

	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 FormInstrument # 100359Analyst C. OBryantDate 03/11/11

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 ILMO Lot 02811020A1 Exp 2/1/13ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 2/1/13iii. 0.080g/210L Mnf ILMO Lot 33609080A1 Exp 1/1/12iv. 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 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: 100359

Date: 03/11/2011
Time: 08:52:09

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO

Flow Rate = 5.195 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: 100359

Date: 03/11/2011

Time: 9:03 AM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 47.7°C

Current Barometer 29.7 in

Volume (Ltr) 1.58

Settings

Lamp: 1.89 V

Bias: 80 V

Cooler: 1.84 V

Chopper: 542 Hz

Voltages (V)

Flow: 1.07 V

Detector: 0.646 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 01/12/2011
Time: 12:10:27

Ca = 0.1000
CAL = 0.988146 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0034 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0901 0.0500 <= Xq < 0.2000
a21 = 1.152894 1.050 <= a21 < 1.300
a31 = 0.403409 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100359

Date: 03/11/2011
 Time: 09:17:37

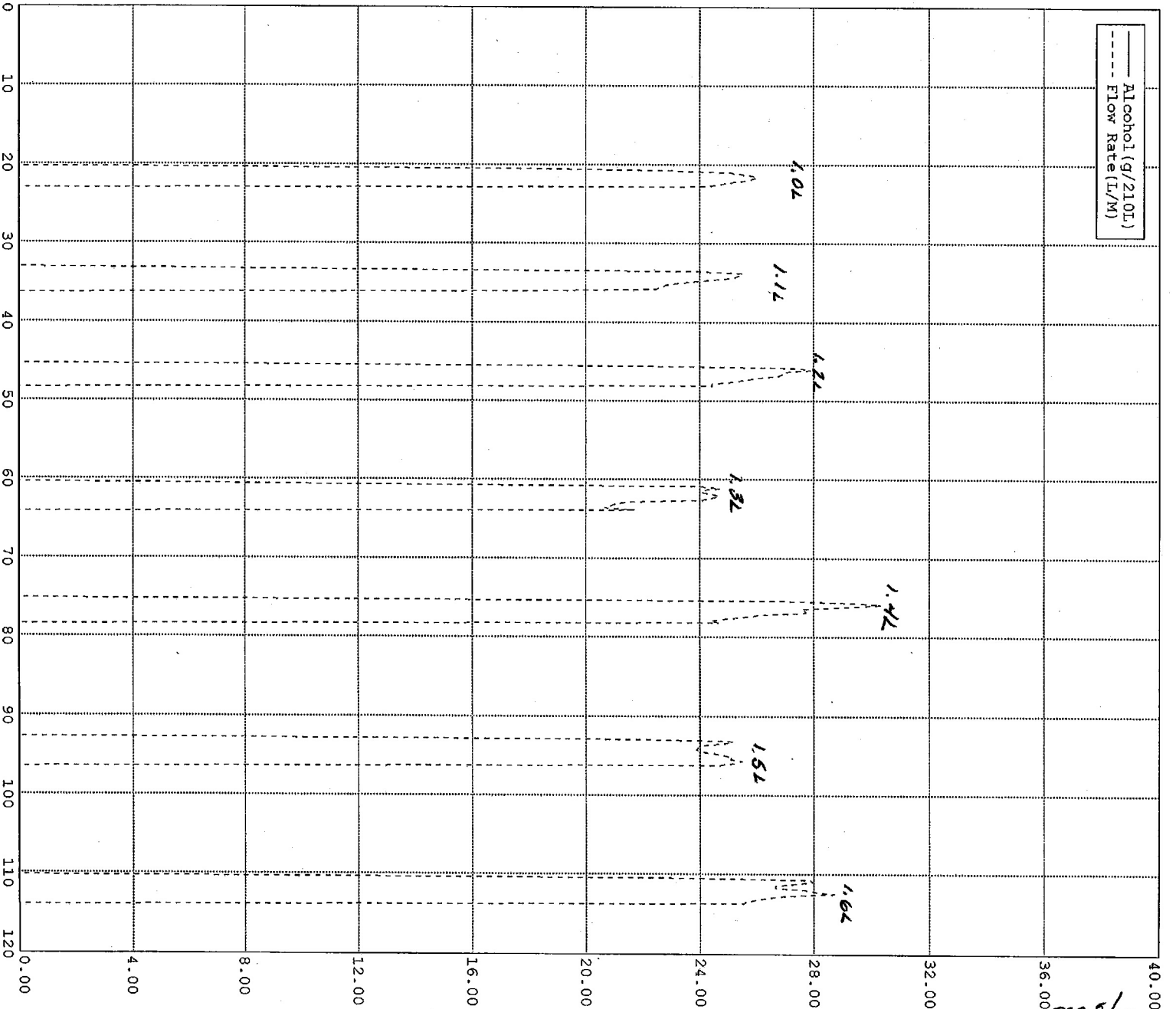
SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.72: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	09:18
BLANK TEST	0.000	09:18
INTERNAL STANDARD	VERIFIED	09:19
EXTERNAL STANDARD	0.081	09:19
BLANK TEST	0.000	09:20
SUBJECT SAMPLE	0.000	09:22
BLANK TEST	0.000	09:23
EXTERNAL STANDARD	0.080	09:23
BLANK TEST	0.000	09:24



LINEARITY CHECK

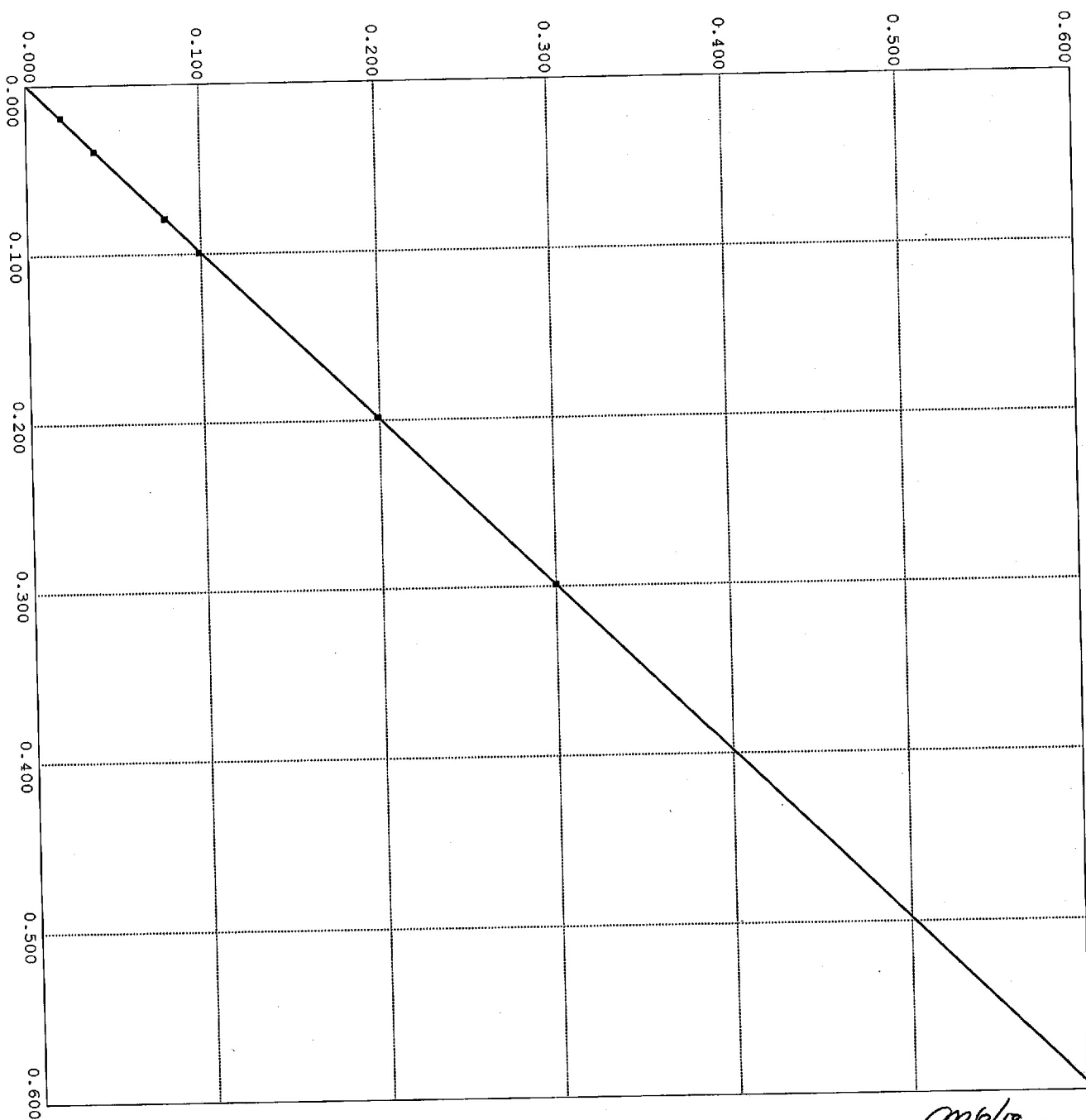
Alaska Department of Public Safety
 DATAMASTER dmt: 100359

Date: 03/11/2011
 Time: 10:11:01

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0206	0.0005
0.039	0.0398	0.0004
0.079	0.0800	0.0000
0.099	0.0996	0.0005
0.198	0.1998	0.0008
0.298	0.3006	0.0011

SLOPE = 1.005411
 R^2 = 0.999990



CS

LINEARITY CHECK: Control Test 1

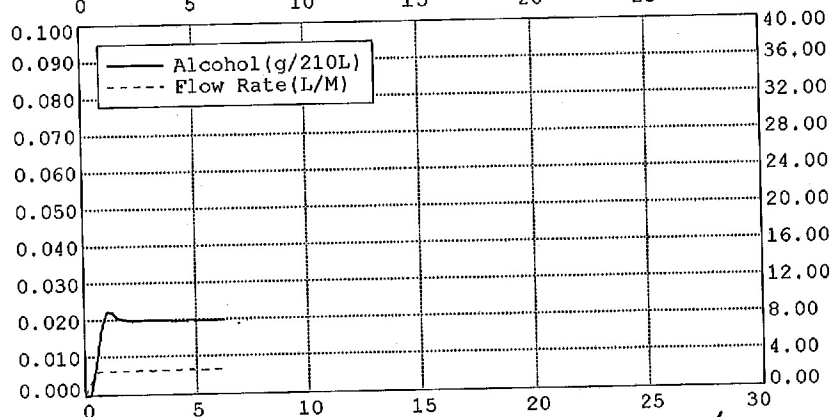
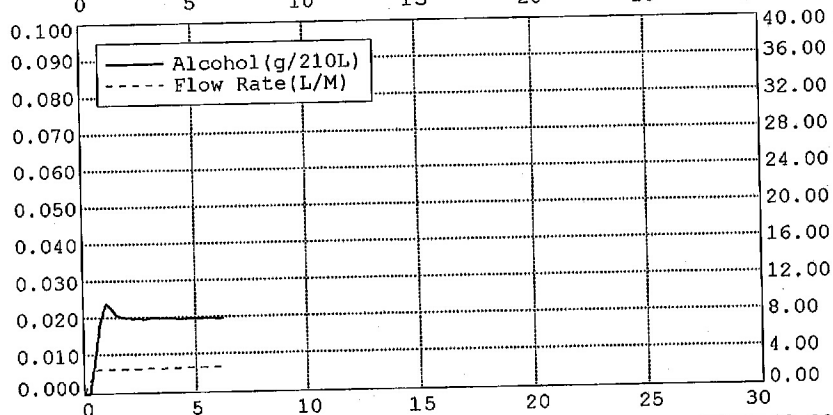
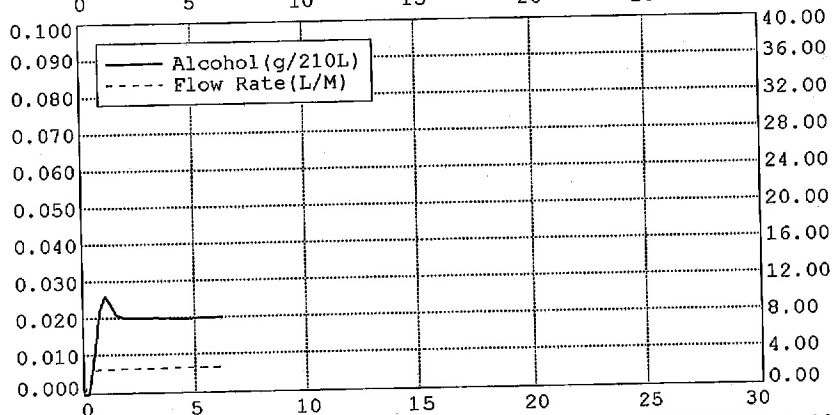
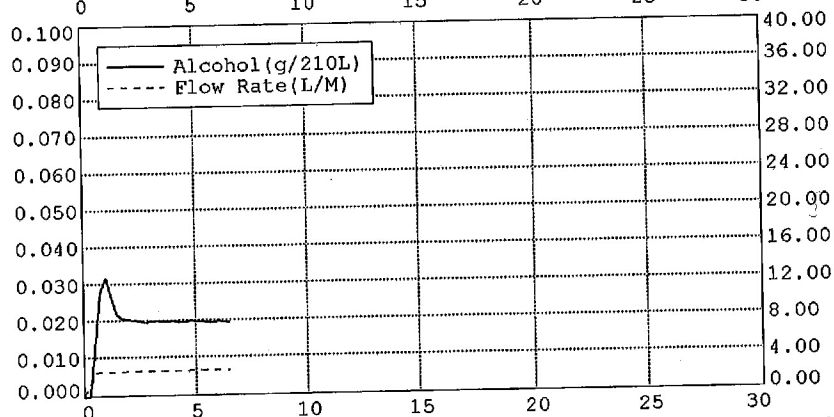
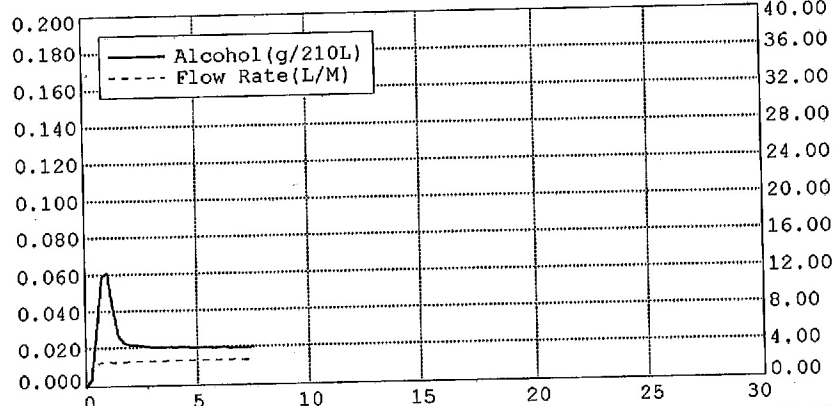
Alaska Department of Public Safety
DATAMASTER dmt; 100359

Date: 03/11/2011
Time: 10:11:02

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.72: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:12
INTERNAL STANDARD	VERIFIED	10:12
EXTERNAL STANDARD	0.021	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.020	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.021	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.020	10:16
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.021	10:17
BLANK TEST	0.000	10:18

Average = 0.0206
Std Dev = 0.0005



03/18

LINEARITY CHECK: Control Test 2

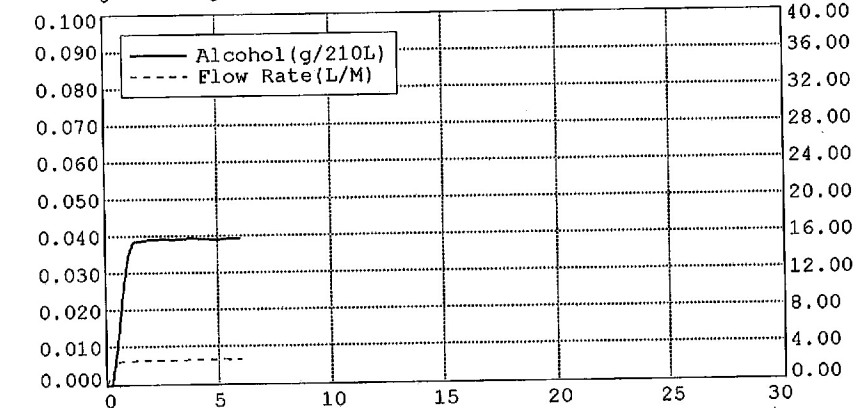
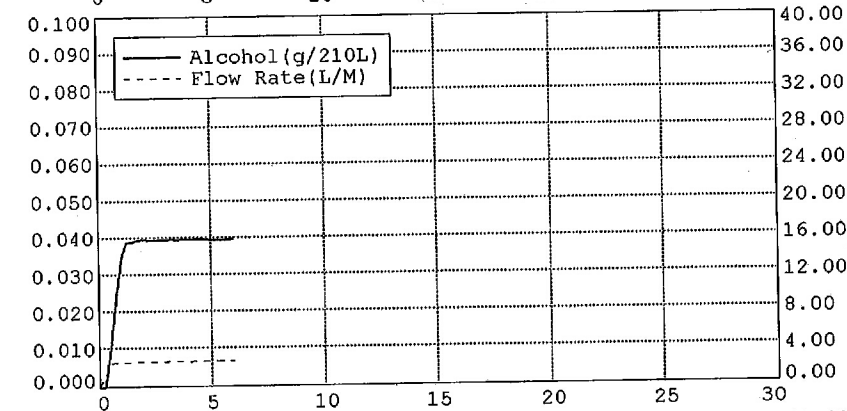
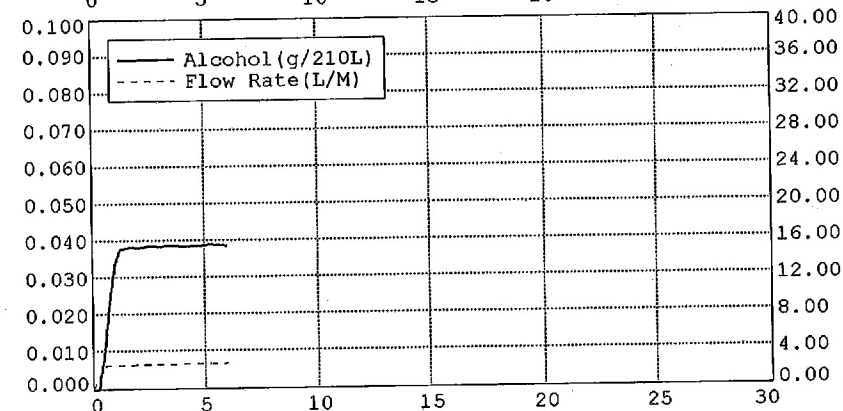
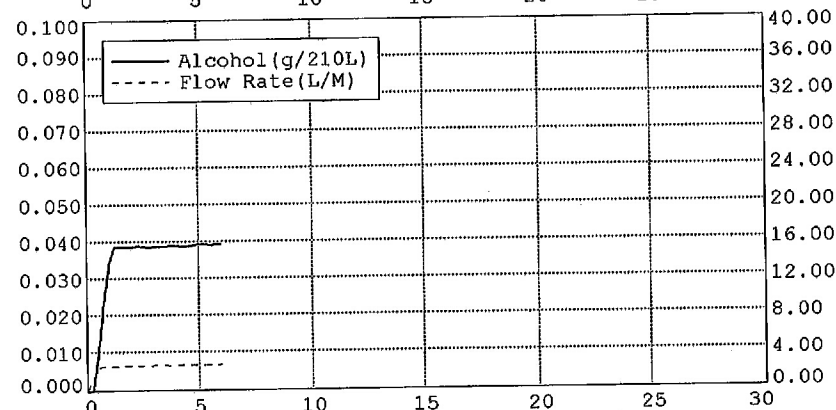
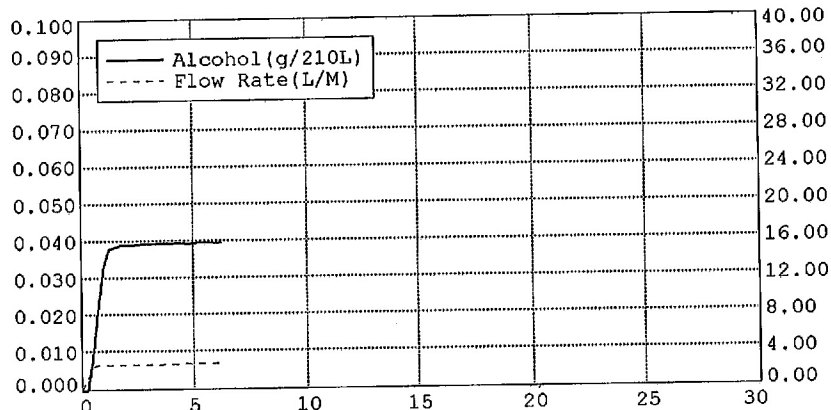
Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 03/11/2011
Time: 10:19:30

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.73: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:20
INTERNAL STANDARD	VERIFIED	10:20
EXTERNAL STANDARD	0.040	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.040	10:22
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.039	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.040	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.040	10:25
BLANK TEST	0.000	10:26

Average = 0.0398
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

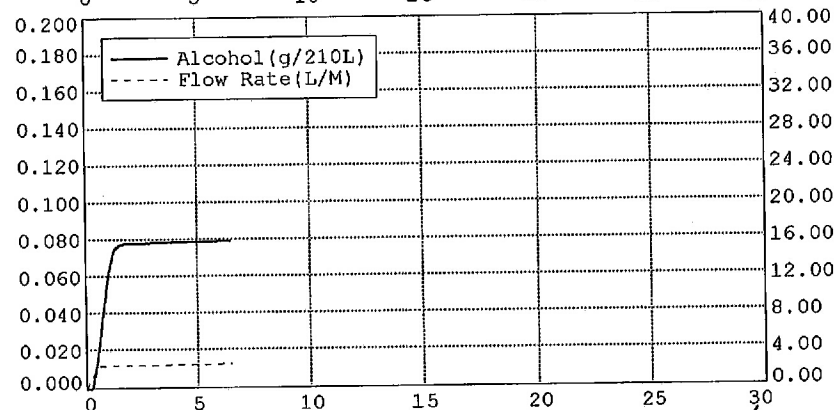
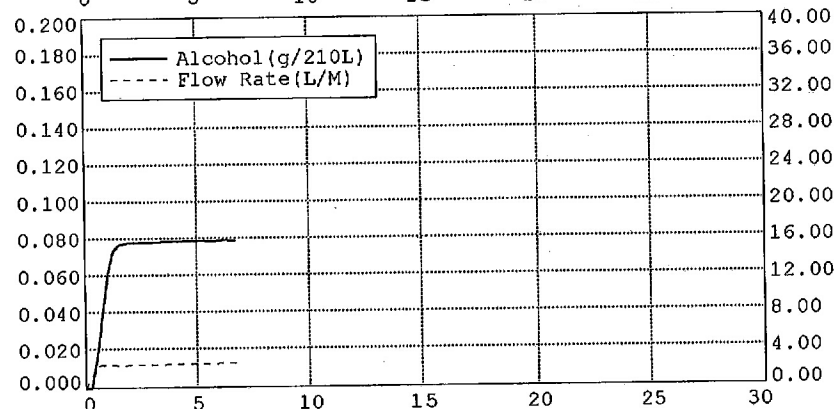
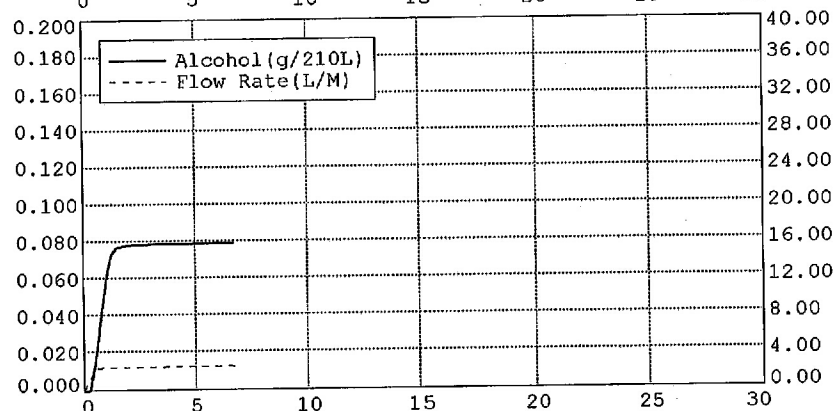
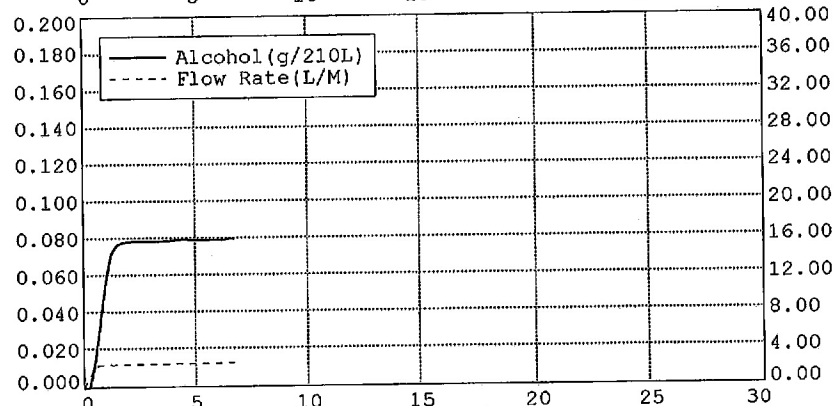
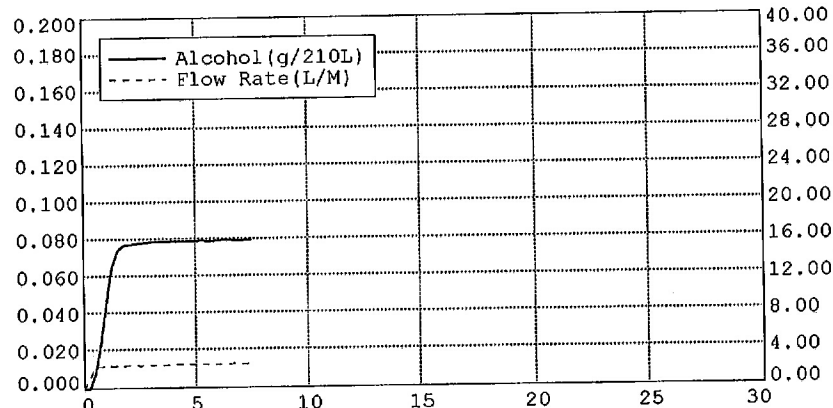
Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 03/11/2011
Time: 10:27:35

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.73: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	10:28
INTERNAL STANDARD	VERIFIED	10:28
EXTERNAL STANDARD	0.080	10:29
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.080	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.080	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.080	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.080	10:33
BLANK TEST	0.000	10:34

Average = 0.0800
Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

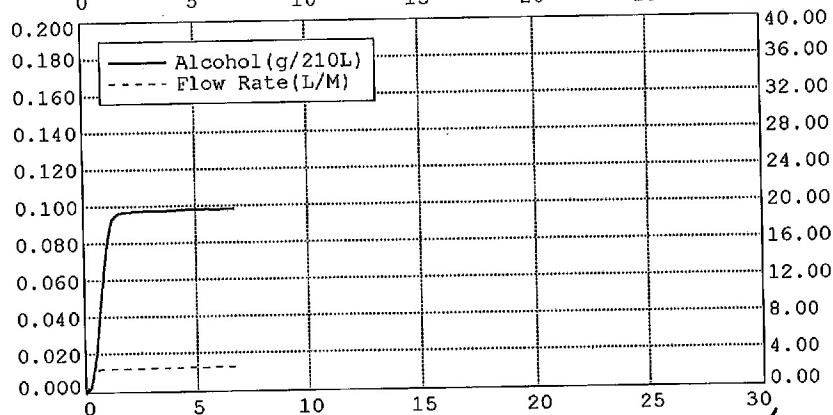
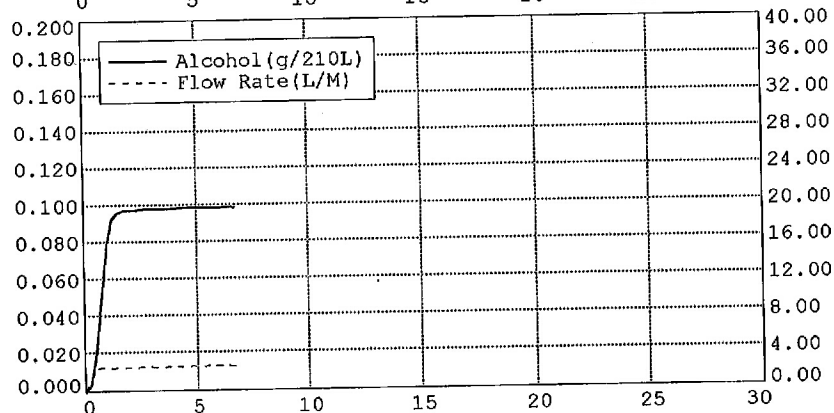
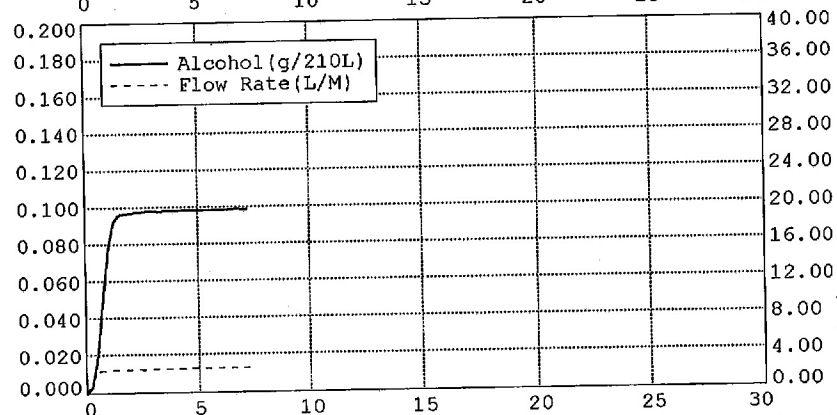
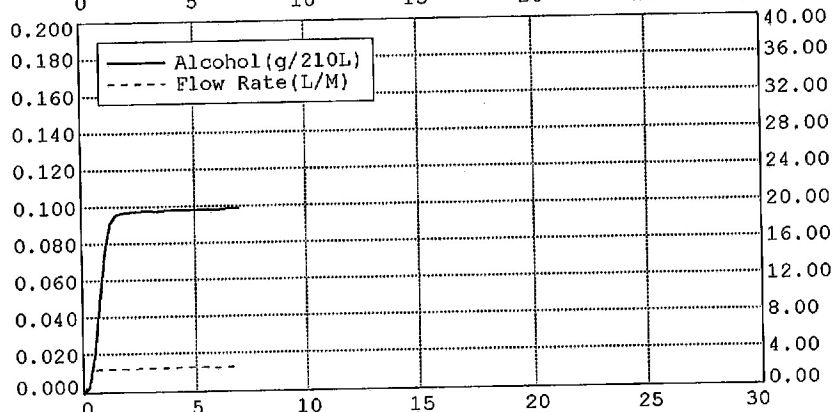
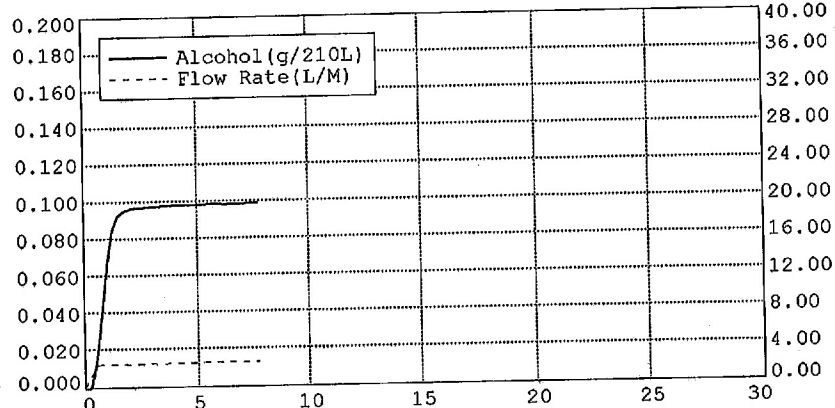
Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 03/11/2011
Time: 10:35:30

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.72: 0.099
LOT #: 0561100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:37
INTERNAL STANDARD	VERIFIED	10:37
EXTERNAL STANDARD	0.100	10:37
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.100	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.100	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.099	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.099	10:42
BLANK TEST	0.000	10:42

Average = 0.0996
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

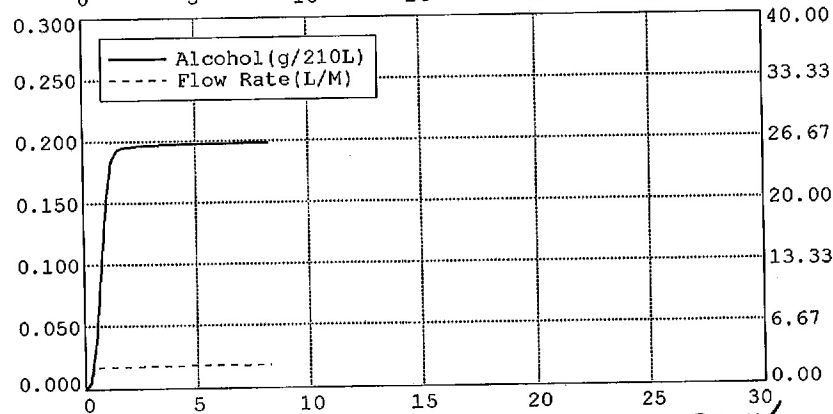
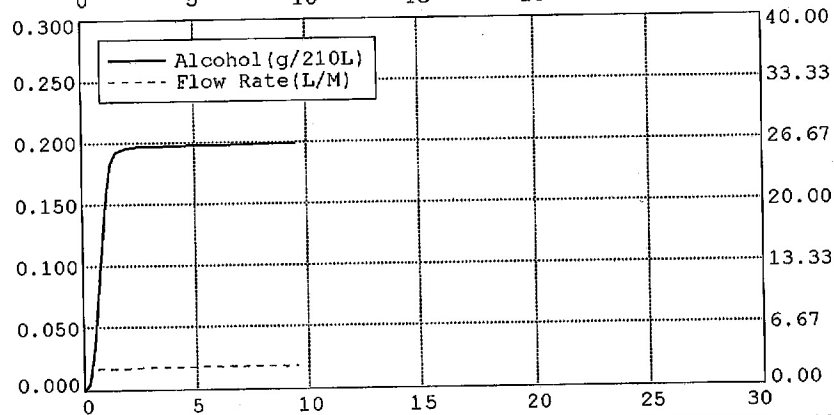
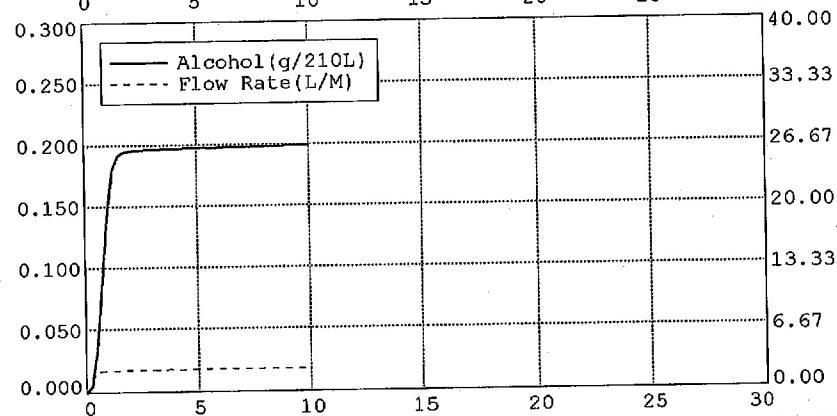
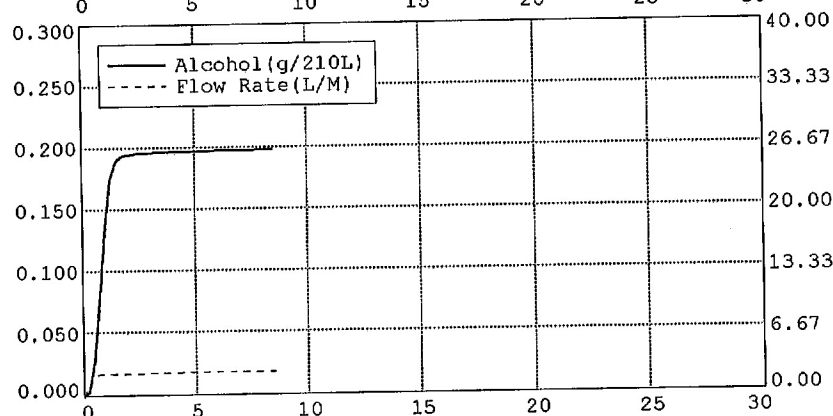
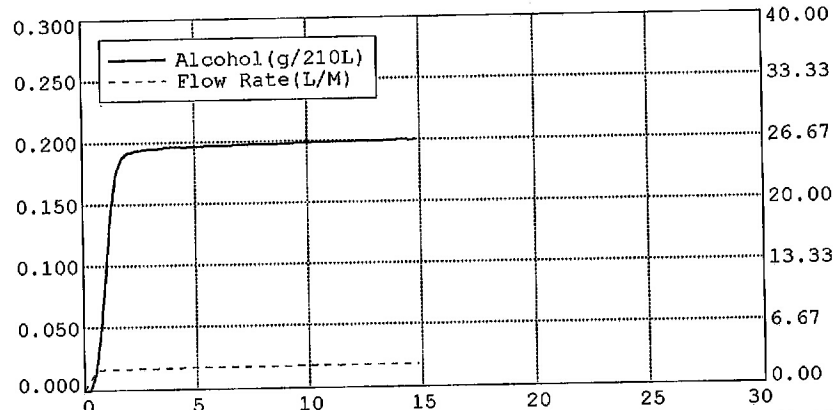
Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 03/11/2011
Time: 10:45:55

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.200
TARGET AT 29.73: 0.198
LOT #: 17610200A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	10:47
INTERNAL STANDARD	VERIFIED	10:47
EXTERNAL STANDARD	0.201	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.199	10:49
BLANK TEST	0.000	10:49
EXTERNAL STANDARD	0.200	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.200	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.199	10:52
BLANK TEST	0.000	10:53

Average = 0.1998
Std Dev = 0.0008



LINEARITY CHECK: Control Test 6

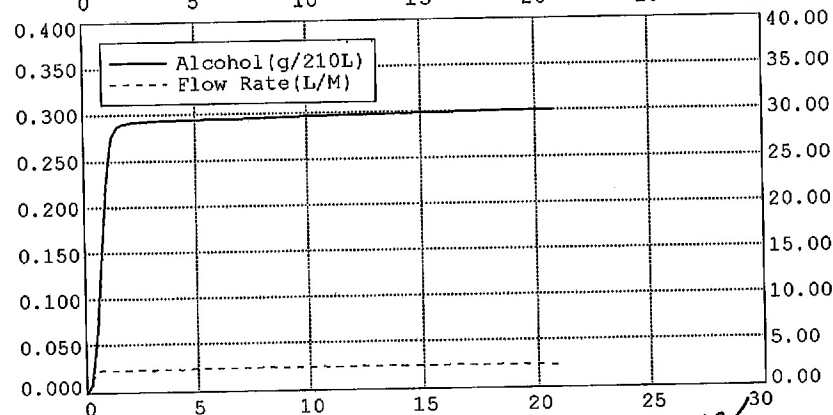
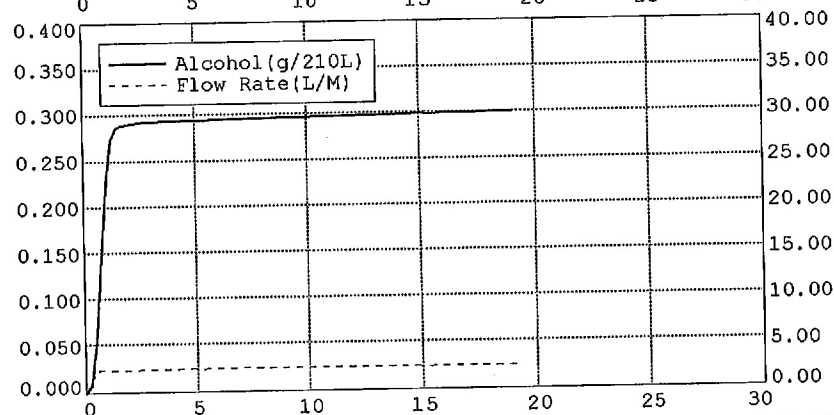
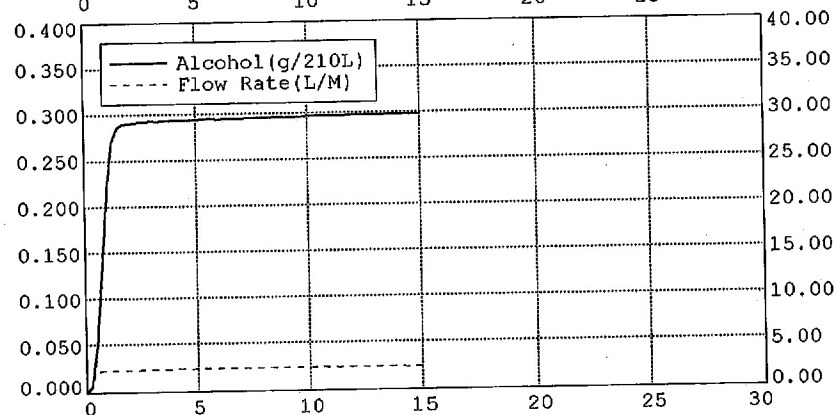
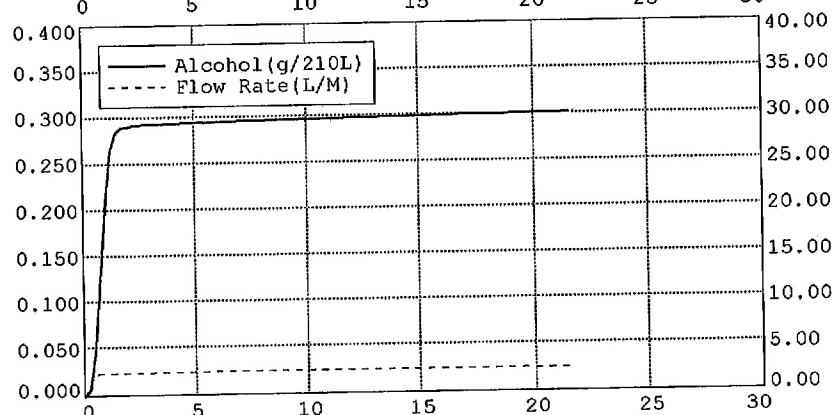
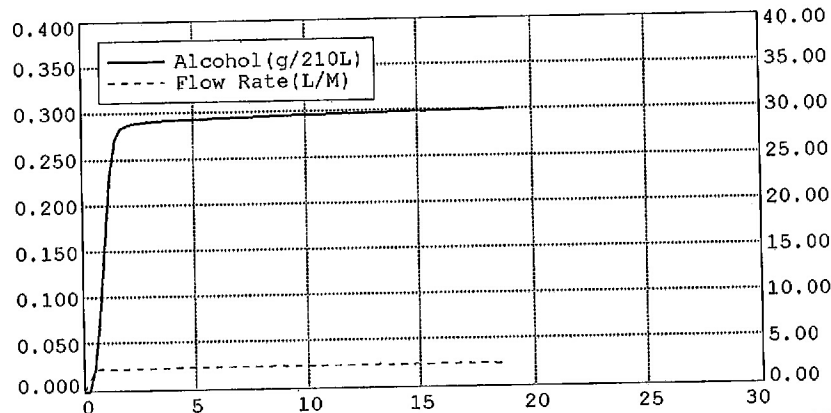
Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 03/11/2011
Time: 10:59:27

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
TARGET AT 29.73: 0.298
LOT #: 02811300A4
EXPIRATION: 02/01/2012

BLANK TEST	0.000	11:00
INTERNAL STANDARD	VERIFIED	11:01
EXTERNAL STANDARD	0.301	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.302	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.299	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.300	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.301	11:07
BLANK TEST	0.000	11:09

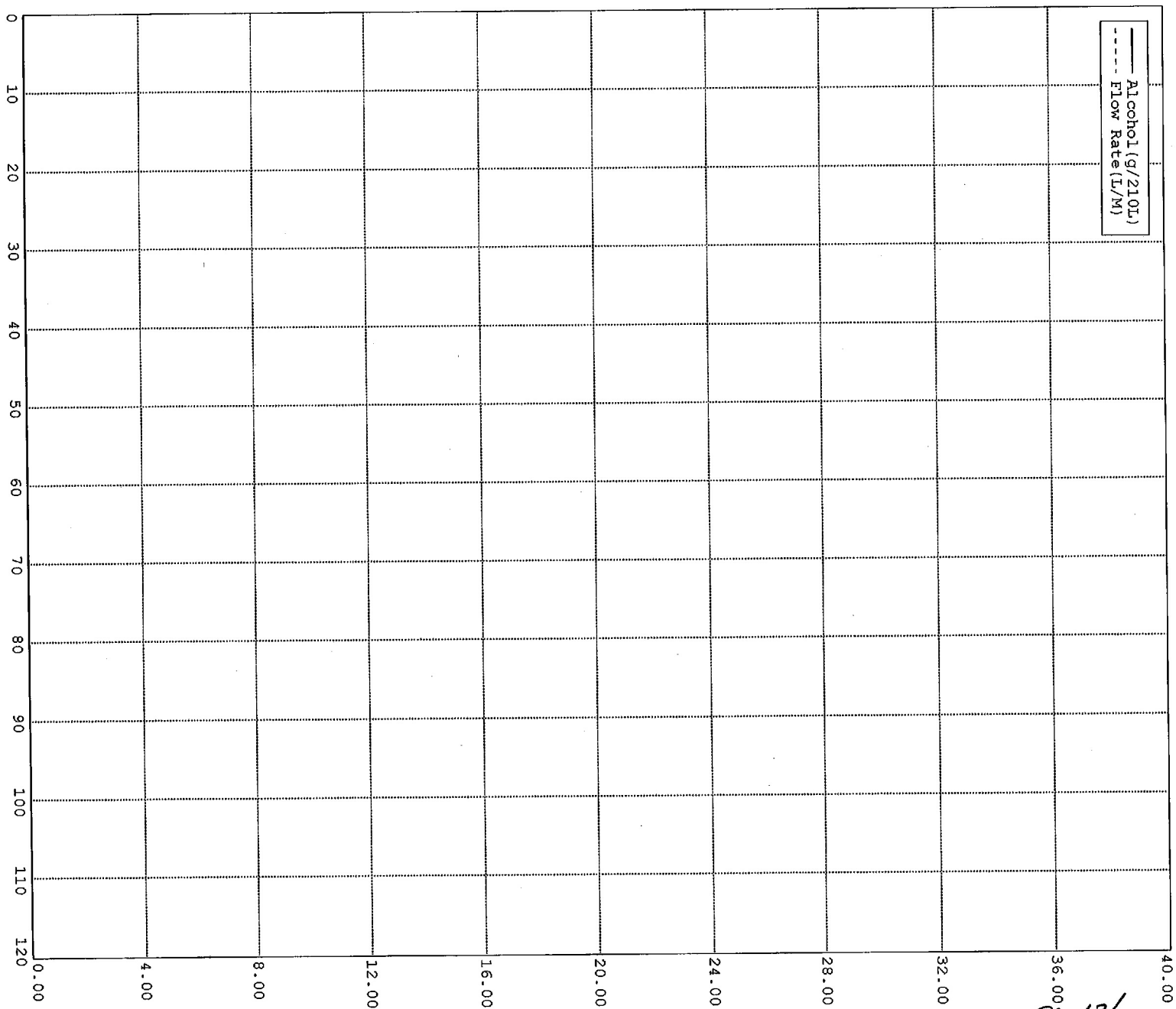
Average = 0.3006
Std Dev = 0.0011



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100359Date: 03/11/2011
Time: 11:51:54SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETEOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 11-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.73: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012DIAGNOSTIC CHECK
BLANK TEST PASSED 11:52
INTERNAL STANDARD VERIFIED 11:53
EXTERNAL STANDARD 0.080 11:53
BLANK TEST 0.000 11:54
SUBJECT SAMPLE INCOMPLETE 11:56

CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 03/11/2011

Time: 12:21:30

SUBJECT NAME:

TEST TEST
LICENSE #: INVALID

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 29.72: 0.079

LOT #: 33609080A1

EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

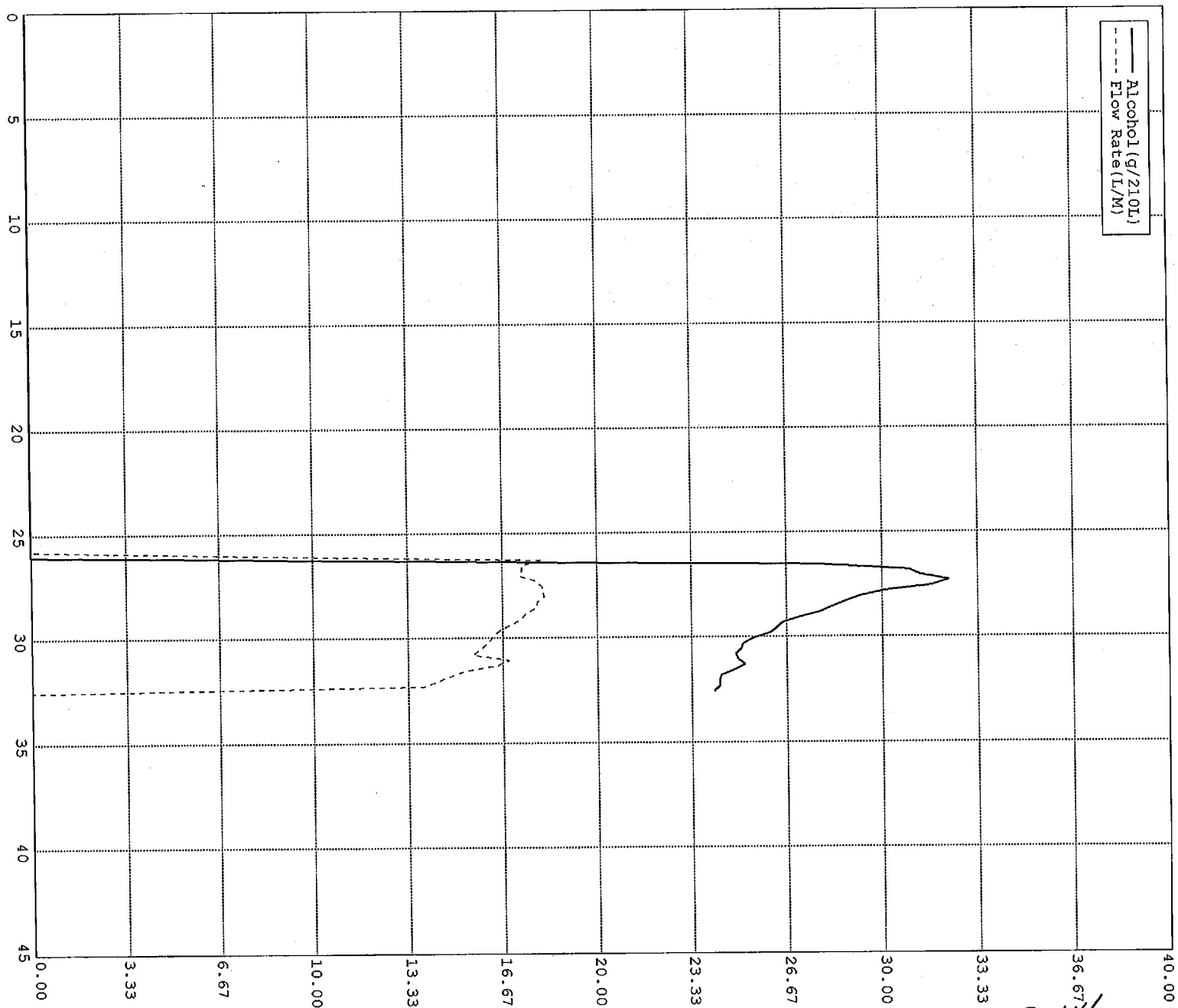
EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED	12:22
0.000	12:22
VERIFIED	12:22
0.080	12:23
0.000	12:24
Invalid	12:24

MB

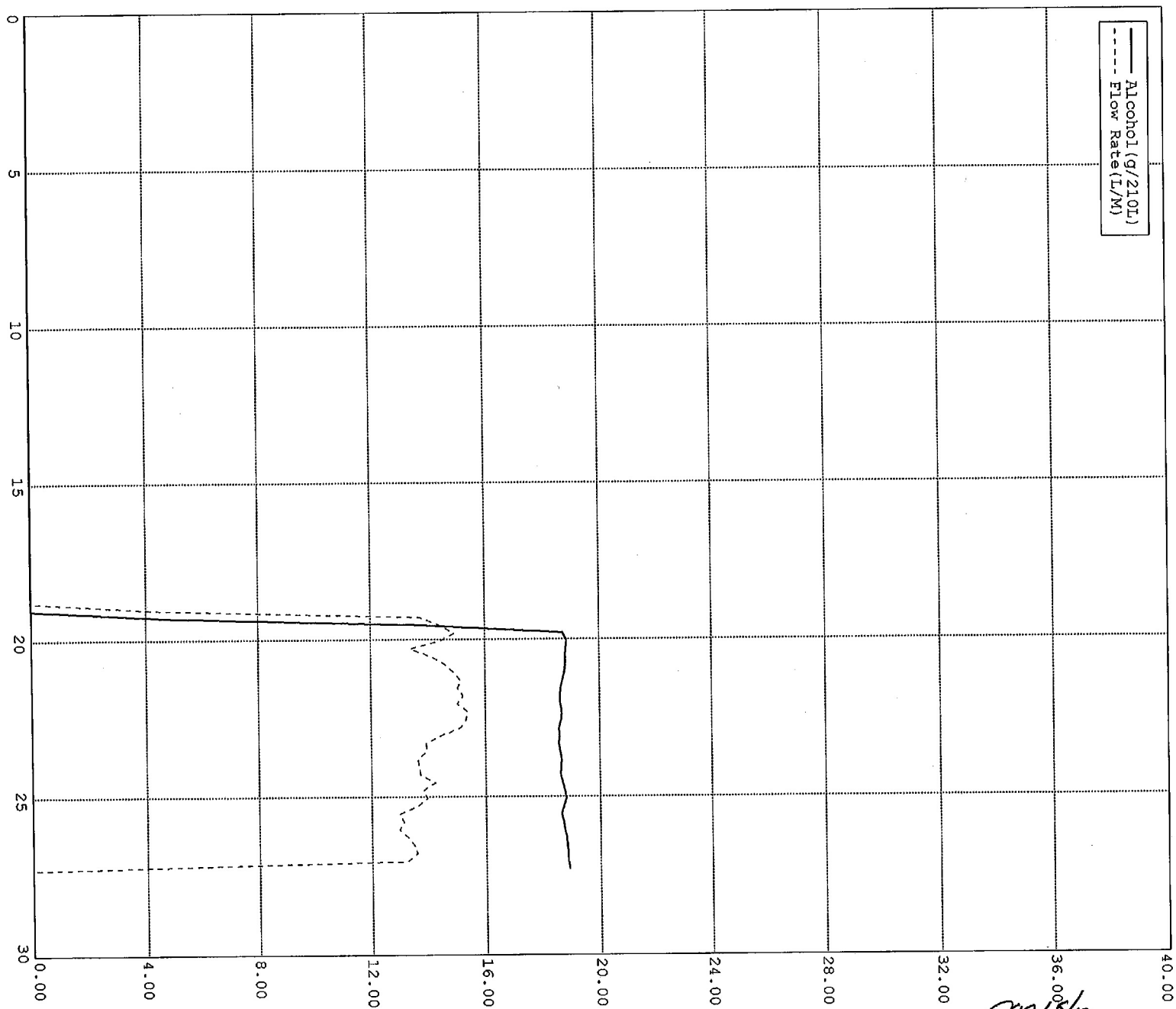


MB 3/11/11

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100359Date: 03/11/2011
Time: 11:58:22SUBJECT NAME:
TEST TEST
LICENSE #: INTF - ACTNOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 11-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012DIAGNOSTIC CHECK
BLANK TEST PASSED 11:59
INTERNAL STANDARD VERIFIED 11:59
EXTERNAL STANDARD 0.080 11:59
BLANK TEST 0.000 12:00
SUBJECT SAMPLE INTERFERENCE 12:01

CB



CB 12/18

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100359

Date: 03/11/2011
 Time: 12:03:22

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTF - ISO

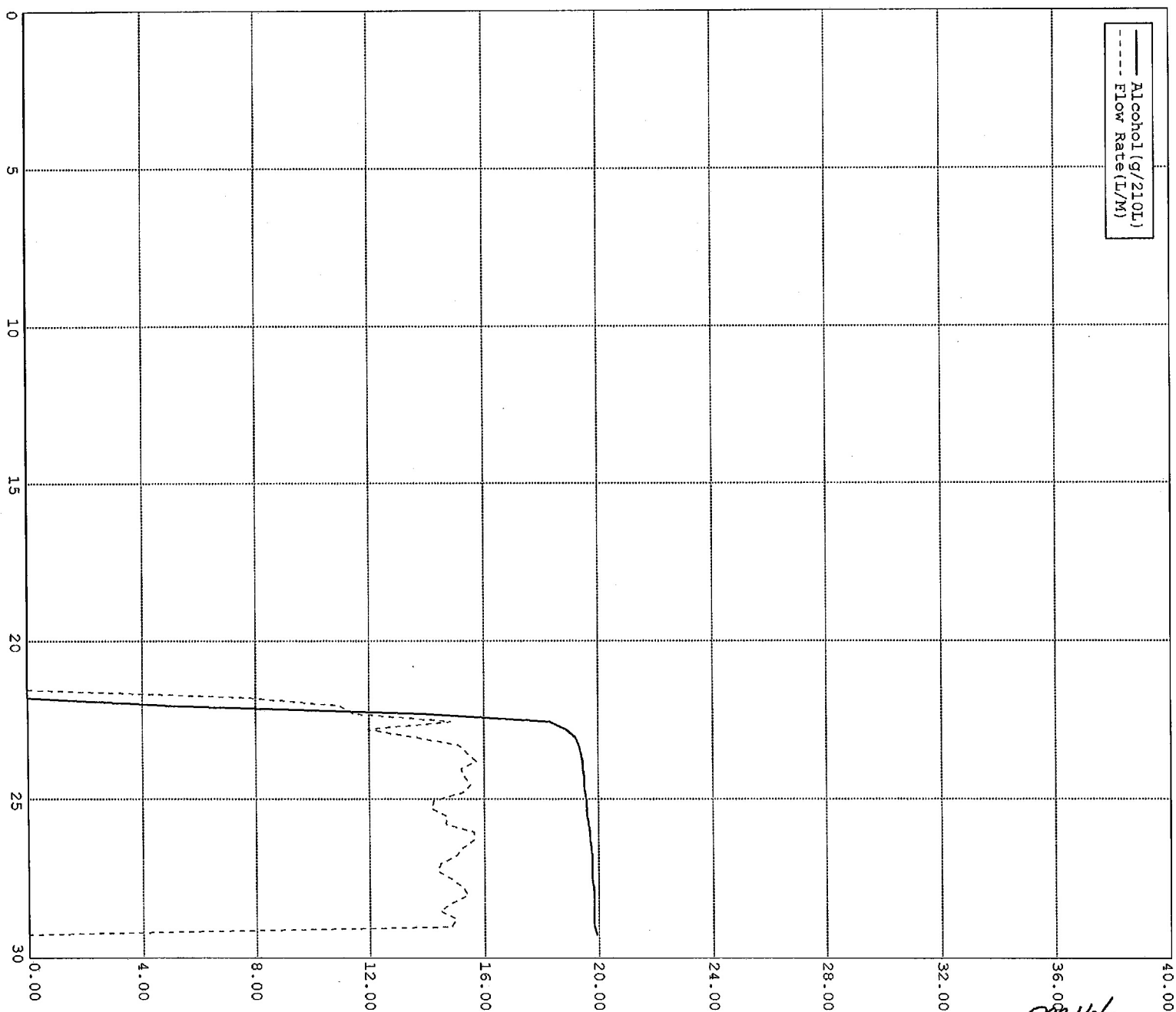
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.72: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	12:04
BLANK TEST	0.000	12:04
INTERNAL STANDARD	VERIFIED	12:04
EXTERNAL STANDARD	0.080	12:04
BLANK TEST	0.000	12:05
SUBJECT SAMPLE	INTERFERENCE	12:06

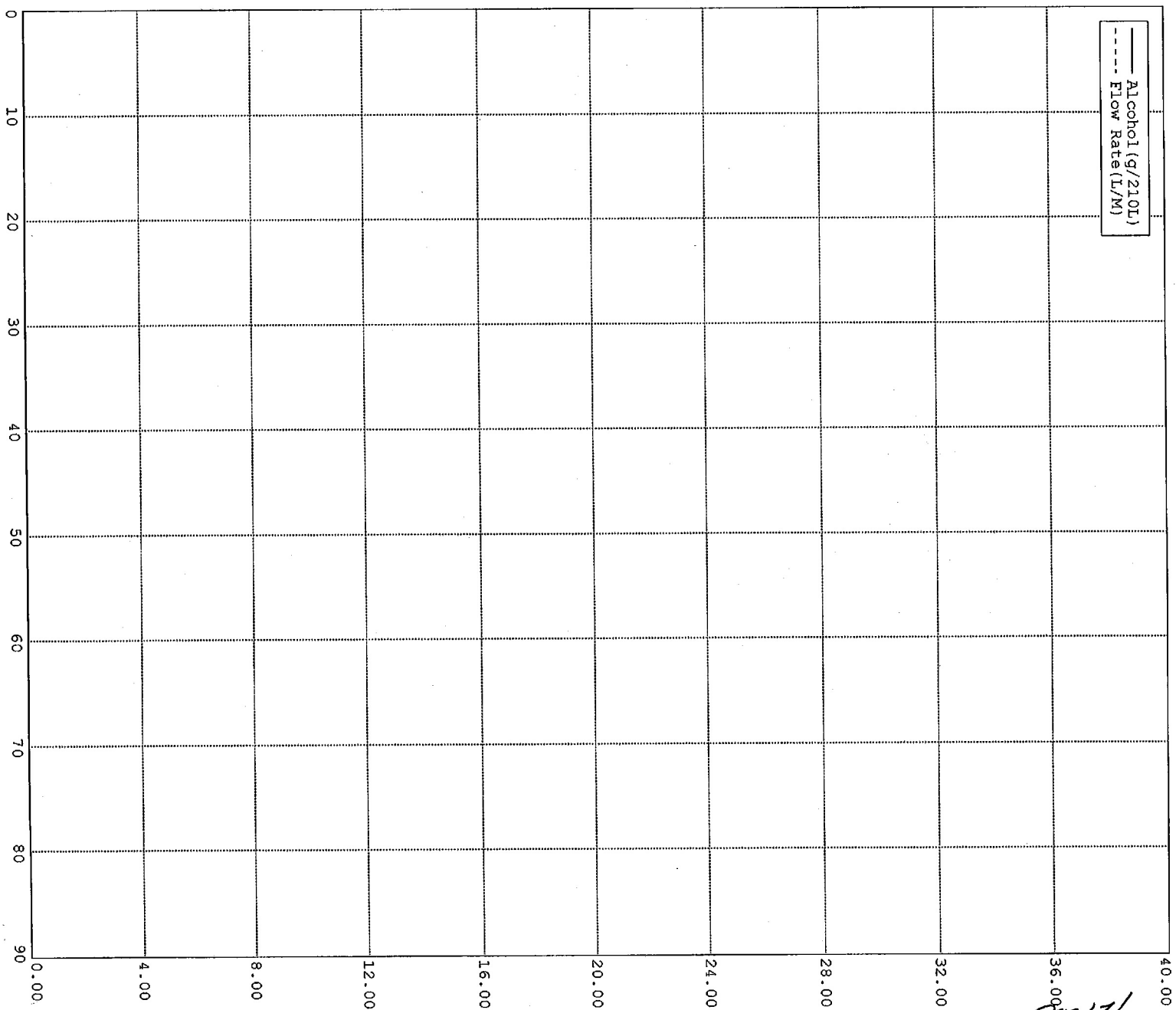
CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100359Date: 03/11/2011
Time: 12:08:56SUBJECT NAME:
TEST TEST
LICENSE #: RFIOPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 11-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012DIAGNOSTIC CHECK
BLANK TEST PASSED 12:11
INTERNAL STANDARD VERIFIED 12:12
EXTERNAL STANDARD 0.080 12:12
BLANK TEST 0.000 12:13

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100359

Date: 03/11/2011
 Time: 13:12:14

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON-DRINKING

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

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.71: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	13:13
BLANK TEST	0.000	13:13
INTERNAL STANDARD	VERIFIED	13:13
EXTERNAL STANDARD	0.079	13:13
BLANK TEST	0.000	13:14
SUBJECT SAMPLE	0.000	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.080	13:16
BLANK TEST	0.000	13:16

CS

