

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012

Version: DMCEF2012-R1
Status: Active

Instrument S/N 100672 Analyst Brandi Barnett Start Date 4/5/12

Diagnostic Test (attached) ☒

1. Voltage Checks

a. Adjust voltages, if needed ☒

i. Lamp (2.6V Maximum)

ii. Bias (80V)

iii. Cooler (2.0V Maximum)

iv. Chopper Frequency

v. Detector Voltage (-0.100V to 0.100V)

b. Set RFI ☒

c. Adjust barometer reading to match NIST traceable barometer ☒

d. Adjust volume setting, if needed (1.5L +/- 0.1L) ☒

e. Print Technician Screen (attached)

2. Print Calibration Factors (attached)

3. Volume Test - Minimum 1400 mL (1.3L to 1.7L) ☒

4. 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 07611040A4 Exp 03/01/13

iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 03/01/13

iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 03/01/13

v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/13

1. Simulator S/N SD1176 Date Calibrated 8/17/2011

vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/2013

1. Simulator S/N DR4176 Date Calibrated 02/21/12

5. Functional Tests (attached)

a. Incomplete ☒

b. Invalid ☒

c. Interference ☒

i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/2013
5/24/12 BMB

1. Simulator S/N SD1199 Date Calibrated 01/11/2012 11/7/12

ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 5/24/12 BMB

1. Simulator S/N DR 6267 Date Calibrated 01/10/12

iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/13

1. Simulator S/N SD1202 Date Calibrated 8/17/11

d. RFI ☒

6. Verify stylus is calibrated ☒

7. Verify card reader is functional ☒

8. Reset Options ☒

9. Clear Memory ☒

10. Verification of Calibration ☒

11. Non-Drinking Subject Test (attached) ☒

12. Upload ☒

13. Update agency information and polling status in DM Host Calling Program ☒

End Date 4/6/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 04/05/2012
Time: 11:06:16

VERSIONS

DMT: 2.00
PIC: 3.03
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO

Flow Rate = 4.963 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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2/19/2012

Technician Screen

DATAMASTER dmt: 100672

Date: 04/05/2012
Time: 11:11 AM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 47.1°C

Current Barometer 29.8 in
Volume (Ltr) 1.58

Settings

Lamp: 2.02 V
Bias: 80 V
Cooler: 1.91 V
Chopper: 540 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.030 V

3/19 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 09/22/2011
Time: 09:34:34

Ca = 0.1500
CAL = 0.995016 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0031 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.1044 0.0500 <= Xq < 0.2000
a21 = 1.140742 1.050 <= a21 < 1.300
a31 = 0.553722 0.300 <= a31 < 0.800

4/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100672

Date: 04/05/2012
 Time: 11:12:47

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

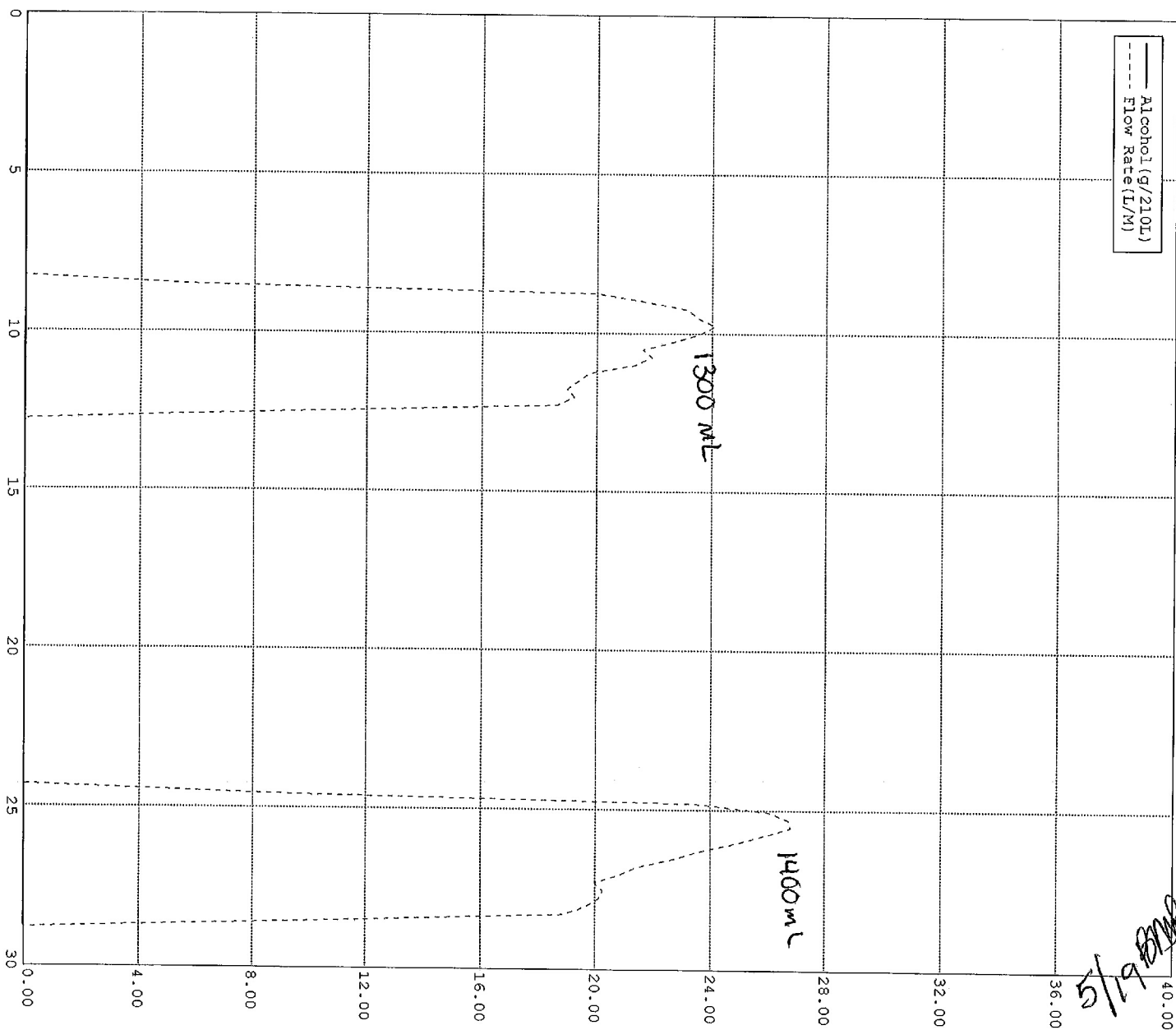
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.84: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:13
BLANK TEST	0.000	11:14
INTERNAL STANDARD	VERIFIED	11:14
EXTERNAL STANDARD	0.079	11:14
BLANK TEST	0.000	11:15
SUBJECT SAMPLE	0.000	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.080	11:17
BLANK TEST	0.000	11:17

Brandi Barnett



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dnt: 100672

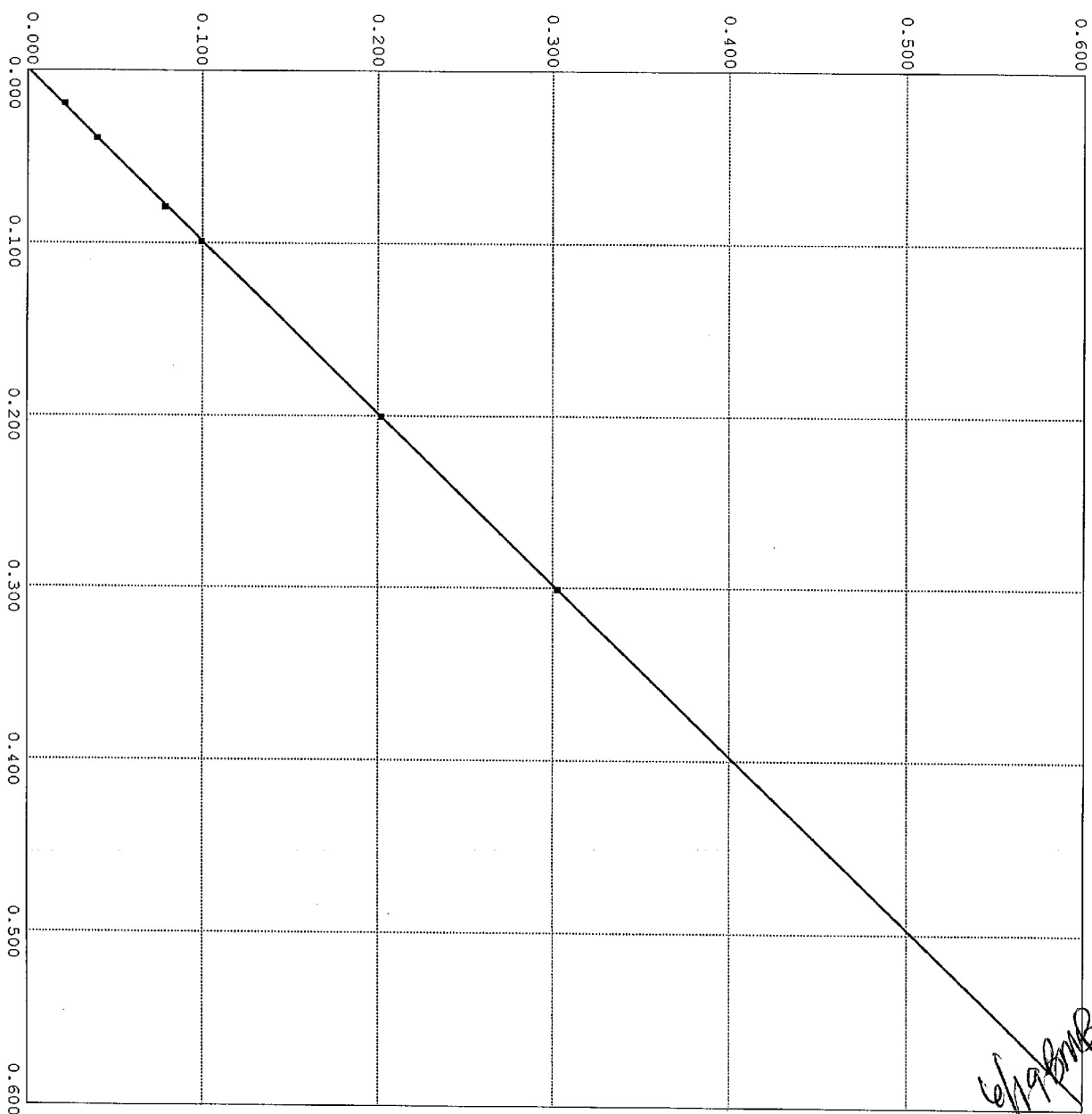
Date: 04/05/2012
 Time: 12:24:34

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0218	0.0004
0.039	0.0407	0.0002
0.079	0.0793	0.0004
0.099	0.1003	0.0004
0.200	0.2029	0.0005
0.300	0.3032	0.0002

SLOPE = 1.005472
 R^2 = 0.999919

Handwritten signature/initials



LINEARITY CHECK: Control Test 1

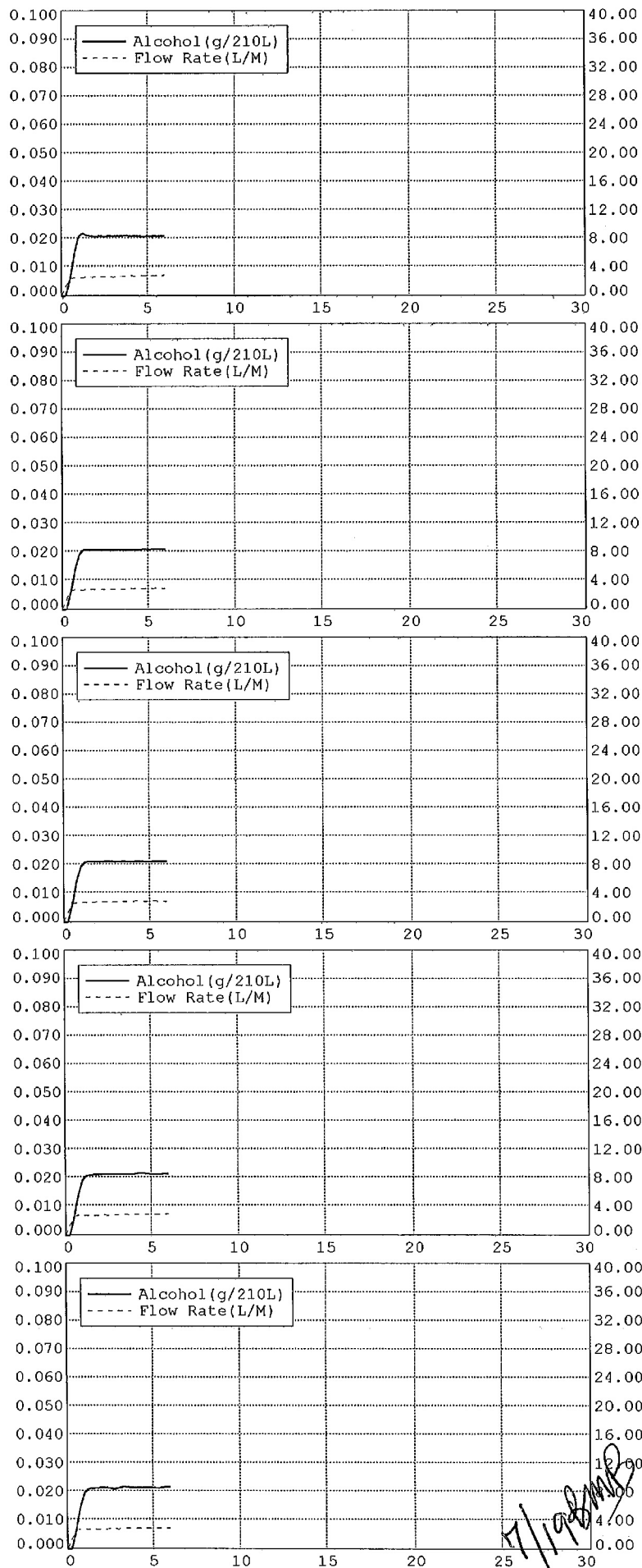
Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 04/05/2012
Time: 12:24:35

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.88: 0.019
LOT #: 15210020A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	12:26
INTERNAL STANDARD	VERIFIED	12:26
EXTERNAL STANDARD	0.021	12:26
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.021	12:27
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.022	12:28
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.022	12:29
BLANK TEST	0.000	12:30
EXTERNAL STANDARD	0.022	12:30
BLANK TEST	0.000	12:31

Average = 0.0218
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100672

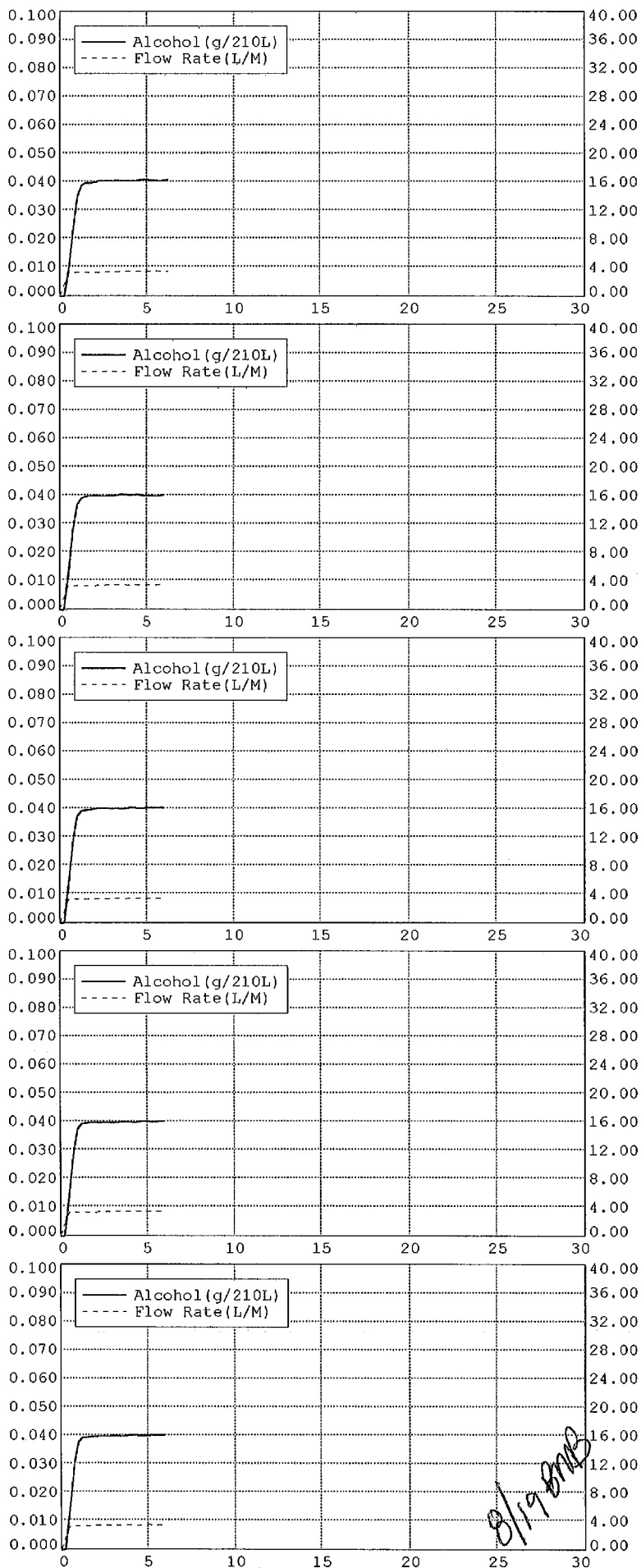
Date: 04/05/2012
Time: 12:37:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.88: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:39
INTERNAL STANDARD	VERIFIED	12:39
EXTERNAL STANDARD	0.041	12:39
BLANK TEST	0.000	12:40
EXTERNAL STANDARD	0.040	12:40
BLANK TEST	0.000	12:41
EXTERNAL STANDARD	0.040	12:41
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.040	12:43
BLANK TEST	0.000	12:43
EXTERNAL STANDARD	0.040	12:44
BLANK TEST	0.000	12:45

Average = 0.0407
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

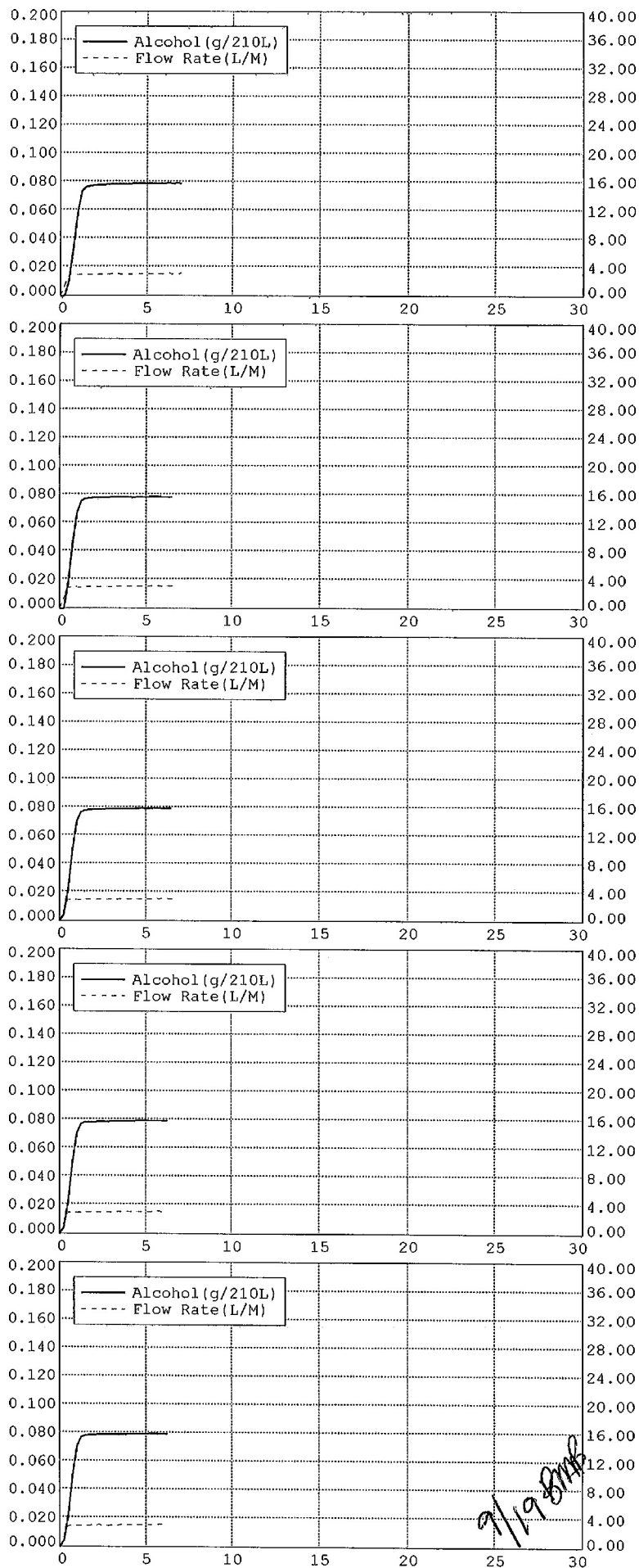
Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 04/05/2012
Time: 12:52:54

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.89: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:54
INTERNAL STANDARD	VERIFIED	12:54
EXTERNAL STANDARD	0.079	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.078	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.079	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.079	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.079	12:59
BLANK TEST	0.000	12:59

Average = 0.0793
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

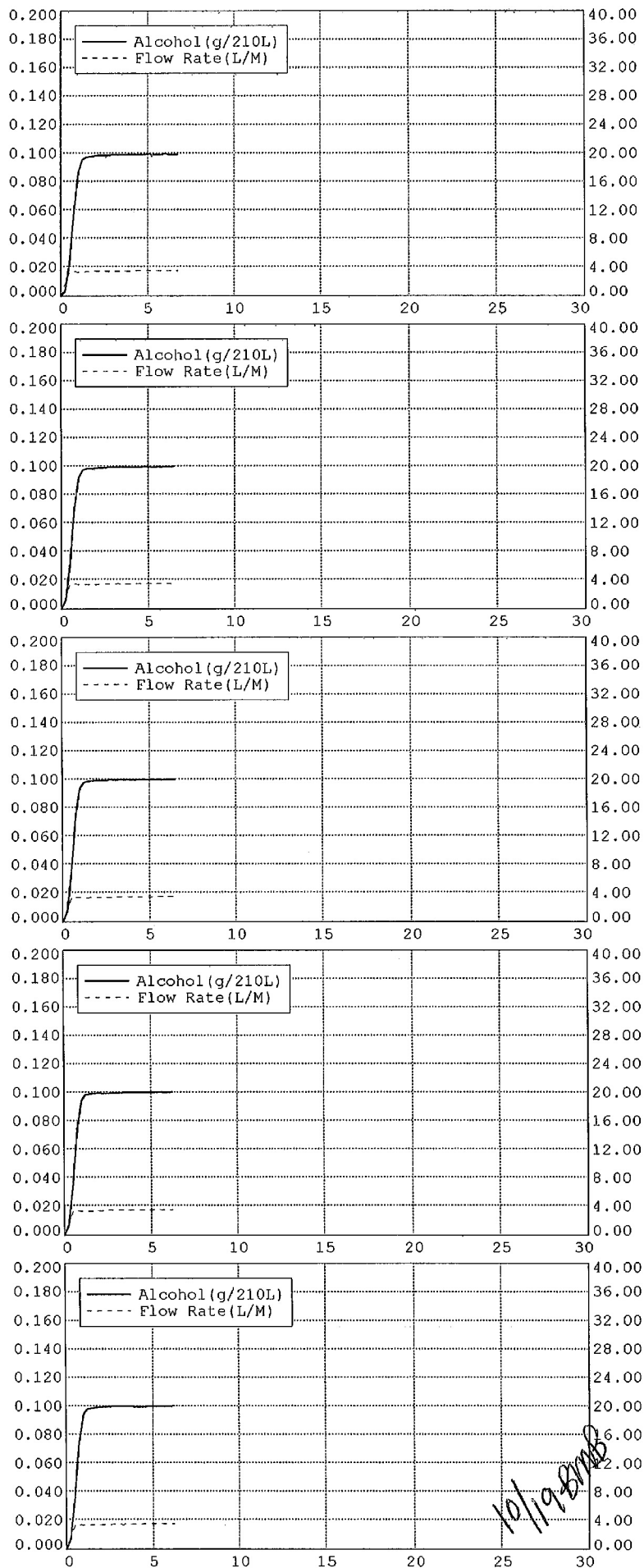
Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 04/05/2012
Time: 13:07:26

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.89: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:08
INTERNAL STANDARD	VERIFIED	13:08
EXTERNAL STANDARD	0.099	13:09
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.100	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.100	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.100	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.100	13:13
BLANK TEST	0.000	13:14

Average = 0.1003
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100672

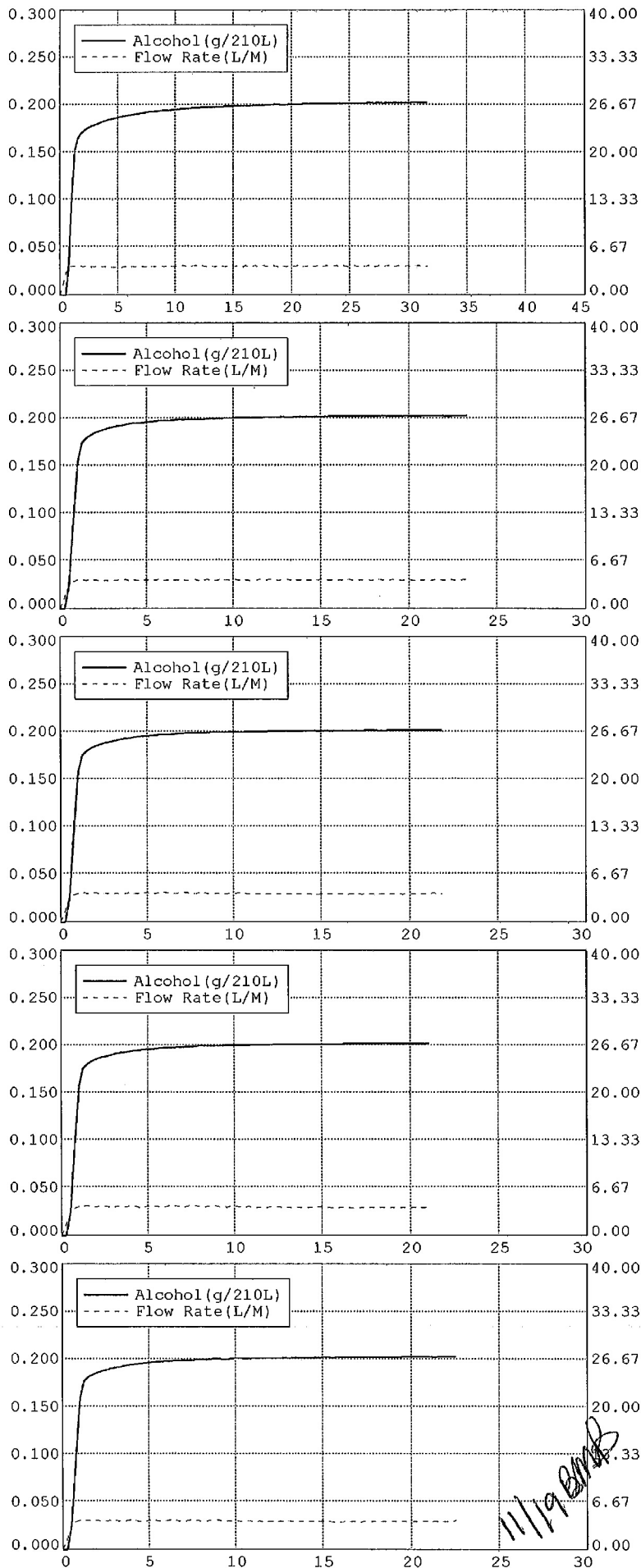
Date: 04/05/2012
Time: 13:17:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: 11120
EXPIRATION: 07/19/2013

BLANK TEST	0.000	13:18
INTERNAL STANDARD	VERIFIED	13:18
EXTERNAL STANDARD	0.203	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.203	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.202	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.202	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.203	13:24
BLANK TEST	0.000	13:25

Average = 0.2029
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100672

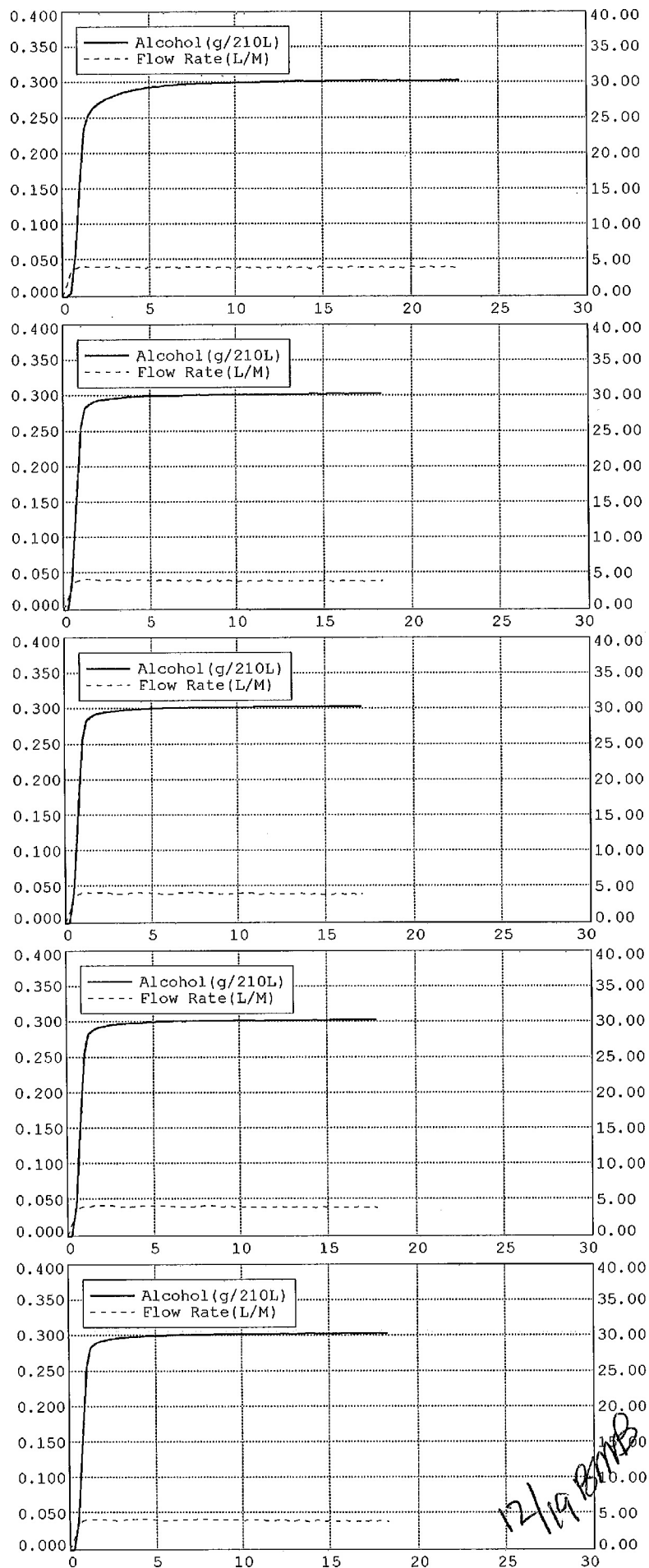
Date: 04/05/2012
Time: 13:43:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 11110
EXPIRATION: 07/13/2013

BLANK TEST	0.000	13:44
INTERNAL STANDARD	VERIFIED	13:44
EXTERNAL STANDARD	0.303	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.303	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.303	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.303	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.303	13:50
BLANK TEST	0.000	13:51

Average = 0.3032
Std Dev = 0.0002



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 04/05/2012
Time: 14:31:13

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

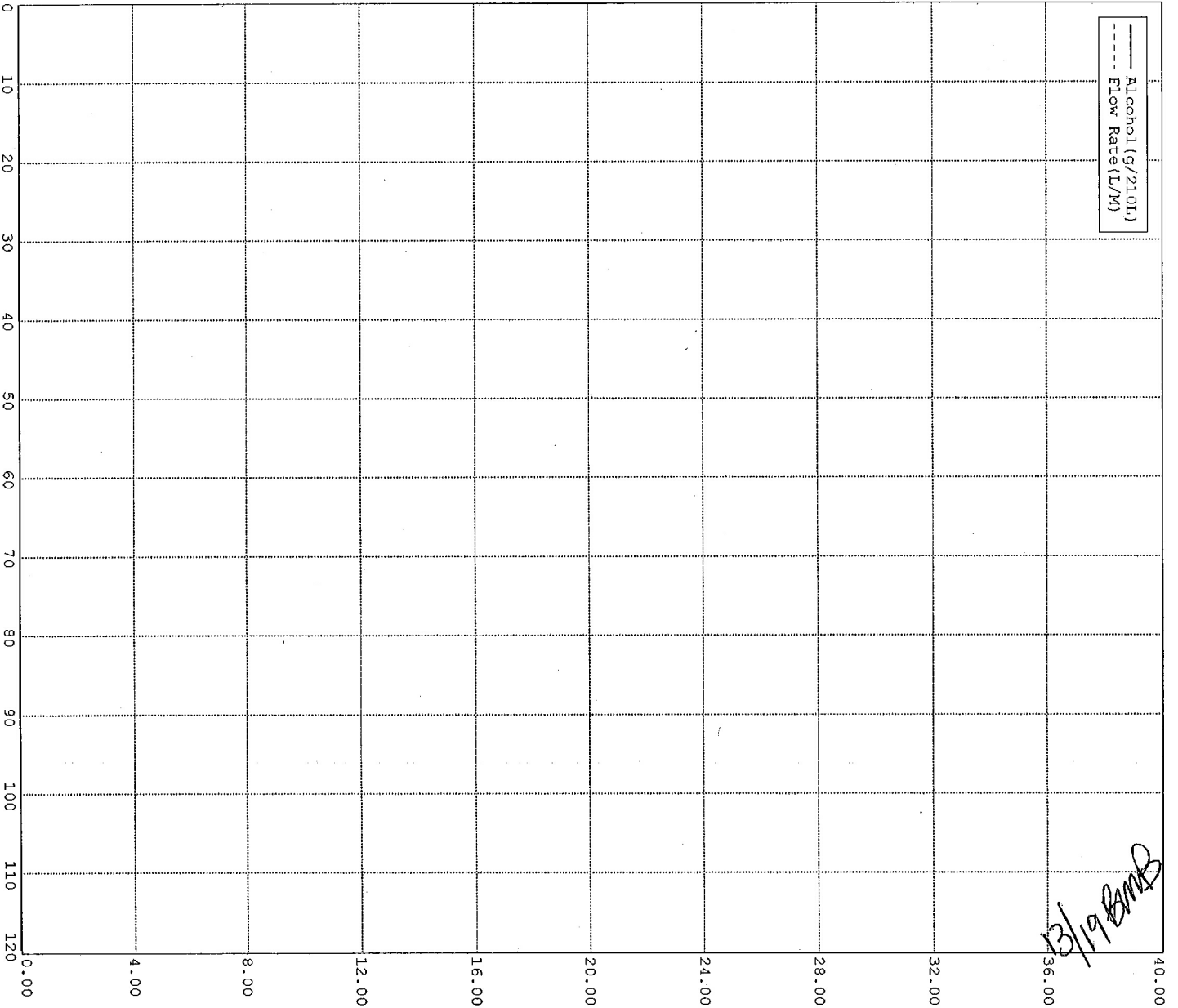
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.88: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 14:32
INTERNAL STANDARD	0.000 14:33
EXTERNAL STANDARD	0.078 14:33
BLANK TEST	0.000 14:34
SUBJECT SAMPLE	INCOMPLETE 14:36

BMB

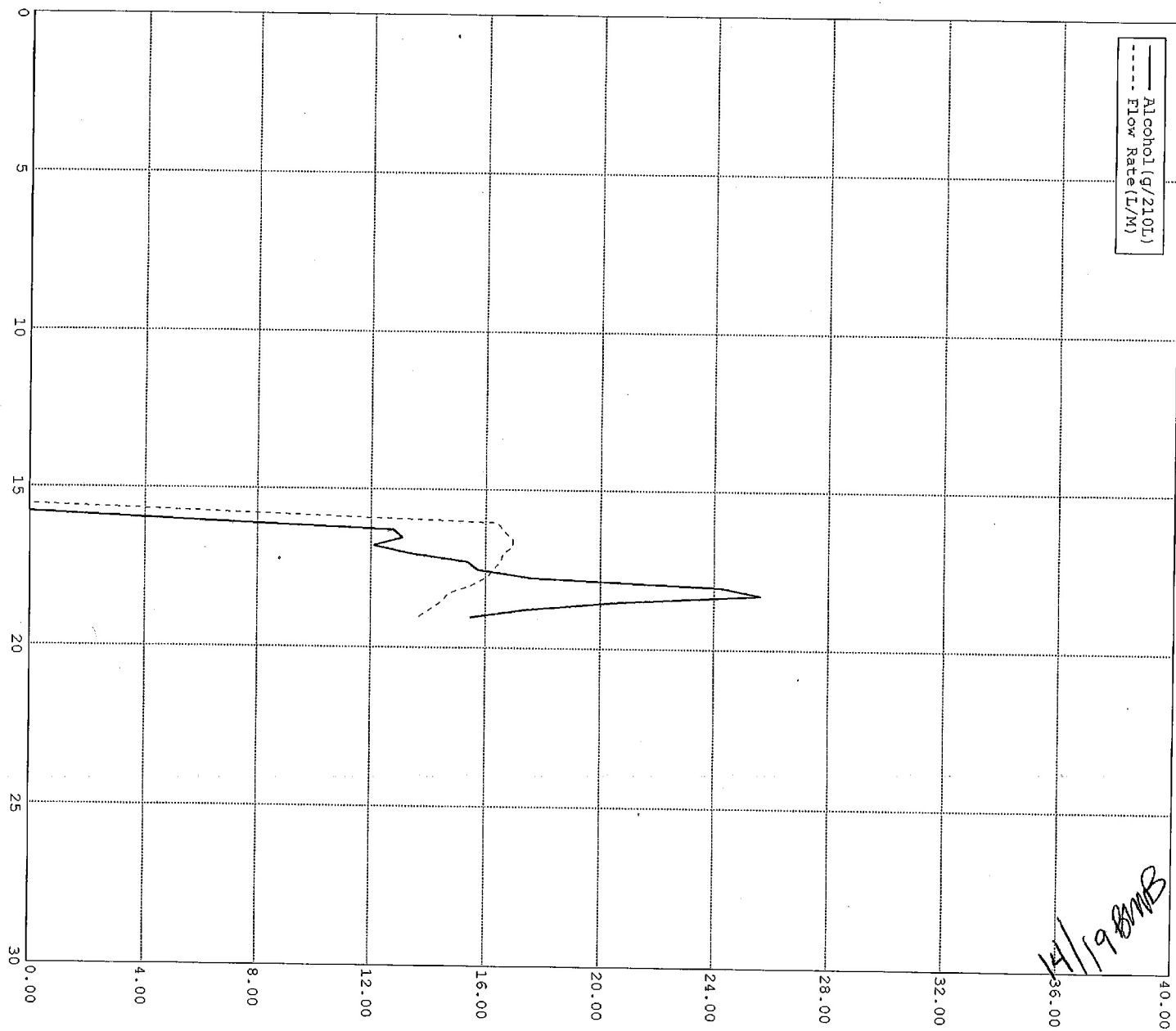


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100672Date: 04/05/2012
Time: 14:39:49SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INVALID KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.86: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 14:40
INTERNAL STANDARD	0.000 14:40
EXTERNAL STANDARD	VERIFIED 14:41
BLANK TEST	0.079 14:41
SUBJECT SAMPLE	0.000 14:42
	INVALID 14:42

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 04/05/2012
Time: 14:59:33

SUBJECT NAME:

TEST TEST

LICENSE #: INTERFERENCE

OPERATOR NAME:

BRANDI BARNETT

OPERATOR'S #: 7038

DEPT/AGENCY:

ETHANOL AND ACETONE

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.87: 0.079

LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

Xq = 0.104 (0.67%)

EXTERNAL STANDARD

X[1] = 0.0799 (0.0004) (0.0032)

BLANK TEST

SUBJECT SAMPLE INTERFERENCE

X[1] = 0.0850 (-0.0150) (0.0009)

PASSED 15:01

0.000 15:01

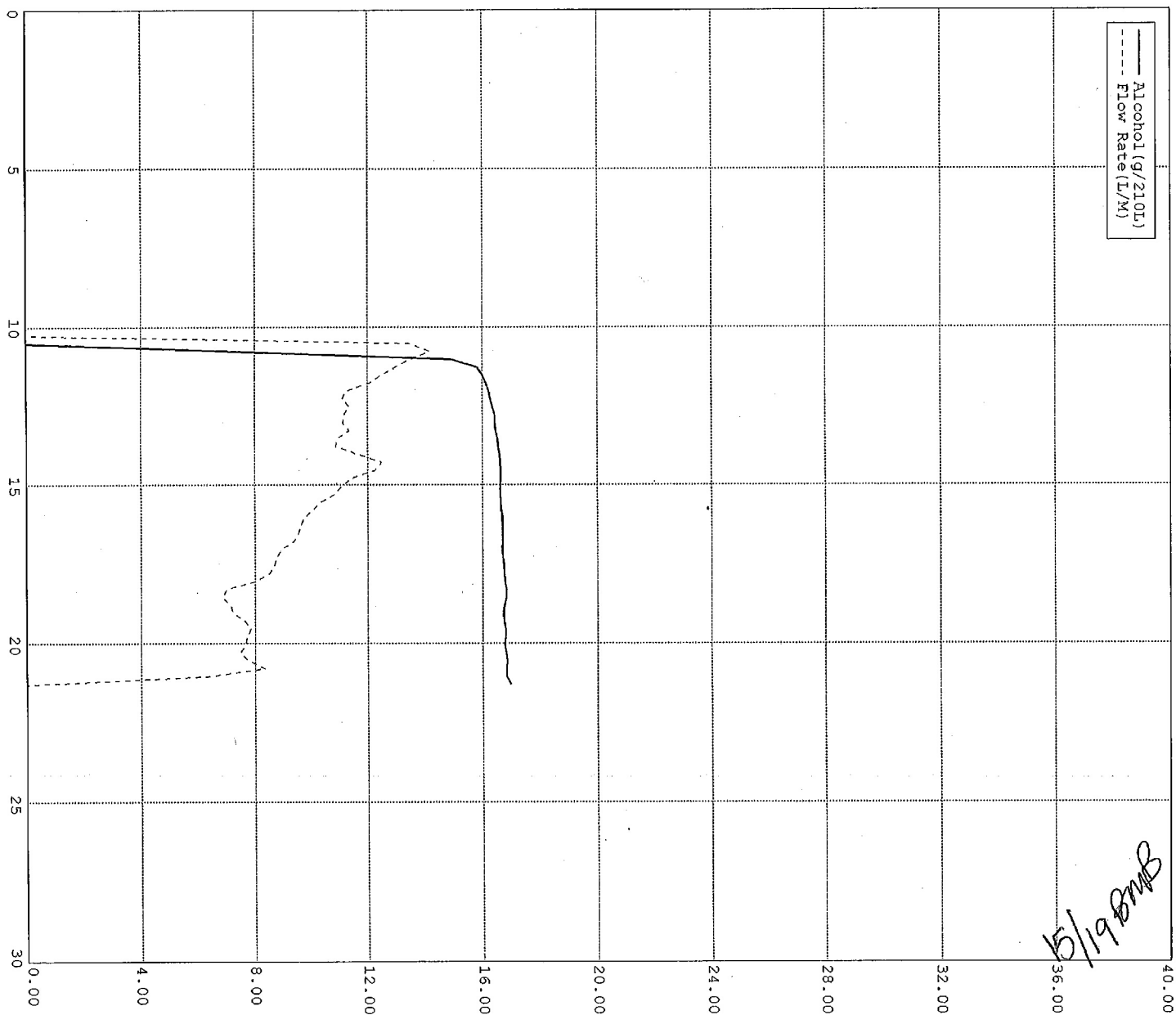
VERIFIED 15:01

0.079 15:01

0.000 15:02

15:02

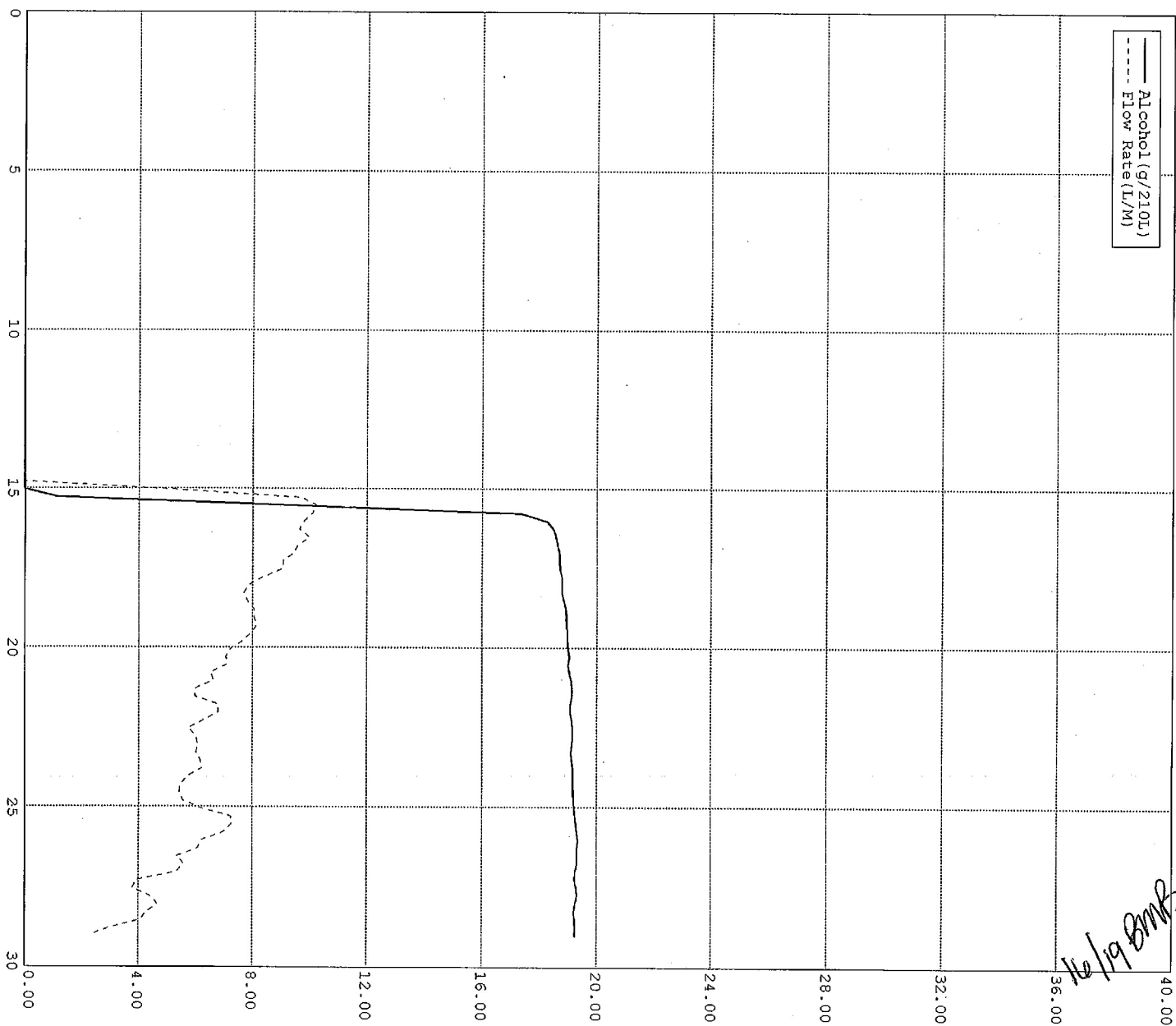
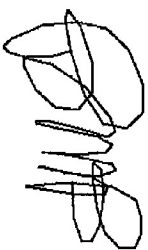
BNB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100672Date: 04/05/2012
Time: 15:08:32SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERENCEOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
ETHANOL AND ISOPROPANOL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:09
BLANK TEST	0.000	15:09
INTERNAL STANDARD	VERIFIED	15:09
Xg = 0.103 (1.18%)	0.078	15:10
EXTERNAL STANDARD	X[1] = 0.0789 (0.0007)	0.0036
BLANK TEST	0.000	15:10
SUBJECT SAMPLE	INTERFERENCE	15:11
X[1] = 0.0963 (-0.0217)	(0.0010)	



SUBJECT TEST

 Alaska Department of Public Safety
 DATA MASTER dnt: 100672

Date: 04/05/2012
 Time: 14:51:46

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERENCE

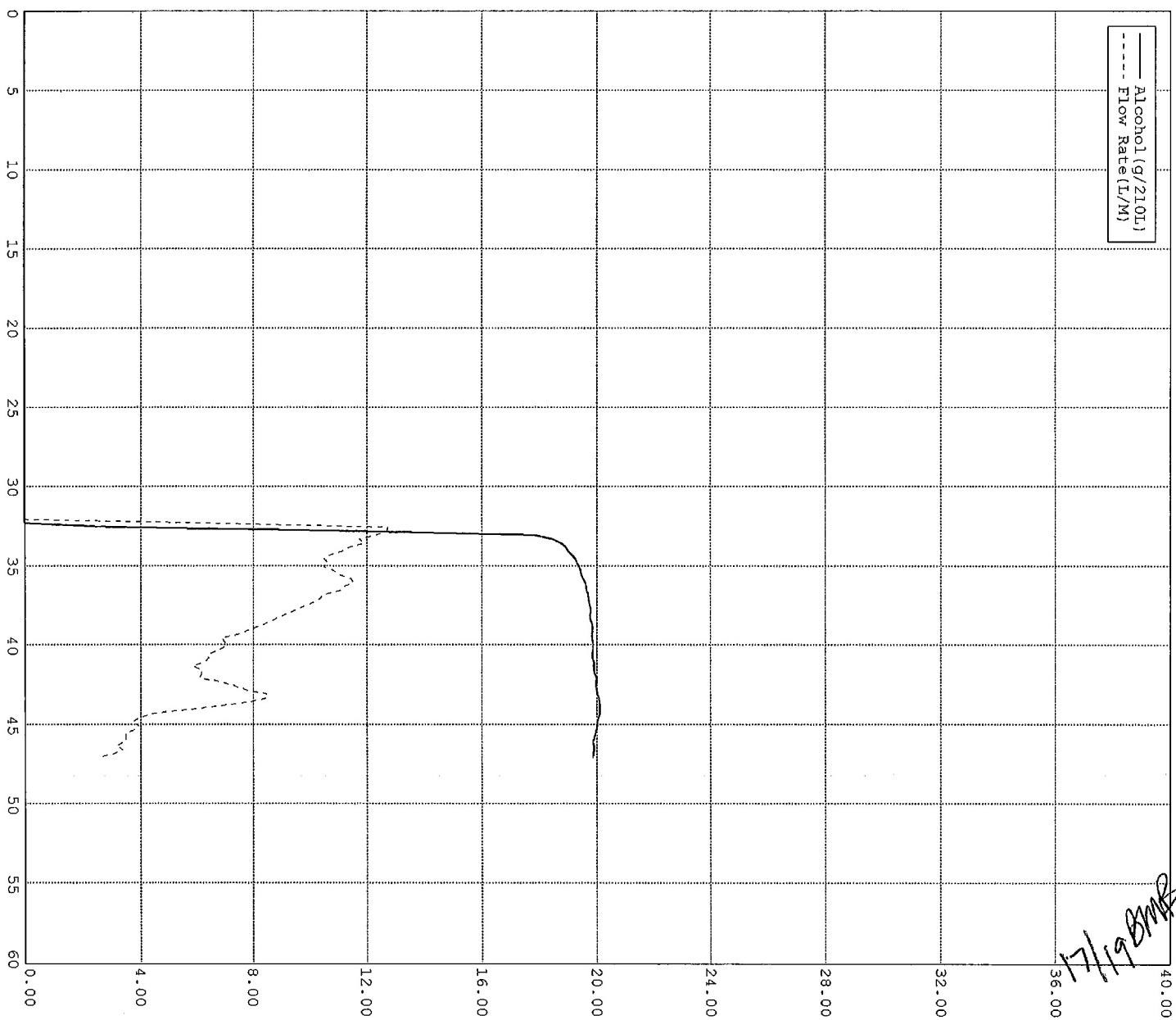
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.86: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:53
BLANK TEST	0.000	14:53
INTERNAL STANDARD	VERIFIED	14:53
Xg = 0.103 (1.51%)		
EXTERNAL STANDARD	0.078	14:53
X[1] = 0.0789 (0.0001)	(0.0030)	
BLANK TEST	0.000	14:54
SUBJECT SAMPLE (Vol=1.96L)	0.099	14:55
X[1] = 0.0997 (-0.0017)	(-0.0001)	
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.079	14:56
X[1] = 0.0797 (0.0000)	(0.0022)	
BLANK TEST	0.000	14:57

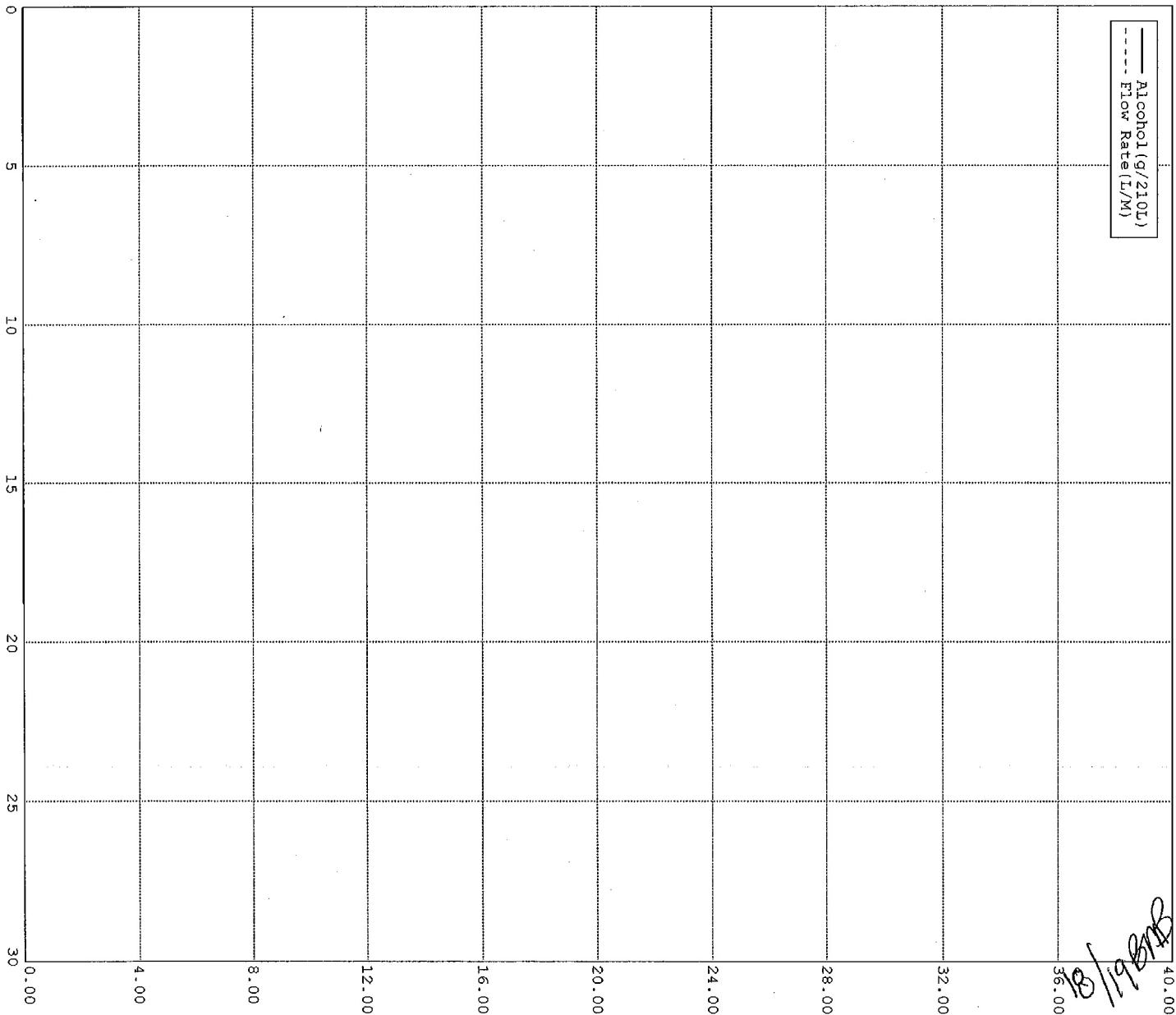
BBMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100672Date: 04/05/2012
Time: 14:44:29SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
RADIO FREQUENCY INTERFERENCE
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.87: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 14:45
INTERNAL STANDARD VERIFIED 14:46
EXTERNAL STANDARD 0.079 14:46
BLANK TEST 0.000 14:47

RFI DETECTED

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

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100672

Date: 04/05/2012
 Time: 16:22:40

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

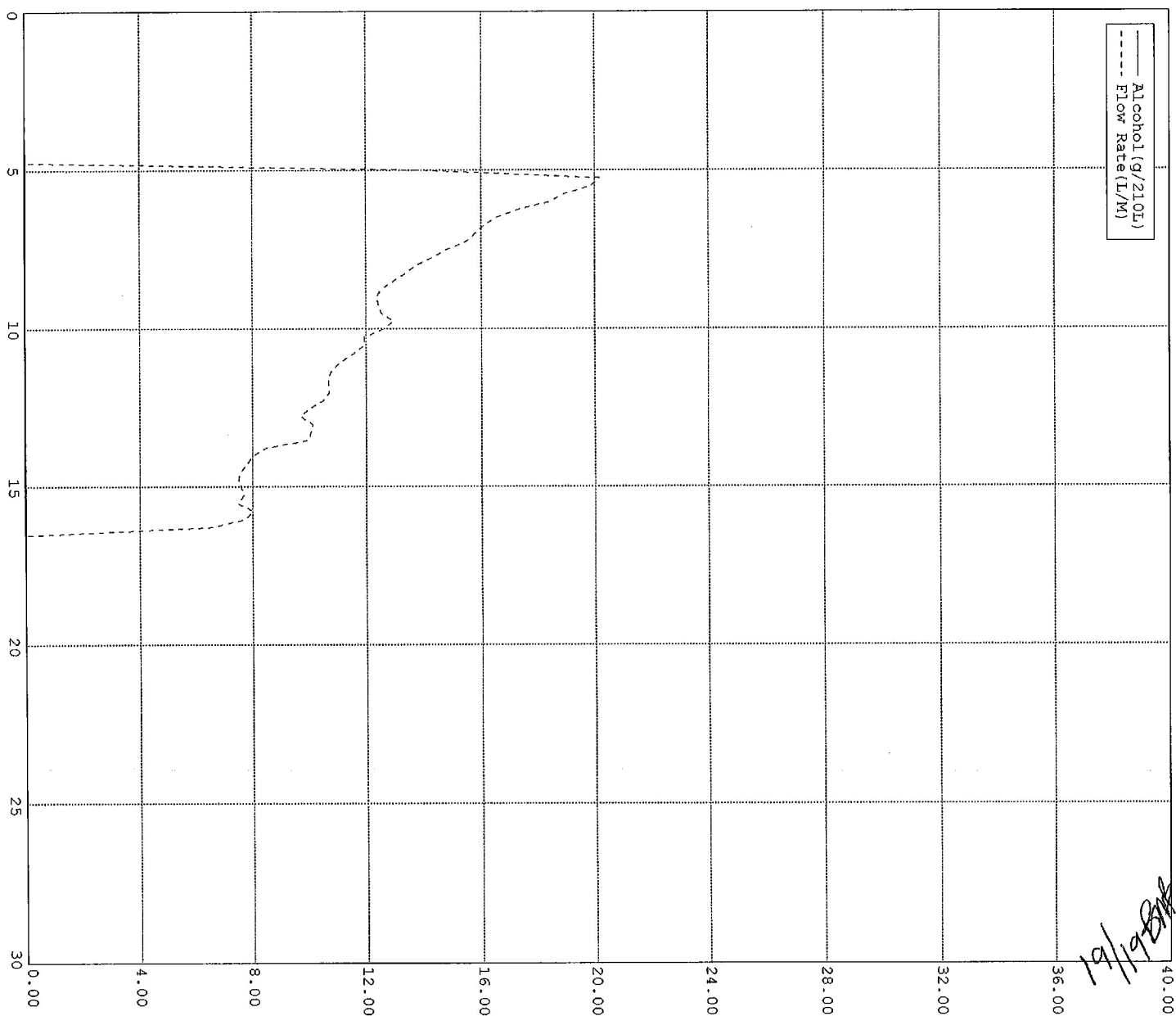
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.84: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	16:23
BLANK TEST	0.000	16:23
INTERNAL STANDARD	0.079	16:24
EXTERNAL STANDARD	0.000	16:25
BLANK TEST	0.000	16:25
SUBJECT SAMPLE	0.000	16:26
BLANK TEST	0.079	16:26
EXTERNAL STANDARD	0.000	16:27

Brandi Barnett



Final page for report

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11/19/2013