

	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 # 100373Analyst 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 1700 mL ☒
5. Dry Gas Linearity Test (attached)

- a. Levels Used ☒

- i. 0.020g/210L Mnf ILMO Lot 15210020A1 Exp 07/01/12
- ii. 0.040g/210L Mnf ILMO Lot 15210040A2 Exp 07/01/12
- iii. 0.080g/210L Mnf ILMO Lot 33609080A1 Exp 01/01/12
- iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 03/01/2012 ^{20B}
- v. 0.200g/210L Mnf ILMO Lot 07411200A2 Exp 03/01/2013 ^{8MB}
- vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 03/01/2013 ^{4/14/11}

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 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)

Page 1 of 1

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 04/14/2011
Time: 09:29:09

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 = 3.998 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

INTERNAL STANDARD	PASSED
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2/18 BMB

Technician Screen

DATAMASTER dmt: 100373

Date: 04/14/2011
Time: 9:38 AM

Temperatures (°C)
Sample Cell: 49.1°C
Breath Tube: 48.0°C

Current Barometer 29.8 in
Volume (Ltr) 1.49

Settings
Lamp: 1.71 V
Bias: 79 V
Cooler: 1.61 V
Chopper: 529 Hz

Voltages (V)
Flow: 1.06 V
Detector: 0.246 V

3/18/11

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100373

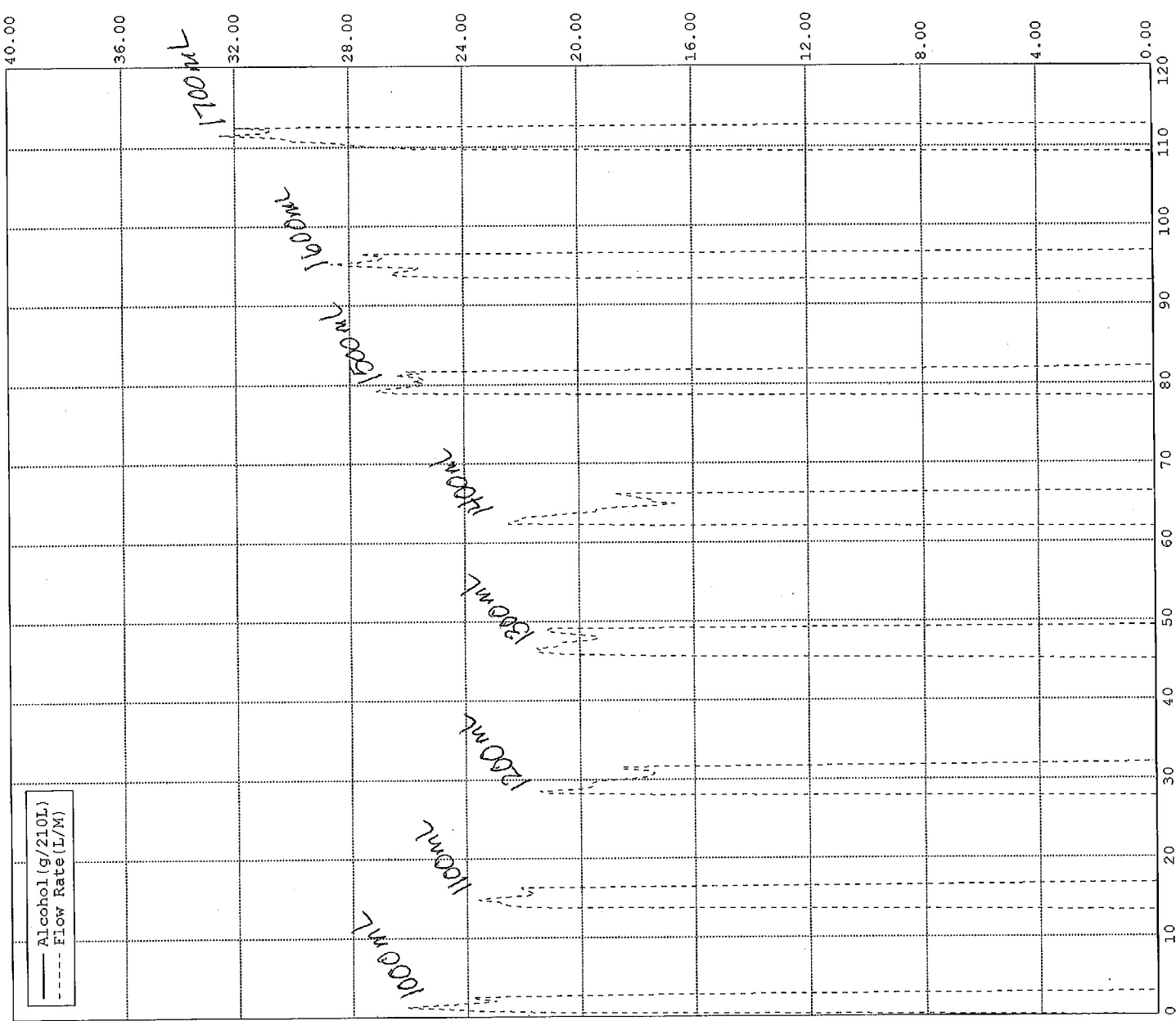
Date: 04/12/2011
Time: 16:20:23

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2012

Ca = 0.1000
CAL = 0.963237 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0051 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0814 0.0500 <= Xq < 0.2000
a21 = 1.168708 1.050 <= a21 < 1.300
a31 = 0.507741 0.300 <= a31 < 0.800

4/16/2011



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100373

Date: 04/14/2011
Time: 09:40:24

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 29.77: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	09:41
BLANK TEST	0.000	09:41
INTERNAL STANDARD	VERIFIED	09:41
EXTERNAL STANDARD	0.079	09:41
BLANK TEST	0.000	09:42
SUBJECT SAMPLE	0.000	09:44
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.079	09:46
BLANK TEST	0.000	09:46

BMB

5/10/2011

LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100373

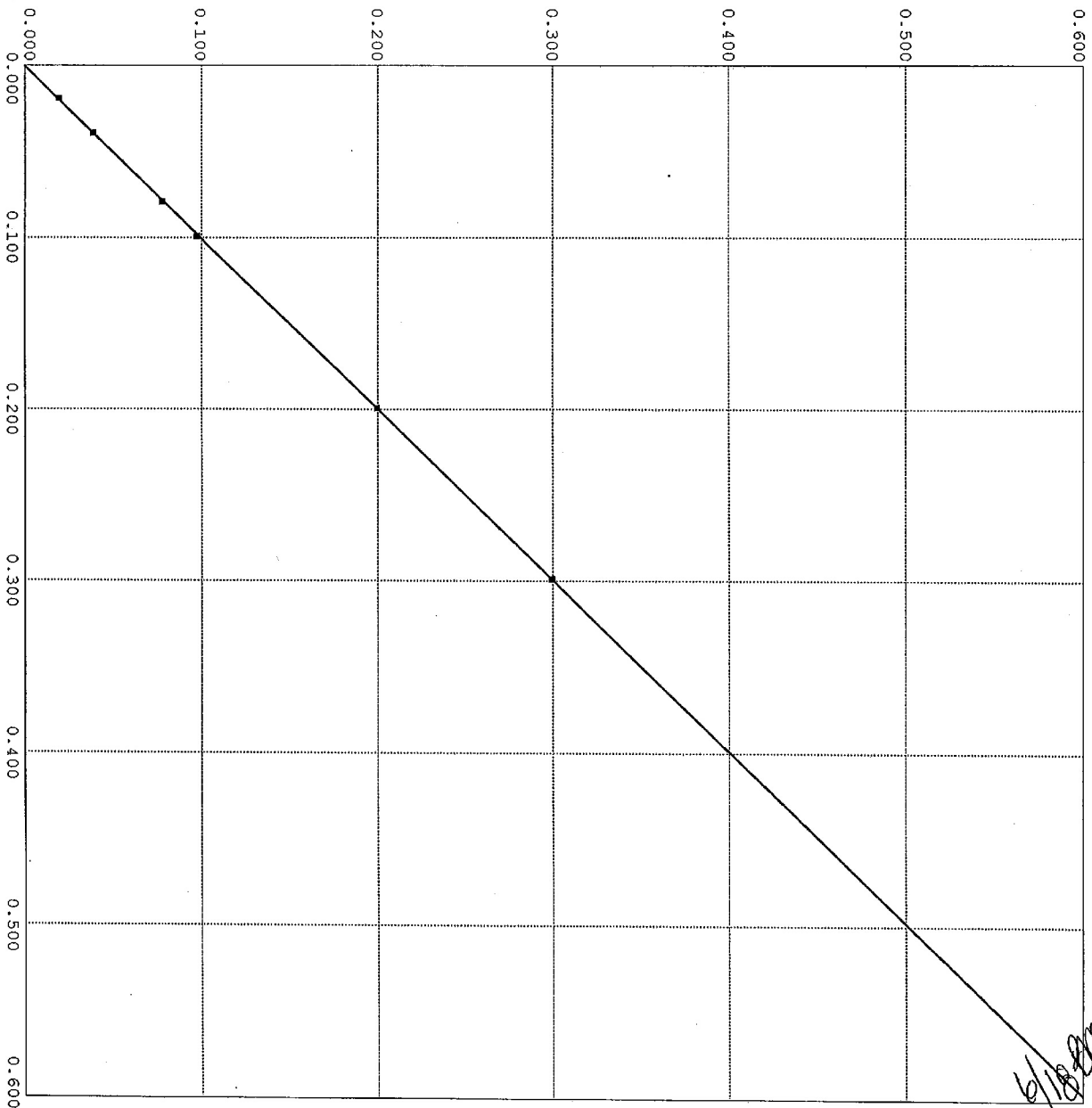
Date: 04/14/2011
Time: 09:59:30

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0004
0.039	0.0394	0.0005
0.079	0.0784	0.0005
0.099	0.0984	0.0005
0.199	0.2004	0.0009
0.298	0.3002	0.0008

SLOPE = 1.006642
 R^2 = 0.999966

BME



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100373

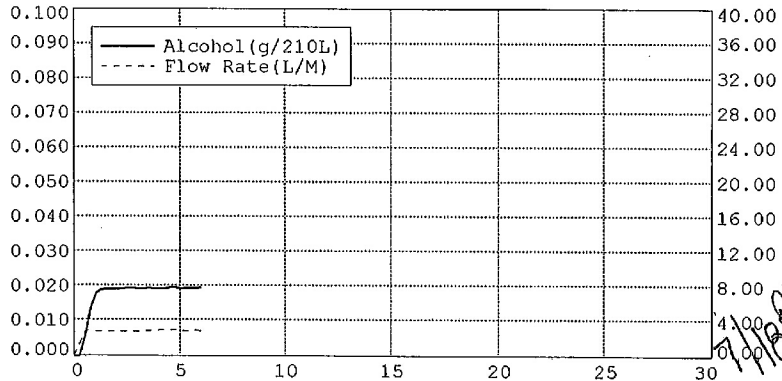
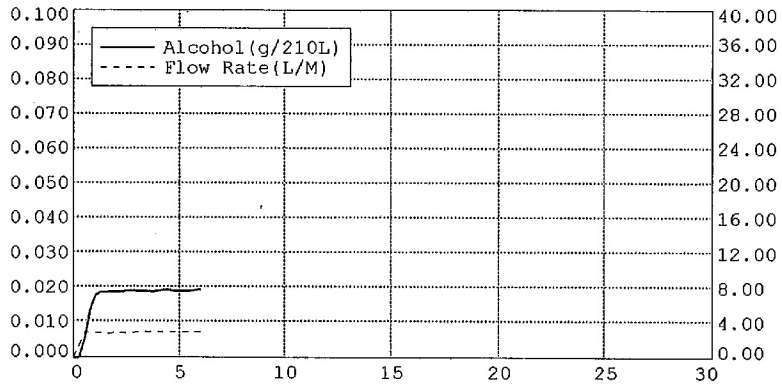
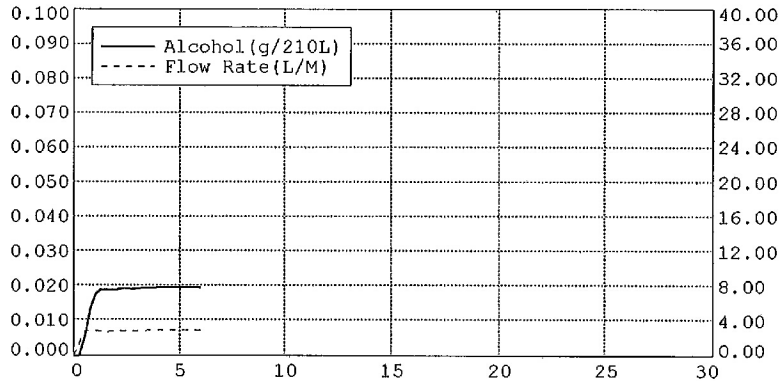
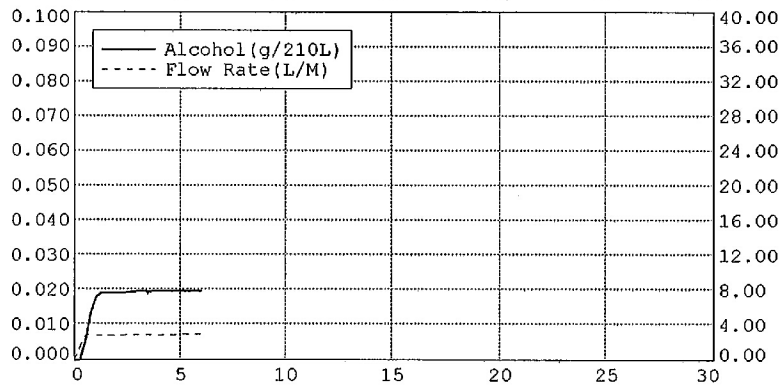
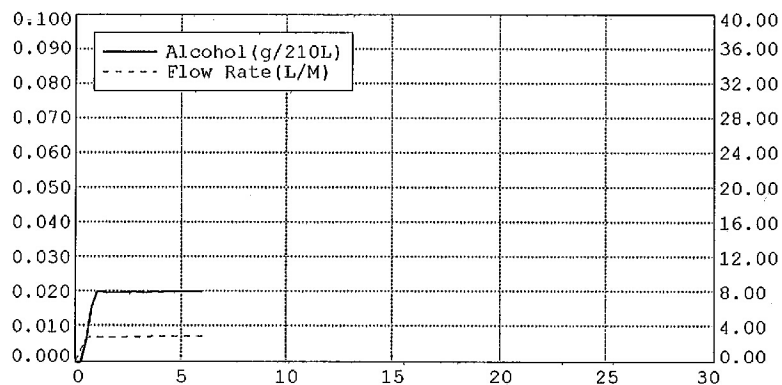
Date: 04/14/2011
Time: 10:11:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.78: 0.019
LOT #: 15210020A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	10:13
INTERNAL STANDARD	VERIFIED	10:13
EXTERNAL STANDARD	0.021	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.020	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.020	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.020	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.020	10:17
BLANK TEST	0.000	10:18

Average = 0.0202
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

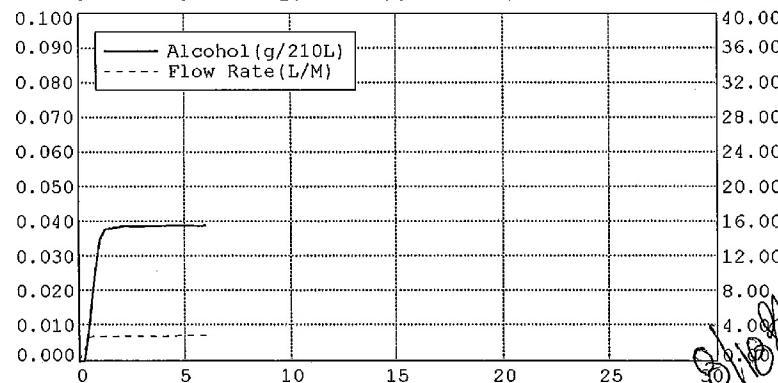
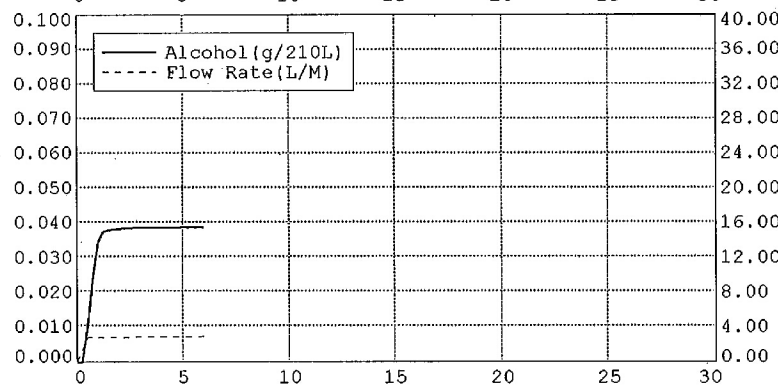
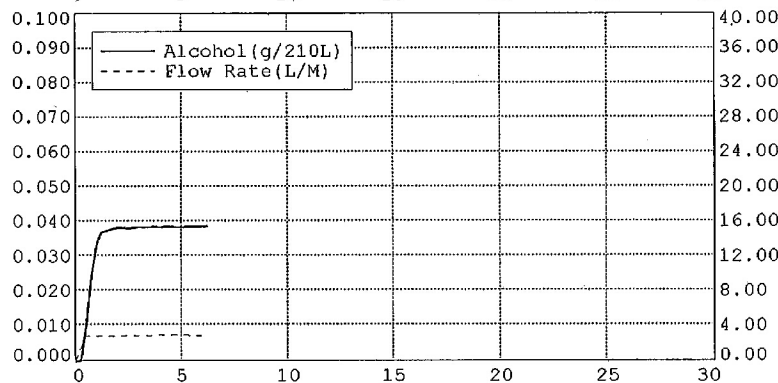
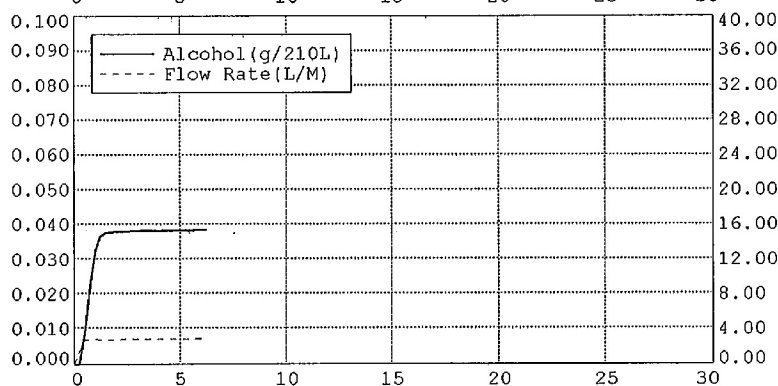
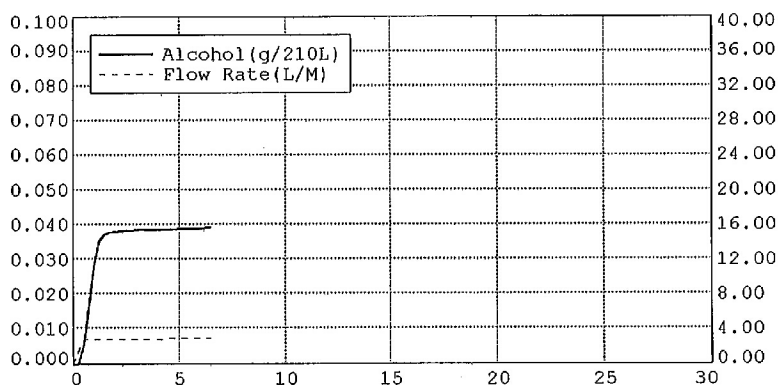
Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 04/14/2011
Time: 10:22:36

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.78: 0.039
LOT #: 15210040A2
EXPIRATION: 07/01/2012

BLANK TEST	0.000	10:23
INTERNAL STANDARD	VERIFIED	10:23
EXTERNAL STANDARD	0.040	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.039	10:25
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.039	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.039	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.040	10:28
BLANK TEST	0.000	10:29

Average = 0.0394
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100373

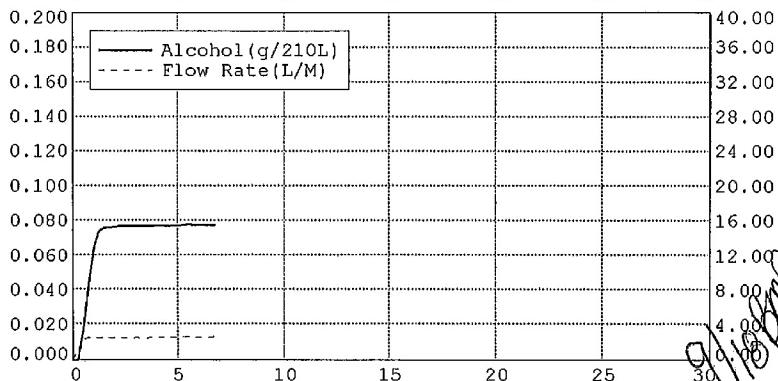
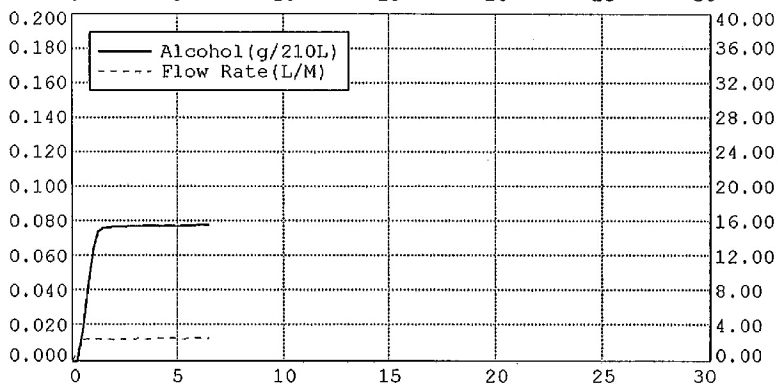
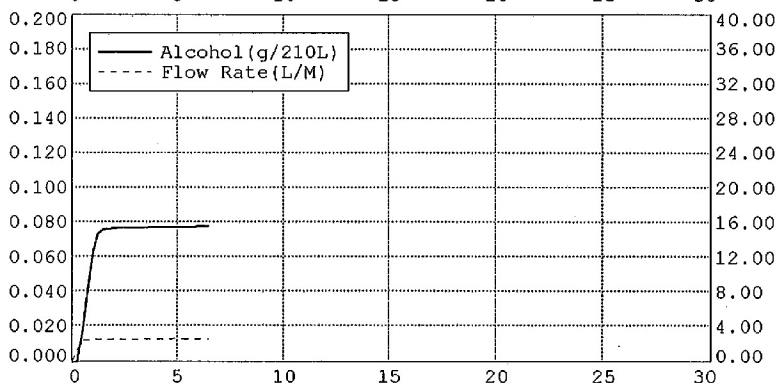
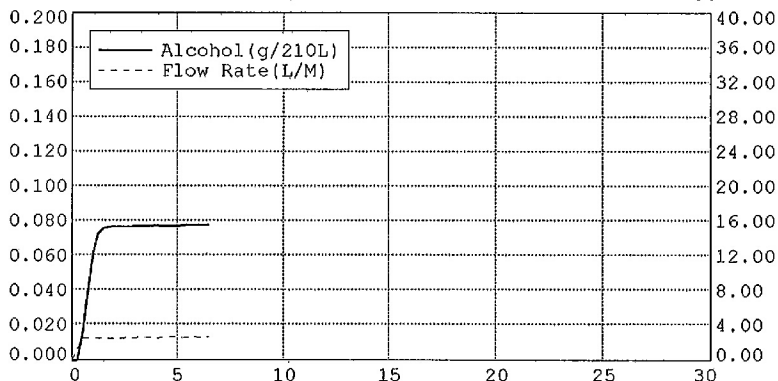
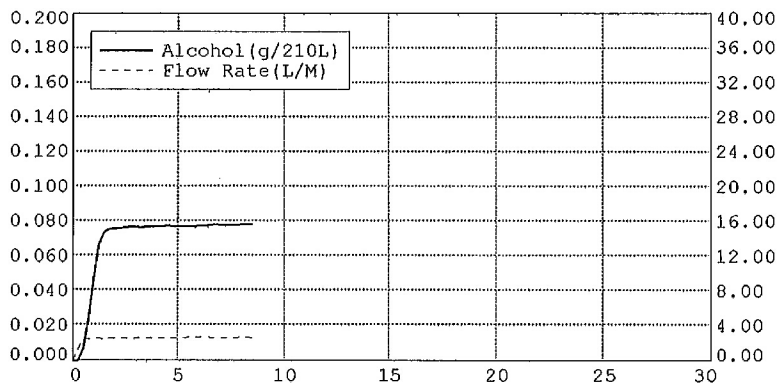
Date: 04/14/2011
Time: 10:33:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.78: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	10:34
INTERNAL STANDARD	VERIFIED	10:34
EXTERNAL STANDARD	0.079	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.078	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.078	10:37
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.079	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.078	10:39
BLANK TEST	0.000	10:40

Average = 0.0784
Std Dev = 0.0005



9/1/2011

LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100373

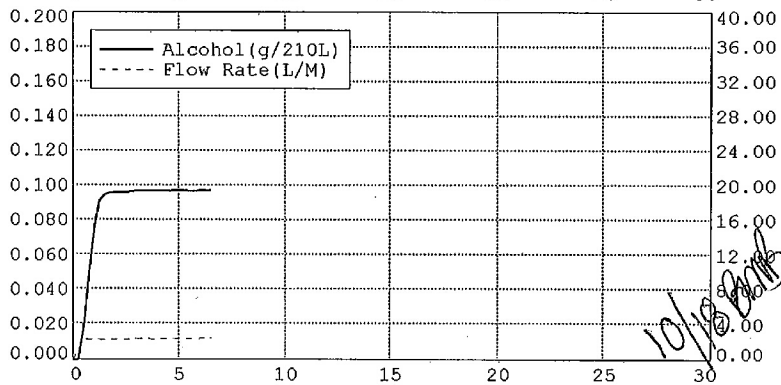
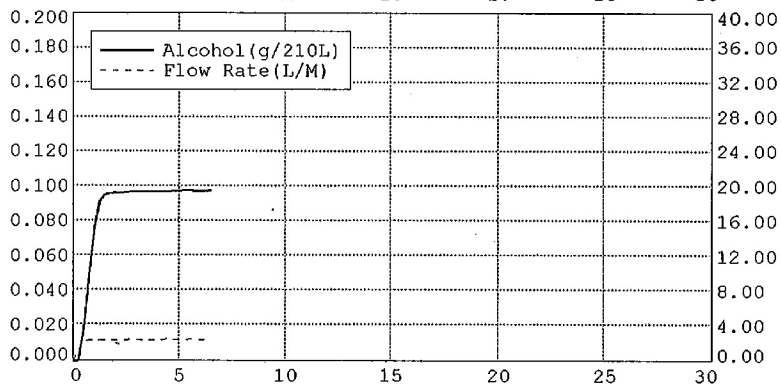
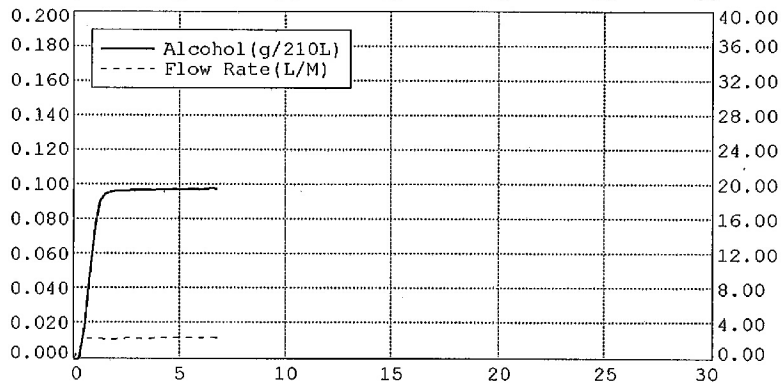
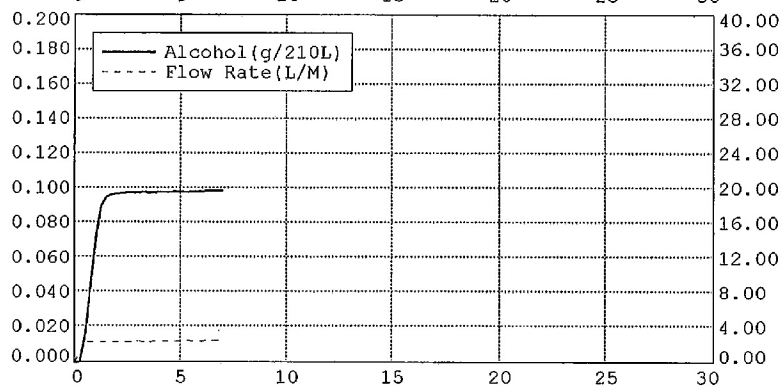
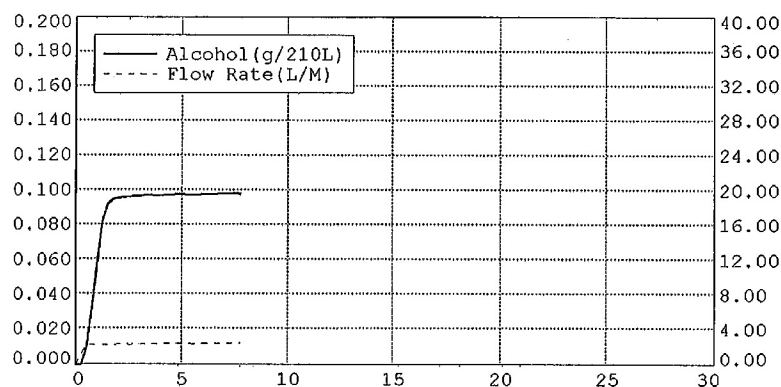
Date: 04/14/2011
Time: 10:46:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.80: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2012

2013
4/14/11
8MB
Blank Test 0.000 10:47
INTERNAL STANDARD VERIFIED
EXTERNAL STANDARD 0.099 10:48
Blank Test 0.000 10:49
EXTERNAL STANDARD 0.099 10:49
Blank Test 0.000 10:50
EXTERNAL STANDARD 0.098 10:50
Blank Test 0.000 10:51
EXTERNAL STANDARD 0.098 10:51
Blank Test 0.000 10:52
EXTERNAL STANDARD 0.098 10:52
Blank Test 0.000 10:53

Average = 0.0984
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100373

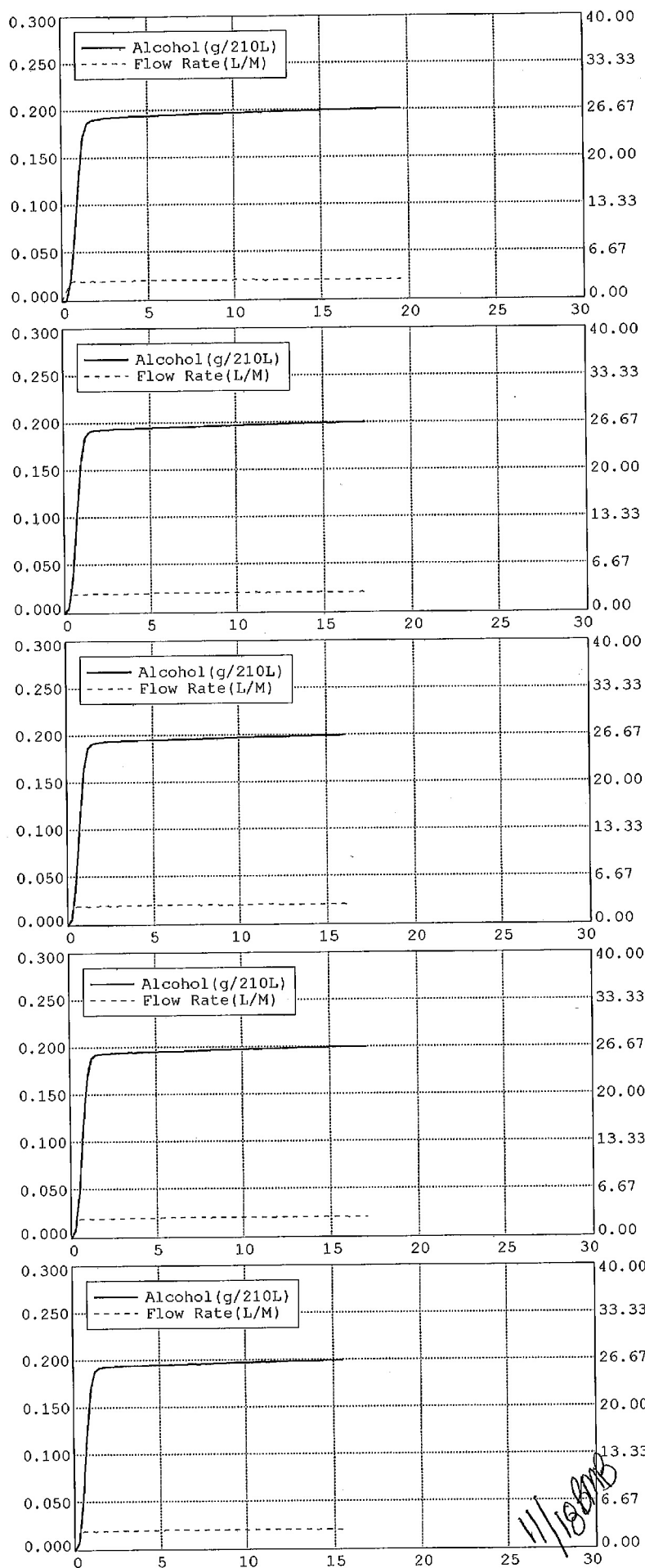
Date: 04/14/2011
Time: 11:00:47

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.80: 0.199
LOT #: 07411200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:02
INTERNAL STANDARD	VERIFIED	11:02
EXTERNAL STANDARD	0.202	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.200	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.200	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.200	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.200	11:09
BLANK TEST	0.000	11:09

Average = 0.2004
Std Dev = 0.0009



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100373

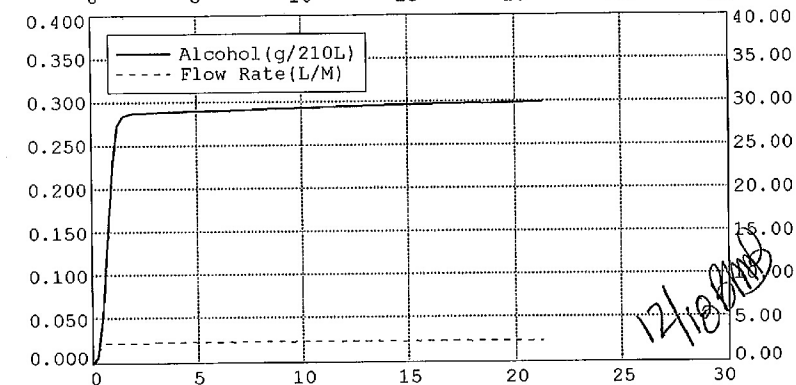
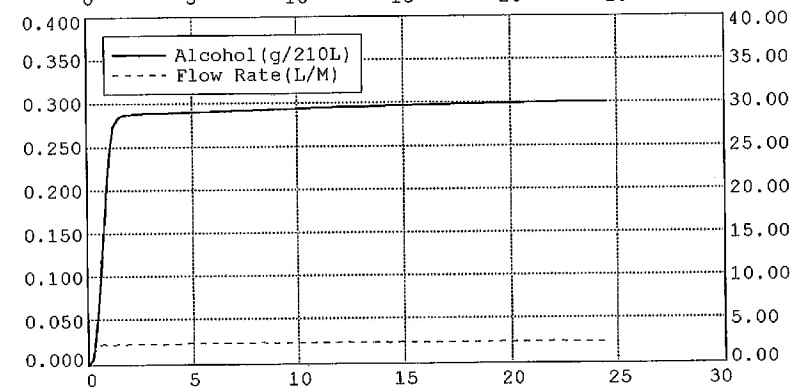
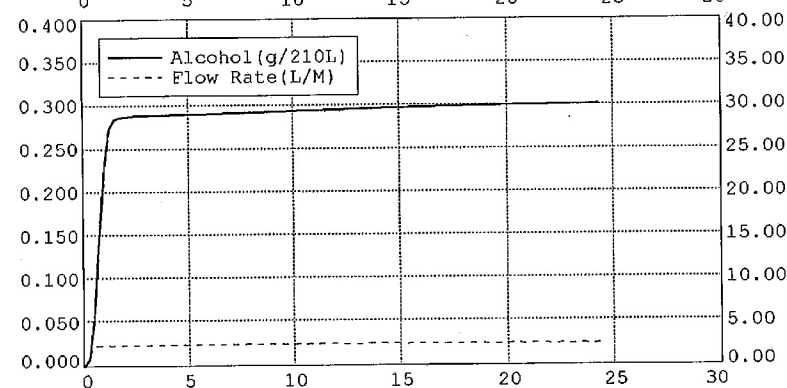
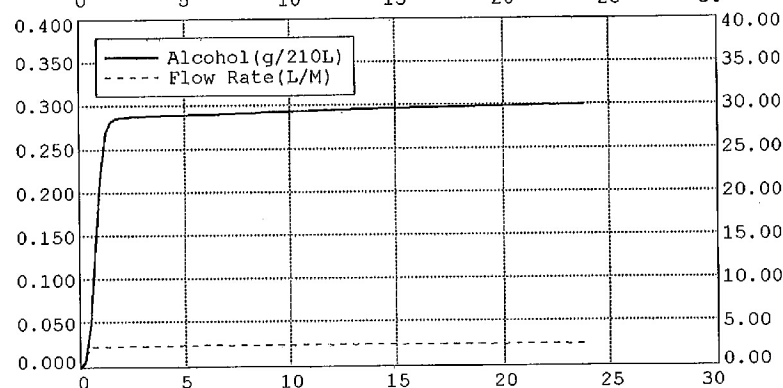
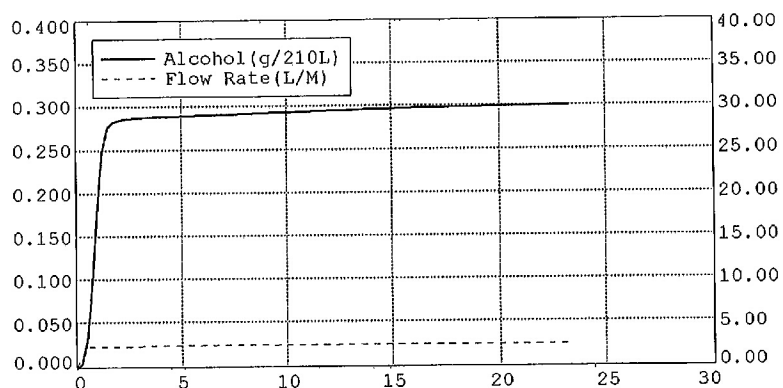
Date: 04/14/2011
Time: 11:14:20

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.81: 0.298
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:15
INTERNAL STANDARD	VERIFIED	11:15
EXTERNAL STANDARD	0.300	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.300	11:17
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.301	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.301	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.299	11:22
BLANK TEST	0.000	11:24

Average = 0.3002
Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 04/14/2011
Time: 11:29:27

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

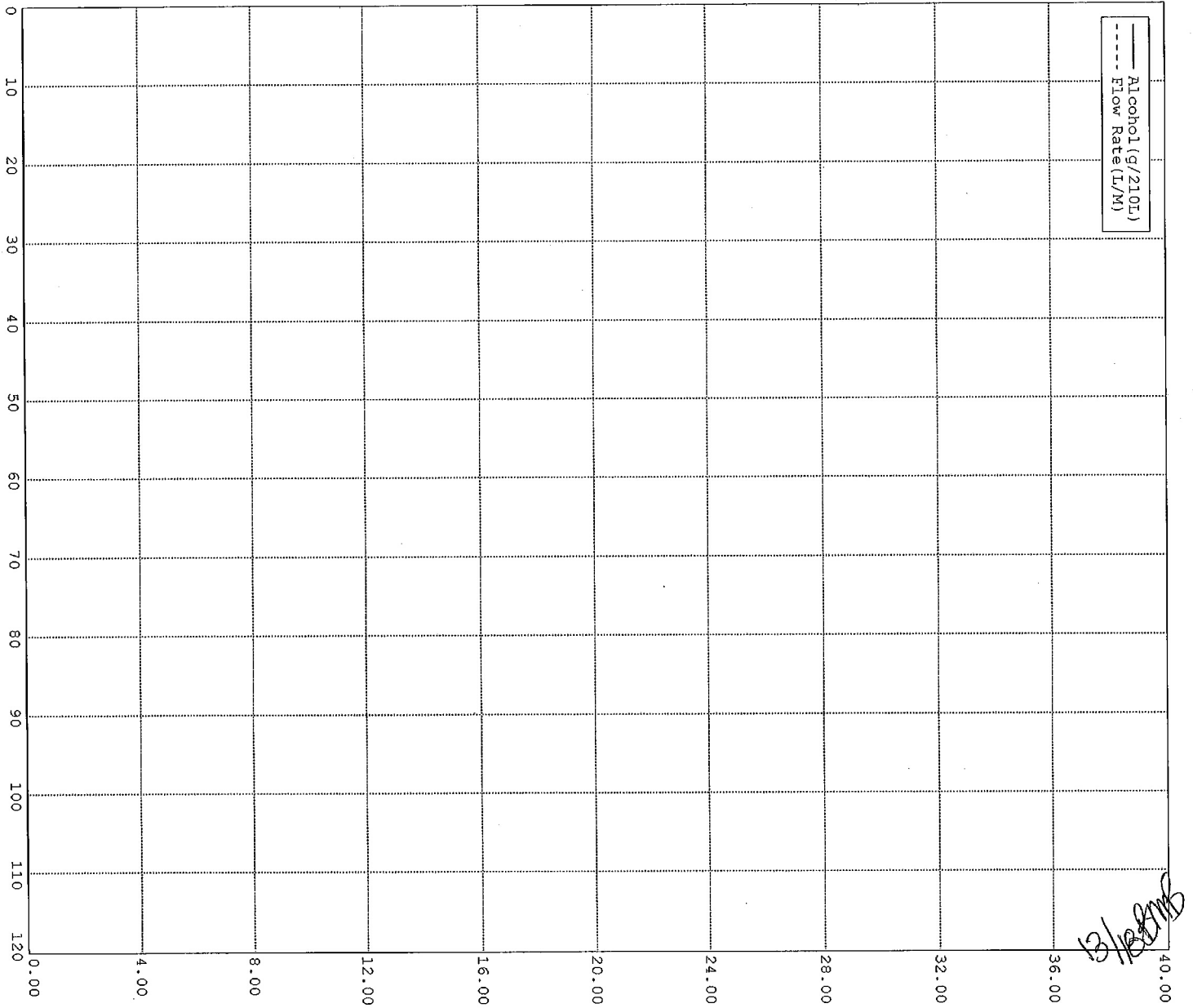
OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.81: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	11:30
BLANK TEST	0.000	11:30
INTERNAL STANDARD	VERIFIED	11:30
EXTERNAL STANDARD	0.080	11:30
BLANK TEST	0.000	11:31
SUBJECT SAMPLE	INCOMPLETE	11:33

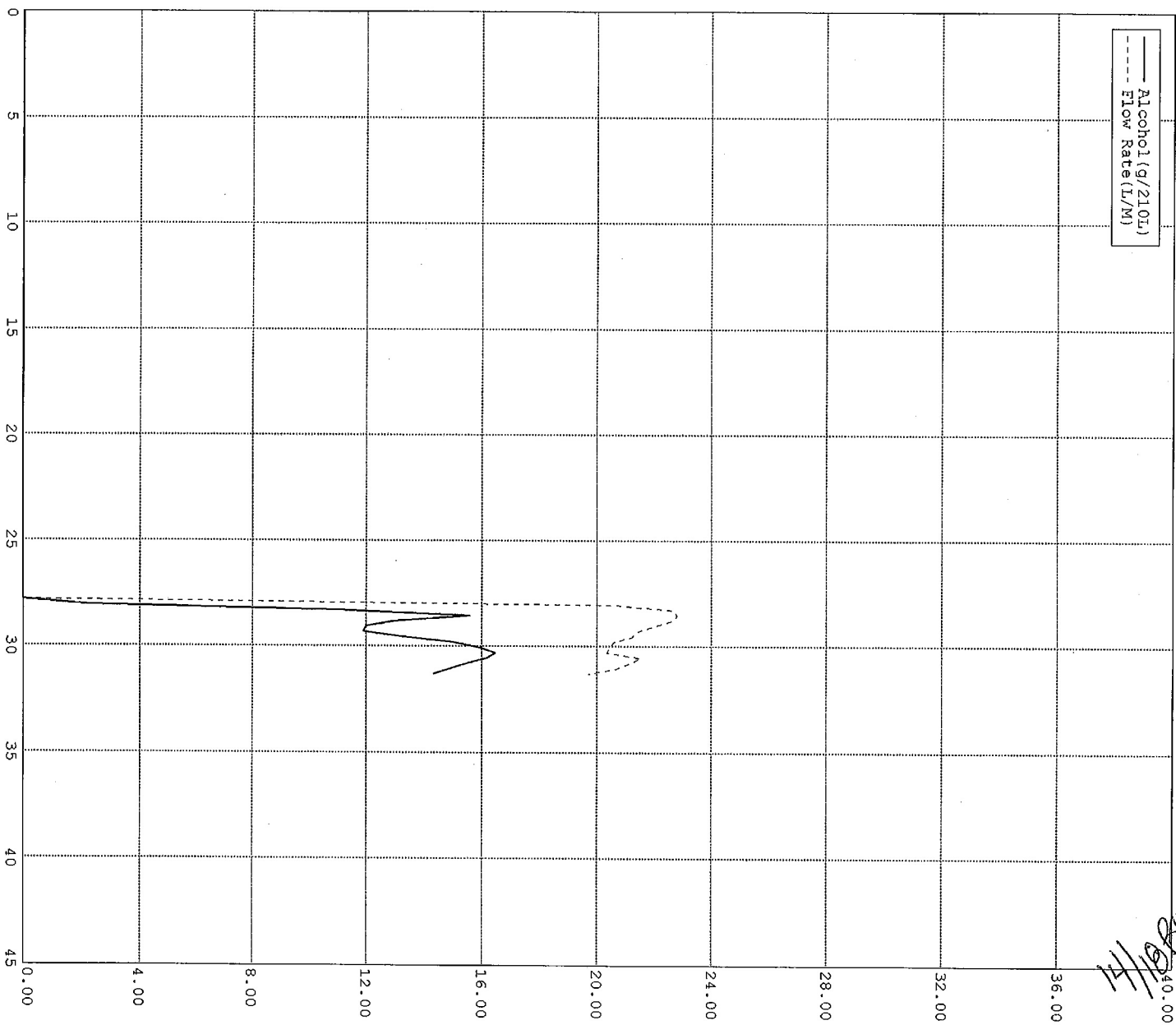
BAB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100373Date: 04/14/2011
Time: 12:19:30SUBJECT NAME:
TEST TEST
LICENSE #: XXXXXOPERATOR NAME:
INVALID XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.82: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012DIAGNOSTIC CHECK
BLANK TEST PASSED 12:21
INTERNAL STANDARD VERIFIED 12:21
EXTERNAL STANDARD 0.079 12:21
BLANK TEST 0.000 12:22
SUBJECT SAMPLE Invalid 12:23

BMB



SUBJECT TEST

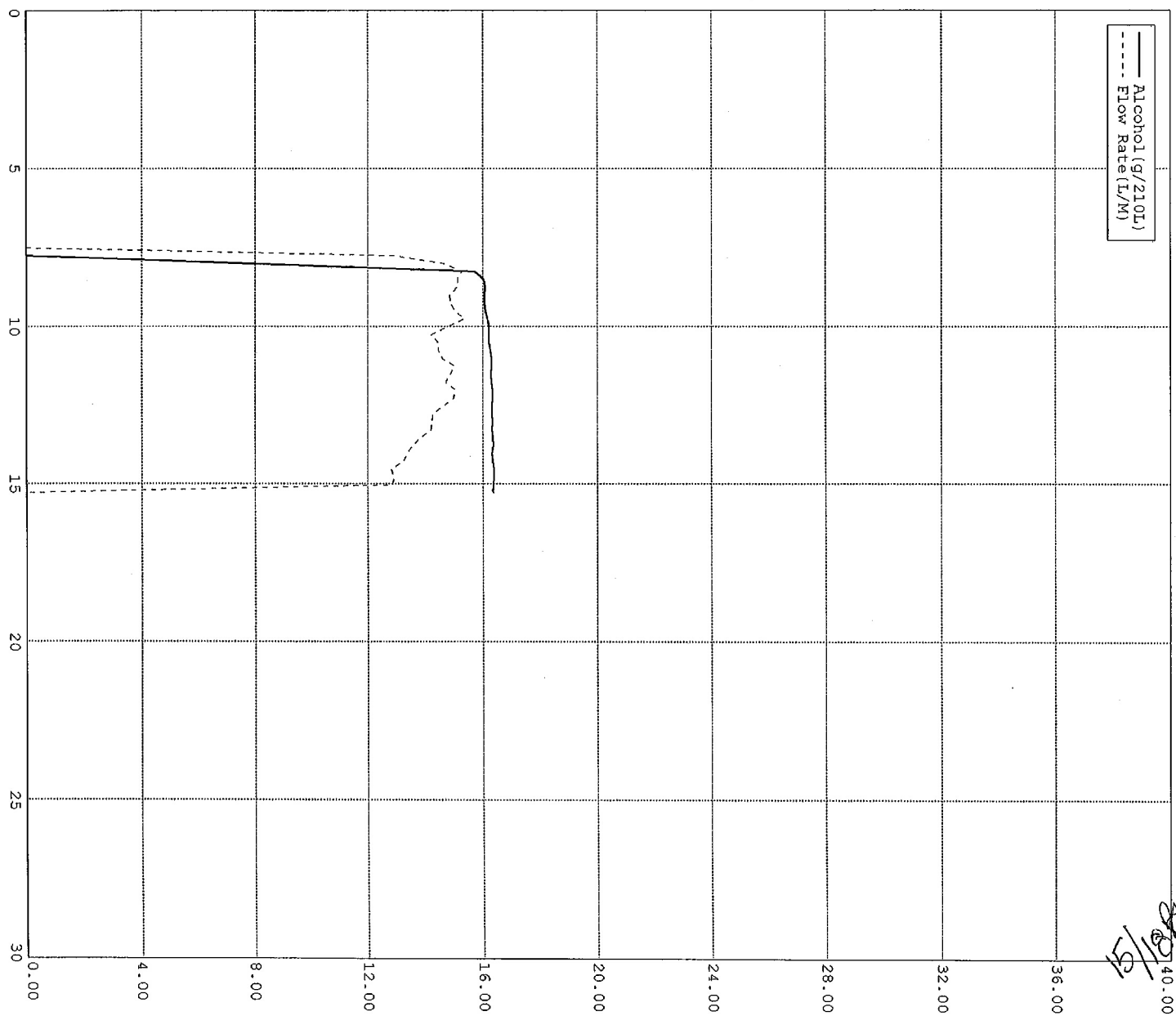
Alaska Department of Public Safety
DATAMASTER dmt: 100373Date: 04/14/2011
Time: 12:25:38SUBJECT NAME:
TEST TEST
LICENSE #: INTERFEREOPERATOR NAME:
ETHANOL AND ACETONE
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXXCASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.82: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	12:26
BLANK TEST	0.000	12:26
INTERNAL STANDARD	VERIFIED	12:26
EXTERNAL STANDARD	0.079	12:27
BLANK TEST	0.000	12:28
SUBJECT SAMPLE	INTERFERENCE	12:28

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BMB
4/15/11

Alaska Department of Public Safety
 DATAMASTER dmt: 100373

Date: 04/14/2011
Time: 12:31:34

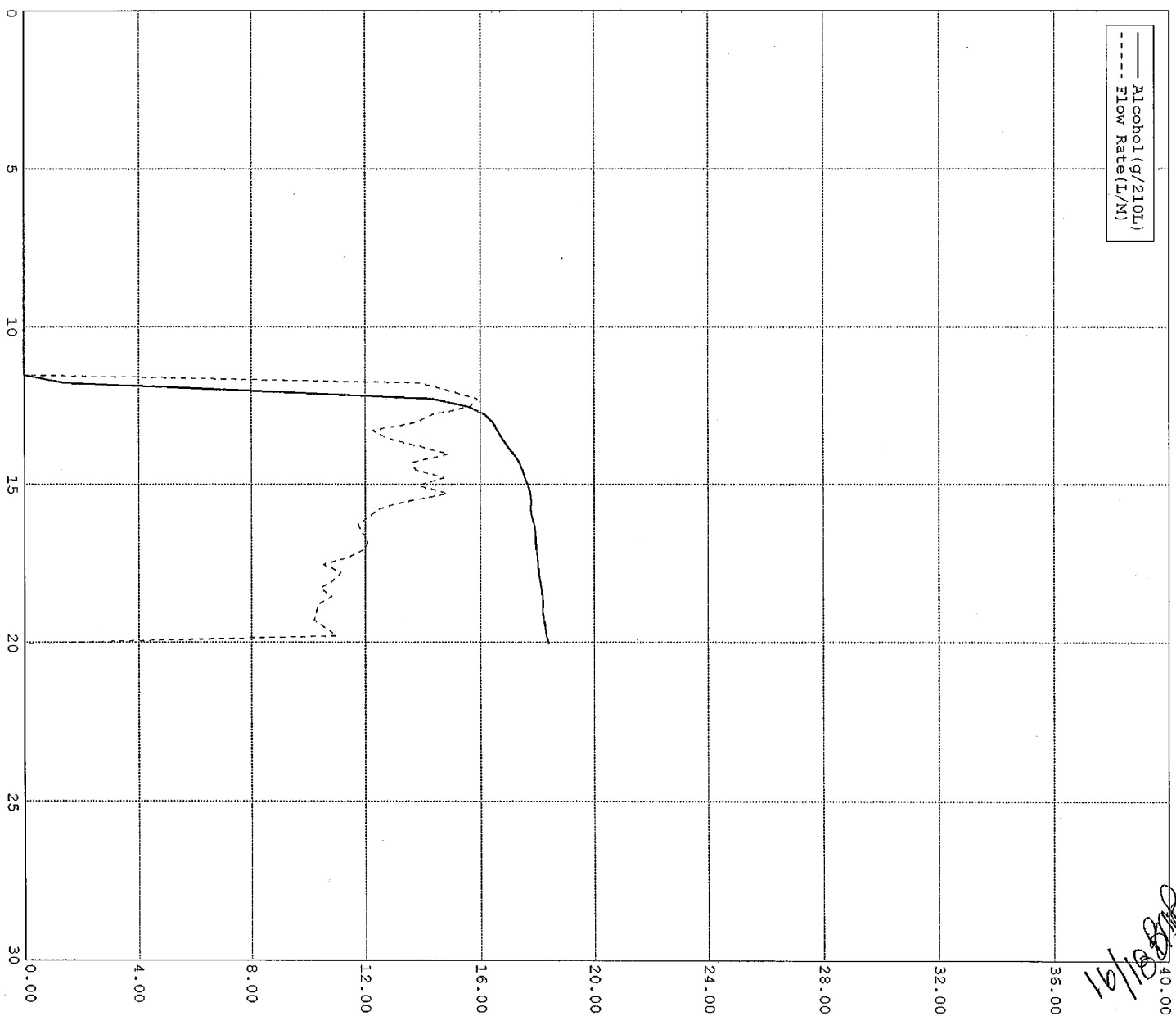
SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERE

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 29.82: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	12:32
BLANK TEST	0.000	12:32
INTERNAL STANDARD	VERIFIED	12:32
EXTERNAL STANDARD	0.079	12:33
BLANK TEST	0.000	12:33
SUBJECT SAMPLE		12:34
	INTERFERENCE	12:34



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 04/14/2011
Time: 11:40:28

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

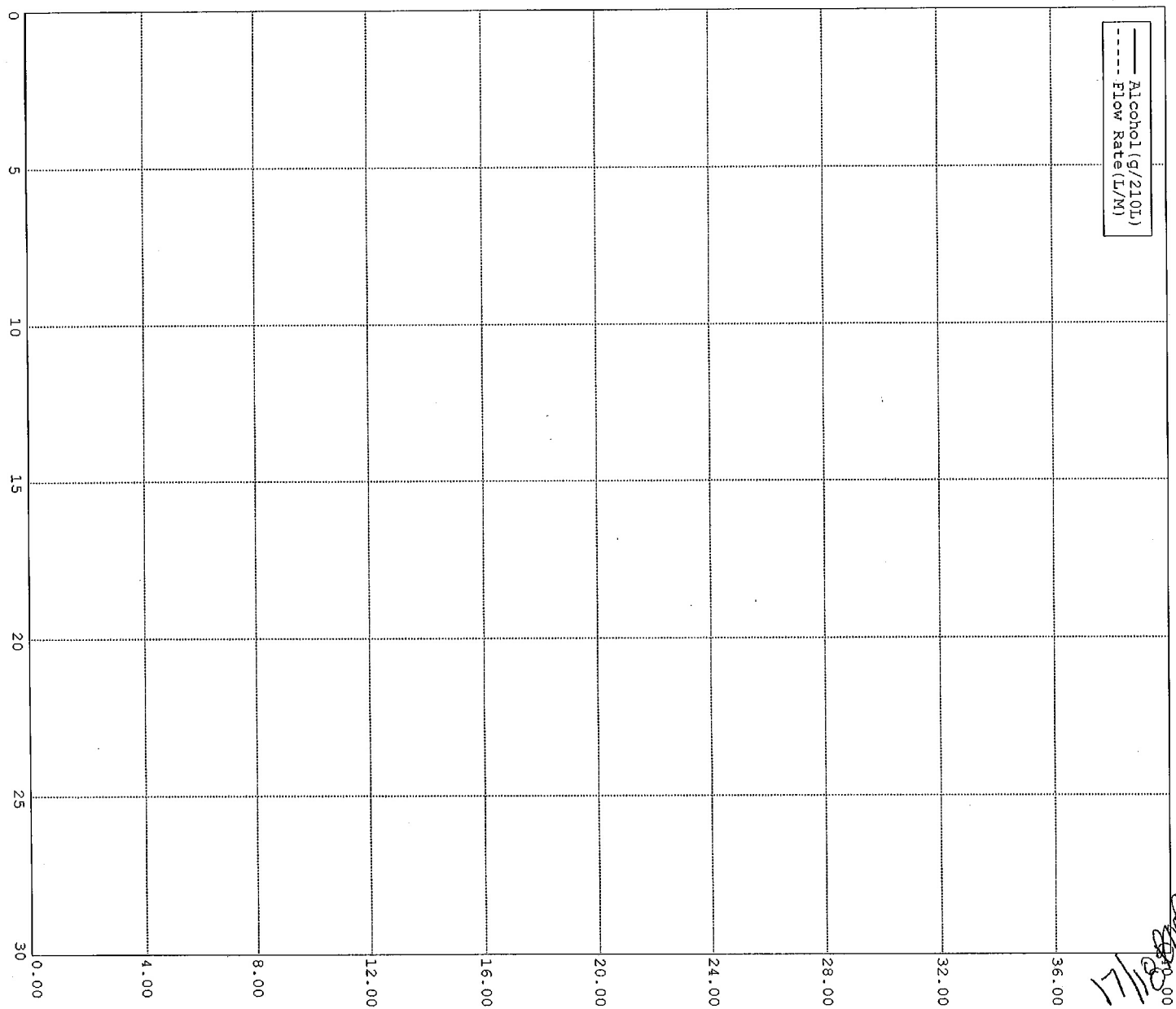
OPERATOR NAME:
RADIO INTERFERE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.81: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	11:42
BLANK TEST	0.000	11:42
INTERNAL STANDARD	VERIFIED	11:42
EXTERNAL STANDARD	0.079	11:43
BLANK TEST	0.000	11:44

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100373

Date: 04/14/2011
 Time: 12:45:40

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 29.82: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	12:46
BLANK TEST	0.000	12:46
INTERNAL STANDARD	VERIFIED	12:47
EXTERNAL STANDARD	0.079	12:47
BLANK TEST	0.000	12:48
SUBJECT SAMPLE	0.000	12:48
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.081	12:49
BLANK TEST	0.000	12:51

BMB

