

	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Certification Form – DMCEF2011R1		
	Issuing Authority – Nita Bolz, Scientific Director		
Approval date: 03/10/11		Effective date: 03/10/11	Archive date: Active

DataMaster DMT Certification Form

Instrument # 100344Analyst Brandi BarnettDate 3/24/11

1. Diagnostic Test (attached)
2. Voltage Checks
 - a. Adjust voltages, if needed ☒
 - i. Lamp
 - ii. Bias
 - iii. Cooler
 - iv. Chopper Frequency
 - b. Set RFI ☒
 - c. Adjust barometer reading, if needed ☒
 - d. Adjust volume setting, if needed ☒
 - e. Print Technician Screen (attached)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1500 mL ☒
5. Dry Gas Linearity Test (attached)
 - a. Levels Used ☒
 - i. 0.020g/210L Mnf TLMD Lot 02811020A1 Exp 02/01/2013
 - ii. 0.040g/210L Mnf TLMD Lot 02811040A2 Exp 02/01/2013
 - iii. 0.080g/210L Mnf TLMD Lot 02511080A3 Exp 02/01/2013
 - iv. 0.100g/210L Mnf TLMD Lot 05611100A2 Exp 3/1/2013
 - v. 0.200g/210L Mnf TLMD Lot 07411200A2 Exp 3/1/2013
 - vi. 0.300g/210L Mnf TLMD Lot 07411300A1 Exp 3/1/2013
6. Functional Tests (attached)
 - a. Incomplete ☒
 - b. Invalid ☒
 - c. Interference ☒
 - i. Acetone - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/2011
 1. Simulator Calibration Date 10/18/2010 SN DR6267
 - ii. Isopropanol - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/2011
 1. Simulator Calibration Date 8/4/2010 SN SD1202
 - d. RFI ☒
7. Calibrate Stylus ☒
8. Verify card reader is functional ☒
9. Upload ☒
10. Reset Options ☒
11. Non-Drinking Subject Test (attached)

1/18/11

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100344

Date: 03/24/2011
Time: 10:50:59

VERSIONS

DMT: 1.01
PIC: 3.02
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 46.2°C	PASSED

PUMP INFO

Flow Rate = 5.316 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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2/10/2011
B

Technician Screen

DATAMASTER dmt: 100344

Date: 03/24/2011

Time: 11:02 AM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 45.3°C

Current Barometer 29.5 in

Volume (Ltr) 1.57

Settings

Lamp: 2.15 V

Bias: 80 V

Cooler: 1.74 V

Chopper: 537 Hz

Voltages (V)

Flow: 1.08 V

Detector: 0.555 V

3/25/11
B. Barnett

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100344

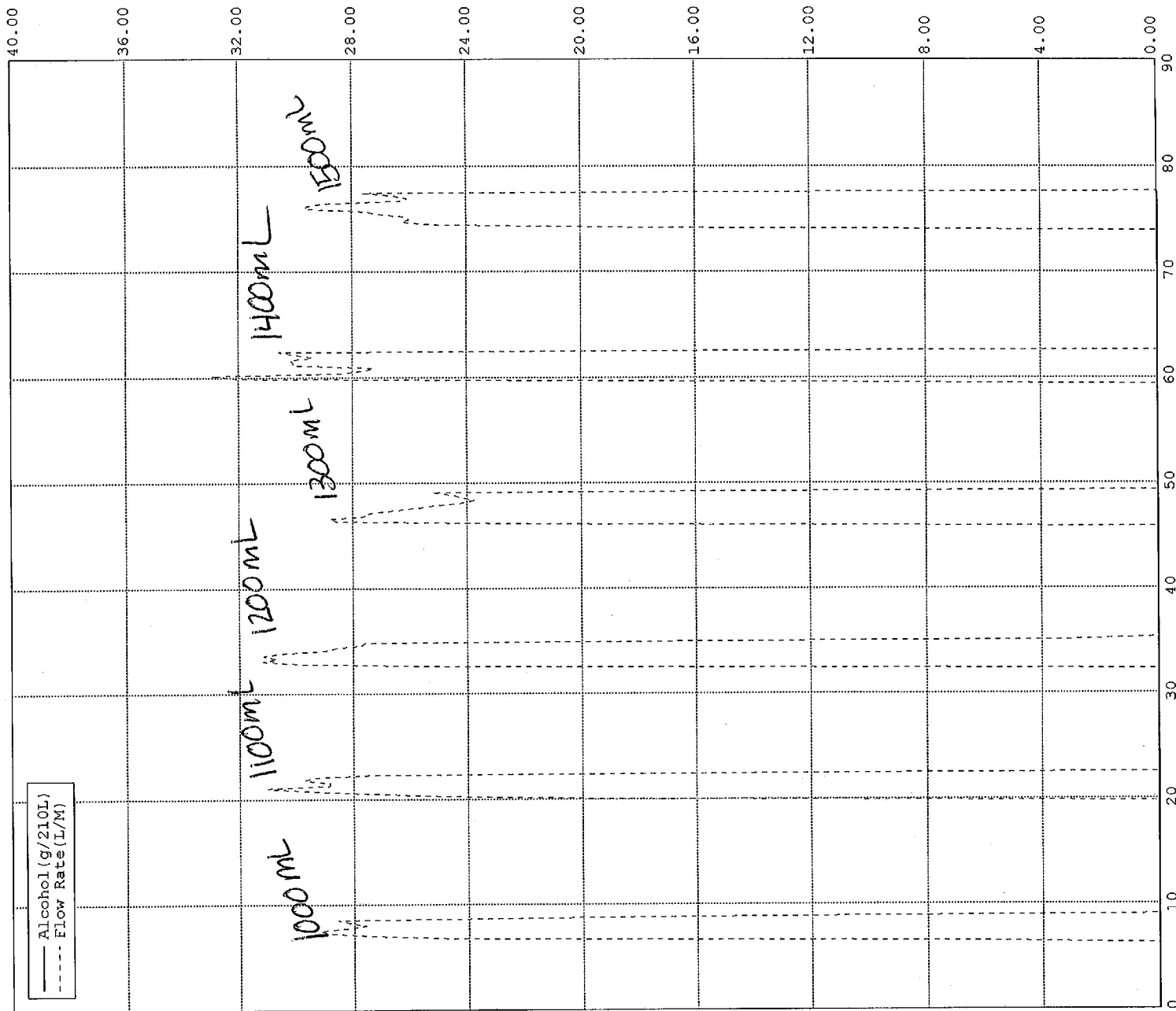
Date: 03/22/2011
Time: 11:59:47

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 9380
EXPIRATION: 12/17/2011

Ca = 0.1000
CAL = 0.994117 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0039 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.1044 0.0500 <= Xq < 0.2000
a21 = 1.098703 1.050 <= a21 < 1.300
a31 = 0.581935 0.300 <= a31 < 0.800

4/1/08
BIB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100344

Date: 03/24/2011
Time: 11:05:40

SUBJECT NAME:

TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

DEPT/AGENCY:

XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

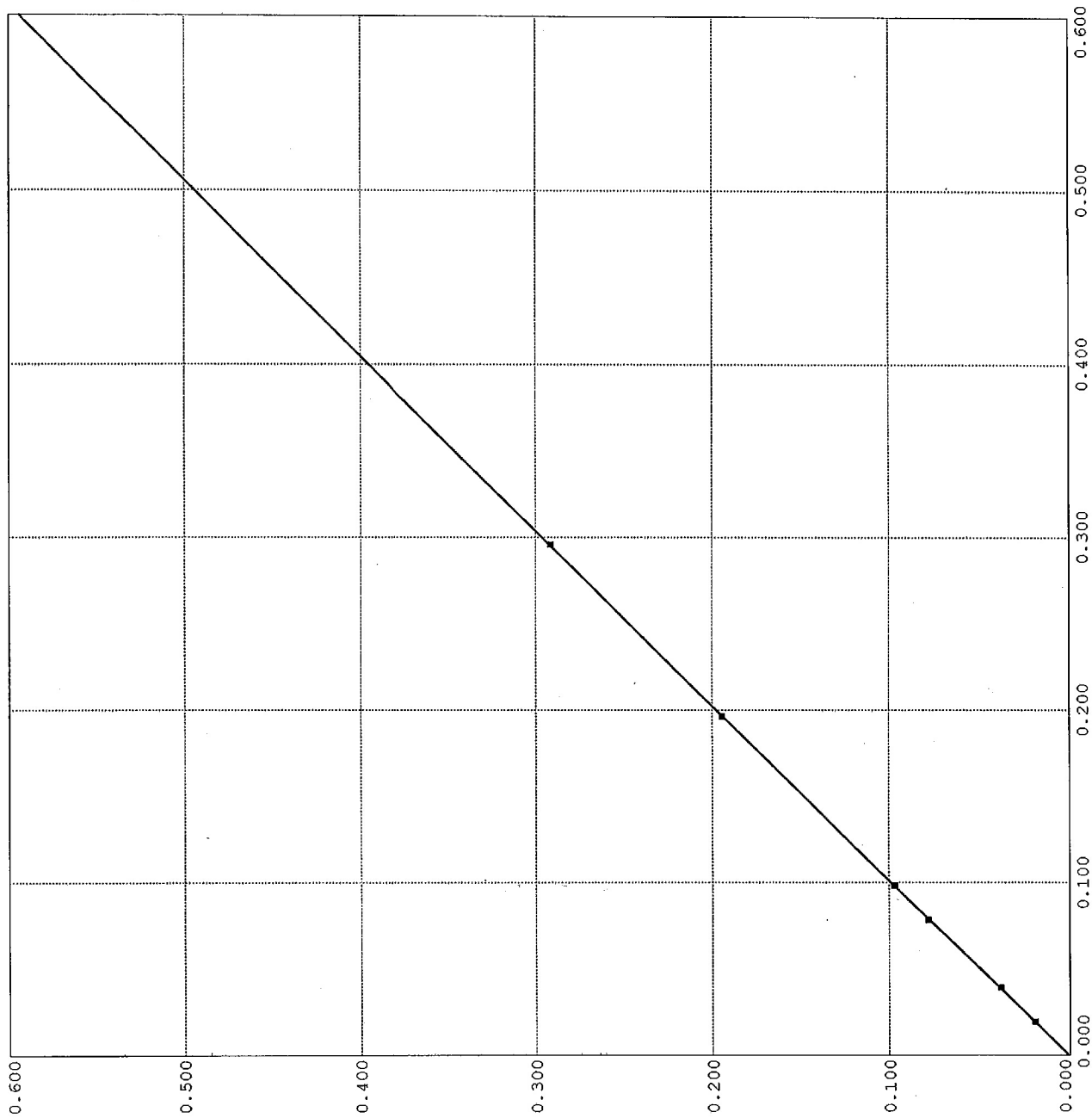
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.50: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	11:06
BLANK TEST	0.000	11:06
INTERNAL STANDARD	VERIFIED	11:06
EXTERNAL STANDARD	0.079	11:07
BLANK TEST	0.000	11:08
SUBJECT SAMPLE	0.000	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.079	11:10
BLANK TEST	0.000	11:11

Handwritten signature

5/18/2011



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100344

Date: 03/24/2011
 Time: 11:27:42

SUPERVISOR NAME:
 BRANDI M BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.039	0.0390	0.0000
0.078	0.0790	0.0000
0.098	0.0978	0.0008
0.196	0.1954	0.0011
0.295	0.2924	0.0023

SLOPE = 0.988485
 R^2 = 0.999986

DBB

6/10/2011

LINEARITY CHECK: Control Test 1

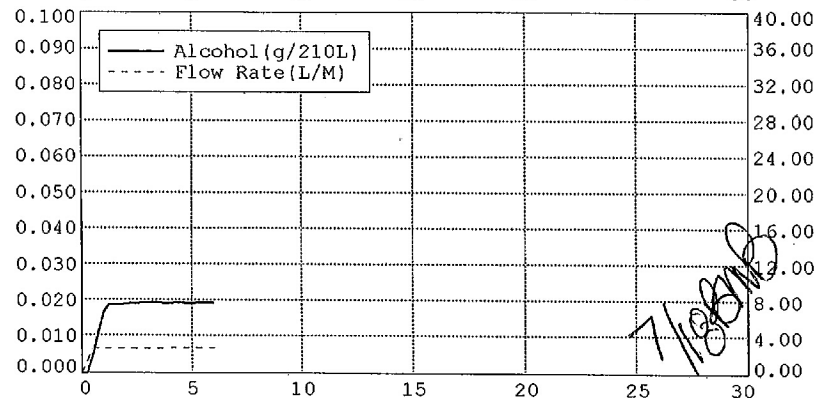
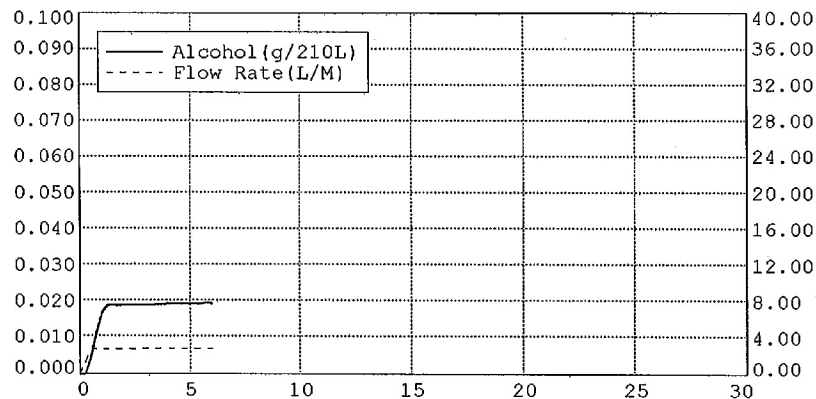
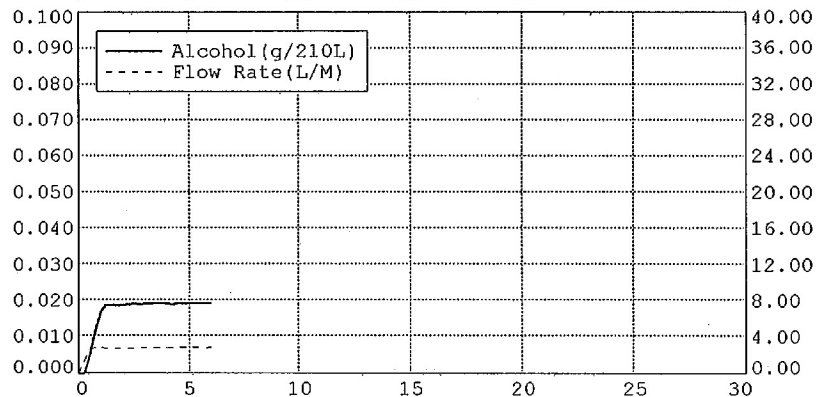
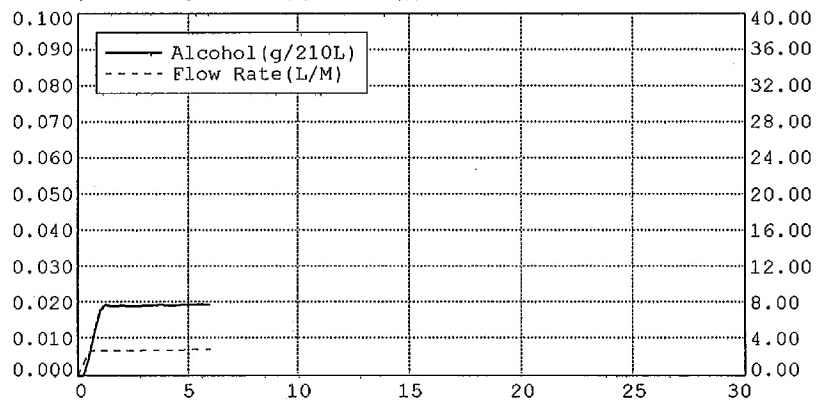
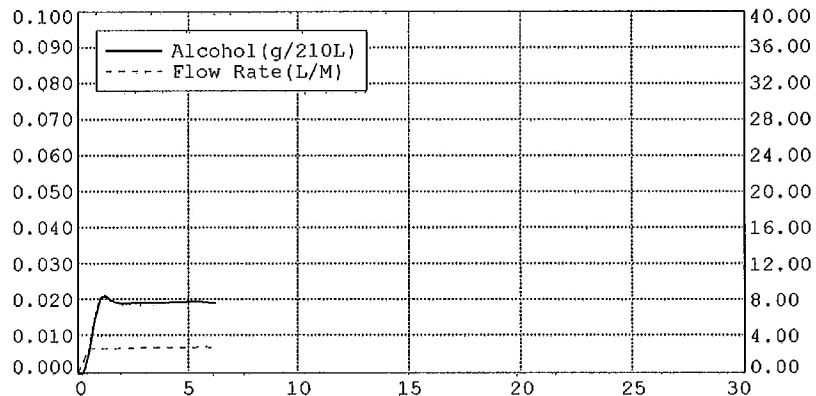
Alaska Department of Public Safety
DATAMASTER dmt: 100344

Date: 03/24/2011
Time: 11:27:44

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.49: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:29
INTERNAL STANDARD	VERIFIED	11:29
EXTERNAL STANDARD	0.020	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.020	11:30
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.020	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.020	11:32
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.020	11:33
BLANK TEST	0.000	11:34

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

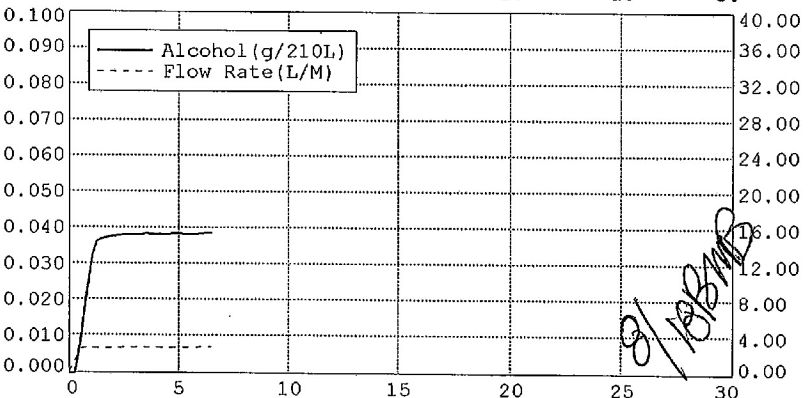
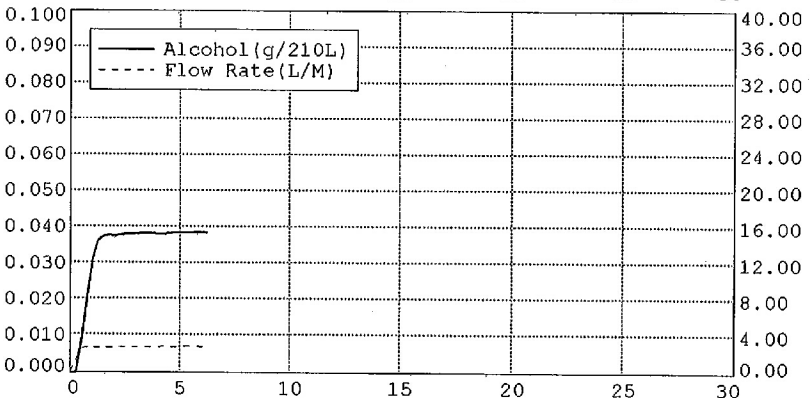
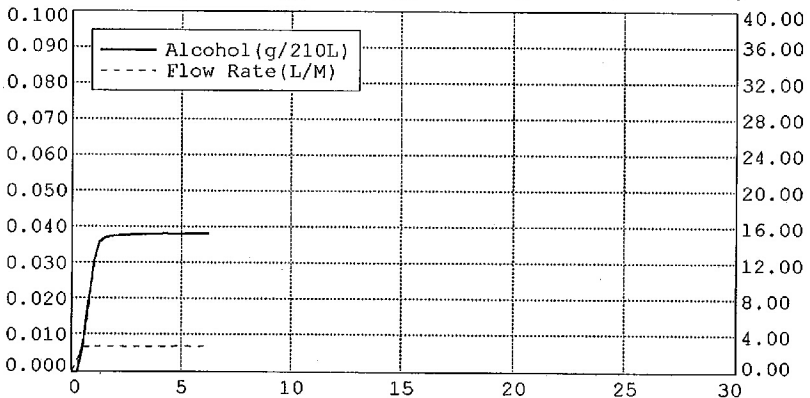
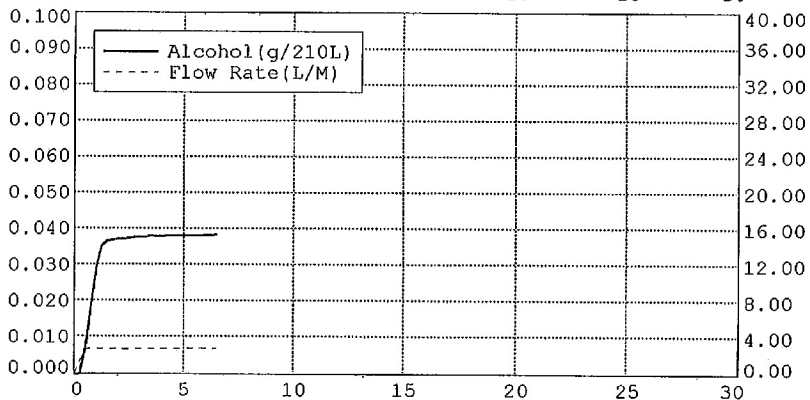
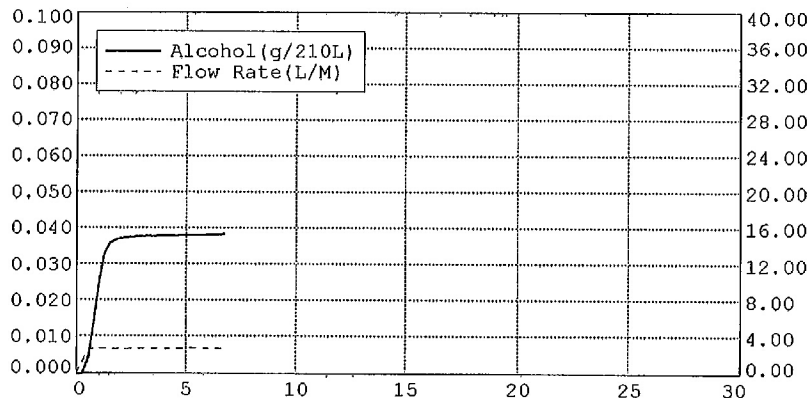
Alaska Department of Public Safety
DATAMASTER dmt: 100344

Date: 03/24/2011
Time: 11:38:34

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.49: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:40
INTERNAL STANDARD	VERIFIED	11:40
EXTERNAL STANDARD	0.039	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.039	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.039	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.039	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.039	11:45
BLANK TEST	0.000	11:46

Average = 0.0390
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

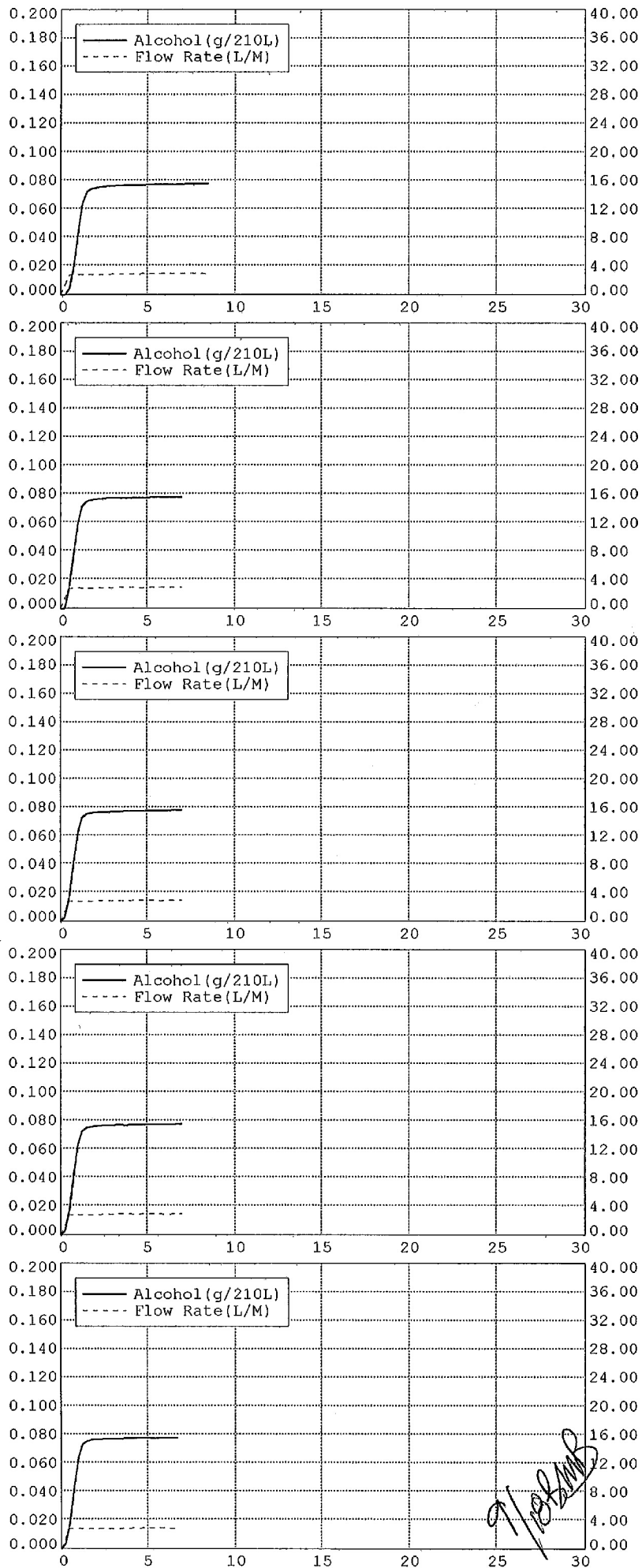
Alaska Department of Public Safety
DATAMASTER dmt: 100344

Date: 03/24/2011
Time: 12:57:50

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.47: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:58
INTERNAL STANDARD	VERIFIED	12:59
EXTERNAL STANDARD	0.079	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.079	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.079	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.079	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.079	13:03
BLANK TEST	0.000	13:04

Average = 0.0790
Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100344

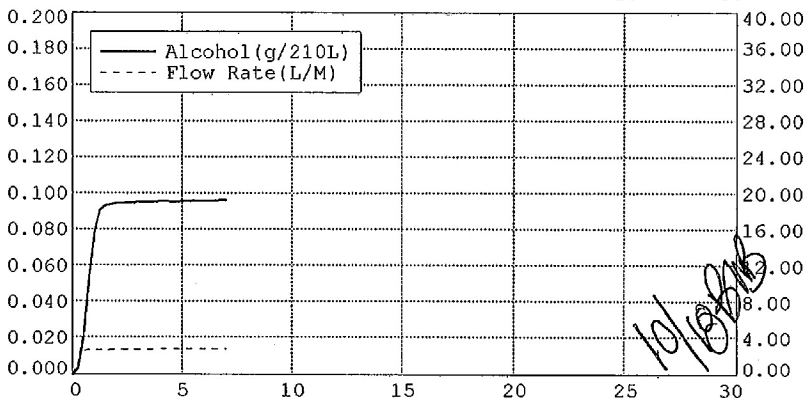
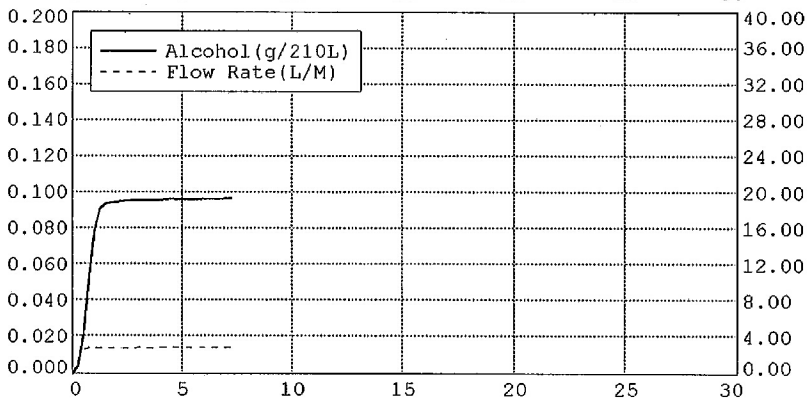
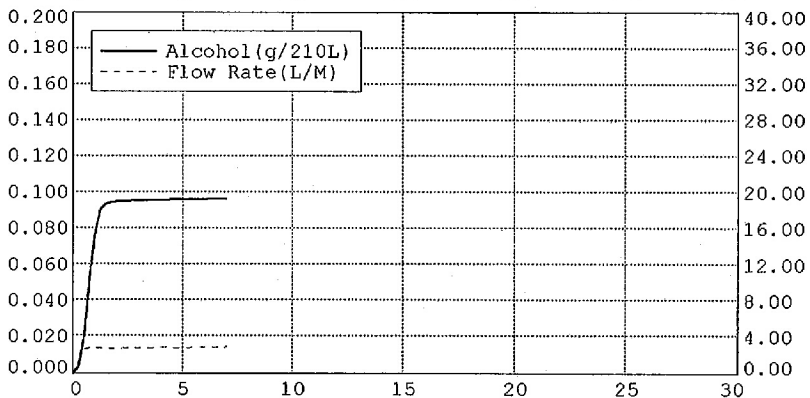
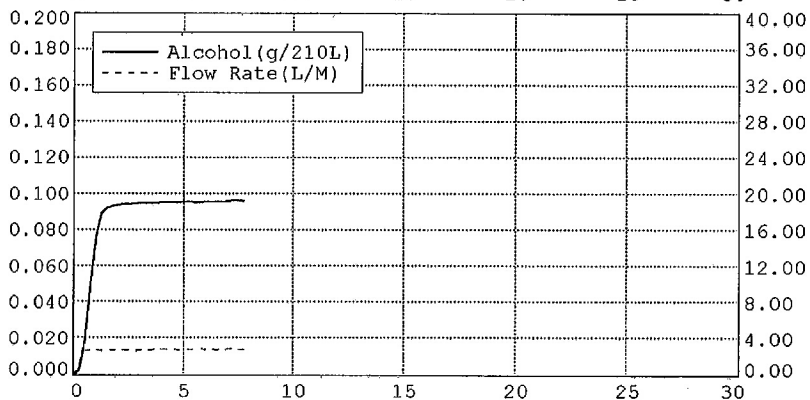
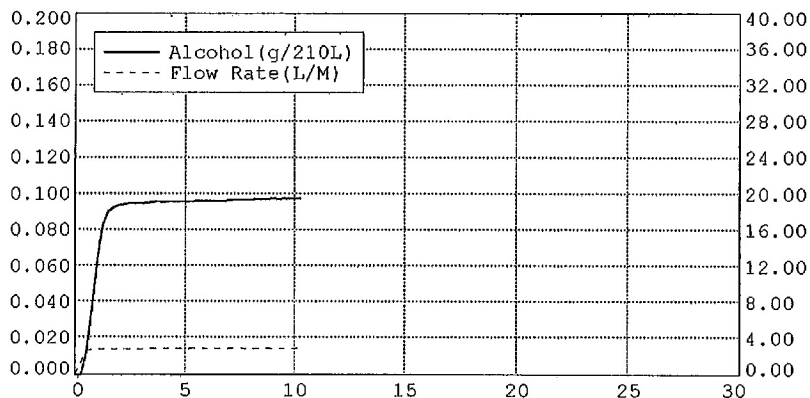
Date: 03/24/2011
Time: 13:09:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.46: 0.098
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:10
INTERNAL STANDARD	VERIFIED	13:10
EXTERNAL STANDARD	0.099	13:11
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.097	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.097	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.098	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.098	13:15
BLANK TEST	0.000	13:16

Average = 0.0978
Std Dev = 0.0008



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100344

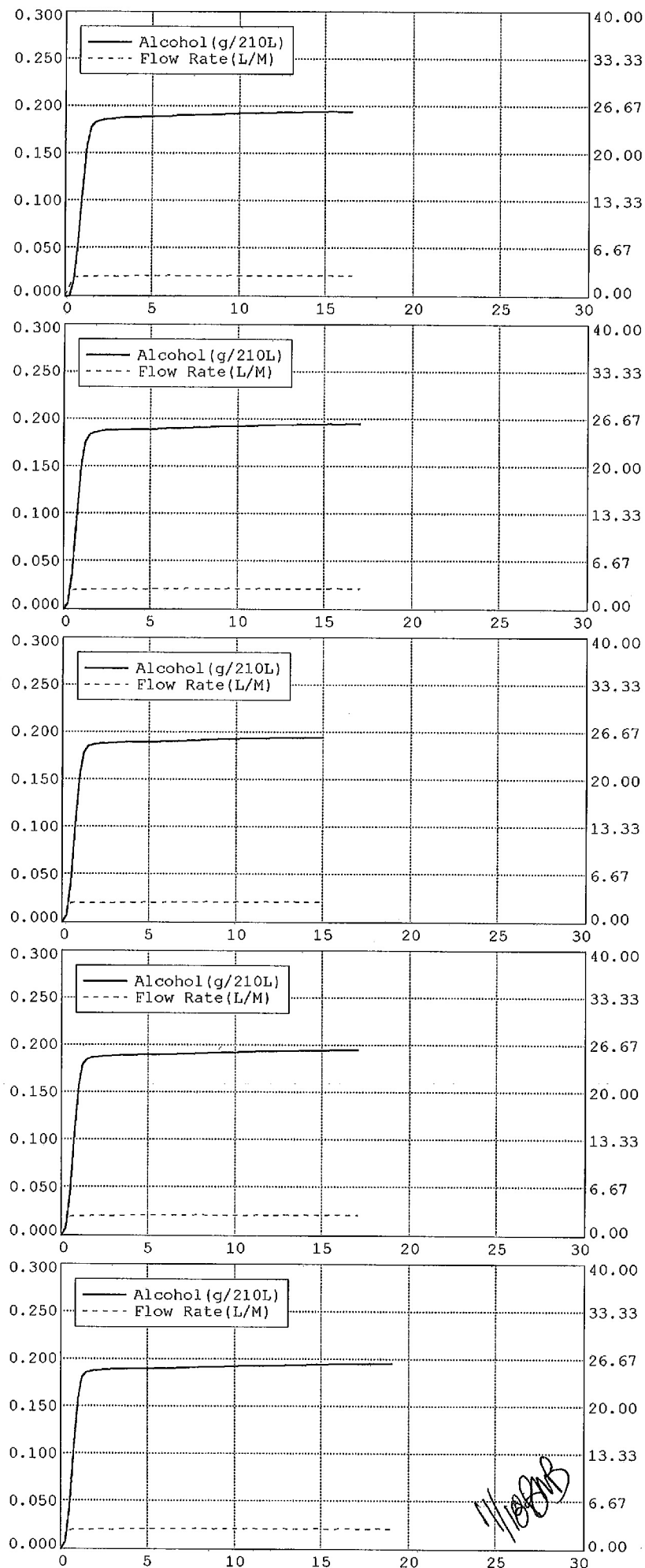
Date: 03/24/2011
Time: 13:20:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.46: 0.196
LOT #: 07411200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:21
EXTERNAL STANDARD	0.194	13:22
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.195	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.195	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.196	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.197	13:27
BLANK TEST	0.000	13:28

Average = 0.1954
Std Dev = 0.0011



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100344

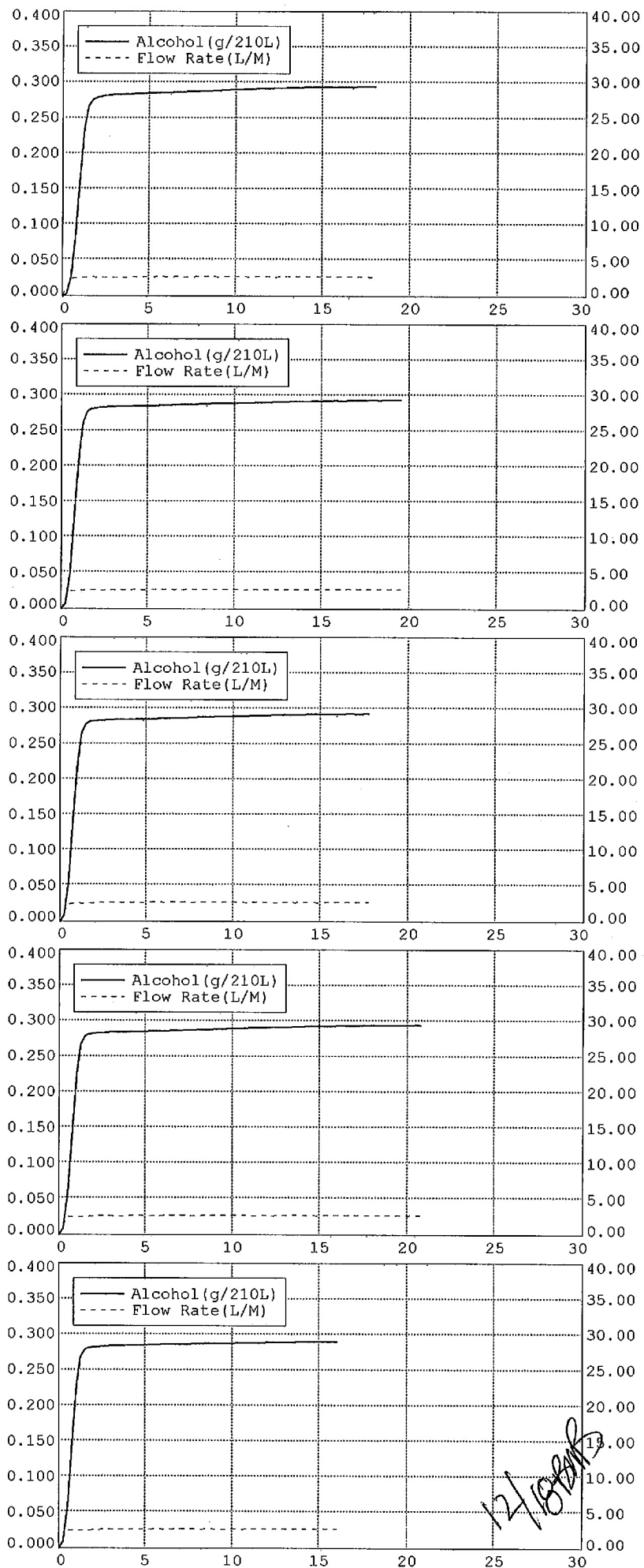
Date: 03/24/2011
Time: 13:32:47

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.45: 0.295
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:33
INTERNAL STANDARD	VERIFIED	13:33
EXTERNAL STANDARD	0.295	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.292	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.292	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.294	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.289	13:39
BLANK TEST	0.000	13:40

Average = 0.2924
Std Dev = 0.0023



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100344

Date: 03/24/2011
 Time: 14:01:03

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

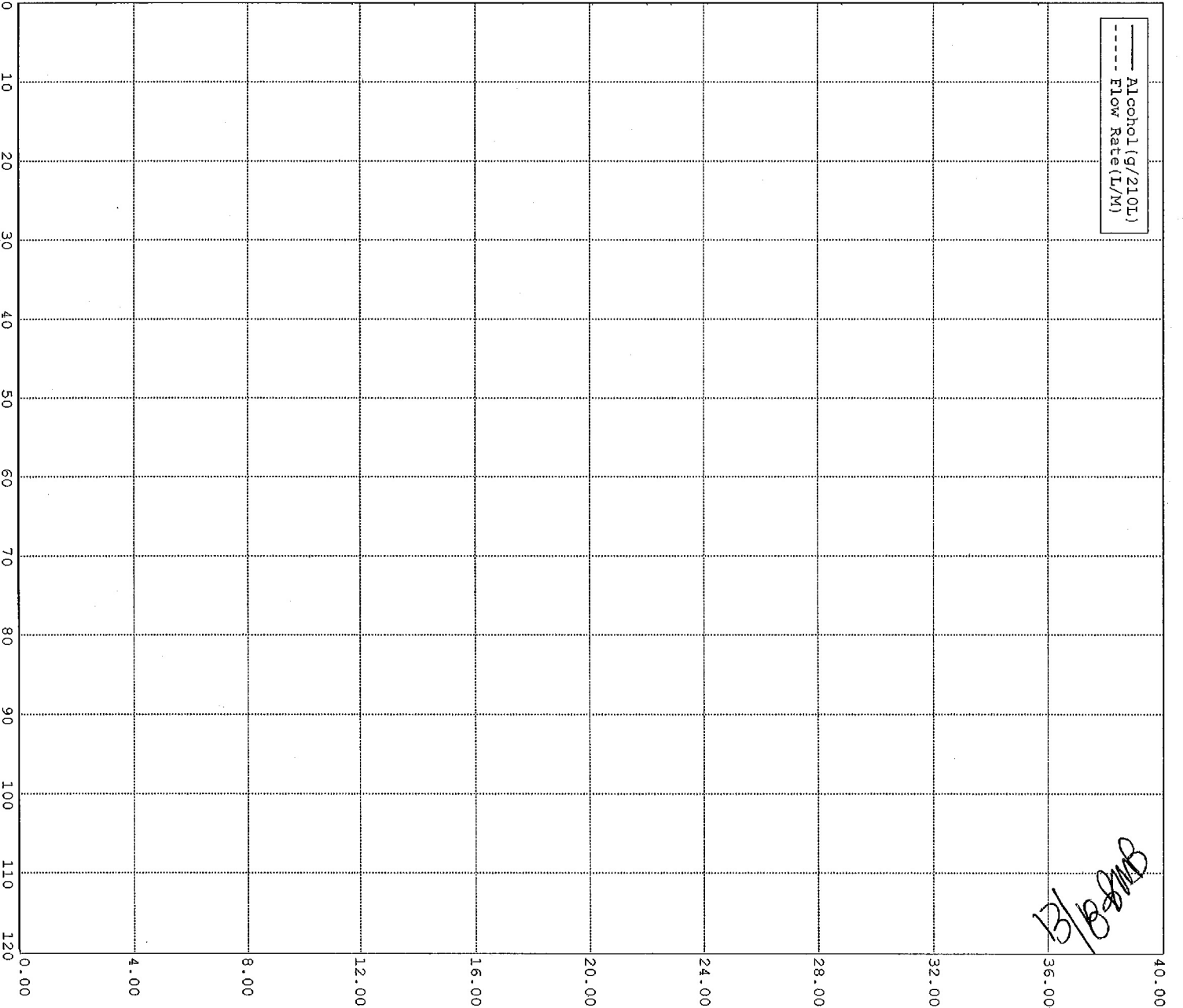
DEPT/AGENCY:
 XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.45: 0.078
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:02
BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.079	14:02
BLANK TEST	0.000	14:03
SUBJECT SAMPLE	INCOMPLETE	14:05

Handwritten signature/initials



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100344

Date: 03/24/2011

Time: 14:10:13

SUBJECT NAME:

TEST TEST

LICENSE #: INVALID

OPERATOR NAME:

KNOWN MOUTH ALCOHOL

OPERATOR'S #: XXXX

DEPT/AGENCY:

XXXX

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.45: 0.078

LOT #: 02511080A3

EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 14:11

0.000 14:11

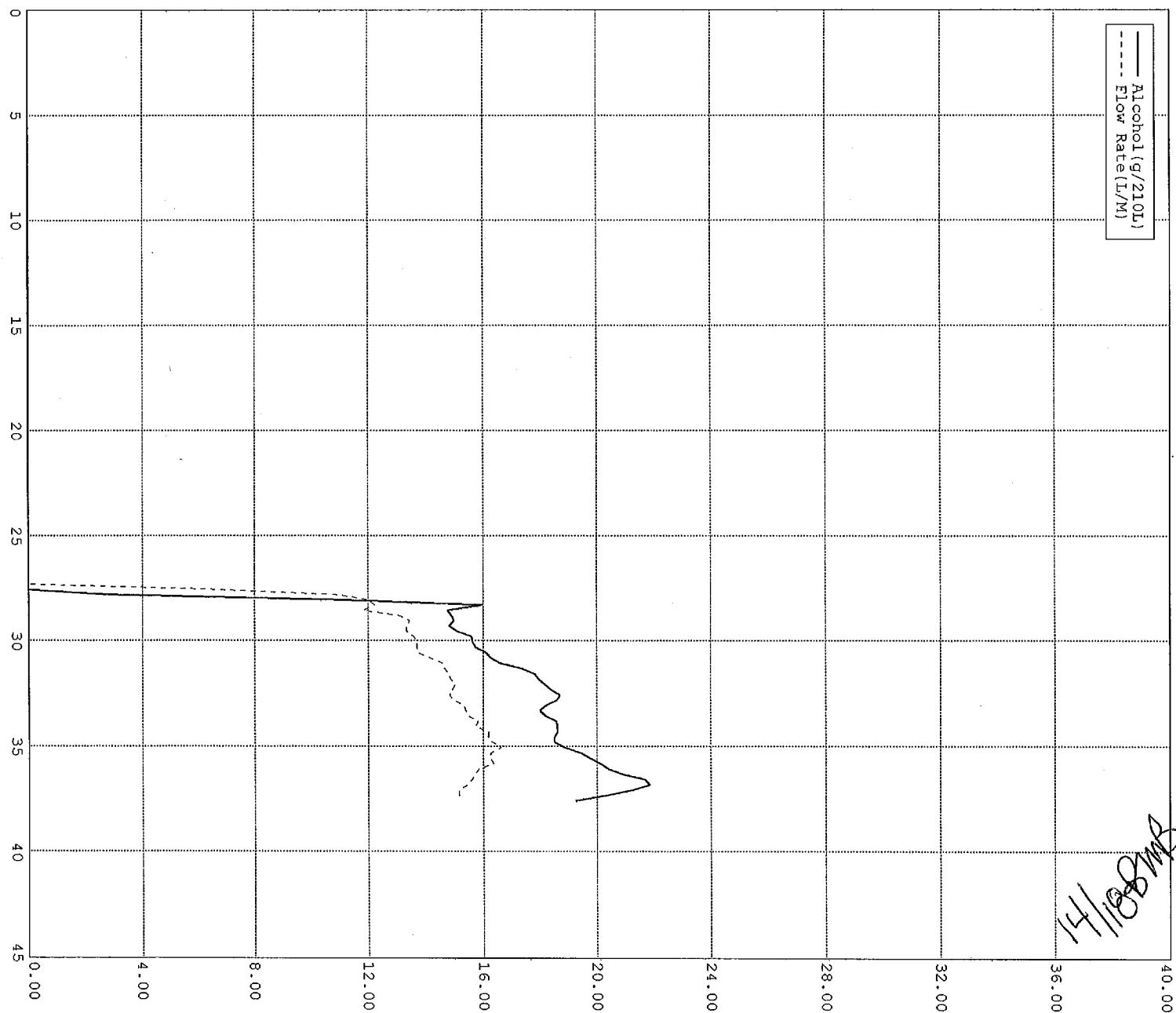
VERIFIED 14:12

0.079 14:12

0.000 14:13

Invalid 14:14

B/01B



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100344Date: 03/24/2011
Time: 14:19:28

SUBJECT NAME:

TEST TEST
LICENSE #: INTERFEREOPERATOR NAME:
ETHANOL AND ACETONE
OPERATOR'S #: XXXX

DEPT/AGENCY:

XXXX

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.45: 0.078

LOT #: 02511080A3

EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK

BLANK TEST

PASSED 14:20
0.000 14:20

INTERNAL STANDARD

VERIFIED 14:20
0.079 14:21

EXTERNAL STANDARD

0.000 14:22

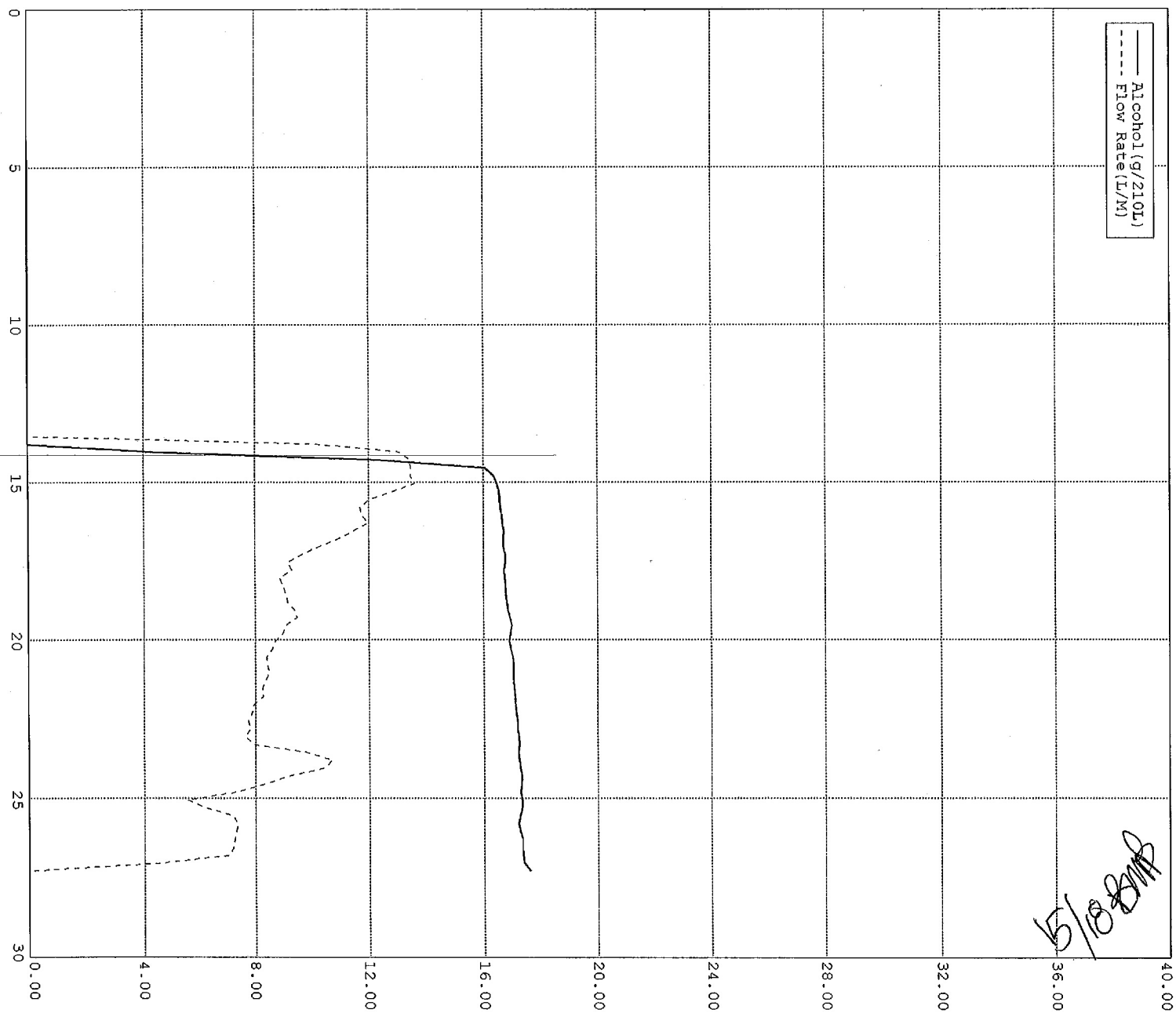
BLANK TEST

14:22

SUBJECT SAMPLE

INTERFERENCE 14:22

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100344

Date: 03/24/2011
Time: 14:29:21

SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERE

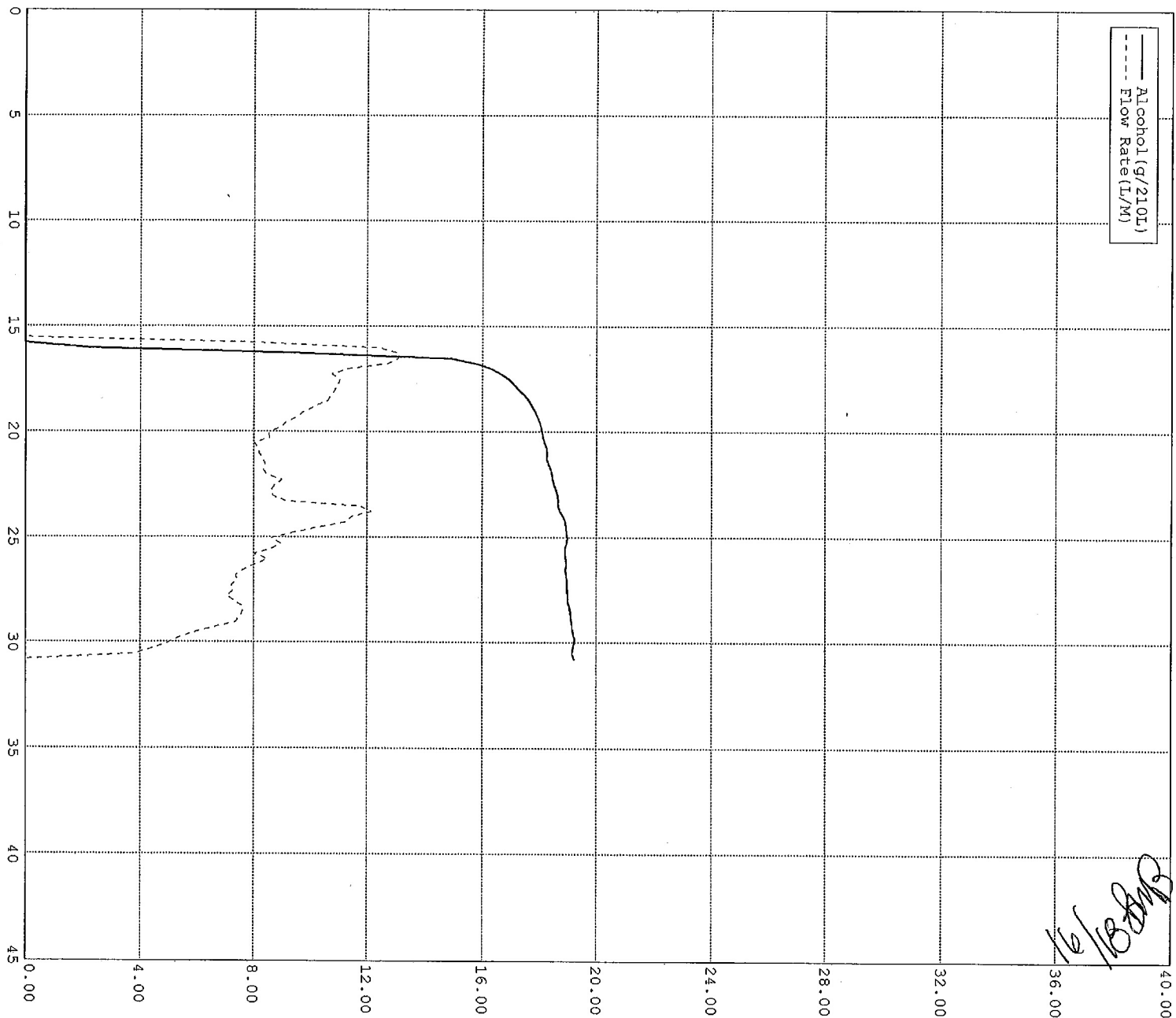
OPERATOR NAME:
ETHANOL AND ISOPROPNOL
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:30
BLANK TEST	0.000	14:30
INTERNAL STANDARD	VERIFIED	14:31
EXTERNAL STANDARD	0.079	14:31
BLANK TEST	0.000	14:32
SUBJECT SAMPLE	INTERFERENCE	14:32

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100344

Date: 03/24/2011
Time: 13:55:50

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

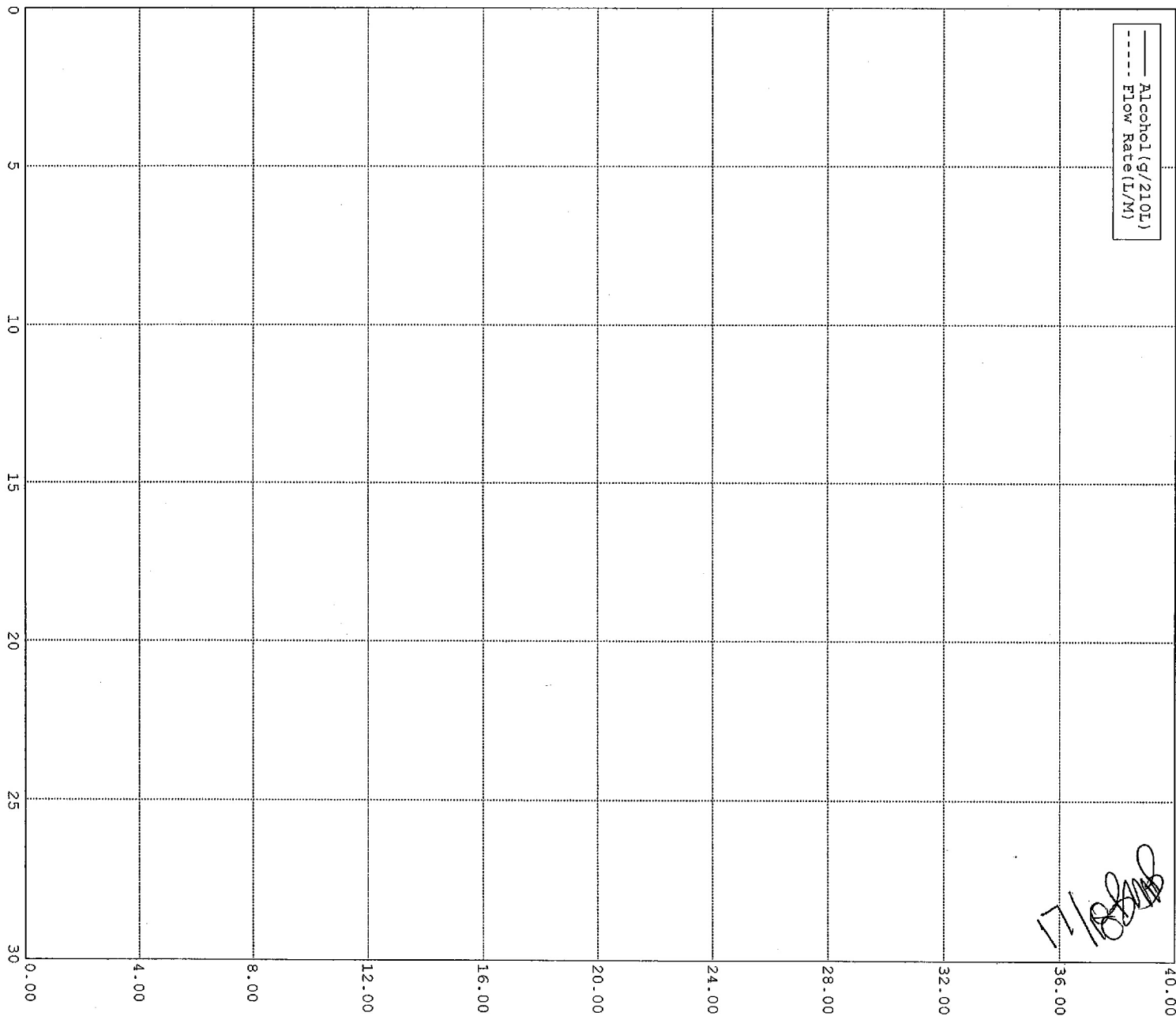
OPERATOR NAME:
RADIO INTERFERE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:56
BLANK TEST	0.000	13:56
INTERNAL STANDARD	VERIFIED	13:57
EXTERNAL STANDARD	0.080	13:57
BLANK TEST	0.000	13:58

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100344

Date: 03/24/2011
 Time: 14:47:22

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

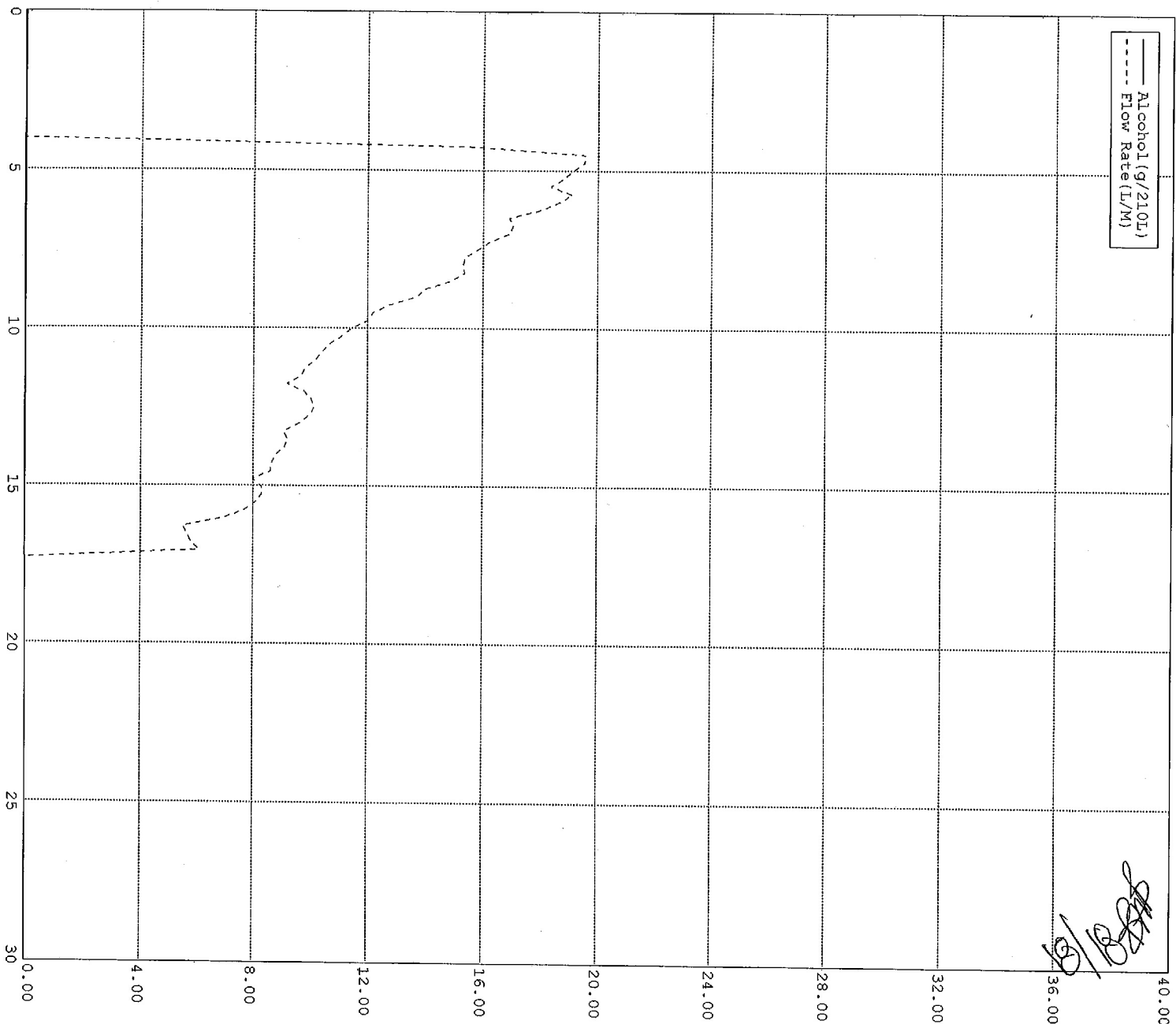
OPERATOR NAME:
 BRANDI M BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.45: 0.078
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:49
BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:49
EXTERNAL STANDARD	0.079	14:49
BLANK TEST	0.000	14:50
SUBJECT SAMPLE	0.000	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.079	14:51
BLANK TEST	0.000	14:52

BM



BM
 03/24/2011