	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Certification Form - DMDEF2011R1		
	Issuing Authority - Nita Bolz, Scientific Director		
Approval date: 03/10/11		Effective date: 03/10/11	Archive date: Active

## DataMaster DMT Certification Form

Instrument # 100383Analyst Brandi Barnett  
Date 5/16/11

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 1700 mL
5. Dry Gas Linearity Test (attached)
  - a. Levels Used 
    - i. 0.020g/210L Mnf ILMO Lot 02811020A1 Exp 02/01/2013
    - ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 02/01/2013
    - iii. 0.080g/210L Mnf ILMO Lot 02511080A3 " Exp 02/01/2013
    - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 03/01/2013
    - v. 0.200g/210L Mnf ILMO Lot 02811200A3 Exp 02/01/2013
    - vi. 0.300g/210L Mnf ILMO Lot 07611300A1 Exp 03/01/2013
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 08/04/2010 SN SD1202
  - d. RFI
7. Calibrate Stylus
8. Verify card reader is functional
9. Upload
10. Reset Options
11. Non-Drinking Subject Test (attached)

DIAGNOSTIC RECORD

Alaska Department of Public Safety  
DAEMASTER dat: 100383

Date: 05/16/2011  
Time: 10:03:37

VERSIONS

IMT: 1.02  
PIC: 3.02  
Modem: 2.0  
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED  
Breath Tube = 46.9°C PASSED

PUMP INFO

Flow Rate = 4.801 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

2/1088113

Technician Screen

-----  
DATAMASTER dnt: 100383  
-----

Date: 05/16/2011  
Time: 10:12 AM

Temperatures (°C)

Sample Cell: 48.8°C  
Breath Tube: 46.2°C

Current Barometer: 29.4 in  
Volume (Ltr): 1.57

Settings

Lamp: 1.72 V  
Bias: 81 V  
Cooler: 1.62 V  
Chopper: 540 Hz

Voltages (V)

Flow: 1.06 V  
Detector: 0.123 V

3/18/2013

CALIBRATION FACTORS

Alaska Department of Public Safety  
DATAMASTER dnt: 100383

Date: 03/08/2011  
Time: 13:06:25

Ca	=	0.1000			
CAL	=	0.978693	0.800	<=	CAL < 1.200
b1	=	0.0080	0.0000	<=	b1 < 0.0040
b2	=	0.0046	0.0010	<=	b2 < 0.0100
b3	=	0.0005	0.0000	<=	b3 < 0.0040
Xq	=	0.0925	0.0500	<=	Xq < 0.2000
a21	=	1.169466	1.050	<=	a21 < 1.300
a31	=	0.423226	0.300	<=	a31 < 0.800

4/18/11 MB

SUBJECT TEST

Alaska Department of Public Safety  
 DATASHEET dnr: 100383

Date: 05/16/2011  
 Time: 10:13:29

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

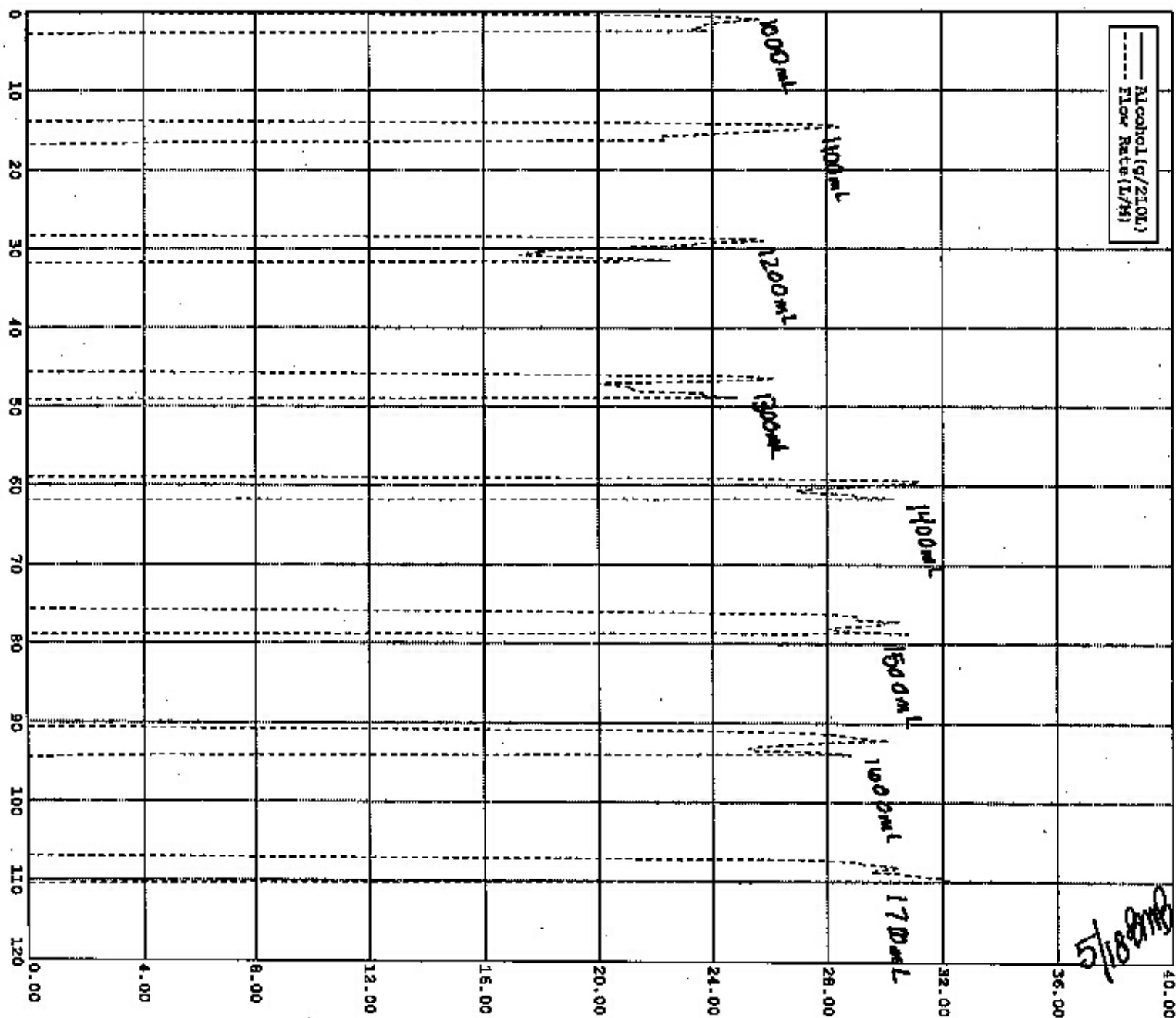
OPERATOR NAME:  
 MINIMUM VOLUME  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.41: 0.078  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	10:14
INTERNAL STANDARD	VERIFIED	10:14
EXTERNAL STANDARD	0.080	10:14
BLANK TEST	0.000	10:15
SUBJECT SAMPLE	0.000	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.080	10:18
BLANK TEST	0.000	10:20

*BSMB*



**LINEARITY CHECK**

Alaska Department of Public Safety  
 INSTRUMENT ID: 100383

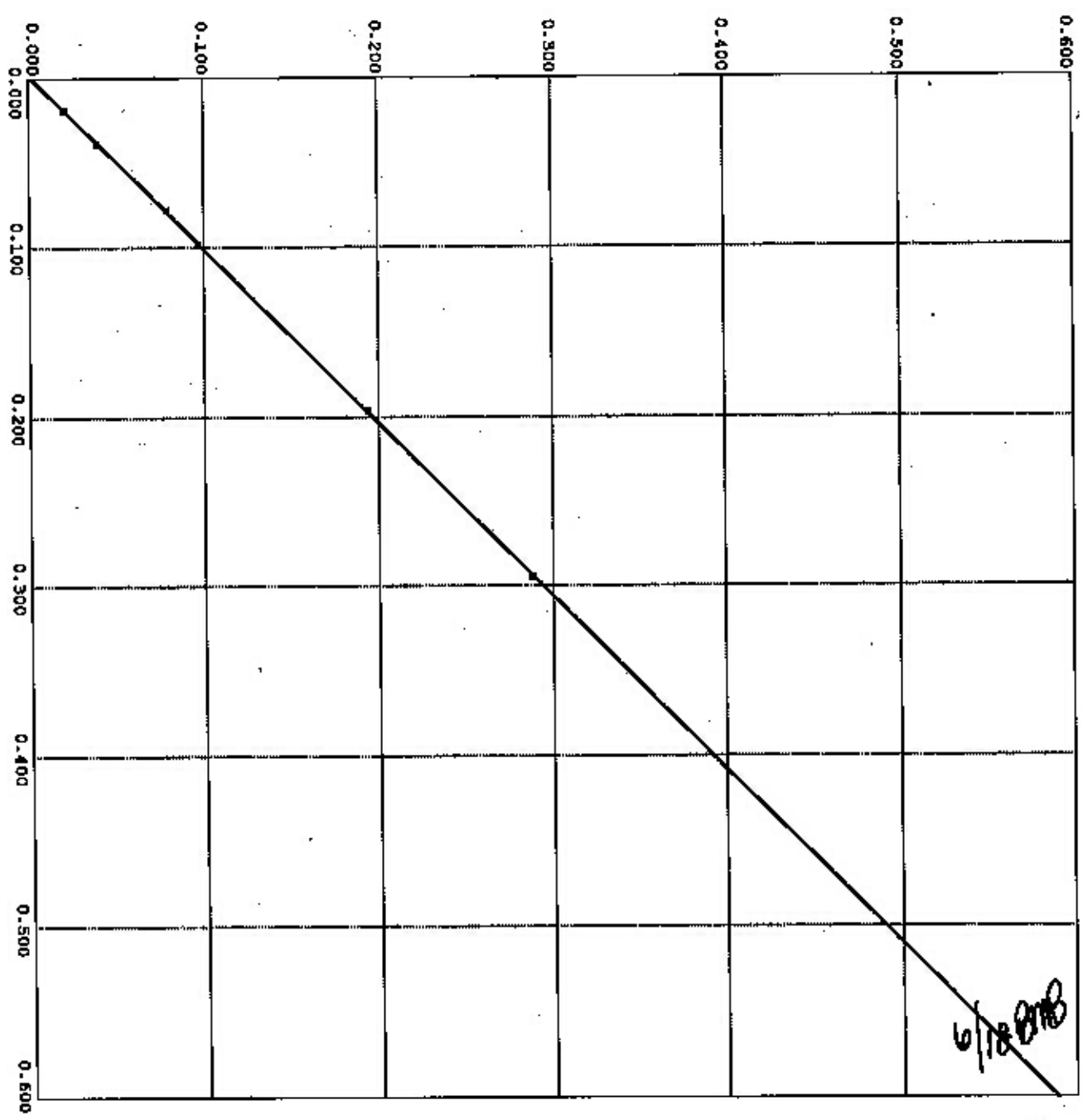
Date: 05/16/2011  
 Time: 13:02:28

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

TARGET	AVERAGE	STD. DEV.
0.015	0.0208	0.0004
0.039	0.0395	0.0005
0.078	0.0790	0.0000
0.098	0.0974	0.0005
0.196	0.1948	0.0013
0.294	0.2890	0.0007

SLOPE = 0.977876  
 R<sup>2</sup> = 0.999976

*Brandl*



*6/18/11*

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dnt: 100383

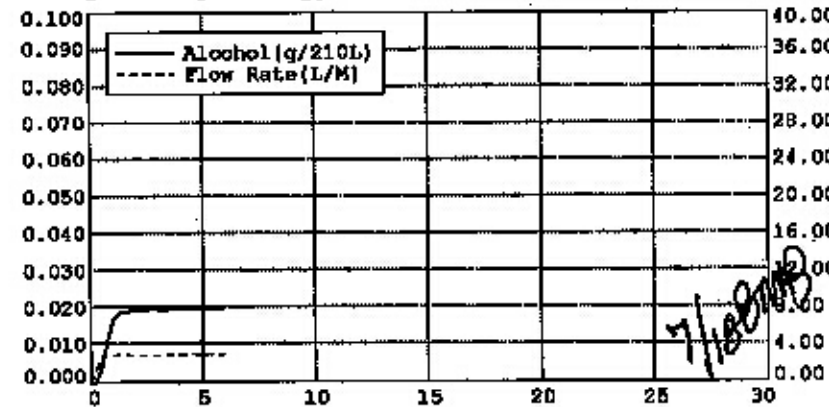
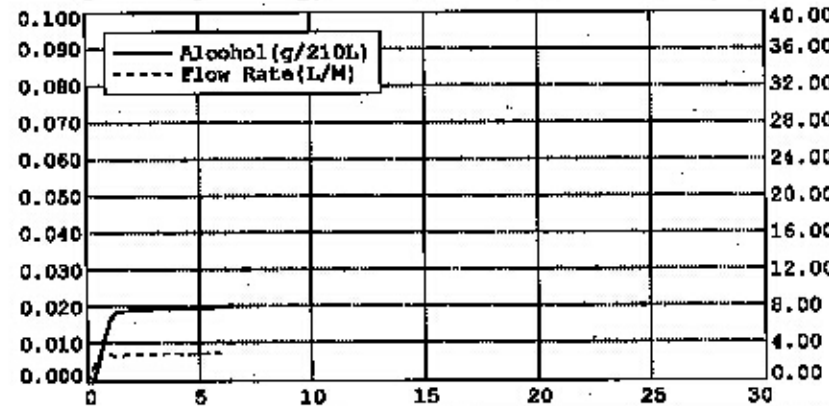
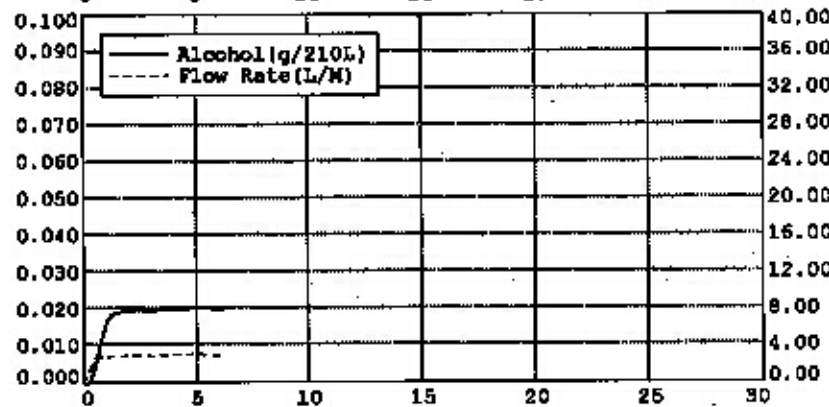
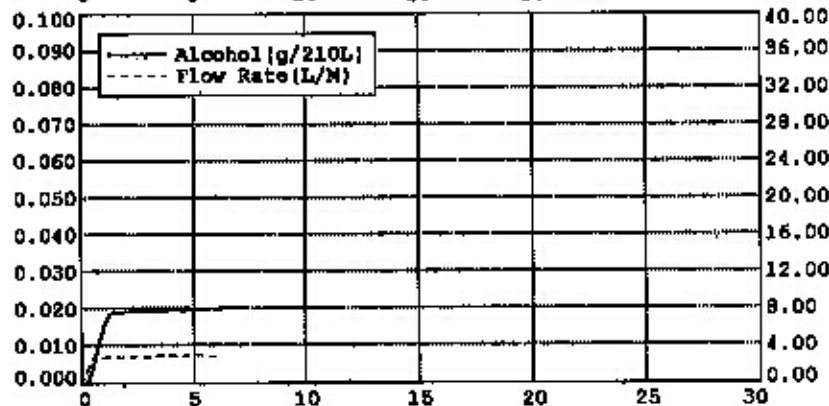
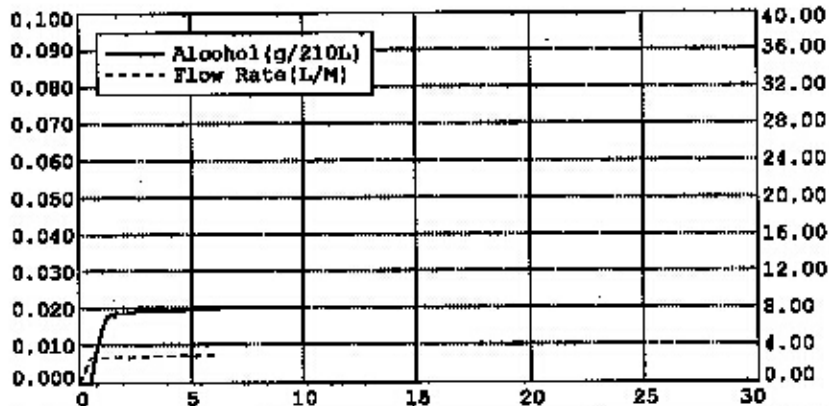
Date: 05/16/2011  
 Time: 13:02:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.40: 0.019  
 LOT #: 02811020A1  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:04
INTERNAL STANDARD	VERIFIED	13:04
EXTERNAL STANDARD	0.020	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.021	13:06
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.021	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.021	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.021	13:09
BLANK TEST	0.000	13:10

Average = 0.0208  
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

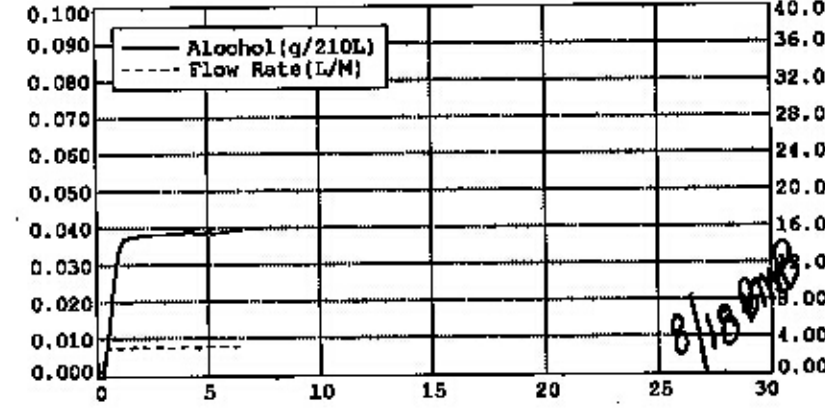
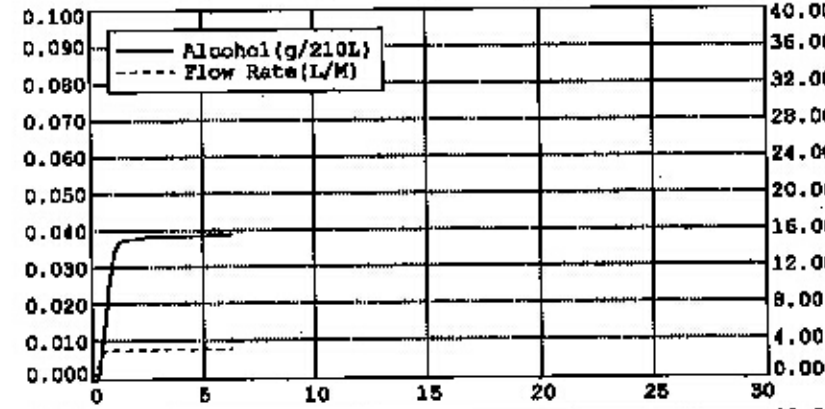
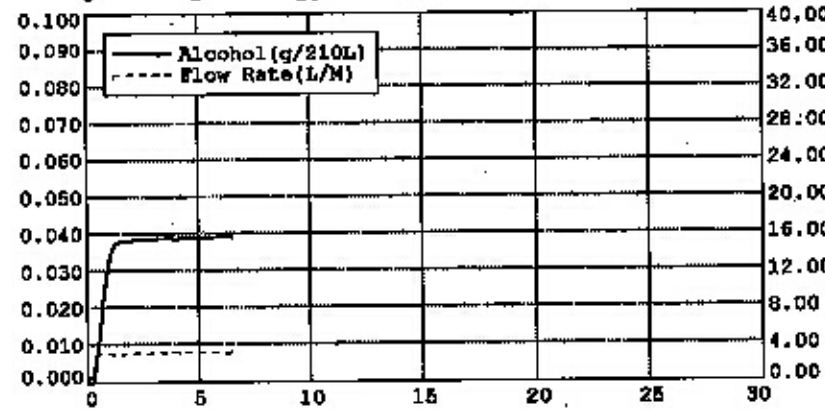
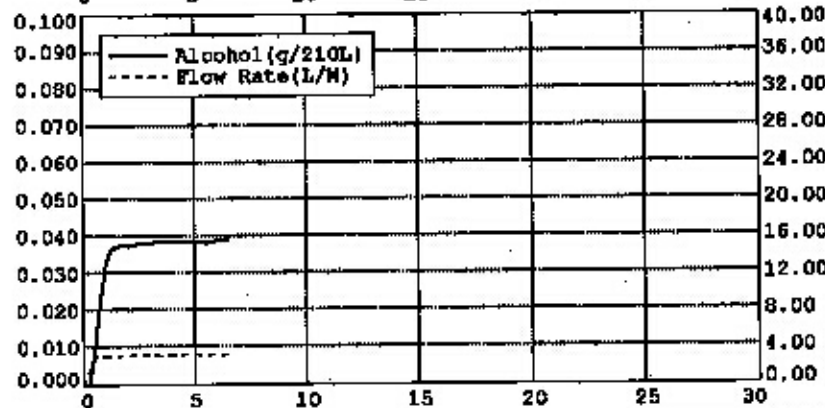
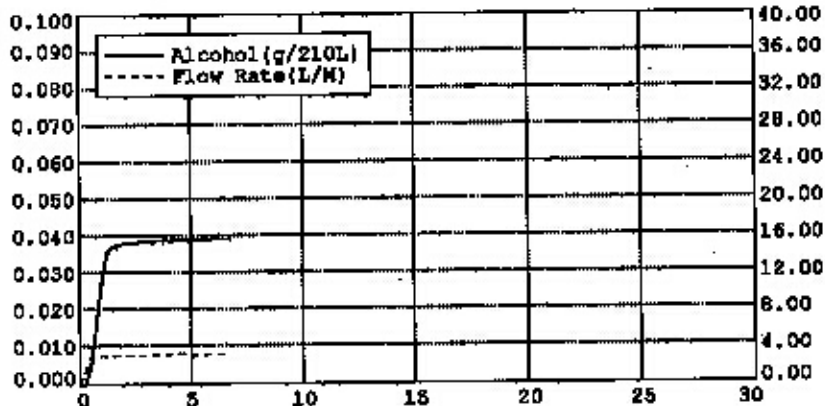
Alaska Department of Public Safety  
 DATAMASTER dmt: 100383

Date: 05/16/2011  
 Time: 13:11:50

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.040  
 TARGET AT 29.41: 0.039  
 LOT #: 02811048A2  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:12
INTERNAL STANDARD	VERIFIED	13:13
EXTERNAL STANDARD	0.040	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.039	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.040	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.039	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.040	13:17
BLANK TEST	0.000	13:18

Average = 0.0396  
 Std Dev = 0.0005





## LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dnt: 100383

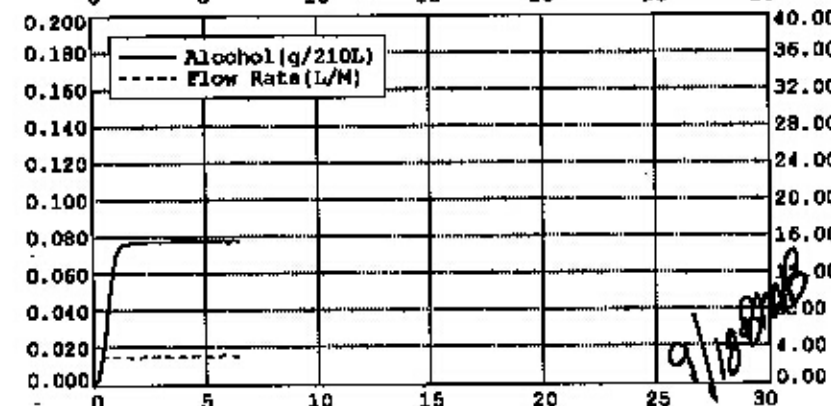
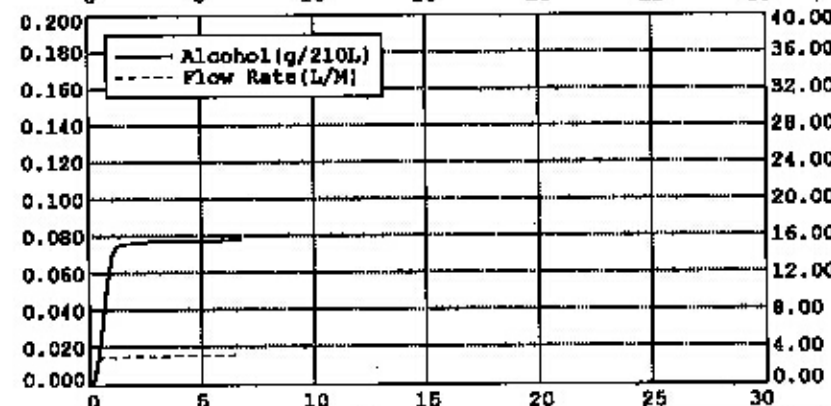
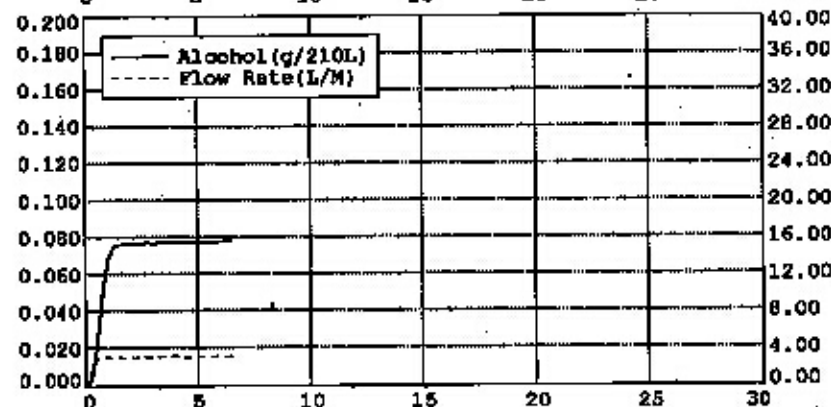
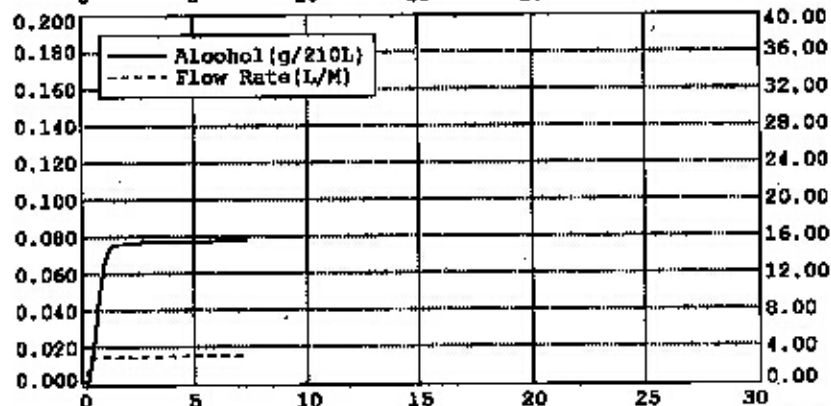
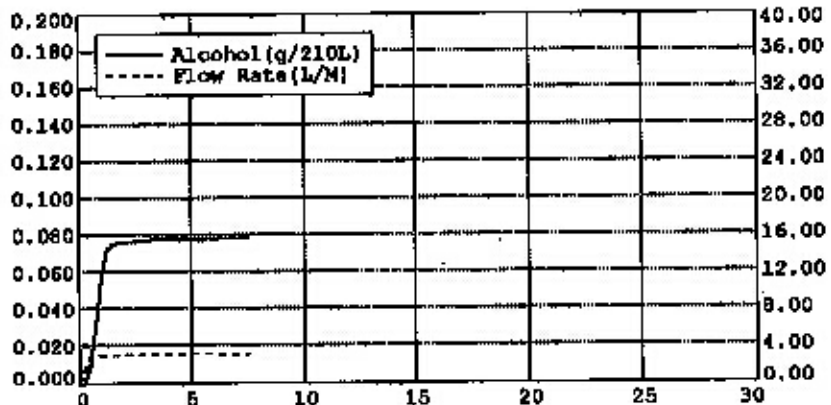
Date: 05/16/2011  
Time: 13:22:53

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.41: 0.078  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:23
INTERNAL STANDARD	VERIFIED	13:24
EXTERNAL STANDARD	0.079	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.079	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.079	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.079	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.079	13:28
BLANK TEST	0.000	13:29

Average = 0.0790  
Std Dev = 0.0000



## LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
 DATAMASTER dnt: 100383

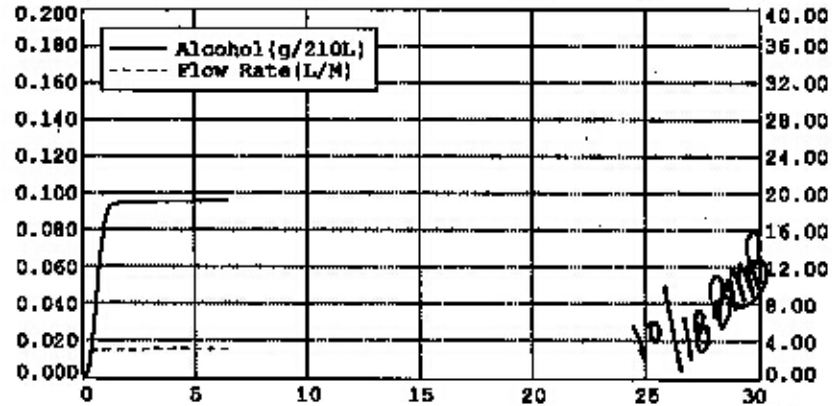
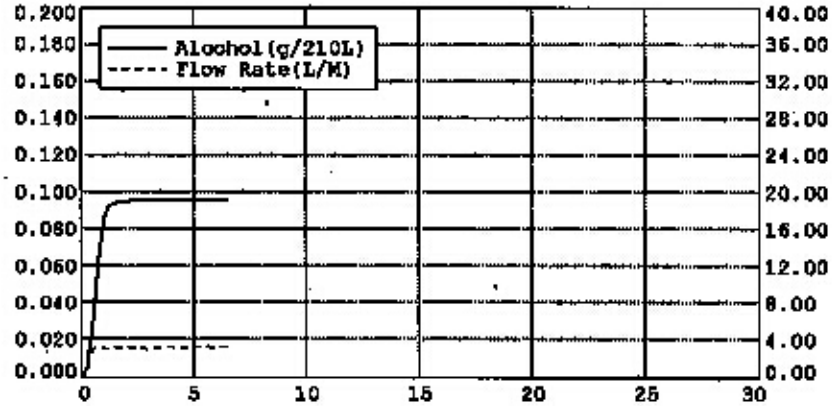
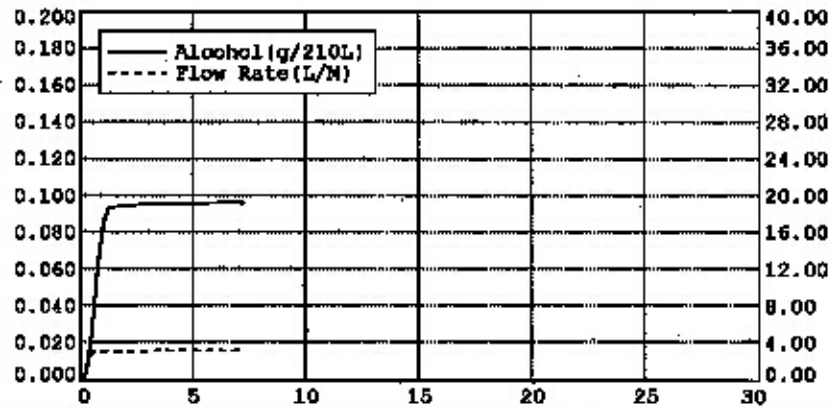
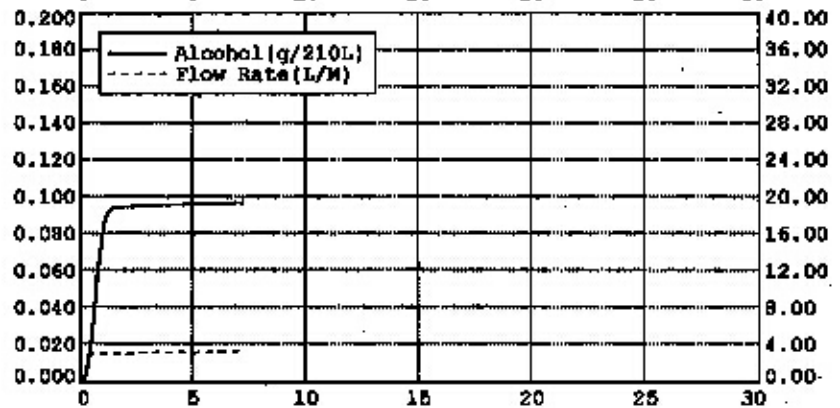
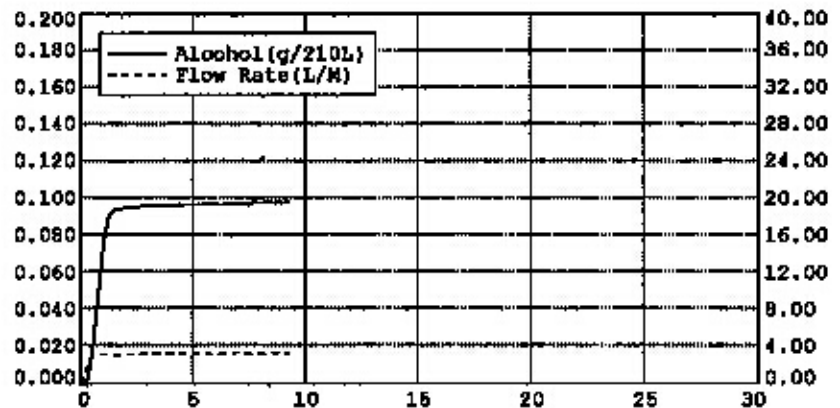
Date: 05/16/2011  
 Time: 13:40:46

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
 TARGET AT 29.40: 0.098  
 LOT #: 05611100A2  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:41
INTERNAL STANDARD	VERIFIED	13:41
EXTERNAL STANDARD	0.098	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.098	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.097	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.097	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.097	13:46
BLANK TEST	0.000	13:47

Average = 0.0974  
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

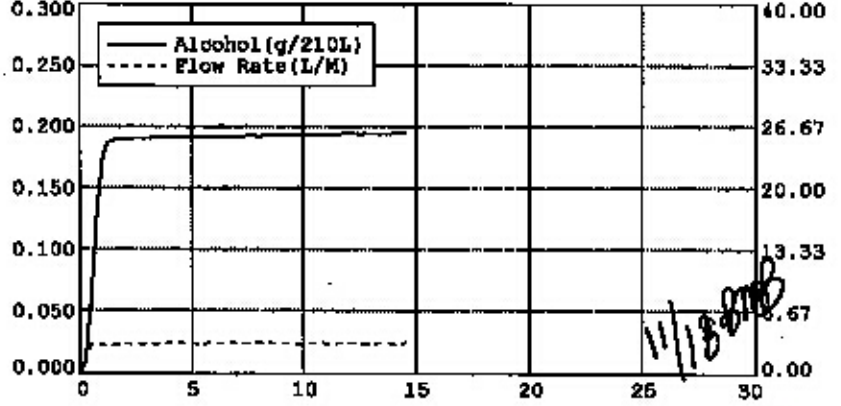
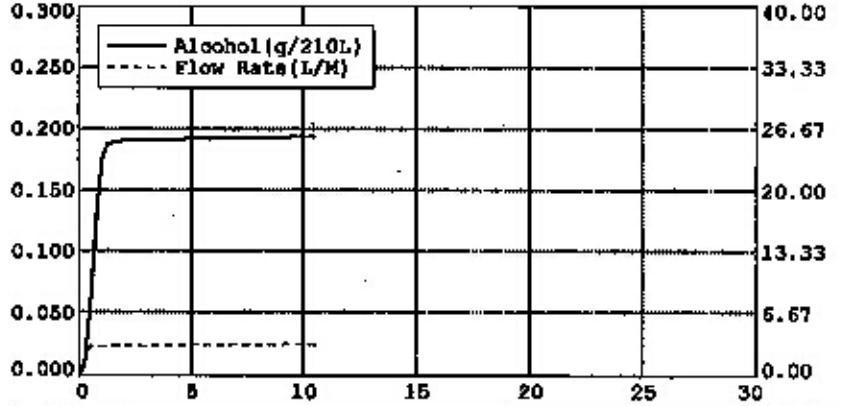
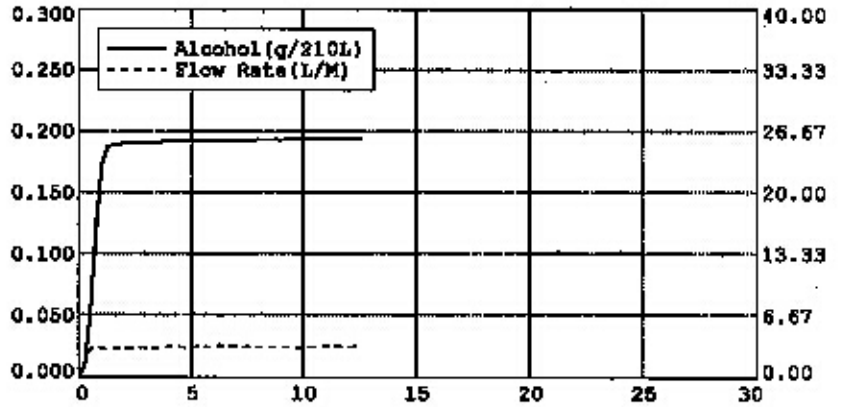
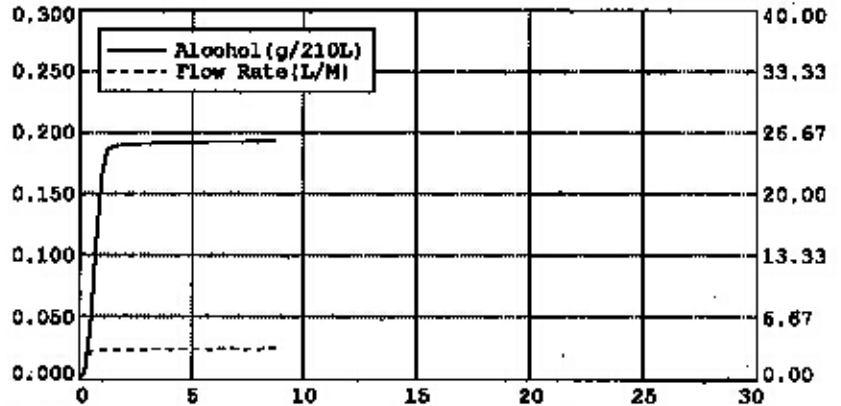
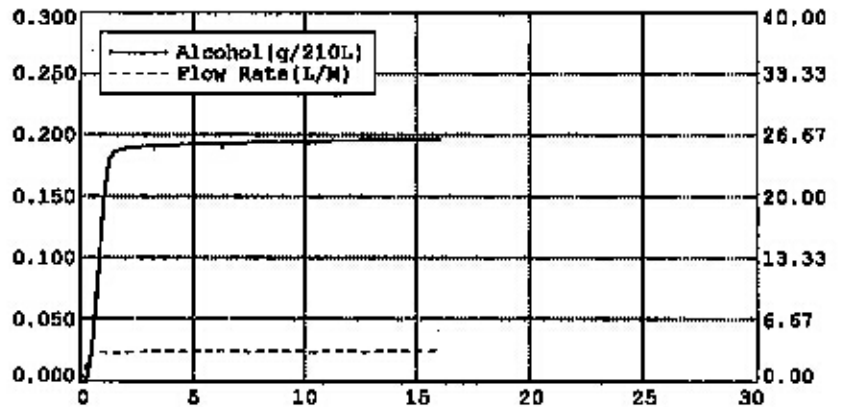
Alaska Department of Public Safety  
 DATAMASTER dnt: 100383

Date: 05/16/2011  
 Time: 13:58:03

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.200  
 TARGET AT 29.40: 0.196  
 LOT #: 02811200A3  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:59
INTERNAL STANDARD	VERIFIED	13:59
EXTERNAL STANDARD	0.197	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.194	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.194	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.194	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.195	14:04
BLANK TEST	0.000	14:05

Average = 0.1948  
 Std Dev = 0.0013



## LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
 DATAMASTER dmt: 100383

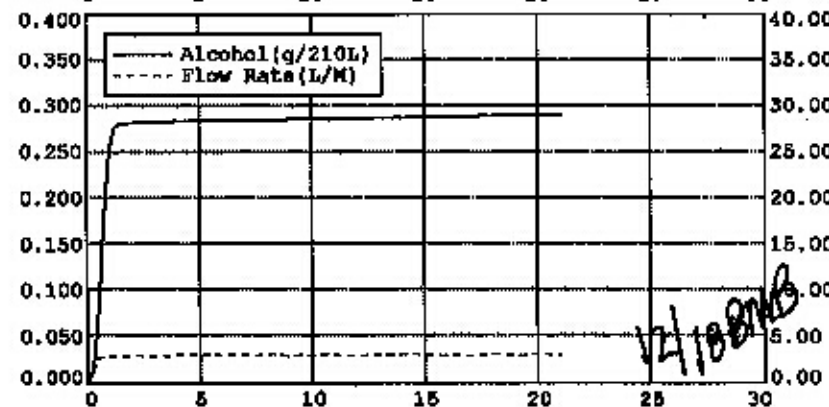
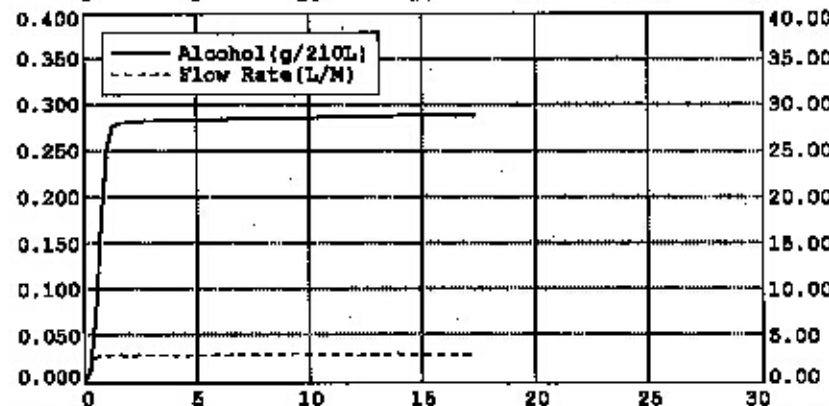
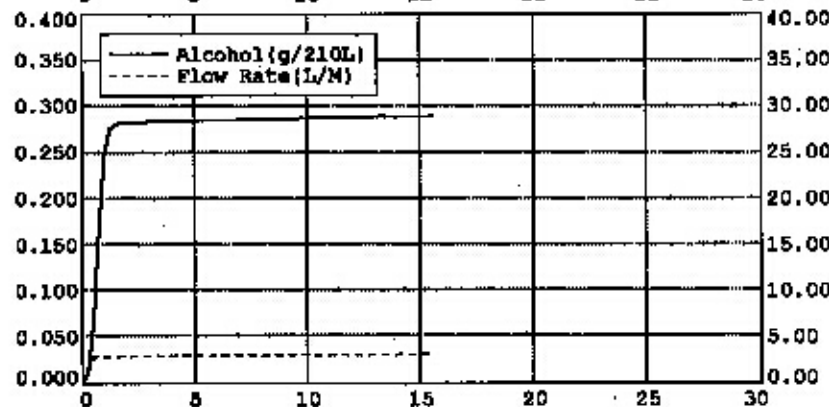
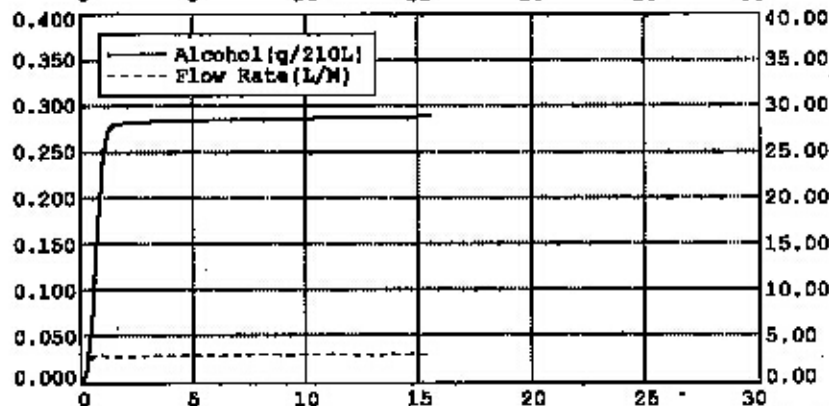
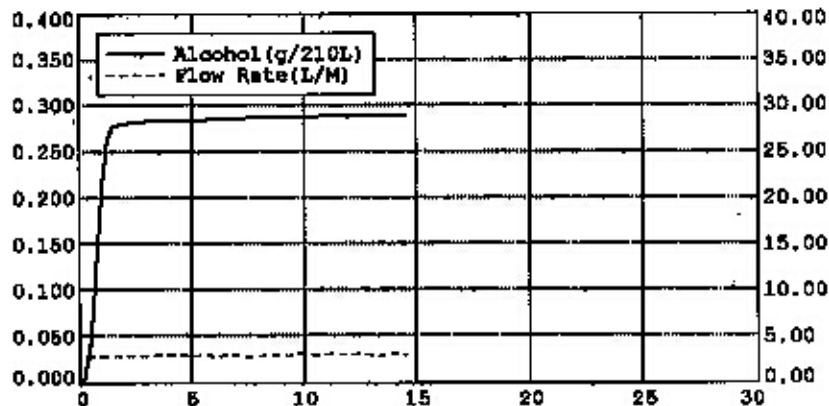
Date: 05/16/2011  
 Time: 14:07:56

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
 TARGET AT 29.40: 0.294  
 LOT #: 07611300A1  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:10
INTERNAL STANDARD	VERIFIED	14:10
EXTERNAL STANDARD	0.289	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.289	14:11
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.289	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.289	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.290	14:16
BLANK TEST	0.000	14:17

Average = 0.2890  
 Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety  
INSTRUMENT dmt: 100393

Date: 05/16/2011  
Time: 14:24:26

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

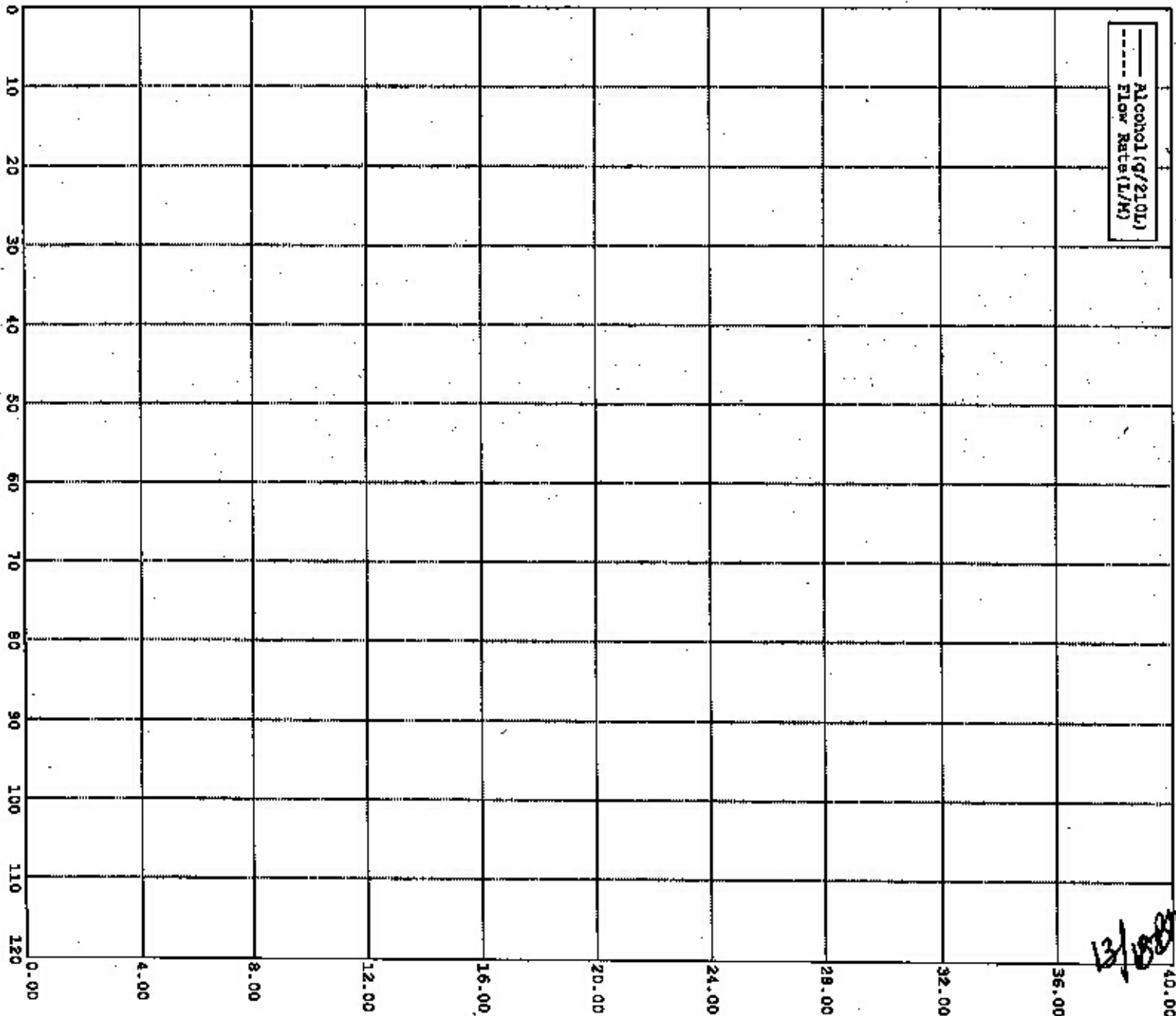
OPERATOR NAME:  
INCOMPLETE XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.40: 0.078  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:25
BLANK TEST	0.000	14:25
INTERNAL STANDARD	VERIFIED	14:25
EXTERNAL STANDARD	0.078	14:26
BLANK TEST	0.000	14:27
SUBJECT SAMPLE	INCOMPLETE	14:29

BAB



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100383

Date: 05/16/2011  
Time: 14:46:45

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

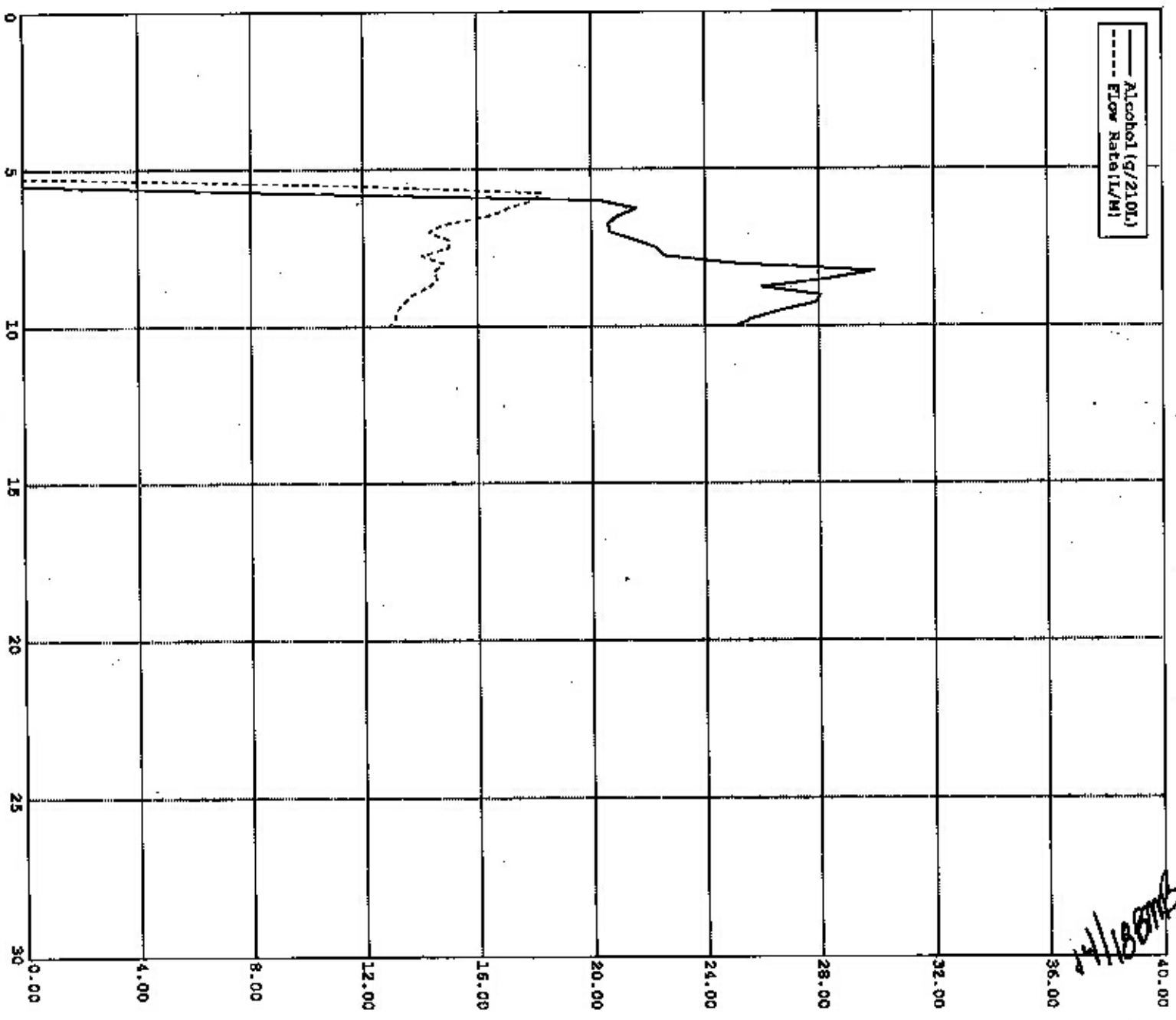
OPERATOR NAME:  
INVALID XXXX  
OPERATOR'S #: XXXX

DEPT/AGENCY:  
KNOWEN MOUTH ALCOHOL  
CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.41: 0.078  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:47
BLANK TEST	0.000	14:47
INTERNAL STANDARD	VERIFIED	14:48
EXTERNAL STANDARD	0.079	14:48
BLANK TEST	0.000	14:48
SUBJECT SAMPLE	Invalid	14:49

*BMB*



*14/18/2011*

SUBJECT TEST

Alaska Department of Public Safety  
 DATA MASTER dmt: 100383

Date: 05/16/2011  
 Time: 15:03:25

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INTERFERE

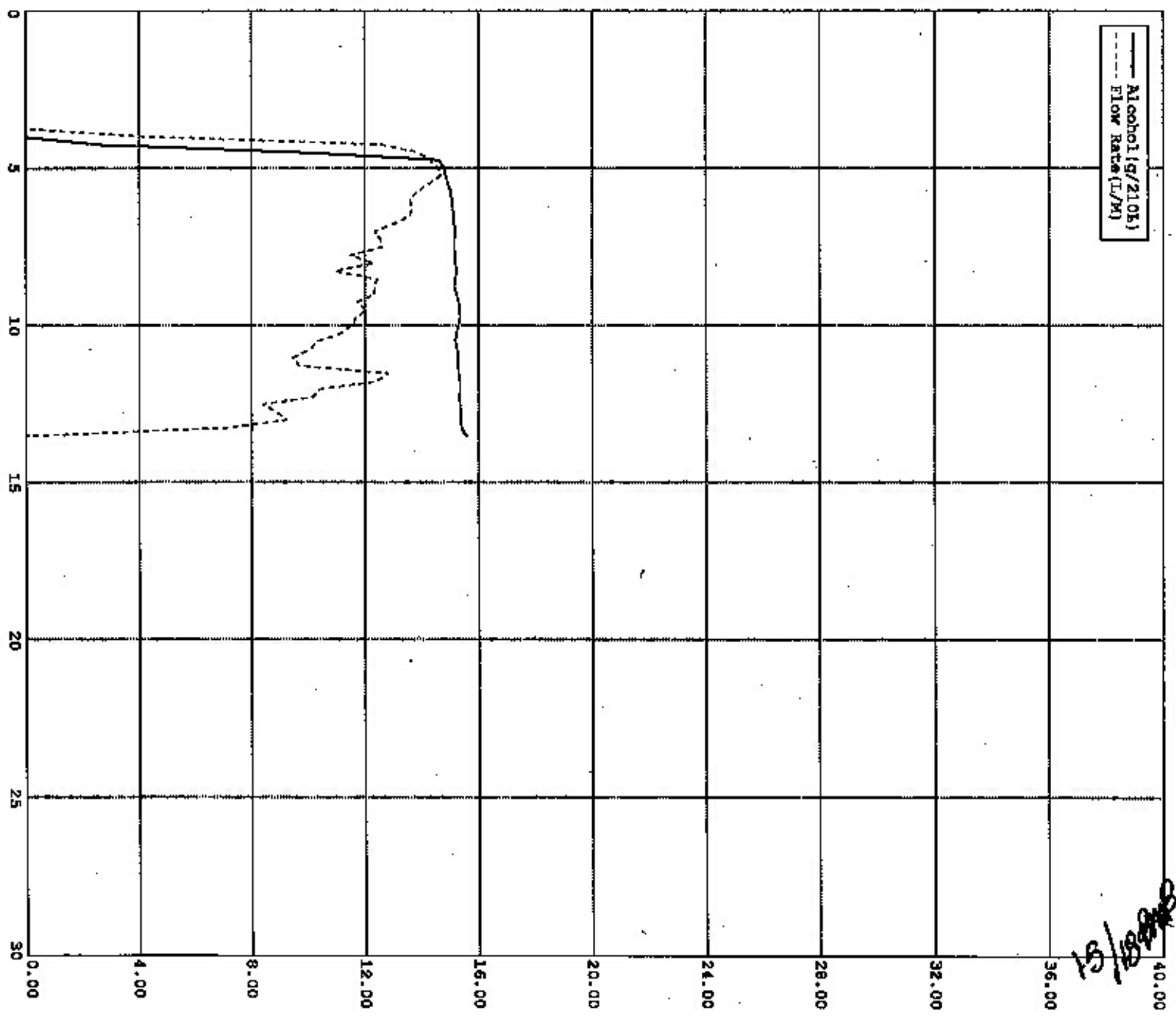
OPERATOR NAME:  
 ETHANOL AND ACETONE  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.40: 0.078  
 LOT #: 02311080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	15:04
BLANK TEST	0.000	15:04
INTERNAL STANDARD	VERIFIED	15:04
EXTERNAL STANDARD	0.079	15:05
BLANK TEST	0.000	15:06
SUBJECT SAMPLE	INTERFERENCE	15:06

*Handwritten signature/initials: BMB*



*Handwritten signature/initials: BMB*  
 5/16/11

SUBJECT TEST

Alaska Department of Public Safety  
DATABASE# dmc: 100383

Date: 05/16/2011  
Time: 15:09:33

SUBJECT NAME:  
TEST TEST  
LICENSE #: INTERPRE

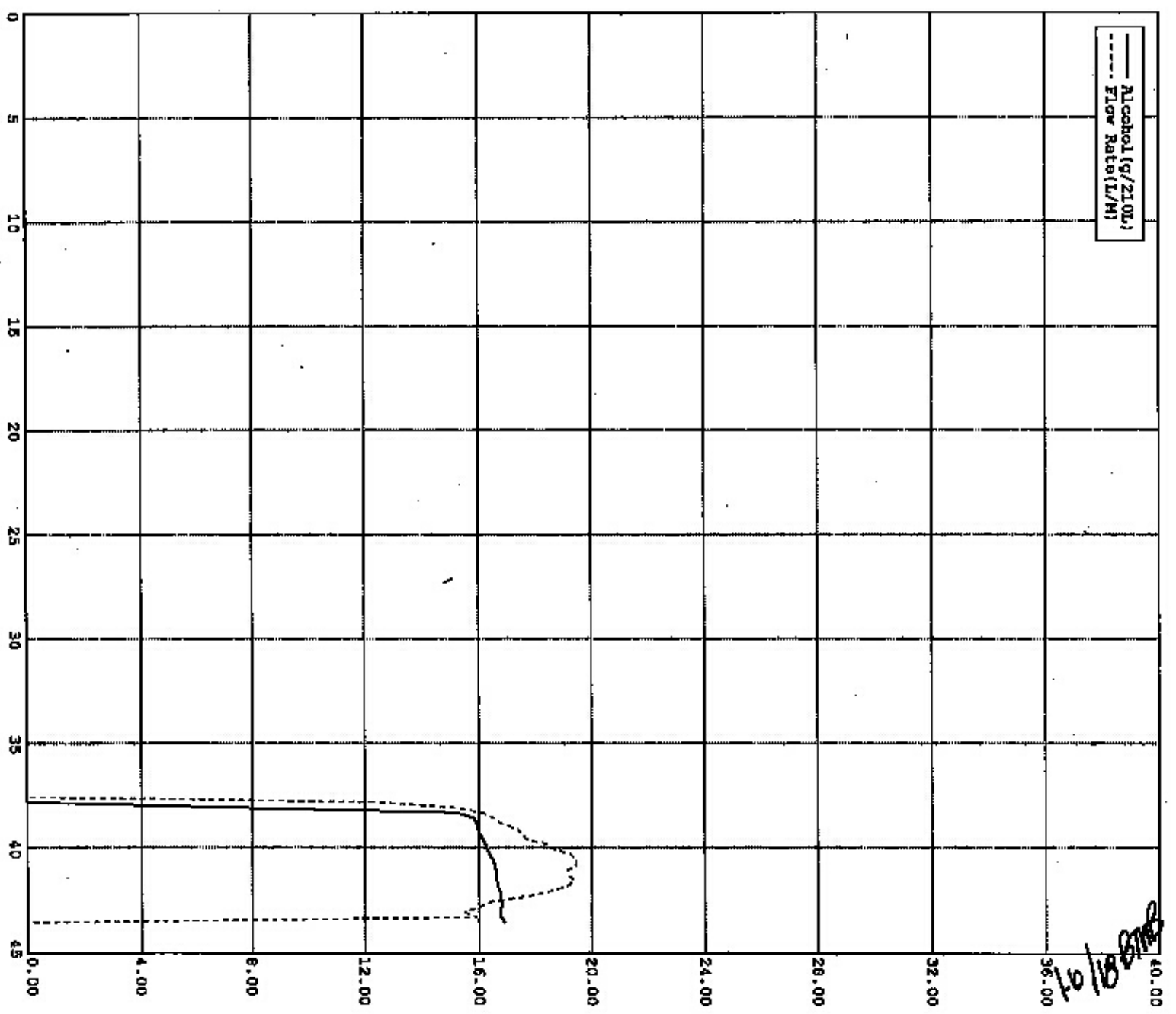
OPERATOR NAME:  
BRANDL AND ISOROPANOL  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET ME 29.40: 0.078  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	15:10
BLANK TEST	0.000	15:10
INTERNAL STANDARD	VERIFIED	15:10
EXTERNAL STANDARD	0.078	15:11
BLANK TEST	0.000	15:11
SUBJECT SAMPLE	INTERFERENCE	15:12

*BRMB*



*10/18/11 BRMB*



SUBJECT TEST

Alaska Department of Public Safety  
 LABORATORY dmc: 100383

Date: 05/16/2011  
 Time: 14:58:36

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: PRT

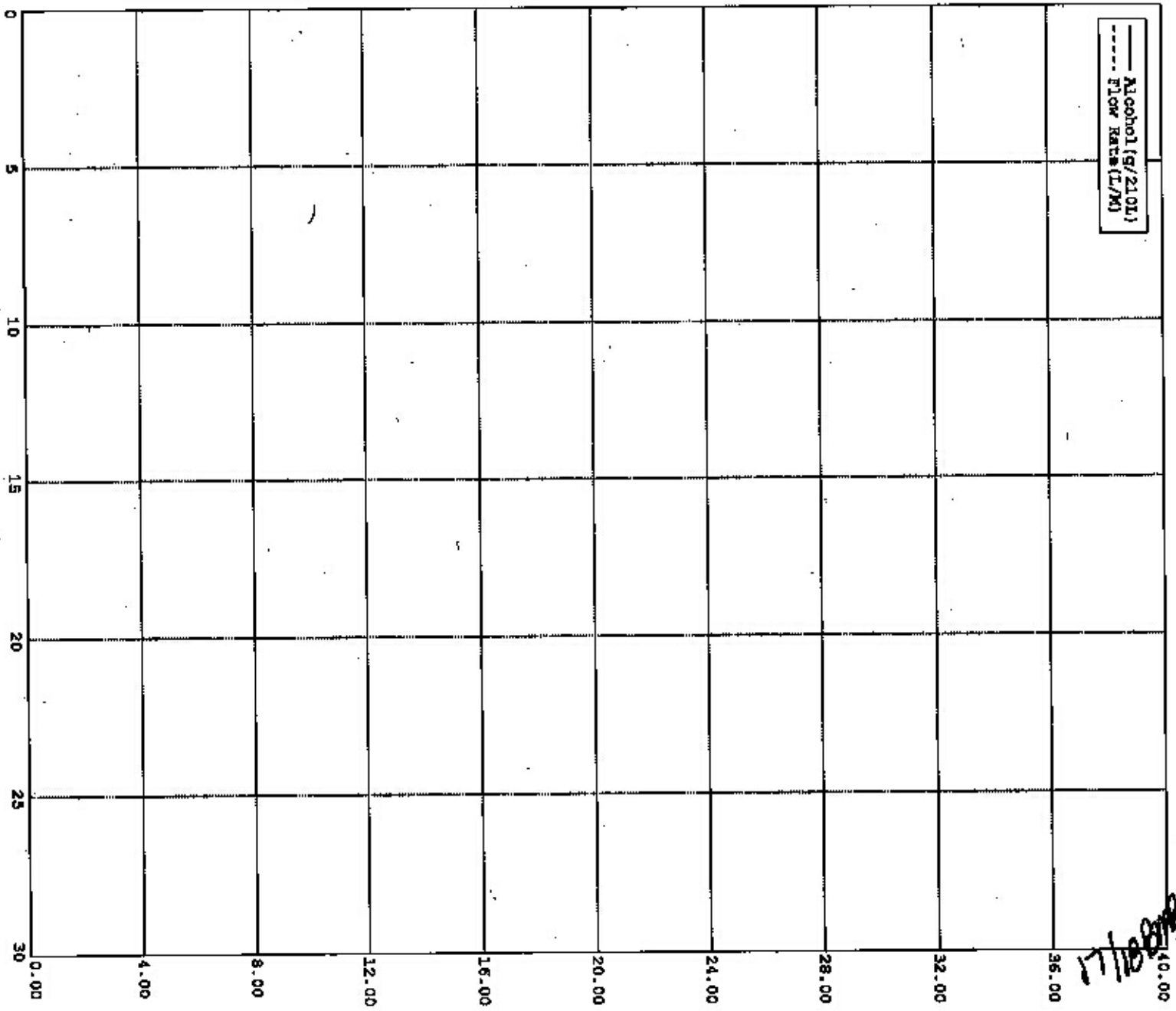
OPERATOR NAME:  
 XXXX XXXX  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.41: 0.078  
 LOT #: 02511080AS  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK  
 BLANK TEST PASSED 14:59  
 INTERNAL STANDARD VERIFIED 15:00  
 EXTERNAL STANDARD 0.079 15:00  
 BLANK TEST 0.000 15:01

RFT Detected



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmi: 100363

Date: 05/16/2011  
Time: 15:26:32

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

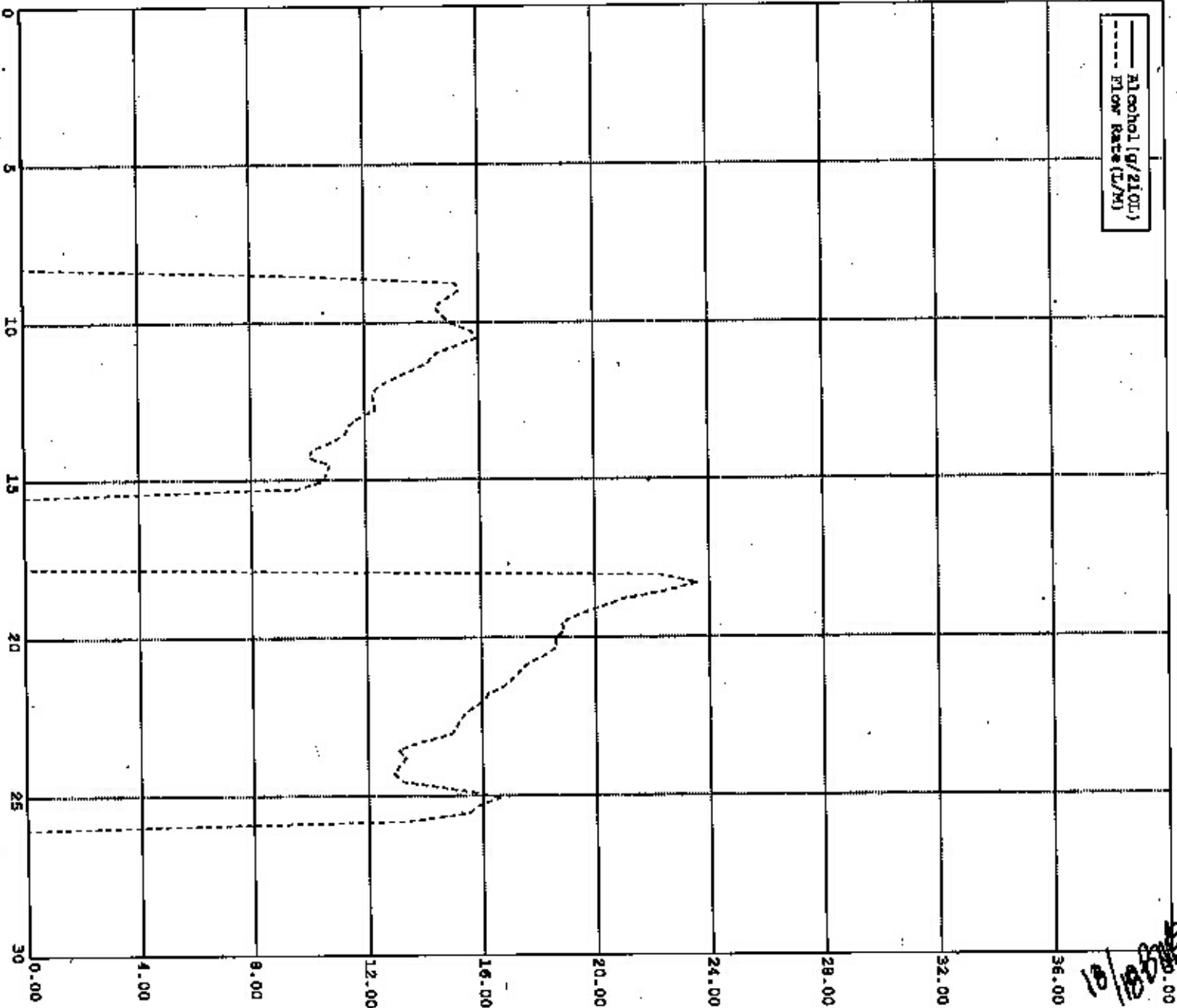
OPERATOR NAME:  
BRANDI M BARNETT  
OPERATOR'S #: 7039

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AIR 29.40; 0.078  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	15:27
BLANK TEST	0.000	15:27
INTERNAL STANDARD	VERIFIED	15:27
EXTERNAL STANDARD	0.075	15:28
BLANK TEST	0.000	15:29
SUBJECT SAMPLE	0.000	15:29
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.079	15:30
BLANK TEST	0.000	15:31

*DMB*



10/10/2011

Final page for report

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7/3/2014