 V
Detector: -0.002 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 10/25/2011
Time: 10:29:44

Ca = 0.1000
CAL = 0.978693 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0031 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0849 0.0500 <= Xq < 0.2000
a21 = 1.192763 1.050 <= a21 < 1.300
a31 = 0.437617 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 02/26/2020
Time: 10:22:51

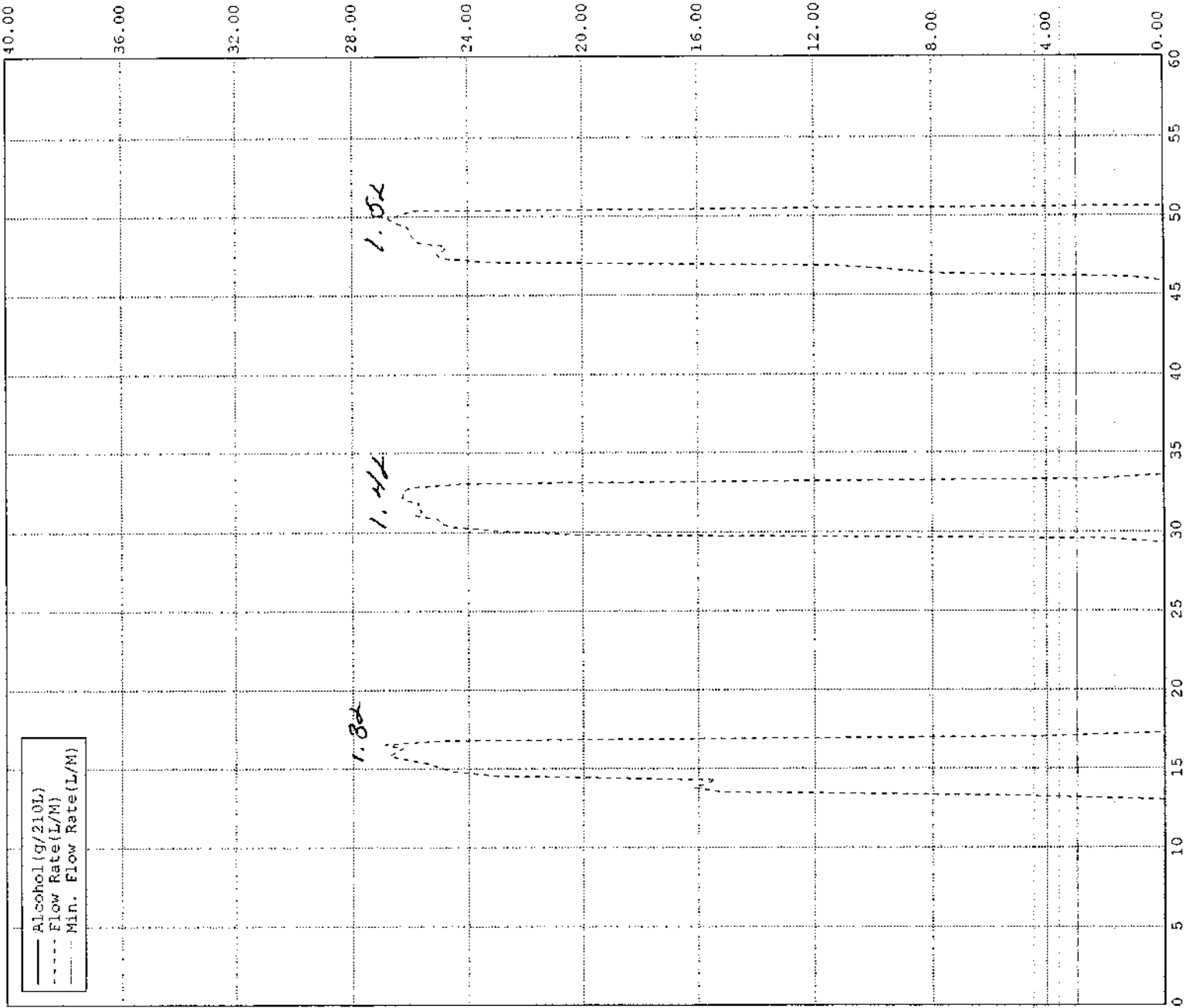
SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.27: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	10:24
BLANK TEST	0.000	10:25
INTERNAL STANDARD	VERIFIED	10:25
EXTERNAL STANDARD	0.077	10:25
BLANK TEST	0.000	10:26
SUBJECT SAMPLE (Vol=1.61L)	0.000	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.077	10:28
BLANK TEST	0.000	10:29



LINEARITY CHECK

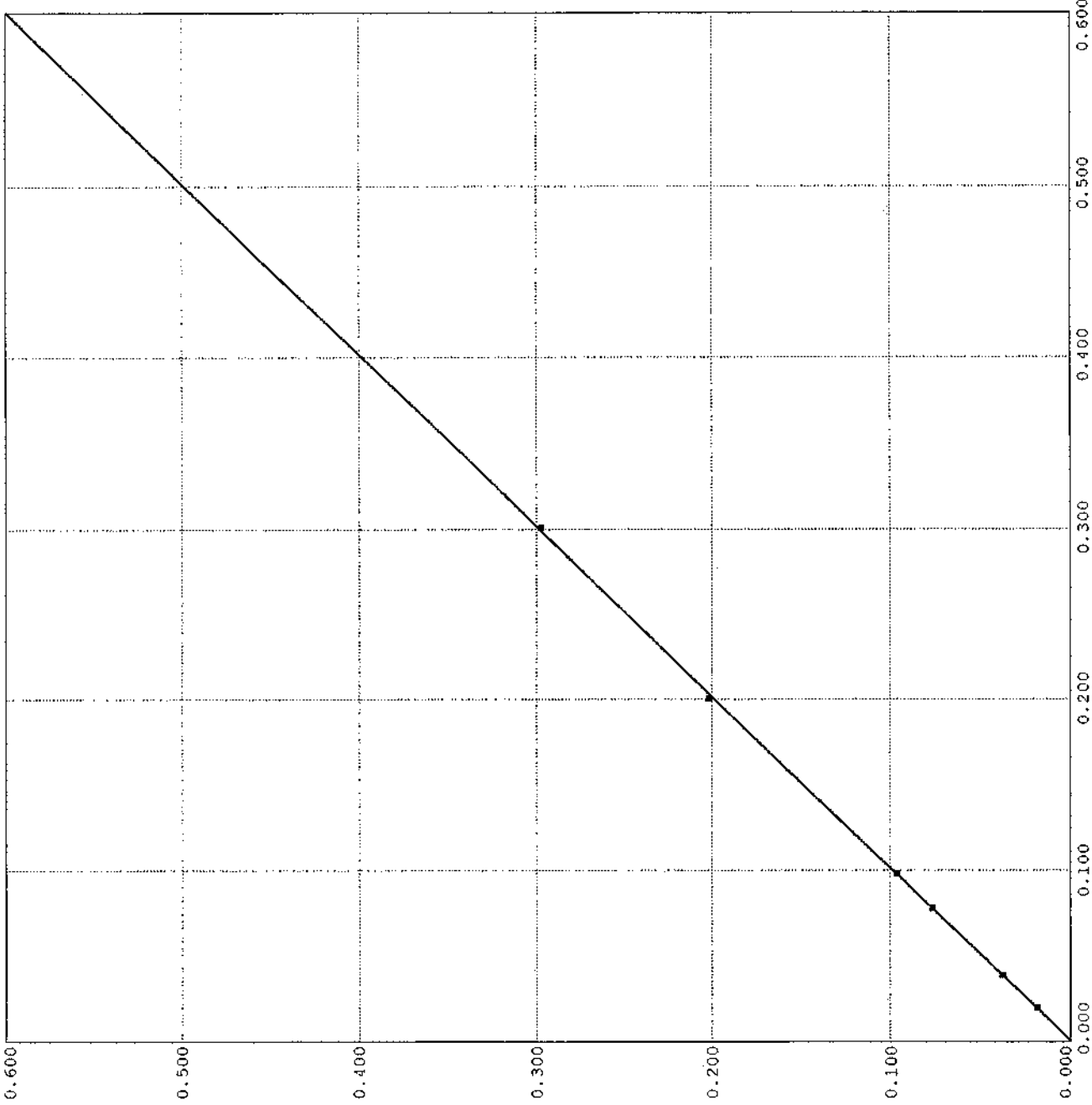
Alaska Department of Public Safety
 DATAMASTER dmt: 100675

Date: 02/26/2020
 Time: 10:37:02

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0194	0.0009
0.039	0.0388	0.0004
0.078	0.0774	0.0005
0.098	0.0972	0.0004
0.200	0.2026	0.0009
0.300	0.2982	0.0008

SLOPE = 1.000113
 R² = 0.999808



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100675

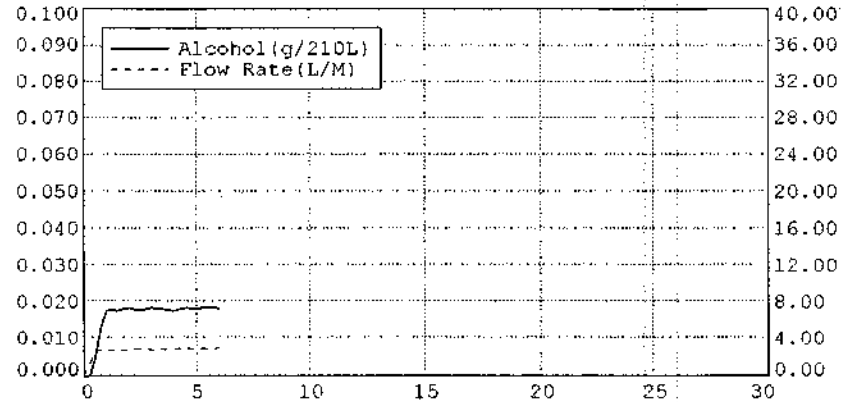
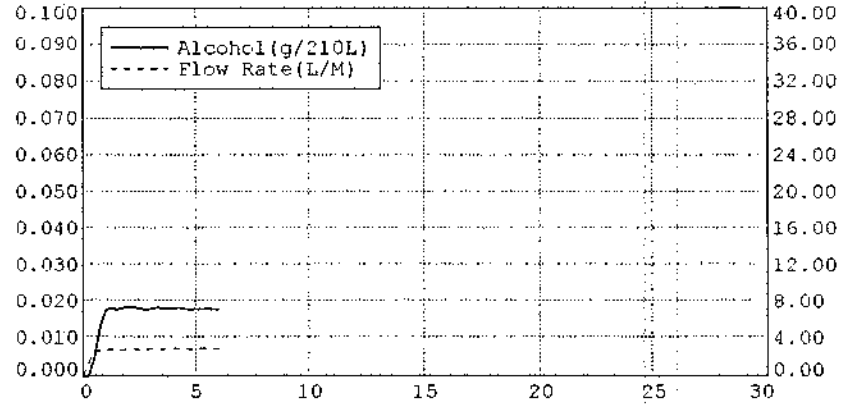
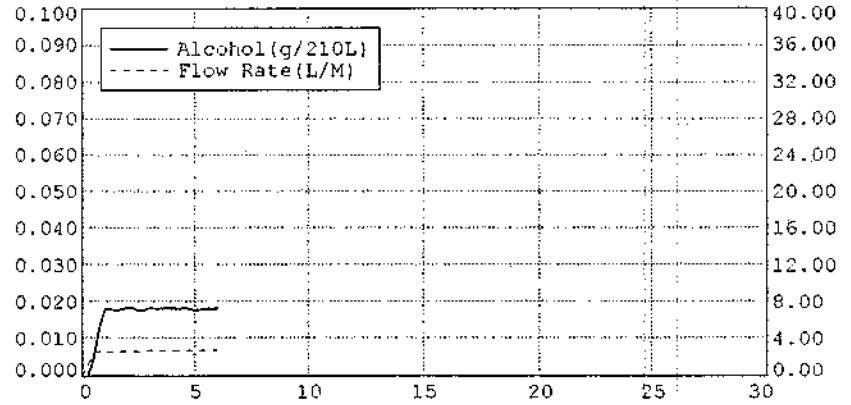
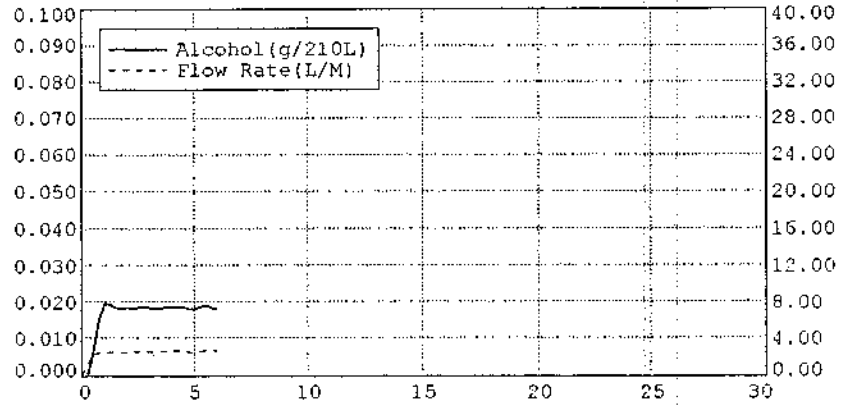
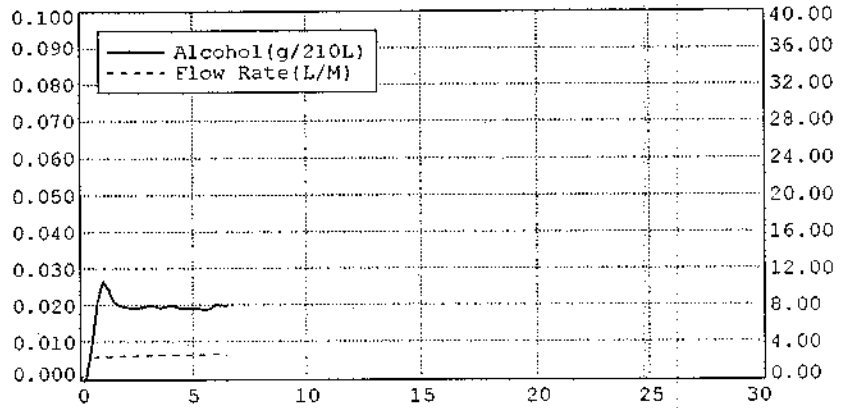
Date: 02/26/2020
Time: 10:37:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.27: 0.020
LOT #: AG805804
EXPIRATION: 02/27/2020
TANK PRESSURE: 337 psi

BLANK TEST	0.000	10:43
INTERNAL STANDARD	VERIFIED	10:44
EXTERNAL STANDARD	0.021	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.019	10:45
BLANK TEST	0.000	10:46
EXTERNAL STANDARD	0.019	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.019	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.019	10:48
BLANK TEST	0.000	10:49

Average = 0.0194
Std Dev = 0.0009



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100675

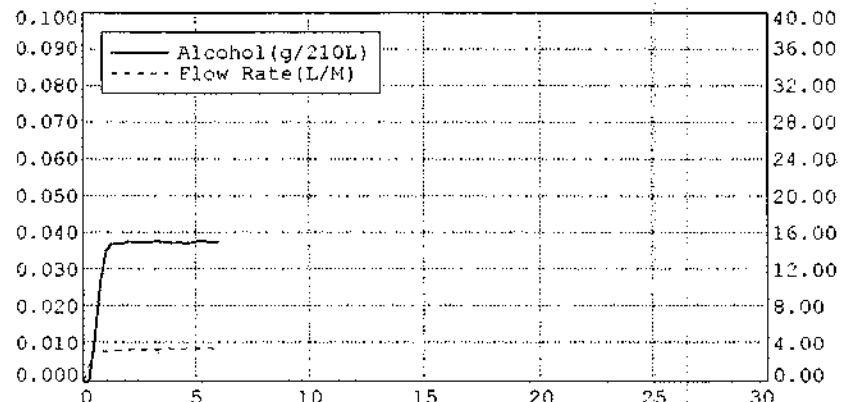
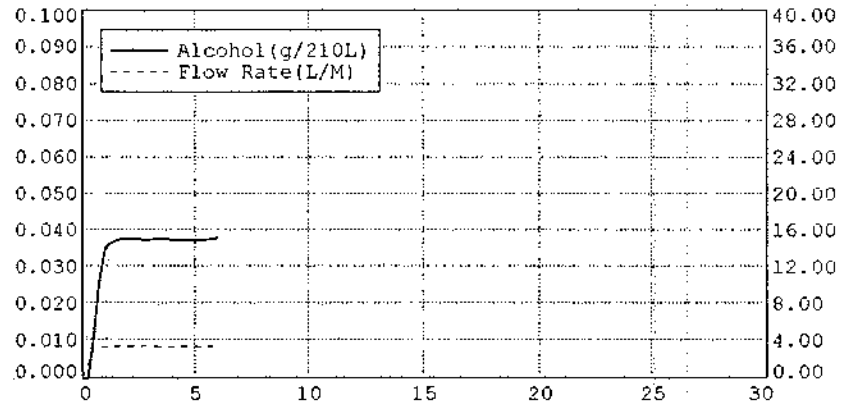
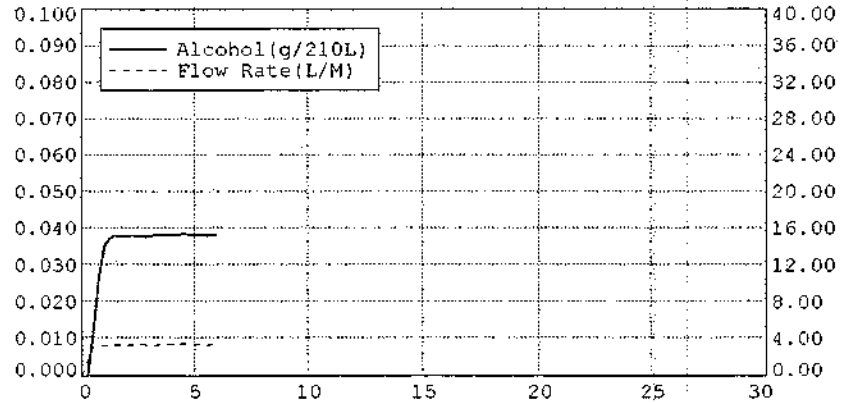
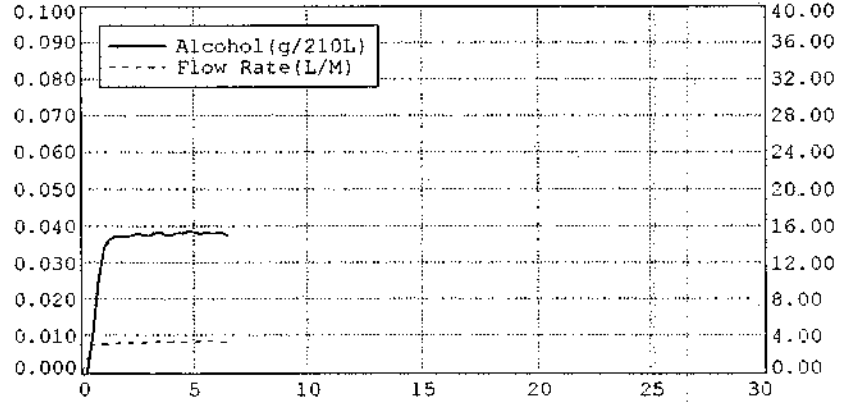
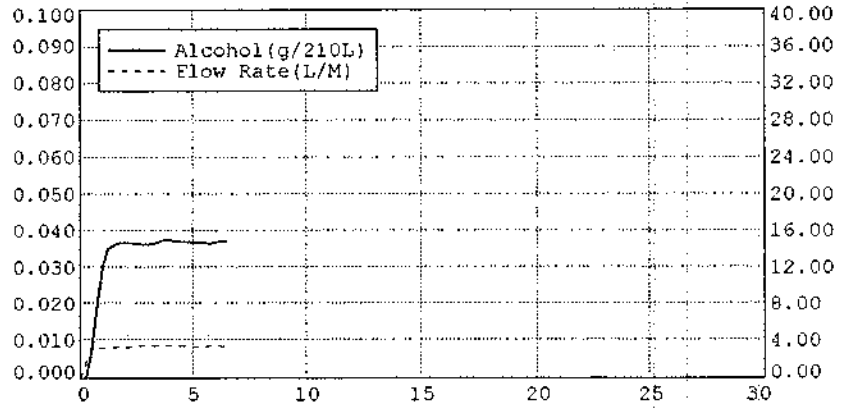
Date: 02/26/2020
Time: 10:50:20

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.27: 0.039
LOT #: AG915607
EXPIRATION: 06/05/2021
TANK PRESSURE: 860 psi

BLANK TEST	0.000	10:51
INTERNAL STANDARD	VERIFIED	10:51
EXTERNAL STANDARD	0.038	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.039	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.039	10:54
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.039	10:55
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.039	10:56
BLANK TEST	0.000	10:57

Average = 0.0388
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100675

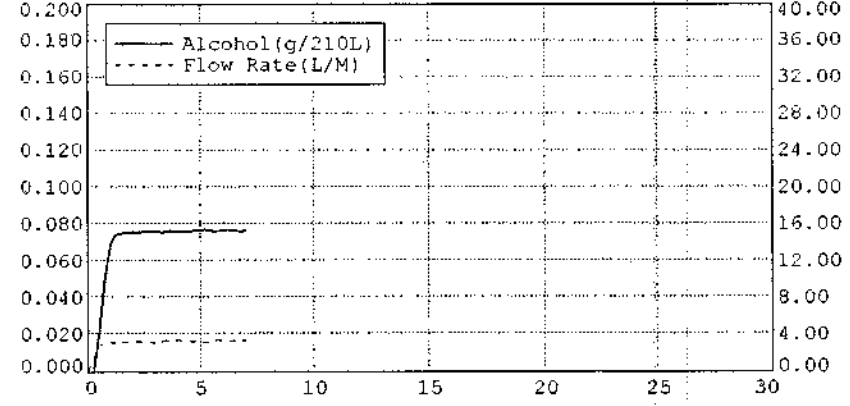
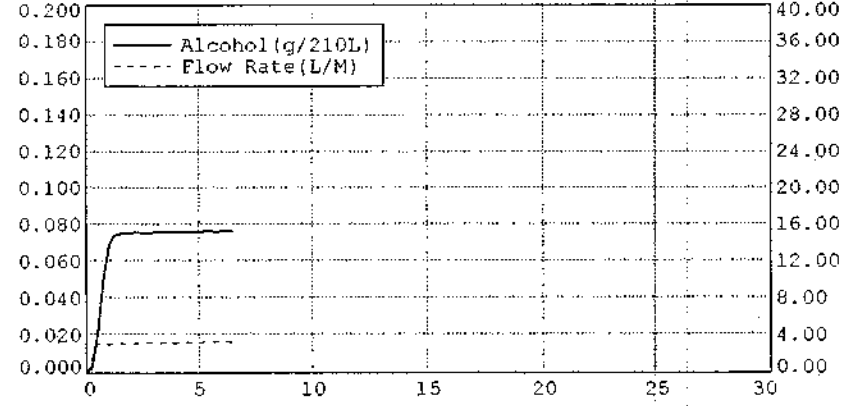
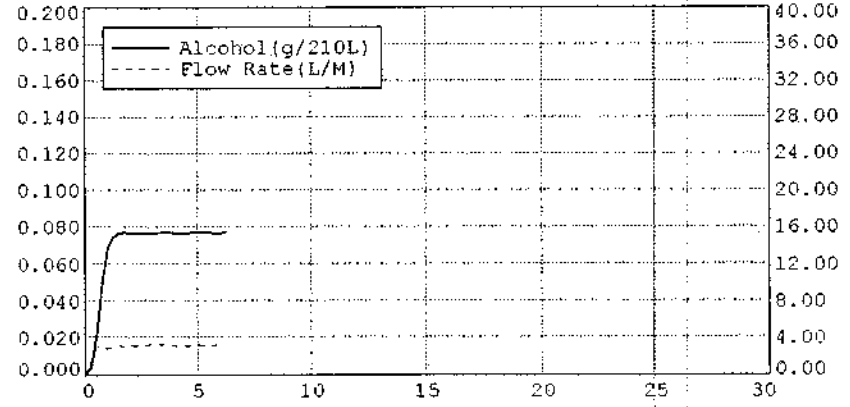
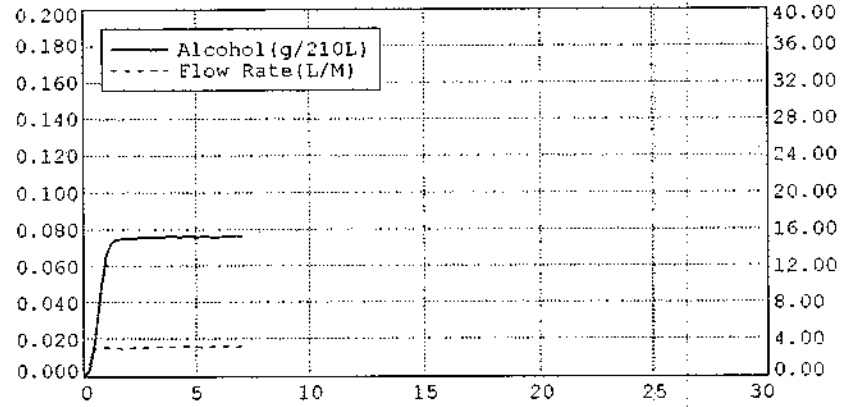
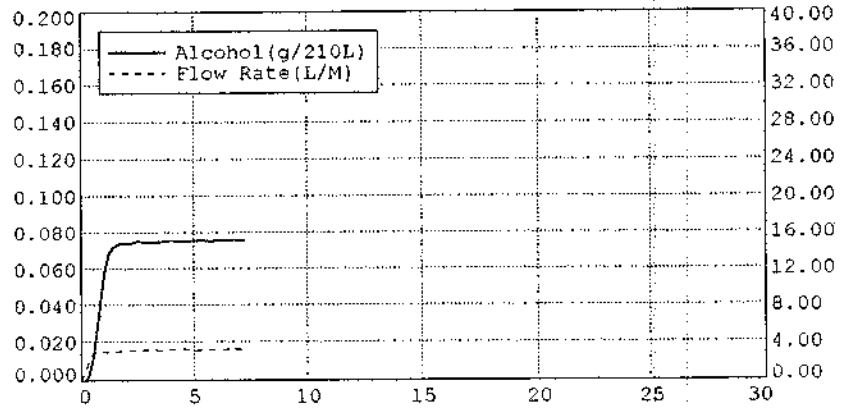
Date: 02/26/2020
 Time: 10:58:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.28: 0.078
 LOT #: AG826101
 EXPIRATION: 09/18/2020
 TANK PRESSURE: 675 psi

BLANK TEST	0.000	10:59
INTERNAL STANDARD	VERIFIED	10:59
EXTERNAL STANDARD	0.077	10:59
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.078	11:00
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.078	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.077	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.077	11:04
BLANK TEST	0.000	11:05

Average = 0.0774
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100675

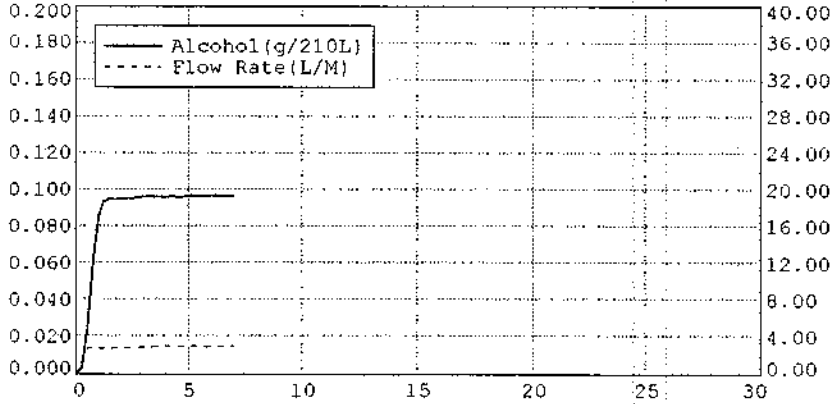
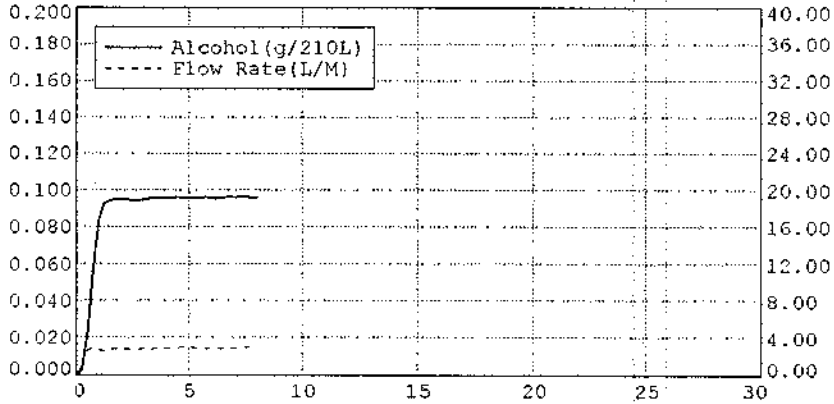
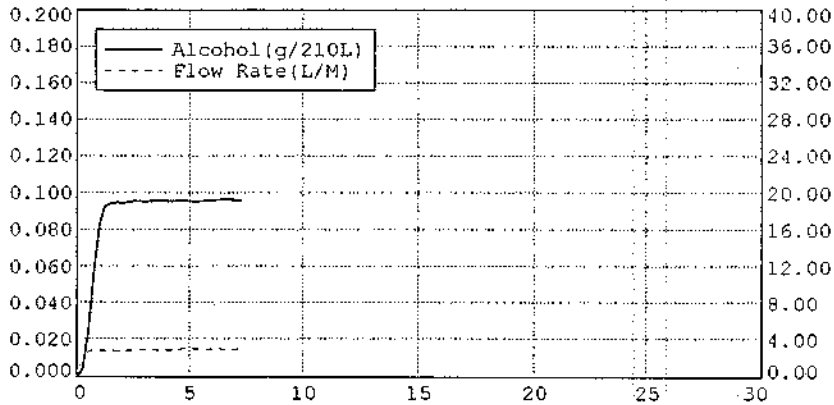
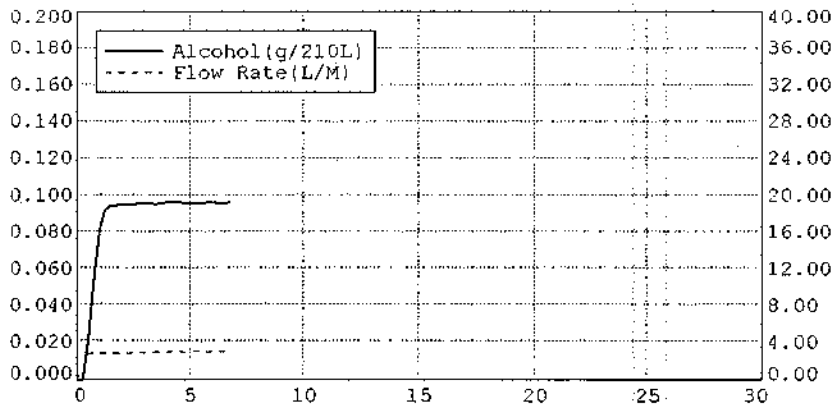
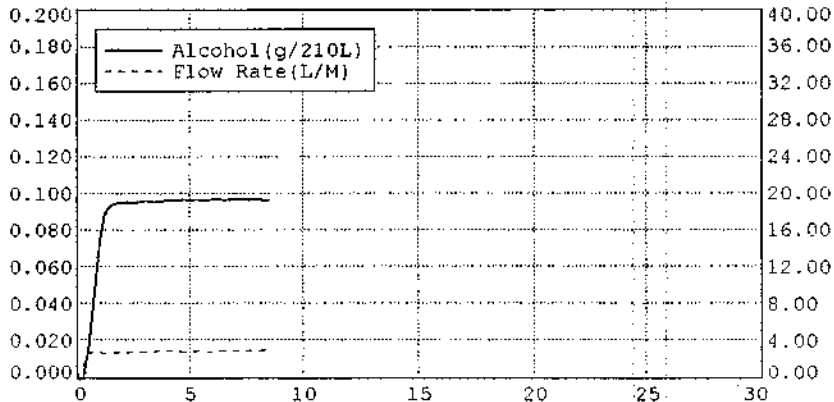
Date: 02/26/2020
 Time: 11:06:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.27: 0.098
 LOT #: AG805903
 EXPIRATION: 02/28/2020
 TANK PRESSURE: 379 psi

BLANK TEST	0.000	11:07
INTERNAL STANDARD	VERIFIED	11:08
EXTERNAL STANDARD	0.098	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.097	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.097	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.097	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.097	11:12
BLANK TEST	0.000	11:13

Average = 0.0972
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

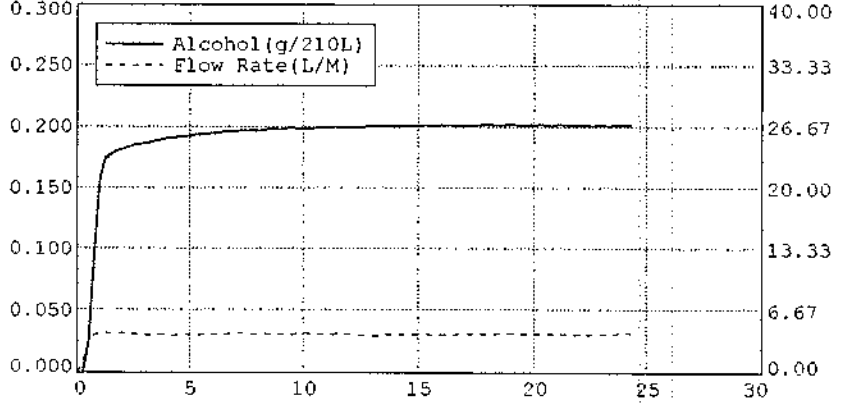
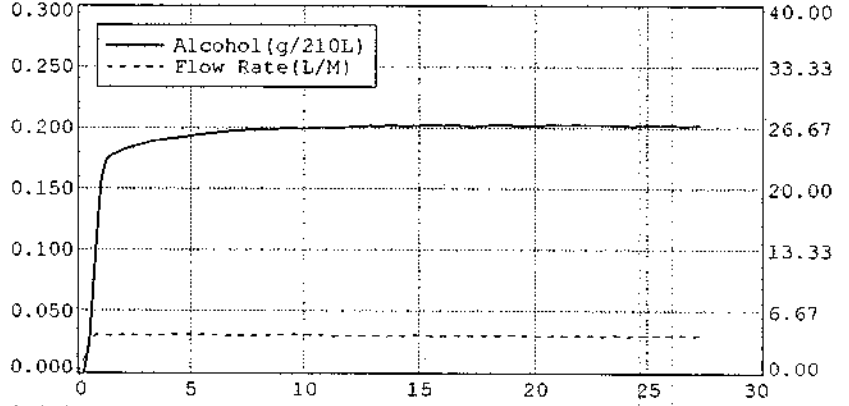
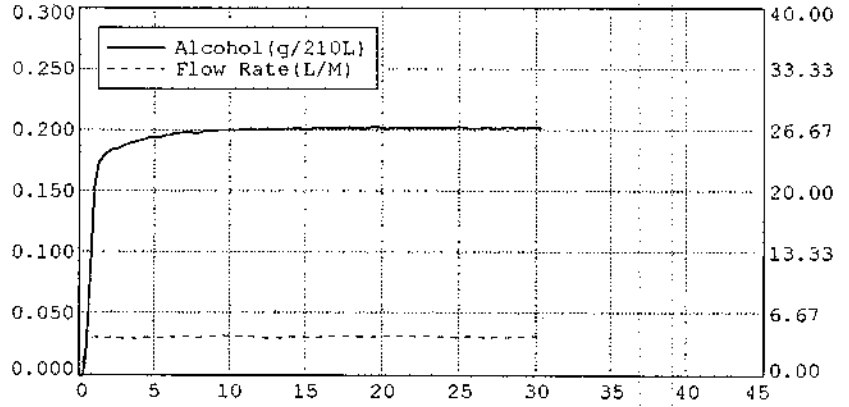
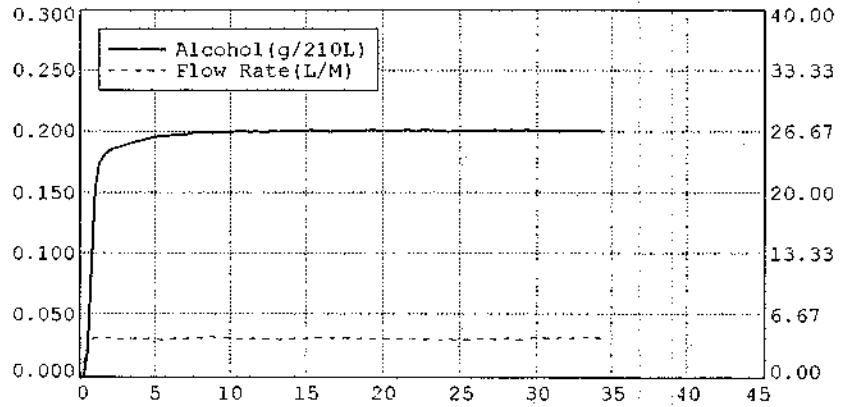
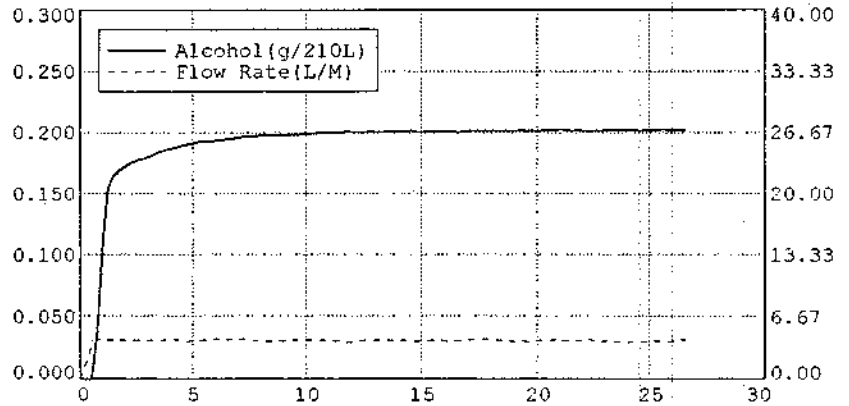
Alaska Department of Public Safety
 DATAMASTER dmt: 100675

Date: 02/26/2020
 Time: 11:15:16

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

BLANK TEST	0.000	11:16
INTERNAL STANDARD	VERIFIED	11:16
EXTERNAL STANDARD	0.203	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.201	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.203	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.203	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.203	11:23
BLANK TEST	0.000	11:23

Average = 0.2026
 Std Dev = 0.0009



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100675

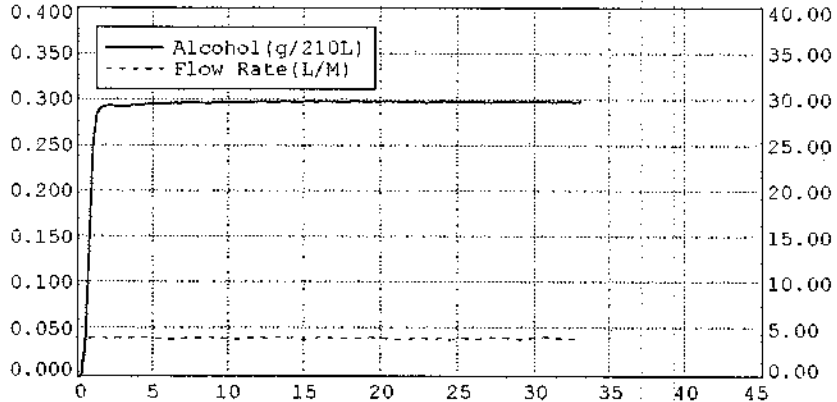
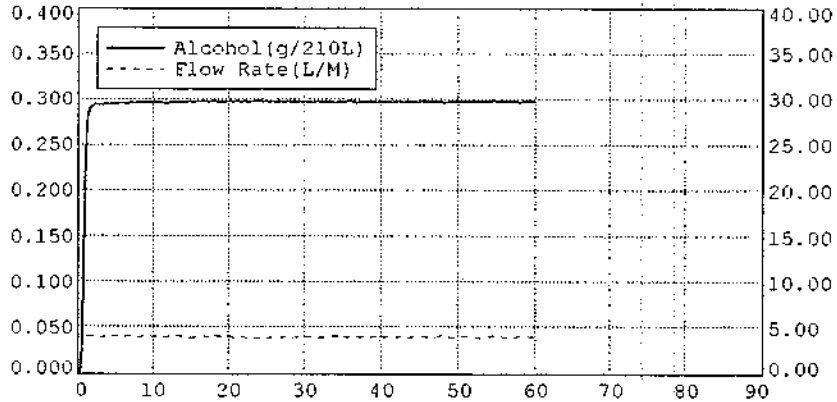
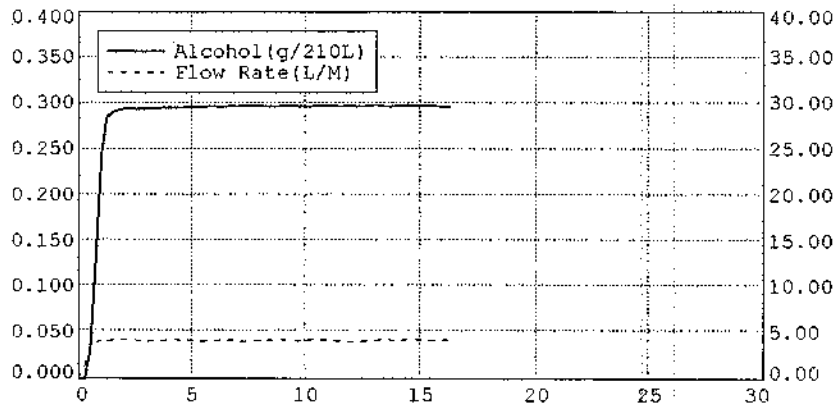
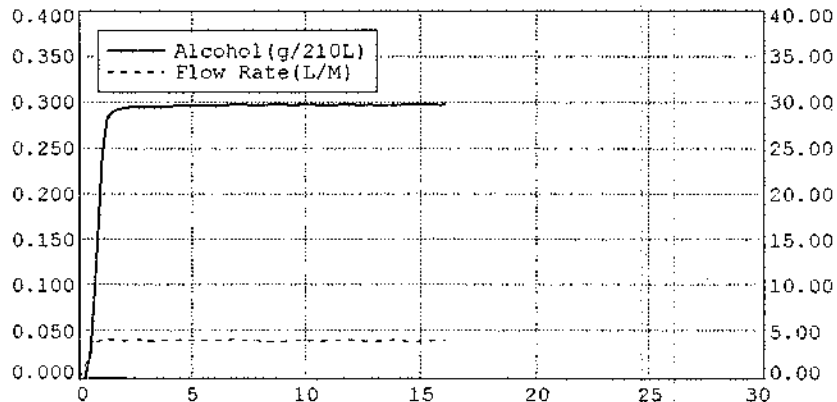
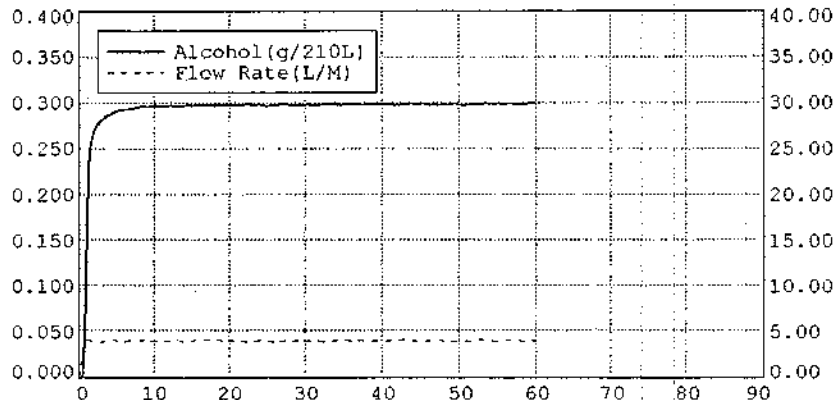
Date: 02/26/2020
 Time: 11:29:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 19330
 EXPIRATION: 11/13/2021

BLANK TEST	0.000	11:30
INTERNAL STANDARD	VERIFIED	11:30
EXTERNAL STANDARD	0.299	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.298	11:33
BLANK TEST	0.000	11:34
EXTERNAL STANDARD	0.297	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.299	11:36
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.298	11:38
BLANK TEST	0.000	11:39

Average = 0.2982
 Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 02/26/2020
Time: 13:34:33

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

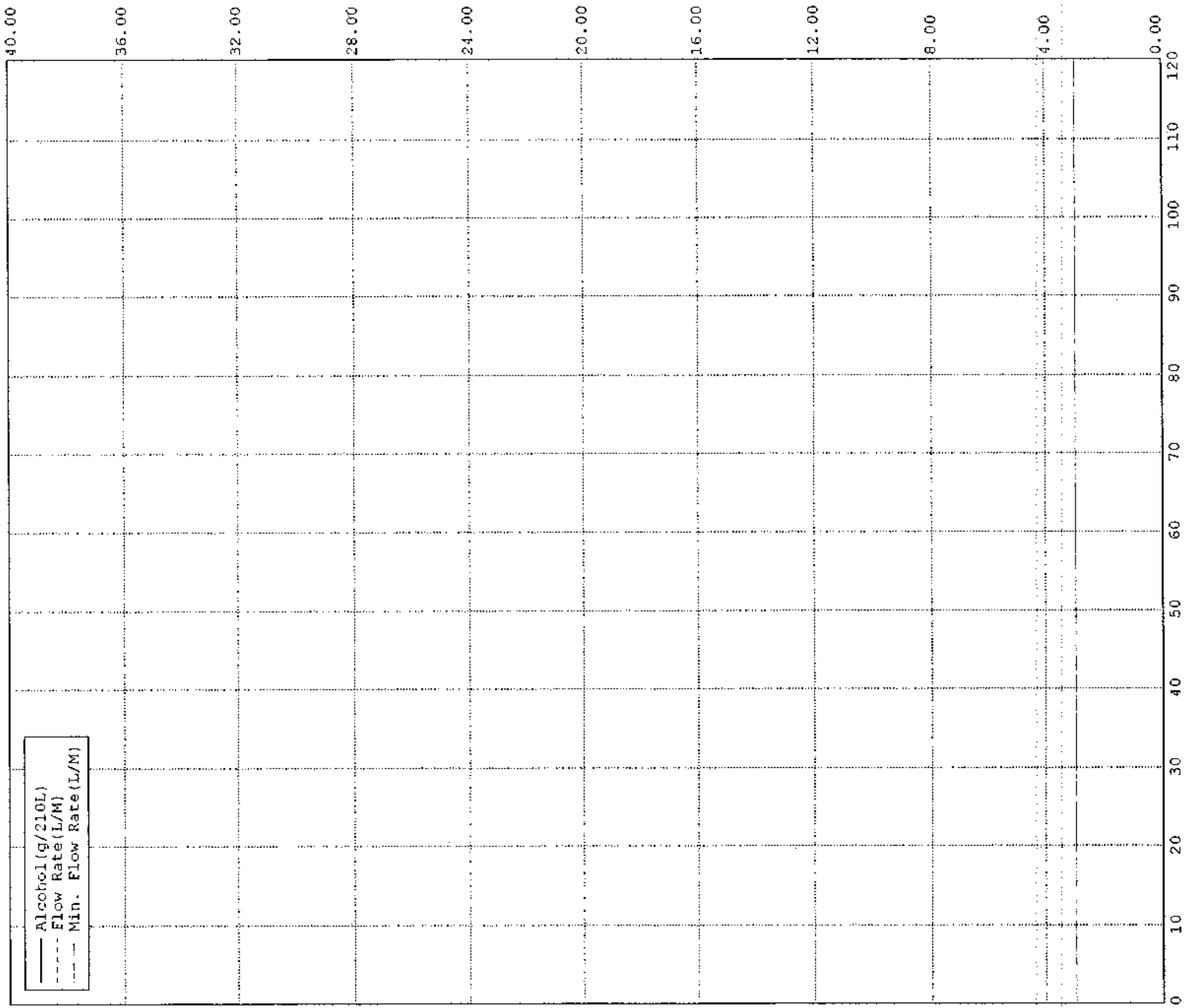
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.27: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 13:35
BLANK TEST 0.000 13:35
INTERNAL STANDARD VERIFIED 13:36
EXTERNAL STANDARD 0.077 13:36
BLANK TEST 0.000 13:37
SUBJECT SAMPLE INCOMPLETE 13:39



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 02/26/2020
Time: 13:42:10

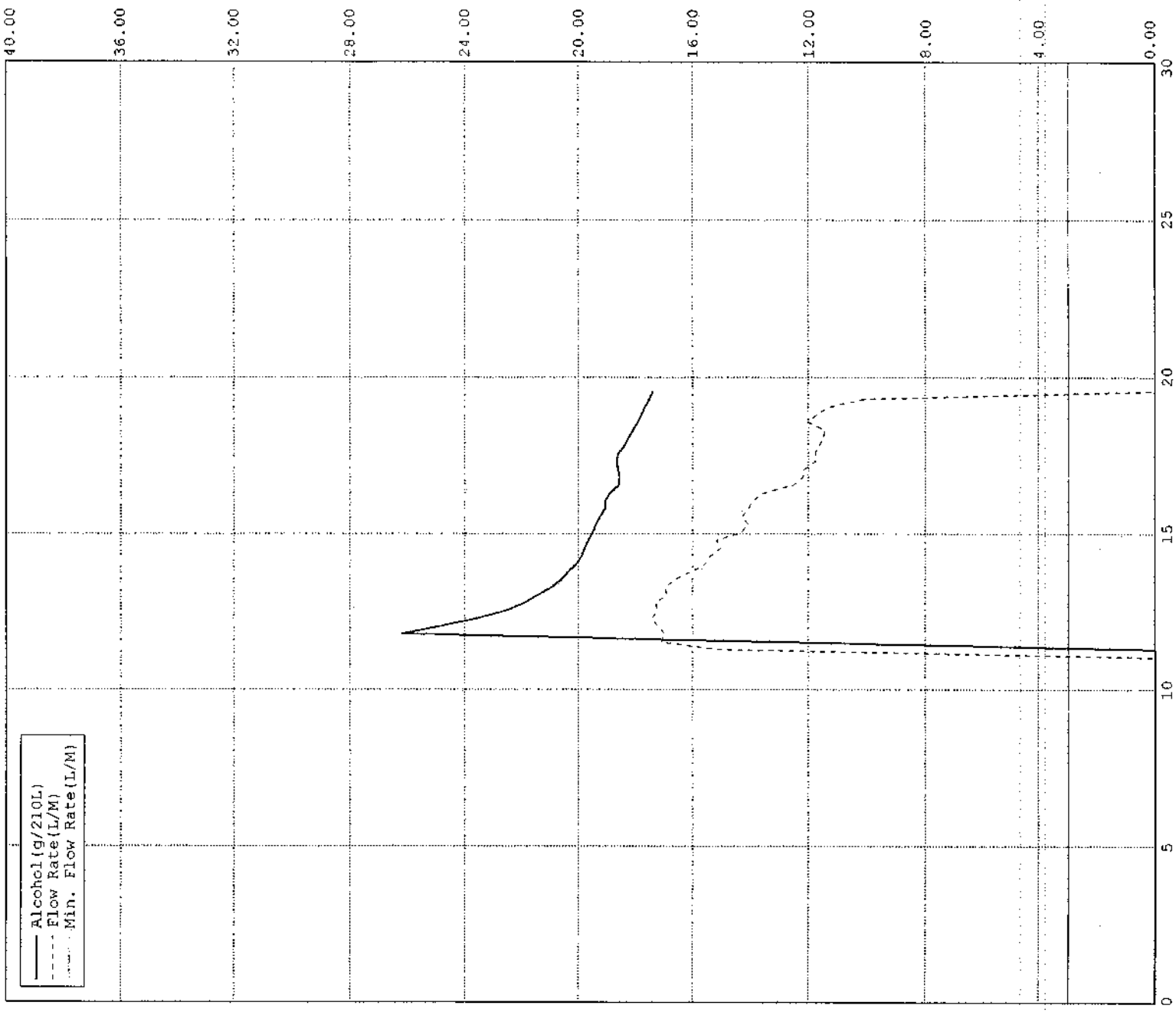
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.27: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 13:43
BLANK TEST 0.000 13:43
INTERNAL STANDARD VERIFIED 13:43
EXTERNAL STANDARD 0.077 13:44
BLANK TEST 0.000 13:45
SUBJECT SAMPLE INVALID 13:45



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 02/26/2020
Time: 13:50:17

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

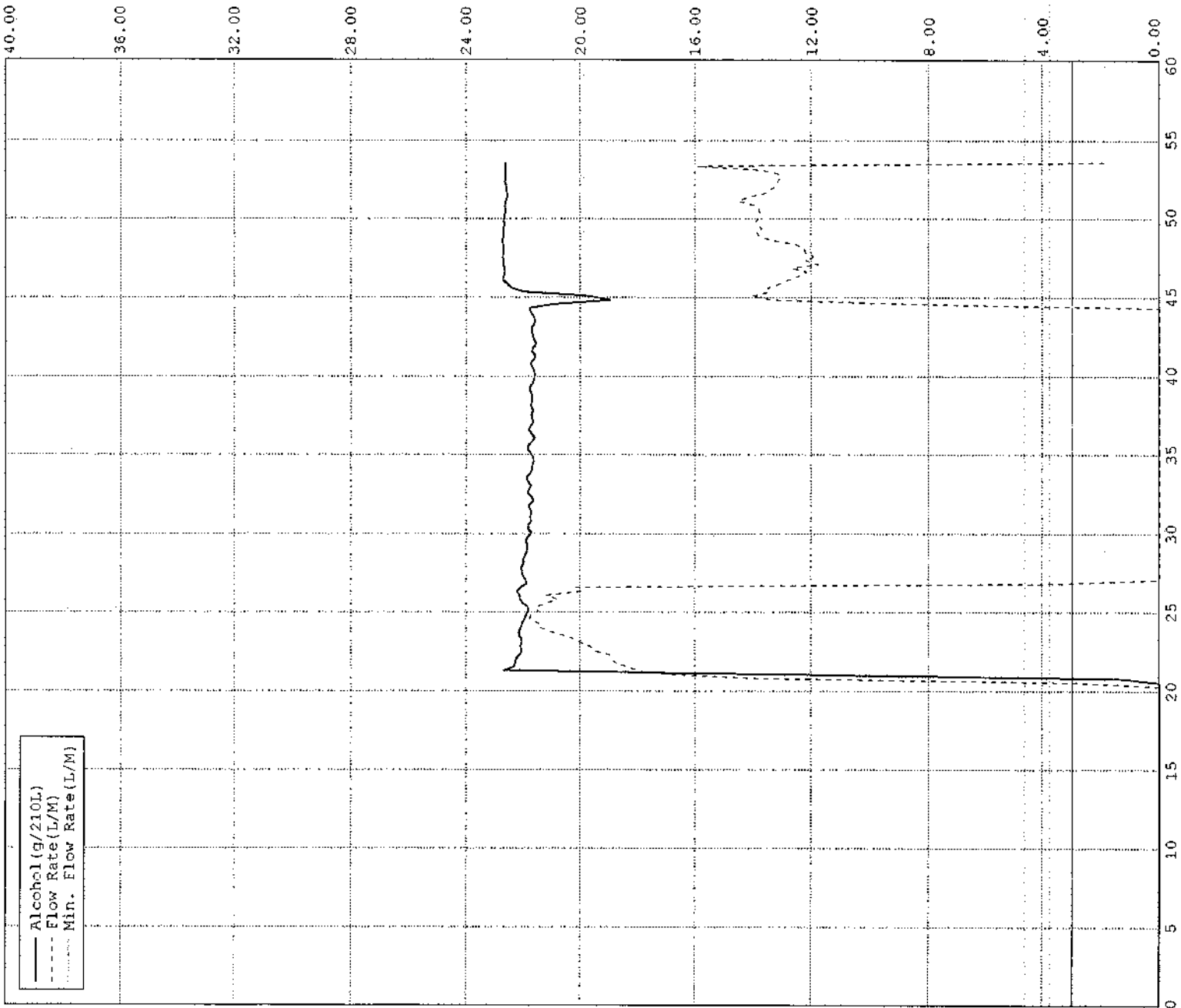
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.27: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	13:51
BLANK TEST	0.000	13:51
INTERNAL STANDARD	VERIFIED	13:51
Xq = 0.084	(1.13%)	
EXTERNAL STANDARD	0.077	13:51
X[1] = 0.0771	(0.0010)	(0.0028)
BLANK TEST	0.000	13:52
SUBJECT SAMPLE	XXX	13:53
X[1] = 0.1127	(-0.0157)	(0.0028)

Interference Detected

Filter 2 avg = 0.0012

Filter 3 avg = 0.0029



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 02/26/2020
Time: 14:01:50

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

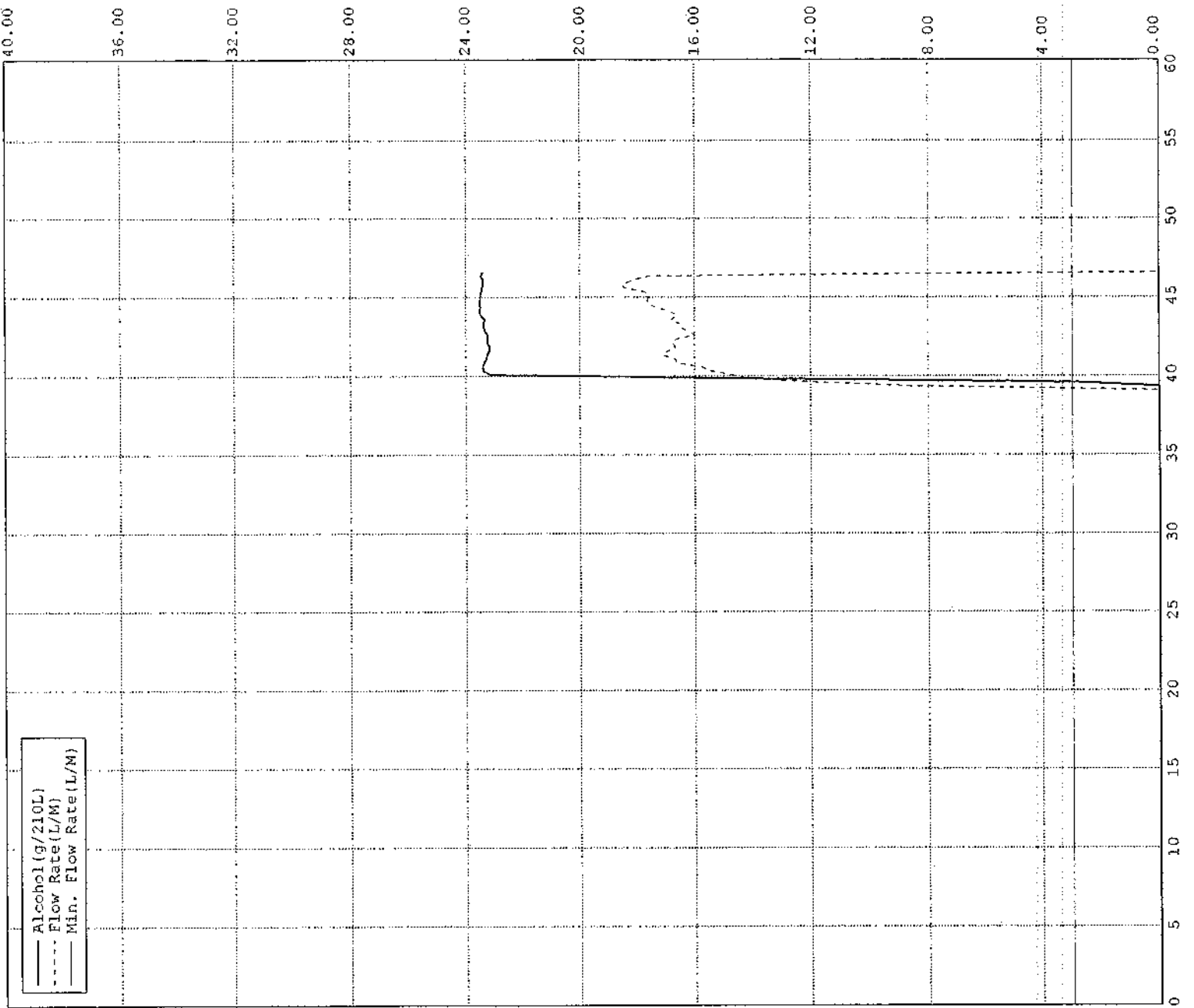
DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

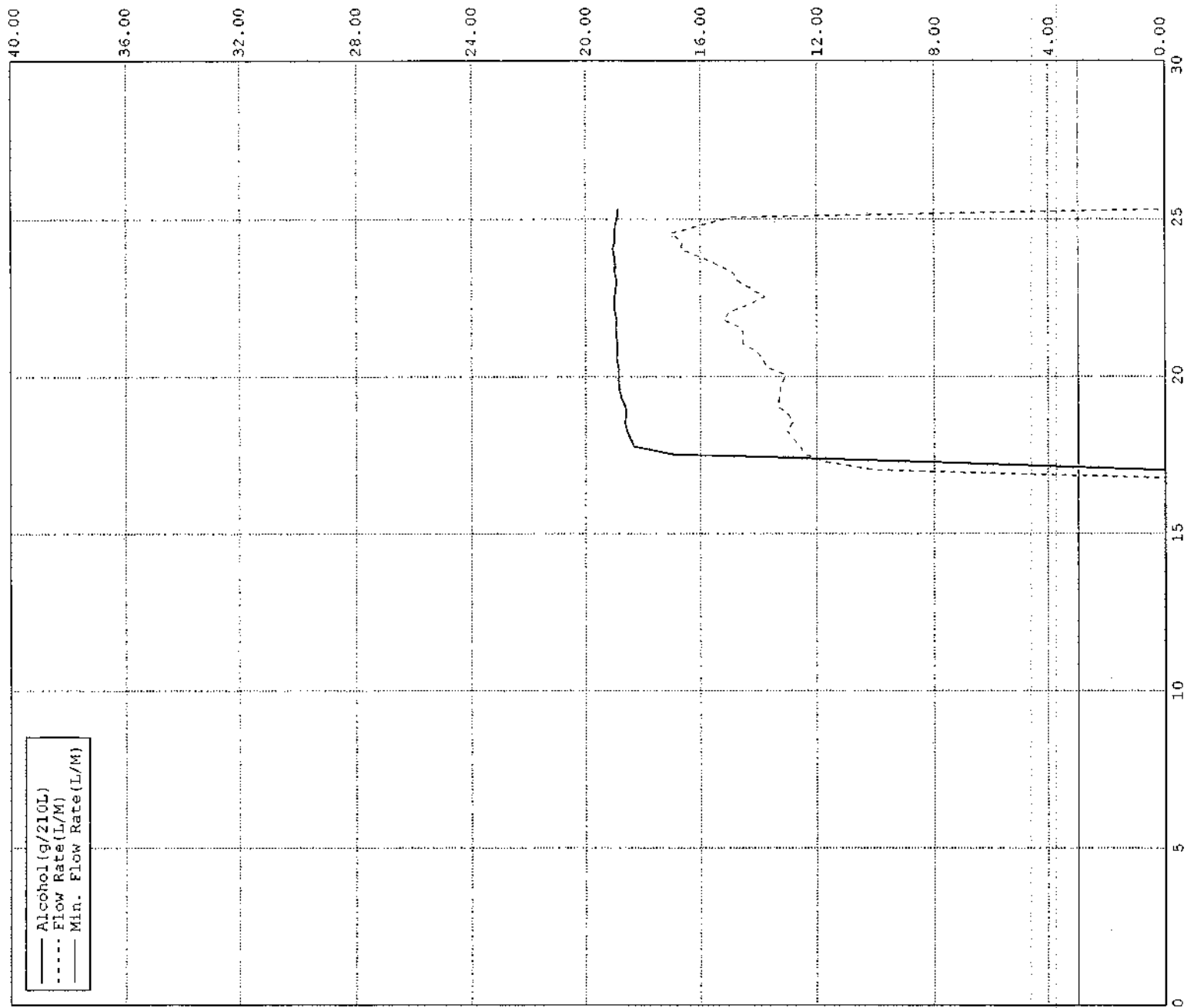
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.27: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	14:02
BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:03
Xq = 0.084 (1.03%)		
EXTERNAL STANDARD	0.077	14:03
X[1] = 0.0768 (0.0016)	(0.0032)	
BLANK TEST	0.000	14:04
SUBJECT SAMPLE	XXX	14:05
X[1] = 0.1163 (-0.0302)	(0.0008)	

Interference Detected





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100675

 Date: 02/26/2020
 Time: 14:20:07

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEG

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.28: 0.078
 LOT #: AG826101
 EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	14:21
BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:21
$X_q = 0.084$ (1.03%)		
EXTERNAL STANDARD	0.077	14:21
$X[1] = 0.073$ (0.0016) (0.0032)		
BLANK TEST	0.000	14:22
SUBJECT SAMPLE (Vol=1.94L)	0.094	14:23
$X[1] = 0.0944$ (-0.0002) (0.0020)		
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.077	14:24
$X[1] = 0.0766$ (0.0006) (0.0024)		
BLANK TEST	0.000	14:25

SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100675

 Date: 02/27/2020
 Time: 08:33:51

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

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

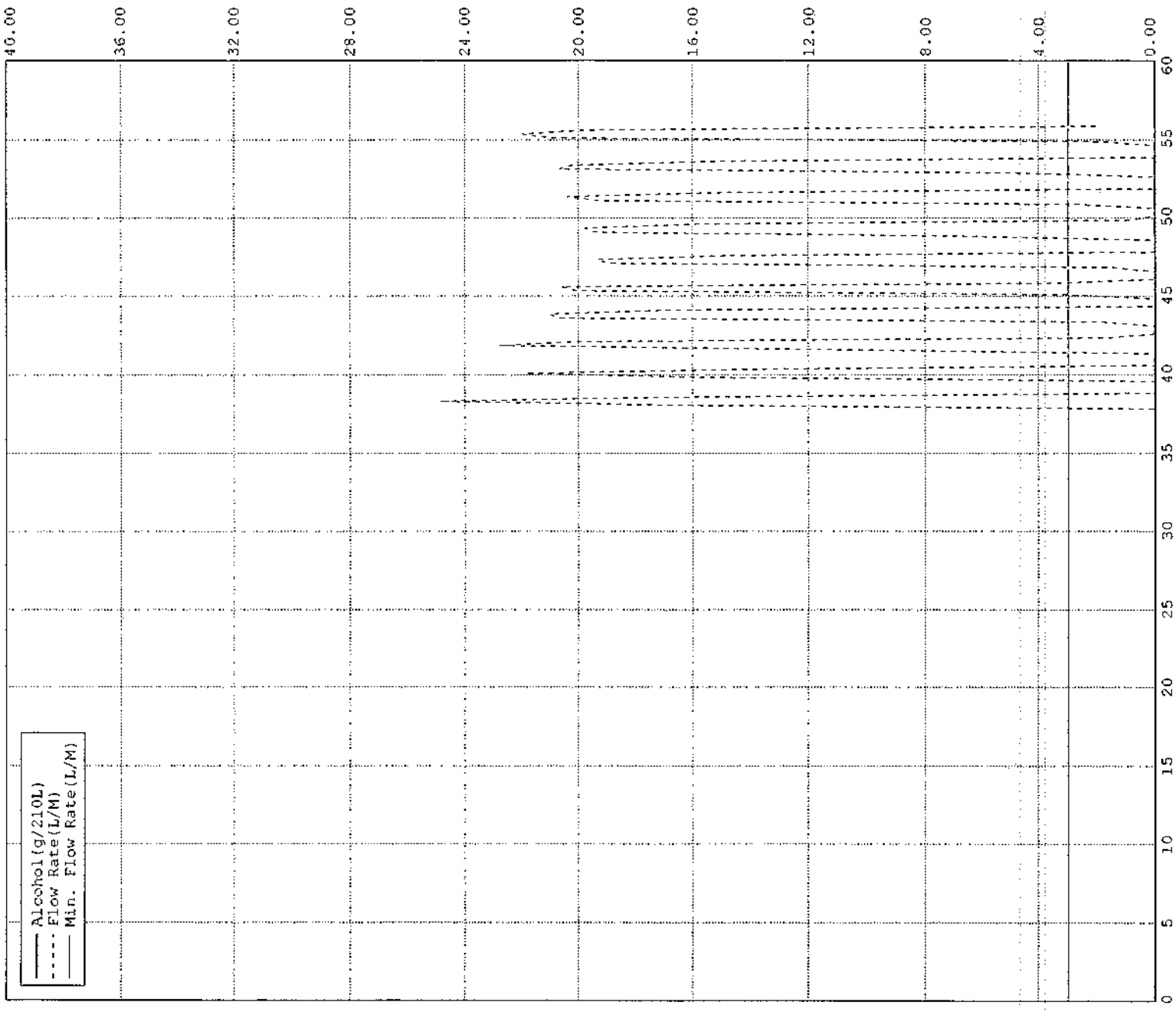
DEPT/AGENCY:
 AAA1

CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.33: 0.078
 LOT #: AG826101
 EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	08:34
BLANK TEST	0.000	08:34
INTERNAL STANDARD	VERIFIED	08:35
EXTERNAL STANDARD	0.078	08:35
BLANK TEST	0.000	08:36
SUBJECT SAMPLE	XXX	08:37

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 02/27/2020
Time: 08:39:42

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

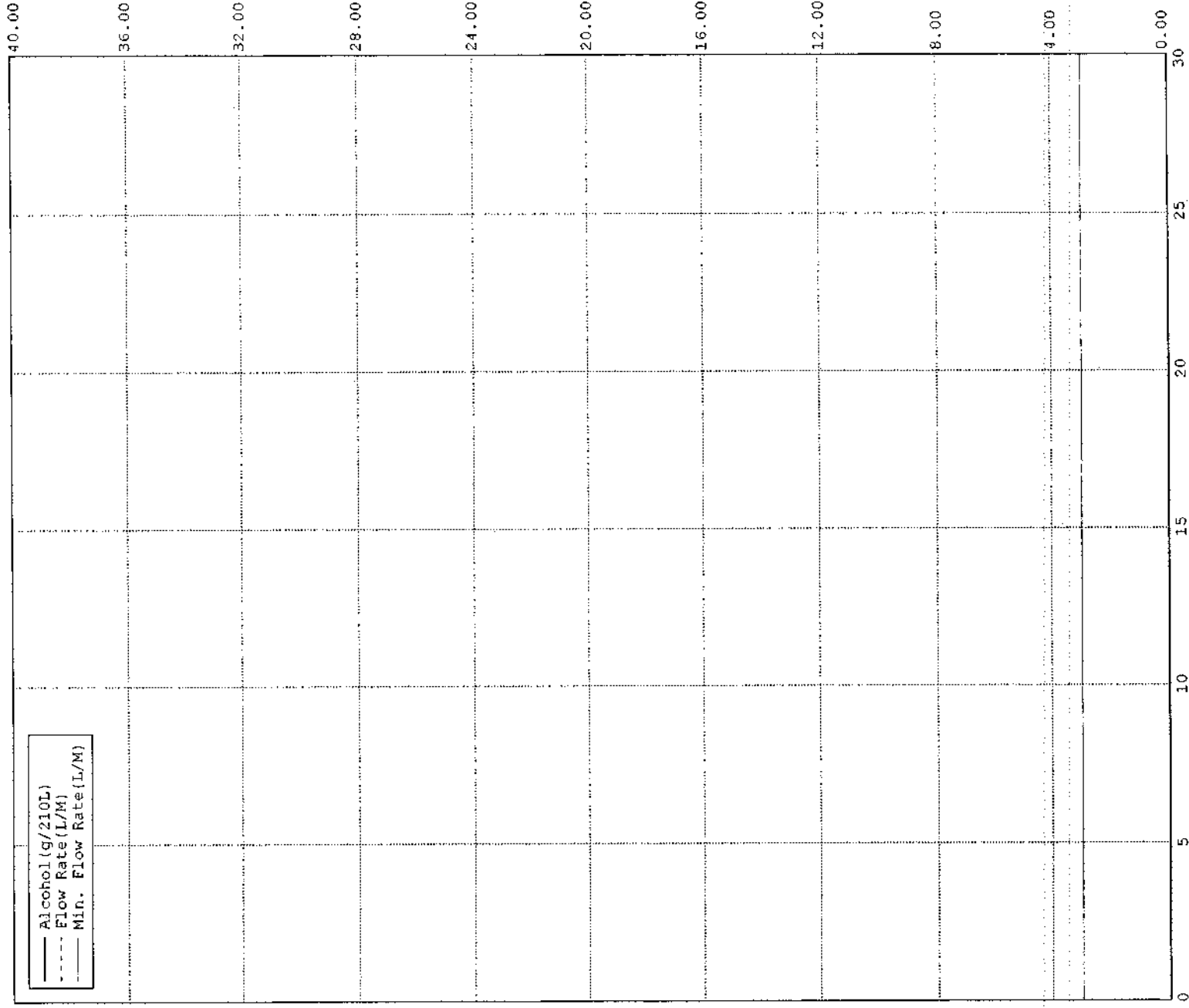
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.32: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 08:46
BLANK TEST 0.000 08:47
INTERNAL STANDARD VERIFIED 08:47
EXTERNAL STANDARD 0.077 08:47
BLANK TEST 0.000 08:48

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER cmt: 100675

Date: 02/27/2020
Time: 09:30:14

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.34: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	09:31
BLANK TEST	0.000	09:31
INTERNAL STANDARD	VERIFIED	09:31
EXTERNAL STANDARD	0.078	09:31
BLANK TEST	0.000	09:32
SUBJECT SAMPLE (Vol=2.10L)	0.000	09:33
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.078	09:34
BLANK TEST	0.000	09:35

