	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 # 100425Analyst Colleen O'BryantDate 8/29/11

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 1600 mL
5. Dry Gas Linearity Test (attached)
  - a. Levels Used 
    - i. 0.020g/210L Mnf TLMO Lot 15210020A1 Exp 07/01/12
    - ii. 0.040g/210L Mnf TLMO Lot 15210020A2 Exp 07/01/12
    - iii. 0.080g/210L Mnf TLMO Lot 02511080A3 Exp 02/01/13
    - iv. 0.100g/210L Mnf TLMO Lot 0761100A3 Exp 03/01/13
    - v. 0.200g/210L Mnf TLMO Lot 07411200A2 Exp 03/01/13
    - vi. 0.300g/210L Mnf TLMO Lot 07611300A1 Exp 03/01/13
6. Functional Tests (attached)
  - a. Incomplete
  - b. Invalid
  - c. Interference 
    - i. Acetone - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/12
      1. Simulator Calibration Date 12/15/10 SN DR 4176
    - ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/12
      1. Simulator Calibration Date 12/16/10 SN SD 1198
  - 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  
DATAMASTER dmt: 100423

Date: 08/29/2011  
Time: 13:48:09

## VERSIONS

DMT: 1.01  
PIC: 3.03  
Modem: 2.0  
Questions: 2.2

## TEMPERATURES

Sample Chamber = 49.0°C      PASSED  
Breath Tube      = 49.1°C      PASSED

## PUMP INFO

Flow Rate = 5.005 L/M      PASSED

## DETECTOR INFO

PUMP ON      PASSED  
PUMP OFF      PASSED

## FILTER INFO

Filter 1      PASSED  
Filter 2      PASSED  
Filter 3      PASSED

INTERNAT. STANDARD      PASSED

COB 2/18

## Technician Screen

-----  
DATAMASTER dnt: 100423  
-----Date: 08/29/2011  
Time: 1:57 PM

## Temperatures (°C)

Sample Cell: 49.0°C  
Breath Tube: 47.3°CCurrent Barometer 29.8 in  
Volume (Ltr) 1.44

## Settings

Lamp: 1.79 V  
Bias: 79 V  
Cooler: 1.66 V  
Chopper: 552 Hz

## Voltages (V)

Flow: 1.06 V  
Detector: 0.126 V

COB/18

CALIBRATION FACTORS

Alaska Department of Public Safety  
DATAMASTER dnt: 100423

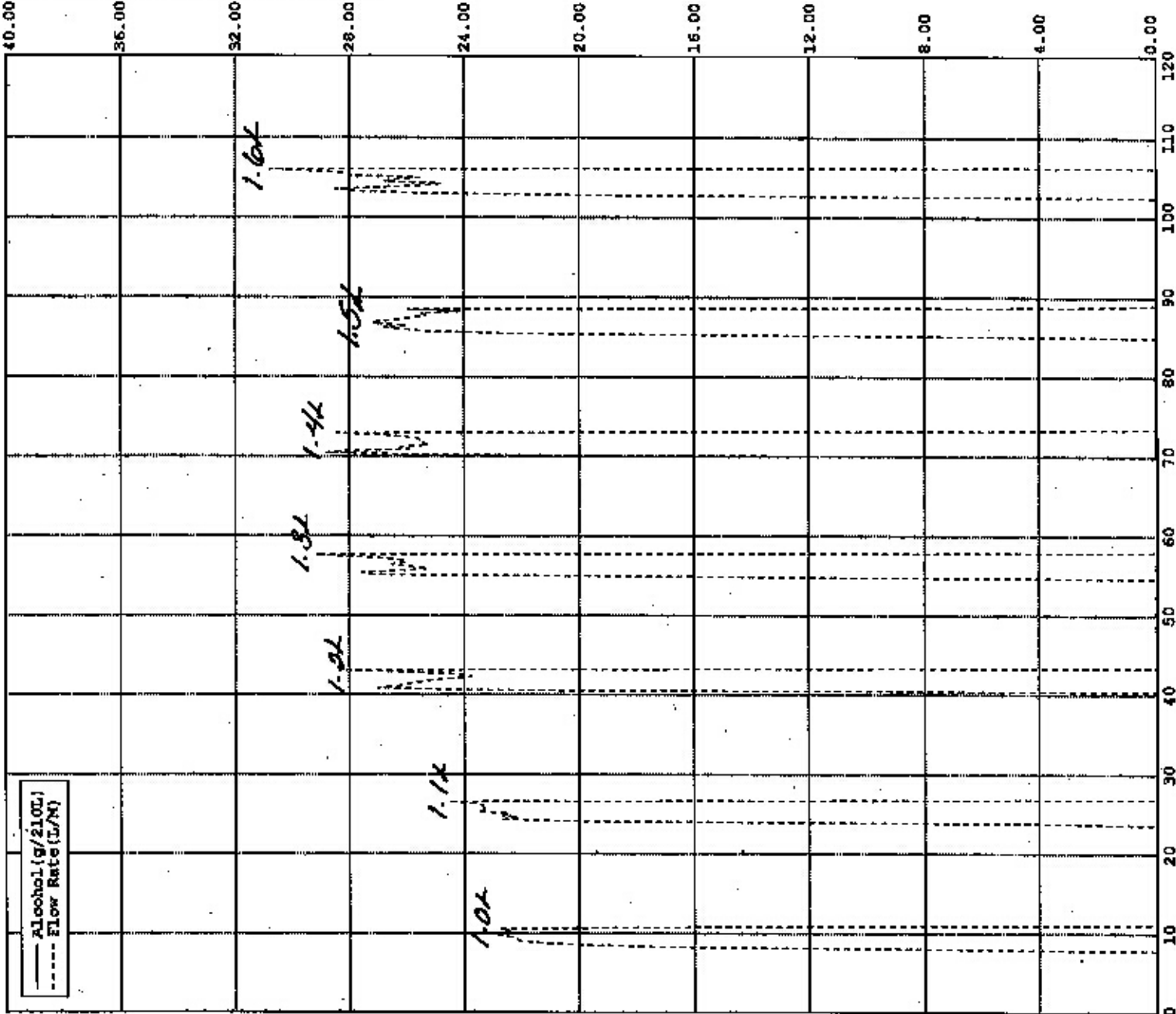
Date: 08/25/2011  
Time: 12:00:13

SUPERVISOR NAME:  
COLLEEN S O'BRYANT  
CERTIFICATE #: 6237

LOT #: GUTH100  
BOTTLE #: 11050  
EXPIRATION: 04/06/2013

Ca	=	0.1000			
CAL	=	1.003840	0.800	<=	CAL < 1.200
b1	=	0.0004	0.0000	<=	b1 < 0.0040
b2	=	0.0028	0.0010	<=	b2 < 0.0100
b3	=	0.0001	0.0000	<=	b3 < 0.0040
Xq	=	0.0925	0.0500	<=	Xq < 0.2000
a21	=	1.149484	1.050	<=	a21 < 1.300
a31	=	0.544067	0.300	<=	a31 < 0.800

COB 4/18



**SUBJECT TEST**

Alaska Department of Public Safety  
 DATA MASTER dnt: 100423

Date: 08/29/2011  
 Time: 14:02:34

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: VOLUME TEST

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

DEPT/AGENCY:  
 AAA1

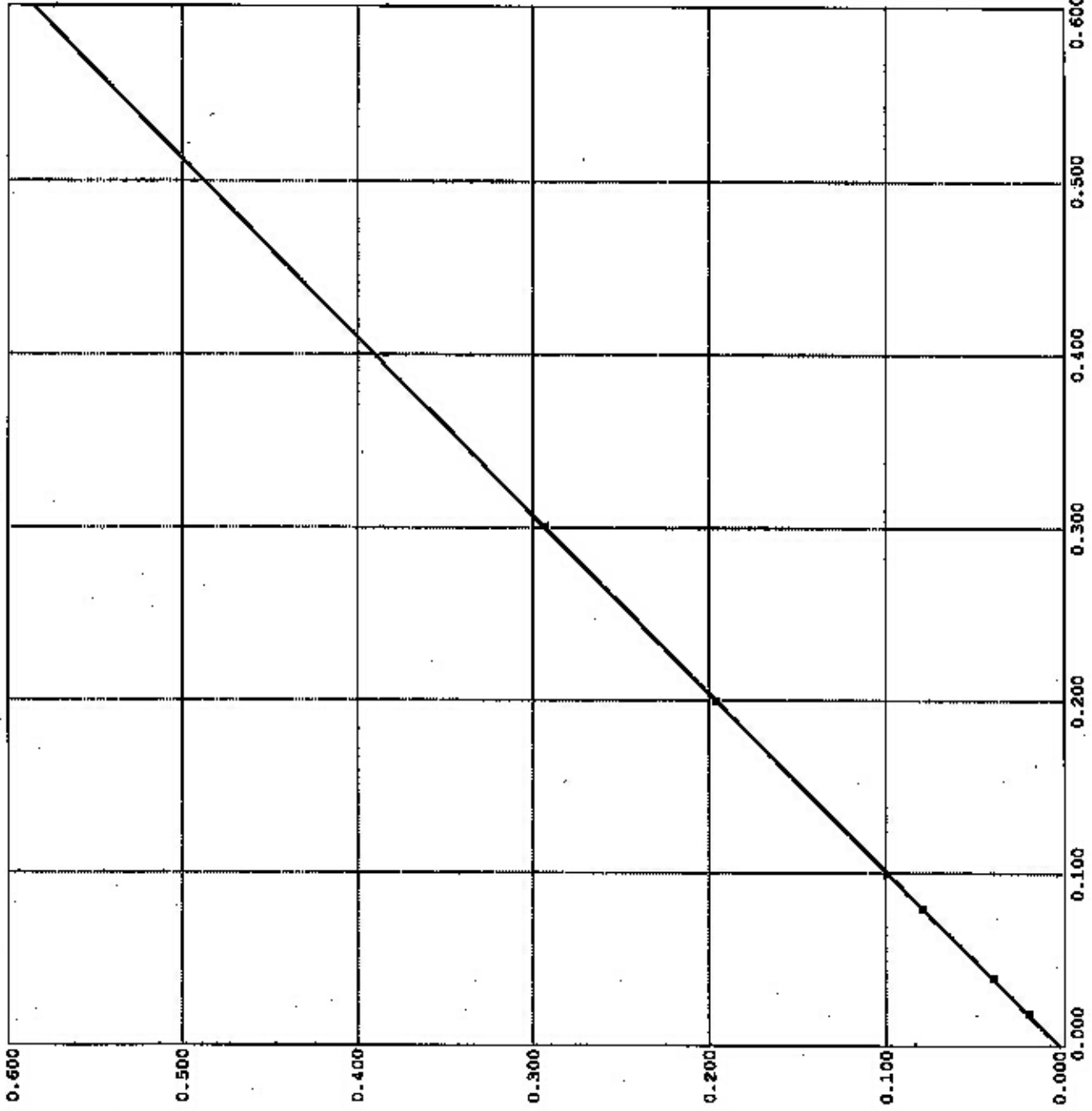
CASE/REPORT: 11-1234  
 TEST TYPE: TEST

**EXTERNAL STANDARD INFORMATION**

NOMINAL: 0.080  
 TARGET AT 29.77: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	14:03
BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:04
EXTERNAL STANDARD	0.079	14:04
BLANK TEST	0.000	14:05
SUBJECT SAMPLE	0.000	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.080	14:08
BLANK TEST	0.000	14:09

COB  
COB 5/18



**LINEARITY CHECK**

Alaska Department of Public Safety  
 DATA MASTER dmt: 100423

Date: 08/30/2011  
 Time: 07:22:59

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0204	0.0005
0.039	0.0400	0.0000
0.079	0.0800	0.0000
0.099	0.1004	0.0005
0.199	0.1970	0.0000
0.300	0.2936	0.0005

SLOPE = 0.972276  
 R² = 0.999958

*COB*

*COB 6/18*

LINEARITY CHECK: Control Test 1

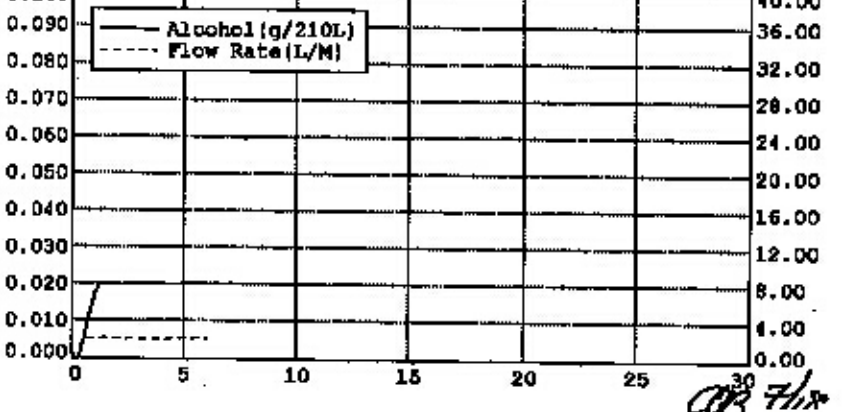
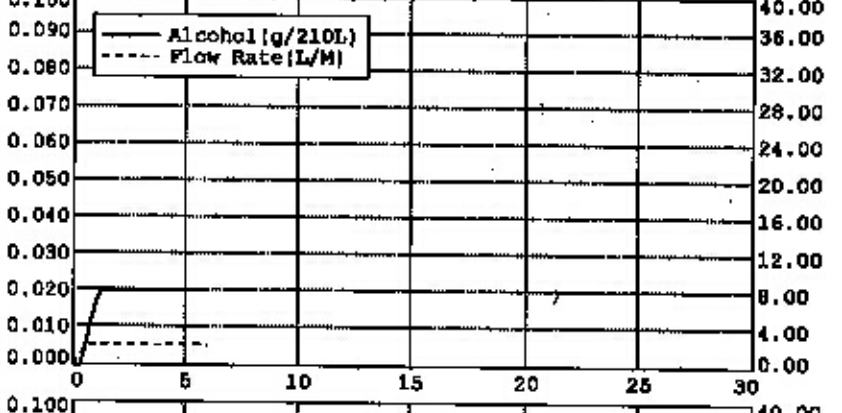
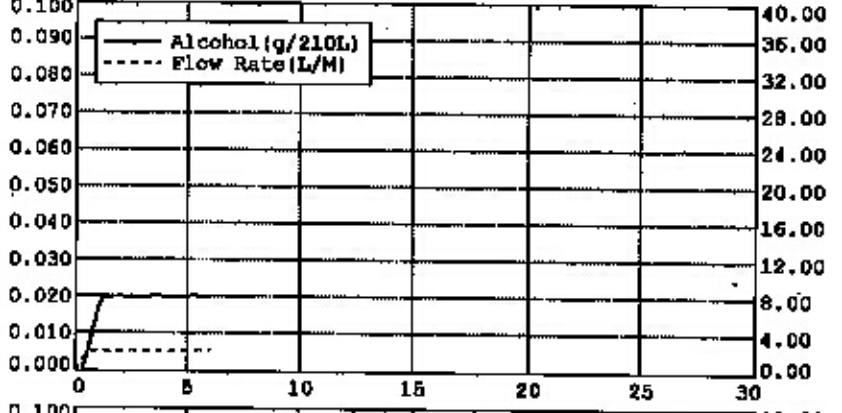
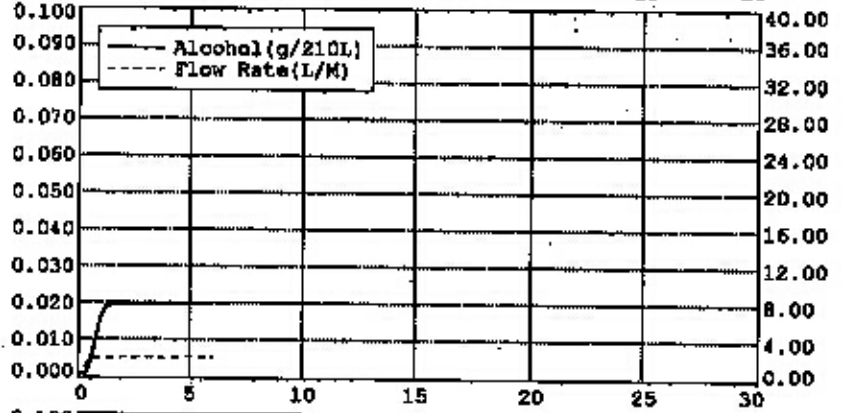
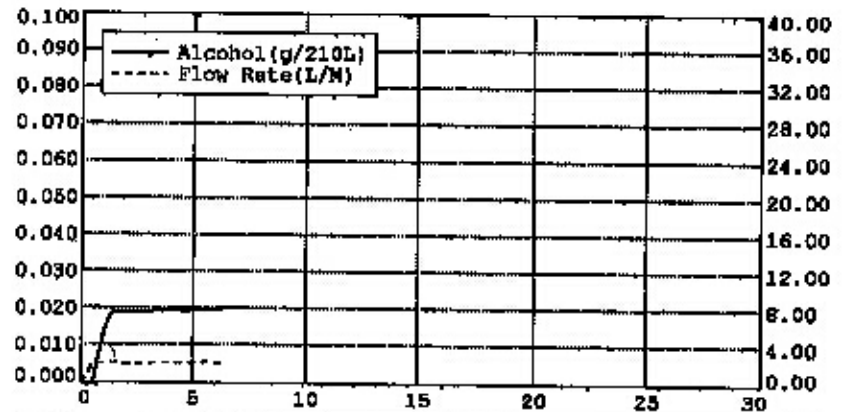
Alaska Department of Public Safety  
DATAMASTER dnt: 100423

Date: 08/30/2011  
Time: 07:23:01

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.020  
TARGET AT 29.92: 0.019  
LOT #: 15210020A1  
EXPIRATION: 07/01/2012

BLANK TEST	0.000	07:24
INTERNAL STANDARD	VERIFIED	07:24
EXTERNAL STANDARD	0.020	07:24
BLANK TEST	0.000	07:25
EXTERNAL STANDARD	0.020	07:25
BLANK TEST	0.000	07:26
EXTERNAL STANDARD	0.021	07:26
BLANK TEST	0.000	07:27
EXTERNAL STANDARD	0.020	07:27
BLANK TEST	0.000	07:28
EXTERNAL STANDARD	0.021	07:29
BLANK TEST	0.000	07:29

Average = 0.0204  
Std Dev = 0.0005





LINEARITY CHECK: Control Test 2

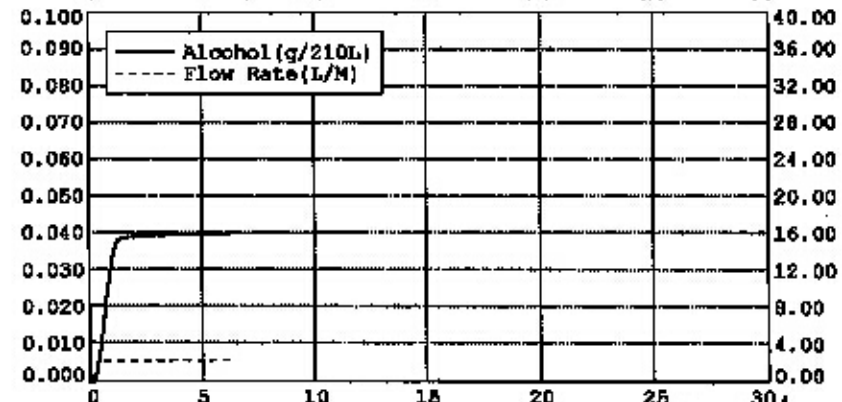
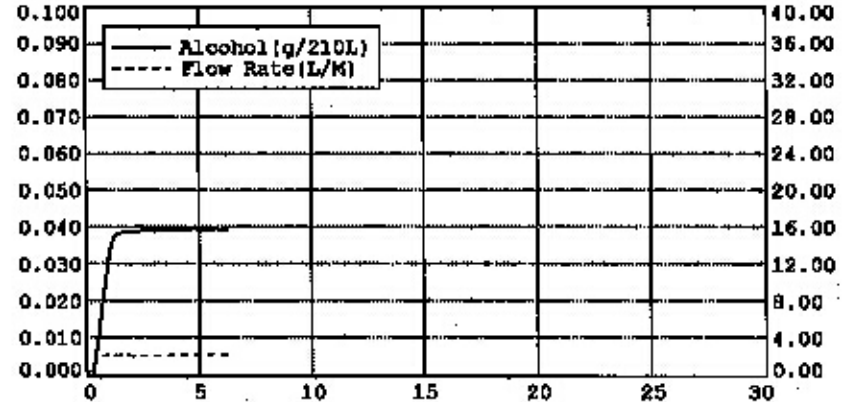
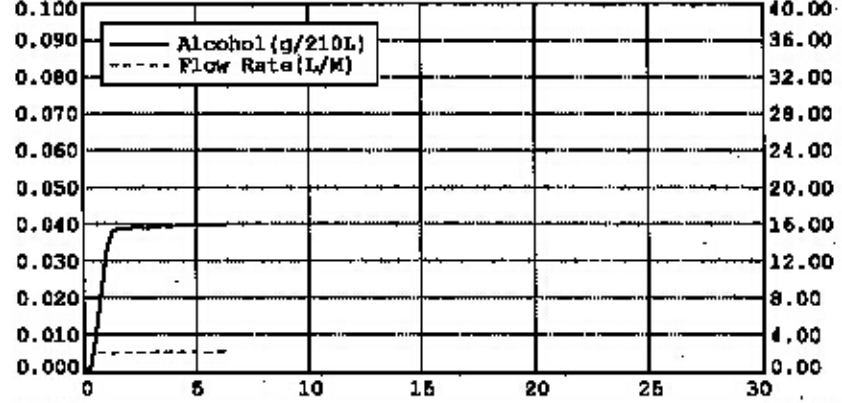
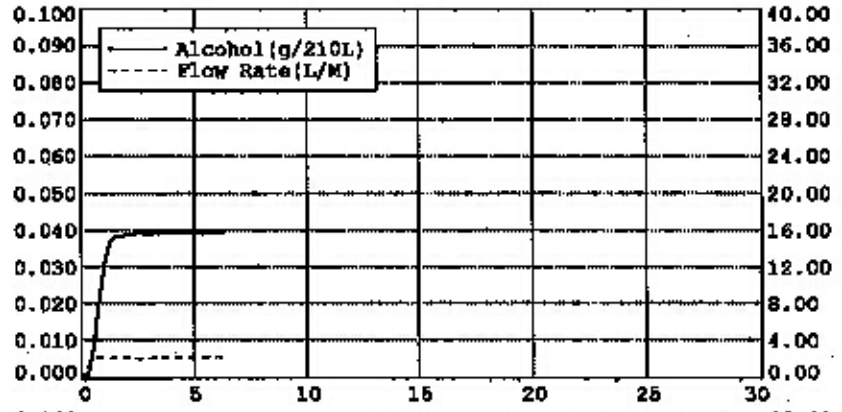
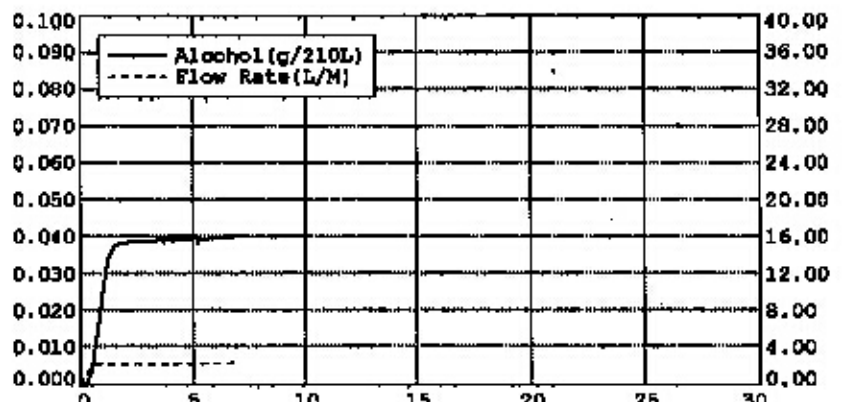
Alaska Department of Public Safety  
DATAMASTER dmt: 100423

Date: 08/30/2011  
Time: 07:31:12

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.040  
TARGET AT 29.92: 0.039  
LOT #: 15210040A2  
EXPIRATION: 07/01/2012

BLANK TEST	0.000	07:33
INTERNAL STANDARD	VERIFIED	07:33
EXTERNAL STANDARD	0.040	07:33
BLANK TEST	0.000	07:34
EXTERNAL STANDARD	0.040	07:34
BLANK TEST	0.000	07:35
EXTERNAL STANDARD	0.040	07:35
BLANK TEST	0.000	07:36
EXTERNAL STANDARD	0.040	07:36
BLANK TEST	0.000	07:37
EXTERNAL STANDARD	0.040	07:37
BLANK TEST	0.000	07:38

Average = 0.0400  
Std Dev = 0.0000



008 8/18



LINEARITY CHECK: Control Test 3

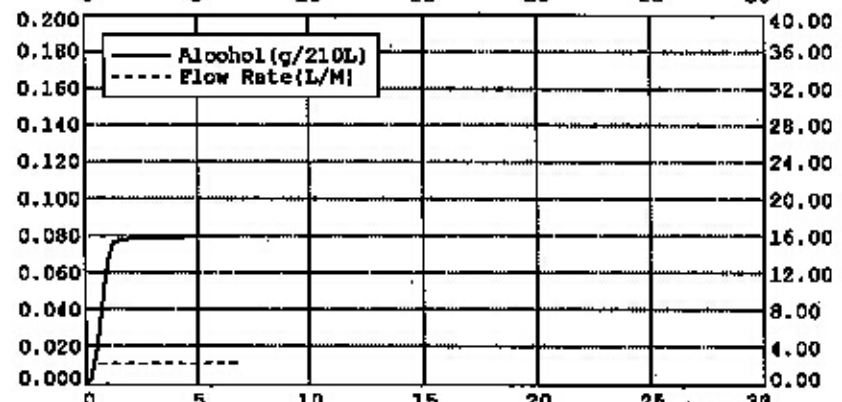
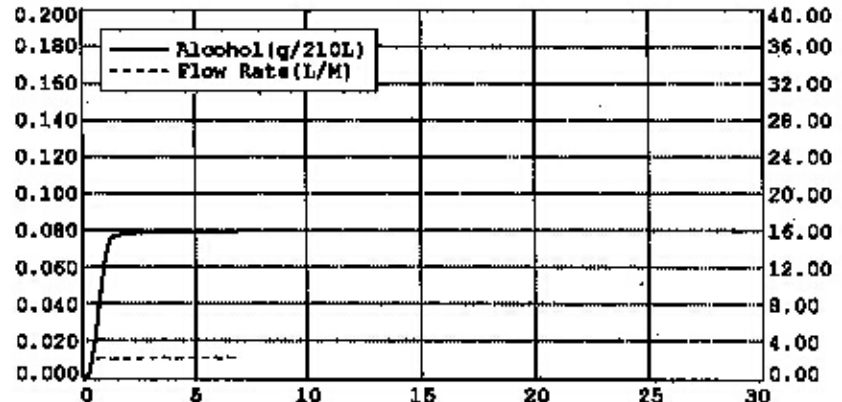
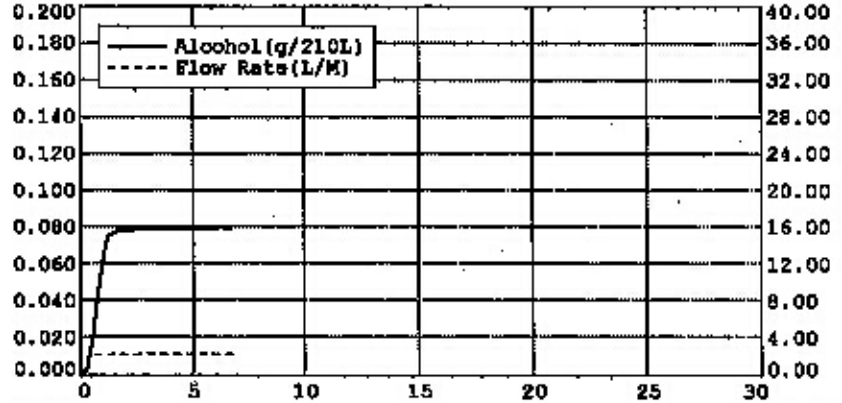
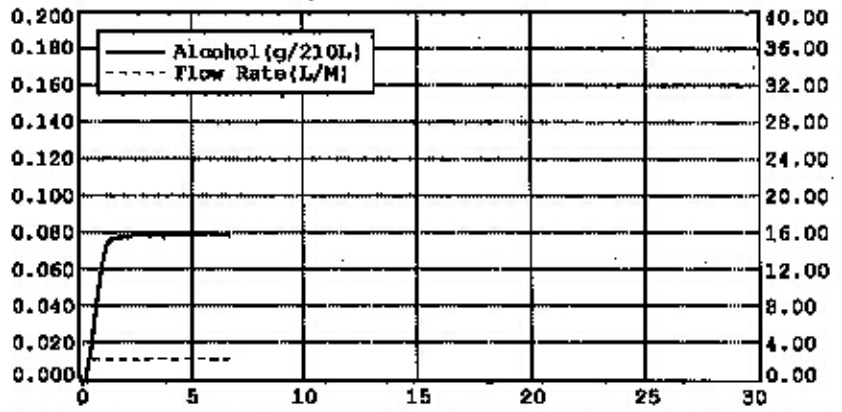
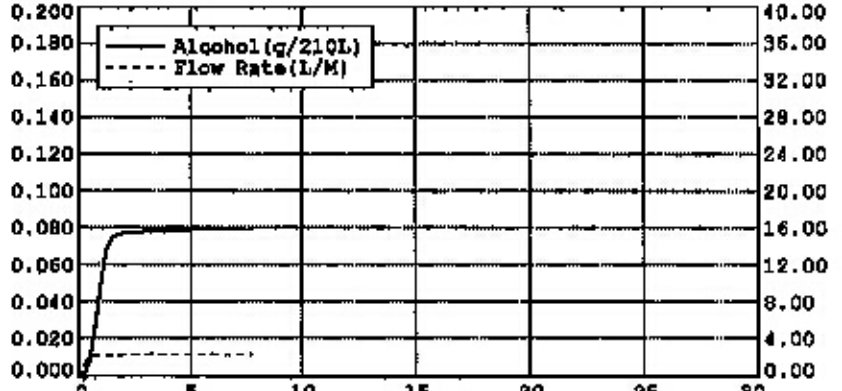
Alaska Department of Public Safety  
DATAMASTER dmt: 100423

Date: 08/30/2011  
Time: 07:39:15

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.92: 0.079  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

BLANK TEST	0.000	07:40
INTERNAL STANDARD	VERIFIED	07:40
EXTERNAL STANDARD	0.080	07:40
BLANK TEST	0.000	07:41
EXTERNAL STANDARD	0.080	07:41
BLANK TEST	0.000	07:42
EXTERNAL STANDARD	0.080	07:42
BLANK TEST	0.000	07:43
EXTERNAL STANDARD	0.080	07:44
BLANK TEST	0.000	07:44
EXTERNAL STANDARD	0.080	07:45
BLANK TEST	0.000	07:46

Average = 0.0800  
Std Dev = 0.0000



2008 9/18

LINEARITY CHECK: Control Test 4

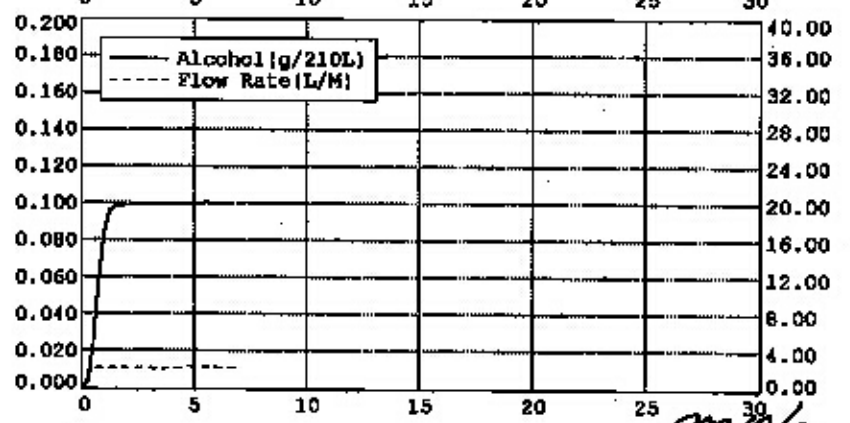
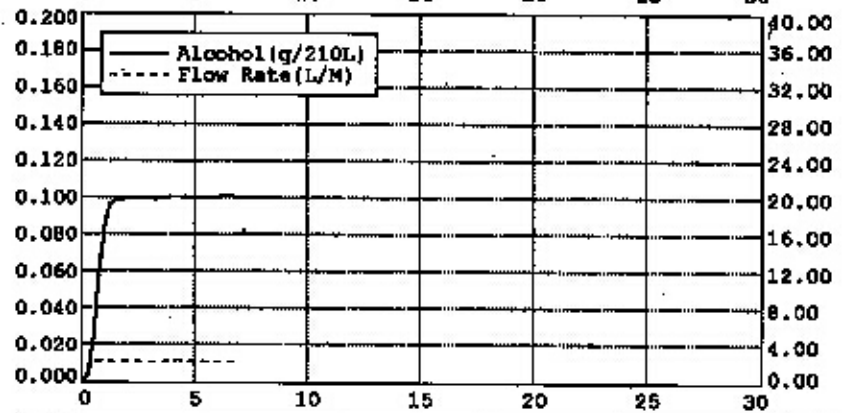
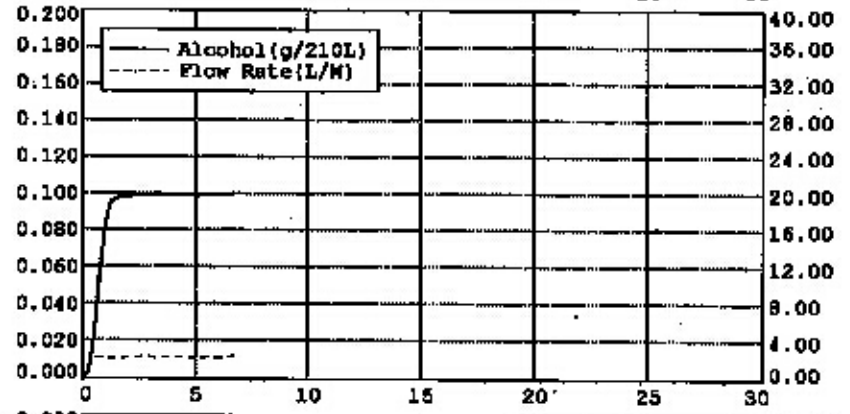
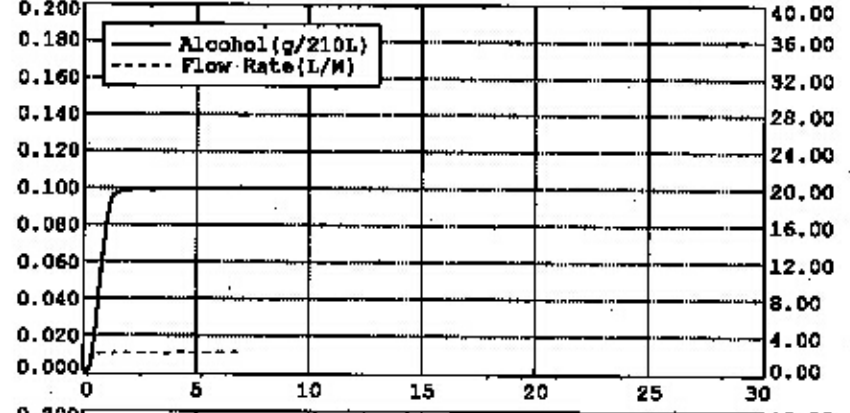
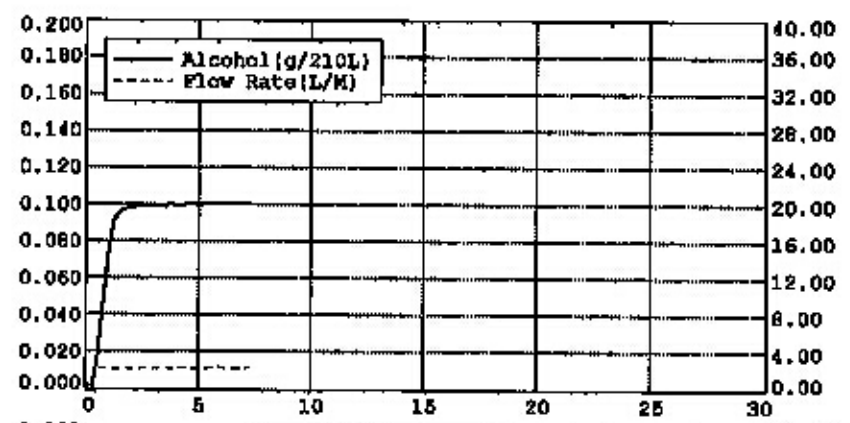
Alaska Department of Public Safety  
DATAMASTER dmt: 100423

Date: 06/30/2011  
Time: 07:46:35

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.100  
TARGET AT 29.91: 0.099  
LOT #: 07611100A3  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:47
INTERNAL STANDARD	VERIFIED	07:47
EXTERNAL STANDARD	0.101	07:48
BLANK TEST	0.000	07:49
EXTERNAL STANDARD	0.100	07:49
BLANK TEST	0.000	07:50
EXTERNAL STANDARD	0.100	07:50
BLANK TEST	0.000	07:51
EXTERNAL STANDARD	0.101	07:51
BLANK TEST	0.000	07:52
EXTERNAL STANDARD	0.100	07:52
BLANK TEST	0.000	07:53

Average = 0.1004  
Std Dev = 0.0005



COB 7/1/11

LINEARITY CHECK: Control Test 5

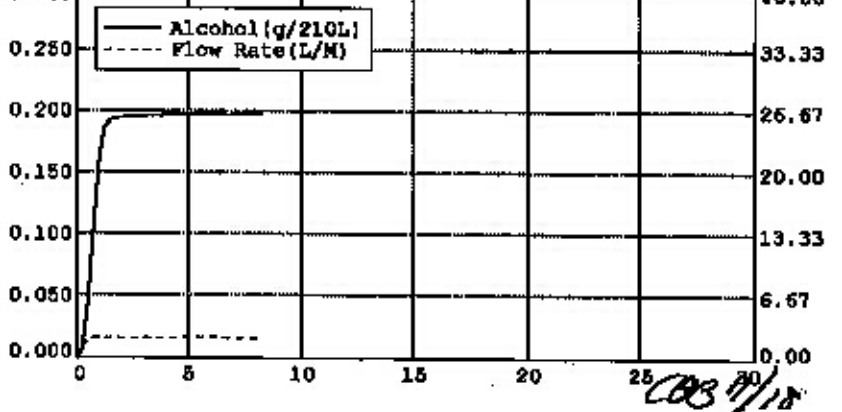
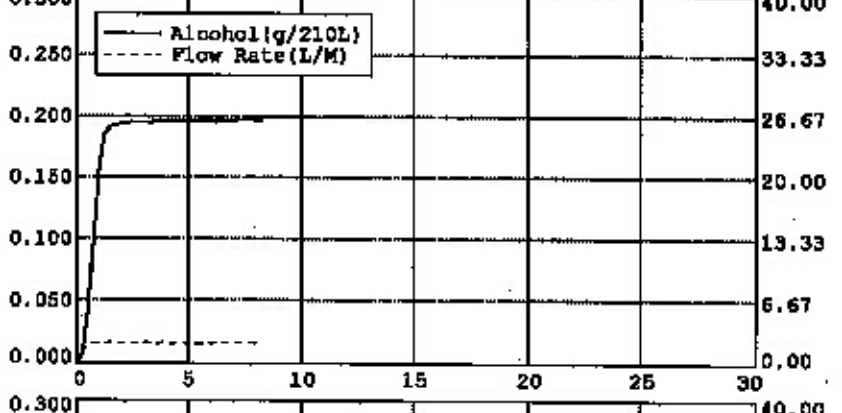
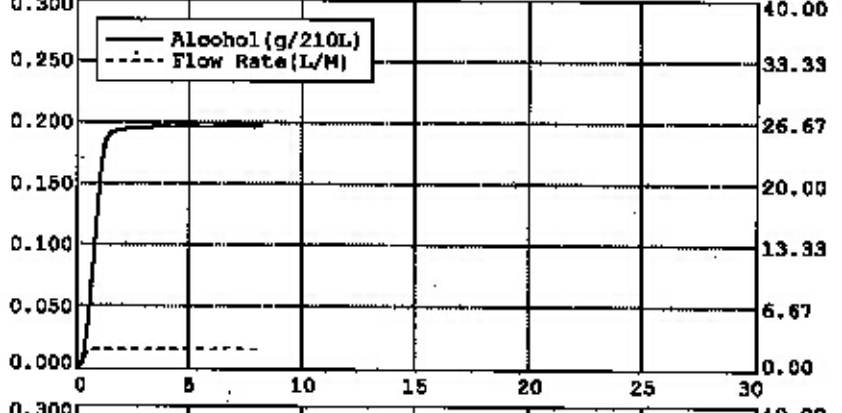
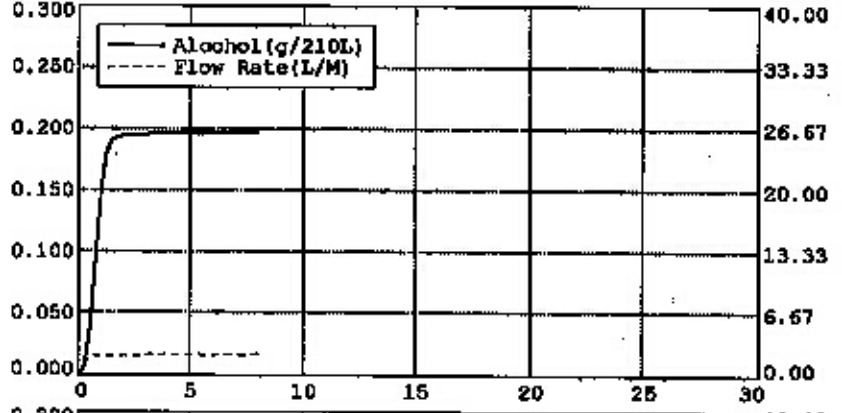
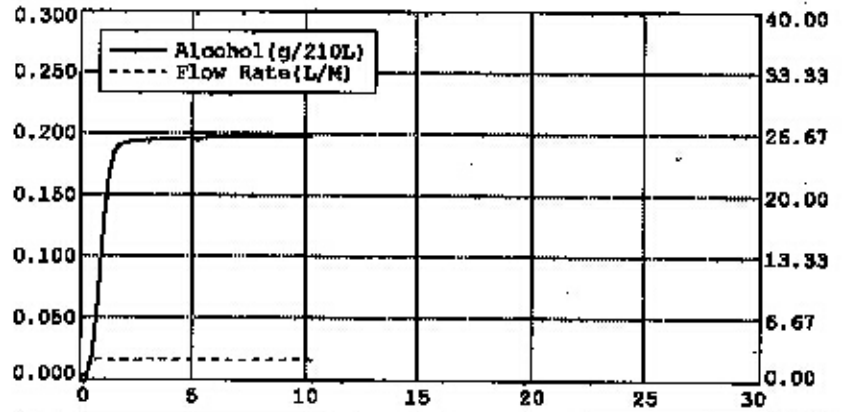
Alaska Department of Public Safety  
DATAMASTER dmt: 100423

Date: 08/30/2011  
Time: 07:54:02

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.200  
TARGET AT 29.91, 0.199  
LOT #: 07411200A2  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:55
INTERNAL STANDARD	VERIFIED	07:55
EXTERNAL STANDARD	0.197	07:55
BLANK TEST	0.000	07:56
EXTERNAL STANDARD	0.197	07:56
BLANK TEST	0.000	07:57
EXTERNAL STANDARD	0.197	07:57
BLANK TEST	0.000	07:58
EXTERNAL STANDARD	0.197	07:58
BLANK TEST	0.000	07:59
EXTERNAL STANDARD	0.197	08:00
BLANK TEST	0.000	08:00

Average = 0.1970  
Std Dev = 0.0000



COB 7/18

## LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
DATAMASTER dmt: 100423

Date: 08/30/2011

Time: 08:01:36

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300

TARGET AT 29.92: 0.300

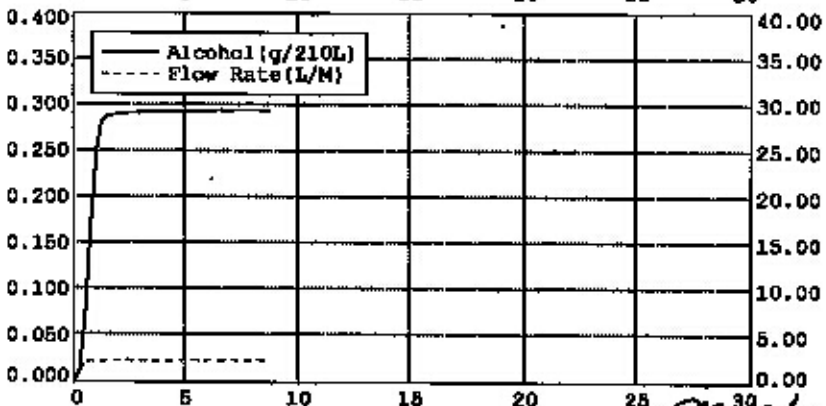
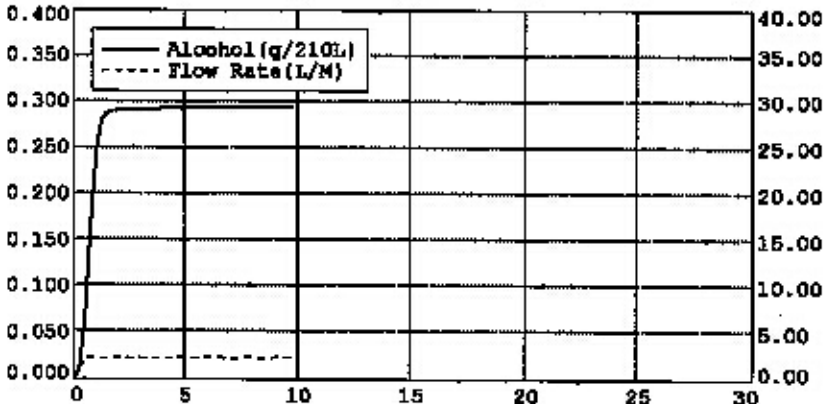
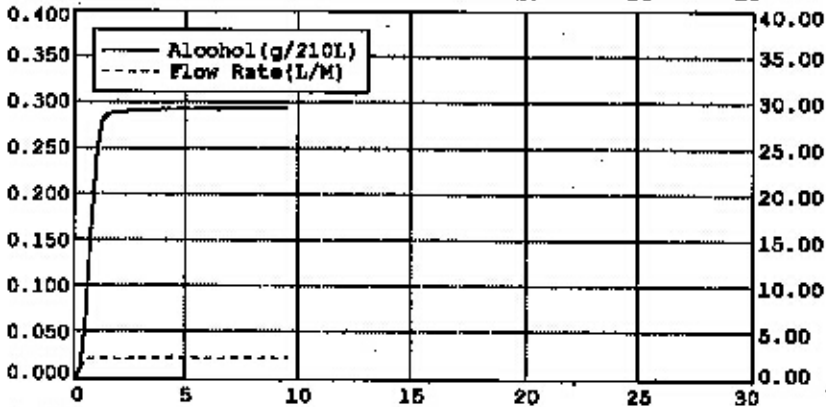
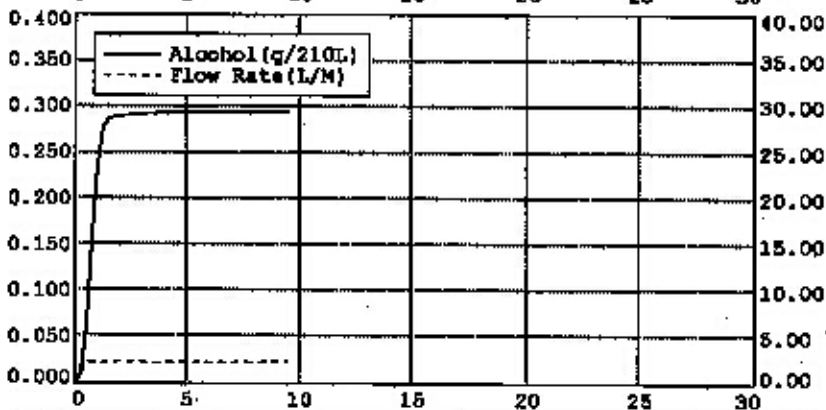
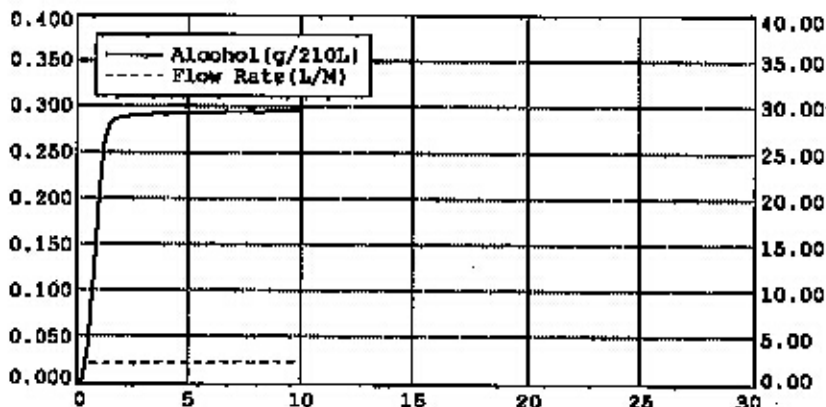
LOT #: 07611300A1

EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:02
INTERNAL STANDARD	VERIFIED	08:02
EXTERNAL STANDARD	0.294	08:03
BLANK TEST	0.000	08:03
EXTERNAL STANDARD	0.294	08:04
BLANK TEST	0.000	08:05
EXTERNAL STANDARD	0.293	08:05
BLANK TEST	0.000	08:06
EXTERNAL STANDARD	0.293	08:06
BLANK TEST	0.000	08:07
EXTERNAL STANDARD	0.294	08:07
BLANK TEST	0.000	08:08

Average = 0.2936

Std Dev = 0.0005



08/30/11



Alcohol (g/210L) Flow Rate (L/M)	0	10	20	30	40	50	60	70	80	90	100	110	120
40.00													
36.00													
32.00													
28.00													
24.00													
20.00													
16.00													
12.00													
8.00													
4.00													
0.00													

**SUBJECT TEST**

Alaska Department of Public Safety  
 DATASHEET dnt: 100423

Date: 08/30/2011  
 Time: 08:14:20

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INCOMPLETE

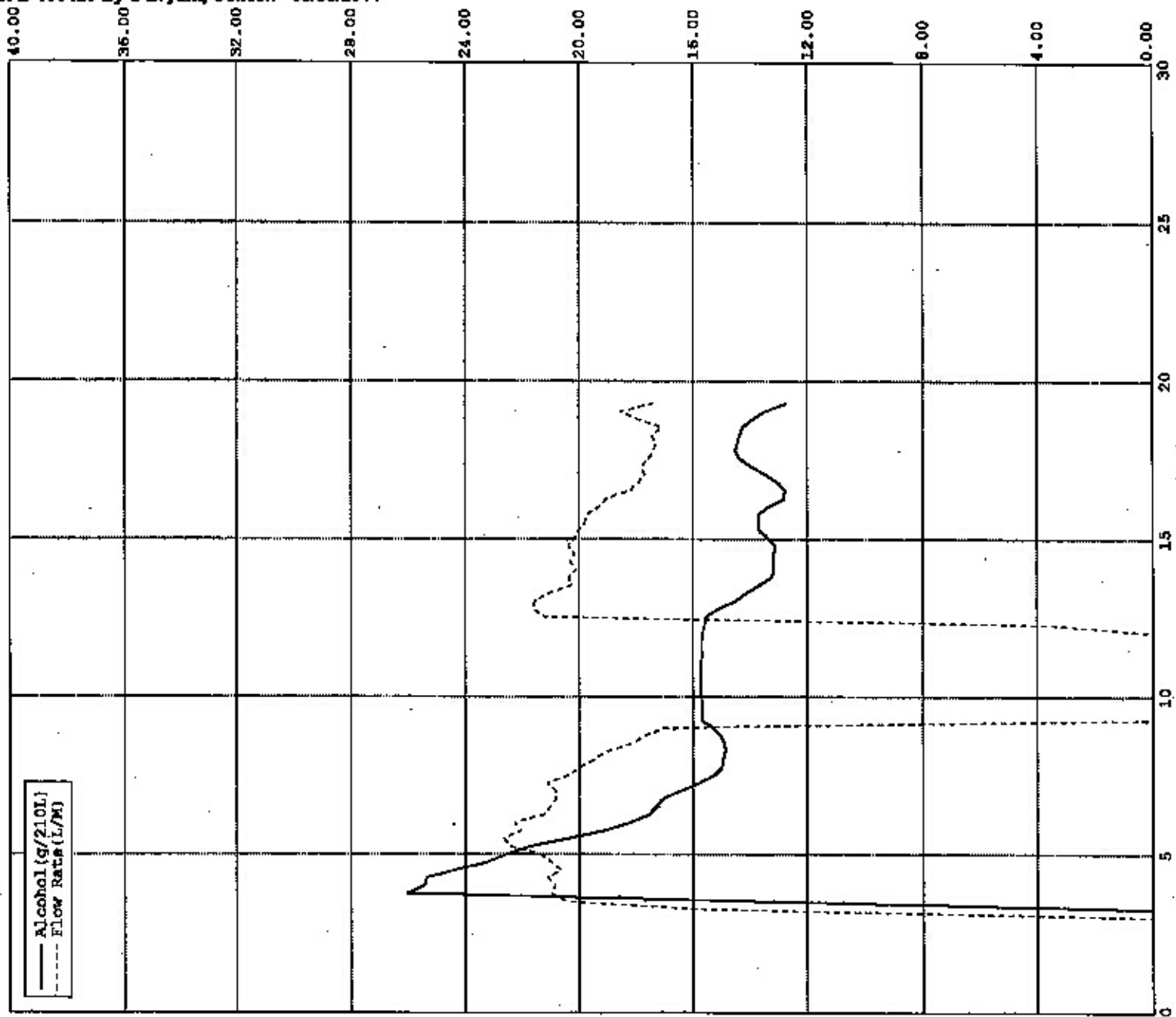
OPERATOR NAME:  
 COLLEEN S O'BRYANT  
 OPERATOR'S #: 6237

DEPT/AGENCY:  
 AAAA  
 CASE/REPORT: 11-1234  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.92: 0.079  
 ICF #: 0251108033  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 08:16  
 0.000 08:17  
 BLANK TEST VERIFIED 08:17  
 INTERNAL STANDARD 0.081 08:17  
 EXTERNAL STANDARD 0.000 08:18  
 BLANK TEST INCOMPLETE 08:20  
 SUBJECT SAMPLE

08/30/11



**SUBJECT TEST**

Alaska Department of Public Safety  
 DWTA84STER dnt: 100423

Date: 08/30/2011  
 Time: 08:21:43

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** INVALID

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

**DEPT/AGENCY:**  
 AAA1

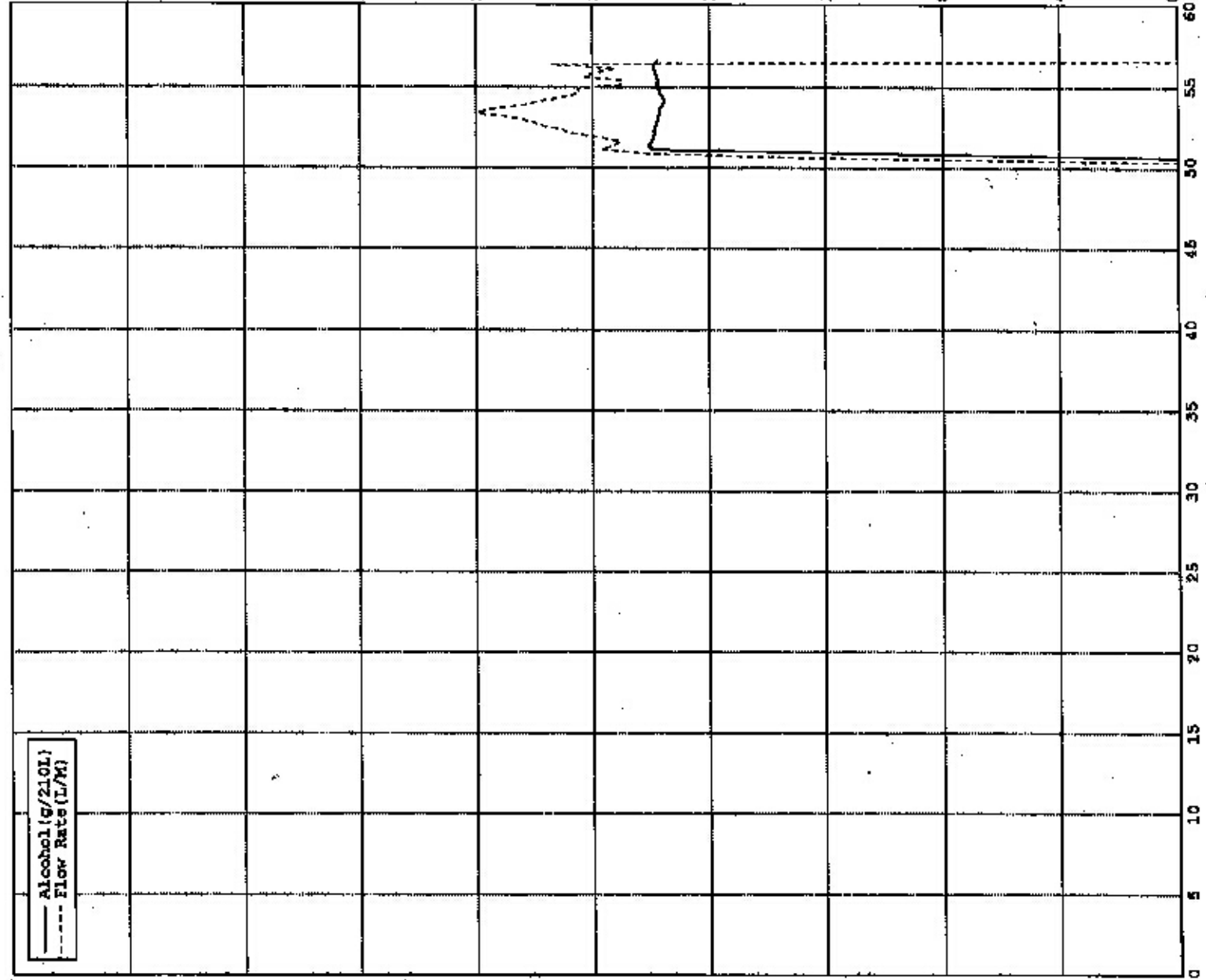
**CASE/REPORT:** 11-1234  
**TEST TYPE:** TEST

**EXTERNAL STANDARD INFORMATION**  
 NOMINAL: 0.080  
 TARGET AT 29.92: 0.080  
 LOT #: 0251108023  
 EXPIRATION: 02/01/2013

**DIAGNOSTIC CHECK** PASSED 08:23  
**BLANK TEST** 0.000 08:23  
**INTERNAL STANDARD** VERIFIED 08:23  
**EXTERNAL STANDARD** 0.081 08:23  
**BLANK TEST** 0.000 08:24  
**SUBJECT SAMPLE** Invalid 08:24

COB  
 COB 12/18





**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAMASTER chg: 100423

Date: 08/30/2011  
 Time: 08:28:27

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INTF-ACETONE

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

DEPT/AGENCY:  
 AAA1

CASE/REPORT: 11-1234  
 TEST TYPE: TEST

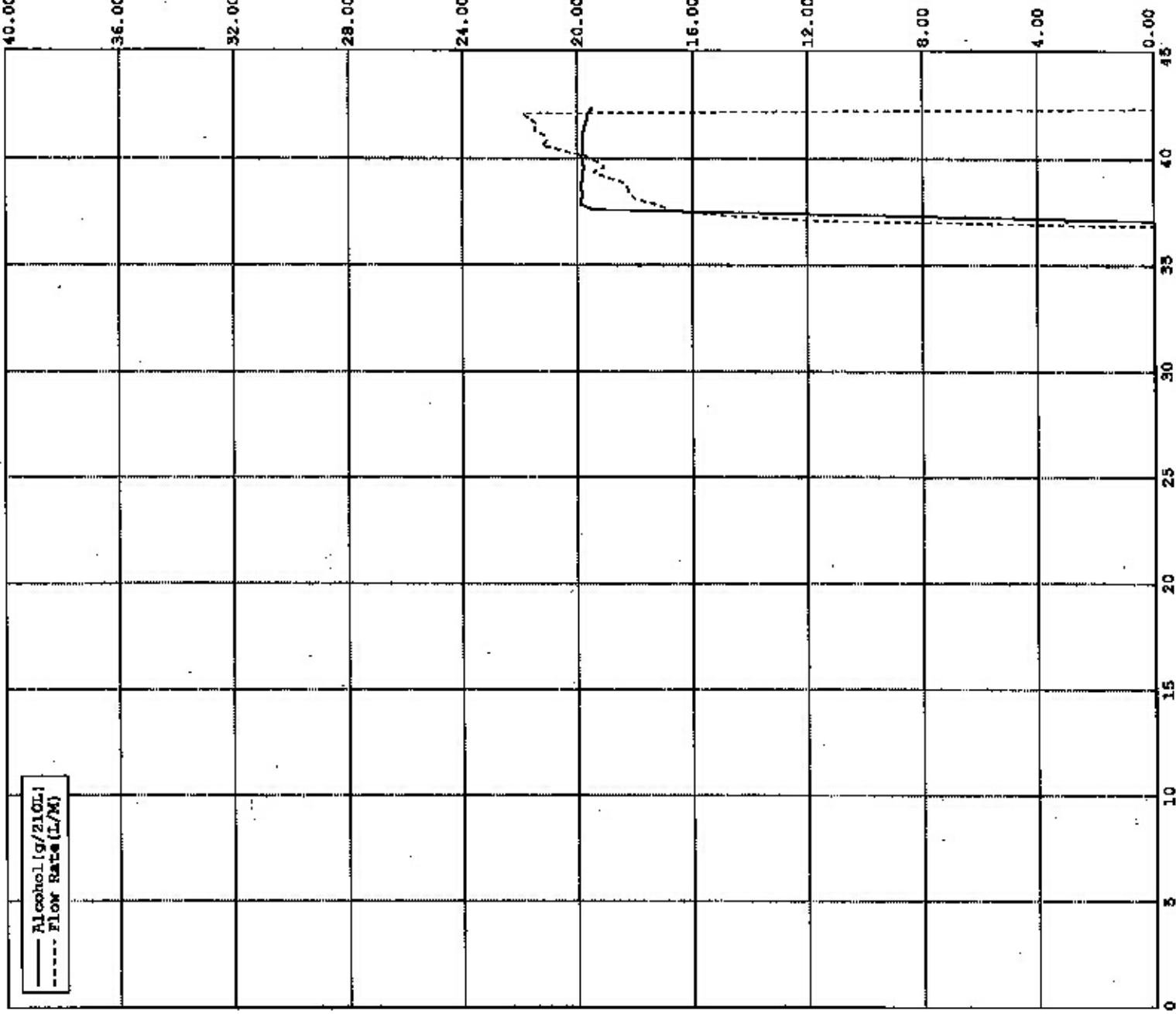
EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.92: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 08:29  
 BLANK TEST 0.000 08:29  
 INTERNAL STANDARD VERIFIED 08:29  
 EXTERNAL STANDARD 0.080 08:30  
 BLANK TEST 0.000 08:31  
 SUBJECT SAMPLE INTERFERENCE 08:32

*CAB*

*CAB 15/18*

Alcohol (g/210L)  
Flow Rate (L/M)



**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAMASTER QMC: 100423

Date: 08/30/2011  
 Time: 08:35:59

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INTF-ISOFROR

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

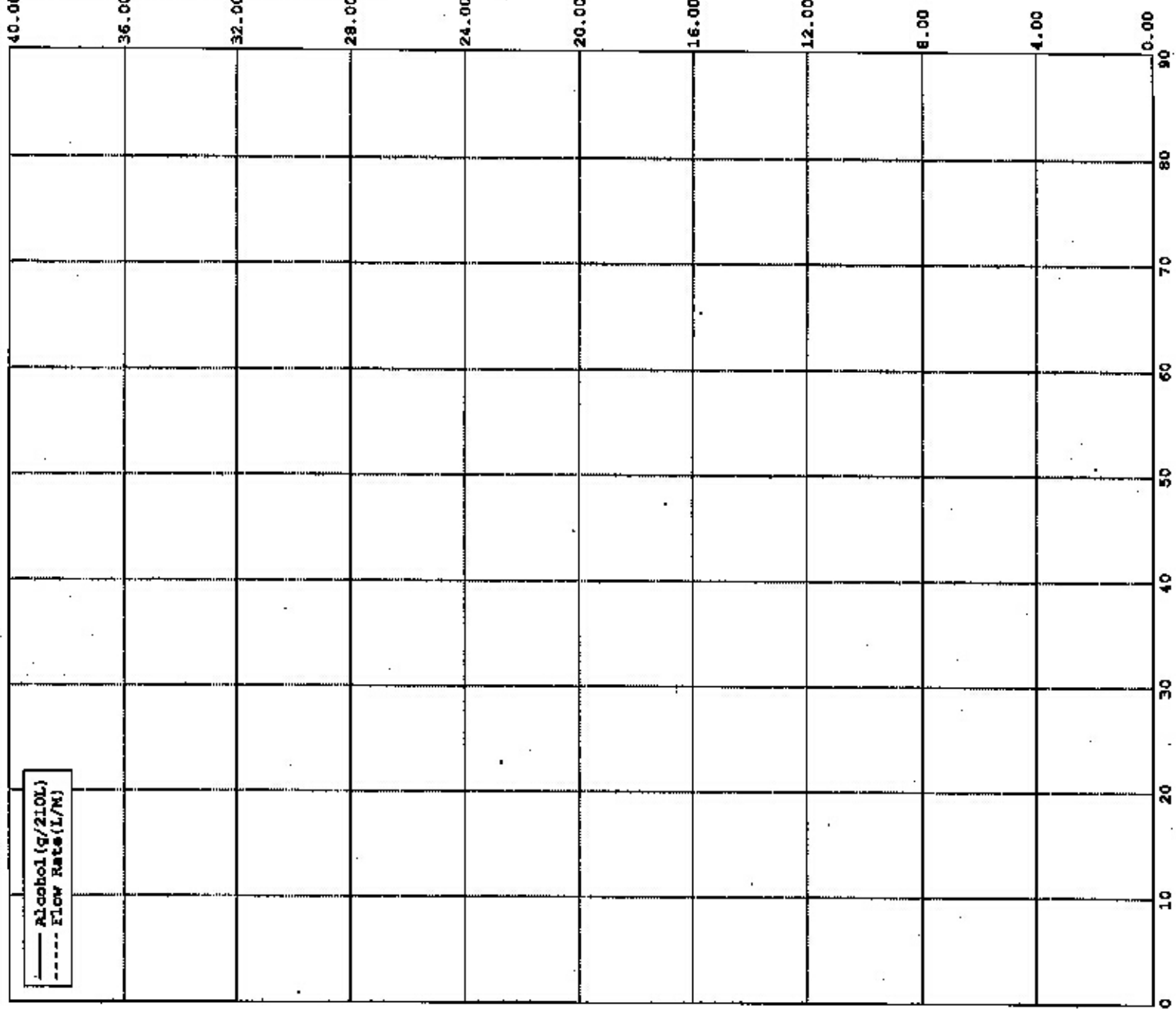
DEPT/AGENCY:  
 AAAA  
 CASE/REPORT: 11-1234  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET RF 29.92: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 08:37  
 BLANK TEST 0.000 08:37  
 INTERNAL STANDARD VERIFIED 08:37  
 EXTERNAL STANDARD 0.080 08:37  
 BLANK TEST 0.000 08:38  
 SUBJECT SAMPLE INTERFERENCE 08:39

*COB*

*COB 16/18*



**SUBJECT TEST**

-----  
 Alaska Department of Public Safety  
 DATAMASTER cmt: 100423  
 -----  
 Date: 08/30/2013  
 Time: 08:44:19

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** RFI

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

**DEPT/AGENCY:**  
 AAAA

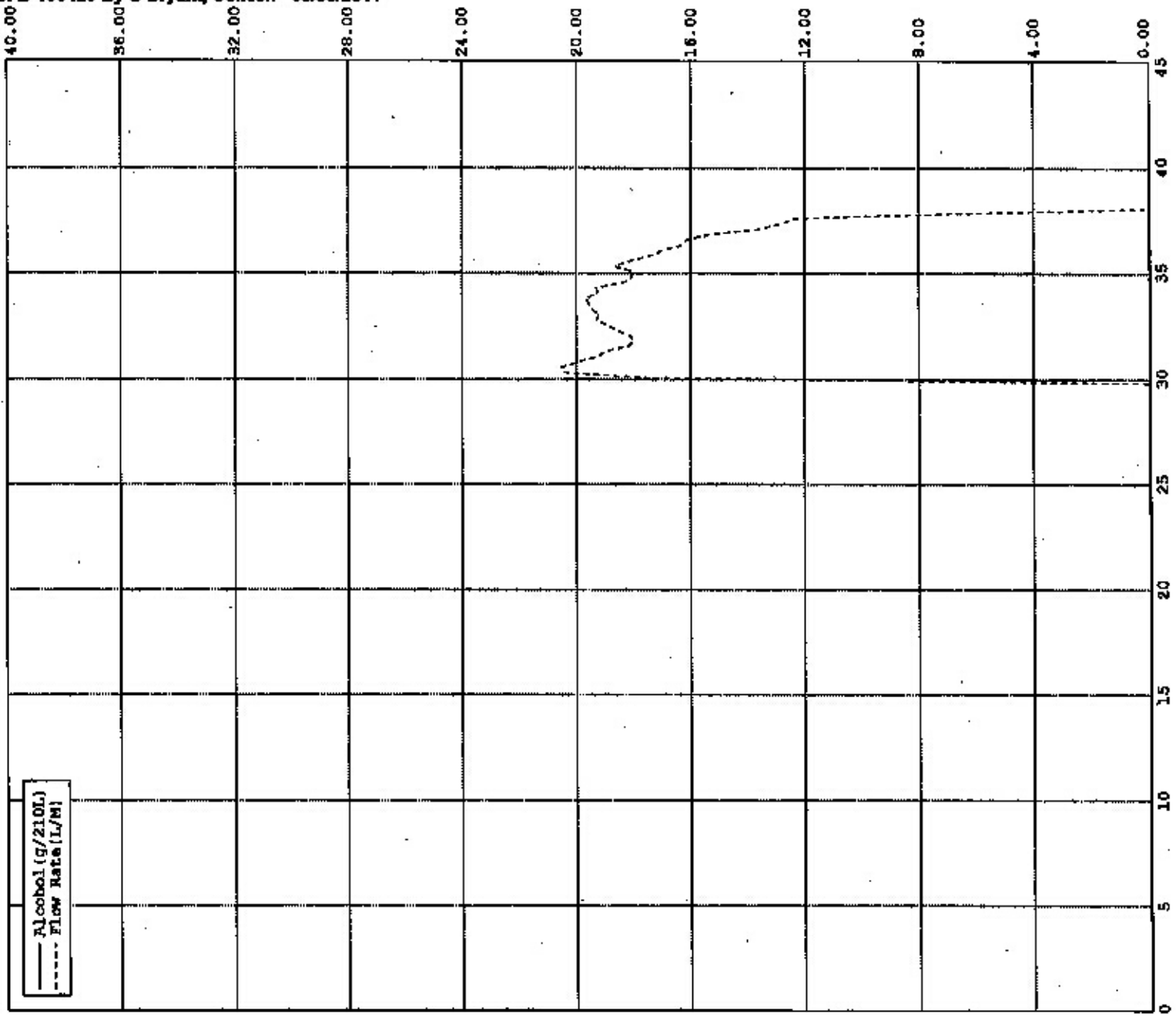
**CASE/REPORT:** 11-1234  
**TEST TYPE:** TEST

**EXTERNAL STANDARD INFORMATION**  
**NOMINAL:** 0.080  
**TARGET AT 29.91:** 0.079  
**LOT #:** 02511080A3  
**EXPIRATION:** 02/01/2013

**DIAGNOSTIC CHECK**      -PASSED 08:45  
**BLANK TEST**              0.000 08:46  
**INTERNAL STANDARD**      VERIFIED 08:46  
**EXTERNAL STANDARD**      0.080 08:46  
**BLANK TEST**              0.000 08:47

**RFI Detected**

*08/31/13*



**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAMASTER chrt: 100423

Date: 08/30/2011  
 Time: 08:53:16

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** NONDRINKING

**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 29.91: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	08:55
BLANK TEST	0.000	08:55
INTERNAL STANDARD	VERIFIED	08:55
EXTERNAL STANDARD	0.080	08:55
BLANK TEST	0.000	08:56
SUBJECT SAMPLE	0.000	08:57
BLANK TEST	0.000	08:58
EXTERNAL STANDARD	0.080	08:58
BLANK TEST	0.000	08:59

COB  
 COB 18/18

Final page for report

\

\\ANCSCLSAN01\JTRAX\CASEDOCS\B-100423\B-100423\_ECF-20140

2/18/2014