

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 100414 Analyst Brandi Barnett Start Date 2/28/17

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 ILMO Lot 02915020A2 Exp 3/5/17

ii. 0.040g/210L Mnf ILMO Lot 02915040A3 Exp 3/5/17

iii. 0.080g/210L Mnf Airgas Lot AG608504 Exp 3/25/18

iv. 0.100g/210L Mnf ILMO Lot 02915100A1 Exp 3/5/17

v. 0.200g/210L Mnf Guth Lot 15130 Exp 5/11/17

1. Simulator S/N DR5298 Date Calibrated 9/14/16 BMB

vi. 0.300g/210L Mnf Guth Lot 16210 Exp 8/22/18

1. Simulator S/N SD1177 Date Calibrated 9/13/16

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 15220 Level 0.100 Exp 9/28/17

1. Simulator S/N SD1199 Date Calibrated 9/13/16

ii. Isopropanol - Mnf Guth Lot 15220 Level 0.100 Exp 9/28/17

1. Simulator S/N SD1088 Date Calibrated 9/13/16

iii. Negative Control - Mnf Guth Lot 15220 Level 0.100 Exp 9/28/17

1. Simulator S/N DR411d Date Calibrated 9/14/16

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 3-1-17

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 02/28/2017
Time: 10:13:20

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.8°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.82 V PASSED
(1.06 V - 2.48 V)
Cooler Voltage = 1.59 V PASSED
(0.97 V - 2.25 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 536 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 5.090 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.003 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 = 0.087 1.11% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100414

Date: 02/28/2017
Time: 12:27 PM

Temperatures (°C)

Sample Cell: 49.1°C
Breath Tube: 47.0°C

Current Barometer 29.5 in
Volume (Ltr) 1.51

Settings

Lamp: 1.82 V
Bias: 79 V
Cooler: 1.59 V
Chopper: 537 Hz

Voltages (V)

Flow: 1.05 V
Detector: -0.025 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 05/18/2011
Time: 14:24:08

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2010

Ca = 0.1000
CAL = 0.986849 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0046 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0865 0.0500 <= Xq < 0.2000
a21 = 1.125008 1.050 <= a21 < 1.300
a31 = 0.489070 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 02/28/2017
Time: 12:31:39

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

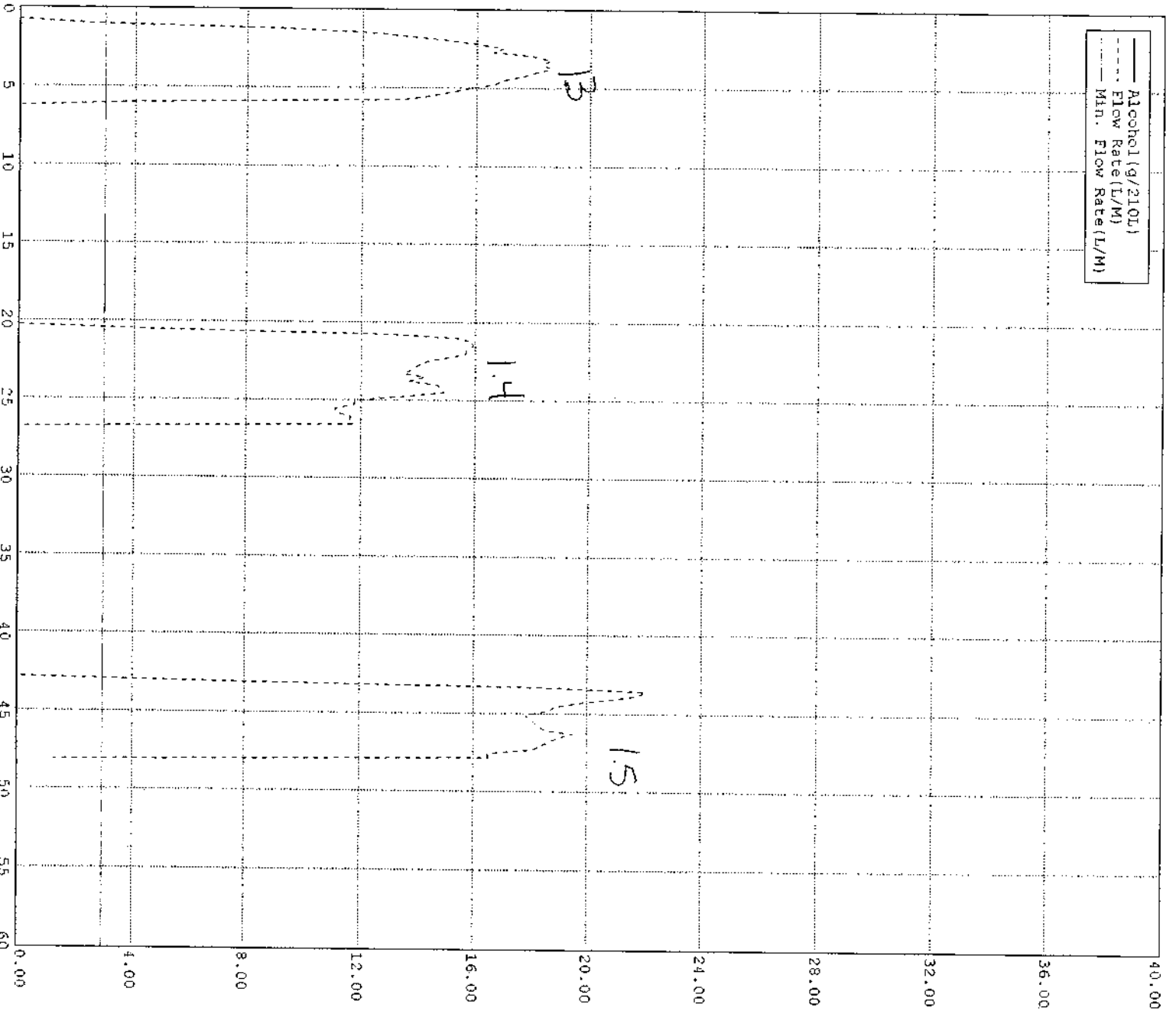
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.51: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	12:33
BLANK TEST	0.000	12:33
INTERNAL STANDARD	VERIFIED	12:33
EXTERNAL STANDARD	0.079	12:33
BLANK TEST	0.000	12:34
SUBJECT SAMPLE (Vol=1.53L)	0.000	12:35
BLANK TEST	0.000	12:36
EXTERNAL STANDARD	0.079	12:36
BLANK TEST	0.000	12:37

ESMB



LINEARITY CHECK

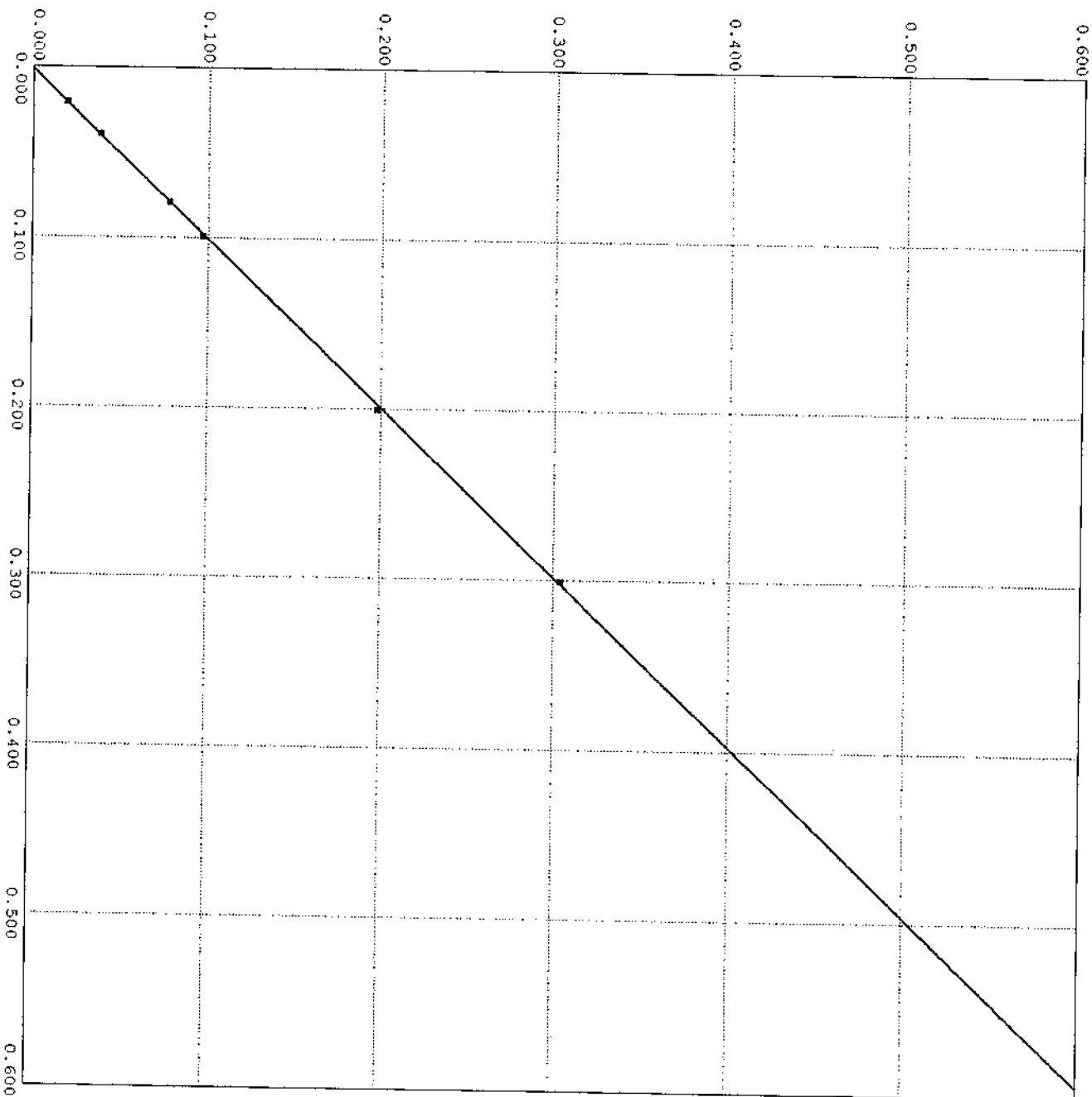
Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 02/28/2017
Time: 13:10:27

SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0202	0.0004
0.039	0.0394	0.0005
0.079	0.0790	0.0000
0.099	0.0980	0.0000
0.200	0.1988	0.0004
0.300	0.3048	0.0004

SLOPE = 1.012667
R² = 0.999750



BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

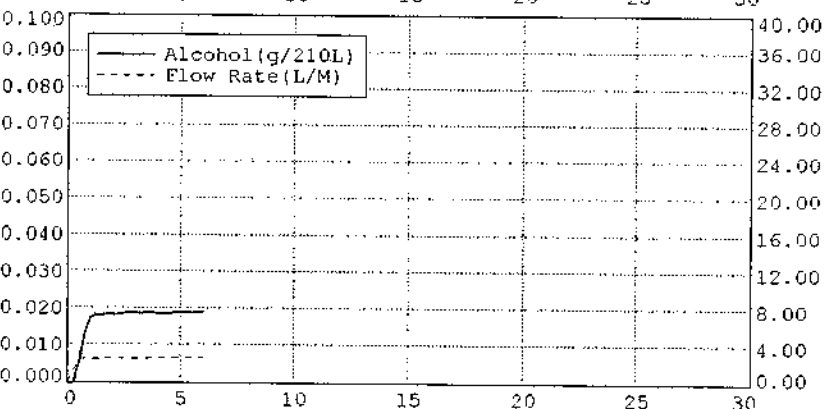
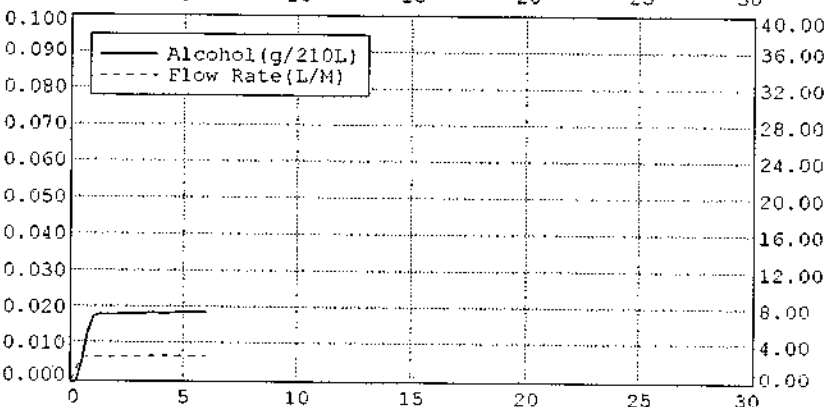
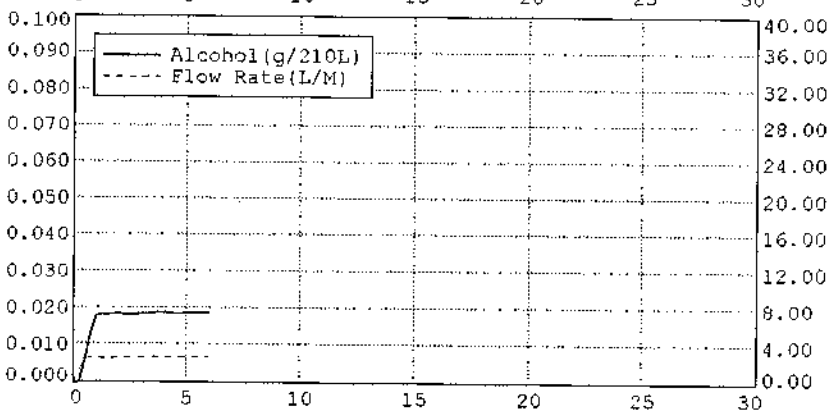
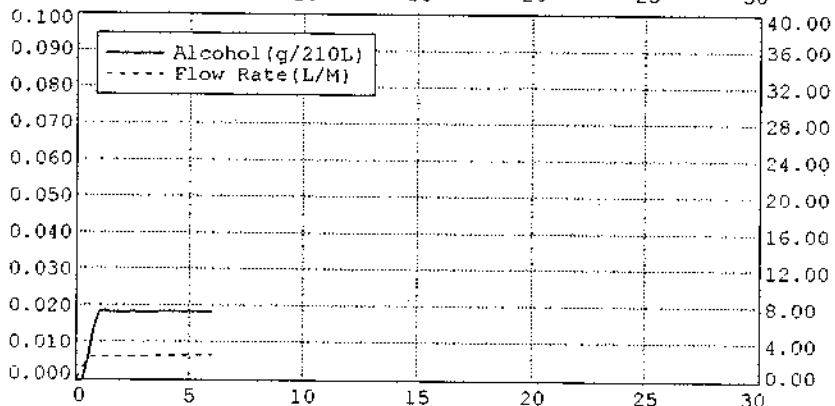
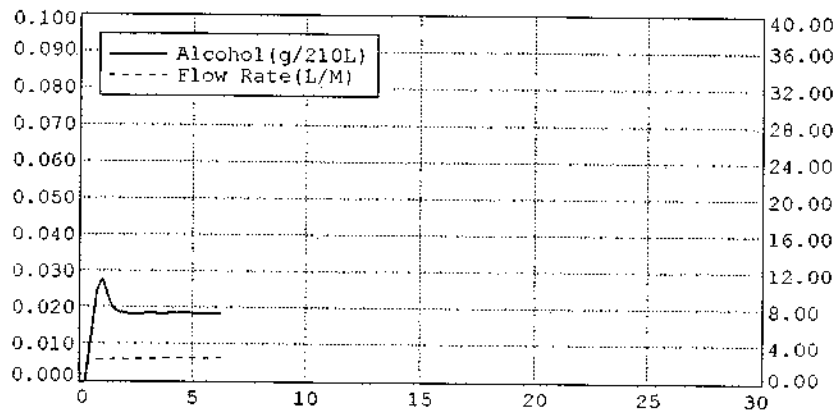
Date: 02/28/2017
 Time: 13:10:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.52: 0.020
 LOT #: 02915020A2
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 1003 psi

BLANK TEST	0.000	13:11
INTERNAL STANDARD	VERIFIED	13:11
EXTERNAL STANDARD	0.020	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.020	13:13
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.020	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.020	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.021	13:16
BLANK TEST	0.000	13:17

Average = 0.0202
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

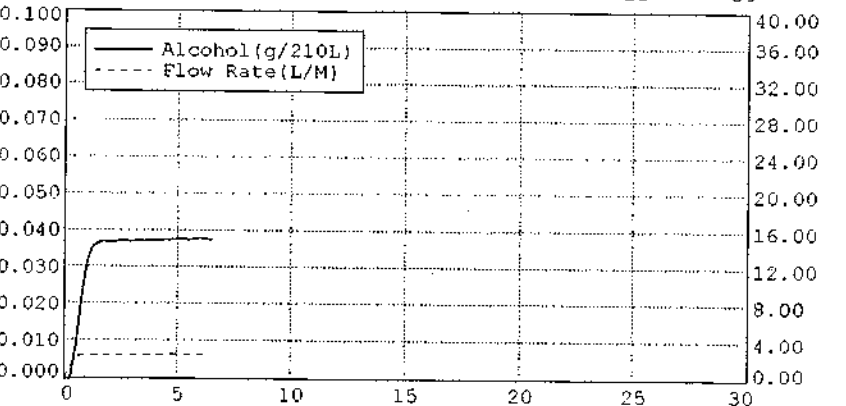
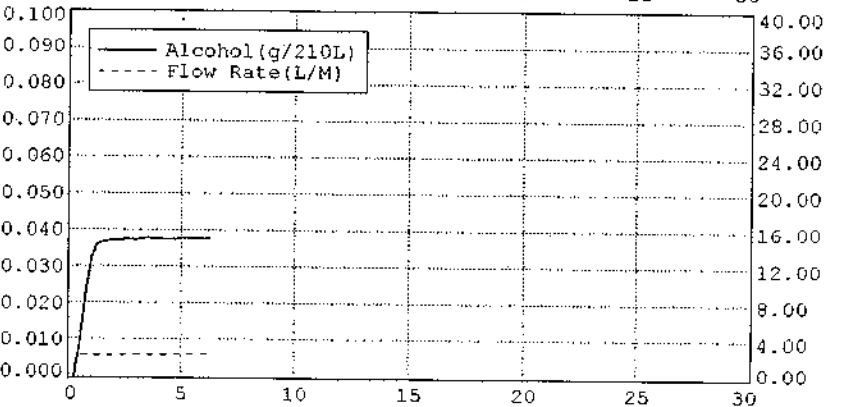
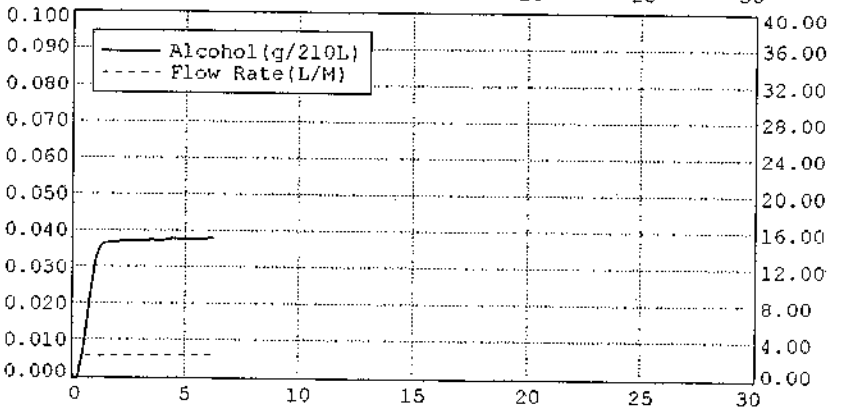
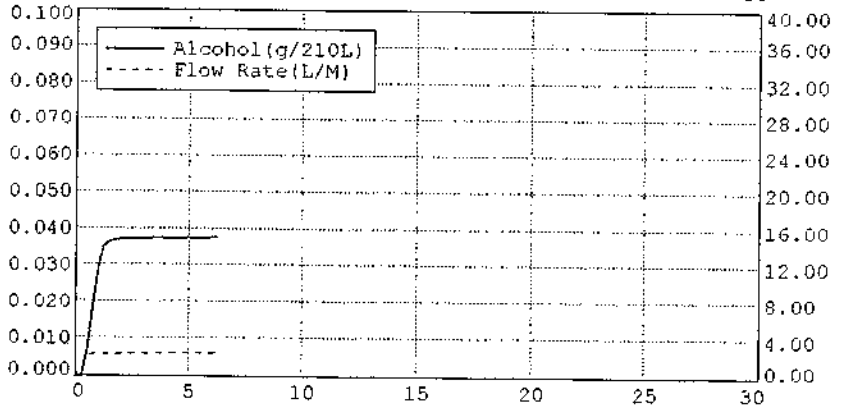
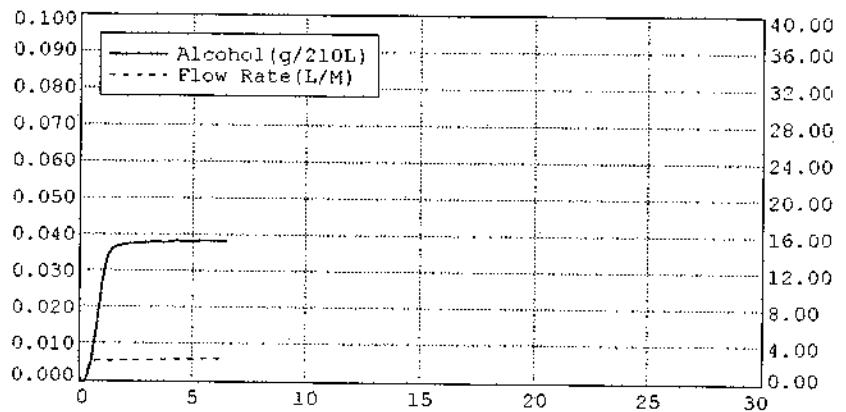
Date: 02/28/2017
 Time: 13:44:43

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.50: 0.039
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 468 psi

BLANK TEST	0.000	13:57
INTERNAL STANDARD	VERIFIED	13:57
EXTERNAL STANDARD	0.040	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.039	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.039	14:00
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.040	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.039	14:02
BLANK TEST	0.000	14:03

Average = 0.0394
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

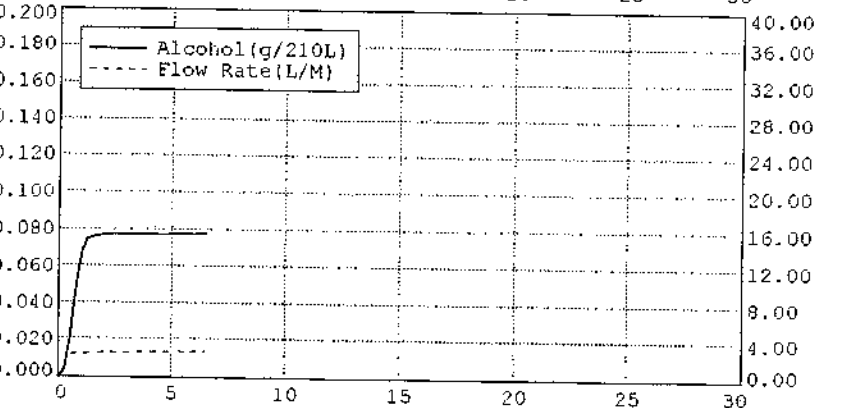
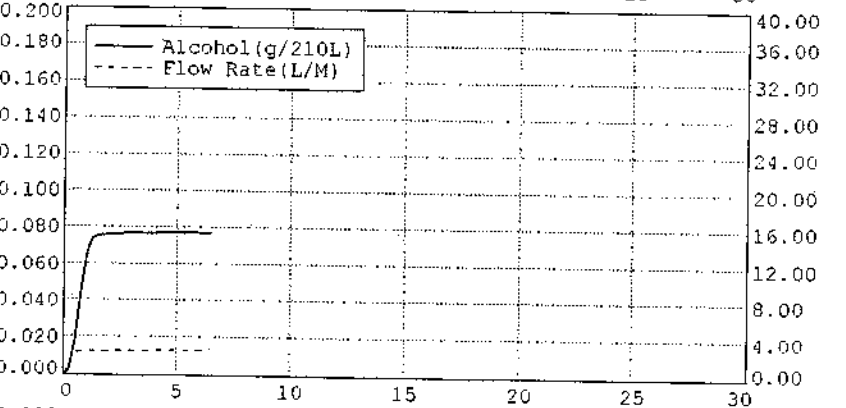
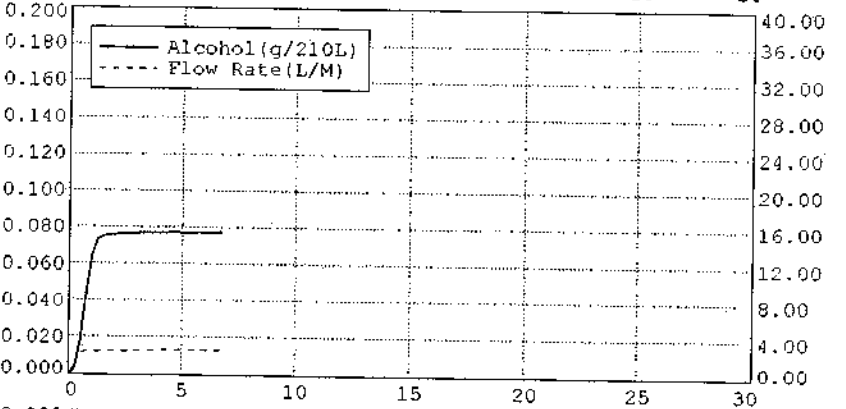
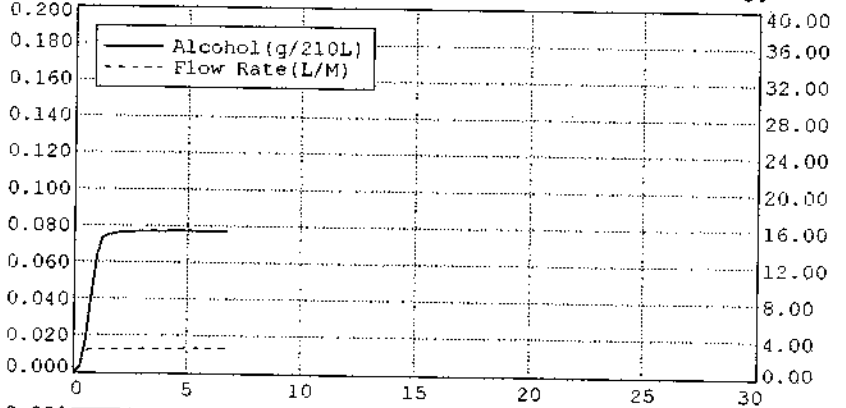
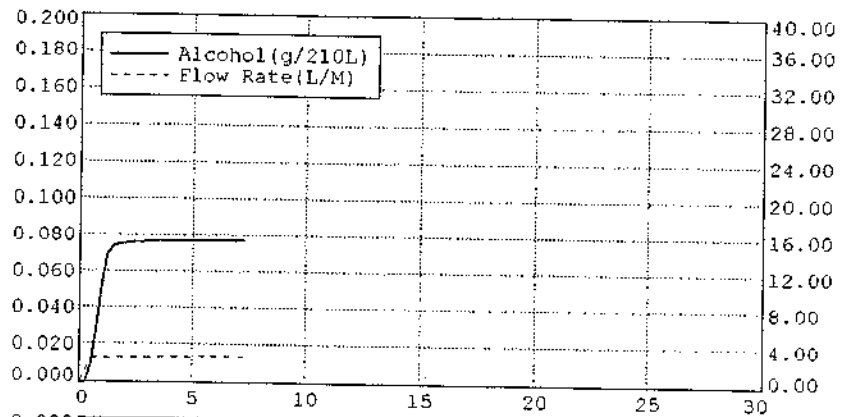
Date: 02/28/2017
 Time: 14:04:05

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.50: 0.079
 LOT #: AG608504
 EXPIRATION: 03/25/2018
 TANK PRESSURE: 1119 psi

BLANK TEST	0.000	14:05
INTERNAL STANDARD	VERIFIED	14:05
EXTERNAL STANDARD	0.079	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.079	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.079	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.079	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.079	14:09
BLANK TEST	0.000	14:10

Average = 0.0790
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

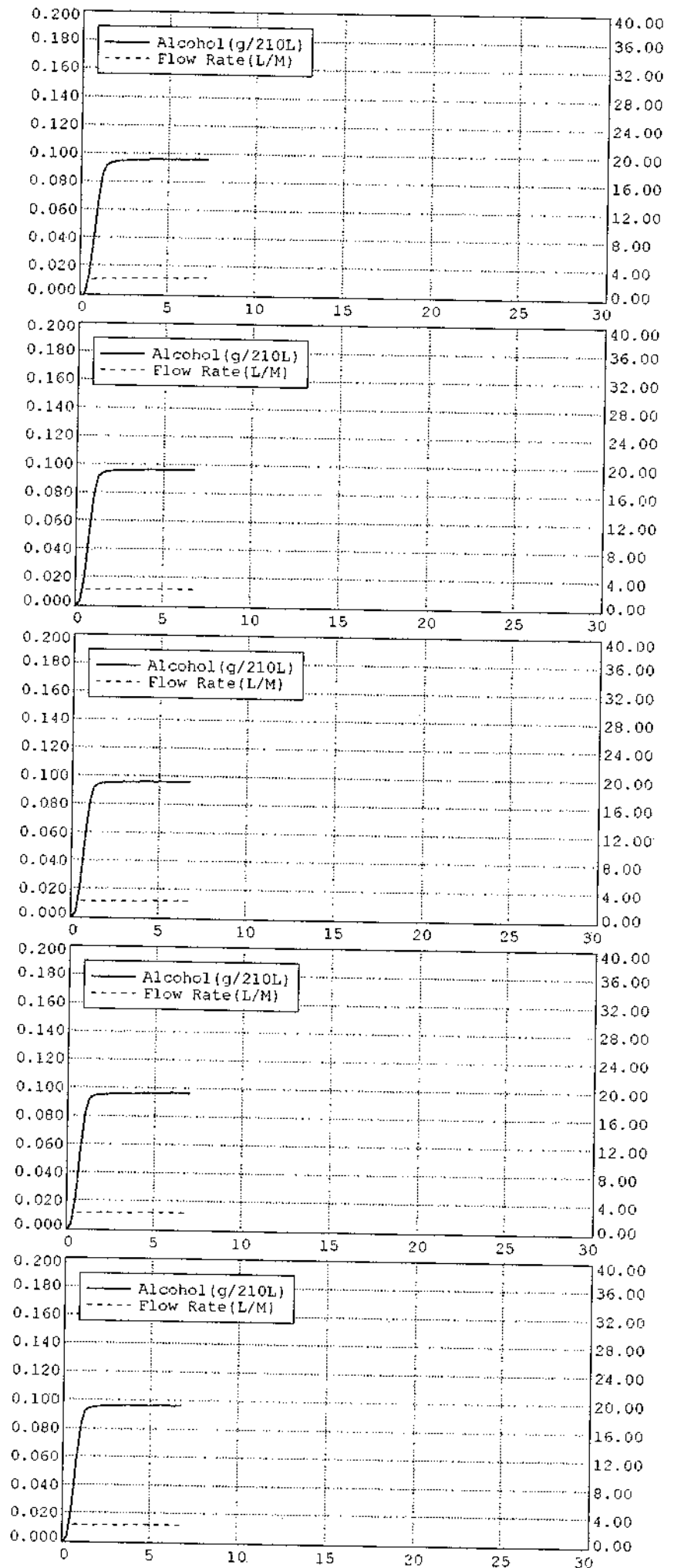
Date: 02/28/2017
 Time: 14:11:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.50: 0.099
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 436 psi

BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:12
EXTERNAL STANDARD	0.098	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.098	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.098	14:15
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.098	14:16
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.098	14:17
BLANK TEST	0.000	14:18

Average = 0.0980
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

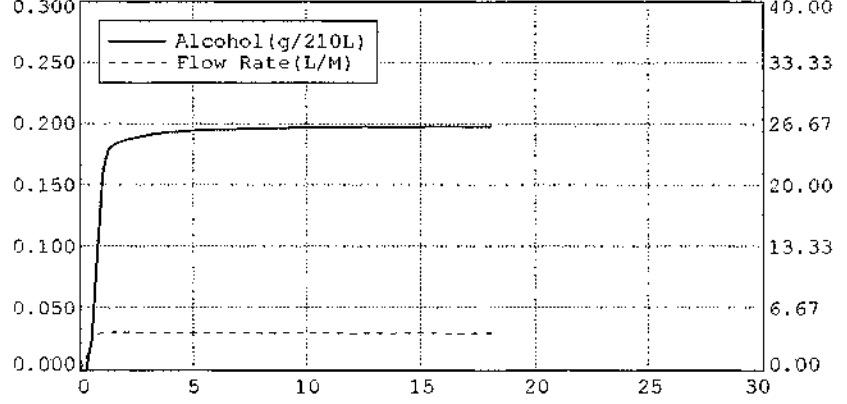
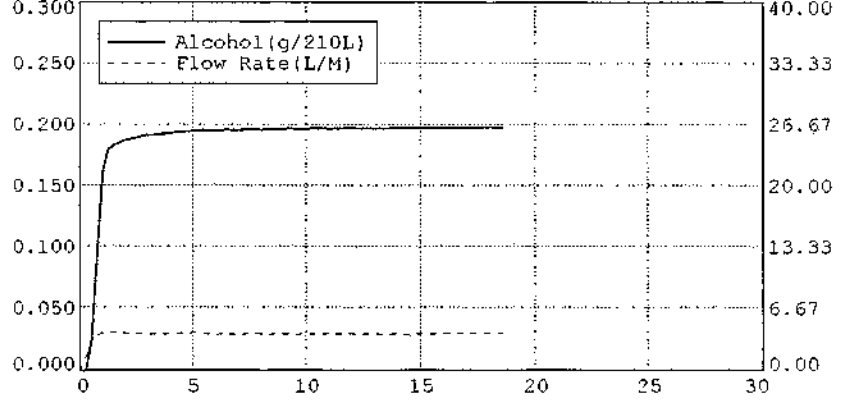
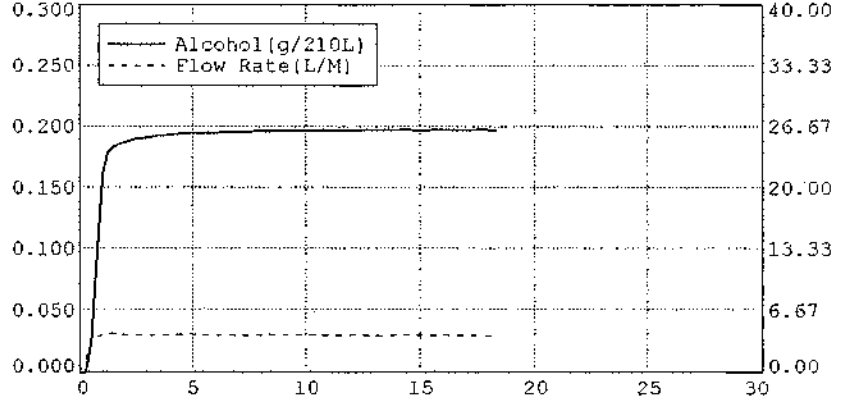
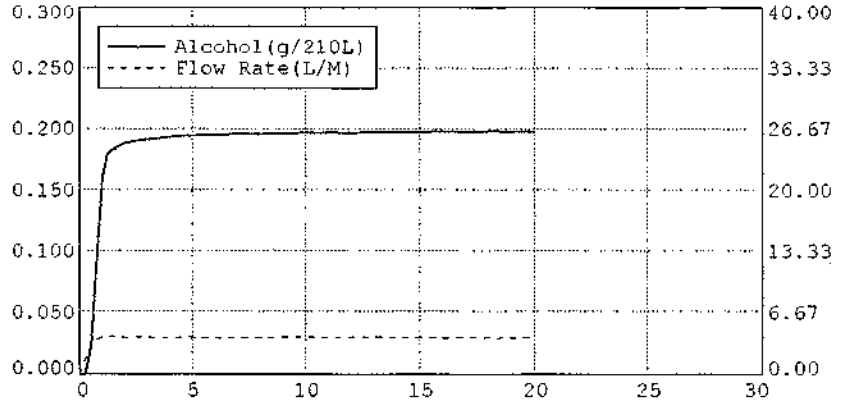
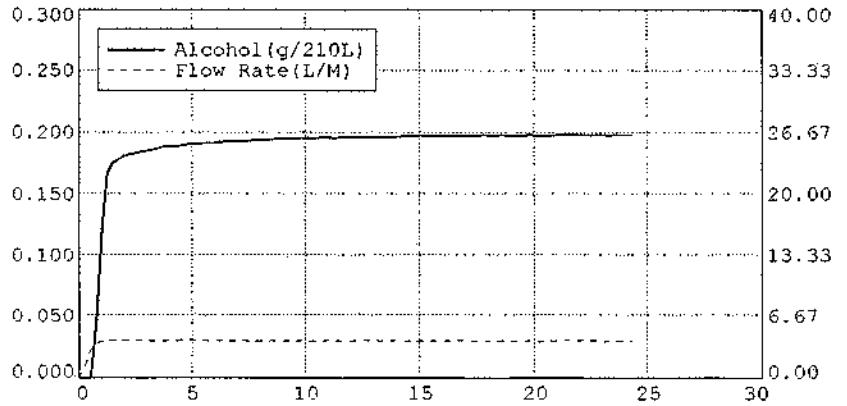
Alaska Department of Public Safety
 DATAMASTER dmt: 100414

Date: 02/28/2017
 Time: 14:20:22

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: GUTH 15130
 EXPIRATION: 05/11/2017

BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:21
EXTERNAL STANDARD	0.199	14:22
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.199	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.198	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.199	14:26
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.199	14:27
BLANK TEST	0.000	14:28

Average = 0.1988
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

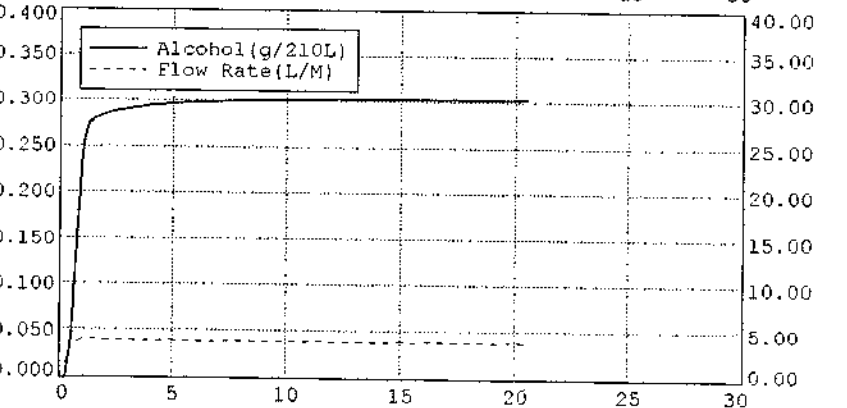
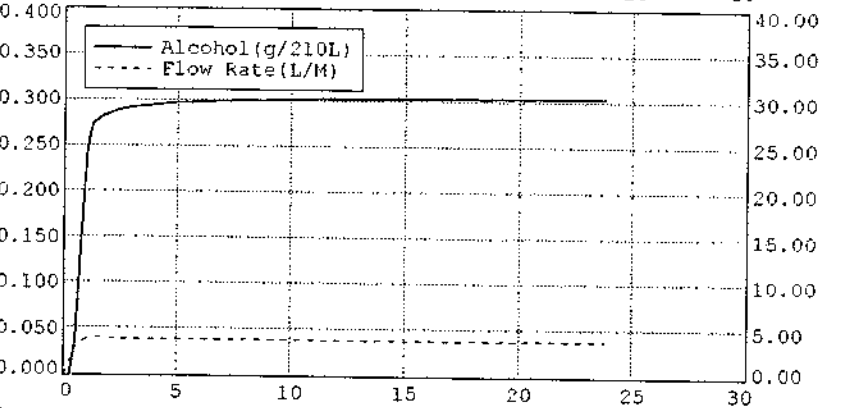
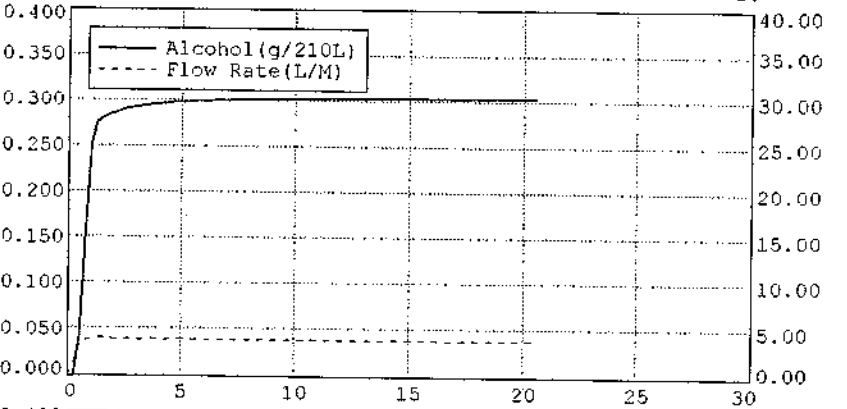
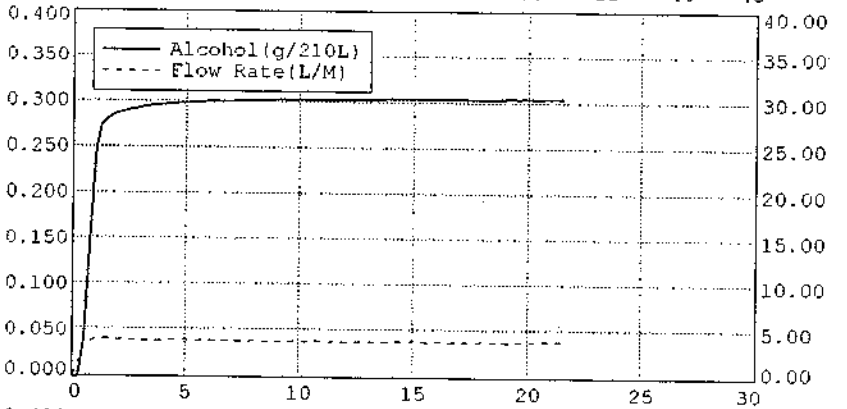
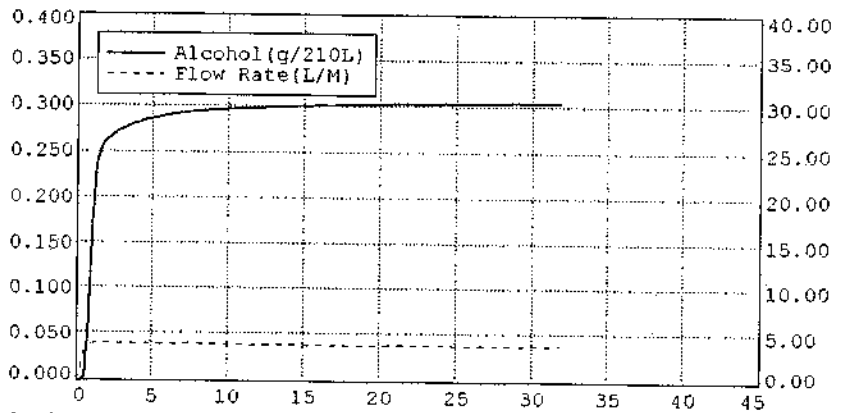
Date: 02/28/2017
 Time: 14:29:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: GUTH 16210
 EXPIRATION: 08/22/2018

BLANK TEST	0.000	14:30
INTERNAL STANDARD	VERIFIED	14:31
EXTERNAL STANDARD	0.305	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.305	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.305	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.305	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.304	14:37
BLANK TEST	0.000	14:38

Average = 0.3048
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100414

Date: 03/01/2017
Time: 11:10:36

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

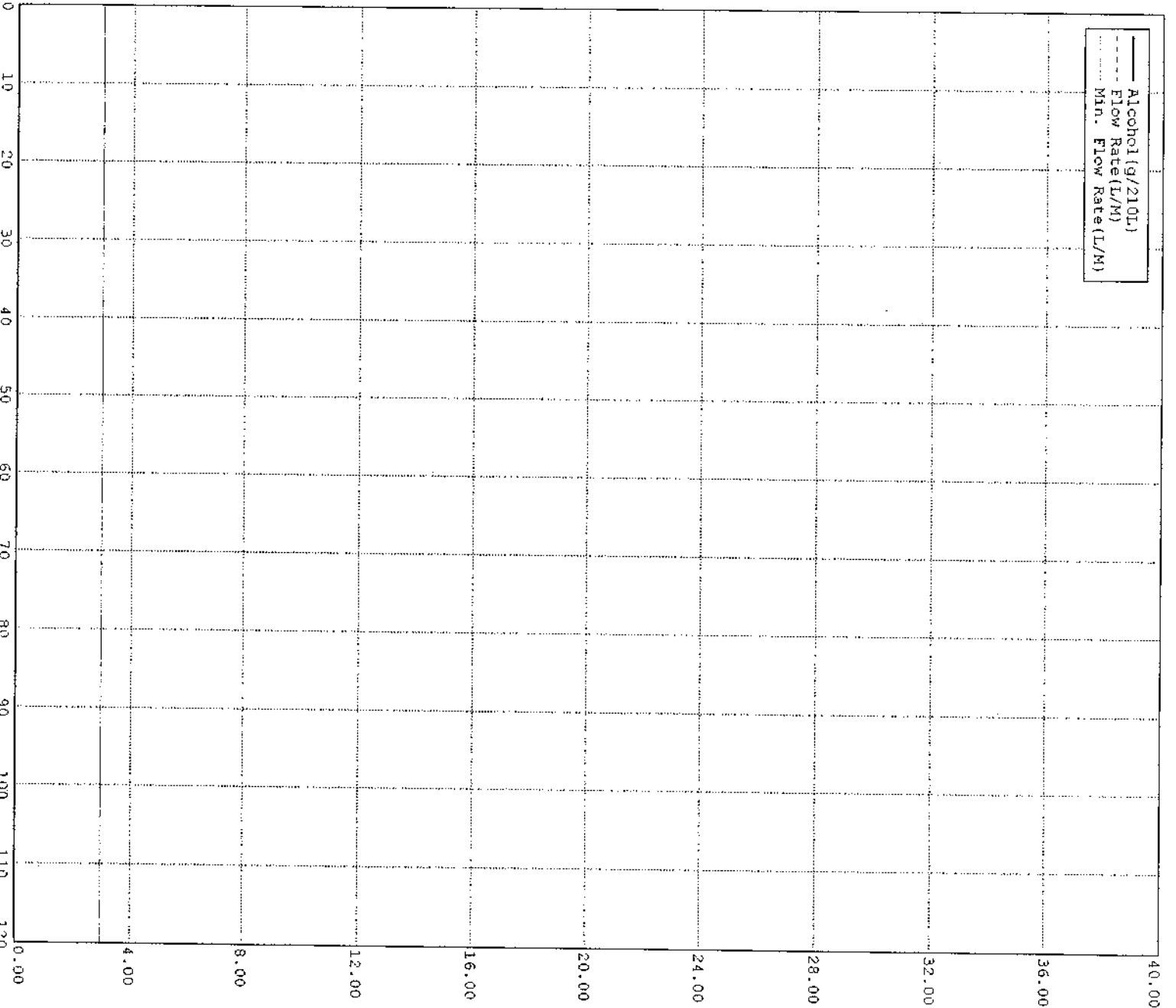
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	11:11
BLANK TEST	0.000	11:11
INTERNAL STANDARD	VERIFIED	11:11
EXTERNAL STANDARD	0.078	11:12
BLANK TEST	0.000	11:13
SUBJECT SAMPLE	INCOMPLETE	11:15

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 03/01/2017
Time: 11:52:07

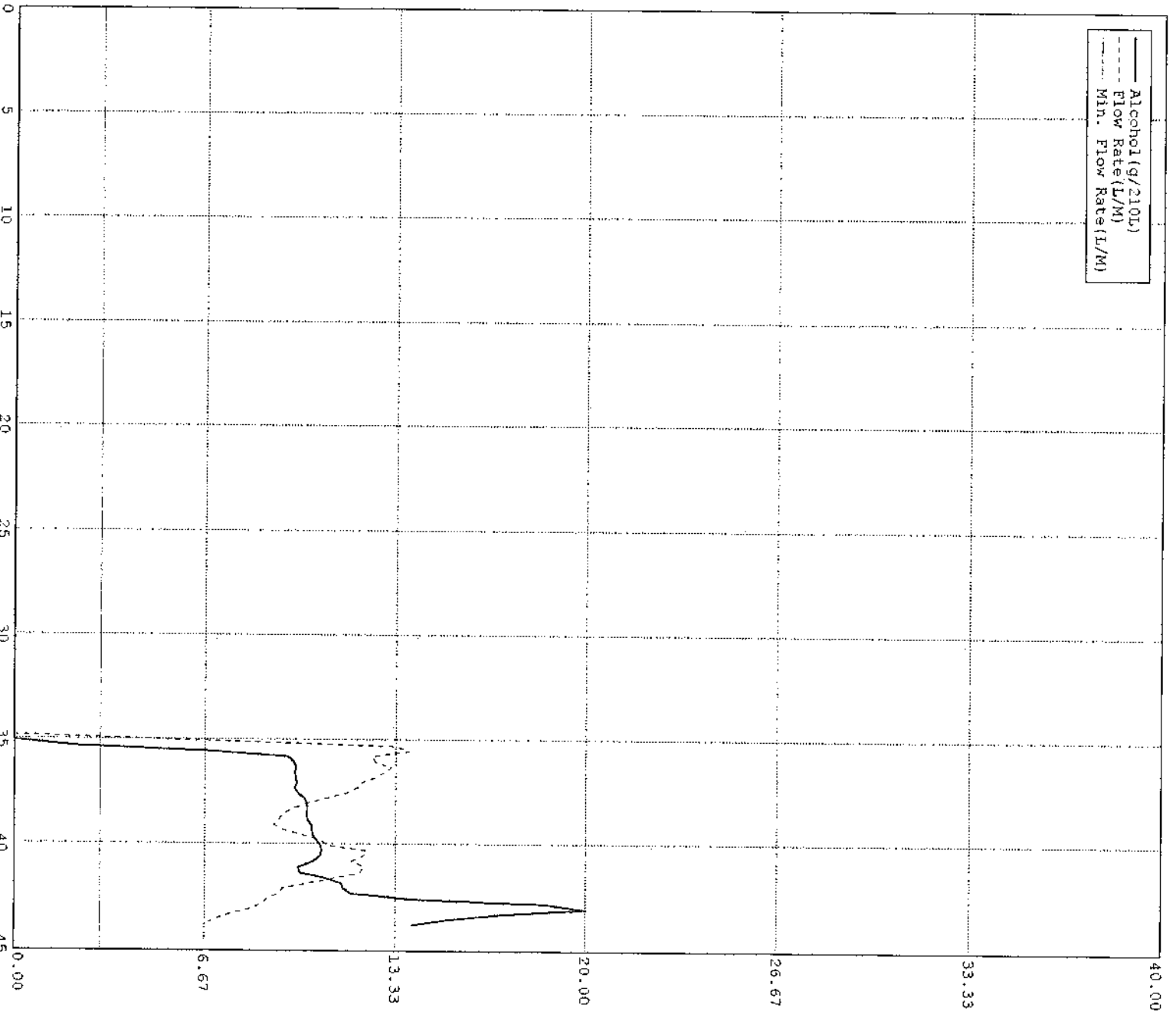
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
INVALID KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	11:53
BLANK TEST	0.000	11:53
INTERNAL STANDARD	VERIFIED	11:53
EXTERNAL STANDARD	0.079	11:53
BLANK TEST	0.000	11:54
SUBJECT SAMPLE	INVALID	11:55

BBMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 03/01/2017
Time: 12:14:04

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

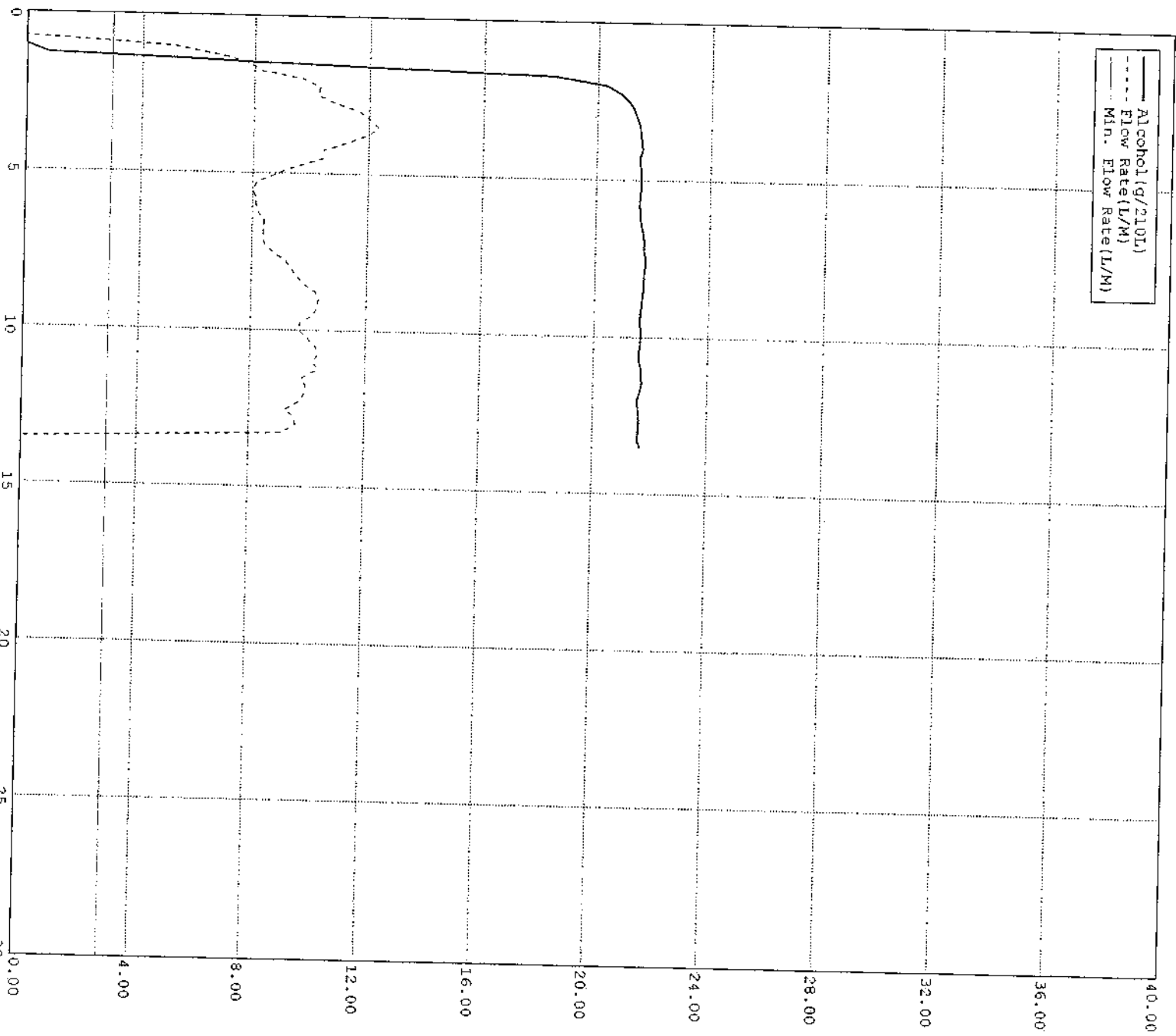
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	12:15
BLANK TEST	0.000	12:15
INTERNAL STANDARD	VERIFIED	12:15
Xq = 0.088 (1.41%)		
EXTERNAL STANDARD	0.078	12:15
X[1] = 0.0785 (-0.0022)	(0.0017)	
BLANK TEST	0.000	12:16
SUBJECT SAMPLE	XXX	12:16
X[1] = 0.1101 (-0.0196)	(0.0001)	

Interference Detected

Filter 2 Avg: -0.0019
Filter 3 Avg: 0.0018

BMB 3/1/17



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 03/01/2017
Time: 12:19:57

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

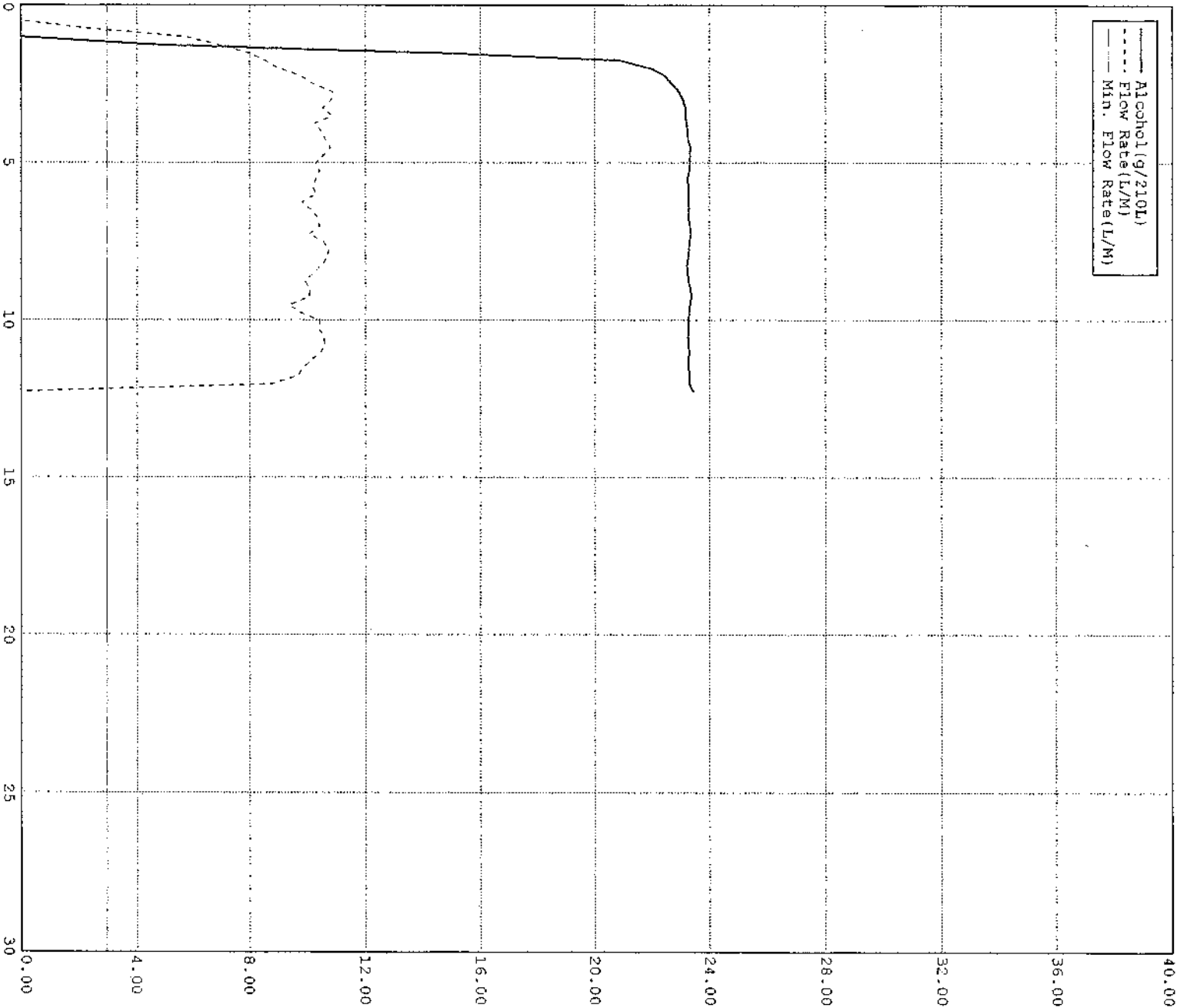
DEPT/AGENCY:
INTERFERENCE ISOPROPYL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	12:22
BLANK TEST	0.000	12:22
INTERNAL STANDARD	VERIFIED	12:22
Xq = 0.088 (1.61%)		
EXTERNAL STANDARD	0.079	12:22
X[1] = 0.0789 (-0.0029)	(0.0018)	
BLANK TEST	0.000	12:23
SUBJECT SAMPLE	XXX	12:23
X[1] = 0.1184 (-0.0210)	(0.0018)	

Interference Detected

BM



SUBJECT TEST

Alaska Department of Public Safety
DATABASE dnt: 100414

Date: 03/01/2017
Time: 12:27:55

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

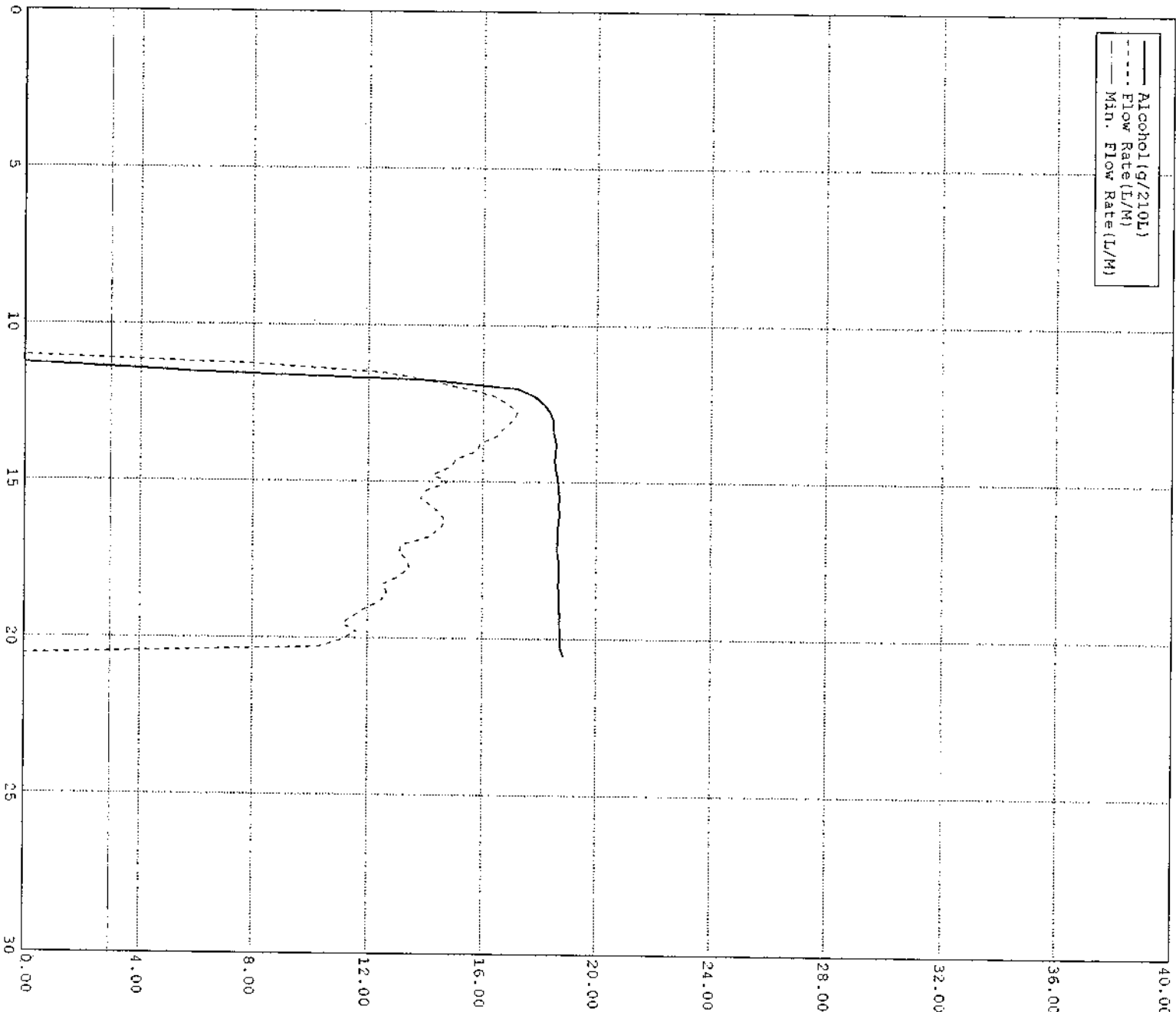
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOF #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	12:29
BLANK TEST	0.000	12:29
INTERNAL STANDARD	VERIFIED	12:29
Xq = 0.089 (3.23%)		
EXTERNAL STANDARD	0.081	12:30
X[1] = 0.0808 (-0.0005) (0.0024)		
BLANK TEST	0.000	12:30
SUBJECT SAMPLE (Vol=2.14L)	0.095	12:31
X[1] = 0.0955 (0.0001) (0.0006)		
BLANK TEST	0.000	12:32
EXTERNAL STANDARD	0.079	12:32
X[1] = 0.0794 (-0.0020) (0.0013)		
BLANK TEST	0.000	12:33

BBMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 03/01/2017
Time: 11:46:58

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

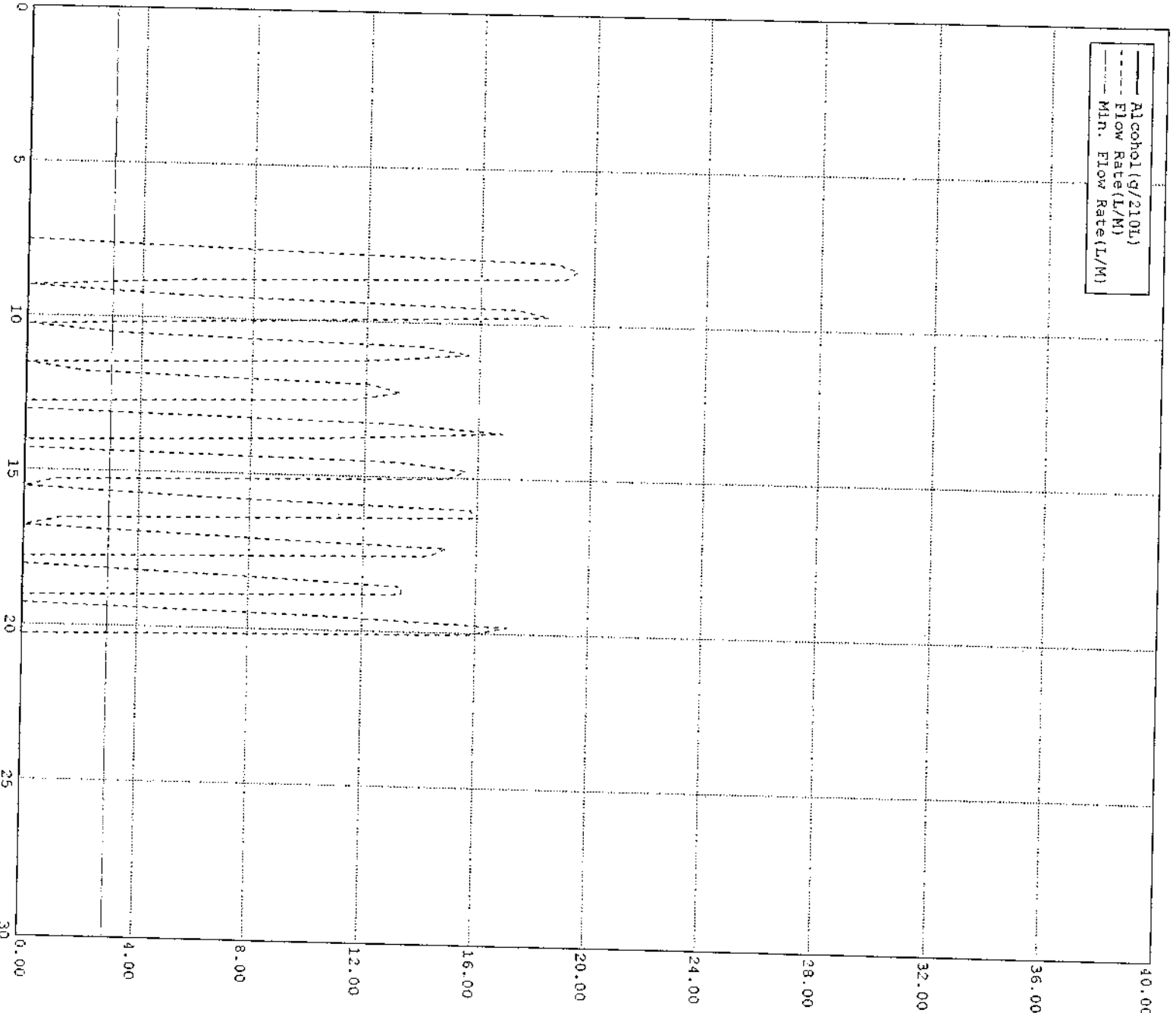
DEPT/AGENCY:
MAXIMUM ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	11:48
BLANK TEST	0.000	11:48
INTERNAL STANDARD	VERIFIED	11:48
EXTERNAL STANDARD	0.079	11:48
BLANK TEST	0.000	11:49
SUBJECT SAMPLE	XXX	11:50

Maximum Attempts Exceeded

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 03/01/2017
Time: 11:37:07

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

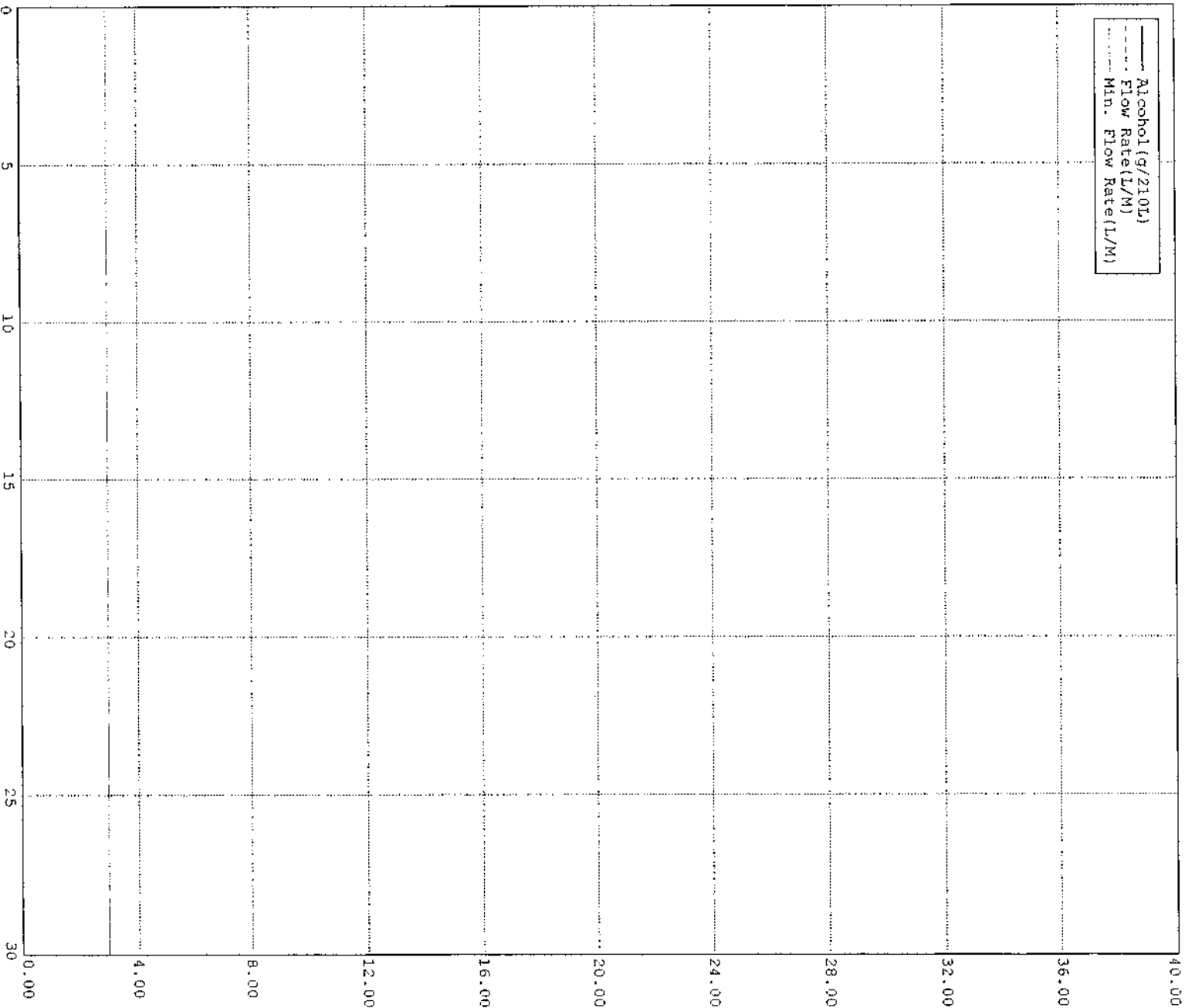
DEPT/AGENCY:
RFI
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 11:38
BLANK TEST 0.000 11:38
INTERNAL STANDARD VERIFIED 11:39
EXTERNAL STANDARD 0.080 11:39
BLANK TEST 0.000 11:40

RFI DETECTED

Handwritten signature: BMB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100414

Date: 03/01/2017
Time: 13:41:35

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	13:42
BLANK TEST	0.000	13:43
INTERNAL STANDARD	0.080	13:43
EXTERNAL STANDARD	0.000	13:44
BLANK TEST	0.000	13:45
SUBJECT SAMPLE (Vol=1.74L)	0.000	13:45
BLANK TEST	0.080	13:45
EXTERNAL STANDARD	0.000	13:46
BLANK TEST	0.000	13:46

BRMB

