

	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 # 100371Analyst 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 2/1/13ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 2/1/13iii. 0.080g/210L Mnf ILMO Lot 33609080A1 Exp 1/1/2012iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13v. 0.200g/210L Mnf ILMO Lot 05611200A3 Exp 3/1/13vi. 0.300g/210L Mnf ILMO Lot 16210300A3 Exp 7/1/12

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: 100371

Date: 03/14/2011
Time: 19:37:13

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO

Flow Rate = 3.510 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: 100371

Date: 03/14/2011

Time: 7:45 PM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 45.8°C

Current Barometer 29.1 in

Volume (Ltr) 1.49

Settings

Lamp: 2.20 V

Bias: 79 V

Cooler: 1.74 V

Chopper: 533 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.619 V

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CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 01/13/2011

Time: 16:14:23

Ca = 0.1000

CAL = 0.975816 0.800 <= CAL < 1.200

b1 = 0.0004 0.0000 <= b1 < 0.0040

b2 = 0.0047 0.0010 <= b2 < 0.0100

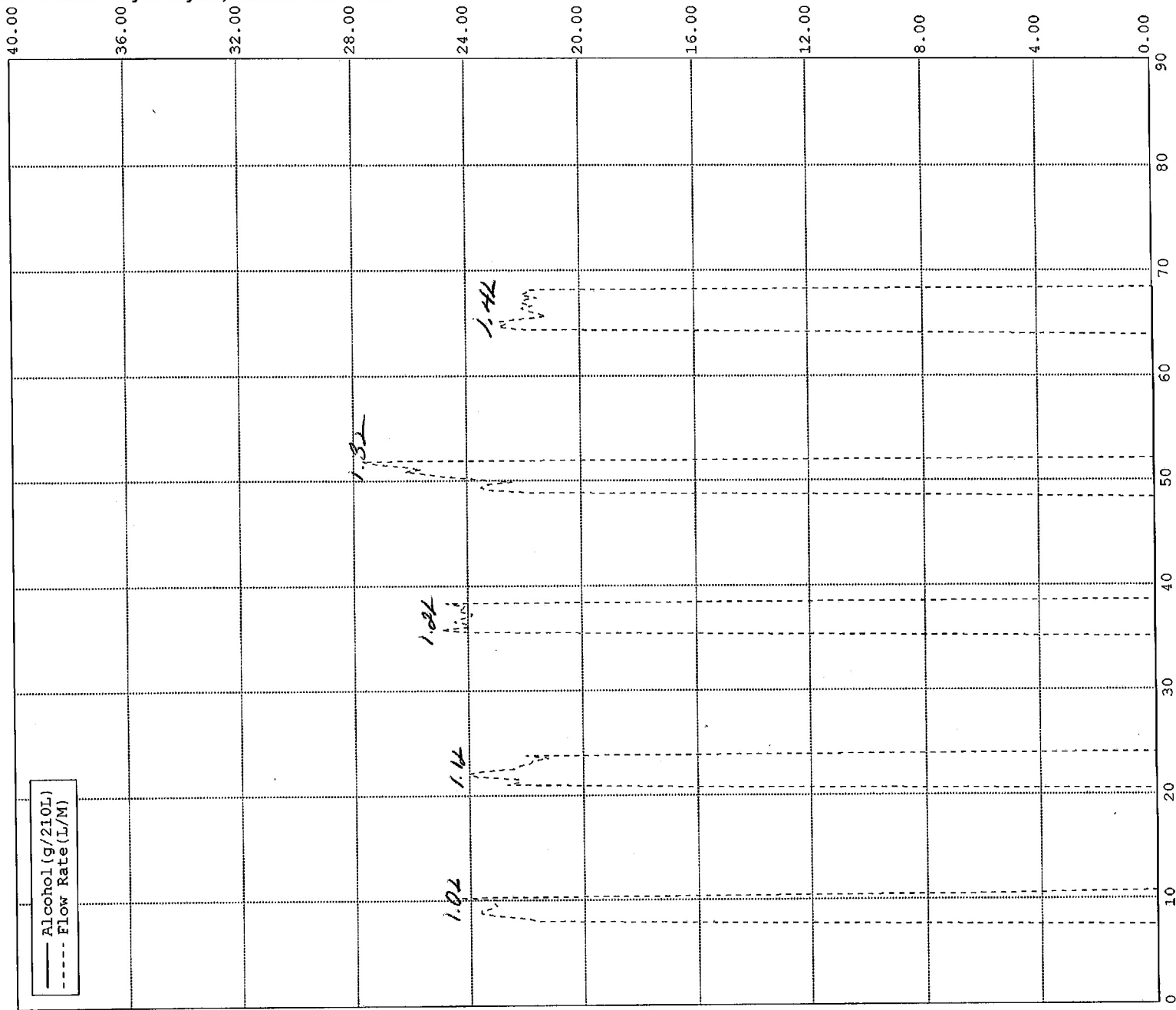
b3 = 0.0005 0.0000 <= b3 < 0.0040

Xq = 0.0902 0.0500 <= Xq < 0.2000

a21 = 1.192969 1.050 <= a21 < 1.300

a31 = 0.495067 0.300 <= a31 < 0.800

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SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100371

Date: 03/15/2011
Time: 10:21:49

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

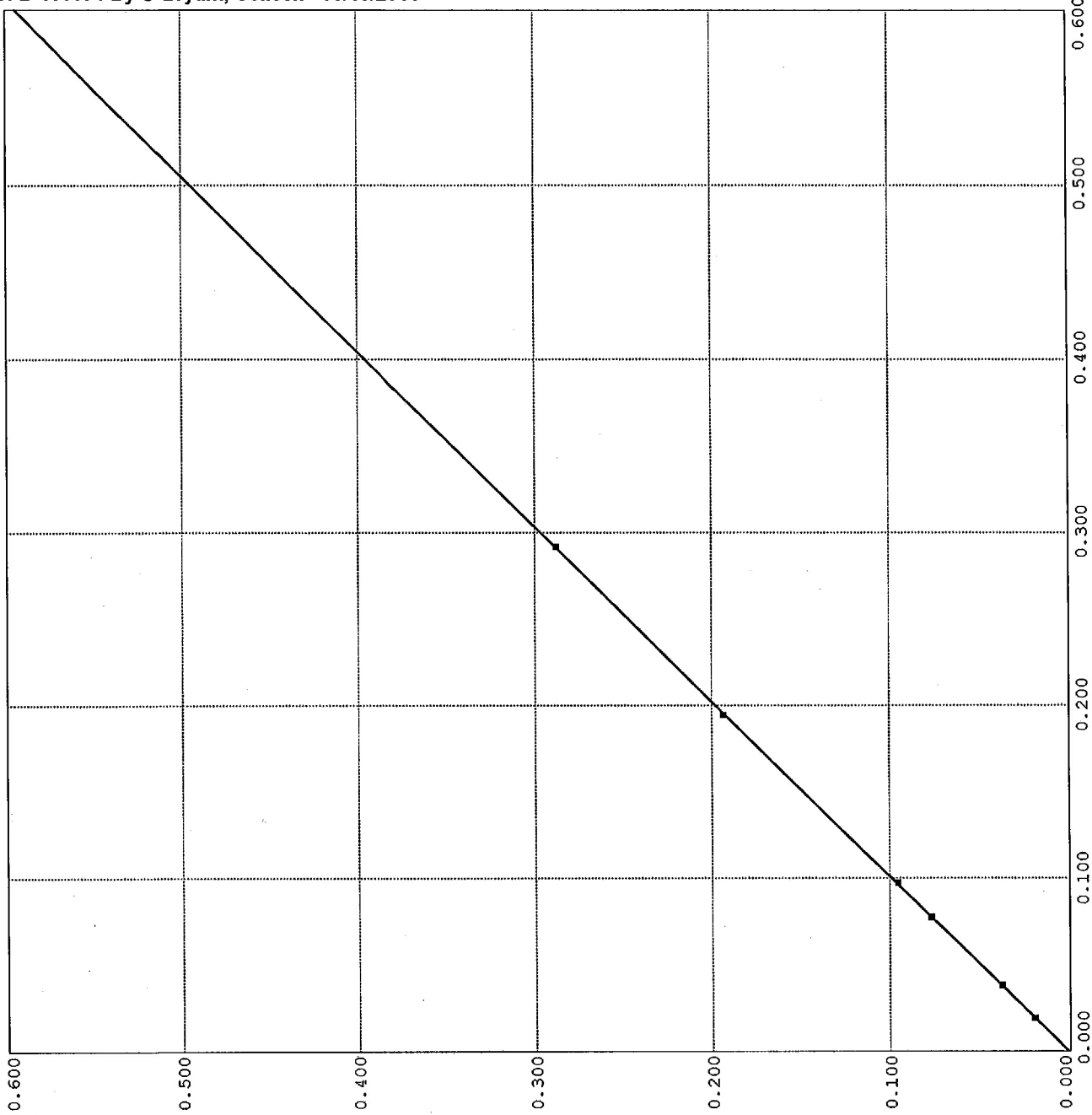
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.05: 0.077
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	10:23
BLANK TEST	0.000	10:23
INTERNAL STANDARD	VERIFIED	10:23
EXTERNAL STANDARD	0.078	10:23
BLANK TEST	0.000	10:24
SUBJECT SAMPLE	0.000	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.077	10:26
BLANK TEST	0.000	10:27

CB

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LINEARITY CHECK

 Alaska Department of Public Safety
 DATAMASTER dmt: 100371

Date: 03/15/2011
 Time: 10:29:27

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0004
0.038	0.0386	0.0005
0.077	0.0776	0.0005
0.097	0.0964	0.0009
0.194	0.1944	0.0005
0.291	0.2886	0.0013

SLOPE = 0.989571
 R² = 0.999976

CB

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LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100371

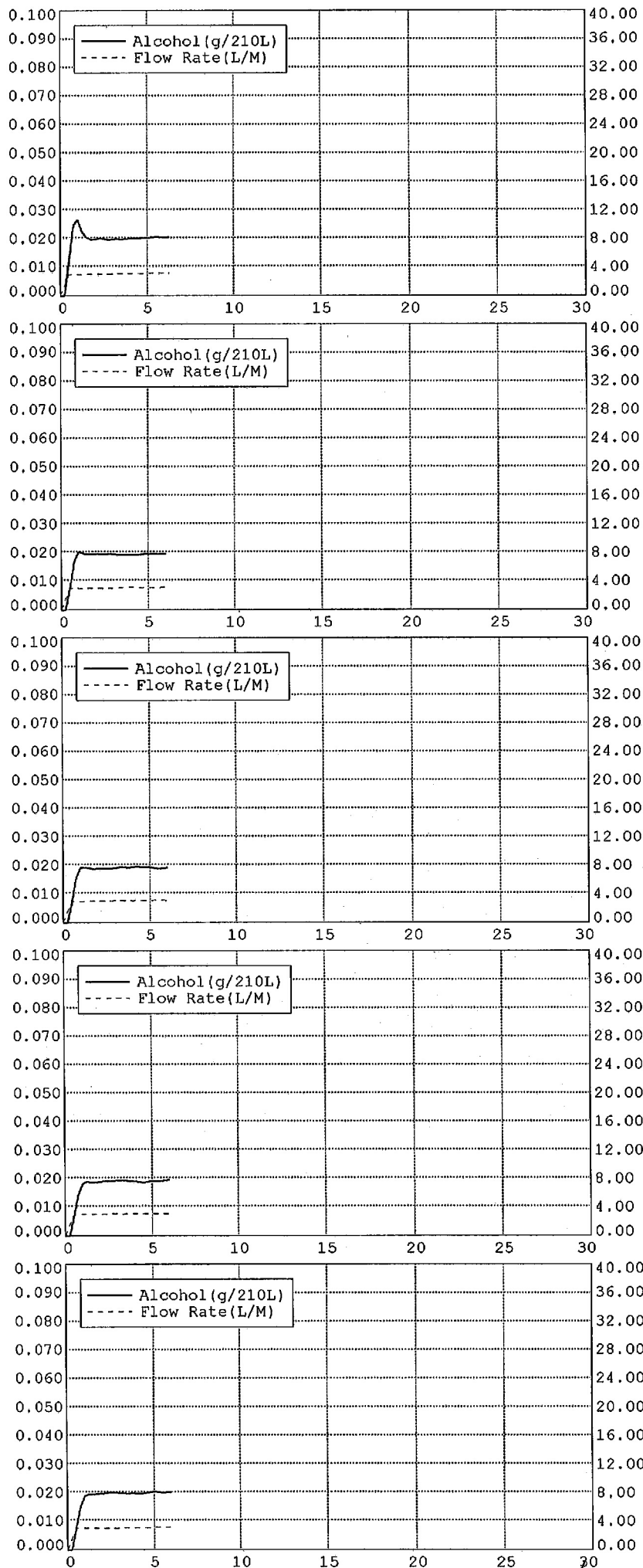
Date: 03/15/2011
Time: 10:29:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.06: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:31
INTERNAL STANDARD	VERIFIED	10:31
EXTERNAL STANDARD	0.021	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.020	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.020	10:34
BLANK TEST	0.000	10:34
EXTERNAL STANDARD	0.020	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.020	10:36
BLANK TEST	0.000	10:37

Average = 0.0202
Std Dev = 0.0004



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LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100371

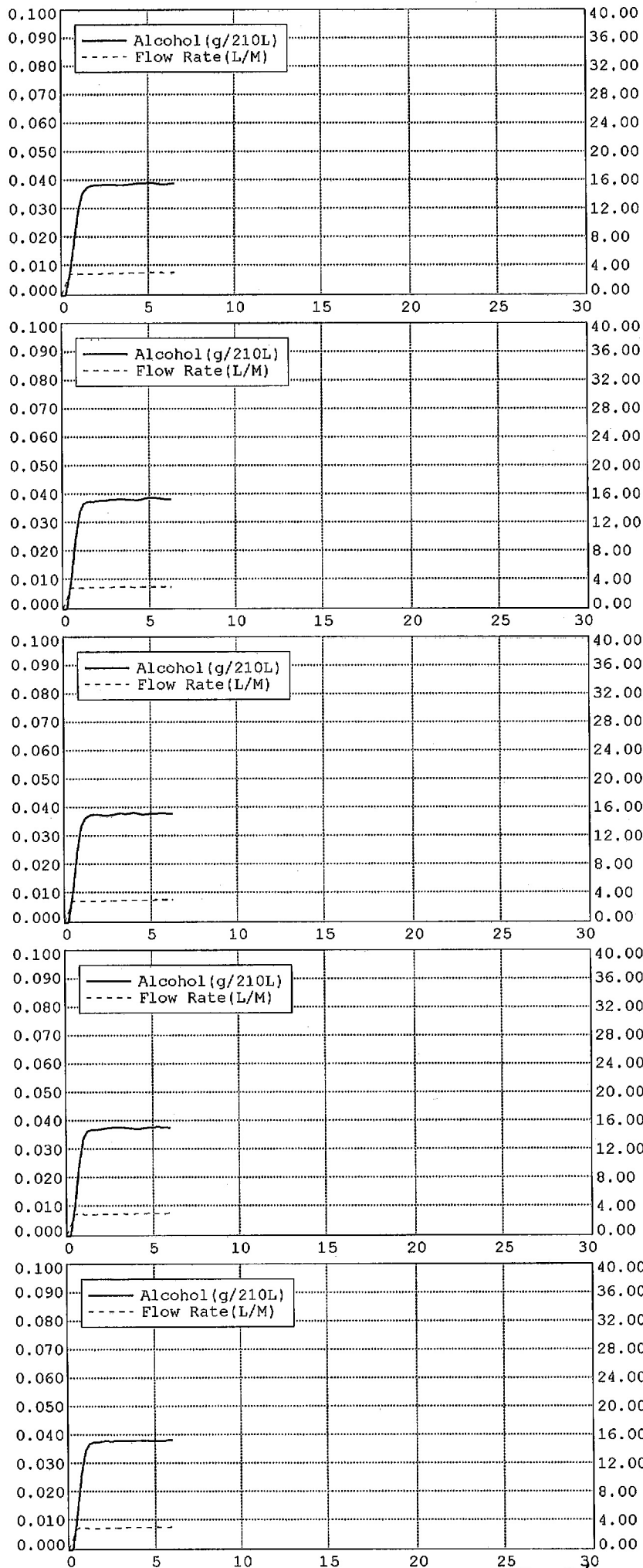
Date: 03/15/2011
Time: 10:40:10

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.05: 0.038
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:42
INTERNAL STANDARD	VERIFIED	10:42
EXTERNAL STANDARD	0.039	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.039	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.038	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.038	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.039	10:47
BLANK TEST	0.000	10:48

Average = 0.0386
Std Dev = 0.0005



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LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100371

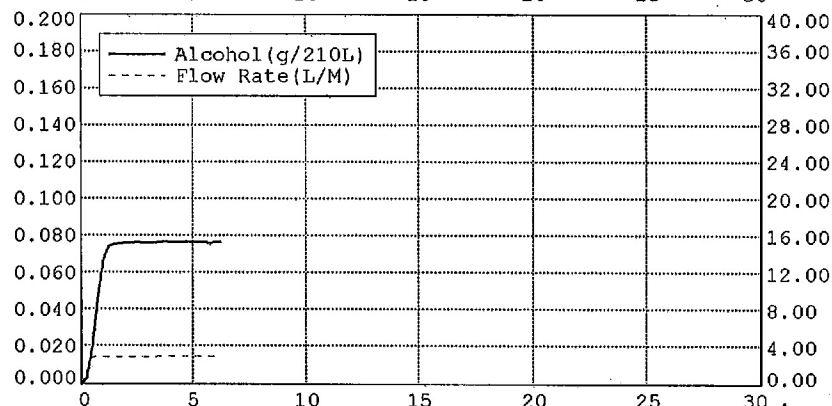
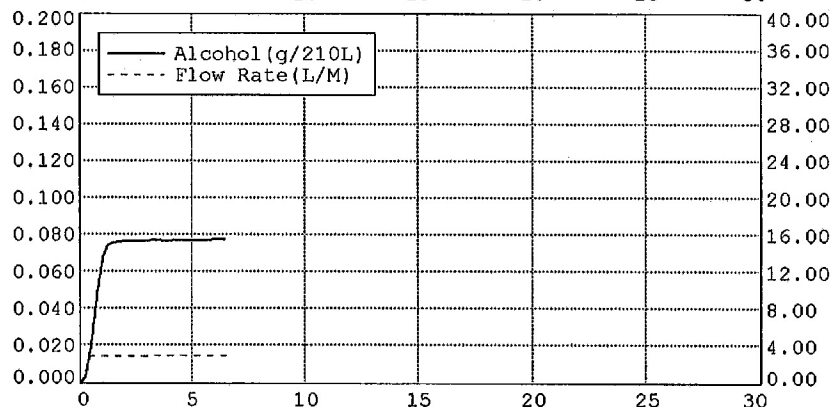
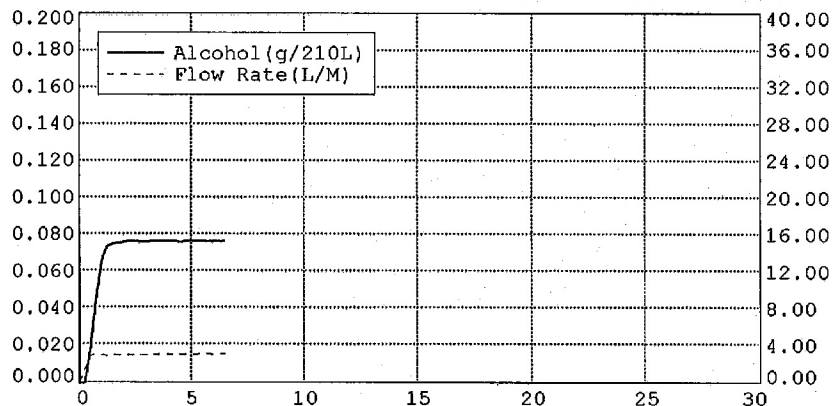
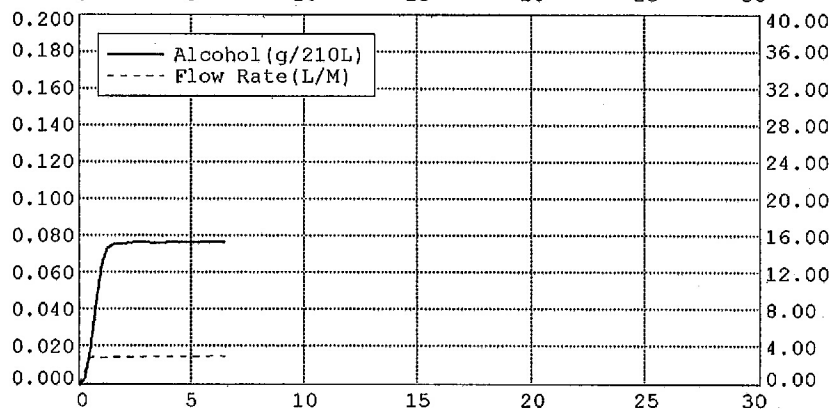
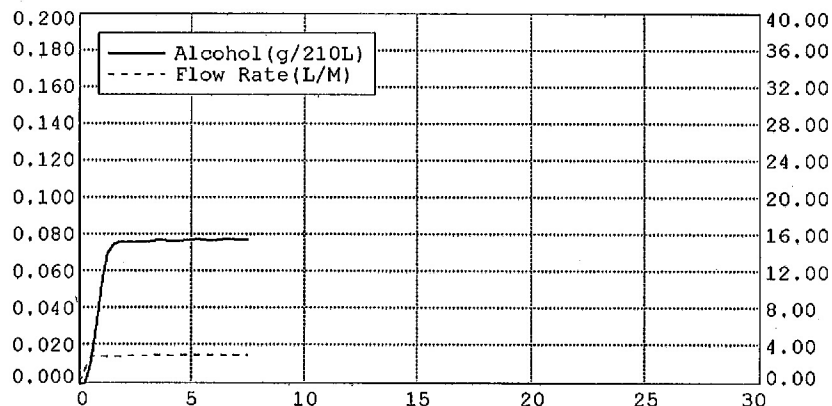
Date: 03/15/2011
Time: 10:48:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.06: 0.077
LOT #: 33609080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	10:50
INTERNAL STANDARD	VERIFIED	10:50
EXTERNAL STANDARD	0.078	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.078	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.077	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.078	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.077	10:55
BLANK TEST	0.000	10:55

Average = 0.0776
Std Dev = 0.0005



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LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100371

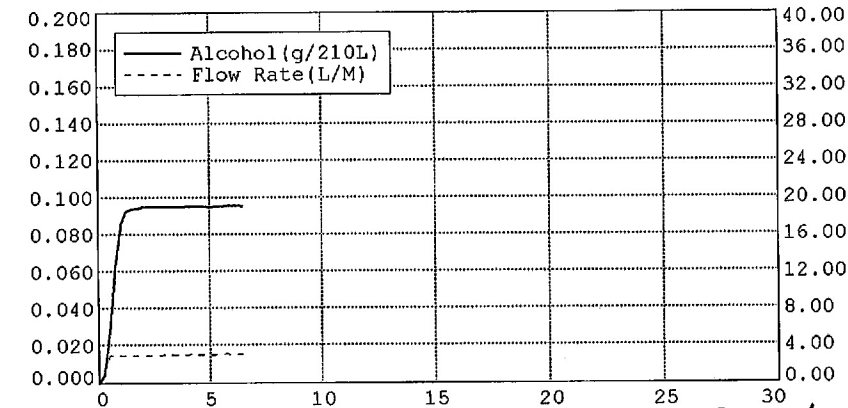
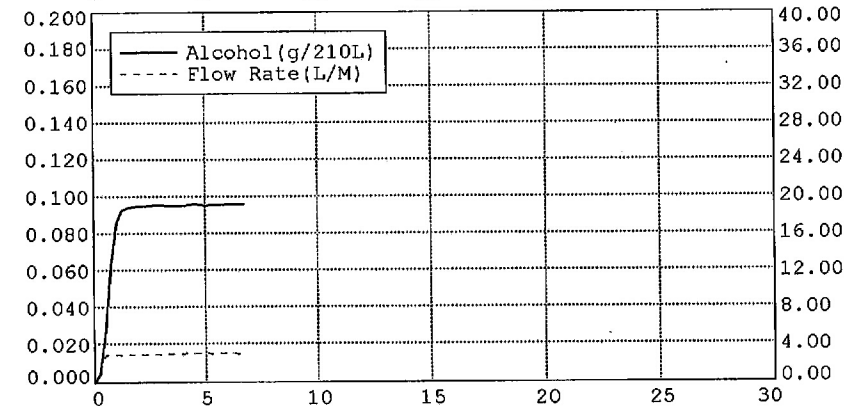
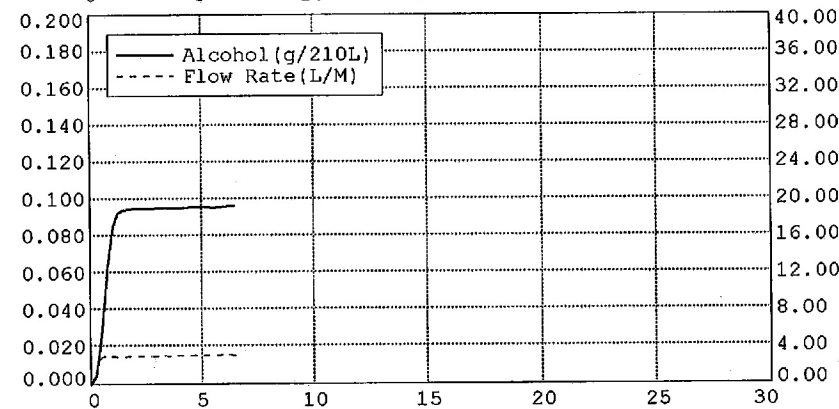
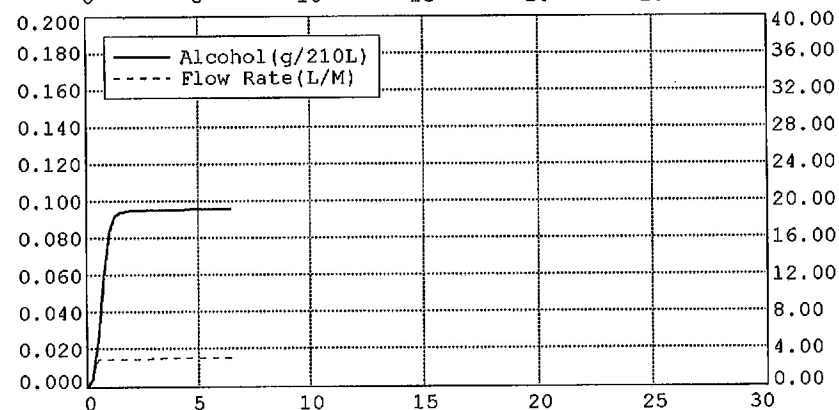
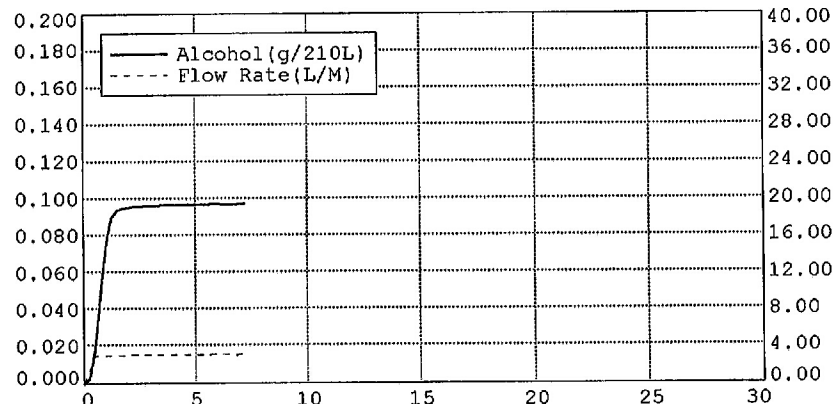
Date: 03/15/2011
Time: 10:56:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.06: 0.097
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:58
INTERNAL STANDARD	VERIFIED	10:58
EXTERNAL STANDARD	0.098	10:58
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.096	11:00
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.096	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.096	11:02
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.096	11:03
BLANK TEST	0.000	11:04

Average = 0.0964
Std Dev = 0.0009



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LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100371

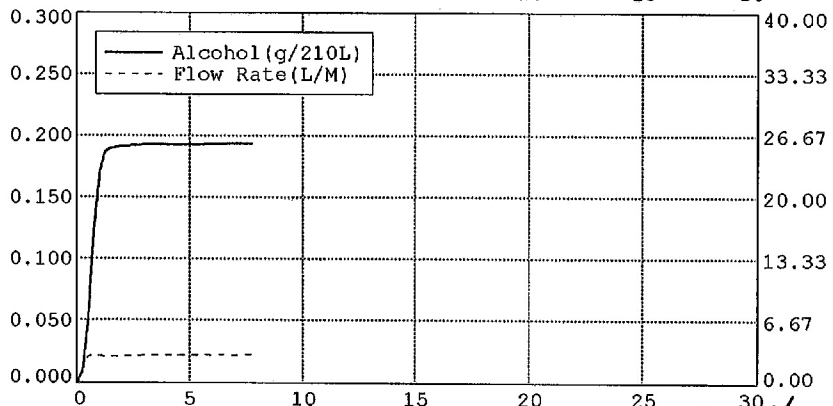
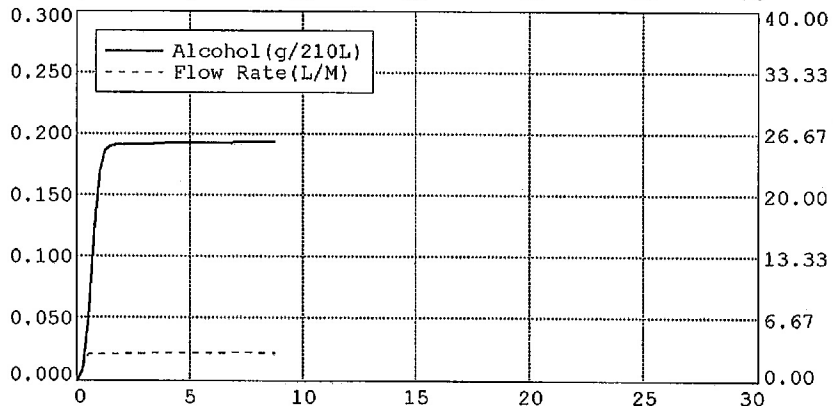
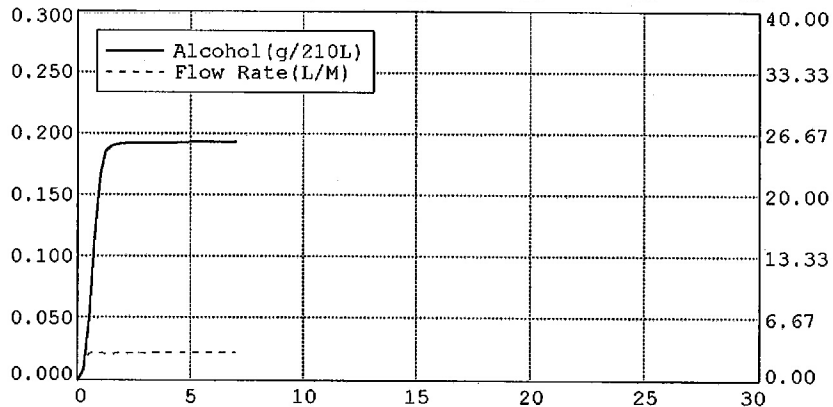
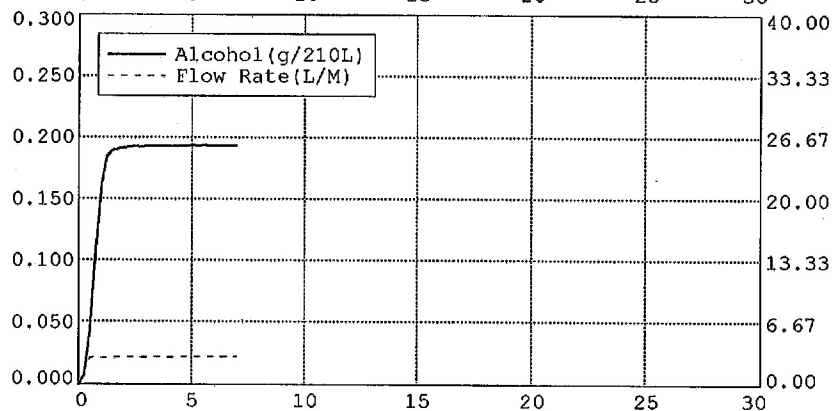
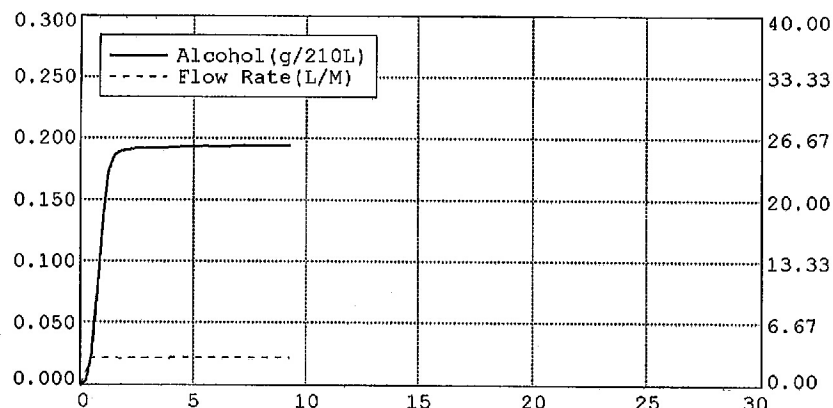
Date: 03/15/2011
Time: 11:05:11

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.05: 0.194
LOT #: 05611200A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:07
INTERNAL STANDARD	VERIFIED	11:07
EXTERNAL STANDARD	0.195	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.194	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.194	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.195	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.194	11:12
BLANK TEST	0.000	11:13

Average = 0.1944
Std Dev = 0.0005



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LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100371

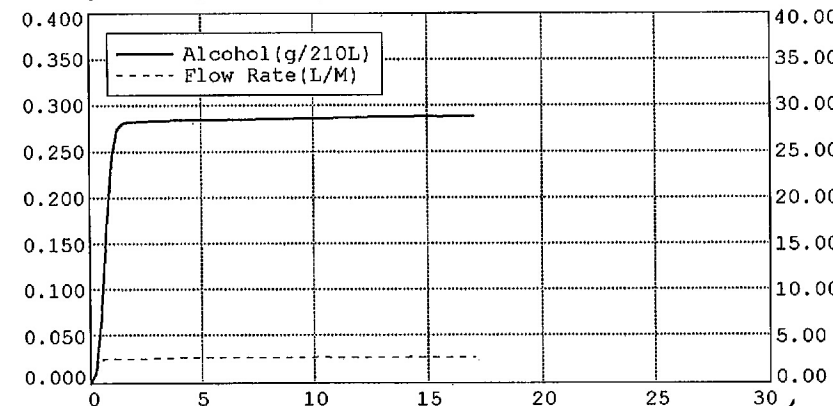
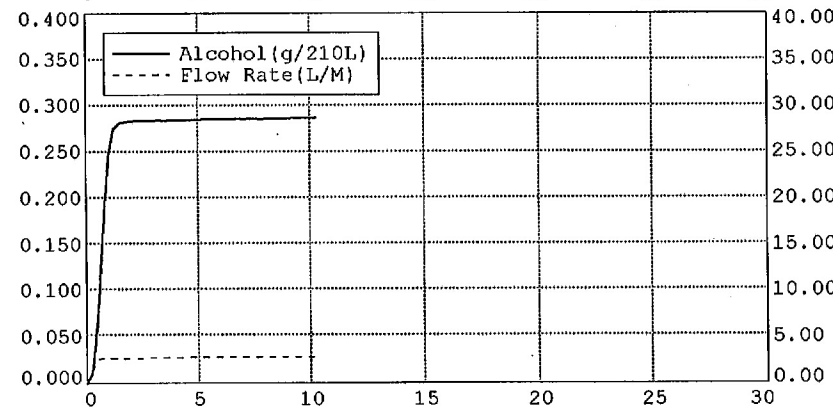
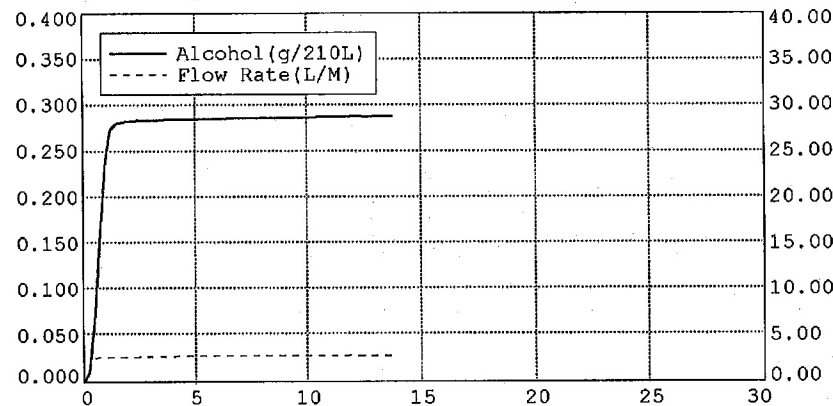
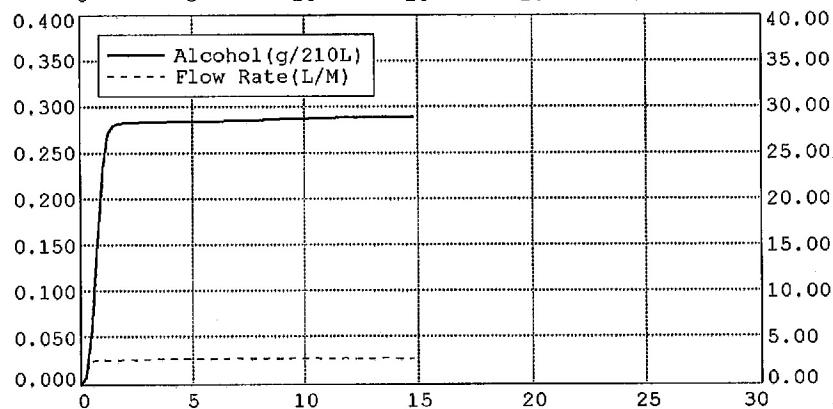
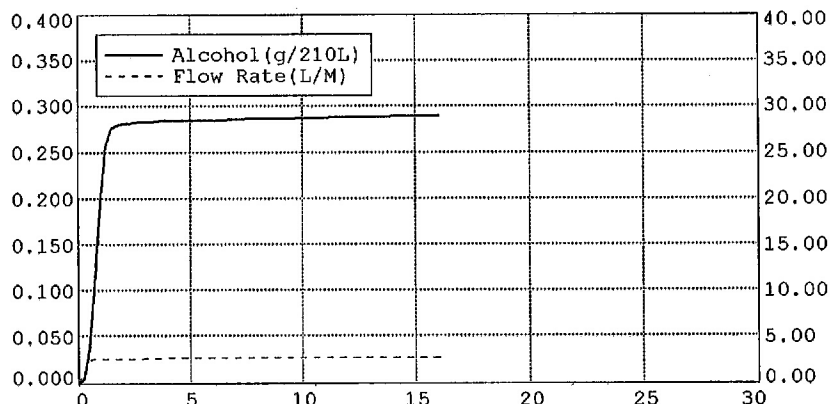
Date: 03/15/2011
Time: 11:14:32

EXTERNAL STANDARD INFORMATION

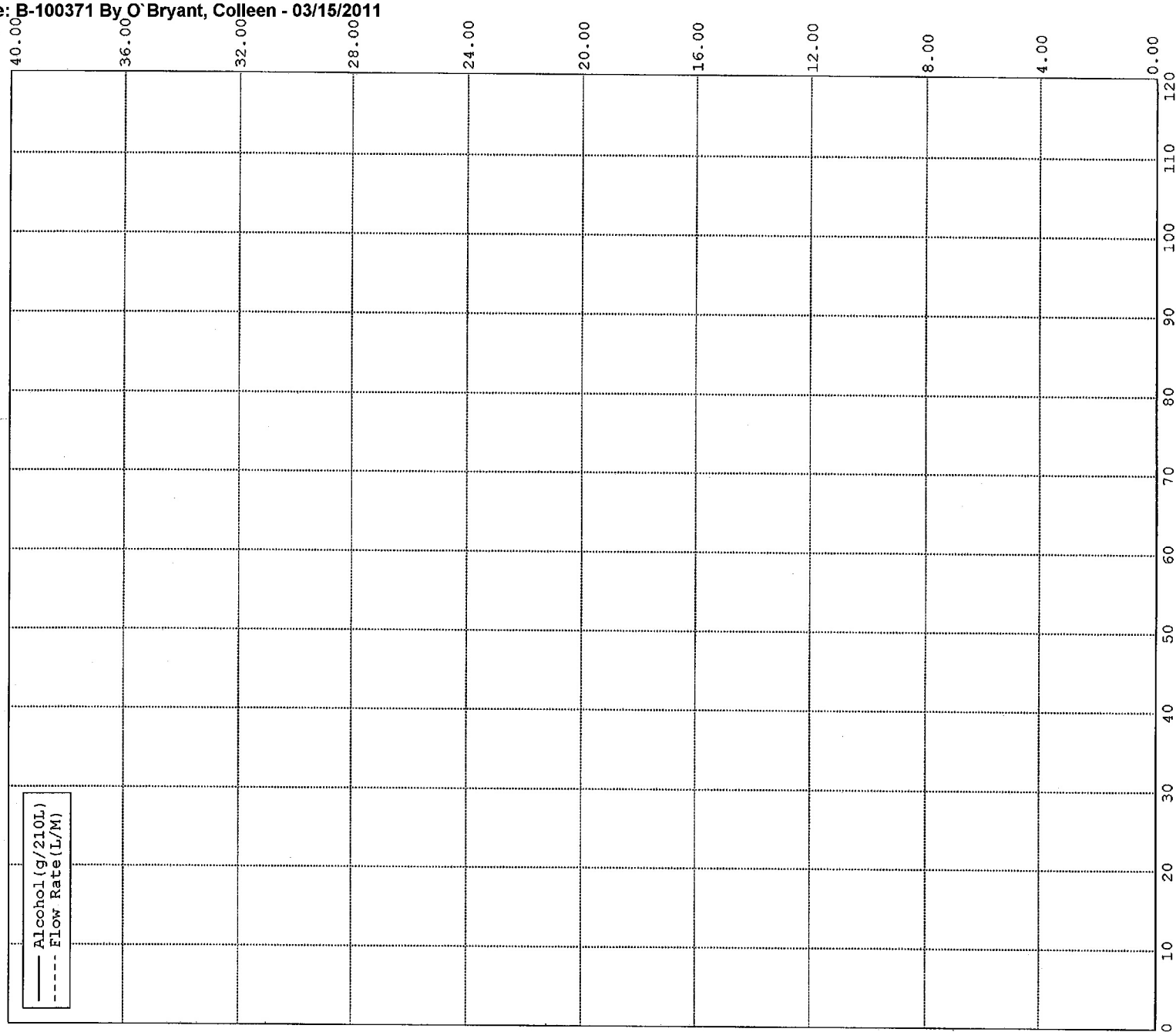
NOMINAL: 0.300
TARGET AT 29.05: 0.291
LOT #: 15210300A3
EXPIRATION: 07/01/2012

BLANK TEST	0.000	11:15
INTERNAL STANDARD	VERIFIED	11:15
EXTERNAL STANDARD	0.290	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.290	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.288	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.287	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.288	11:21
BLANK TEST	0.000	11:22

Average = 0.2886
Std Dev = 0.0013



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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 03/15/2011
Time: 11:27:29

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

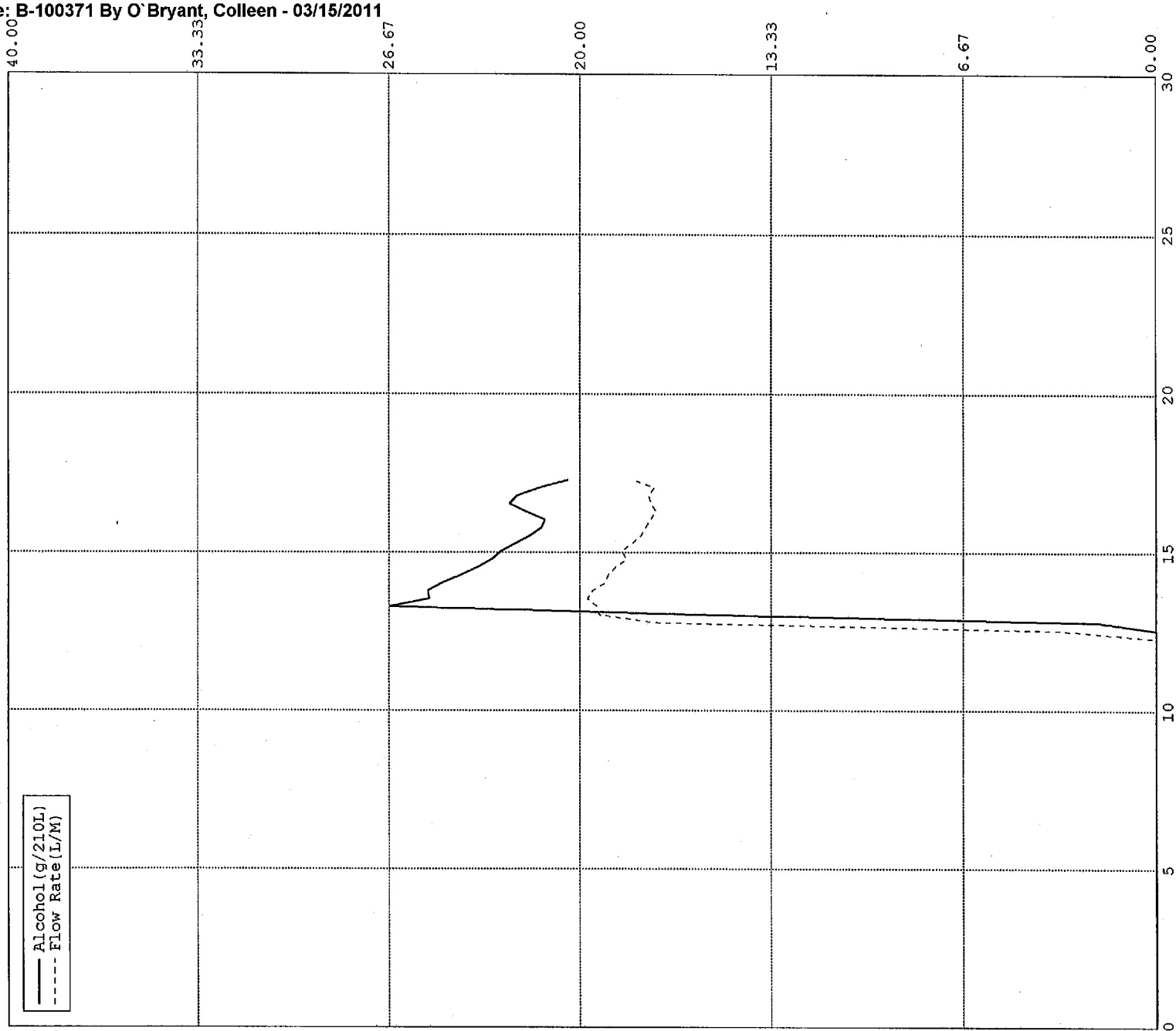
DEPT/AGENCY:
AAA1

CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.04: 0.077
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	11:28
BLANK TEST	0.000	11:28
INTERNAL STANDARD	VERIFIED	11:28
EXTERNAL STANDARD	0.078	11:29
BLANK TEST	0.000	11:29
SUBJECT SAMPLE	INCOMPLETE	11:31

CAB 13/18



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100371

Date: 03/15/2011
 Time: 11:36:54

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

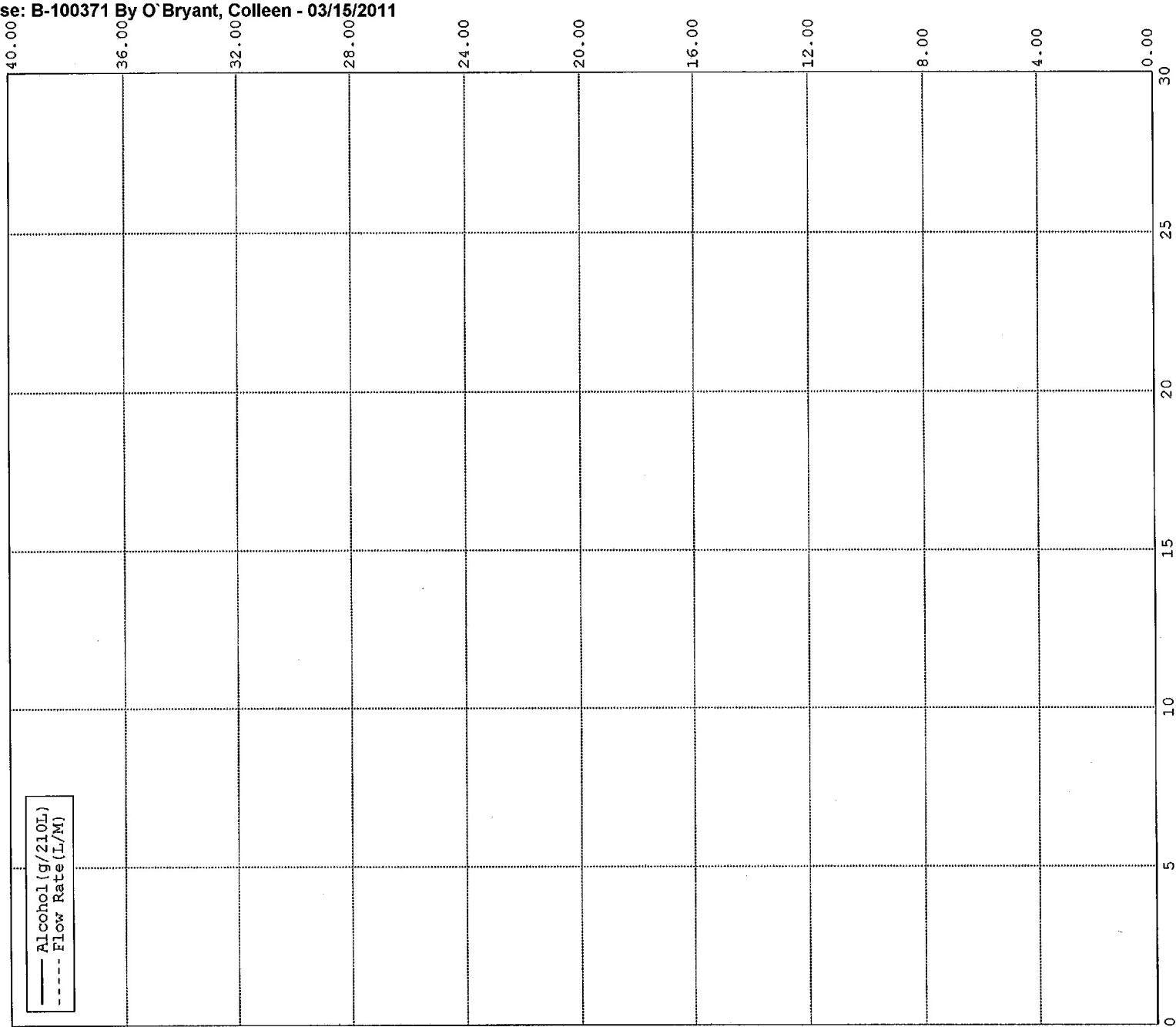
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.04: 0.077
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

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

BB

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 03/15/2011
Time: 11:50:03

SUBJECT NAME:
TEST TEST
LICENSE #: TEST

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 11-1234
TEST TYPE: TEST

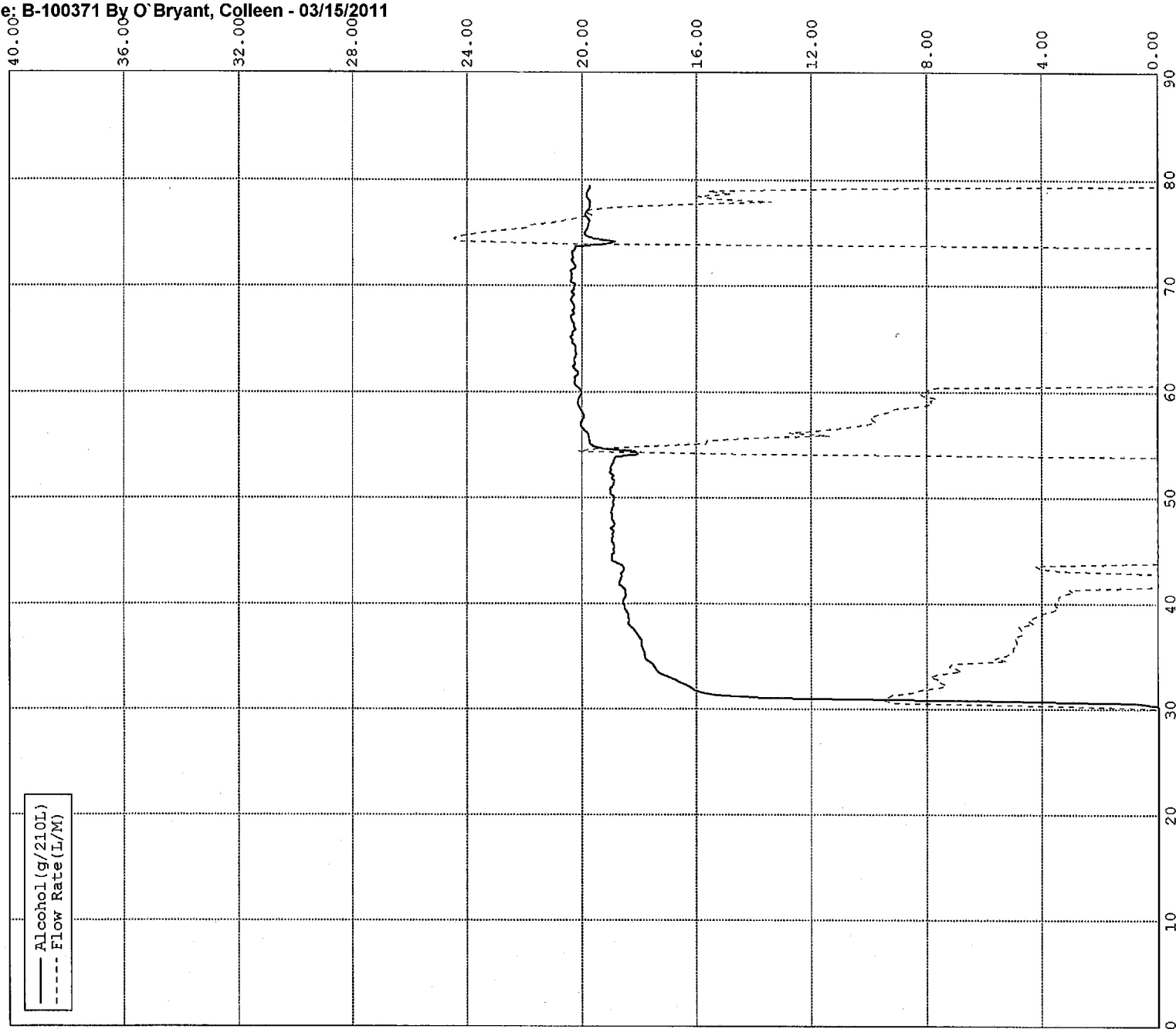
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.03: 0.077
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK
BLANK TEST PASSED 11:51
INTERNAL STANDARD VERIFIED 11:51
EXTERNAL STANDARD 0.079 11:51
BLANK TEST 0.000 11:52

RFI Detected

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SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100371

Date: 03/15/2011
 Time: 11:57:41

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

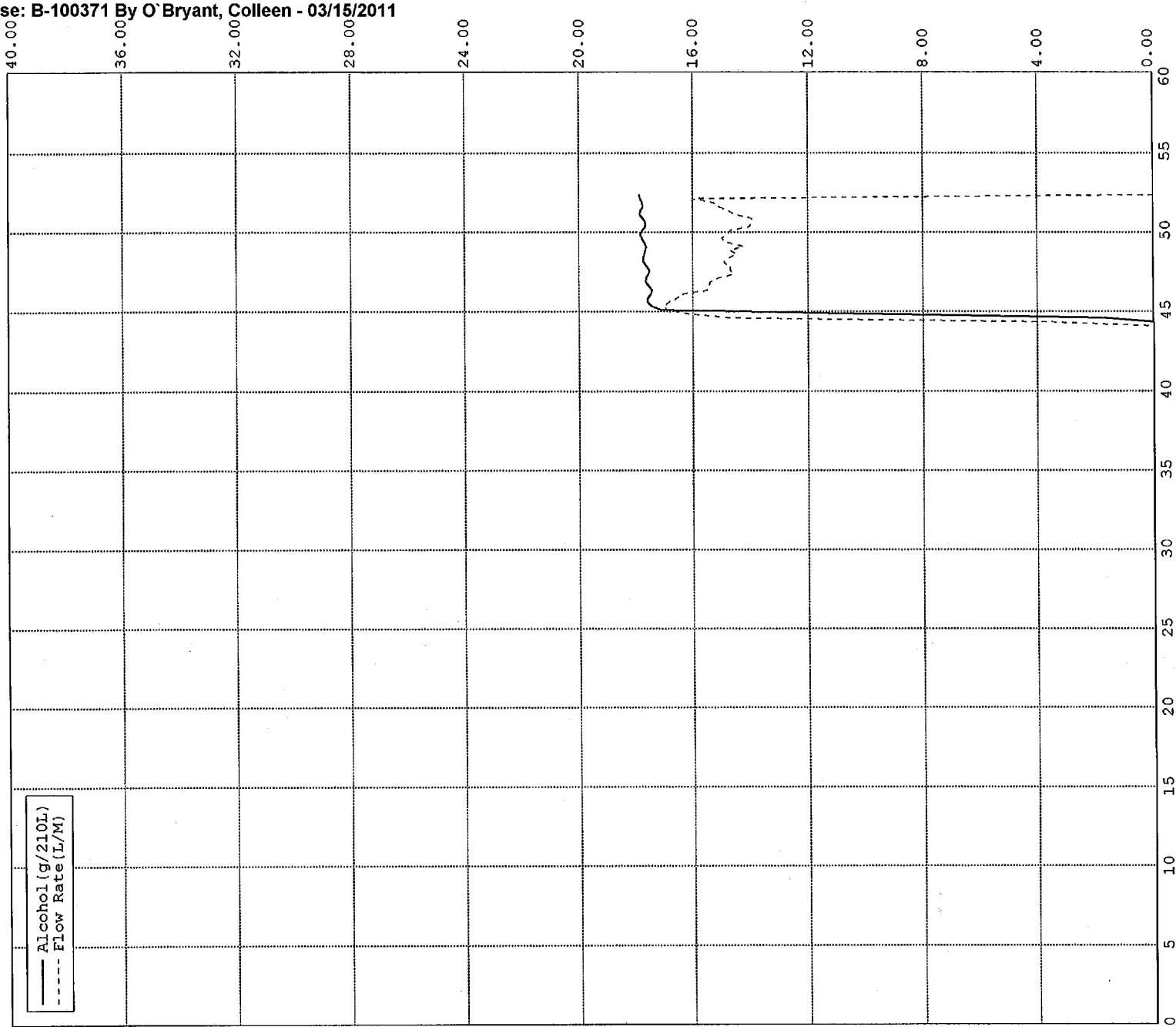
NOMINAL: 0.080
 TARGET AT 29.04: 0.077
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK

PASSED 11:58
 BLANK TEST 0.000 11:58
 INTERNAL STANDARD VERIFIED 11:58
 EXTERNAL STANDARD 0.078 11:59
 BLANK TEST 0.000 12:00
 SUBJECT SAMPLE INTERFERENCE 12:01

CAB

CAB 10/18



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100371

Date: 03/15/2011
Time: 12:03:52

SUBJECT NAME:
TEST TEST
LICENSE #: INTF - ACET

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 11-1234
TEST TYPE: TEST

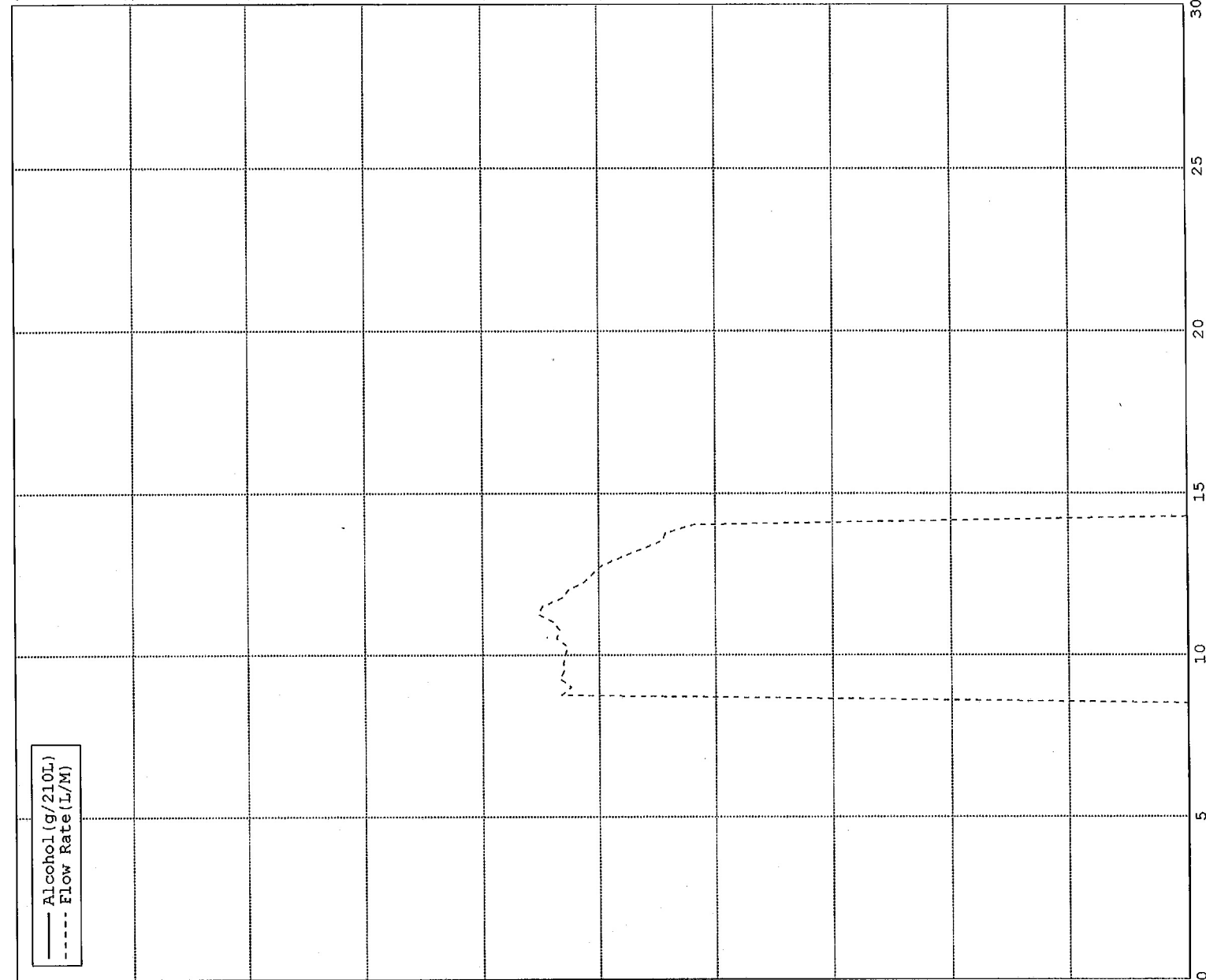
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.03: 0.077
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	12:05
BLANK TEST	0.000	12:05
INTERNAL STANDARD	VERIFIED	12:05
EXTERNAL STANDARD	0.078	12:05
BLANK TEST	0.000	12:06
SUBJECT SAMPLE	INTERFERENCE	12:07

CB

03/17/18



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100371

Date: 03/15/2011
 Time: 12:41:38

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON-DRINKIN
 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 29.02: 0.077

LOT #: 33609080A1

EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	12:43
BLANK TEST	0.000	12:43
INTERNAL STANDARD	VERIFIED	12:43
EXTERNAL STANDARD	0.078	12:43
BLANK TEST	0.000	12:44
SUBJECT SAMPLE	0.000	12:44
BLANK TEST	0.000	12:45
EXTERNAL STANDARD	0.078	12:46
BLANK TEST	0.000	12:46

CB

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