

	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 # 100400Analyst C. O' BryantDate 8/1/11

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 1000 mL ☒
5. Dry Gas Linearity Test (attached)
 - a. Levels Used ☒
 - i. 0.020g/210L Mnf ILMO Lot 15210020A1 Exp 7/1/12
 - ii. 0.040g/210L Mnf ILMO Lot 15210040A2 Exp 7/1/12
 - iii. 0.080g/210L Mnf ILMO Lot 34409080A1 Exp 1/1/12
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13
 - v. 0.200g/210L Mnf ILMO Lot 07411200A2 Exp 3/1/13
 - vi. 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 10280 Level 0.080 Exp 11/17/12 ^{cos}
 1. Simulator Calibration Date 12/15/10 SN DR4176
 - ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/12 ^{cos}
 1. Simulator Calibration Date 12/16/10 SN SD1198
 - d. RFI ☒
7. Calibrate Stylus ☒
8. Verify card reader is functional ☒
9. Upload ☒
10. Reset Options ☒
11. Non-Drinking Subject Test (attached)

1/19
023 1/18 ^{cos}

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 08/11/2011
Time: 07:26:27

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 = 4.601 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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08/19

Technician Screen

DATAMASTER dmt: 100400
-----Date: 08/11/2011
Time: 8:03 AM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 48.1°CCurrent Barometer 30.0 in
Volume (Ltr) 1.44

Settings

Lamp: 1.66 V
Bias: 79 V
Cooler: 1.67 V
Chopper: 535 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.086 V

003 3/19

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 07/28/2011
Time: 16:03:35

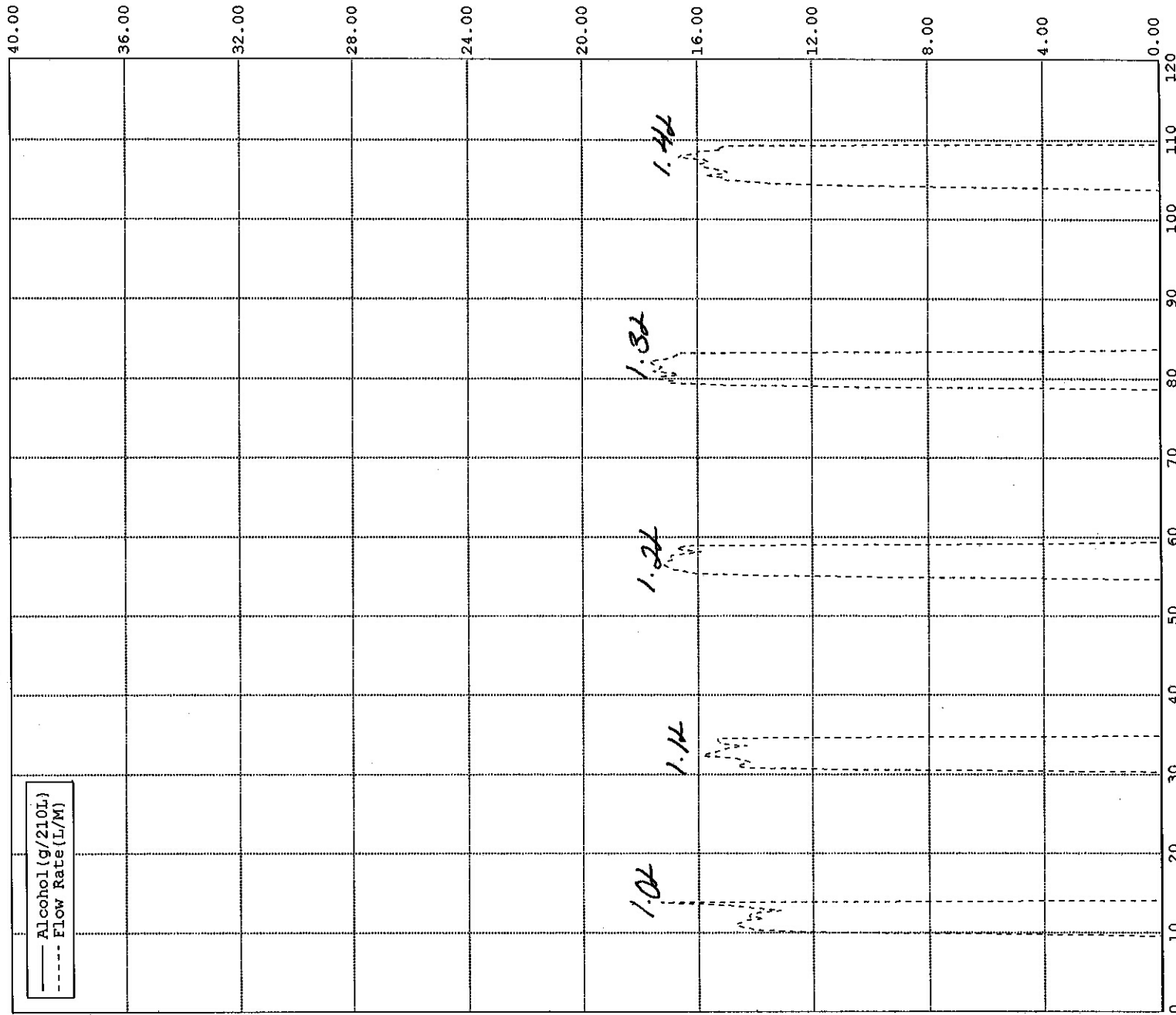
SUPERVISOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

LOT #: 11050
BOTTLE #: 705
EXPIRATION: 04/06/2013

Ca = 0.1000
CAL = 0.985054 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0032 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.0921 0.0500 <= Xq < 0.2000
a21 = 1.198555 1.050 <= a21 < 1.300
a31 = 0.468119 0.300 <= a31 < 0.800

0034/19

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



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100400

Date: 08/11/2011
 Time: 08:14:18

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

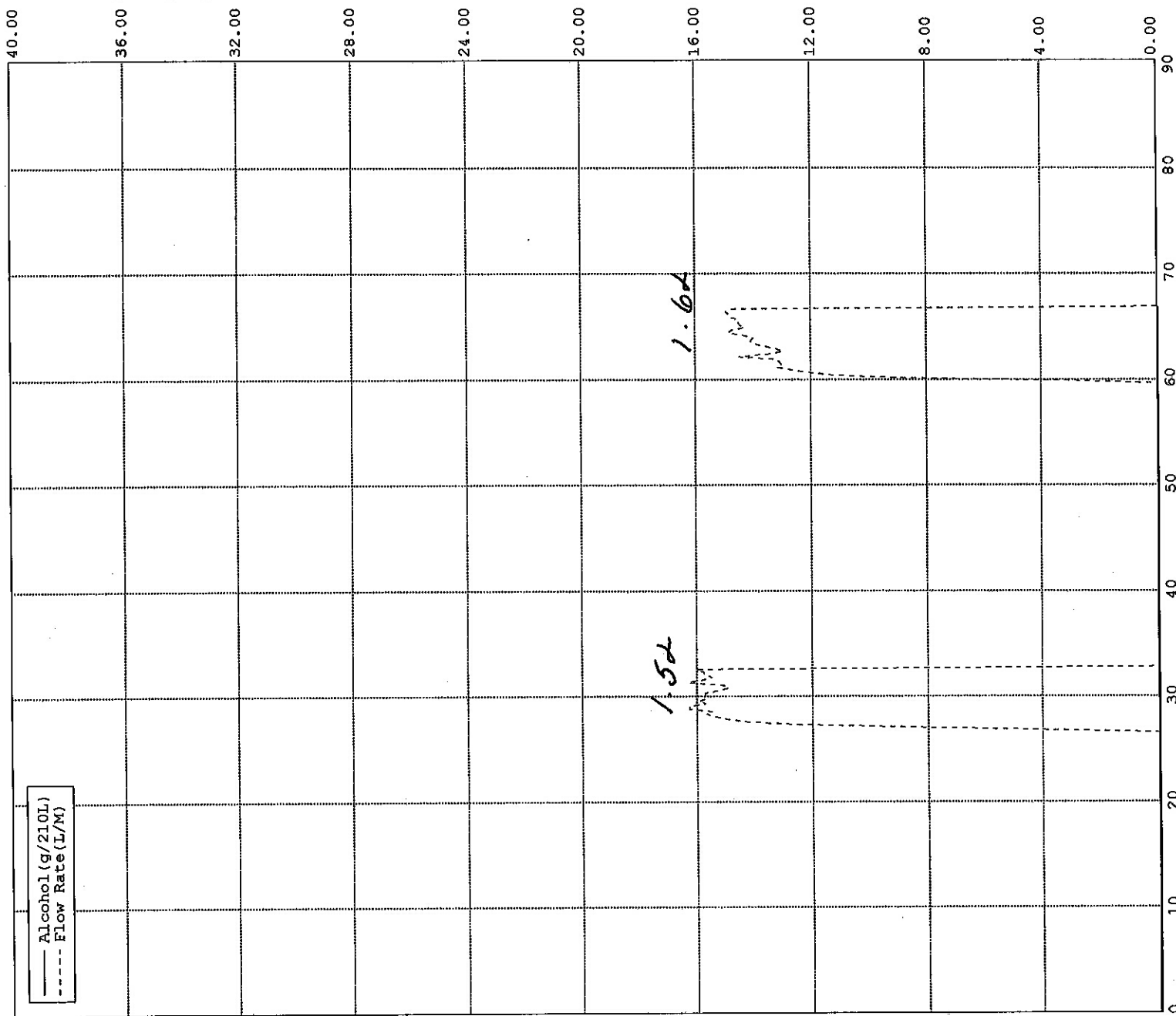
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.98: 0.080
 LOT #: 34409080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK
 BLANK TEST 08:15
 0.000
 INTERNAL STANDARD 08:15
 VERIFIED 08:15
 0.080
 EXTERNAL STANDARD 08:15
 0.000
 BLANK TEST 08:16
 SUBJECT SAMPLE INCOMPLETE 08:18

1000ml - 1400ml
 08/11/11

08/11/11



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100400

Date: 08/11/2011
 Time: 08:21:01

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

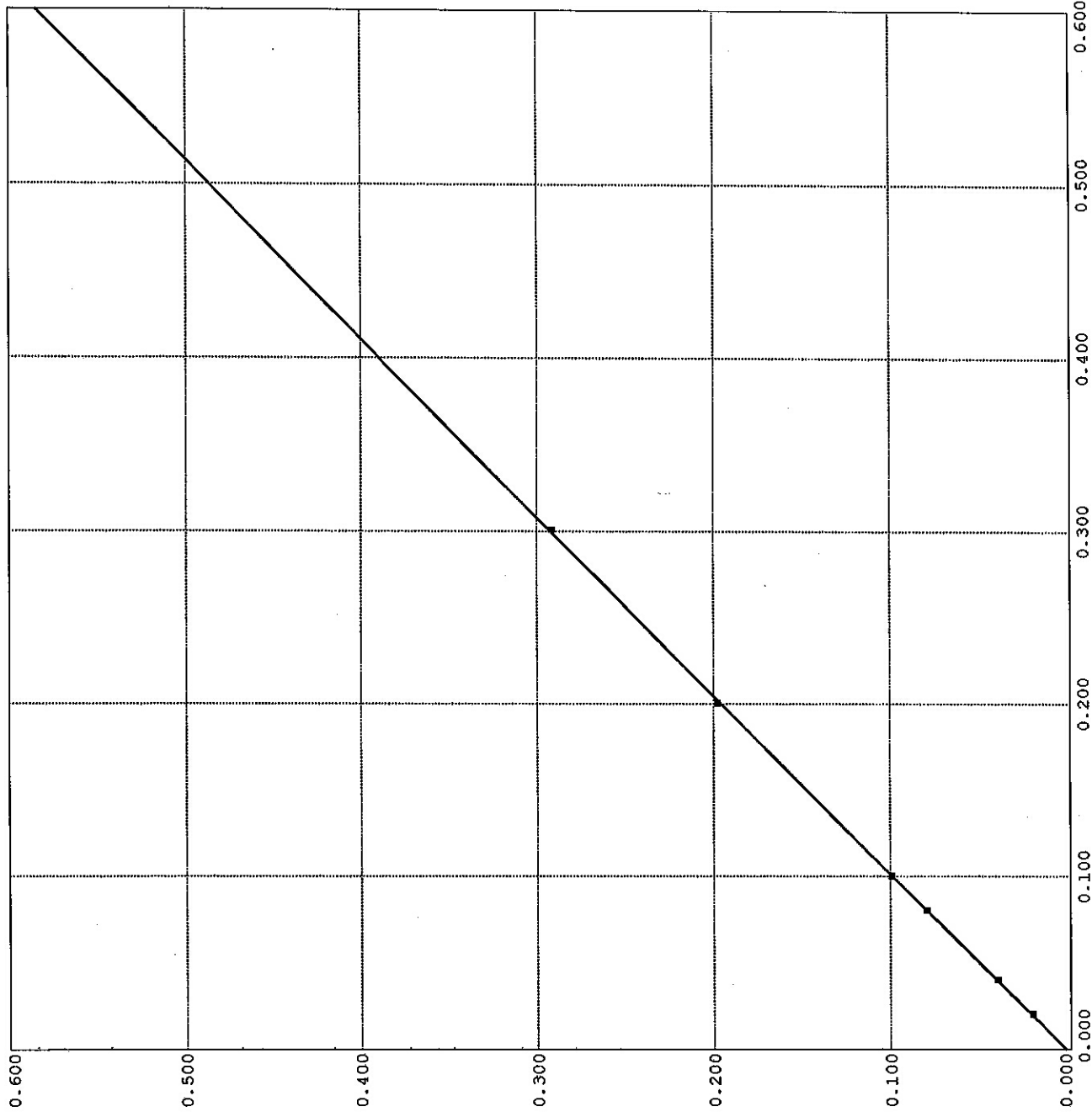
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.97: 0.080
 LOT #: 34409080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	08:22
BLANK TEST	0.000	08:22
INTERNAL STANDARD	VERIFIED	08:22
EXTERNAL STANDARD	0.081	08:22
BLANK TEST	0.000	08:23
SUBJECT SAMPLE	0.000	08:24
BLANK TEST	0.000	08:25
EXTERNAL STANDARD	0.080	08:25
BLANK TEST	0.000	08:26

1500ml - 1600ml
 (08/11/11)

08/9/11



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER Unit: 100400

Date: 08/11/2011
 Time: 12:04:24

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0216	0.0005
0.040	0.0412	0.0004
0.080	0.0806	0.0005
0.100	0.1002	0.0004
0.200	0.1986	0.0005
0.300	0.2924	0.0005

SLOPE = 0.969440
 R^2 = 0.999945

CB

CB 7/19

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100400

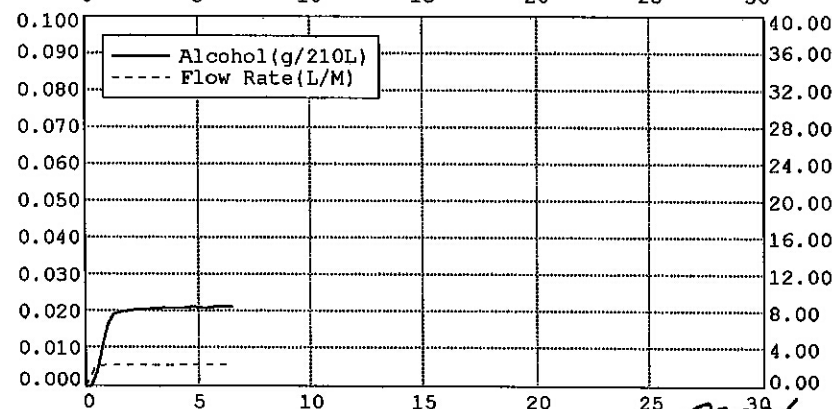
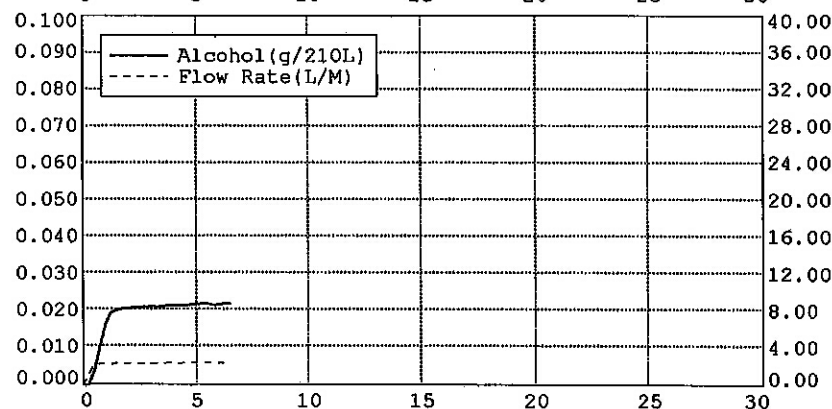
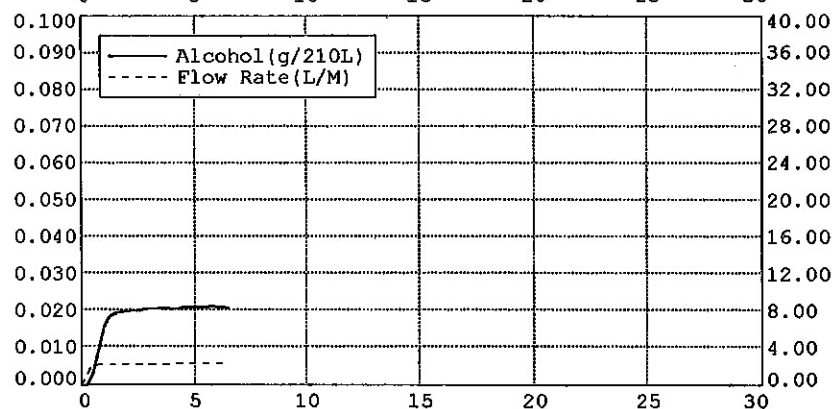
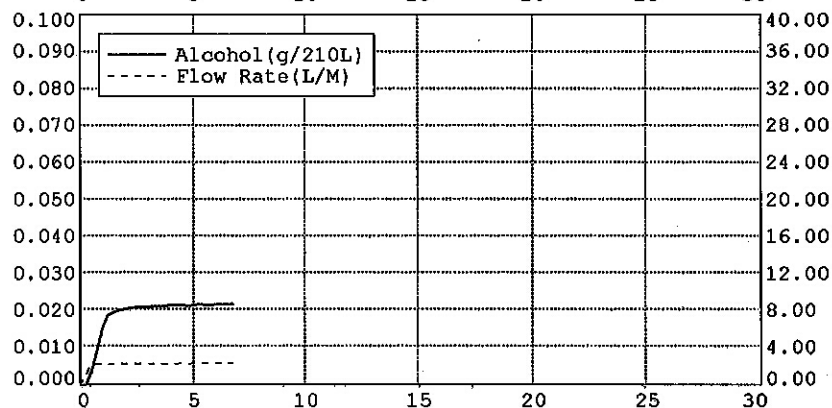
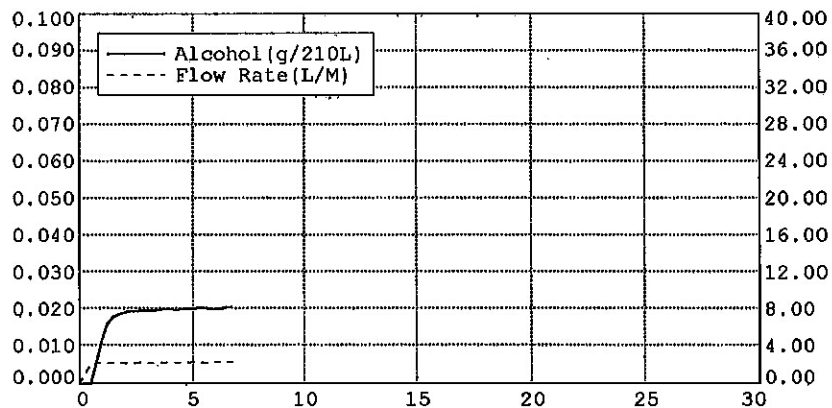
Date: 08/11/2011
Time: 12:04:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.96: 0.020
LOT #: 15210020A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	12:06
INTERNAL STANDARD	VERIFIED	12:06
EXTERNAL STANDARD	0.021	12:06
BLANK TEST	0.000	12:07
EXTERNAL STANDARD	0.022	12:07
BLANK TEST	0.000	12:08
EXTERNAL STANDARD	0.021	12:08
BLANK TEST	0.000	12:09
EXTERNAL STANDARD	0.022	12:09
BLANK TEST	0.000	12:10
EXTERNAL STANDARD	0.022	12:10
BLANK TEST	0.000	12:11

Average = 0.0216
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100400

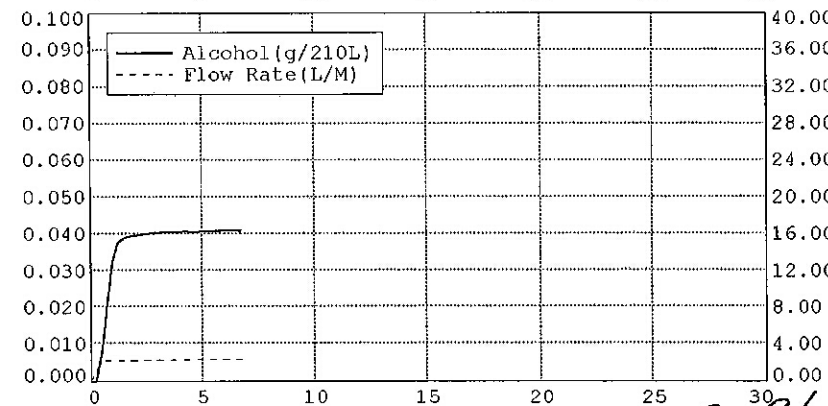
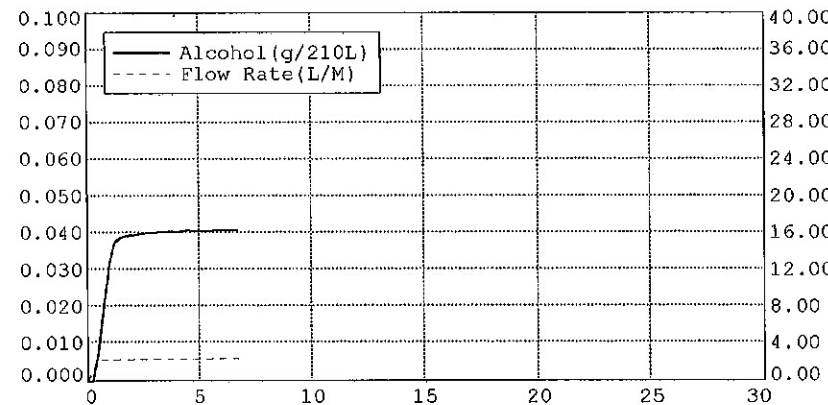
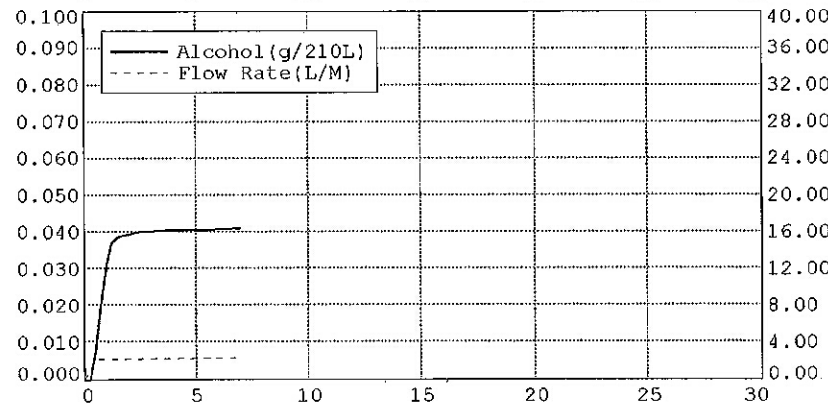
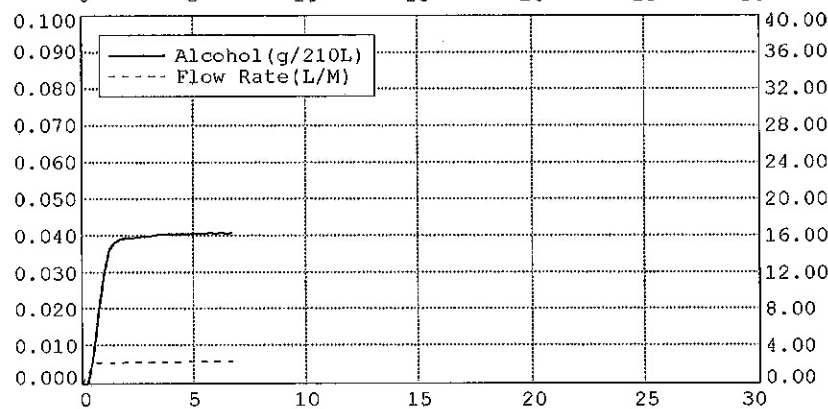
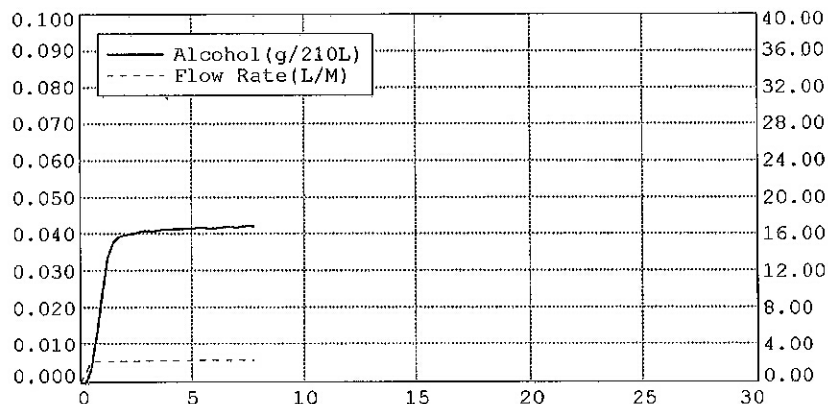
Date: 08/11/2011
Time: 12:14:43

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.96: 0.040
LOT #: 15210040A2
EXPIRATION: 07/01/2012

BLANK TEST	0.000	12:15
INTERNAL STANDARD	VERIFIED	12:15
EXTERNAL STANDARD	0.042	12:16
BLANK TEST	0.000	12:17
EXTERNAL STANDARD	0.041	12:17
BLANK TEST	0.000	12:18
EXTERNAL STANDARD	0.041	12:18
BLANK TEST	0.000	12:19
EXTERNAL STANDARD	0.041	12:19
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.041	12:20
BLANK TEST	0.000	12:21

Average = 0.0412
Std Dev = 0.0004



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LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100400

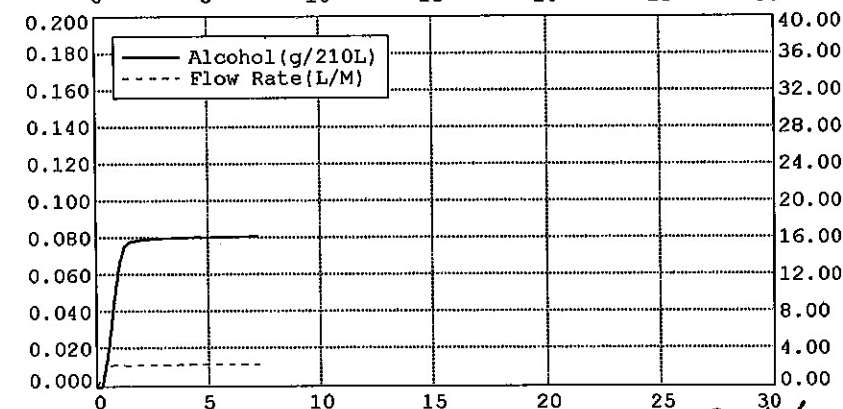
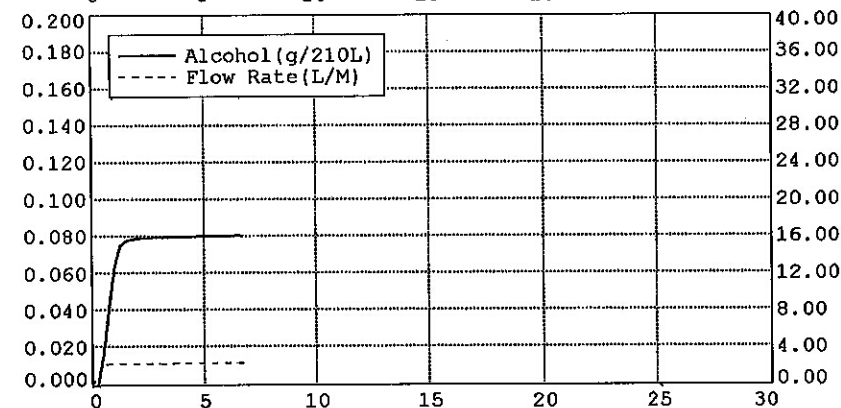
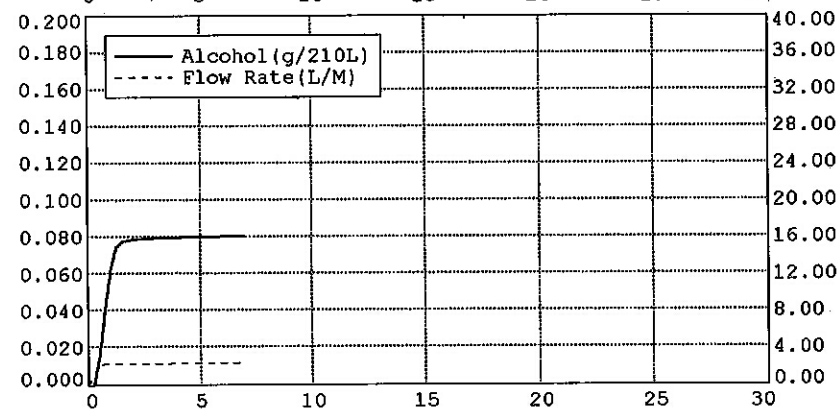
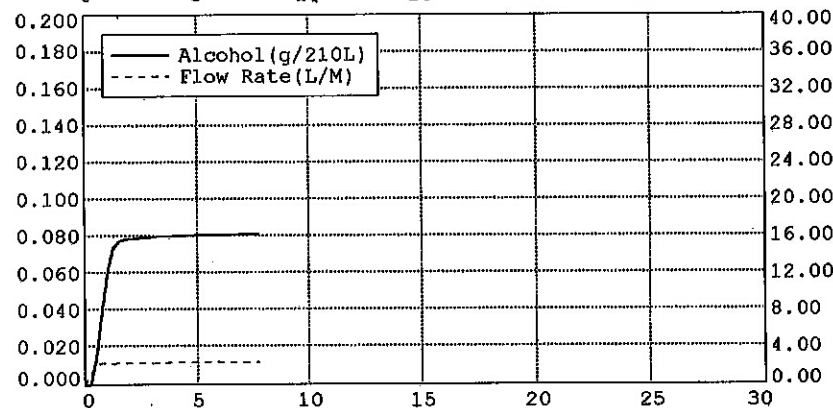
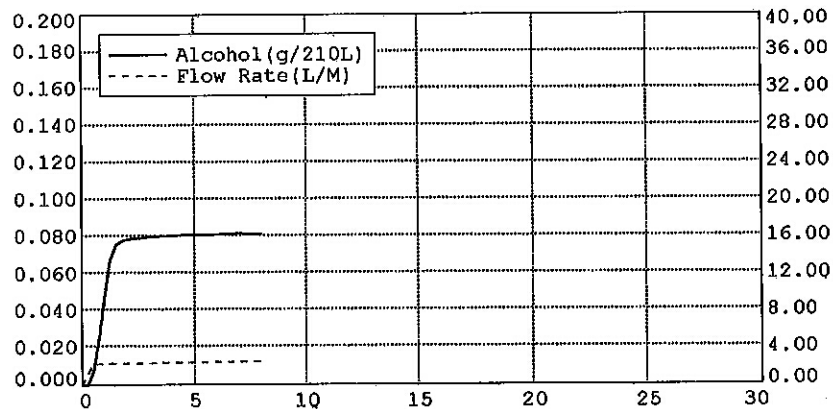
Date: 08/11/2011
Time: 12:22:22

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 34409080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	12:25
INTERNAL STANDARD	VERIFIED	12:25
EXTERNAL STANDARD	0.081	12:25
BLANK TEST	0.000	12:26
EXTERNAL STANDARD	0.081	12:26
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.080	12:27
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.080	12:28
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.081	12:30
BLANK TEST	0.000	12:30

Average = 0.0806
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100400

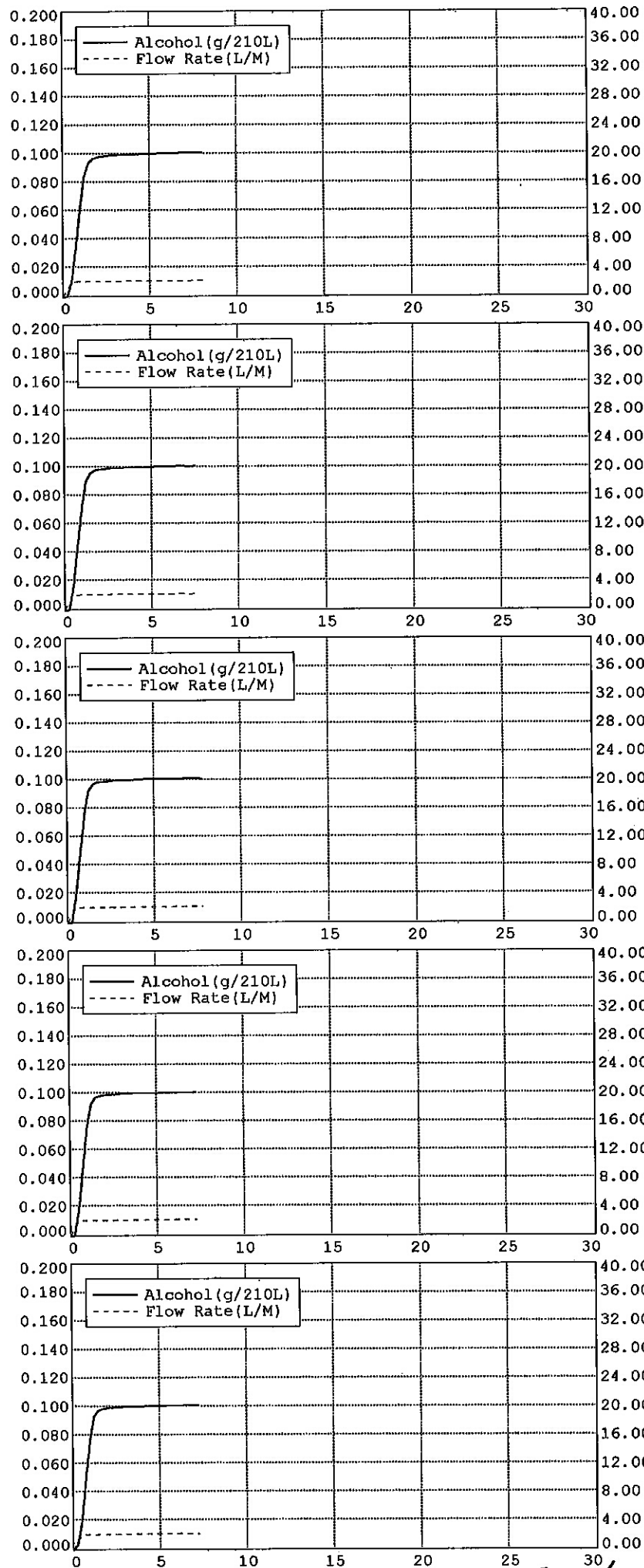
Date: 08/11/2011
Time: 12:34:11

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.96: 0.100
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:35
INTERNAL STANDARD	VERIFIED	12:35
EXTERNAL STANDARD	0.100	12:35
BLANK TEST	0.000	12:36
EXTERNAL STANDARD	0.100	12:36
BLANK TEST	0.000	12:37
EXTERNAL STANDARD	0.101	12:37
BLANK TEST	0.000	12:38
EXTERNAL STANDARD	0.100	12:38
BLANK TEST	0.000	12:39
EXTERNAL STANDARD	0.100	12:40
BLANK TEST	0.000	12:41

Average = 0.1002
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100400

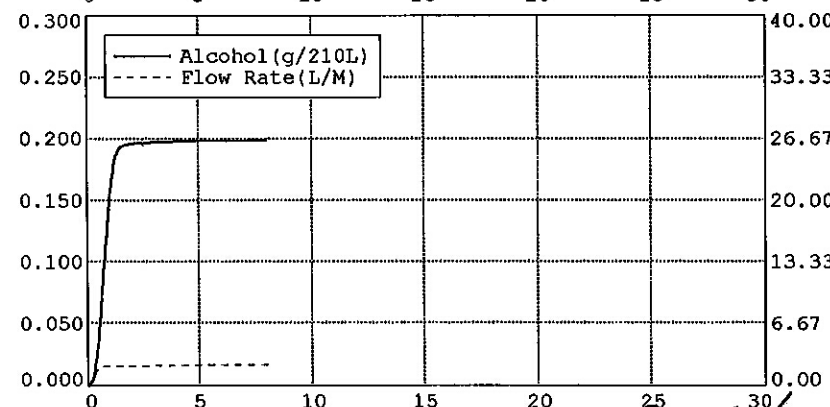
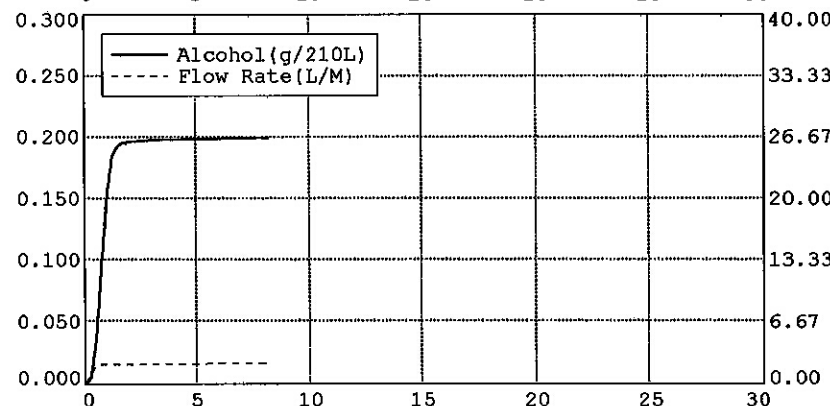
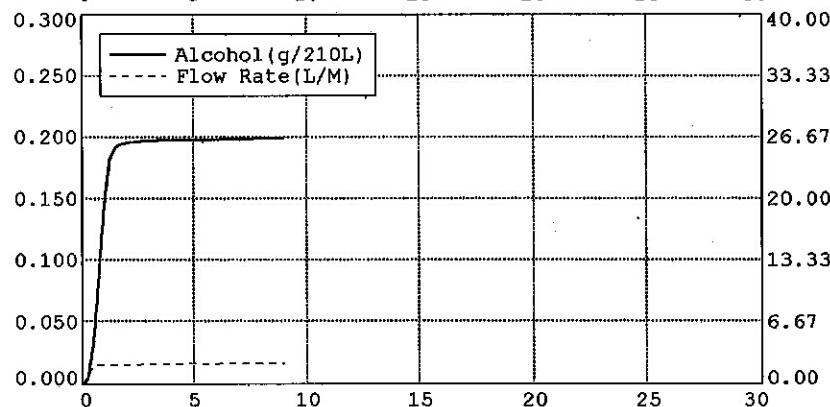
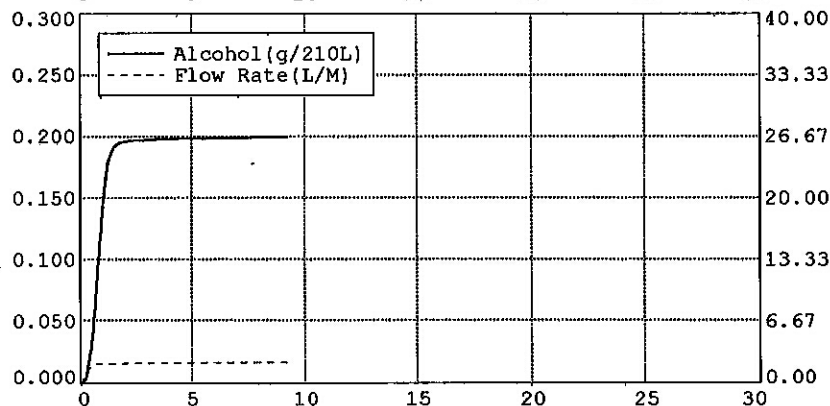
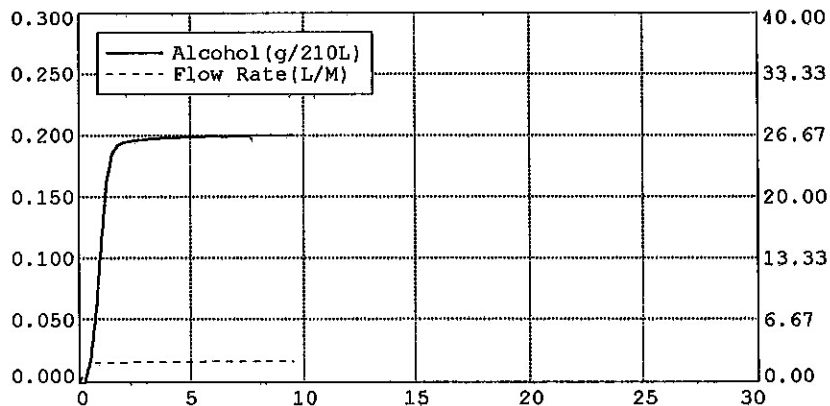
Date: 08/11/2011
Time: 12:41:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.96: 0.200
LOT #: 07411200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:43
INTERNAL STANDARD	VERIFIED	12:43
EXTERNAL STANDARD	0.199	12:43
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.199	12:44
BLANK TEST	0.000	12:45
EXTERNAL STANDARD	0.198	12:45
BLANK TEST	0.000	12:46
EXTERNAL STANDARD	0.199	12:47
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.198	12:48
BLANK TEST	0.000	12:49

Average = 0.1986
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100400

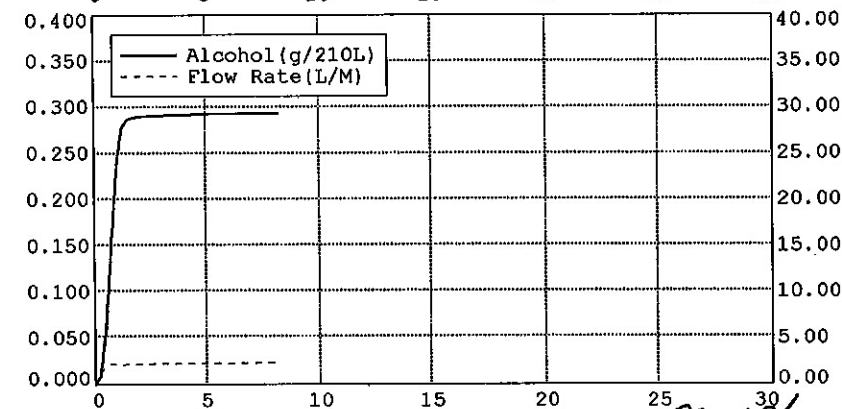
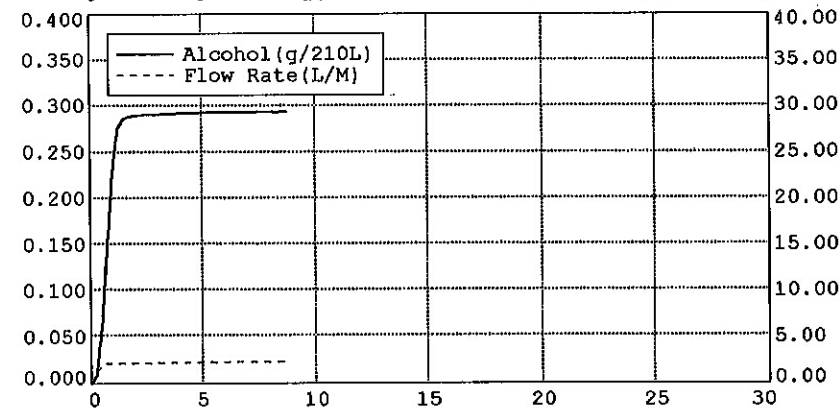
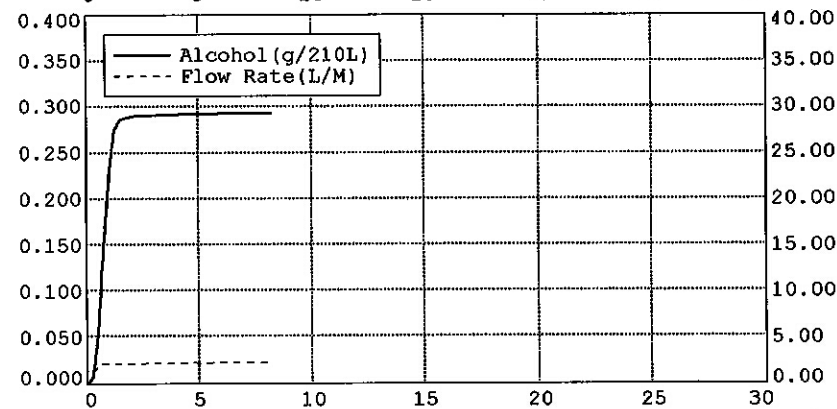
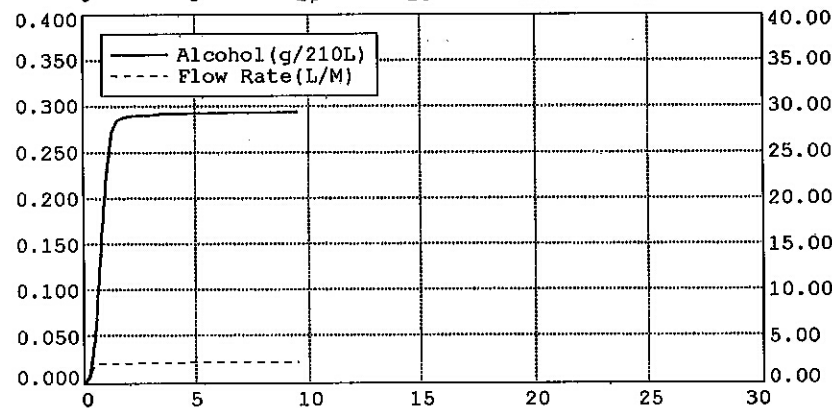
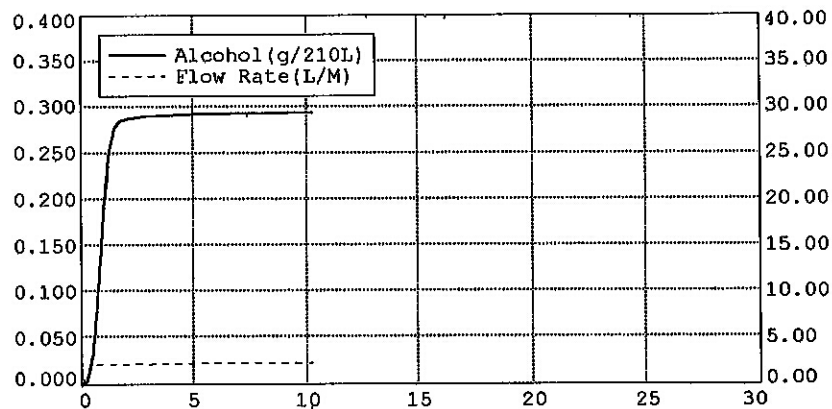
Date: 08/11/2011
Time: 12:49:27

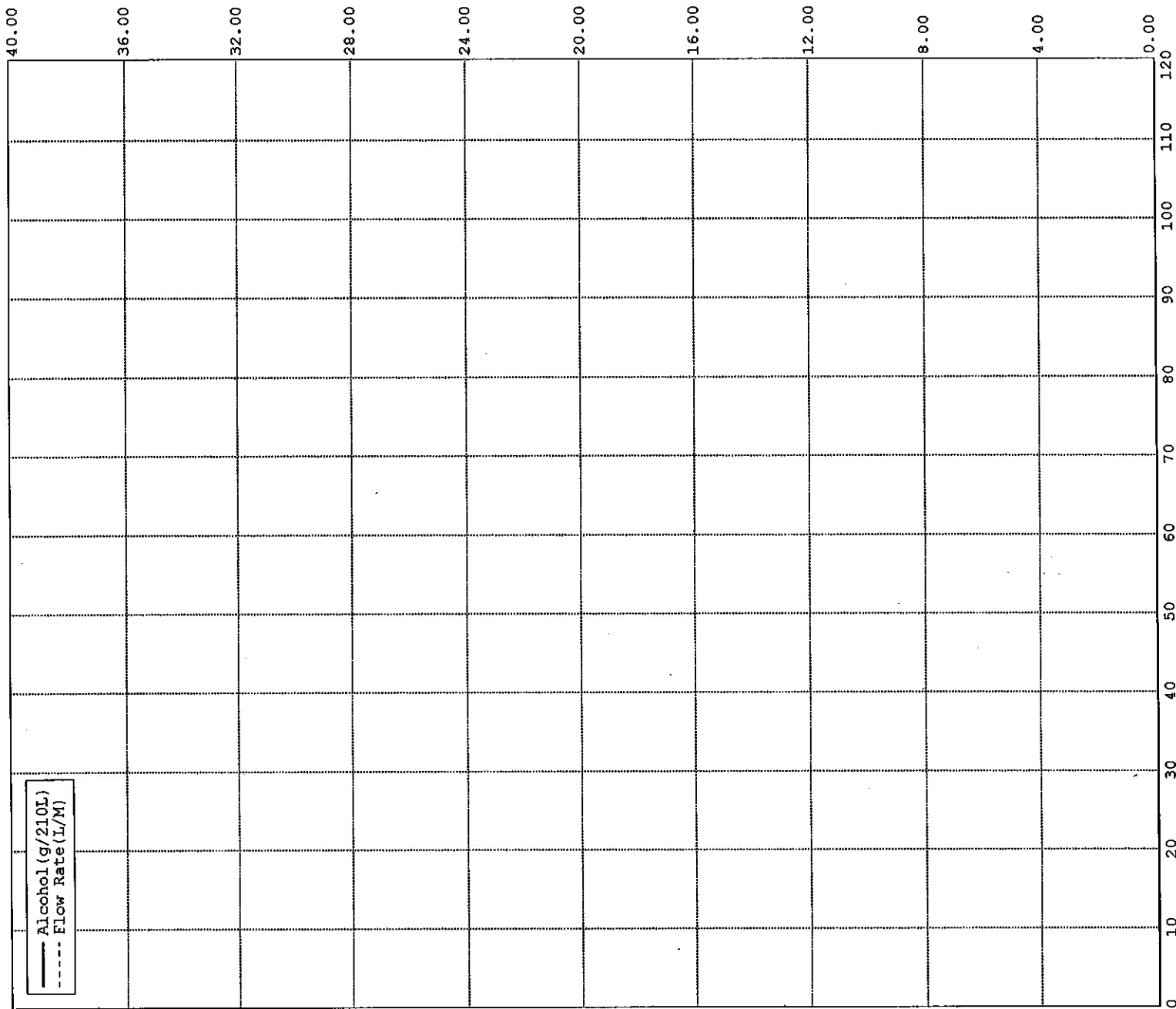
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.95: 0.300
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:51
INTERNAL STANDARD	VERIFIED	12:51
EXTERNAL STANDARD	0.293	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.293	12:53
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.292	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.292	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.292	12:56
BLANK TEST	0.000	12:57

Average = 0.2924
Std Dev = 0.0005





SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 08/11/2011
Time: 13:01:53

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 29.95: 0.080

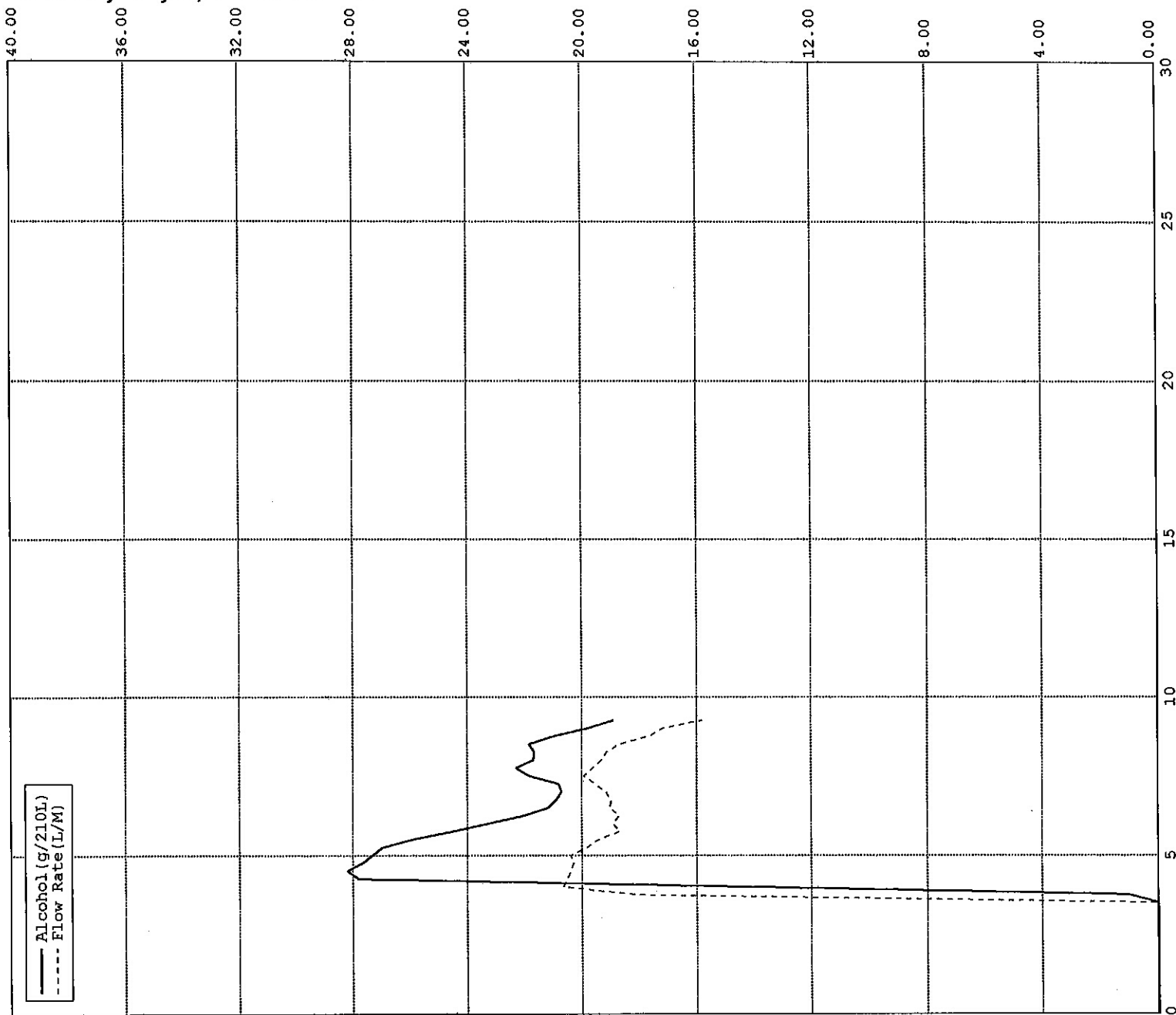
LOT #: 34409080A1

EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	13:02
BLANK TEST	0.000	13:03
INTERNAL STANDARD	VERIFIED	13:03
EXTERNAL STANDARD	0.082	13:03
BLANK TEST	0.000	13:04
SUBJECT SAMPLE	INCOMPLETE	13:06

CB

08/14/19



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100400

Date: 08/11/2011

Time: 14:43:17

SUBJECT NAME:

TEST TEST

LICENSE #: INVALID

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 11-12343

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.92: 0.080

LOT #: 34409080A1

EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

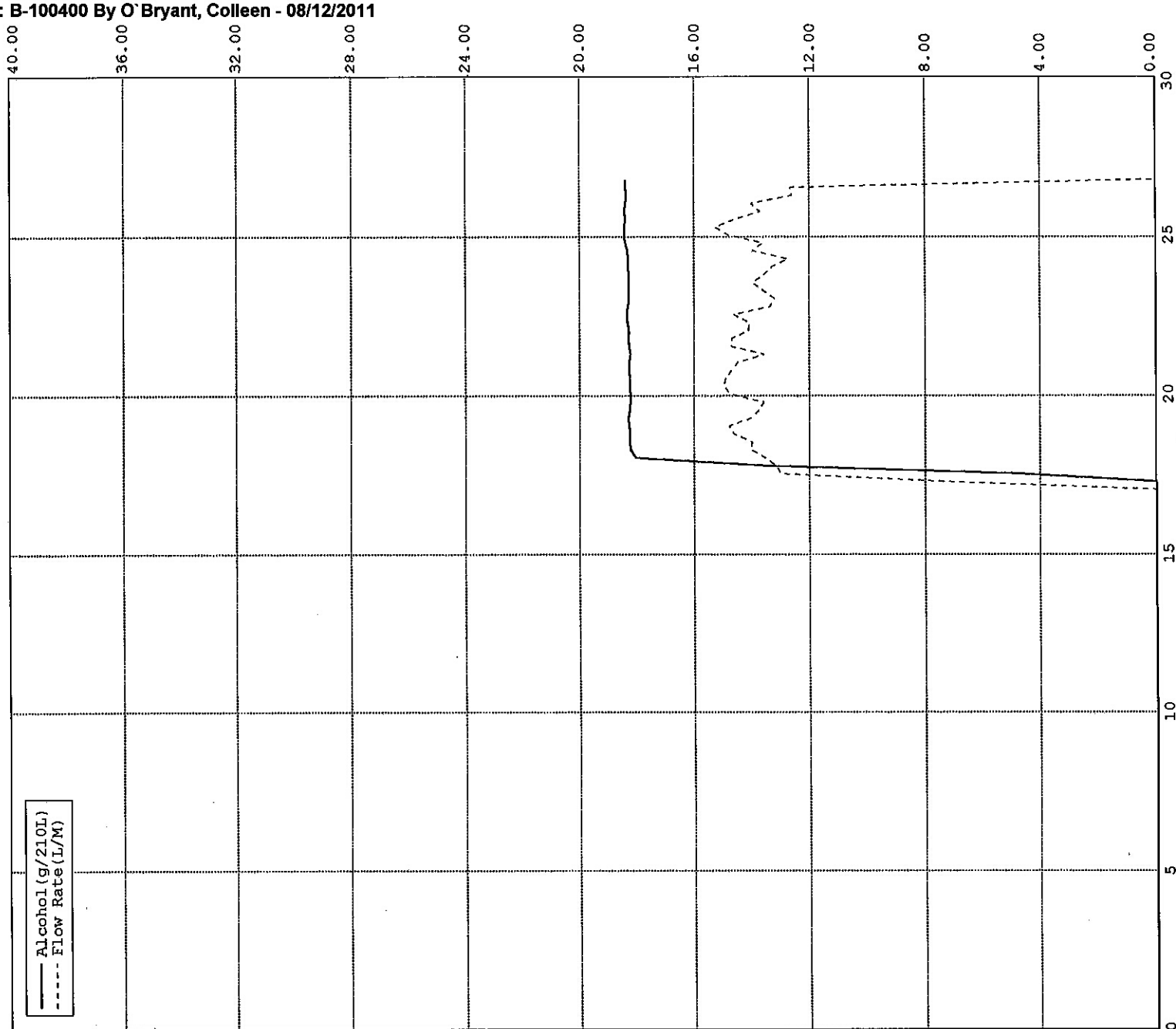
BLANK TEST

SUBJECT SAMPLE

PASSED	14:44
0.000	14:44
VERIFIED	14:44
0.081	14:44
0.000	14:45
Invalid	14:46

CNS

08/15/11



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100400

Date: 08/11/2011

Time: 15:34:04

SUBJECT NAME:

TEST TEST

LICENSE #: INTF-ACETONE

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 29.91: 0.079

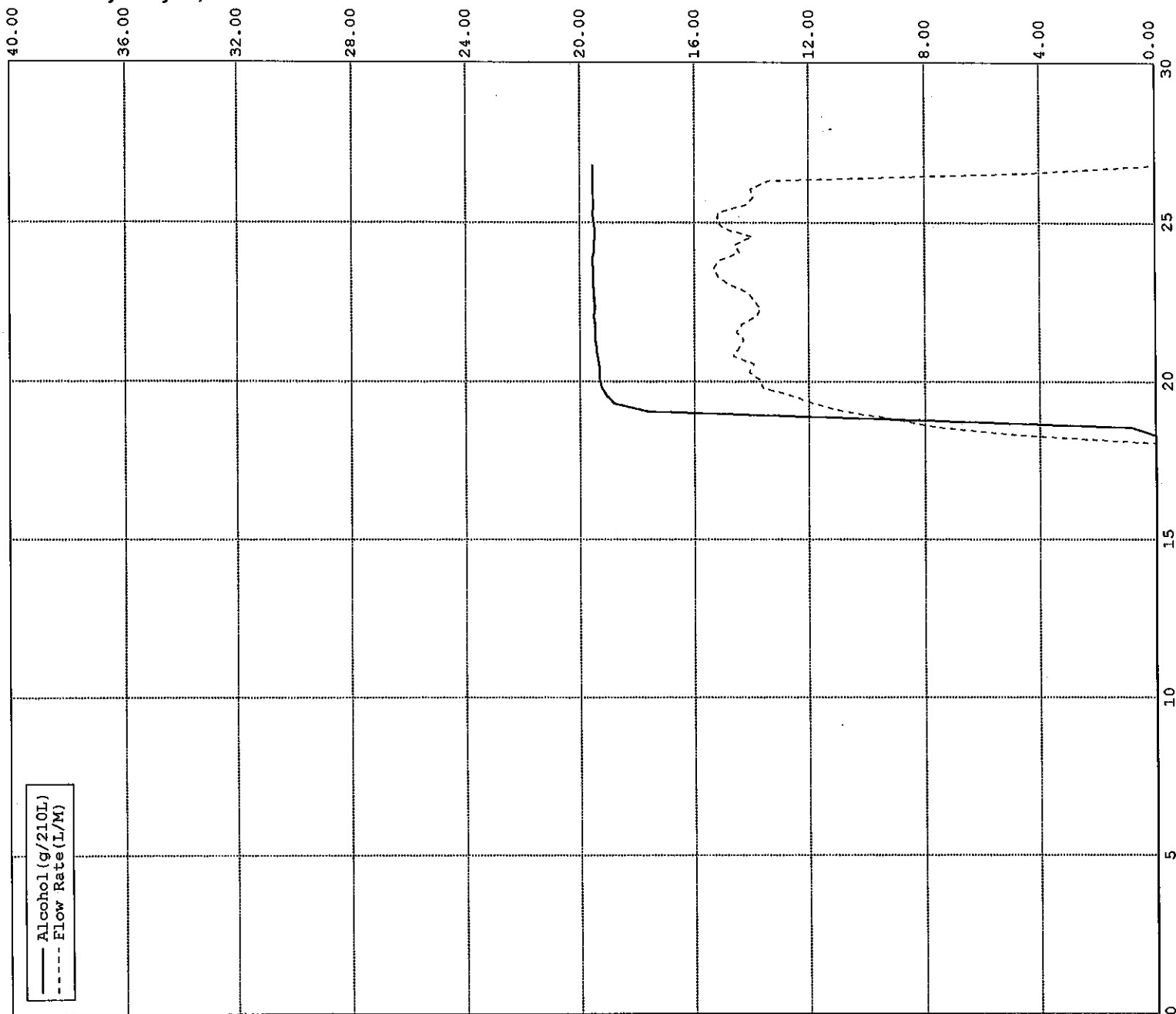
LOT #: 34409080A1

EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	15:35
BLANK TEST	0.000	15:35
INTERNAL STANDARD	VERIFIED	15:35
EXTERNAL STANDARD	0.081	15:35
BLANK TEST	0.000	15:36
SUBJECT SAMPLE	INTERFERENCE	15:37

CAB

CAB 16/19



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 08/11/2011
Time: 15:28:46

SUBJECT NAME:
TEST TEST
LICENSE #: INTF-ISOP

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

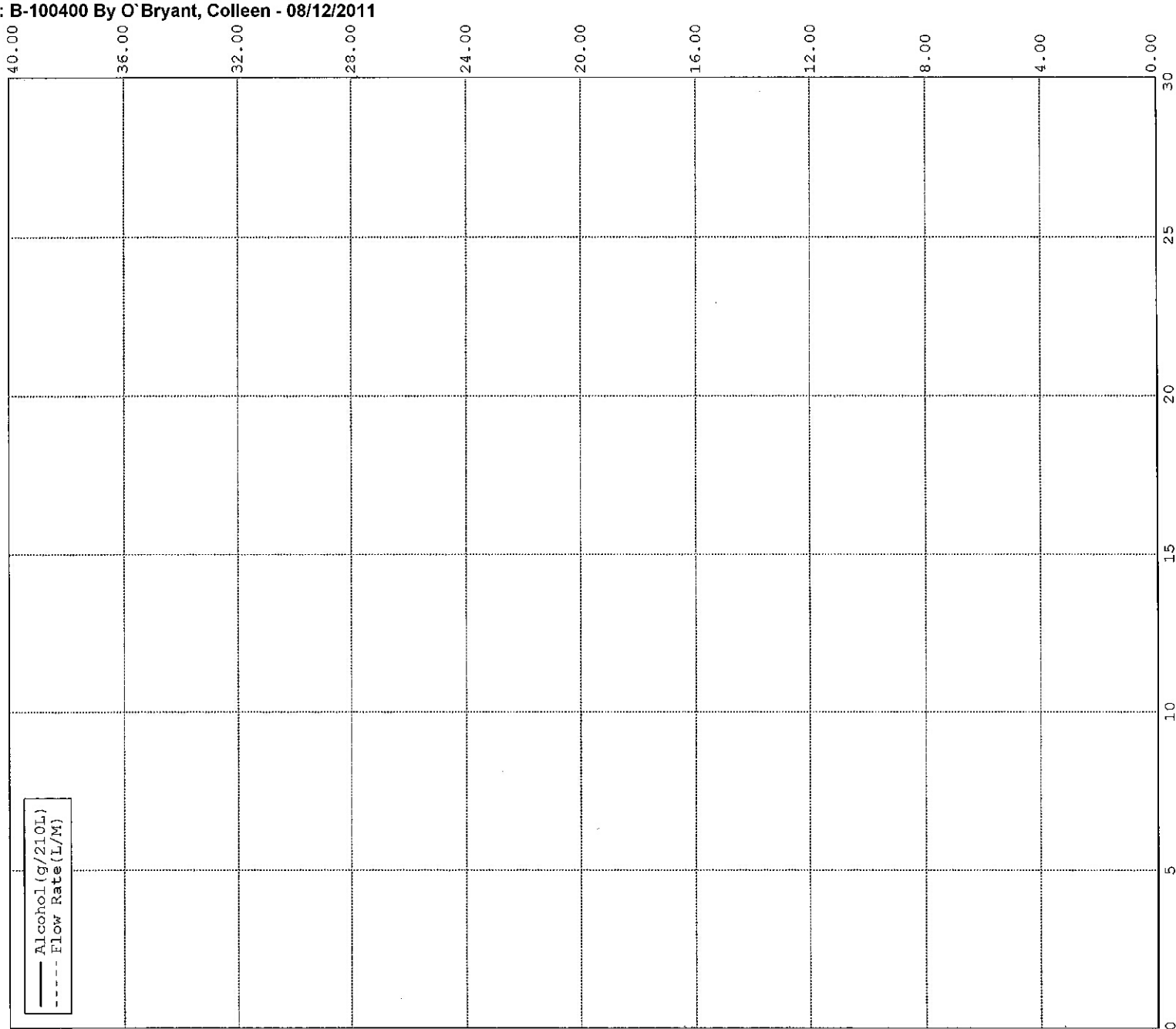
DEPT/AGENCY:
AA1
CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.079
LOT #: 34409080AL
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK
BLANK TEST 0.000 PASSED 15:29
INTERNAL STANDARD 0.081 VERIFIED 15:30
EXTERNAL STANDARD 0.000 15:30
BLANK TEST 0.000 15:31
SUBJECT SAMPLE INTERFERENCE 15:31

CB

CB 11/19



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100400

Date: 08/11/2011

Time: 15:19:24

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 29.92: 0.080

LOT #: 34409080A1

EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

PASSED 15:20

0.000

VERIFIED 15:20

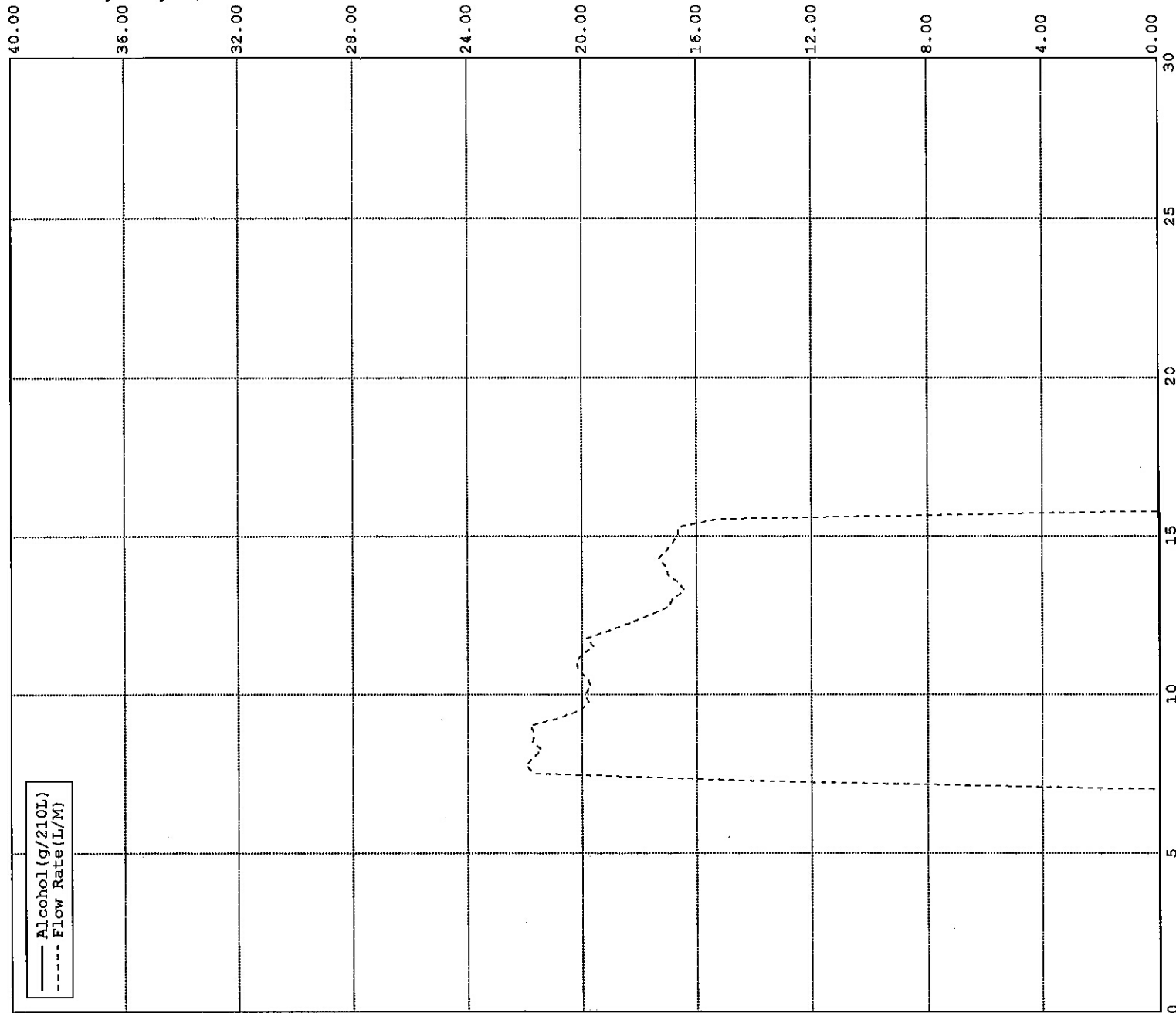
0.081 15:20

0.000 15:21

RFI Detected

08/18/19

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 08/11/2011
Time: 15:42:23

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 29.92: 0.079
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	15:43
BLANK TEST	0.000	15:43
INTERNAL STANDARD	VERIFIED	15:43
EXTERNAL STANDARD	0.081	15:43
BLANK TEST	0.000	15:44
SUBJECT SAMPLE	0.000	15:45
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.081	15:46
BLANK TEST	0.000	15:47

CB

CB 12/19

Final page for report

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8/21/2013