

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 100678 Analyst Brandi Burnett Start Date 12/12/18

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 Airgas Lot AG805804 Exp 2/27/20

ii. 0.040g/210L Mnf Airgas Lot AG733403 Exp 11/30/19

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

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

v. 0.200g/210L Mnf Guth Lot 17340 Exp 10/9/19

1. Simulator S/N DR5298 Date Calibrated 1/24/18

vi. 0.300g/210L Mnf Guth Lot 17350 Exp 10/11/19

1. Simulator S/N SD1198 Date Calibrated 1/23/18

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 18070 Level 0.100 Exp 02/26/20

1. Simulator S/N SD1177 Date Calibrated 1/24/18

ii. Isopropanol - Mnf Guth Lot 18070 Level 0.100 Exp 02/26/20

1. Simulator S/N SD1199 Date Calibrated 01/24/18

iii. Negative Control - Mnf Guth Lot 18070 Level 0.100 Exp 02/26/20

1. Simulator S/N SD1088 Date Calibrated 01/24/18

e. RFI

6. Verify stylus is calibrated

7. Reset Options

8. Clear Memory

9. Verification of Calibration

10. Non-Drinking Subject Test (attached)

11. Upload

13. Remove tank prior to shut down

End Date 12/13/18

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 12/12/2018
Time: 09:21:07

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.58 V PASSED
(0.98 V - 2.28 V)
Cooler Voltage = 1.55 V PASSED
(0.99 V - 2.31 V)
Bias Voltage = 80 V PASSED
(47 V - 111 V)
Chopper Freq = 534 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 28.9 in

PUMP INFO

Flow Rate = 4.679 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

Xq = 0.084 2.12% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100678

Date: 12/12/2018
Time: 9:40 AM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 48.0°C

Current Barometer 28.9 in
Volume (Ltr) 1.57

Settings

Lamp: 1.63 V
Bias: 80 V
Cooler: 1.58 V
Chopper: 533 Hz

Voltages (V)

Flow: 1.07 V
Detector: 0.033 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 10/26/2011
Time: 06:16:45

Ca = 0.1000
CAL = 0.980683 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0025 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0821 0.0500 <= Xq < 0.2000
a21 = 1.104995 1.050 <= a21 < 1.300
a31 = 0.461169 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 12/12/2018
Time: 09:41:49

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

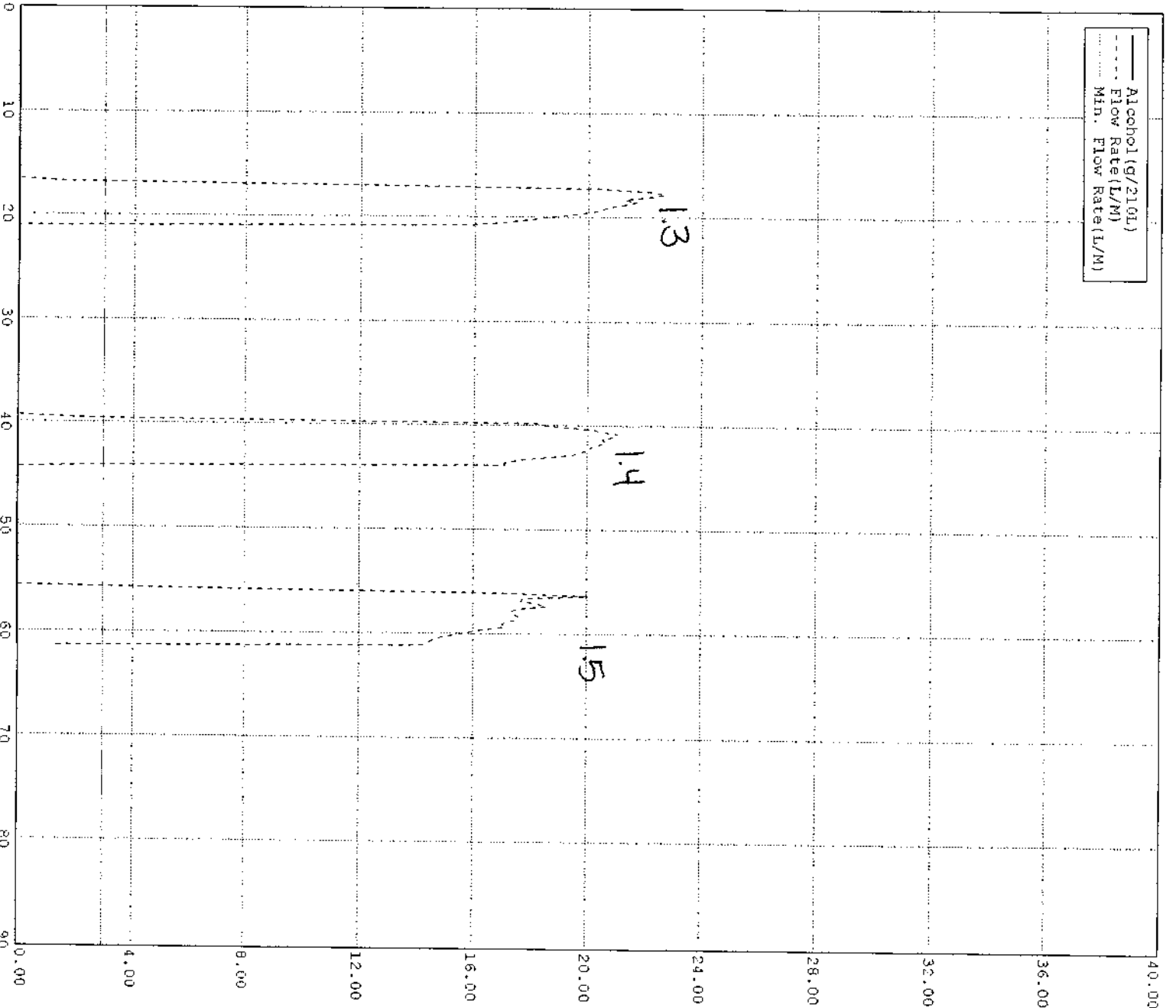
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
MINIMUM VOLUME
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.87: 0.077
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	09:43
BLANK TEST	0.000	09:43
INTERNAL STANDARD	VERIFIED	09:43
EXTERNAL STANDARD	0.077	09:43
BLANK TEST	0.000	09:44
SUBJECT SAMPLE (Vol=1.51L)	0.000	09:45
BLANK TEST	0.000	09:46
EXTERNAL STANDARD	0.077	09:46
BLANK TEST	0.000	09:47

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LINEARITY CHECK

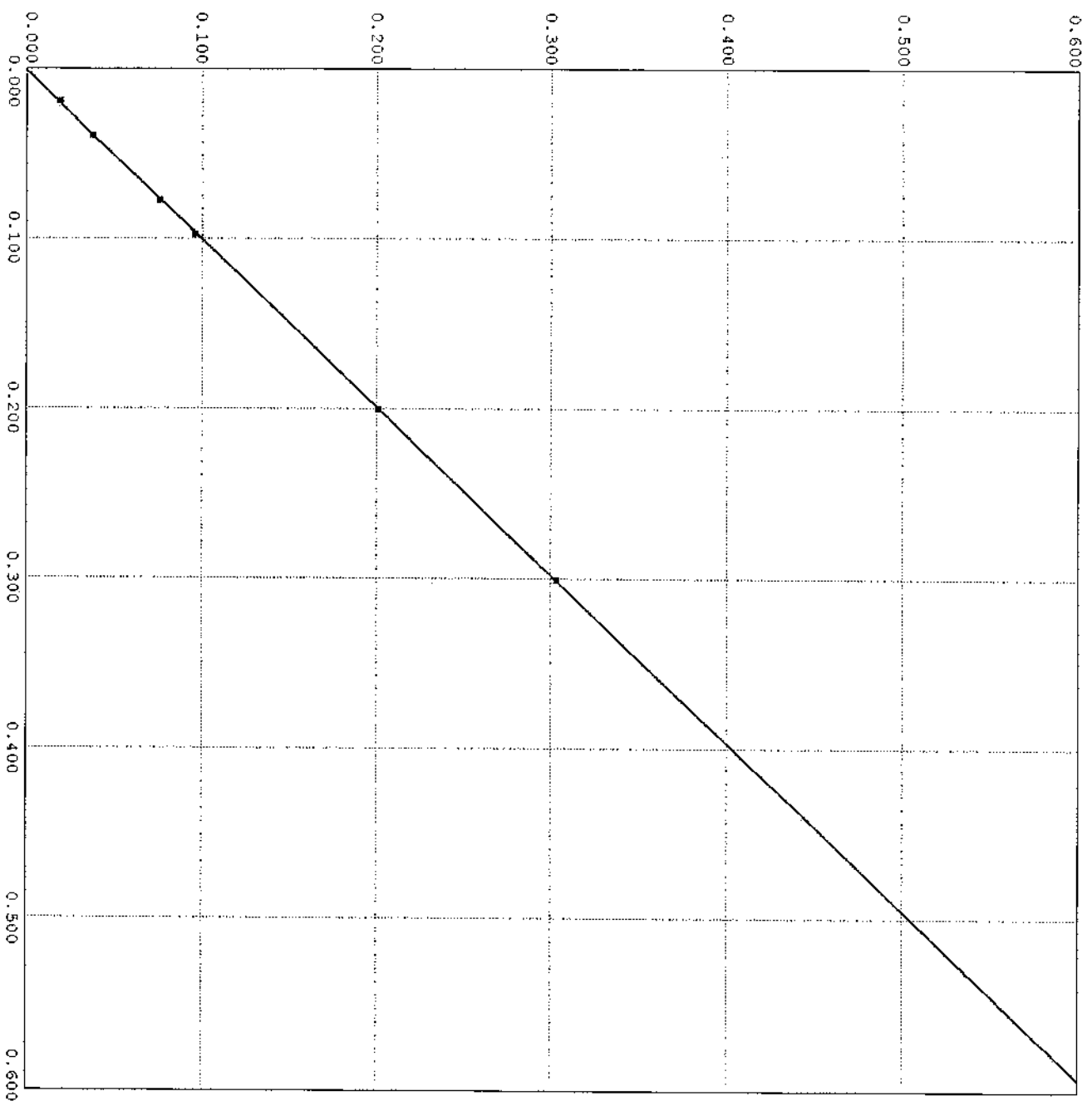
Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 12/12/2018
Time: 12:49:00

SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0198	0.0004
0.039	0.0388	0.0004
0.077	0.0770	0.0000
0.097	0.0970	0.0000
0.200	0.2016	0.0005
0.300	0.3040	0.0007

SLOPE = 1.013312
R² = 0.999957



BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

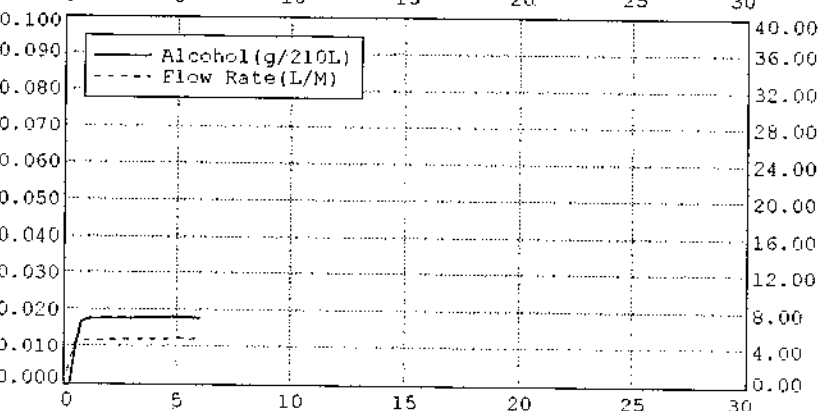
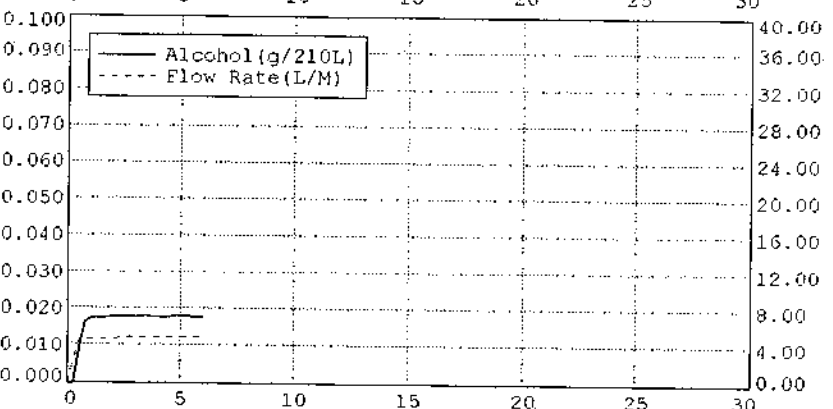
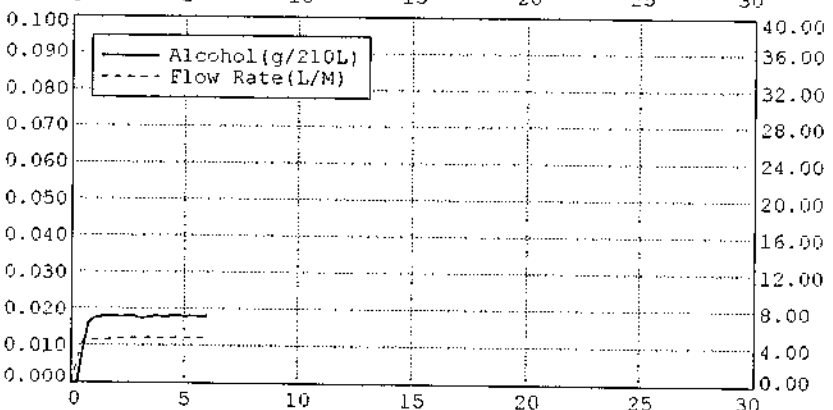
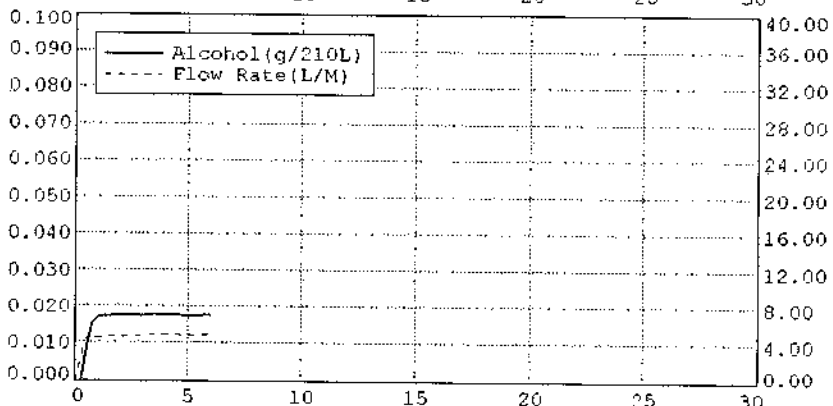
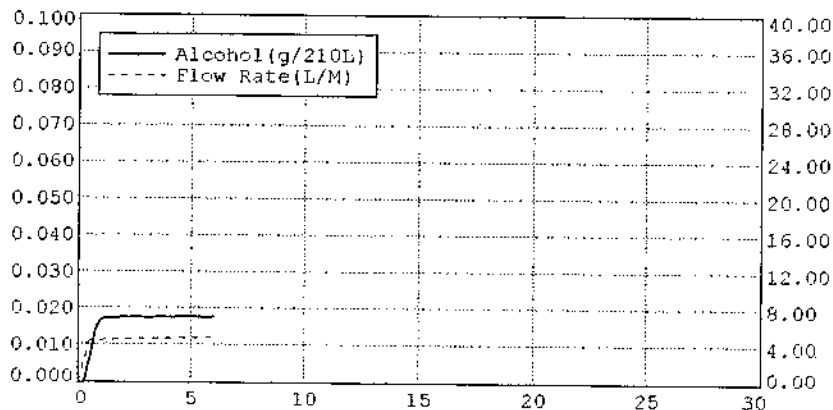
Date: 12/12/2018
 Time: 12:49:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 28.91: 0.019
 LOT #: AG805804
 EXPIRATION: 02/27/2020
 TANK PRESSURE: 870 psi

BLANK TEST	0.000	12:58
INTERNAL STANDARD	VERIFIED	12:59
EXTERNAL STANDARD	0.020	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.019	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.020	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.020	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.020	13:03
BLANK TEST	0.000	13:04

Average = 0.0198
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dnt: 100678

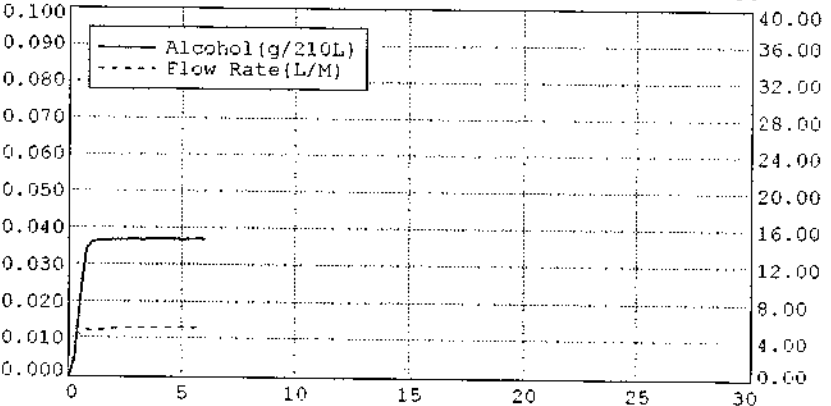
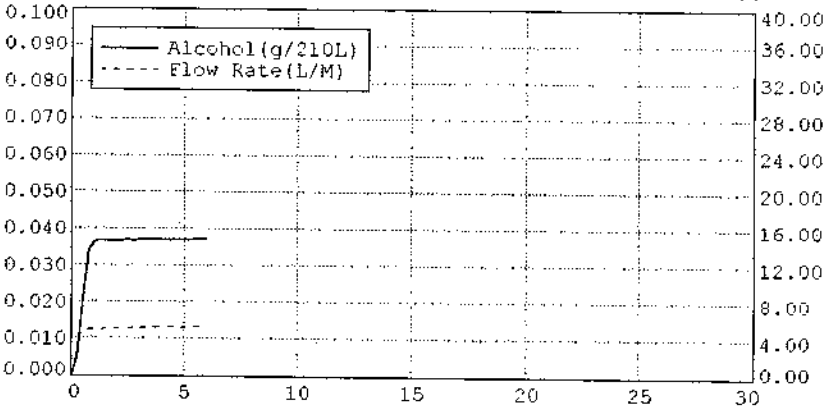
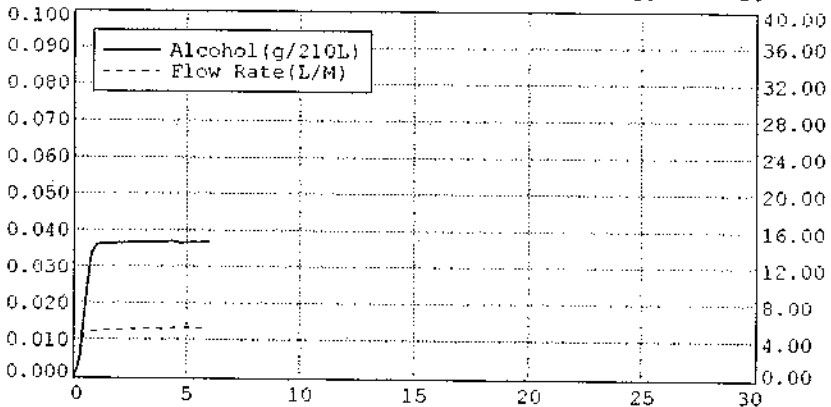
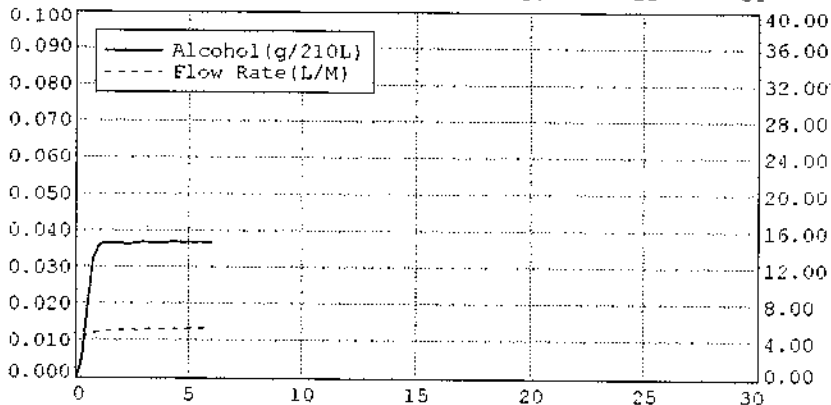
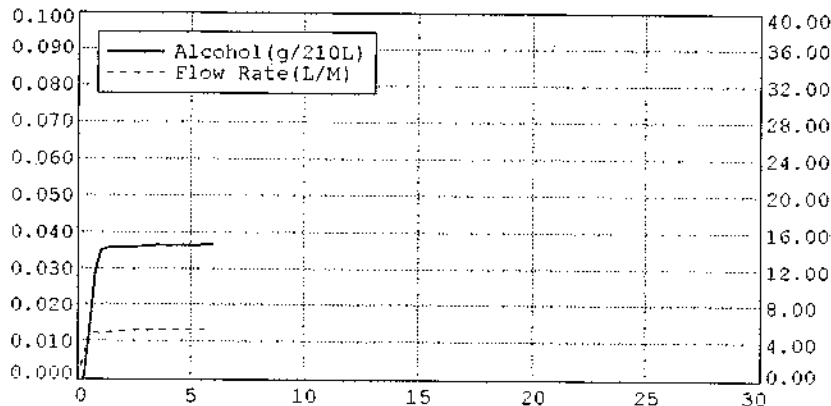
Date: 12/12/2018
 Time: 13:08:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 28.92: 0.039
 LOT #: AG733403
 EXPIRATION: 11/30/2019
 TANK PRESSURE: 1057 psi

BLANK TEST	0.000	13:11
INTERNAL STANDARD	VERIFIED	13:11
EXTERNAL STANDARD	0.038	13:12
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.039	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.039	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.039	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.039	13:16
BLANK TEST	0.000	13:17

Average = 0.0388
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

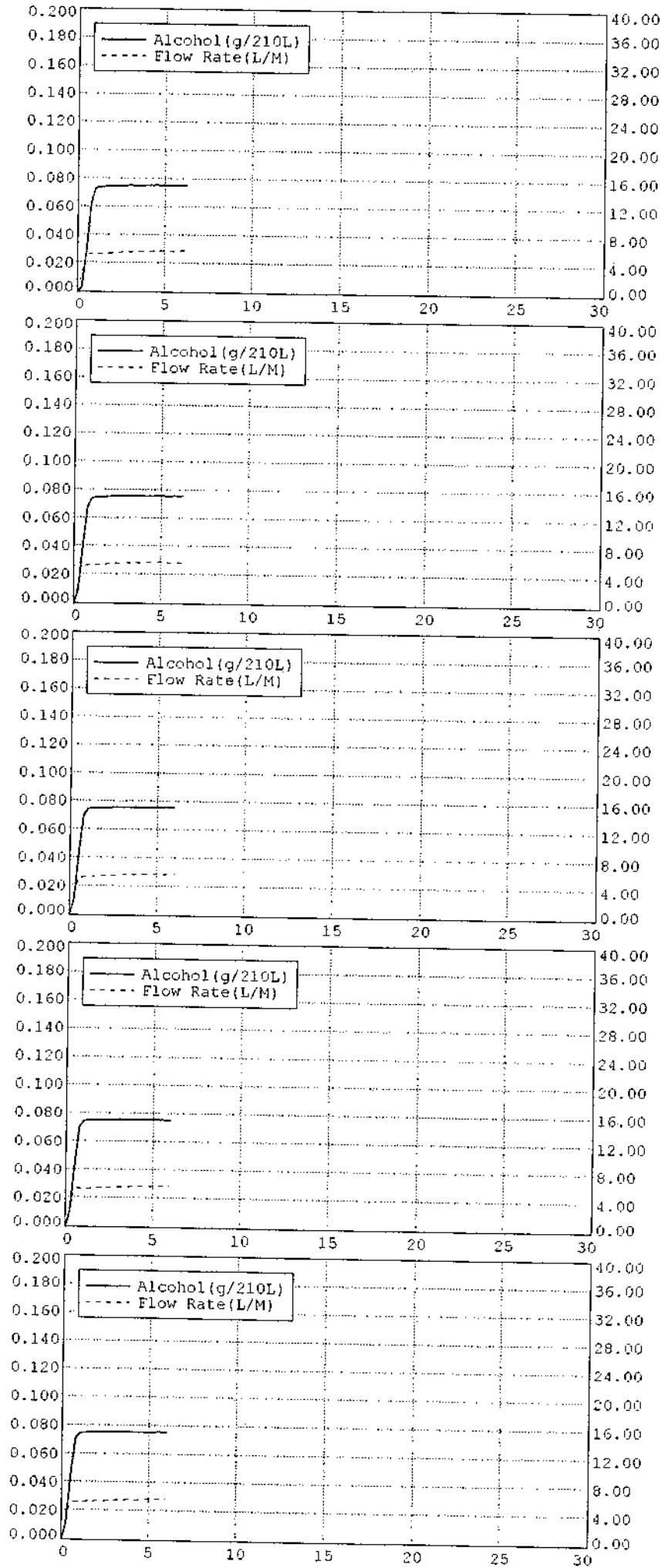
Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 12/12/2018
Time: 13:20:05

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.92: 0.077
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 1163 psi

BLANK TEST	0.000	13:22
INTERNAL STANDARD	VERIFIED	13:22
EXTERNAL STANDARD	0.077	13:23
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.077	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.077	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.077	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.077	13:27
BLANK TEST	0.000	13:28

Average = 0.0770
Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

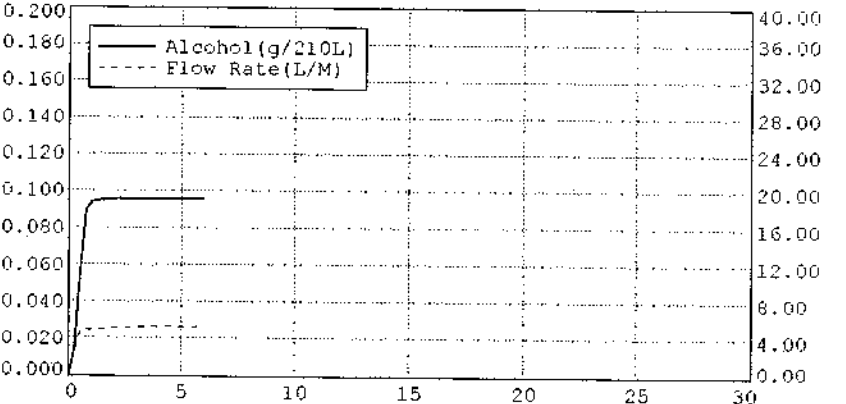
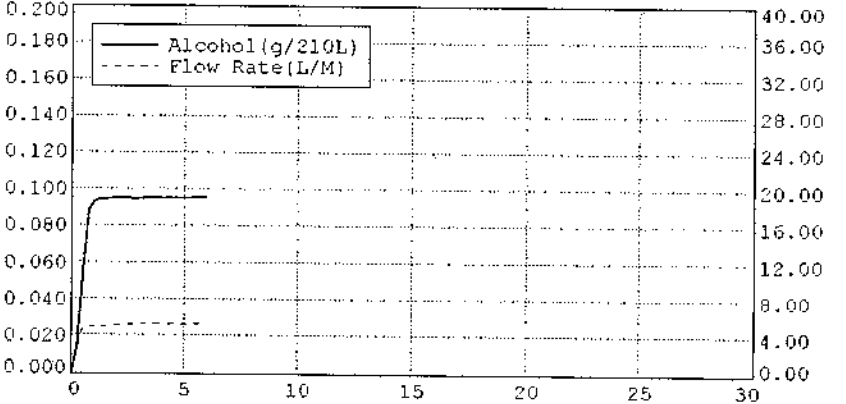
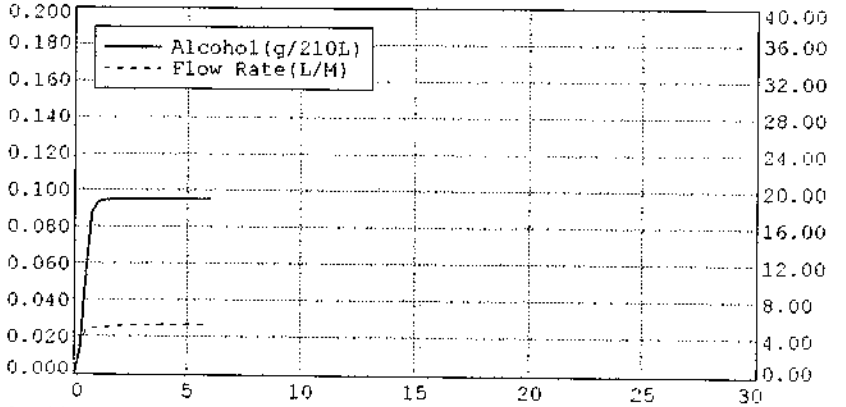
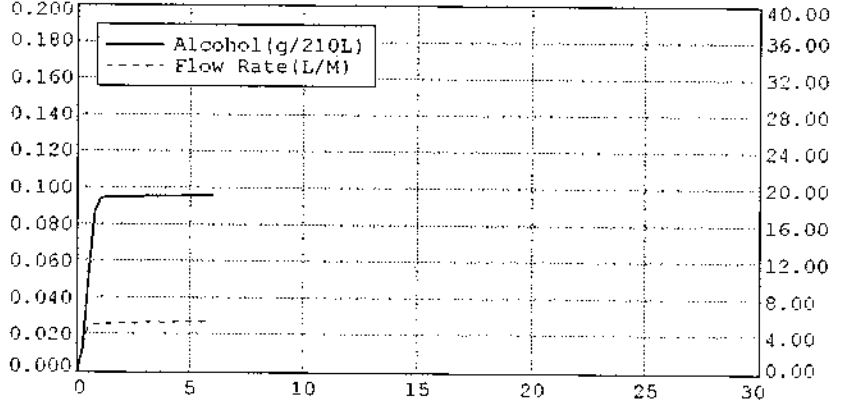
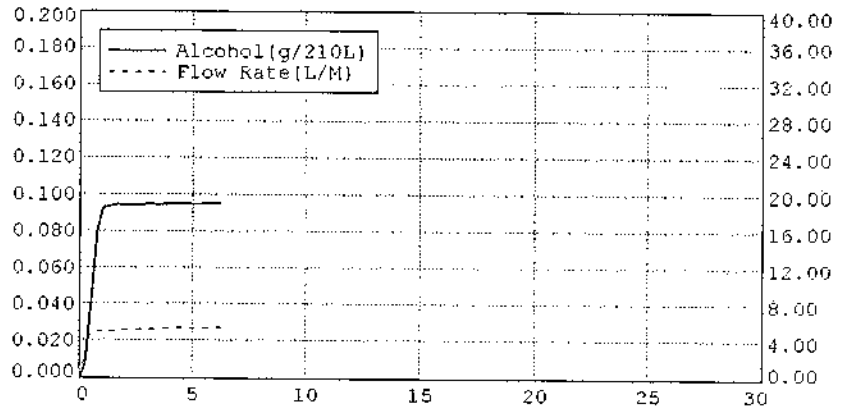
Date: 12/12/2018
 Time: 13:29:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 28.91: 0.097
 LOT #: AG805903
 EXPIRATION: 02/28/2020
 TANK PRESSURE: 1066 psi

BLANK TEST	0.000	13:32
INTERNAL STANDARD	VERIFIED	13:32
EXTERNAL STANDARD	0.097	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.097	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.097	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.097	13:36
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.097	13:37
BLANK TEST	0.000	13:38

Average = 0.0970
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

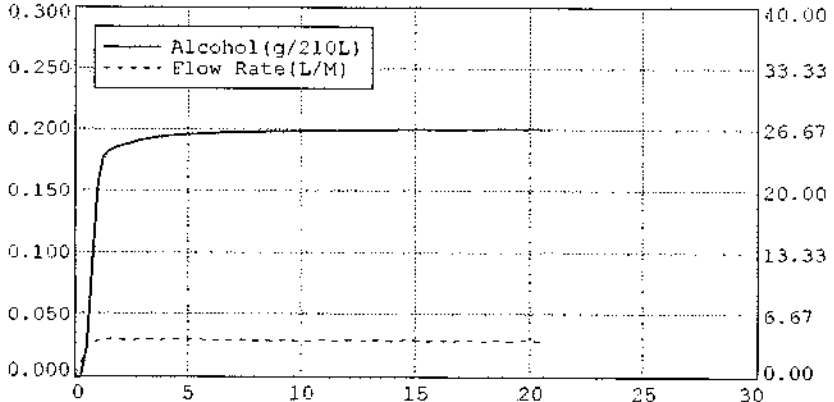
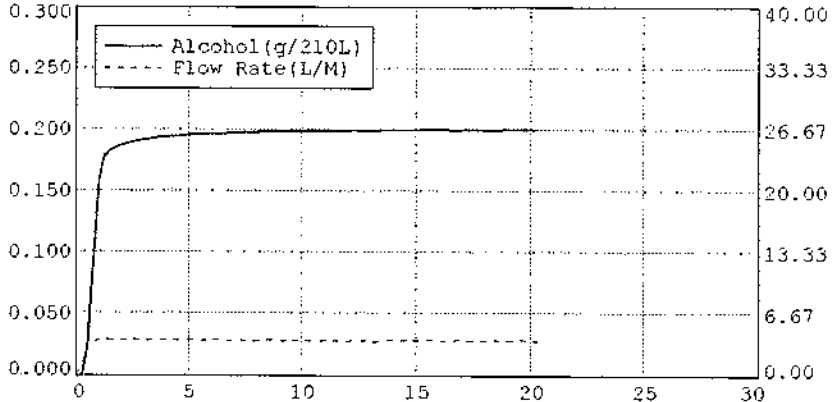
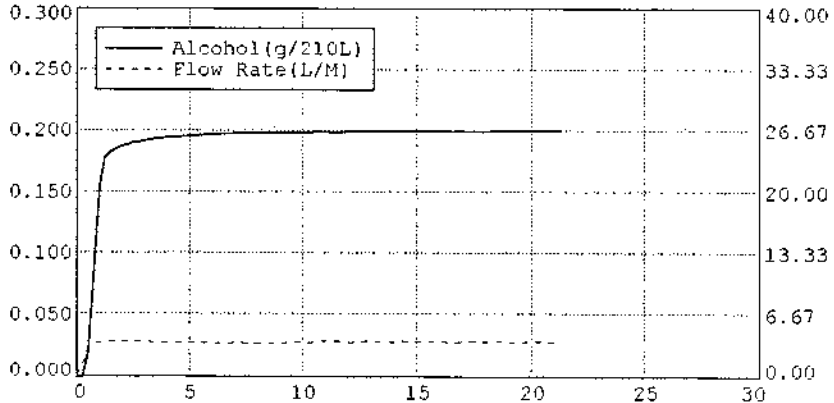
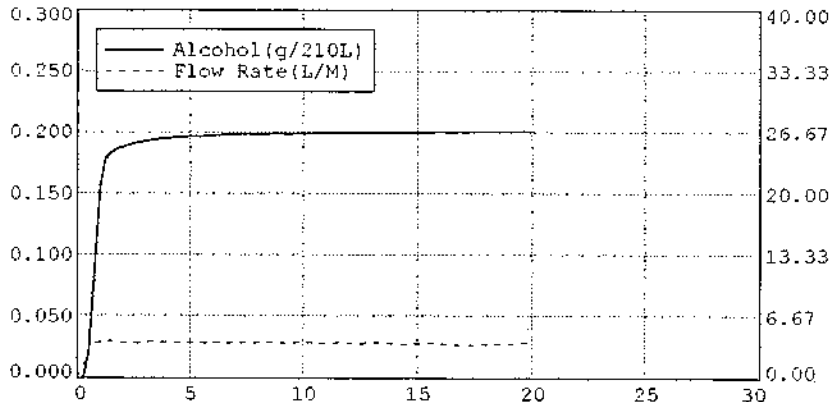
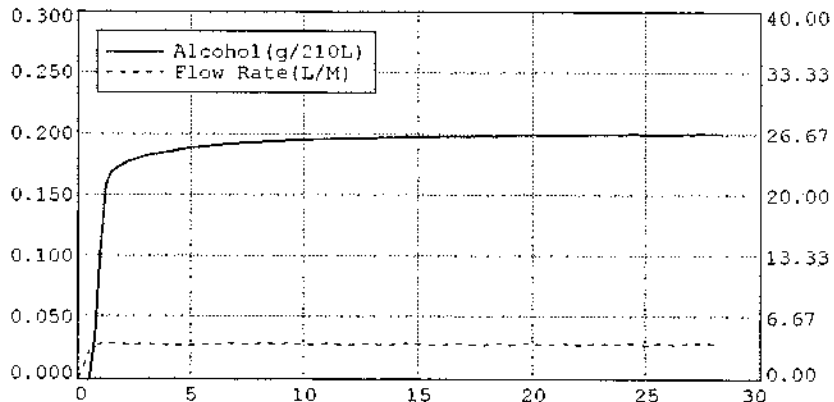
Alaska Department of Public Safety
 DATAMASTER dmt: 100678

Date: 12/12/2018
 Time: 13:46:55

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: GUTH 17340
 EXPIRATION: 10/09/2019

BLANK TEST	0.000	13:48
INTERNAL STANDARD	VERIFIED	13:49
EXTERNAL STANDARD	0.202	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.202	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.201	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.201	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.202	13:55
BLANK TEST	0.000	13:55

Average = 0.2016
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

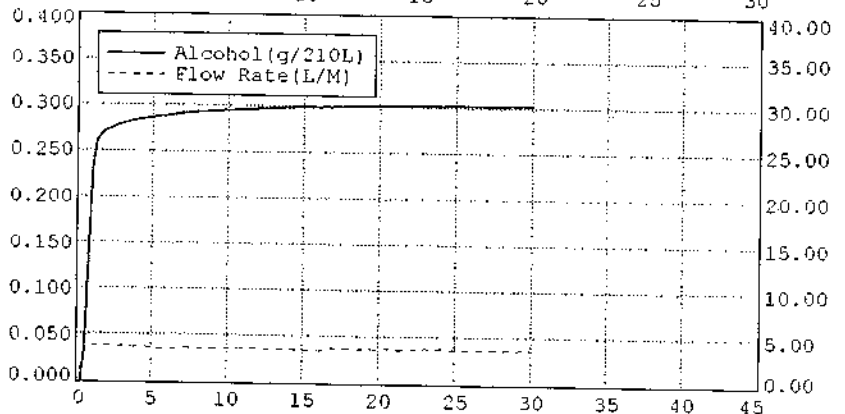
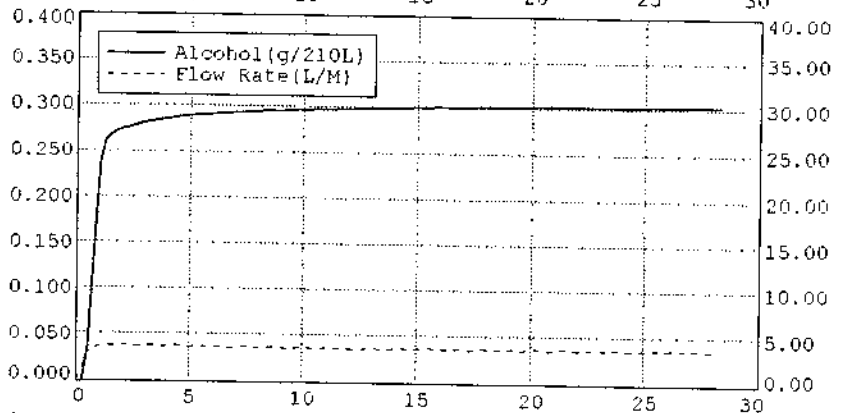
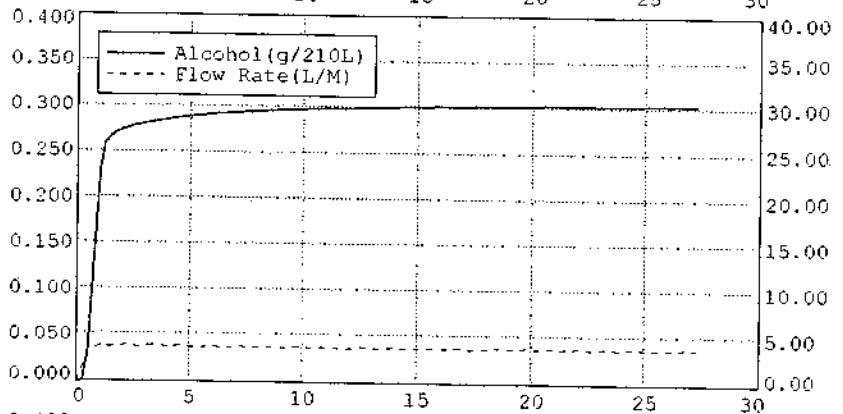
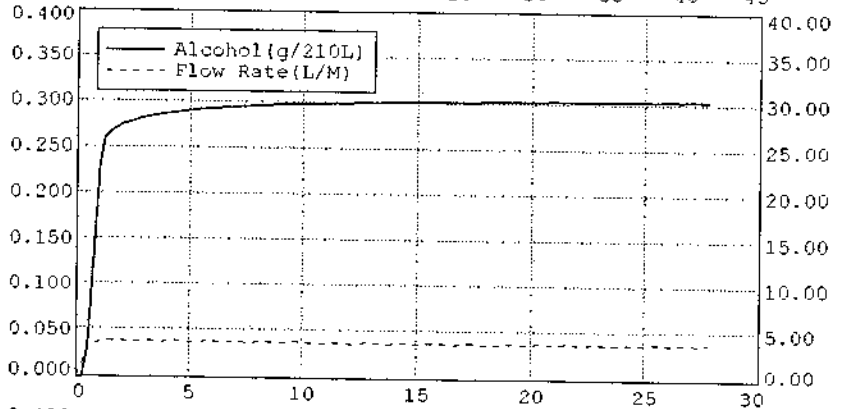
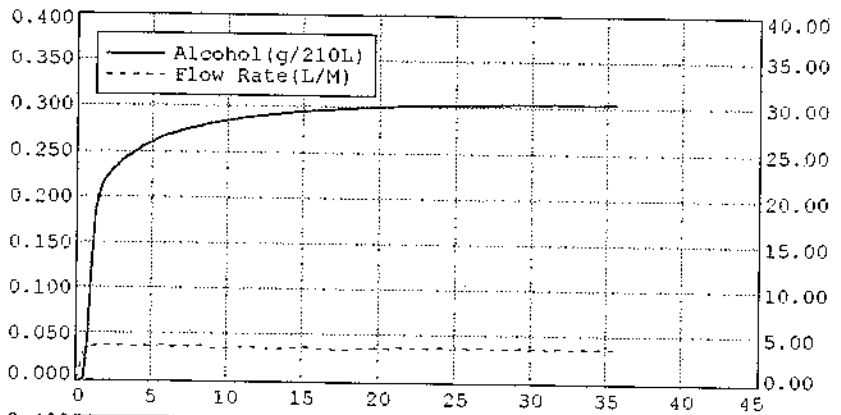
Date: 12/12/2018
 Time: 14:08:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: GUTH 17350
 EXPIRATION: 10/11/2019

BLANK TEST	0.000	14:09
INTERNAL STANDARD	VERIFIED	14:09
EXTERNAL STANDARD	0.305	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.304	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.304	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.304	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.303	14:16
BLANK TEST	0.000	14:17

Average = 0.3040
 Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 12/13/2018
Time: 08:08:28

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

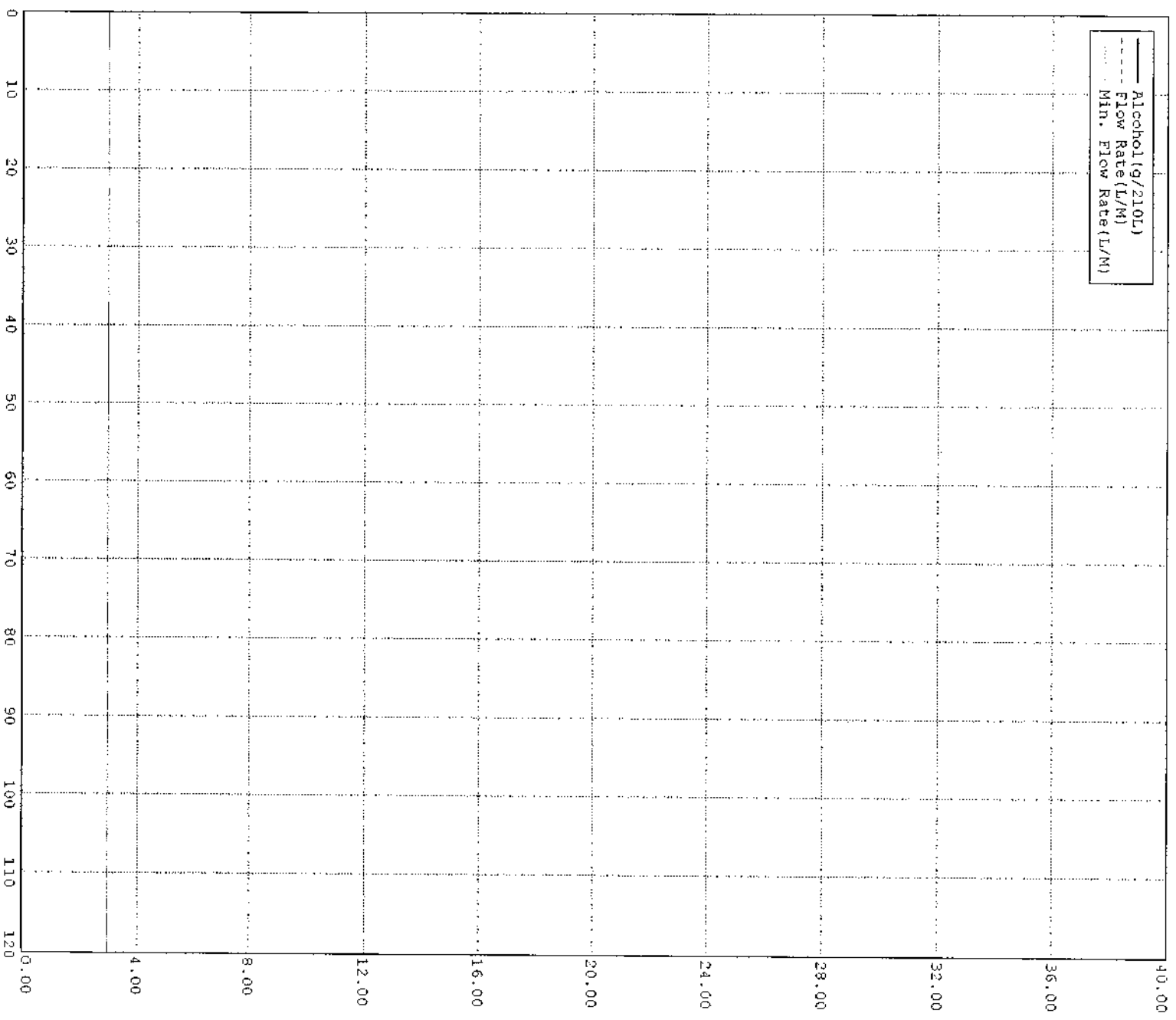
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.03: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	08:10
BLANK TEST	0.000	08:10
INTERNAL STANDARD	VERIFIED 0.078	08:11
EXTERNAL STANDARD	0.078	08:11
BLANK TEST	0.000	08:12
SUBJECT SAMPLE	INCOMPLETE	08:14

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 12/13/2018
Time: 08:16:37

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

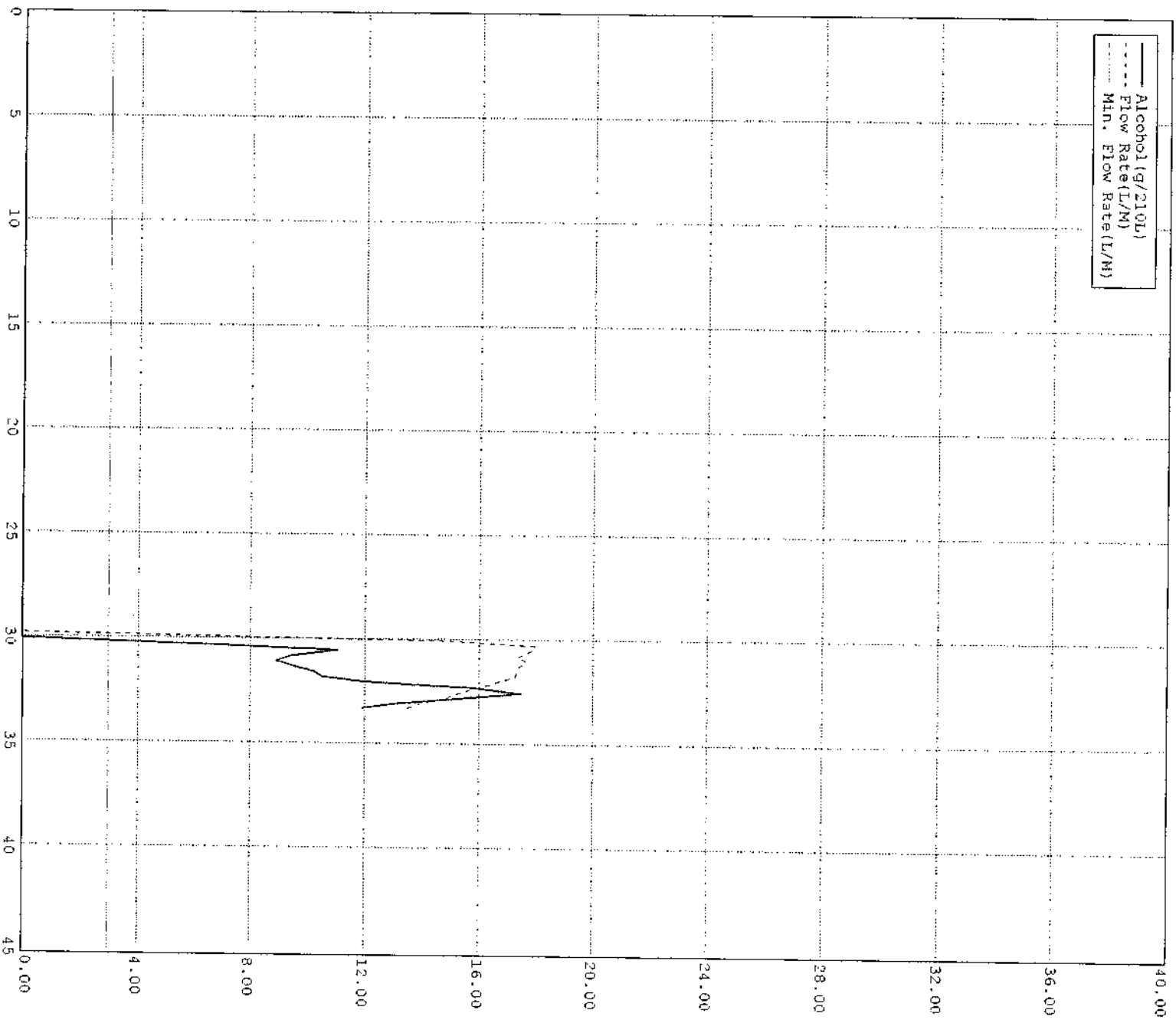
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.03: 0.078
LOF #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	08:18
BLANK TEST	0.000	08:19
INTERNAL STANDARD	VERIFIED	08:19
EXTERNAL STANDARD	0.078	08:19
BLANK TEST	0.000	08:20
SUBJECT SAMPLE	INVALID	08:21

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 12/13/2018
Time: 08:26:42

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.03: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

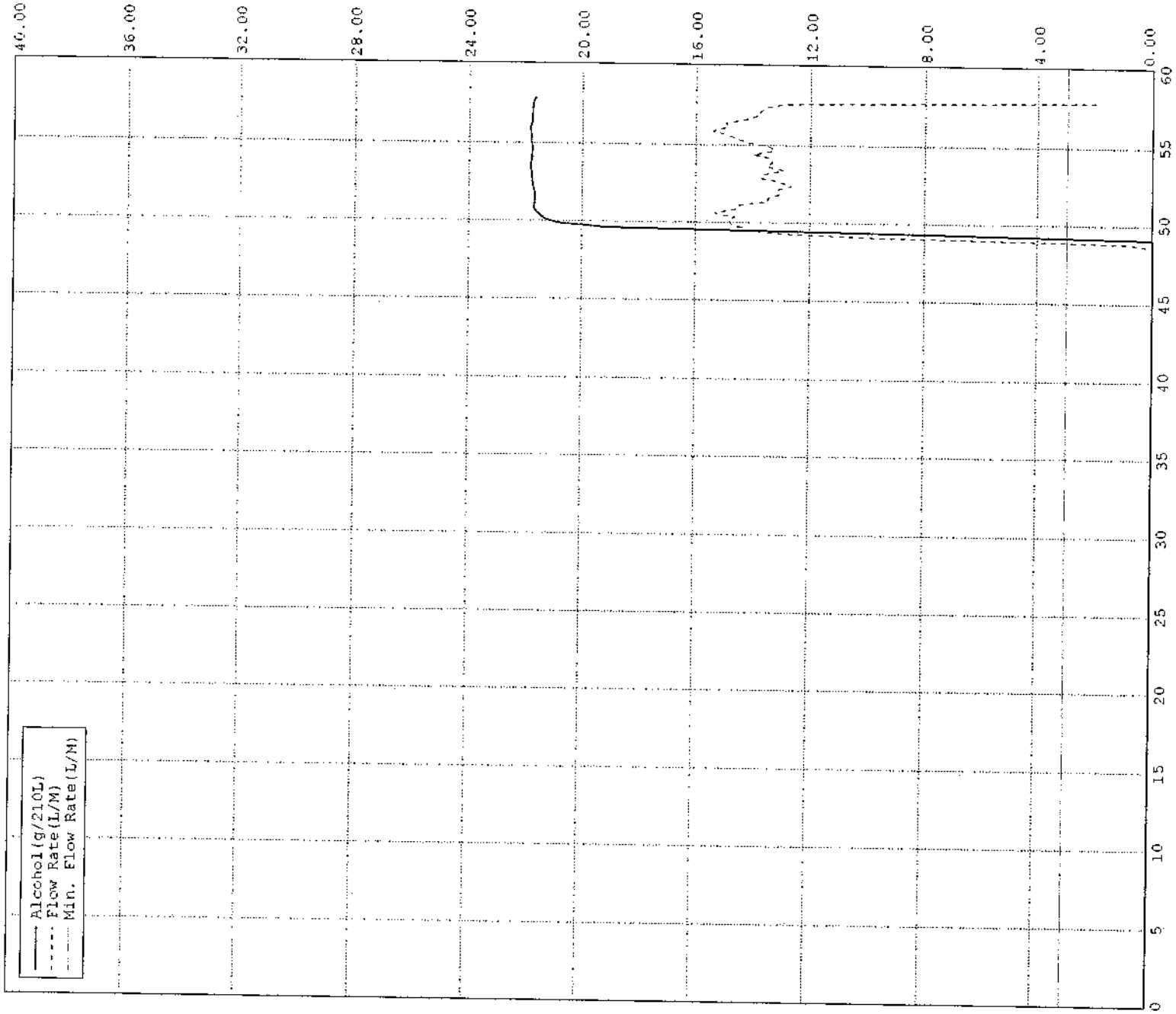
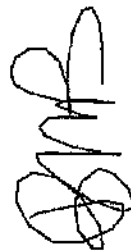
DIAGNOSTIC CHECK PASSED 08:27
BLANK TEST 0.000 08:27
INTERNAL STANDARD VERIFIED 08:28
Xq = 0.083 (1.38%) 0.077 08:28
EXTERNAL STANDARD X[1] = 0.0773 (-0.0008) (0.0019)
BLANK TEST 0.000 08:29
SUBJECT SAMPLE XXX 08:30
X[1] = 0.1095 (-0.0155) (0.0011)

Interference Detected

Filter 2 Avg: -0.0003

Filter 3 Avg: 0.0022

BMB 12/14/18



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 12/13/2018
Time: 08:34:48

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

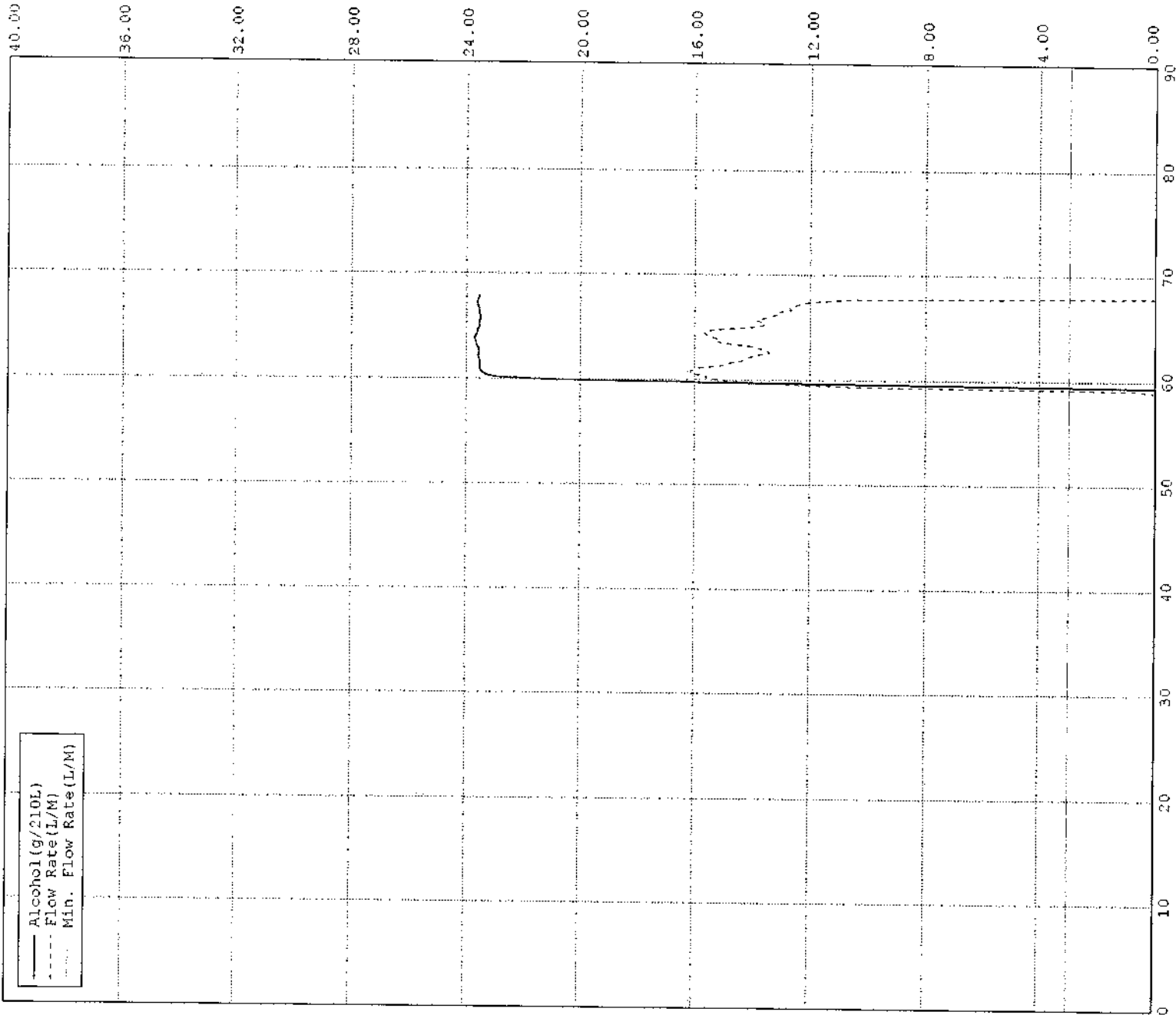
DEPT/AGENCY:
INTERFERENCE ISOPROPANOL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.03: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 08:38
BLANK TEST 0.000 08:38
INTERNAL STANDARD VERIFIED 08:38
Xq = 0.084 (2.12%)
EXTERNAL STANDARD 0.078 08:39
X[1] = 0.0778 (0.0002) (0.0023)
BLANK TEST 0.000 08:39
SUBJECT SAMPLE XXX 08:41
X[1] = 0.1187 (-0.0197) (0.0007)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100678

Date: 12/13/2018
Time: 08:54:25

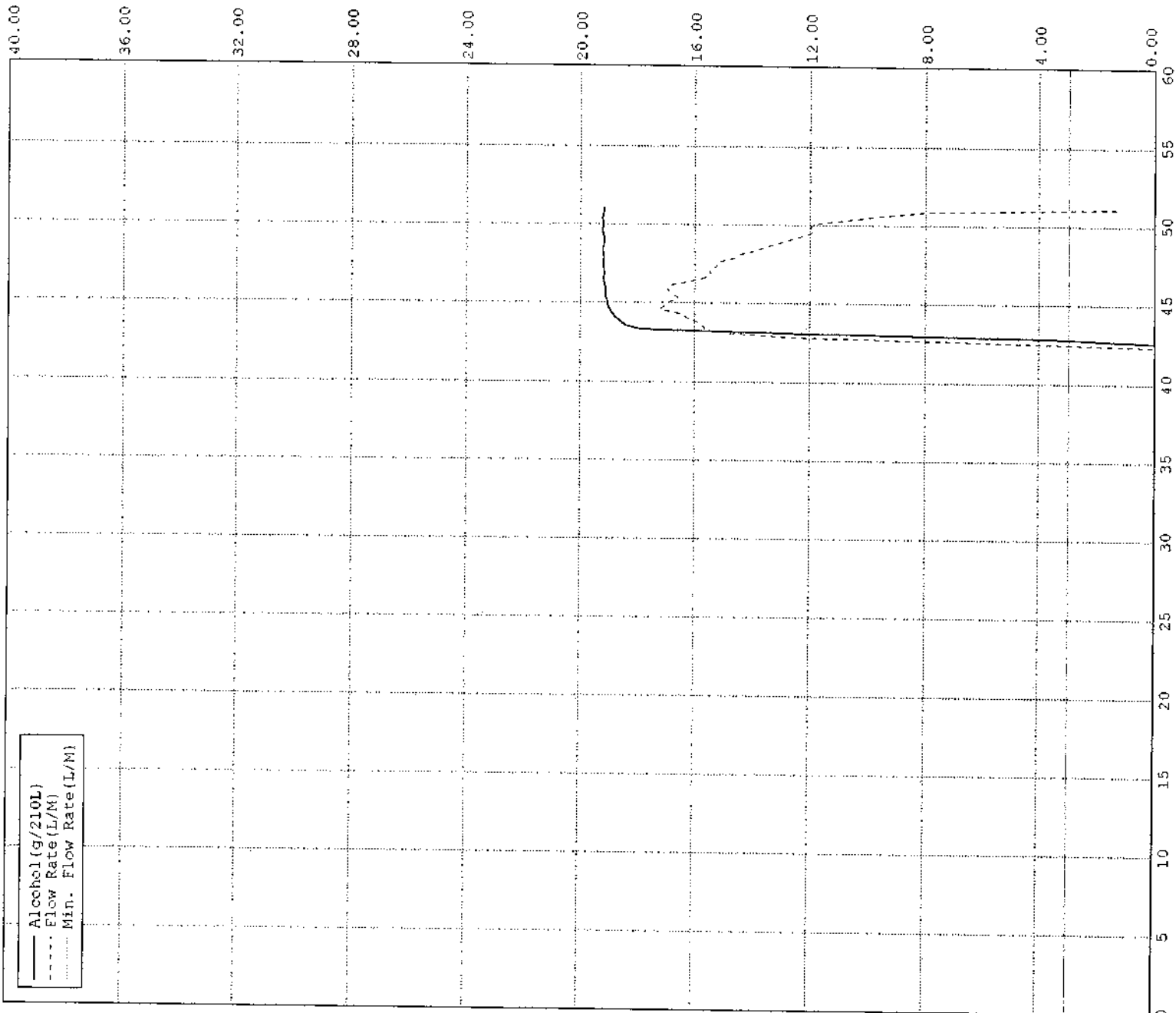
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.03: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	08:56
BLANK TEST	0.000	08:56
INTERNAL STANDARD	VERIFIED	08:56
Xq = 0.083 (1.38%)		
EXTERNAL STANDARD	0.077	08:56
X[1] = 0.0774 (-0.0001) (0.0023)		
BLANK TEST	0.000	08:57
SUBJECT SAMPLE (Vol=2.02L)	0.096	08:58
X[1] = 0.0967 (-0.0009) (0.0007)		
BLANK TEST	0.000	08:59
EXTERNAL STANDARD	0.077	08:59
X[1] = 0.0770 (-0.0005) (0.0023)		
BLANK TEST	0.000	09:00



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 12/13/2018
Time: 09:40:25

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

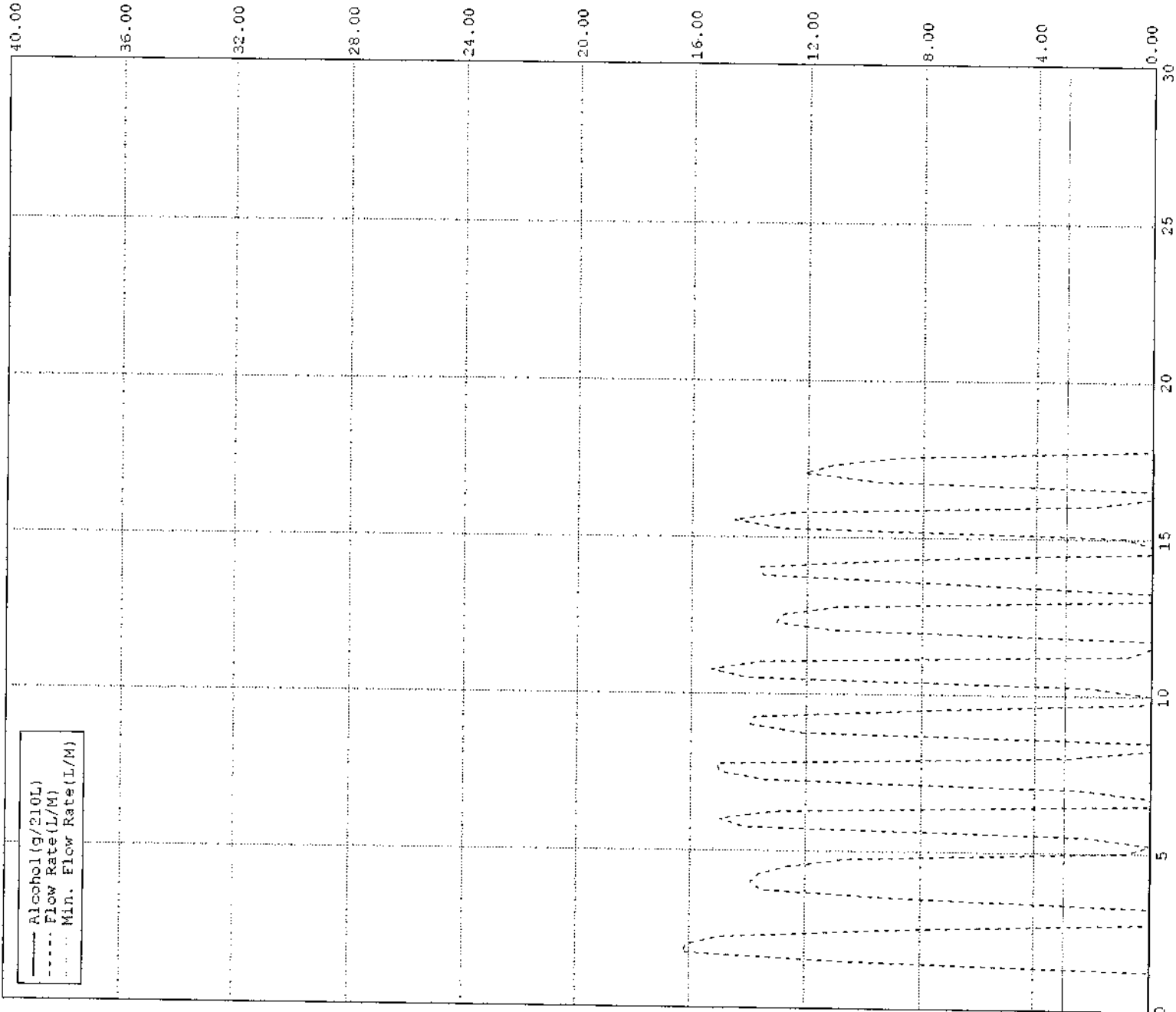
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.04: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 09:45
BLANK TEST 0.000 09:45
INTERNAL STANDARD VERIFIED 09:45
EXTERNAL STANDARD 0.077 09:45
BLANK TEST 0.000 09:46
SUBJECT SAMPLE XXX 09:47

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 12/13/2018
Time: 09:50:10

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

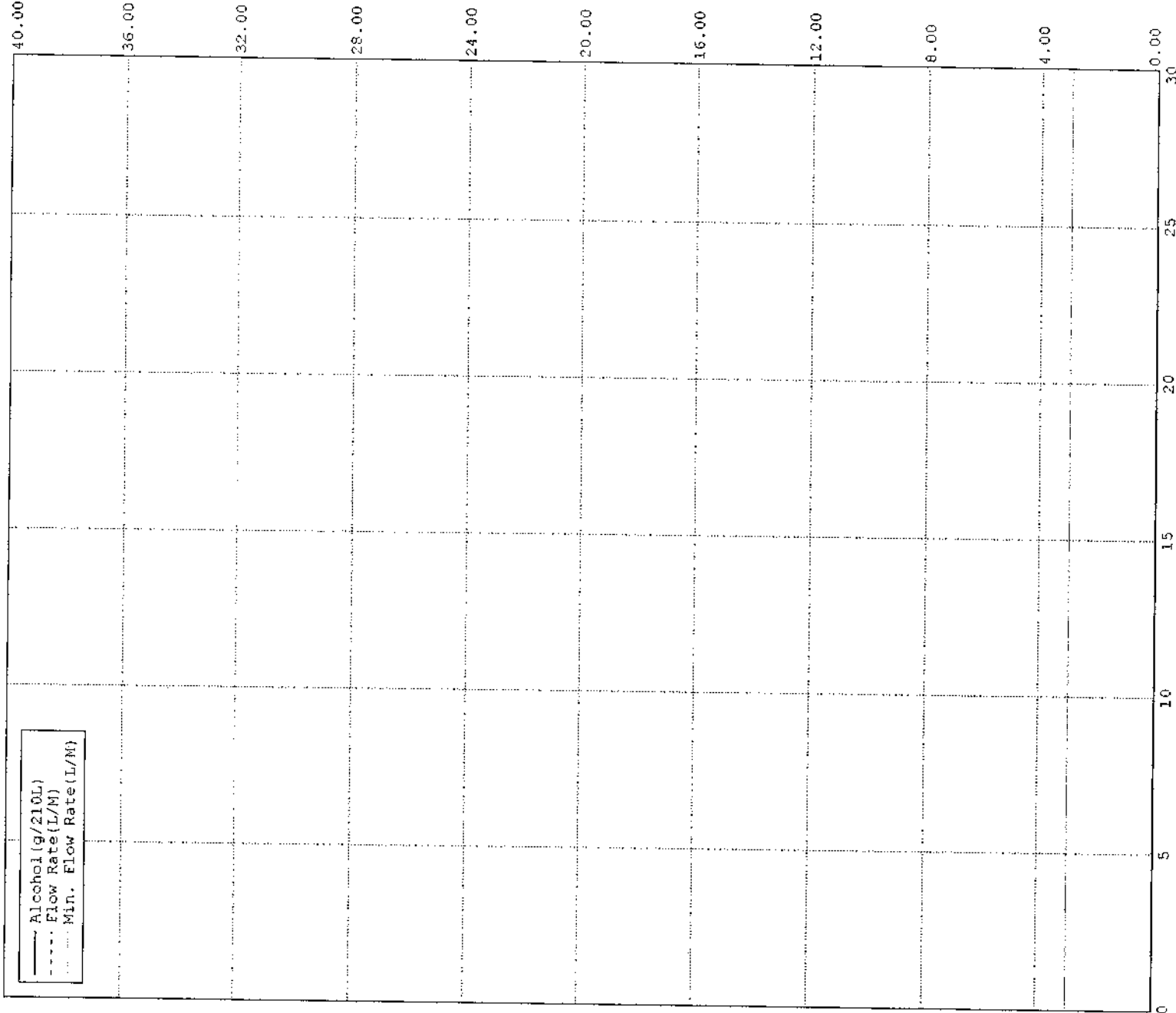
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.04: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 09:56
BLANK TEST 0.000 09:56
INTERNAL STANDARD VERIFIED 09:56
EXTERNAL STANDARD 0.077 09:56
BLANK TEST 0.000 09:57

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 12/13/2018
Time: 10:14:34

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
NON DRINKING SUBJECT TEST
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.04: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	10:16
BLANK TEST	0.000	10:16
INTERNAL STANDARD	VERIFIED	10:16
EXTERNAL STANDARD	0.078	10:16
BLANK TEST	0.000	10:17
SUBJECT SAMPLE (Vol=1.71L)	0.000	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.078	10:19
BLANK TEST	0.000	10:20

