

	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 # 100354

1. Diagnostic Test (attached)

Analyst C.O'Bryant

2. Voltage Checks

Date 3/11/11a. 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 1500 mL ☒

5. Dry Gas Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 02811080A1 Exp 2/1/13ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 2/1/13iii. 0.080g/210L Mnf ILMO Lot 33609080A1 Exp 2/1/12iv. 0.100g/210L Mnf ILMO Lot 0561100A2 Exp 3/1/13v. 0.200g/210L Mnf ILMO Lot 17610200A1 Exp 7/1/12vi. 0.300g/210L Mnf ILMO Lot 02811300A4 Exp 2/1/12

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 DR602d. 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: 100354

Date: 03/11/2011
Time: 10:45:26

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 41.0°C	PASSED

PUMP INFO

Flow Rate = 5.070 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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Technician Screen

DATAMASTER dmt: 100354

Date: 03/11/2011

Time: 10:52 AM

Temperatures (°C)

Sample Cell: 49.1°C

Breath Tube: 41.7°C

Current Barometer 29.7 in

Volume (Ltr) 1.56

Settings

Lamp: 1.92 V

Bias: 79 V

Cooler: 1.67 V

Chopper: 530 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.532 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100354

Date: 03/02/2011
Time: 13:16:54

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 9380
EXPIRATION: 12/17/2012 *cos s/u*
2011

Ca	=	0.1000	
CAL	=	0.978286	0.800 <= CAL < 1.200
b1	=	0.0000	0.0000 <= b1 < 0.0040
b2	=	0.0055	0.0010 <= b2 < 0.0100
b3	=	0.0000	0.0000 <= b3 < 0.0040
Xq	=	0.0927	0.0500 <= Xq < 0.2000
a21	=	1.176932	1.050 <= a21 < 1.300
a31	=	0.434916	0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100354

Date: 03/11/2011
 Time: 10:53:03

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

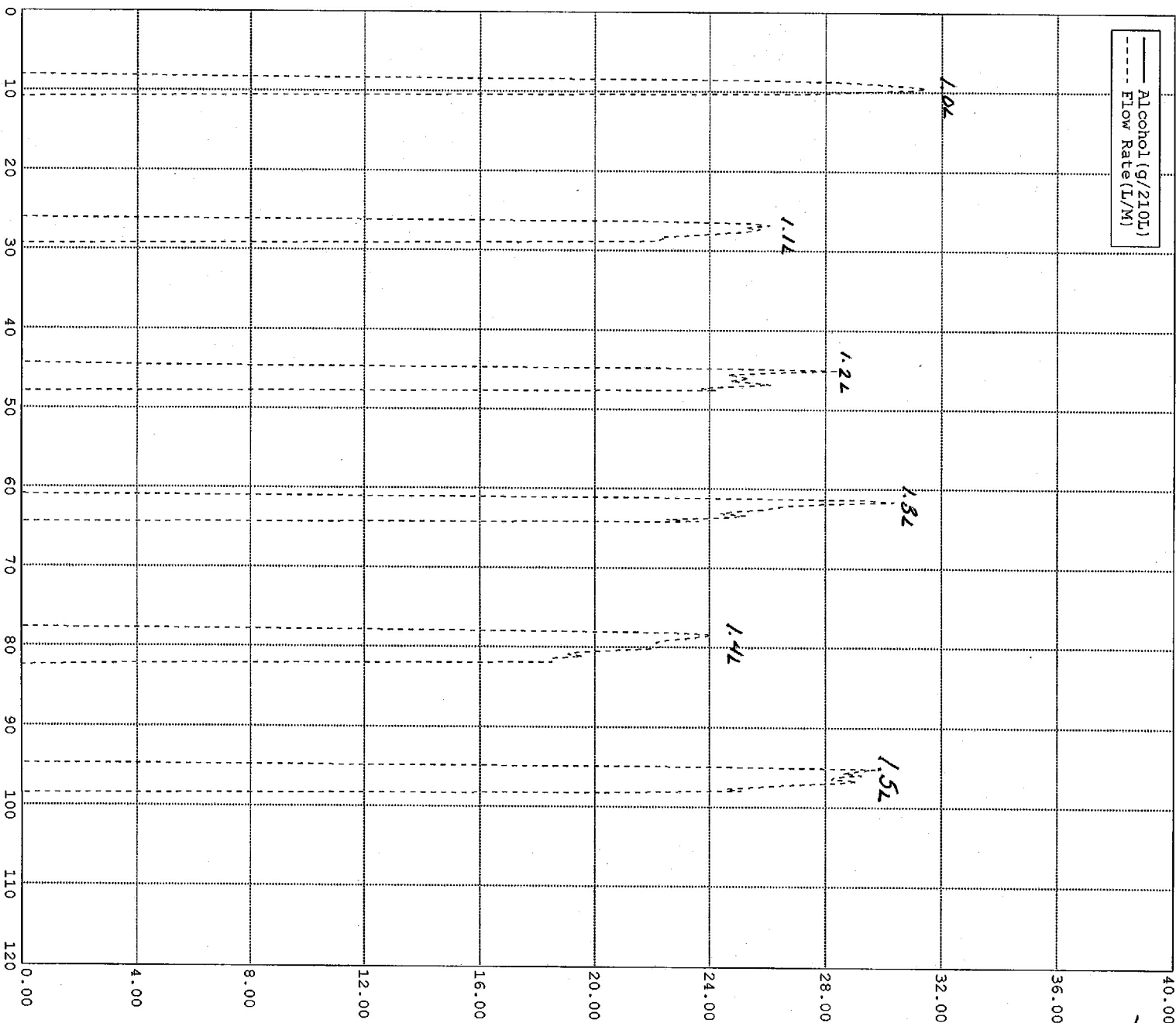
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 111-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.74: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	10:54
BLANK TEST	0.000	10:54
INTERNAL STANDARD	VERIFIED	10:54
EXTERNAL STANDARD	0.081	10:54
BLANK TEST	0.000	10:55
SUBJECT SAMPLE	0.000	10:57
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.079	10:58
BLANK TEST	0.000	10:59

CB



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dnt: 100354

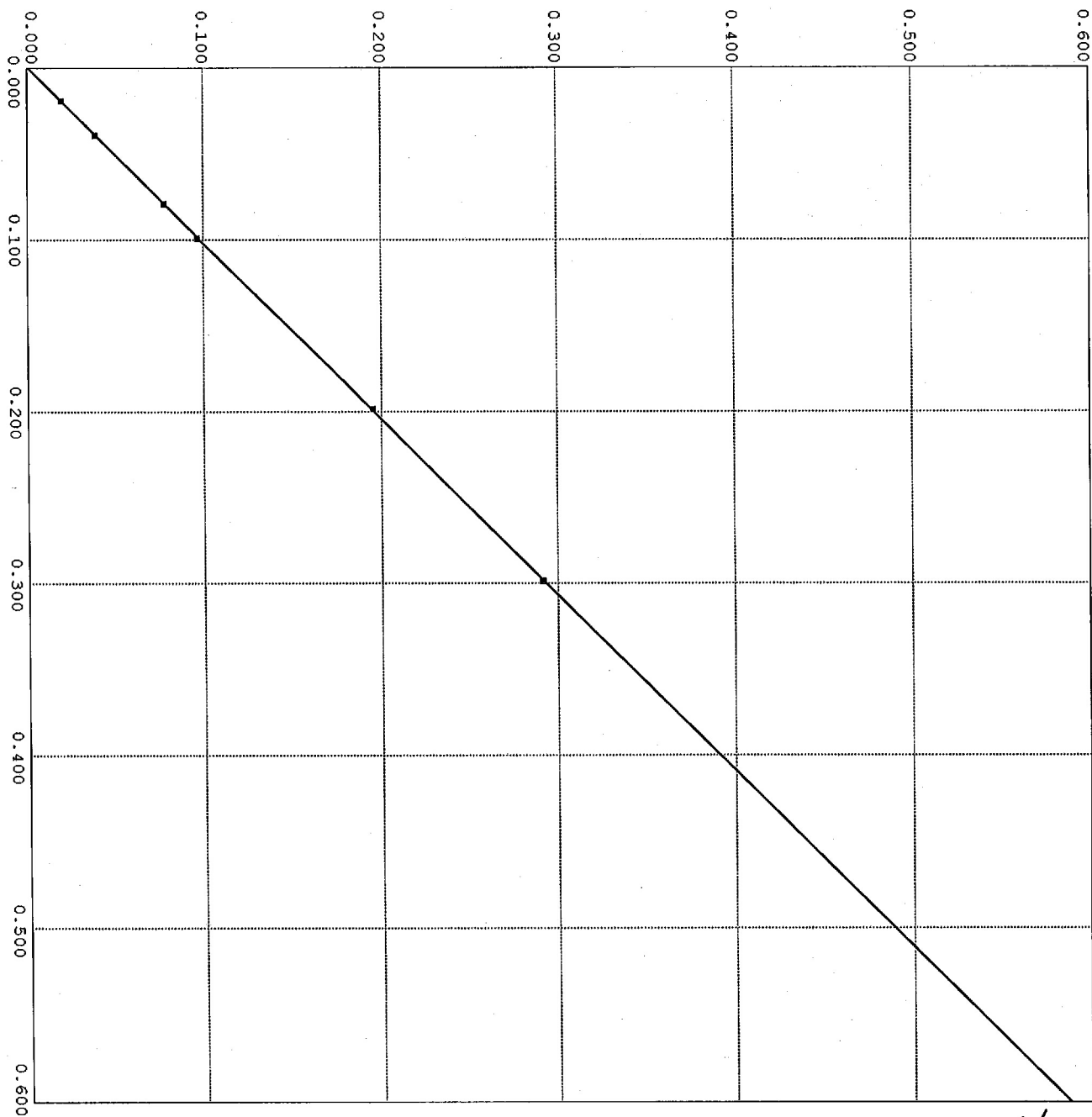
Date: 03/11/2011

Time: 11:04:50

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.039	0.0390	0.0000
0.079	0.0780	0.0000
0.099	0.0974	0.0005
0.198	0.1960	0.0016
0.298	0.2922	0.0013

SLOPE = 0.978880
 R^2 = 0.999980



CB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100354

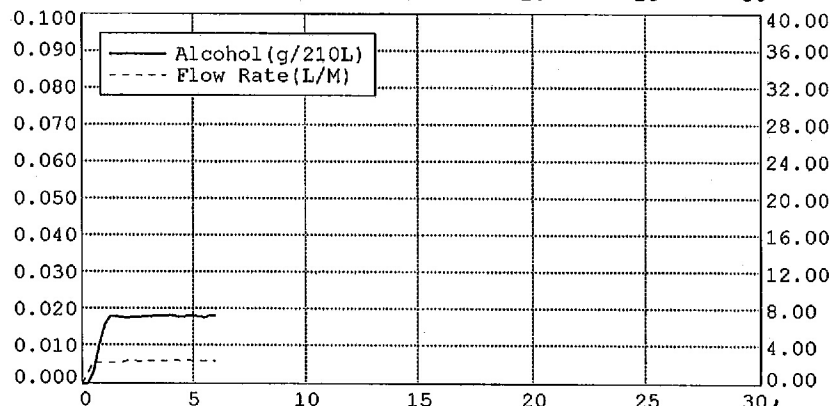
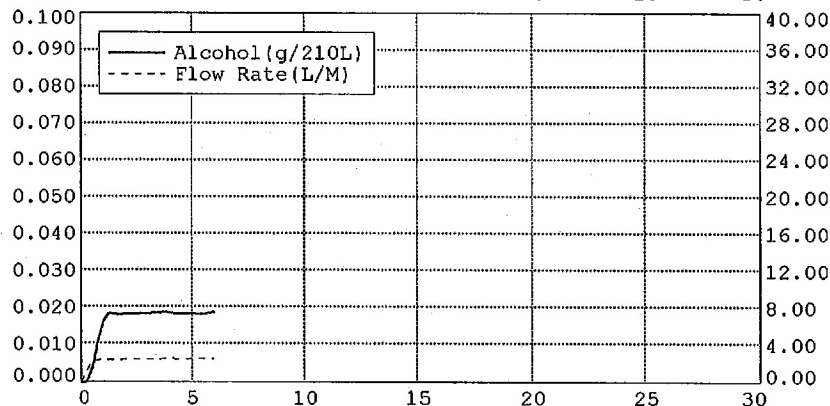
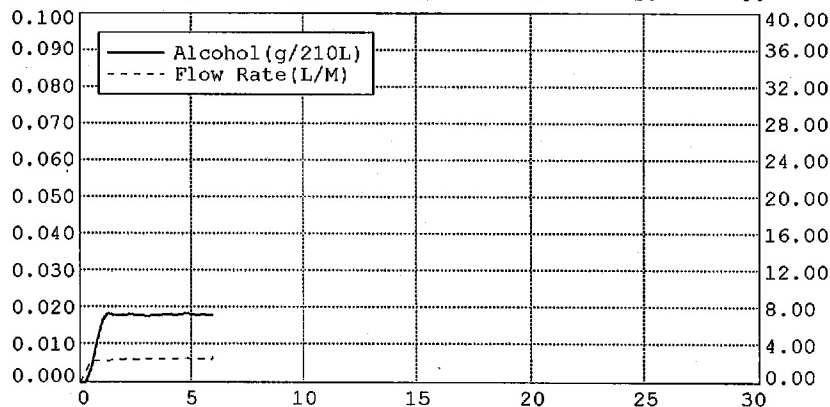
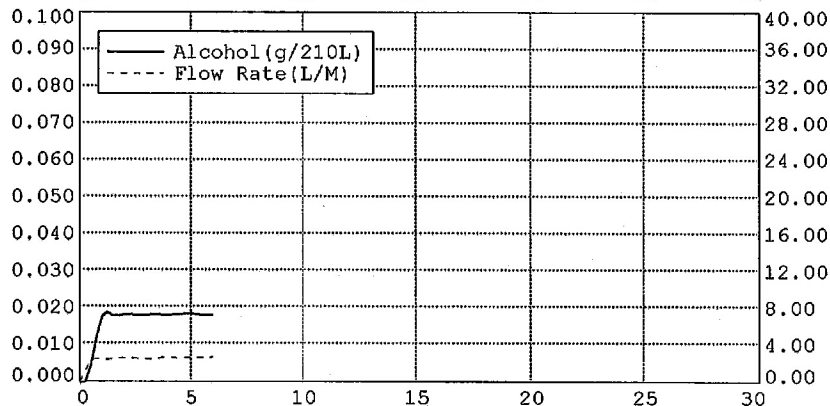
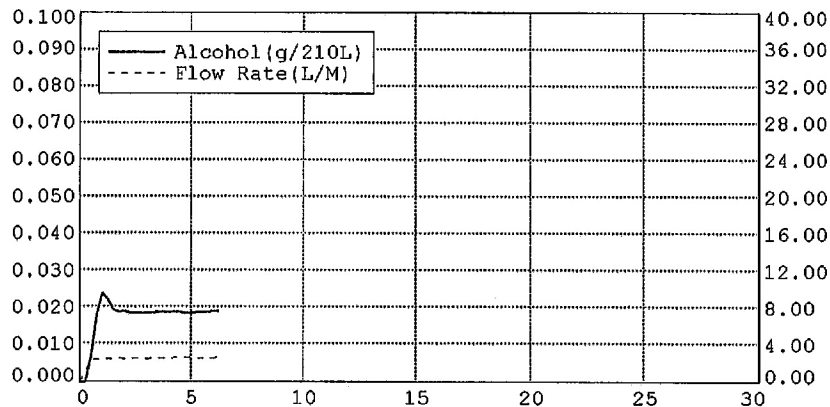
Date: 03/11/2011
Time: 11:04:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.75; 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:06
INTERNAL STANDARD	VERIFIED	11:06
EXTERNAL STANDARD	0.020	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.020	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.020	11:09
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.020	11:10
BLANK TEST	0.000	11:10
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: 100354

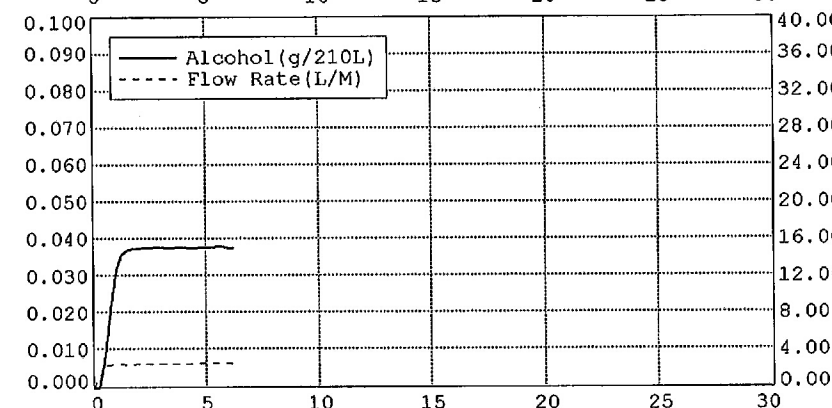
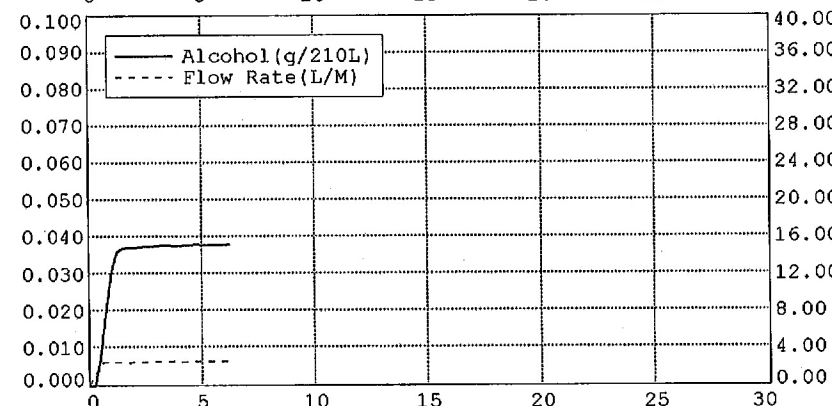
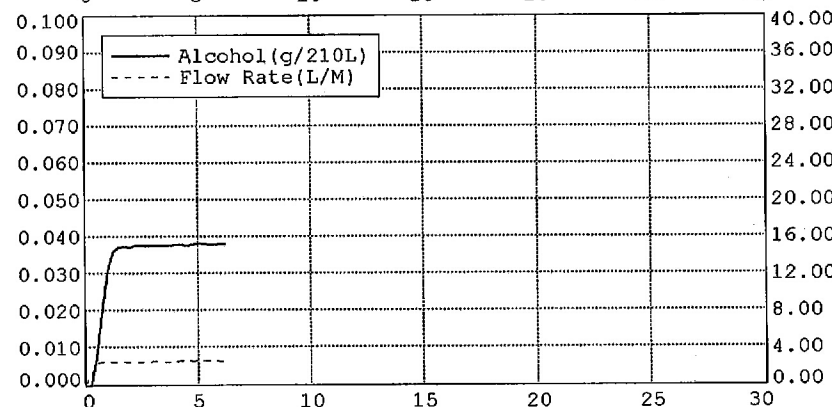
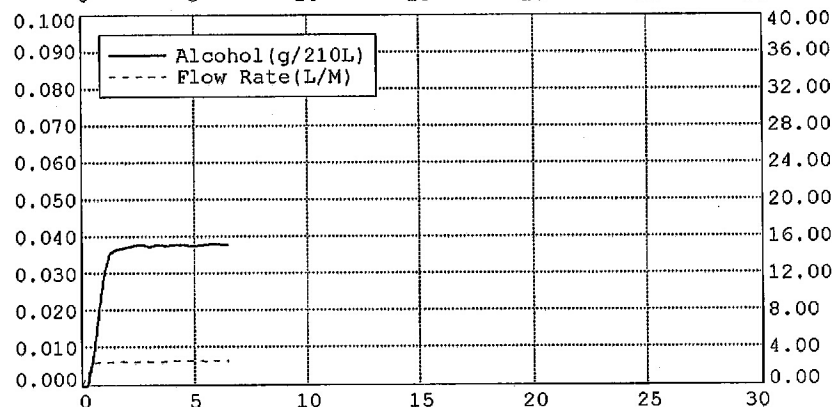
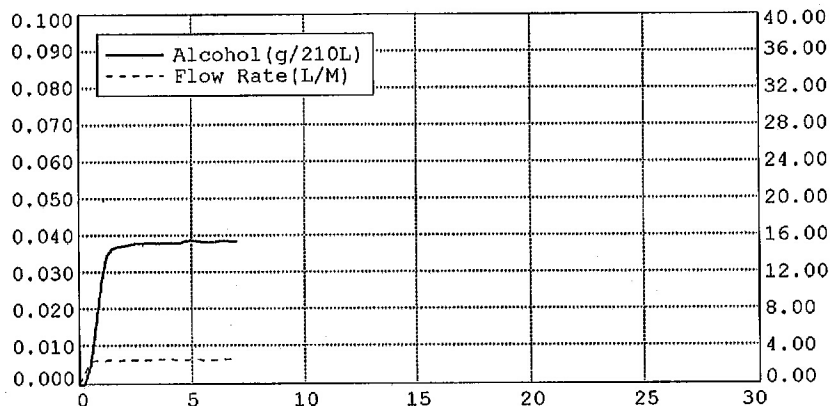
Date: 03/11/2011
Time: 11:43:54

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:44
INTERNAL STANDARD	VERIFIED	11:45
EXTERNAL STANDARD	0.039	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.039	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.039	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.039	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.039	11:49
BLANK TEST	0.000	11:50

Average = 0.0390
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100354

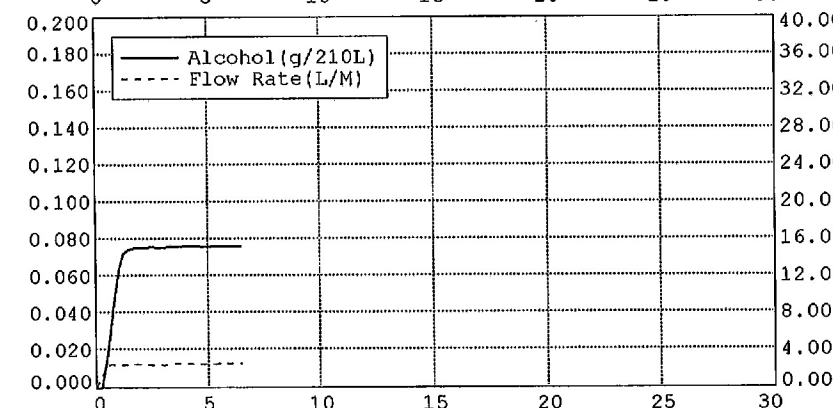
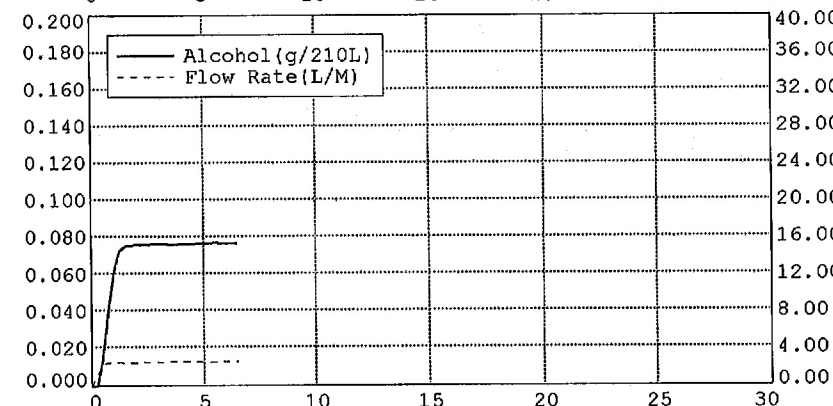
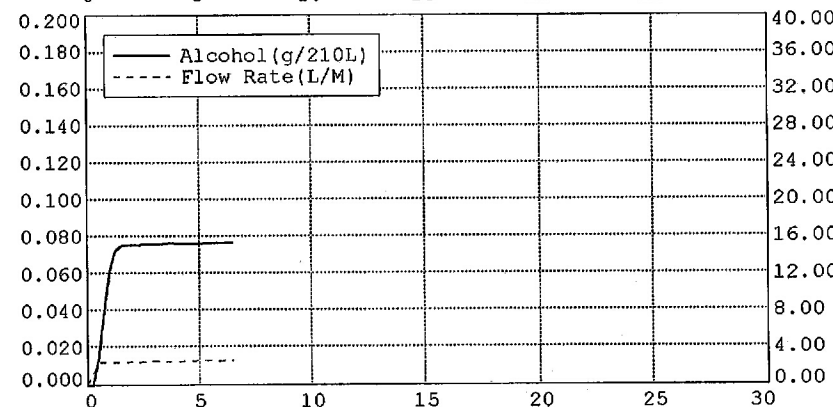
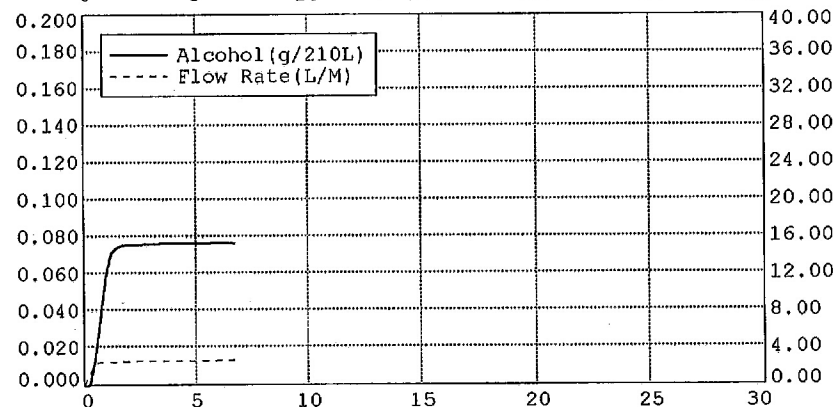
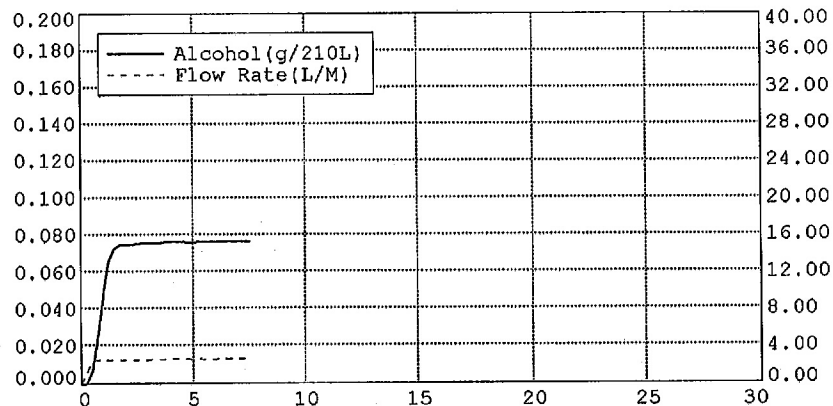
Date: 03/11/2011
Time: 11:52:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.75: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	11:53
INTERNAL STANDARD	VERIFIED	11:54
EXTERNAL STANDARD	0.078	11:54
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.078	11:55
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.078	11:56
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.078	11:57
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.078	11:58
BLANK TEST	0.000	11:59

Average = 0.0780
Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100354

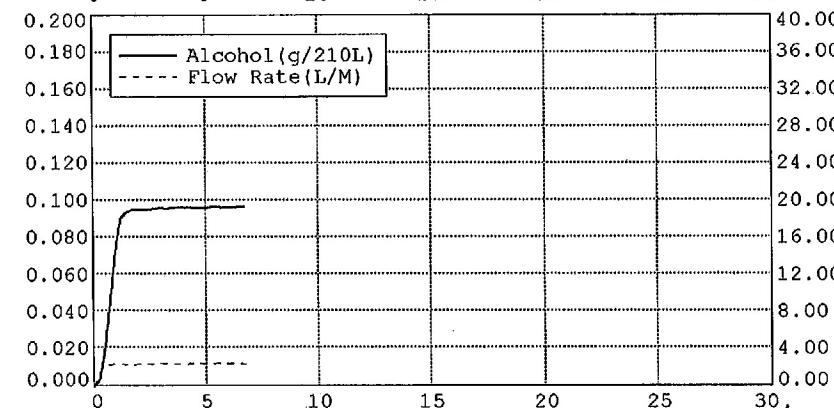
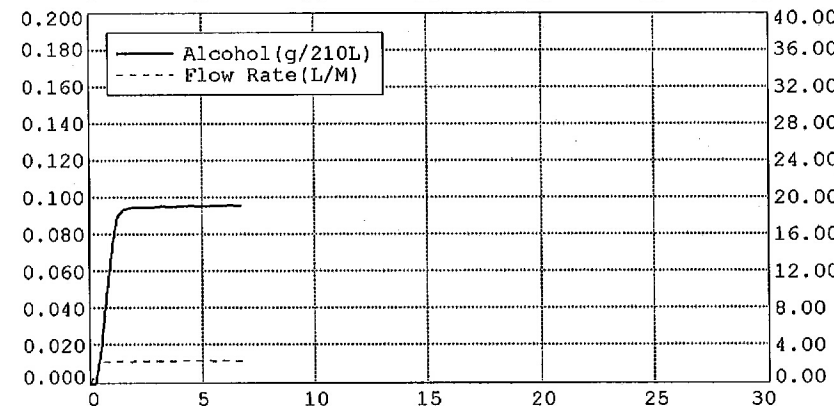
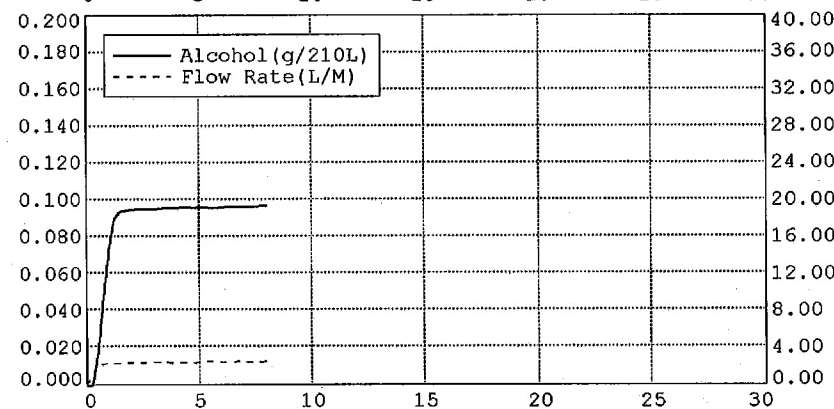
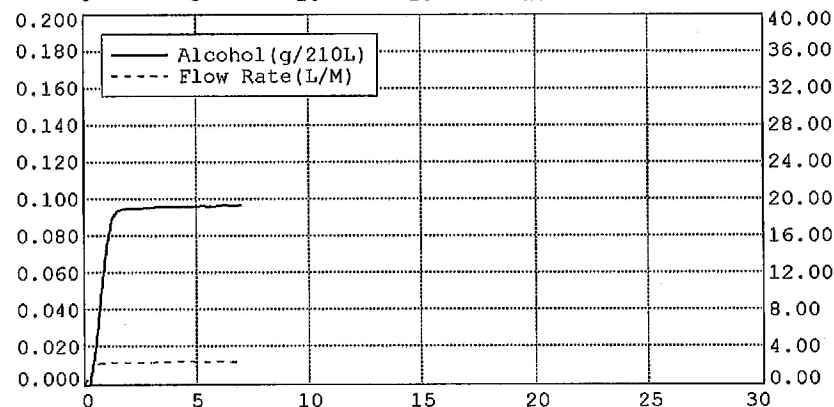
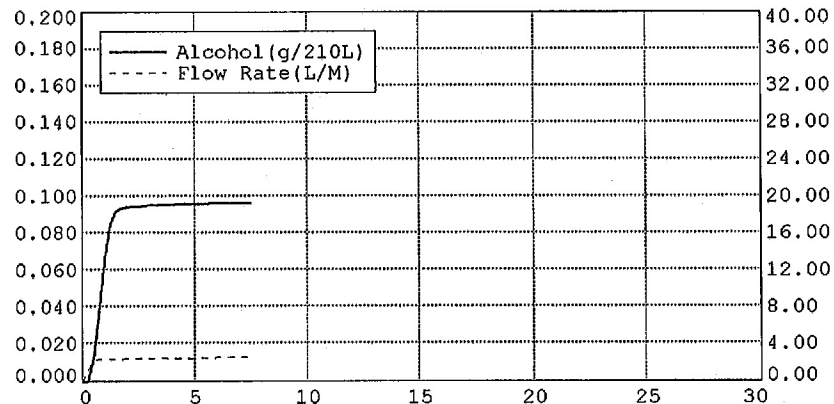
Date: 03/11/2011
Time: 12:00:47

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.74: 0.099
LOT #: 0561100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:01
INTERNAL STANDARD	VERIFIED	12:02
EXTERNAL STANDARD	0.098	12:02
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.098	12:03
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.097	12:04
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.097	12:05
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.097	12:06
BLANK TEST	0.000	12:07

Average = 0.0974
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100354

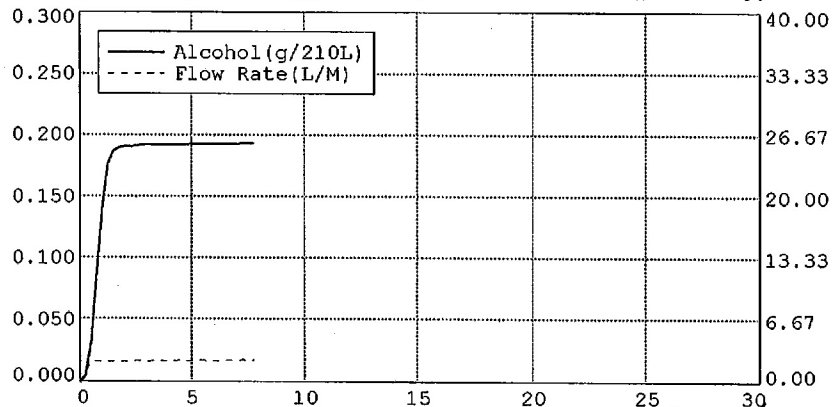
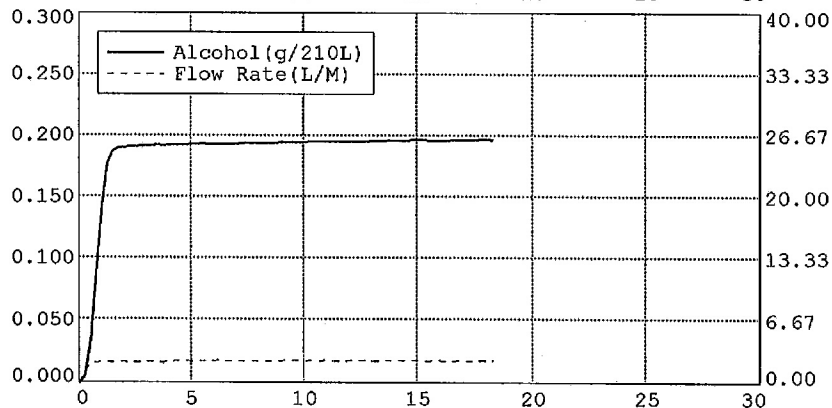
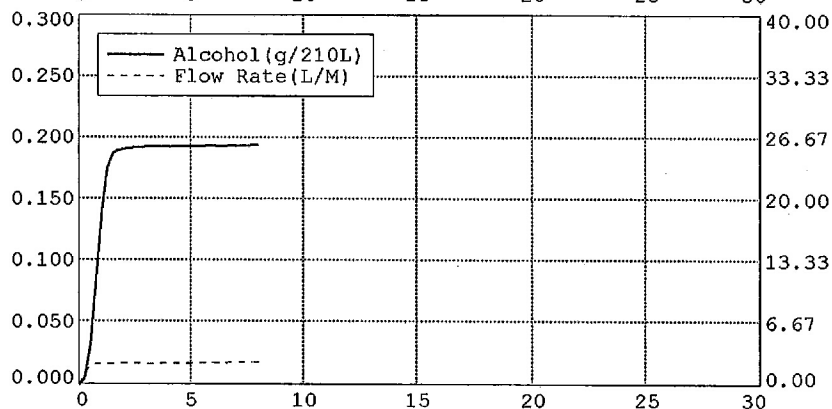
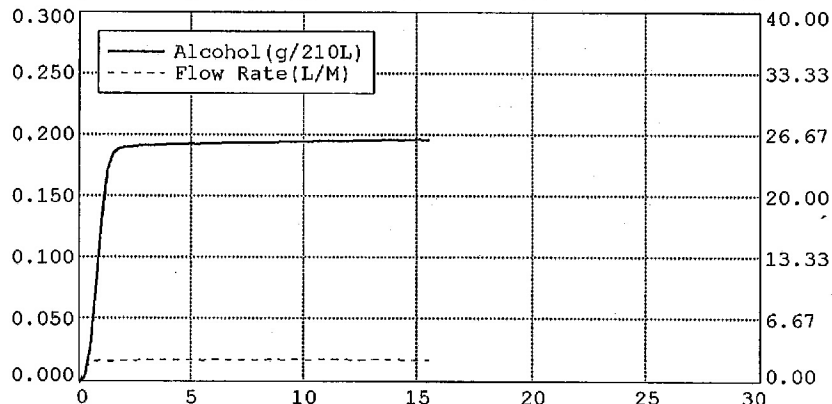
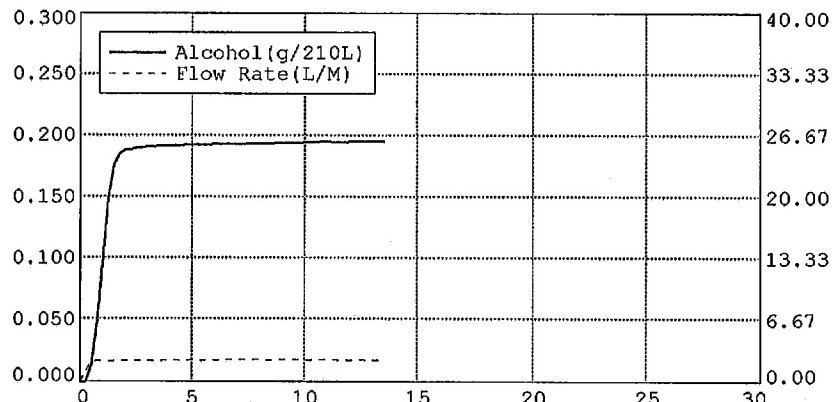
Date: 03/11/2011
Time: 12:08:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.75: 0.198
LOT #: 17610200A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	12:10
INTERNAL STANDARD	VERIFIED	12:10
EXTERNAL STANDARD	0.196	12:10
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.197	12:11
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.195	12:13
BLANK TEST	0.000	12:14
EXTERNAL STANDARD	0.198	12:14
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.194	12:15
BLANK TEST	0.000	12:16

Average = 0.1960
Std Dev = 0.0016



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100354

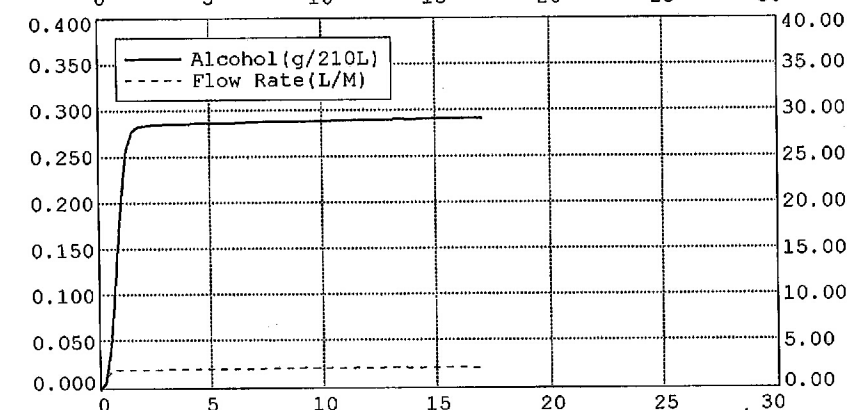
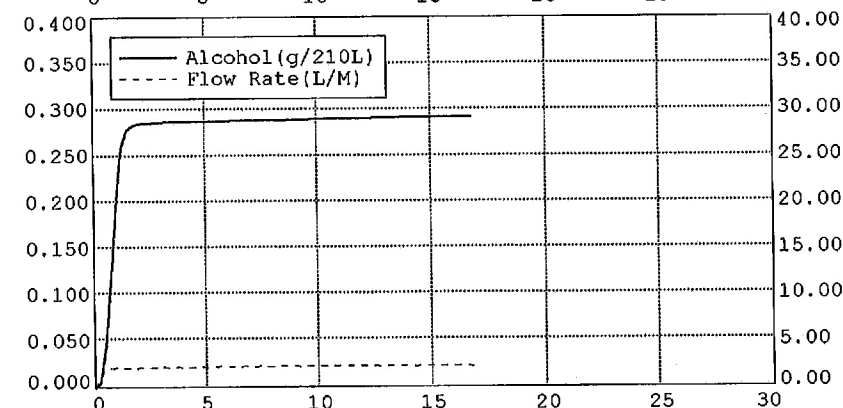
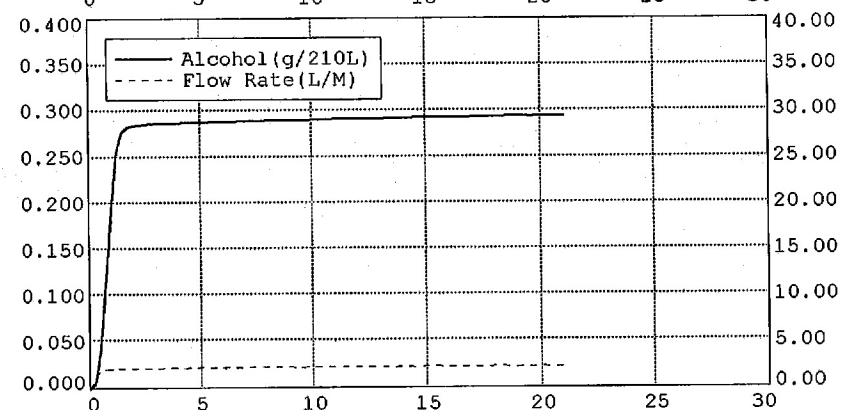
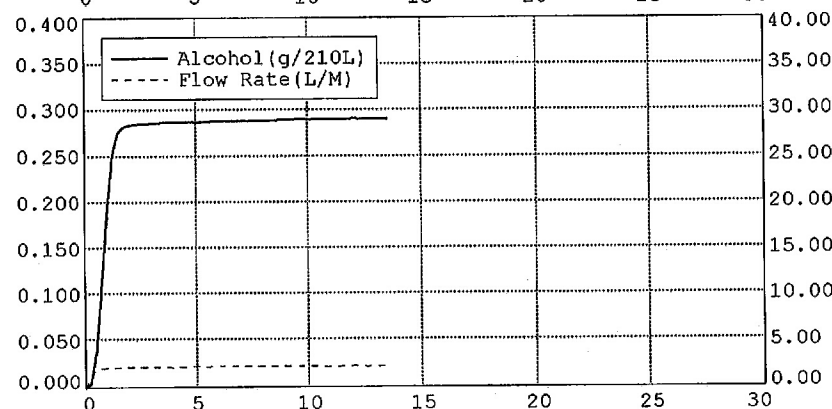
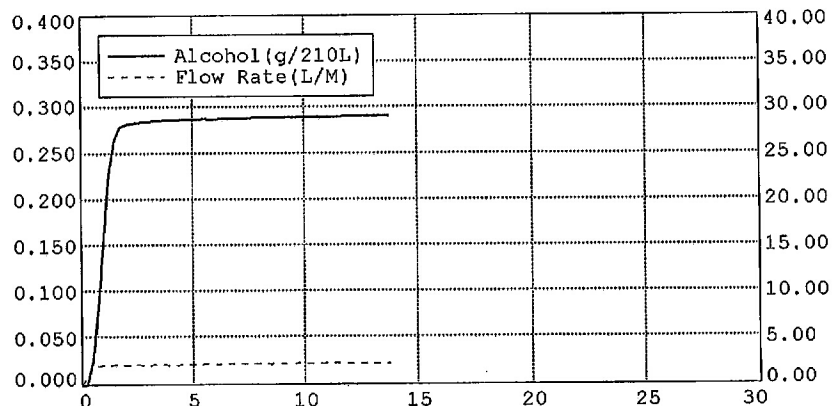
Date: 03/11/2011
Time: 12:17:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.74: 0.298
LOT #: 02811300A4
EXPIRATION: 02/01/2012

BLANK TEST	0.000	12:18
INTERNAL STANDARD	VERIFIED	12:18
EXTERNAL STANDARD	0.291	12:18
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.291	12:20
BLANK TEST	0.000	12:21
EXTERNAL STANDARD	0.294	12:21
BLANK TEST	0.000	12:23
EXTERNAL STANDARD	0.293	12:23
BLANK TEST	0.000	12:24
EXTERNAL STANDARD	0.292	12:24
BLANK TEST	0.000	12:25

Average = 0.2922
Std Dev = 0.0013



SUBJECT TEST

Alaska Department of Public Safety
DAMASTER dmt: 100354

Date: 03/11/2011

Time: 12:39:32

SUBJECT NAME:

TEST TEST

LICENSE #: INCOMPLETE

OPERATOR NAME:

COLLEEN S OBRZYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AA1

CASE/REPORT: 11-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.74: 0.079

LOS #: 33609080A1

EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK

BLINK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLINK TEST

SUBJECT SAMPLE

PASSED

0.000

VERIFIED

0.078

0.000

INCOMPLETE

12:40

12:40

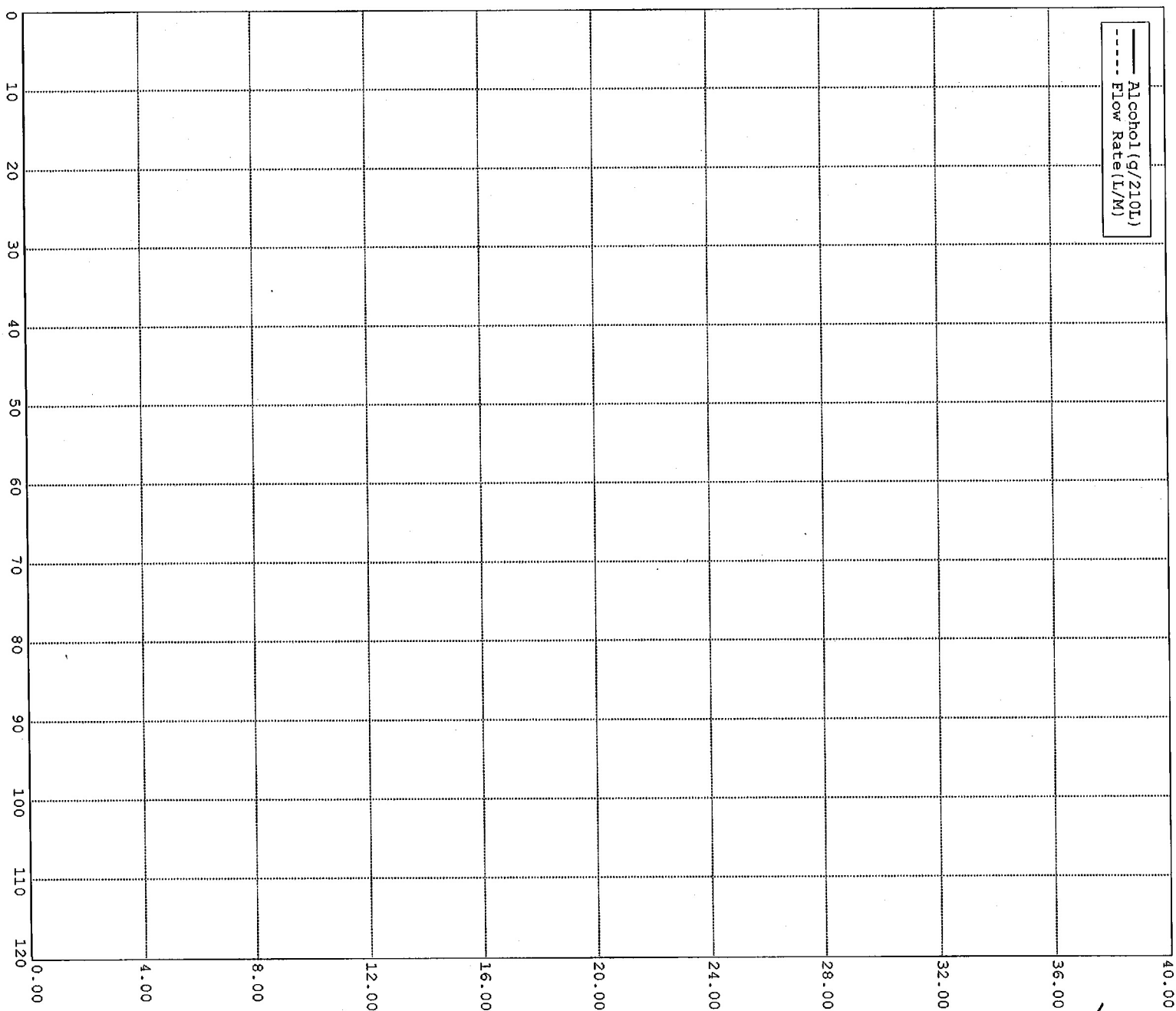
12:40

12:41

12:41

12:43

CAB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100354

Date: 03/11/2011
Time: 13:31:22

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

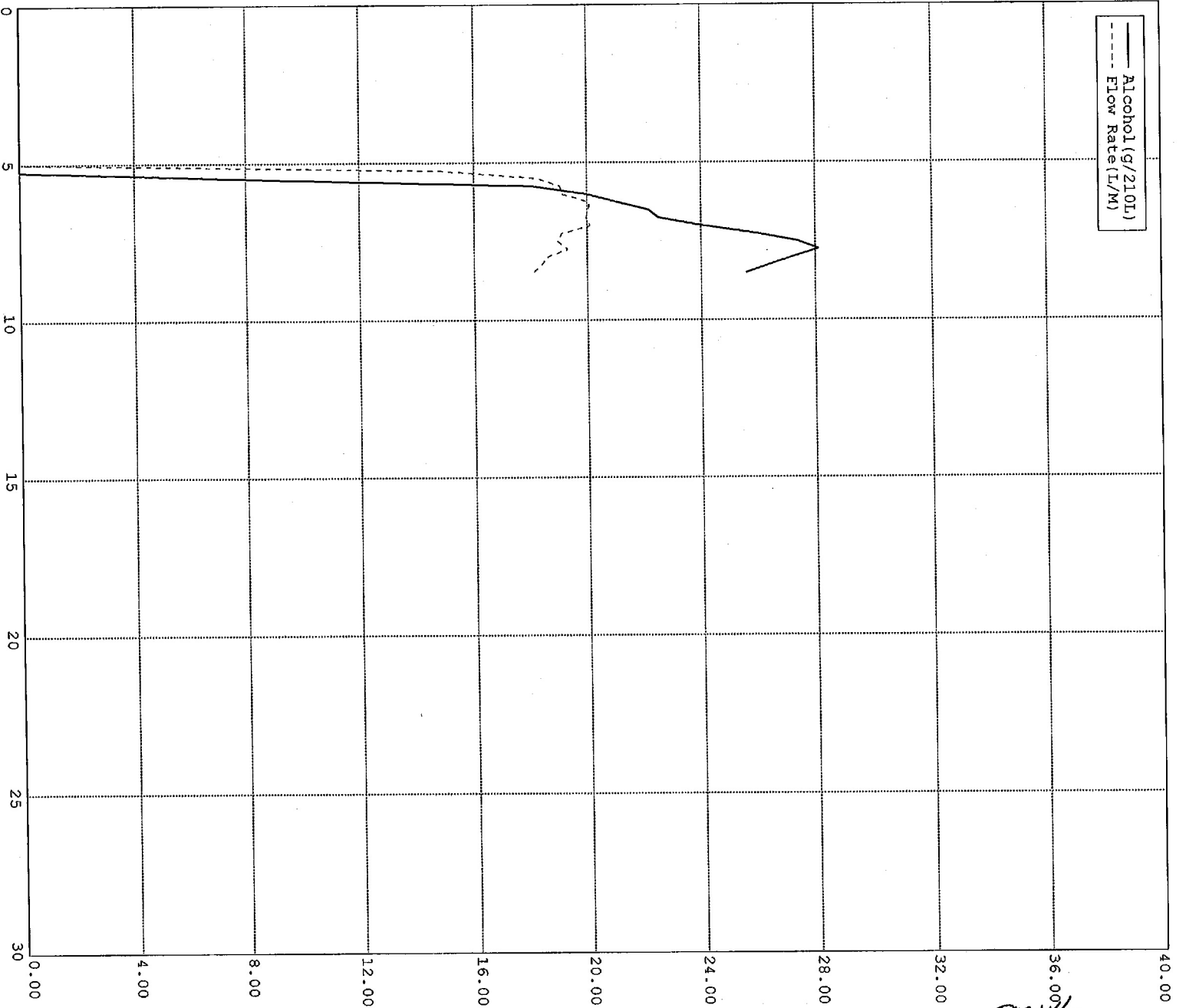
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.75: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK
BLANK TEST PASSED 13:32
INTERNAL STANDARD VERIFIED 13:32
EXTERNAL STANDARD 0.078 13:32
BLANK TEST 0.000 13:33
SUBJECT SAMPLE Invalid 13:34

CB



CB 4/18

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100354

Date: 03/11/2011

Time: 13:11:23

SUBJECT NAME:

TEST TEST

LICENSE #: INT - ACET

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 29.74: 0.079

LOT #: 33609080A1

EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

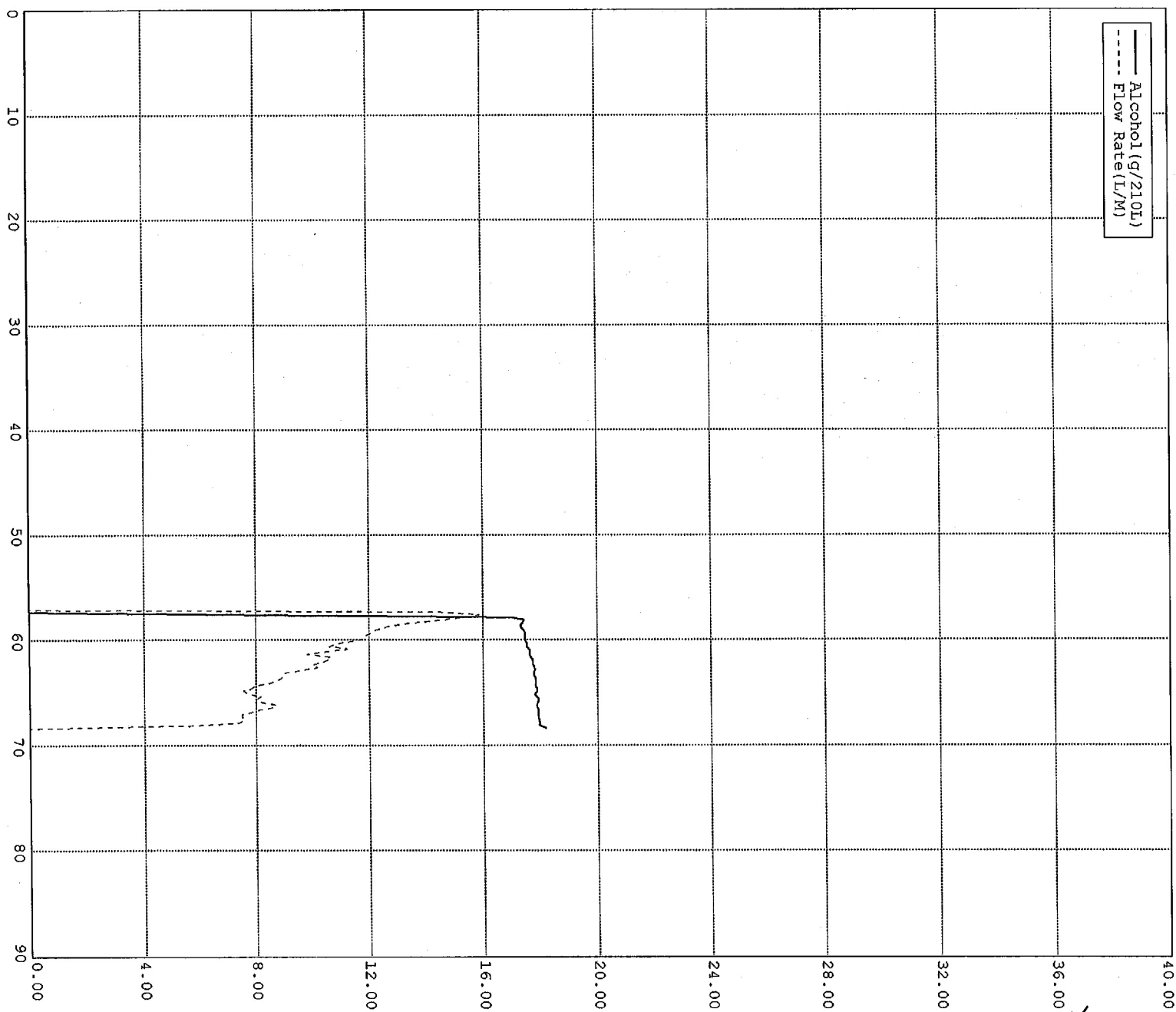
EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED	13:13
0.000	13:13
VERIFIED	13:13
0.079	13:13
0.000	13:14
INTERFERENCE	13:15

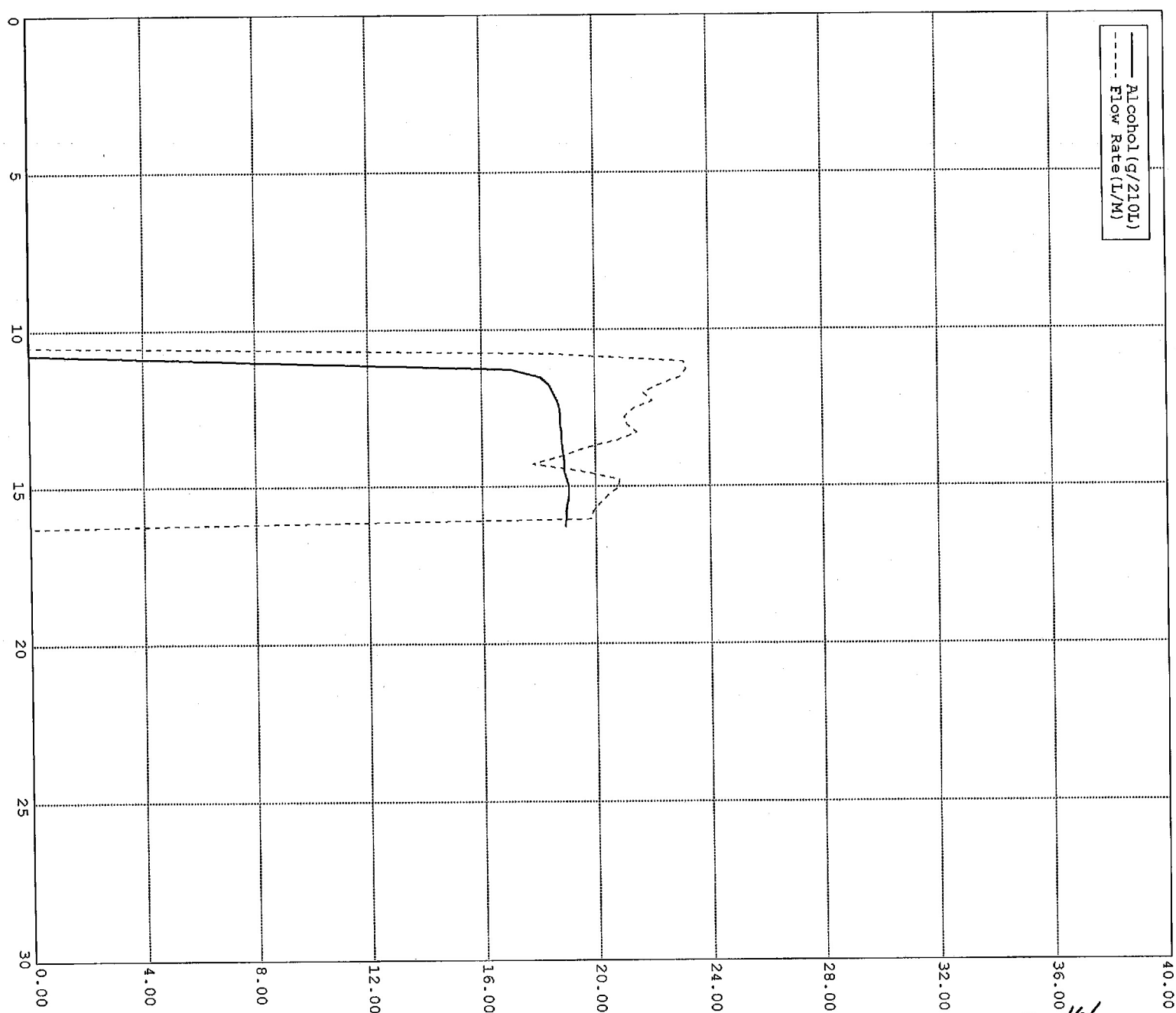
OS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmc: 100354Date: 03/11/2011
Time: 13:19:11SUBJECT NAME:
TEST TEST
LICENSE #: INT - ISOOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAA1
CASE/REPORT: 11-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.75: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012DIAGNOSTIC CHECK
BLANK TEST
INTERNAL STANDARD
EXTERNAL STANDARD
BLANK TEST
SUBJECT SAMPLE
PASSED
0.000
VERIFIED
0.078
0.000
INTERFERENCE
13:20
13:20
13:20
13:21
13:22

CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100354

Date: 03/11/2011

Time: 13:44:19

SUBJECT NAME:
TEST TEST
LICENSE #: RFIOPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAICASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.74: 0.079

LOT #: 33609080AI

EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK

BLANK TEST

PASSED 13:45

INTERNAL STANDARD

VERIFIED 13:45

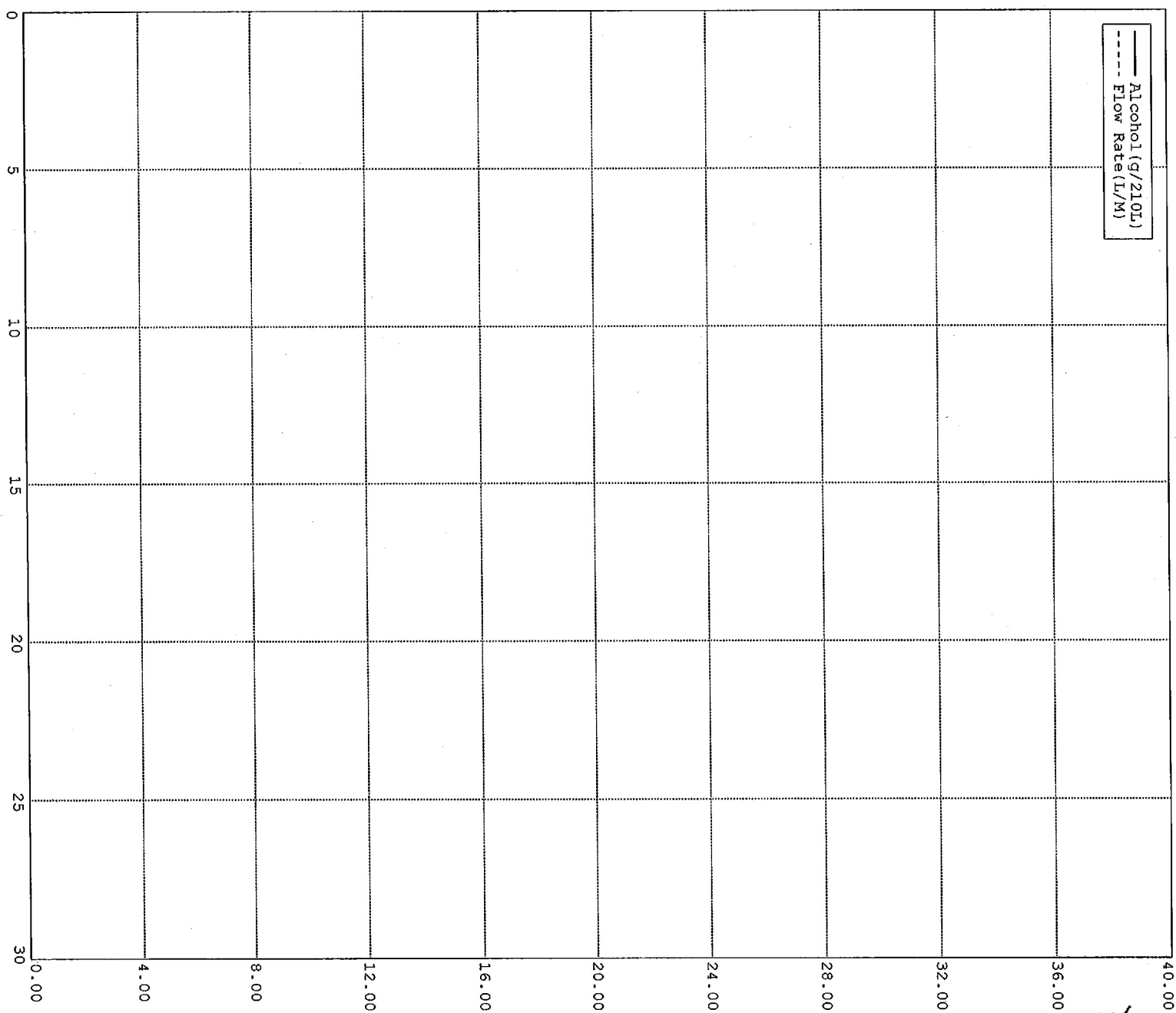
EXTERNAL STANDARD

0.077 13:45

BLANK TEST

0.000 13:46

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100354Date: 03/11/2011
Time: 14:03:15SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKINGOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 11-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.75: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:04
BLANK TEST	0.000	14:04
INTERNAL STANDARD	VERIFIED	14:04
EXTERNAL STANDARD	0.078	14:04
BLANK TEST	0.000	14:05
SUBJECT SAMPLE	0.000	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.078	14:07
BLANK TEST	0.000	14:08

CAB

