

	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 # 100374Analyst Colleen O'BryantDate 5/19/11

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 1500 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 02511080A3 Exp 2/1/13iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 3/1/13v. 0.200g/210L Mnf ILMO Lot 07611200A2 Exp 3/1/13vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 3/1/13

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 DR 6267ii. 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: 100374

Date: 05/19/2011
Time: 09:19:18

VERSIONS

DMT: 1.02
PIC: 3.02
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 48.0°C	PASSED

PUMP INFO

Flow Rate = 3.877 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: 100374

Date: 05/19/2011

Time: 9:36 AM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 48.1°C

Current Barometer 29.7 in

Volume (Ltr) 1.43

Settings

Lamp: 1.64 V

Bias: 79 V

Cooler: 1.51 V

Chopper: 527 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.054 V

CUB 3/18

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100374

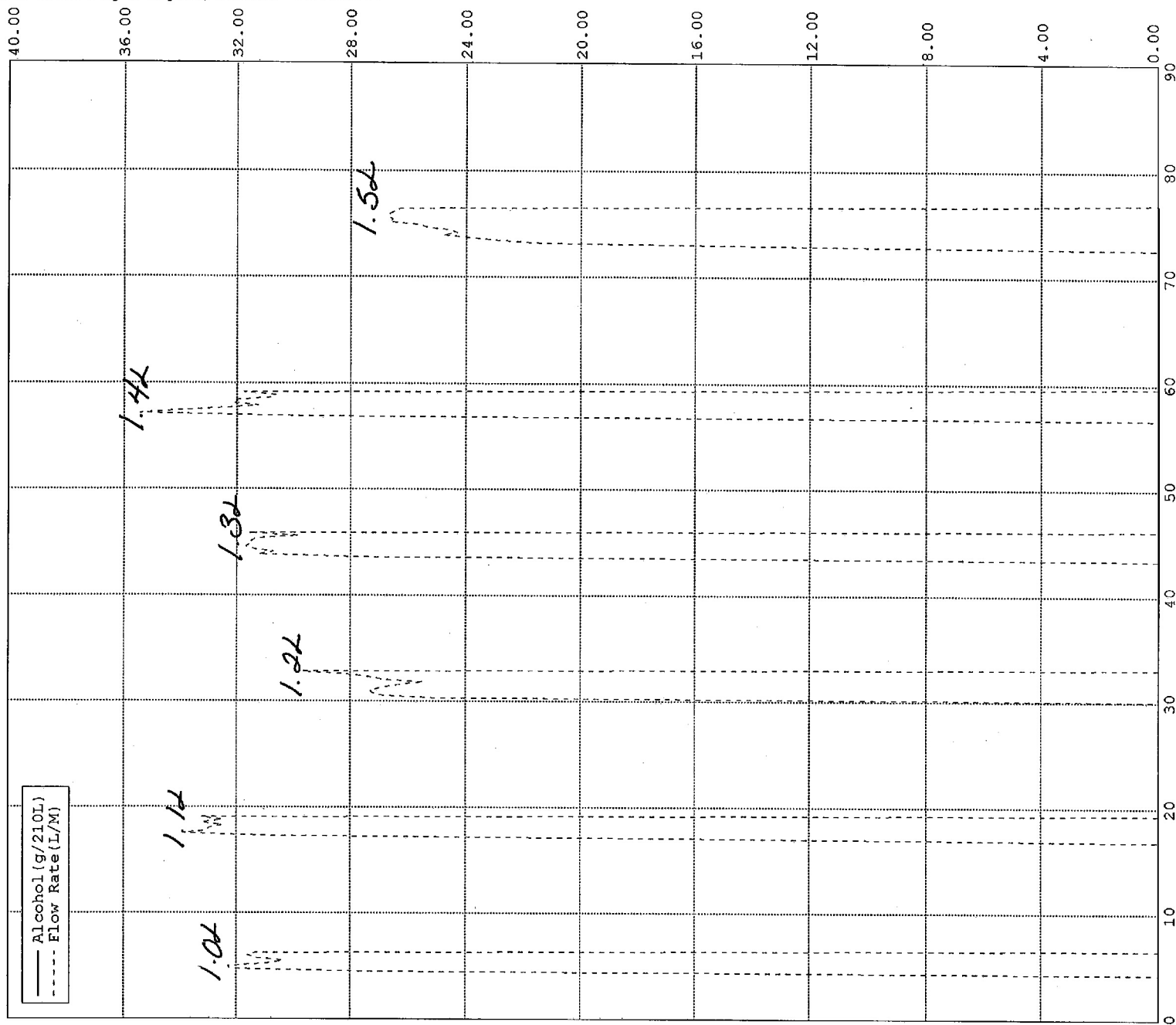
Date: 05/18/2011
Time: 14:37:55

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2010

Ca = 0.1000
CAL = 0.962091 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0070 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0899 0.0500 <= Xq < 0.2000
a21 = 1.196523 1.050 <= a21 < 1.300
a31 = 0.386146 0.300 <= a31 < 0.800

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100374

Date: 05/19/2011
Time: 09:37:16

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 29.74: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:38
BLANK TEST	0.000	09:38
INTERNAL STANDARD	VERIFIED	09:38
EXTERNAL STANDARD	0.079	09:39
BLANK TEST	0.000	09:40
SUBJECT SAMPLE	0.000	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.078	09:42
BLANK TEST	0.000	09:43

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CB

LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100374

DATA MASTER dmt: 100374

Date: 05/19/2011

Time: 10:47:02

SUPERVISOR NAME:

COLLEEN S OBRYAN

OPERATOR'S #: 6237

TARGET

AVERAGE

STD. DEV.

0.019

0.0208

8000.0

0.039

0.0392

0.0004

0.079

0.0784

0.0005

0.099

0.0992

0.0004

0.198

0.1964

0.0005

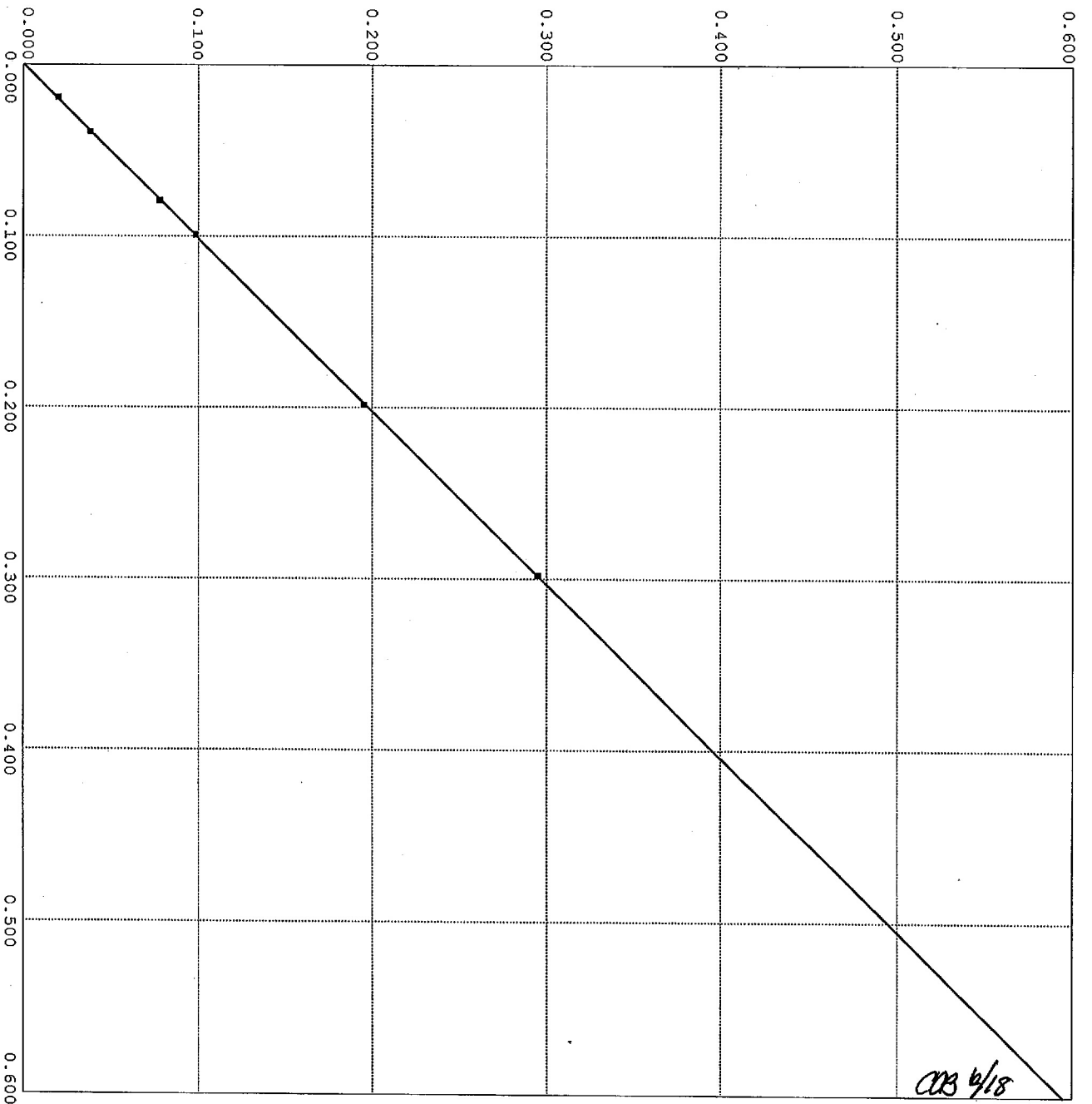
0.297

0.2956

0.0015

STONE

1000

 $\mathbb{R}^2$
$$= 0.9995666$$


CB 4/18

A handwritten signature in black ink, appearing to be "R".

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100374

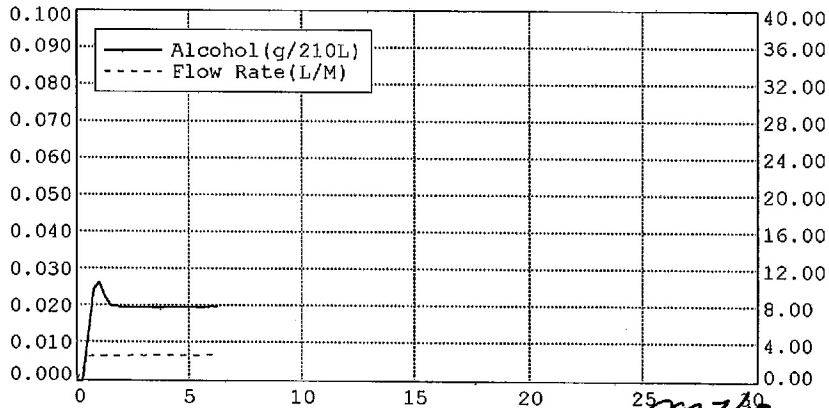
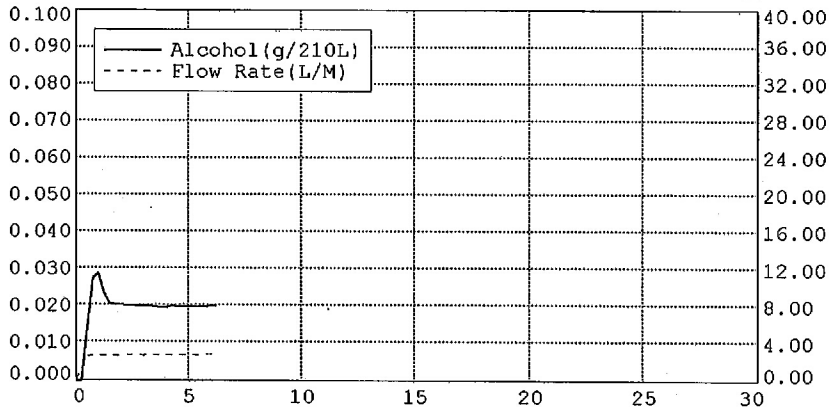
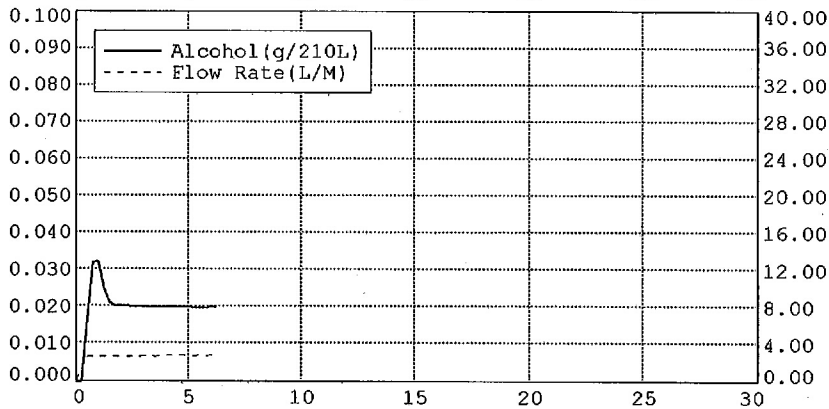
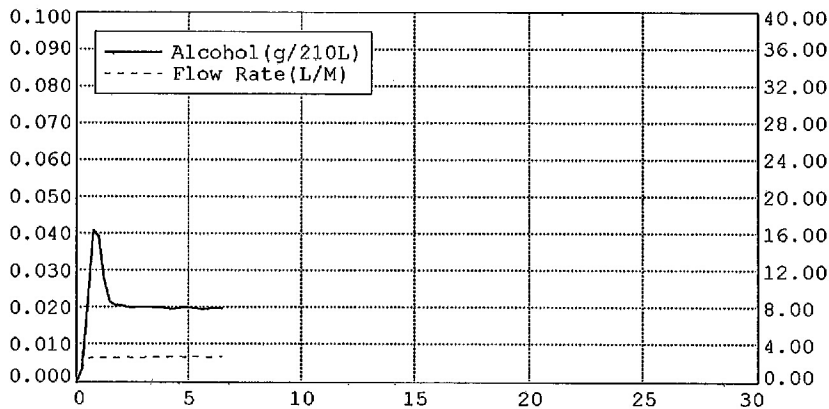
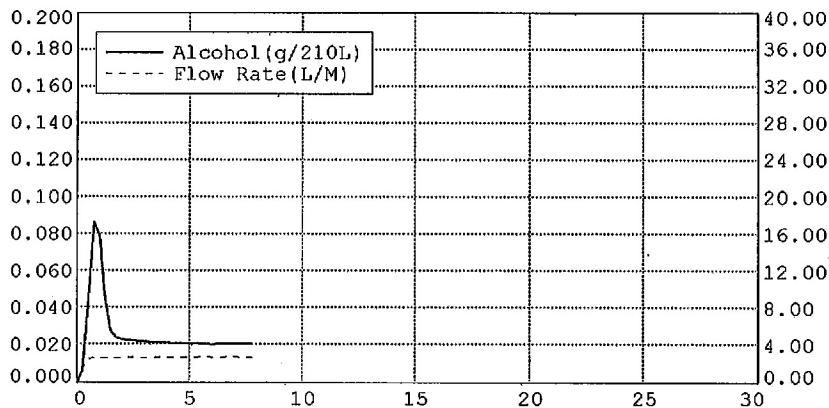
Date: 05/19/2011
Time: 10:47:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.73: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:48
INTERNAL STANDARD	VERIFIED	10:48
EXTERNAL STANDARD	0.022	10:48
BLANK TEST	0.000	10:49
EXTERNAL STANDARD	0.020	10:49
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.021	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.021	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.020	10:52
BLANK TEST	0.000	10:53

Average = 0.0208
Std Dev = 0.0008



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LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100374

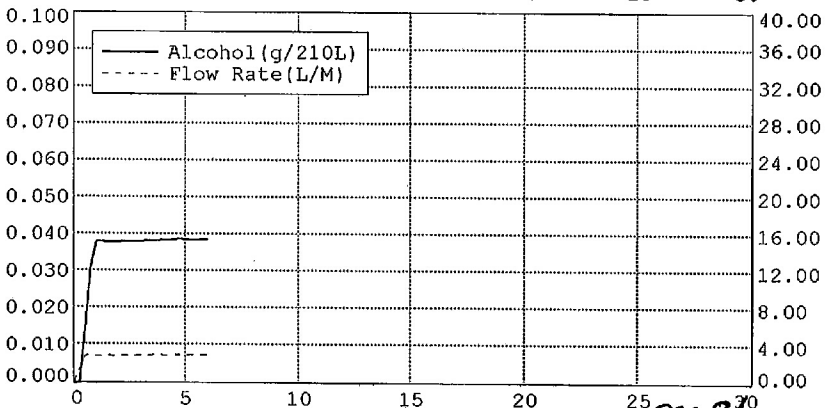
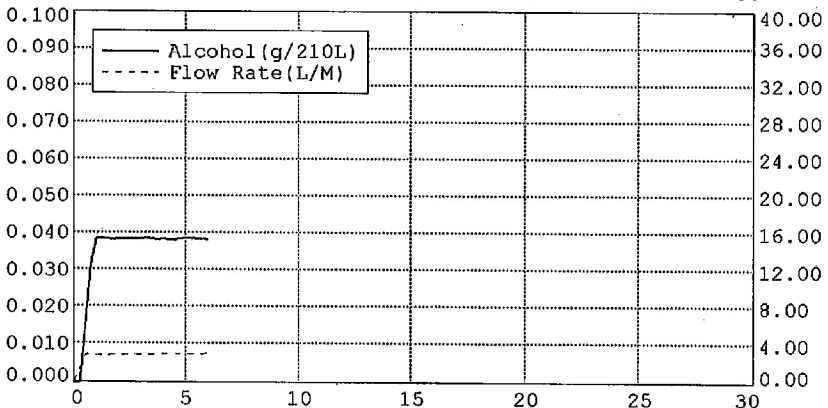
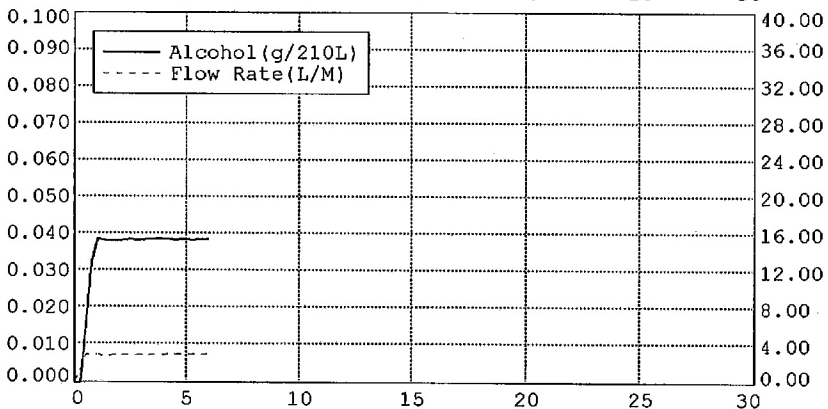
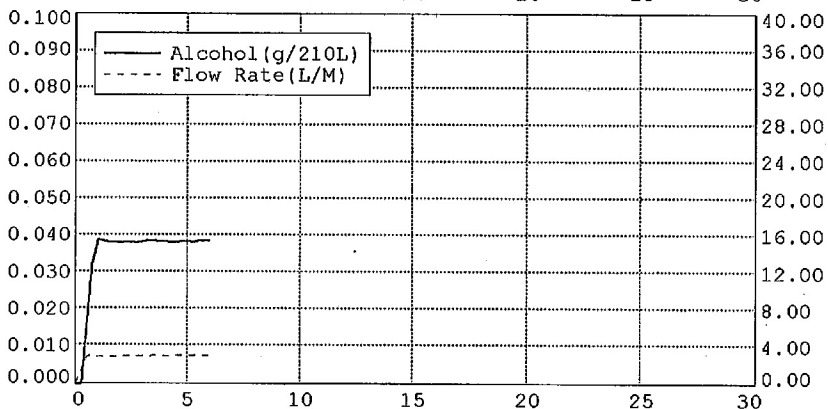
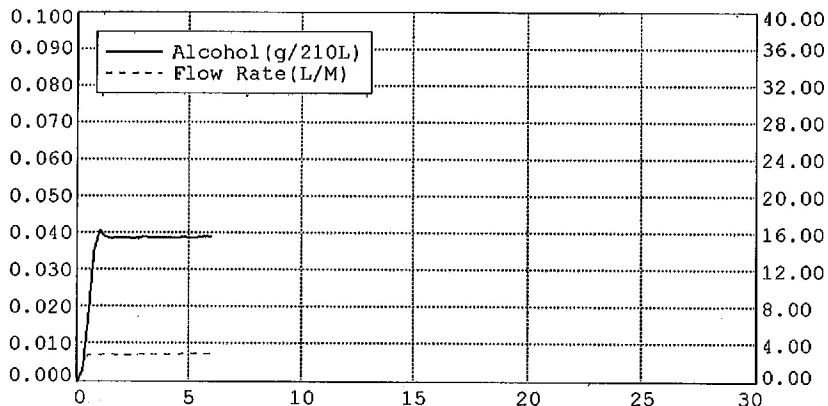
Date: 05/19/2011
Time: 10:54:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.72: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:55
INTERNAL STANDARD	VERIFIED	10:55
EXTERNAL STANDARD	0.040	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.039	10:57
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.039	10:58
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.039	10:59
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.039	11:00
BLANK TEST	0.000	11:01

Average = 0.0392
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100374

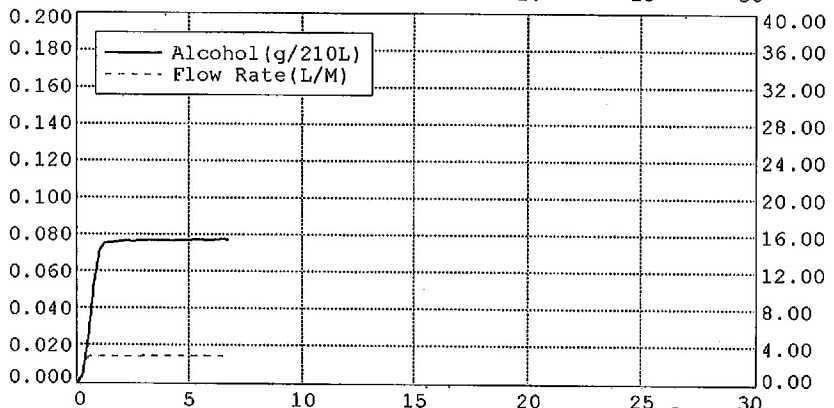
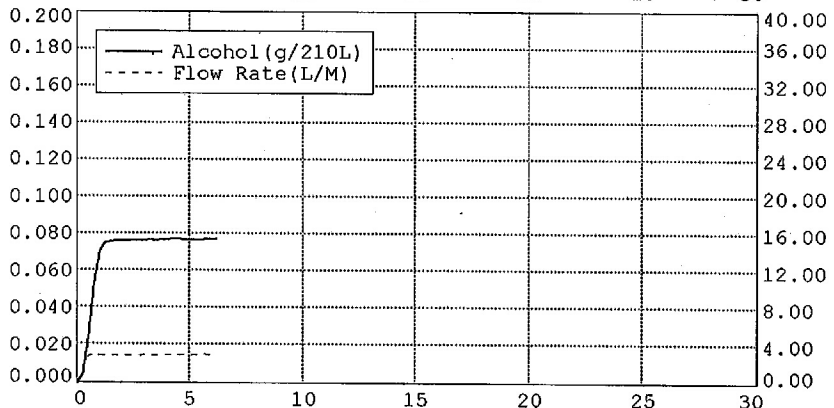
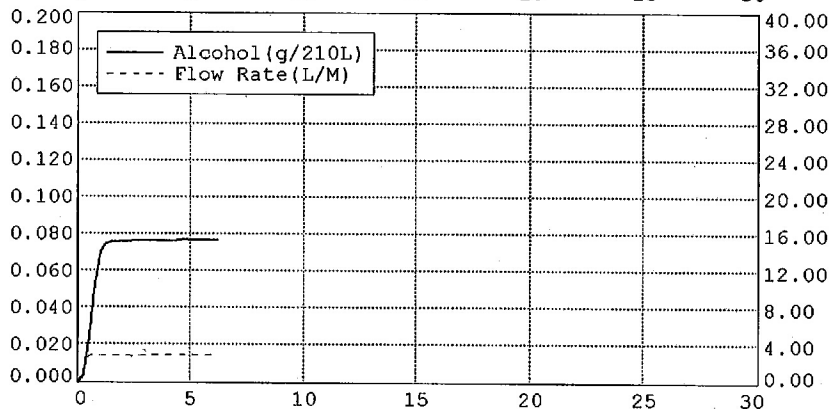
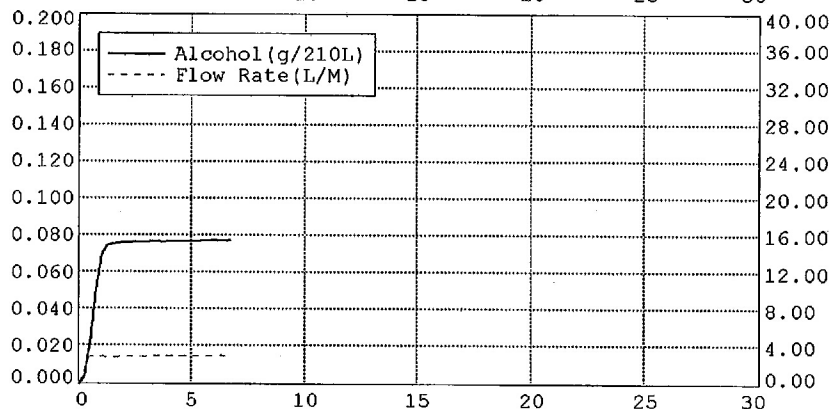
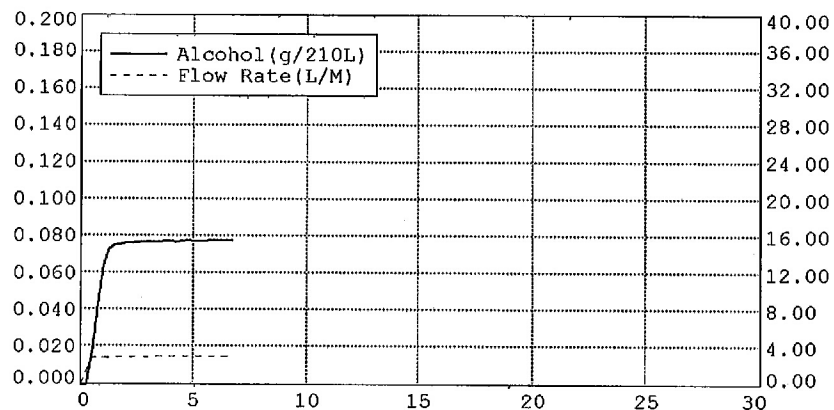
Date: 05/19/2011
Time: 11:02:40

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:03
INTERNAL STANDARD	VERIFIED	11:04
EXTERNAL STANDARD	0.079	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.078	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.078	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.078	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.079	11:08
BLANK TEST	0.000	11:09

Average = 0.0784
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100374

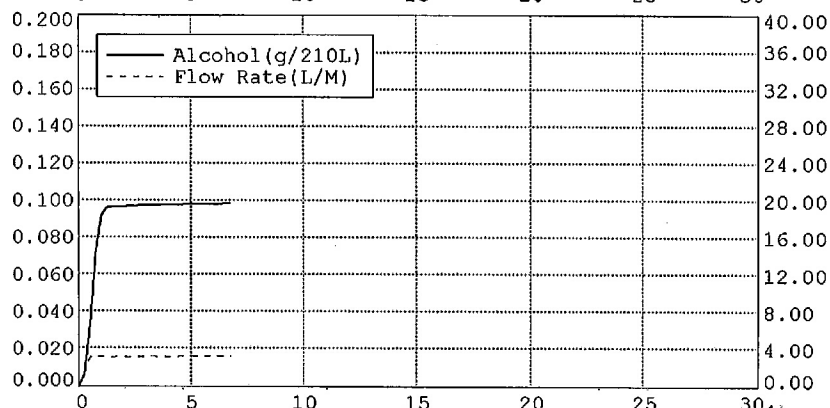
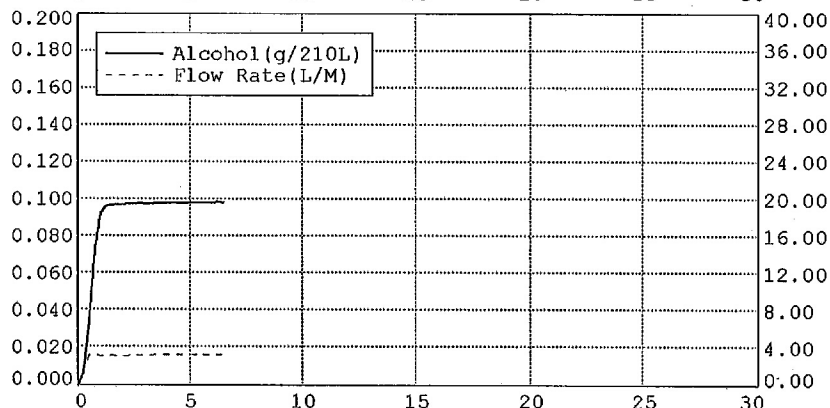
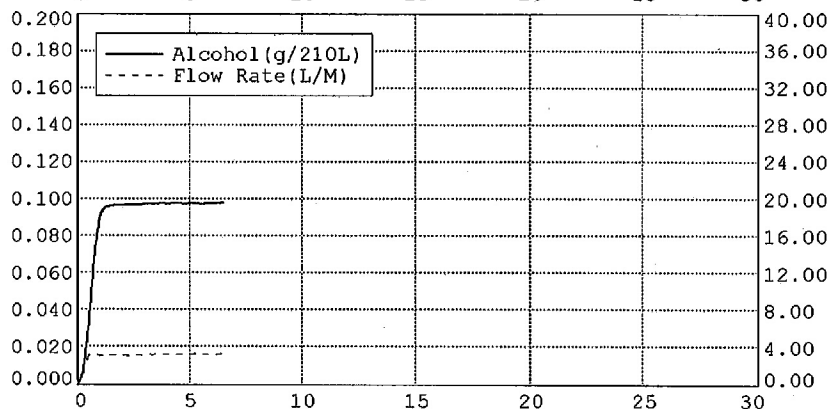
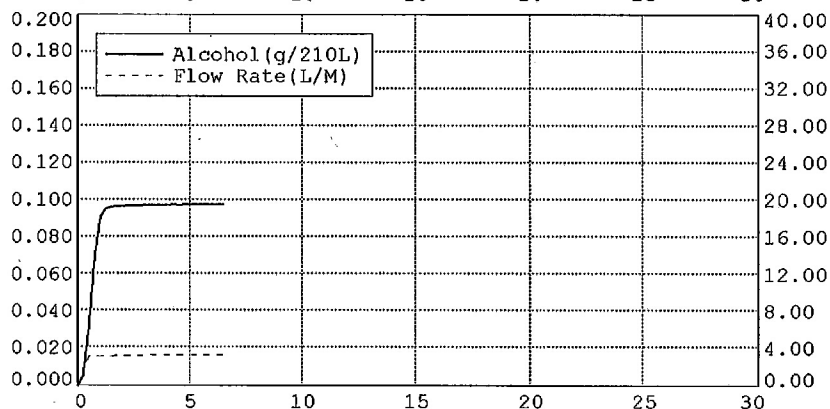
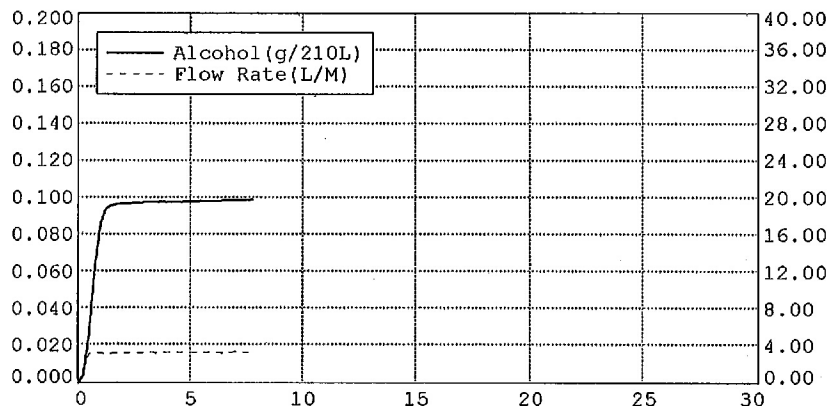
Date: 05/19/2011
Time: 11:11:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.72: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:12
INTERNAL STANDARD	VERIFIED	11:12
EXTERNAL STANDARD	0.100	11:12
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.099	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.099	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.099	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.099	11:16
BLANK TEST	0.000	11:17

Average = 0.0992
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100374

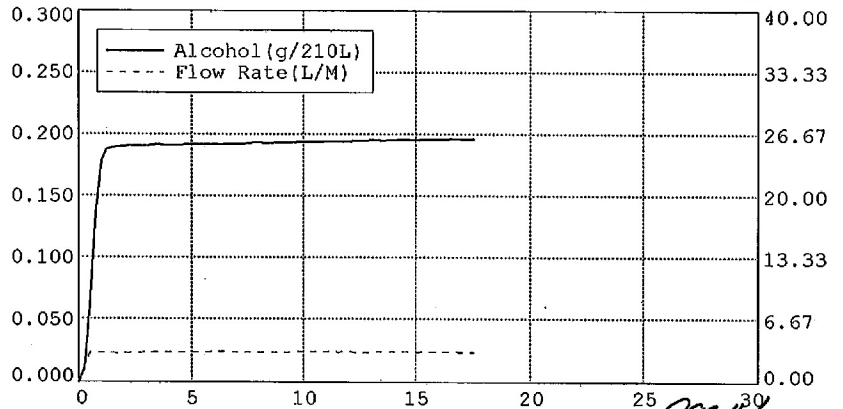
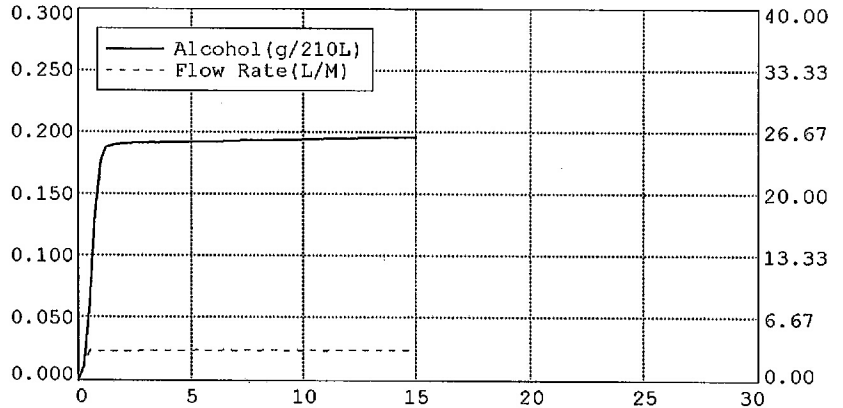
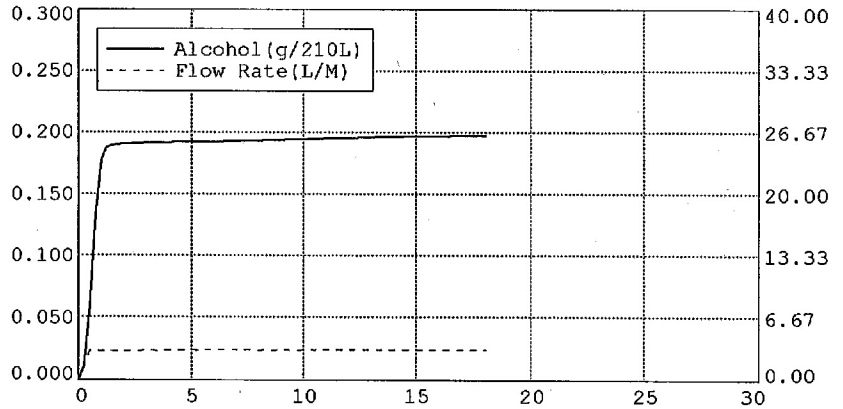
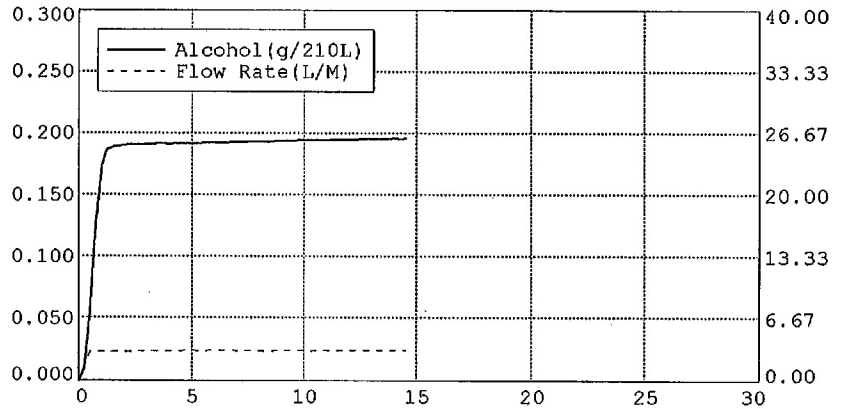
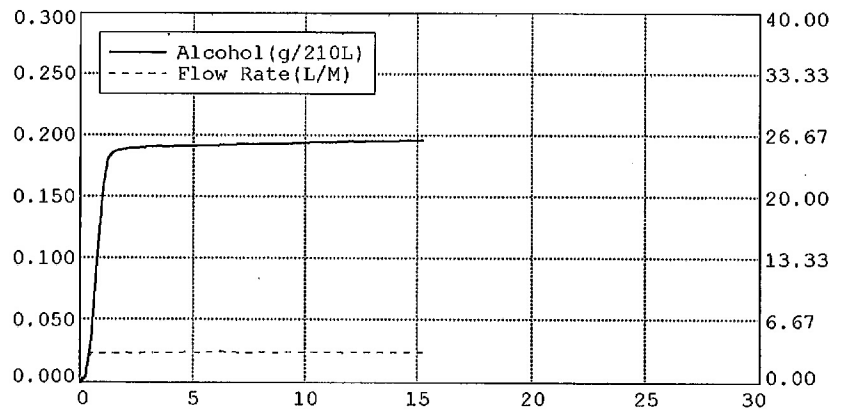
Date: 05/19/2011
Time: 11:19:11

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.71: 0.198
LOT #: 07611200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:20
INTERNAL STANDARD	VERIFIED	11:20
EXTERNAL STANDARD	0.196	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.196	11:22
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.197	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.196	11:24
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.197	11:26
BLANK TEST	0.000	11:26

Average = 0.1964
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100374

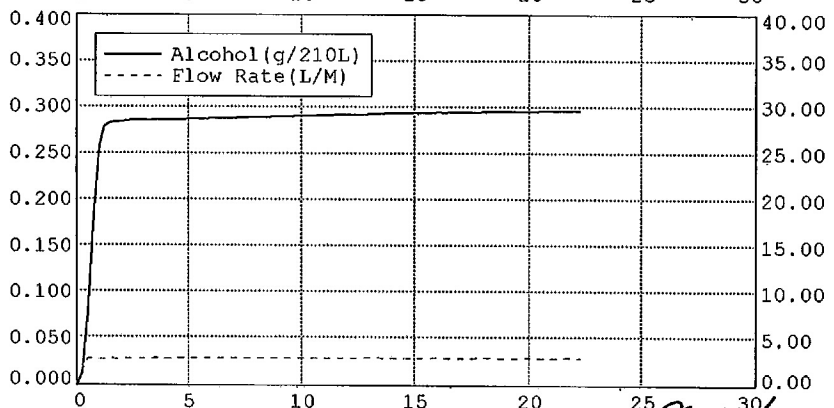
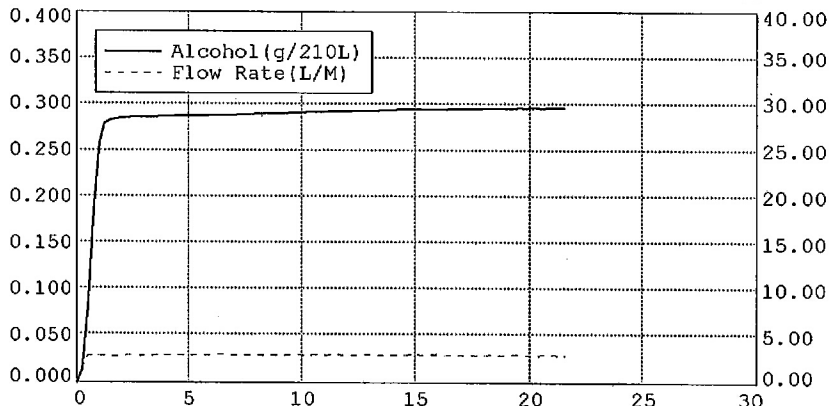
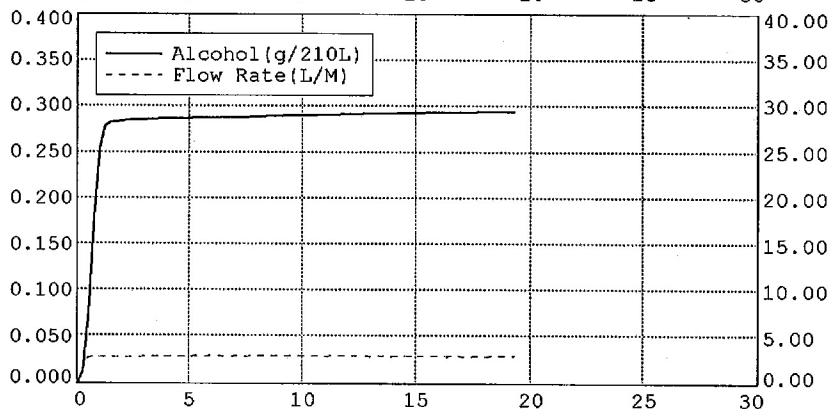
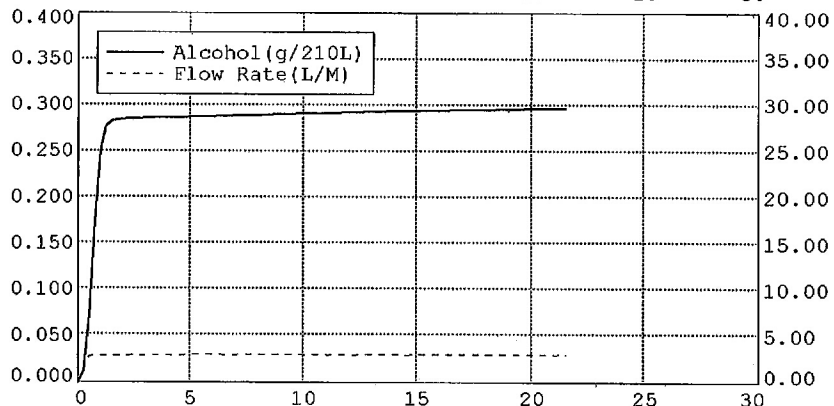
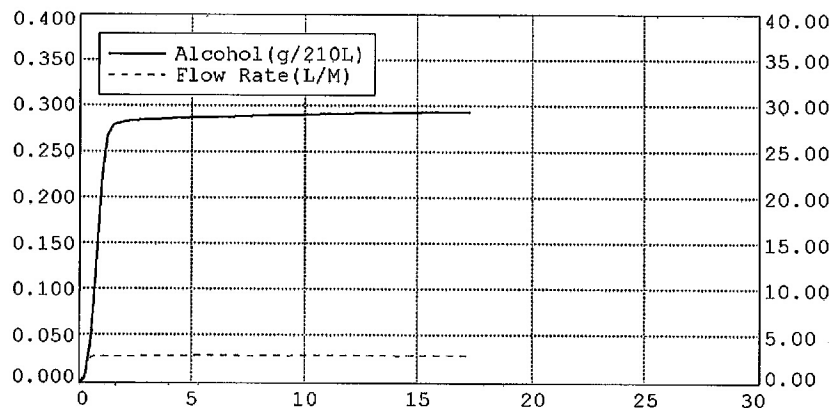
Date: 05/19/2011
Time: 11:28:17

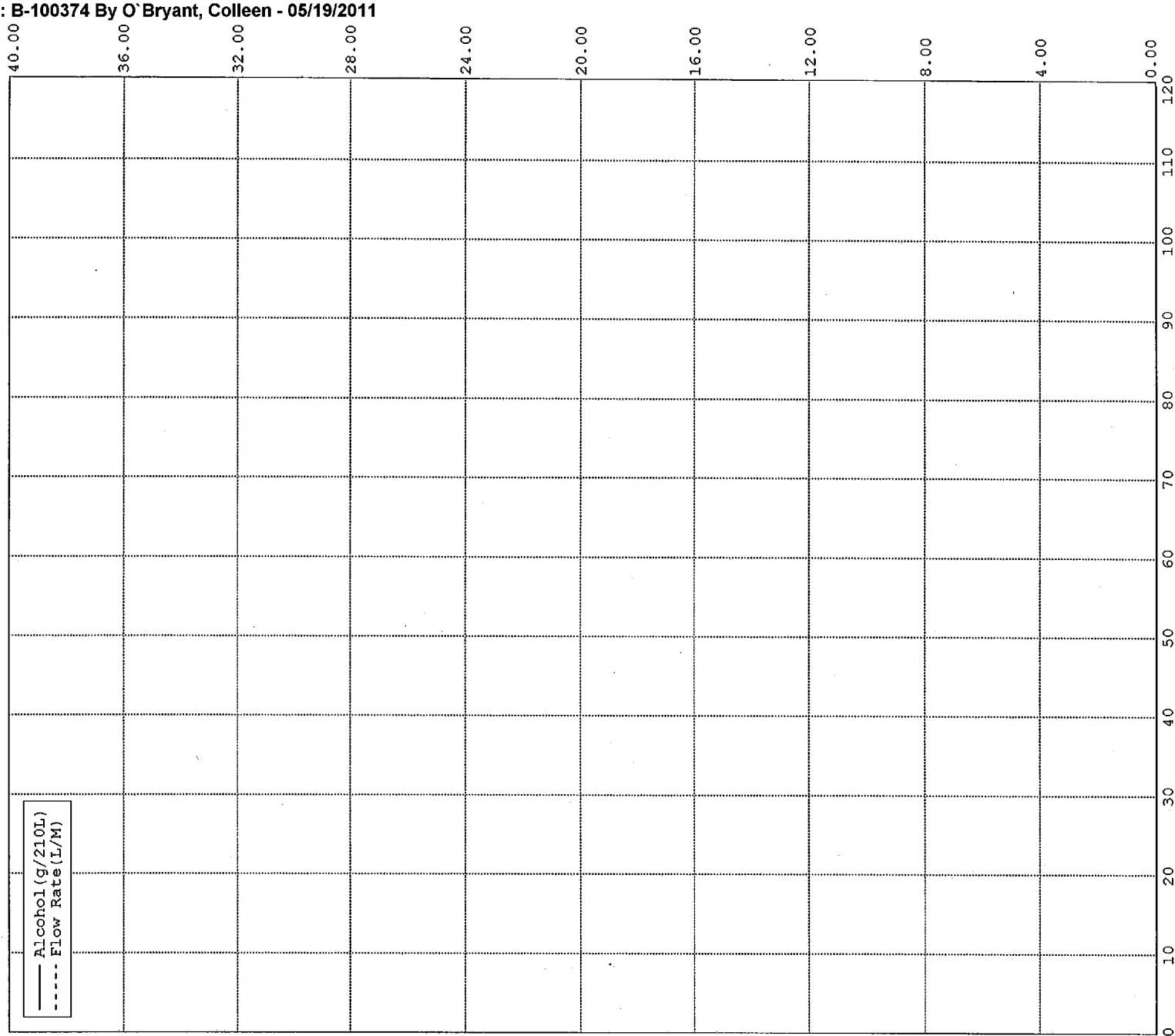
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.72: 0.297
LOT #: 07611300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:29
INTERNAL STANDARD	VERIFIED	11:29
EXTERNAL STANDARD	0.294	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.296	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.294	11:32
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.297	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.297	11:35
BLANK TEST	0.000	11:37

Average = 0.2956
Std Dev = 0.0015





SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100374

Date: 05/19/2011
Time: 11:43:13

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

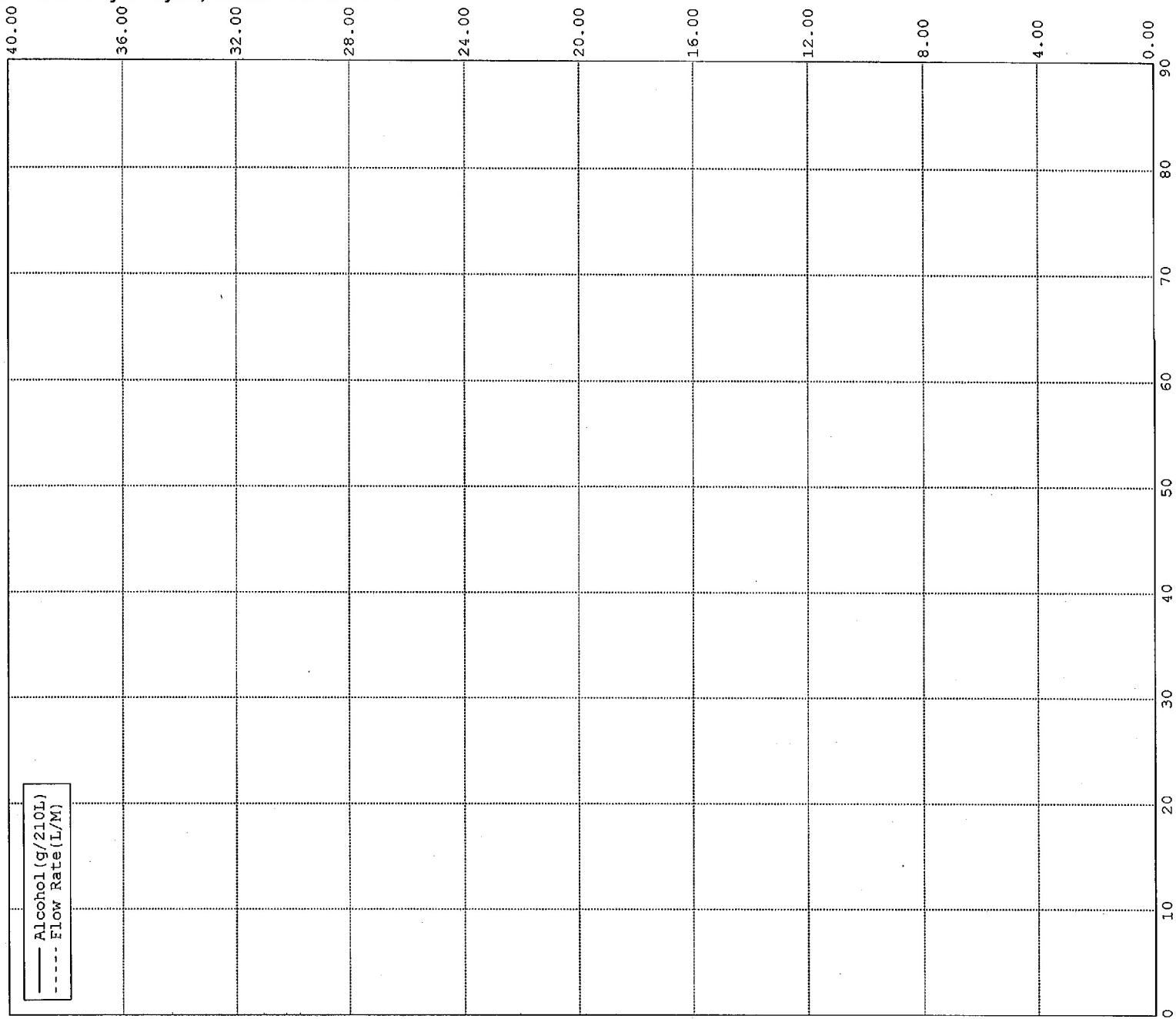
DEPT/AGENCY:
AAA1

CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.71: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	11:44
BLANK TEST	0.000	11:44
INTERNAL STANDARD	VERIFIED	11:44
EXTERNAL STANDARD	0.079	11:44
BLANK TEST	0.000	11:45
SUBJECT SAMPLE	INCOMPLETE	11:47

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100374

Date: 05/19/2011
Time: 13:57:08

SUBJECT NAME:

TEST TEST

LICENSE #: RFI

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 29.69: 0.079

LOT #: 02511080A3

EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

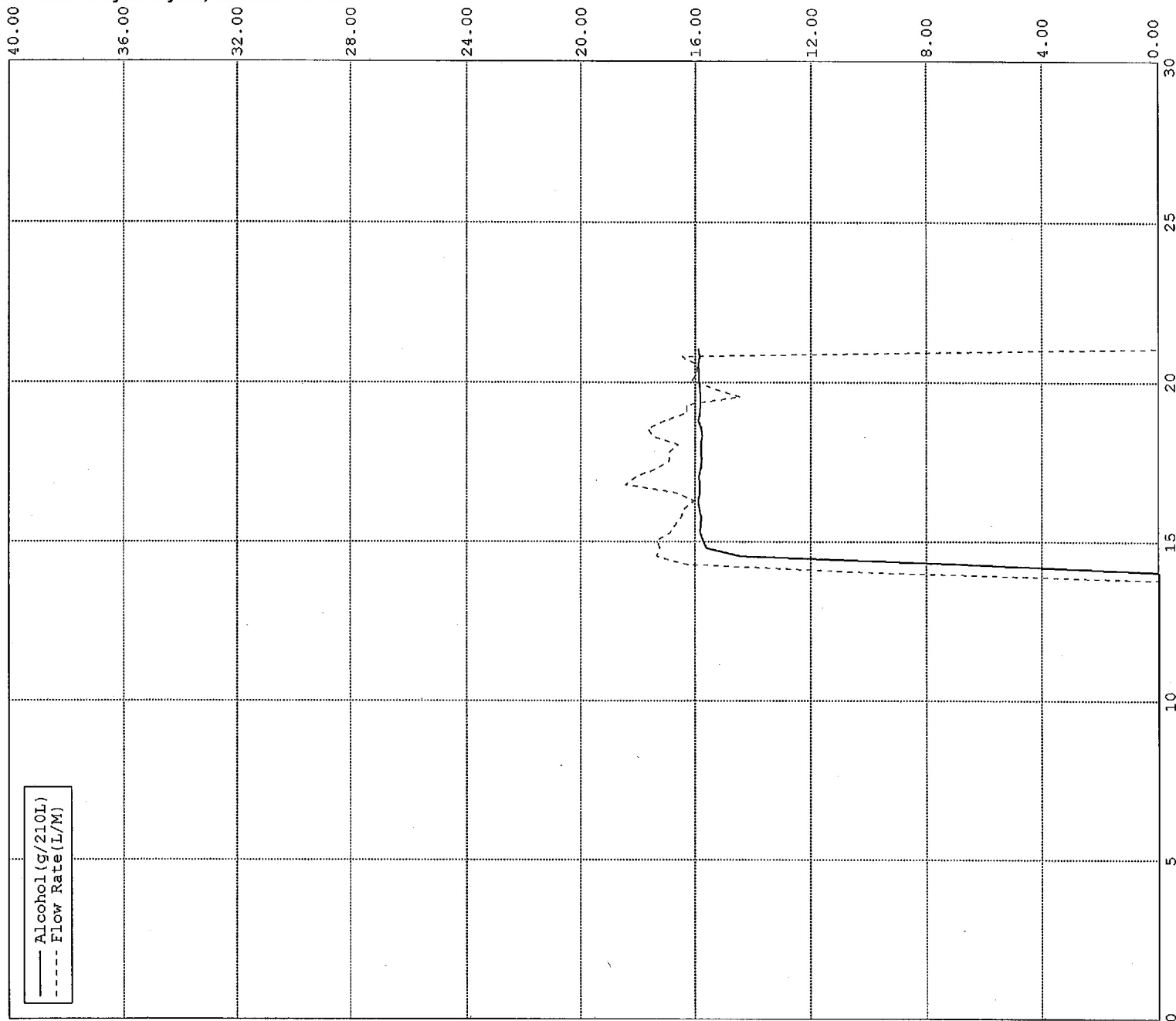
EXTERNAL STANDARD

BLANK TEST

PASSED 13:58
0.000 13:58
VERIFIED 13:58
0.079 13:58
0.000 13:59

RFI Detected

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SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100374

Date: 05/19/2011
Time: 14:09:25

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

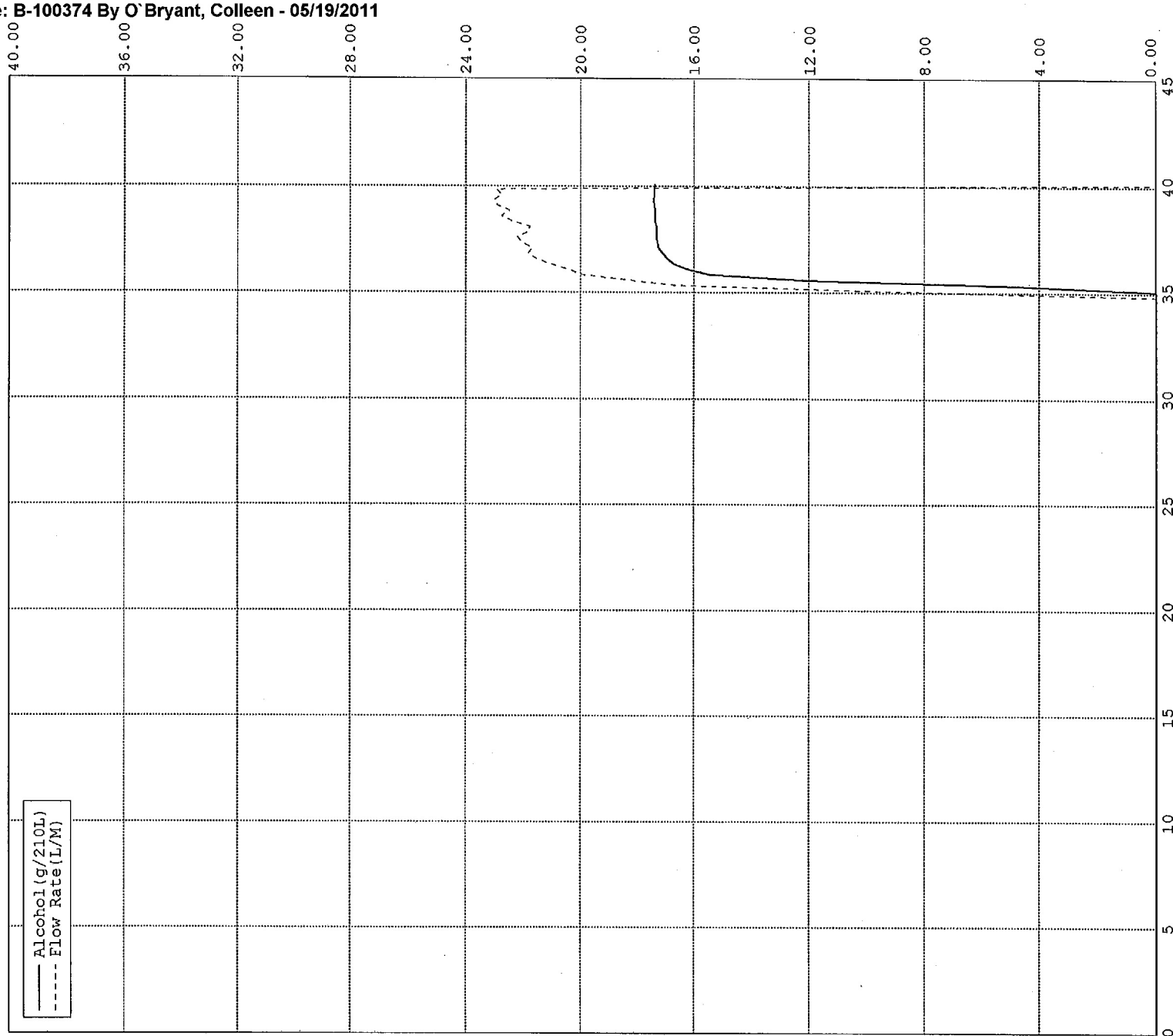
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.68: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:11
BLANK TEST	0.000	14:11
INTERNAL STANDARD	VERIFIED	14:11
EXTERNAL STANDARD	0.079	14:11
BLANK TEST	0.000	14:12
SUBJECT SAMPLE	INTERFERENCE	14:12

CB

CAB 15/18



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100374

Date: 05/19/2011
 Time: 14:22:59

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTF-ISO

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

DEPT/AGENCY:
 AAA1

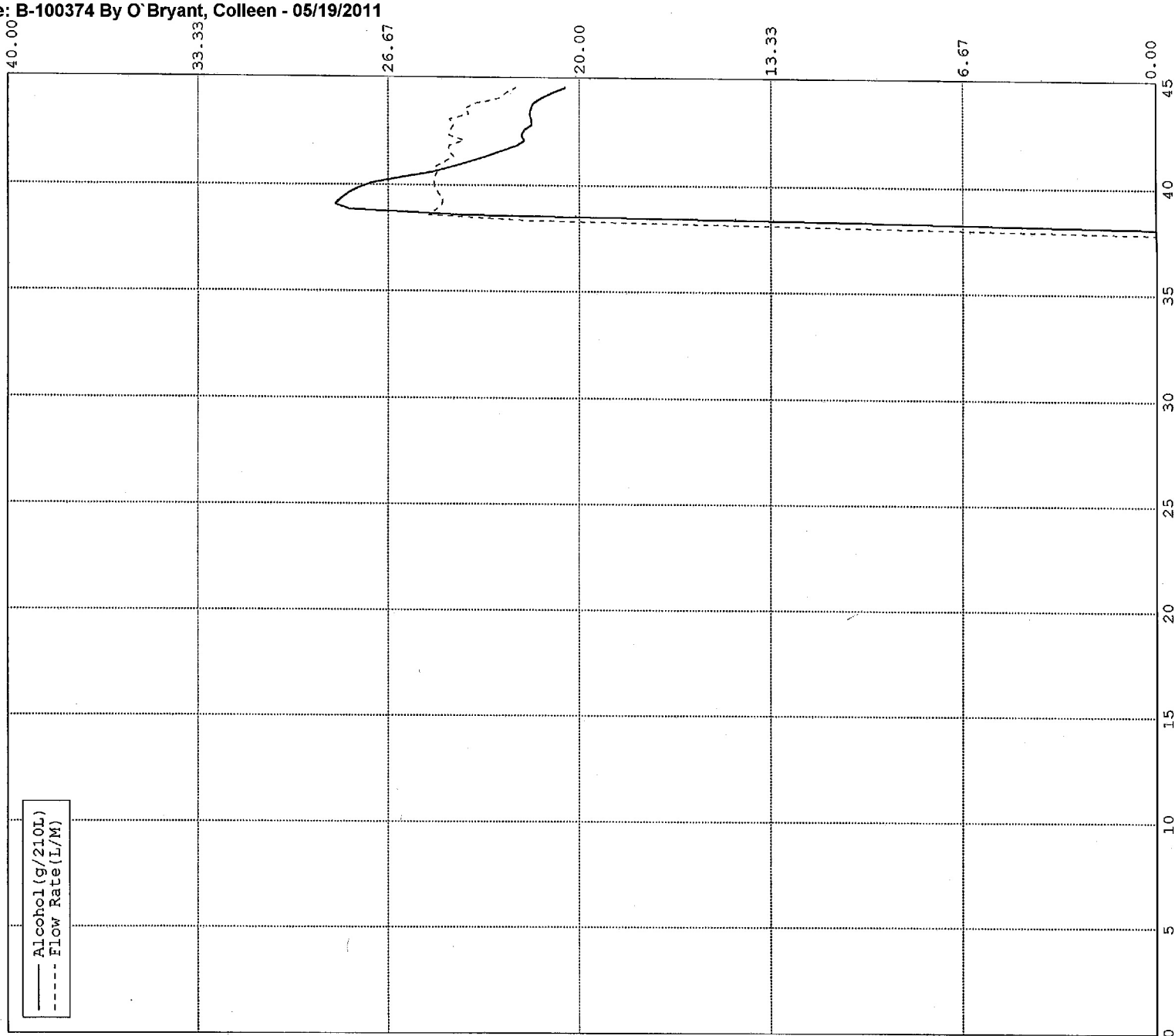
CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.69: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK PASSED 14:24
 BLANK TEST 0.000 14:24
 INTERNAL STANDARD VERIFIED 14:24
 EXTERNAL STANDARD 0.079 14:24
 BLANK TEST 0.000 14:25
 SUBJECT SAMPLE INTERFERENCE 14:26

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SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100374

Date: 05/19/2011
 Time: 14:02:33

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

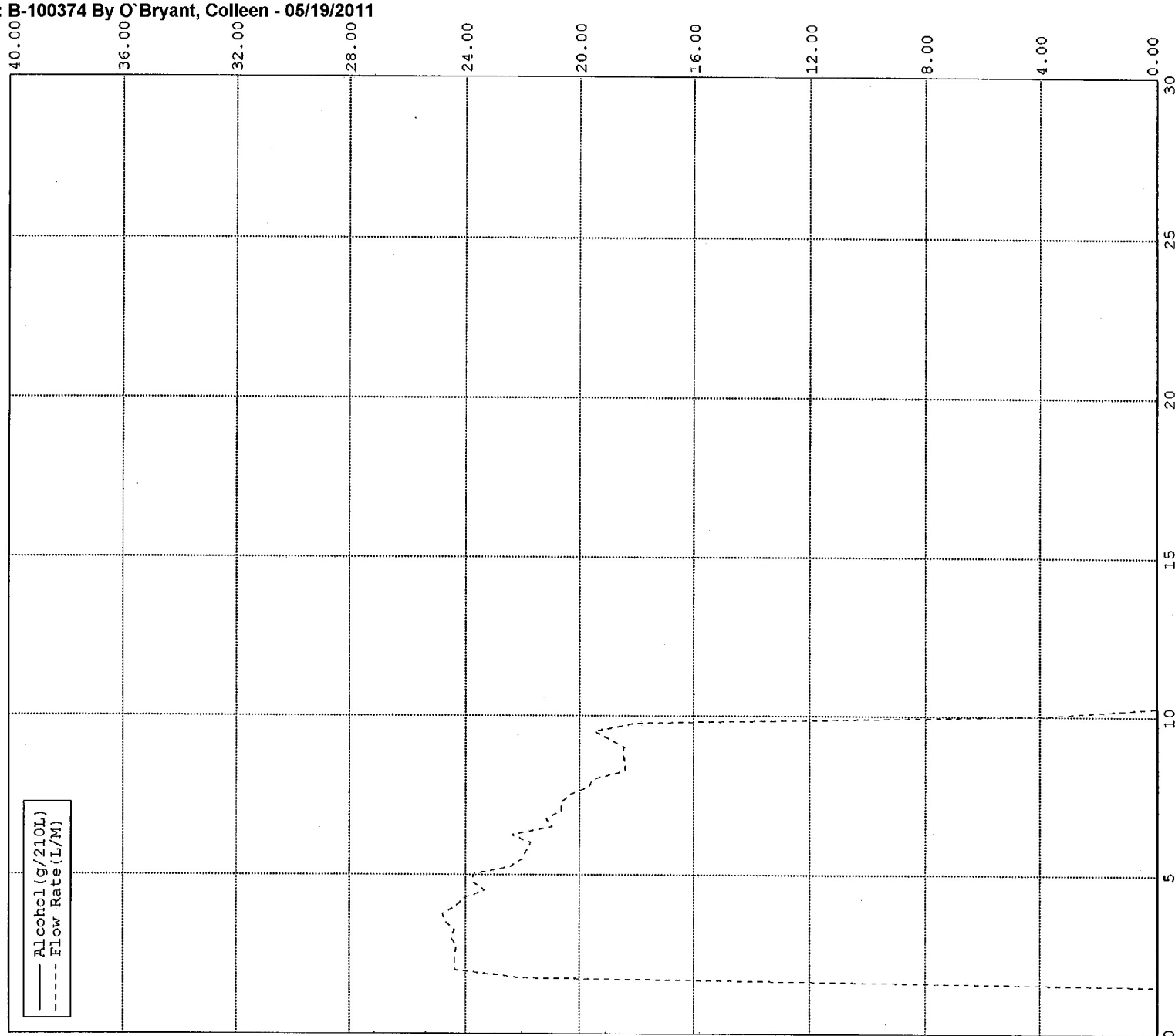
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.68: 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	14:03
EXTERNAL STANDARD	0.078	14:03
BLANK TEST	0.000	14:04
SUBJECT SAMPLE	Invalid	14:06

CB

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SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100374

Date: 05/19/2011
Time: 14:32:04

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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 29.69: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:33
BLANK TEST	0.000	14:33
INTERNAL STANDARD	VERIFIED	14:33
EXTERNAL STANDARD	0.079	14:33
BLANK TEST	0.000	14:34
SUBJECT SAMPLE	0.000	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.079	14:36
BLANK TEST	0.000	14:37

COB

COB 18/18