

	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 # 100364Analyst Brandi BarnettDate 4/14/11

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 1400 mL ☒

5. Dry Gas Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 15210020A1 Exp 07/01/2012ii. 0.040g/210L Mnf ILMO Lot 15210040A2 Exp 07/01/12iii. 0.080g/210L Mnf ILMO Lot 02511080A1 Exp 02/01/2013iv. 0.100g/210L Mnf ILMO Lot 05611120A2 Exp 03/01/2012 ²⁰¹³v. 0.200g/210L Mnf ILMO Lot 07411200A2 Exp 03/01/2013 ^{4/14/11}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 12/2/20111. Simulator Calibration Date 10/18/2010 SN DR6267ii. Isopropanol - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/20111. Simulator Calibration Date 8/4/2010 SN SD1202d. RFI ☒7. Calibrate Stylus ☒8. Verify card reader is functional ☒9. Upload ☒10. Reset Options ☒

11. Non-Drinking Subject Test (attached)

Page 1 of 1

1/18/11 BM

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100364

Date: 04/14/2011
Time: 06:37:24

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 48.0°C	PASSED

PUMP INFO

Flow Rate = 5.116 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: 100364

Date: 04/14/2011

Time: 6:47 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 47.9°C

Current Barometer 29.8 in

Volume (Ltr) 1.56

Settings

Lamp: 1.94 V

Bias: 78 V

Cooler: 1.63 V

Chopper: 538 Hz

Voltages (V)

Flow: 1.03 V

Detector: 0.483 V

3/18/11 B

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100364

Date: 04/12/2011
Time: 13:44:36

SUPERVISOR NAME:
BRANDI M BARNETT
CERTIFICATE #: 7038

LOT #: GUTH
BOTTLE #: 10260
EXPIRATION: 10/25/2012

Ca = 0.1000
CAL = 0.969850 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0054 0.0010 <= b2 < 0.0100
b3 = 0.0004 0.0000 <= b3 < 0.0040
Xq = 0.0957 0.0500 <= Xq < 0.2000
a21 = 1.171755 1.050 <= a21 < 1.300
a31 = 0.591985 0.300 <= a31 < 0.800

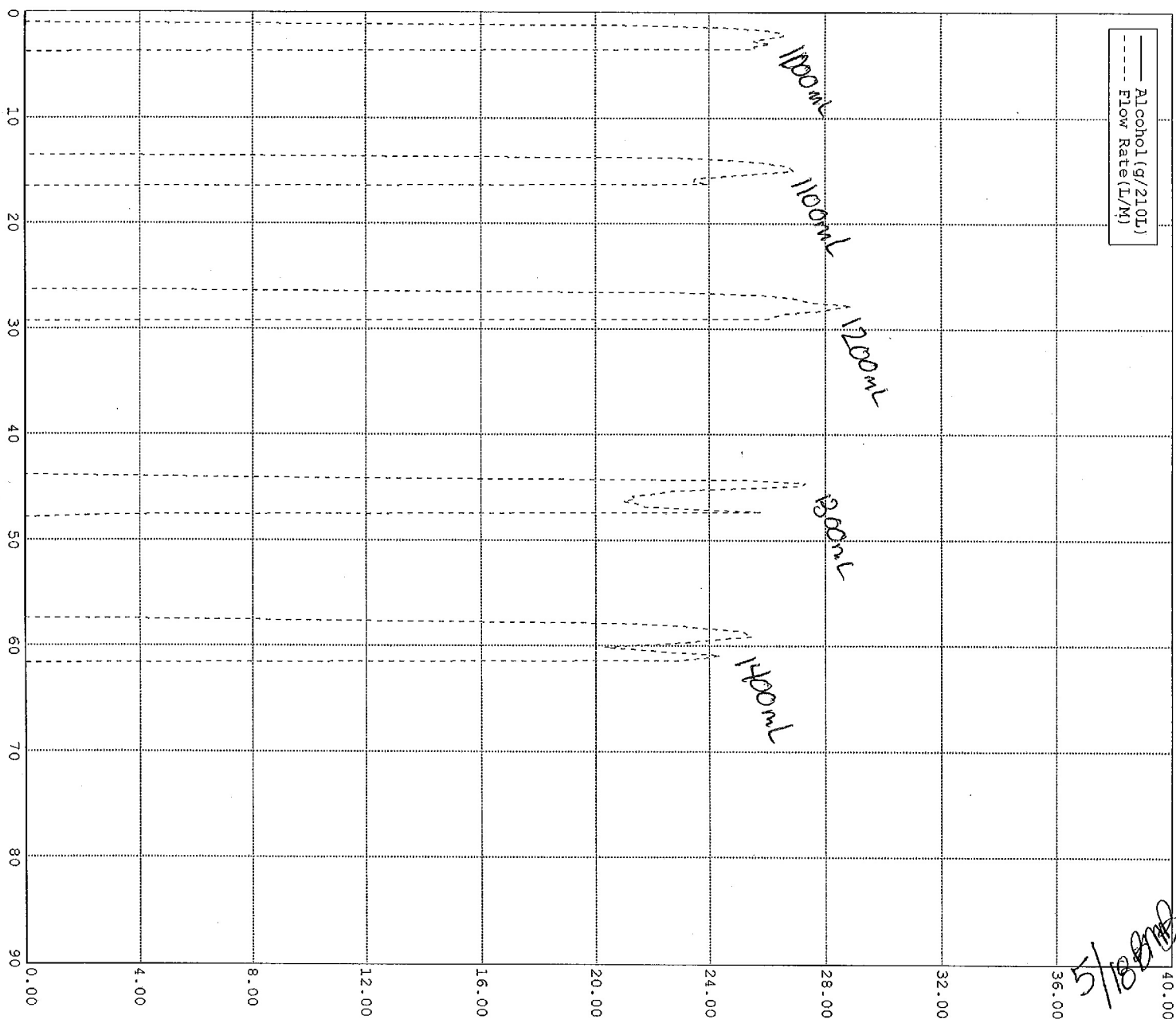
4/14/2011

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100364Date: 04/14/2011
Time: 07:00:21SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.81: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	07:01
BLANK TEST	0.000	07:01
INTERNAL STANDARD	VERIFIED	07:01
EXTERNAL STANDARD	0.078	07:02
BLANK TEST	0.000	07:02
SUBJECT SAMPLE	0.000	07:04
BLANK TEST	0.000	07:04
EXTERNAL STANDARD	0.079	07:05
BLANK TEST	0.000	07:06

BMB



LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dnt: 100364

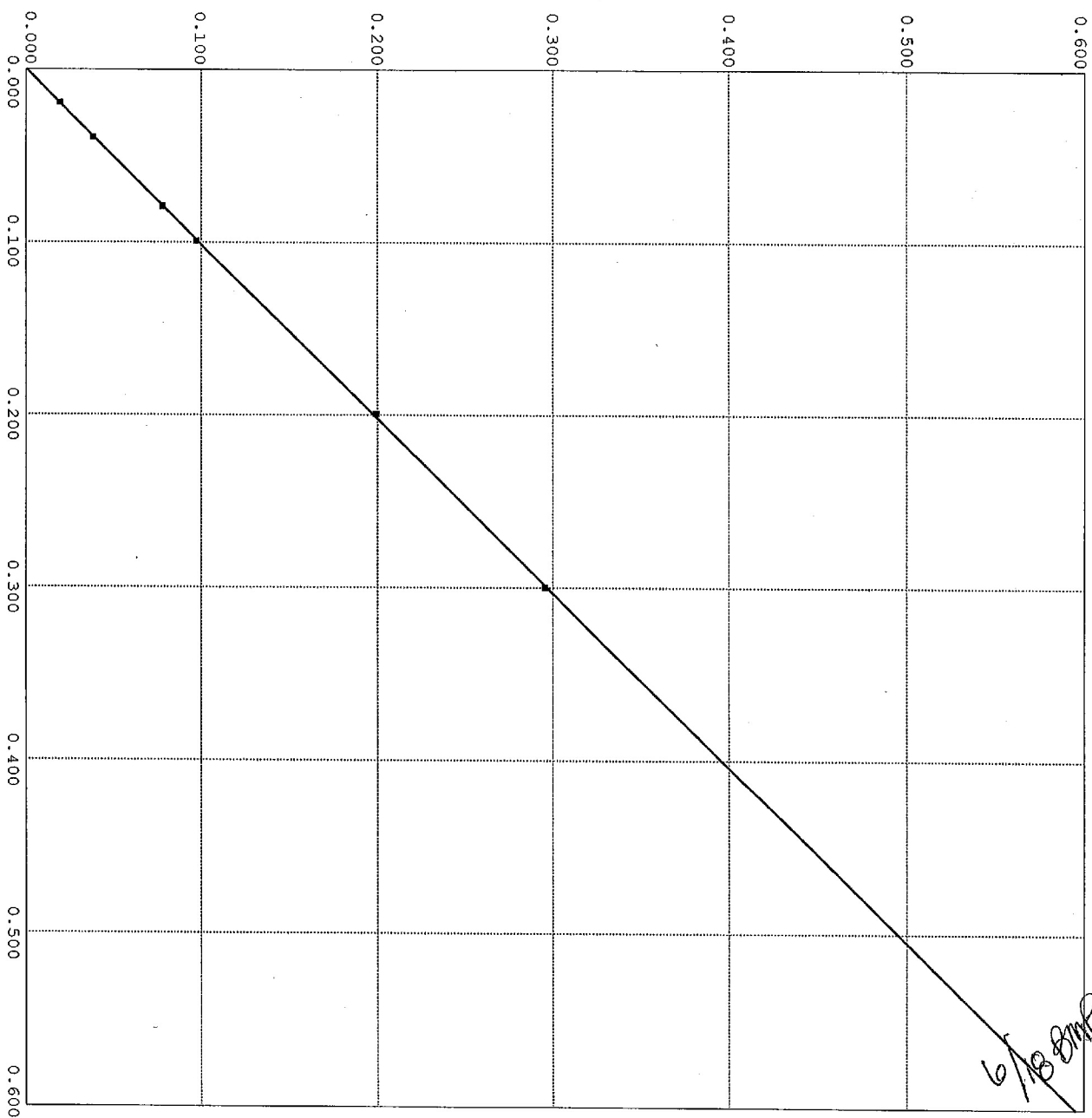
Date: 04/14/2011
Time: 07:29:48

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0004
0.039	0.0390	0.0000
0.079	0.0788	0.0004
0.099	0.0982	0.0004
0.199	0.2000	0.0000
0.299	0.2962	0.0015

SLOPE = 0.990992
 R^2 = 0.999947

BMB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100364

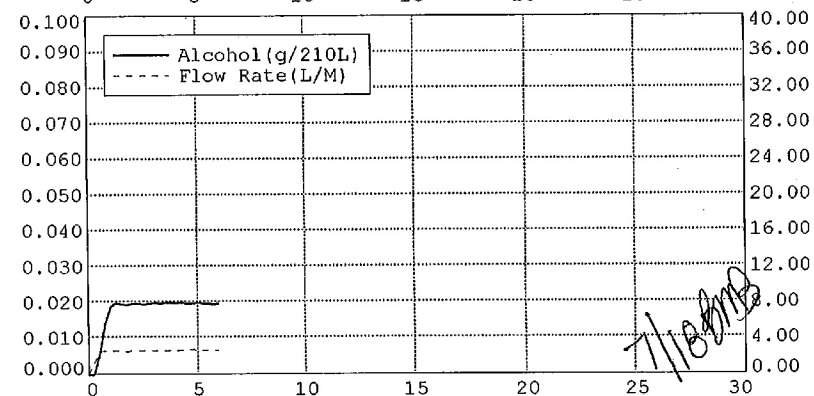
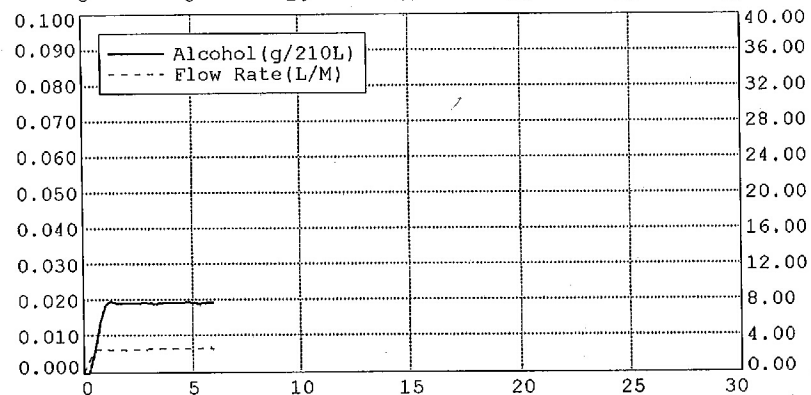
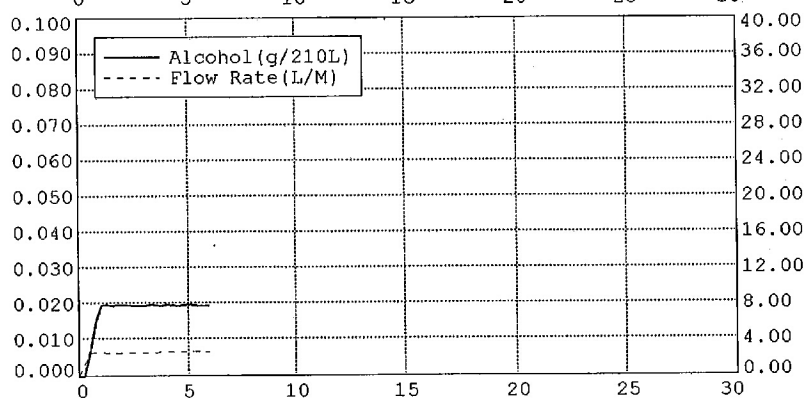
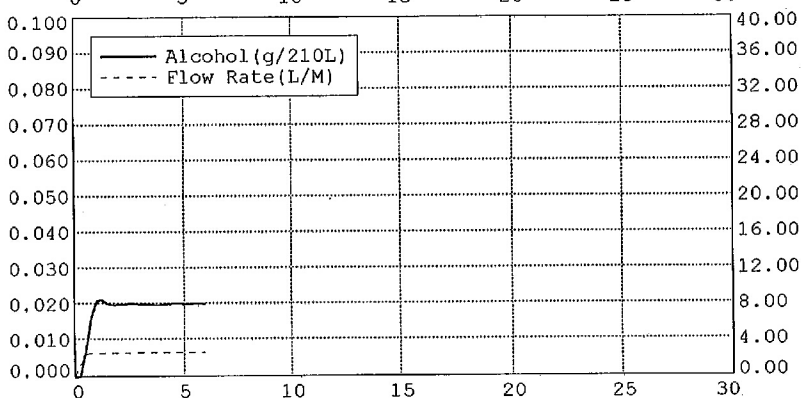
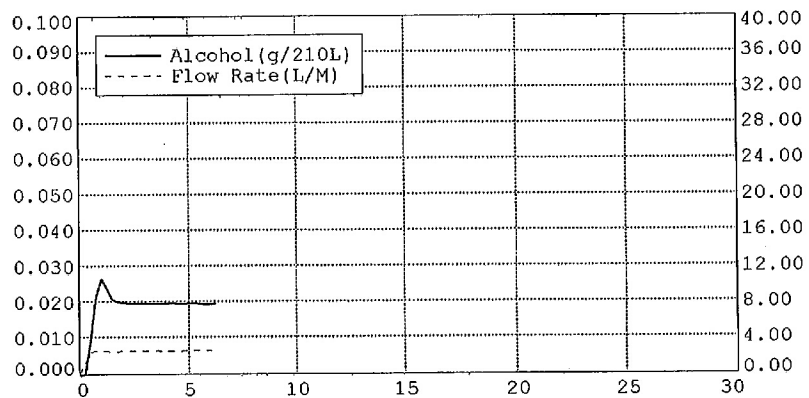
Date: 04/14/2011
Time: 07:29:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.82: 0.019
LOT #: 15210020A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	07:30
INTERNAL STANDARD	VERIFIED	07:30
EXTERNAL STANDARD	0.020	07:31
BLANK TEST	0.000	07:32
EXTERNAL STANDARD	0.021	07:32
BLANK TEST	0.000	07:33
EXTERNAL STANDARD	0.020	07:33
BLANK TEST	0.000	07:34
EXTERNAL STANDARD	0.020	07:34
BLANK TEST	0.000	07:35
EXTERNAL STANDARD	0.020	07:35
BLANK TEST	0.000	07:36

Average = 0.0202
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100364

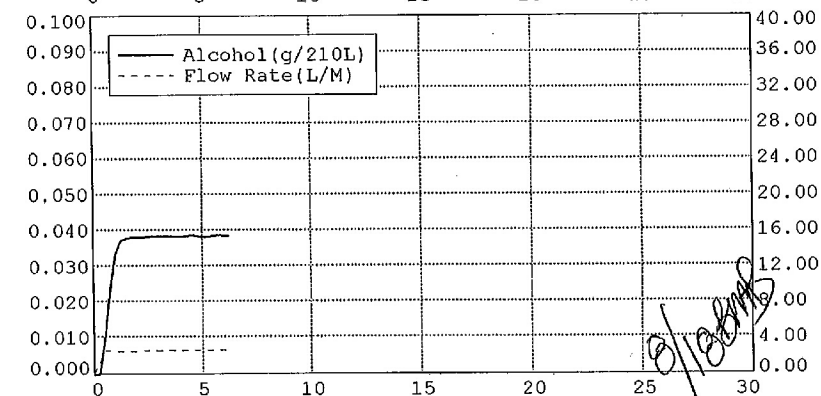
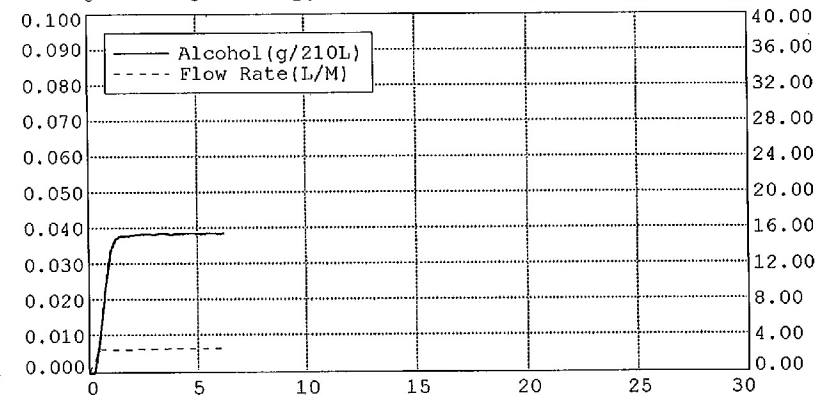
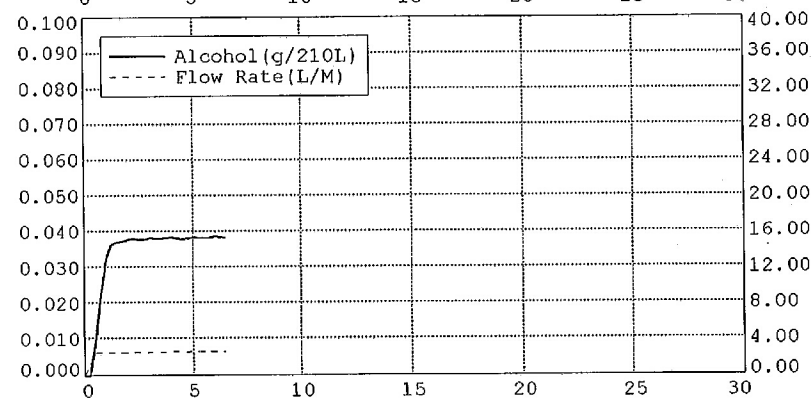
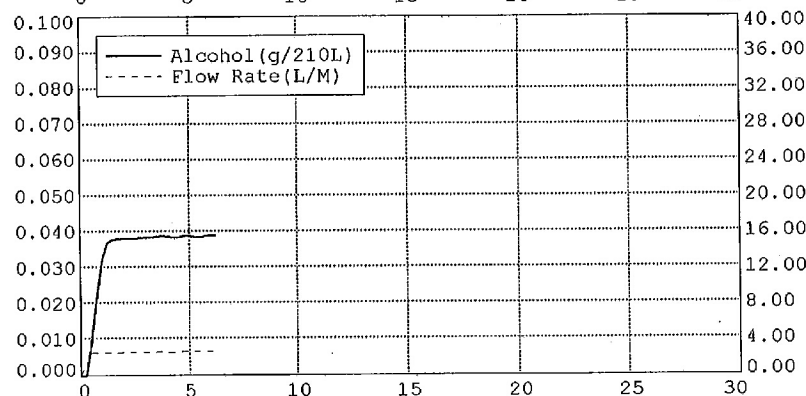
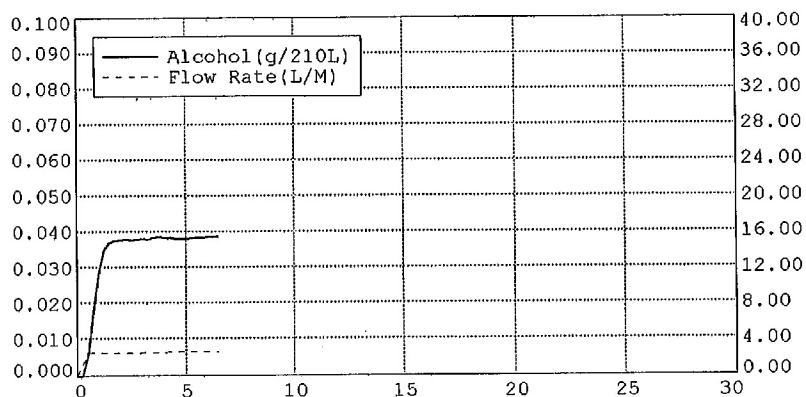
Date: 04/14/2011
Time: 07:40:24

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.82: 0.039
LOT #: 15210040A2
EXPIRATION: 07/01/2012

BLANK TEST	0.000	07:41
INTERNAL STANDARD	VERIFIED	07:41
EXTERNAL STANDARD	0.039	07:41
BLANK TEST	0.000	07:42
EXTERNAL STANDARD	0.039	07:43
BLANK TEST	0.000	07:43
EXTERNAL STANDARD	0.039	07:44
BLANK TEST	0.000	07:45
EXTERNAL STANDARD	0.039	07:45
BLANK TEST	0.000	07:46
EXTERNAL STANDARD	0.039	07:46
BLANK TEST	0.000	07:47

Average = 0.0390
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100364

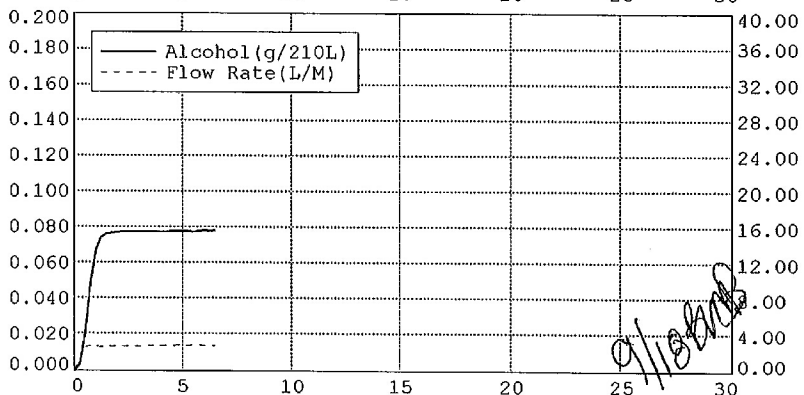
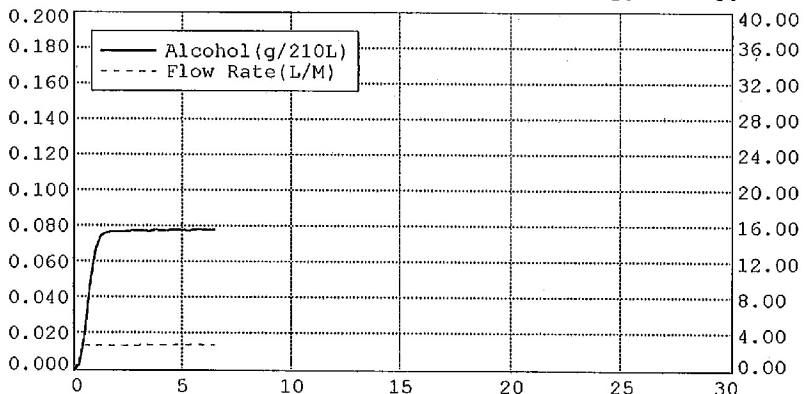
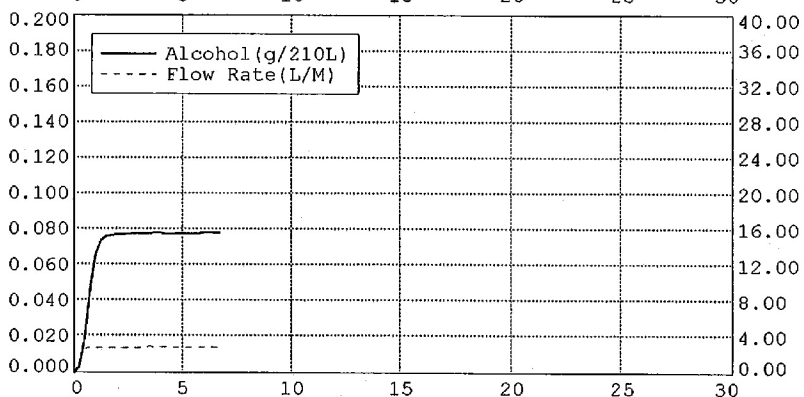
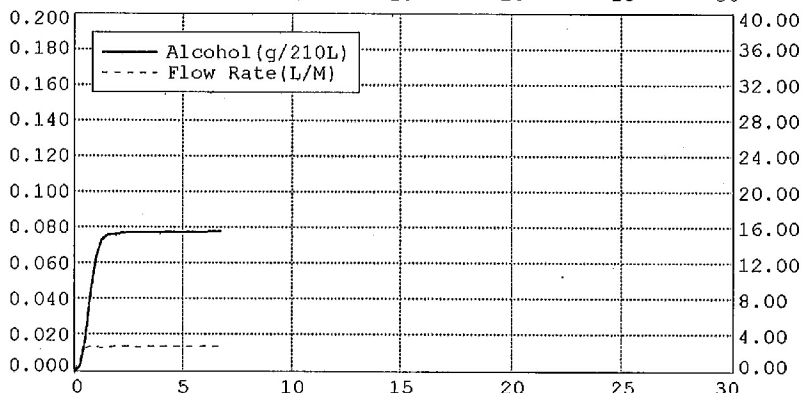
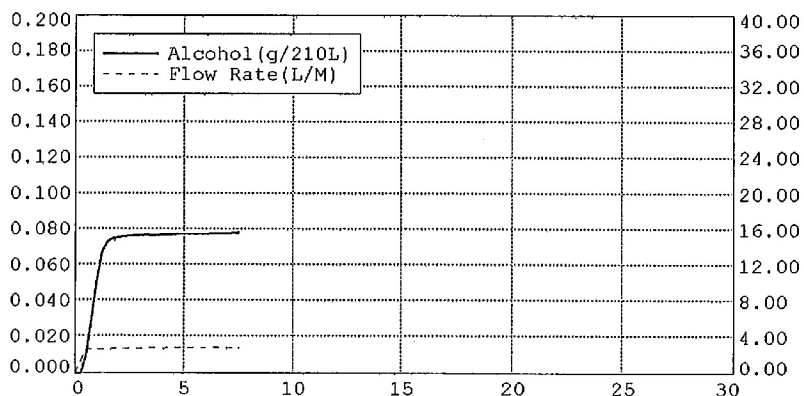
Date: 04/14/2011
Time: 07:53:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.82: 0.079
LOT #: 02511080A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	07:54
INTERNAL STANDARD	VERIFIED	07:54
EXTERNAL STANDARD	0.078	07:55
BLANK TEST	0.000	07:56
EXTERNAL STANDARD	0.079	07:56
BLANK TEST	0.000	07:57
EXTERNAL STANDARD	0.079	07:57
BLANK TEST	0.000	07:58
EXTERNAL STANDARD	0.079	07:58
BLANK TEST	0.000	07:59
EXTERNAL STANDARD	0.079	07:59
BLANK TEST	0.000	08:00

Average = 0.0788
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100364

Date: 04/14/2011
Time: 08:08:52

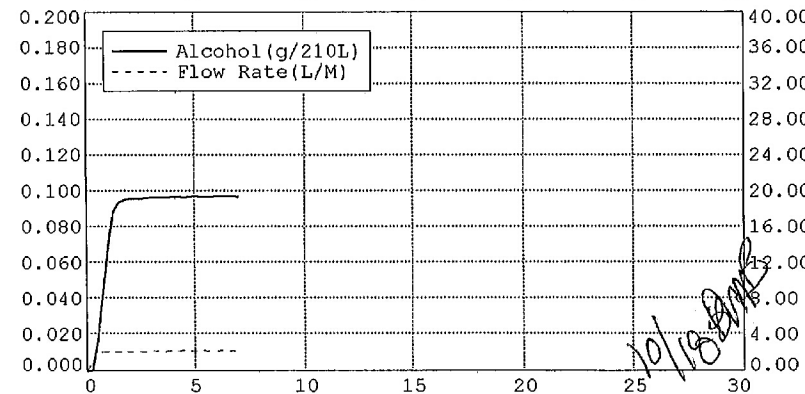
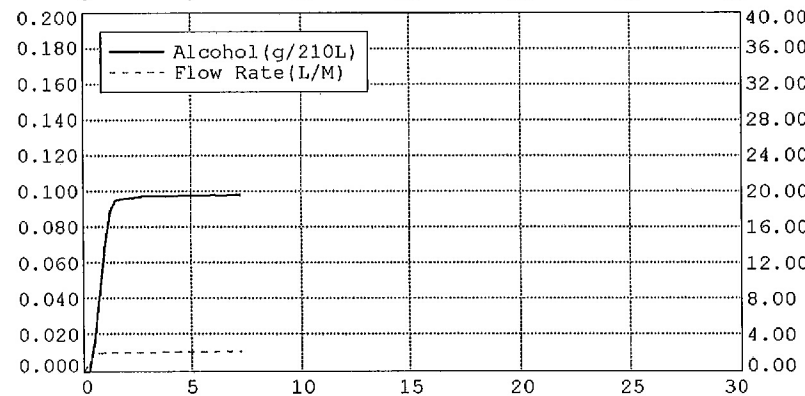
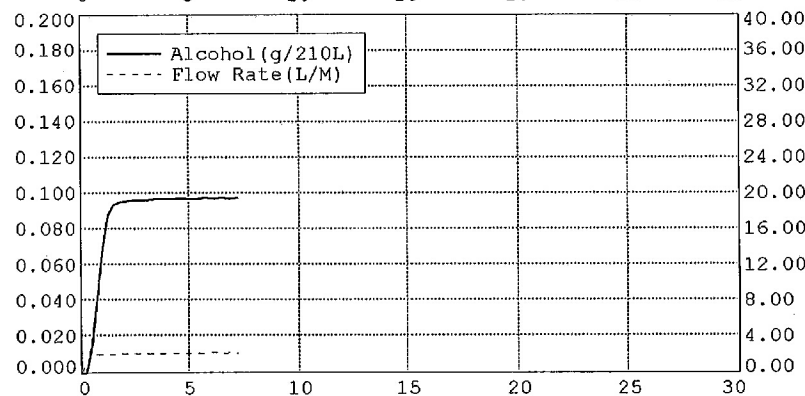
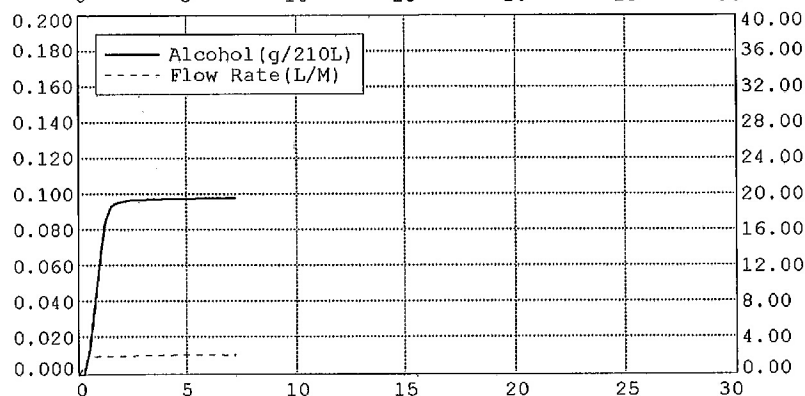
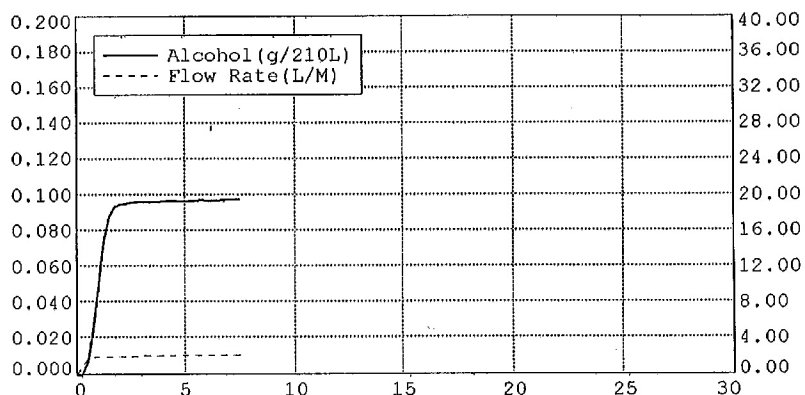
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.82: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2012 *emb*

2013 4/14/11

BLANK TEST	0.000	08:09
INTERNAL STANDARD	VERIFIED	08:10
EXTERNAL STANDARD	0.098	08:10
BLANK TEST	0.000	08:11
EXTERNAL STANDARD	0.098	08:11
BLANK TEST	0.000	08:12
EXTERNAL STANDARD	0.098	08:12
BLANK TEST	0.000	08:13
EXTERNAL STANDARD	0.099	08:13
BLANK TEST	0.000	08:14
EXTERNAL STANDARD	0.098	08:14
BLANK TEST	0.000	08:15

Average = 0.0982
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100364

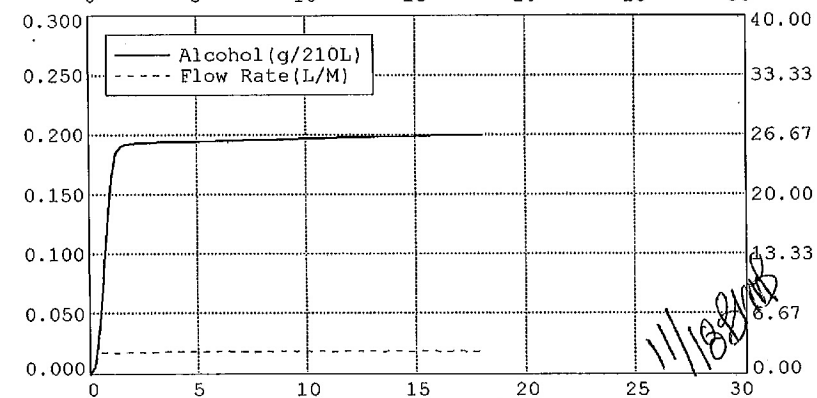
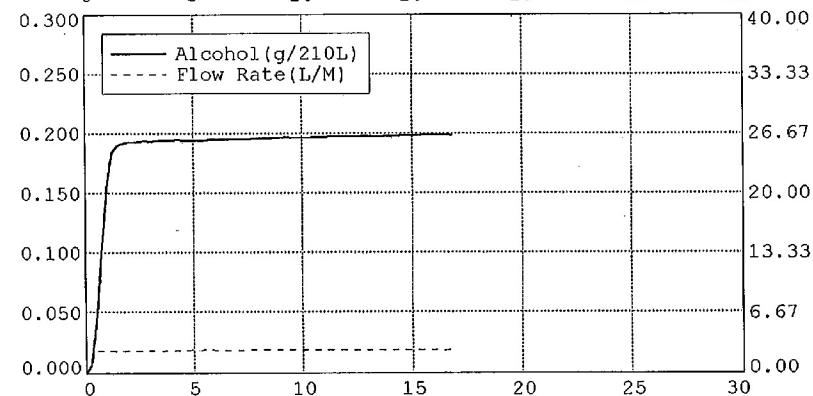
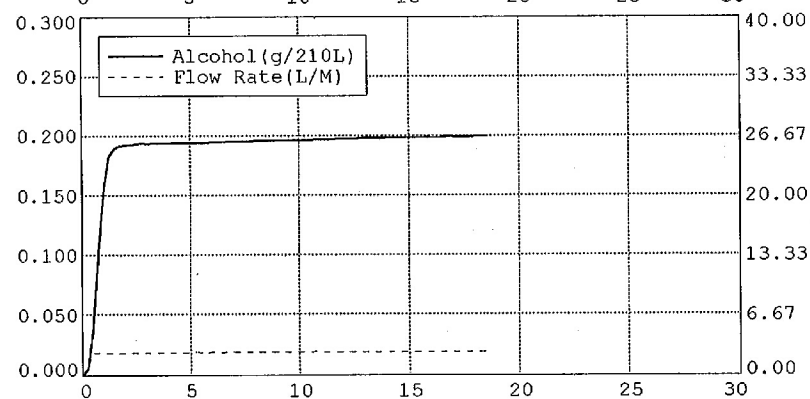
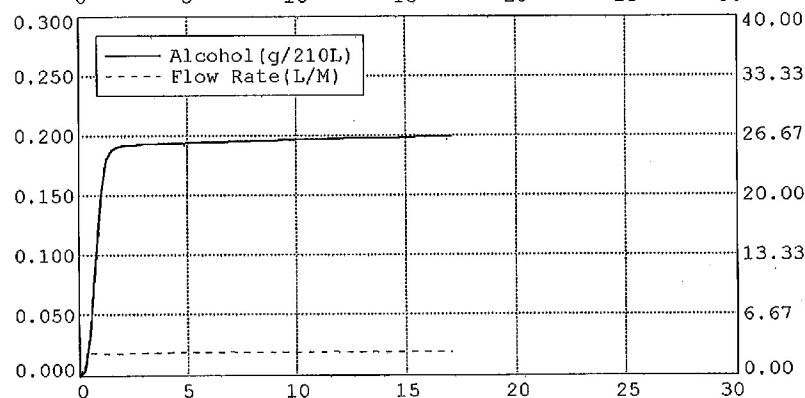
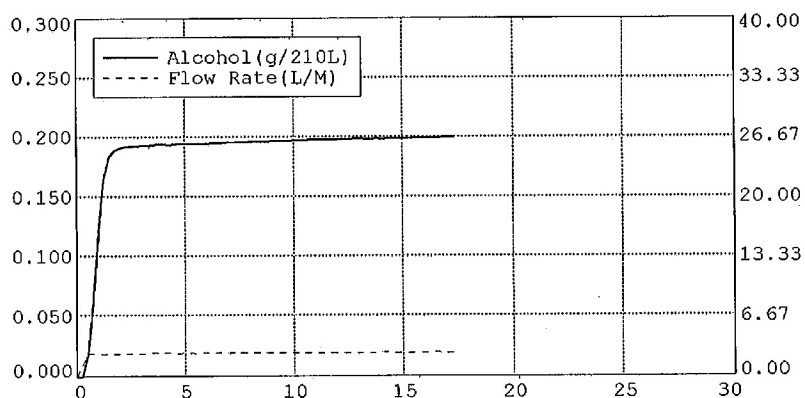
Date: 04/14/2011
Time: 08:18:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.84: 0.199
LOT #: 07411200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:21
INTERNAL STANDARD	VERIFIED	08:21
EXTERNAL STANDARD	0.200	08:21
BLANK TEST	0.000	08:22
EXTERNAL STANDARD	0.200	08:23
BLANK TEST	0.000	08:24
EXTERNAL STANDARD	0.200	08:24
BLANK TEST	0.000	08:25
EXTERNAL STANDARD	0.200	08:26
BLANK TEST	0.000	08:27
EXTERNAL STANDARD	0.200	08:27
BLANK TEST	0.000	08:28

Average = 0.2000
Std Dev = 0.0000



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100364

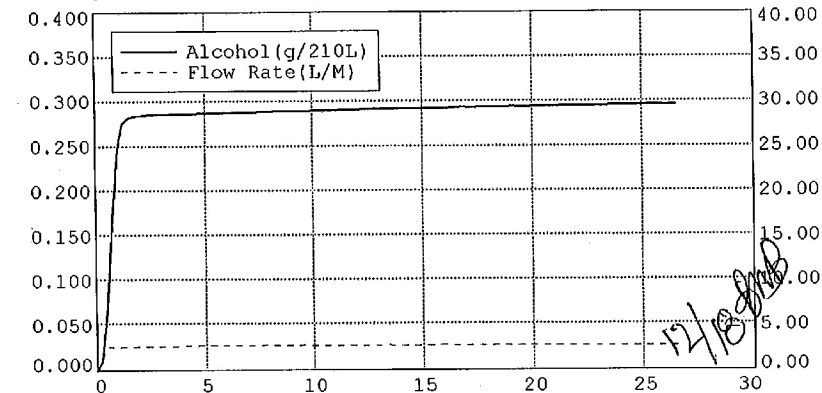
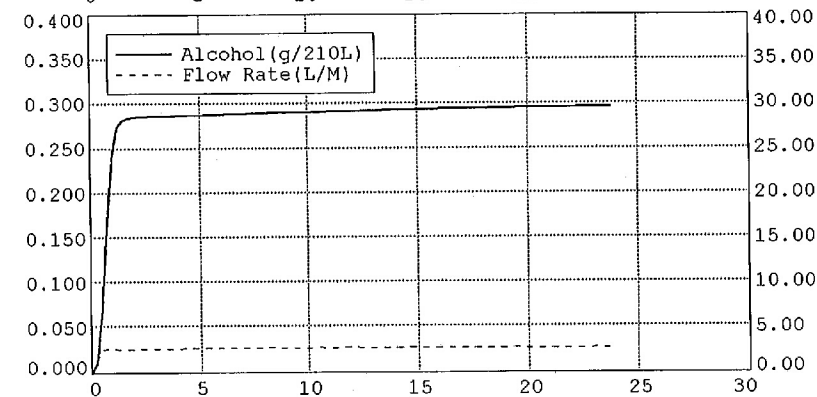
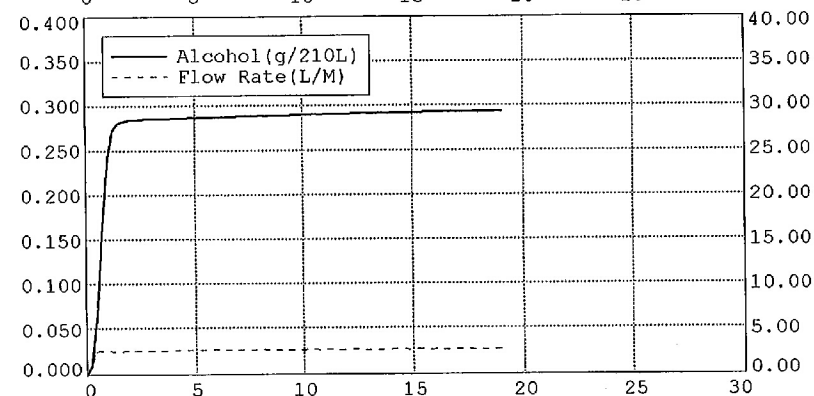
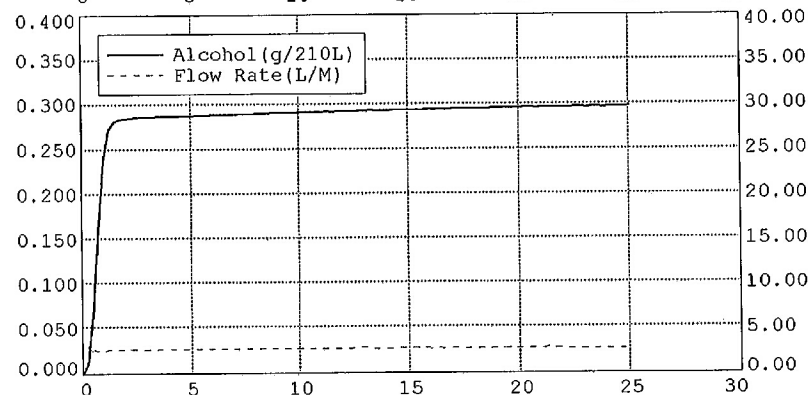
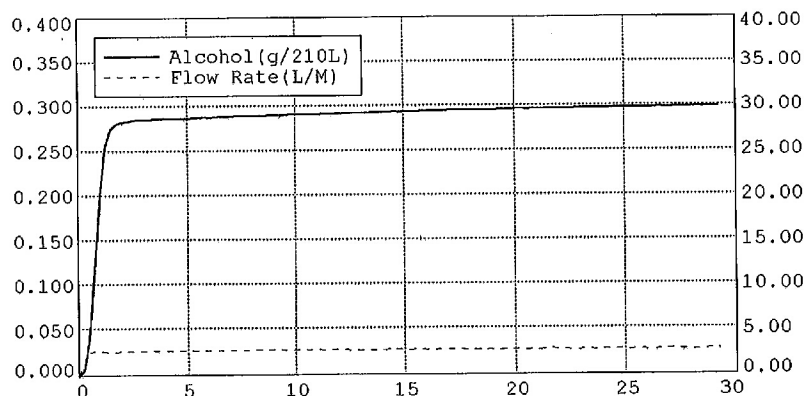
Date: 04/14/2011
Time: 08:30:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.84: 0.299
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:32
INTERNAL STANDARD	VERIFIED	08:32
EXTERNAL STANDARD	0.298	08:33
BLANK TEST	0.000	08:34
EXTERNAL STANDARD	0.297	08:35
BLANK TEST	0.000	08:36
EXTERNAL STANDARD	0.294	08:36
BLANK TEST	0.000	08:38
EXTERNAL STANDARD	0.296	08:38
BLANK TEST	0.000	08:39
EXTERNAL STANDARD	0.296	08:40
BLANK TEST	0.000	08:41

Average = 0.2962
Std Dev = 0.0015



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100364

Date: 04/14/2011
Time: 09:30:56

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

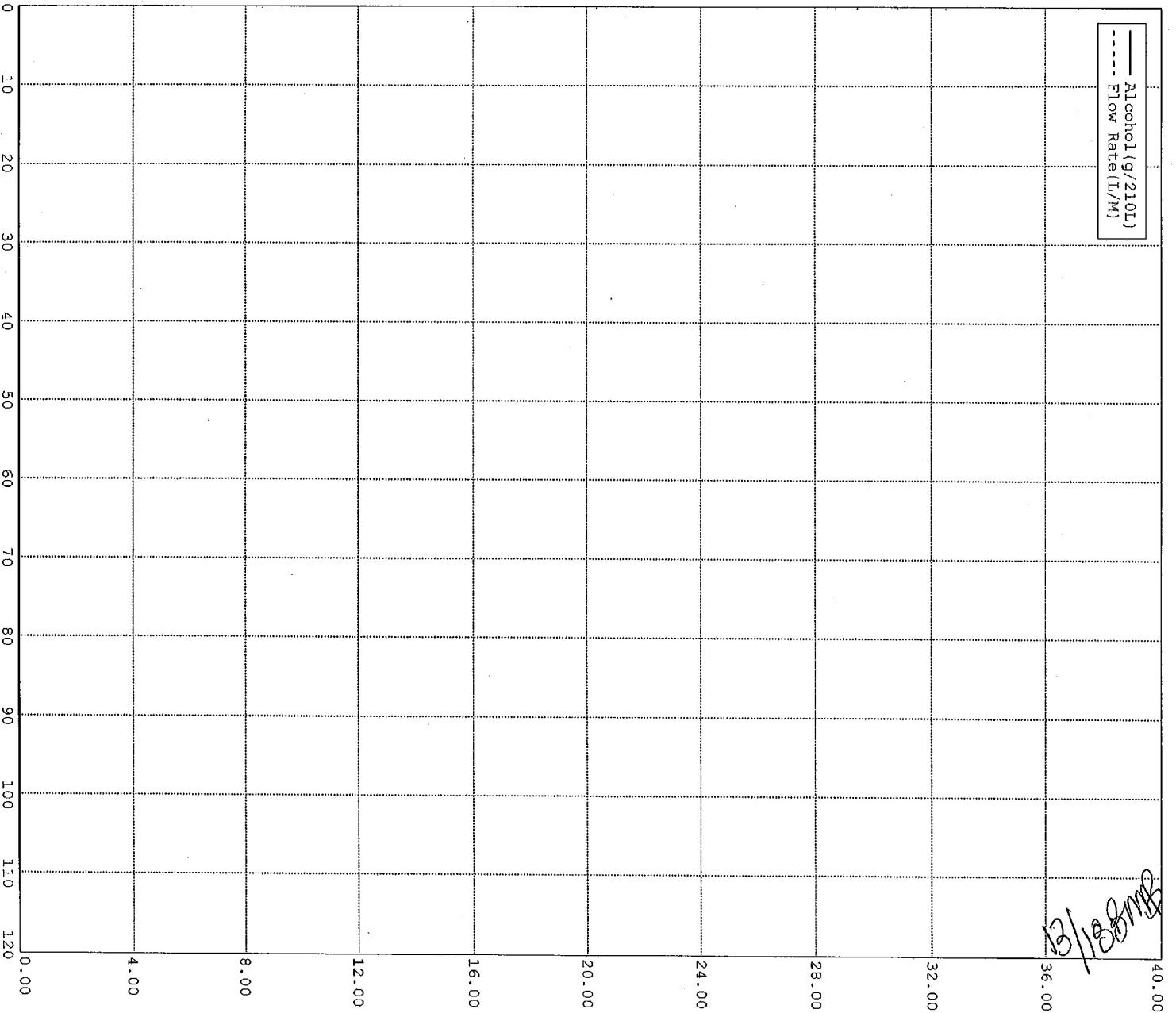
OPERATOR NAME:
XXXX XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.84: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	09:32
BLANK TEST	0.000	09:32
INTERNAL STANDARD	VERIFIED	09:32
EXTERNAL STANDARD	0.079	09:32
BLANK TEST	0.000	09:33
SUBJECT SAMPLE	INCOMPLETE	09:35

Brandi Barnett



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100364

Date: 04/14/2011
Time: 09:24:52

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

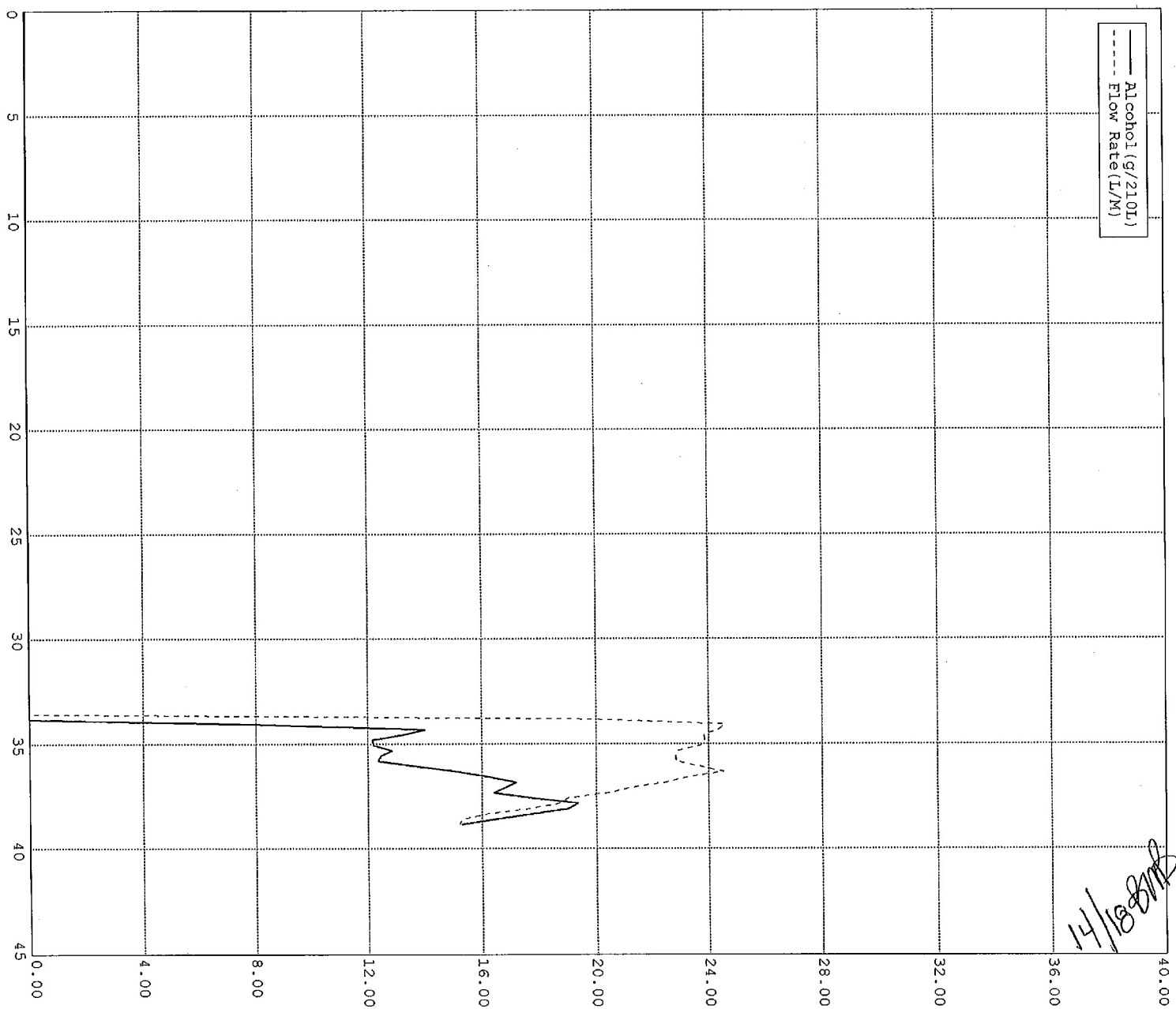
OPERATOR NAME:
INVALID XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.84: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 09:27
INTERNAL STANDARD	0.000 09:27
EXTERNAL STANDARD	VERIFIED 09:27
BLANK TEST	0.078 09:27
BLANK TEST	0.000 09:28
SUBJECT SAMPLE	Invalid 09:29

BNB

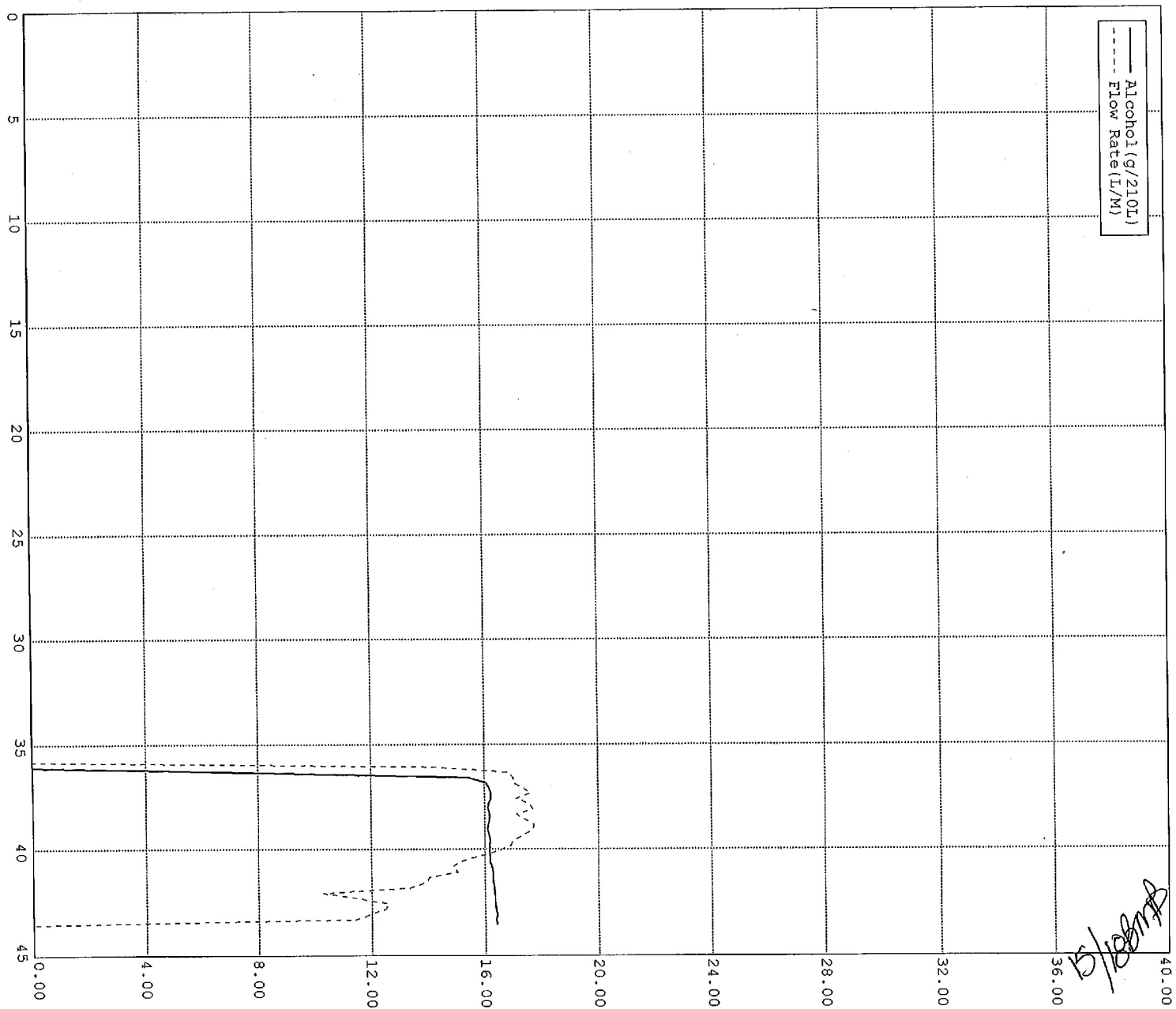


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100364Date: 04/14/2011
Time: 09:37:51SUBJECT NAME:
TEST TEST
LICENSE #: INTERFEREOPERATOR NAME:
ETHANOL AND ACETONE
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.84: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	09:38
BLANK TEST	0.000	09:38
INTERNAL STANDARD	VERIFIED	09:39
EXTERNAL STANDARD	0.078	09:39
BLANK TEST	0.000	09:40
SUBJECT SAMPLE	INTERFERENCE	09:41

BME

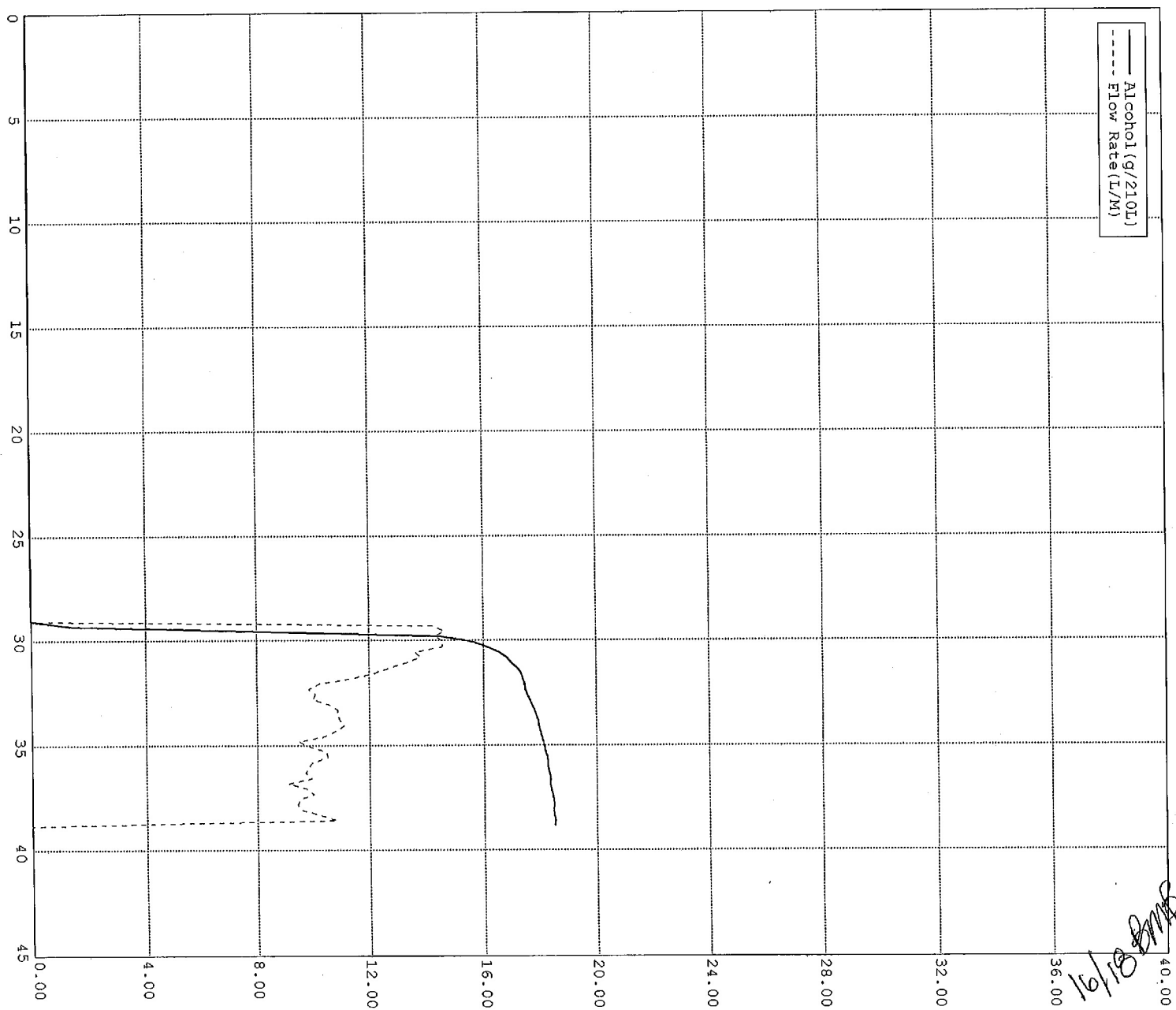


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100364Date: 04/14/2011
Time: 09:42:49SUBJECT NAME:
TEST TEST
LICENSE #: INTERFEREOPERATOR NAME:
ETHANOL AND ISOPROPANOL
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	09:43
BLANK TEST	0.000	09:43
INTERNAL STANDARD	VERIFIED	09:44
EXTERNAL STANDARD	0.079	09:44
BLANK TEST	0.000	09:45
SUBJECT SAMPLE	INTERFERENCE	09:45

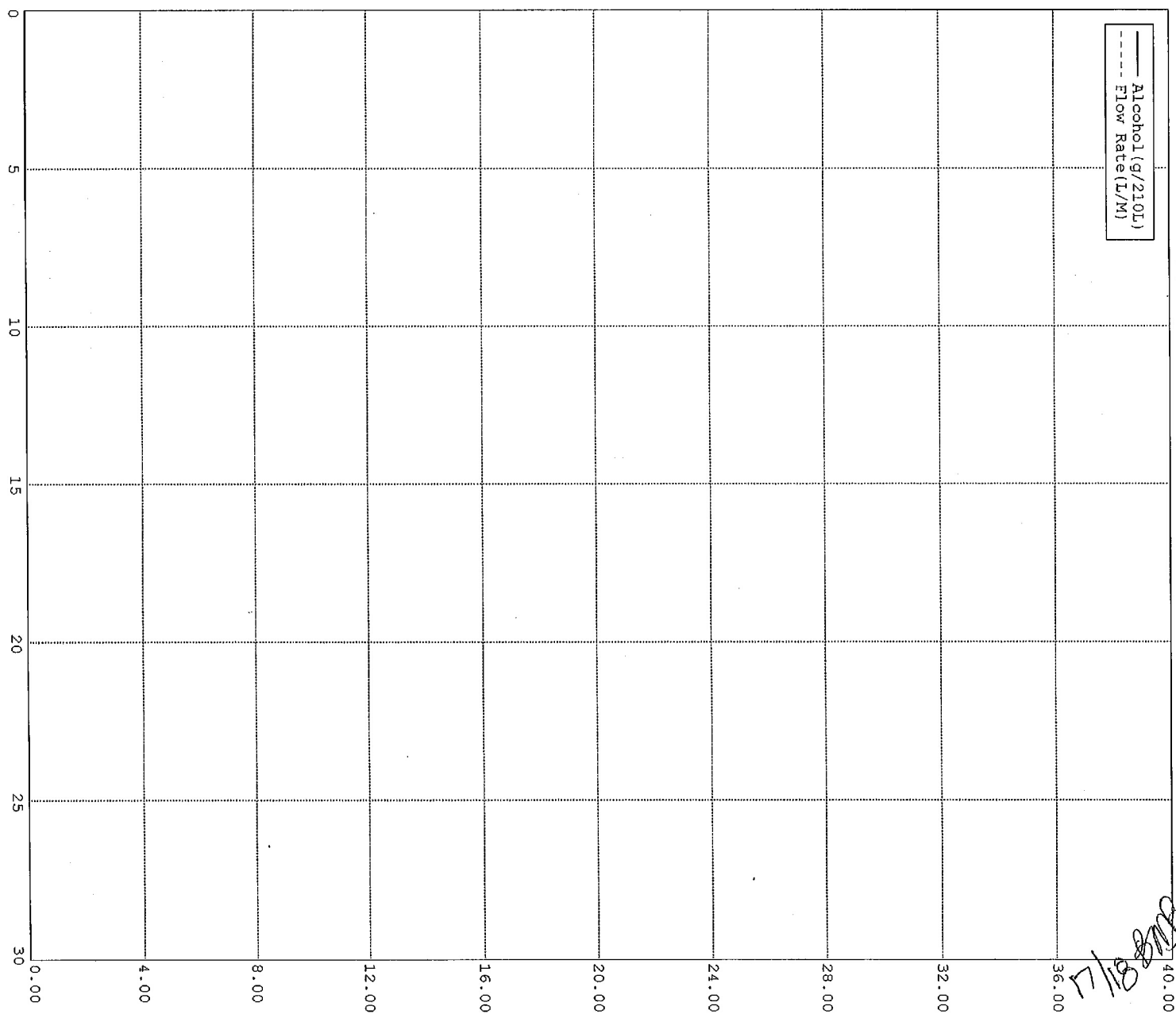
BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100364Date: 04/14/2011
Time: 08:46:35SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
RADIO INTERFERE
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.84: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012DIAGNOSTIC CHECK
BLANK TEST PASSED 08:48
INTERNAL STANDARD VERIFIED 08:48
EXTERNAL STANDARD 0.079 08:48
BLANK TEST 0.000 08:49

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100364

Date: 04/14/2011
 Time: 10:04:31

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

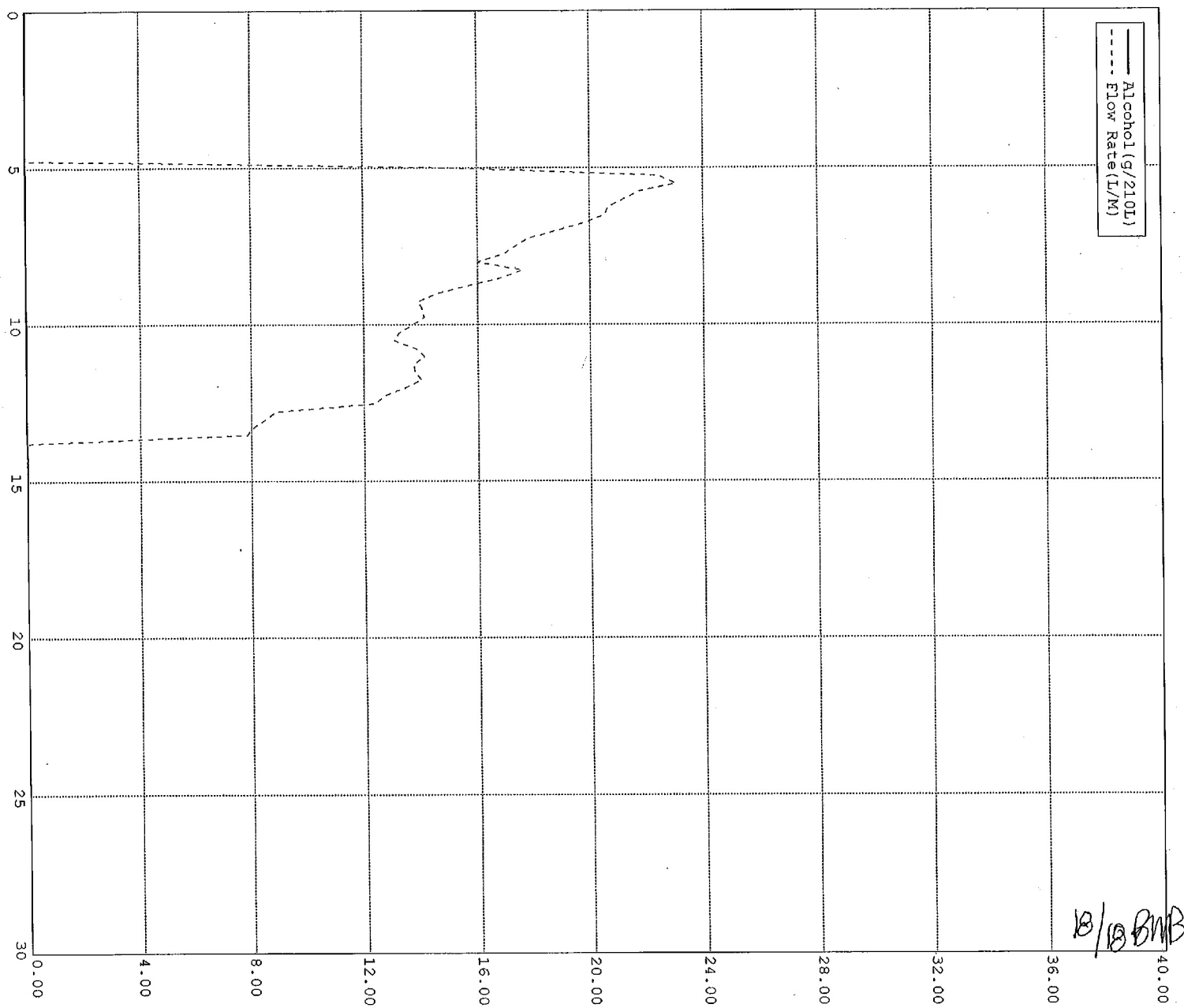
OPERATOR NAME:
 BRANDI M BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.86: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	10:05
BLANK TEST	0.000	10:05
INTERNAL STANDARD	VERIFIED	10:05
EXTERNAL STANDARD	0.079	10:06
BLANK TEST	0.000	10:06
SUBJECT SAMPLE	0.000	10:07
BLANK TEST	0.000	10:08
EXTERNAL STANDARD	0.078	10:08
BLANK TEST	0.000	10:09

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