

	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 # 100348Analyst Brandi BarnettDate 3/11/11

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 1500 mL ☒

5. Dry Gas Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 02811020A1 Exp 02/01/2013ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 02/01/2013iii. 0.080g/210L Mnf ILMO Lot 33609080A1 Exp 06/01/2012iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 03/11/2013v. 0.200g/210L Mnf ILMO Lot 17610200A1 Exp 07/01/2012vi. 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 12/2/20111. 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)

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DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 03/11/2011
Time: 12:06:02

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 47.0°C	PASSED

PUMP INFO	
Flow Rate = 5.126 L/M	PASSED

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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Technician Screen

DATAMASTER dmt: 100348

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

Temperatures (°C)

Sample Cell: 49.3°C
Breath Tube: 45.5°C

Current Barometer 29.7 in
Volume (Ltr) 1.58

Settings

Lamp: 2.06 V
Bias: 78 V
Cooler: 1.66 V
Chopper: 529 Hz

Voltages (V)

Flow: 1.04 V
Detector: 0.633 V

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CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 01/10/2011
Time: 16:15:44

Ca	=	0.1000		
CAL	=	0.978945	0.800	<= CAL < 1.200
b1	=	0.0003	0.0000	<= b1 < 0.0040
b2	=	0.0040	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0862	0.0500	<= Xq < 0.2000
a21	=	1.182472	1.050	<= a21 < 1.300
a31	=	0.519808	0.300	<= a31 < 0.800

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SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100348

Date: 03/11/2011
 Time: 12:23:52

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

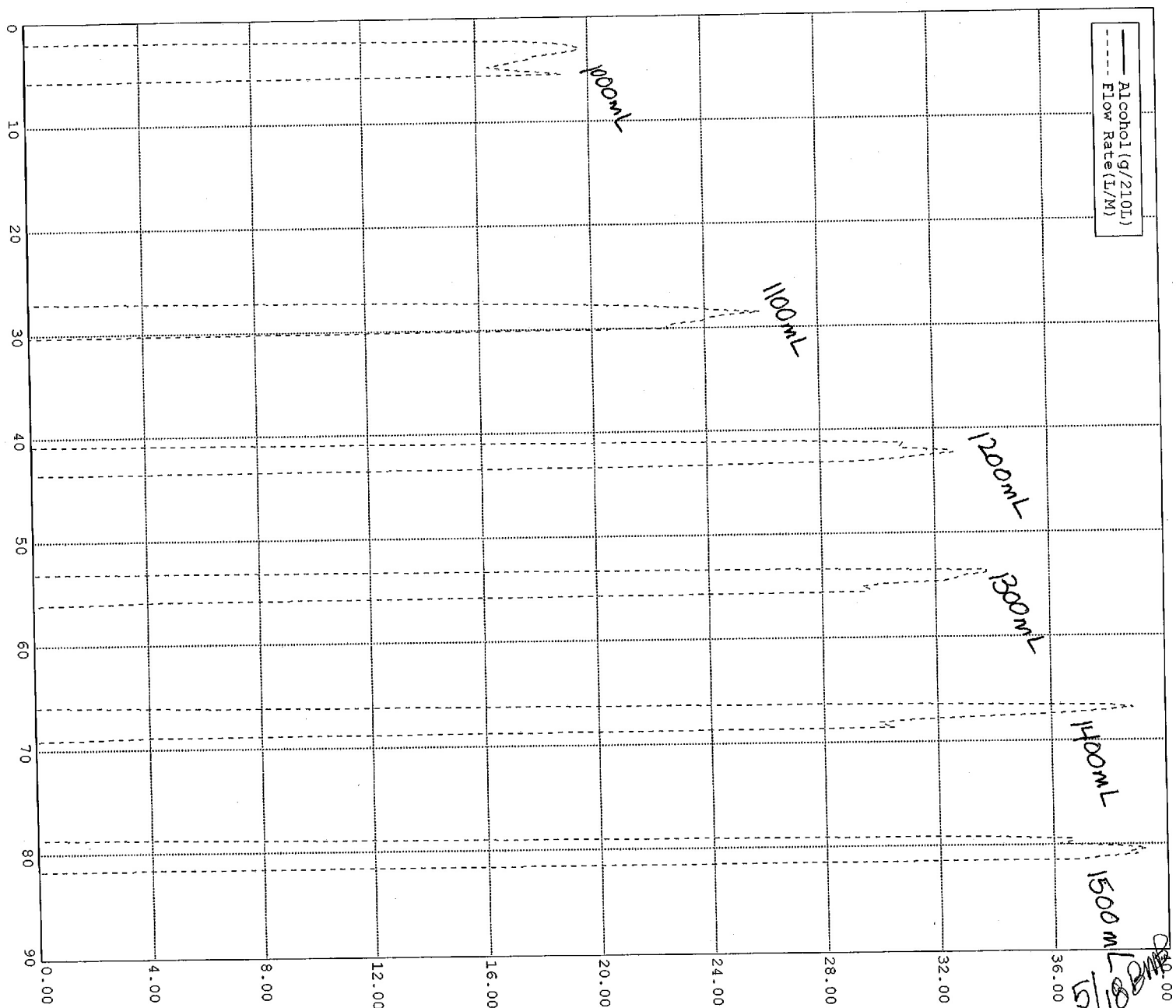
OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.73: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	12:25
BLANK TEST	0.000	12:26
INTERNAL STANDARD	VERIFIED	12:26
EXTERNAL STANDARD	0.080	12:26
BLANK TEST	0.000	12:27
SUBJECT SAMPLE	0.000	12:28
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.079	12:29
BLANK TEST	0.000	12:30

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LINEARITY CHECK

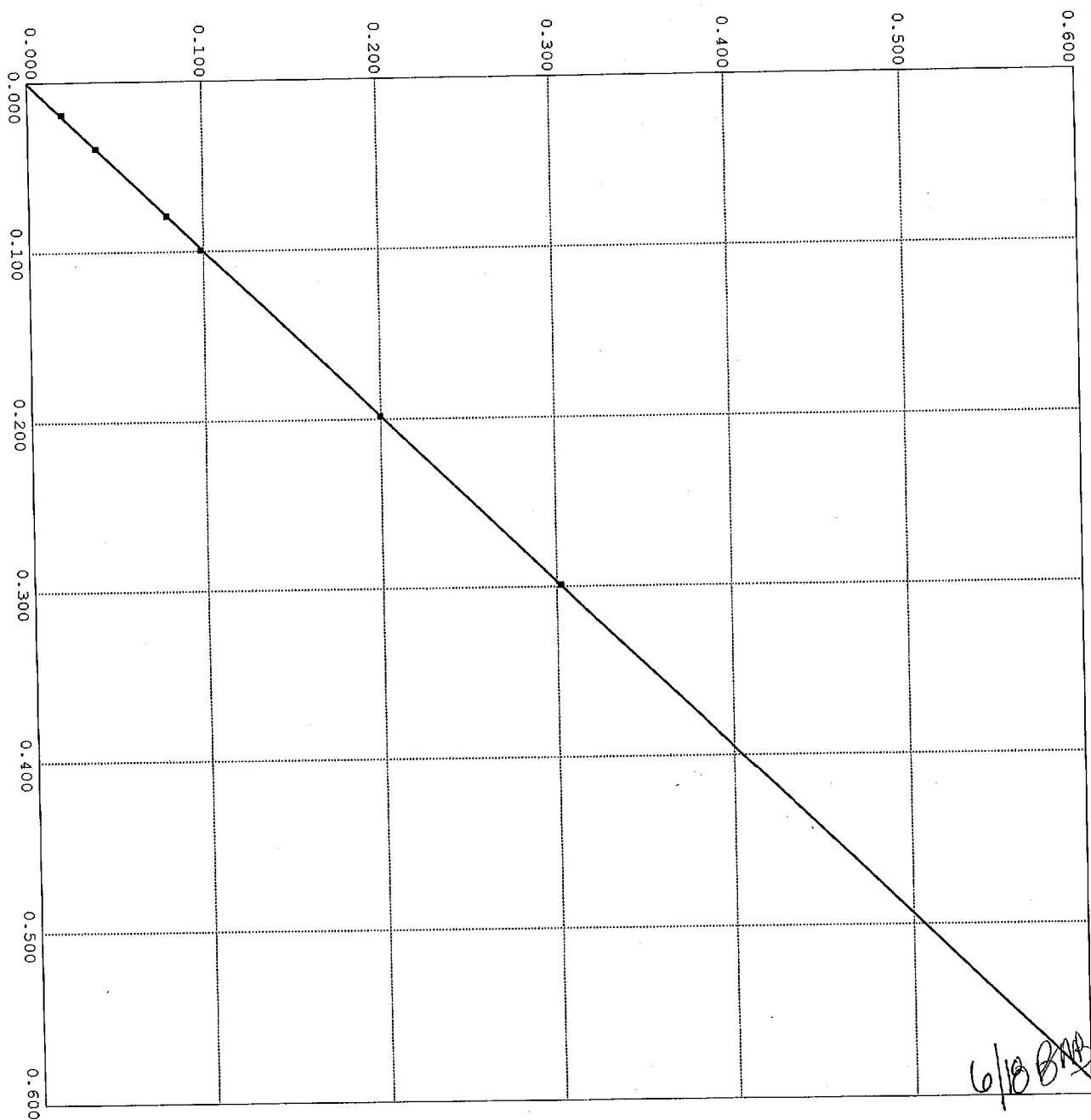
Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 03/11/2011
Time: 12:37:11

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	0.0798	0.0004
0.099	0.0992	0.0004
0.198	0.2006	0.0005
0.298	0.3030	0.0016

SLOPE = 1.015572
 R^2 = 0.999975



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LINEARITY CHECK: Control Test 1

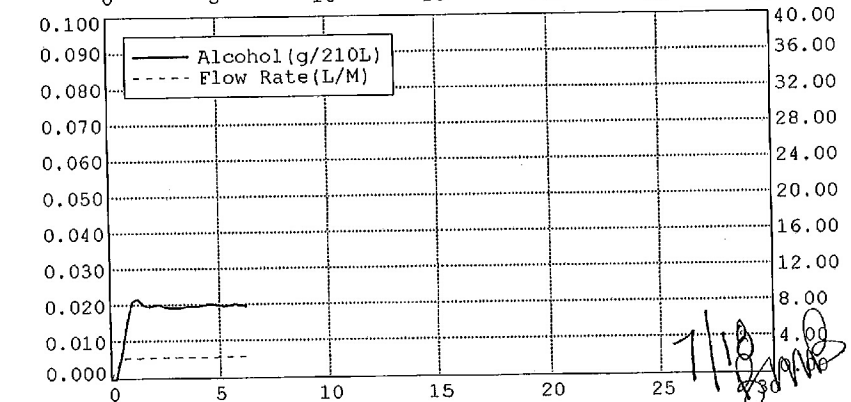
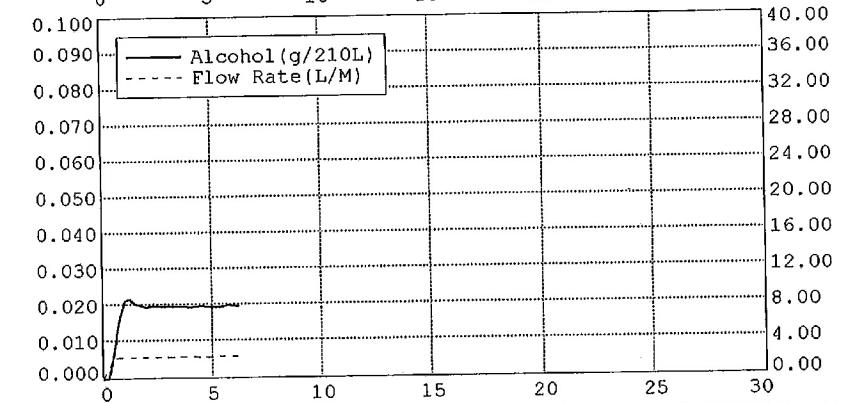
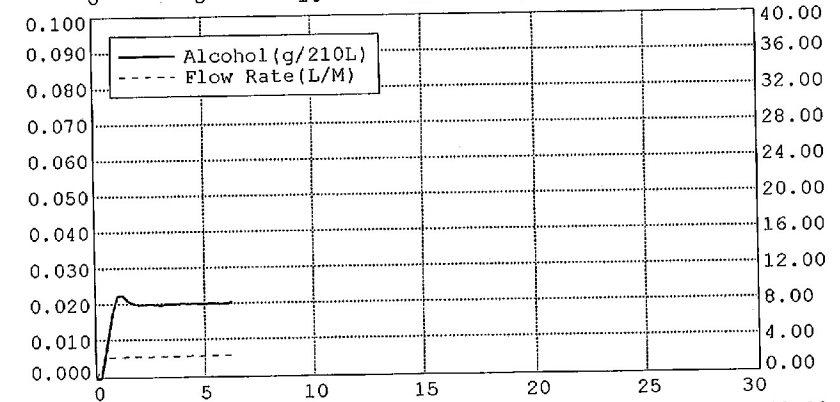
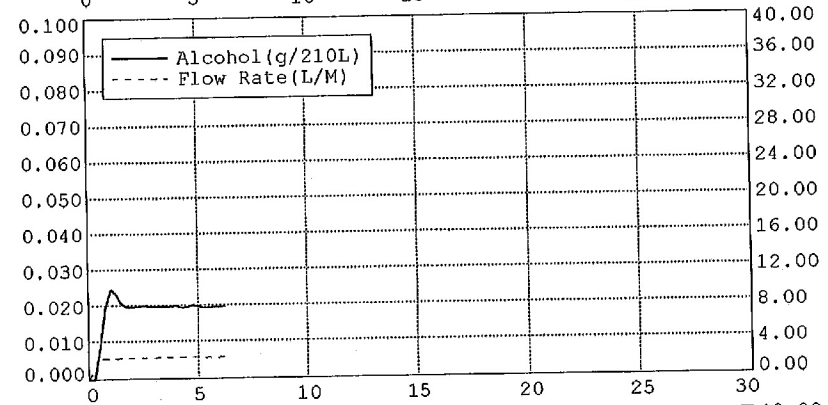
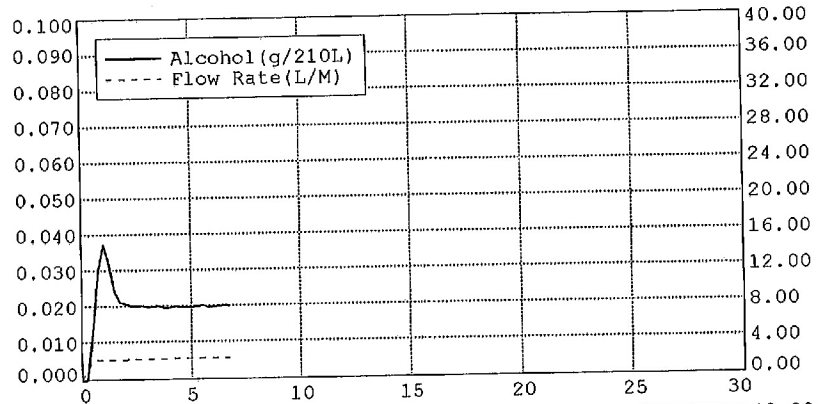
Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 03/11/2011
Time: 12:37:12

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.73: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:39
INTERNAL STANDARD	VERIFIED	12:39
EXTERNAL STANDARD	0.021	12:39
BLANK TEST	0.000	12:40
EXTERNAL STANDARD	0.020	12:40
BLANK TEST	0.000	12:41
EXTERNAL STANDARD	0.020	12:41
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.020	12:43
BLANK TEST	0.000	12:43
EXTERNAL STANDARD	0.020	12:44
BLANK TEST	0.000	12:45

Average = 0.0202
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100348

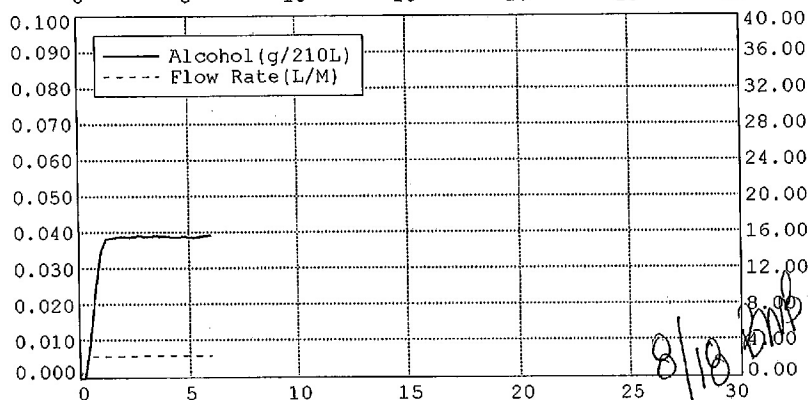
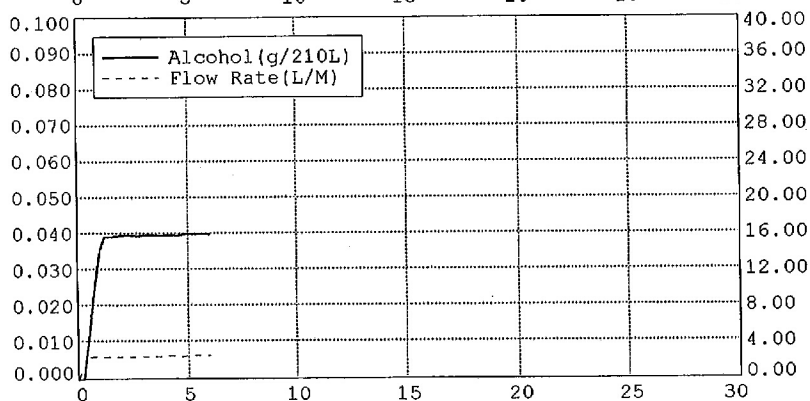
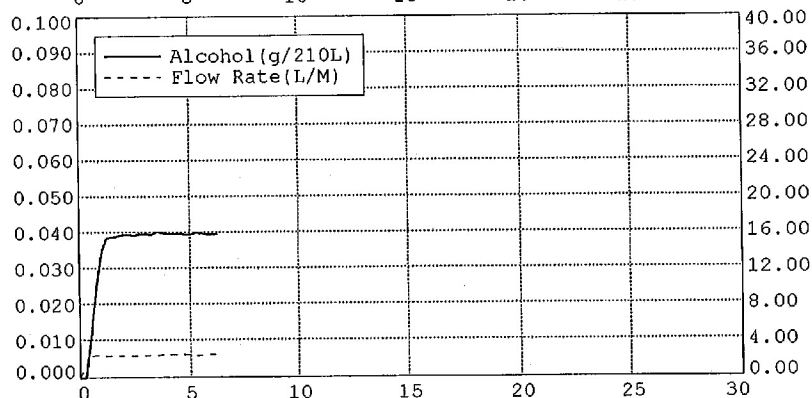
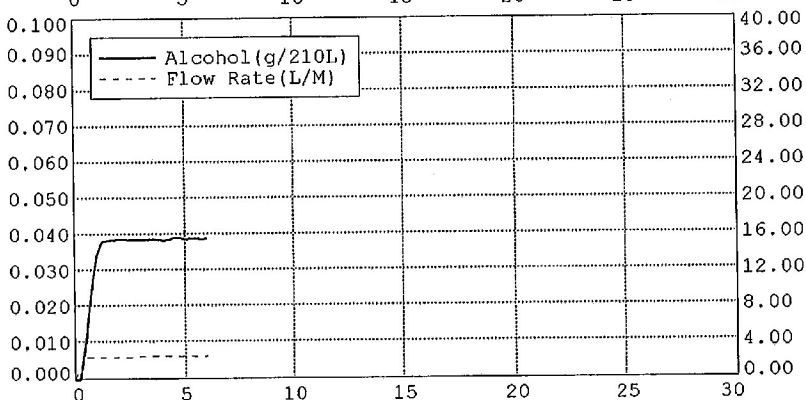
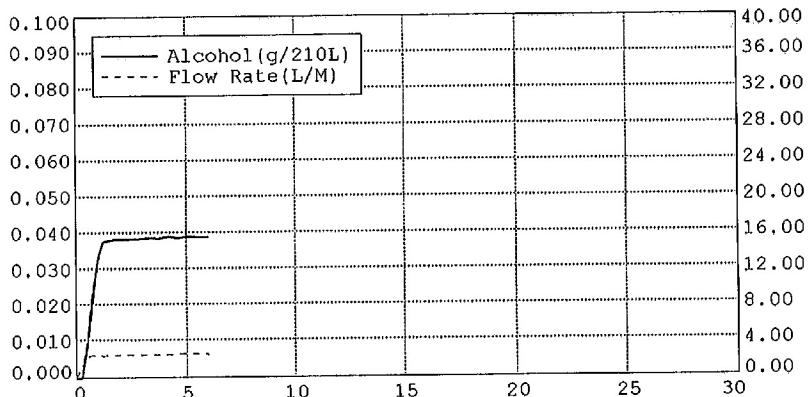
Date: 03/11/2011
Time: 12:52:24

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.73: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:53
INTERNAL STANDARD	VERIFIED	12:53
EXTERNAL STANDARD	0.039	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.039	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.040	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.040	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.039	12:58
BLANK TEST	0.000	12:59

Average = 0.0394
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

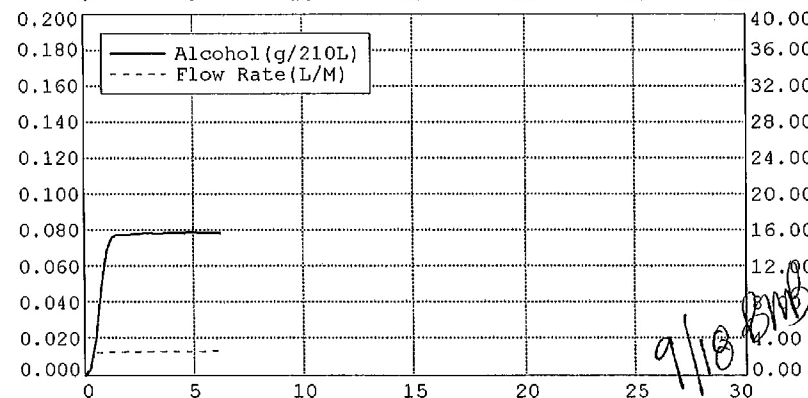
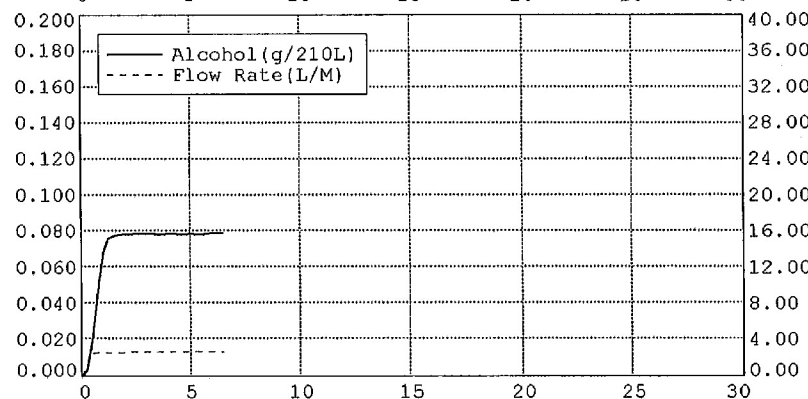
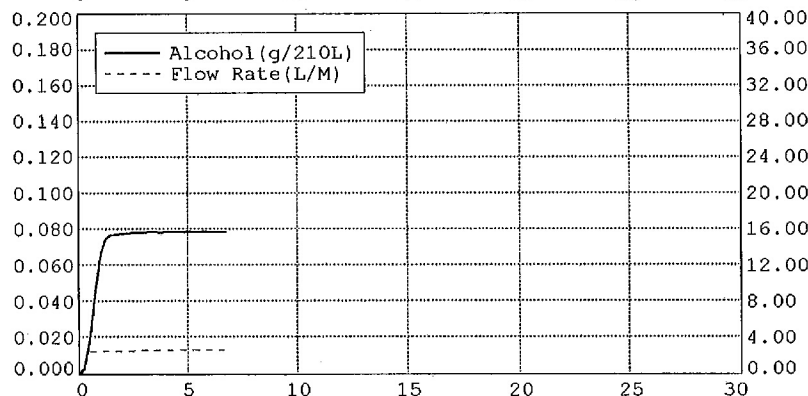
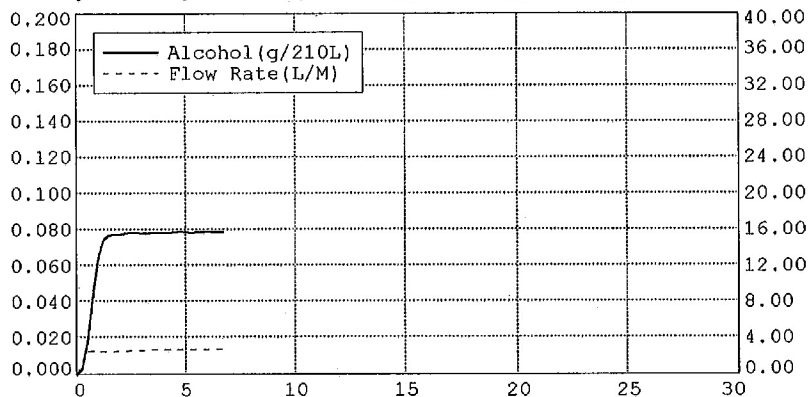
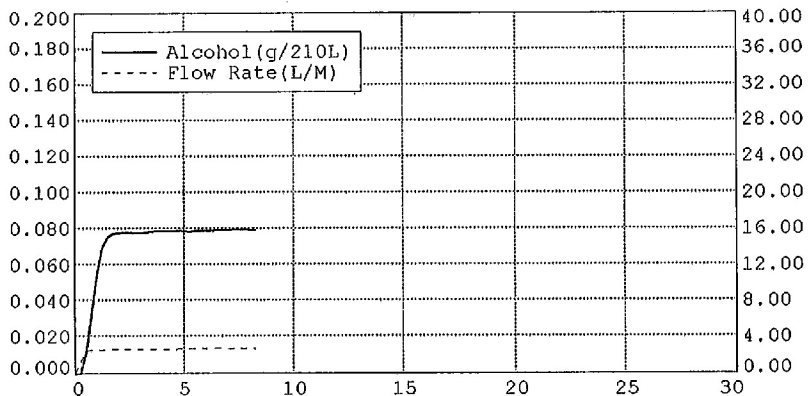
Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 03/11/2011
Time: 13:01:43

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.73: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	13:02
INTERNAL STANDARD	VERIFIED	13:02
EXTERNAL STANDARD	0.080	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.080	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.079	13:05
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.080	13:06
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.080	13:07
BLANK TEST	0.000	13:08

Average = 0.0798
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100348

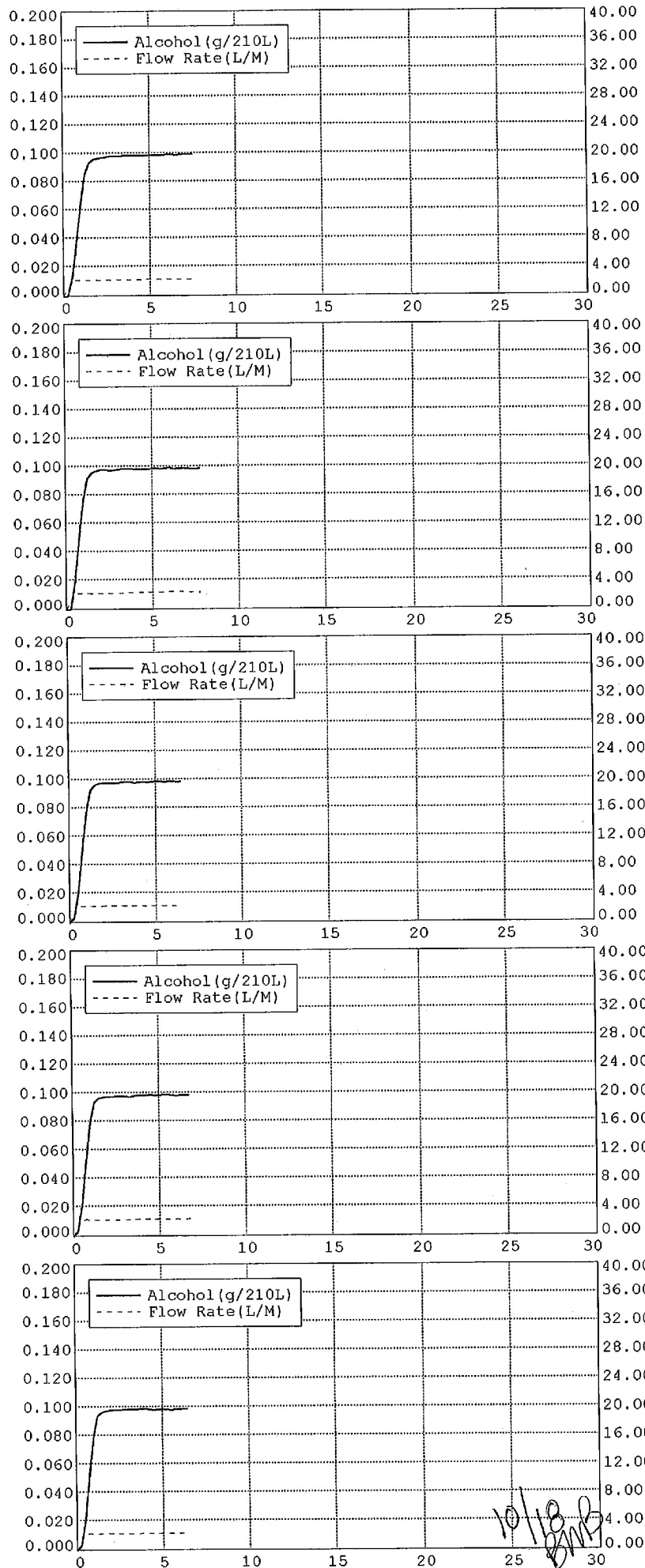
Date: 03/11/2011
Time: 13:12:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.73: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:13
INTERNAL STANDARD	VERIFIED	13:13
EXTERNAL STANDARD	0.100	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.099	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.099	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.099	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.099	13:18
BLANK TEST	0.000	13:19

Average = 0.0992
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

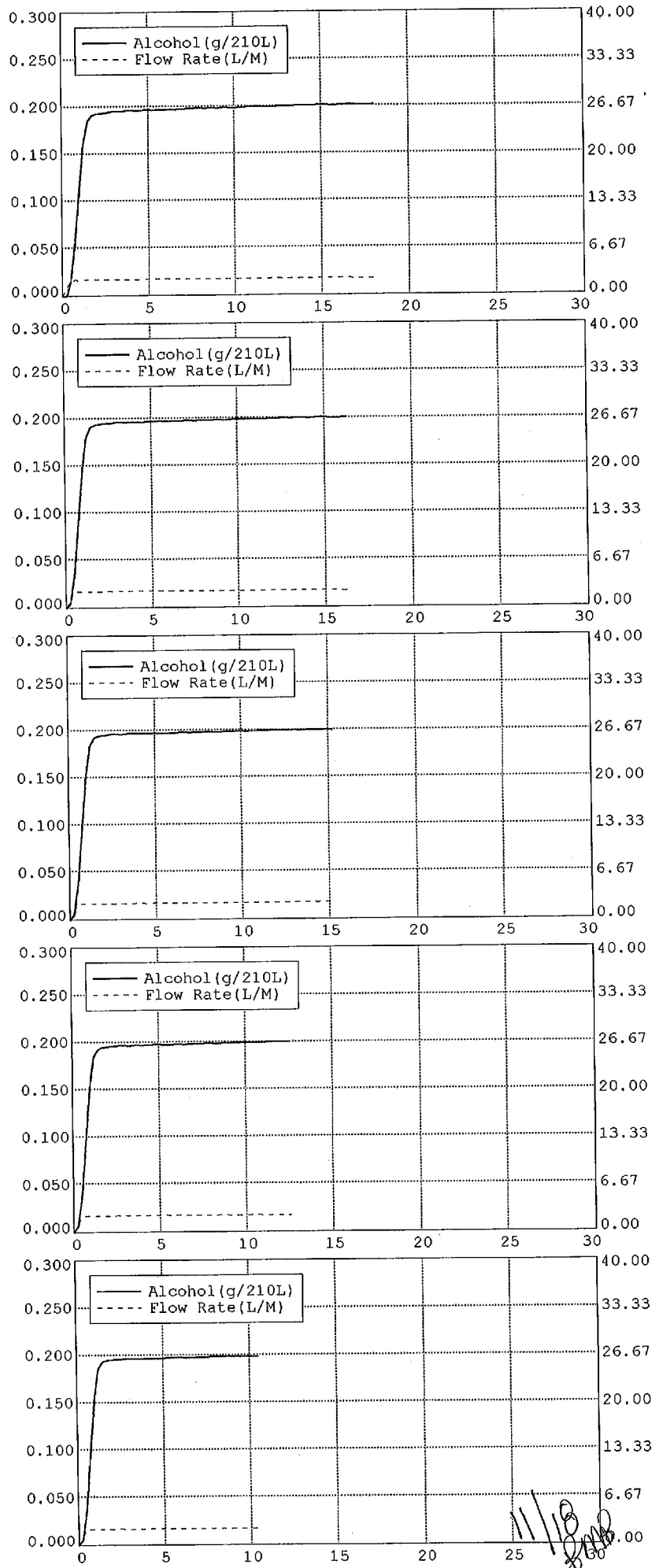
Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 03/11/2011
Time: 13:22:10

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.200
TARGET AT 29.73: 0.198
LOT #: 17610200A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	13:23
INTERNAL STANDARD	VERIFIED	13:23
EXTERNAL STANDARD	0.201	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.201	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.201	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.200	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.200	13:29
BLANK TEST	0.000	13:30

Average = 0.2006
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

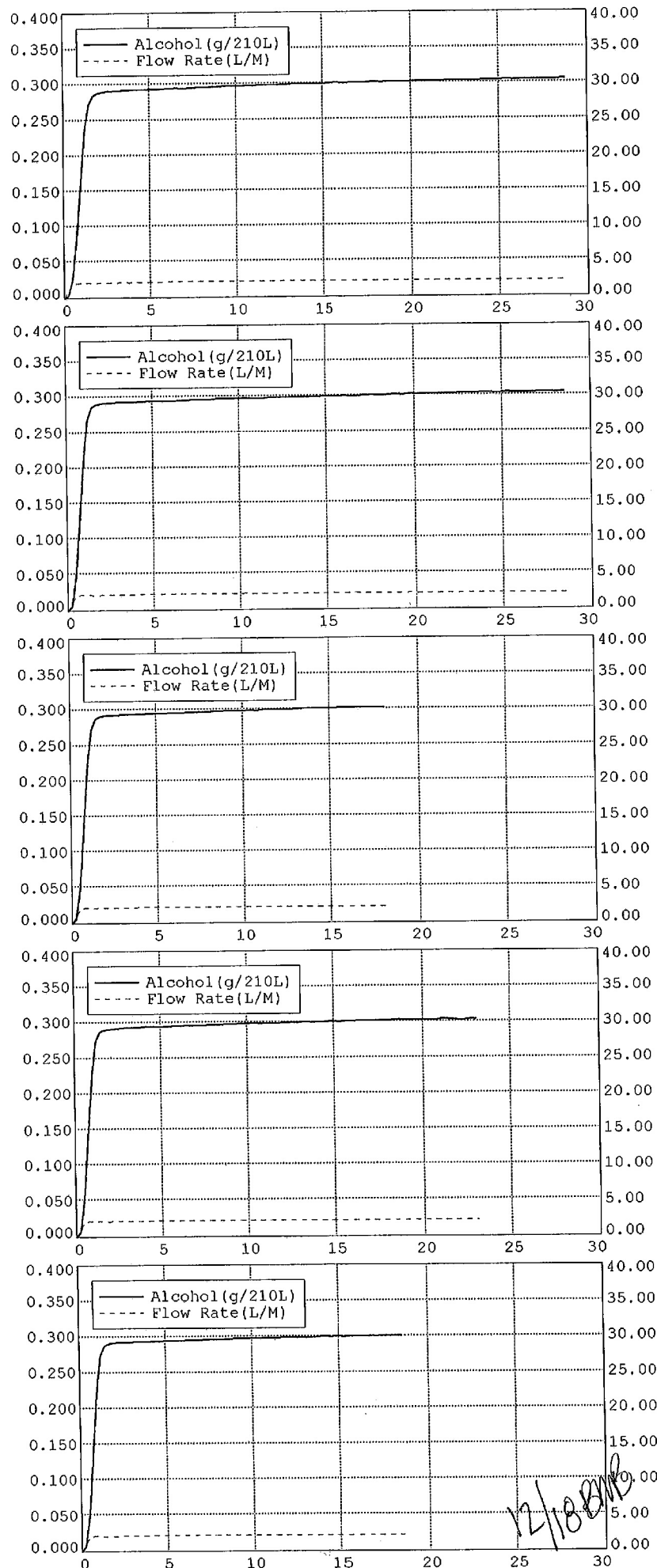
Alaska Department of Public Safety
DATAMASTER dmt; 100348

Date: 03/11/2011
Time: 13:33:46

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
TARGET AT 29.73: 0.298
LOT #: 02811300A4
EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:35
INTERNAL STANDARD	VERIFIED	13:35
EXTERNAL STANDARD	0.305	13:35
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.304	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.302	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.303	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.301	13:42
BLANK TEST	0.000	13:44

Average = 0.3030
Std Dev = 0.0016



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100348

Date: 03/11/2011
 Time: 14:15:52

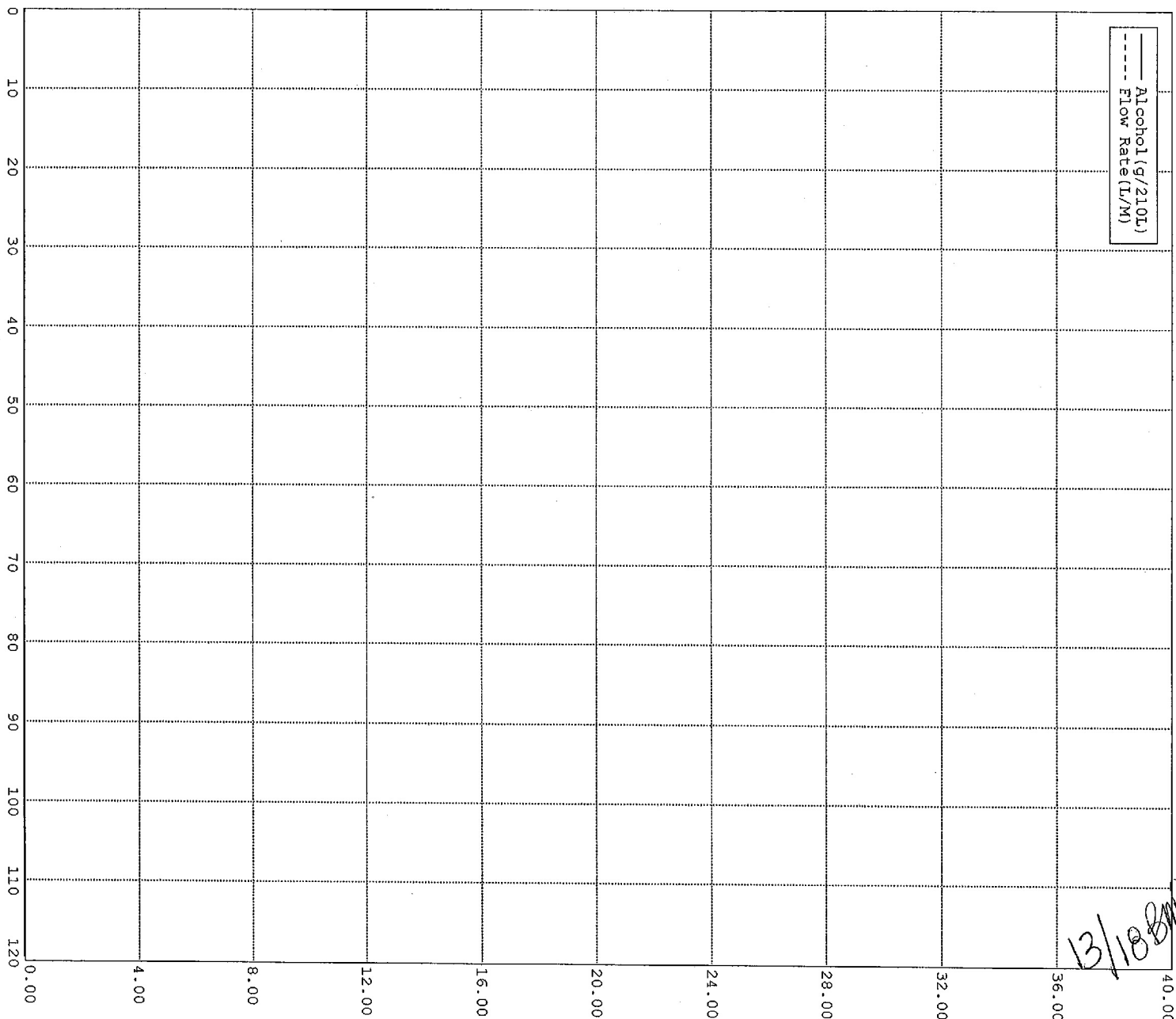
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 FLOW SENSOR ABORT
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.72: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:18
BLANK TEST	0.000	14:18
INTERNAL STANDARD	VERIFIED	14:18
EXTERNAL STANDARD	0.080	14:18
BLANK TEST	0.000	14:19
SUBJECT SAMPLE	INCOMPLETE	14:21

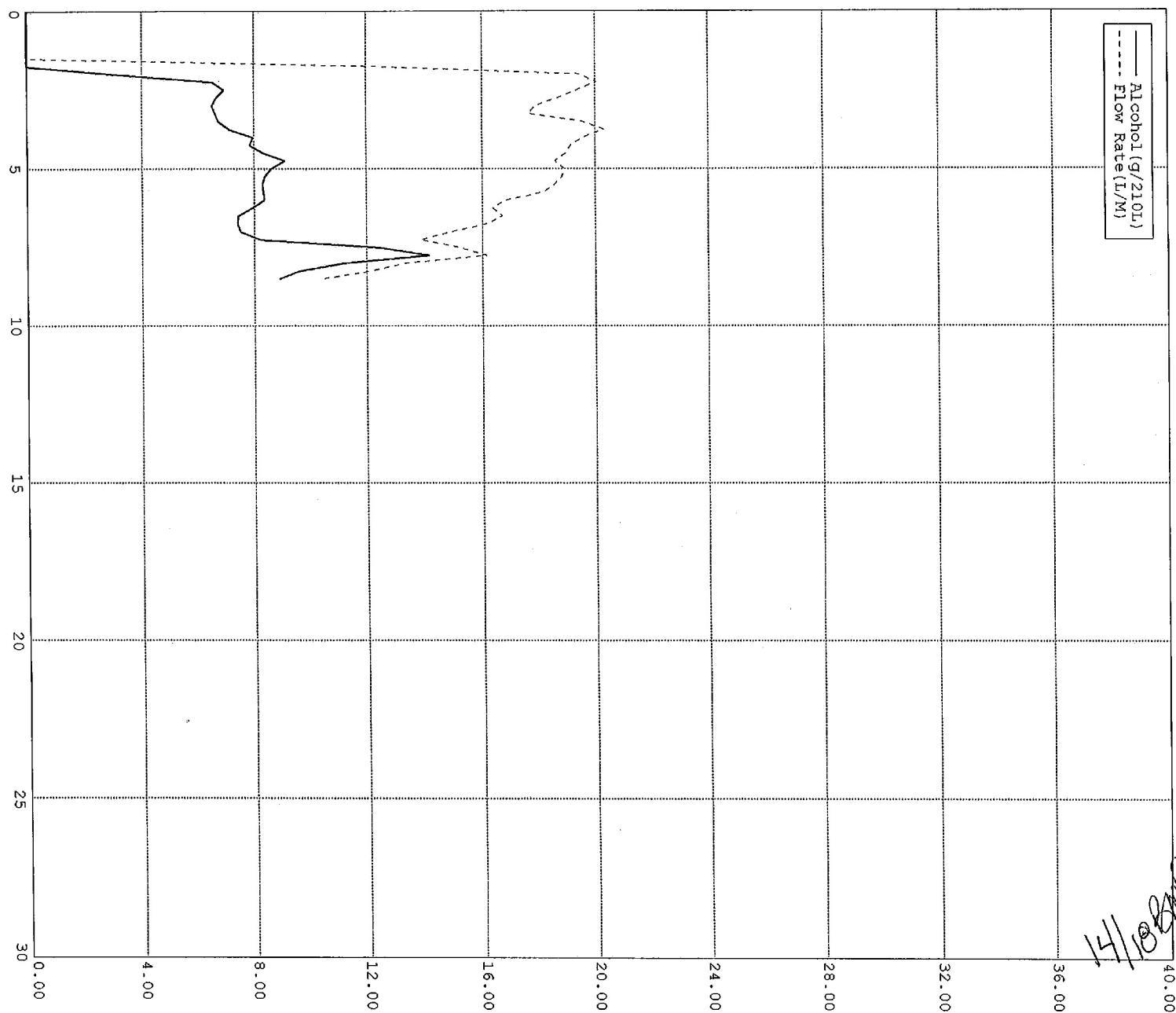


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100348Date: 03/11/2011
Time: 14:24:15SUBJECT NAME:
TEST TEST
LICENSE #: INVALIDOPERATOR NAME:
KNOWN MOUTH ALCOHOL
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.71: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:25
BLANK TEST	0.000	14:26
INTERNAL STANDARD	VERIFIED	14:26
EXTERNAL STANDARD	0.080	14:26
BLANK TEST	0.000	14:27
SUBJECT SAMPLE	Invalid	14:27

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14/03/11
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SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100348

Date: 03/11/2011
 Time: 15:33:27

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

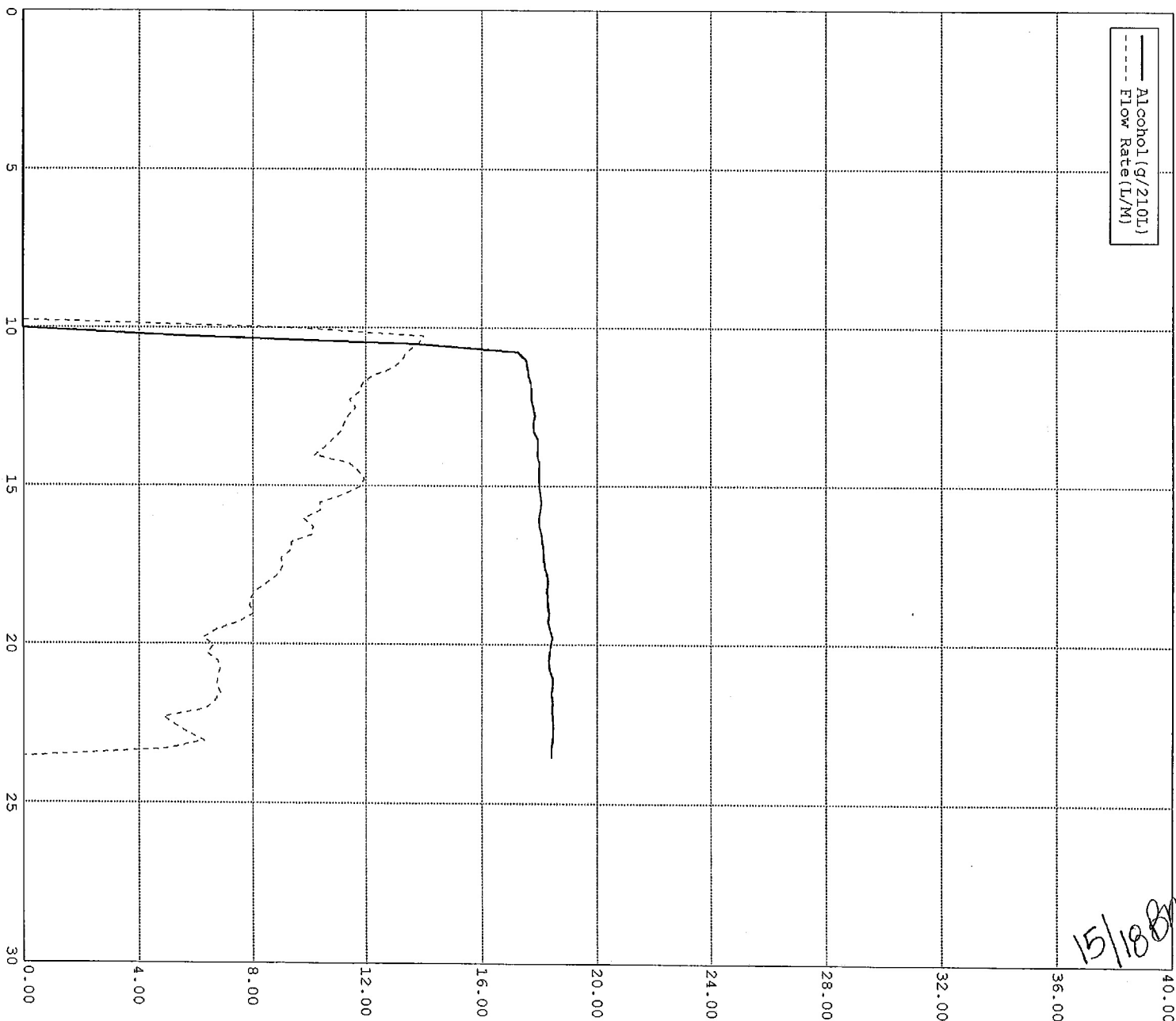
OPERATOR NAME:
 ACETONE AND ETHANOL
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.70: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	15:34
BLANK TEST	0.000	15:34
INTERNAL STANDARD	VERIFIED	15:34
EXTERNAL STANDARD	0.079	15:34
BLANK TEST	0.000	15:35
SUBJECT SAMPLE	INTERFERENCE	15:36

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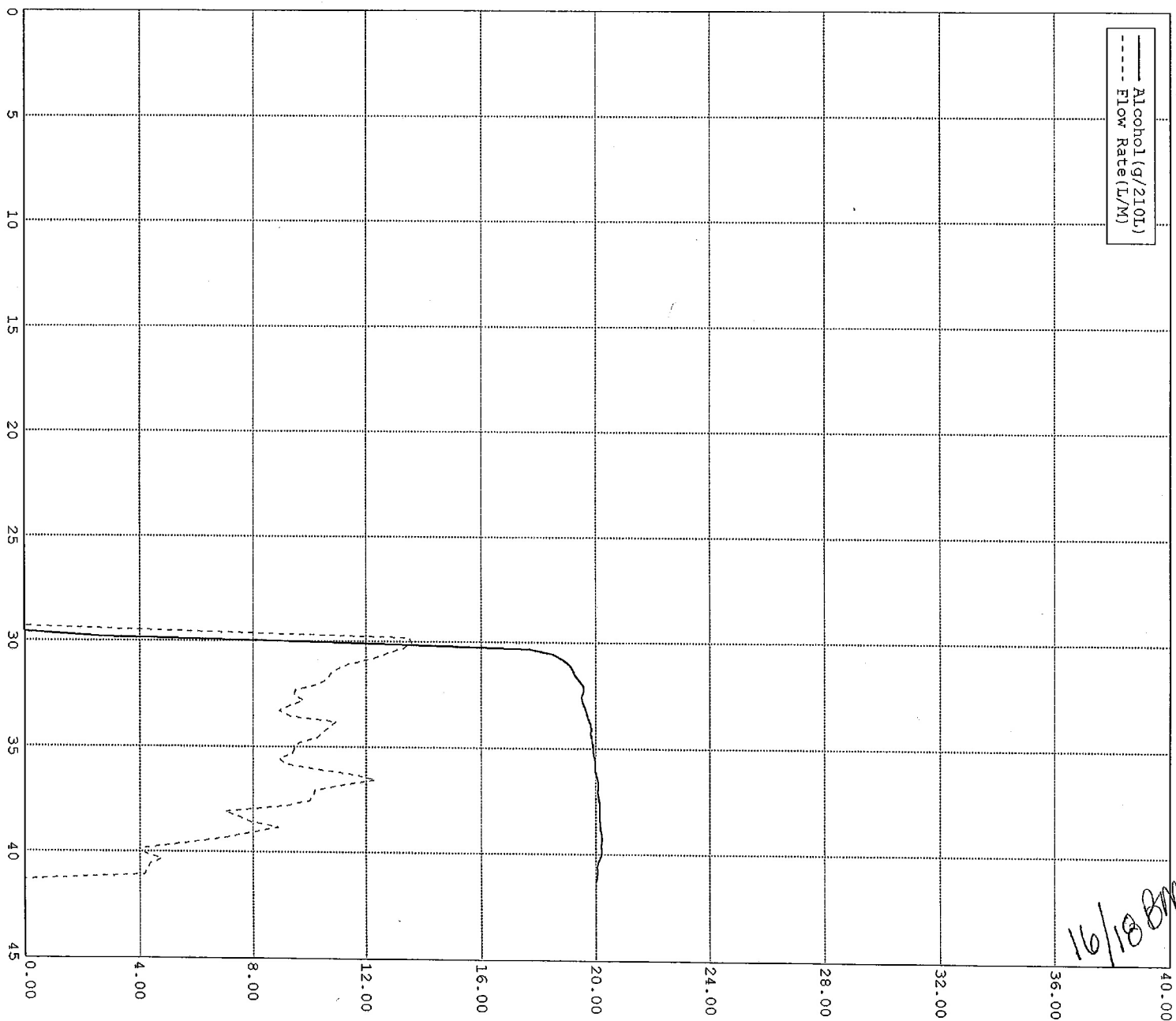
15/18 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100348Date: 03/14/2011
Time: 08:05:27SUBJECT NAME:
TEST TEST
LICENSE #: INTERPEREOPERATOR NAME:
ETHANOL AND ISOPROPANOL
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.26: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	08:06
BLANK TEST	0.000	08:06
INTERNAL STANDARD	VERIFIED	08:06
EXTERNAL STANDARD	0.078	08:06
BLANK TEST	0.000	08:07
SUBJECT SAMPLE	INTERFERENCE	08:08

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 03/11/2011
Time: 14:42:44

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

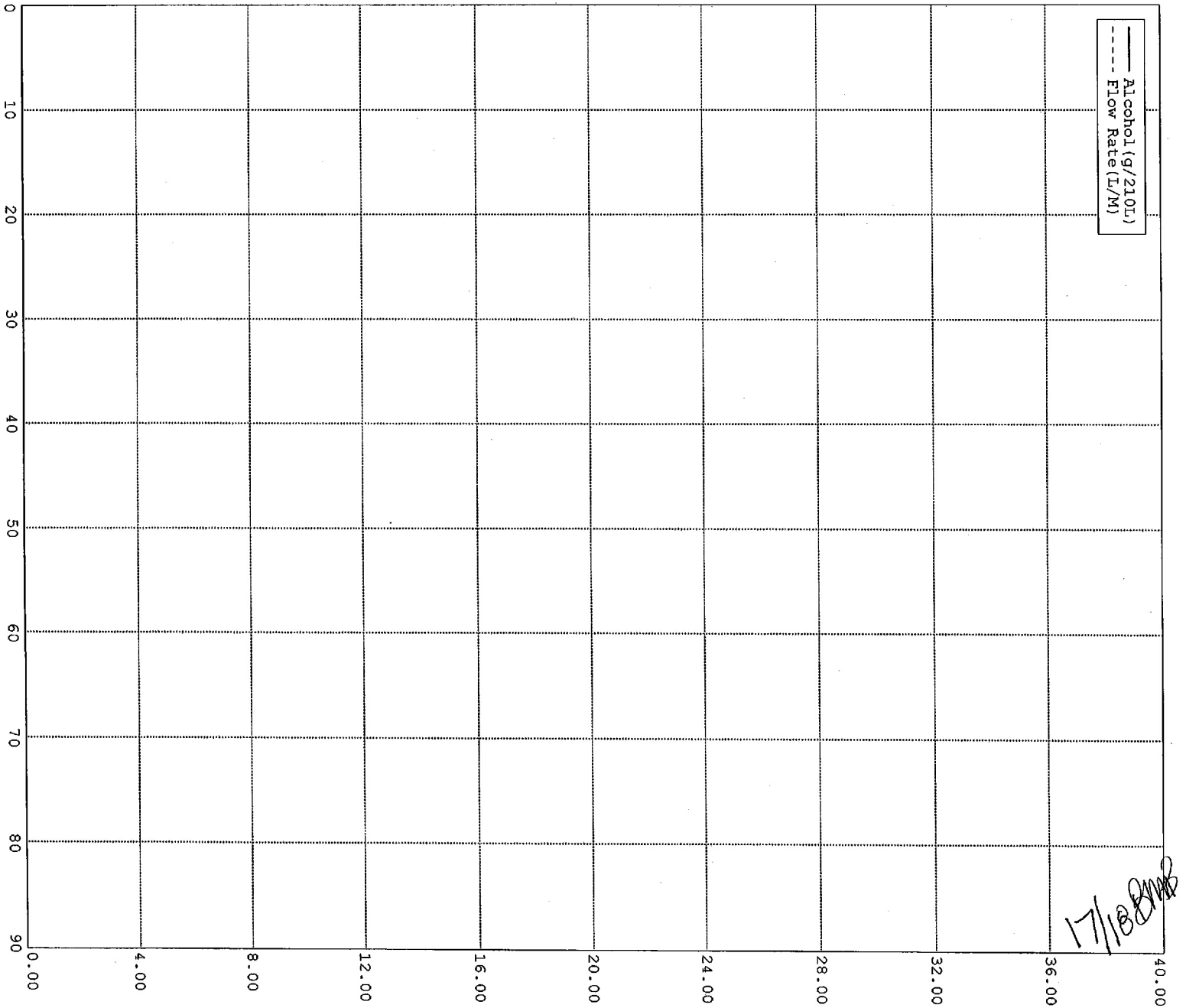
OPERATOR NAME:
RADIO FREQUENCY INTERFERE
OPERATOR'S #: XXXX

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

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

DIAGNOSTIC CHECK	PASSED	14:44
BLANK TEST	0.000	14:44
INTERNAL STANDARD	VERIFIED	14:44
EXTERNAL STANDARD	0.080	14:44
BLANK TEST	0.000	14:45

RFT Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100348

Date: 03/14/2011
 Time: 08:23:00

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

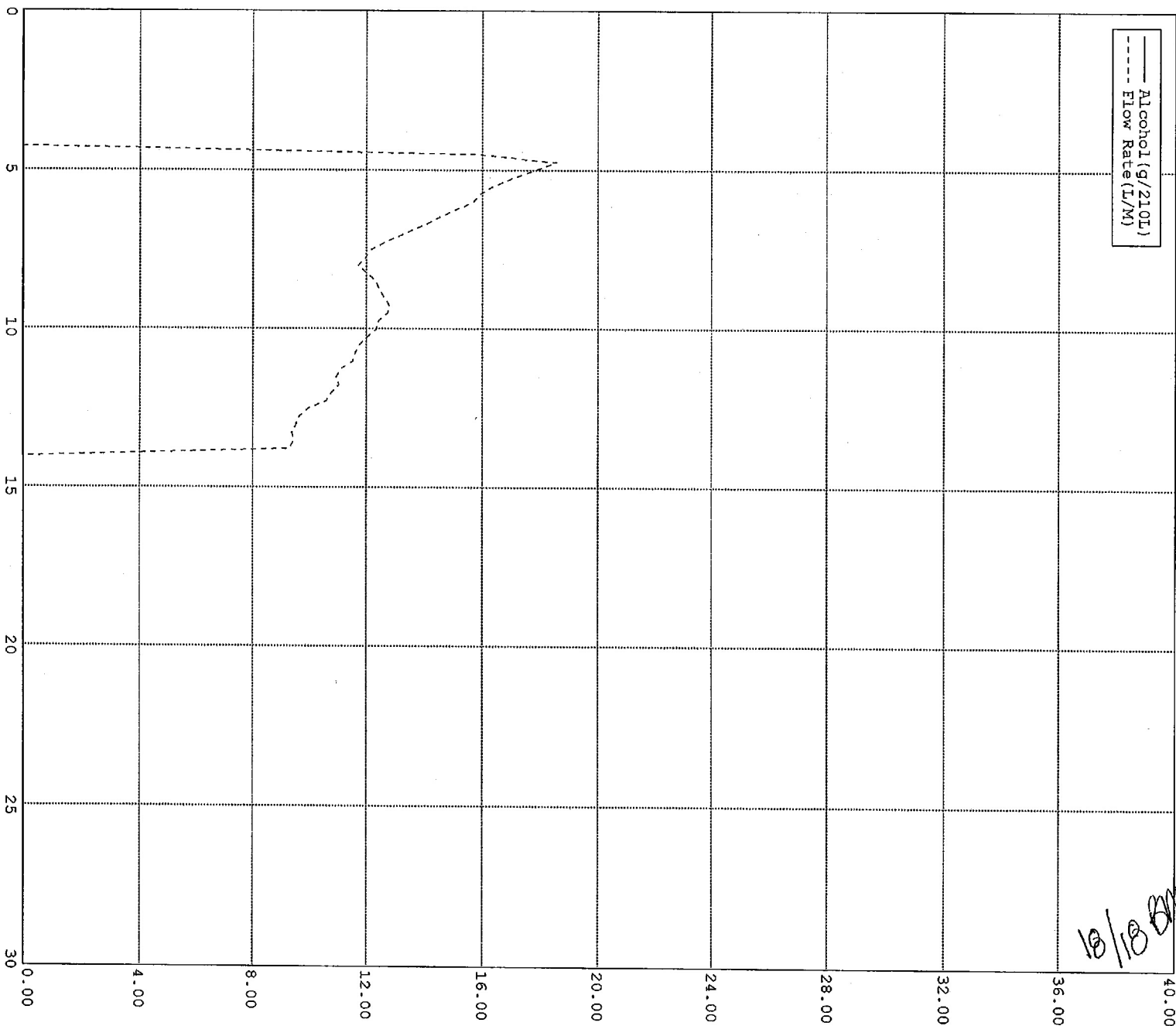
OPERATOR NAME:
 BRANDI M BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.27: 0.078
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	08:24
BLANK TEST	0.000	08:24
INTERNAL STANDARD	VERIFIED	08:24
EXTERNAL STANDARD	0.079	08:24
BLANK TEST	0.000	08:25
SUBJECT SAMPLE	0.000	08:26
BLANK TEST	0.000	08:26
EXTERNAL STANDARD	0.079	08:27
BLANK TEST	0.000	08:28

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10/10 BMF