

|                                                                                   |                                                       |                          |                      |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------|----------------------|
|  | 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 # 100345Analyst C. O'BryantDate 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 ILMO Lot 02811020A1 Exp 2/1/13ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 2/1/13iii. 0.080g/210L Mnf ILMO Lot 02511080A3 Exp 2/1/13iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13v. 0.200g/210L Mnf ILMO Lot 07411300A2 Exp 3/1/13vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 3/1/13

6. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 9340 Level 0.080 Exp 12/2/111. Simulator Calibration Date 10/18/10 SN DR6267ii. Isopropanol - Mnf Guth Lot 9340 Level 0.080 Exp 12/2/111. Simulator Calibration Date 8/4/10 SN SD002d. RFI ☒7. Calibrate Stylus ☒8. Verify card reader is functional ☒ (Replaced card reader after initial card reader was non-functioning). COB 7/5/119. Upload ☒10. Reset Options ☒

11. Non-Drinking Subject Test (attached)

## DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100345  
-----

Date: 03/24/2011  
Time: 09:21:43

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

## TEMPERATURES

|                         |        |
|-------------------------|--------|
| Sample Chamber = 48.7°C | PASSED |
| Breath Tube = 47.5°C    | PASSED |

|                       |        |
|-----------------------|--------|
| PUMP INFO             |        |
| Flow Rate = 5.132 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 |
|-------------------|--------|

COB-2/18

## Technician Screen

-----  
DATAMASTER dmt: 100345  
-----

Date: 03/24/2011

Time: 9:30 AM

## Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 47.9°C

Current Barometer 29.5 in

Volume (Ltr) 1.51

## Settings

Lamp: 2.42 V

Bias: 79 V

Cooler: 1.99 V

Chopper: 538 Hz

## Voltages (V)

Flow: 1.04 V

Detector: 0.375 V

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## CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100345  
-----

Date: 03/22/2011  
Time: 13:02:05

SUPERVISOR NAME:  
CHARLES FOSTER  
CERTIFICATE #: 7734

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

|     |   |          |        |                |
|-----|---|----------|--------|----------------|
| Ca  | = | 0.1000   |        |                |
| CAL | = | 0.967566 | 0.800  | <= CAL < 1.200 |
| b1  | = | 0.0007   | 0.0000 | <= b1 < 0.0040 |
| b2  | = | 0.0055   | 0.0010 | <= b2 < 0.0100 |
| b3  | = | 0.0001   | 0.0000 | <= b3 < 0.0040 |
| Xq  | = | 0.1023   | 0.0500 | <= Xq < 0.2000 |
| a21 | = | 1.156247 | 1.050  | <= a21 < 1.300 |
| a31 | = | 0.508216 | 0.300  | <= a31 < 0.800 |

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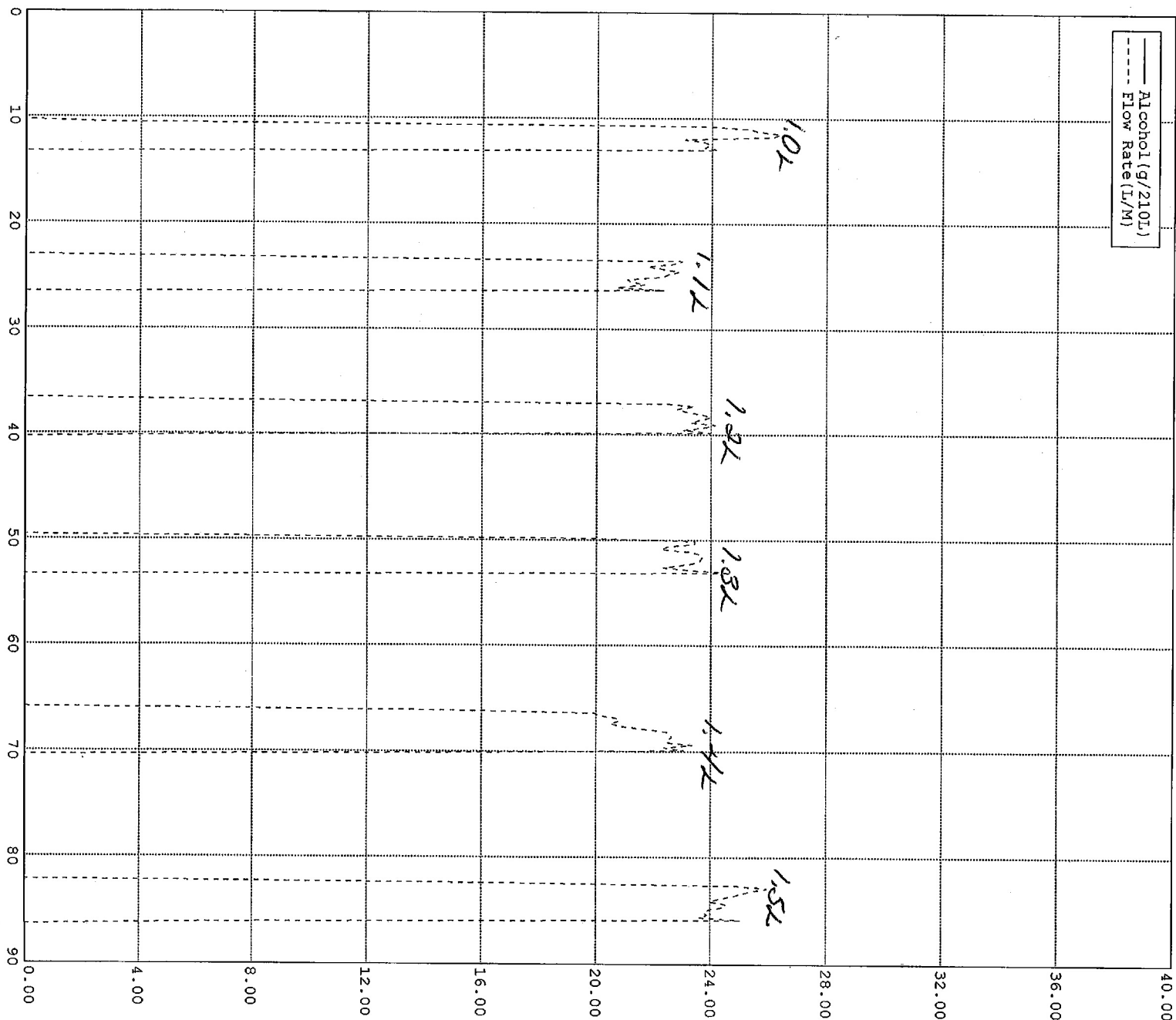
## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100345Date: 03/24/2011  
Time: 09:33:32SUBJECT NAME:  
TEST TEST  
LICENSE #: VOLUME TESTOPERATOR NAME:  
COLLEEN S O'BRYANT  
OPERATOR'S #: 6237DEPT/AGENCY:  
AAAI  
CASE/REPORT: 11-1234  
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.50: 0.078  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

|                   |          |       |
|-------------------|----------|-------|
| DIAGNOSTIC CHECK  | PASSED   | 09:34 |
| BLANK TEST        | 0.000    | 09:34 |
| INTERNAL STANDARD | VERIFIED | 09:34 |
| EXTERNAL STANDARD | 0.080    | 09:35 |
| BLANK TEST        | 0.000    | 09:36 |
| SUBJECT SAMPLE    | 0.000    | 09:37 |
| BLANK TEST        | 0.000    | 09:38 |
| EXTERNAL STANDARD | 0.079    | 09:38 |
| BLANK TEST        | 0.000    | 09:39 |

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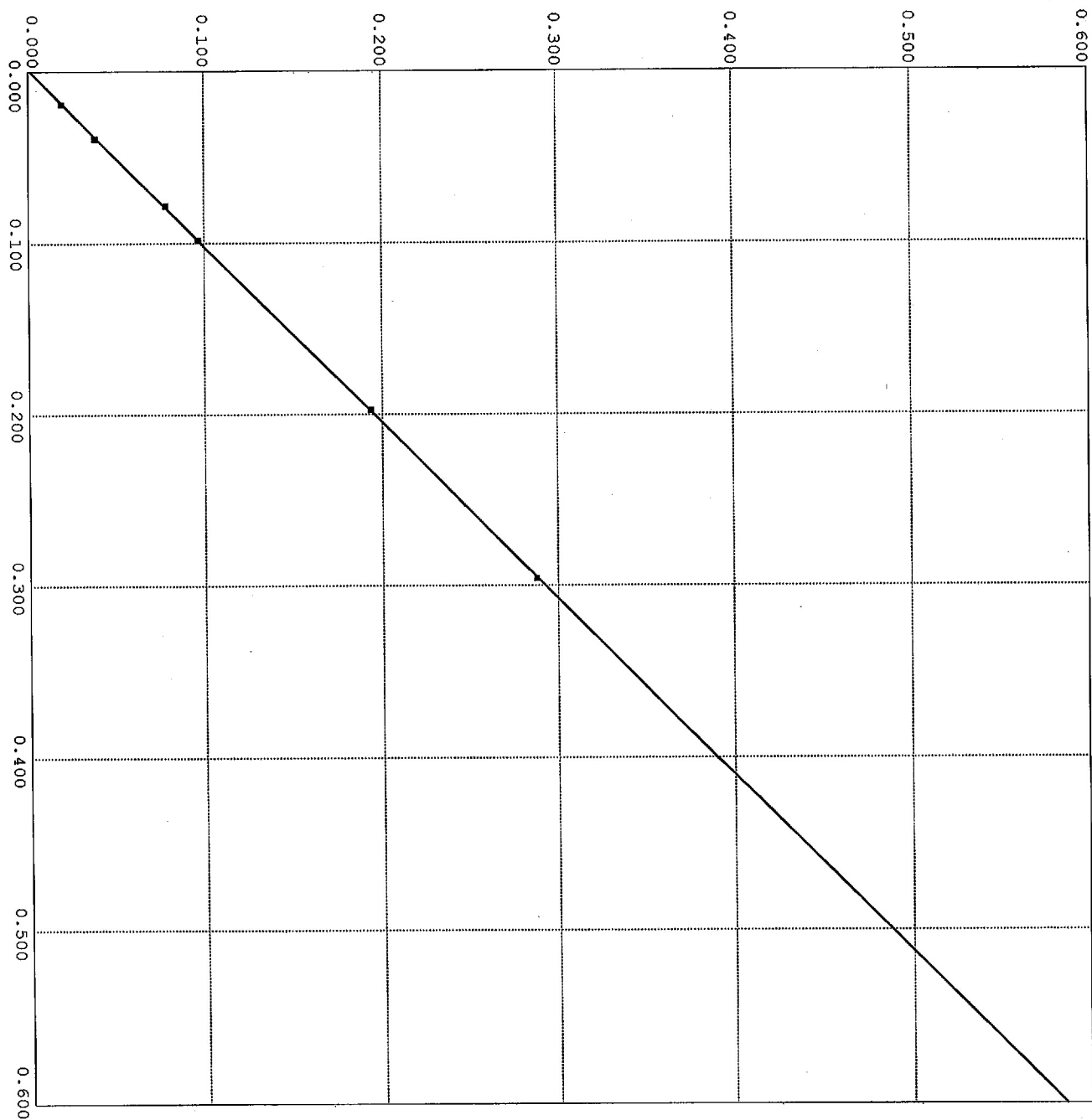
CB



## LINEARITY CHECK

Alaska Department of Public Safety  
DATAMASTER dmt: 100345Date: 03/24/2011  
Time: 09:50:38SUPERVISOR NAME:  
COLLEEN S O'BRYANT  
OPERATOR'S #: 6237

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.019  | 0.0198  | 0.0004    |
| 0.039  | 0.0390  | 0.0000    |
| 0.078  | 0.0790  | 0.0007    |
| 0.098  | 0.0976  | 0.0005    |
| 0.197  | 0.1944  | 0.0021    |
| 0.295  | 0.2886  | 0.0013    |

SLOPE = 0.974322  
 $R^2$  = 0.999969

CUB/18

CUB

## LINEARITY CHECK: Control Test 1

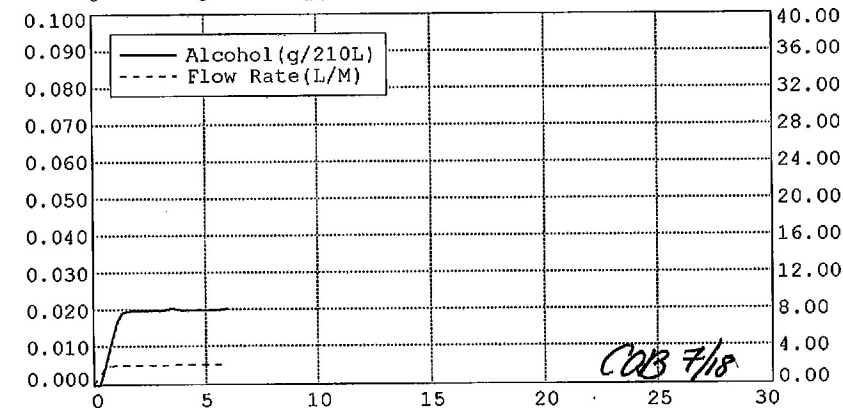
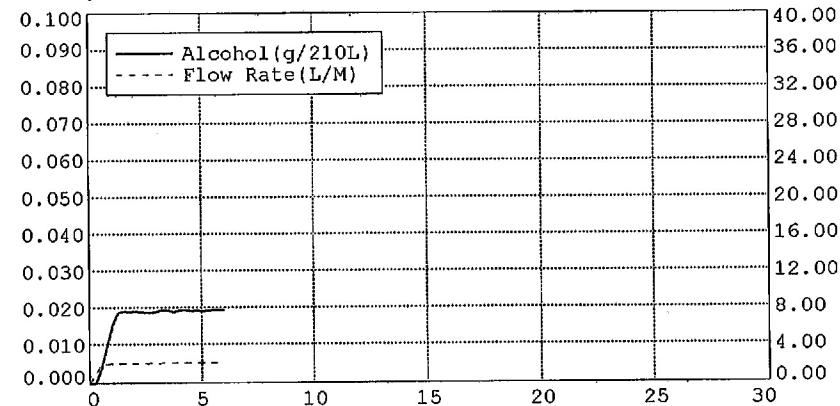
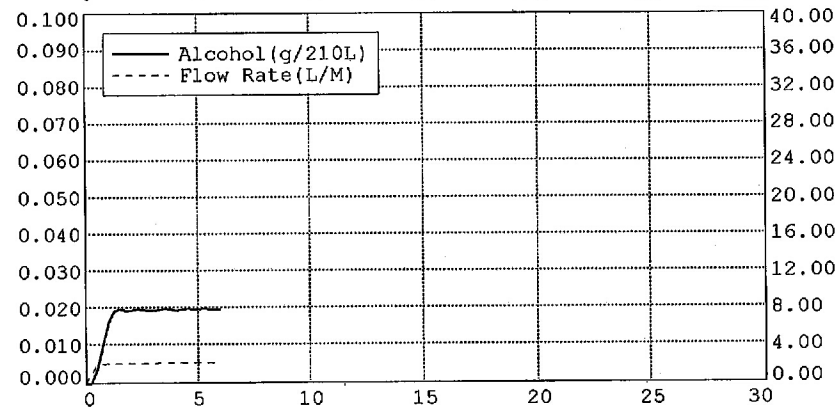
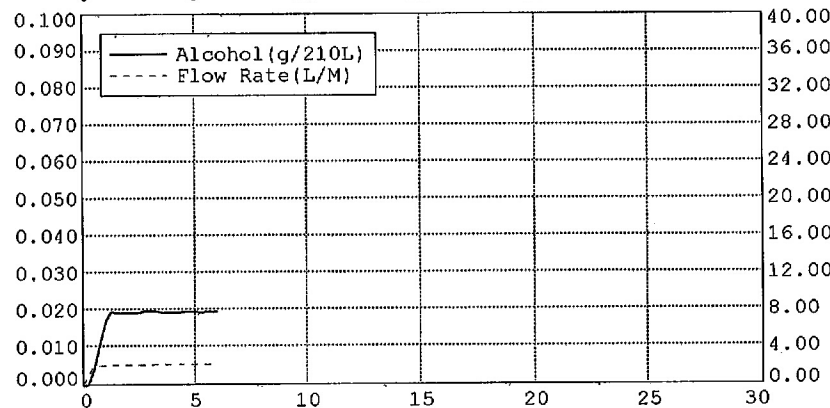
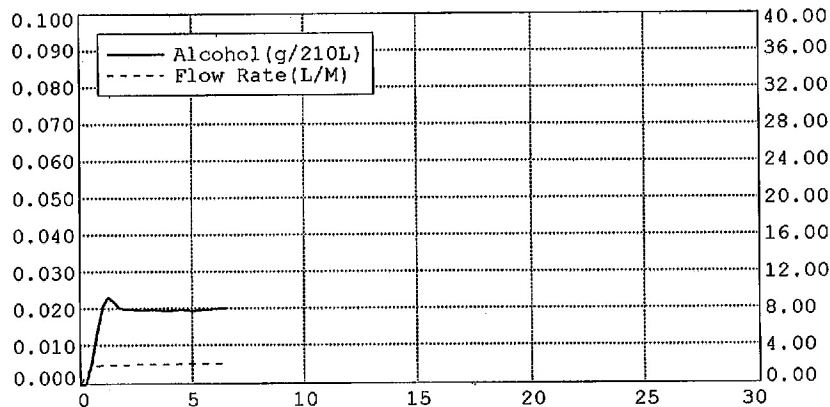
Alaska Department of Public Safety  
DATAMASTER dmt: 100345

Date: 03/24/2011  
Time: 09:50:40

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

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:51 |
| INTERNAL STANDARD | VERIFIED | 09:52 |
| EXTERNAL STANDARD | 0.020    | 09:52 |
| BLANK TEST        | 0.000    | 09:53 |
| EXTERNAL STANDARD | 0.020    | 09:53 |
| BLANK TEST        | 0.000    | 09:54 |
| EXTERNAL STANDARD | 0.020    | 09:54 |
| BLANK TEST        | 0.000    | 09:55 |
| EXTERNAL STANDARD | 0.019    | 09:55 |
| BLANK TEST        | 0.000    | 09:56 |
| EXTERNAL STANDARD | 0.020    | 09:56 |
| BLANK TEST        | 0.000    | 09:57 |

Average = 0.0198  
Std Dev = 0.0004



## LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100345

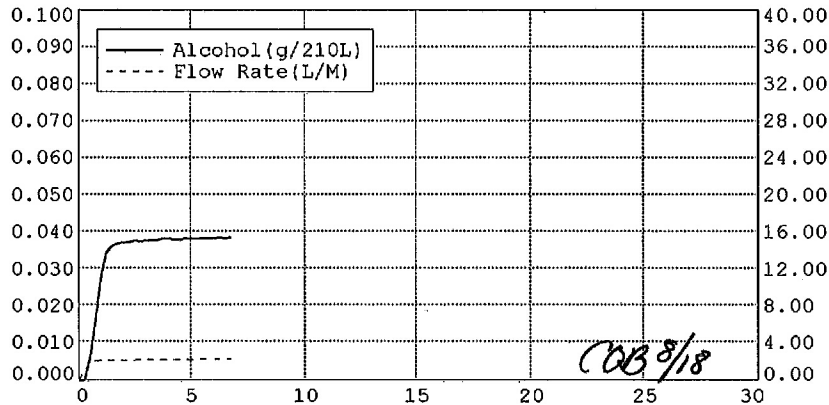
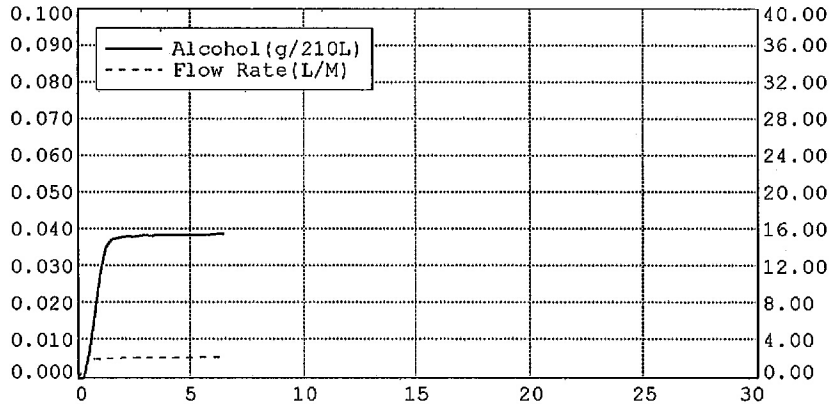
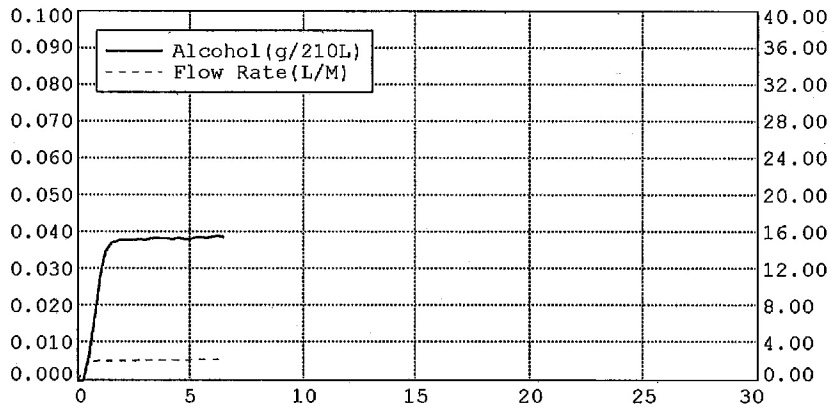
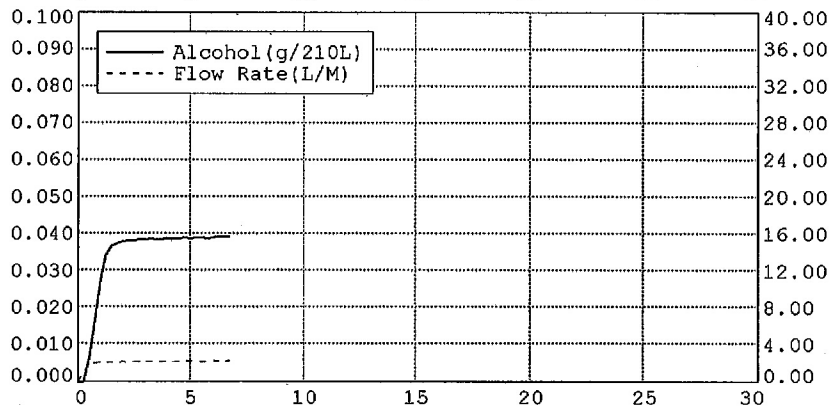
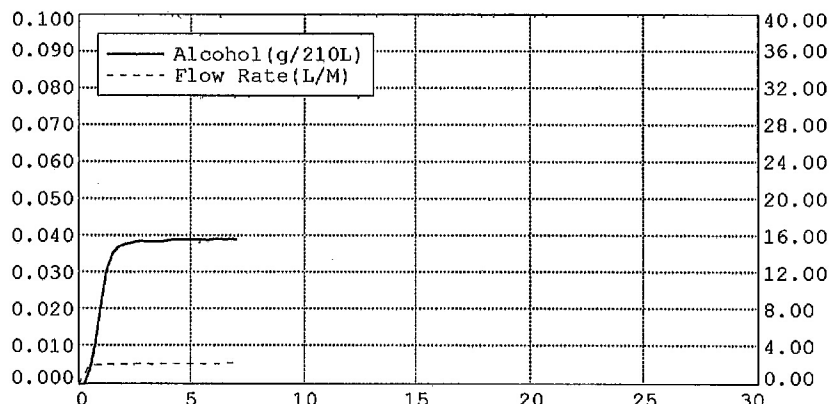
Date: 03/24/2011  
Time: 09:58:42

## EXTERNAL STANDARD INFORMATION

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

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:59 |
| INTERNAL STANDARD | VERIFIED | 09:59 |
| EXTERNAL STANDARD | 0.039    | 10:00 |
| BLANK TEST        | 0.000    | 10:00 |
| EXTERNAL STANDARD | 0.039    | 10:01 |
| BLANK TEST        | 0.000    | 10:02 |
| EXTERNAL STANDARD | 0.039    | 10:02 |
| BLANK TEST        | 0.000    | 10:03 |
| EXTERNAL STANDARD | 0.039    | 10:03 |
| BLANK TEST        | 0.000    | 10:04 |
| EXTERNAL STANDARD | 0.039    | 10:04 |
| BLANK TEST        | 0.000    | 10:05 |

Average = 0.0390  
Std Dev = 0.0000



## LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100345

Date: 03/24/2011  
Time: 10:08:11

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

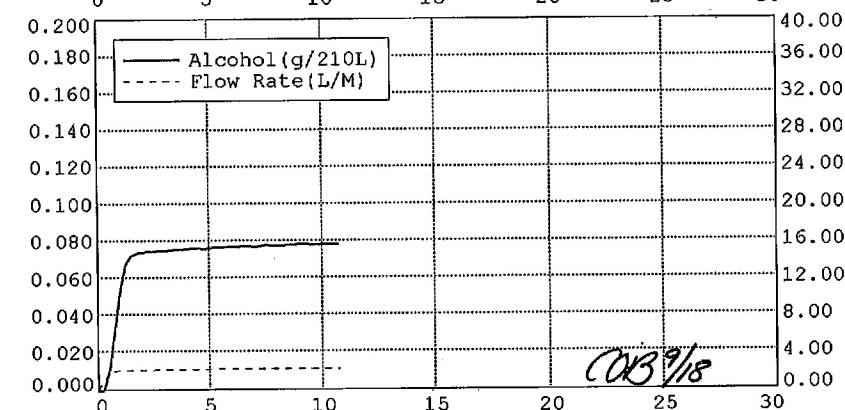
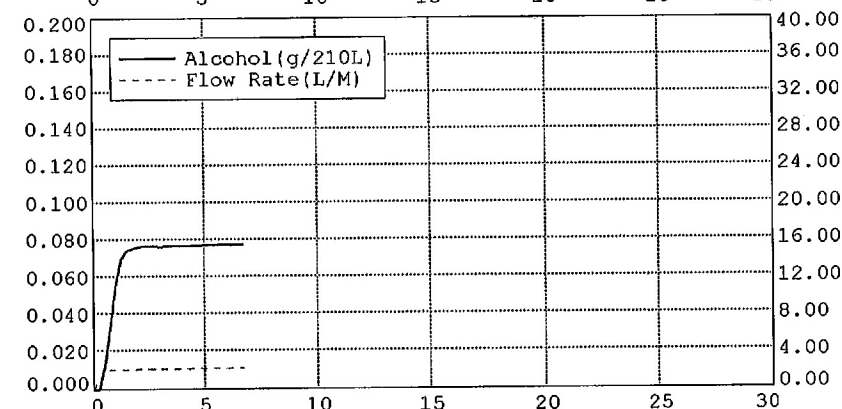
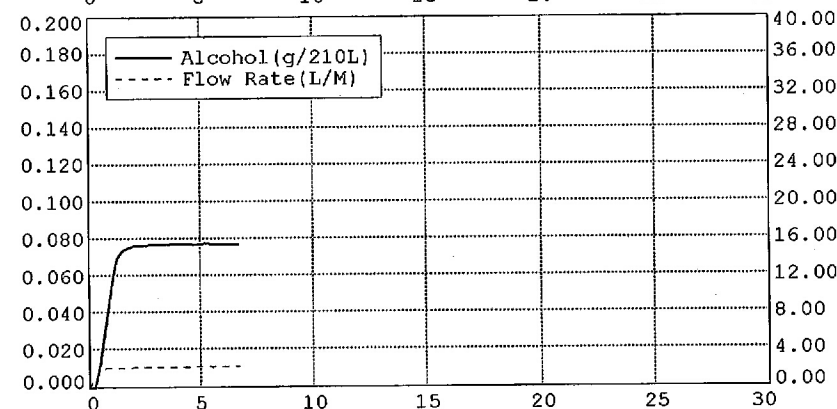
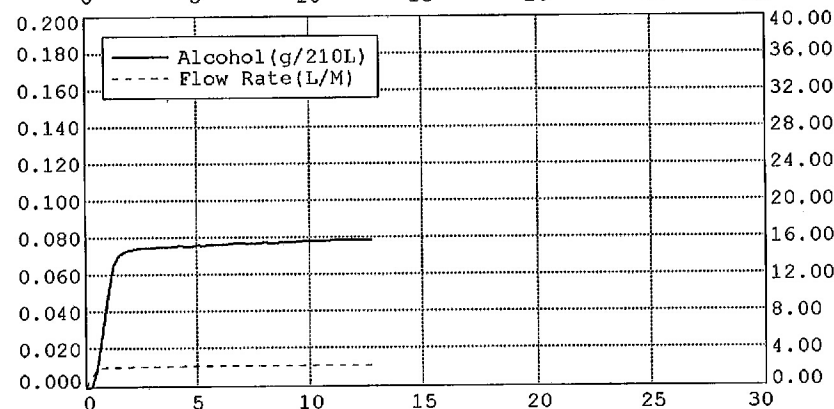
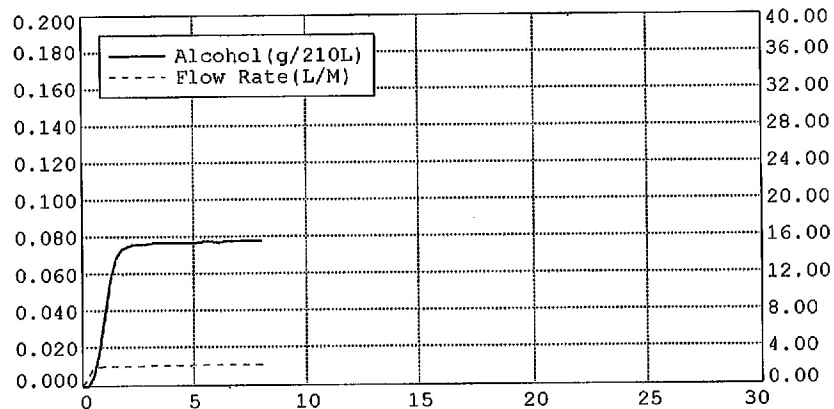
TARGET AT 29.49: 0.078

LOT #: ~~0251111080A3~~ 02511080A3 <sup>MS</sup>  
4/8/11

EXPIRATION: 02/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:10 |
| INTERNAL STANDARD | VERIFIED | 10:10 |
| EXTERNAL STANDARD | 0.079    | 10:10 |
| BLANK TEST        | 0.000    | 10:11 |
| EXTERNAL STANDARD | 0.080    | 10:12 |
| BLANK TEST        | 0.000    | 10:12 |
| EXTERNAL STANDARD | 0.078    | 10:13 |
| BLANK TEST        | 0.000    | 10:14 |
| EXTERNAL STANDARD | 0.079    | 10:14 |
| BLANK TEST        | 0.000    | 10:15 |
| EXTERNAL STANDARD | 0.079    | 10:15 |
| BLANK TEST        | 0.000    | 10:16 |

Average = 0.0790  
Std Dev = 0.0007





## LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
DATAMASTER dmt: 100345

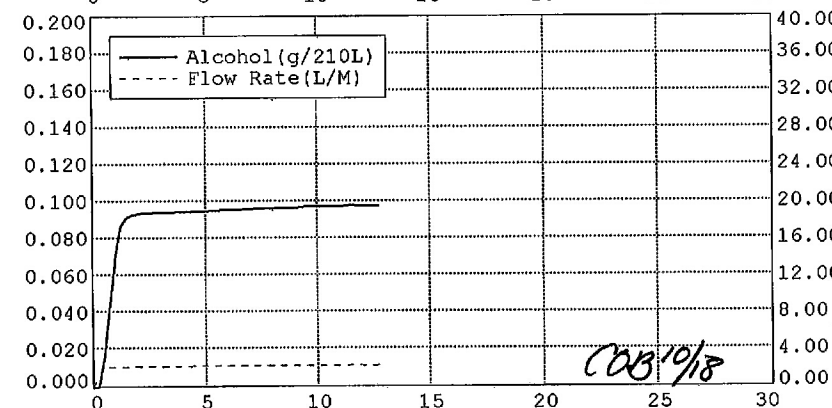
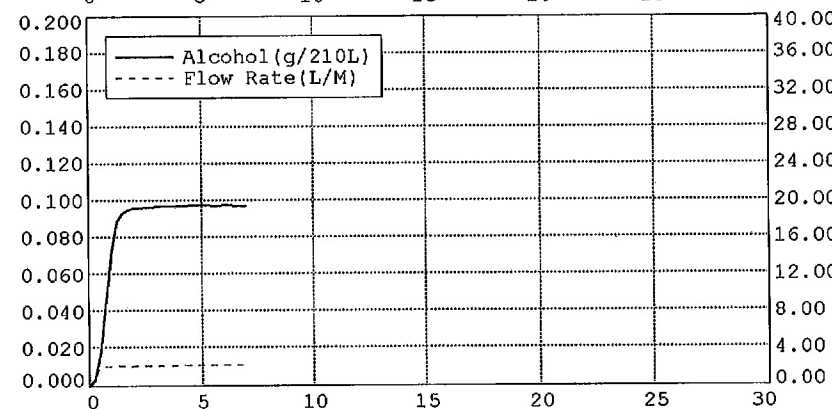
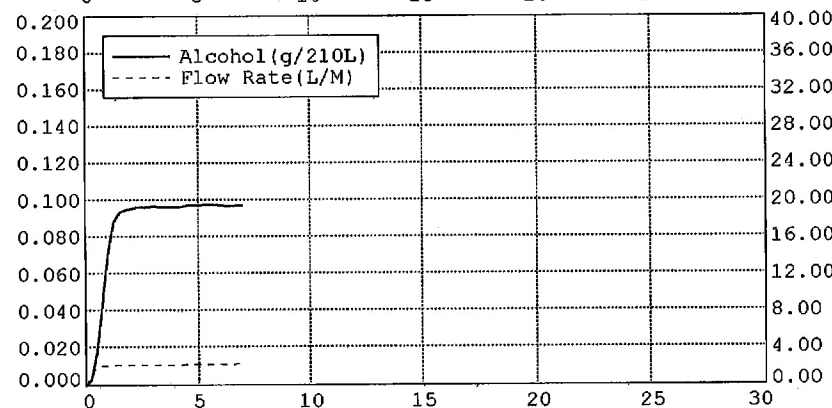
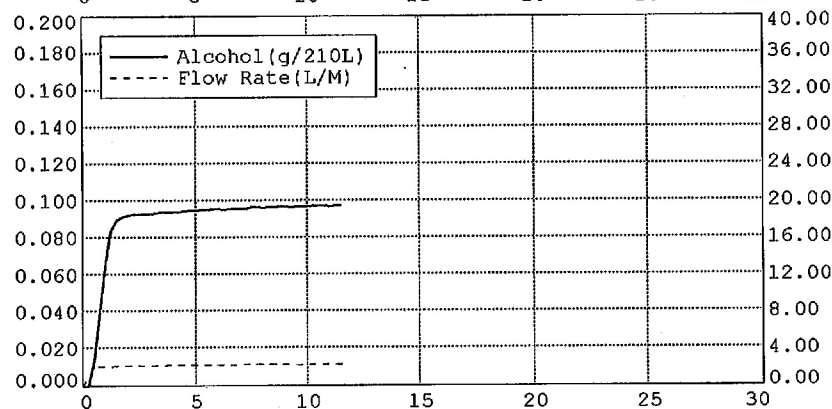
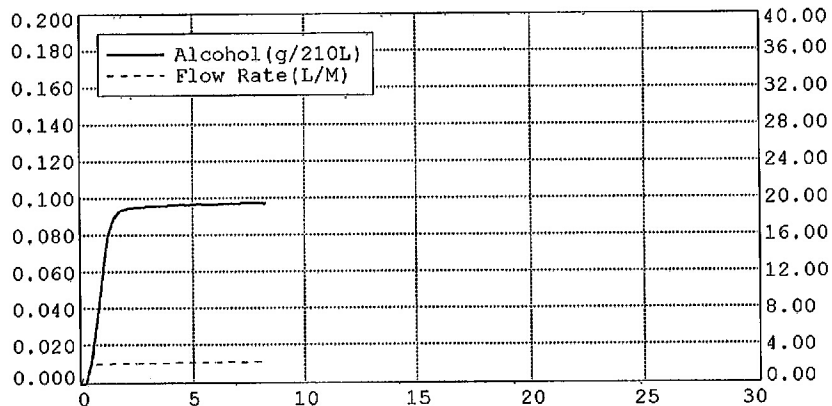
Date: 03/24/2011  
Time: 10:17:49

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
TARGET AT 29.49: 0.098  
LOT #: 05611100A2  
EXPIRATION: 03/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:18 |
| INTERNAL STANDARD | VERIFIED | 10:18 |
| EXTERNAL STANDARD | 0.098    | 10:19 |
| BLANK TEST        | 0.000    | 10:20 |
| EXTERNAL STANDARD | 0.098    | 10:20 |
| BLANK TEST        | 0.000    | 10:21 |
| EXTERNAL STANDARD | 0.097    | 10:21 |
| BLANK TEST        | 0.000    | 10:22 |
| EXTERNAL STANDARD | 0.097    | 10:22 |
| BLANK TEST        | 0.000    | 10:23 |
| EXTERNAL STANDARD | 0.098    | 10:23 |
| BLANK TEST        | 0.000    | 10:24 |

Average = 0.0976  
Std Dev = 0.0005



## LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
DATAMASTER dmt: 100345

Date: 03/24/2011  
Time: 10:26:19

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200

TARGET AT 29.48: 0.197

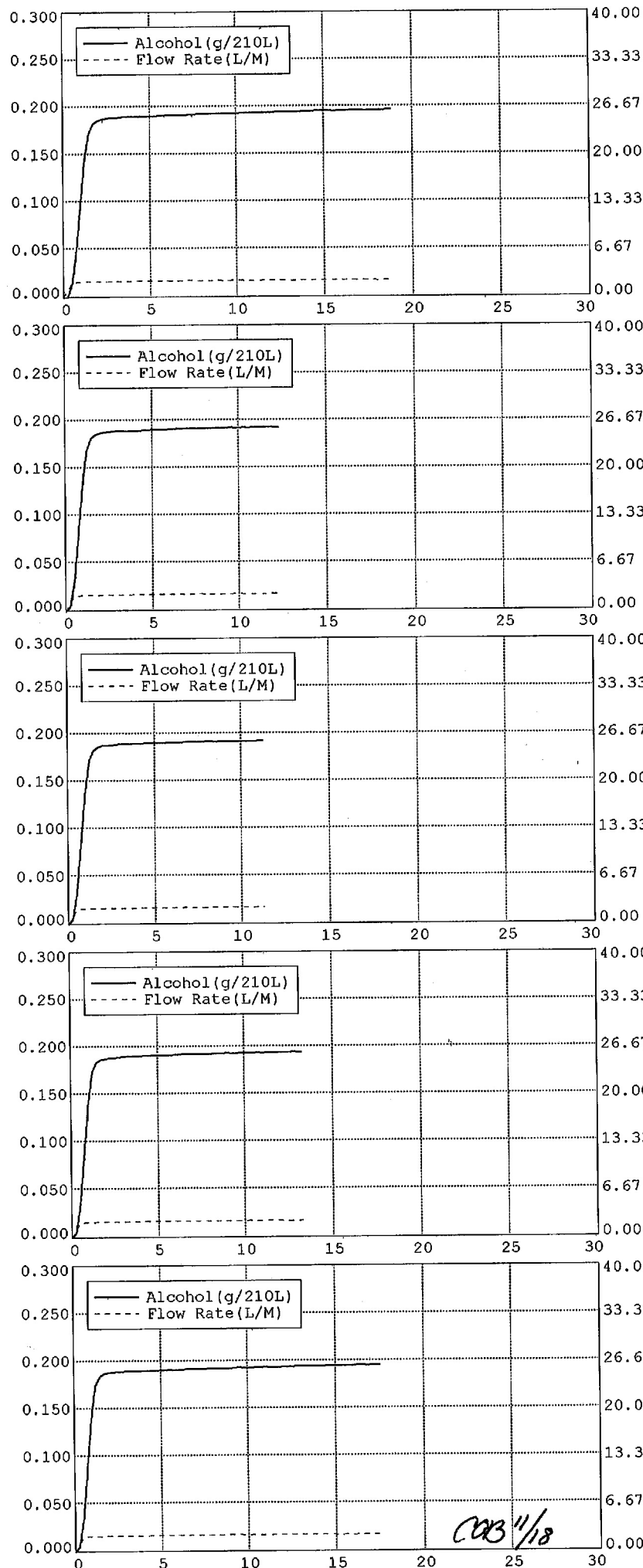
LOT #: ~~074111200A2~~ ~~074111200A2~~ 07411200A2

EXPIRATION: 03/01/2013

COB 4/8/11

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:27 |
| INTERNAL STANDARD | VERIFIED | 10:27 |
| EXTERNAL STANDARD | 0.197    | 10:27 |
| BLANK TEST        | 0.000    | 10:28 |
| EXTERNAL STANDARD | 0.193    | 10:29 |
| BLANK TEST        | 0.000    | 10:30 |
| EXTERNAL STANDARD | 0.192    | 10:30 |
| BLANK TEST        | 0.000    | 10:31 |
| EXTERNAL STANDARD | 0.194    | 10:31 |
| BLANK TEST        | 0.000    | 10:32 |
| EXTERNAL STANDARD | 0.196    | 10:32 |
| BLANK TEST        | 0.000    | 10:33 |

Average = 0.1944  
Std Dev = 0.0021



## LINEARITY CHECK: Control Test 6

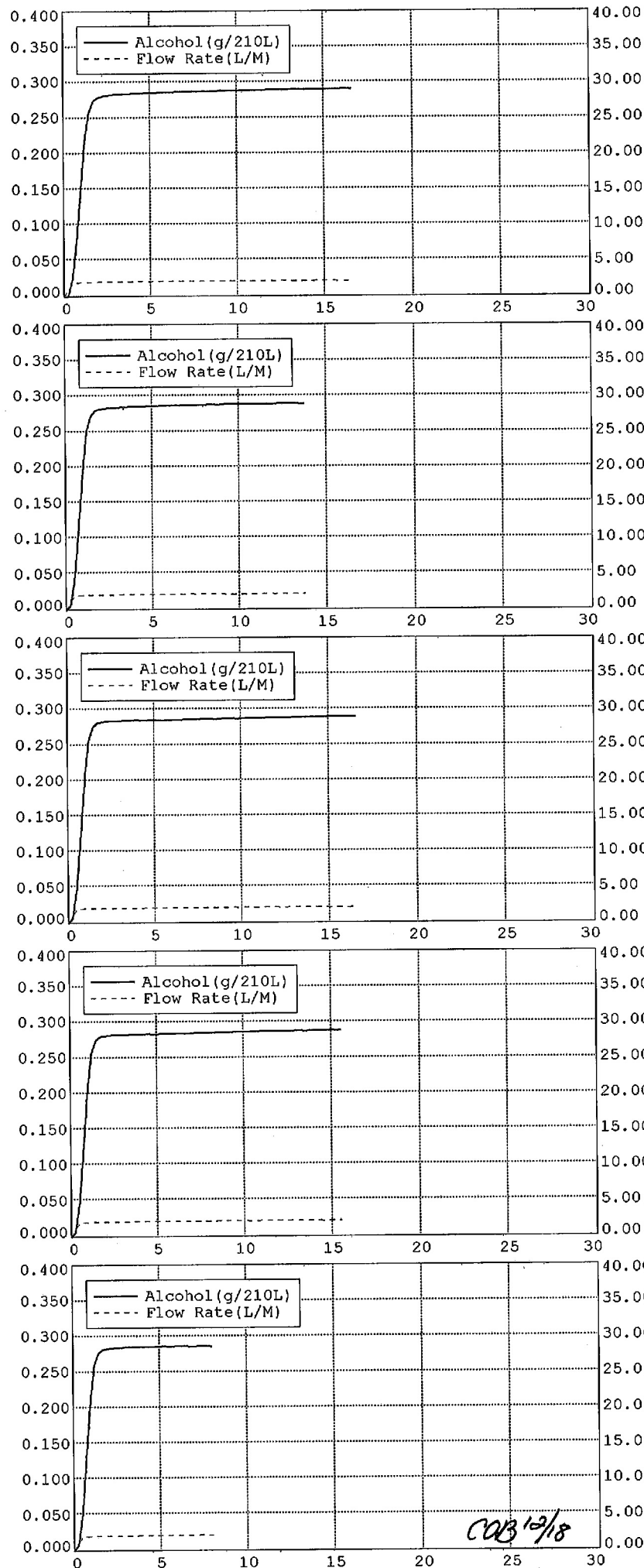
Alaska Department of Public Safety  
DATAMASTER dmt: 100345

Date: 03/24/2011  
Time: 10:35:18

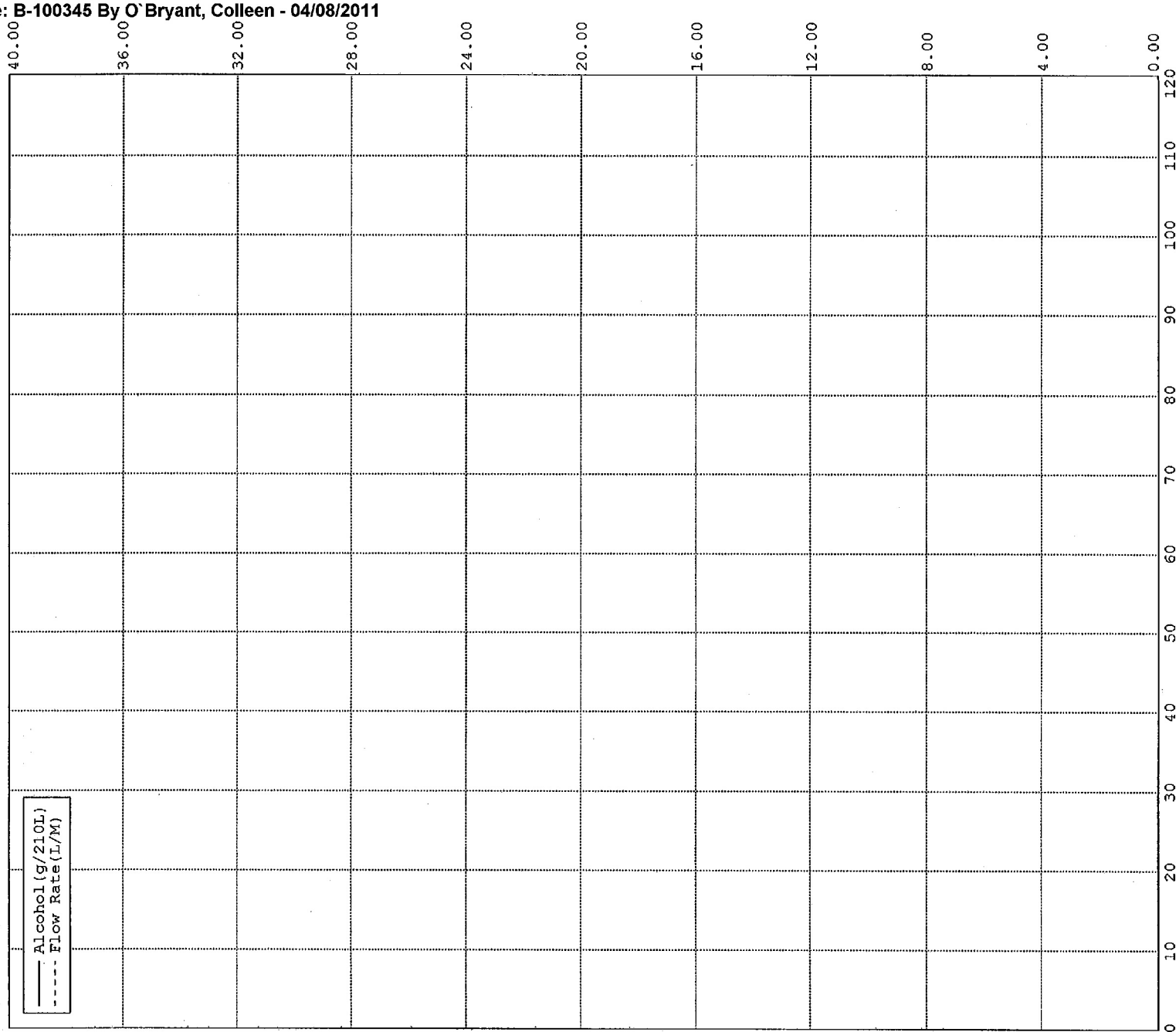
EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.300  
TARGET AT 29.47: 0.295  
LOT #: 07411300A1  
EXPIRATION: 03/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:36 |
| INTERNAL STANDARD | VERIFIED | 10:36 |
| EXTERNAL STANDARD | 0.290    | 10:37 |
| BLANK TEST        | 0.000    | 10:38 |
| EXTERNAL STANDARD | 0.288    | 10:38 |
| BLANK TEST        | 0.000    | 10:39 |
| EXTERNAL STANDARD | 0.290    | 10:39 |
| BLANK TEST        | 0.000    | 10:40 |
| EXTERNAL STANDARD | 0.288    | 10:41 |
| BLANK TEST        | 0.000    | 10:41 |
| EXTERNAL STANDARD | 0.287    | 10:42 |
| BLANK TEST        | 0.000    | 10:43 |

Average = 0.2886  
Std Dev = 0.0013







## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100345

Date: 03/24/2011  
Time: 12:01:47

SUBJECT NAME:  
TEST TEST  
LICENSE #: INCOMPLETE

OPERATOR NAME:  
COLLEEN S O'BRYANT  
OPERATOR'S #: 6237

DEPT/AGENCY:  
AAA1

CASE/REPORT: 11-1234  
TEST TYPE: TEST

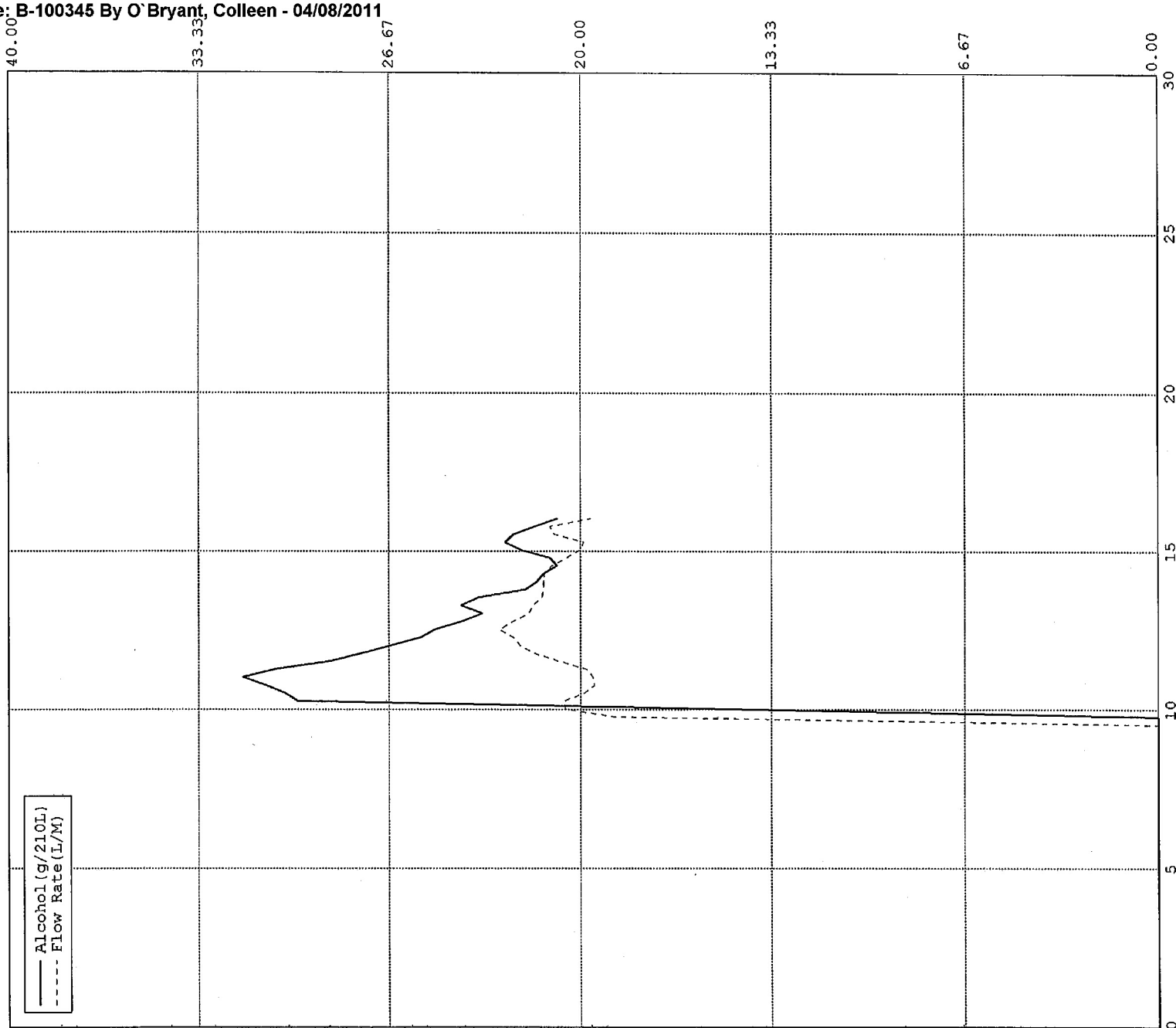
## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.46: 0.078  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

|                   |            |       |
|-------------------|------------|-------|
| DIAGNOSTIC CHECK  | PASSED     | 12:02 |
| BLANK TEST        | 0.000      | 12:02 |
| INTERNAL STANDARD | VERIFIED   | 12:03 |
| EXTERNAL STANDARD | 0.078      | 12:03 |
| BLANK TEST        | 0.000      | 12:04 |
| SUBJECT SAMPLE    | INCOMPLETE | 12:06 |

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COB



## SUBJECT TEST

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100345  
 -----

Date: 03/24/2011  
 Time: 12:16:57

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INVALID

OPERATOR NAME:  
 COLLEEN S OBRYANT  
 OPERATOR'S #: 6237

DEPT/AGENCY:  
 AAA1

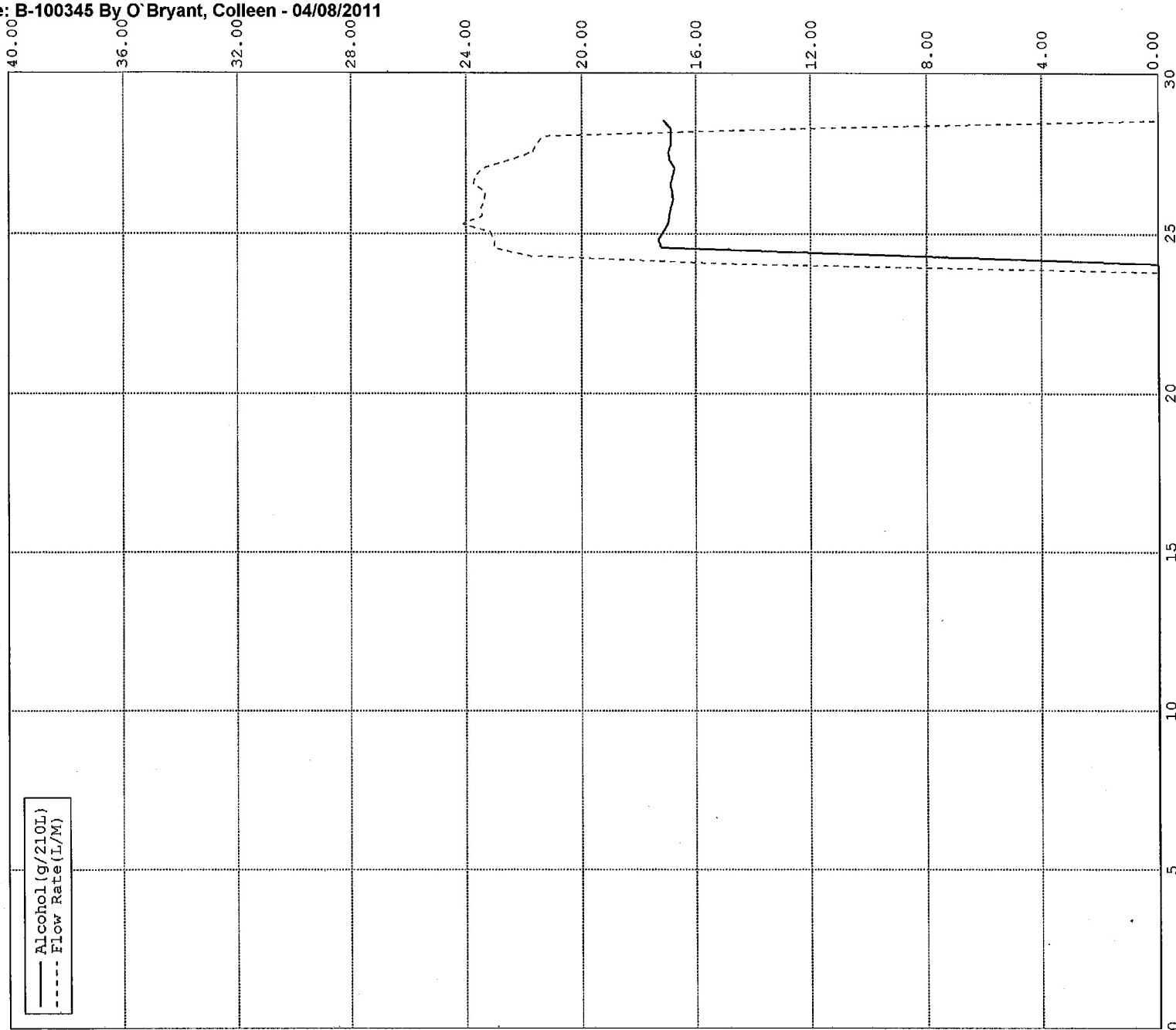
CASE/REPORT: 11-1234  
 TEST TYPE: TEST

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.46: 0.078  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 12:18  
 BLANK TEST 0.000 12:18  
 INTERNAL STANDARD VERIFIED 12:18  
 EXTERNAL STANDARD 0.079 12:18  
 BLANK TEST 0.000 12:19  
 SUBJECT SAMPLE Invalid 12:19

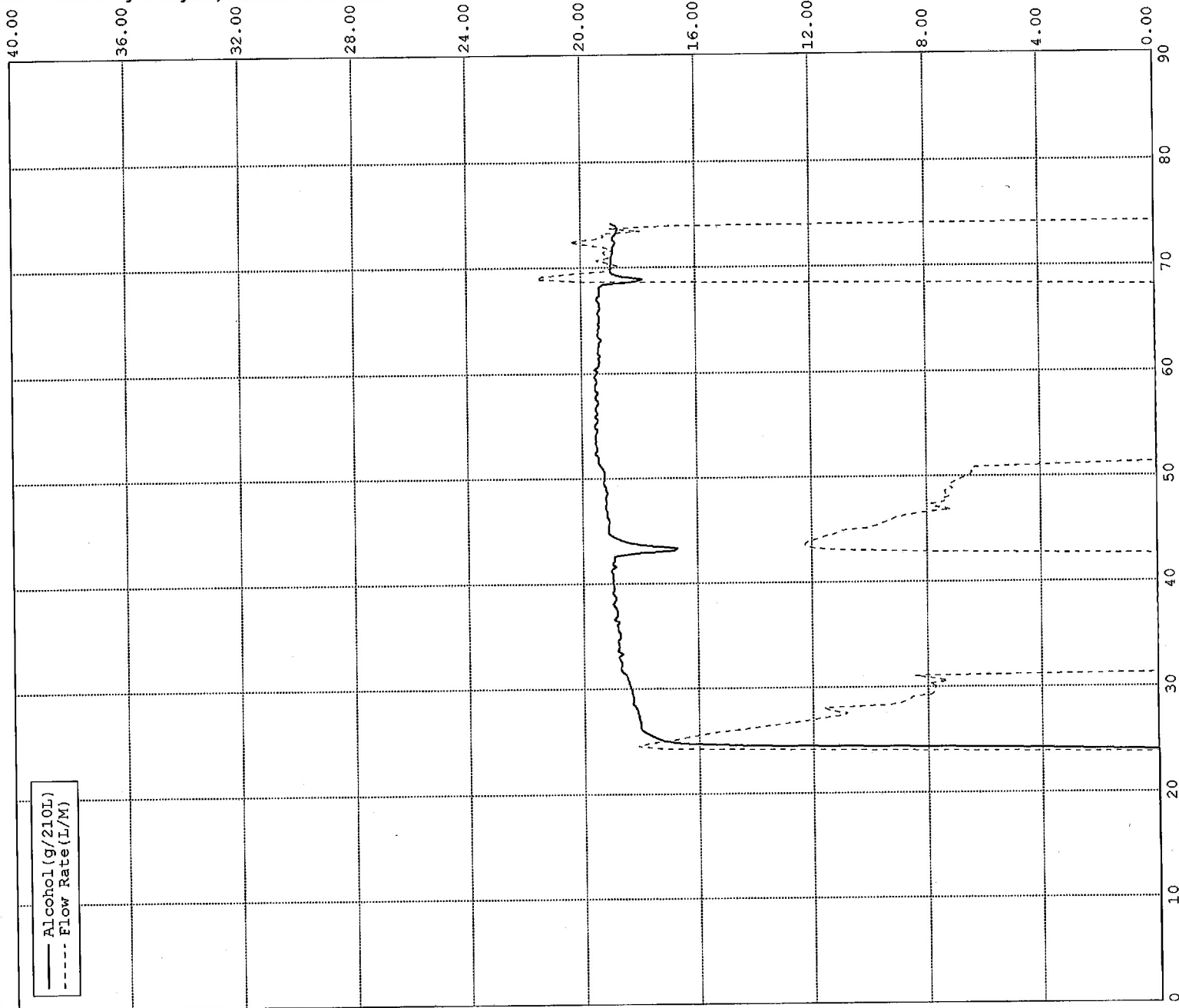
COB 14/18



|                                                                                                                          |                    |
|--------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>SUBJECT TEST</b>                                                                                                      |                    |
| Alaska Department of Public Safety<br>DATAMASTER dmt: 100345                                                             |                    |
| Date: 03/24/2011<br>Time: 12:21:50                                                                                       |                    |
| SUBJECT NAME:<br>TEST TEST<br>LICENSE #: INTF - ACET                                                                     |                    |
| OPERATOR NAME:<br>COLLEEN S O'BRYANT<br>OPERATOR'S #: 6237                                                               |                    |
| DEPT/AGENCY:<br>AAA1                                                                                                     |                    |
| CASE/REPORT: 11-1234<br>TEST TYPE: TEST                                                                                  |                    |
| EXTERNAL STANDARD INFORMATION<br>NOMINAL: 0.080<br>TARGET AT 29.46: 0.078<br>LOT #: 02511080A3<br>EXPIRATION: 02/01/2013 |                    |
| DIAGNOSTIC CHECK                                                                                                         | PASSED 12:22       |
| BLANK TEST                                                                                                               | 0.000 12:22        |
| INTERNAL STANDARD                                                                                                        | VERIFIED 12:23     |
| EXTERNAL STANDARD                                                                                                        | 0.078 12:23        |
| BLANK TEST                                                                                                               | 0.000 12:24        |
| SUBJECT SAMPLE                                                                                                           | INTERFERENCE 12:24 |

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CB



## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100345

Date: 03/24/2011  
 Time: 12:28:42

## SUBJECT NAME:

TEST TEST

LICENSE #: INTF-ISO

## OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

## DEPT/AGENCY:

AAA1

CASE/REPORT: 11-1234

TEST TYPE: TEST

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.46: 0.078

LOT #: 02511080A3

EXPIRATION: 02/01/2013

## DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 12:29  
 0.000 12:29  
 VERIFIED 12:29  
 0.079 12:30  
 0.000 12:31  
 INTERFERENCE 12:32

*Handwritten signature/initials*

*Handwritten date: 03/16/18*

SUBJECT TEST

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100345  
-----

Date: 03/24/2011  
Time: 12:59:40

SUBJECT NAME:  
TEST TEST  
LICENSE #: RFI

OPERATOR NAME:  
COLLEEN S OBRYANT  
OPERATOR'S #: 6237

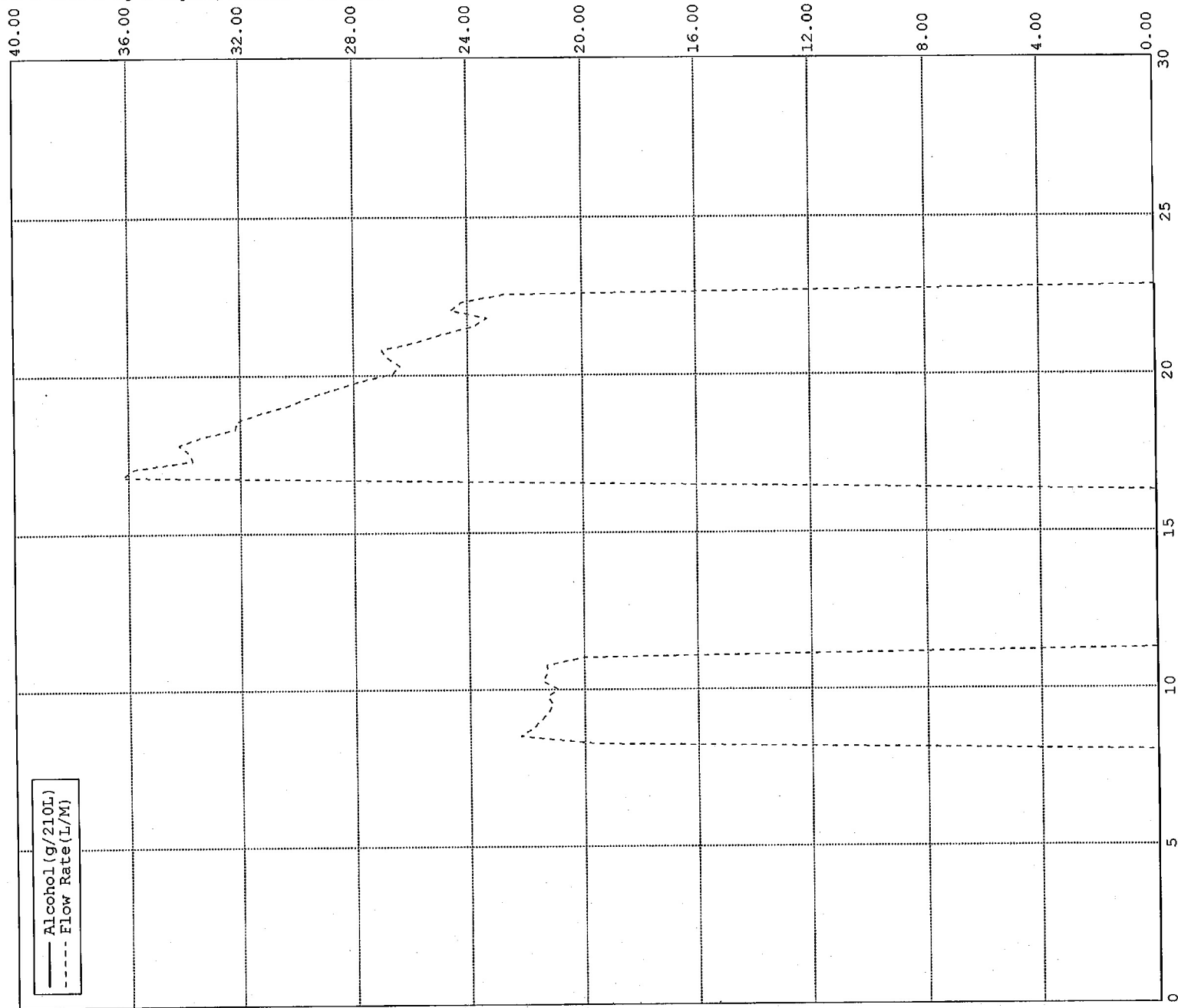
DEPT/AGENCY:  
AAA1

CASE/REPORT: 11-1234  
TEST TYPE: TEST

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

RFI Detected

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## SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100345

Date: 04/08/2011

Time: 11:33:30

SUBJECT NAME:

TEST TEST

LICENSE #: NON-DRINKING

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAAI

CASE/REPORT: 11-1234

TEST TYPE: TEST

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.13: 0.077

LOT #: 02511080A3

EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK  | PASSED | 11:34 |
|-------------------|--------|-------|
| BLANK TEST        | 0.000  | 11:34 |
| INTERNAL STANDARD | 0.077  | 11:34 |
| EXTERNAL STANDARD | 0.077  | 11:35 |
| BLANK TEST        | 0.000  | 11:35 |
| SUBJECT SAMPLE    | 0.000  | 11:36 |
| BLANK TEST        | 0.000  | 11:37 |
| EXTERNAL STANDARD | 0.077  | 11:37 |
| BLANK TEST        | 0.000  | 11:38 |

CAS

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