

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100371 Analyst Brandi Barnett Start Date 8/28/12

Diagnostic Test (attached)

1. Voltage Checks

a. Adjust voltages, if needed

i. Lamp (2.6V Maximum)

ii. Bias (80V)

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 1500 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 3/1/13

ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13

iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14

iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 3/1/13

v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/13

1. Simulator S/N SD1198 Date Calibrated 01/10/12

vi. 0.300g/210L Mnf SDH Guth Lot 11110 Exp 7/13/13

1. Simulator S/N DR4178 Date Calibrated 2/21/12

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/13

1. Simulator S/N SD1199 Date Calibrated 01/11/2012

ii. Isopropanol - Mnf Guth Lot 11100 Level 0.100 Exp 7/6/13

1. Simulator S/N DR6267 Date Calibrated 01/10/2012

iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13

1. Simulator S/N DR4176 Date Calibrated 02/21/2012

d. RFI

6. Verify stylus is calibrated

7. Verify card reader is functional

8. Reset Options

9. Clear Memory

10. Verification of Calibration

11. Non-Drinking Subject Test (attached)

12. Upload

13. Update agency information and polling status in DM Host Calling Program

End Date 8/28/12

1/19 BMB

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 08/28/2012
Time: 09:38:00

VERSIONS
DMT: 2.00
PIC: 3.02
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 46.6°C PASSED

PUMP INFO

Flow Rate = 4.611 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

2/19 BMP

Technician Screen

DATAMASTER dmt: 100371

Date: 08/28/2012
Time: 9:48 AM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 47.0°C

Current Barometer 29.9 in
Volume (Ltr) 1.54

Settings

Lamp: 1.67 V
Bias: 79 V
Cooler: 1.66 V
Chopper: 550 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.003 V

3/19/08

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 04/09/2012
Time: 10:47:16

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

Ca = 0.1000
CAL = 0.955581 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0057 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0764 0.0500 <= Xq < 0.2000
a21 = 1.167395 1.050 <= a21 < 1.300
a31 = 0.489347 0.300 <= a31 < 0.800

4/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 08/28/2012
Time: 09:49:22

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

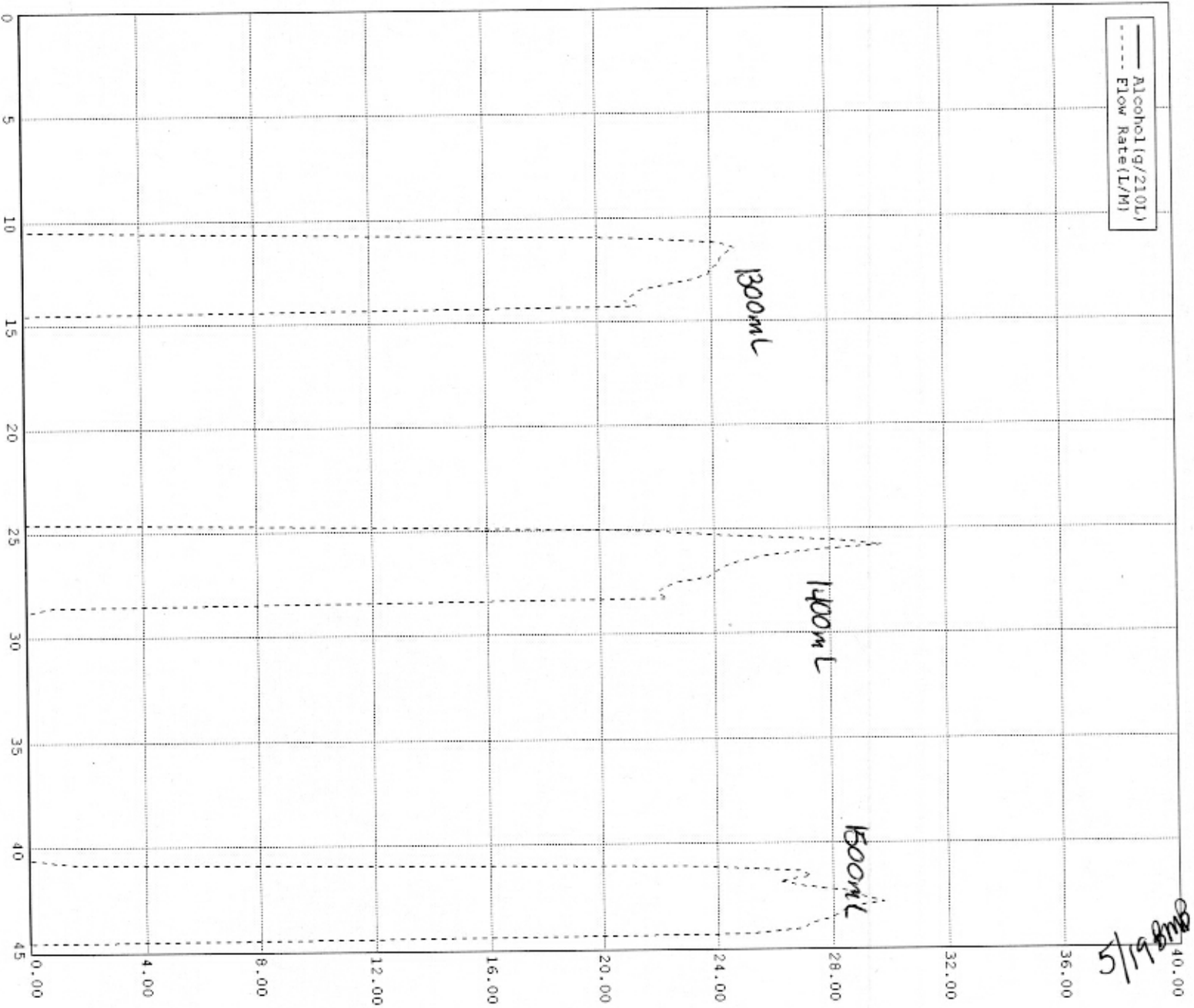
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.94: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:51
BLANK TEST	0.000	09:51
INTERNAL STANDARD	VERIFIED	09:51
EXTERNAL STANDARD	0.077	09:51
BLANK TEST	0.000	09:52
SUBJECT SAMPLE	0.000	09:53
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.078	09:54
BLANK TEST	0.000	09:55

BMB



5/1/12 BMB

LINEARITY CHECK

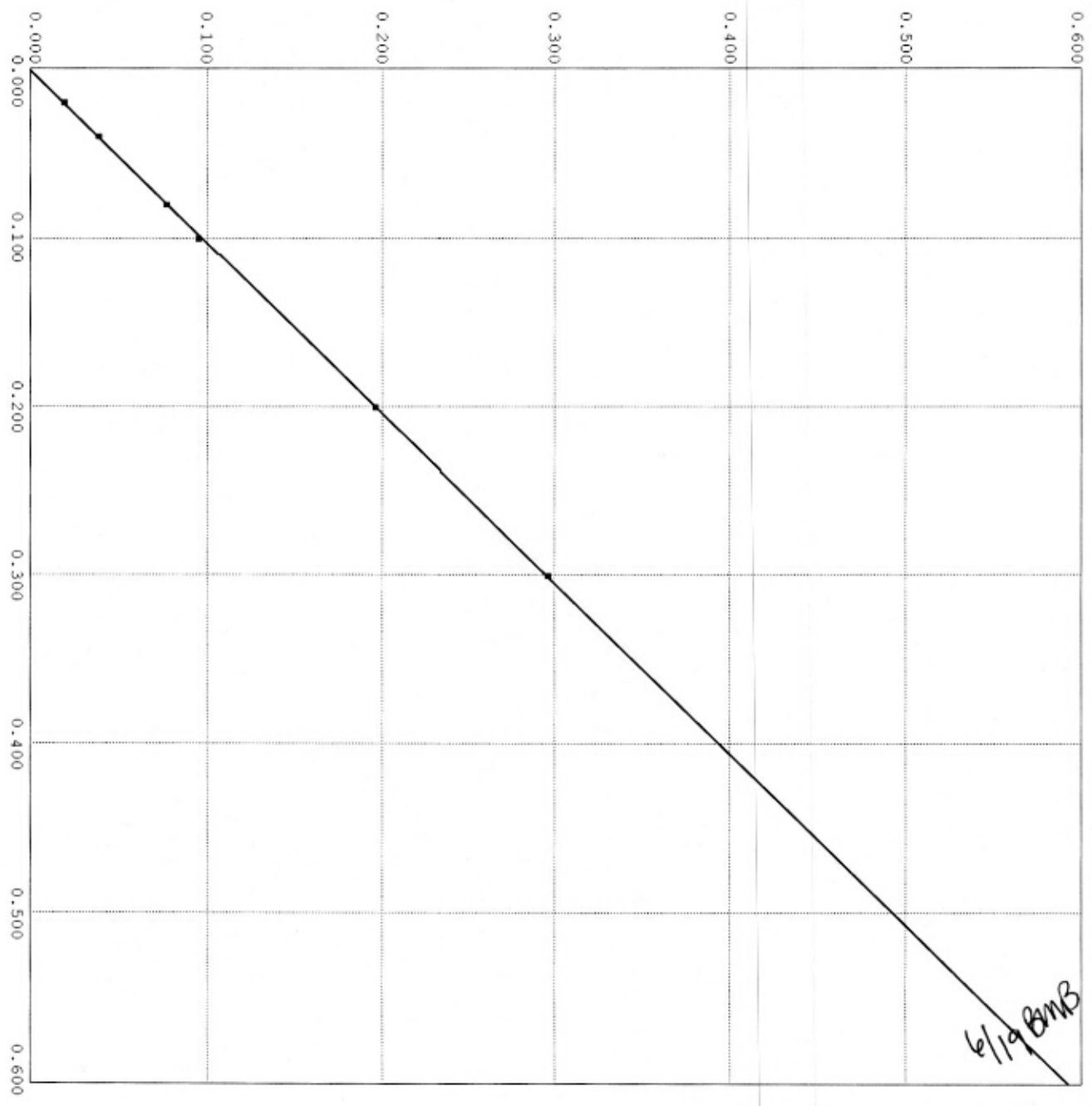
Alaska Department of Public Safety
 DATAMASTER dmt: 100371

Date: 08/28/2012
 Time: 11:55:59

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0199	0.0004
0.040	0.0394	0.0003
0.080	0.0779	0.0004
0.100	0.0962	0.0003
0.200	0.1969	0.0006
0.300	0.2968	0.0004

SLOPE = 0.990057
 R² = 0.999900



6/19/12 BMB

BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100371

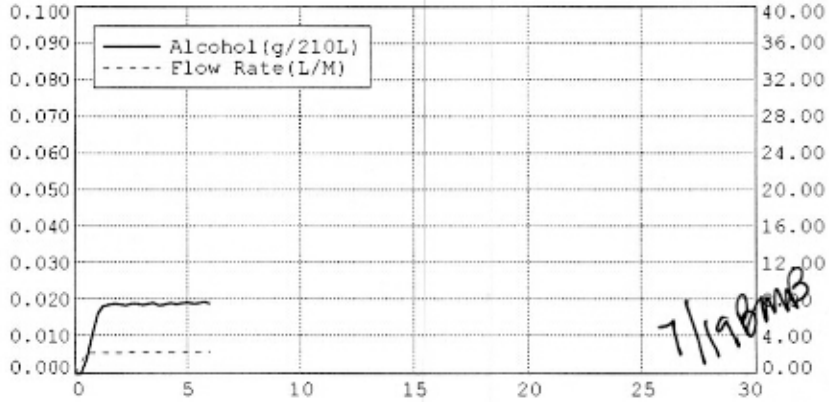
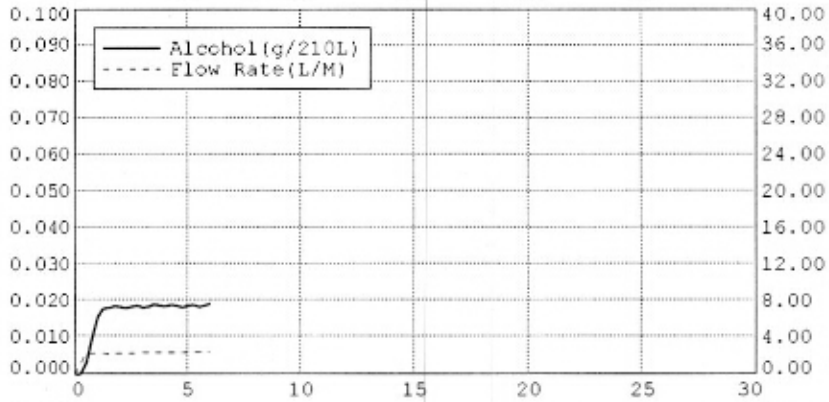
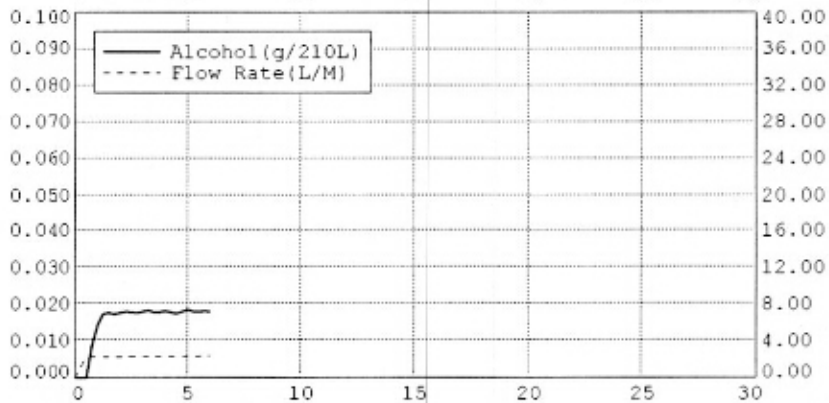
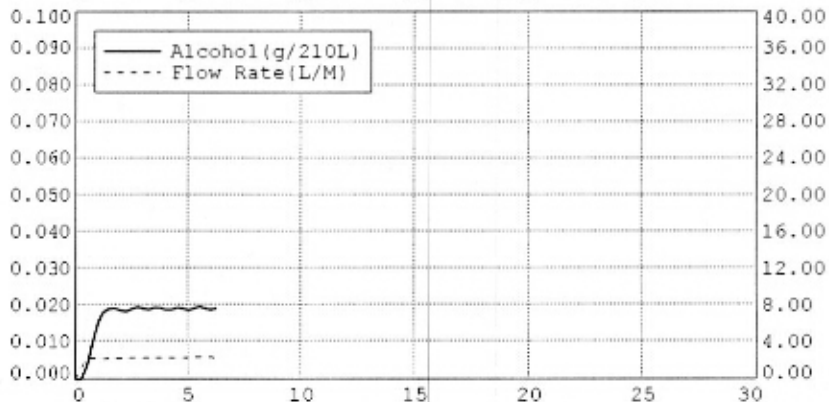
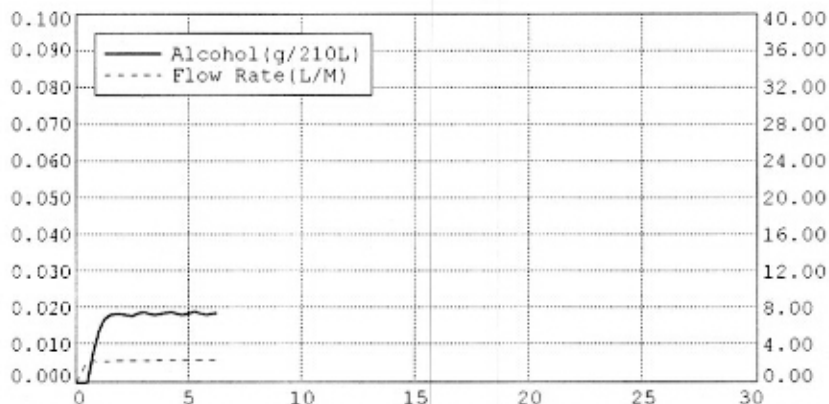
Date: 08/28/2012
 Time: 11:56:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.97: 0.020
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:57
INTERNAL STANDARD	VERIFIED	11:57
EXTERNAL STANDARD	0.020	11:57
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.020	11:58
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.019	11:59
BLANK TEST	0.000	12:00
EXTERNAL STANDARD	0.019	12:00
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.020	12:01
BLANK TEST	0.000	12:02

Average = 0.0199
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100371

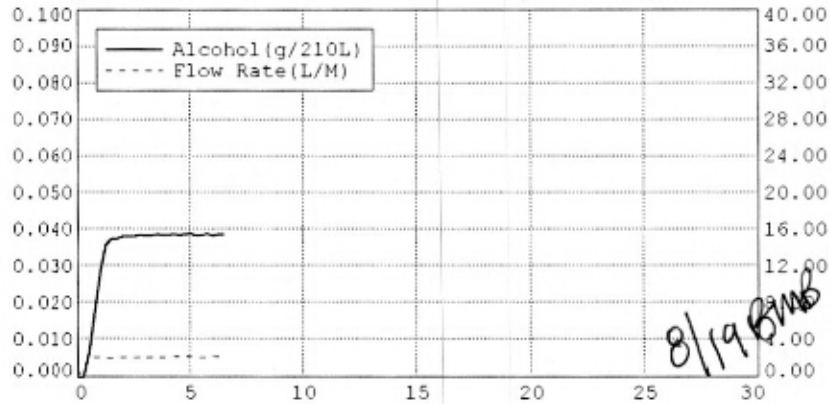
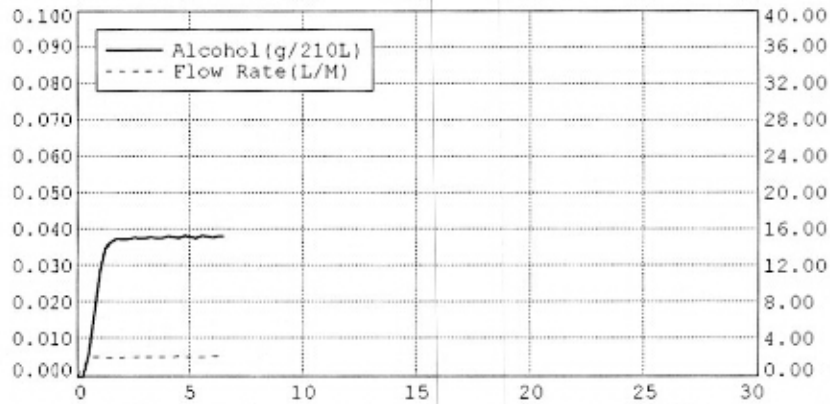
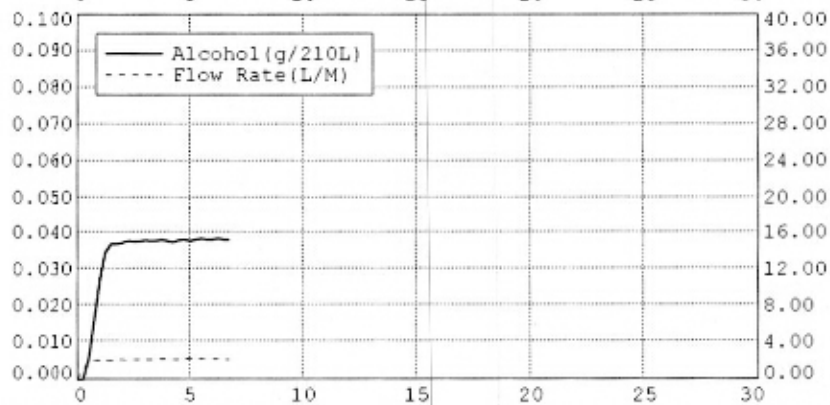
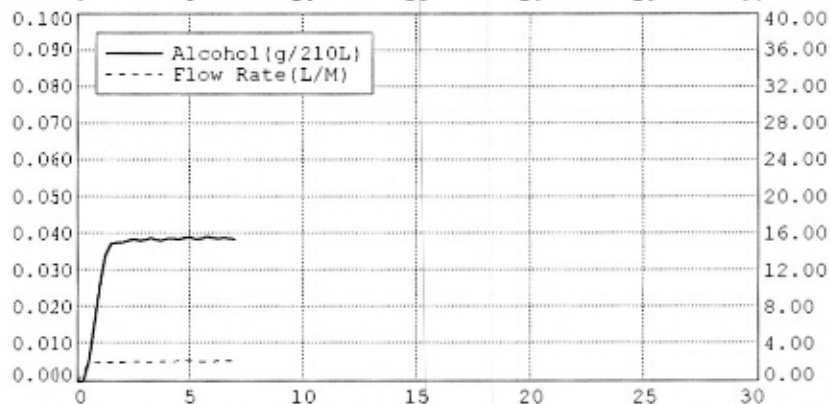
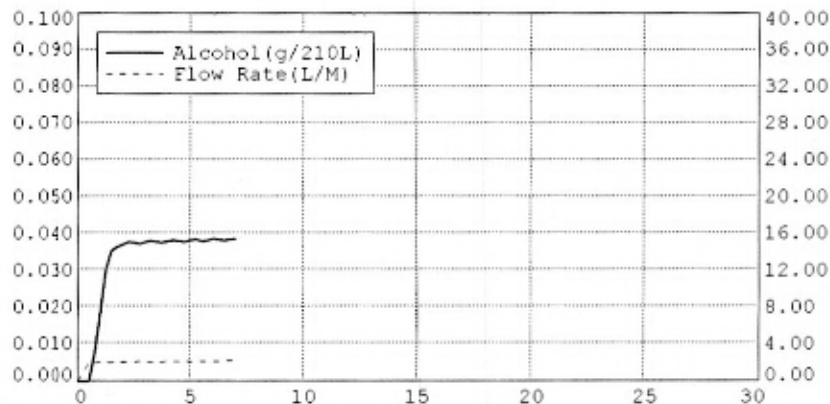
Date: 08/28/2012
Time: 12:44:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.97: 0.040
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:45
INTERNAL STANDARD	VERIFIED	12:46
EXTERNAL STANDARD	0.039	12:46
BLANK TEST	0.000	12:47
EXTERNAL STANDARD	0.039	12:47
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.039	12:48
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.039	12:49
BLANK TEST	0.000	12:50
EXTERNAL STANDARD	0.039	12:50
BLANK TEST	0.000	12:51

Average = 0.0394
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100371

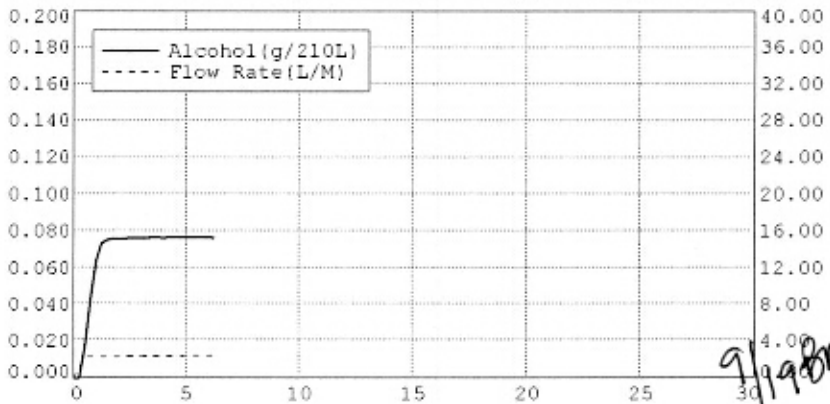
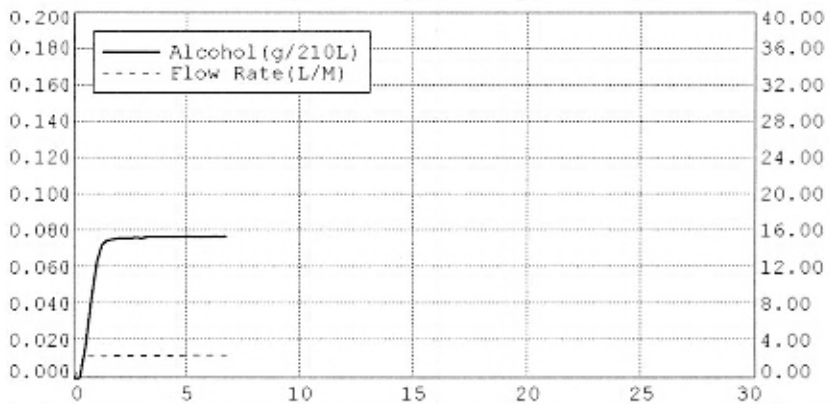
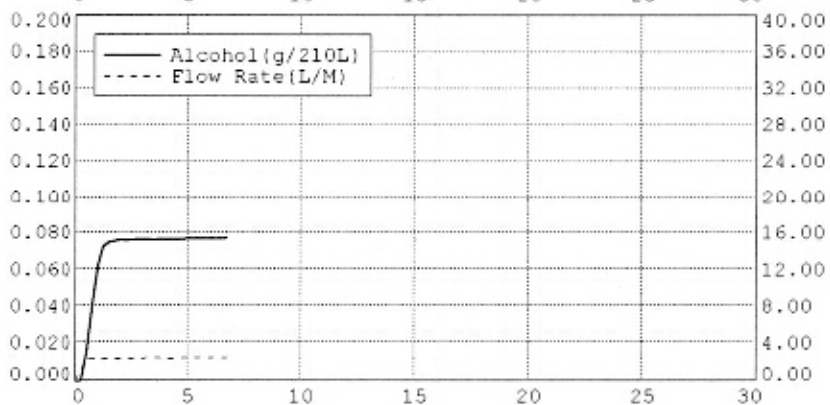
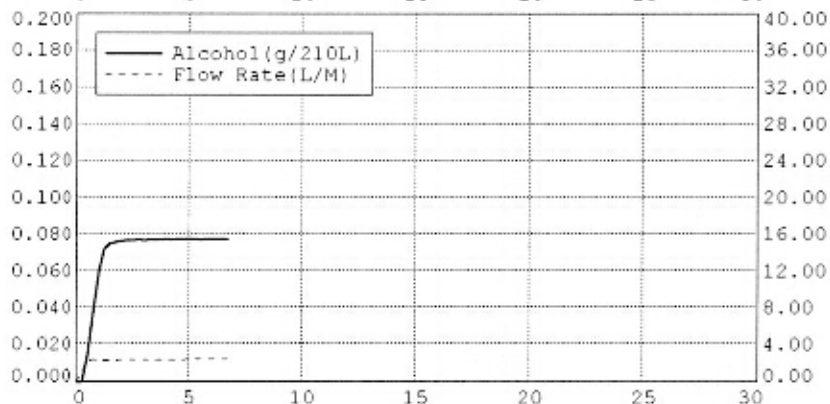
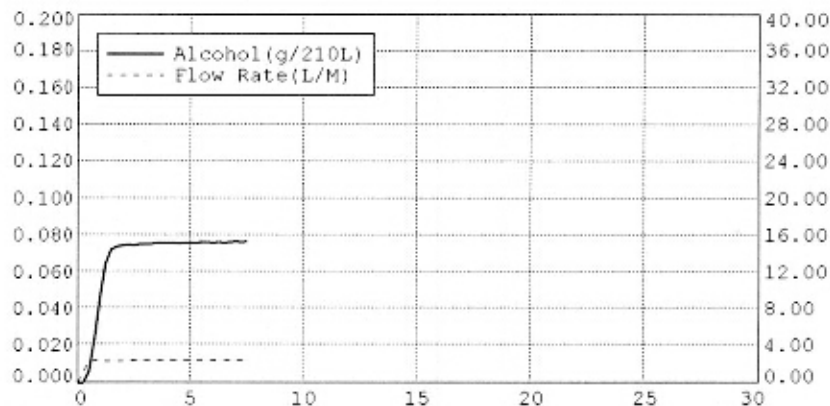
Date: 08/28/2012
Time: 12:52:31

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.97: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	12:54
INTERNAL STANDARD	VERIFIED	12:54
EXTERNAL STANDARD	0.077	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.078	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.078	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.077	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.077	12:59
BLANK TEST	0.000	13:00

Average = 0.0779
Std Dev = 0.0004



9/19/08 mb

LINEARITY CHECK: Control Test 4

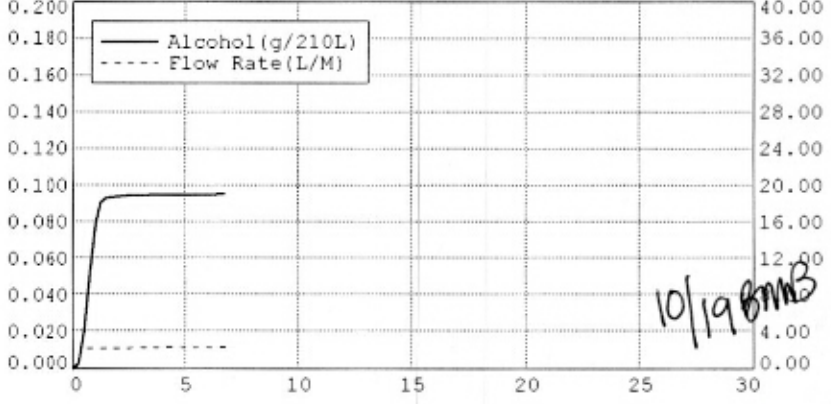
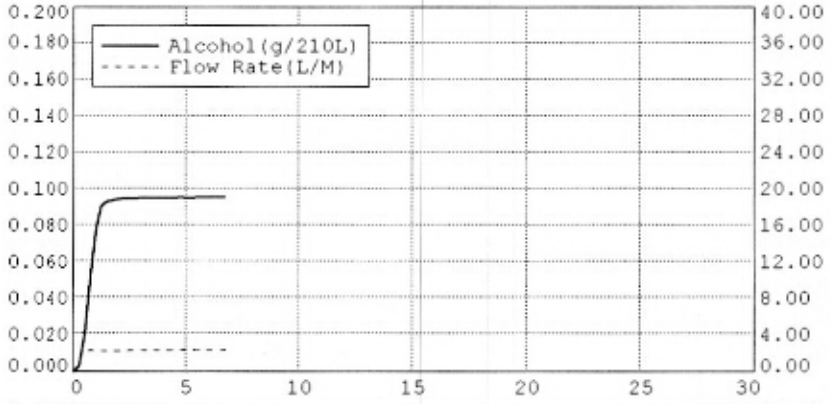
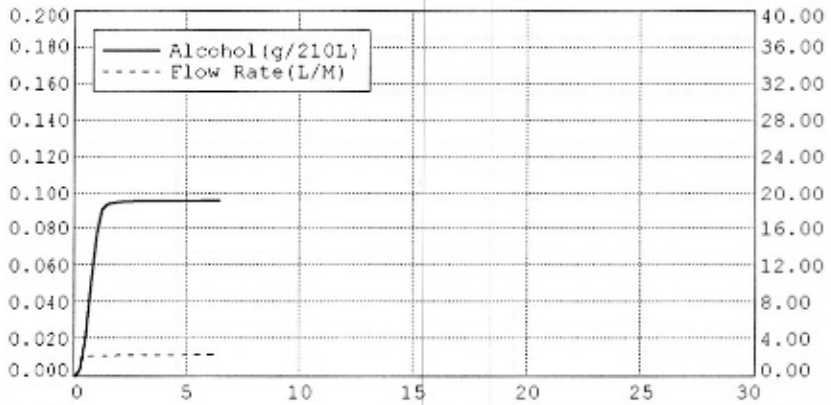
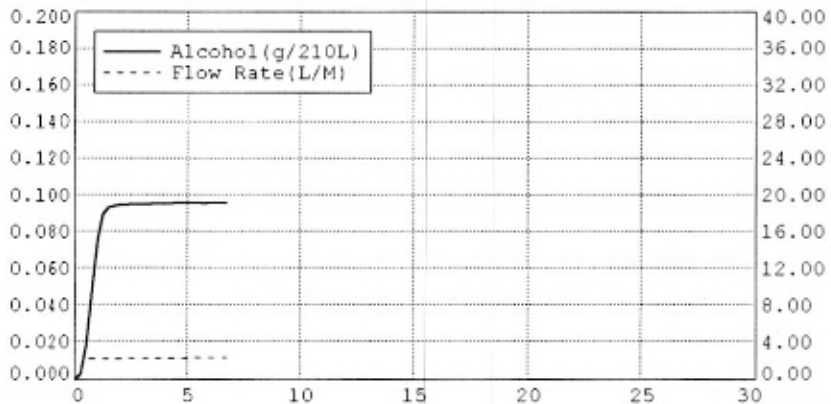
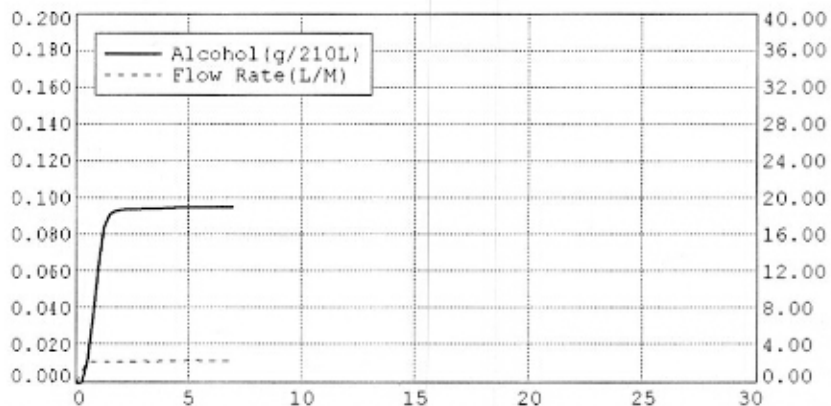
Alaska Department of Public Safety
 DATAMASTER dmt: 100371

Date: 08/28/2012
 Time: 13:03:45

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AT 29.97: 0.100
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:04
INTERNAL STANDARD	VERIFIED	13:04
EXTERNAL STANDARD	0.096	13:05
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.096	13:06
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.096	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.096	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.095	13:09
BLANK TEST	0.000	13:10

Average = 0.0962
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

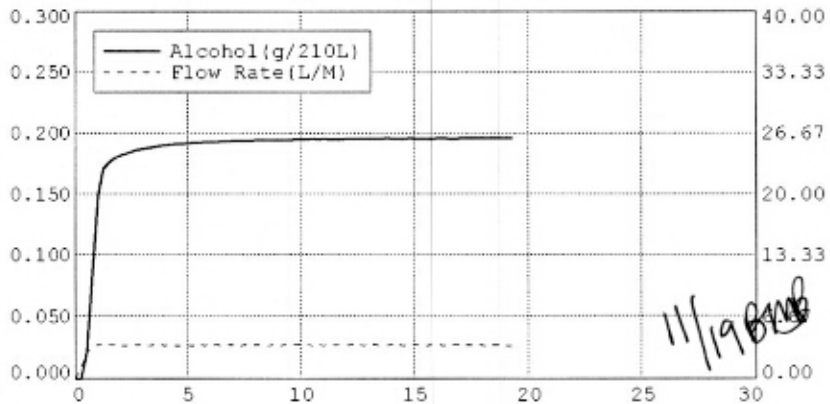
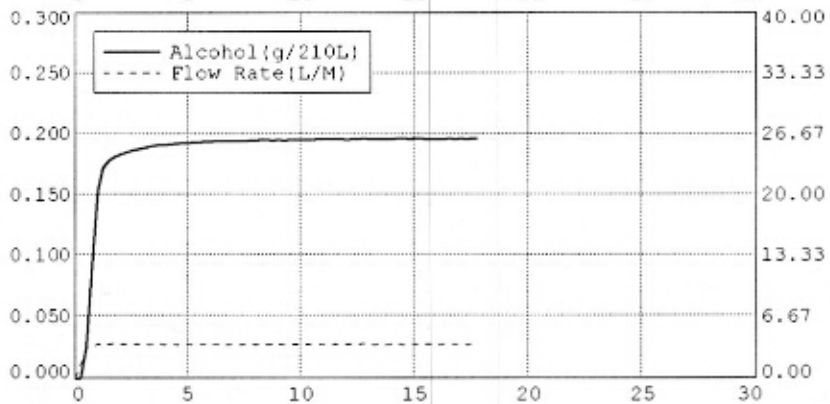
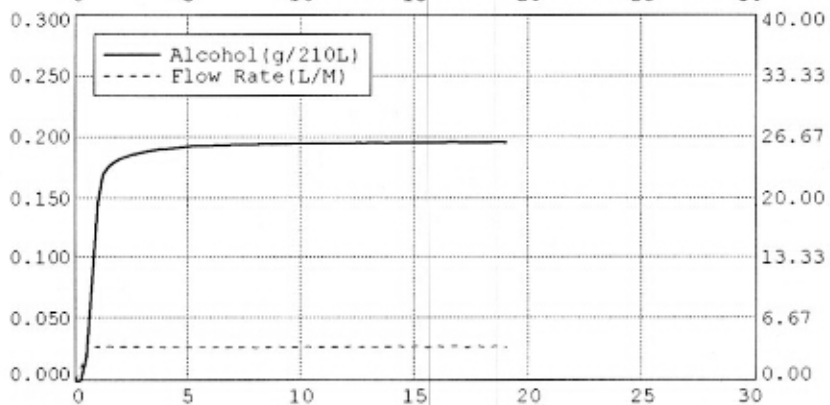
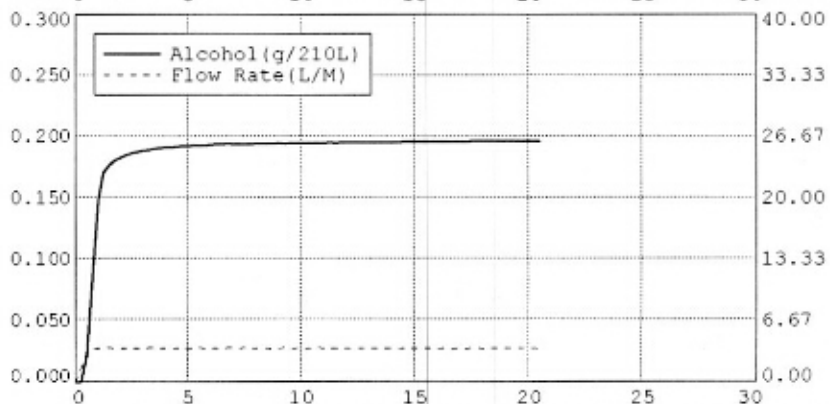
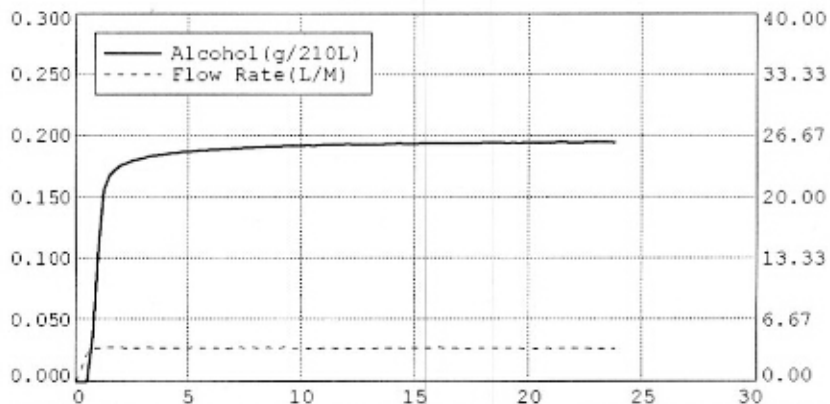
Alaska Department of Public Safety
 DATAMASTER dmt: 100371

Date: 08/28/2012
 Time: 13:20:31

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 11120
 EXPIRATION: 07/19/2013

BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:21
EXTERNAL STANDARD	0.195	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.197	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.197	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.197	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.197	13:27
BLANK TEST	0.000	13:28

Average = 0.1969
 Std Dev = 0.0006



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100371

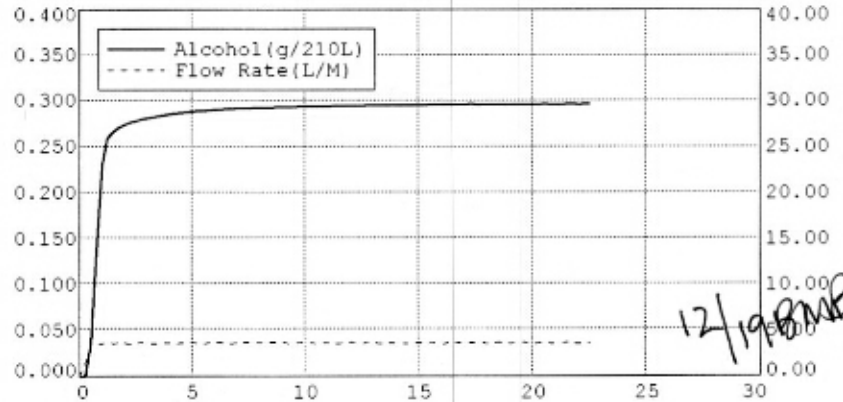
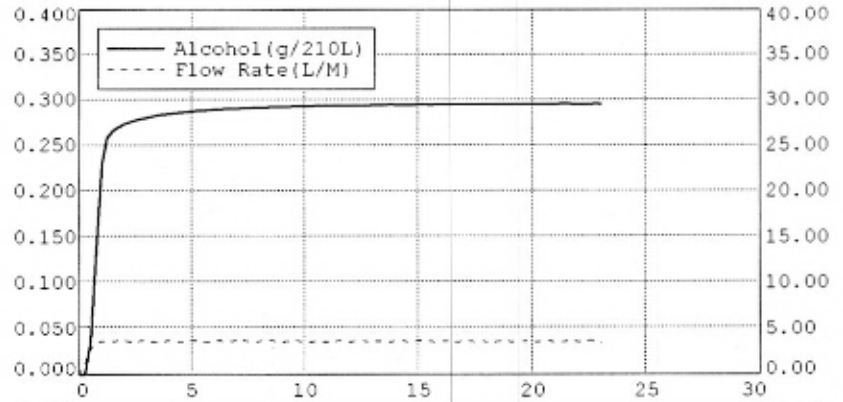
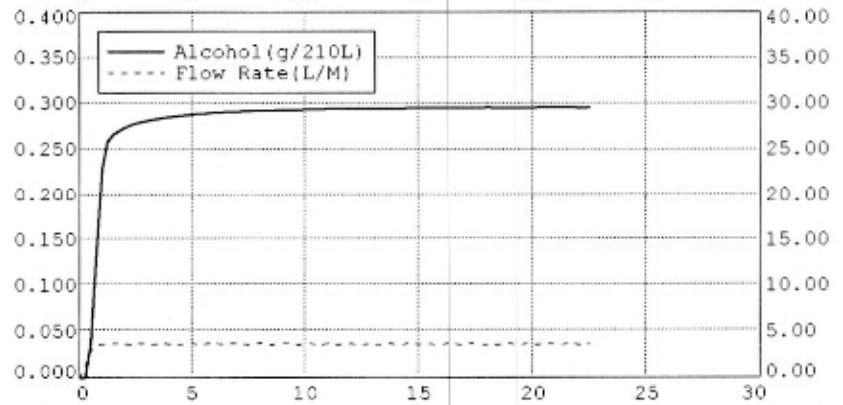
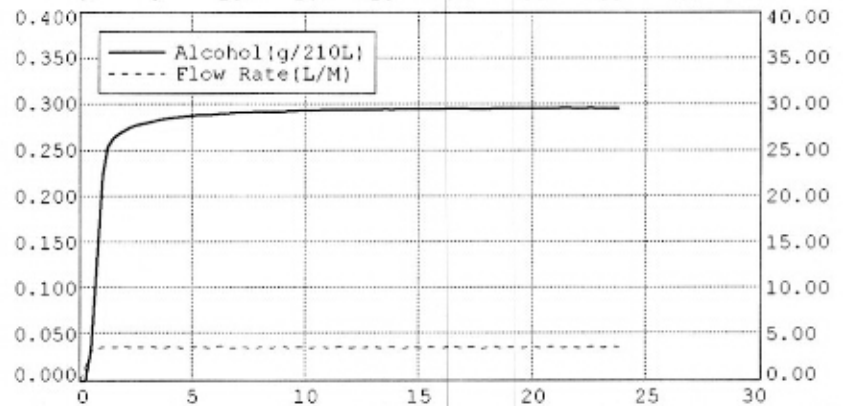
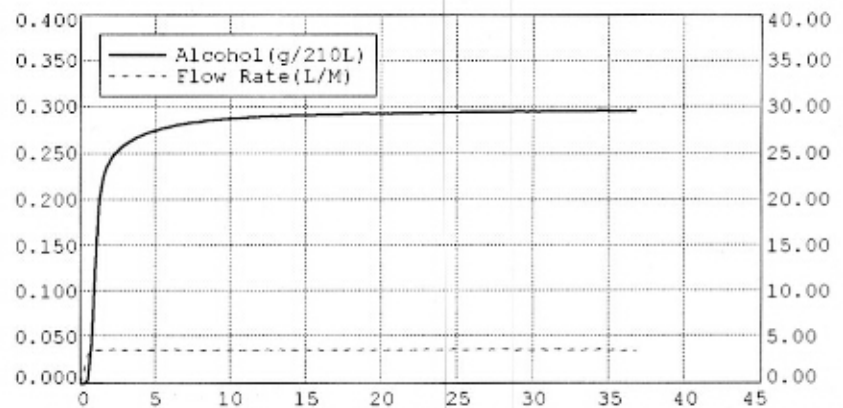
Date: 08/28/2012
Time: 13:31:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 11110
EXPIRATION: 07/13/2013

BLANK TEST	0.000	13:32
INTERNAL STANDARD	VERIFIED	13:33
EXTERNAL STANDARD	0.297	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.297	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.296	13:36
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.296	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.297	13:39
BLANK TEST	0.000	13:40

Average = 0.2968
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100371

Date: 08/28/2012
 Time: 13:46:34

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

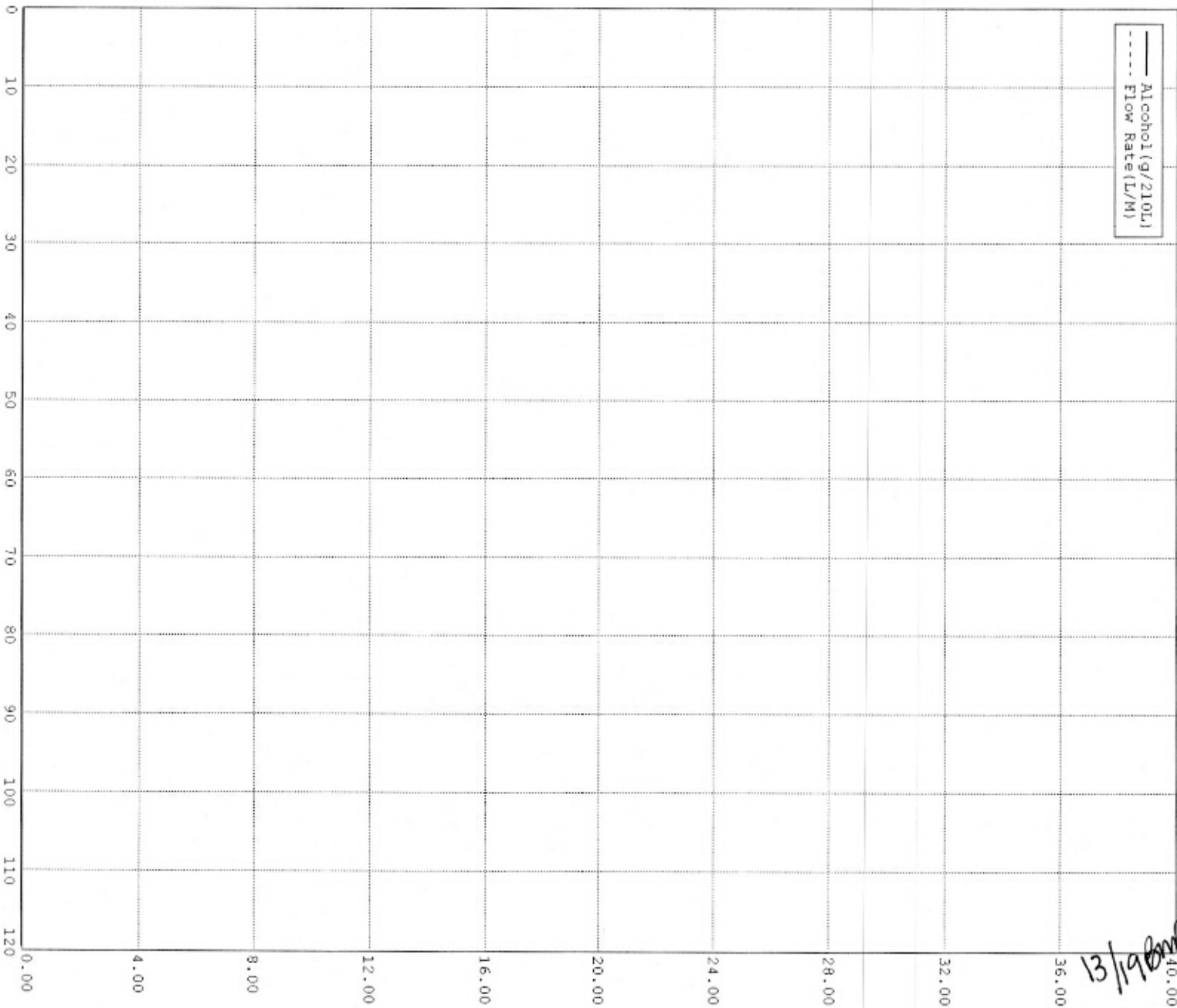
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.97: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:47
BLANK TEST	0.000	13:48
INTERNAL STANDARD	VERIFIED	13:48
EXTERNAL STANDARD	0.077	13:48
BLANK TEST	0.000	13:49
SUBJECT SAMPLE	INCOMPLETE	13:51

BBMB



13/19 *BBMB*

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 08/28/2012
Time: 14:19:58

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

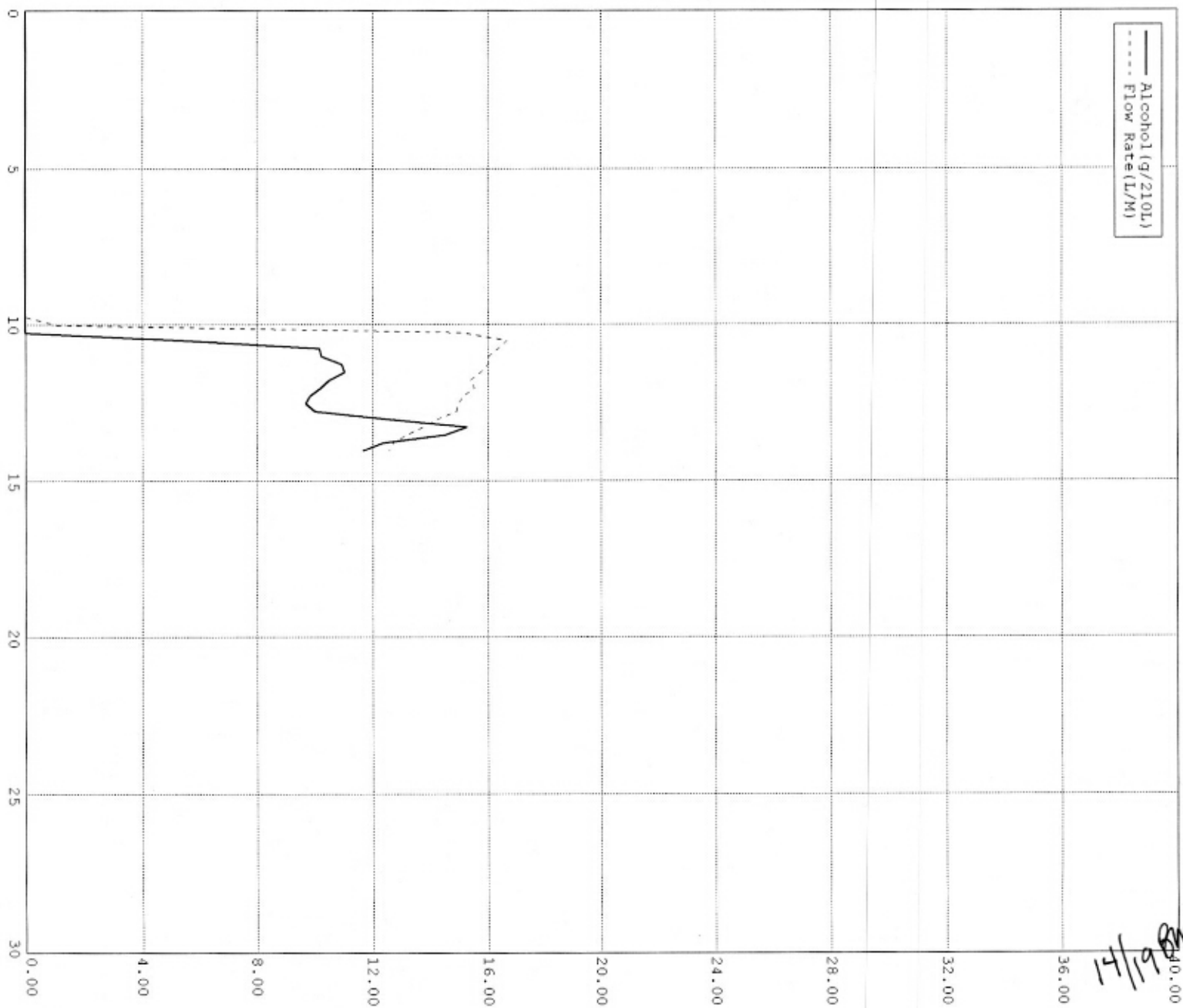
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.97: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:21
BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:21
EXTERNAL STANDARD	0.078	14:22
BLANK TEST	0.000	14:22
SUBJECT SAMPLE	INVALID	14:23

BBMB



14/19/12 BBMB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100371

Date: 08/28/2012
 Time: 13:56:40

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

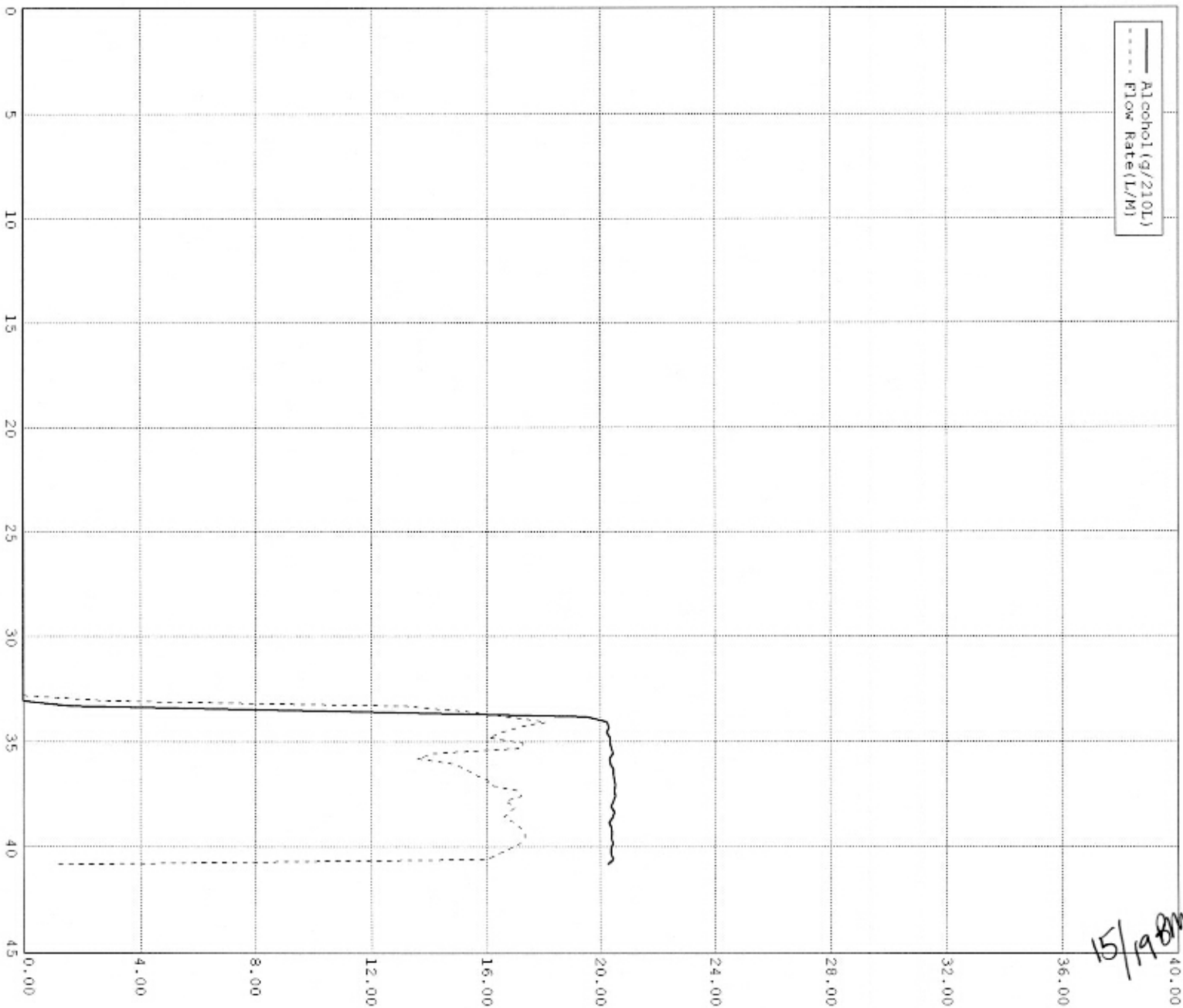
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 INTERFERENCE
 CASE/REPORT: ETOH AND ACETONE
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.96: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:57
BLANK TEST	0.000	13:58
INTERNAL STANDARD	VERIFIED	13:59
Xd = 0.077 (1.13%)		
EXTERNAL STANDARD	0.078	13:58
X[1] = 0.0781 (-0.0014) (0.0036)		
BLANK TEST	0.000	13:59
SUBJECT SAMPLE	INTERFERENCE	14:00
X[1] = 0.1026 (-0.0106) (0.0033)		

Brandi



15/19 Brandi

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100371

Date: 08/28/2012
 Time: 14:03:13

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

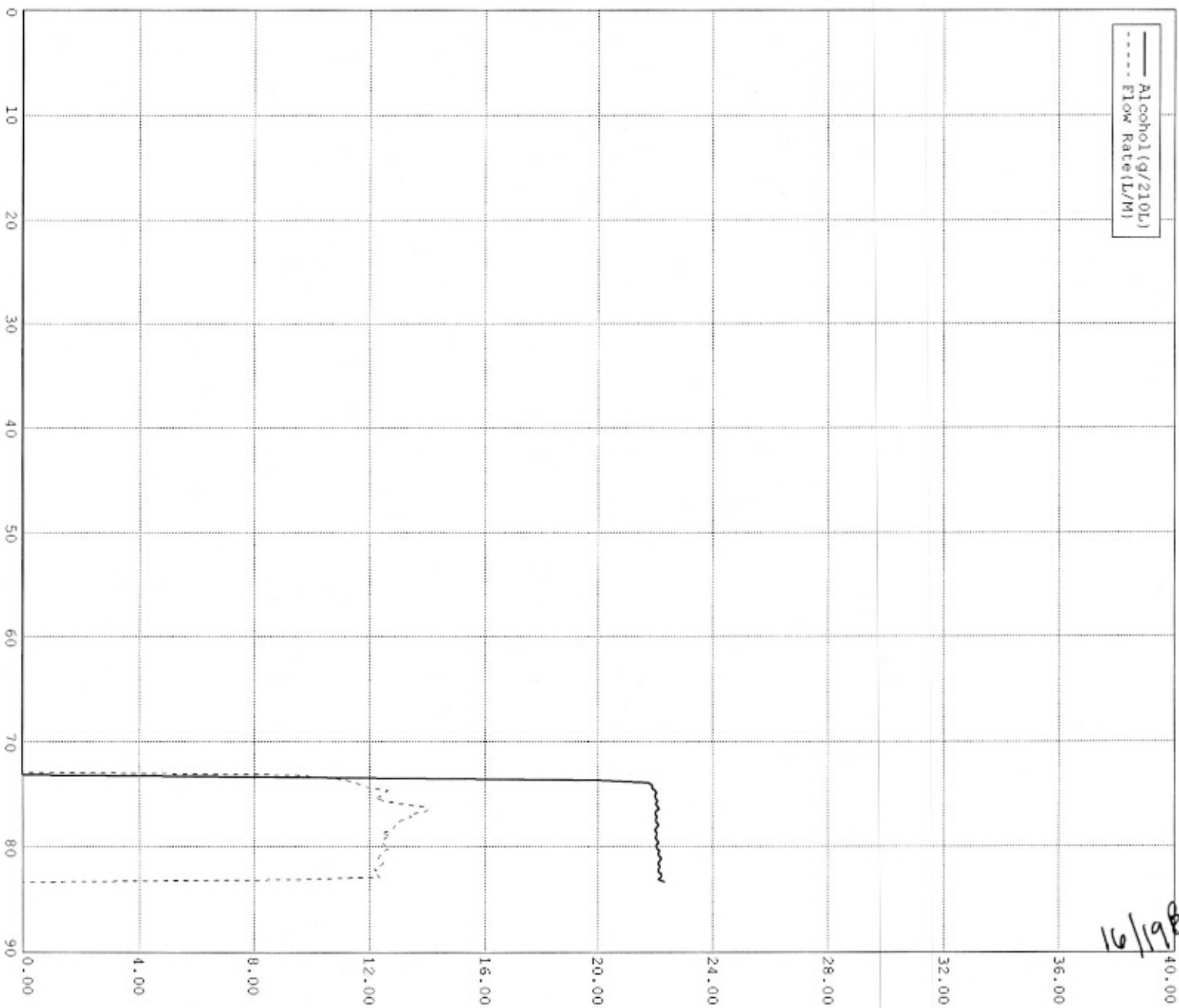
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 INTERFERENCE
 CASE/REPORT: ETOH AND IPA
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.97: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:04
BLANK TEST	0.000	14:04
INTERNAL STANDARD	VERIFIED	14:04
Xq = 0.078 (1.70%)		
EXTERNAL STANDARD	0.078	14:04
X[1] = 0.0785 (-0.0014) (0.0024)		
BLANK TEST	0.000	14:05
SUBJECT SAMPLE	INTERFERENCE	14:07
X[1] = 0.1115 (-0.0244) (0.0020)		

BMB



16/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100371

Date: 08/28/2012
 Time: 14:10:04

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

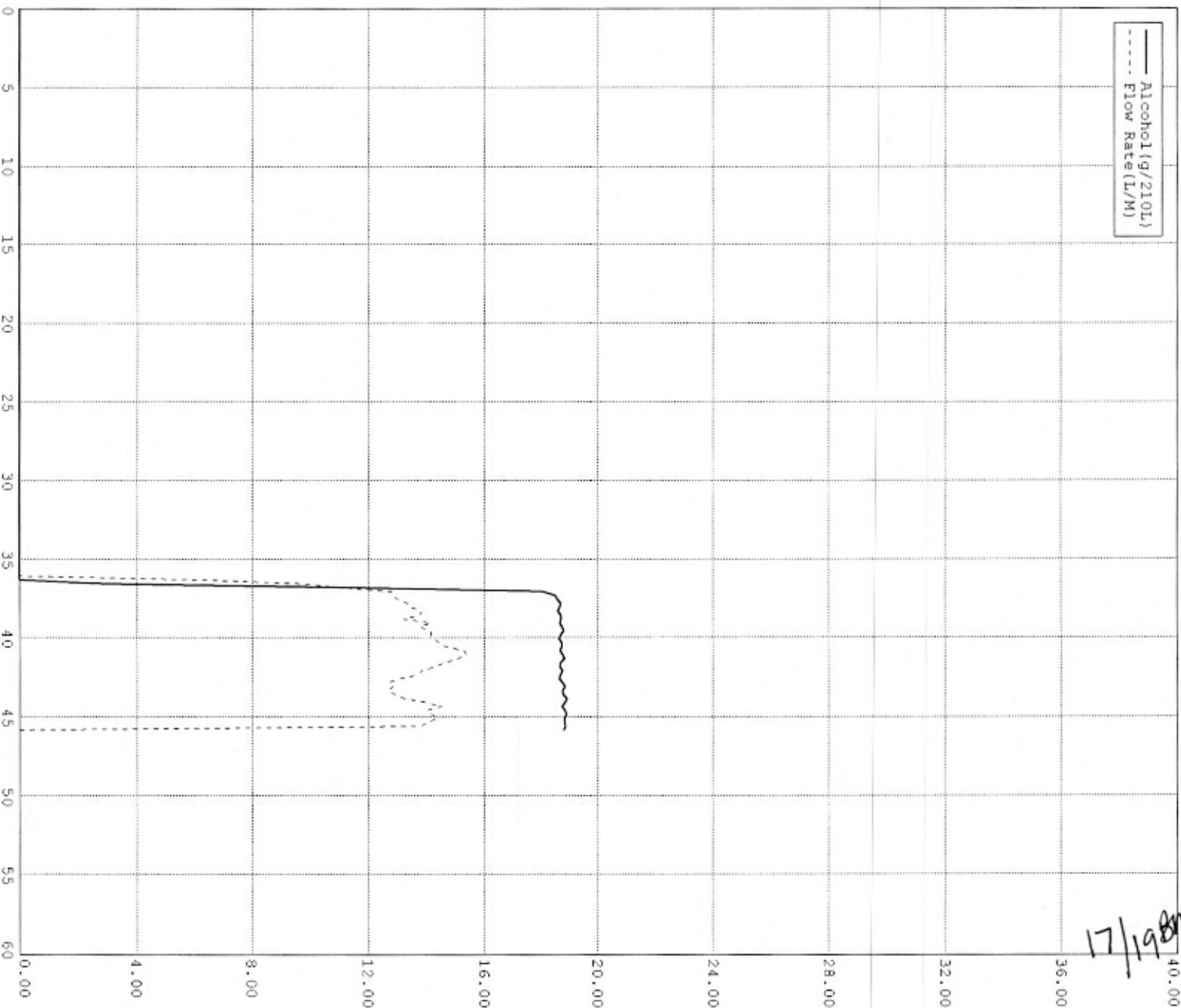
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 INTERFERENCE
 CASE/REPORT: NEG CONTROL
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.96: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:11
BLANK TEST	0.000	14:11
INTERNAL STANDARD	VERIFIED	14:11
Xq = 0.077 (0.57%)		
EXTERNAL STANDARD	0.077	14:11
X[1] = 0.0776 (-0.0015)	(0.0034)	
BLANK TEST	0.000	14:12
SUBJECT SAMPLE (Vol=2.14L)	0.094	14:13
X[1] = 0.0945 (0.0007)	(0.0008)	
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.078	14:14
X[1] = 0.0783 (-0.0005)	(0.0025)	
BLANK TEST	0.000	14:15

BMB



17/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 08/28/2012
Time: 14:25:52

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

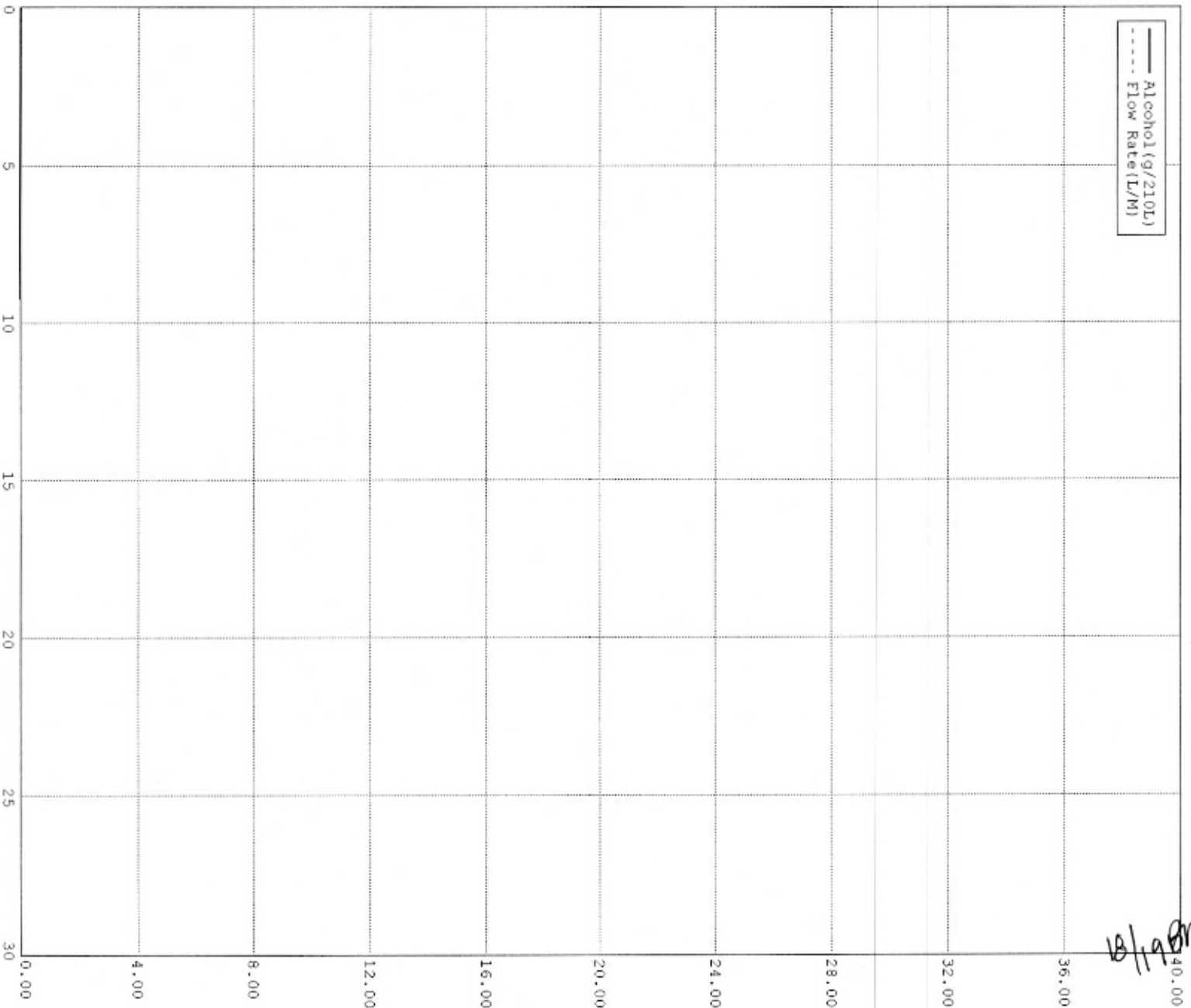
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.97: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:27
BLANK TEST	0.000	14:27
INTERNAL STANDARD	VERIFIED	14:27
EXTERNAL STANDARD	0.078	14:28
BLANK TEST	0.000	14:29

RFI DETECTED



18/11/19 BNB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 08/28/2012
Time: 14:41:21

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

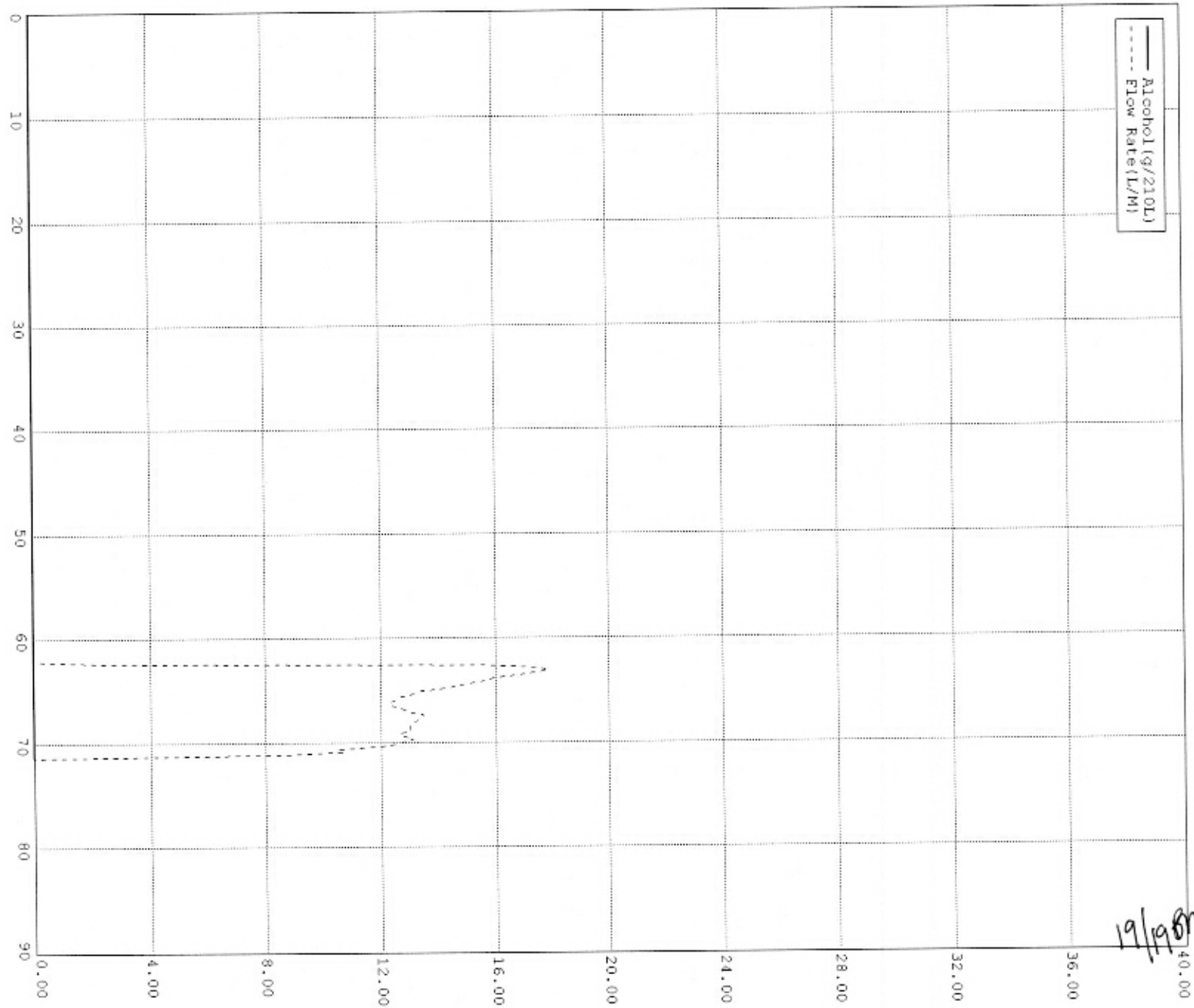
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:42
BLANK TEST	0.000	14:42
INTERNAL STANDARD	VERIFIED	14:42
EXTERNAL STANDARD	0.078	14:43
BLANK TEST	0.000	14:44
SUBJECT SAMPLE	0.000	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.079	14:46
BLANK TEST	0.000	14:47

BBMB



19/9/8MB

Final page for report

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3/7/2014