

|                                                                                  |                                                       |                          |                      |
|----------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------|----------------------|
|  | 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 # 100404Analyst 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 02/01/2013ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 02/01/2013iii. 0.080g/210L Mnf ILMO Lot 02511080A2 Exp 02/01/2013iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 03/01/2013v. 0.200g/210L Mnf ILMO Lot 07611200A2 Exp 03/01/2013vi. 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 12/2/20111. Simulator Calibration Date 10/18/2010 SN DR6267ii. Isopropanol - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/20111. Simulator Calibration Date 08/04/2010 SN SD202d. 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  
DATAMASTER dmt: 100404  
-----

Date: 05/19/2011  
Time: 10:28:02

## VERSIONS

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

## TEMPERATURES

|                         |        |
|-------------------------|--------|
| Sample Chamber = 49.0°C | PASSED |
| Breath Tube = 46.0°C    | PASSED |

## PUMP INFO

|                       |        |
|-----------------------|--------|
| Flow Rate = 5.109 L/M | PASSED |
|-----------------------|--------|

## DETECTOR INFO

|          |        |
|----------|--------|
| PUMP ON  | PASSED |
| PUMP OFF | PASSED |

## FILTER INFO

|          |        |
|----------|--------|
| Filter 1 | PASSED |
| Filter 2 | PASSED |
| Filter 3 | PASSED |

## INTERNAL STANDARD

|                   |        |
|-------------------|--------|
| INTERNAL STANDARD | PASSED |
|-------------------|--------|

2/10/08 MB

Technician Screen

-----  
DATAMASTER dmt: 100404  
-----

Date: 05/19/2011

Time: 10:46 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 46.0°C

Current Barometer 29.7 in

Volume (ltr) 1.54

Settings

Lamp: 1.77 V

Bias: 82 V

Cooler: 1.68 V

Chopper: 525 Hz

Voltages (V)

Flow: 1.07 V

Detector: 0.120 V

3/18/11 MB

## CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100404  
-----

Date: 05/18/2011  
Time: 14:02:44

SUPERVISOR NAME:  
COLLEEN S OBRYANT  
CERTIFICATE #: 6237

LOT #: GUTH100  
BOTTLE #: 10260  
EXPIRATION: 01/01/2012

|     |   |          |        |                |
|-----|---|----------|--------|----------------|
| Ca  | = | 0.1000   |        |                |
| CAL | = | 0.970035 | 0.800  | <= CAL < 1.200 |
| b1  | = | 0.0005   | 0.0000 | <= b1 < 0.0040 |
| b2  | = | 0.0071   | 0.0010 | <= b2 < 0.0100 |
| b3  | = | 0.0001   | 0.0000 | <= b3 < 0.0040 |
| Xq  | = | 0.0888   | 0.0500 | <= Xq < 0.2000 |
| a21 | = | 1.183100 | 1.050  | <= a21 < 1.300 |
| a31 | = | 0.434619 | 0.300  | <= a31 < 0.800 |

4/18/11  
BMB

# SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100404

Date: 05/19/2011  
Time: 10:47:17

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

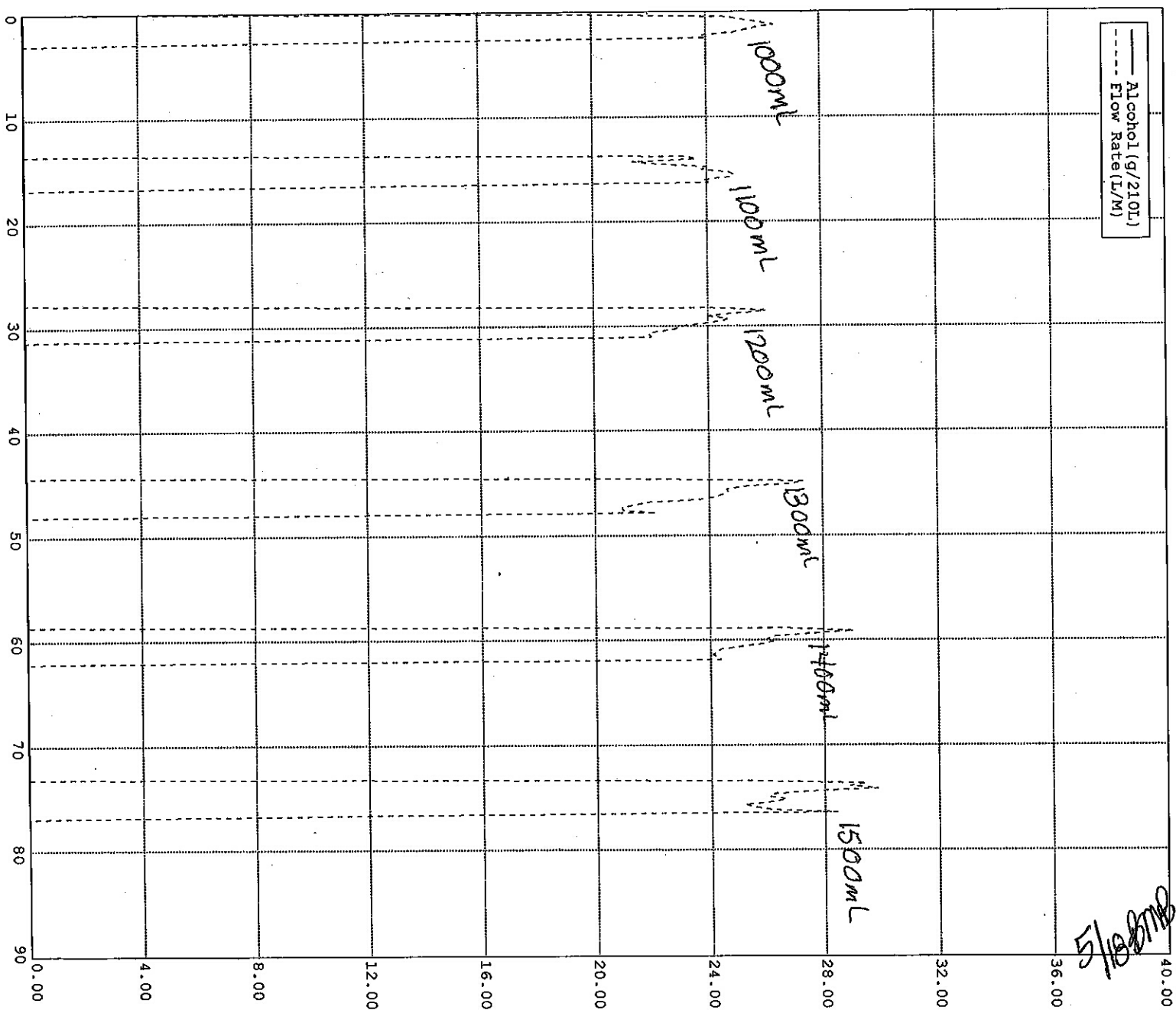
OPERATOR NAME:  
MINIMUM VOLUME  
OPERATOR'S #: XXXX

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

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

| DIAGNOSTIC CHECK  | PASSED   | 10:48 |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:49 |
| INTERNAL STANDARD | VERIFIED | 10:49 |
| EXTERNAL STANDARD | 0.080    | 10:49 |
| BLANK TEST        | 0.000    | 10:50 |
| SUBJECT SAMPLE    | 0.000    | 10:51 |
| BLANK TEST        | 0.000    | 10:52 |
| EXTERNAL STANDARD | 0.080    | 10:52 |
| BLANK TEST        | 0.000    | 10:53 |

BMB

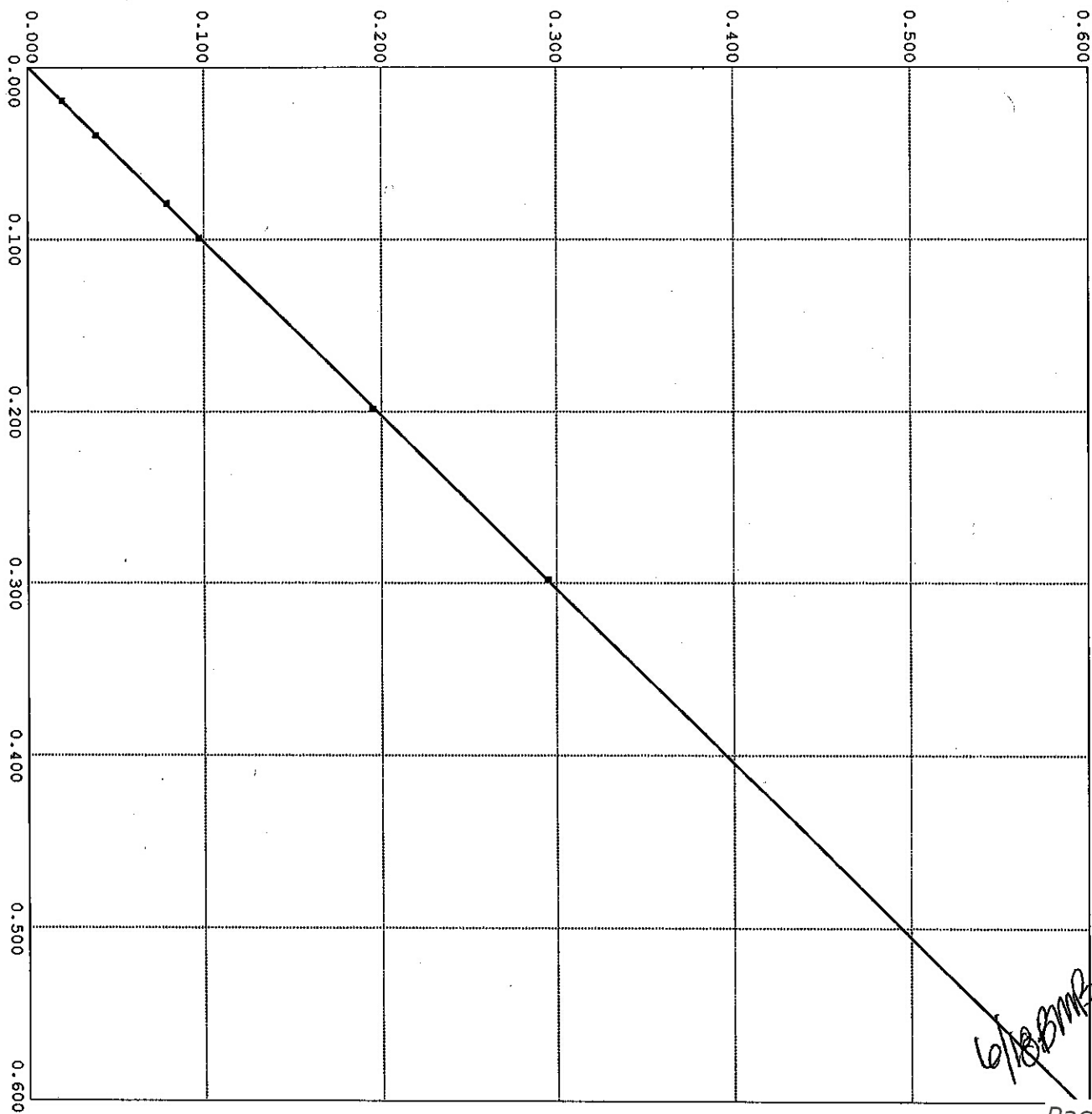


## LINEARITY CHECK

Alaska Department of Public Safety  
DATAMASTER dnt: 100404Date: 05/19/2011  
Time: 11:05:53SUPERVISOR NAME:  
BRANDI M BARNETT  
OPERATOR'S #: 7038

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.019  | 0.0200  | 0.0000    |
| 0.039  | 0.0392  | 0.0004    |
| 0.079  | 0.0796  | 0.0005    |
| 0.099  | 0.0980  | 0.0000    |
| 0.198  | 0.1958  | 0.0016    |
| 0.297  | 0.2956  | 0.0009    |

SLOPE = 0.990492  
 $R^2$  = 0.999975



BMB

6/10/11 BMB

## LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100404

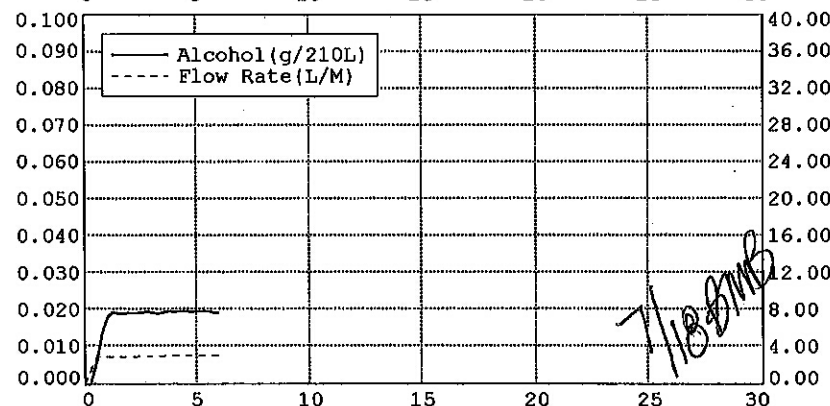
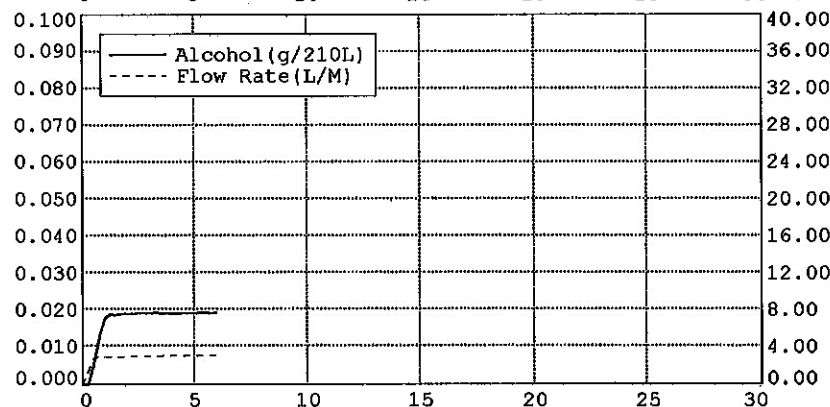
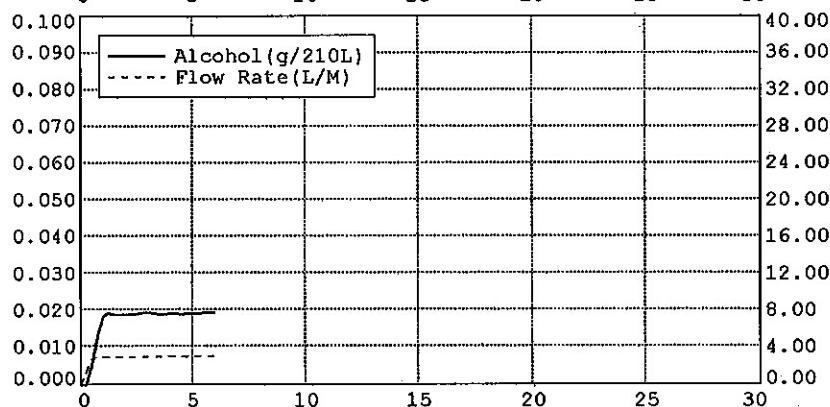
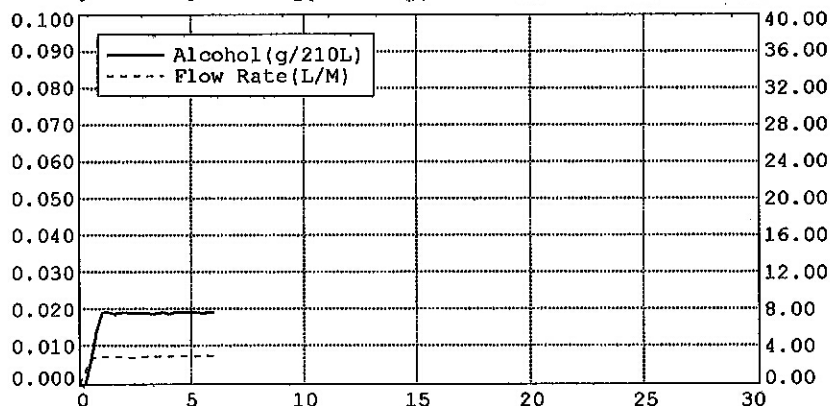
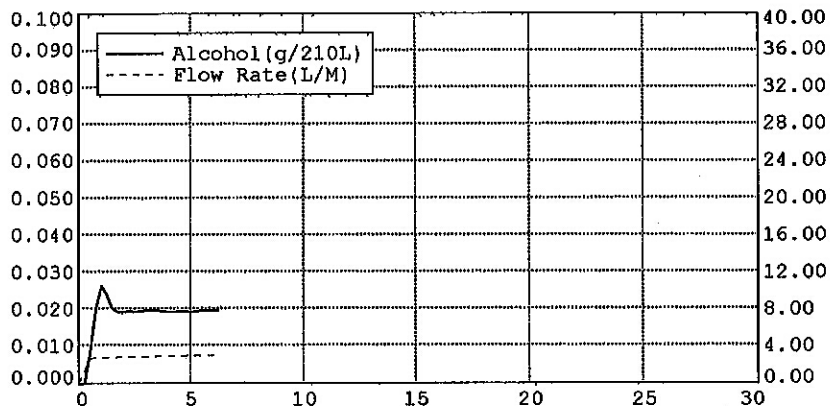
Date: 05/19/2011  
Time: 11:05:55

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.70: 0.019  
LOT #: 02811020A1  
EXPIRATION: 02/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:07 |
| INTERNAL STANDARD | VERIFIED | 11:07 |
| EXTERNAL STANDARD | 0.020    | 11:07 |
| BLANK TEST        | 0.000    | 11:08 |
| EXTERNAL STANDARD | 0.020    | 11:08 |
| BLANK TEST        | 0.000    | 11:09 |
| EXTERNAL STANDARD | 0.020    | 11:09 |
| BLANK TEST        | 0.000    | 11:10 |
| EXTERNAL STANDARD | 0.020    | 11:10 |
| BLANK TEST        | 0.000    | 11:11 |
| EXTERNAL STANDARD | 0.020    | 11:11 |
| BLANK TEST        | 0.000    | 11:12 |

Average = 0.0200  
Std Dev = 0.0000



## LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100404

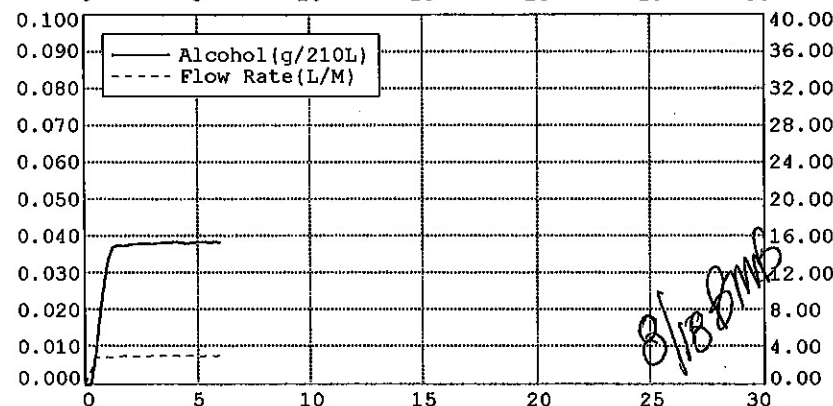
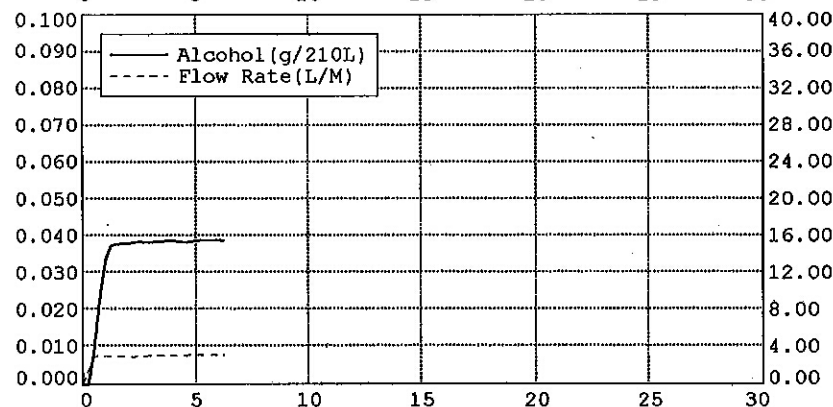
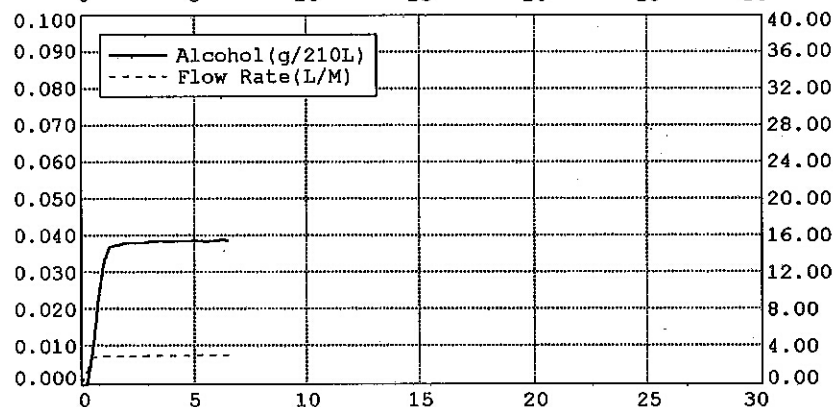
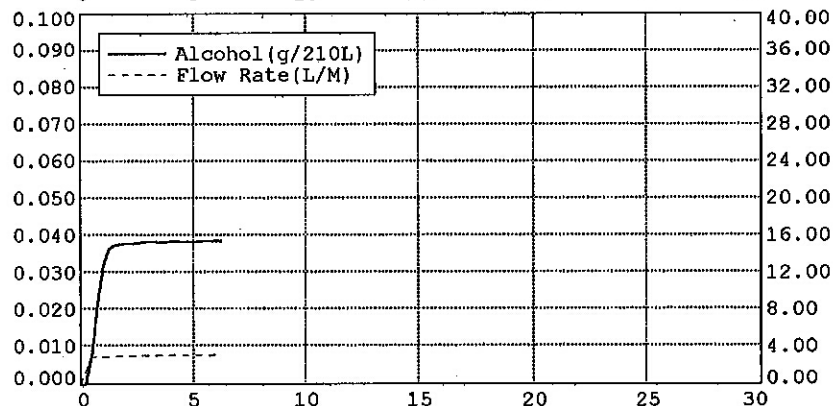
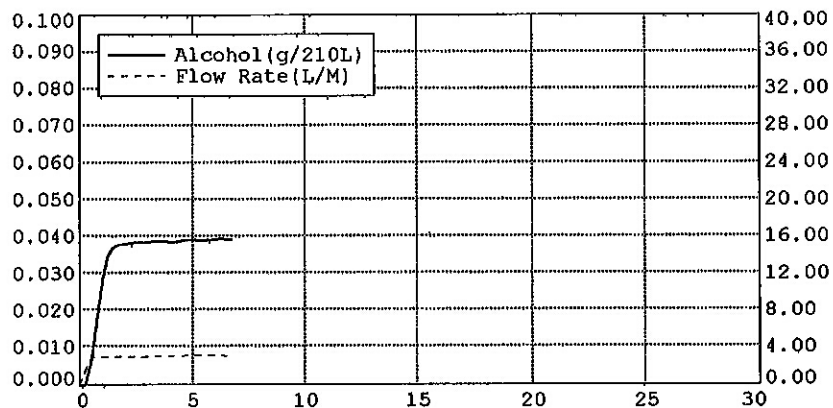
Date: 05/19/2011  
Time: 11:14:22

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
TARGET AT 29.70: 0.039  
LOT #: 02811040A2  
EXPIRATION: 02/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:15 |
| INTERNAL STANDARD | VERIFIED | 11:15 |
| EXTERNAL STANDARD | 0.040    | 11:15 |
| BLANK TEST        | 0.000    | 11:16 |
| EXTERNAL STANDARD | 0.039    | 11:17 |
| BLANK TEST        | 0.000    | 11:17 |
| EXTERNAL STANDARD | 0.039    | 11:18 |
| BLANK TEST        | 0.000    | 11:19 |
| EXTERNAL STANDARD | 0.039    | 11:19 |
| BLANK TEST        | 0.000    | 11:20 |
| EXTERNAL STANDARD | 0.039    | 11:20 |
| BLANK TEST        | 0.000    | 11:21 |

Average = 0.0392  
Std Dev = 0.0004



## LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100404

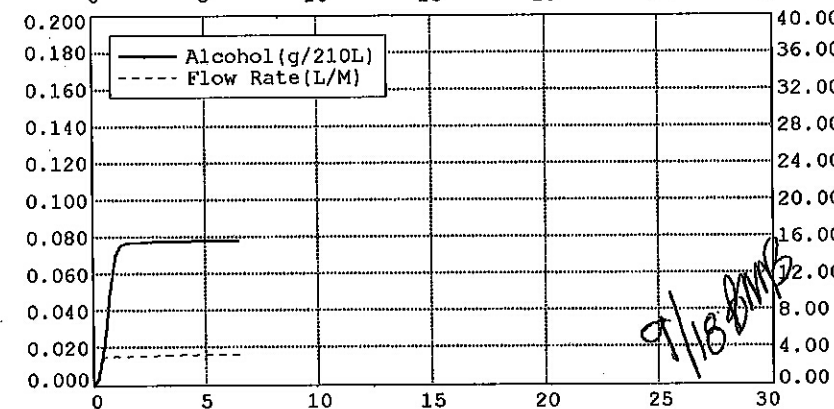
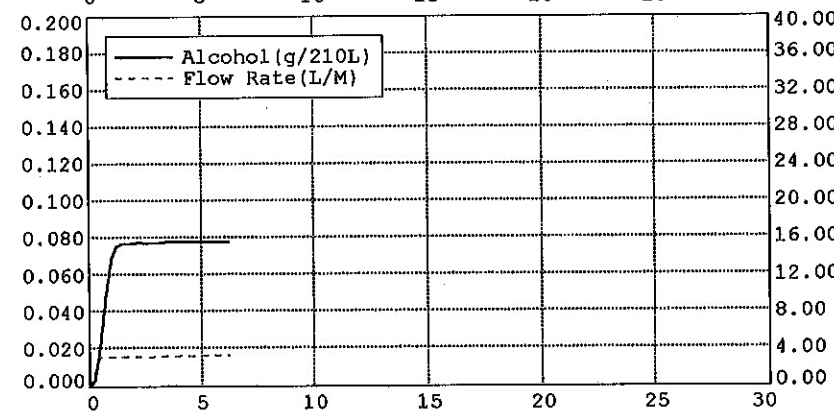
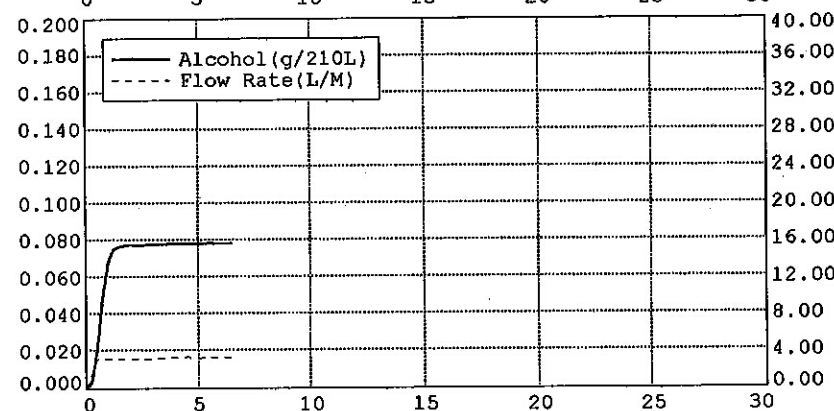
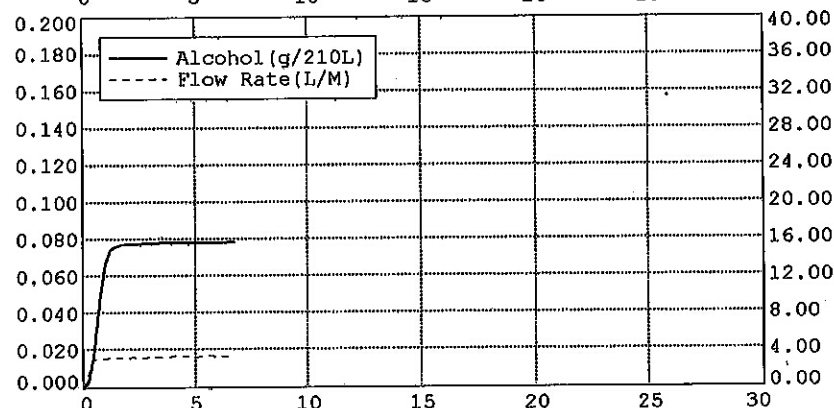
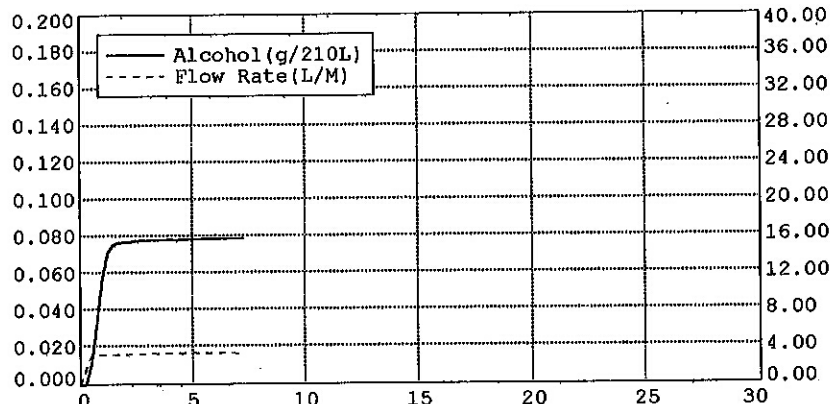
Date: 05/19/2011  
Time: 11:22:48

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.70: 0.079  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:23 |
| INTERNAL STANDARD | VERIFIED | 11:23 |
| EXTERNAL STANDARD | 0.080    | 11:24 |
| BLANK TEST        | 0.000    | 11:25 |
| EXTERNAL STANDARD | 0.080    | 11:25 |
| BLANK TEST        | 0.000    | 11:26 |
| EXTERNAL STANDARD | 0.080    | 11:26 |
| BLANK TEST        | 0.000    | 11:27 |
| EXTERNAL STANDARD | 0.079    | 11:27 |
| BLANK TEST        | 0.000    | 11:28 |
| EXTERNAL STANDARD | 0.079    | 11:28 |
| BLANK TEST        | 0.000    | 11:29 |

Average = 0.0796  
Std Dev = 0.0005



## LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
DATAMASTER dmt: 100404

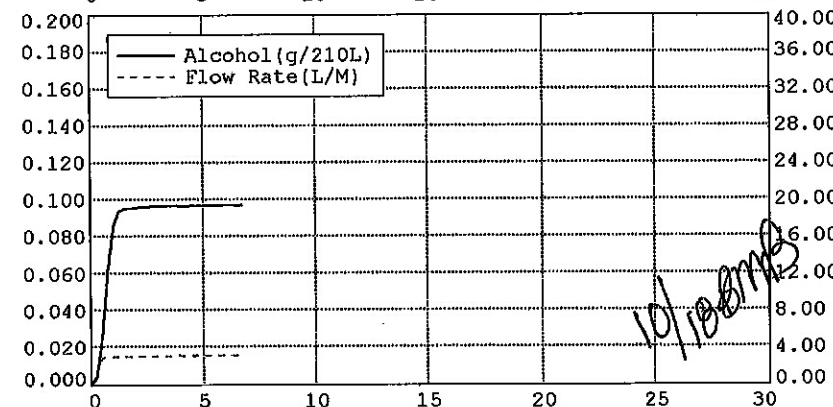
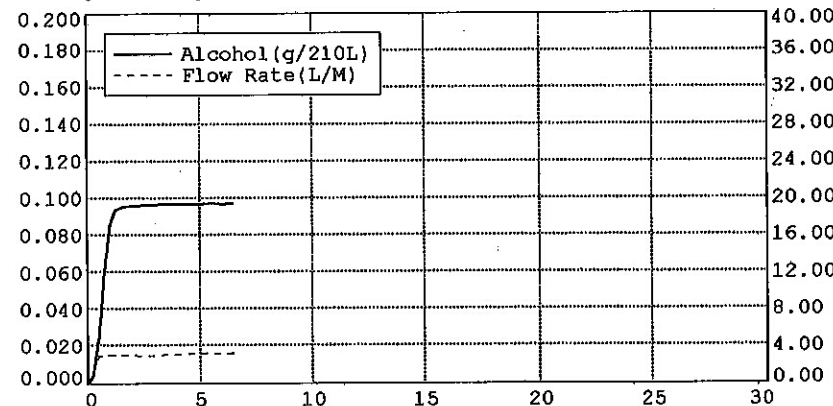
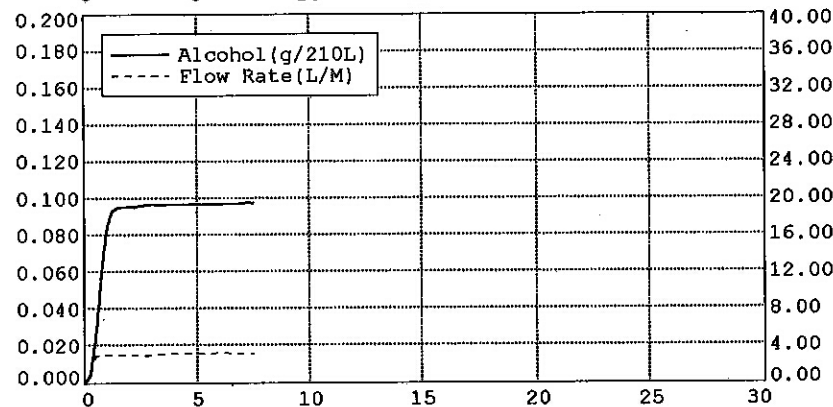
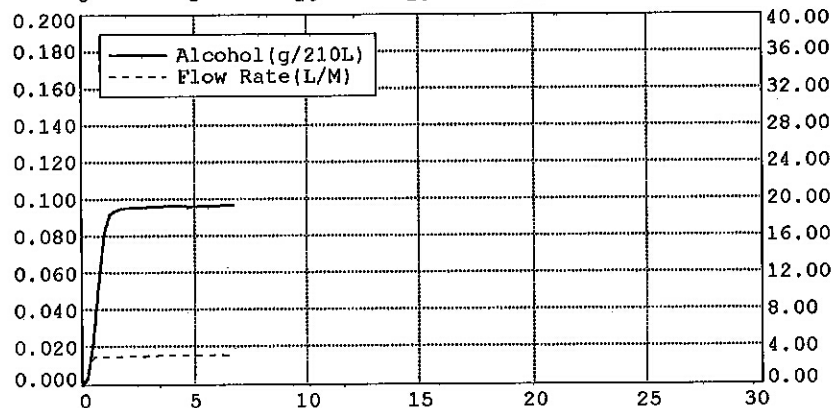
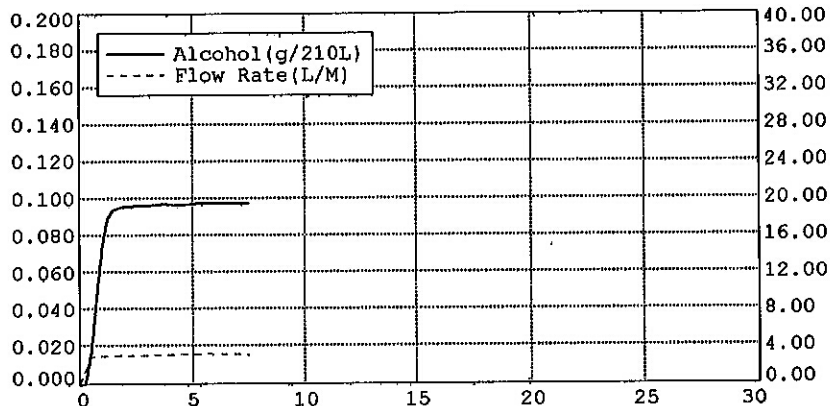
Date: 05/19/2011  
Time: 11:31:03

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
TARGET AT 29.70: 0.099  
LOT #: 05611100A2  
EXPIRATION: 03/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:32 |
| INTERNAL STANDARD | VERIFIED | 11:32 |
| EXTERNAL STANDARD | 0.098    | 11:32 |
| BLANK TEST        | 0.000    | 11:33 |
| EXTERNAL STANDARD | 0.098    | 11:33 |
| BLANK TEST        | 0.000    | 11:34 |
| EXTERNAL STANDARD | 0.098    | 11:34 |
| BLANK TEST        | 0.000    | 11:35 |
| EXTERNAL STANDARD | 0.098    | 11:35 |
| BLANK TEST        | 0.000    | 11:36 |
| EXTERNAL STANDARD | 0.098    | 11:36 |
| BLANK TEST        | 0.000    | 11:37 |

Average = 0.0980  
Std Dev = 0.0000



## LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
DATAMASTER dmt: 100404

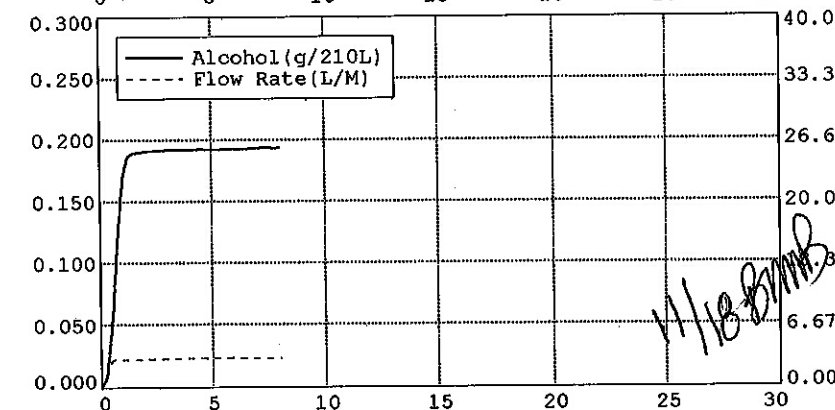
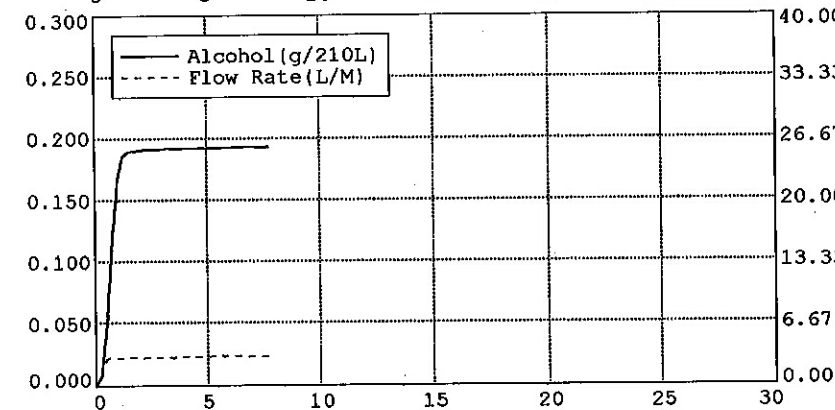
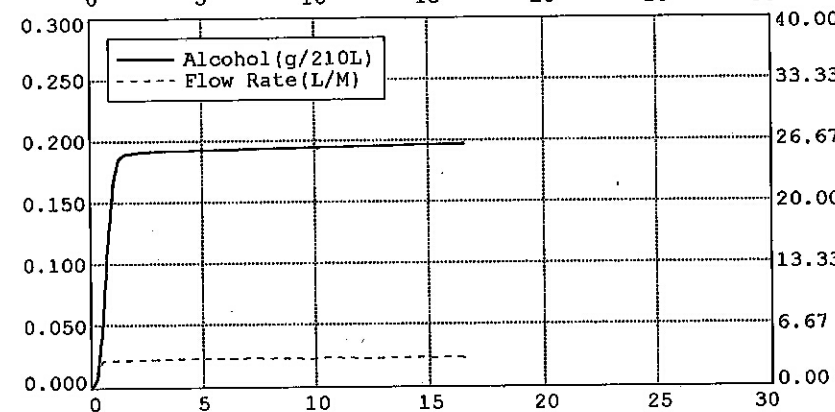
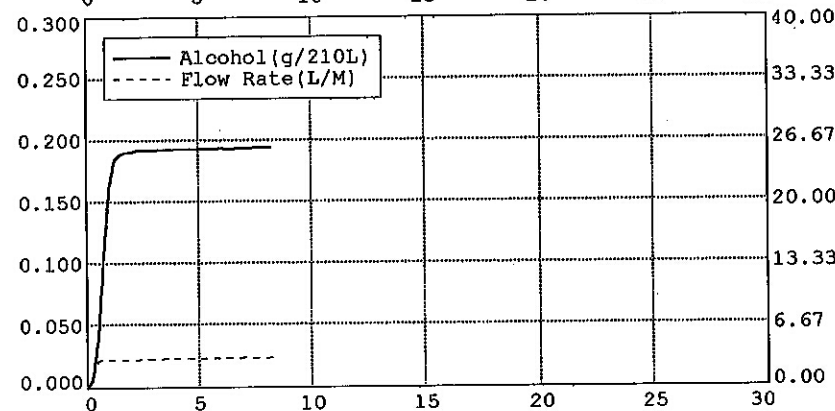
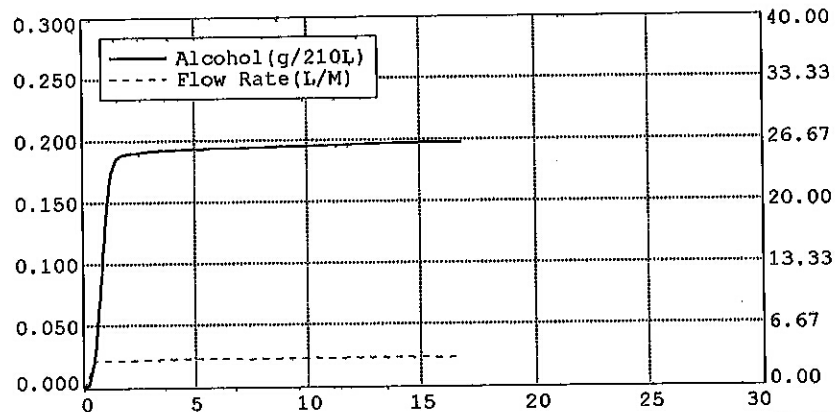
Date: 05/19/2011  
Time: 11:38:51

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200  
TARGET AT 29.70: 0.198  
LOT #: 07611200A2  
EXPIRATION: 03/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:39 |
| INTERNAL STANDARD | VERIFIED | 11:40 |
| EXTERNAL STANDARD | 0.198    | 11:40 |
| BLANK TEST        | 0.000    | 11:41 |
| EXTERNAL STANDARD | 0.195    | 11:41 |
| BLANK TEST        | 0.000    | 11:42 |
| EXTERNAL STANDARD | 0.197    | 11:42 |
| BLANK TEST        | 0.000    | 11:43 |
| EXTERNAL STANDARD | 0.194    | 11:44 |
| BLANK TEST        | 0.000    | 11:45 |
| EXTERNAL STANDARD | 0.195    | 11:45 |
| BLANK TEST        | 0.000    | 11:46 |

Average = 0.1958  
Std Dev = 0.0016



## LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
DATAMASTER dmt: 100404

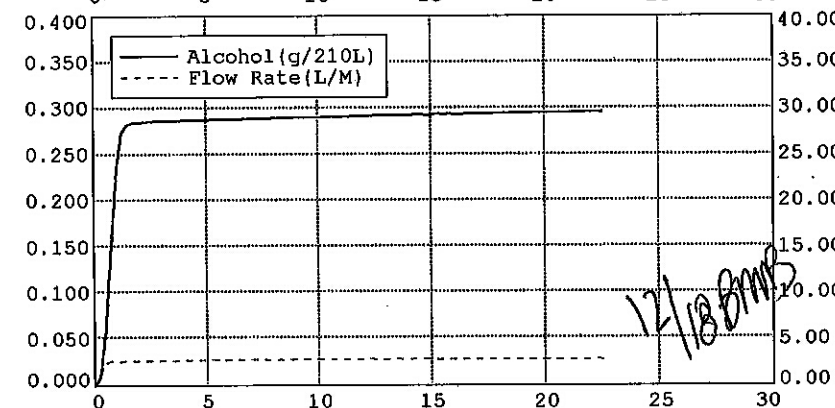
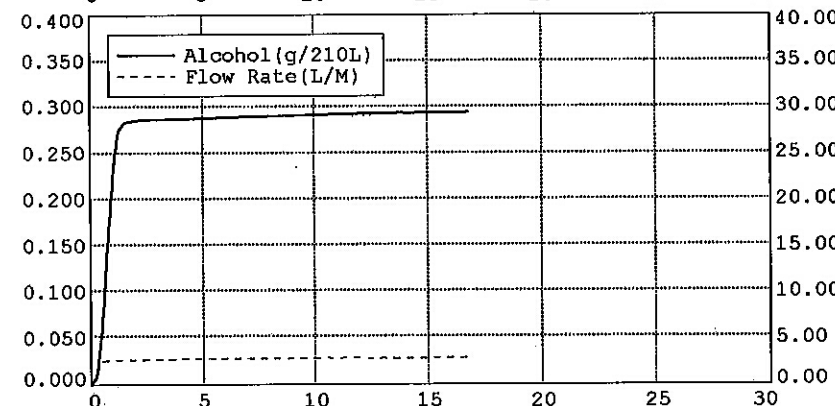
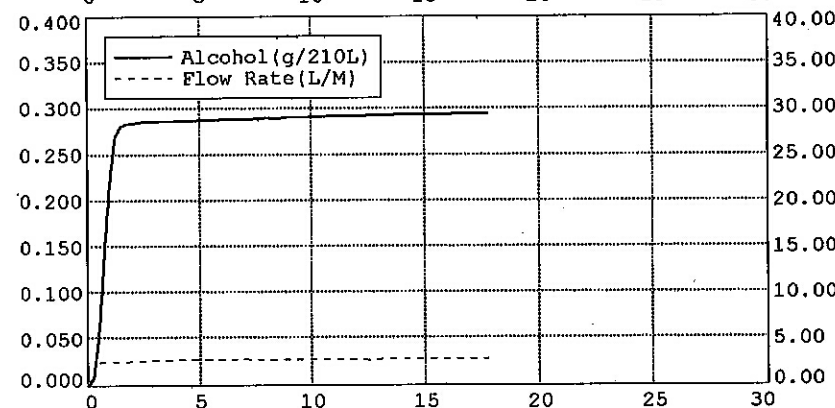
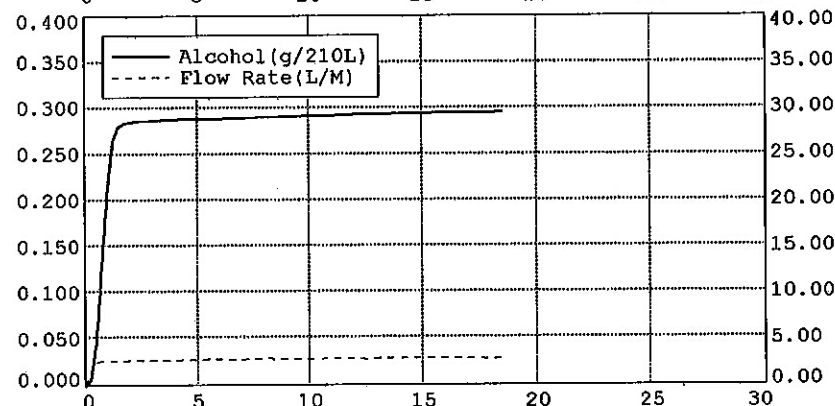
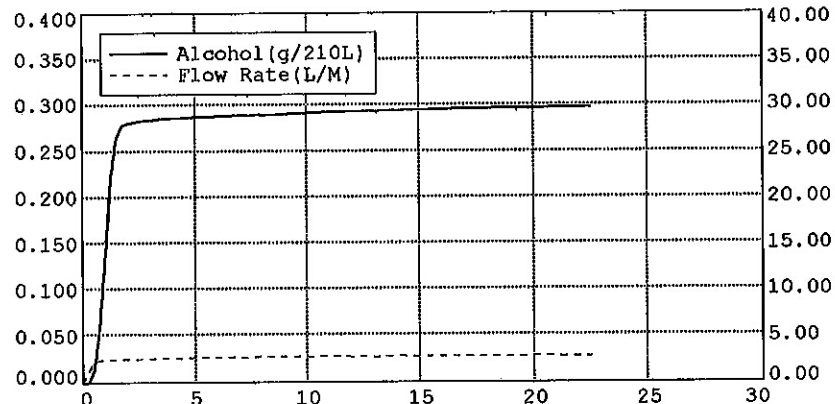
Date: 05/19/2011  
Time: 12:36:52

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 29.69: 0.297  
LOT #: 07611300A1  
EXPIRATION: 03/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 12:38 |
| INTERNAL STANDARD | VERIFIED | 12:38 |
| EXTERNAL STANDARD | 0.297    | 12:39 |
| BLANK TEST        | 0.000    | 12:40 |
| EXTERNAL STANDARD | 0.295    | 12:40 |
| BLANK TEST        | 0.000    | 12:41 |
| EXTERNAL STANDARD | 0.295    | 12:42 |
| BLANK TEST        | 0.000    | 12:42 |
| EXTERNAL STANDARD | 0.295    | 12:43 |
| BLANK TEST        | 0.000    | 12:44 |
| EXTERNAL STANDARD | 0.296    | 12:44 |
| BLANK TEST        | 0.000    | 12:45 |

Average = 0.2956  
Std Dev = 0.0009



## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100404

Date: 05/19/2011  
 Time: 13:01:02

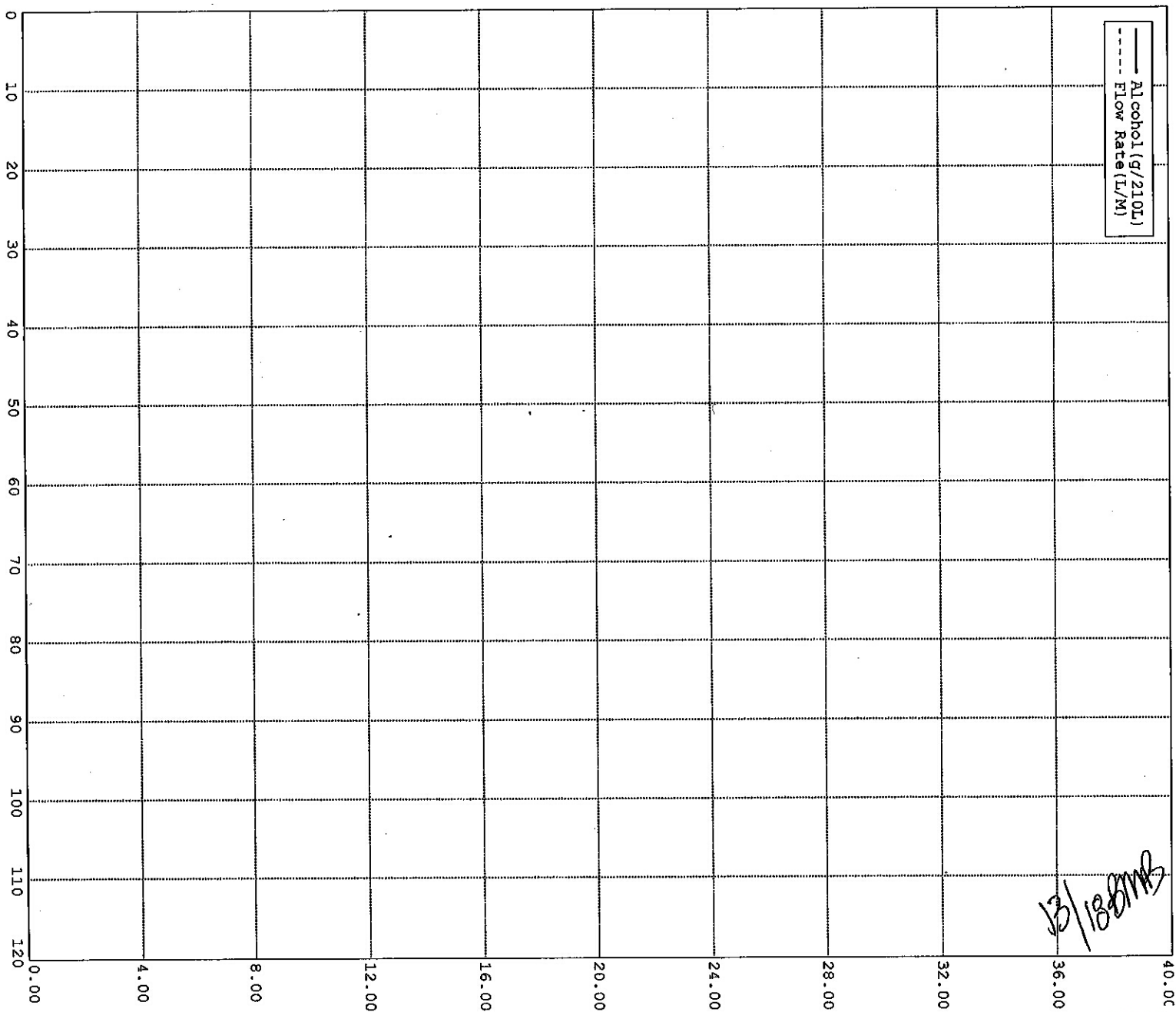
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

OPERATOR NAME:  
 INCOMPLETE XXXX  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.67: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

|                   |            |       |
|-------------------|------------|-------|
| DIAGNOSTIC CHECK  | PASSED     | 13:04 |
| BLANK TEST        | 0.000      | 13:04 |
| INTERNAL STANDARD | VERIFIED   | 13:04 |
| EXTERNAL STANDARD | 0.080      | 13:04 |
| BLANK TEST        | 0.000      | 13:05 |
| SUBJECT SAMPLE    | INCOMPLETE | 13:07 |



## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100404

Date: 05/19/2011  
Time: 13:12:41

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

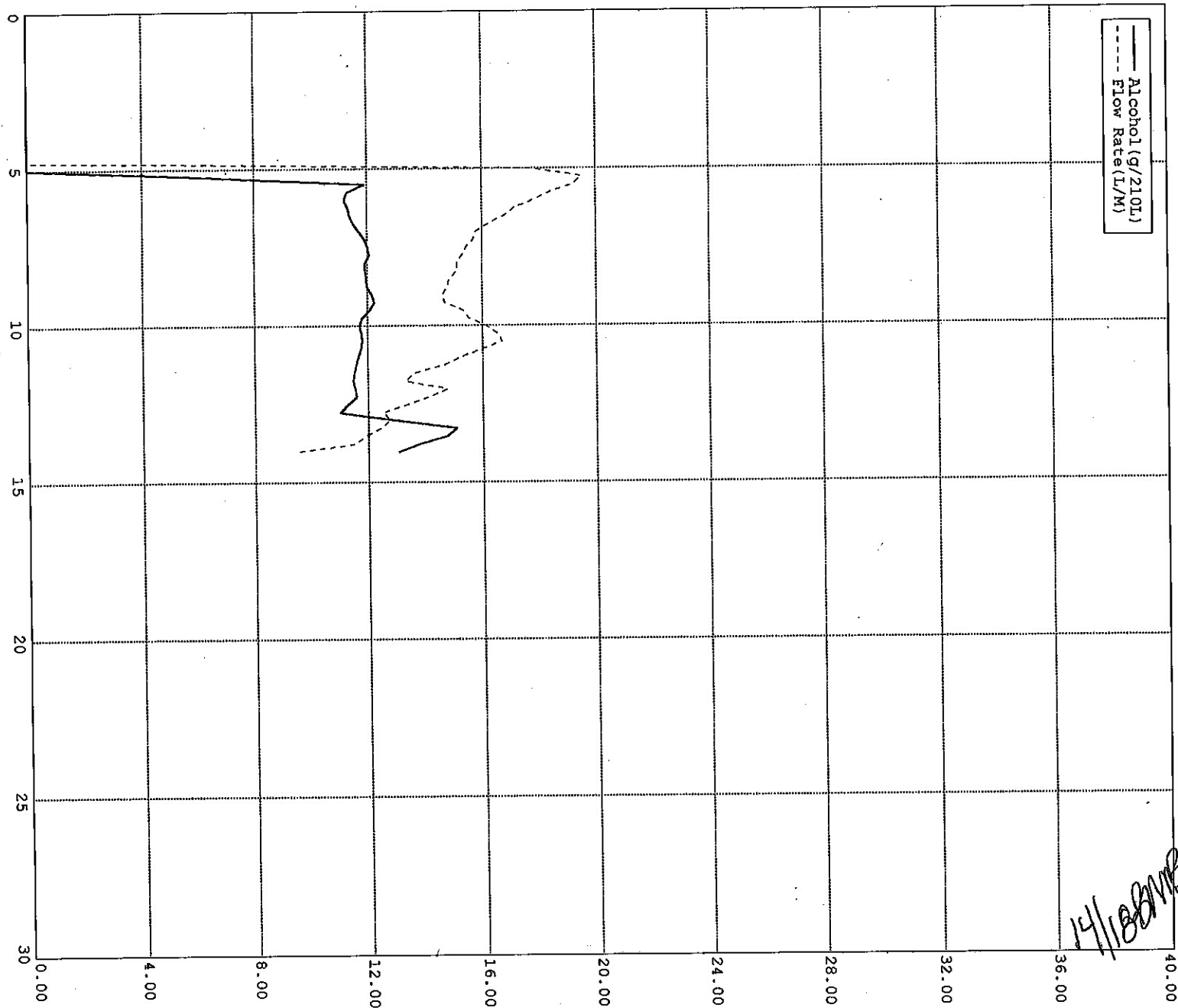
OPERATOR NAME:  
INVALID XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.67: 0.079  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK  | PASSED   | 13:13 |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 13:14 |
| INTERNAL STANDARD | VERIFIED | 13:14 |
| EXTERNAL STANDARD | 0.080    | 13:14 |
| BLANK TEST        | 0.000    | 13:15 |
| SUBJECT SAMPLE    | Invalid  | 13:15 |

BMB



## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100404

Date: 05/19/2011  
 Time: 13:21:46

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INTERFERE

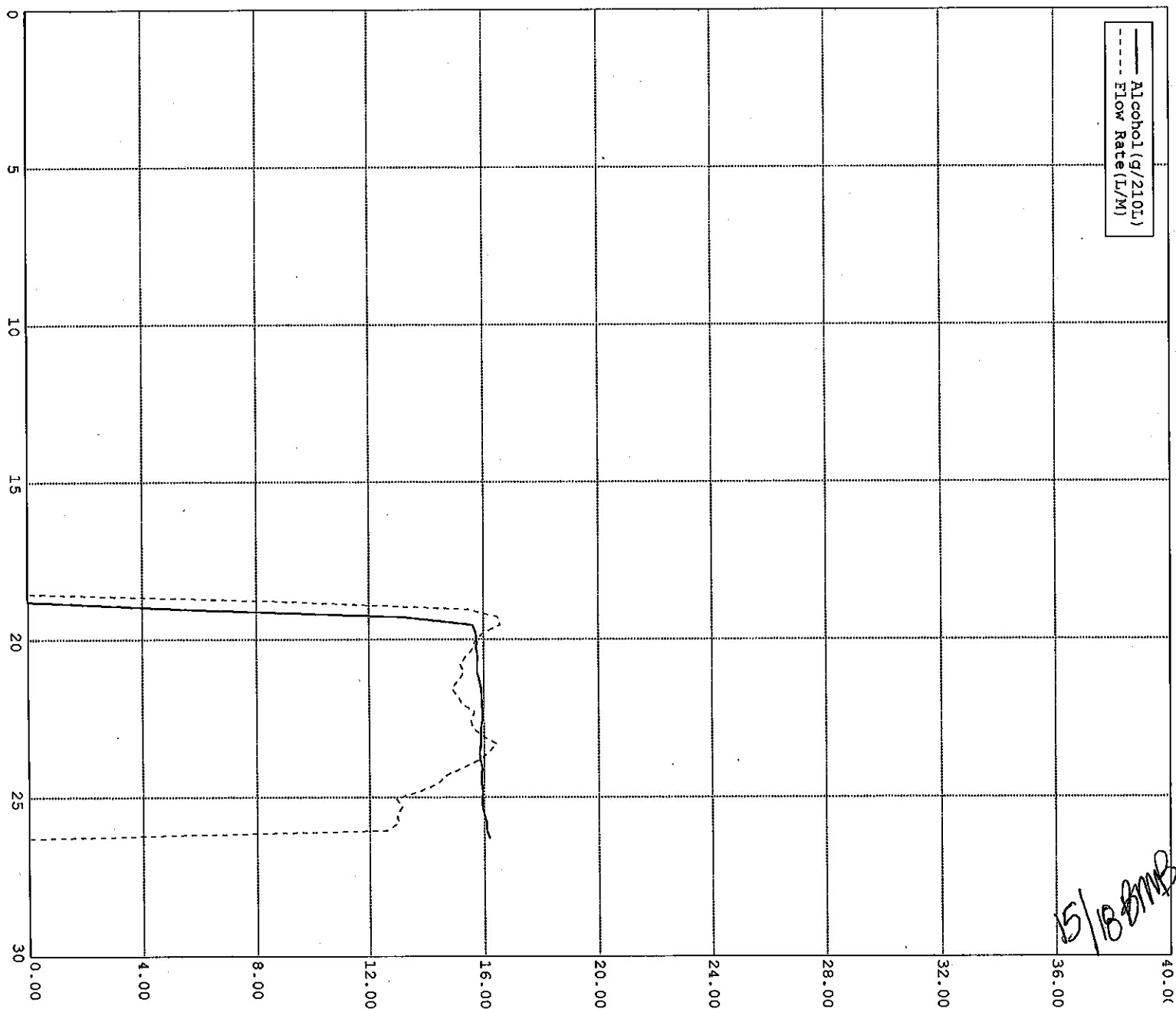
OPERATOR NAME:  
 ETHANOL AND ACETONE  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.67: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

|                   |              |       |
|-------------------|--------------|-------|
| DIAGNOSTIC CHECK  | PASSED       | 13:23 |
| BLANK TEST        | 0.000        | 13:23 |
| INTERNAL STANDARD | VERIFIED     | 13:23 |
| EXTERNAL STANDARD | 0.080        | 13:23 |
| BLANK TEST        | 0.000        | 13:24 |
| SUBJECT SAMPLE    | INTERFERENCE | 13:24 |

BMB



15/18 BMB

## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dnt: 100404

Date: 05/19/2011  
 Time: 13:27:43

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INTERFERE

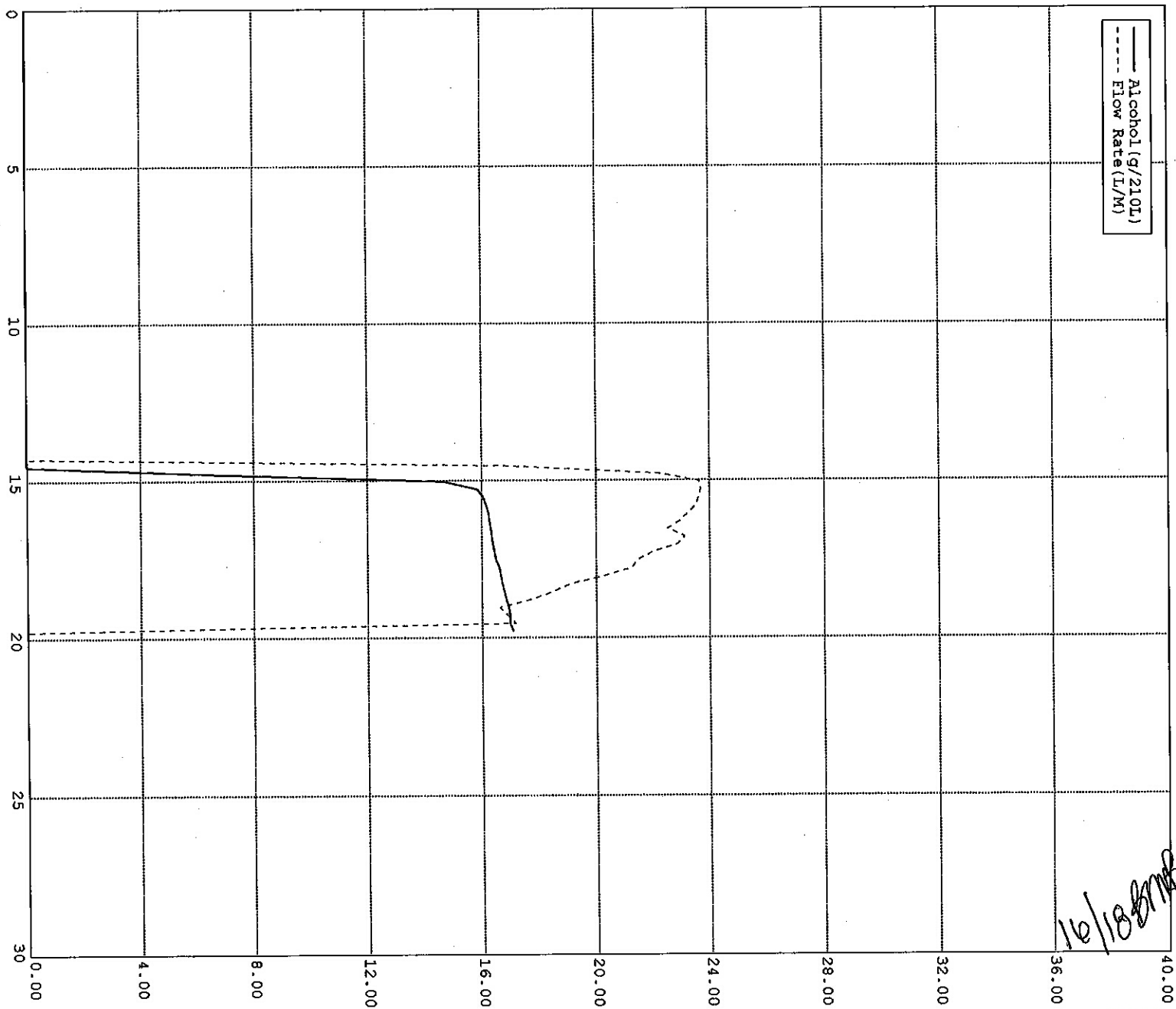
OPERATOR NAME:  
 ETHANOL AND ISOPROPANOL  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.66: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK  | PASSED       | 13:29 |
|-------------------|--------------|-------|
| BLANK TEST        | 0.000        | 13:29 |
| INTERNAL STANDARD | VERIFIED     | 13:29 |
| EXTERNAL STANDARD | 0.079        | 13:29 |
| BLANK TEST        | 0.000        | 13:30 |
| SUBJECT SAMPLE    | INTERFERENCE | 13:30 |

BMB



16/18 BMB

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmc: 100404

Date: 05/19/2011  
Time: 13:37:00

SUBJECT NAME:  
TEST TEST  
LICENSE #: RFI

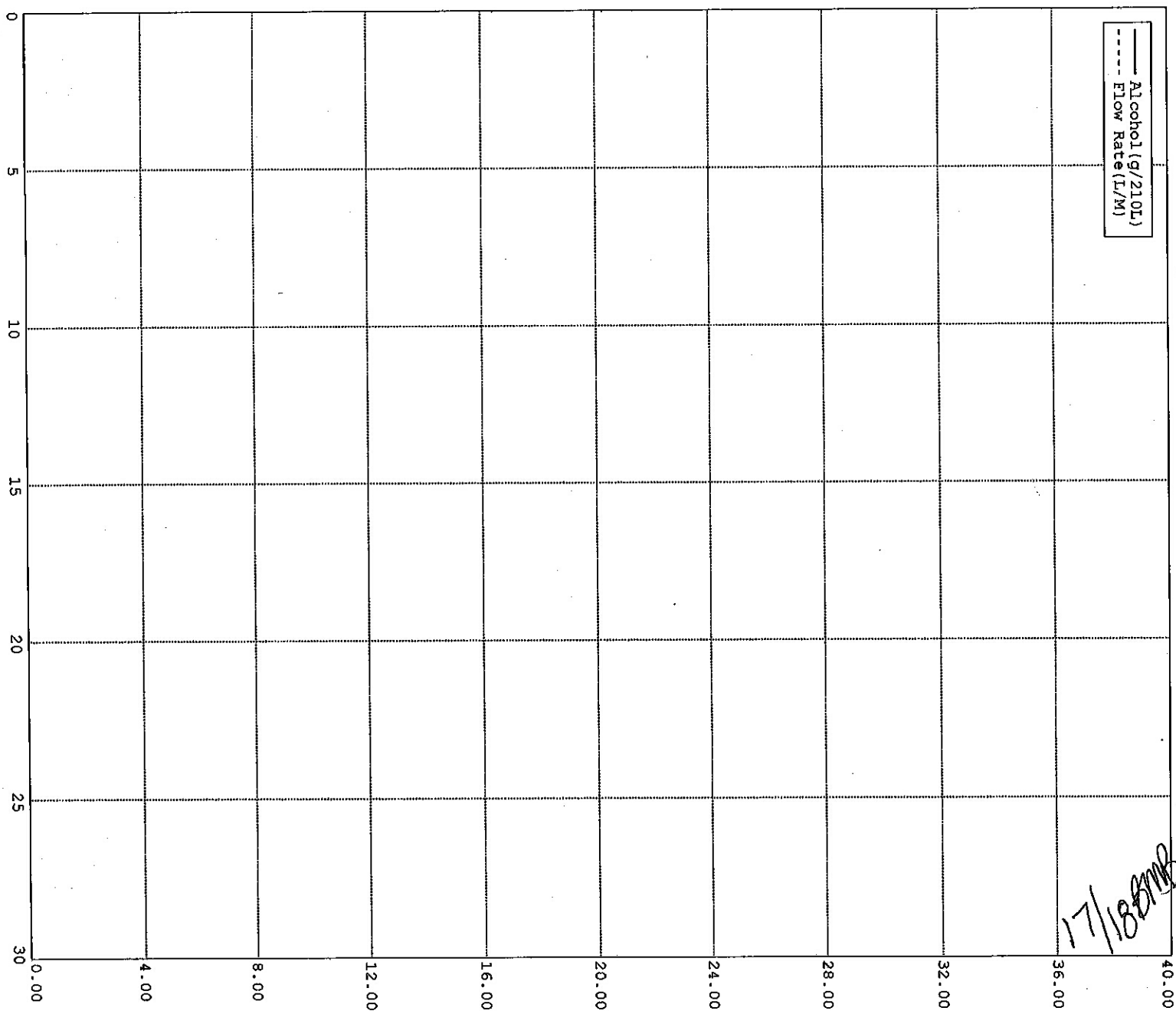
OPERATOR NAME:  
XXXX X XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.66: 0.079  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK  
BLANK TEST PASSED 13:38  
INTERNAL STANDARD VERIFIED 13:38  
EXTERNAL STANDARD 0.079 13:38  
BLANK TEST 0.000 13:39

RFI Detected



## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dnt: 100404

Date: 05/19/2011  
 Time: 14:00:41

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

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

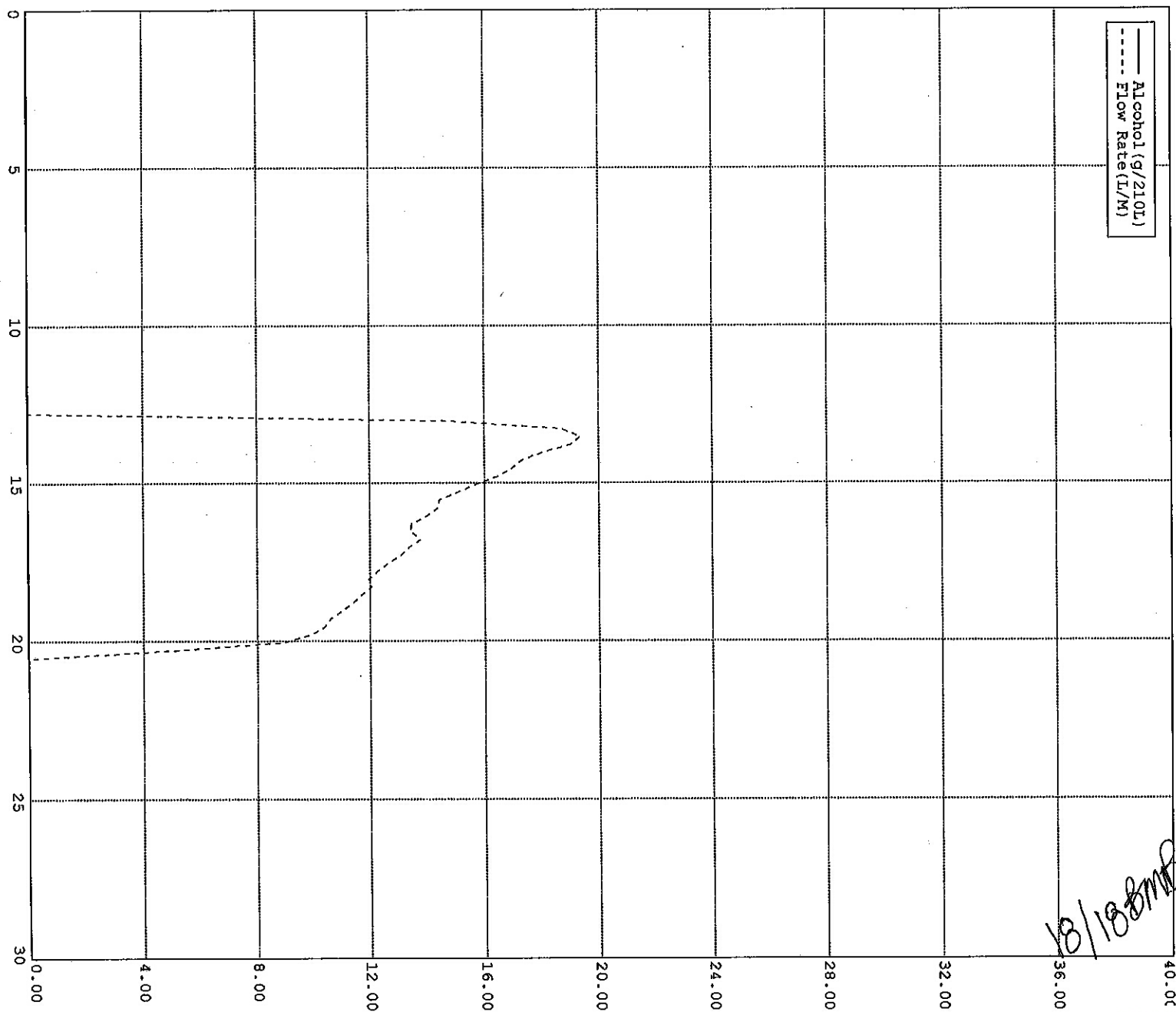
DEPT/AGENCY:  
 NON DRINKING SUBJECT TEST  
 CASE/REPORT: XXXX  
 TEST TYPE: TEST

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.66: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK  | PASSED   | 14:01 |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 14:01 |
| INTERNAL STANDARD | VERIFIED | 14:01 |
| EXTERNAL STANDARD | 0.079    | 14:02 |
| BLANK TEST        | 0.000    | 14:03 |
| SUBJECT SAMPLE    | 0.000    | 14:03 |
| BLANK TEST        | 0.000    | 14:04 |
| EXTERNAL STANDARD | 0.080    | 14:04 |
| BLANK TEST        | 0.000    | 14:05 |

BMB



Final page for report

\

\ANCSCLSAN01\JTRAX\CASEDOCS\B-100404\B-100404 ECF-20140

7/9/2014