

	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 # 130356Analyst Brandi BarnettDate 3/11/2011

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 02/01/2013
 - ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 02/01/2013
 - iii. 0.080g/210L Mnf ILMO Lot 33609080A1 Exp 01/01/2012
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 03/01/2013
 - v. 0.200g/210L Mnf ILMO Lot 176110200A1 Exp 07/01/2012
 - vi. 0.300g/210L Mnf ILMO Lot 02811300A4 Exp 02/01/2013
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 8/4/2010 SN SD1202
 - d. RFI ☒
7. Calibrate Stylus ☒
8. Verify card reader is functional ☒
9. Upload ☒
10. Reset Options ☒
11. Non-Drinking Subject Test (attached)

1/18 BNB

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100356

Date: 03/11/2011
Time: 12:09:41

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 47.8°C	PASSED

PUMP INFO

Flow Rate = 5.153 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 BMB

Technician Screen

DATAMASTER dmt: 100356
-----Date: 03/11/2011
Time: 12:24 PMTemperatures (°C)
Sample Cell: 49.0°C
Breath Tube: 47.9°CCurrent Barometer 29.7 in
Volume (litr) 1.53Settings
Lamp: 2.12 V
Bias: 79 V
Cooler: 1.69 V
Chopper: 536 HzVoltages (V)
Flow: 1.05 V
Detector: 0.586 V

3/18/2011

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100356

Date: 01/11/2011
Time: 11:05:53

Ca	=	0.1000		
CAL	=	0.997944	0.800	<= CAL < 1.200
b1	=	0.0005	0.0000	<= b1 < 0.0040
b2	=	0.0050	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.1039	0.0500	<= Xq < 0.2000
a21	=	1.189753	1.050	<= a21 < 1.300
a31	=	0.461696	0.300	<= a31 < 0.800

4/18/08
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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100356

Date: 03/11/2011
Time: 12:28:36

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

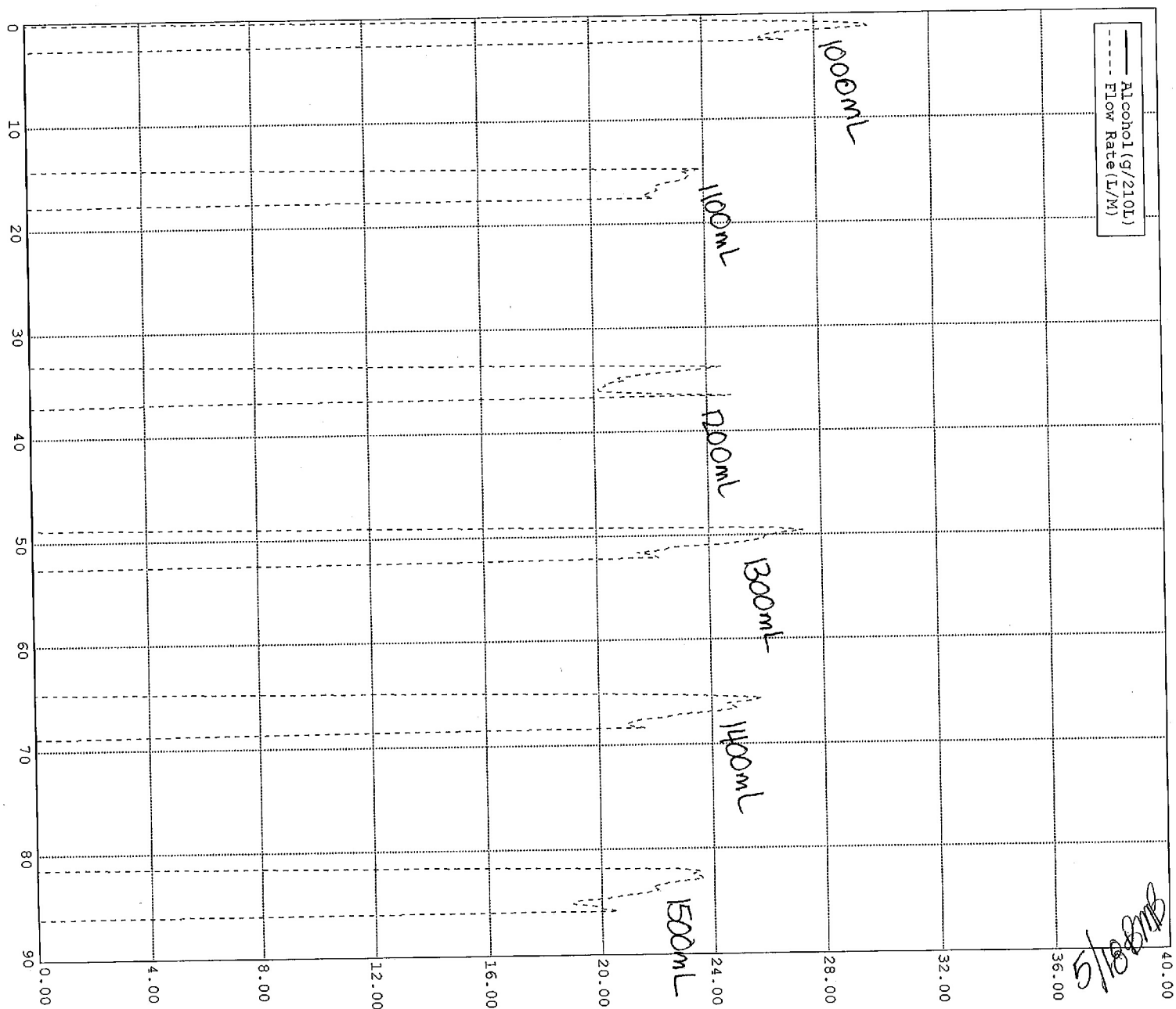
OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	12:29
BLANK TEST	0.000	12:29
INTERNAL STANDARD	VERIFIED	12:30
EXTERNAL STANDARD	0.080	12:30
BLANK TEST	0.000	12:31
SUBJECT SAMPLE	0.000	12:32
BLANK TEST	0.000	12:33
EXTERNAL STANDARD	0.079	12:33
BLANK TEST	0.000	12:34

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LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100356

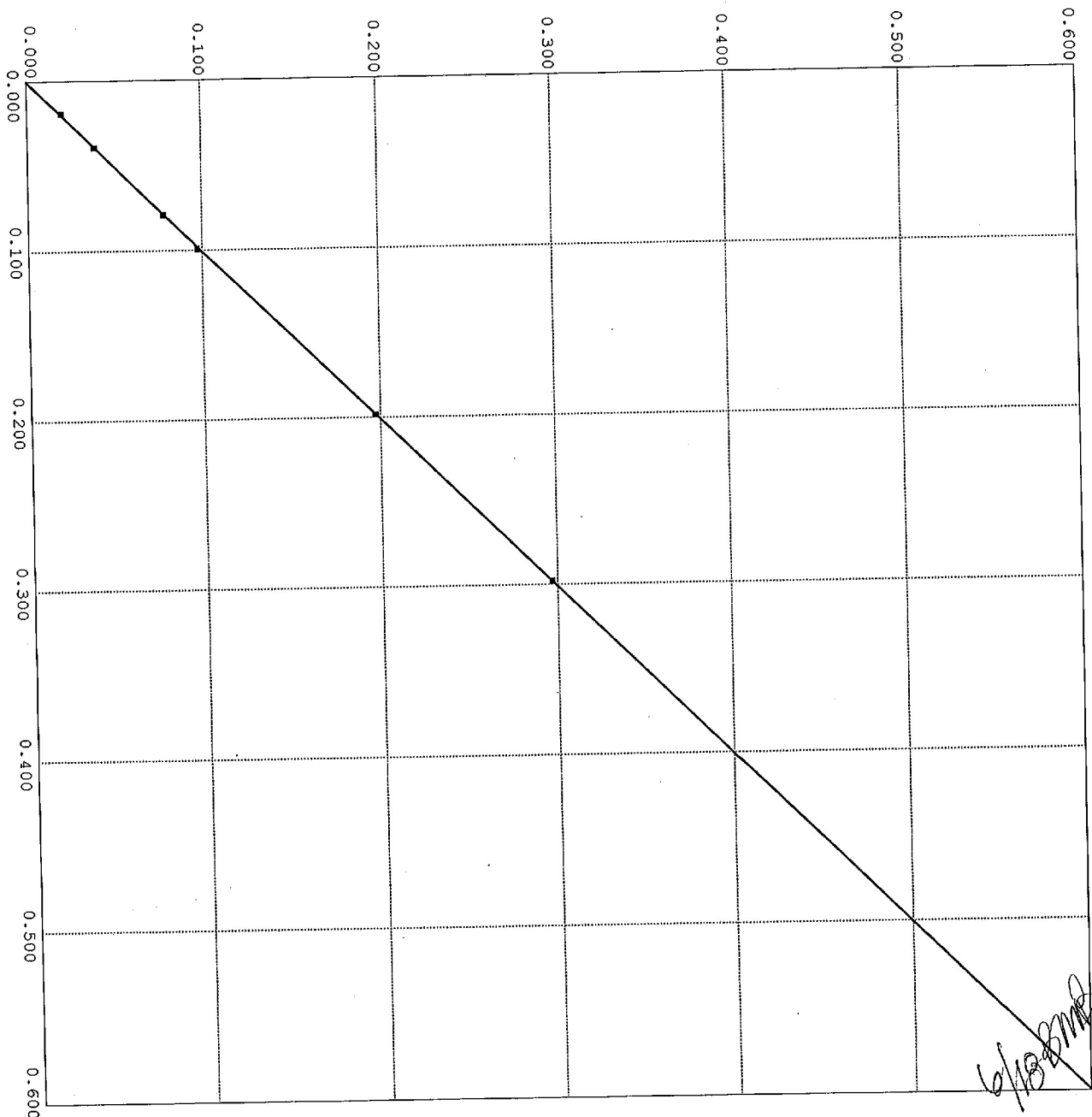
Date: 03/11/2011
 Time: 12:46:19

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.039	0.0388	0.0004
0.079	0.0786	0.0005
0.099	0.0980	0.0007
0.198	0.1980	0.0012
0.297	0.2976	0.0005

SLOPE = 1.001045
 R^2 = 0.999978

Brandi Barnett



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100356

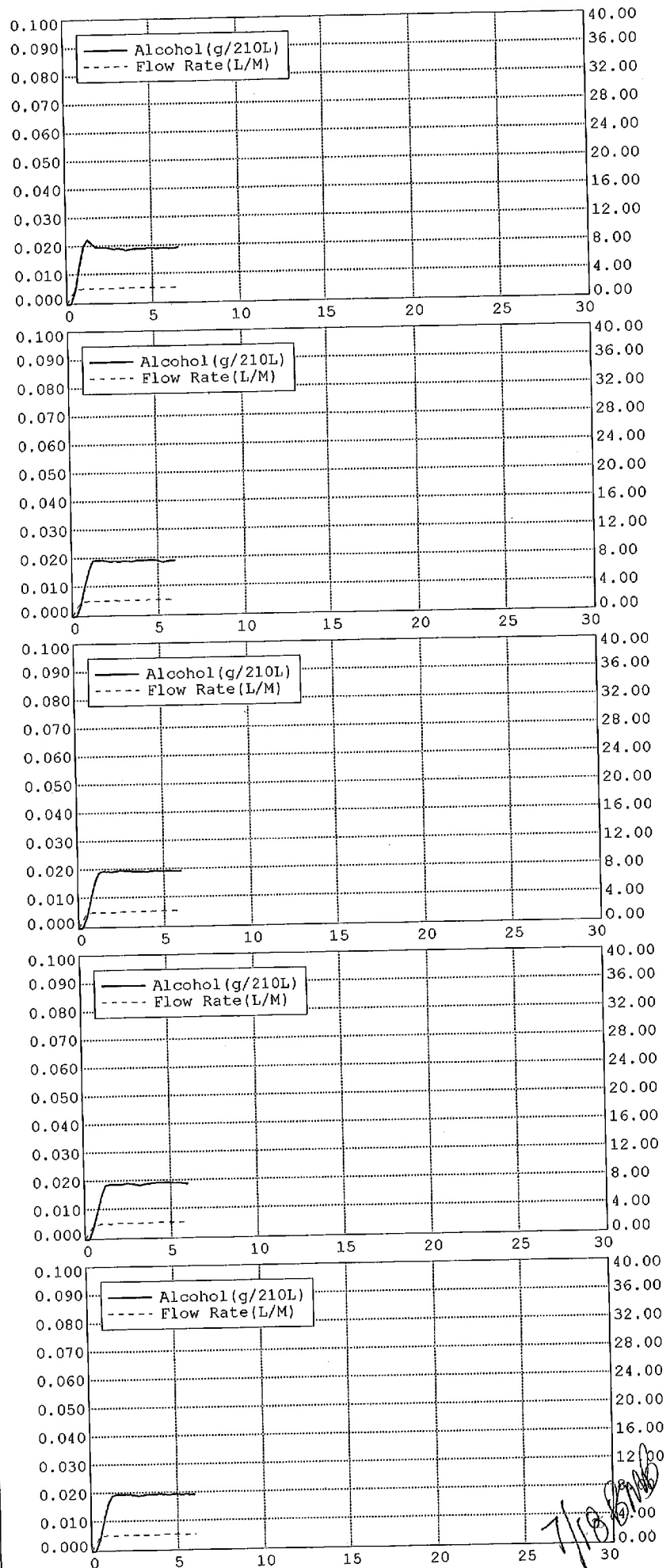
Date: 03/11/2011
Time: 12:46:21

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.71: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:48
INTERNAL STANDARD	VERIFIED	12:48
EXTERNAL STANDARD	0.020	12:49
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.020	12:50
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.020	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.020	12:52
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.020	12:53
BLANK TEST	0.000	12:54

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

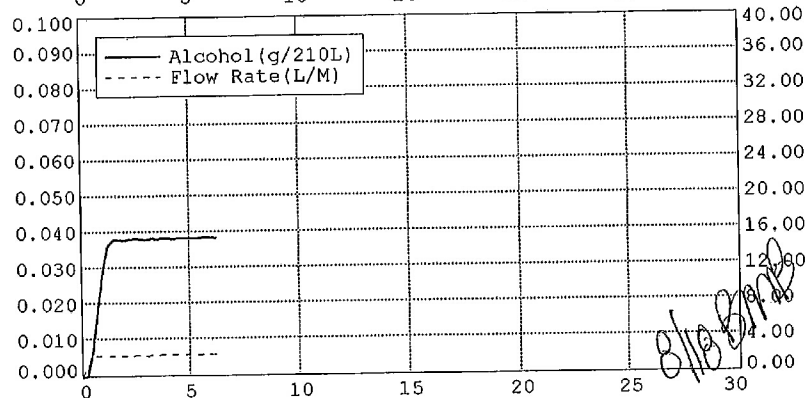
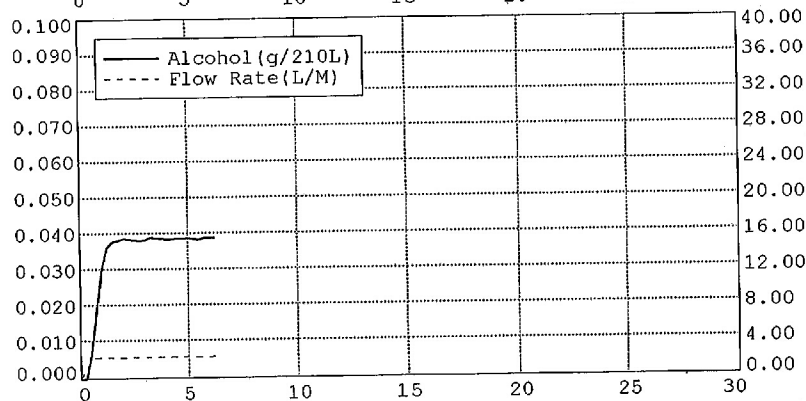
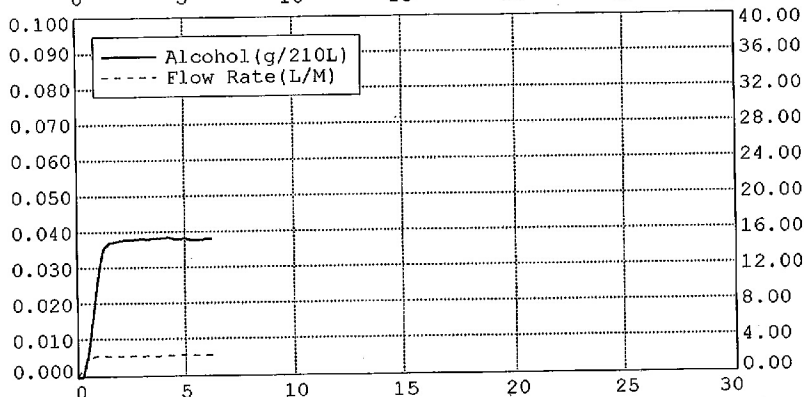
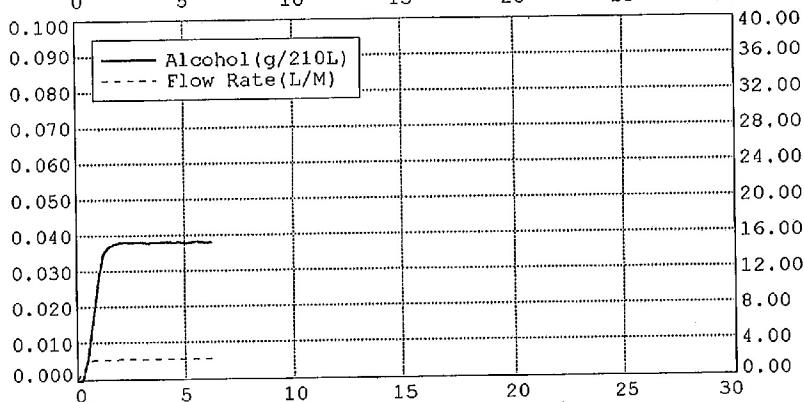
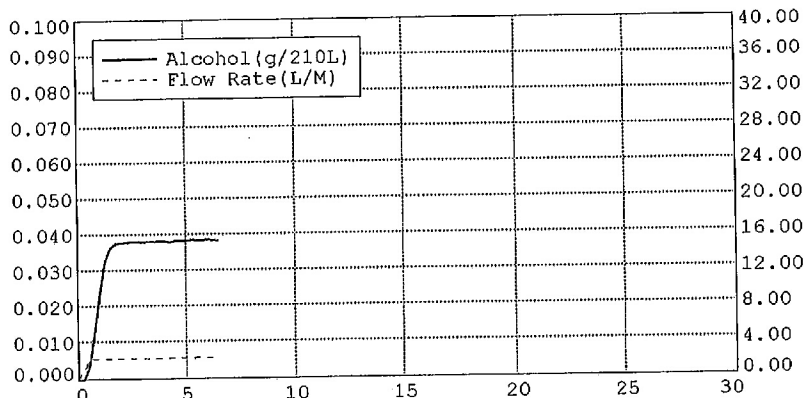
Alaska Department of Public Safety
DATAMASTER dmt: 100356

Date: 03/11/2011
Time: 12:59:58

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.71: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:01
INTERNAL STANDARD	VERIFIED	13:01
EXTERNAL STANDARD	0.039	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.039	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.038	13:04
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.039	13:05
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.039	13:06
BLANK TEST	0.000	13:07

Average = 0.0388
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

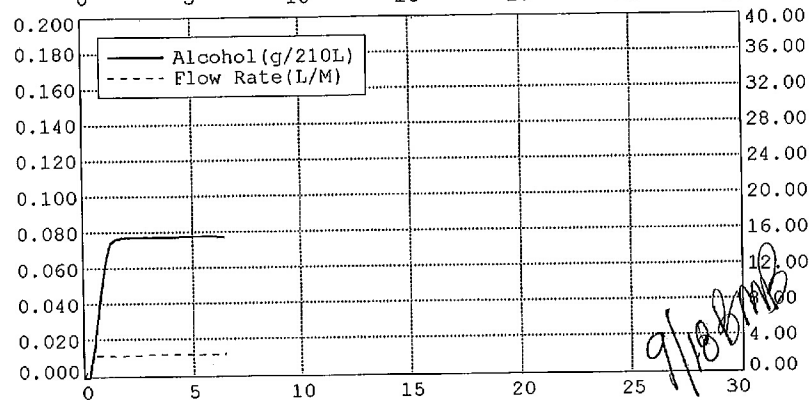
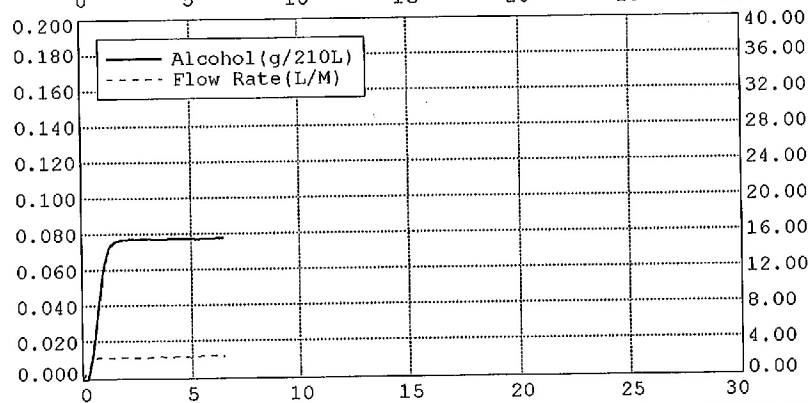
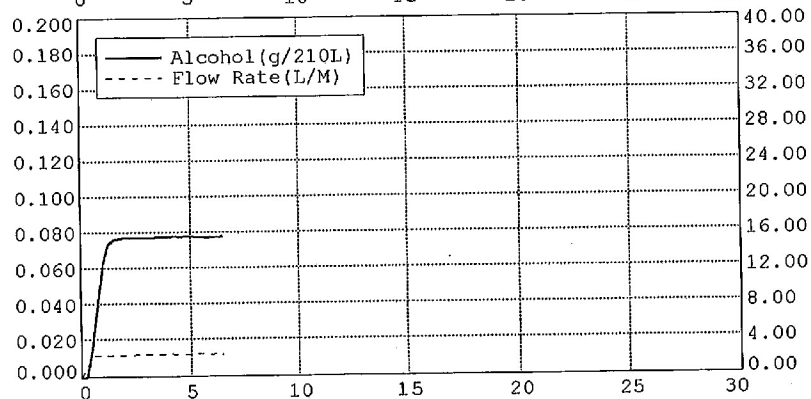
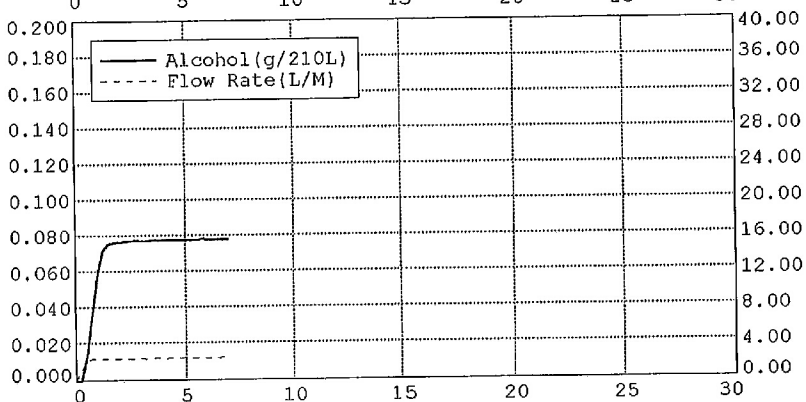
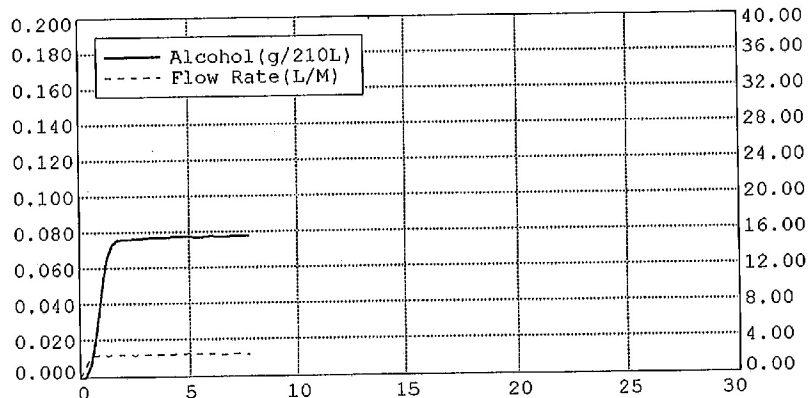
Alaska Department of Public Safety
DATAMASTER dmt: 100356

Date: 03/11/2011
Time: 13:09:50

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.71: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	13:11
INTERNAL STANDARD	VERIFIED	13:11
EXTERNAL STANDARD	0.079	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.078	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.079	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.078	13:15
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.079	13:16
BLANK TEST	0.000	13:17

Average = 0.0786
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

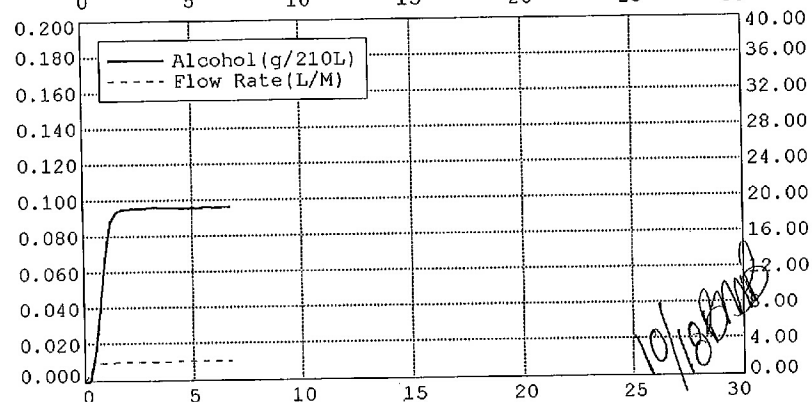
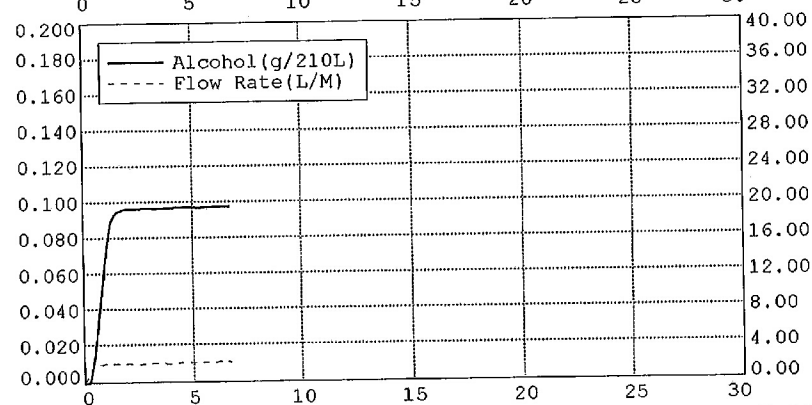
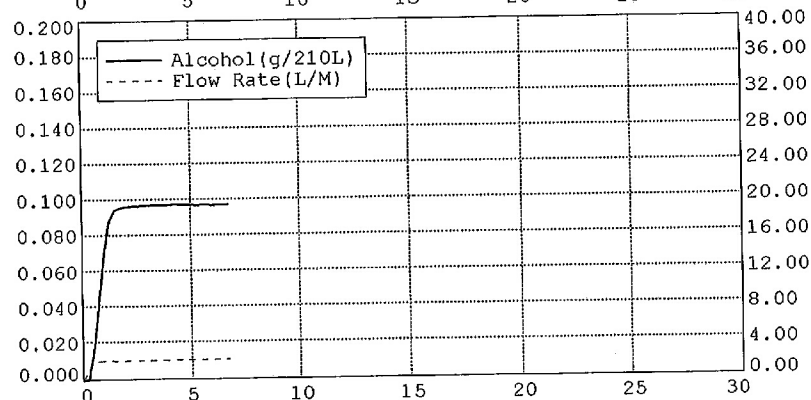
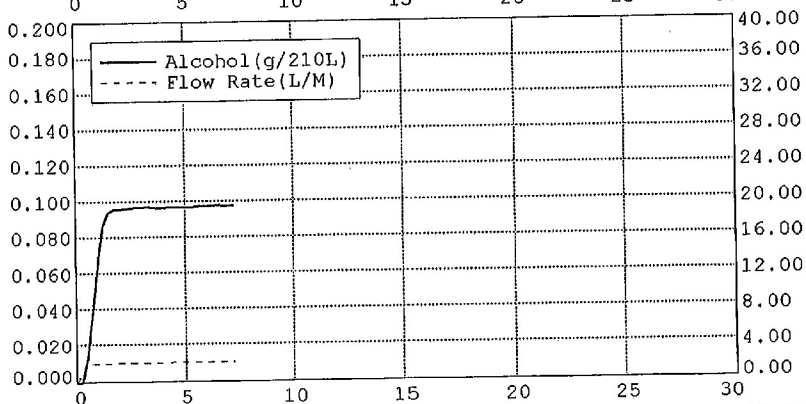
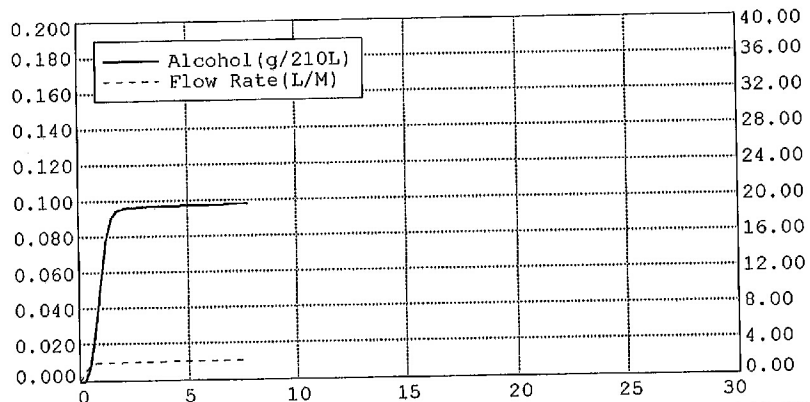
Alaska Department of Public Safety
DATAMASTER dmt: 100356

Date: 03/11/2011
Time: 13:20:14

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.72: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:22
INTERNAL STANDARD	VERIFIED	13:22
EXTERNAL STANDARD	0.099	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.098	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.098	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.098	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.097	13:27
BLANK TEST	0.000	13:28

Average = 0.0980
Std Dev = 0.0007



LINEARITY CHECK: Control Test 5

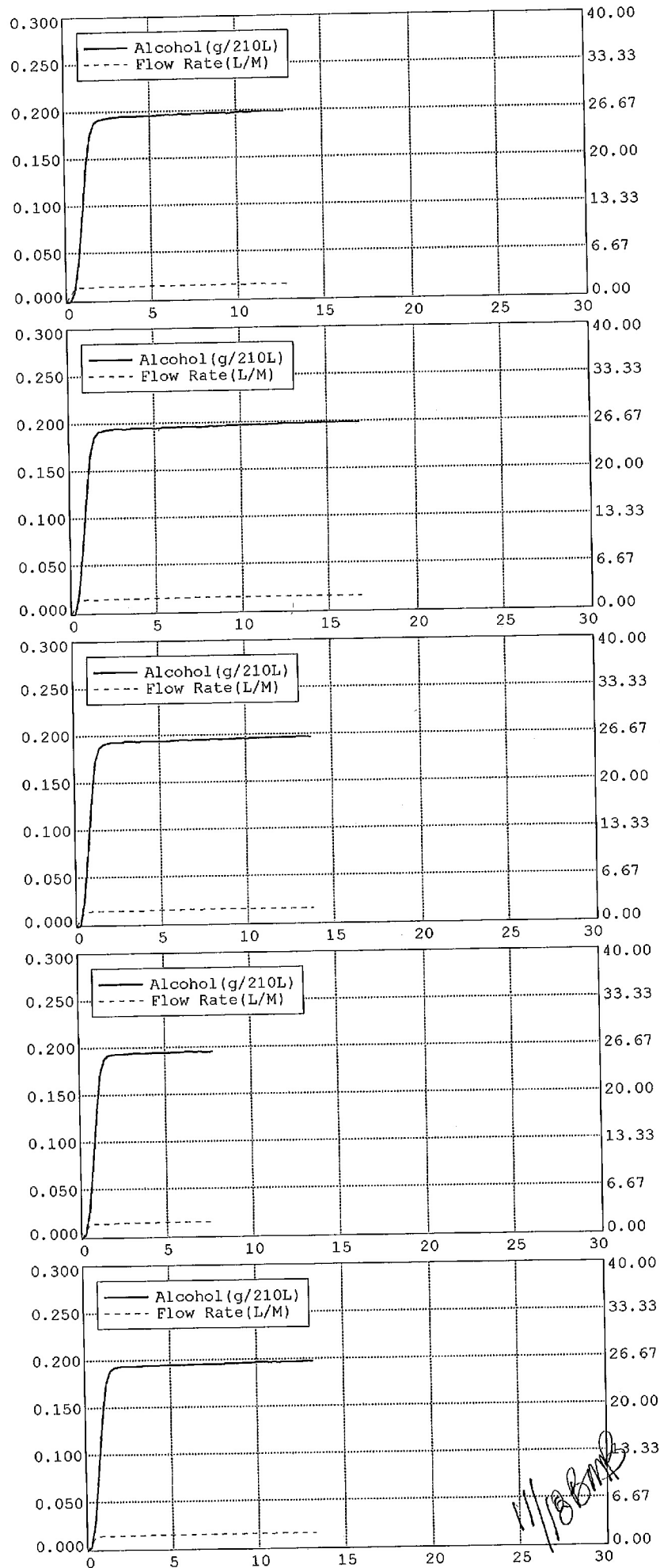
Alaska Department of Public Safety
DATAMASTER dmt: 100356

Date: 03/11/2011
Time: 13:32:13

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.200
TARGET AT 29.71: 0.198
LOT #: 176110200A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	13:33
INTERNAL STANDARD	VERIFIED	13:33
EXTERNAL STANDARD	0.199	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.199	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.198	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.196	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.198	13:39
BLANK TEST	0.000	13:40

Average = 0.1980
Std Dev = 0.0012



LINEARITY CHECK: Control Test 6

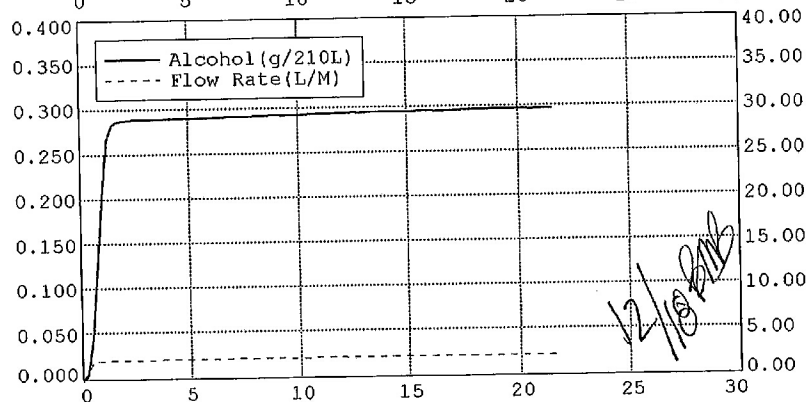
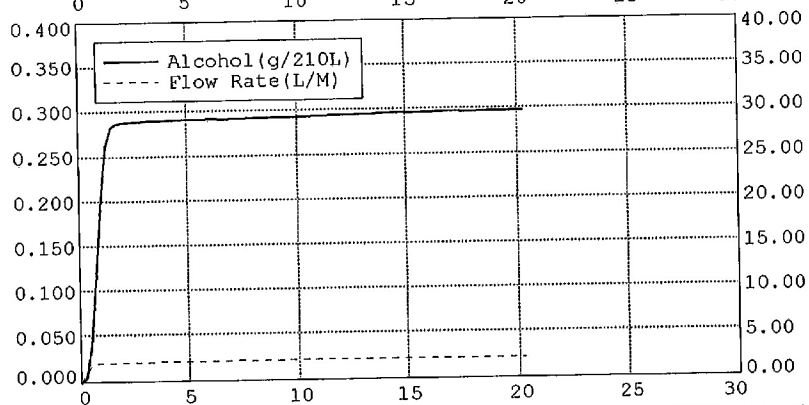
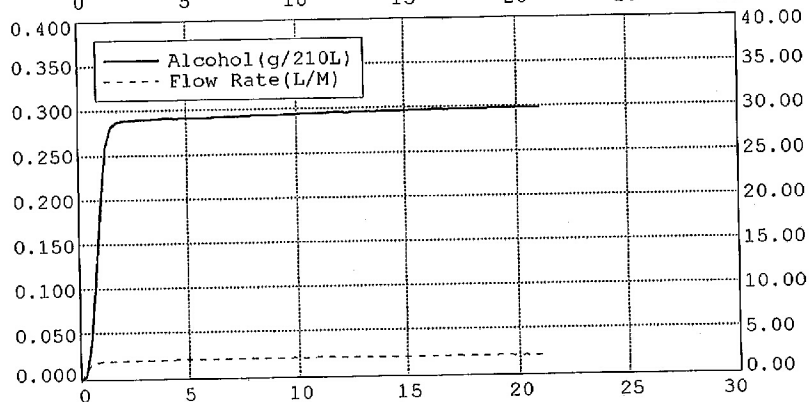
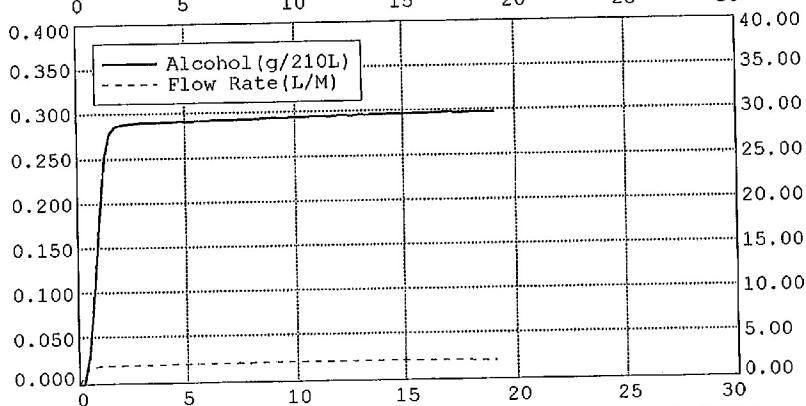
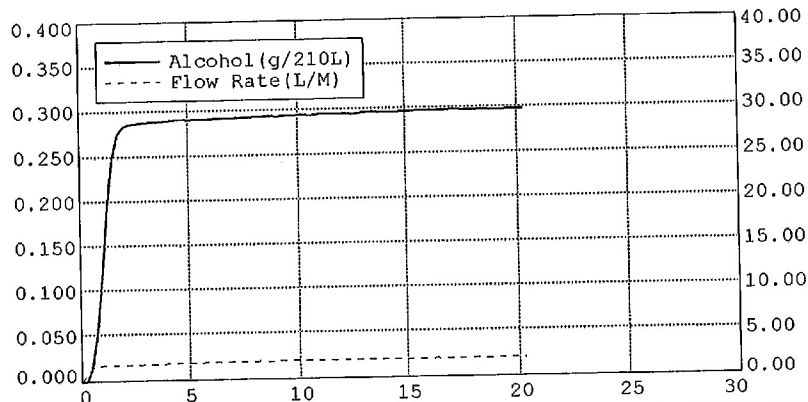
Alaska Department of Public Safety
DATAMASTER dmt: 100356

Date: 03/11/2011
Time: 13:54:52

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
TARGET AT 29.72: 0.297
LOT #: 02811300A4
EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:56
INTERNAL STANDARD	VERIFIED	13:56
EXTERNAL STANDARD	0.298	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.298	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.298	13:59
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.297	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.297	14:03
BLANK TEST	0.000	14:04

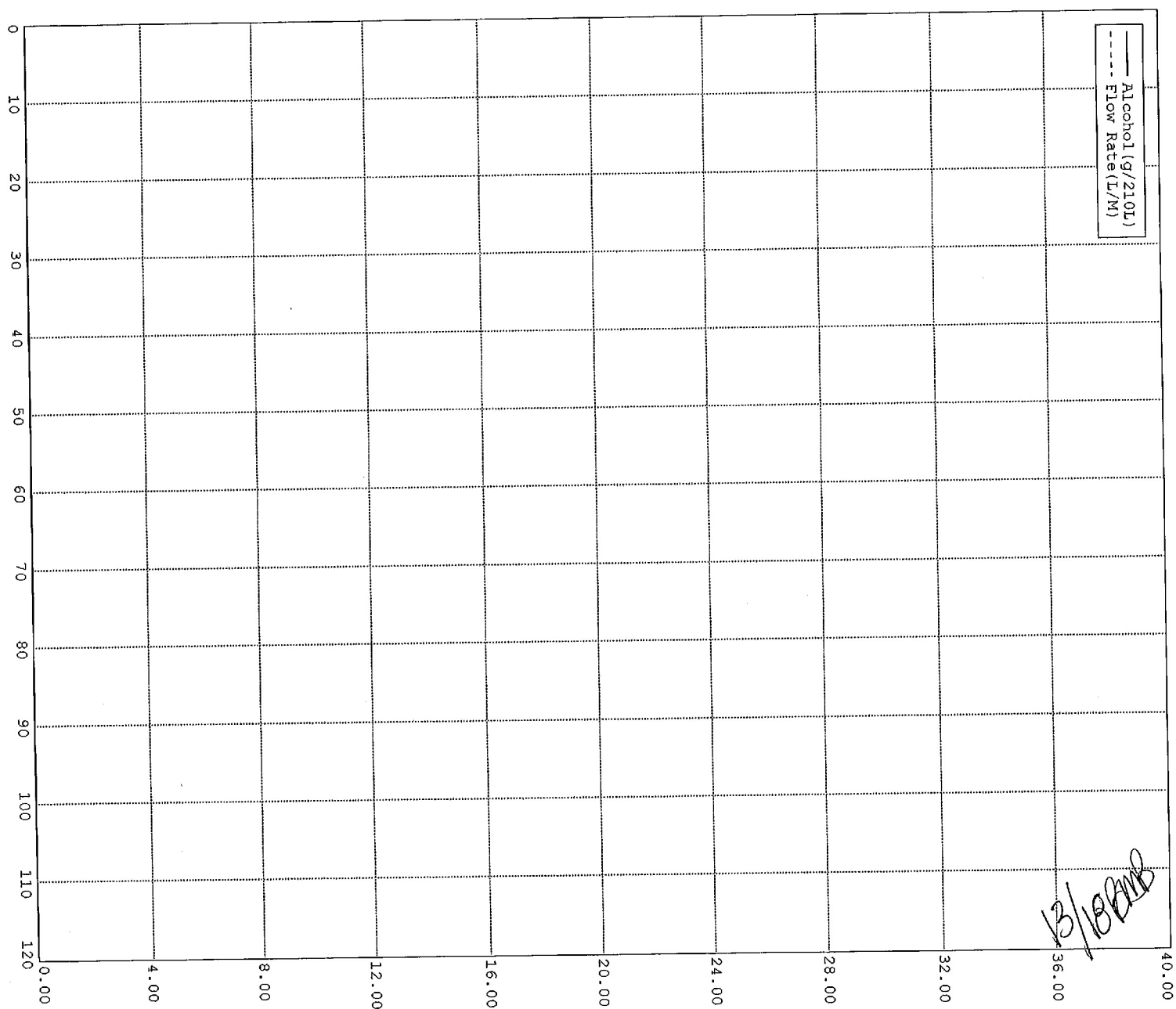
Average = 0.2976
Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100356Date: 03/11/2011
Time: 14:14:32SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INCOMPLETE XXXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
FLOW SENSOR ABORT
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.70: 0.079
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:15
BLANK TEST	0.000	14:16
INTERNAL STANDARD	VERIFIED	14:16
EXTERNAL STANDARD	0.080	14:16
BLANK TEST	0.000	14:17
SUBJECT SAMPLE	INCOMPLETE	14:19

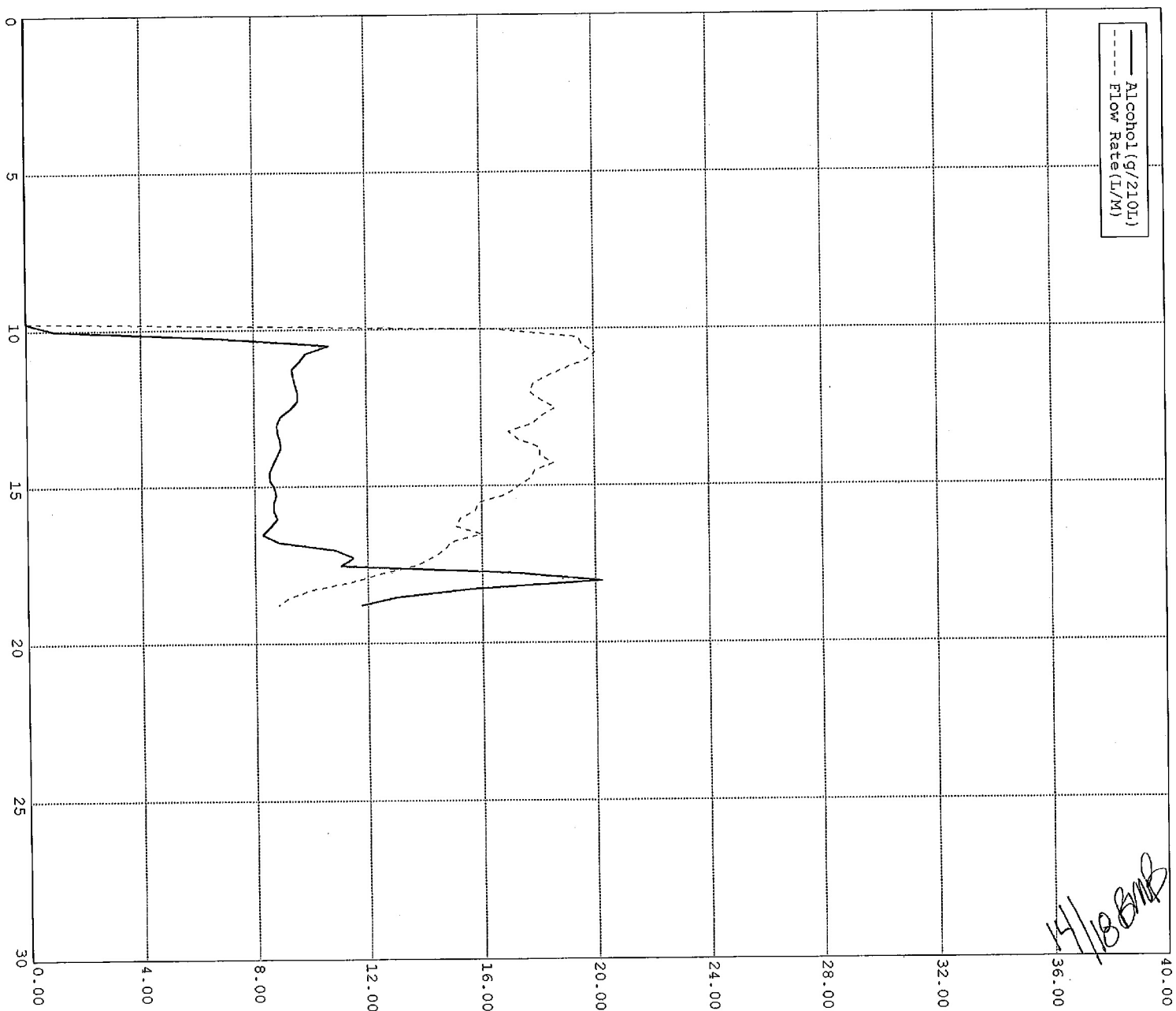


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100356Date: 03/11/2011
Time: 14:22:37SUBJECT NAME:
TEST TEST
LICENSE #: INVALIDOPERATOR NAME:
KNOWN MOUTH
OPERATOR'S #: ZZZZDEPT/AGENCY:
ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.70: 0.079
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:23
BLANK TEST	0.000	14:23
INTERNAL STANDARD	VERIFIED	14:24
EXTERNAL STANDARD	0.079	14:24
BLANK TEST	0.000	14:25
SUBJECT SAMPLE	Invalid	14:25

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11/18

SUBJECT TEST

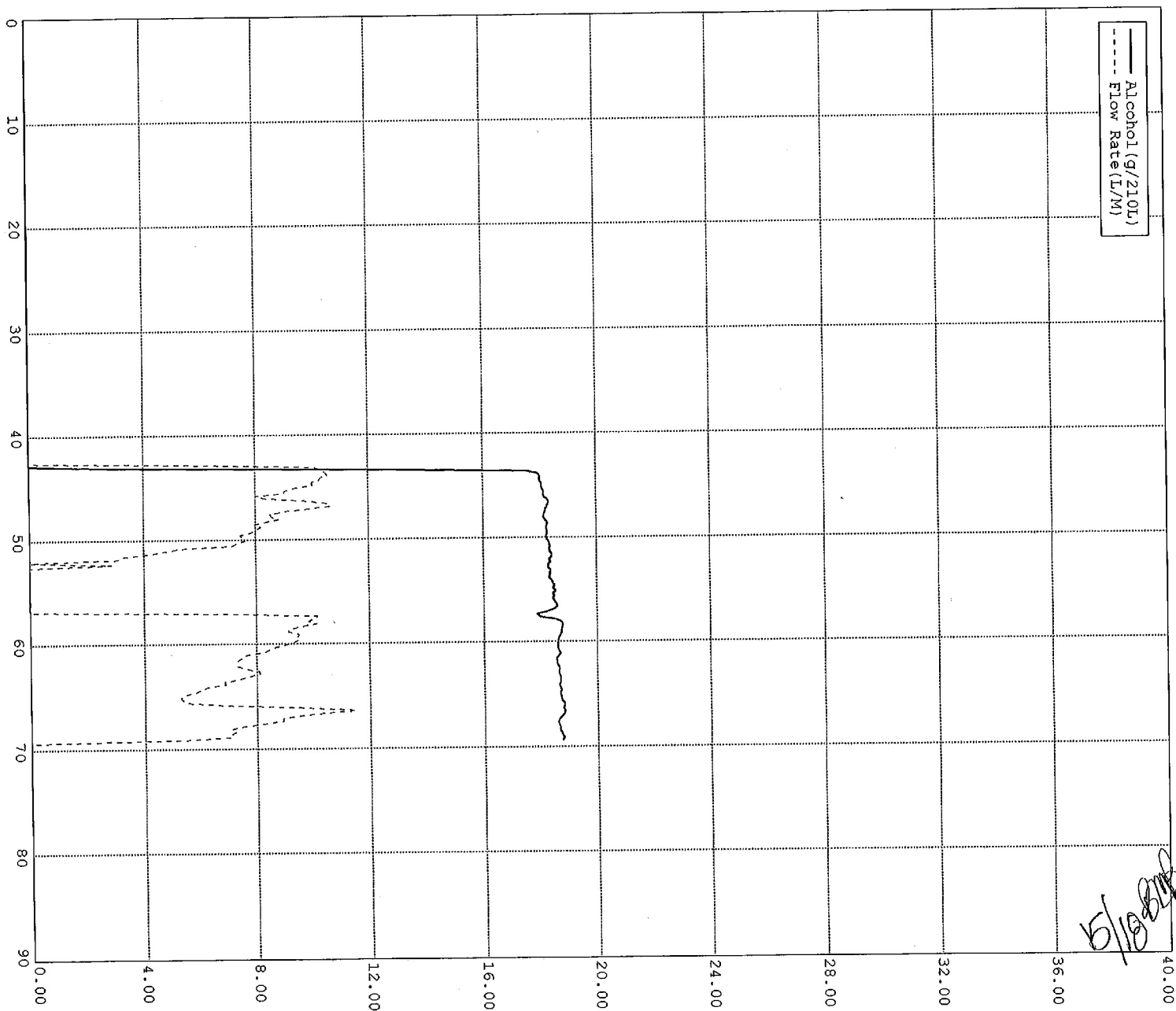
Alaska Department of Public Safety
DATAMASTER dmt: 100356Date: 03/14/2011
Time: 08:33:03SUBJECT NAME:
TEST TEST
LICENSE #: INTERFEREOPERATOR NAME:
ETHANOL AND ACETONE
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.26: 0.078
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	08:34
BLANK TEST	0.000	08:34
INTERNAL STANDARD	VERIFIED	08:34
EXTERNAL STANDARD	0.079	08:34
BLANK TEST	0.000	08:35
SUBJECT SAMPLE	INTERFERENCE	08:36

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SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100356

Date: 03/14/2011
 Time: 08:04:12

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERPERE

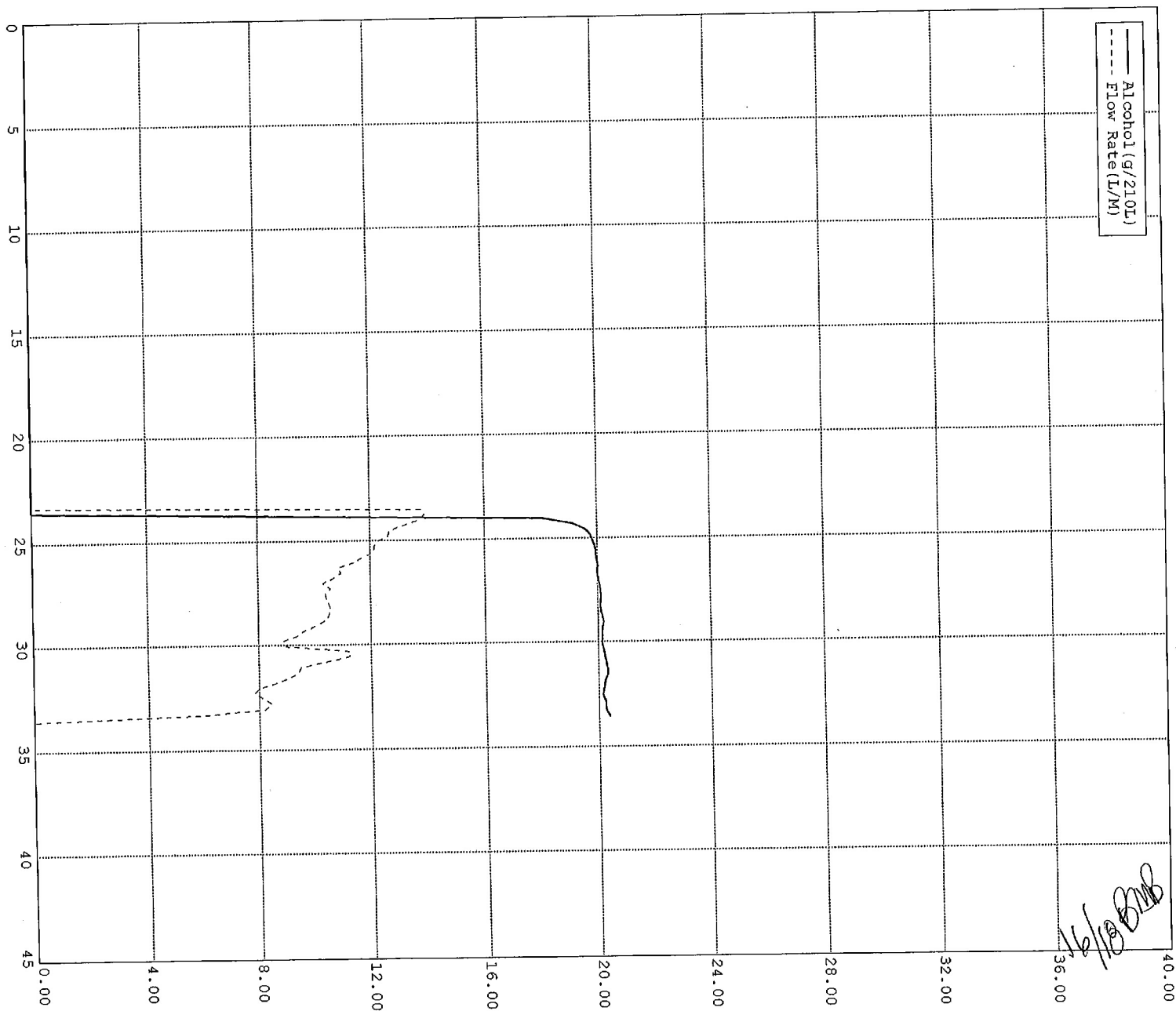
OPERATOR NAME:
 ETHANOL AND ISOPROPANOL
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.25: 0.078
 LOT #: 34409080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	08:06
BLANK TEST	0.000	08:06
INTERNAL STANDARD	VERIFIED	08:06
EXTERNAL STANDARD	0.079	08:06
BLANK TEST	0.000	08:07
SUBJECT SAMPLE	INTERFERENCE	08:08

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



BMB

16/10 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100356

Date: 03/11/2011
Time: 14:54:14

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
RADIO FREQUENCY
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.70: 0.079
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:55
BLANK TEST	0.000	14:55
INTERNAL STANDARD	VERIFIED	14:55
EXTERNAL STANDARD	0.079	14:55

RFI Detected

17/10/09

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100356

Date: 03/14/2011
 Time: 08:22:42

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 29.27: 0.078
 LOT #: 34409080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	08:24
BLANK TEST	0.000	08:24
INTERNAL STANDARD	VERIFIED	08:24
EXTERNAL STANDARD	0.078	08:24
BLANK TEST	0.000	08:25
SUBJECT SAMPLE	0.000	08:25
BLANK TEST	0.000	08:26
EXTERNAL STANDARD	0.078	08:27
BLANK TEST	0.000	08:28

Brandi M Barnett

