

	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 # 100376
 Analyst Brandi Barnett
 Date 3/10/11

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 02811020A1 Exp 02/01/2013
 - ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 02/01/2013
 - iii. 0.080g/210L Mnf ILMO Lot 3360908A1 Exp 01/01/2012
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 03/01/2013
 - v. 0.200g/210L Mnf ILMO Lot 05611200A3 Exp 03/01/2013
 - vi. 0.300g/210L Mnf ILMO Lot 15210300A3 Exp 03/01/2013 ^{AMB}
07/01/2012 _{3/10/11}
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 DR62467
 - 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: 100376

Date: 03/18/2011
Time: 11:00:01

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 47.9°C	PASSED

PUMP INFO

Flow Rate = 4.637 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
MB

Technician Screen

DATAMASTER dmt: 100376

Date: 03/18/2011

Time: 11:03 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 47.3°C

Current Barometer 30.0 in

Volume (Ltr) 1.42

Settings

Lamp: 1.62 V

Bias: 79 V

Cooler: 1.61 V

Chopper: 533 Hz

Voltages (V)

Flow: 1.06 V

Detector: 0.439 V

3/18/11 MB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 03/02/2011

Time: 16:04:33

Ca = 0.1000
CAL = 0.982831 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0041 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0775 0.0500 <= Xq < 0.2000
a21 = 1.184234 1.050 <= a21 < 1.300
a31 = 0.361160 0.300 <= a31 < 0.800

4/18/11
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SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

Date: 03/18/2011
 Time: 11:04:57

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

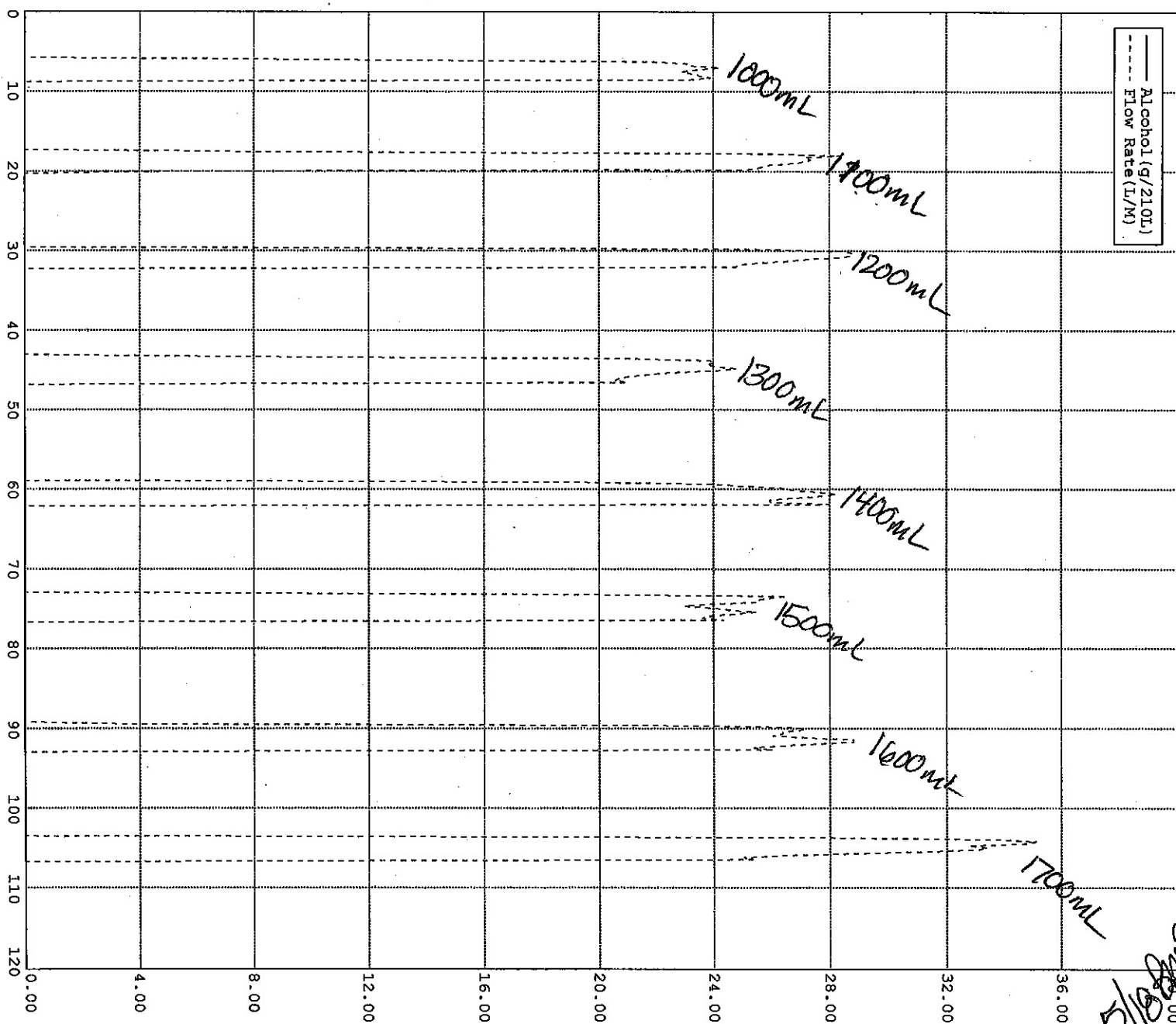
OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.99: 0.080
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	11:06
BLANK TEST	0.000	11:06
INTERNAL STANDARD	VERIFIED	11:06
EXTERNAL STANDARD	0.081	11:06
BLANK TEST	0.000	11:07
SUBJECT SAMPLE	0.000	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.081	11:10
BLANK TEST	0.000	11:11

BMB



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

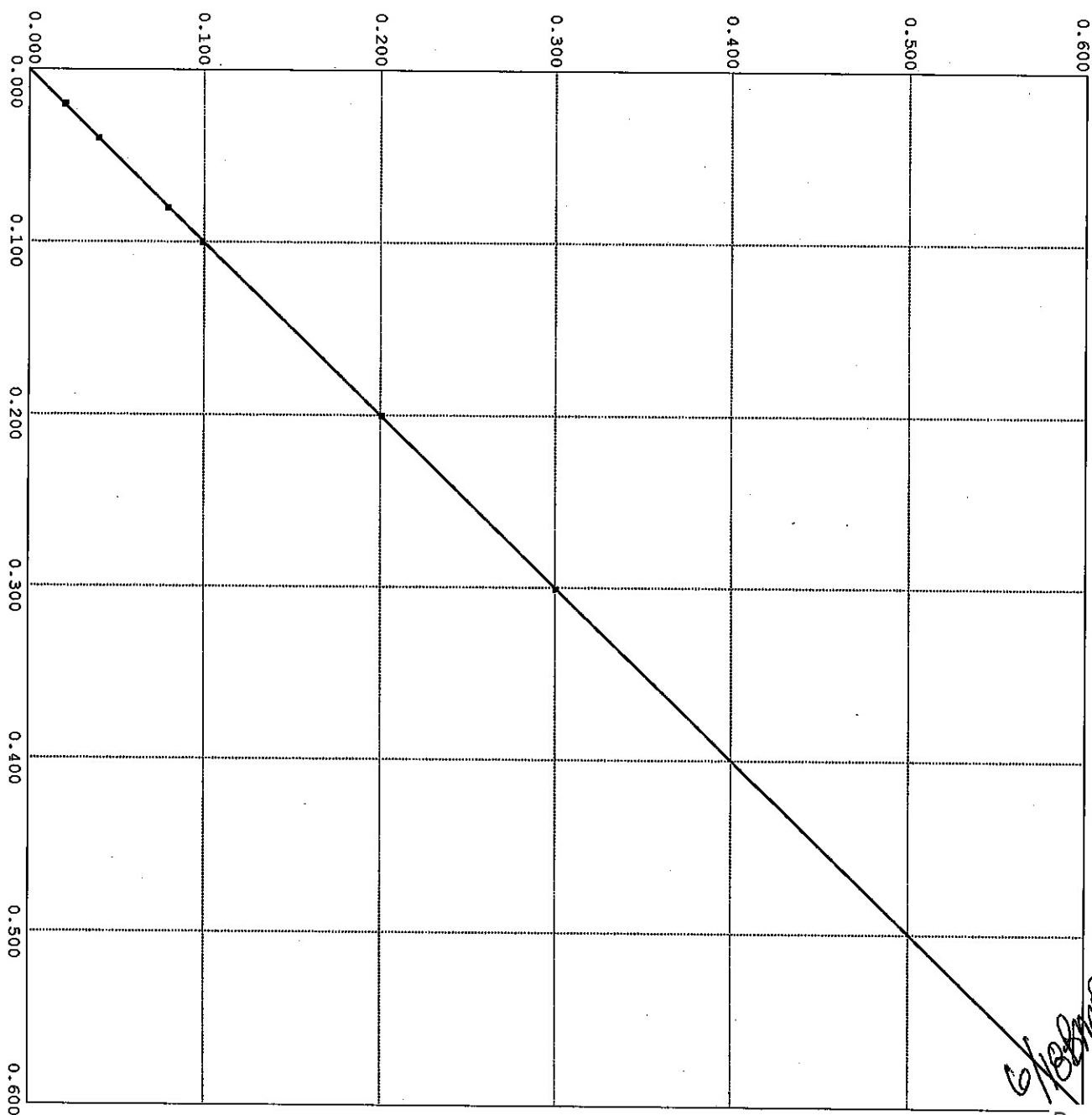
Date: 03/18/2011
 Time: 13:35:30

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0210	0.0000
0.040	0.0402	0.0004
0.080	0.0802	0.0004
0.100	0.1000	0.0000
0.200	0.2018	0.0015
0.300	0.3010	0.0012

SLOPE = 1.003256
 R^2 = 0.999985

BNB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 03/18/2011

Time: 13:35:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020

TARGET AT 29.97: 0.020

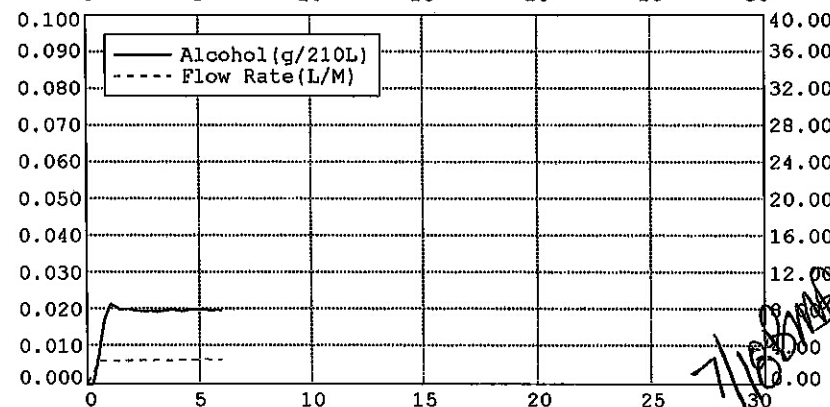
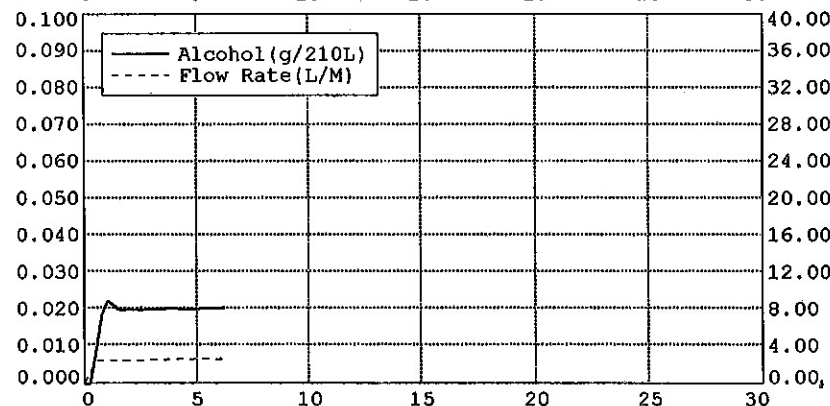
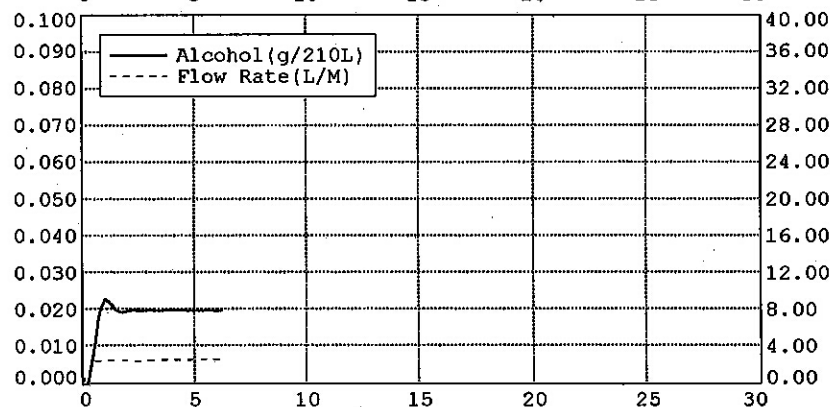
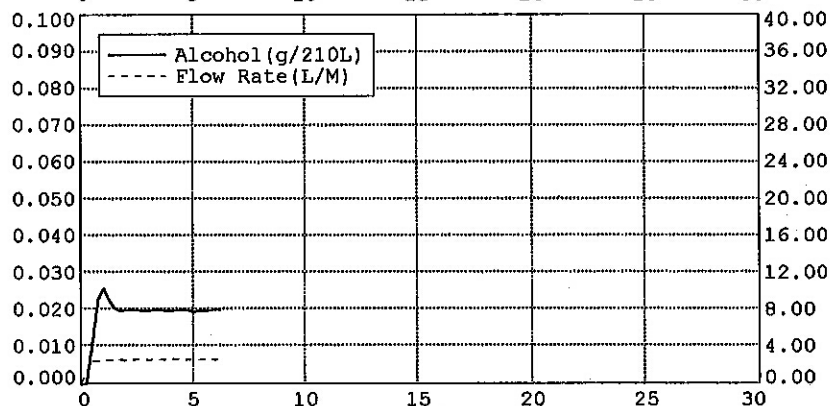
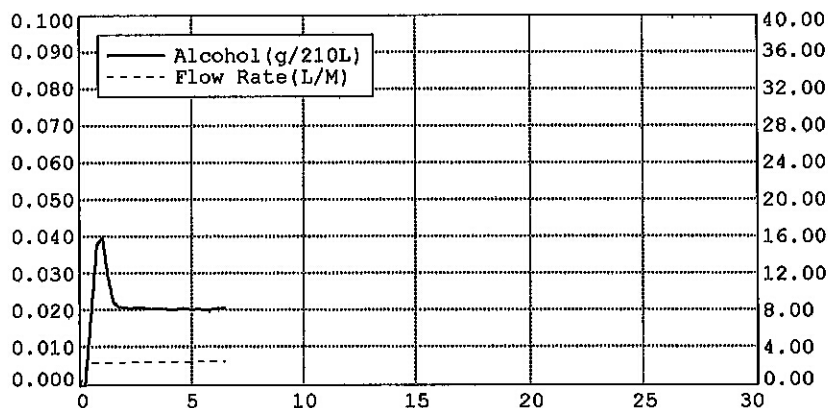
LOT #: 02811020A1

EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:36
INTERNAL STANDARD	VERIFIED	13:37
EXTERNAL STANDARD	0.021	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.021	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.021	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.021	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.021	13:41
BLANK TEST	0.000	13:42

Average = 0.0210

Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100376

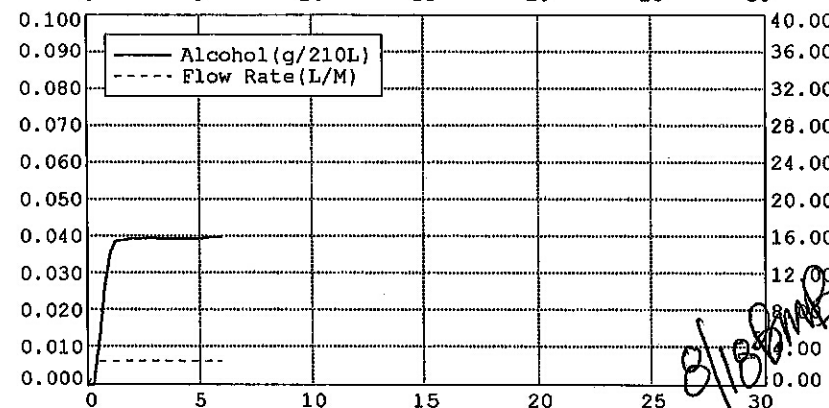
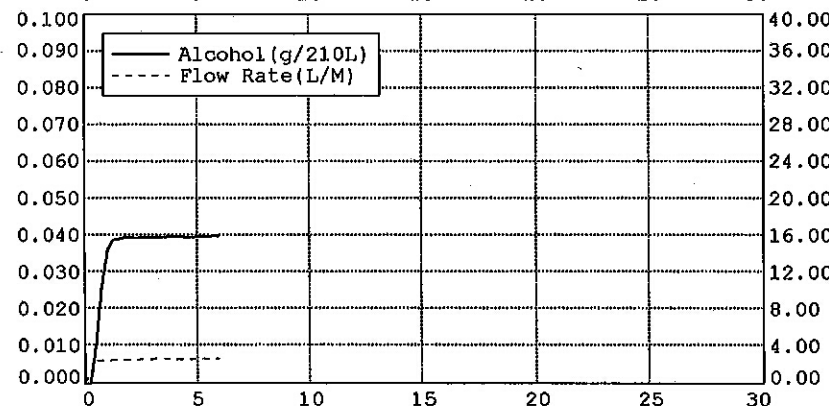
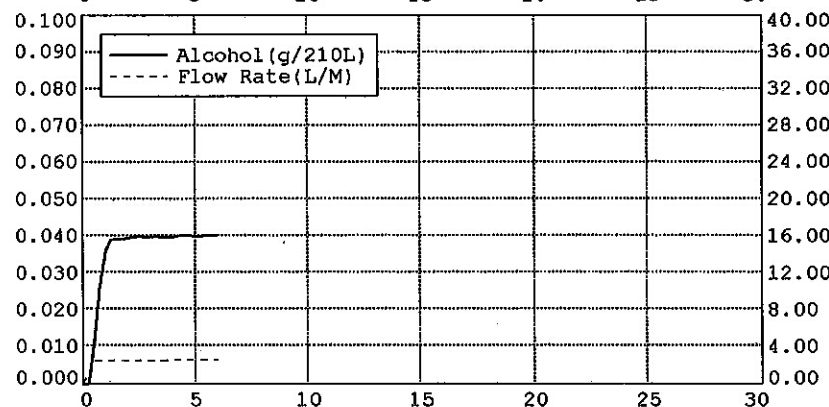
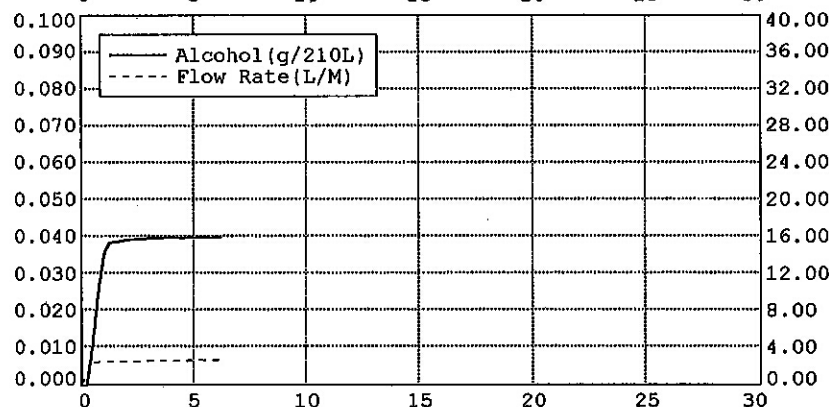
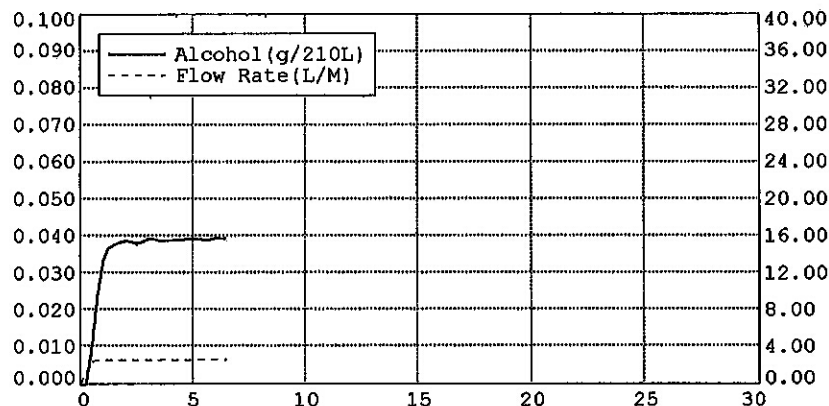
Date: 03/18/2011
Time: 13:44:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.97: 0.040
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:45
INTERNAL STANDARD	VERIFIED	13:46
EXTERNAL STANDARD	0.040	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.040	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.041	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.040	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.040	13:50
BLANK TEST	0.000	13:51

Average = 0.0402
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100376

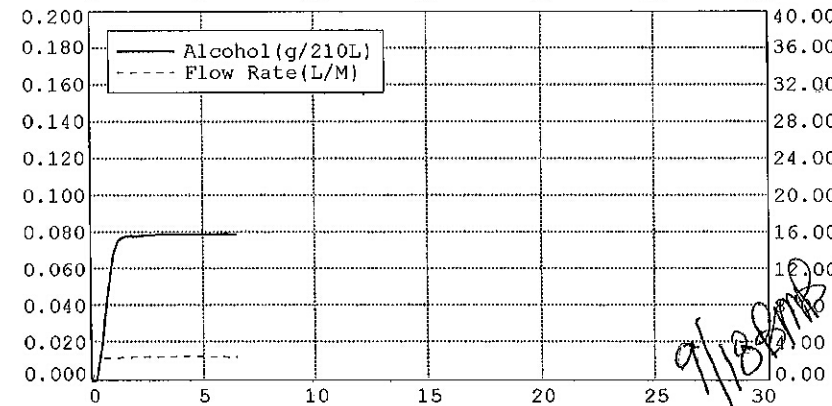
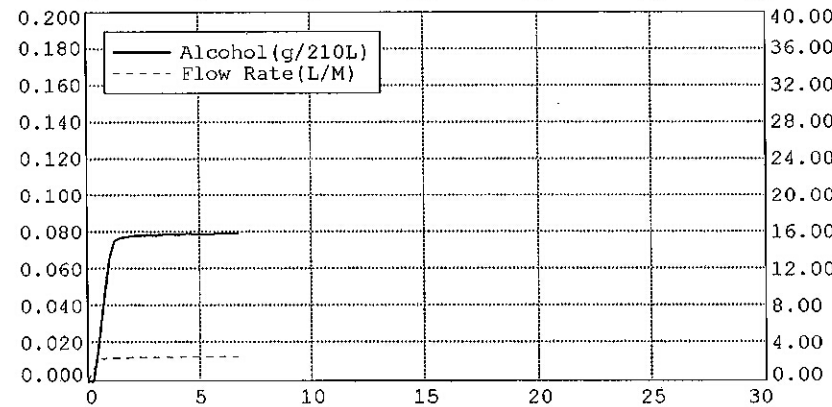
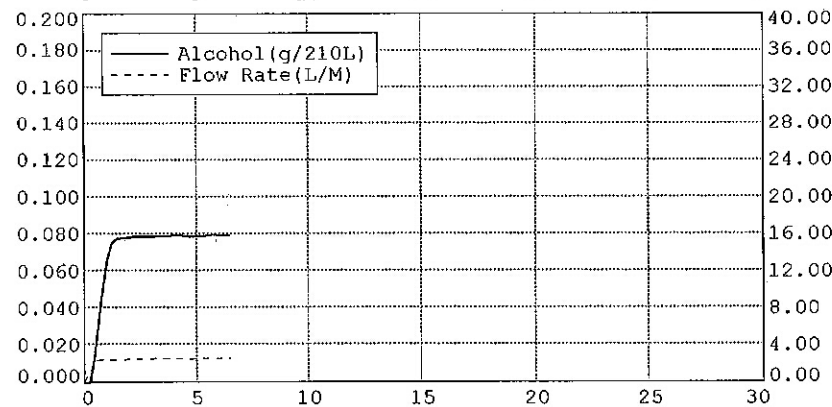
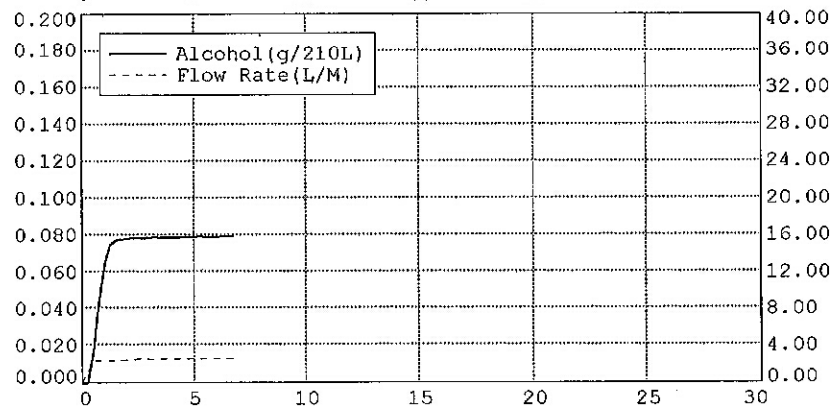
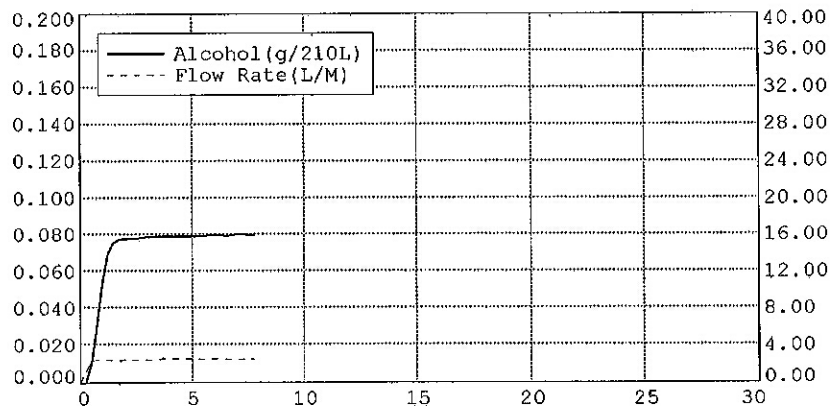
Date: 03/18/2011
Time: 13:53:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.97: 0.080
LOT #: 33609080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	13:54
INTERNAL STANDARD	VERIFIED	13:54
EXTERNAL STANDARD	0.081	13:54
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.080	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.080	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.080	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.080	13:58
BLANK TEST	0.000	13:59

Average = 0.0802
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100376

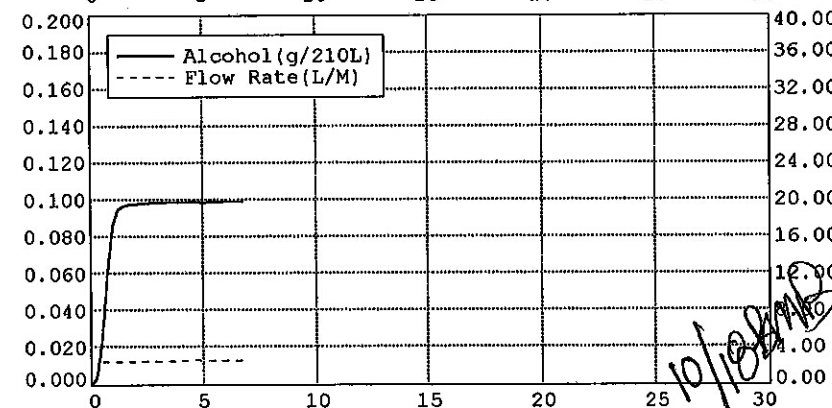
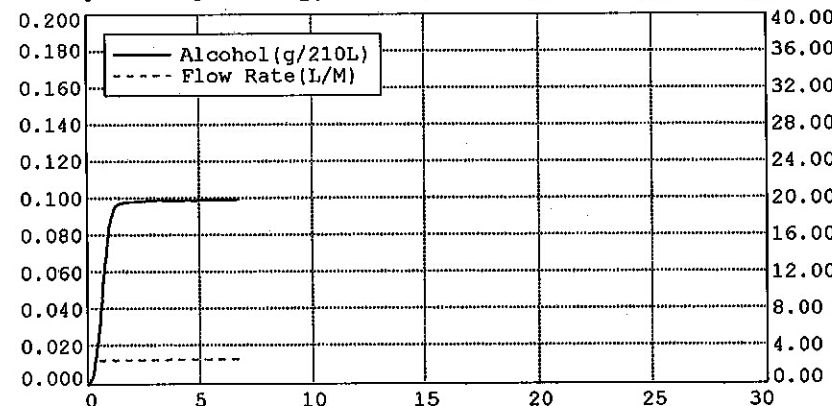
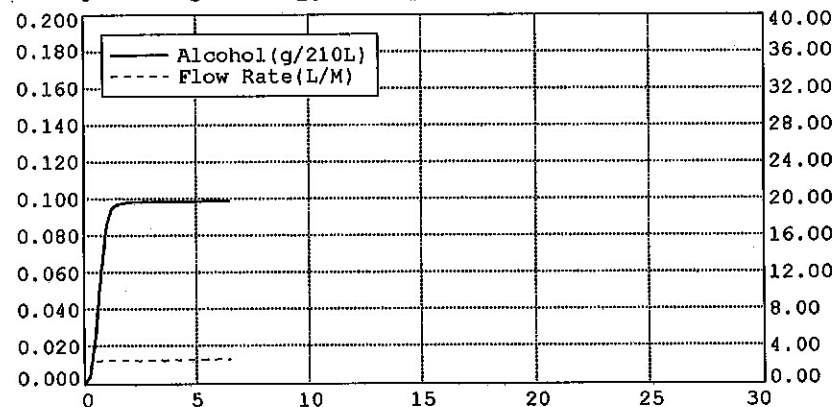
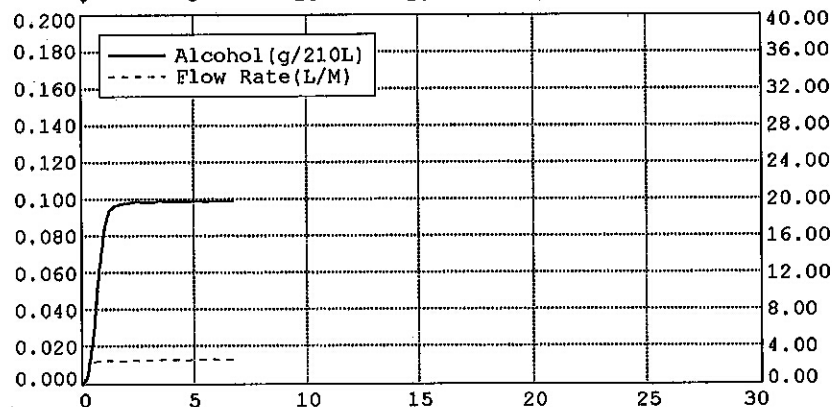
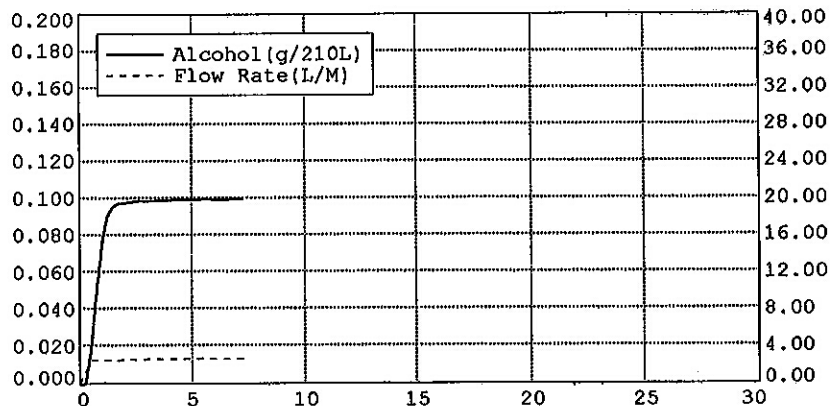
Date: 03/18/2011
Time: 14:00:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.97: 0.100
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:01
INTERNAL STANDARD	VERIFIED	14:01
EXTERNAL STANDARD	0.100	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.100	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.100	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.100	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.100	14:06
BLANK TEST	0.000	14:07

Average = 0.1000
Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100376

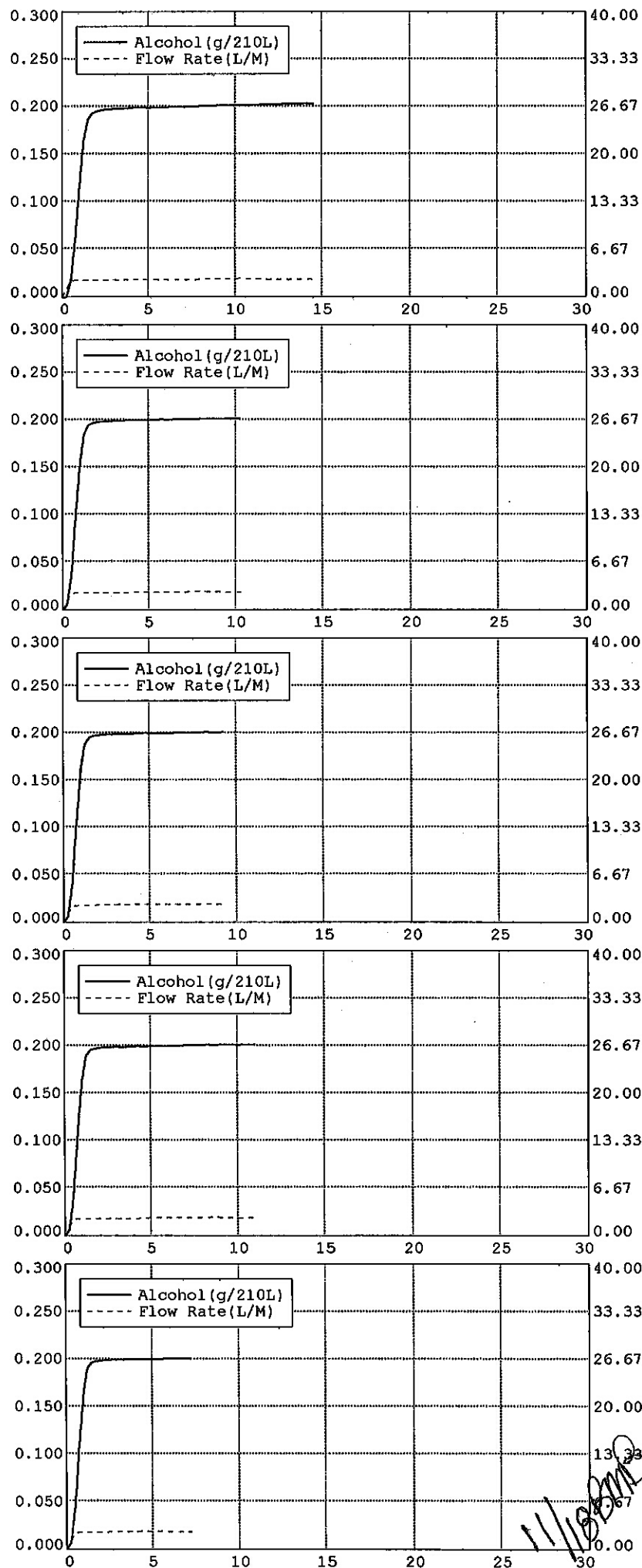
Date: 03/18/2011
Time: 14:21:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.95: 0.200
LOT #: 05611200A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:23
INTERNAL STANDARD	VERIFIED	14:23
EXTERNAL STANDARD	0.204	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.202	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.201	14:26
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.202	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.200	14:28
BLANK TEST	0.000	14:29

Average = 0.2018
Std Dev = 0.0015



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100376

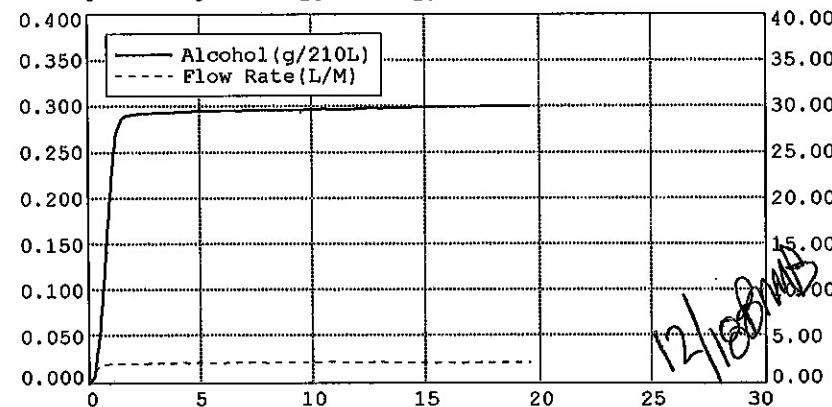
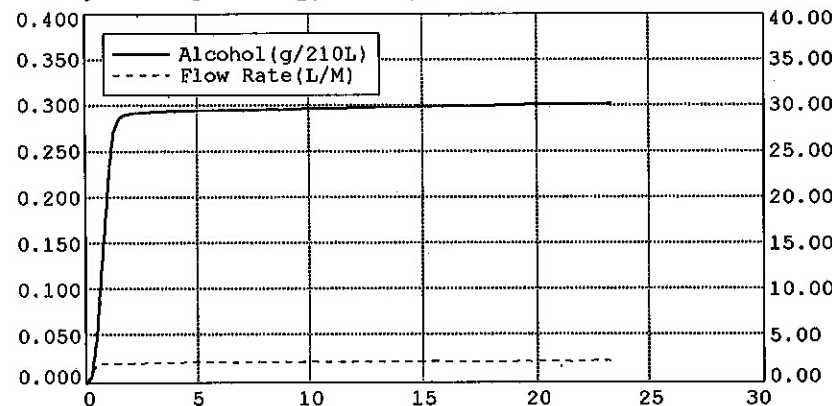
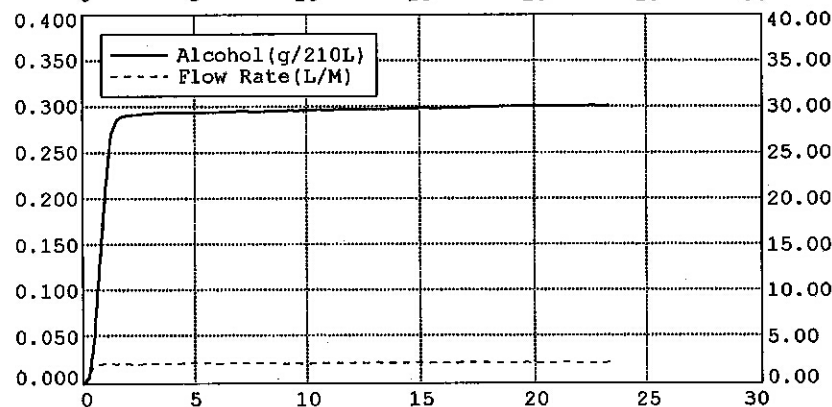
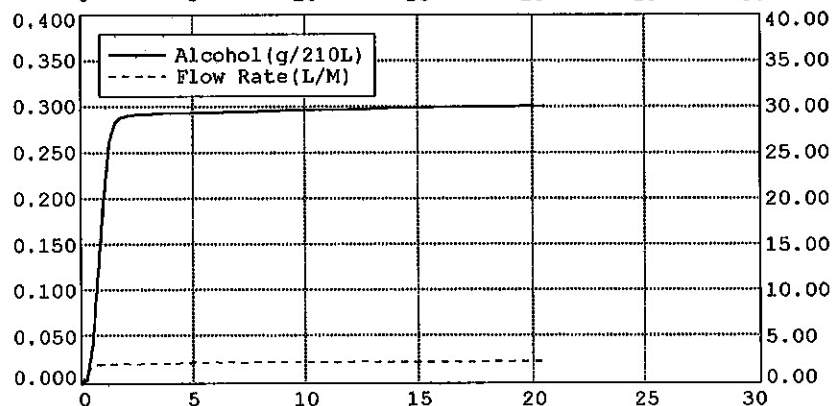
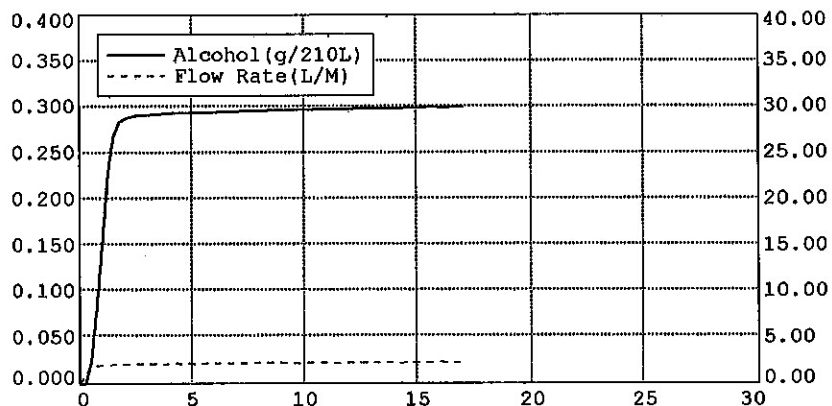
Date: 03/18/2011
Time: 14:30:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.96; 0.300
LOT #: 15210300A3
EXPIRATION: 07/01/2012

BLANK TEST	0.000	14:31
INTERNAL STANDARD	VERIFIED	14:32
EXTERNAL STANDARD	0.299	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.301	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.302	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.302	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.301	14:38
BLANK TEST	0.000	14:40

Average = 0.3010
Std Dev = 0.0012

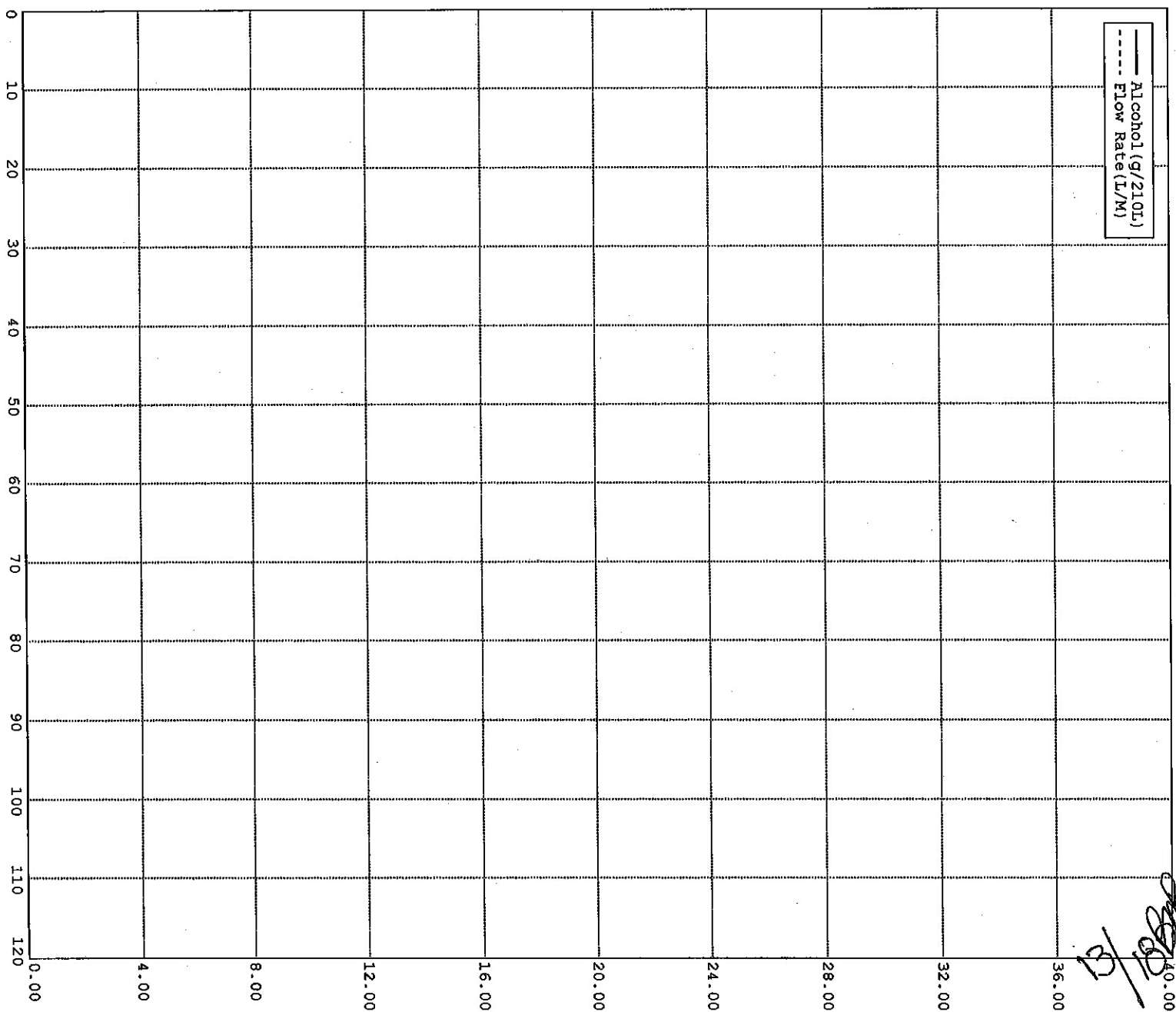


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100376Date: 03/21/2011
Time: 08:52:23SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INCOMPLETE X XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.58: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	08:54
BLANK TEST	0.000	08:54
INTERNAL STANDARD	VERIFIED	08:54
EXTERNAL STANDARD	0.079	08:54
BLANK TEST	0.000	08:55
SUBJECT SAMPLE	INCOMPLETE	08:57

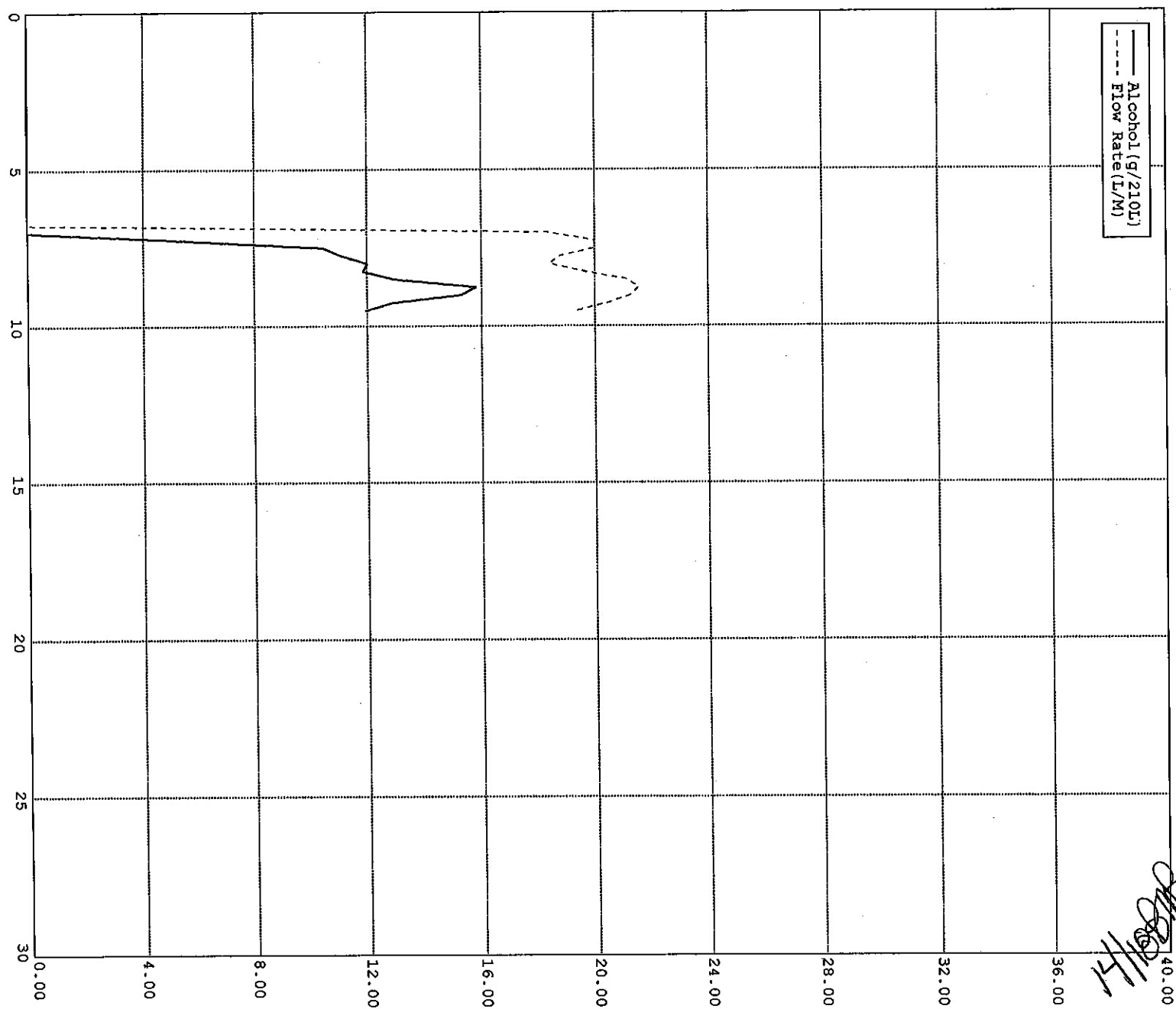
BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376Date: 03/21/2011
Time: 09:01:41SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INVALID XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.59: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012DIAGNOSTIC CHECK
BLANK TEST
INTERNAL STANDARD
EXTERNAL STANDARD
BLANK TEST
SUBJECT SAMPLEPASSED 09:02
0.000 09:02
VERIFIED 09:02
0.080 09:03
0.000 09:04
Invalid 09:04

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SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmc: 100376

Date: 03/21/2011
 Time: 09:05:58

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

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 29.58: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	09:07
BLANK TEST	0.000	09:07
INTERNAL STANDARD	VERIFIED	09:07
EXTERNAL STANDARD	0.079	09:07
BLANK TEST	0.000	09:08
SUBJECT SAMPLE	INTERFERENCE	09:09

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SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100376

Date: 03/21/2011
 Time: 09:11:05

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

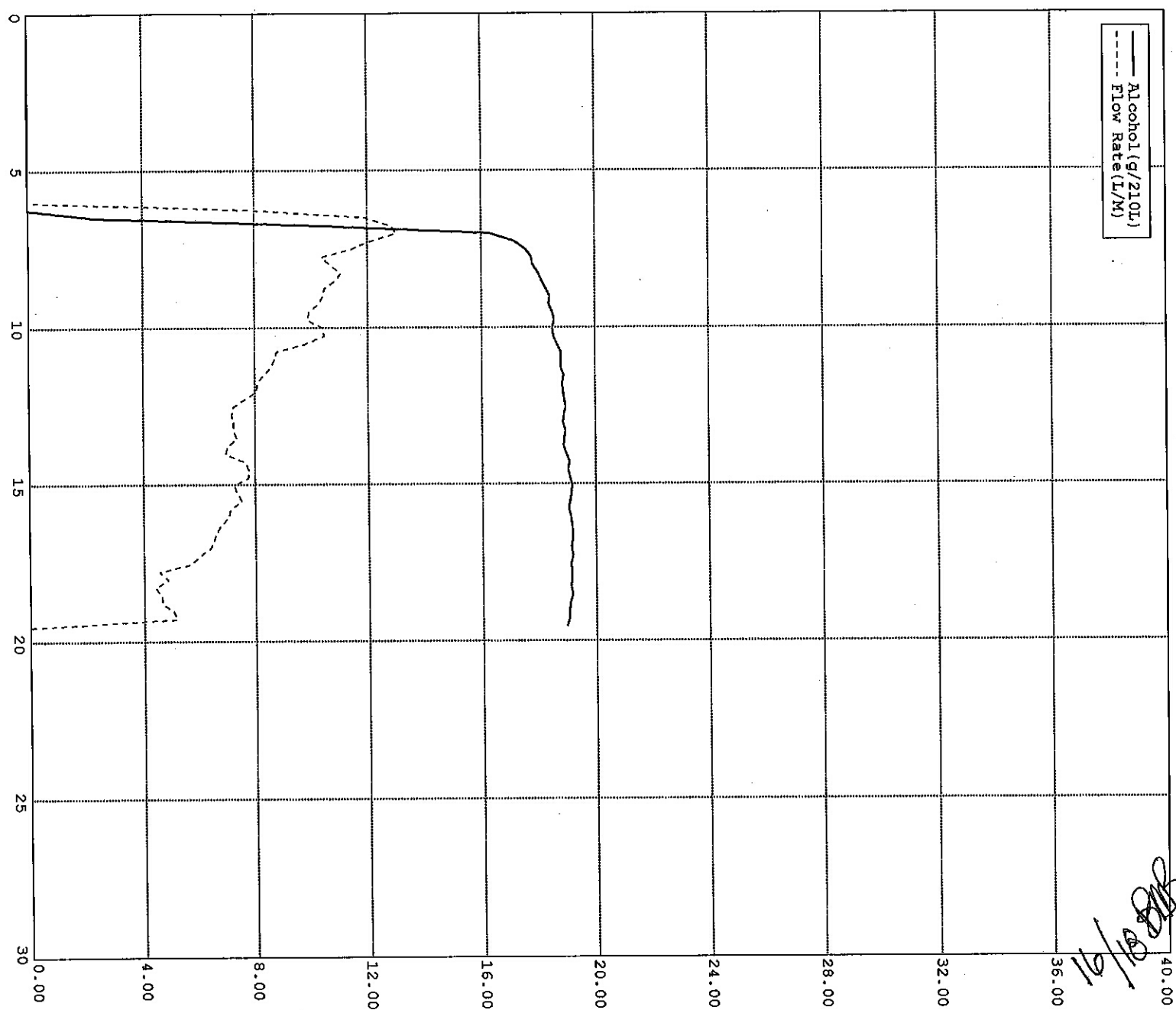
OPERATOR NAME:
 ETHANOL AND ISOPROPANOL
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.58: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	09:12
BLANK TEST	0.000	09:12
INTERNAL STANDARD	VERIFIED	09:12
EXTERNAL STANDARD	0.079	09:12
BLANK TEST	0.000	09:13
SUBJECT SAMPLE	INTERFERENCE	09:14

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 03/21/2011

Time: 09:16:04

SUBJECT NAME:

TEST TEST
LICENSE #: XXXXOPERATOR NAME:
RADIO Q INTERFERE
OPERATOR'S #: XXXX

DEPT/AGENCY:

XXXX

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.58: 0.079

LOT #: 33609080A1

EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK

BLANK TEST

PASSED 09:17

0.000 09:17

INTERNAL STANDARD

VERIFIED 09:17

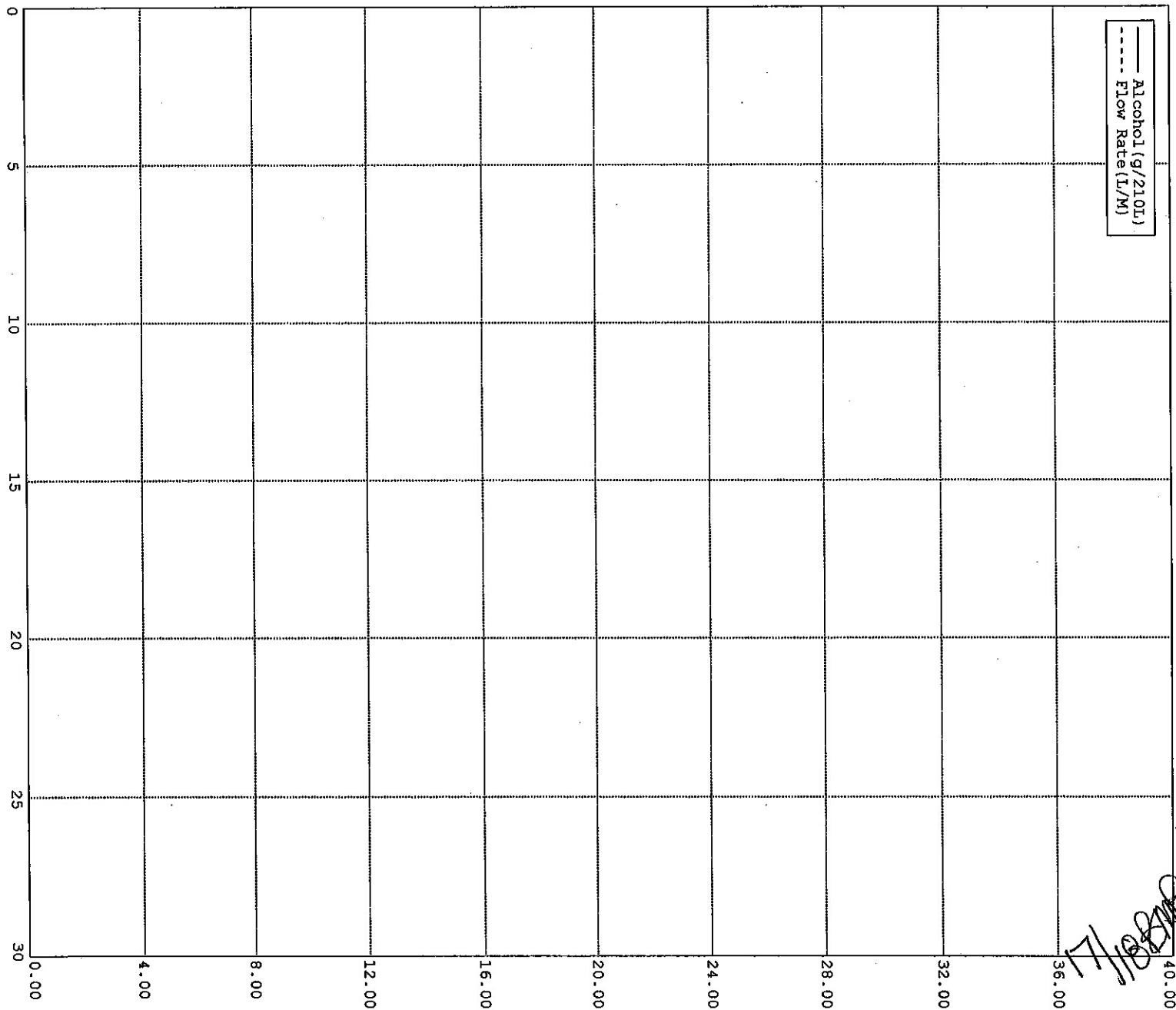
EXTERNAL STANDARD

0.079 09:17

BLANK TEST

0.000 09:18

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 03/21/2011
Time: 09:29:42

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

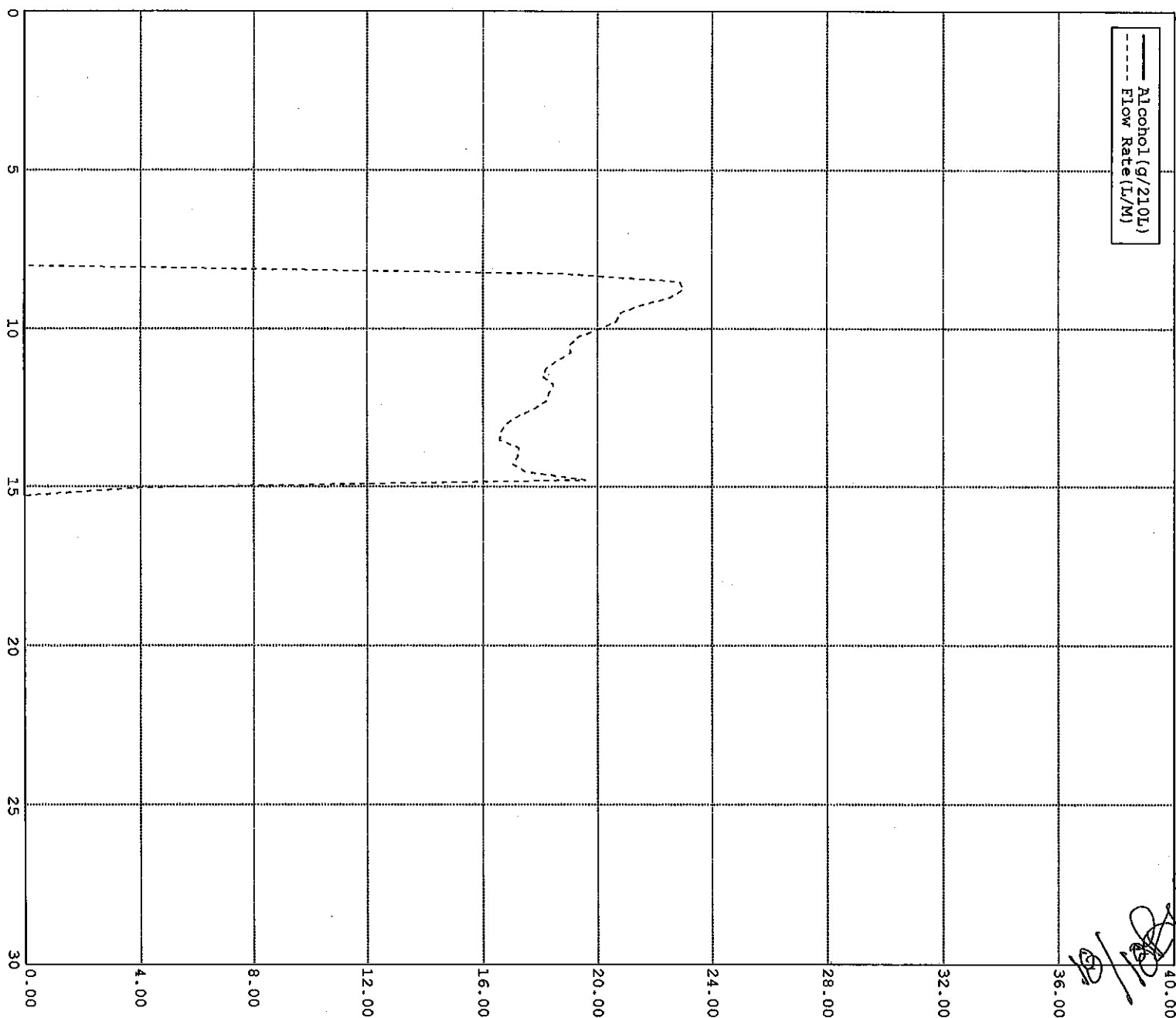
OPERATOR NAME:
BRANDI M BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
NON-DRINKING SUBJECT TEST
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.58: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	09:30
BLANK TEST	0.000	09:30
INTERNAL STANDARD	VERIFIED	09:30
EXTERNAL STANDARD	0.080	09:31
BLANK TEST	0.000	09:32
SUBJECT SAMPLE	0.000	09:32
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.080	09:33
BLANK TEST	0.000	09:34

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03/21/2011

Final page for report

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