

|                                                                                   |                                                       |                          |                      |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------|----------------------|
|  | 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 # 100351

1. Diagnostic Test (attached)

Analyst Brandi Barnett

2. Voltage Checks

Date 6/23/11a. 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 1600 mL 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 02811200A3 Exp 02/01/2013vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 03/01/2013

6. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Repro Lot 09805 Level 0.080 Exp 11/4/20111. Simulator Calibration Date 10/18/2010 SN DR6267ii. Isopropanol - Mnf Repro Lot 09805 Level 0.080 Exp 11/4/20111. Simulator Calibration Date 08/04/2010 SN SD1202d. 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: 100351  
-----

Date: 06/23/2011  
Time: 09:27:00

## VERSIONS

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

## TEMPERATURES

|                         |        |
|-------------------------|--------|
| Sample Chamber = 48.7°C | PASSED |
| Breath Tube = 45.4°C    | PASSED |

## PUMP INFO

|                       |        |
|-----------------------|--------|
| Flow Rate = 5.097 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 |
|-------------------|--------|

2/18/08  
BMB

Technician Screen

-----  
DATAMASTER dmt: 100351  
-----

Date: 06/23/2011  
Time: 9:33 AM

Temperatures (°C)  
Sample Cell: 48.9°C  
Breath Tube: 45.3°C

Current Barometer 29.9 in  
Volume (Ltr) 1.49

Settings  
Lamp: 2.36 V  
Bias: 80 V  
Cooler: 1.97 V  
Chopper: 544 Hz

Voltages (V)  
Flow: 1.05 V  
Detector: 0.171 V

3/18/11 MB

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100351  
-----

Date: 03/22/2011  
Time: 12:15:56

SUPERVISOR NAME:  
CHARLES FOSTER  
CERTIFICATE #: 7734

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

Ca = 0.1000  
CAL = 0.957594    0.800 <= CAL < 1.200  
b1 = 0.0002    0.0000 <= b1 < 0.0040  
b2 = 0.0050    0.0010 <= b2 < 0.0100  
b3 = 0.0000    0.0000 <= b3 < 0.0040  
Xq = 0.0981    0.0500 <= Xq < 0.2000  
a21 = 1.158813    1.050 <= a21 < 1.300  
a31 = 0.473654    0.300 <= a31 < 0.800

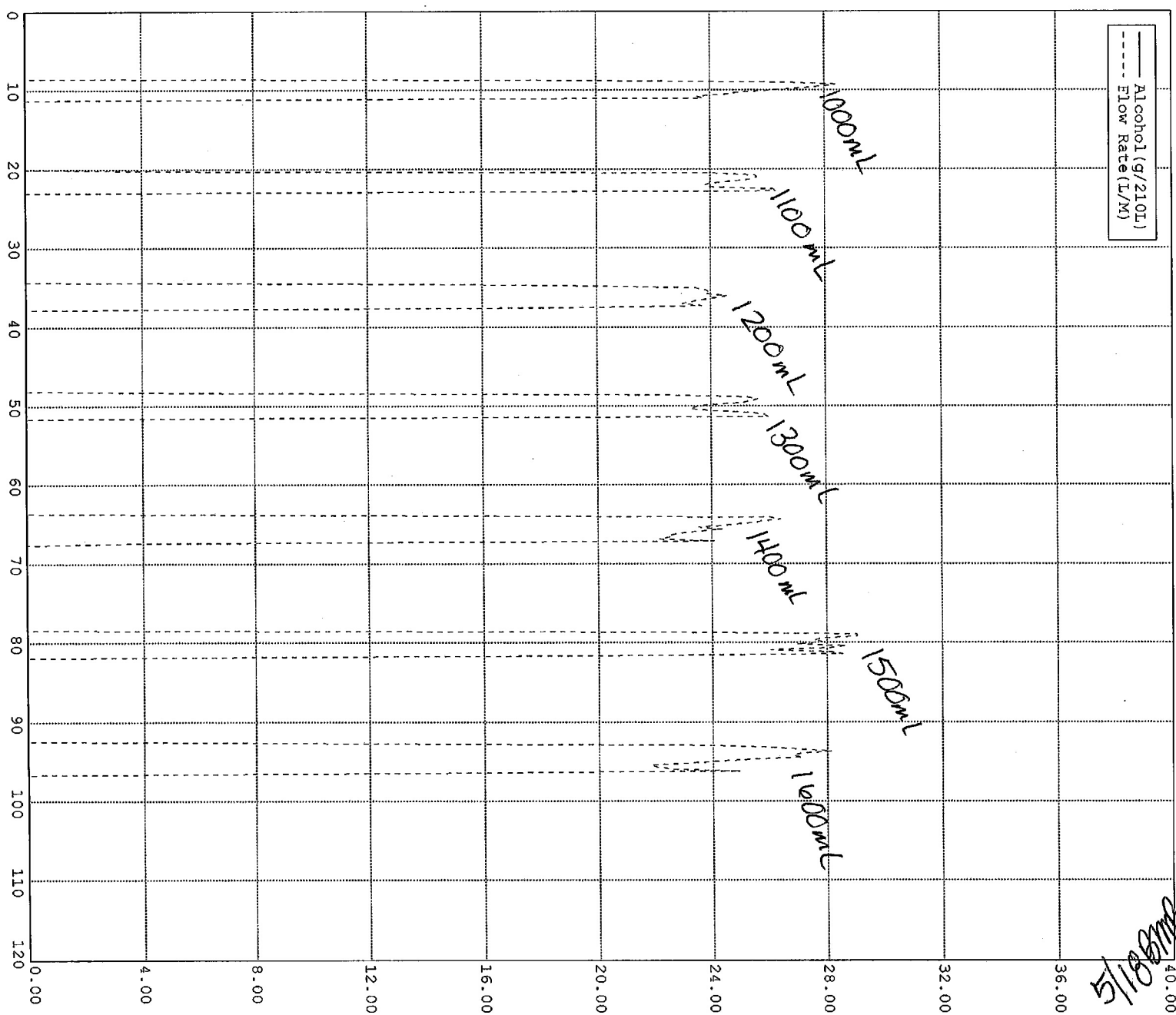


## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100351Date: 06/23/2011  
Time: 09:36:40SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXXOPERATOR NAME:  
MINIMUM VOLUME  
OPERATOR'S #: XXXXDEPT/AGENCY:  
XXXX  
CASE/REPORT: XXXX  
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.90: 0.079  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK  | PASSED   | 09:37 |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:38 |
| INTERNAL STANDARD | VERIFIED | 09:38 |
| EXTERNAL STANDARD | 0.080    | 09:38 |
| BLANK TEST        | 0.000    | 09:39 |
| SUBJECT SAMPLE    | 0.000    | 09:41 |
| BLANK TEST        | 0.000    | 09:41 |
| EXTERNAL STANDARD | 0.080    | 09:42 |
| BLANK TEST        | 0.000    | 09:43 |

FMR



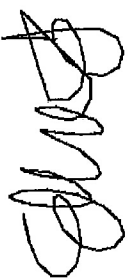
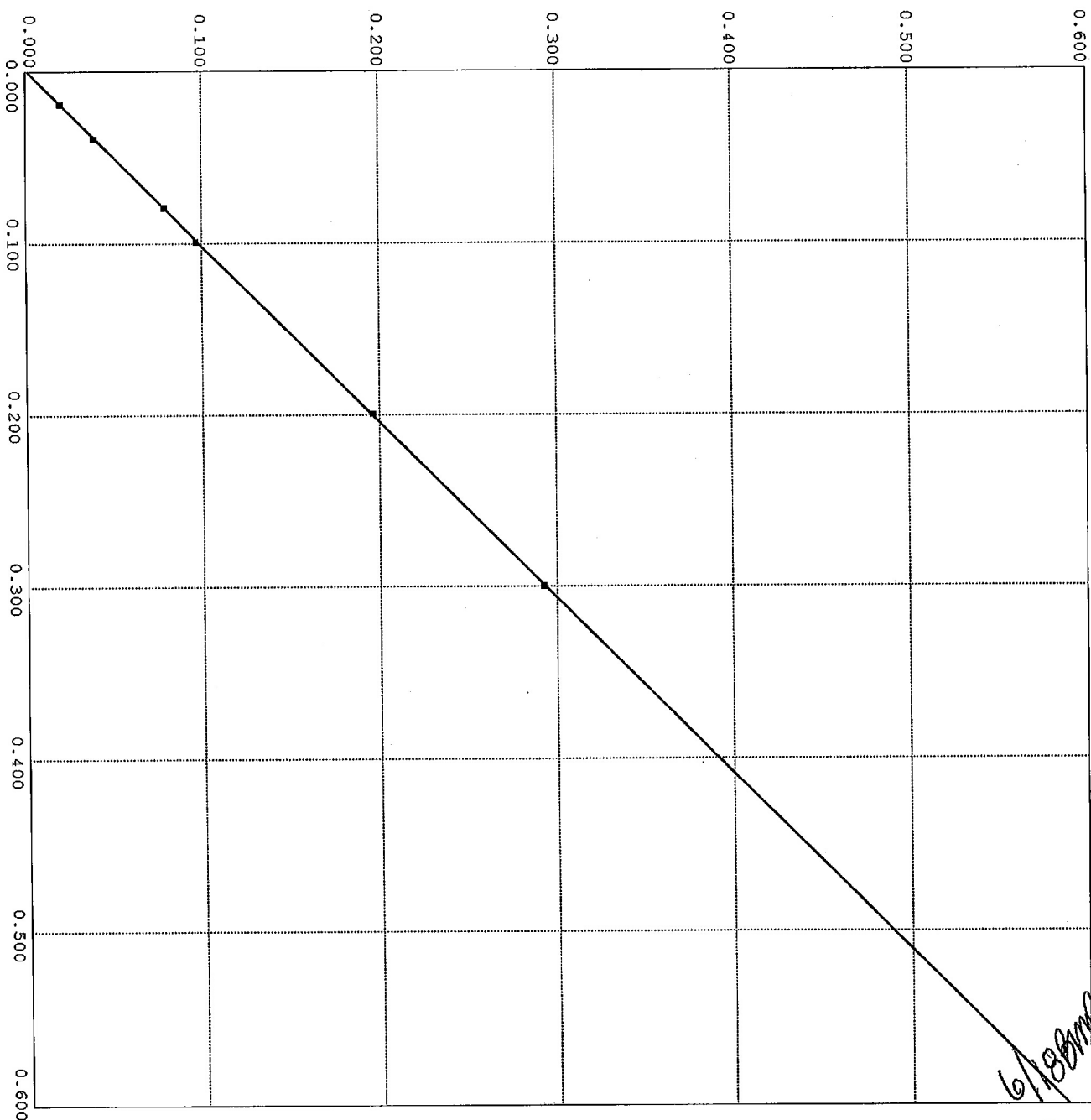
## LINEARITY CHECK

Alaska Department of Public Safety  
 DATAMASTER dmt: 100351

Date: 06/23/2011  
 Time: 09:45:11

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

| TARGET         | AVERAGE    | STD. DEV. |
|----------------|------------|-----------|
| 0.019          | 0.0202     | 0.0004    |
| 0.039          | 0.0390     | 0.0000    |
| 0.079          | 0.0788     | 0.0004    |
| 0.099          | 0.0974     | 0.0005    |
| 0.199          | 0.1970     | 0.0000    |
| 0.299          | 0.2932     | 0.0004    |
| SLOPE          | = 0.978016 |           |
| R <sup>2</sup> | = 0.999979 |           |

## LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100351

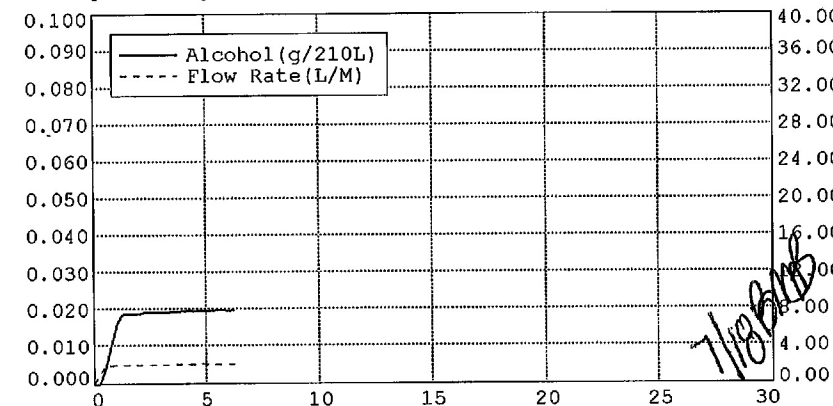
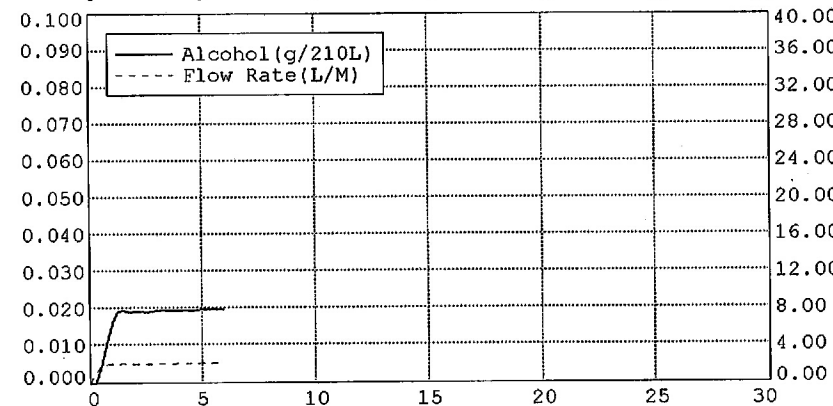
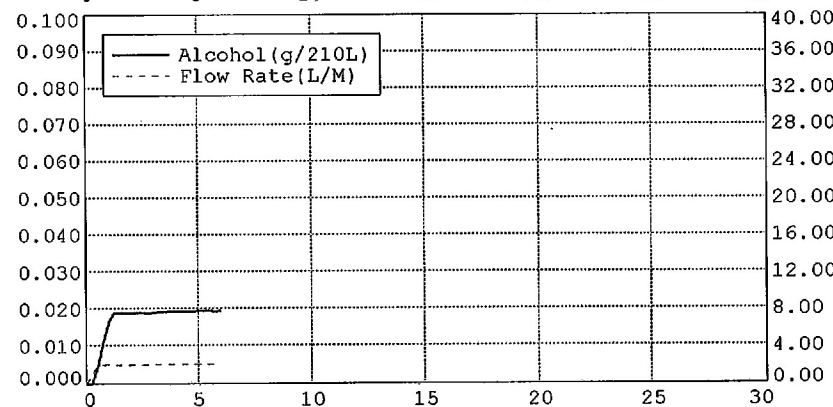
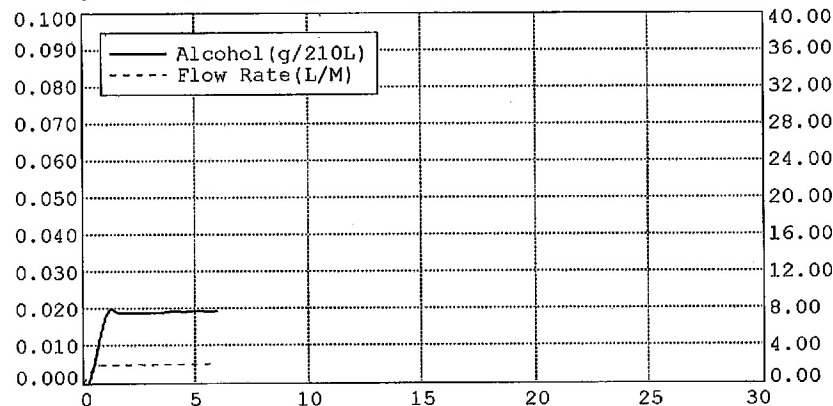
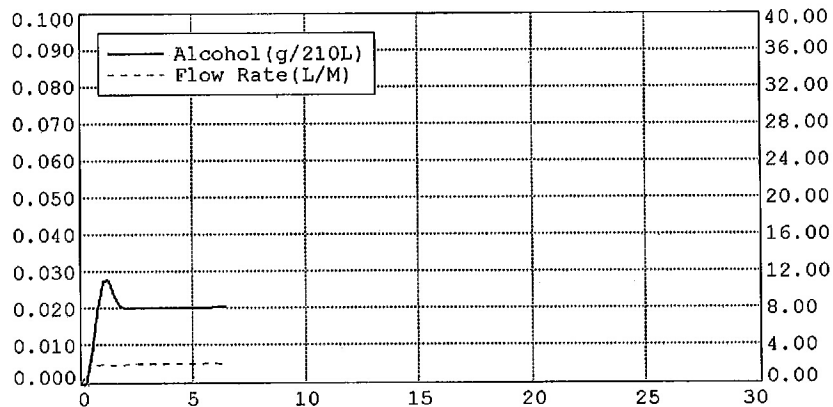
Date: 06/23/2011  
Time: 09:45:13

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.90: 0.019  
LOT #: 02811020A1  
EXPIRATION: 02/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:46 |
| INTERNAL STANDARD | VERIFIED | 09:46 |
| EXTERNAL STANDARD | 0.021    | 09:46 |
| BLANK TEST        | 0.000    | 09:47 |
| EXTERNAL STANDARD | 0.020    | 09:47 |
| BLANK TEST        | 0.000    | 09:48 |
| EXTERNAL STANDARD | 0.020    | 09:48 |
| BLANK TEST        | 0.000    | 09:49 |
| EXTERNAL STANDARD | 0.020    | 09:49 |
| BLANK TEST        | 0.000    | 09:50 |
| EXTERNAL STANDARD | 0.020    | 09:51 |
| BLANK TEST        | 0.000    | 09:51 |

Average = 0.0202  
Std Dev = 0.0004



## LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100351

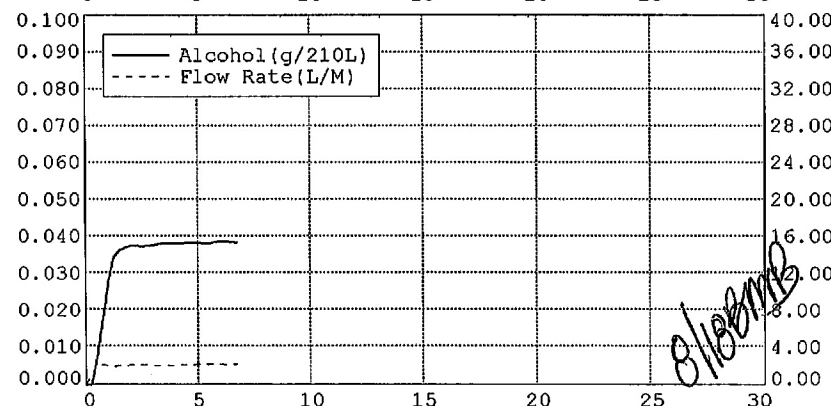
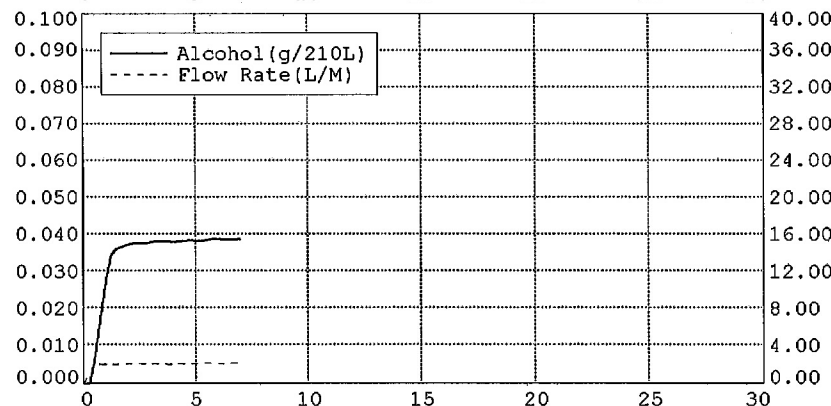
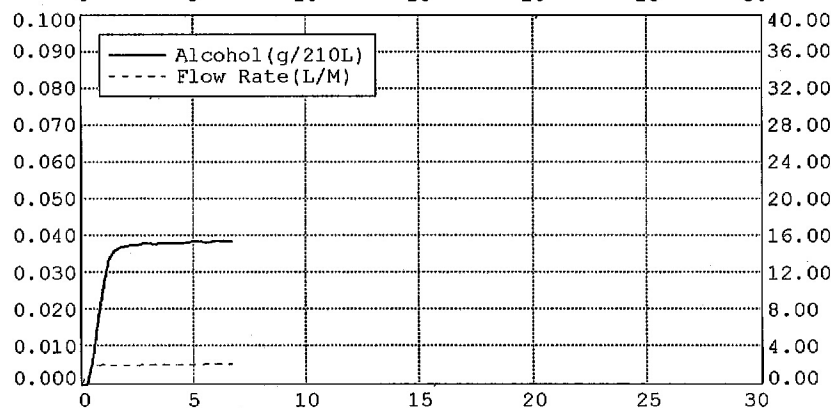
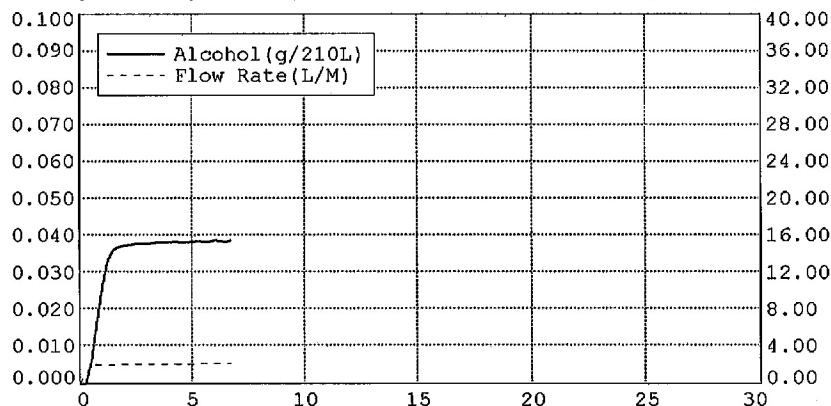
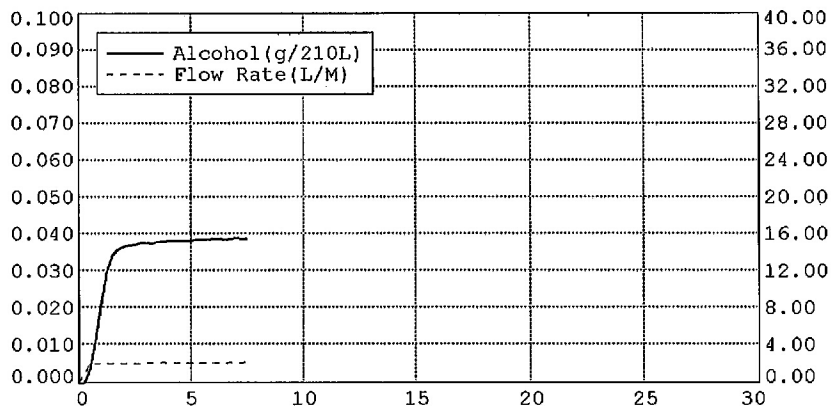
Date: 06/23/2011  
Time: 09:52:54

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
TARGET AT 29.90: 0.039  
LOT #: 02811040A2  
EXPIRATION: 02/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:54 |
| INTERNAL STANDARD | VERIFIED | 09:54 |
| EXTERNAL STANDARD | 0.039    | 09:54 |
| BLANK TEST        | 0.000    | 09:55 |
| EXTERNAL STANDARD | 0.039    | 09:55 |
| BLANK TEST        | 0.000    | 09:56 |
| EXTERNAL STANDARD | 0.039    | 09:56 |
| BLANK TEST        | 0.000    | 09:57 |
| EXTERNAL STANDARD | 0.039    | 09:57 |
| BLANK TEST        | 0.000    | 09:58 |
| EXTERNAL STANDARD | 0.039    | 09:58 |
| BLANK TEST        | 0.000    | 09:59 |

Average = 0.0390  
Std Dev = 0.0000



## LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100351

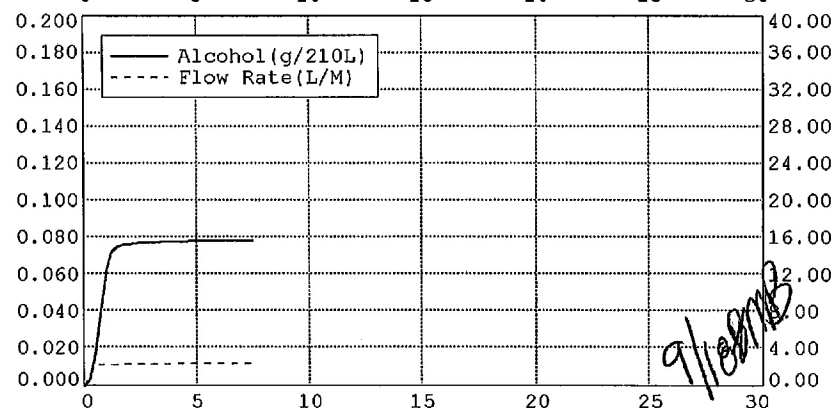
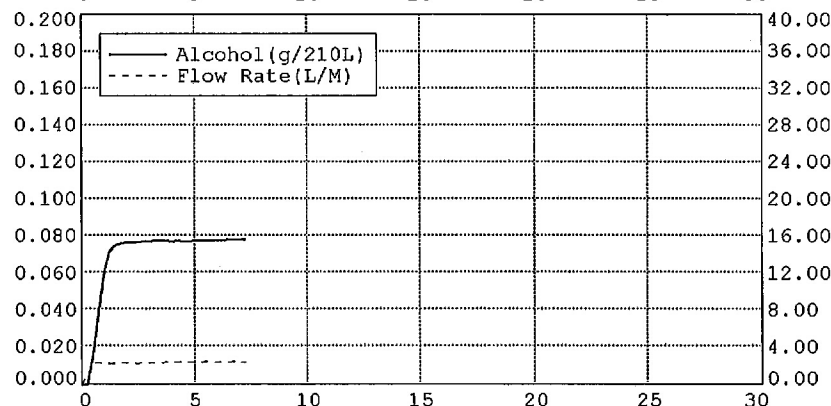
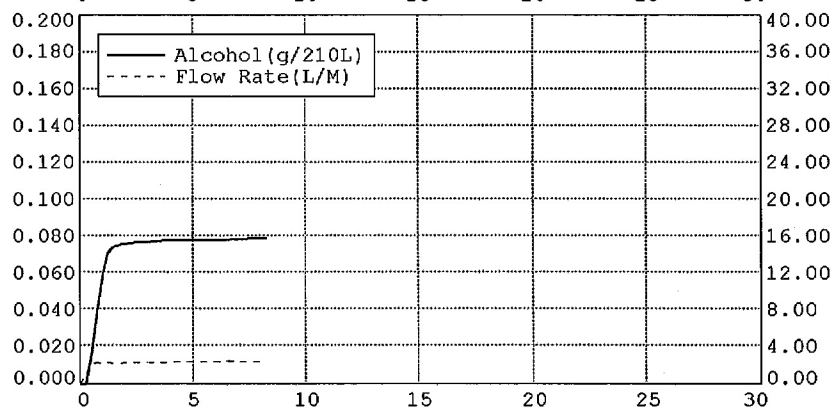
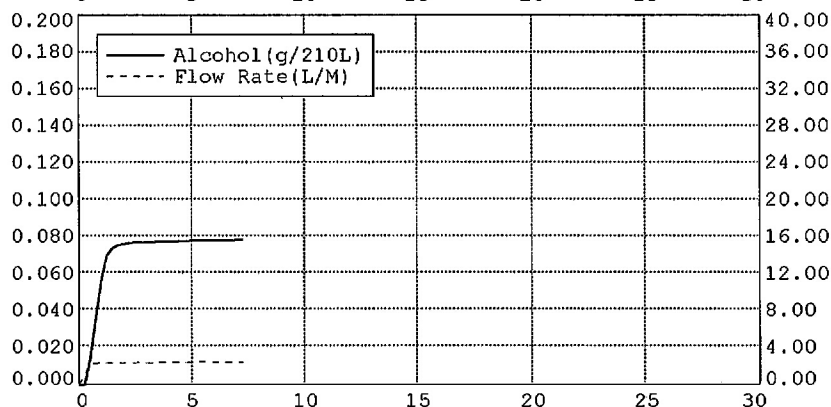
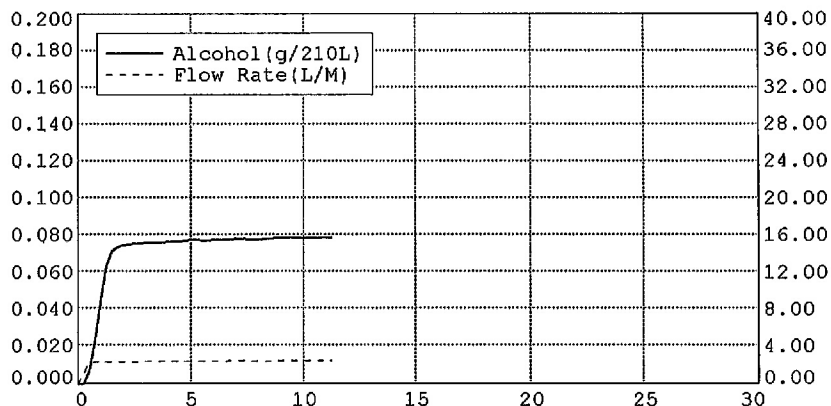
Date: 06/23/2011  
Time: 10:01:14

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.90: 0.079  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:02 |
| INTERNAL STANDARD | VERIFIED | 10:02 |
| EXTERNAL STANDARD | 0.079    | 10:02 |
| BLANK TEST        | 0.000    | 10:03 |
| EXTERNAL STANDARD | 0.078    | 10:03 |
| BLANK TEST        | 0.000    | 10:04 |
| EXTERNAL STANDARD | 0.079    | 10:04 |
| BLANK TEST        | 0.000    | 10:05 |
| EXTERNAL STANDARD | 0.079    | 10:06 |
| BLANK TEST        | 0.000    | 10:07 |
| EXTERNAL STANDARD | 0.079    | 10:07 |
| BLANK TEST        | 0.000    | 10:08 |

Average = 0.0788  
Std Dev = 0.0004





## LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
DATAMASTER dmt: 100351

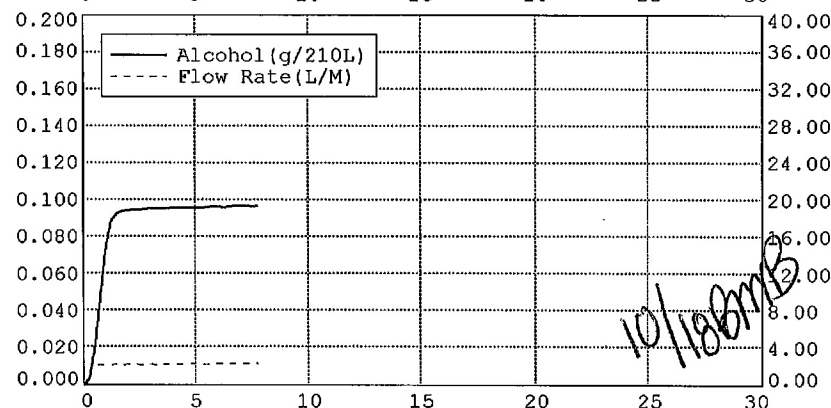
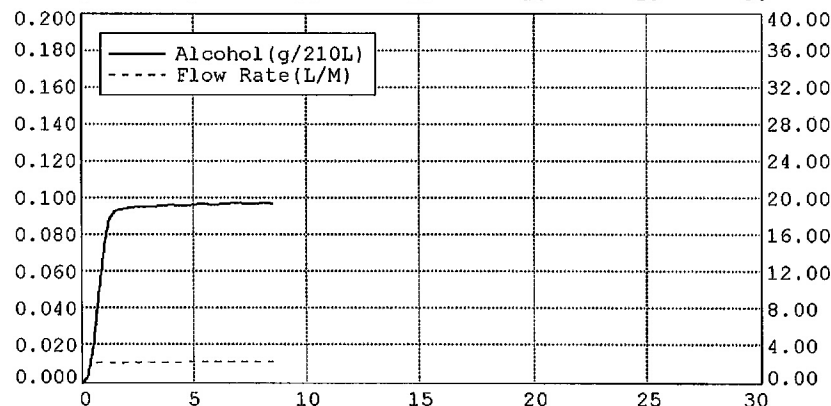
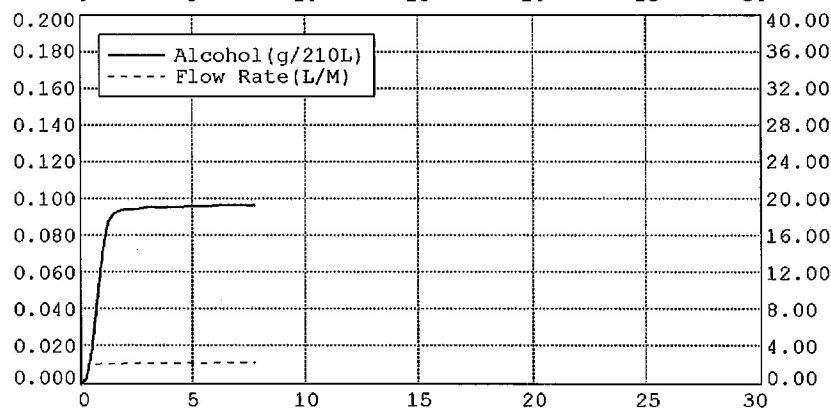
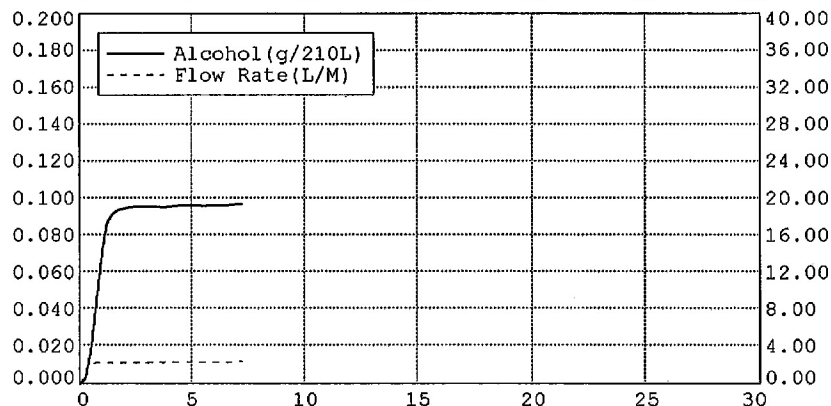
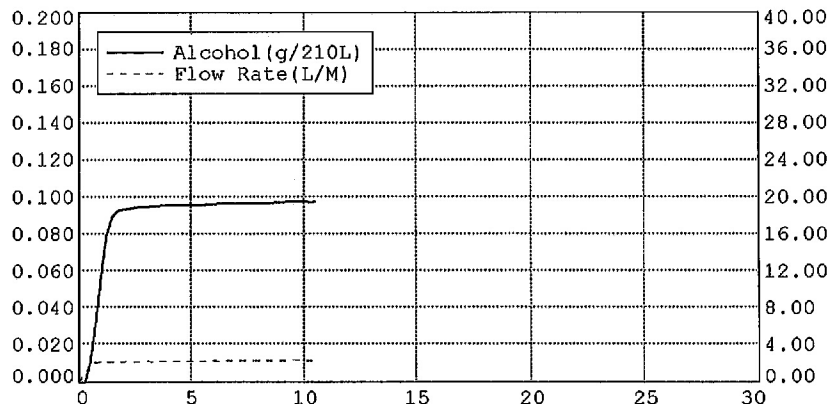
Date: 06/23/2011  
Time: 10:13:16

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
TARGET AT 29.90: 0.099  
LOT #: 05611100A2  
EXPIRATION: 03/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:14 |
| INTERNAL STANDARD | VERIFIED | 10:14 |
| EXTERNAL STANDARD | 0.098    | 10:14 |
| BLANK TEST        | 0.000    | 10:15 |
| EXTERNAL STANDARD | 0.097    | 10:15 |
| BLANK TEST        | 0.000    | 10:16 |
| EXTERNAL STANDARD | 0.097    | 10:17 |
| BLANK TEST        | 0.000    | 10:17 |
| EXTERNAL STANDARD | 0.098    | 10:18 |
| BLANK TEST        | 0.000    | 10:19 |
| EXTERNAL STANDARD | 0.097    | 10:19 |
| BLANK TEST        | 0.000    | 10:20 |

Average = 0.0974  
Std Dev = 0.0005



## LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
DATAMASTER dmt: 100351

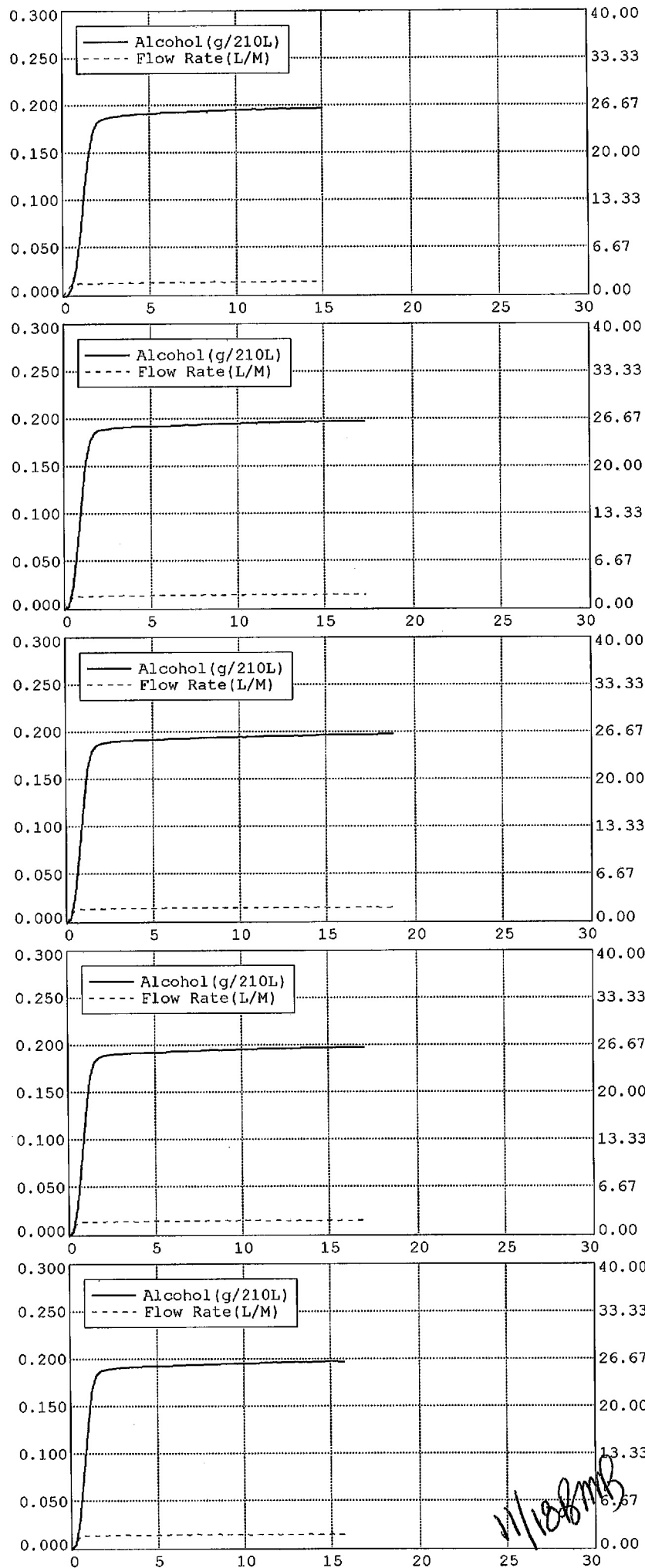
Date: 06/23/2011  
Time: 10:28:38

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200  
TARGET AT 29.89: 0.199  
LOT #: 02811200A3  
EXPIRATION: 02/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:29 |
| INTERNAL STANDARD | VERIFIED | 10:29 |
| EXTERNAL STANDARD | 0.197    | 10:30 |
| BLANK TEST        | 0.000    | 10:31 |
| EXTERNAL STANDARD | 0.197    | 10:31 |
| BLANK TEST        | 0.000    | 10:32 |
| EXTERNAL STANDARD | 0.197    | 10:32 |
| BLANK TEST        | 0.000    | 10:33 |
| EXTERNAL STANDARD | 0.197    | 10:34 |
| BLANK TEST        | 0.000    | 10:35 |
| EXTERNAL STANDARD | 0.197    | 10:35 |
| BLANK TEST        | 0.000    | 10:36 |

Average = 0.1970  
Std Dev = 0.0000



## LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
DATAMASTER dmt: 100351

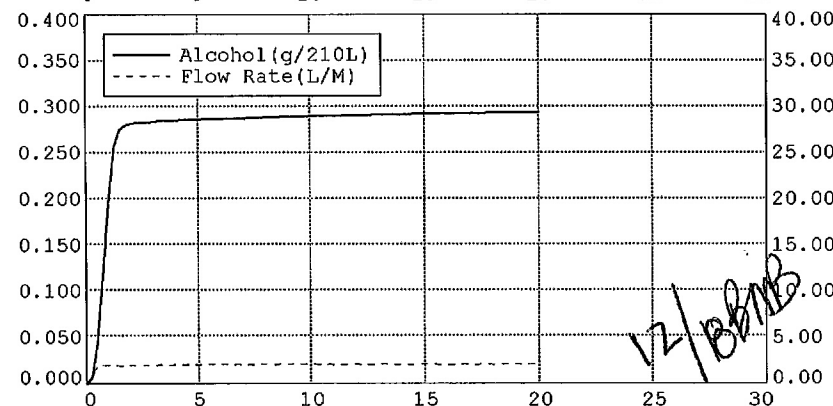
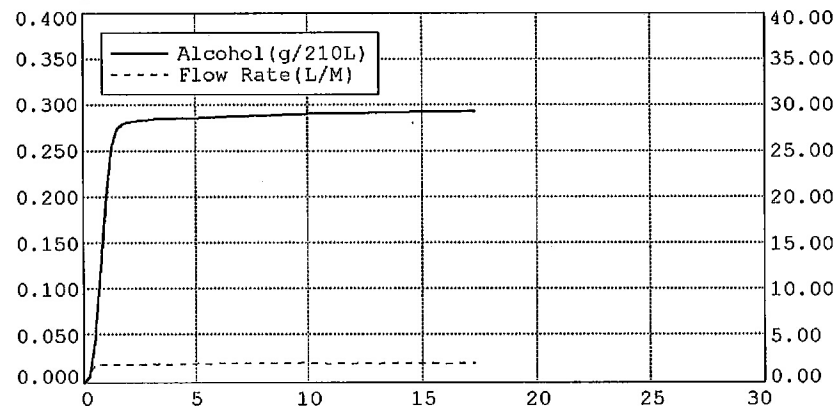
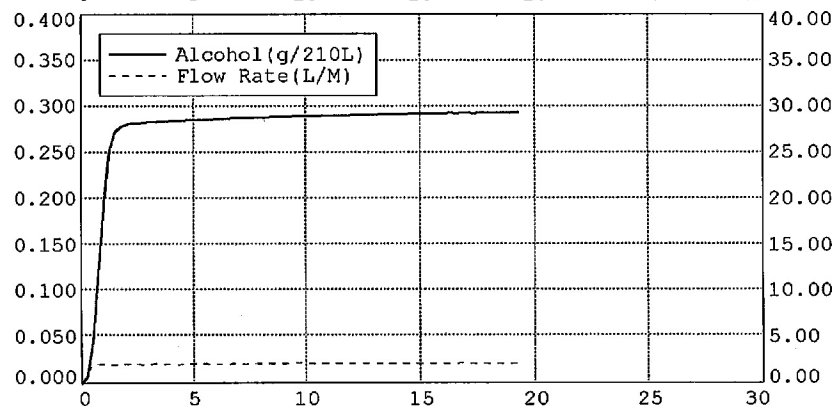
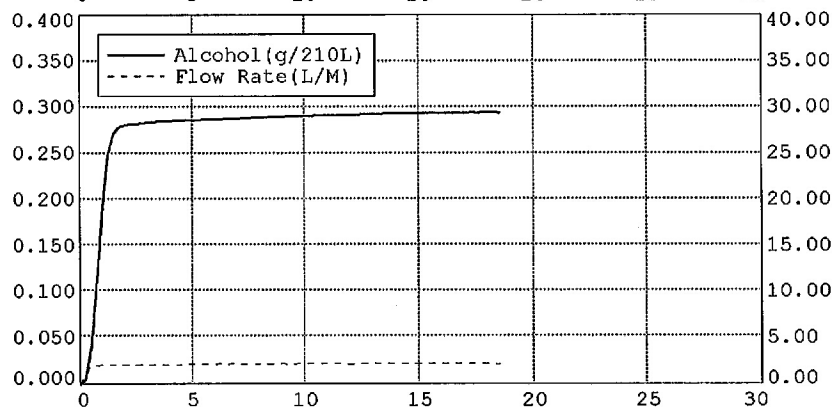
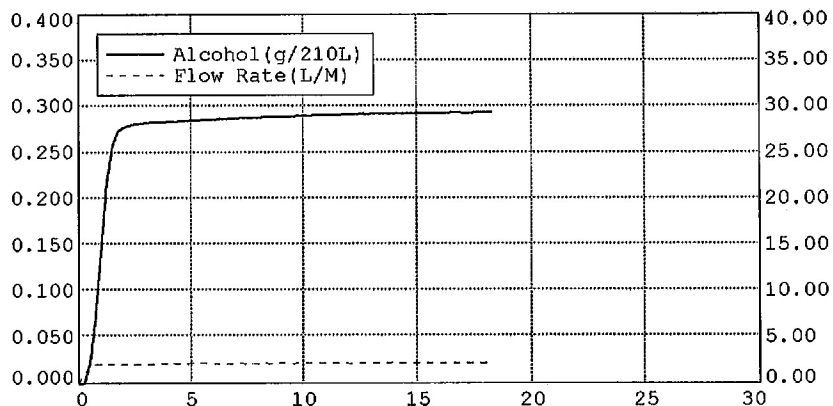
Date: 06/23/2011  
Time: 10:40:14

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 29.90: 0.299  
LOT #: 07411300A1  
EXPIRATION: 03/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:42 |
| INTERNAL STANDARD | VERIFIED | 10:42 |
| EXTERNAL STANDARD | 0.293    | 10:42 |
| BLANK TEST        | 0.000    | 10:43 |
| EXTERNAL STANDARD | 0.294    | 10:44 |
| BLANK TEST        | 0.000    | 10:45 |
| EXTERNAL STANDARD | 0.293    | 10:45 |
| BLANK TEST        | 0.000    | 10:46 |
| EXTERNAL STANDARD | 0.293    | 10:47 |
| BLANK TEST        | 0.000    | 10:48 |
| EXTERNAL STANDARD | 0.293    | 10:48 |
| BLANK TEST        | 0.000    | 10:49 |

Average = 0.2932  
Std Dev = 0.0004





# SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100351

Date: 06/23/2011  
Time: 13:01:40

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

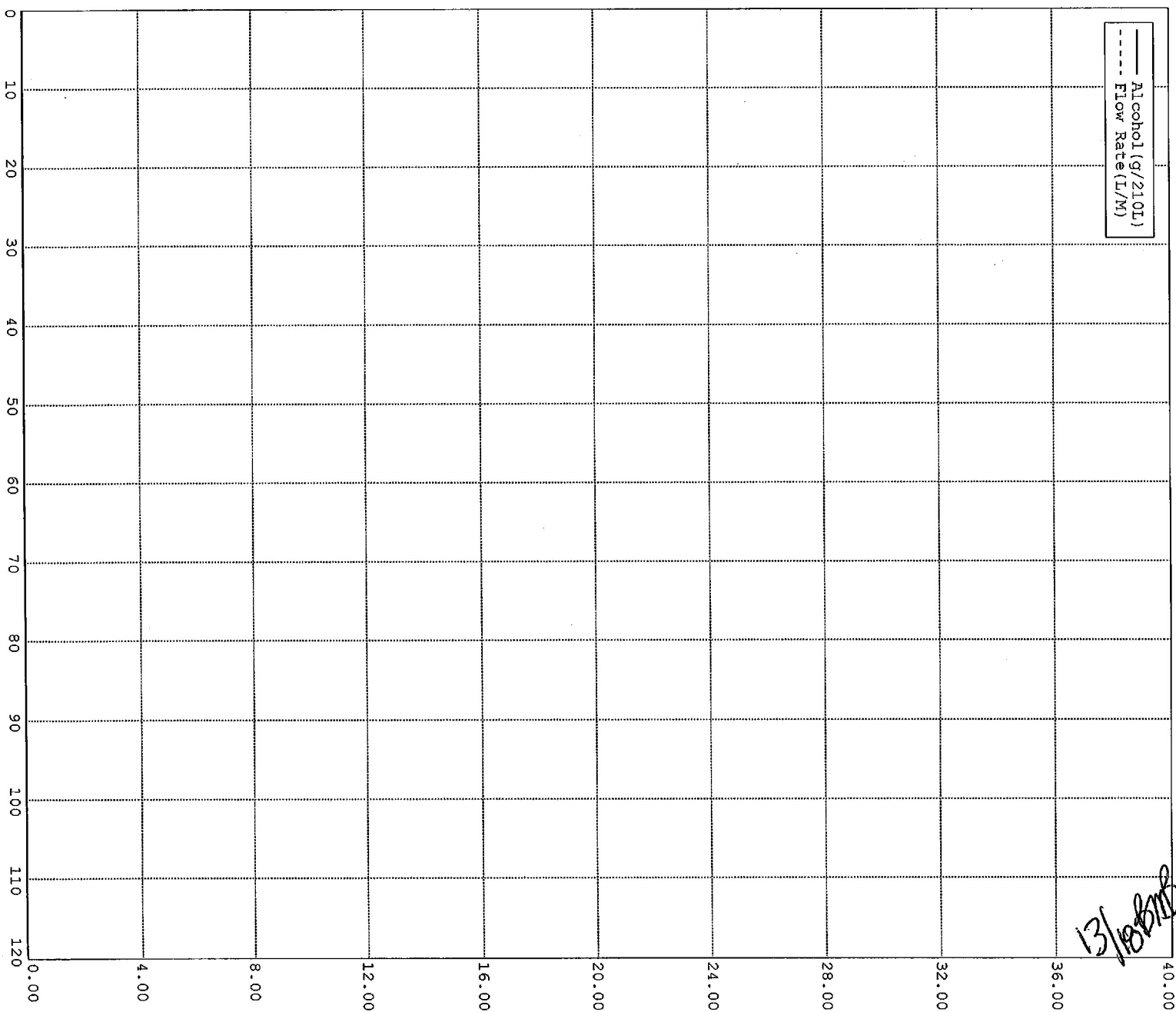
OPERATOR NAME:  
INCOMPLETE XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.87: 0.079  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK  | PASSED     | 13:02 |
|-------------------|------------|-------|
| BLANK TEST        | 0.000      | 13:02 |
| INTERNAL STANDARD | VERIFIED   | 13:03 |
| EXTERNAL STANDARD | 0.079      | 13:03 |
| BLANK TEST        | 0.000      | 13:04 |
| SUBJECT SAMPLE    | INCOMPLETE | 13:06 |

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SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100351

Date: 06/23/2011  
Time: 13:08:20

SUBJECT NAME:  
TEST TEST  
LICENSE #: INVALID

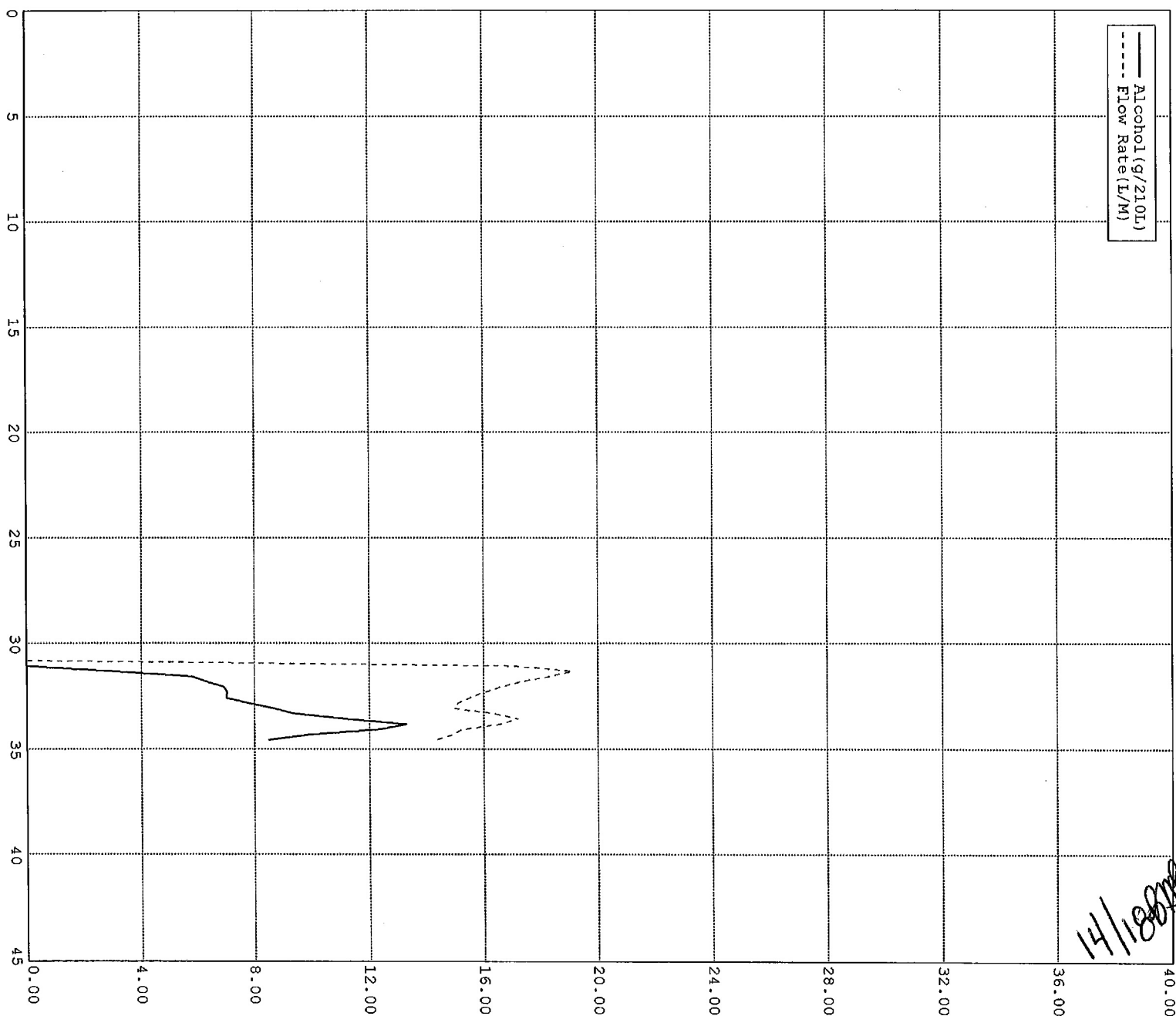
OPERATOR NAME:  
XXXX XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.88: 0.079  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK  |                |
|-------------------|----------------|
| BLANK TEST        | PASSED 13:09   |
| INTERNAL STANDARD | 0.000 13:09    |
| EXTERNAL STANDARD | VERIFIED 13:09 |
| BLANK TEST        | 0.079 13:09    |
| SUBJECT SAMPLE    | 0.000 13:10    |
|                   | Invalid 13:11  |

OMB



14/10/11

SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100351

Date: 06/23/2011  
Time: 13:36:37

SUBJECT NAME:  
TEST TEST  
LICENSE #: INTERFERE

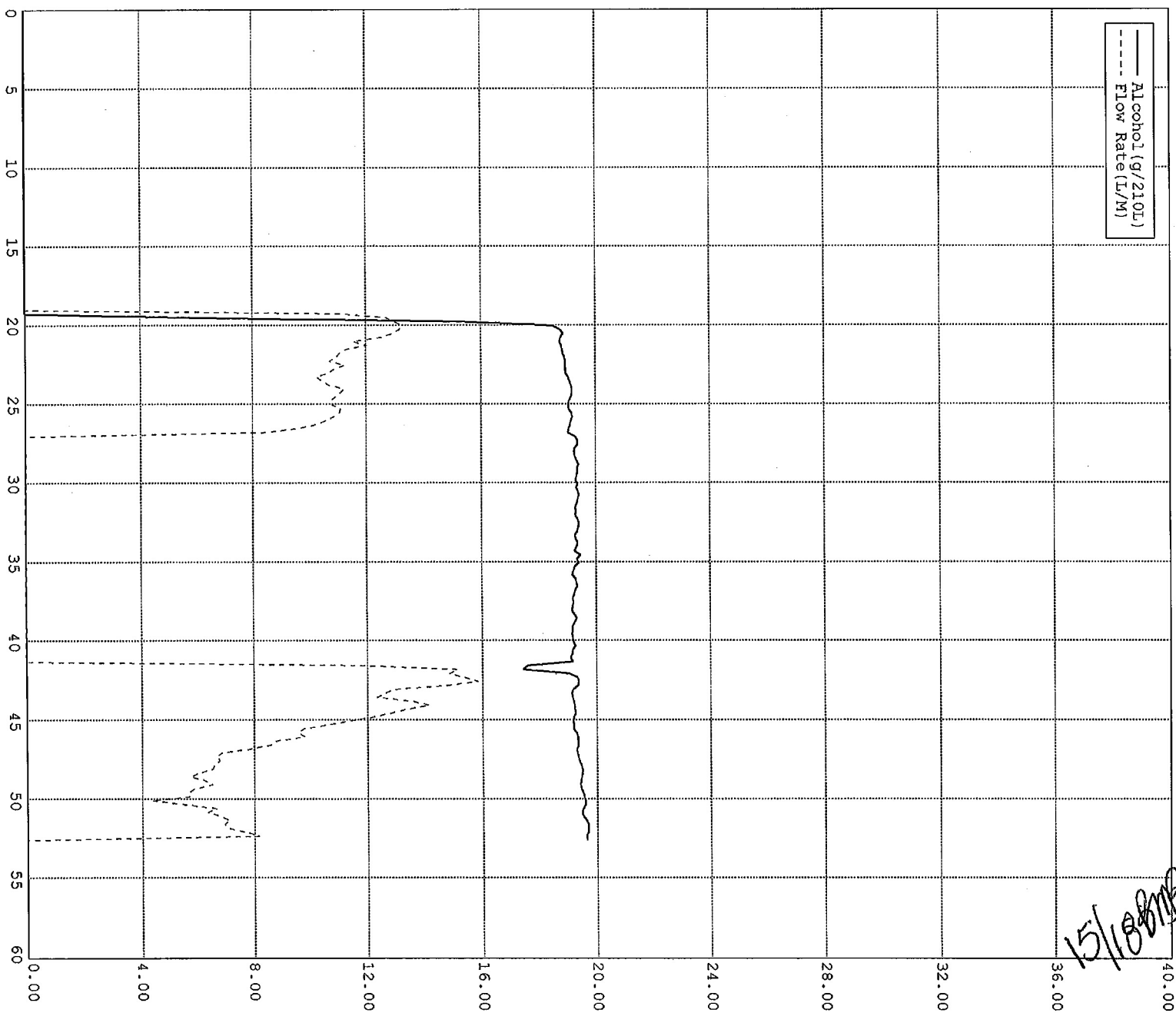
OPERATOR NAME:  
ETHANOL AND ACETONE  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.87: 0.079  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK  | PASSED       | 13:37 |
|-------------------|--------------|-------|
| BLANK TEST        | 0.000        | 13:37 |
| INTERNAL STANDARD | VERIFIED     | 13:37 |
| EXTERNAL STANDARD | 0.079        | 13:38 |
| BLANK TEST        | 0.000        | 13:39 |
| SUBJECT SAMPLE    | INTERFERENCE | 13:40 |

BRNF



15/108MB

# SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100351

Date: 06/23/2011  
 Time: 13:49:26

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INTERFERE

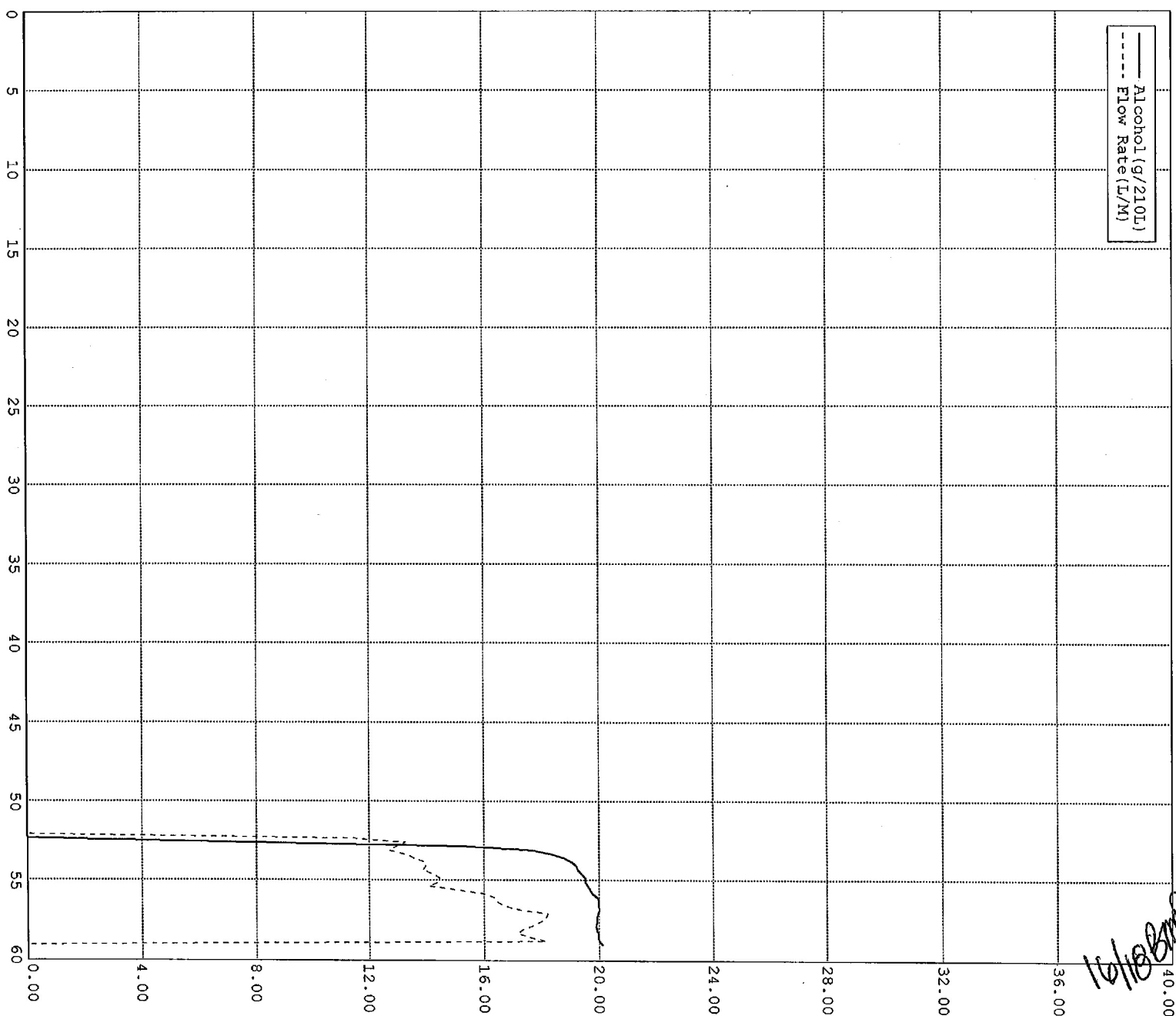
OPERATOR NAME:  
 ETHANOL AND ISOPROPANOL  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.86: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK  | PASSED       | 13:50 |
|-------------------|--------------|-------|
| BLANK TEST        | 0.000        | 13:50 |
| INTERNAL STANDARD | VERIFIED     | 13:50 |
| EXTERNAL STANDARD | 0.080        | 13:51 |
| BLANK TEST        | 0.000        | 13:52 |
| SUBJECT SAMPLE    | INTERFERENCE | 13:53 |

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*Handwritten signature/initials*

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100351

Date: 06/23/2011  
Time: 13:13:57

SUBJECT NAME:  
TEST TEST  
LICENSE #: INTERFERENCE

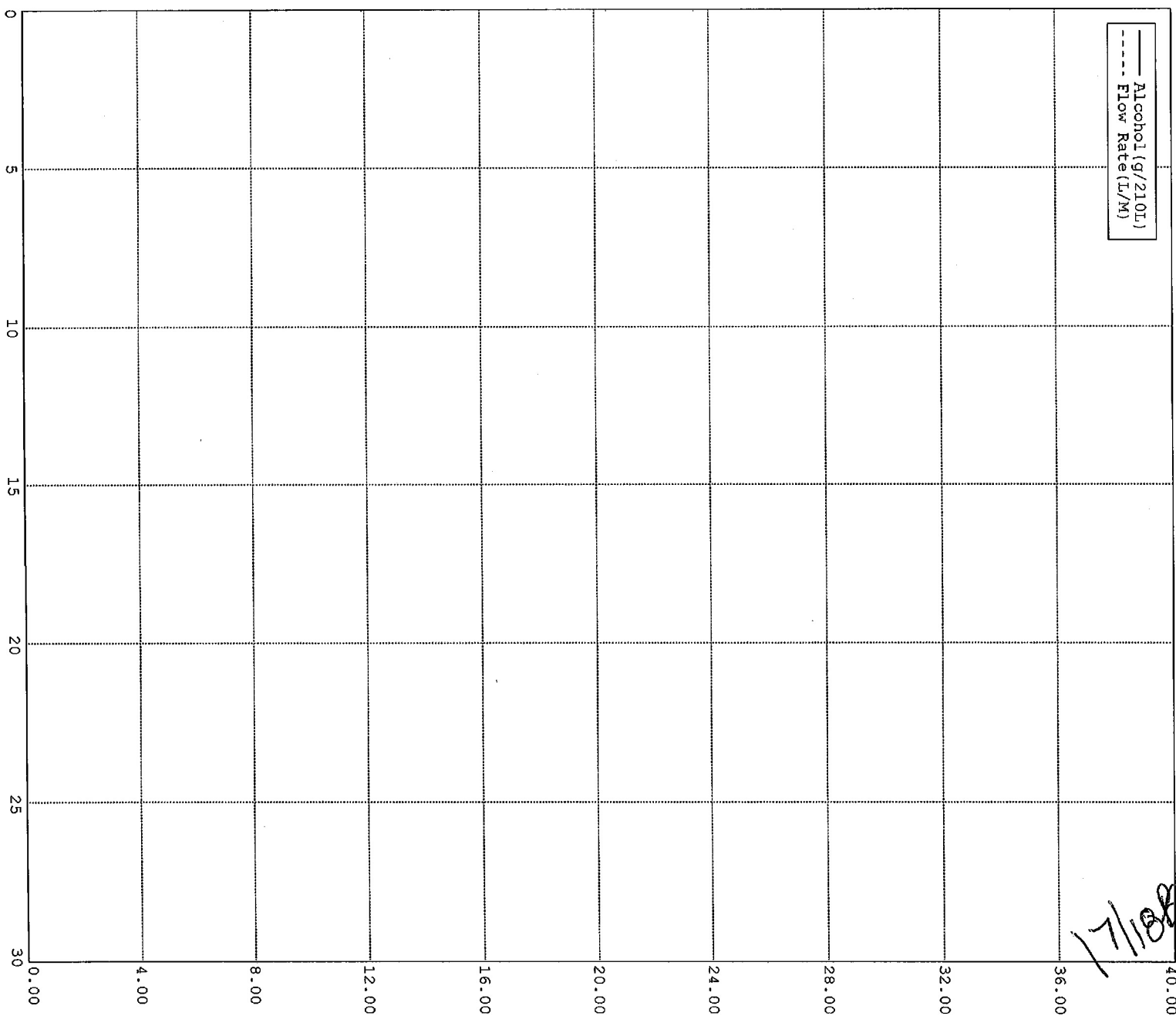
OPERATOR NAME:  
RADIO FREQUENCY  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.87: 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    | 13:15 |
| BLANK TEST        | 0.000    | 13:16 |

RFI Detected



## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100351

Date: 06/23/2011  
Time: 13:59:41

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 29.86: 0.079  
LOF #: 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    | 14:01 |
| BLANK TEST        | 0.000    | 14:02 |
| SUBJECT SAMPLE    | 0.000    | 14:03 |
| BLANK TEST        | 0.000    | 14:03 |
| EXTERNAL STANDARD | 0.080    | 14:04 |
| BLANK TEST        | 0.000    | 14:05 |

BM

