

	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 # 100361Analyst Brandi Barnett
Date 3/25/11

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 1700 mL ☒
5. Dry Gas Linearity Test (attached)
 - a. Levels Used ☒
 - i. 0.020g/210L Mnf ILMO Lot 15210020A1 Exp 07/01/2012
 - ii. 0.040g/210L Mnf ILMO Lot 15210040A2 Exp 07/01/2012
 - iii. 0.080g/210L Mnf ILMO Lot 02511080A3 Exp 02/01/2013
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 03/01/2013
 - v. 0.200g/210L Mnf ILMO Lot 07411200A2 Exp 03/01/2013
 - vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 03/01/2013
6. Functional Tests (attached)
 - a. Incomplete ☒
 - b. Invalid ☒
 - c. Interference ☒
 - i. Acetone - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/2011
 1. Simulator Calibration Date 10/18/2010 SN DR6267
 - ii. Isopropanol - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/2011
 1. Simulator Calibration Date 08/04/2010 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: 100361

Date: 03/25/2011
Time: 12:54:28

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 = 4.654 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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2/18/08
BMB

Technician Screen

DATAMASTER dmt: 100361

Date: 03/25/2011

Time: 12:58 PM

Temperatures (°C)

Sample Cell: 48.5°C

Breath Tube: 47.5°C

Current Barometer 29.5 in

Volume (Ltr) 1.46

Settings

Lamp: 2.23 V

Bias: 80 V

Cooler: 1.71 V

Chopper: 536 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.410 V

3/18/11 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 03/22/2011
Time: 11:45:38

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 9380
EXPIRATION: 12/17/2011

Ca = 0.1000
CAL = 0.994372 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0054 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0917 0.0500 <= Xq < 0.2000
a21 = 1.182004 1.050 <= a21 < 1.300
a31 = 0.502569 0.300 <= a31 < 0.800

4/18 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100361

Date: 03/25/2011
 Time: 13:01:26

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

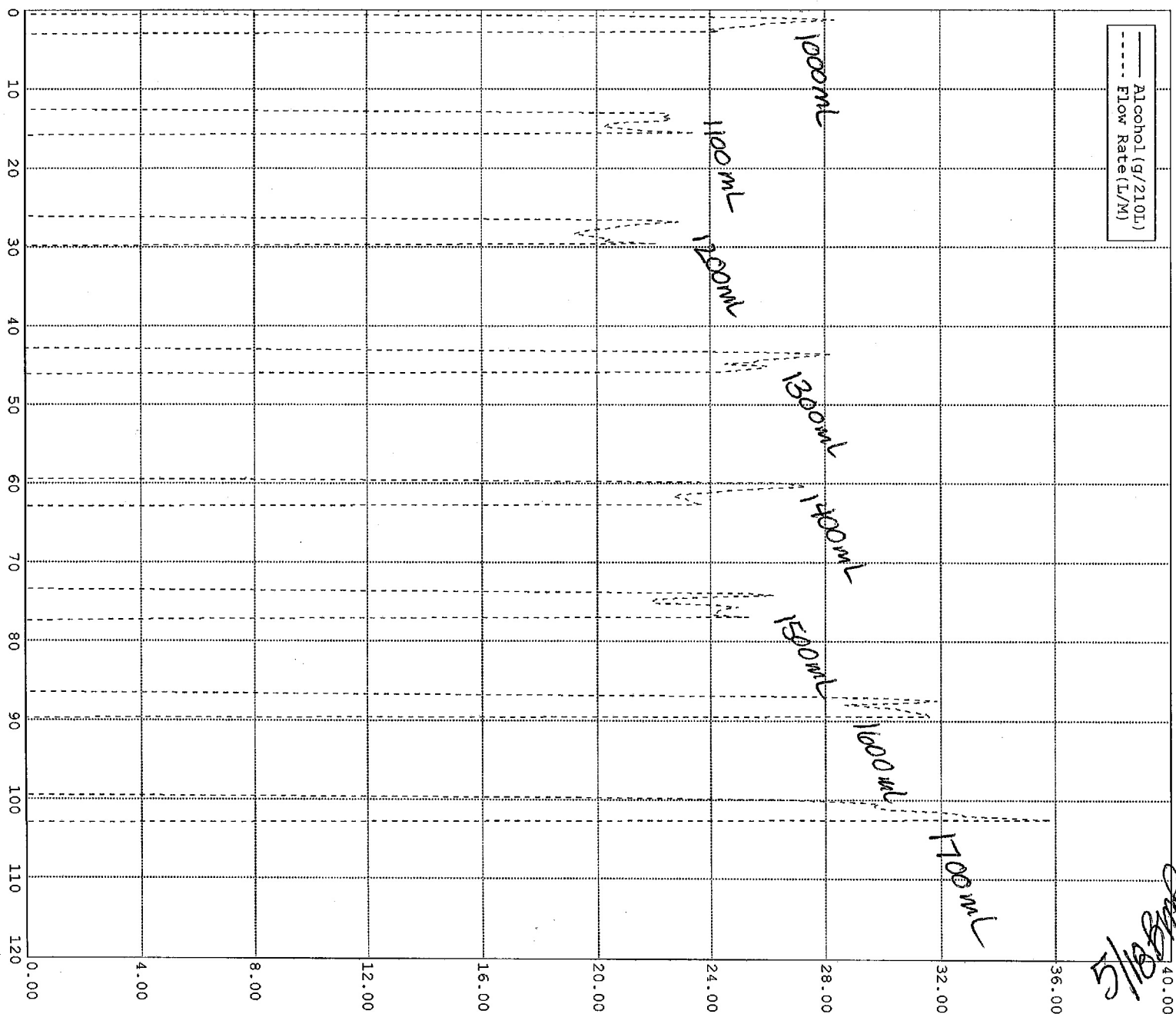
OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.49: 0.078
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:02
BLANK TEST	0.000	13:02
INTERNAL STANDARD	VERIFIED	13:02
EXTERNAL STANDARD	0.080	13:02
BLANK TEST	0.000	13:04
SUBJECT SAMPLE	0.000	13:06
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.079	13:07
BLANK TEST	0.000	13:08

BME



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100361

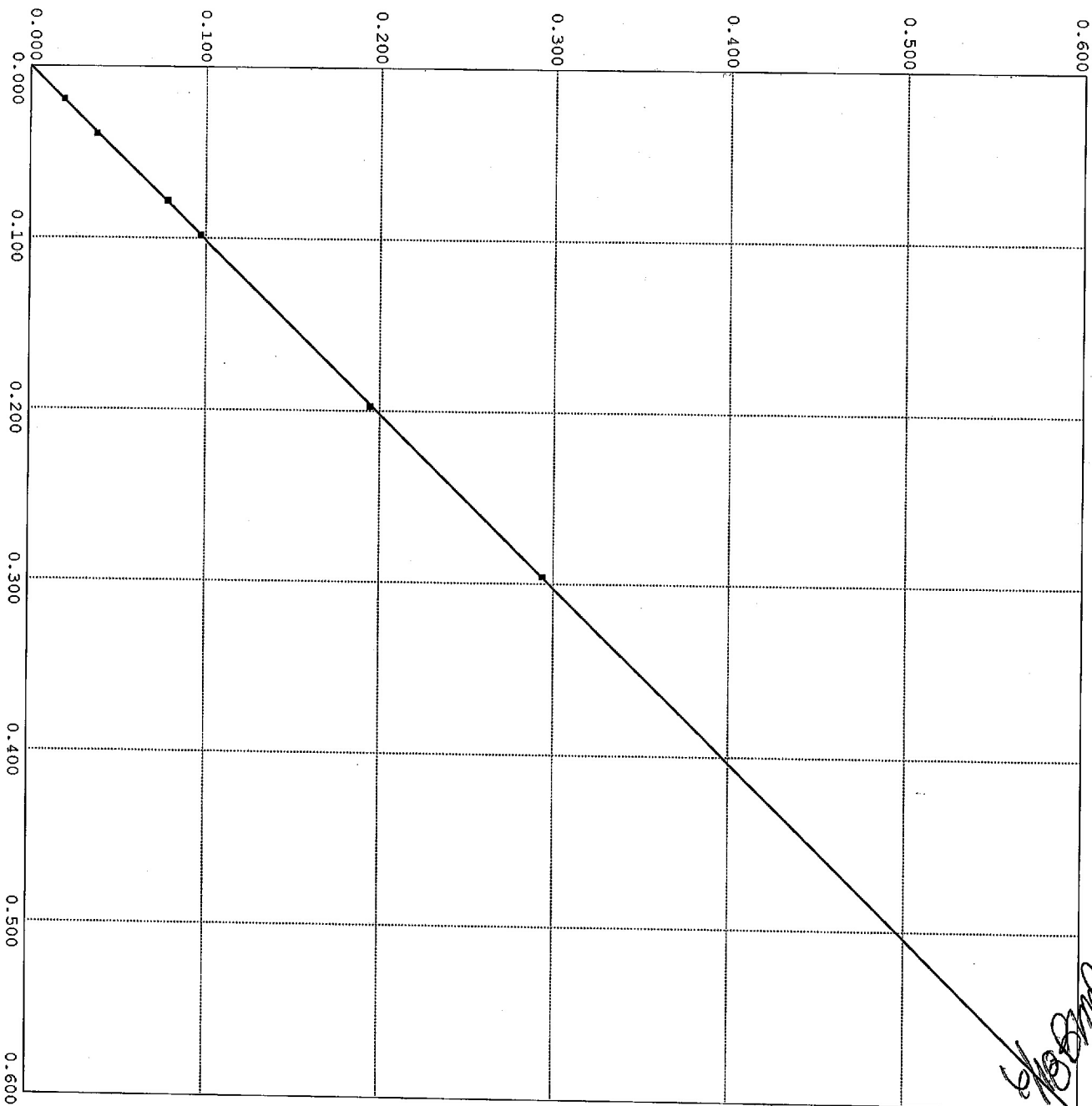
Date: 03/25/2011
 Time: 13:11:50

SUPERVISOR NAME:
 BRANDI M BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.039	0.0386	0.0009
0.078	0.0788	0.0004
0.098	0.0978	0.0004
0.197	0.1952	0.0004
0.295	0.2942	0.0008

SLOPE = 0.993250
 R^2 = 0.999974

BMB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100361

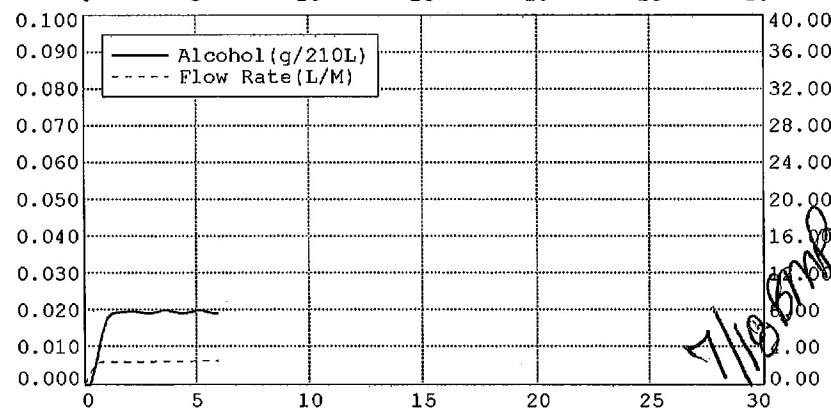
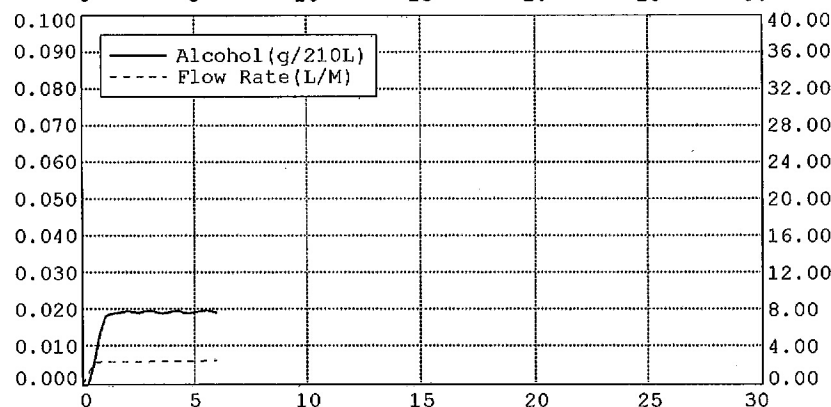
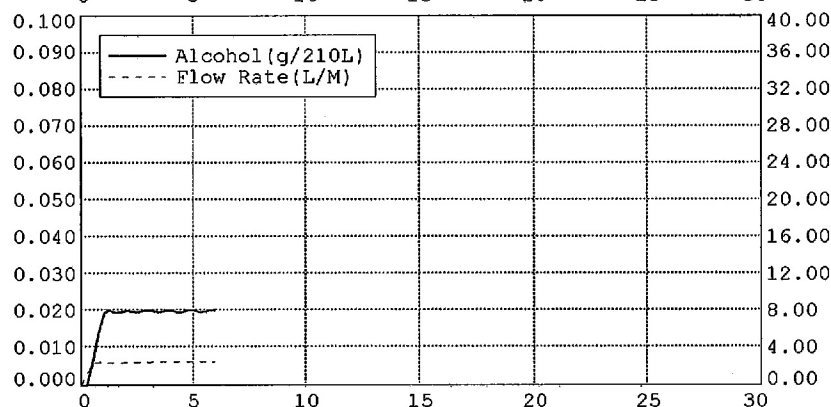
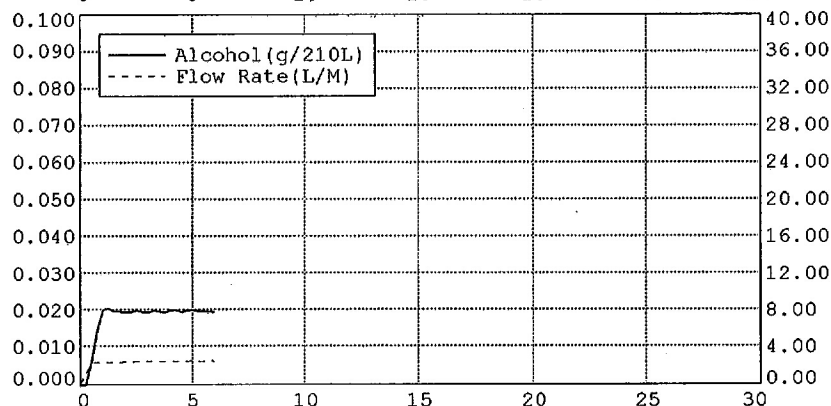
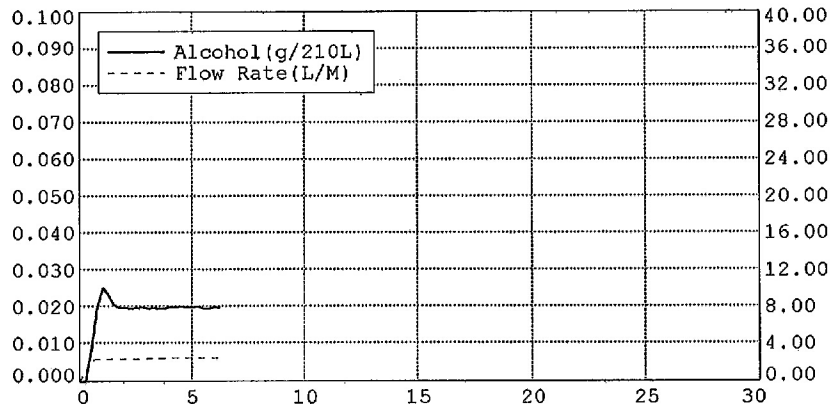
Date: 03/25/2011
Time: 13:11:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.49: 0.019
LOT #: 15210020A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	13:13
INTERNAL STANDARD	VERIFIED	13:13
EXTERNAL STANDARD	0.020	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.020	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.020	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.020	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.020	13:17
BLANK TEST	0.000	13:18

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

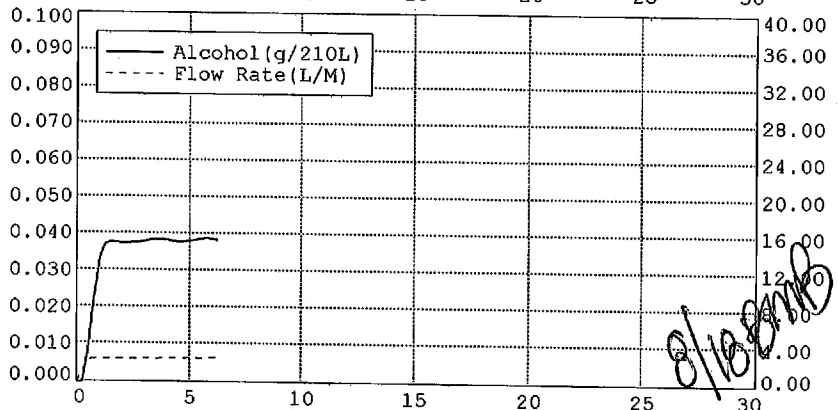
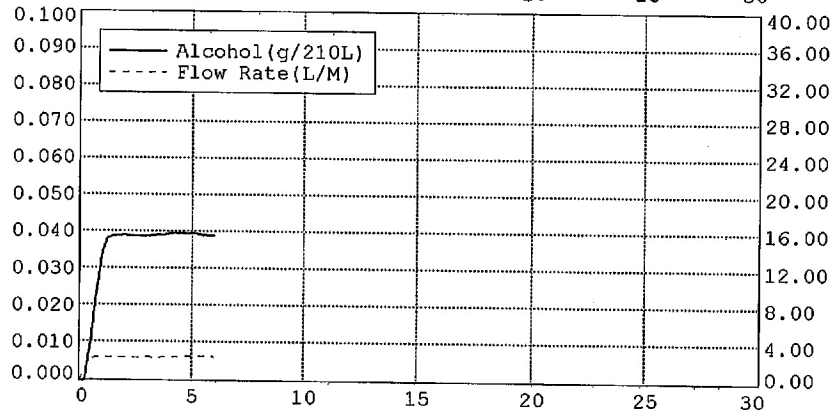
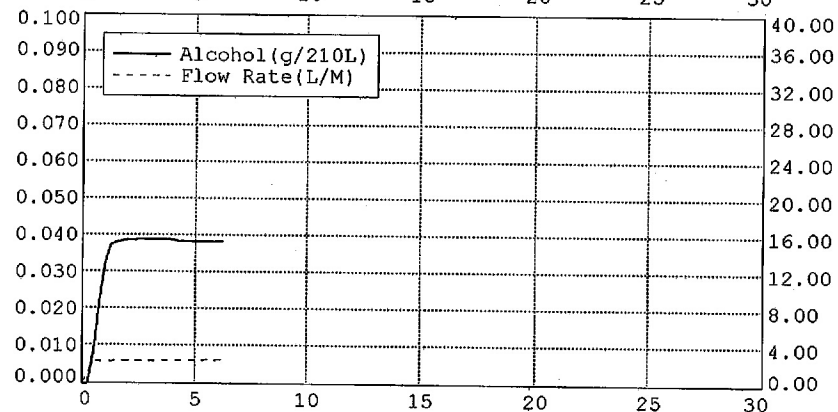
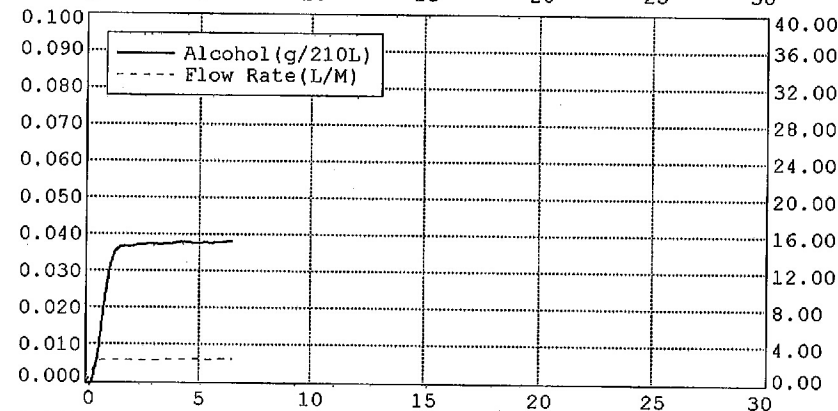
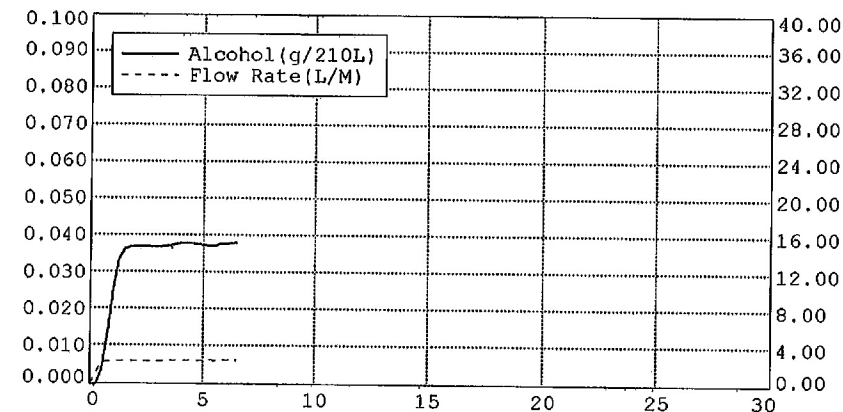
Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 03/25/2011
Time: 13:20:20

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.48: 0.039
LOT #: 15210040A2
EXPIRATION: 07/01/2012

BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:21
EXTERNAL STANDARD	0.038	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.038	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.039	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.040	13:25
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.038	13:26
BLANK TEST	0.000	13:27

Average = 0.0386
Std Dev = 0.0009



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100361

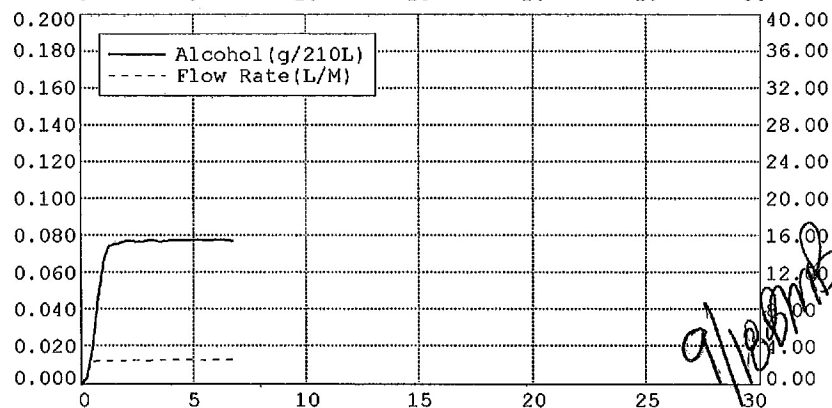
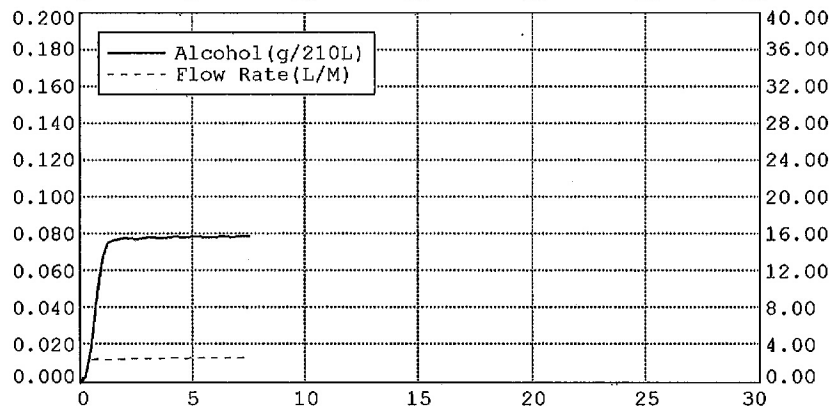
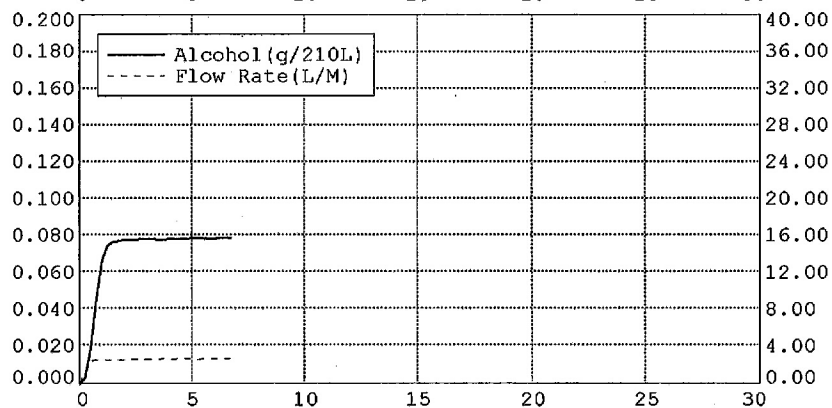
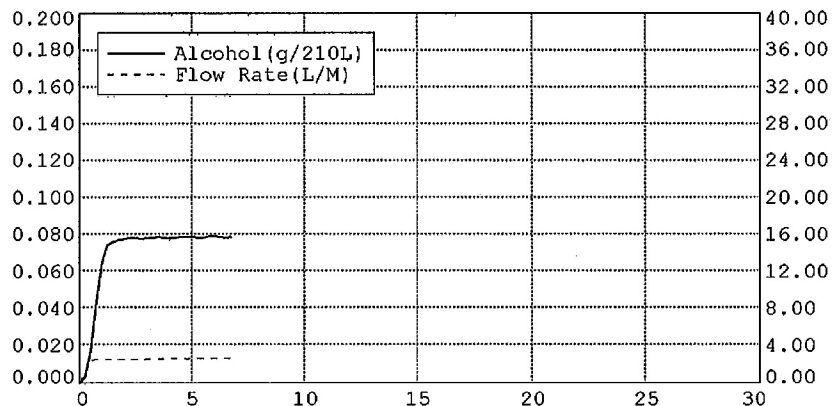
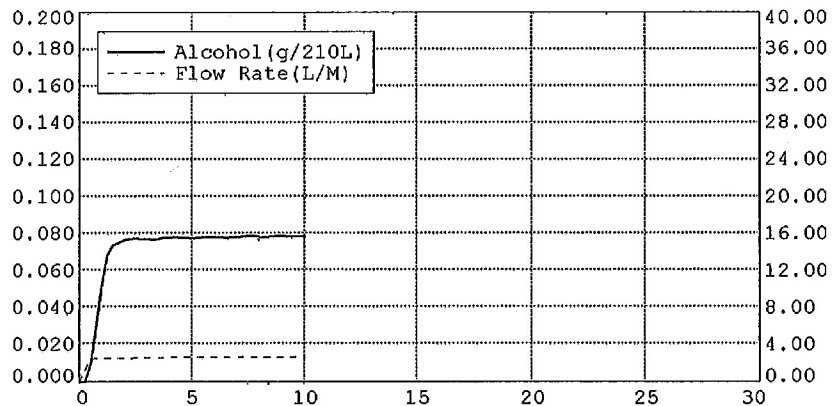
Date: 03/25/2011
Time: 13:28:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.48: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:29
INTERNAL STANDARD	VERIFIED	13:29
EXTERNAL STANDARD	0.079	13:30
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.079	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.079	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.079	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.078	13:34
BLANK TEST	0.000	13:35

Average = 0.0788
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100361

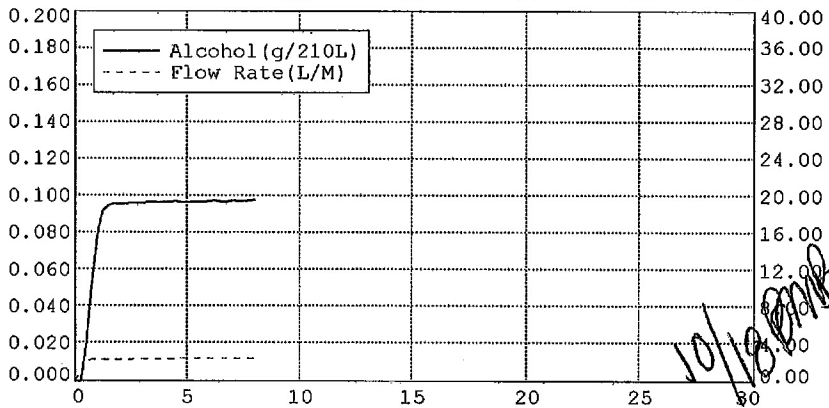
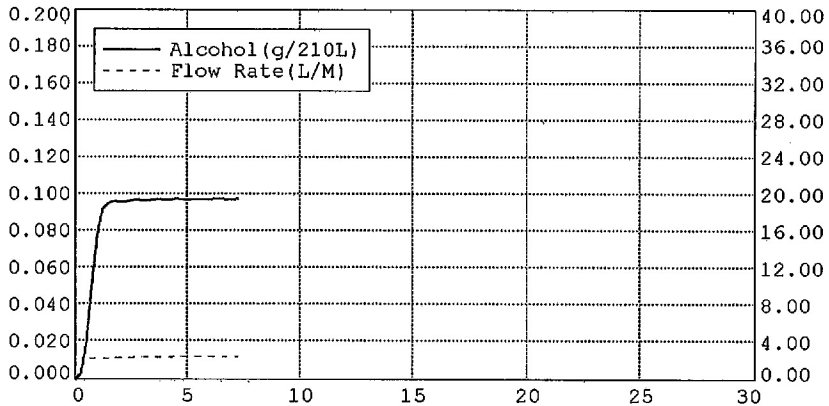
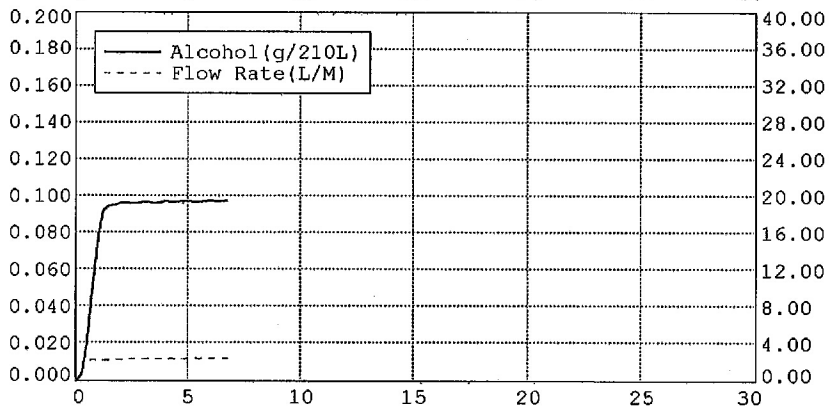
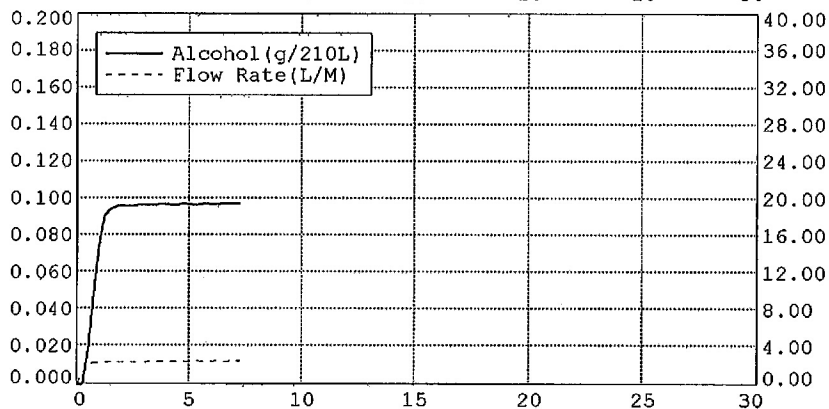
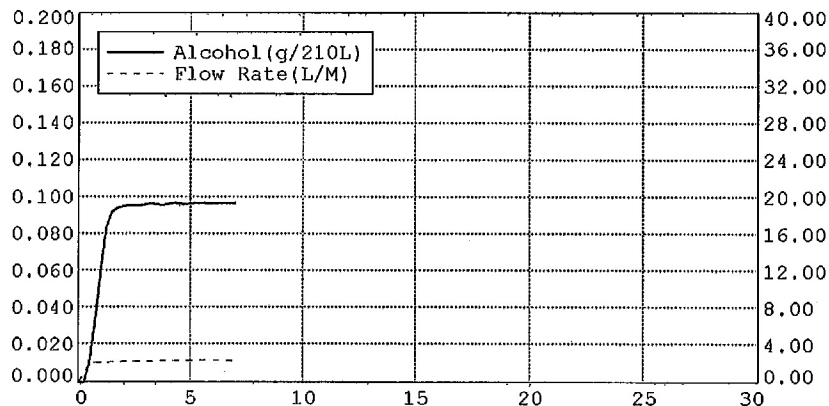
Date: 03/25/2011
Time: 13:37:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.48: 0.098
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:38
INTERNAL STANDARD	VERIFIED	13:38
EXTERNAL STANDARD	0.097	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.098	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.098	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.098	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.098	13:43
BLANK TEST	0.000	13:44

Average = 0.0978
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100361

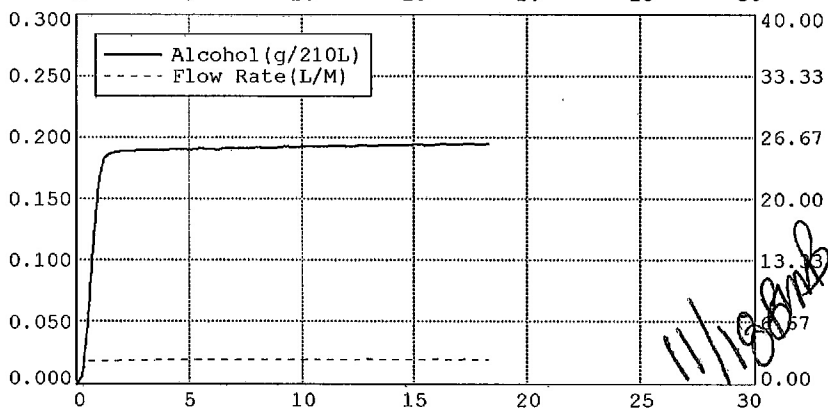
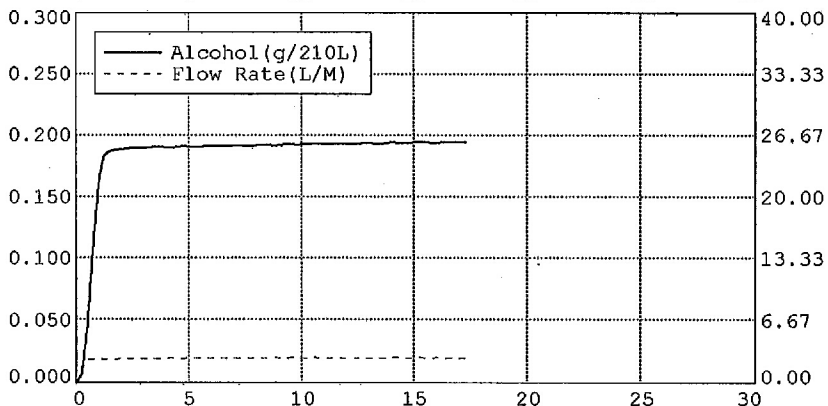
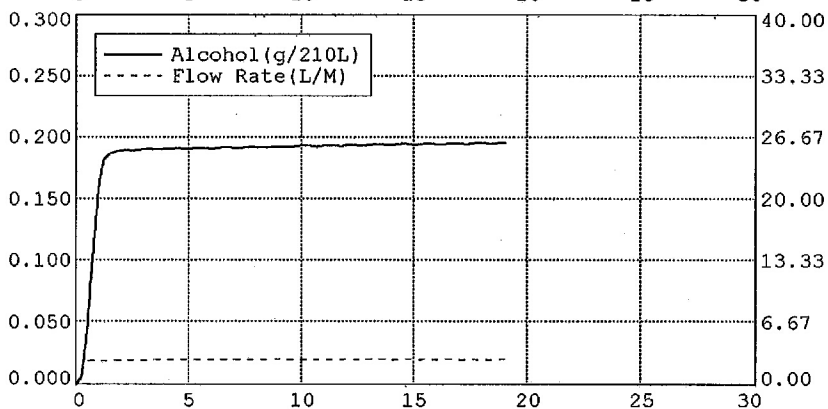
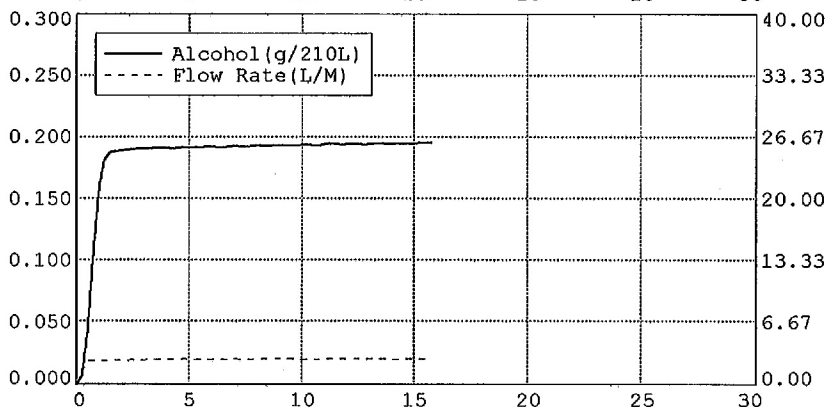
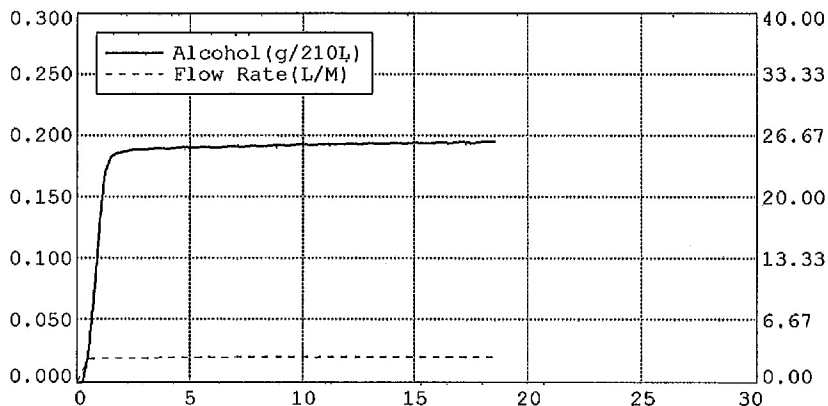
Date: 03/25/2011
Time: 13:46:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.48: 0.197
LOT #: 07411200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
EXTERNAL STANDARD	0.195	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.195	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.196	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.195	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.195	13:54
BLANK TEST	0.000	13:55

Average = 0.1952
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

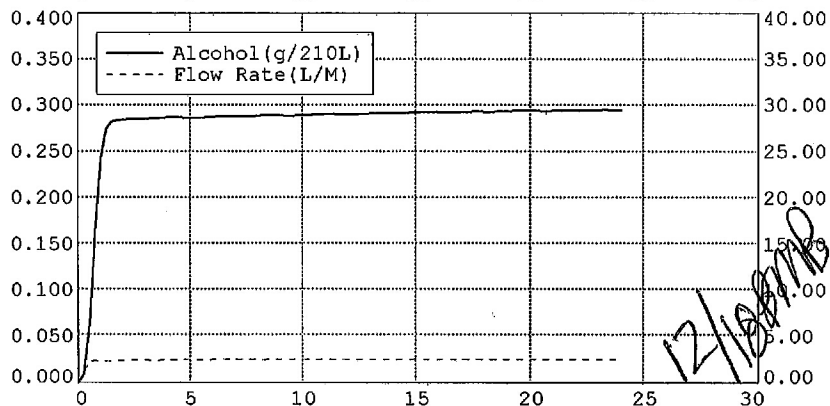
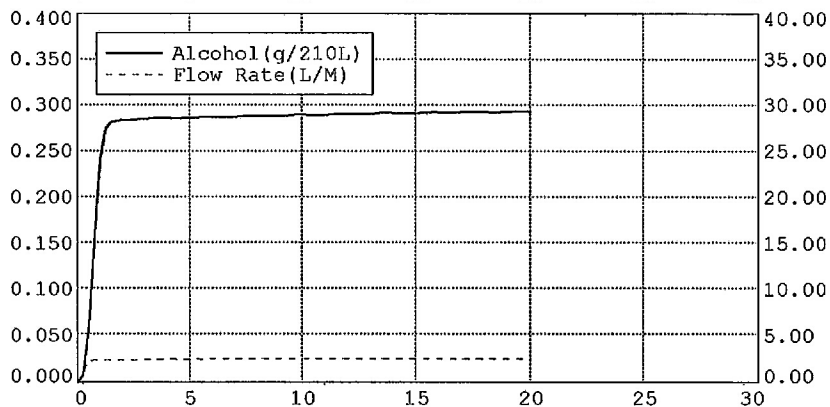
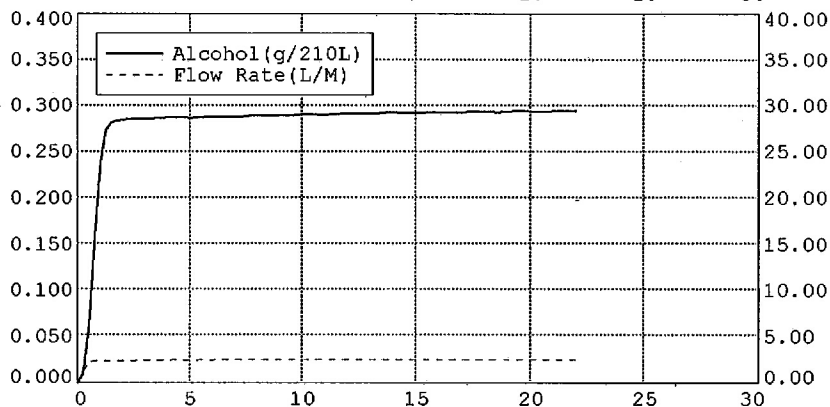
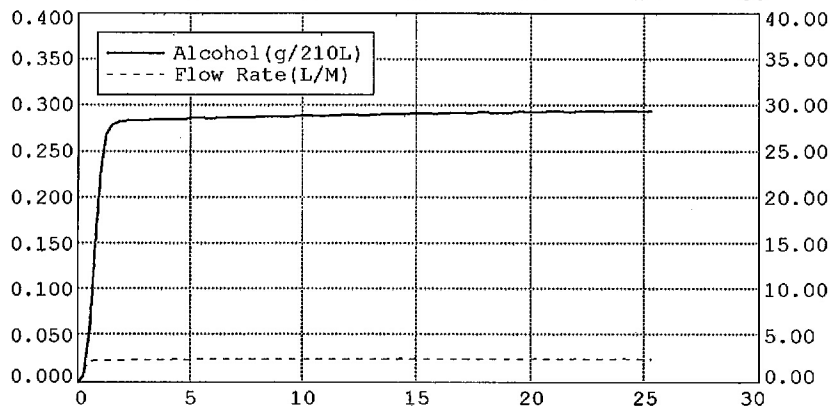
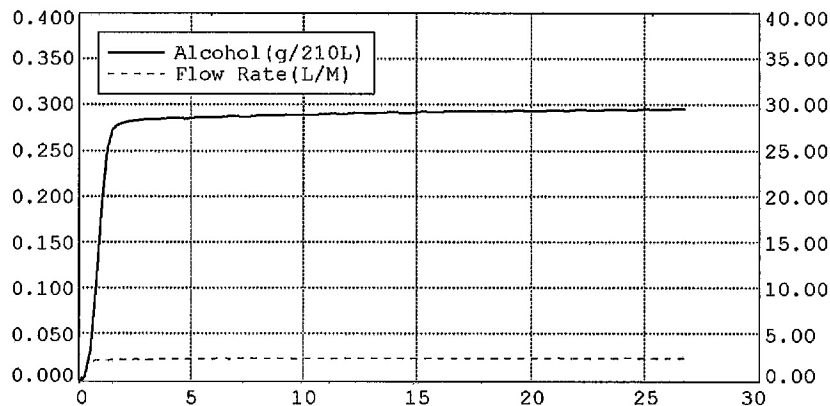
Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 03/25/2011
Time: 13:58:12

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
TARGET AT 29.48: 0.295
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:59
INTERNAL STANDARD	VERIFIED	13:59
EXTERNAL STANDARD	0.295	13:59
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.294	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.294	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.293	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.295	14:06
BLANK TEST	0.000	14:07

Average = 0.2942
Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100361

Date: 03/25/2011
Time: 14:12:18

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

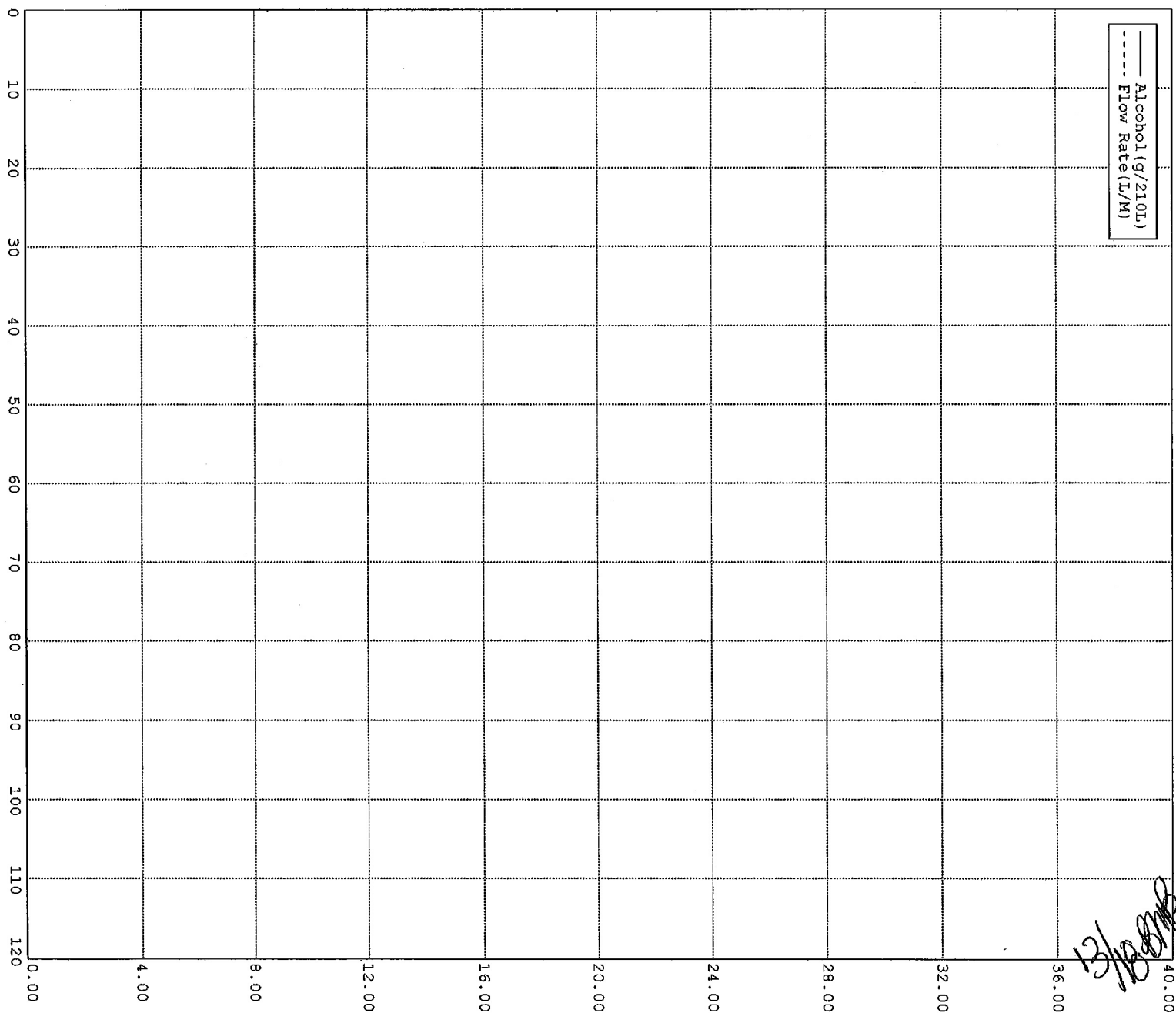
OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.48: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:13
BLANK TEST	0.000	14:13
INTERNAL STANDARD	VERIFIED	14:13
EXTERNAL STANDARD	0.080	14:13
BLANK TEST	0.000	14:14
SUBJECT SAMPLE	INCOMPLETE	14:16

Handwritten signature/initials.



Handwritten signature/initials.

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 03/25/2011
Time: 14:19:56

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

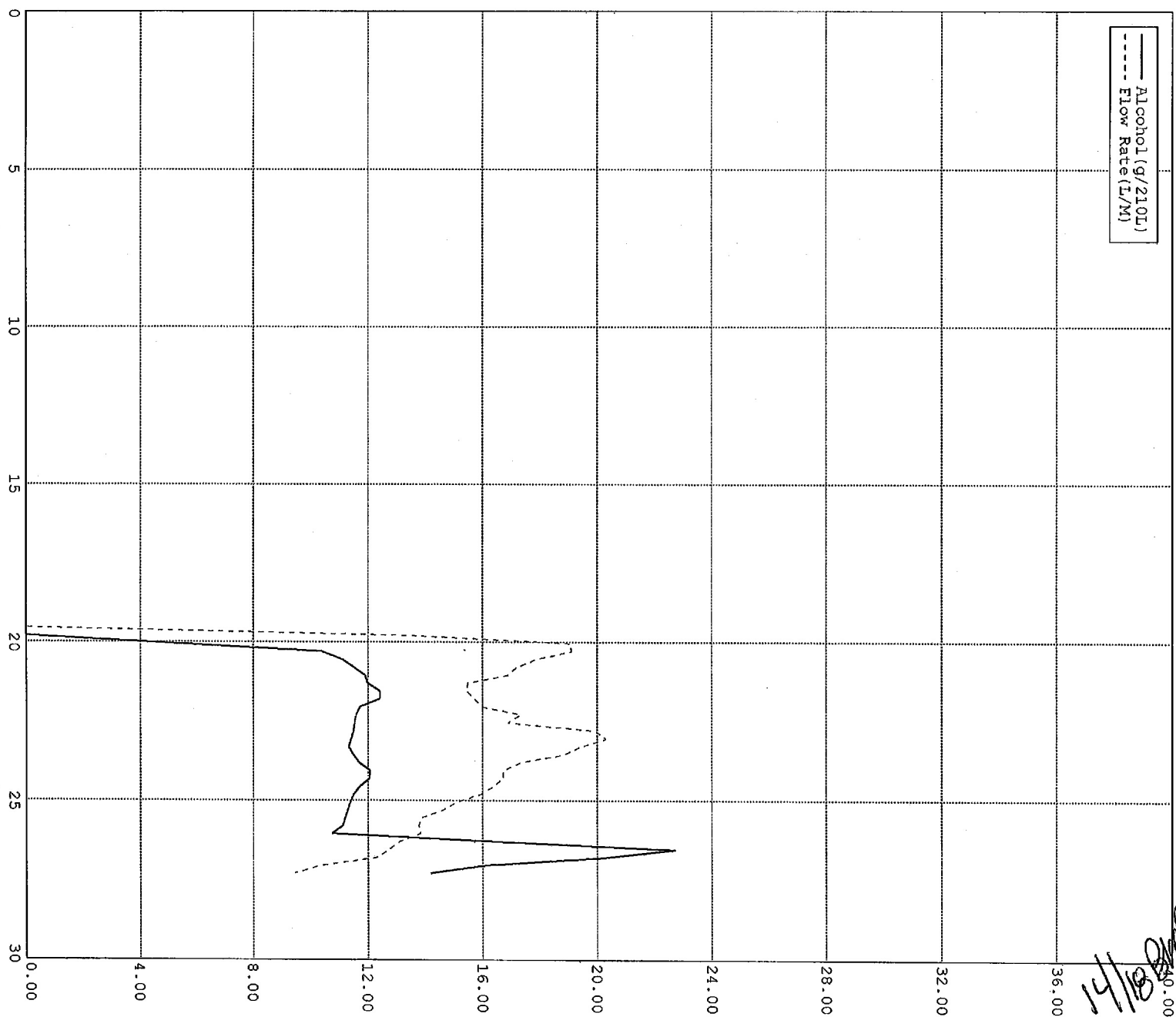
OPERATOR NAME:
INVALID XXXX
OPERATOR'S #: XXXX

DEPT/AGENCY:
KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.48: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 14:20
INTERNAL STANDARD	0.000 14:21
EXTERNAL STANDARD	VERIFIED 14:21
BLANK TEST	0.079 14:21
SUBJECT SAMPLE	0.000 14:22
	Invalid 14:23

BME



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 03/25/2011
Time: 14:24:46

SUBJECT NAME:
TEST TEST
LICENSE #: INTERPERE

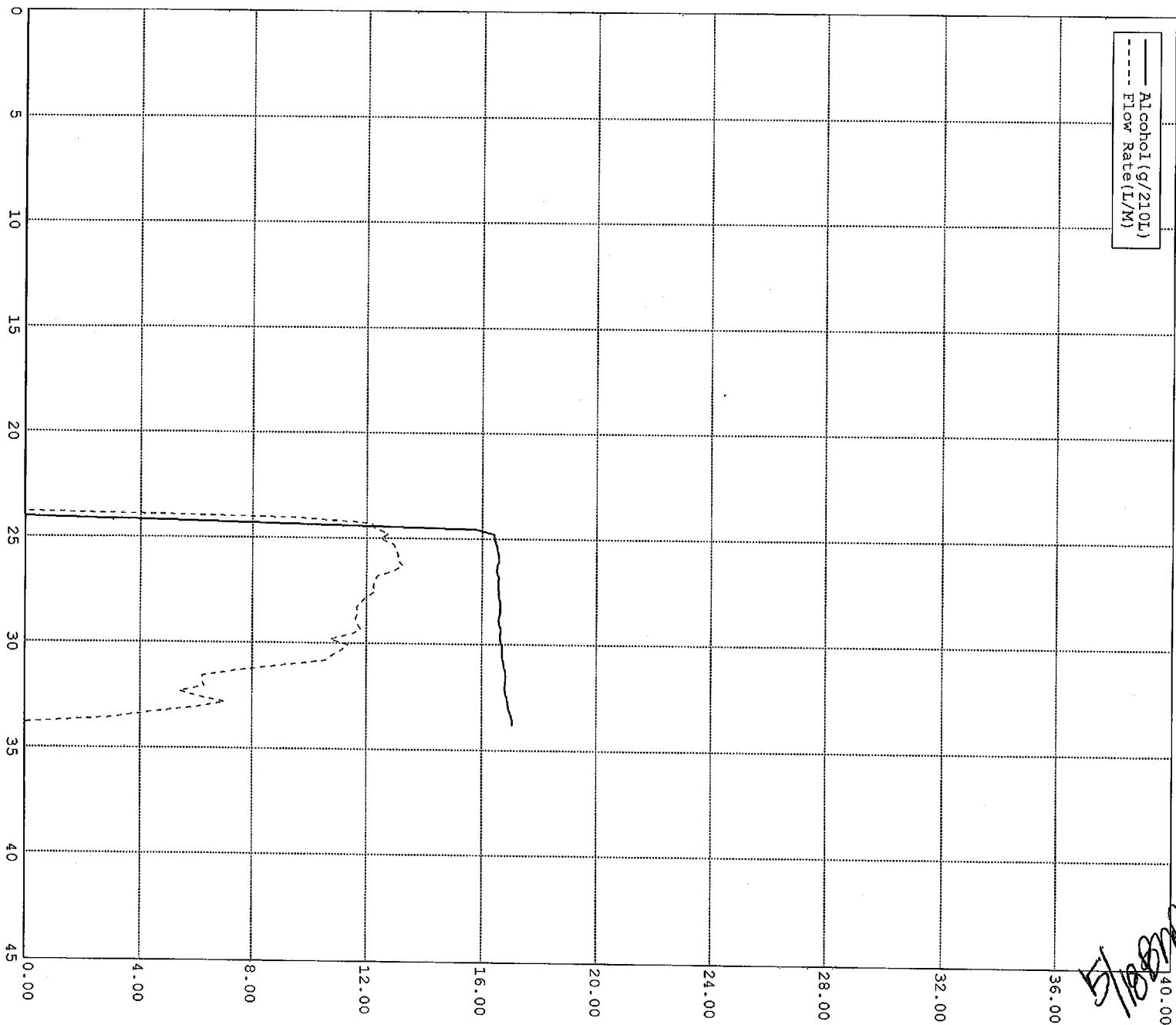
OPERATOR NAME:
ETHANOL AND ACETONE
OPERATOR'S #: XXXX

DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.48: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:25
BLANK TEST	0.000	14:25
INTERNAL STANDARD	VERIFIED	14:26
EXTERNAL STANDARD	0.079	14:26
BLANK TEST	0.000	14:27
SUBJECT SAMPLE	INTERFERENCE	14:27

Brandi Barnett



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100361

Date: 03/25/2011
 Time: 14:30:28

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

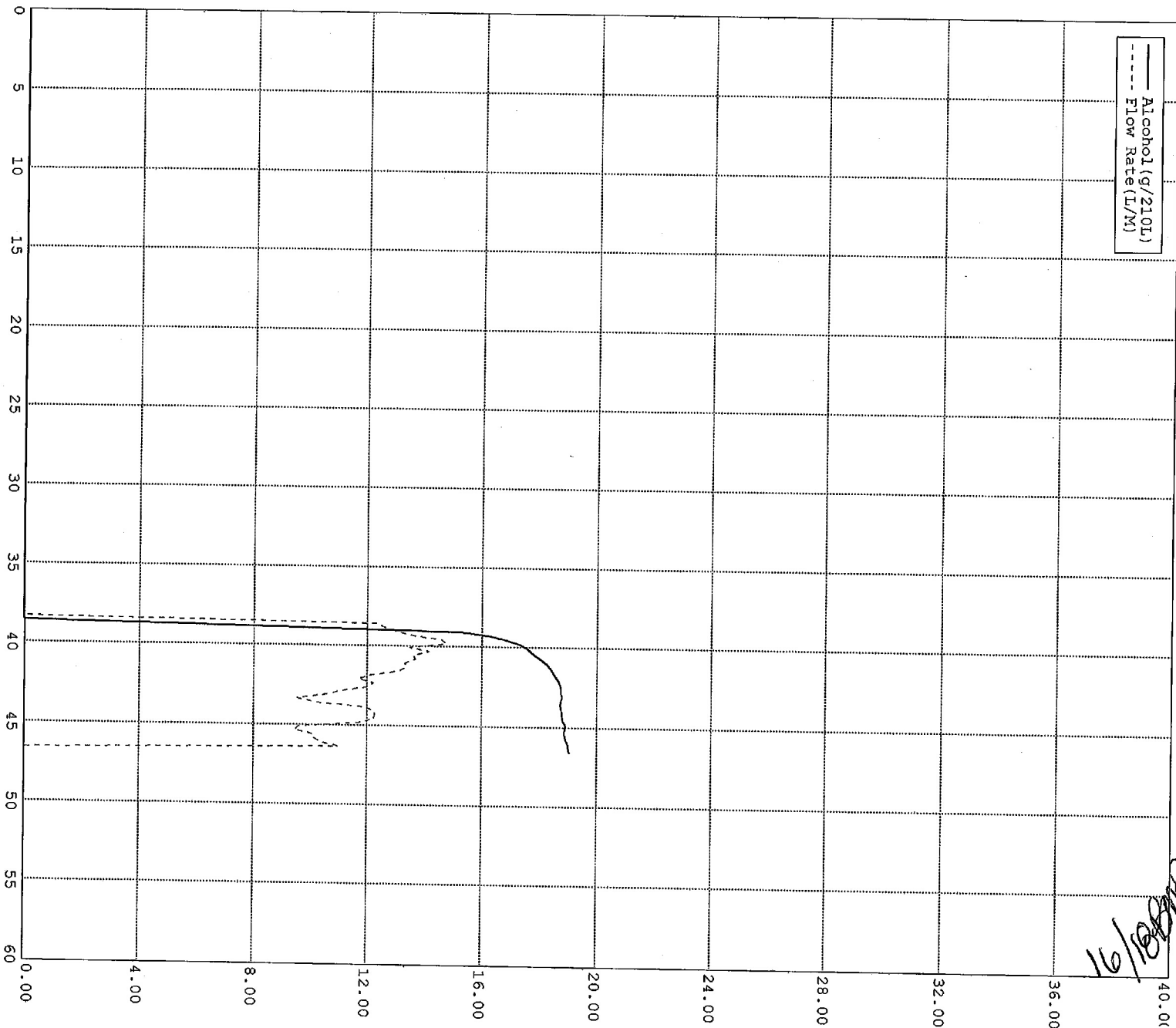
OPERATOR NAME:
 ETHANOL AND ISOPROPANOL
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.48: 0.078
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:31
BLANK TEST	0.000	14:31
INTERNAL STANDARD	VERIFIED	14:31
EXTERNAL STANDARD	0.080	14:31
BLANK TEST	0.000	14:32
SUBJECT SAMPLE	INTERFERENCE	14:33

EMB

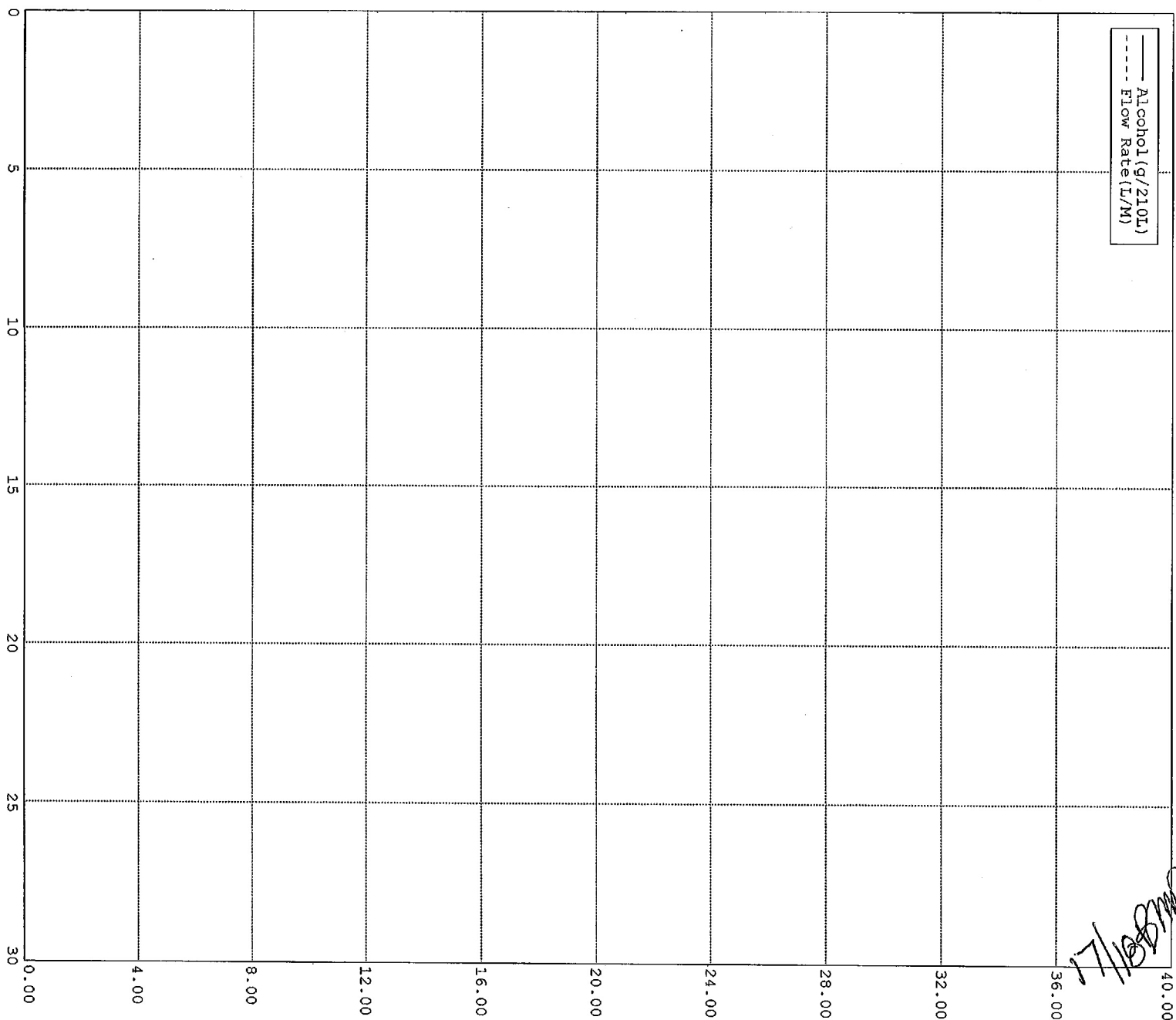


4/28/11
 16/10/11

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100361Date: 03/25/2011
Time: 14:42:25SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
RADIO INTERFERENCE
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.48: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 14:43
INTERNAL STANDARD VERIFIED 14:43
EXTERNAL STANDARD 0.078 14:43
BLANK TEST 0.000 14:44

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100361

Date: 03/25/2011

Time: 15:06:00

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

BRANDI M BARNETT

OPERATOR'S #: 7038

DEPT/AGENCY:

NON-DRINKING SUBJECT TEST

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.48: 0.078

LOT #: 0251080A3

EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK

TEST	PASSED	TIME
BLANK TEST	0.000	15:07
INTERNAL STANDARD	0.079	15:07
EXTERNAL STANDARD	0.000	15:08
BLANK TEST	0.000	15:08
SUBJECT SAMPLE	0.000	15:09
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.078	15:09
BLANK TEST	0.000	15:10

BMP

