

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 01/27/2012

Version: DMCEF2012 R0

Effective: 01/27/2012

Status: Active

Instrument S/N 100357Analyst Colleen O'BryantStart Date 3/22/12Confirmed software updated (2.00) and instrument back vented.
Diagnostic Test (attached) ☒ +USB FX COB 3/22/12

1. Voltage Checks

a. Adjust voltages, if needed ☒

i. Lamp (2.6V Maximum)

ii. Bias (80V)

iii. Cooler (2.0V Maximum)

iv. Chopper Frequency

v. Detector Voltage (-0.100V
to 0.100V)b. Set RFI ☒c. Adjust barometer reading to match NIST traceable barometer ☒d. Adjust volume setting, if needed (1.5L +/- 0.1L) ☒

e. Print Technician Screen (attached)

2. Print Calibration Factors (attached)

3. Volume Test - Minimum 1600 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 03/01/2013ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 03/01/2013iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 03/01/2013v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/20131. Simulator S/N SD1176 Date Calibrated 08/17/2011vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/13/20131. Simulator S/N SD1202 Date Calibrated 08/17/2011

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/20131. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/20121. Simulator S/N DR6267 Date Calibrated 01/10/2012d. RFI ☒6. Verify stylus is calibrated ☒10. Verification of Calibration ☒7. Verify card reader is functional ☒11. Non-Drinking Subject Test (attached) ☒8. Reset Options ☒12. Upload ☒9. Clear Memory ☒13. Update agency information and polling
status in DM Host Calling Program ☒End Date 3/23/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt; 100357

Date: 03/22/2012
Time: 11:35:42

VERSIONS

DMT: 2.00
PIC: 3.01
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 44.4°C	PASSED

PUMP INFO

Flow Rate = 5.577 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: 100357

Date: 03/22/2012
Time: 11:43 AM

Temperatures (°C)

Sample Cell: 49.2°C
Breath Tube: 43.1°C

Current Barometer 29.9 in
Volume (Ltr) 1.53

Settings

Lamp: 1.80 V
Bias: 81 V
Cooler: 1.76 V
Chopper: 524 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.013 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100357

Date: 03/12/2012
Time: 13:13:34

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca = 0.1000
CAL = 0.965901 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0066 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0881 0.0500 <= Xq < 0.2000
a21 = 1.170269 1.050 <= a21 < 1.300
a31 = 0.519962 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100357

Date: 03/22/2012
Time: 11:46:56

SUBJECT NAME:
TEST TEST
LICENSE #: 123456

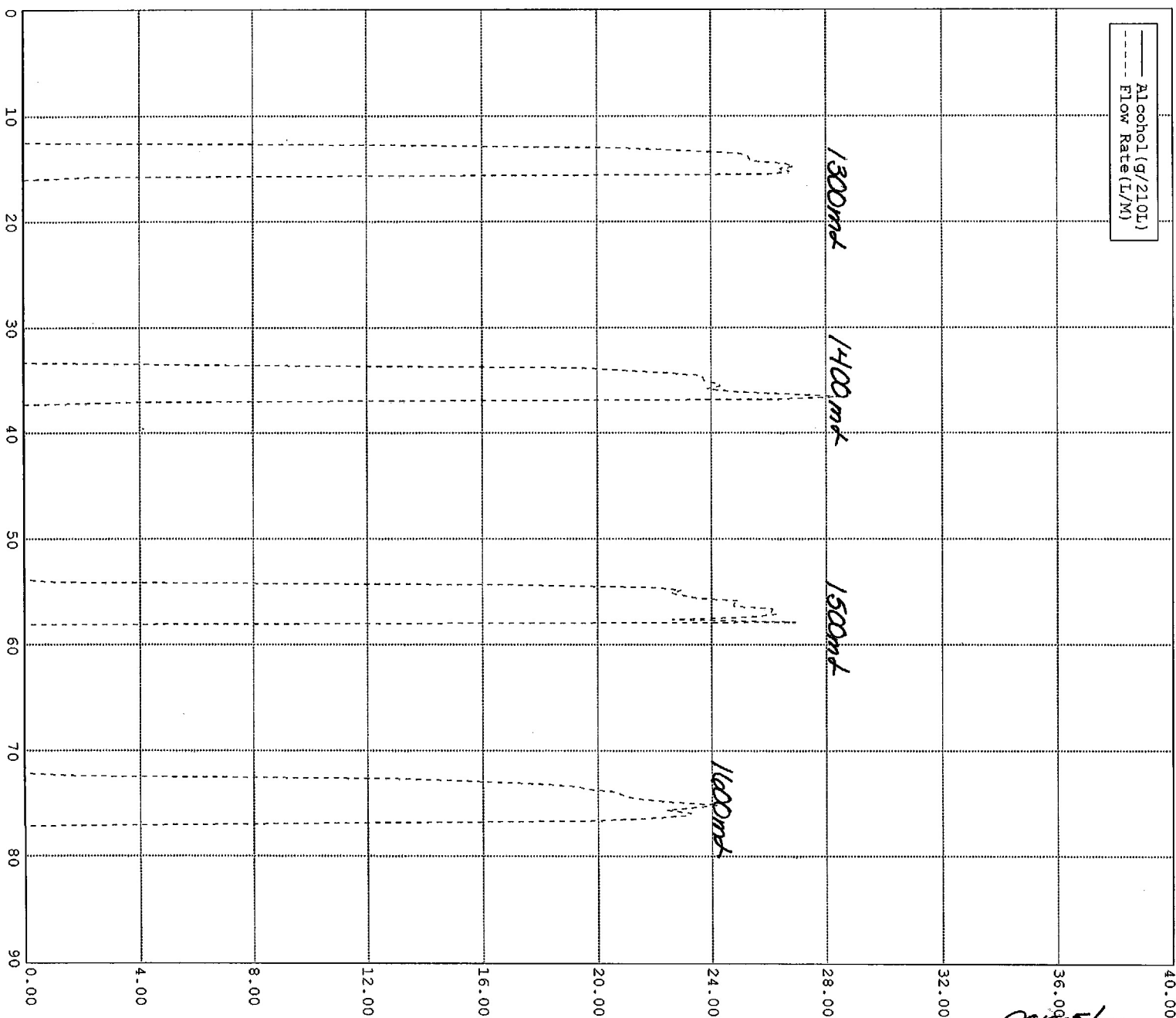
OPERATOR NAME:
VOLUME TEST VOLUME TEST
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.90: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:47
BLANK TEST	0.000	11:48
INTERNAL STANDARD	VERIFIED	11:48
EXTERNAL STANDARD	0.078	11:48
BLANK TEST	0.000	11:49
SUBJECT SAMPLE	0.000	11:50
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.078	11:51
BLANK TEST	0.000	11:52

OK 3/22/12



LINEARITY CHECK

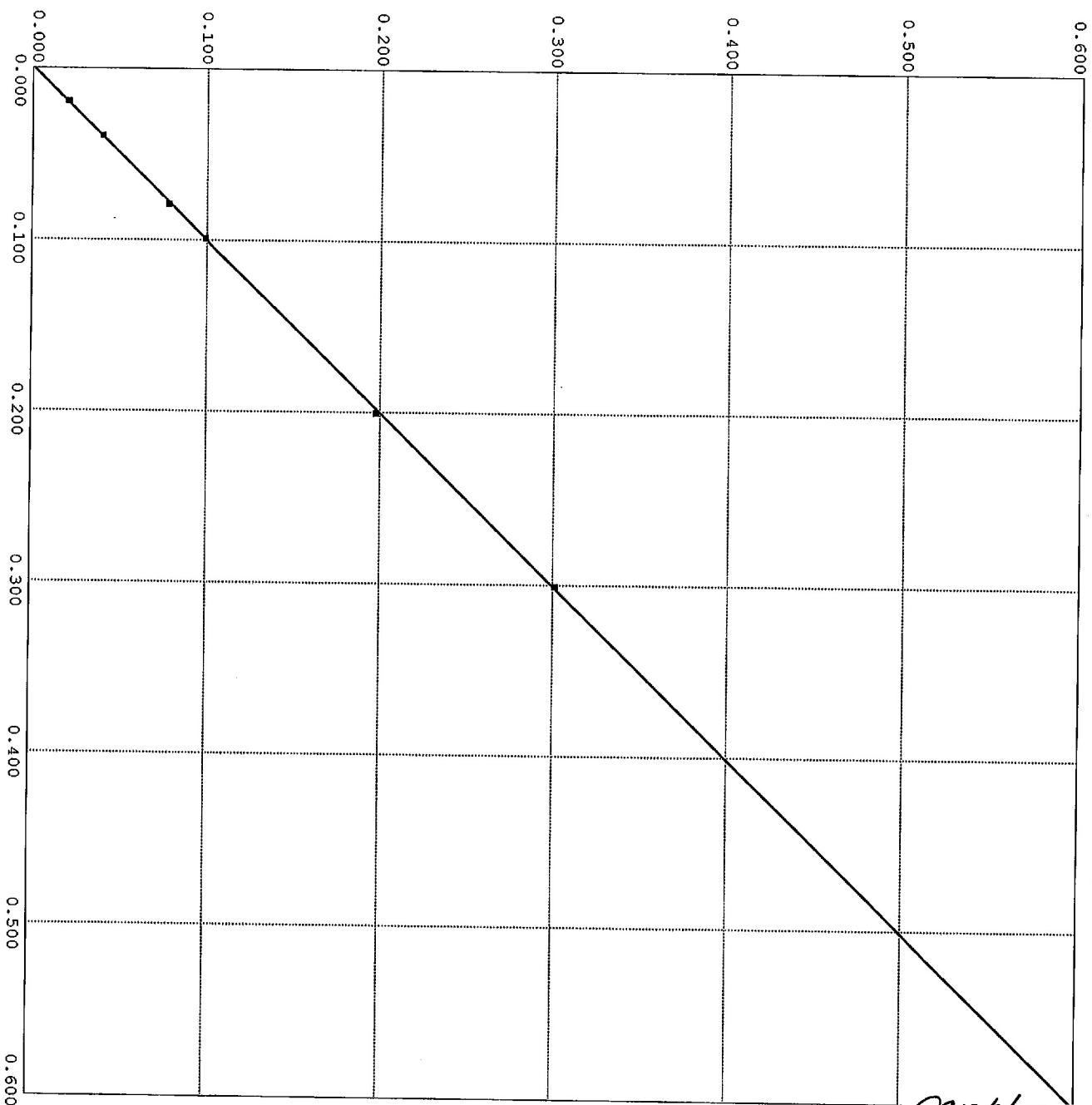
Alaska Department of Public Safety
 DATA MASTER dmt: 100357

Date: 03/22/2012
 Time: 11:56:33

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0210	0.0000
0.039	0.0405	0.0002
0.079	0.0784	0.0001
0.099	0.1004	0.0002
0.200	0.1985	0.0010
0.300	0.3018	0.0003

SLOPE = 0.997492
 R^2 = 0.999826



0035/2013

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100357

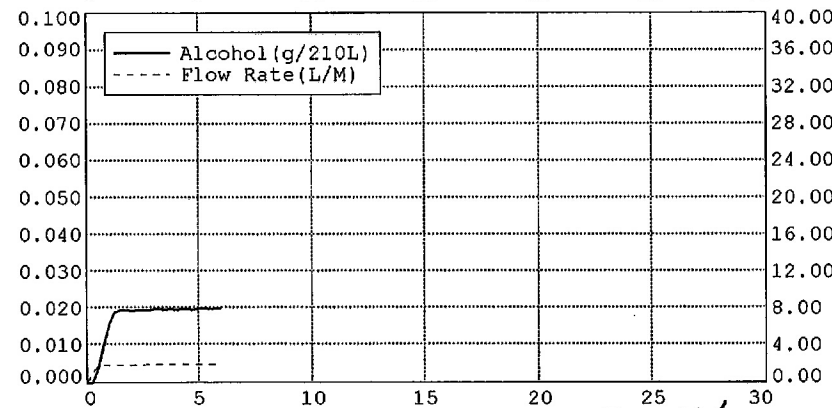
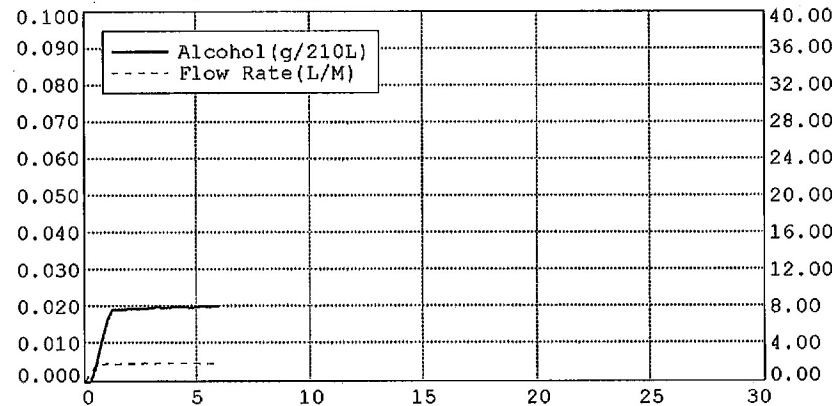
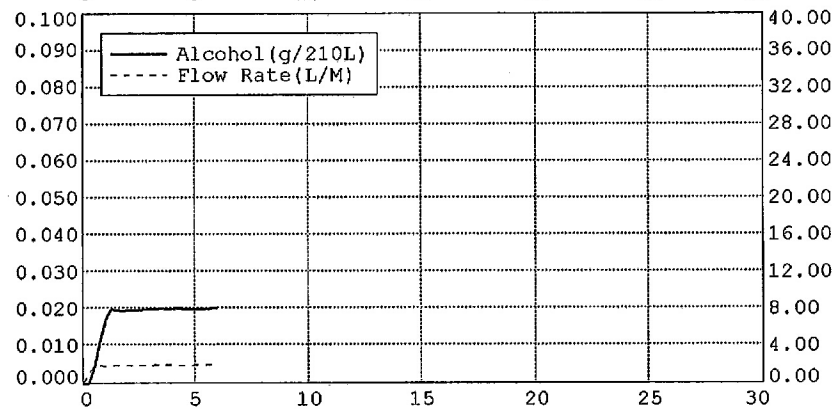
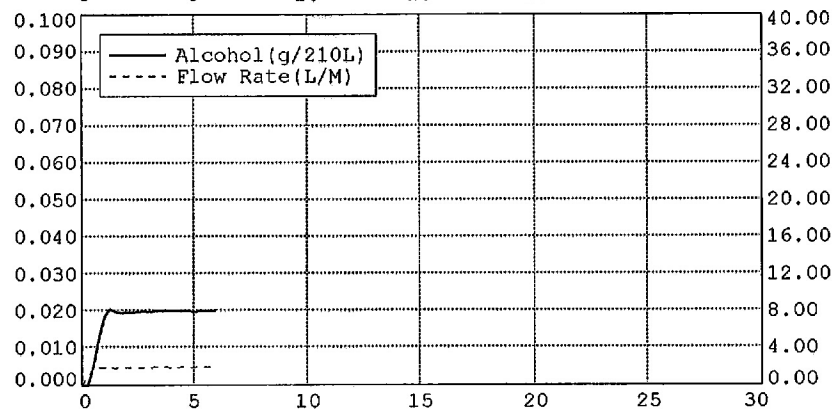
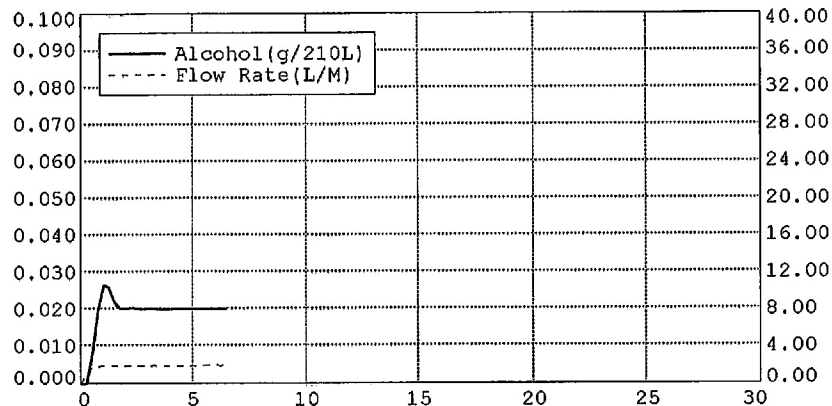
Date: 03/22/2012
Time: 11:59:11

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.91: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:00
INTERNAL STANDARD	VERIFIED	12:00
EXTERNAL STANDARD	0.021	12:00
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.021	12:01
BLANK TEST	0.000	12:02
EXTERNAL STANDARD	0.021	12:02
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.021	12:04
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.021	12:05
BLANK TEST	0.000	12:06

Average = 0.0210
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100357

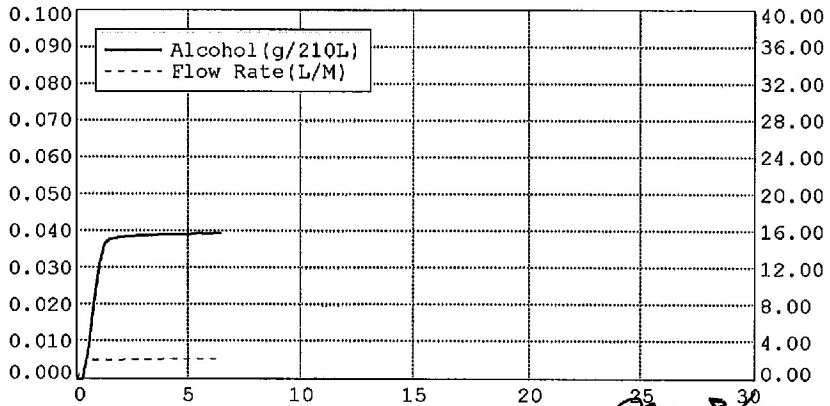
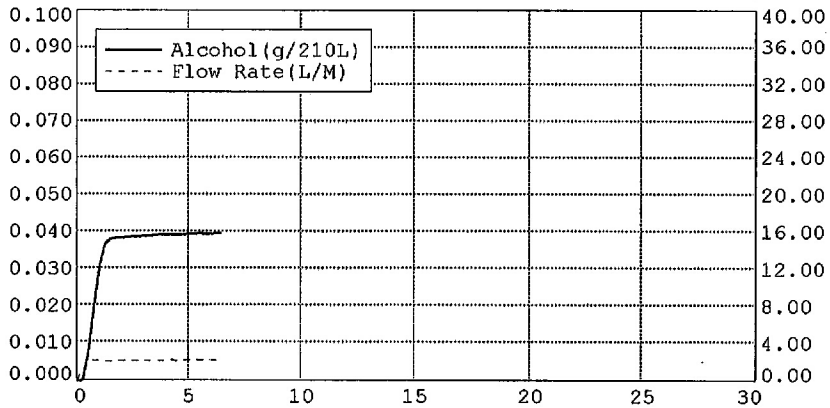
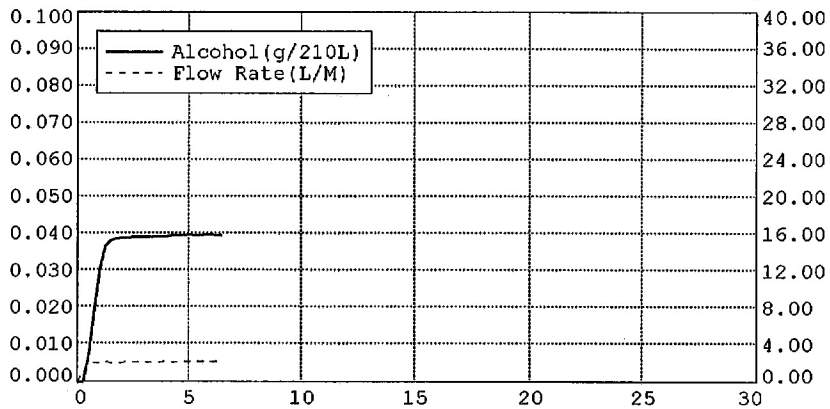
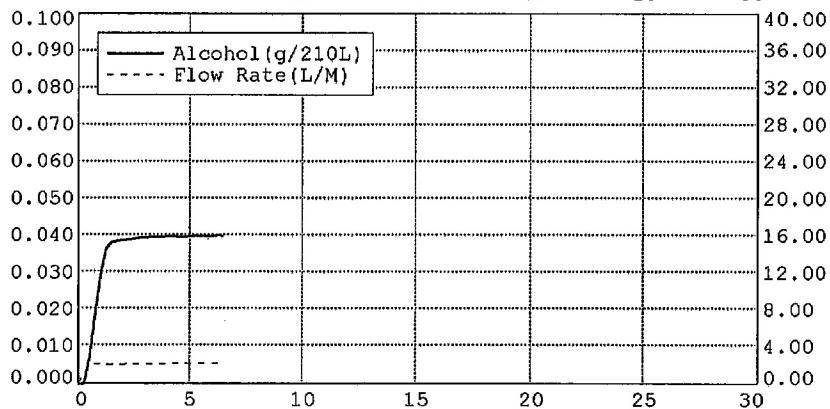
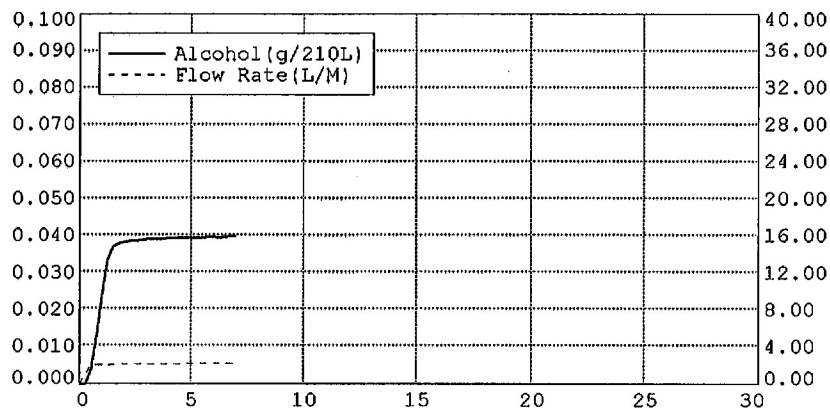
Date: 03/22/2012
Time: 12:09:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.91: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:10
INTERNAL STANDARD	VERIFIED	12:10
EXTERNAL STANDARD	0.040	12:10
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.040	12:11
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.040	12:13
BLANK TEST	0.000	12:14
EXTERNAL STANDARD	0.040	12:14
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.040	12:15
BLANK TEST	0.000	12:16

Average = 0.0405
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100357

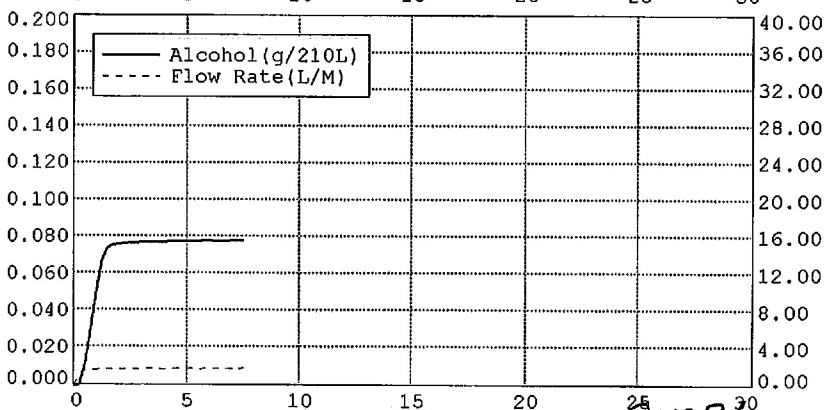
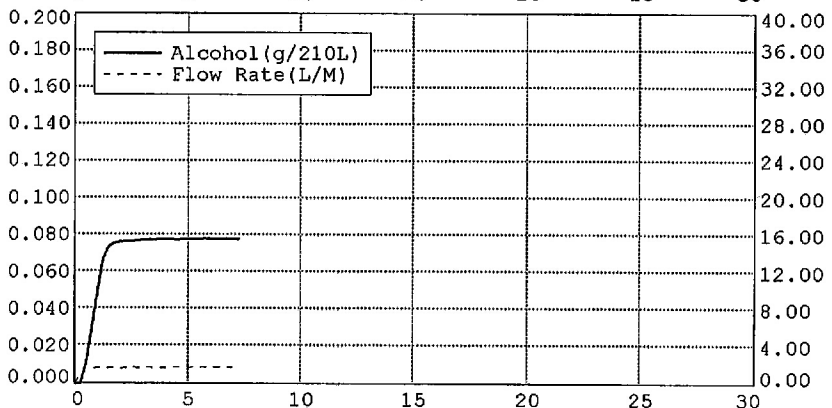
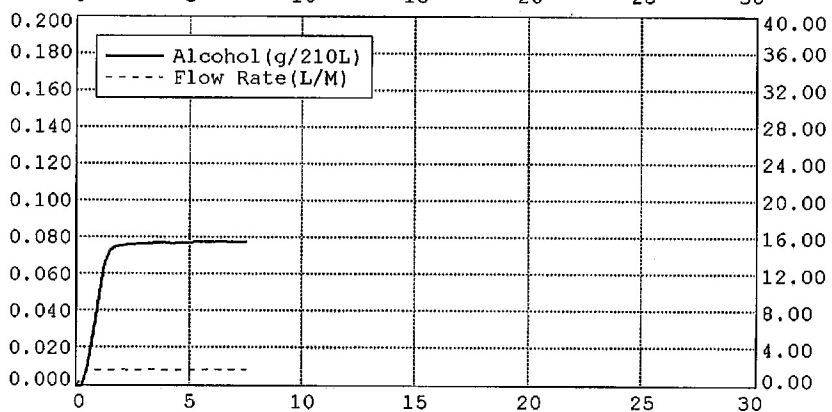
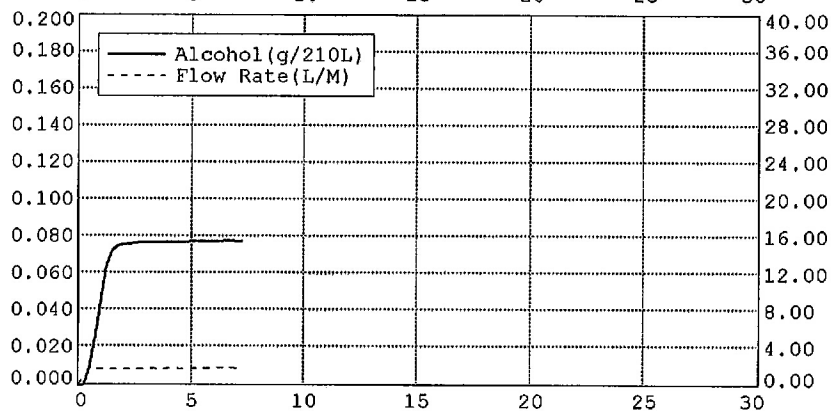
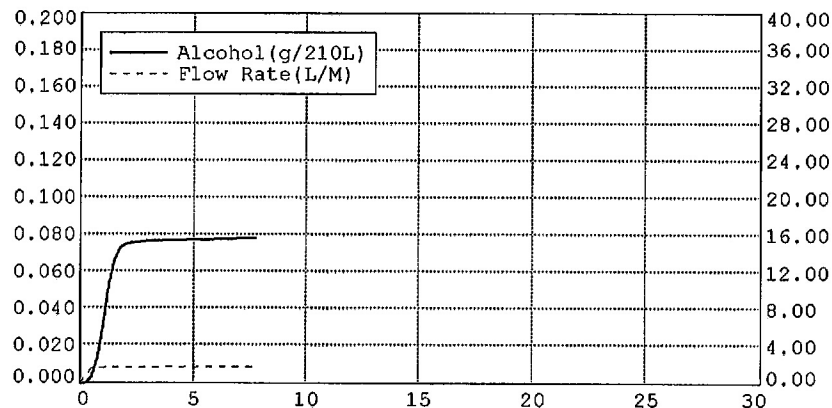
Date: 03/22/2012
Time: 12:22:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.92: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:23
INTERNAL STANDARD	VERIFIED	12:23
EXTERNAL STANDARD	0.078	12:24
BLANK TEST	0.000	12:25
EXTERNAL STANDARD	0.078	12:25
BLANK TEST	0.000	12:26
EXTERNAL STANDARD	0.078	12:26
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.078	12:27
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.078	12:28
BLANK TEST	0.000	12:29

Average = 0.0784
Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100357

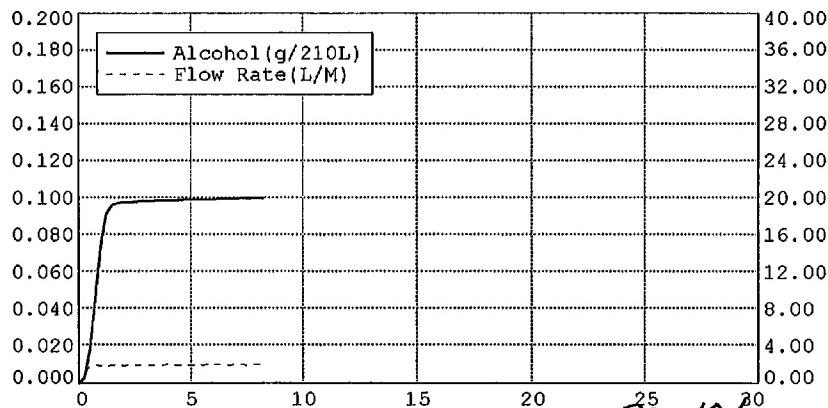
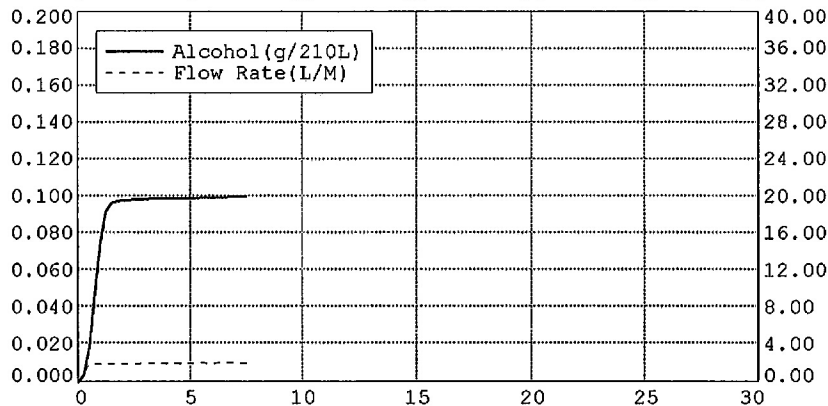
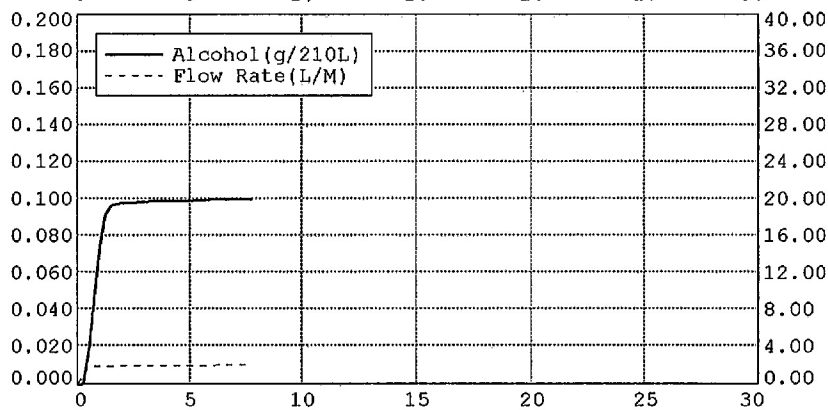
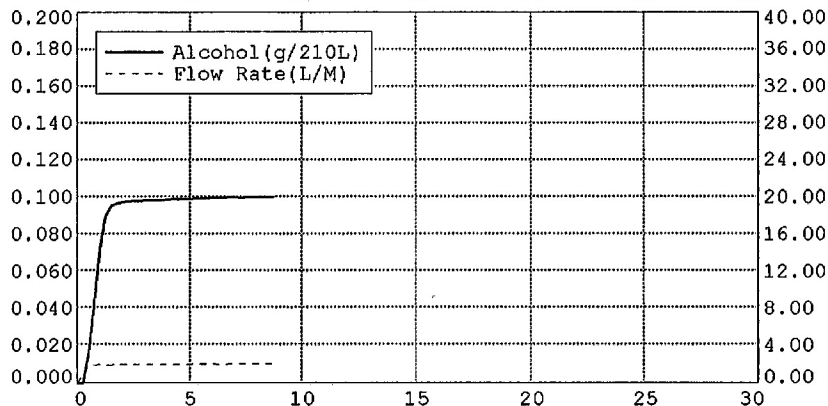
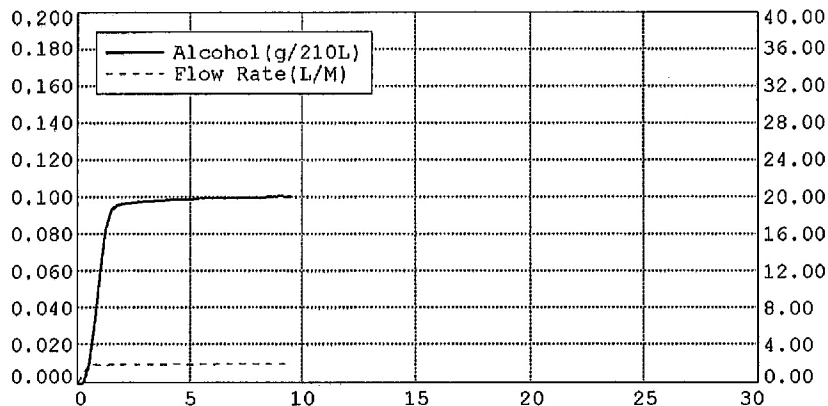
Date: 03/22/2012
Time: 12:33:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.92: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:34
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	0.100	12:37
BLANK TEST	0.000	12:38
EXTERNAL STANDARD	0.100	12:38
BLANK TEST	0.000	12:39
EXTERNAL STANDARD	0.100	12:39
BLANK TEST	0.000	12:40

Average = 0.1004
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100357

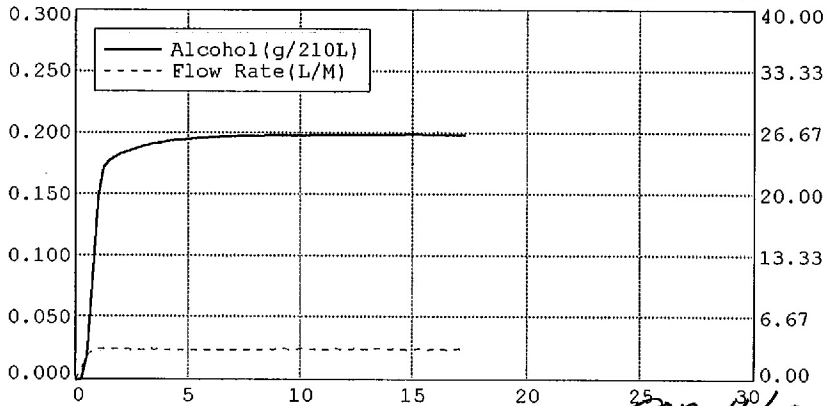
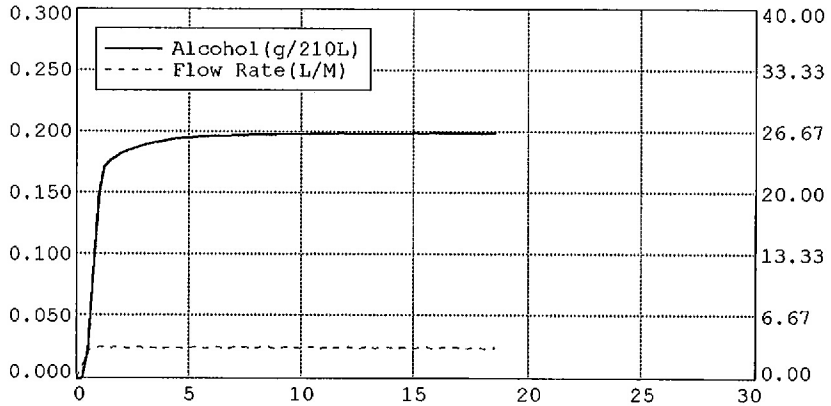
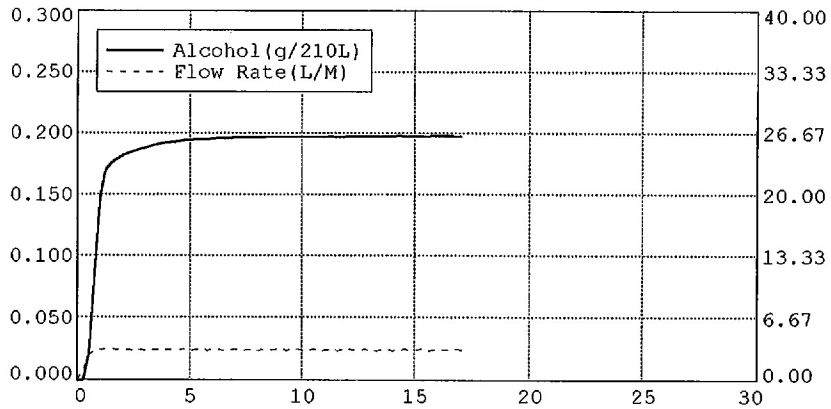
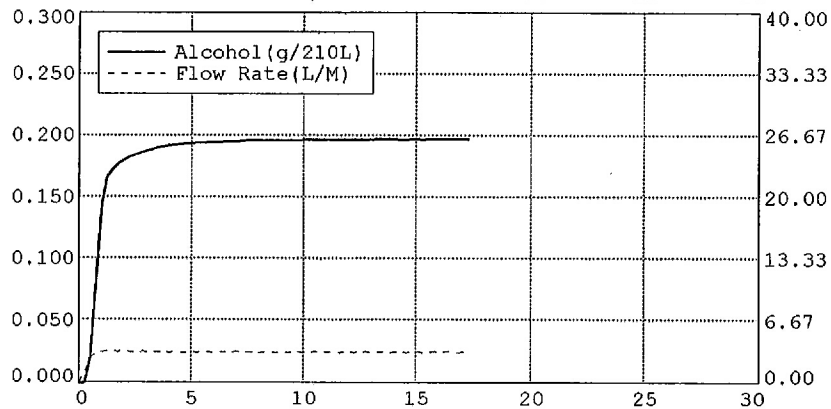
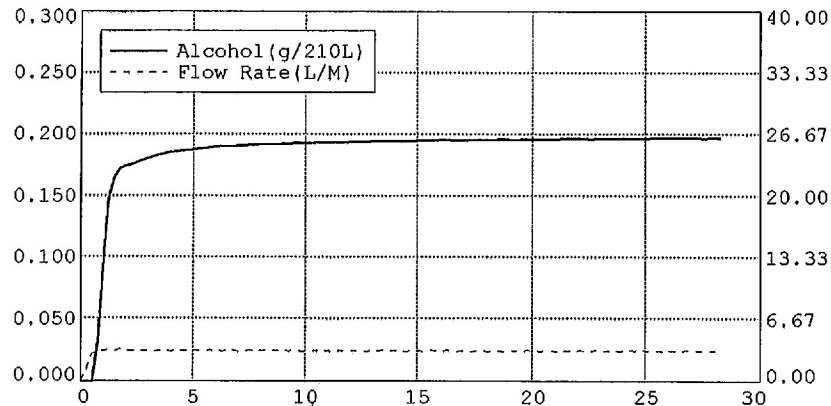
Date: 03/22/2012
Time: 12:42:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: 11120
EXPIRATION: 07/19/2013

BLANK TEST	0.000	12:44
INTERNAL STANDARD	VERIFIED	12:44
EXTERNAL STANDARD	0.197	12:44
BLANK TEST	0.000	12:45
EXTERNAL STANDARD	0.197	12:46
BLANK TEST	0.000	12:47
EXTERNAL STANDARD	0.198	12:47
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.199	12:48
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.199	12:50
BLANK TEST	0.000	12:51

Average = 0.1985
Std Dev = 0.0010



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100357

Date: 03/22/2012
Time: 12:53:40

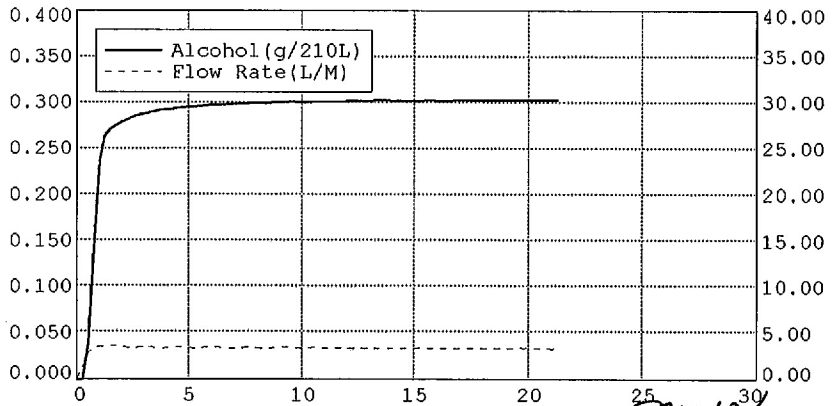
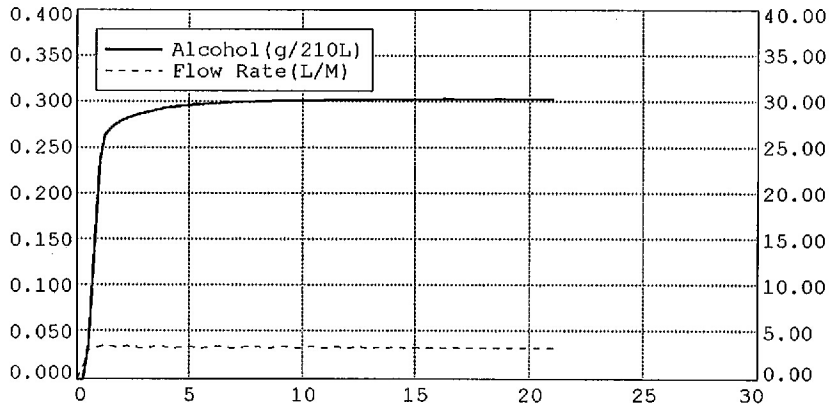
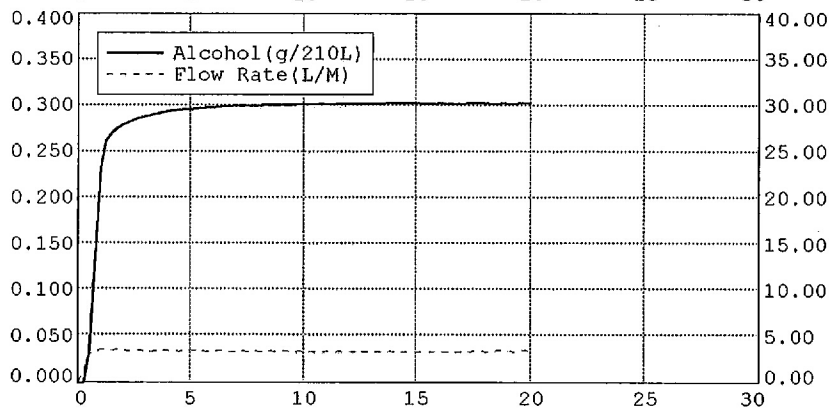
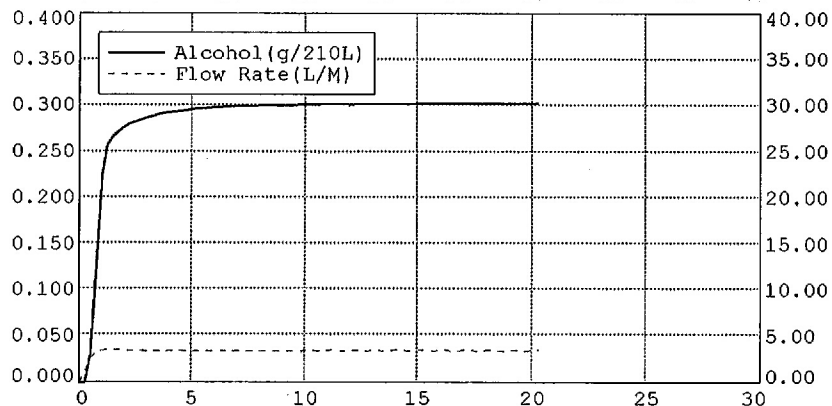
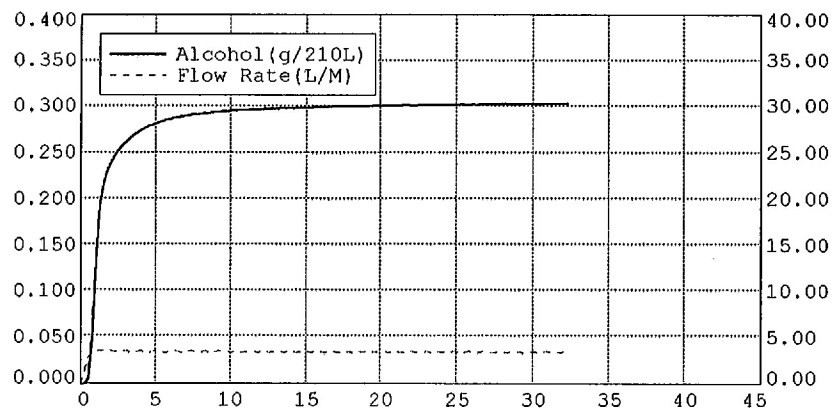
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300

BLANK TEST	0.000	12:54
INTERNAL STANDARD	VERIFIED	12:54
EXTERNAL STANDARD	0.301	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.301	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.302	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.301	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.301	13:01
BLANK TEST	0.000	13:02

Average = 0.3018
Std Dev = 0.0003

Lot# 11110

Expiration Date: 07/13/2012
COR 3/23/12



COR 12/12

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100357

Date: 03/23/2012
Time: 07:07:59

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

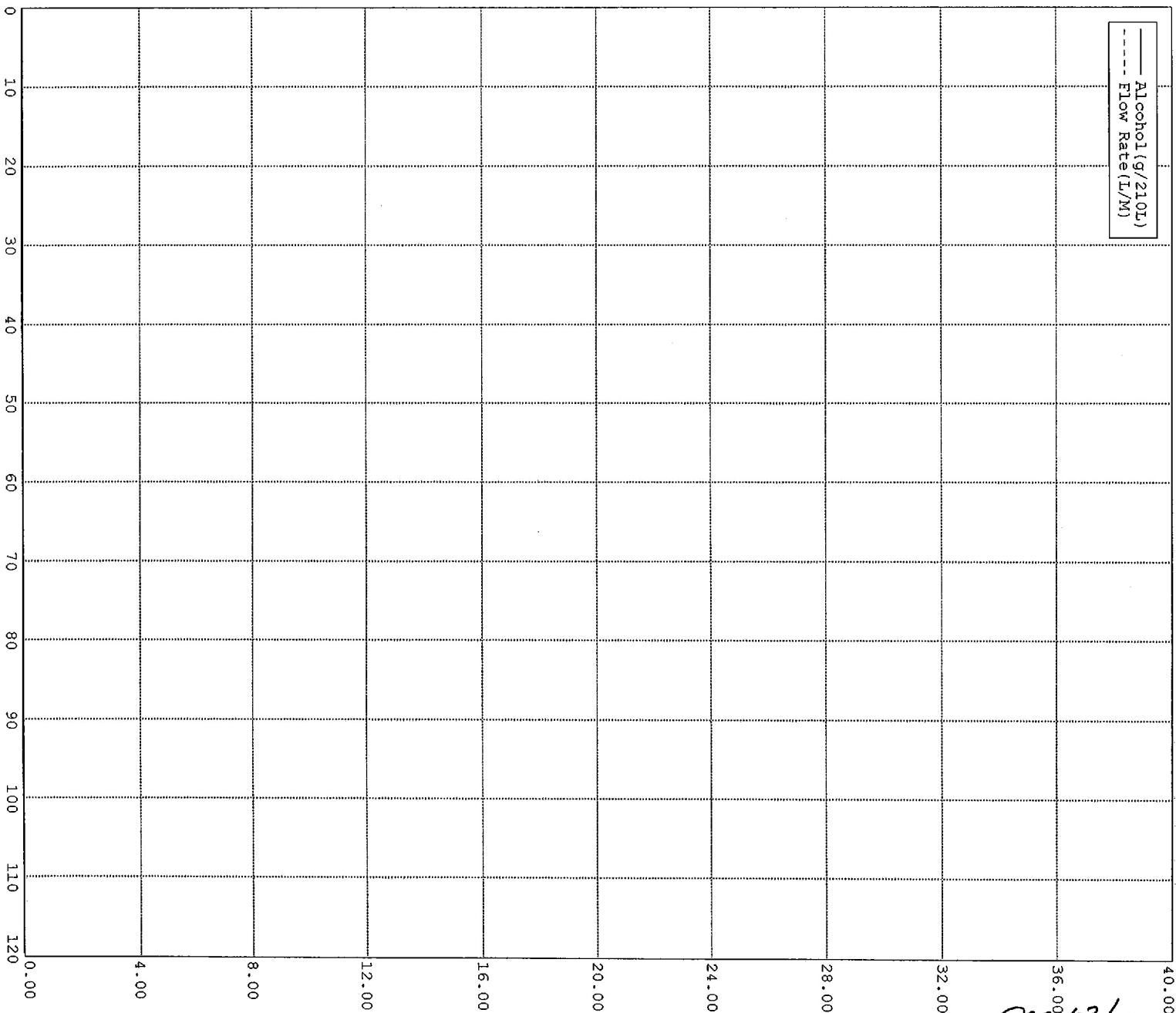
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	07:10
BLANK TEST	0.000	07:10
INTERNAL STANDARD	VERIFIED	07:10
EXTERNAL STANDARD	0.078	07:10
BLANK TEST	0.000	07:11
SUBJECT SAMPLE	INCOMPLETE	07:13

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



CAB 3/23/12

CAB 3/23/12

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100357

Date: 03/23/2012
 Time: 07:17:31

SUBJECT NAME:
 TEST TEST **INVALID** **008 3/23/12**
 LICENSE #: ~~REFERENCE~~

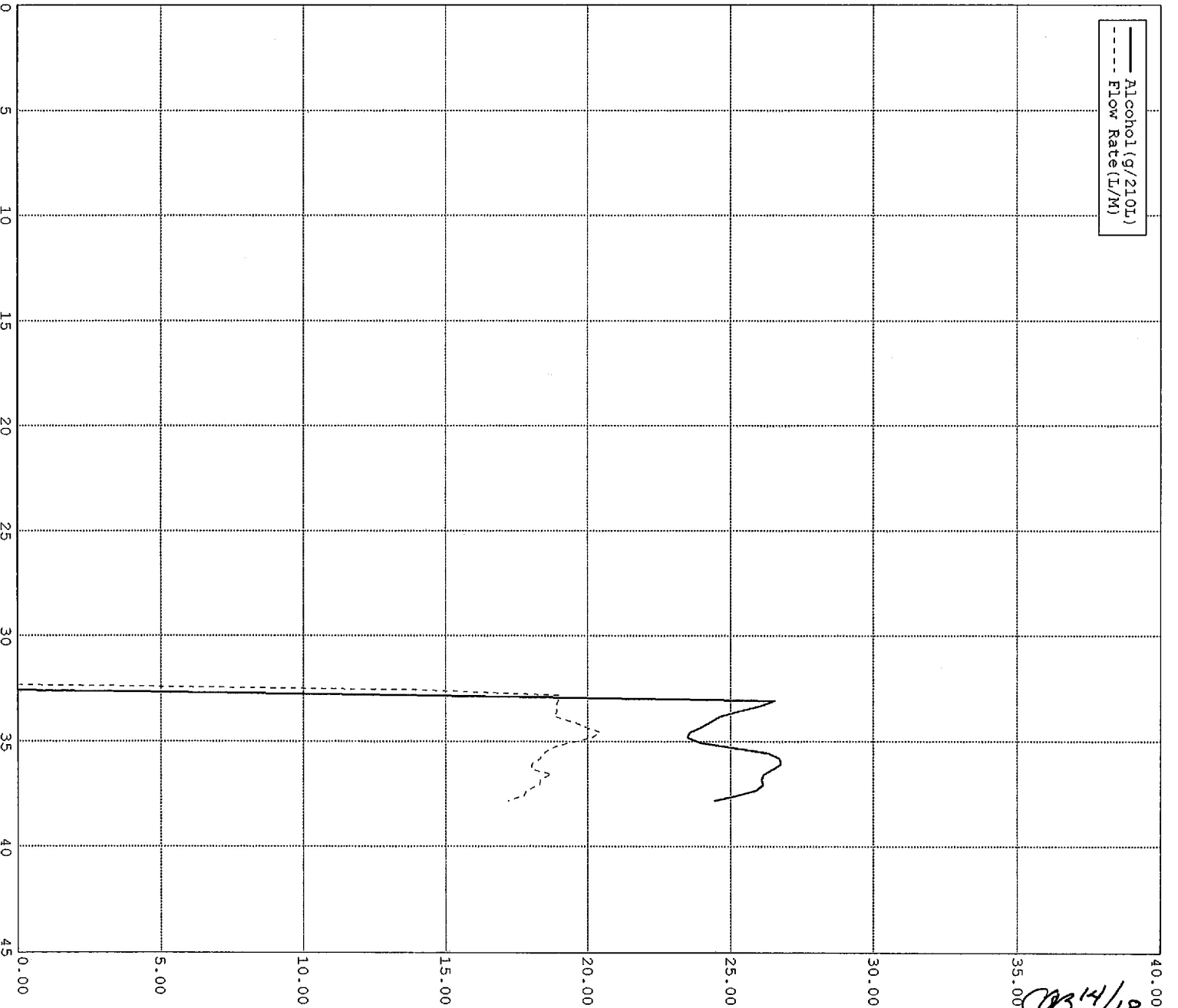
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92: 0.080
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	07:18
BLANK TEST	0.000	07:18
INTERNAL STANDARD	VERIFIED	07:18
EXTERNAL STANDARD	0.078	07:19
BLANK TEST	0.000	07:20
SUBJECT SAMPLE	INVALID	07:20

008 3/23/12



008 3/23/12

SUBJECT TEST

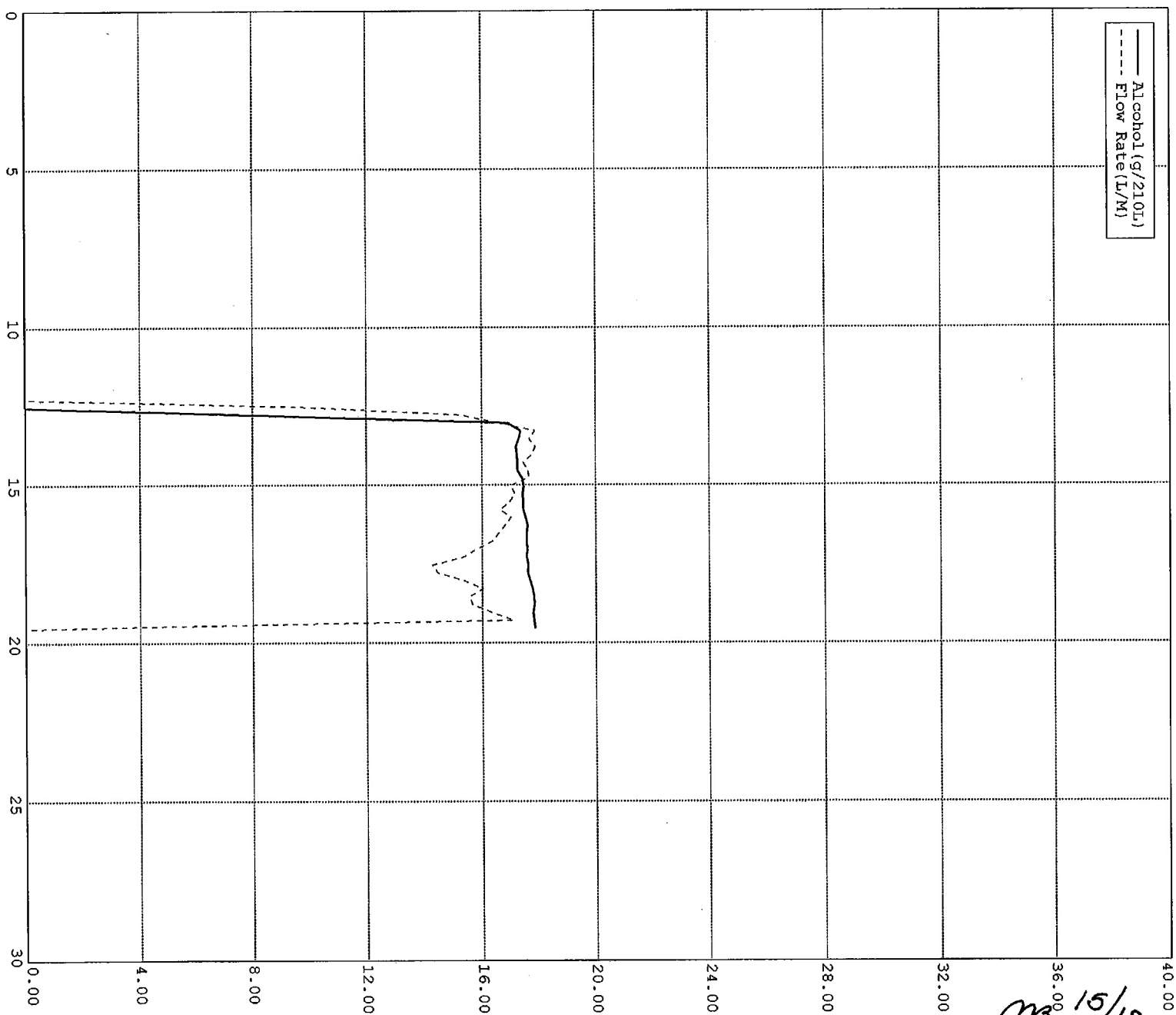
Alaska Department of Public Safety
DATAMASTER dmt: 100357Date: 03/23/2012
Time: 07:31:20SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONEOPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237DEPT/AGENCY:
AAAICASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	07:32
BLANK TEST	0.000	07:32
INTERNAL STANDARD	VERIFIED	07:32
EXTERNAL STANDARD	0.078	07:33
BLANK TEST	0.000	07:34
SUBJECT SAMPLE	INTERFERENCE	07:34

100357/12



000 15/12

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100357

Date: 03/23/2012

Time: 07:37:59

SUBJECT NAME:

TEST TEST

LICENSE #: INT-IPA

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAAI

CASE/REPORT: 12-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.92: 0.080

LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

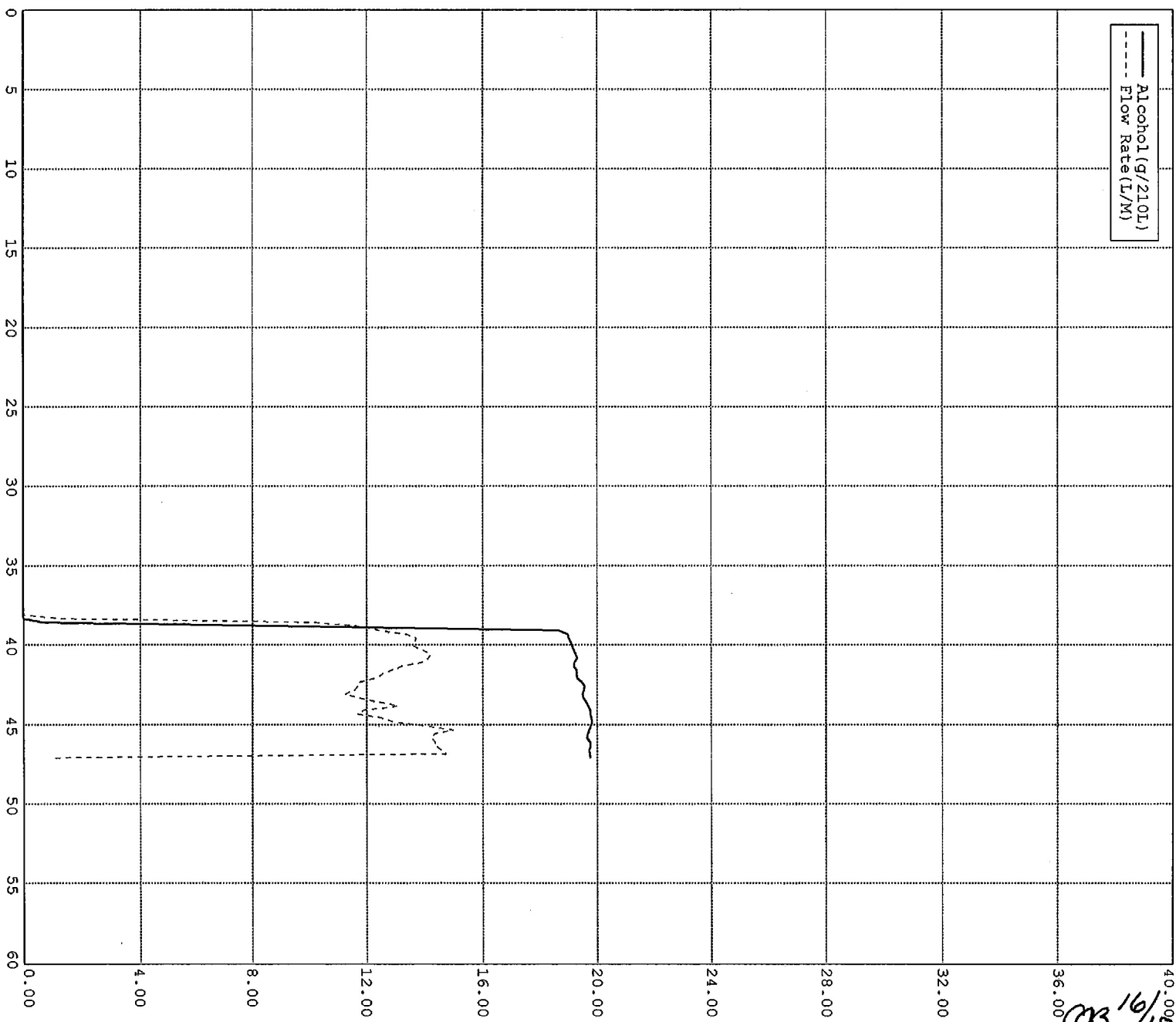
EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

	PASSED	07:39
BLANK TEST	0.000	07:39
INTERNAL STANDARD	0.078	07:39
EXTERNAL STANDARD	0.000	07:40
INTERFERENCE		07:41

CB 3/23/12



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100357

Date: 03/23/2012
Time: 07:47:58

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

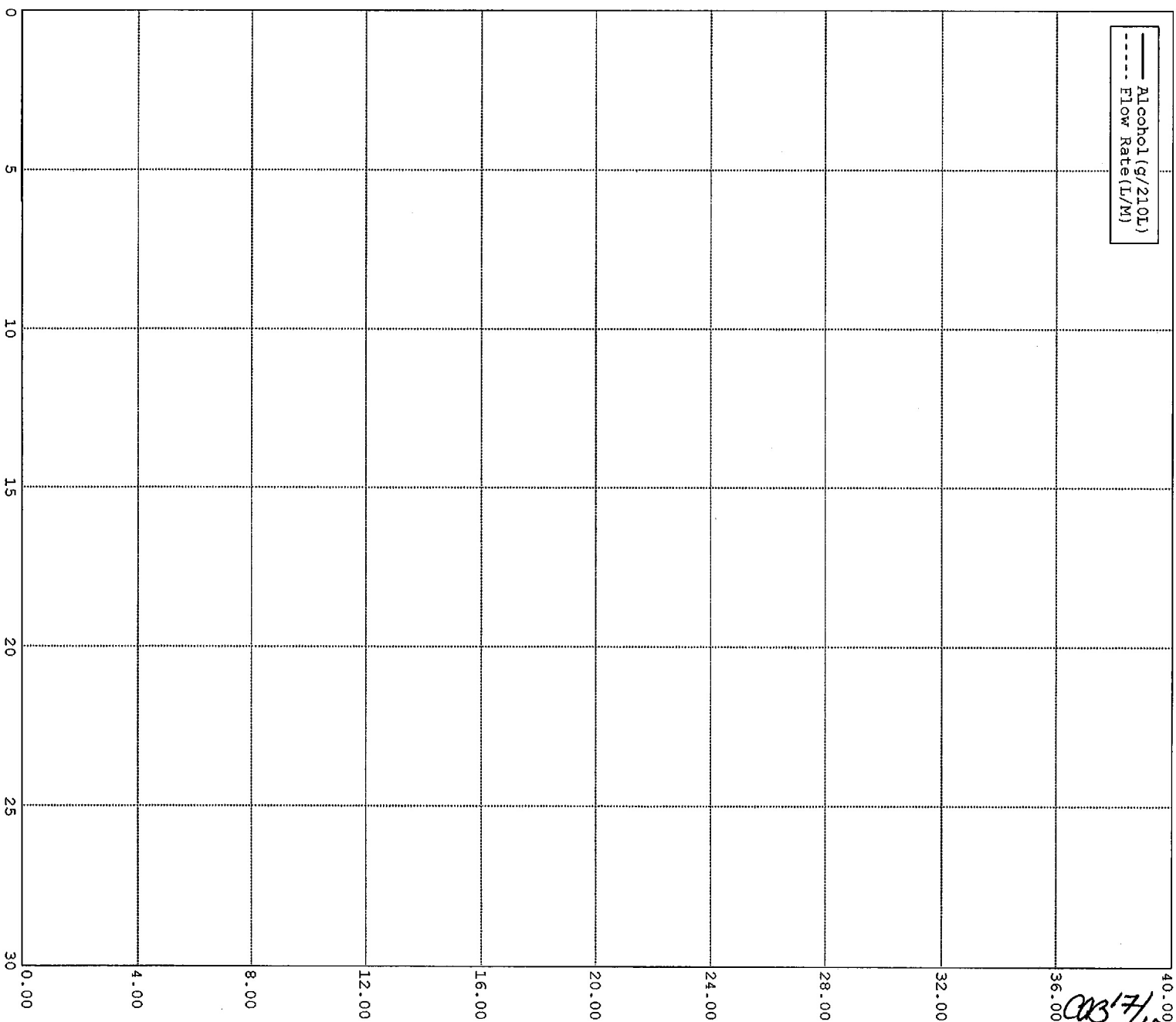
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK
BLANK TEST PASSED 07:49
INTERNAL STANDARD VERIFIED 07:49
EXTERNAL STANDARD 0.078 07:49
BLANK TEST 0.000 07:50

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100357

Date: 03/23/2012

Time: 08:23:44

SUBJECT NAME:

TEST TEST

LICENSE #: NON-DRINKING

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAAI

CASE/REPORT: 12-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.94: 0.080

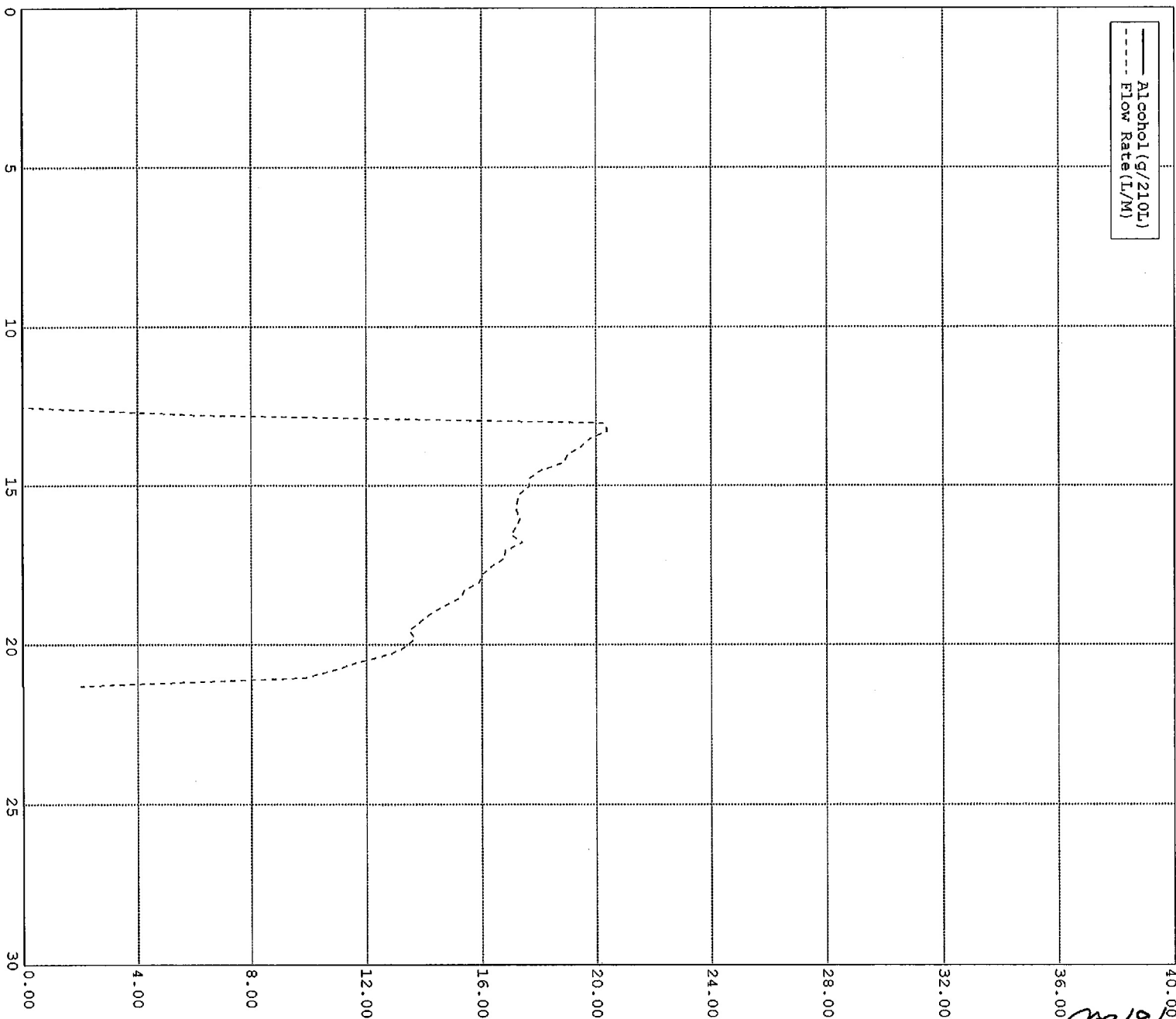
LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

TEST	PASSED	08:25
BLANK TEST	0.000	08:25
INTERNAL STANDARD	0.078	08:25
EXTERNAL STANDARD	0.000	08:26
BLANK TEST	0.000	08:27
SUBJECT SAMPLE	0.000	08:27
BLANK TEST	0.000	08:28
EXTERNAL STANDARD	0.079	08:28
BLANK TEST	0.000	08:29

CB 3/23/12



CB 18/12