


| | | | |
|---|---|----------------------|--|
|  | 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 # 100420Analyst Brandi BarnettDate 5/19/11

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 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 02511080A2 Exp 02/01/2013
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 03/01/2013
 - v. 0.200g/210L Mnf ILMO Lot 07611200A2 Exp 03/01/2013
 - 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 DR 6267
 - 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)

1/18/11

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 05/19/2011
Time: 10:30:17

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 45.1°C PASSED

PUMP INFO

Flow Rate = 5.130 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

2/18/11
BMS

Technician Screen

DATAMASTER dmt: 100420

Date: 05/19/2011
Time: 10:50 AM

Temperatures (°C)

Sample Cell: 49.1°C
Breath Tube: 45.3°C

Current Barometer 29.7 in
Volume (Ltr) 1.59

Settings

Lamp: 1.84 V
Bias: 79 V
Cooler: 1.73 V
Chopper: 537 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.346 V

3/18 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 05/18/2011
Time: 13:54:20

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

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

Ca = 0.1000
CAL = 0.987303 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0034 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0794 0.0500 <= Xq < 0.2000
a21 = 1.113495 1.050 <= a21 < 1.300
a31 = 0.362455 0.300 <= a31 < 0.800

4/18/11 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100420

Date: 05/19/2011
 Time: 10:51:54

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

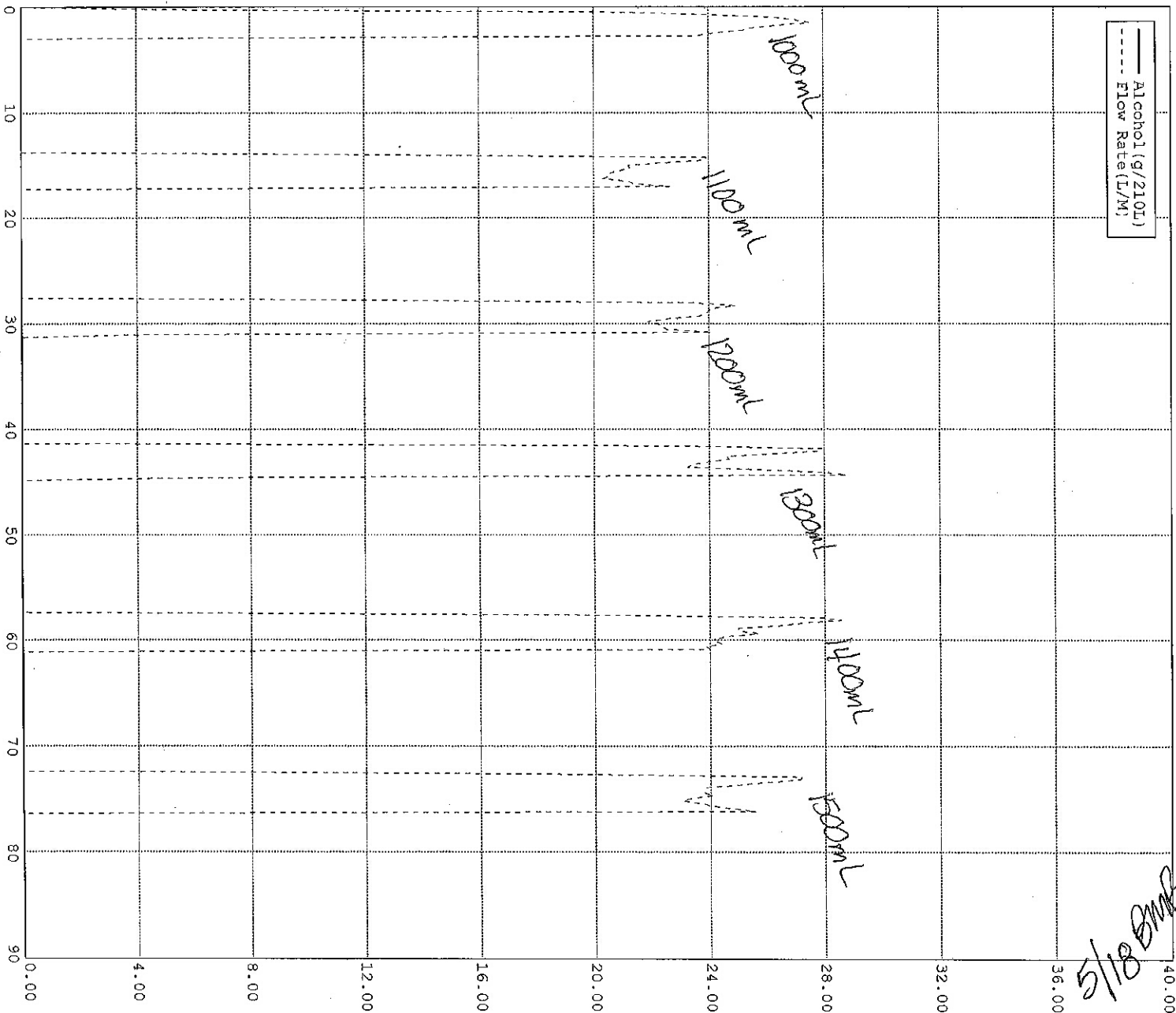
OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.74: 0.079
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK | PASSED | 10:54 |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 10:54 |
| INTERNAL STANDARD | VERIFIED | 10:54 |
| EXTERNAL STANDARD | 0.080 | 10:55 |
| BLANK TEST | 0.000 | 10:56 |
| SUBJECT SAMPLE | 0.000 | 10:57 |
| BLANK TEST | 0.000 | 10:58 |
| EXTERNAL STANDARD | 0.080 | 10:58 |
| BLANK TEST | 0.000 | 10:59 |

BMB



5/18 BMB

LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dnt: 100420

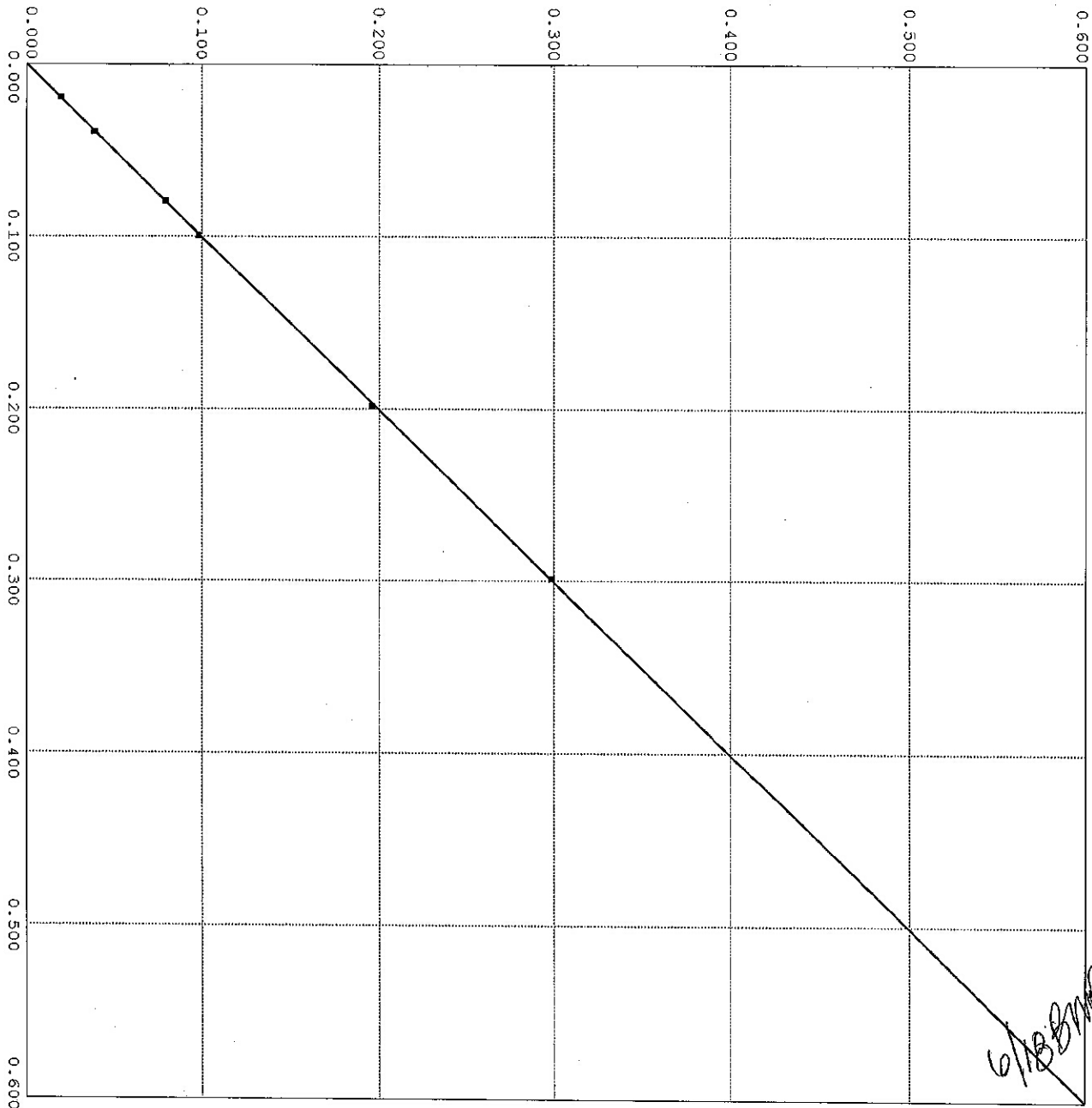
Date: 05/19/2011
 Time: 11:18:00

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

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.019 | 0.0202 | 0.0004 |
| 0.039 | 0.0392 | 0.0004 |
| 0.079 | 0.0800 | 0.0007 |
| 0.099 | 0.0986 | 0.0005 |
| 0.198 | 0.1968 | 0.0004 |
| 0.298 | 0.2994 | 0.0009 |

SLOPE = 0.999668
 R² = 0.999954

BMB



6/18 BMB

LINEARITY CHECK: Control Test 1

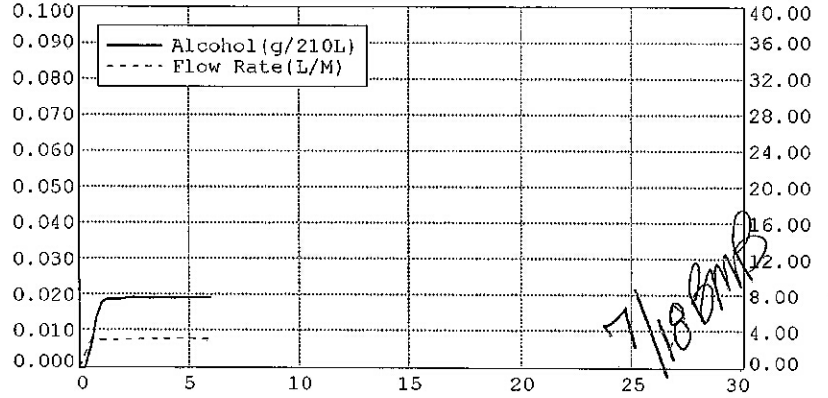
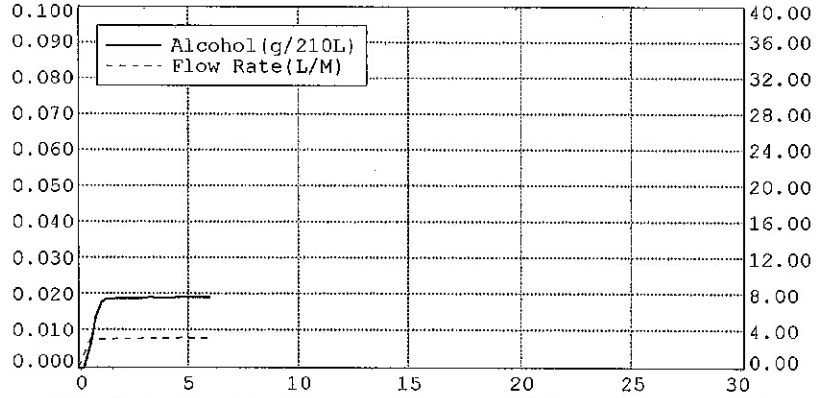
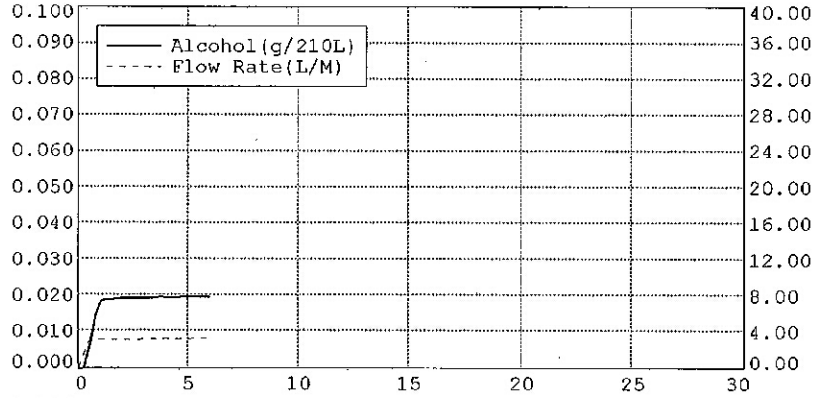
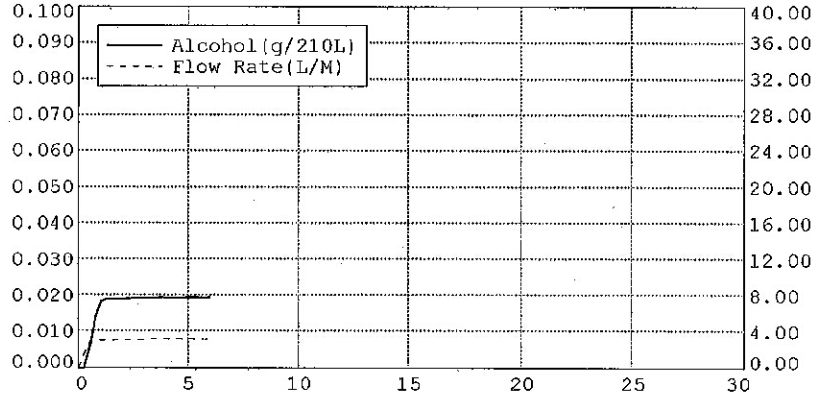
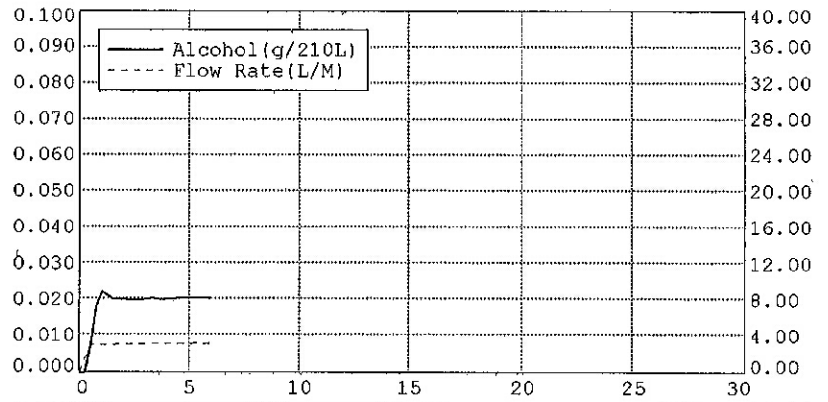
Alaska Department of Public Safety
 DATAMASTER dmt; 100420

Date: 05/19/2011
 Time: 11:18:02

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.020
 TARGET AT 29.74; 0.019
 LOT #: 02811020A1
 EXPIRATION: 02/01/2013

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 11:19 |
| INTERNAL STANDARD | VERIFIED | 11:19 |
| EXTERNAL STANDARD | 0.021 | 11:19 |
| BLANK TEST | 0.000 | 11:20 |
| EXTERNAL STANDARD | 0.020 | 11:20 |
| BLANK TEST | 0.000 | 11:21 |
| EXTERNAL STANDARD | 0.020 | 11:21 |
| BLANK TEST | 0.000 | 11:22 |
| EXTERNAL STANDARD | 0.020 | 11:22 |
| BLANK TEST | 0.000 | 11:23 |
| EXTERNAL STANDARD | 0.020 | 11:23 |
| BLANK TEST | 0.000 | 11:24 |

Average = 0.0202
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

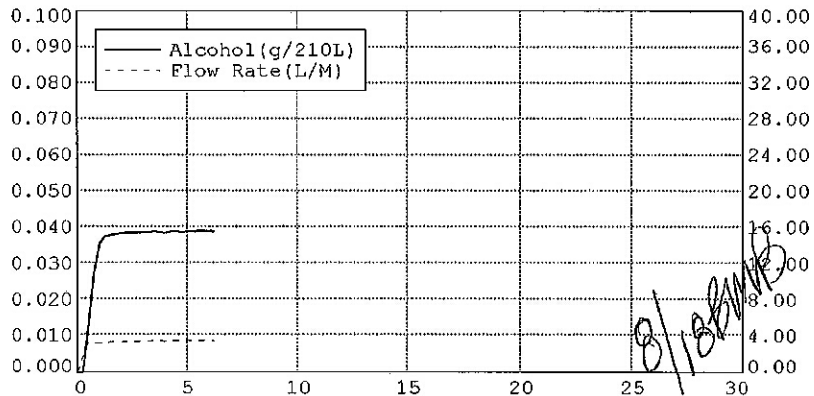
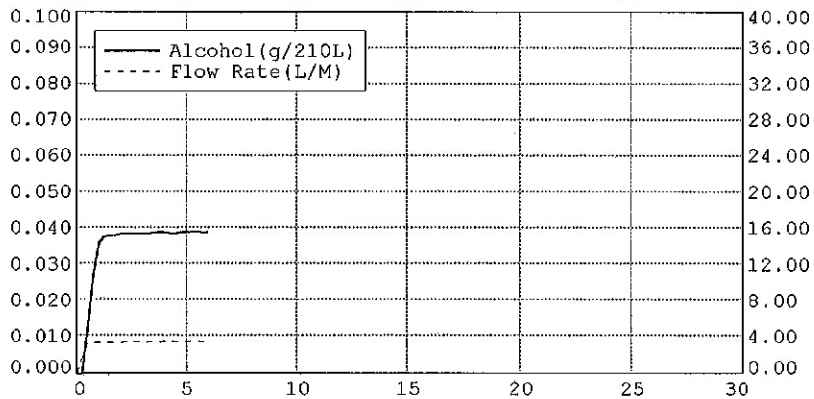
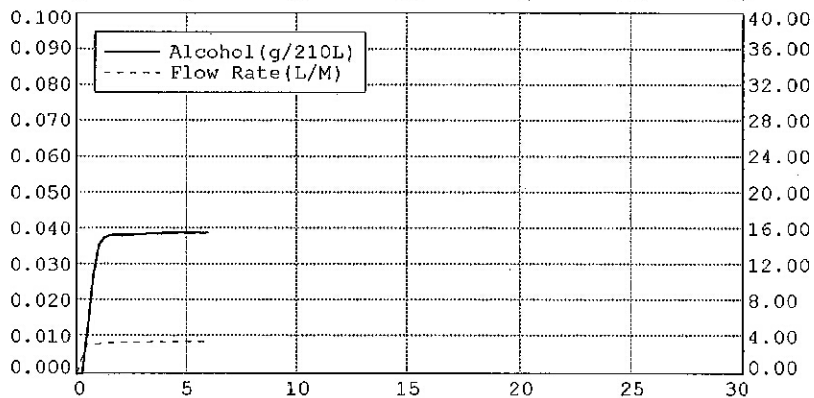
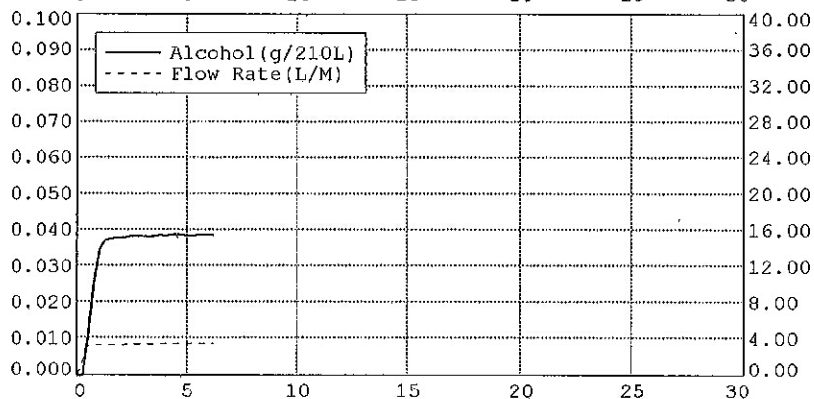
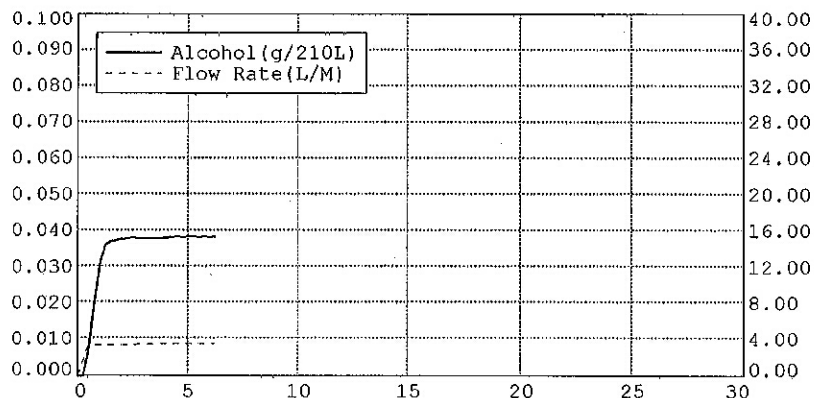
 Alaska Department of Public Safety
 DATAMASTER dmt: 100420

Date: 05/19/2011
 Time: 11:26:06

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 29.74: 0.039
 LOT #: 02811040A2
 EXPIRATION: 02/01/2013

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 11:27 |
| INTERNAL STANDARD | VERIFIED | 11:27 |
| EXTERNAL STANDARD | 0.039 | 11:27 |
| BLANK TEST | 0.000 | 11:28 |
| EXTERNAL STANDARD | 0.039 | 11:28 |
| BLANK TEST | 0.000 | 11:29 |
| EXTERNAL STANDARD | 0.040 | 11:29 |
| BLANK TEST | 0.000 | 11:30 |
| EXTERNAL STANDARD | 0.039 | 11:30 |
| BLANK TEST | 0.000 | 11:31 |
| EXTERNAL STANDARD | 0.039 | 11:31 |
| BLANK TEST | 0.000 | 11:32 |

Average = 0.0392
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

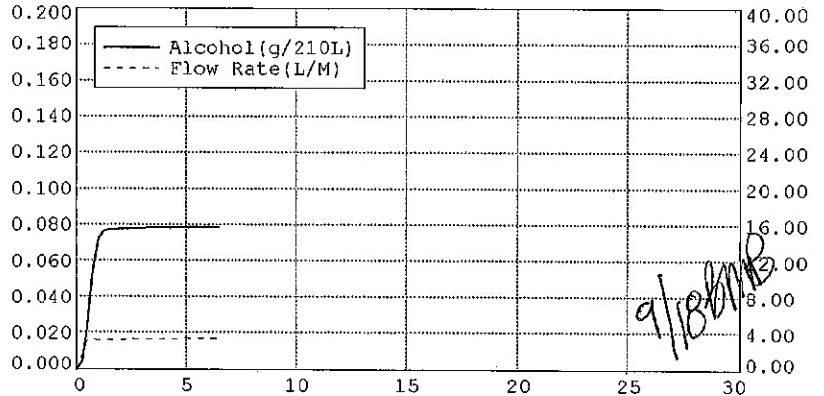
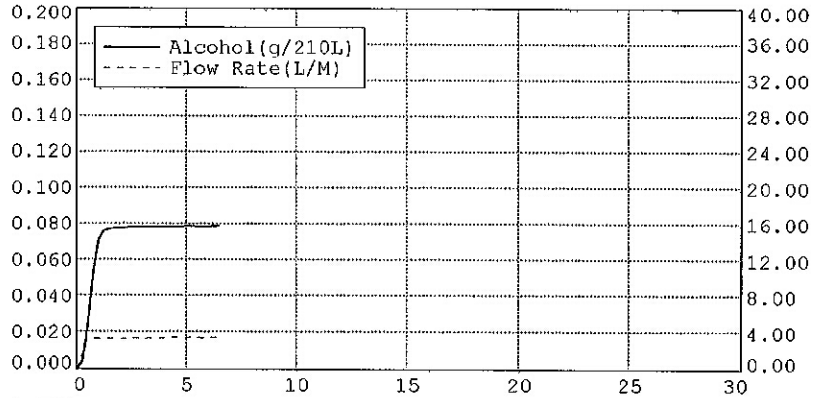
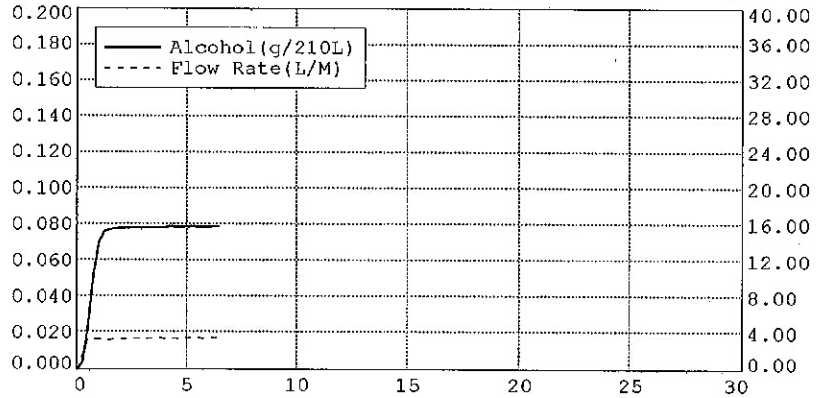
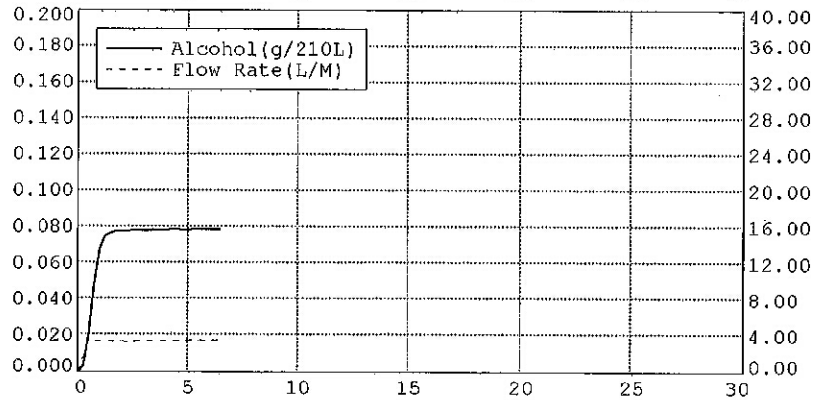
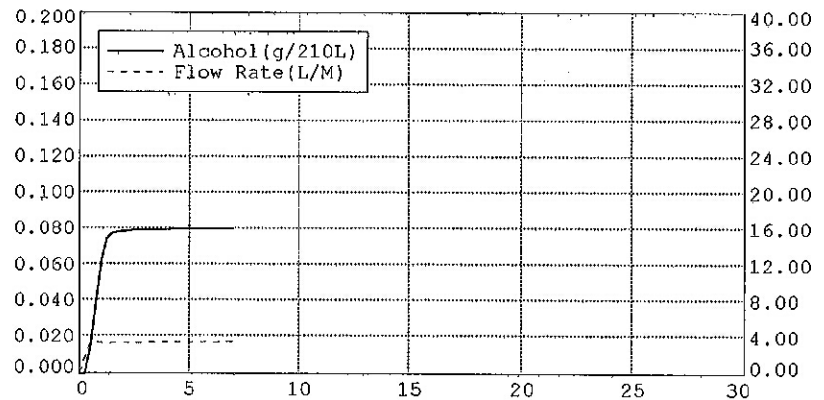
 Alaska Department of Public Safety
 DATAMASTER dmt: 100420

Date: 05/19/2011
 Time: 11:34:14

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.74; 0.079
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 11:35 |
| INTERNAL STANDARD | VERIFIED | 11:35 |
| EXTERNAL STANDARD | 0.081 | 11:36 |
| BLANK TEST | 0.000 | 11:37 |
| EXTERNAL STANDARD | 0.079 | 11:37 |
| BLANK TEST | 0.000 | 11:38 |
| EXTERNAL STANDARD | 0.080 | 11:38 |
| BLANK TEST | 0.000 | 11:39 |
| EXTERNAL STANDARD | 0.080 | 11:39 |
| BLANK TEST | 0.000 | 11:40 |
| EXTERNAL STANDARD | 0.080 | 11:40 |
| BLANK TEST | 0.000 | 11:41 |

Average = 0.0800
 Std Dev = 0.0007



LINEARITY CHECK: Control Test 4

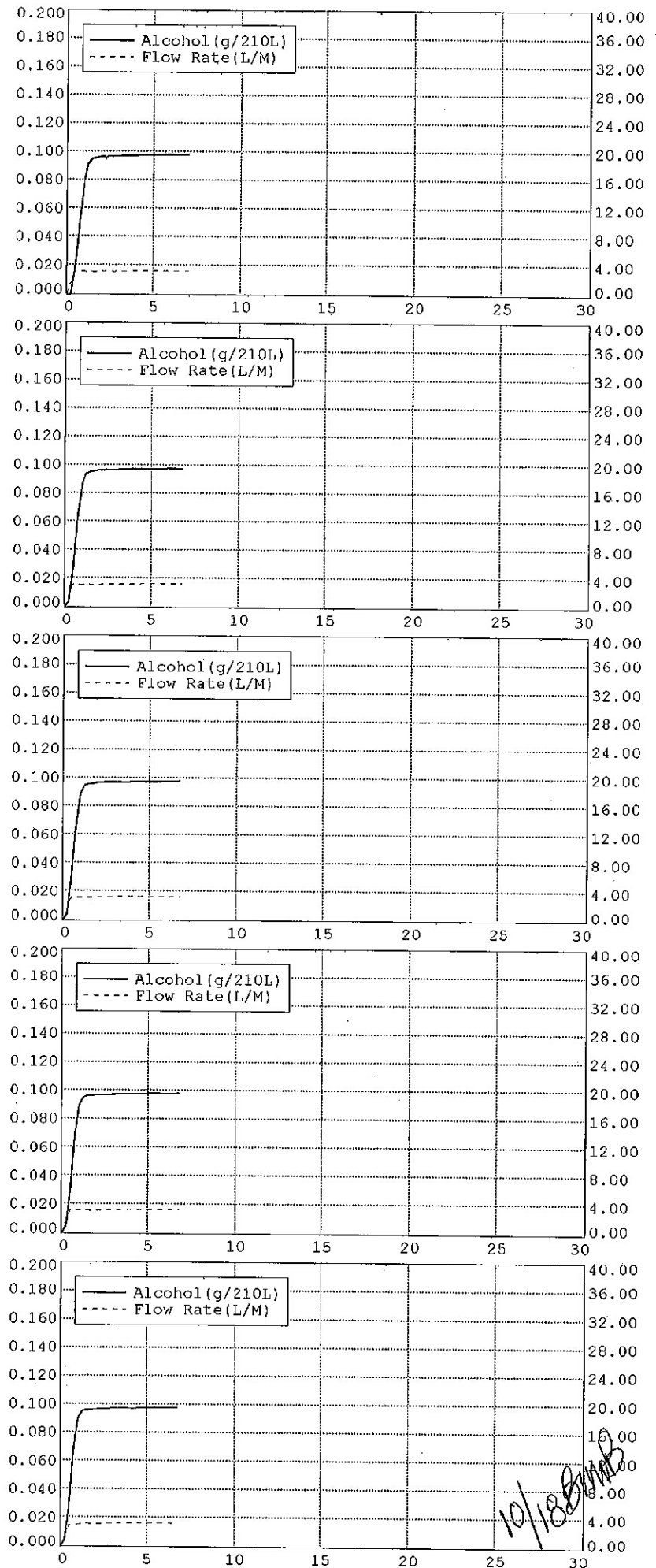
Alaska Department of Public Safety
 DATAMASTER dmt: 100420

Date: 05/19/2011
 Time: 11:43:02

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AT 29.74: 0.099
 LOT #: 05611100A2
 EXPIRATION: 03/01/2013

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 11:44 |
| INTERNAL STANDARD | VERIFIED | 11:44 |
| EXTERNAL STANDARD | 0.099 | 11:44 |
| BLANK TEST | 0.000 | 11:45 |
| EXTERNAL STANDARD | 0.098 | 11:45 |
| BLANK TEST | 0.000 | 11:46 |
| EXTERNAL STANDARD | 0.098 | 11:46 |
| BLANK TEST | 0.000 | 11:47 |
| EXTERNAL STANDARD | 0.099 | 11:47 |
| BLANK TEST | 0.000 | 11:48 |
| EXTERNAL STANDARD | 0.099 | 11:48 |
| BLANK TEST | 0.000 | 11:49 |

Average = 0.0986
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

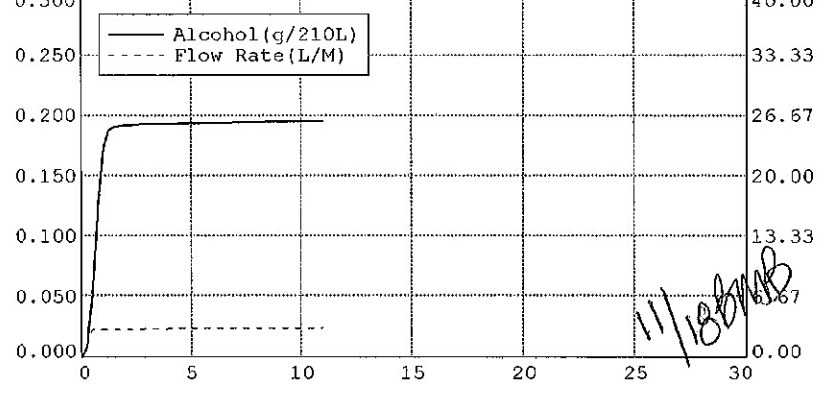
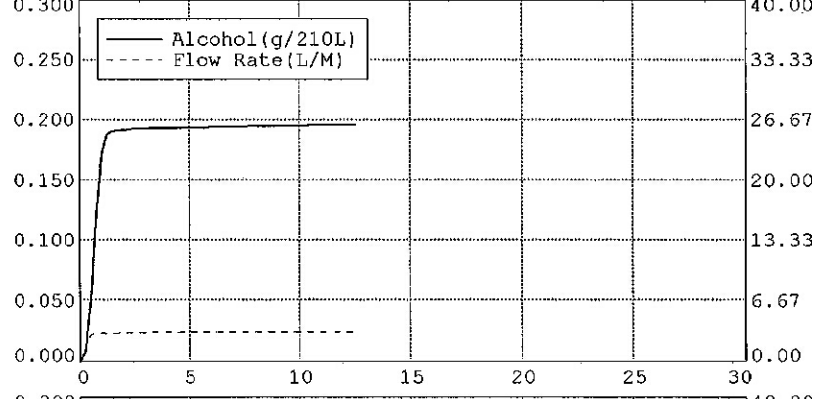
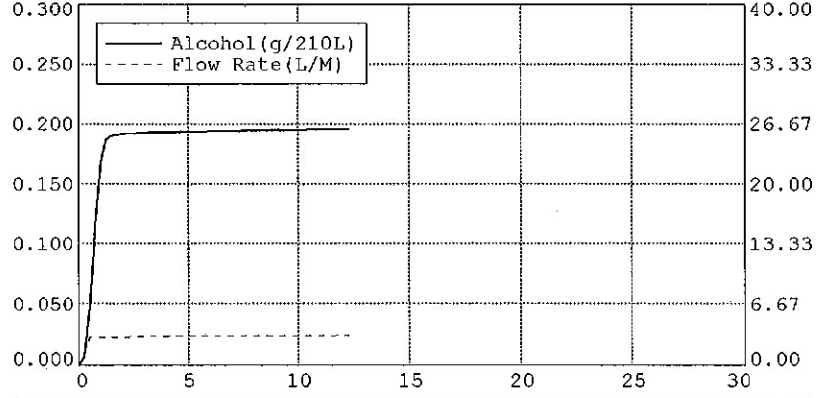
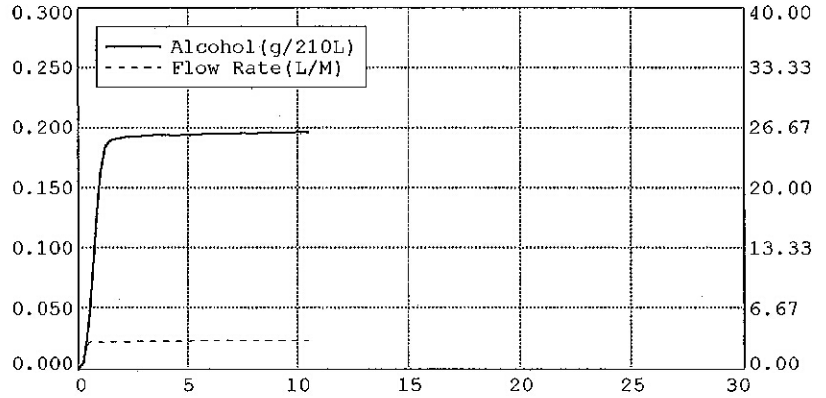
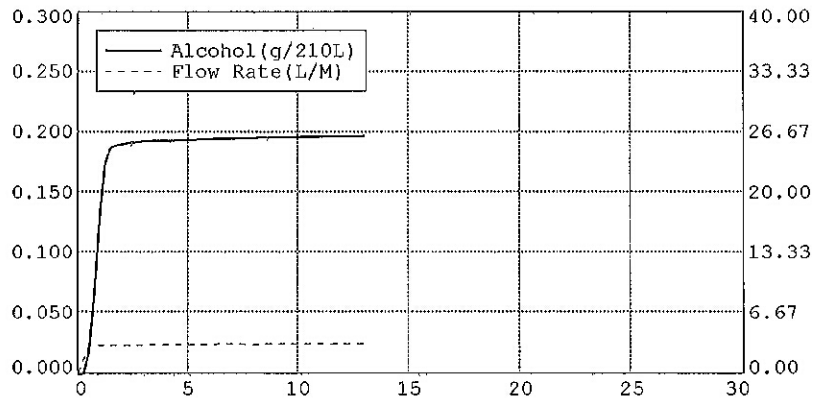
Alaska Department of Public Safety
 DATAMASTER dmt: 100420

Date: 05/19/2011
 Time: 12:39:53

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 TARGET AT 29.73; 0.198
 LOT #: 07611200A2
 EXPIRATION: 03/01/2013

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 12:40 |
| INTERNAL STANDARD | VERIFIED | 12:41 |
| EXTERNAL STANDARD | 0.197 | 12:41 |
| BLANK TEST | 0.000 | 12:42 |
| EXTERNAL STANDARD | 0.197 | 12:42 |
| BLANK TEST | 0.000 | 12:43 |
| EXTERNAL STANDARD | 0.197 | 12:44 |
| BLANK TEST | 0.000 | 12:45 |
| EXTERNAL STANDARD | 0.197 | 12:45 |
| BLANK TEST | 0.000 | 12:46 |
| EXTERNAL STANDARD | 0.196 | 12:46 |
| BLANK TEST | 0.000 | 12:47 |

Average = 0.1968
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

 Alaska Department of Public Safety
 DATAMASTER dmt: 100420

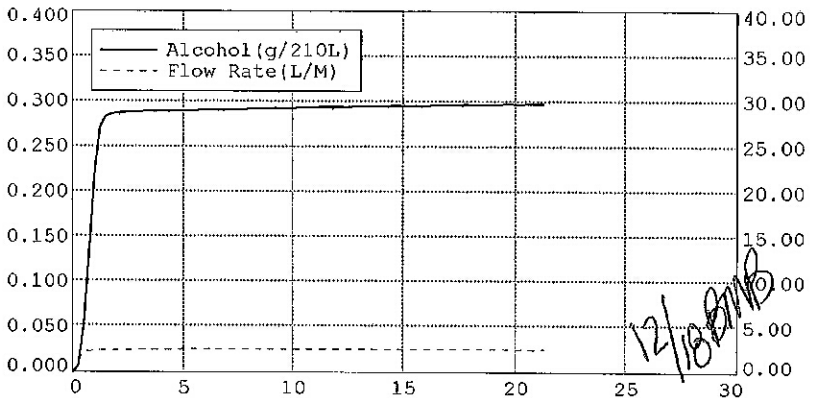
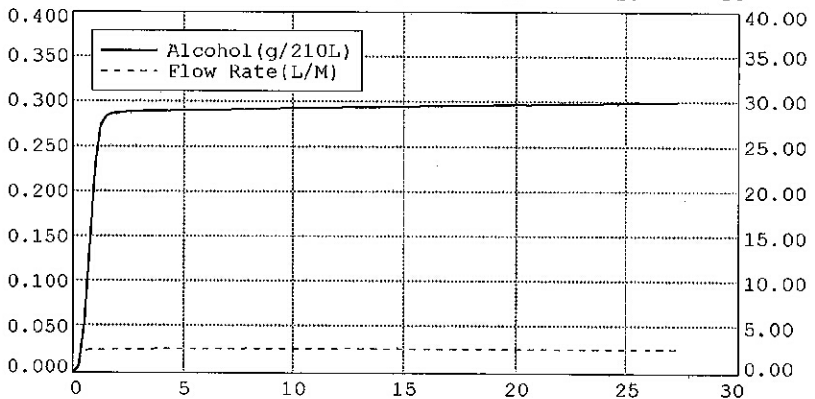
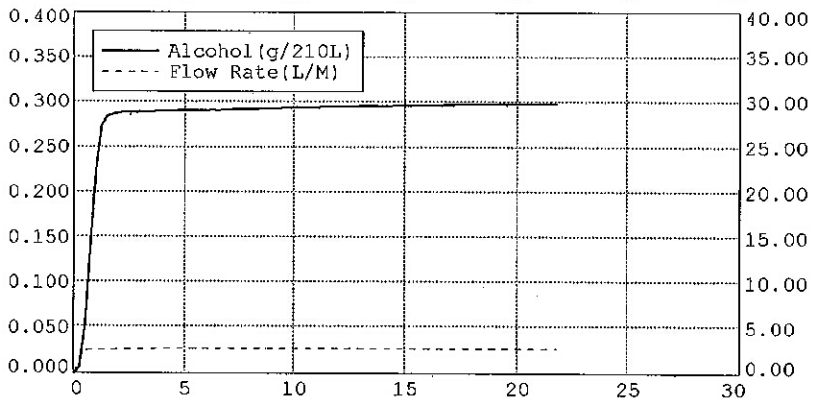
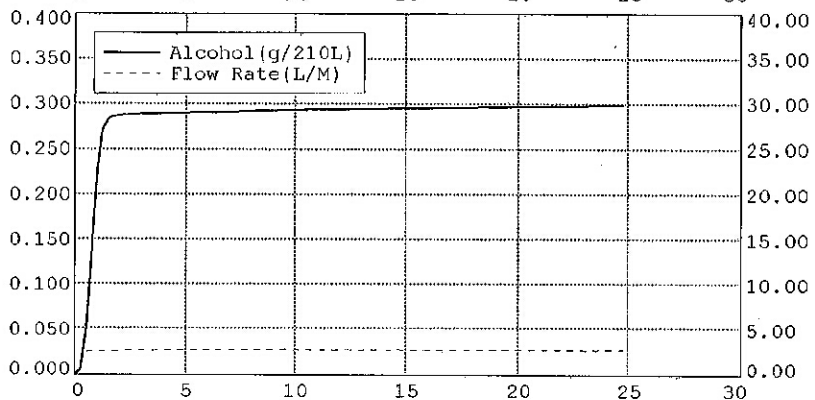
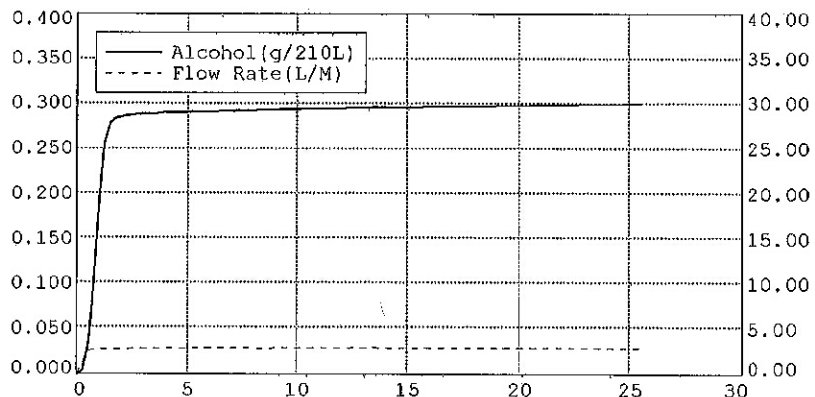
Date: 05/19/2011
 Time: 12:51:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.73: 0.298
 LOT #: 07611300A1
 EXPIRATION: 03/01/2013

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 12:52 |
| INTERNAL STANDARD | VERIFIED | 12:52 |
| EXTERNAL STANDARD | 0.300 | 12:53 |
| BLANK TEST | 0.000 | 12:54 |
| EXTERNAL STANDARD | 0.300 | 12:55 |
| BLANK TEST | 0.000 | 12:56 |
| EXTERNAL STANDARD | 0.299 | 12:56 |
| BLANK TEST | 0.000 | 12:57 |
| EXTERNAL STANDARD | 0.300 | 12:58 |
| BLANK TEST | 0.000 | 12:59 |
| EXTERNAL STANDARD | 0.298 | 13:00 |
| BLANK TEST | 0.000 | 13:01 |

Average = 0.2994
 Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100420

Date: 05/19/2011
 Time: 13:05:30

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

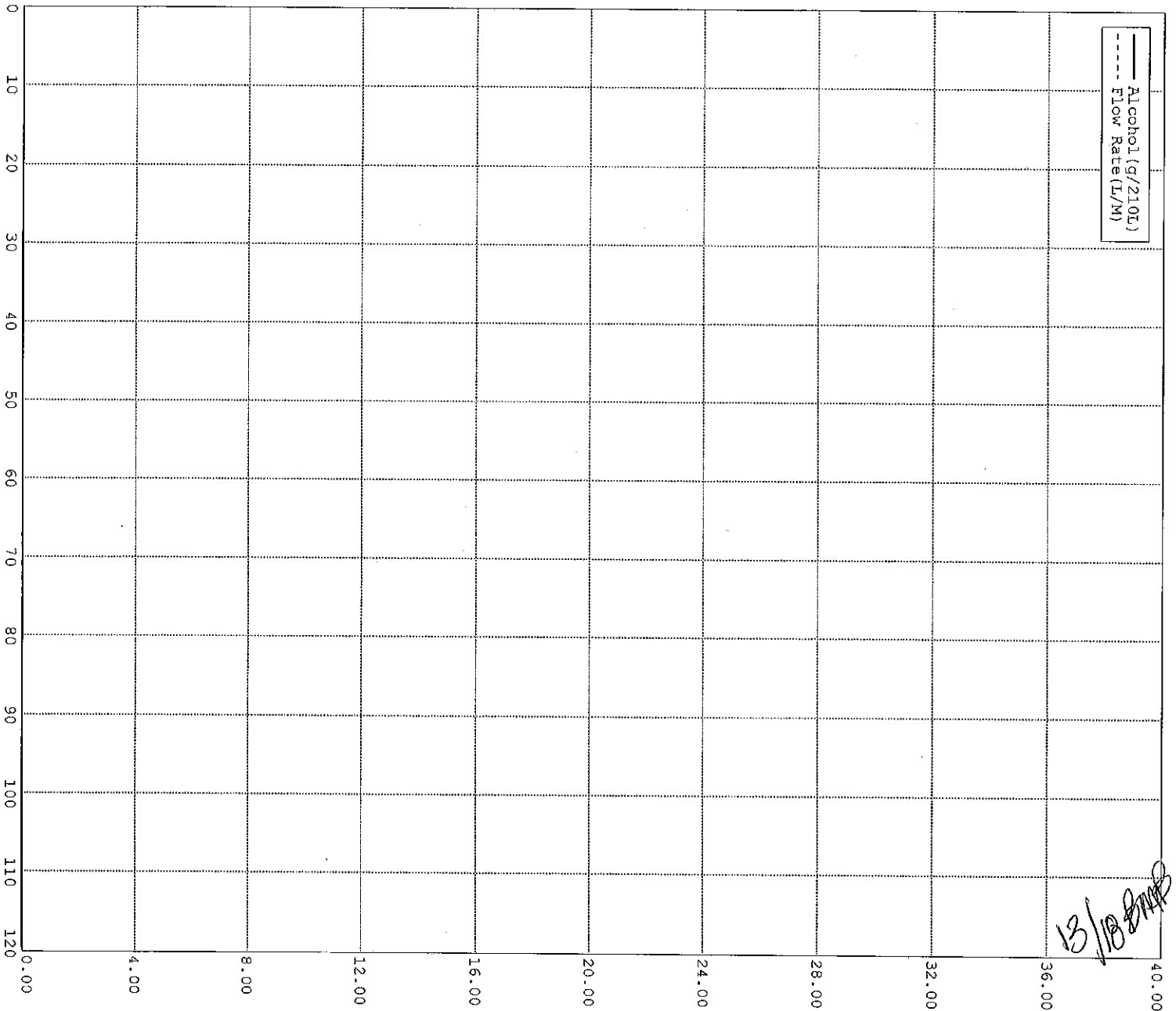
OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.72: 0.079
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

| | | |
|-------------------|------------|-------|
| DIAGNOSTIC CHECK | PASSED | 13:06 |
| BLANK TEST | 0.000 | 13:06 |
| INTERNAL STANDARD | VERIFIED | 13:06 |
| EXTERNAL STANDARD | 0.081 | 13:06 |
| BLANK TEST | 0.000 | 13:07 |
| SUBJECT SAMPLE | INCOMPLETE | 13:09 |

B11B



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 05/19/2011
Time: 13:14:32

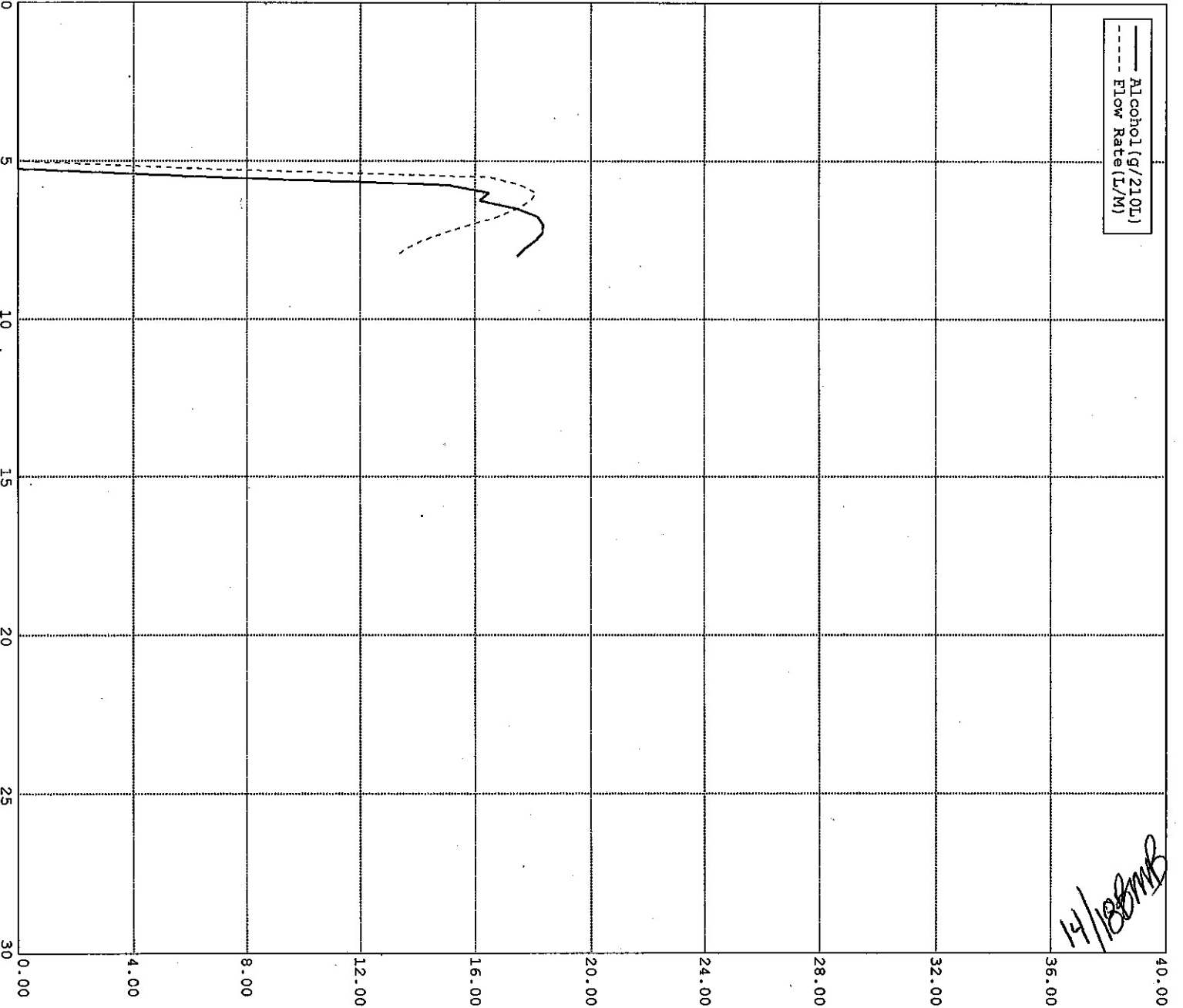
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INVALID XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

| | | |
|-------------------|----------|-------|
| DIAGNOSTIC CHECK | PASSED | 13:15 |
| BLANK TEST | 0.000 | 13:15 |
| INTERNAL STANDARD | VERIFIED | 13:15 |
| EXTERNAL STANDARD | 0.079 | 13:16 |
| BLANK TEST | 0.000 | 13:17 |
| SUBJECT SAMPLE | Invalid | 13:17 |



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 05/19/2011
Time: 13:24:41

SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERE

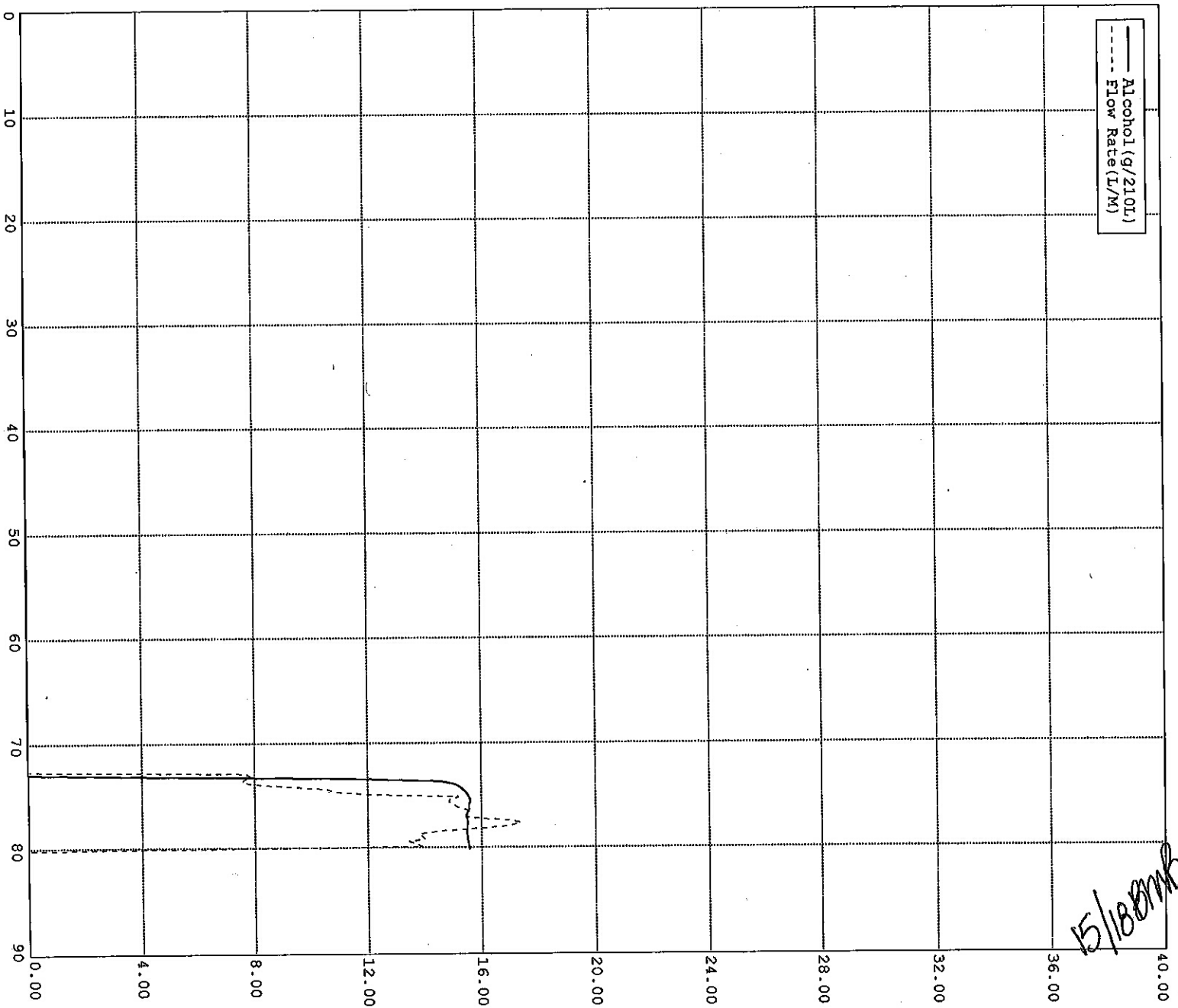
OPERATOR NAME:
ETHANOL AND ACETONE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AP 29.72: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

| | | |
|-------------------|--------------|-------|
| DIAGNOSTIC CHECK | PASSED | 13:25 |
| BLANK TEST | 0.000 | 13:25 |
| INTERNAL STANDARD | VERIFIED | 13:25 |
| EXTERNAL STANDARD | 0.079 | 13:26 |
| BLANK TEST | 0.000 | 13:27 |
| SUBJECT SAMPLE | INTERFERENCE | 13:28 |

BMB



15/18 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100420

Date: 05/19/2011
 Time: 13:30:29

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

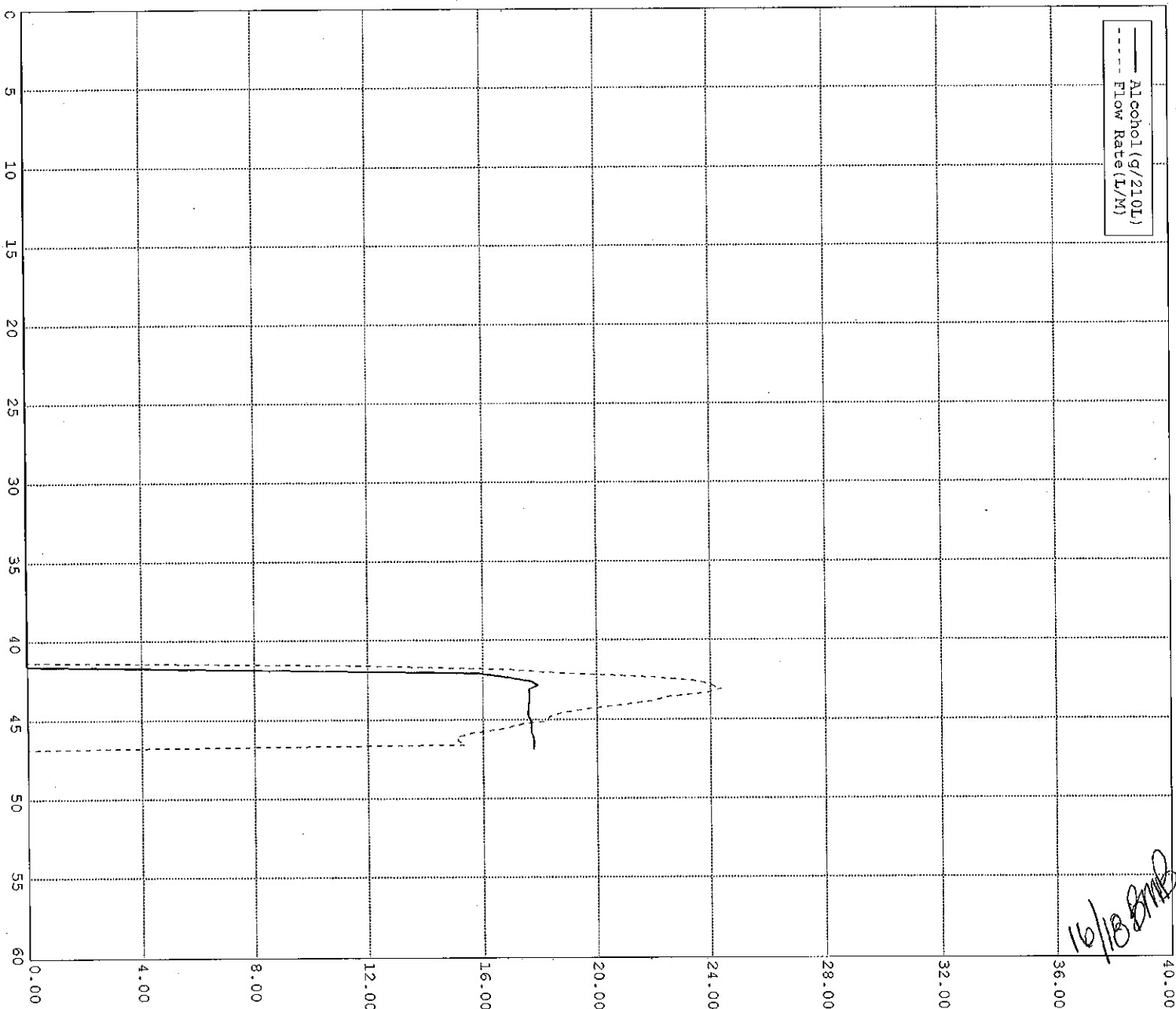
OPERATOR NAME:
 ETHANOL AND ISOEROPANOL
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.72: 0.079
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

| | | |
|-------------------|--------------|-------|
| DIAGNOSTIC CHECK | PASSED | 13:31 |
| BLANK TEST | 0.000 | 13:31 |
| INTERNAL STANDARD | VERIFIED | 13:31 |
| EXTERNAL STANDARD | 0.081 | 13:32 |
| BLANK TEST | 0.000 | 13:33 |
| SUBJECT SAMPLE | INTERFERENCE | 13:34 |

BMB



SUBJECT TEST

Alaska Department of Public Safety
PARAMASTER dmt: 100420

Date: 05/19/2011
Time: 13:38:53

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

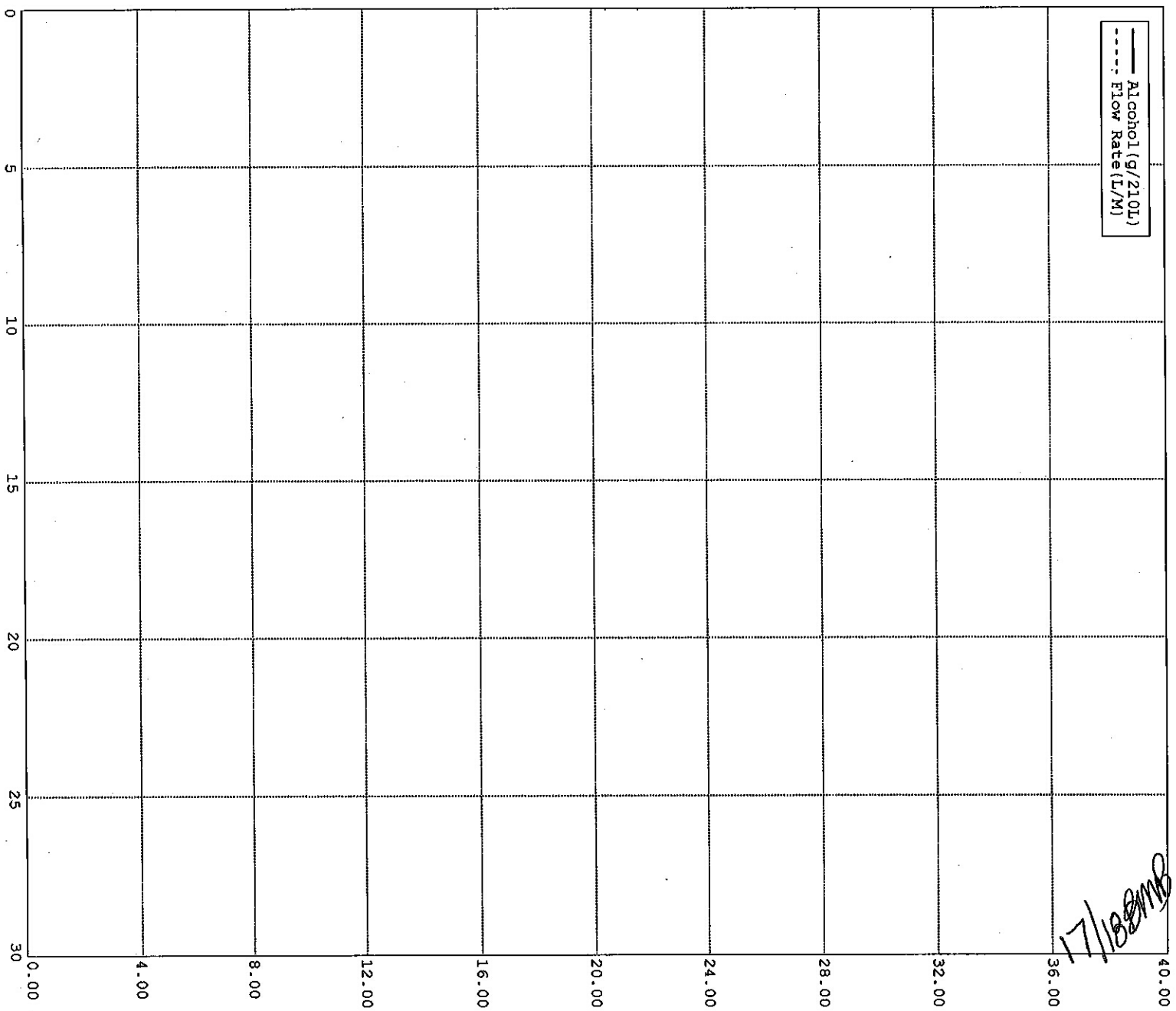
OPERATOR NAME:
XXX XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AF 29.72: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK
BLANK TEST PASSED 13:40
INTERNAL STANDARD VERIFIED 13:40
EXTERNAL STANDARD 0.080 13:40
BLANK TEST 0.000 13:41

RFI Detected



Handwritten signature and date: 5/17/2011

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100420

Date: 05/19/2011
 Time: 14:01:48

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

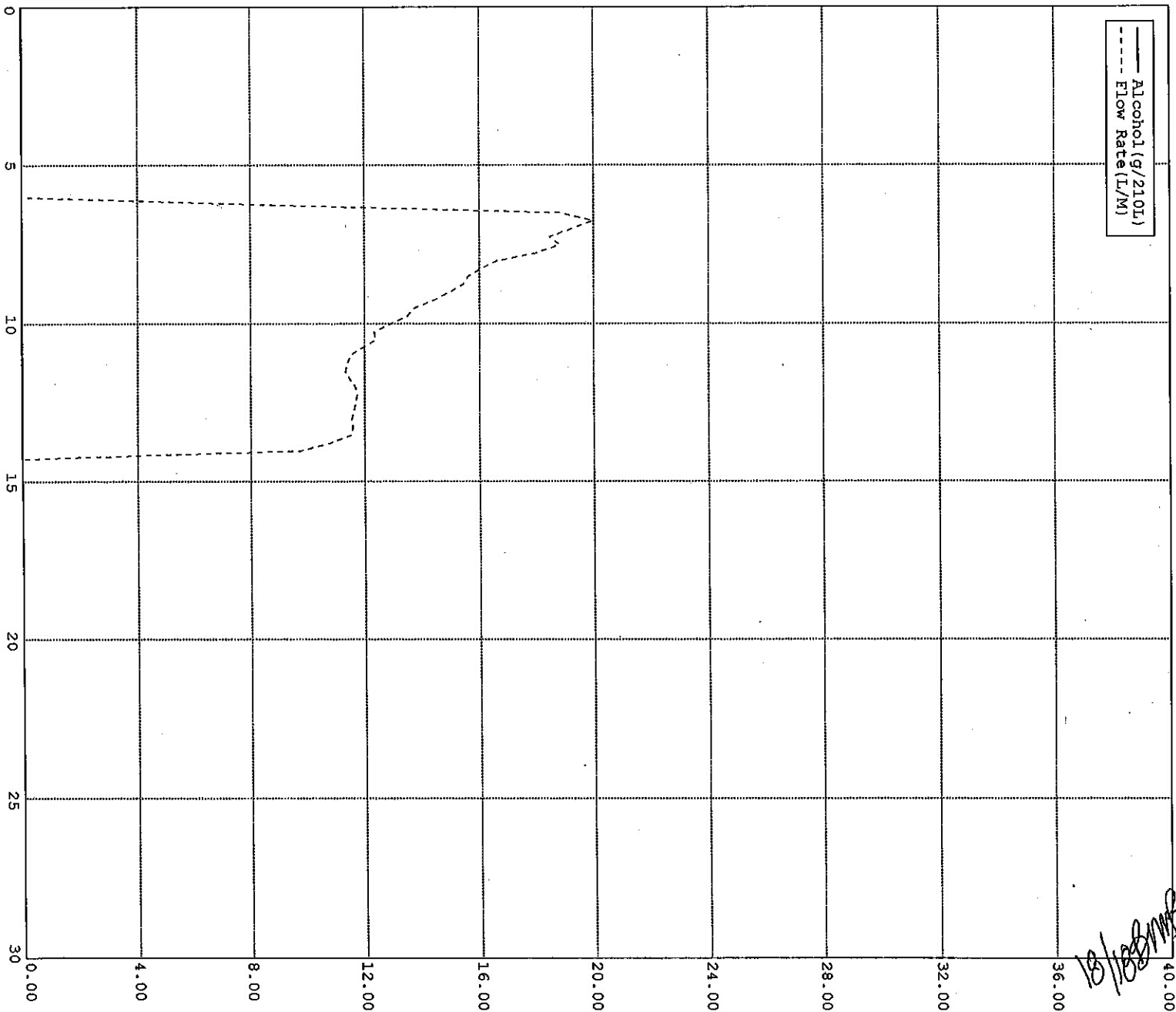
OPERATOR NAME:
 BRANDI W BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.71: 0.079
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK | PASSED | 14:03 |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 14:03 |
| INTERNAL STANDARD | VERIFIED | 14:03 |
| EXTERNAL STANDARD | 0.081 | 14:04 |
| BLANK TEST | 0.000 | 14:05 |
| SUBJECT SAMPLE | 0.000 | 14:05 |
| BLANK TEST | 0.000 | 14:06 |
| EXTERNAL STANDARD | 0.080 | 14:06 |
| BLANK TEST | 0.000 | 14:07 |

Handwritten signature: BMB



Handwritten signature and date: BMB 5/19/2011

Final page for report

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2/18/2014