

	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 # 100346Analyst C. O' BryantDate 3/14/11

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 1400 mL ☒
5. Dry Gas Linearity Test (attached)
 - a. Levels Used ☒
 - i. 0.020g/210L Mnf ILMO Lot 02811020A1 Exp 02/01/2013
 - ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 02/01/2013
 - iii. 0.080g/210L Mnf ILMO Lot 33609080A1 Exp 01/01/2012
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 01/01/2013
 - v. 0.200g/210L Mnf ILMO Lot 17610200A1 Exp 07/01/2012
 - vi. 0.300g/210L Mnf ILMO Lot 05611300A4 Exp 03/01/2013
6. Functional Tests (attached)
 - a. Incomplete ☒
 - b. Invalid ☒
 - c. Interference ☒
 - i. Acetone - Mnf 60th Lot 09840 Level 0.080 Exp 12/6/11
 1. Simulator Calibration Date 10/18/10 SN DIR 6267
 - ii. Isopropanol - Mnf 60th Lot 9340 Level 0.080 Exp 12/2/11
 1. Simulator Calibration Date 8/4/10 SN SD1202
 - 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: 100346

Date: 03/14/2011
Time: 07:38:23

VERSIONS

DMT: 1.01
PIC: 3.01
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 45.2°C	PASSED

PUMP INFO

Flow Rate = 5.290 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

INTERNAL STANDARD	PASSED
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Technician Screen

DATAMASTER dmt: 100346

Date: 03/14/2011
Time: 7:42 AM

Temperatures (°C)

Sample Cell: 49.1°C
Breath Tube: 45.2°C

Current Barometer 29.3 in
Volume (Ltr) 1.53

Settings

Lamp: 2.28 V
Bias: 80 V
Cooler: 1.73 V
Chopper: 545 Hz

Voltages (V)

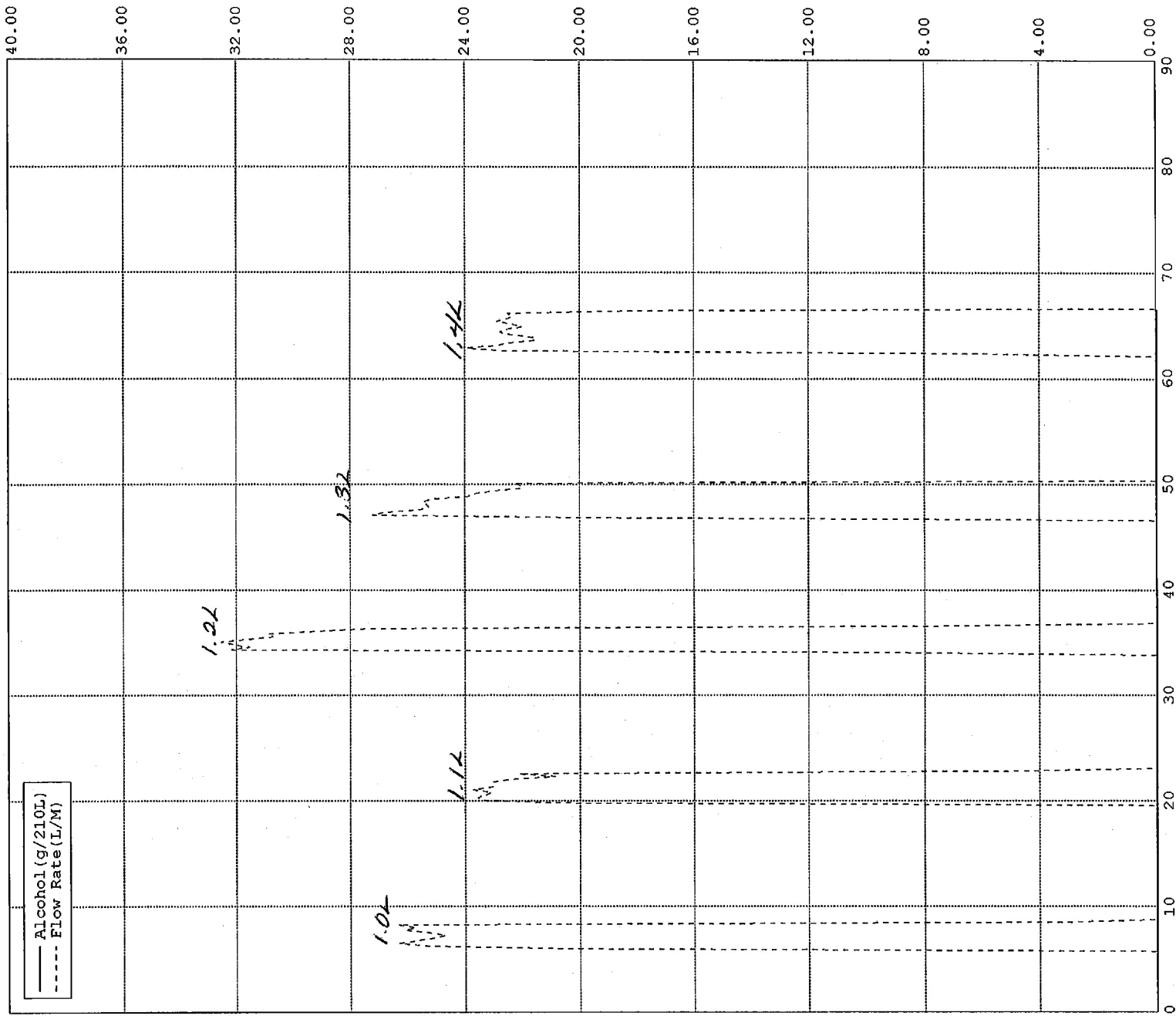
Flow: 1.05 V
Detector: 0.587 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100346

Date: 01/10/2011
Time: 12:16:11

Ca = 0.1000
CAL = 0.982534 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0041 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.1017 0.0500 <= Xq < 0.2000
a21 = 1.192370 1.050 <= a21 < 1.300
a31 = 0.409200 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100346

Date: 03/14/2011
 Time: 07:51:06

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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

DEPT/AGENCY:
 AAA1

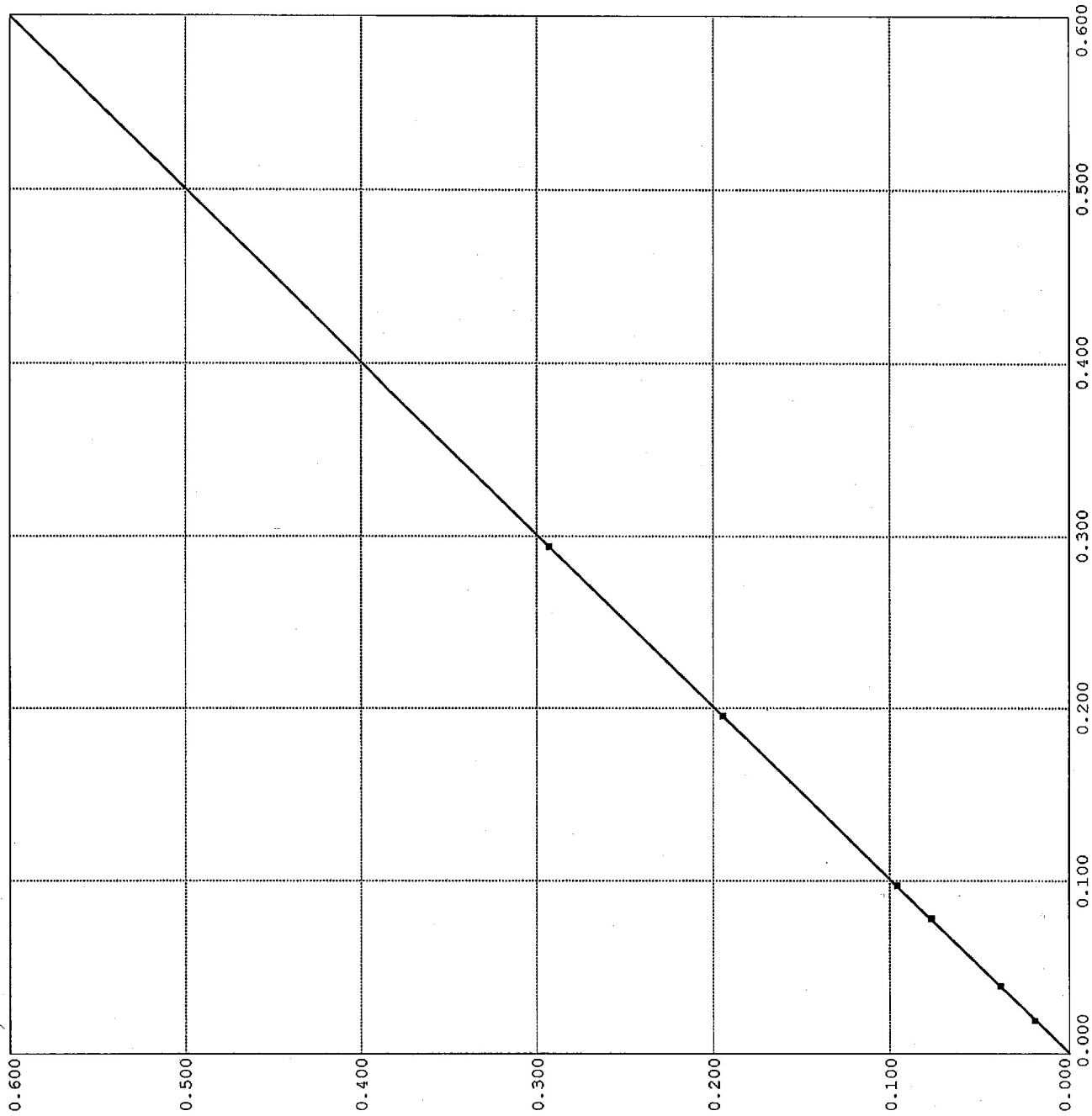
CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.26: 0.078
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	07:52
BLANK TEST	0.000	07:52
INTERNAL STANDARD	VERIFIED	07:52
EXTERNAL STANDARD	0.078	07:52
BLANK TEST	0.000	07:53
SUBJECT SAMPLE	0.000	07:55
BLANK TEST	0.000	07:55
EXTERNAL STANDARD	0.078	07:56
BLANK TEST	0.000	07:57

CS



LINEARITY CHECK

 Alaska Department of Public Safety
 DATAMASTER gmt: 100346

Date: 03/14/2011
 Time: 08:13:34

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.039	0.0388	0.0004
0.078	0.0774	0.0005
0.097	0.0966	0.0005
0.195	0.1956	0.0021
0.293	0.2936	0.0005

SLOPE = 1.001799
 R^2 = 0.999982

CB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100346

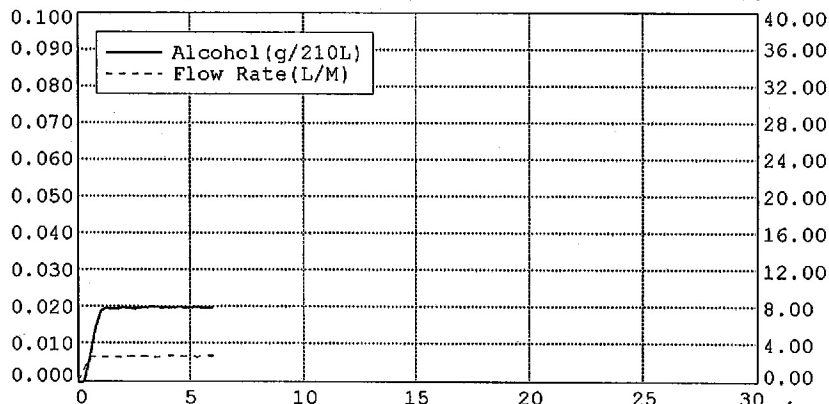
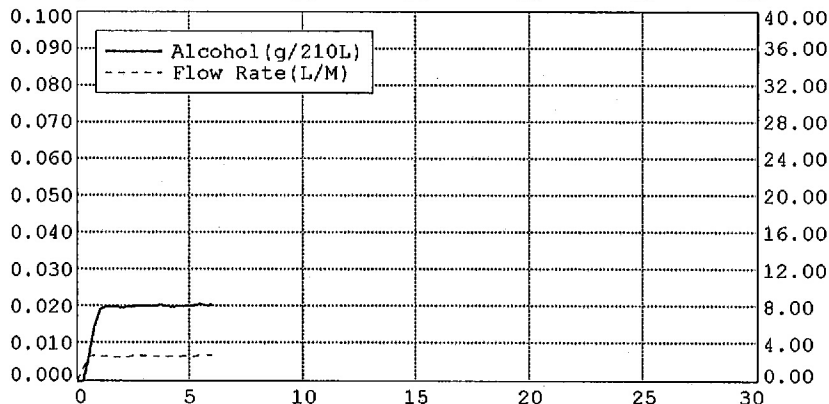
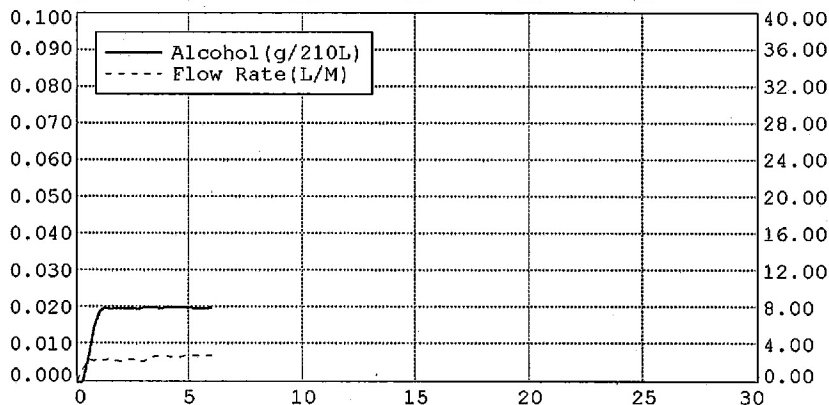
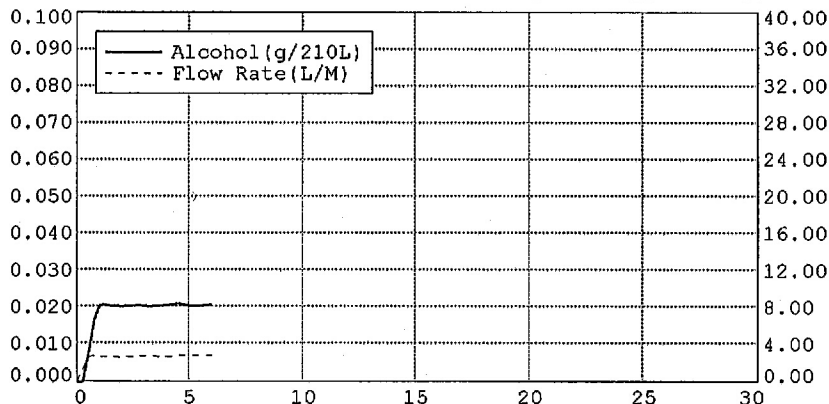
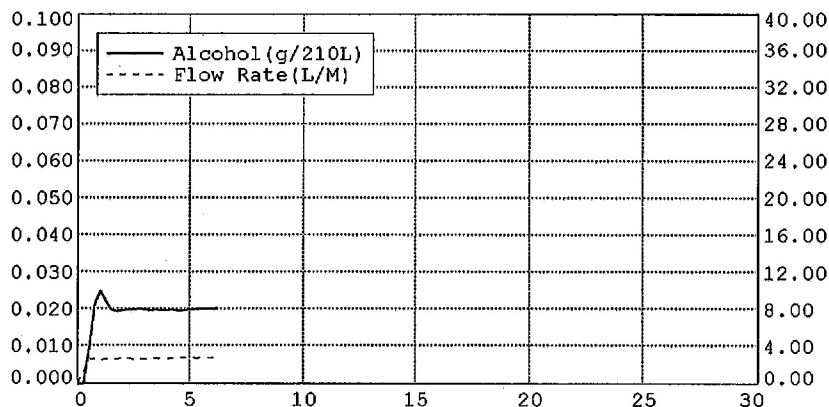
Date: 03/14/2011
Time: 08:13:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.25: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	08:14
INTERNAL STANDARD	VERIFIED	08:14
EXTERNAL STANDARD	0.020	08:14
BLANK TEST	0.000	08:15
EXTERNAL STANDARD	0.020	08:16
BLANK TEST	0.000	08:16
EXTERNAL STANDARD	0.020	08:17
BLANK TEST	0.000	08:18
EXTERNAL STANDARD	0.020	08:18
BLANK TEST	0.000	08:19
EXTERNAL STANDARD	0.020	08:19
BLANK TEST	0.000	08:20

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100346

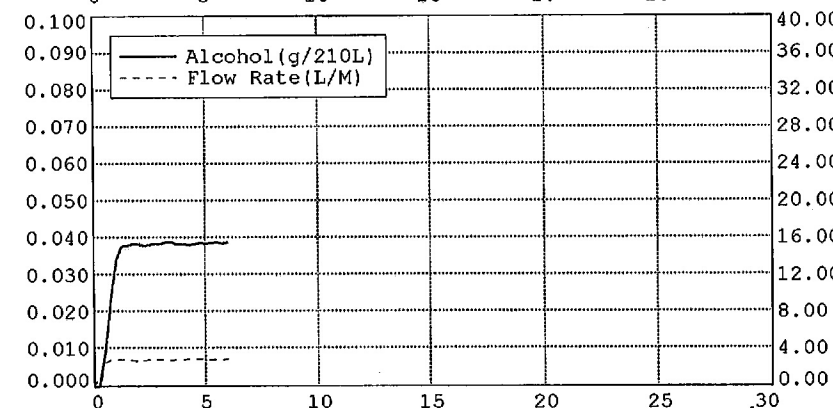
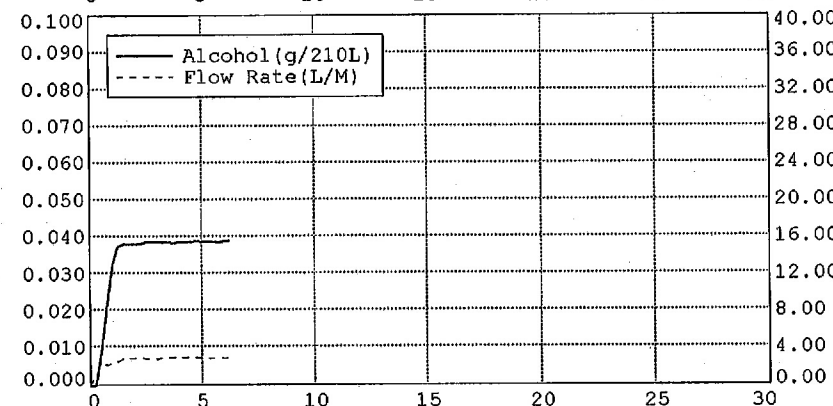
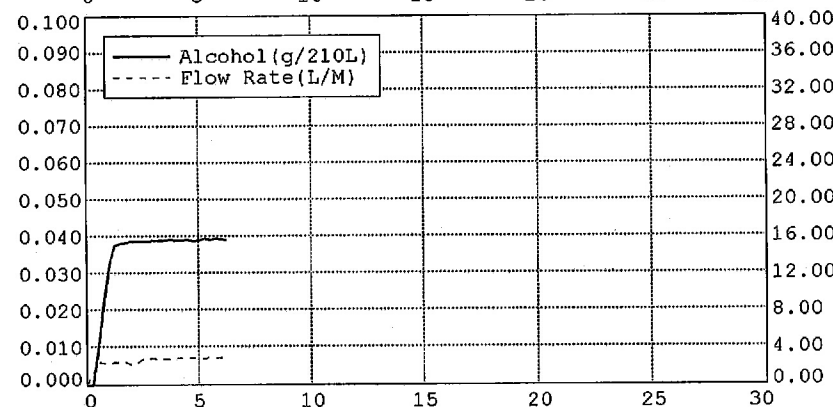
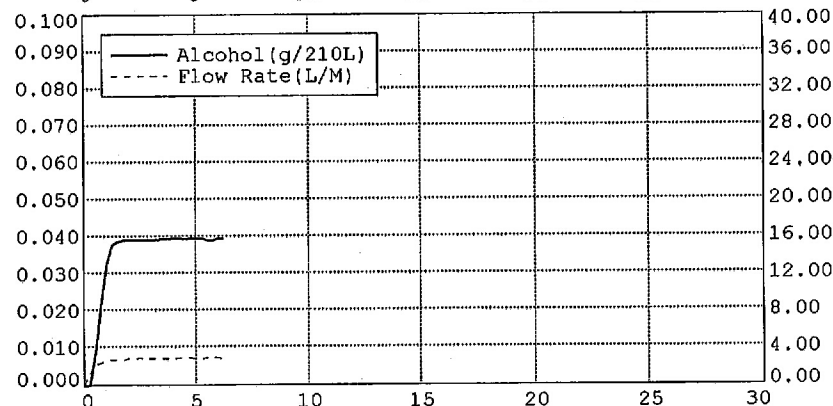
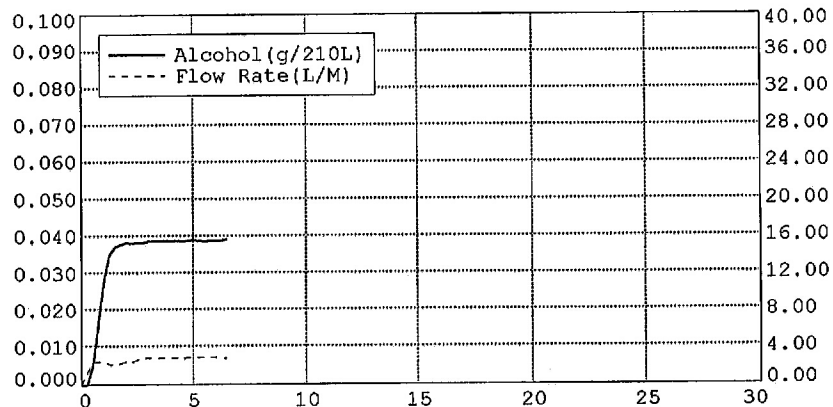
Date: 03/14/2011
Time: 08:24:31

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.26: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	08:27
INTERNAL STANDARD	VERIFIED	08:27
EXTERNAL STANDARD	0.039	08:27
BLANK TEST	0.000	08:28
EXTERNAL STANDARD	0.039	08:28
BLANK TEST	0.000	08:29
EXTERNAL STANDARD	0.039	08:29
BLANK TEST	0.000	08:30
EXTERNAL STANDARD	0.038	08:30
BLANK TEST	0.000	08:31
EXTERNAL STANDARD	0.039	08:31
BLANK TEST	0.000	08:32

Average = 0.0388
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100346

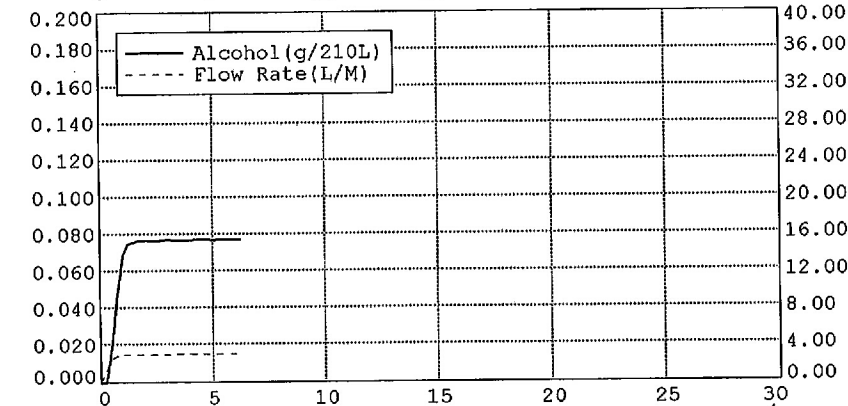
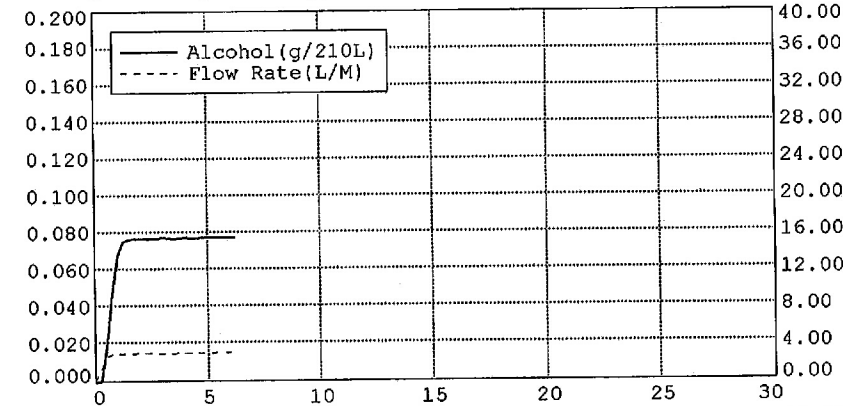
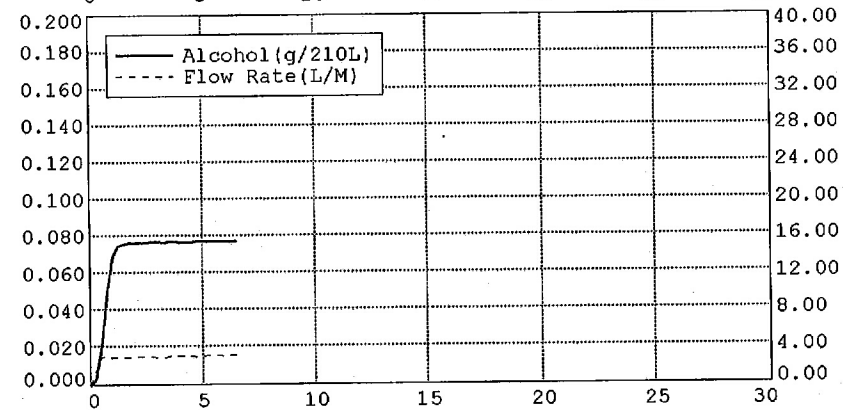
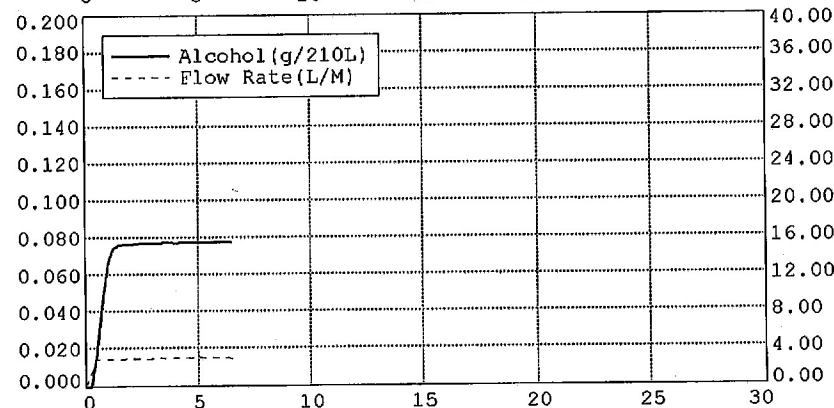
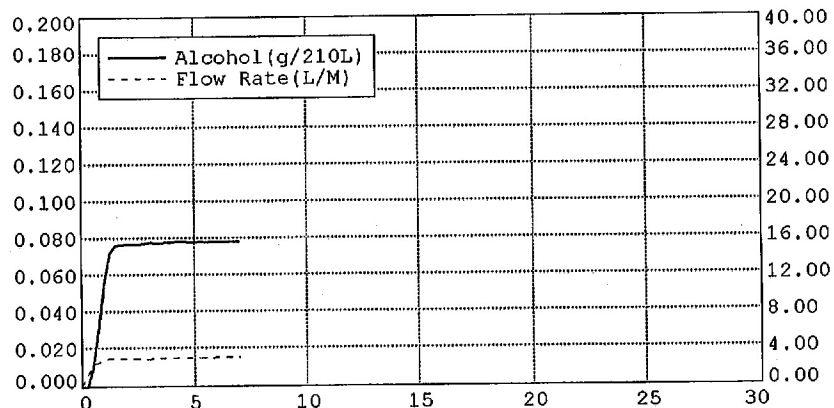
Date: 03/14/2011
Time: 08:33:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.26: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	08:34
INTERNAL STANDARD	VERIFIED	08:34
EXTERNAL STANDARD	0.078	08:35
BLANK TEST	0.000	08:36
EXTERNAL STANDARD	0.078	08:36
BLANK TEST	0.000	08:37
EXTERNAL STANDARD	0.077	08:37
BLANK TEST	0.000	08:38
EXTERNAL STANDARD	0.077	08:38
BLANK TEST	0.000	08:39
EXTERNAL STANDARD	0.077	08:40
BLANK TEST	0.000	08:40

Average = 0.0774
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100346

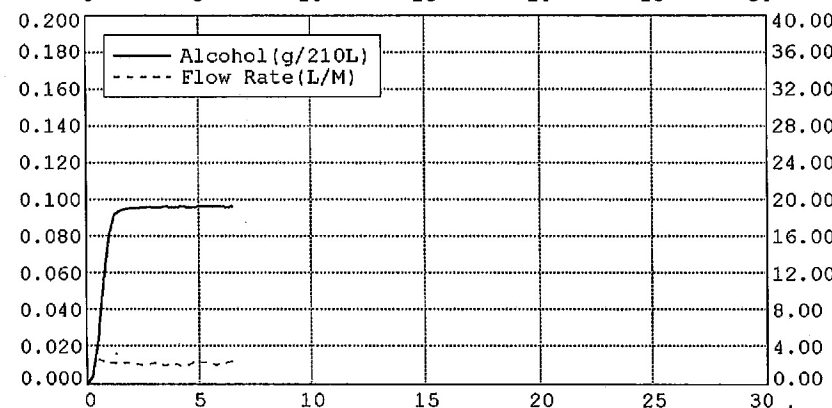
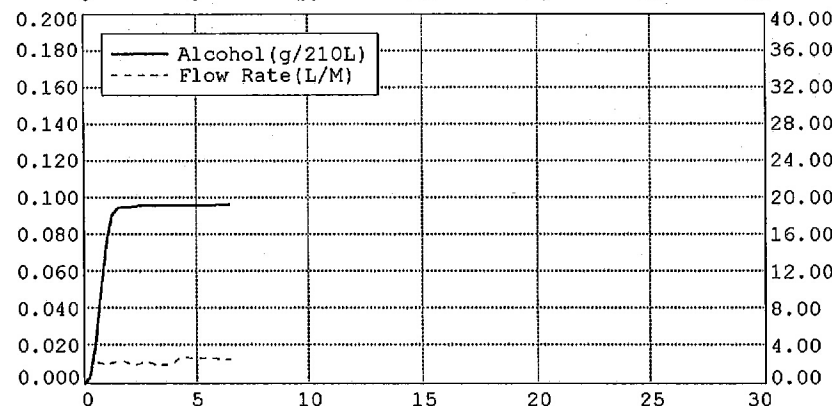
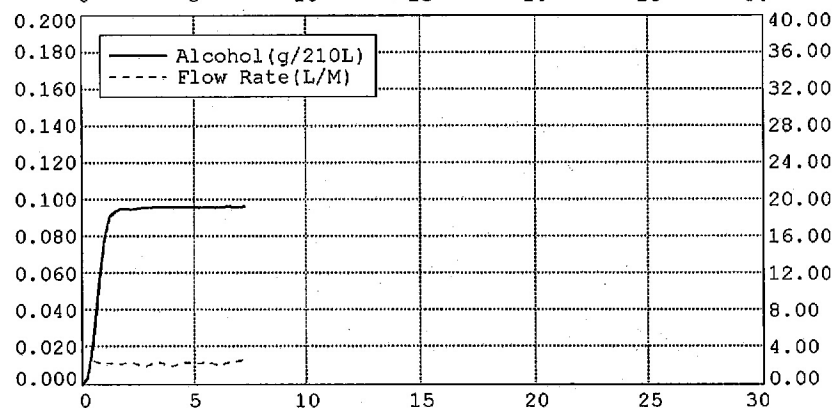
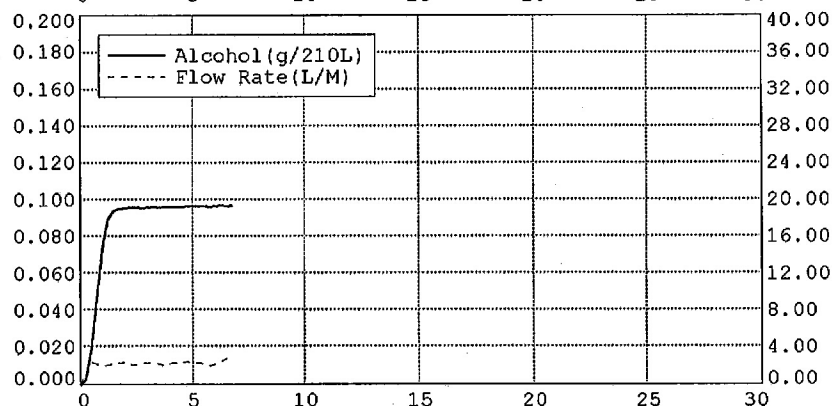
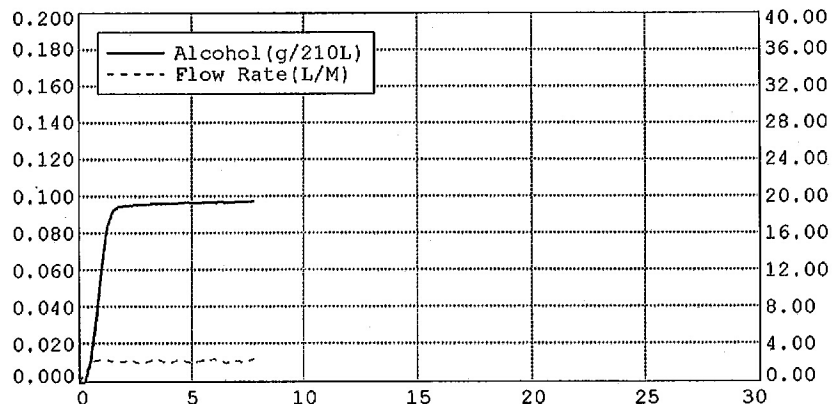
Date: 03/14/2011
Time: 08:41:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.26: 0.097
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:55
INTERNAL STANDARD	VERIFIED	08:56
EXTERNAL STANDARD	0.097	08:56
BLANK TEST	0.000	08:57
EXTERNAL STANDARD	0.097	08:57
BLANK TEST	0.000	08:58
EXTERNAL STANDARD	0.096	08:58
BLANK TEST	0.000	08:59
EXTERNAL STANDARD	0.096	08:59
BLANK TEST	0.000	09:00
EXTERNAL STANDARD	0.097	09:01
BLANK TEST	0.000	09:01

Average = 0.0966
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100346

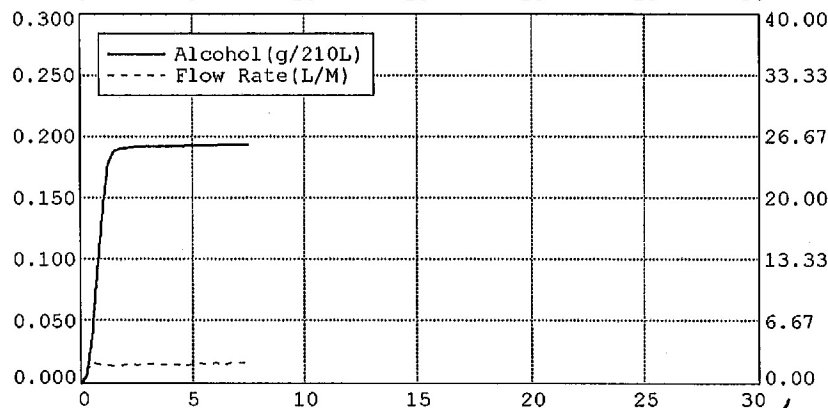
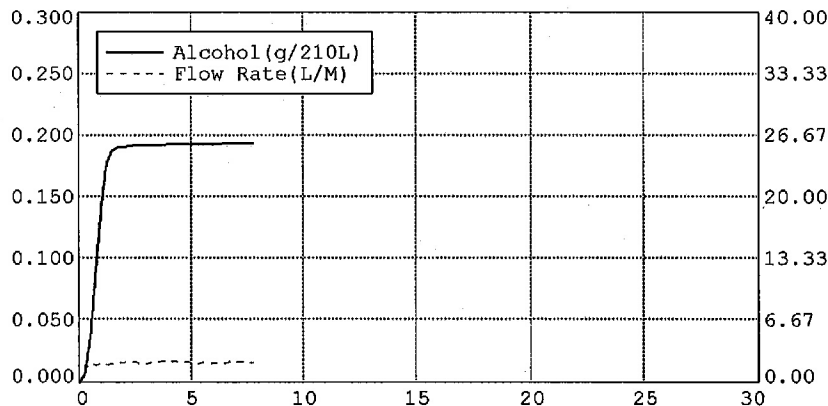
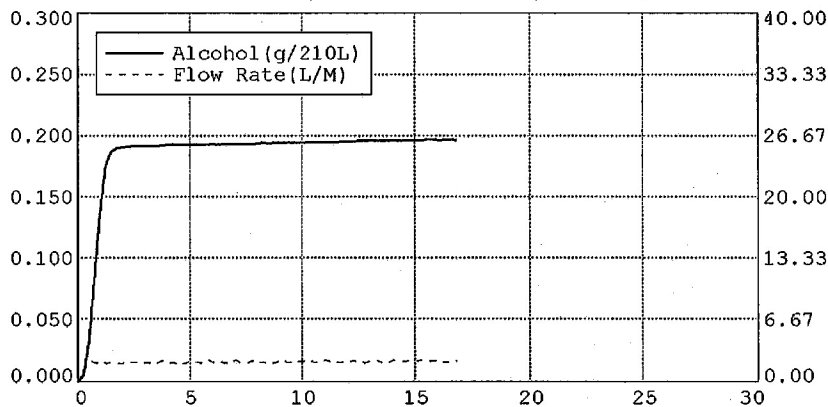
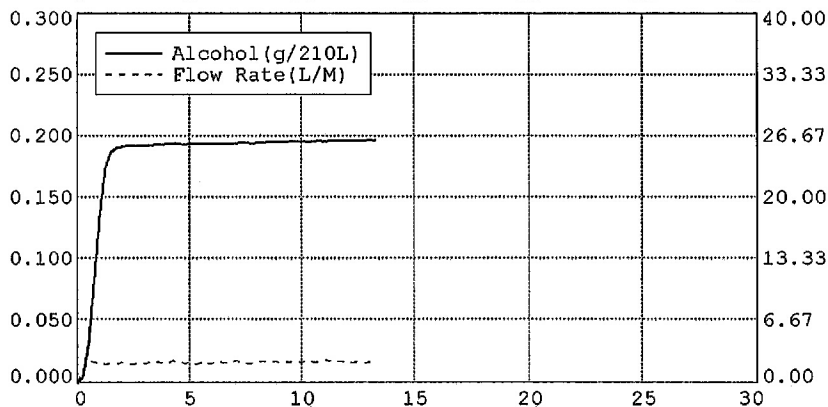
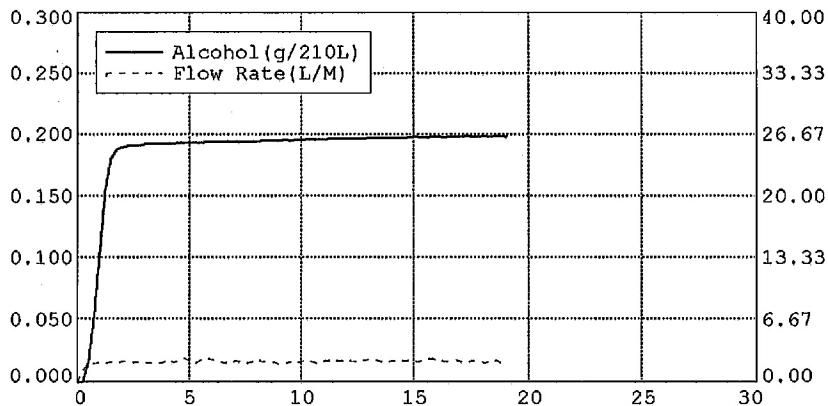
Date: 03/14/2011
Time: 09:05:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.26: 0.195
LOT #: 17610200A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	09:09
INTERNAL STANDARD	VERIFIED	09:09
EXTERNAL STANDARD	0.198	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.196	09:11
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.197	09:12
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.194	09:14
BLANK TEST	0.000	09:15
EXTERNAL STANDARD	0.193	09:15
BLANK TEST	0.000	09:16

Average = 0.1956
Std Dev = 0.0021



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100346

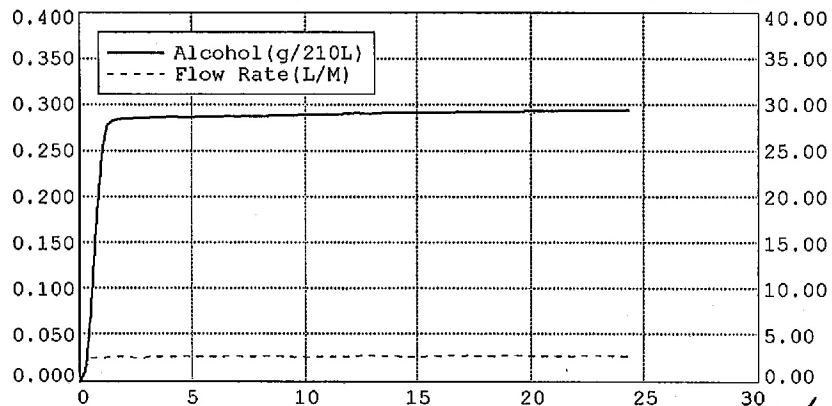
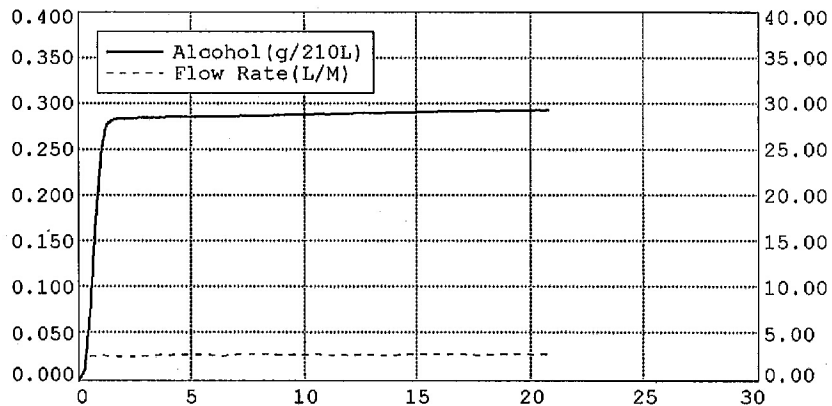
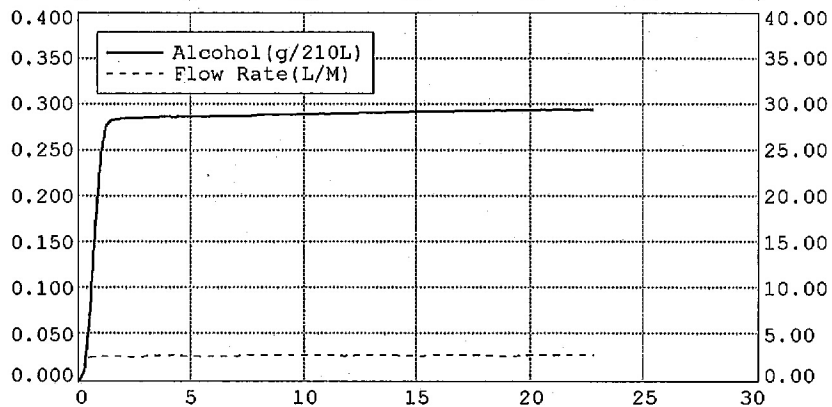
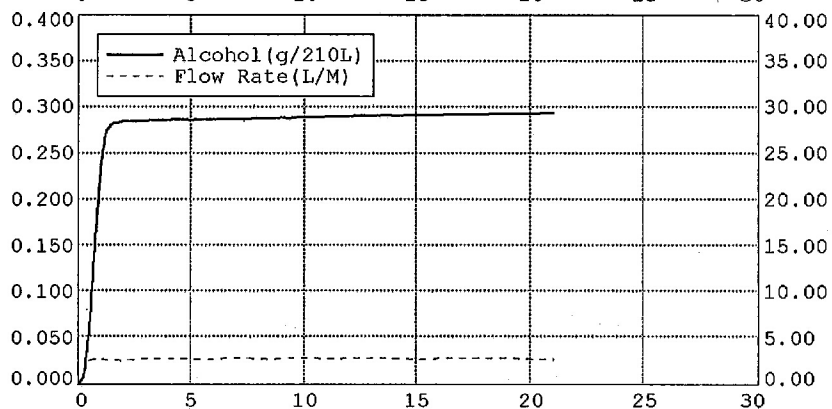
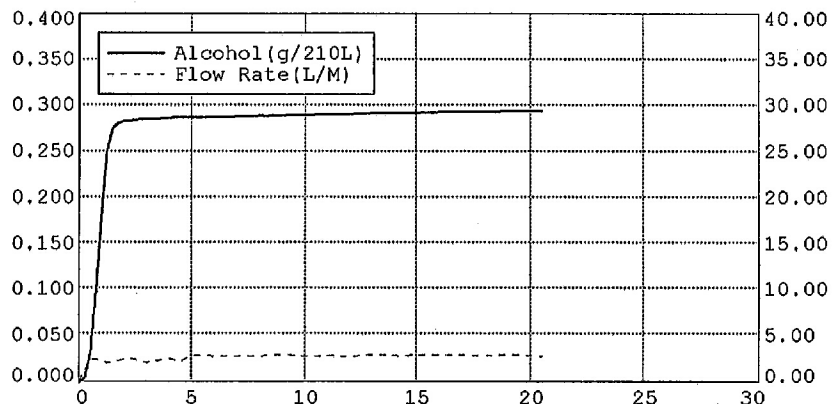
Date: 03/14/2011
Time: 09:25:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.27: 0.293
LOT #: 05611300A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:27
INTERNAL STANDARD	VERIFIED	09:27
EXTERNAL STANDARD	0.294	09:27
BLANK TEST	0.000	09:29
EXTERNAL STANDARD	0.293	09:29
BLANK TEST	0.000	09:30
EXTERNAL STANDARD	0.294	09:31
BLANK TEST	0.000	09:32
EXTERNAL STANDARD	0.293	09:32
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.294	09:34
BLANK TEST	0.000	09:35

Average = 0.2936
Std Dev = 0.0005

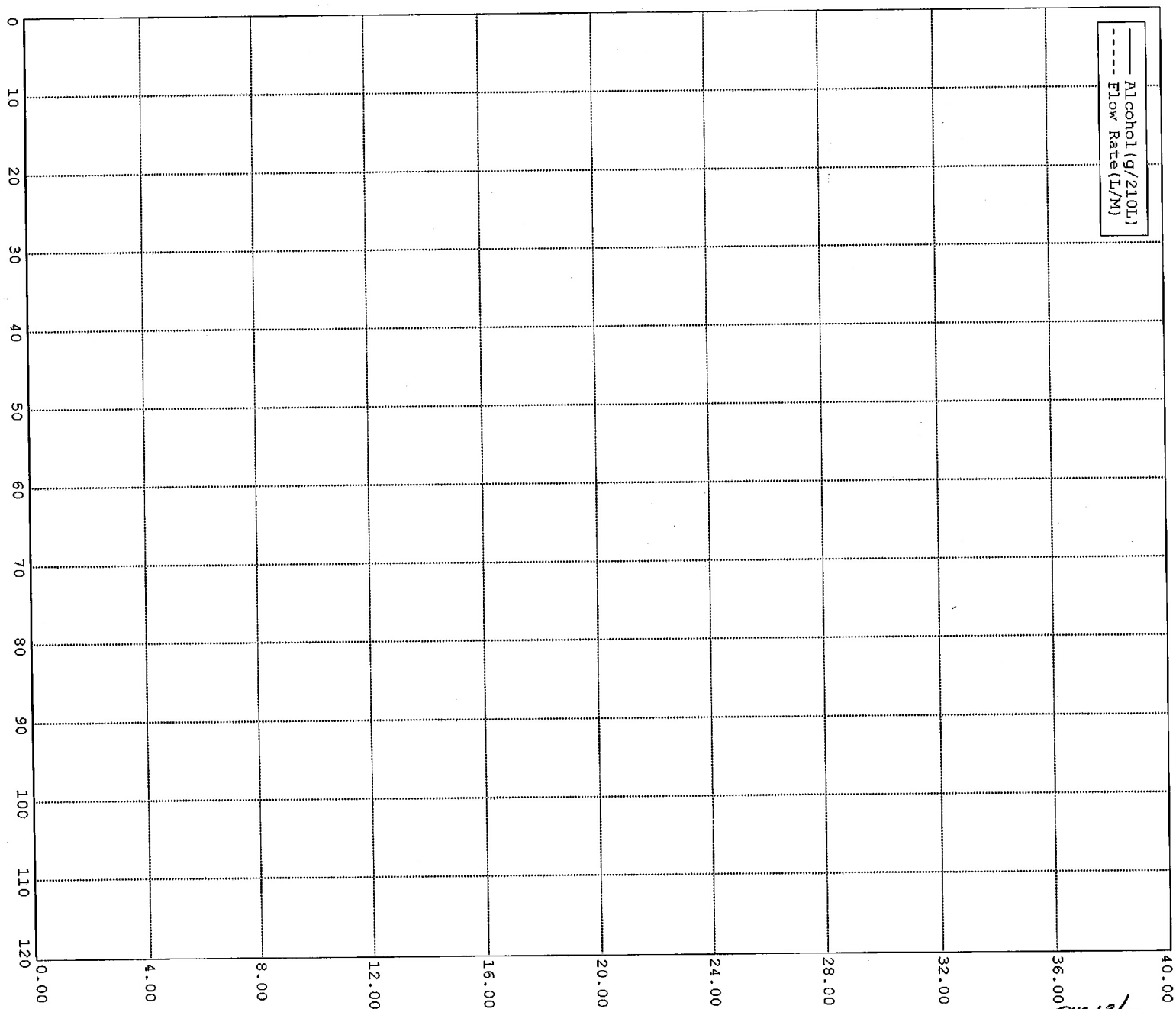


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100346Date: 03/14/2011
Time: 08:03:11SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETEOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAA1
CASE/REPORT: 11-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.26: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012

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

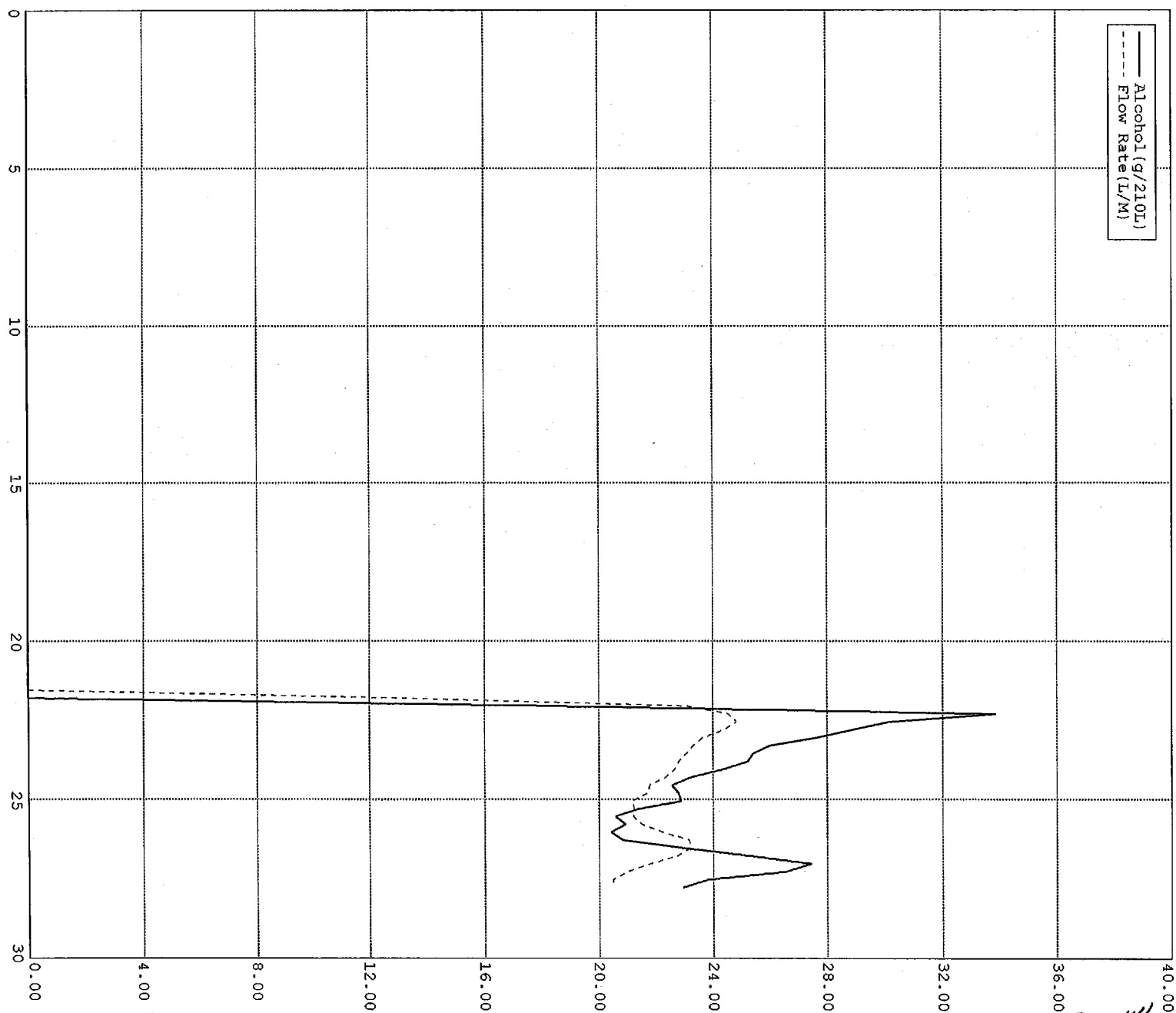
CAB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100346Date: 03/14/2011
Time: 10:22:14SUBJECT NAME:
TEST TEST
LICENSE #: INVALIDOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 11-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.27: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012DIAGNOSTIC CHECK
BLANK TEST PASSED 10:24
INTERNAL STANDARD VERIFIED 10:25
EXTERNAL STANDARD 0.078 10:25
BLANK TEST 0.000 10:26
SUBJECT SAMPLE Invalid 10:26

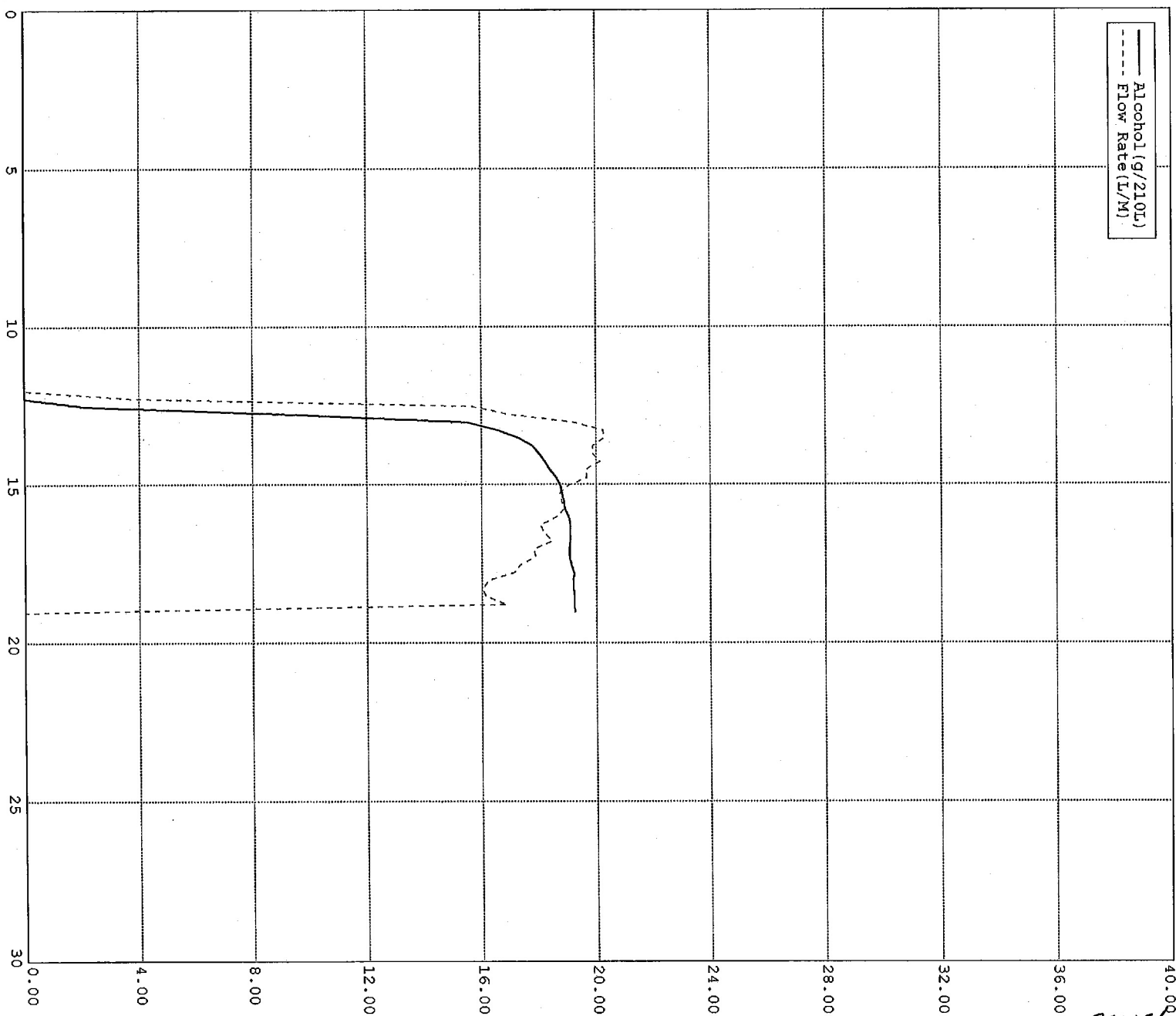
C03



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100346Date: 03/14/2011
Time: 10:46:32SUBJECT NAME:
TEST TEST
LICENSE #: INTF - 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 29.29: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	10:48
BLANK TEST	0.000	10:48
INTERNAL STANDARD	VERIFIED	10:48
EXTERNAL STANDARD	0.077	10:48
BLANK TEST	0.000	10:49
SUBJECT SAMPLE	INTERFERENCE	10:49

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

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100346

Date: 03/14/2011

Time: 10:51:58

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

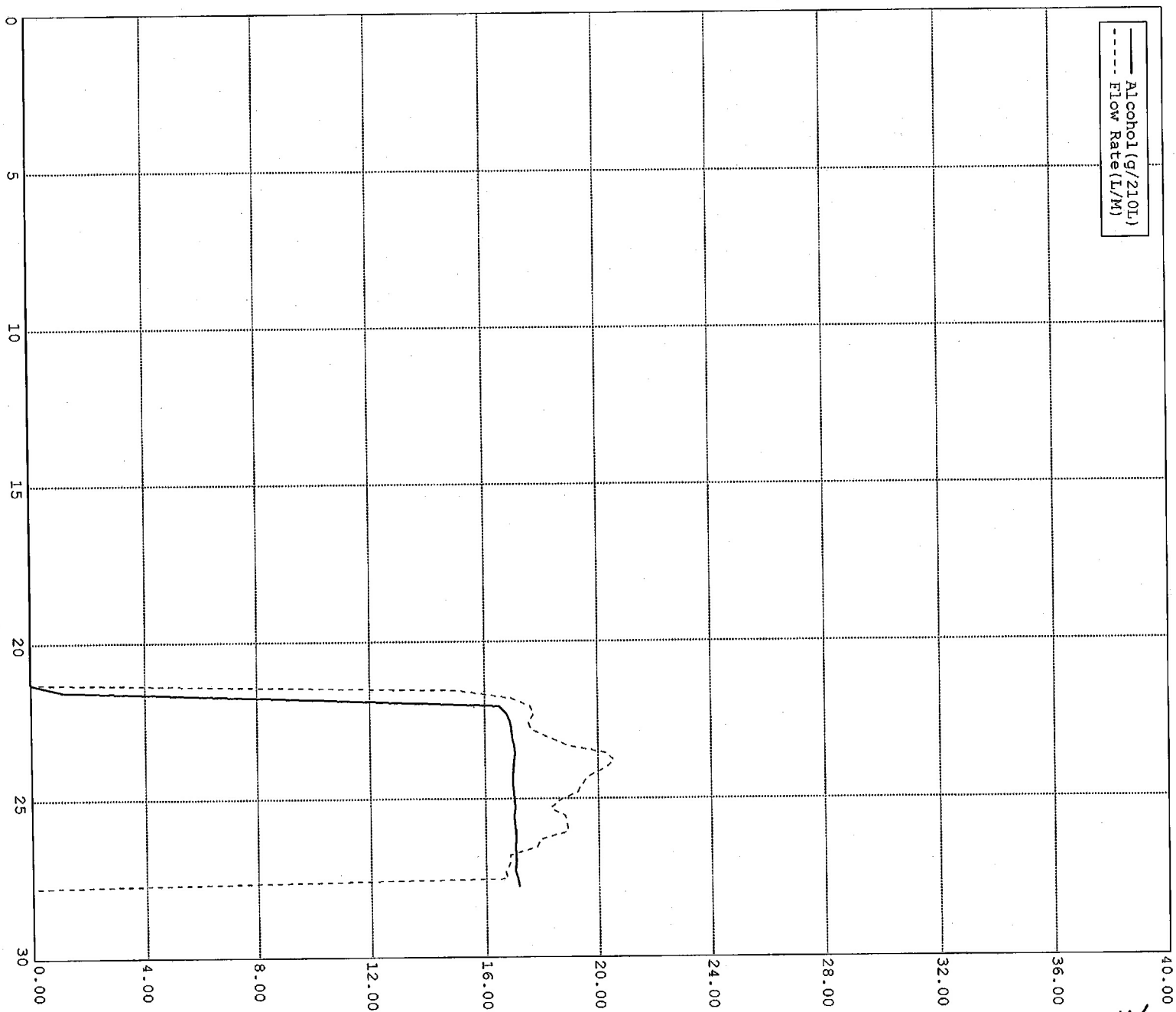
TARGET AT 29.29: 0.078

LOT #: 33609080A1

EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	10:53
BLANK TEST	0.000	10:53
INTERNAL STANDARD	VERIFIED	10:53
EXTERNAL STANDARD	0.077	10:53
BLANK TEST	0.000	10:54
SUBJECT SAMPLE	INTERFERENCE	10:55

CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100346

Date: 03/14/2011
Time: 10:29:59

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

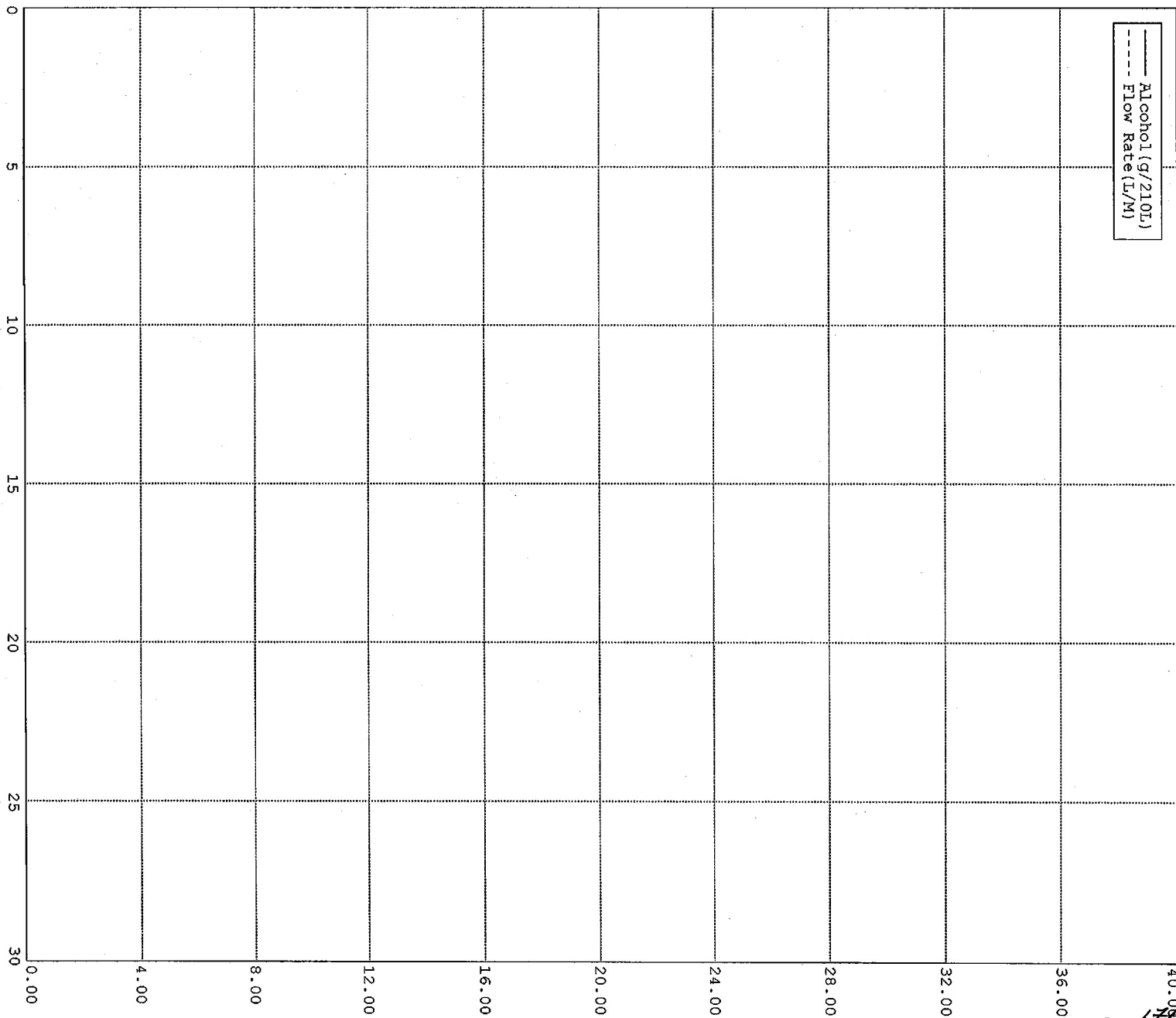
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.28: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK
BLANK TEST PASSED 10:34
INTERNAL STANDARD VERIFIED 10:35
EXTERNAL STANDARD 0.077 10:35
BLANK TEST 0.000 10:36

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100346

Date: 03/14/2011
 Time: 11:35:56

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON-DRINKING

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

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.30: 0.078
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	11:37
BLANK TEST	0.000	11:37
INTERNAL STANDARD	VERIFIED	11:37
EXTERNAL STANDARD	0.078	11:37
BLANK TEST	0.000	11:38
SUBJECT SAMPLE	0.000	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.077	11:39
BLANK TEST	0.000	11:40

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

