

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100400 Analyst Brandi Start Date 5/14/13
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 1600 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used i. 0.020g/210L Mnf ILMO Lot 00813020A1 Exp 03/01/15ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 03/01/15iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 03/01/2014iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 03/01/15v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/131. Simulator S/N DR4162 Date Calibrated 10/09/2012vi. 0.300g/210L Mnf Guth Lot ~~1250~~ 12050 Exp 03/21/141. Simulator S/N DR4163 Date Calibrated 10/08/12

5. Functional Tests (attached)

a. Incomplete b. Invalid c. Interference i. Acetone - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/131. Simulator S/N DR5298 Date Calibrated 10/8/12ii. Isopropanol - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/131. Simulator S/N SD1202 Date Calibrated 10/9/12iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/131. Simulator S/N SD1176 Date Calibrated 10/9/12d. 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 AEnd Date 5/15/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 05/14/2013
Time: 09:14:37

VERSIONS
DMT: 2.00
PIC: 3.02
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 46.3°C PASSED

PUMP INFO
Flow Rate = 4.612 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

Technician Screen

DATAMASTER dmt: 100400

Date: 05/14/2013

Time: 9:25 AM

Temperatures (°C)

Sample Cell: 49.5°C

Breath Tube: 46.6°C

Current Barometer: 29.1 in

Volume (Ltr) 1.42

Settings

Lamp: 1.66 V

Bias: 78 V

Cooler: 1.67 V

Chopper: 521 Hz

Voltages (V)

Flow: 1.05 V

Detector: -0.014 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dnt: 100400

Date: 02/19/2013
Time: 09:50:53

Ca = 0.1010
CAL = 0.979070 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0037 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.0999 0.0500 <= Xq < 0.2000
a21 = 1.192698 1.050 <= a21 < 1.300
a31 = 0.464521 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100400

Date: 05/14/2013
 Time: 09:27:59

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

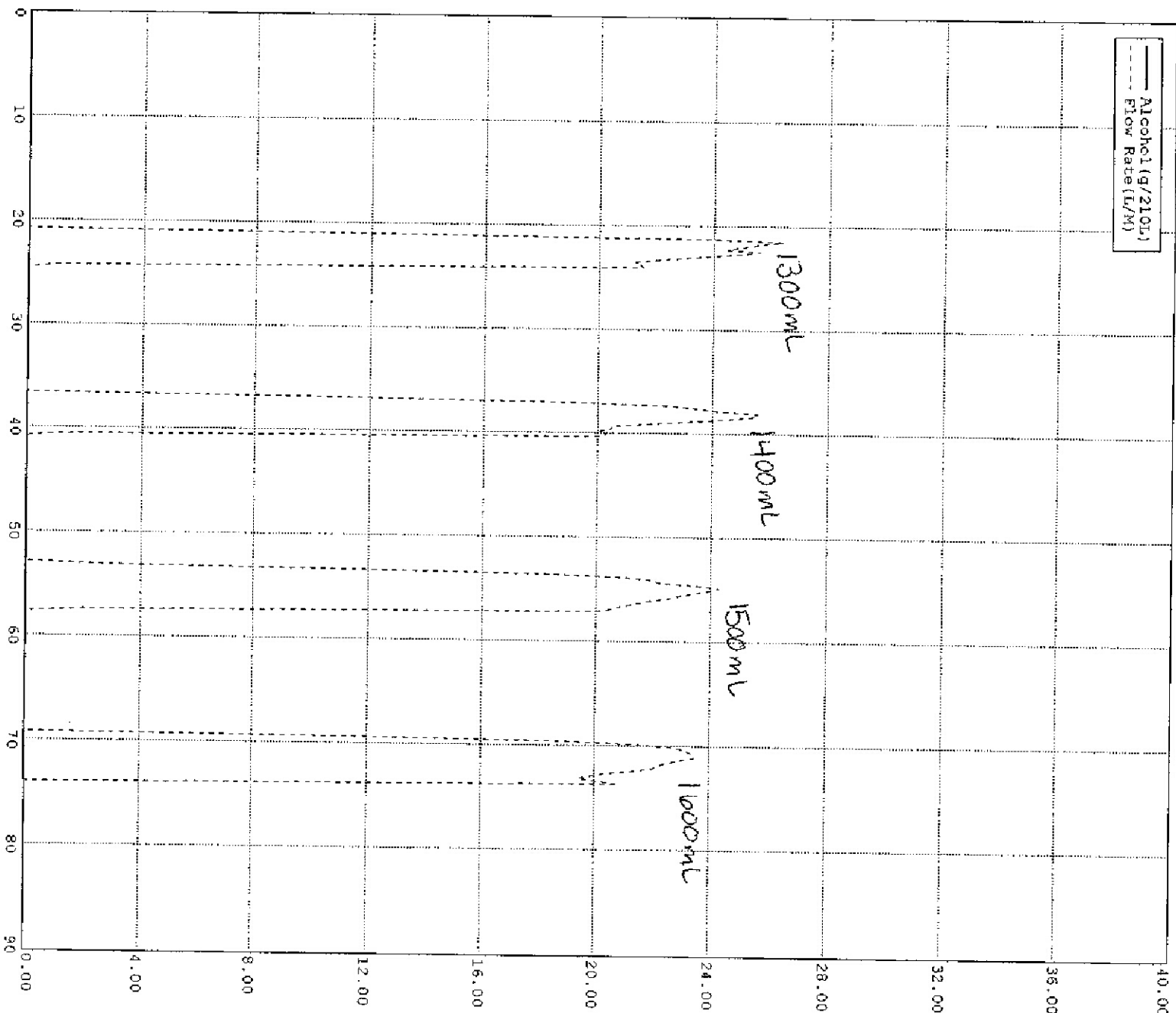
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 AAAA
 CASE/REPORT: MIN VOLUME
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.06: 0.077
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:29
BLANK TEST	0.000	09:29
INTERNAL STANDARD	VERIFIED	09:29
EXTERNAL STANDARD	0.077	09:29
BLANK TEST	0.000	09:30
SUBJECT SAMPLE	0.000	09:31
BLANK TEST	0.000	09:32
EXTERNAL STANDARD	0.077	09:33
BLANK TEST	0.000	09:33

BBMB



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100400

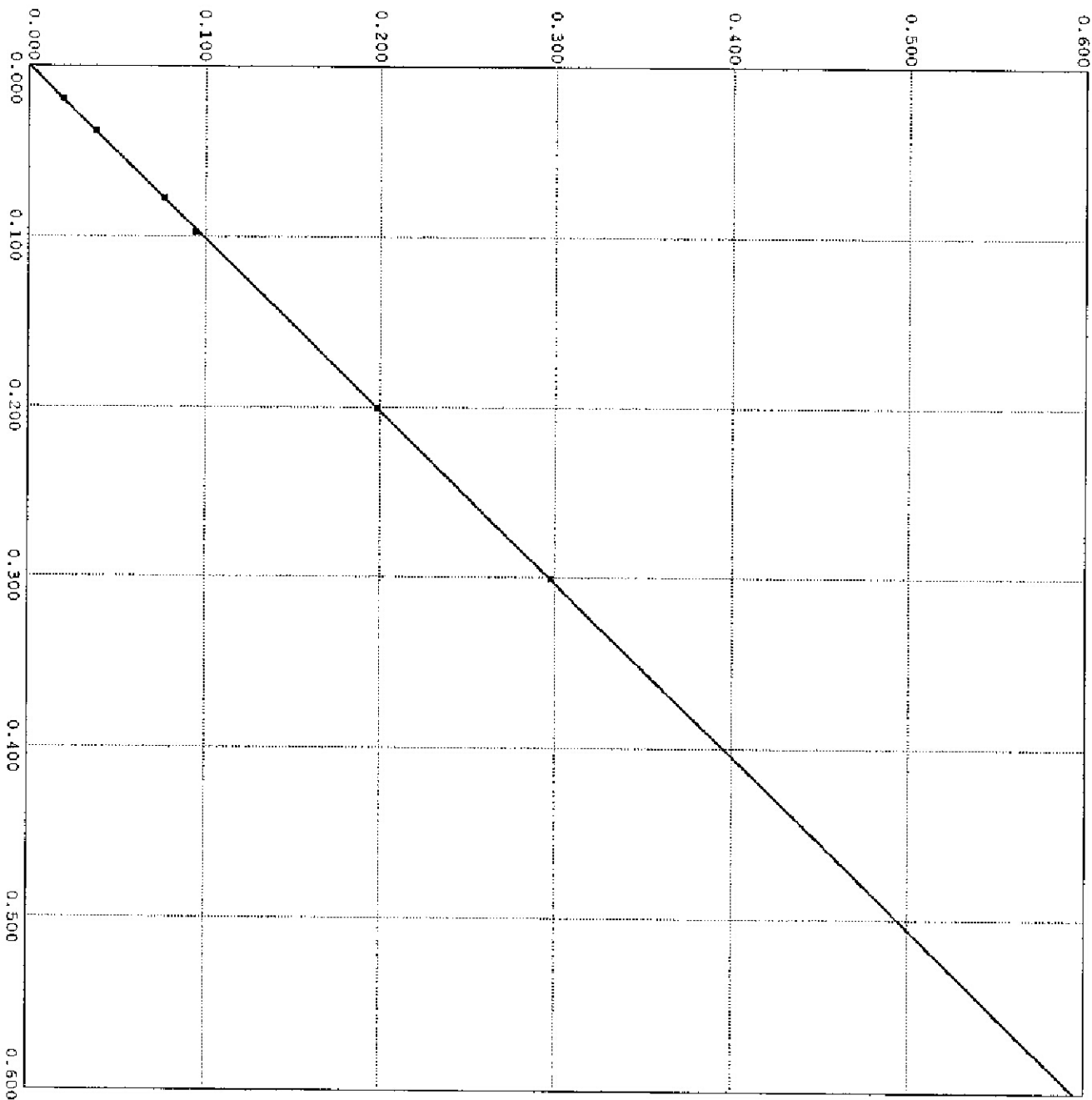
Date: 05/14/2013
 Time: 10:04:26

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0201	0.0001
0.038	0.0391	0.0001
0.077	0.0776	0.0002
0.097	0.0951	0.0003
0.200	0.1990	0.0003
0.300	0.2981	0.0006

SLOPE = 0.989547
 R² = 0.999929

BBB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dnt: 100400

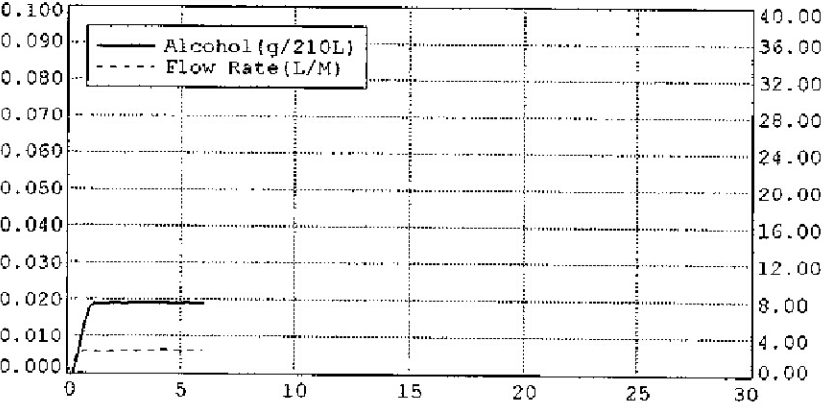
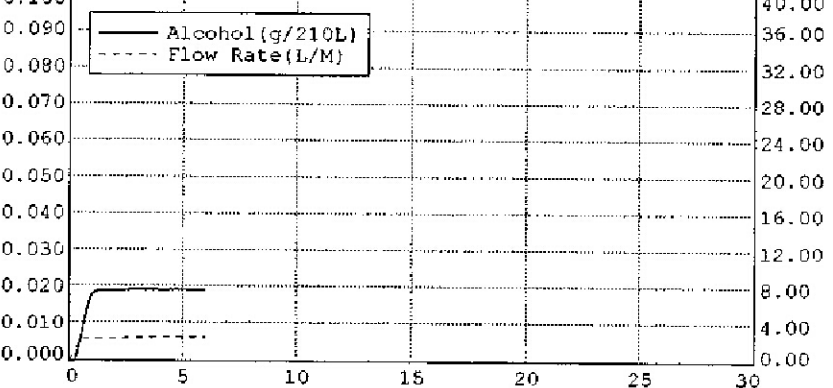
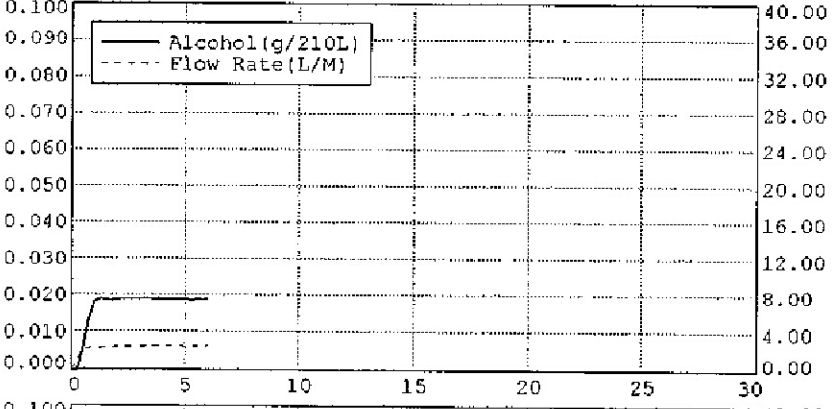
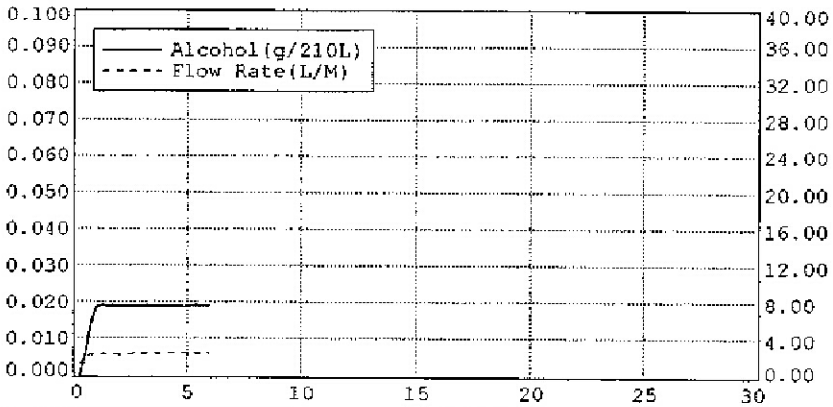
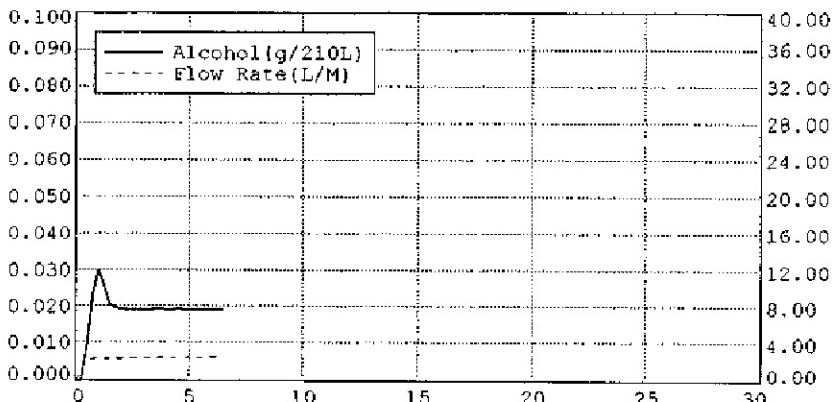
Date: 05/14/2013
 Time: 10:04:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.06: 0.019
 LOT #: 00813020A1
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:05
INTERNAL STANDARD	VERIFIED	10:05
EXTERNAL STANDARD	0.020	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.019	10:06
BLANK TEST	0.000	10:07
EXTERNAL STANDARD	0.020	10:08
BLANK TEST	0.000	10:08
EXTERNAL STANDARD	0.020	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.020	10:10
BLANK TEST	0.000	10:11

Average = 0.0201
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100400

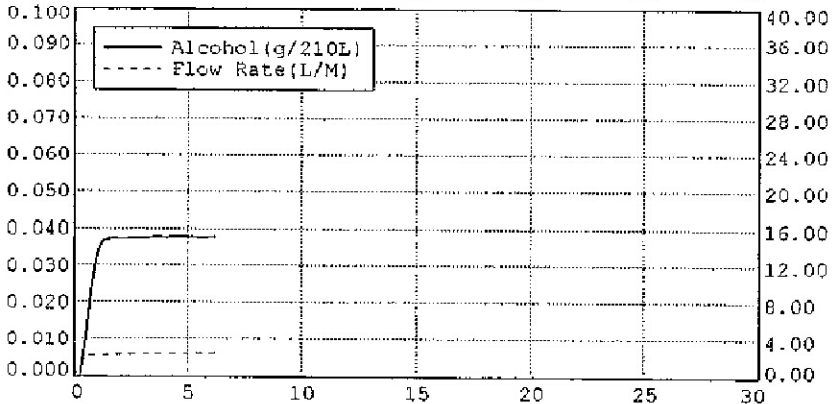
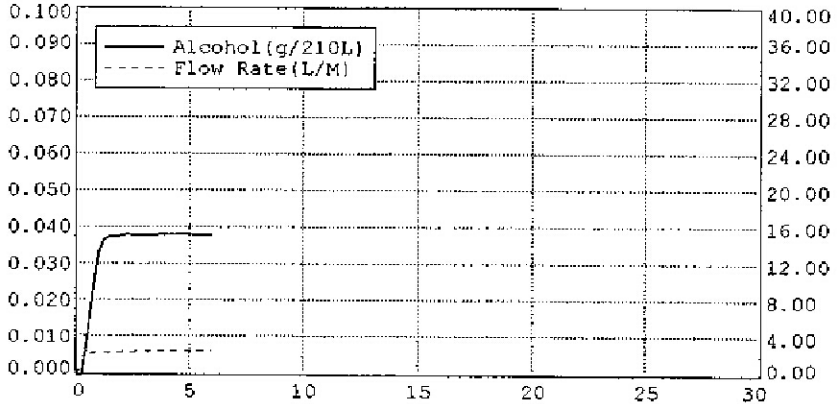
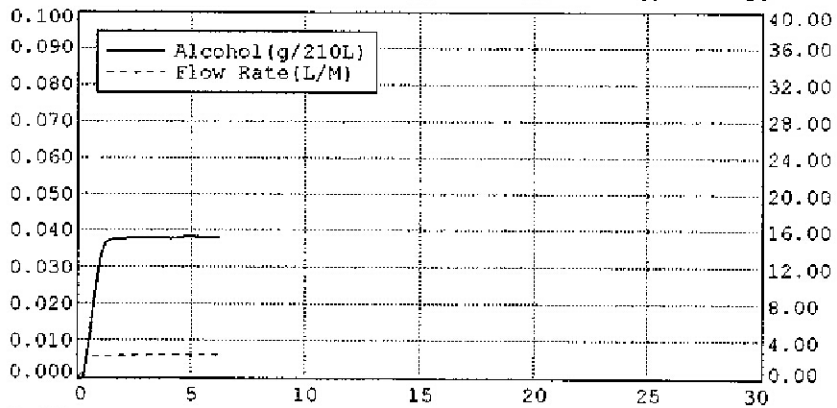
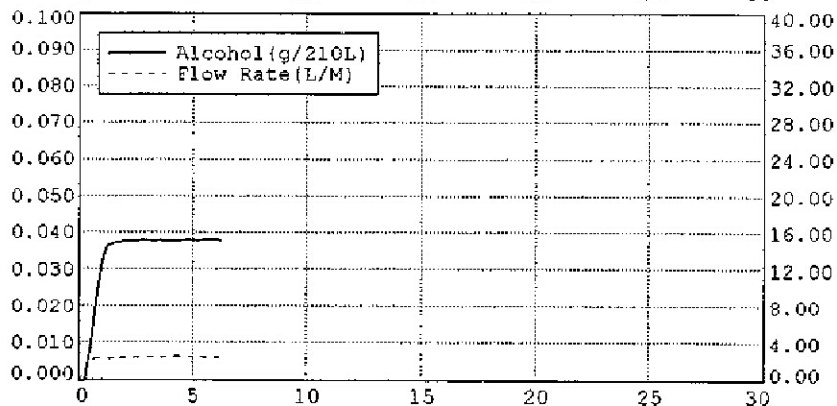
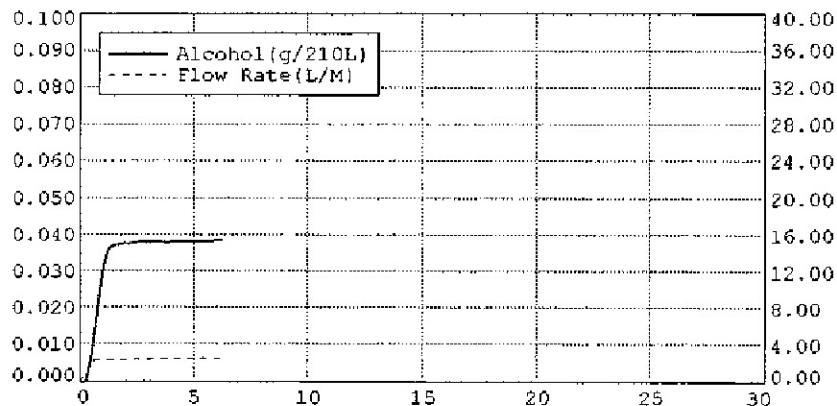
Date: 05/14/2013
Time: 10:17:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.06: 0.038
LOT #: 00813040A2
EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:21
INTERNAL STANDARD	VERIFIED	10:21
EXTERNAL STANDARD	0.039	10:22
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.039	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.039	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.039	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.039	10:26
BLANK TEST	0.000	10:27

Average = 0.0391
Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100400

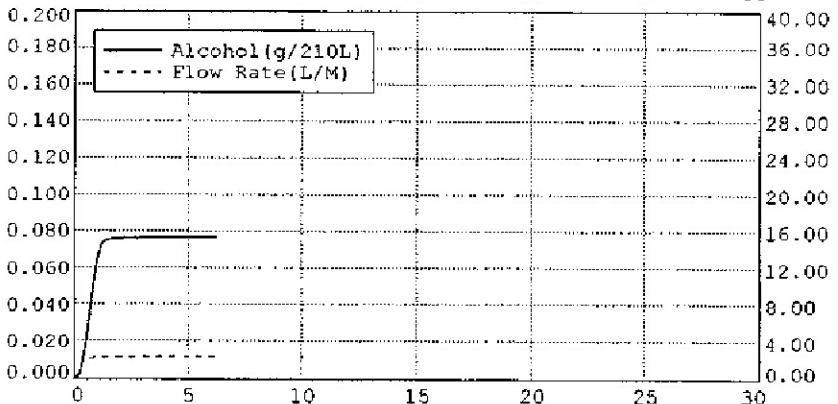
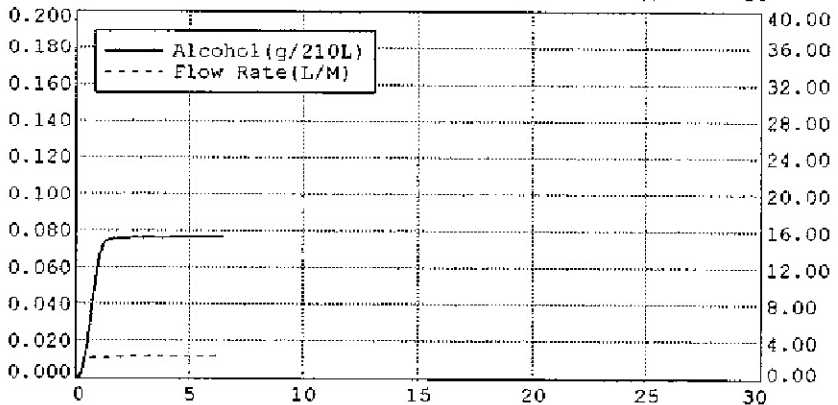
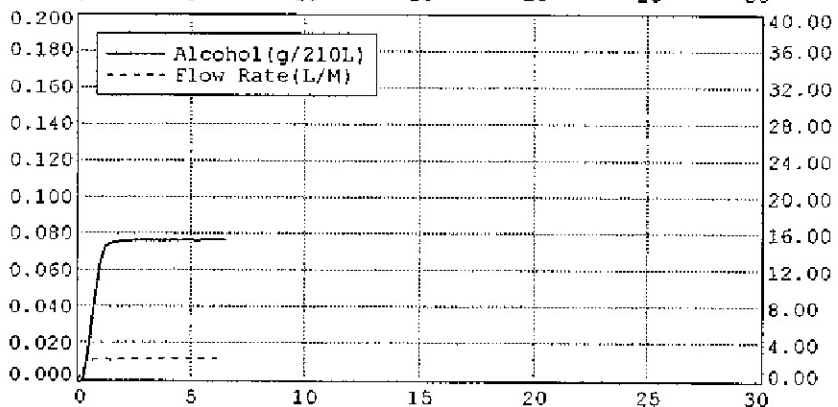
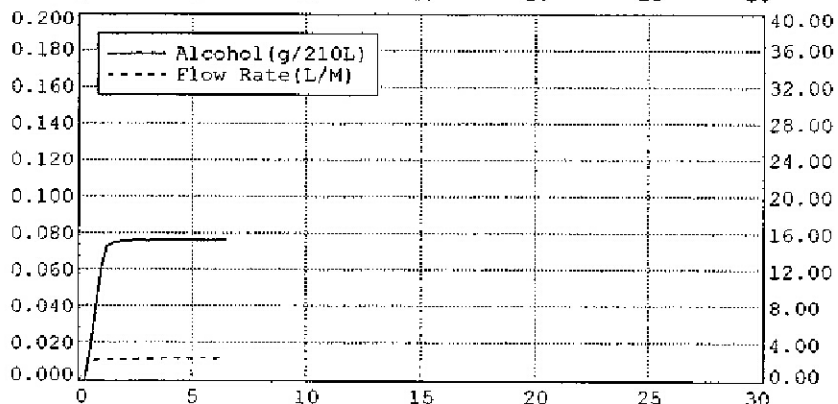
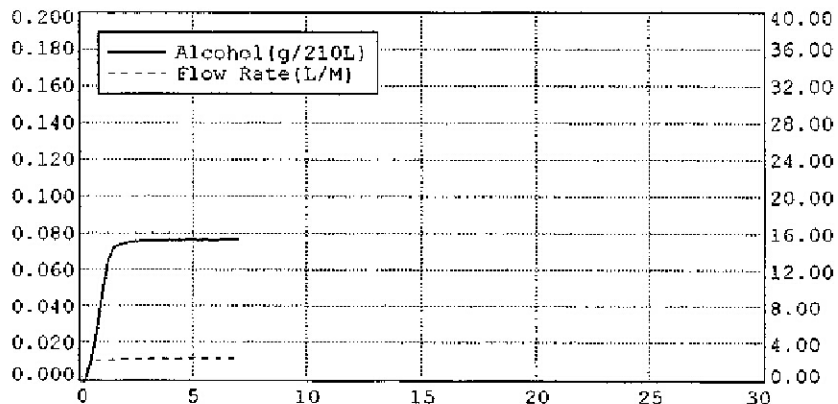
Date: 05/14/2013
Time: 10:29:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.06: 0.077
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	10:30
INTERNAL STANDARD	VERIFIED	10:30
EXTERNAL STANDARD	0.077	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.077	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.077	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.077	10:33
BLANK TEST	0.000	10:34
EXTERNAL STANDARD	0.077	10:34
BLANK TEST	0.000	10:35

Average = 0.0776
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

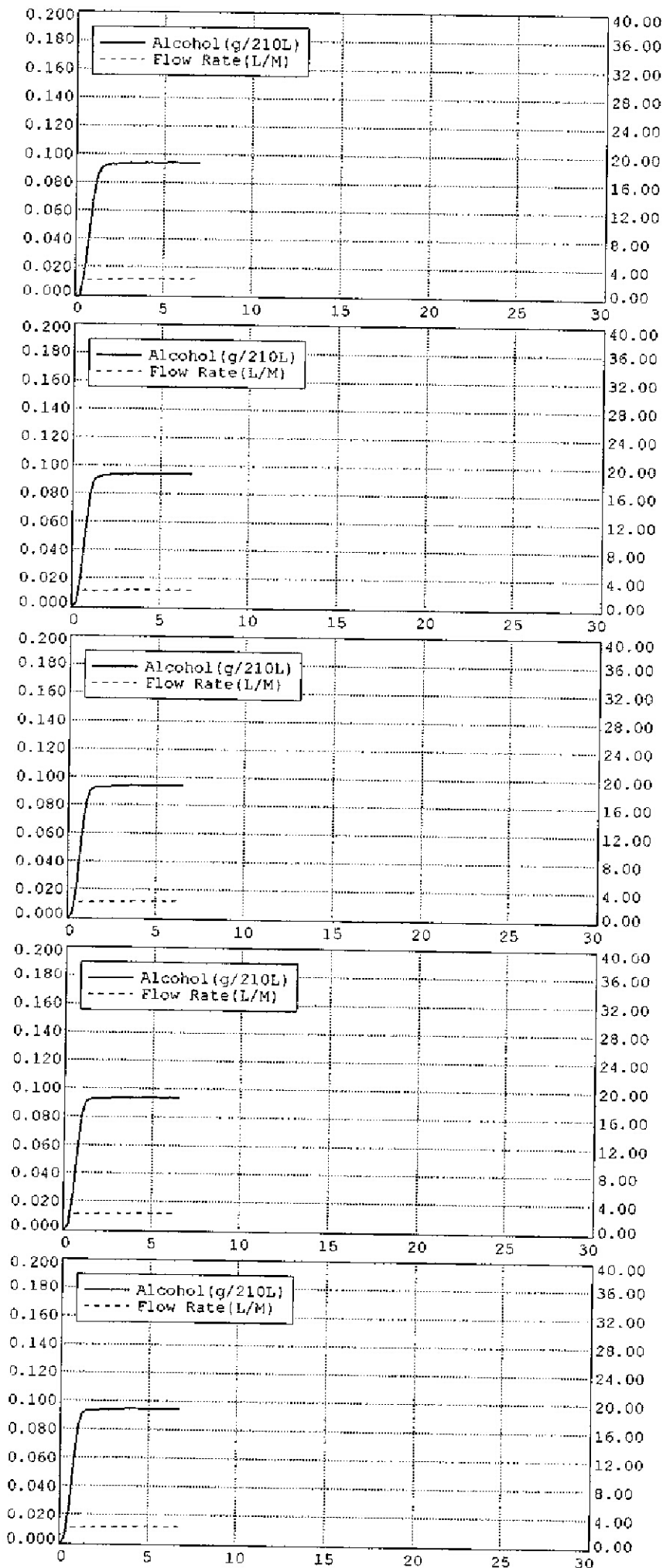
Alaska Department of Public Safety
 DATAMASTER dmt: 100400

Date: 05/14/2013
 Time: 10:38:40

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AT 29.06: 0.097
 LOT #: 00813100A3
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:40
INTERNAL STANDARD	VERIFIED	10:40
EXTERNAL STANDARD	0.095	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.095	10:42
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.095	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.094	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.095	10:45
BLANK TEST	0.000	10:46

Average = 0.0951
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

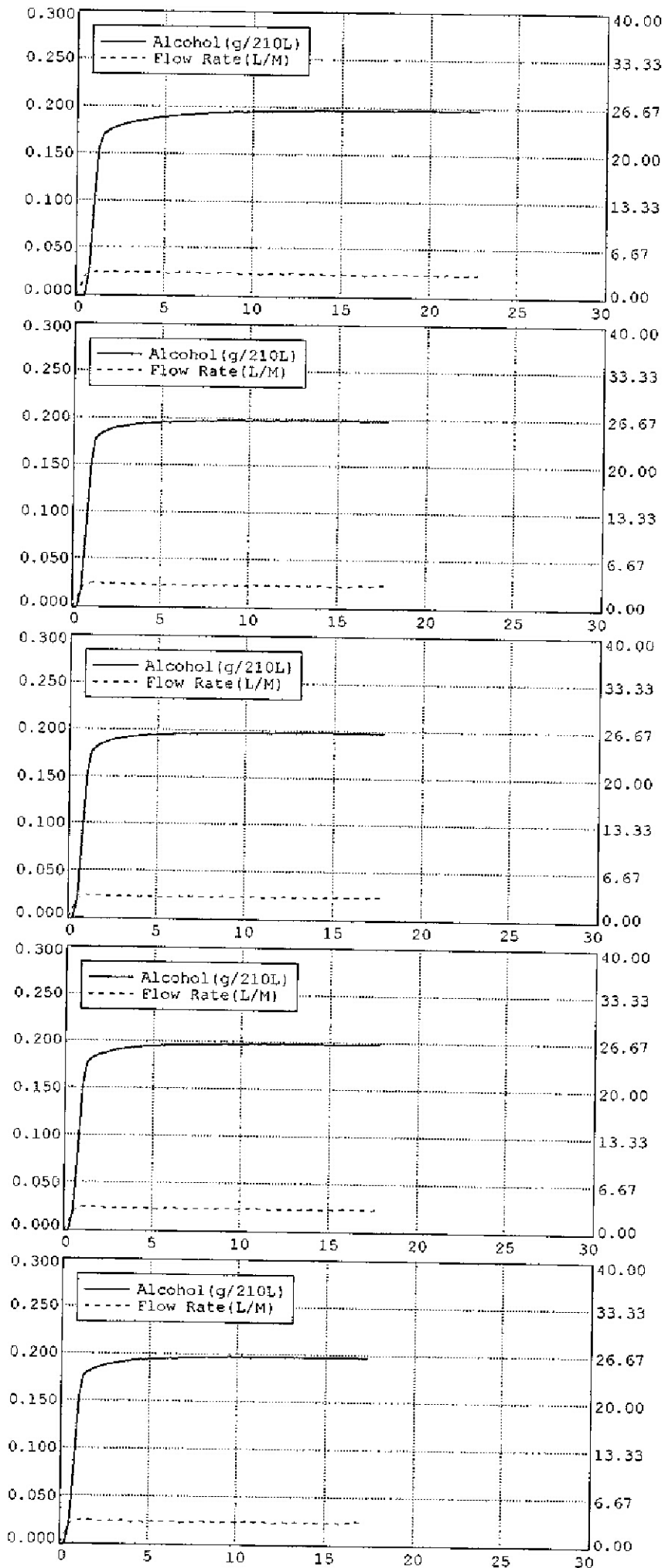
Alaska Department of Public Safety
 DATAMASTER dmt: 100400

Date: 05/14/2013
 Time: 10:57:11

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 11120
 EXPIRATION: 07/19/2013

BLANK TEST	0.000	10:58
INTERNAL STANDARD	VERIFIED	10:58
EXTERNAL STANDARD	0.198	10:58
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.199	11:00
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.199	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.199	11:02
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.198	11:04
BLANK TEST	0.000	11:05

Average = 0.1990
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100400

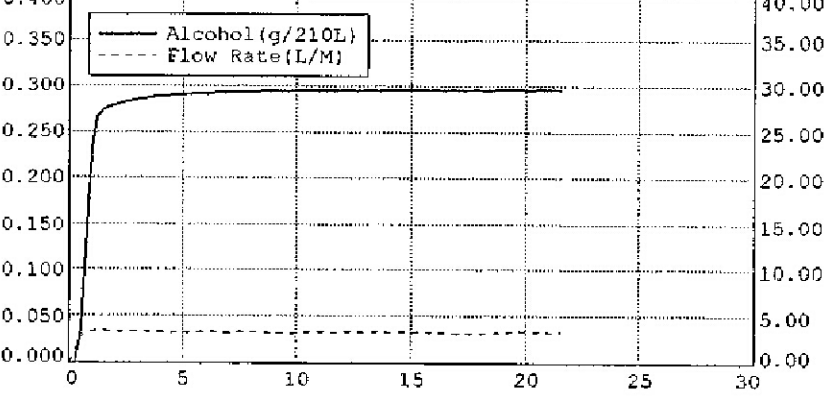
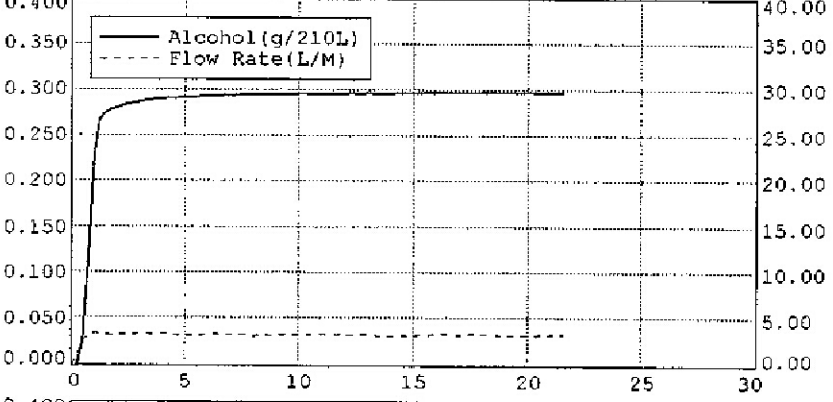
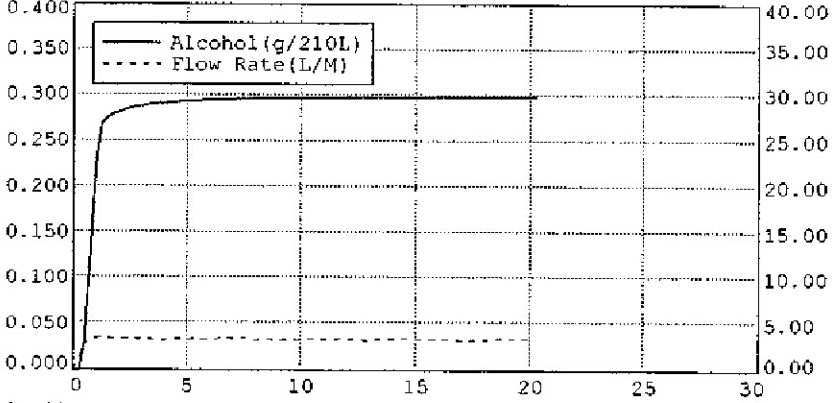
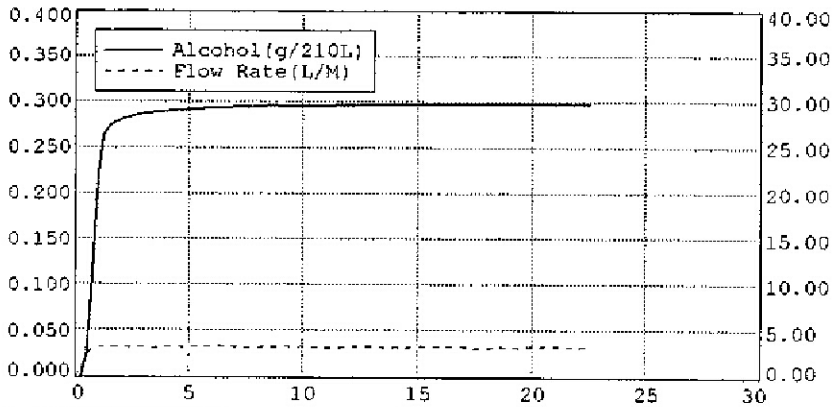
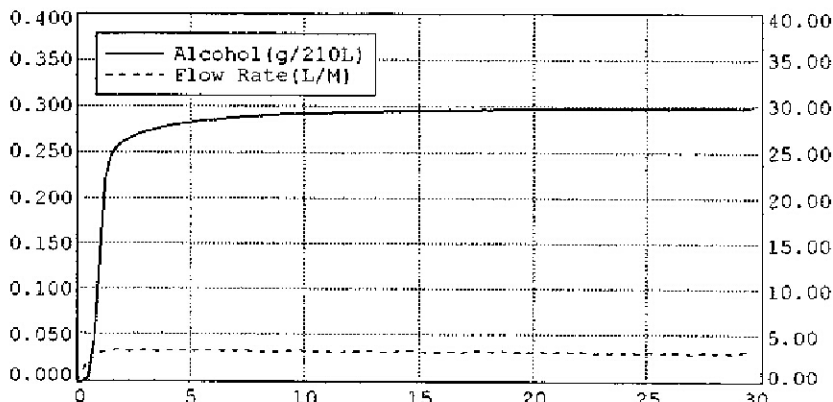
Date: 05/14/2013
 Time: 11:06:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 12050
 EXPIRATION: 03/21/2014

BLANK TEST	0.000	11:07
INTERNAL STANDARD	VERIFIED	11:08
EXTERNAL STANDARD	0.298	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.298	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.298	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.297	11:12
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.297	11:14
BLANK TEST	0.000	11:15

Average = 0.2981
 Std Dev = 0.0006



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100400

Date: 05/14/2013
 Time: 14:00:27

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

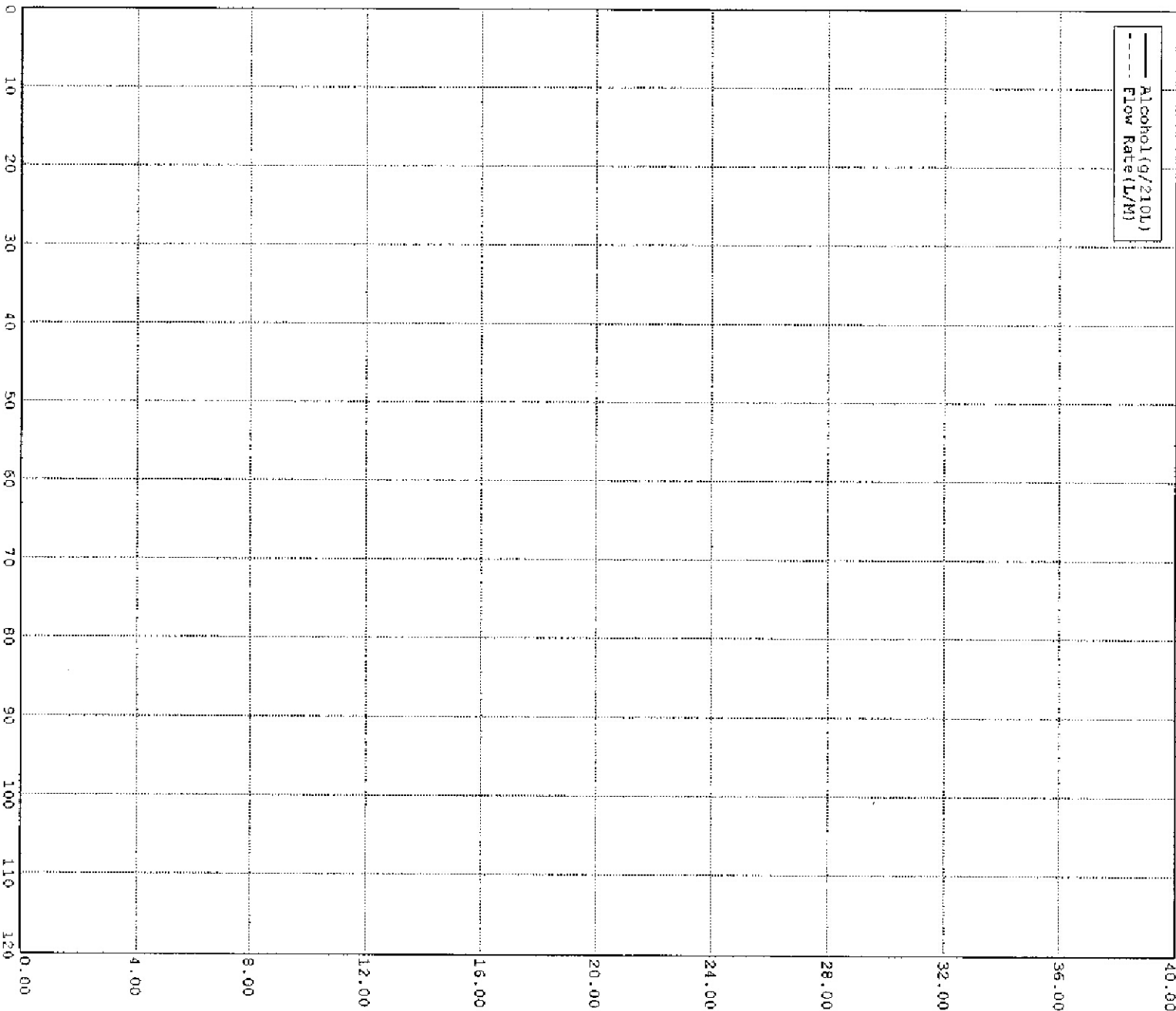
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.08: 0.077
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:01
BLANK TEST	0.000	14:01
INTERNAL STANDARD	VERIFIED	14:01
EXTERNAL STANDARD	0.077	14:01
BLANK TEST	0.000	14:02
SUBJECT SAMPLE	INCOMPLETE	14:04

BMB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100400

Date: 05/14/2013
 Time: 14:15:21

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

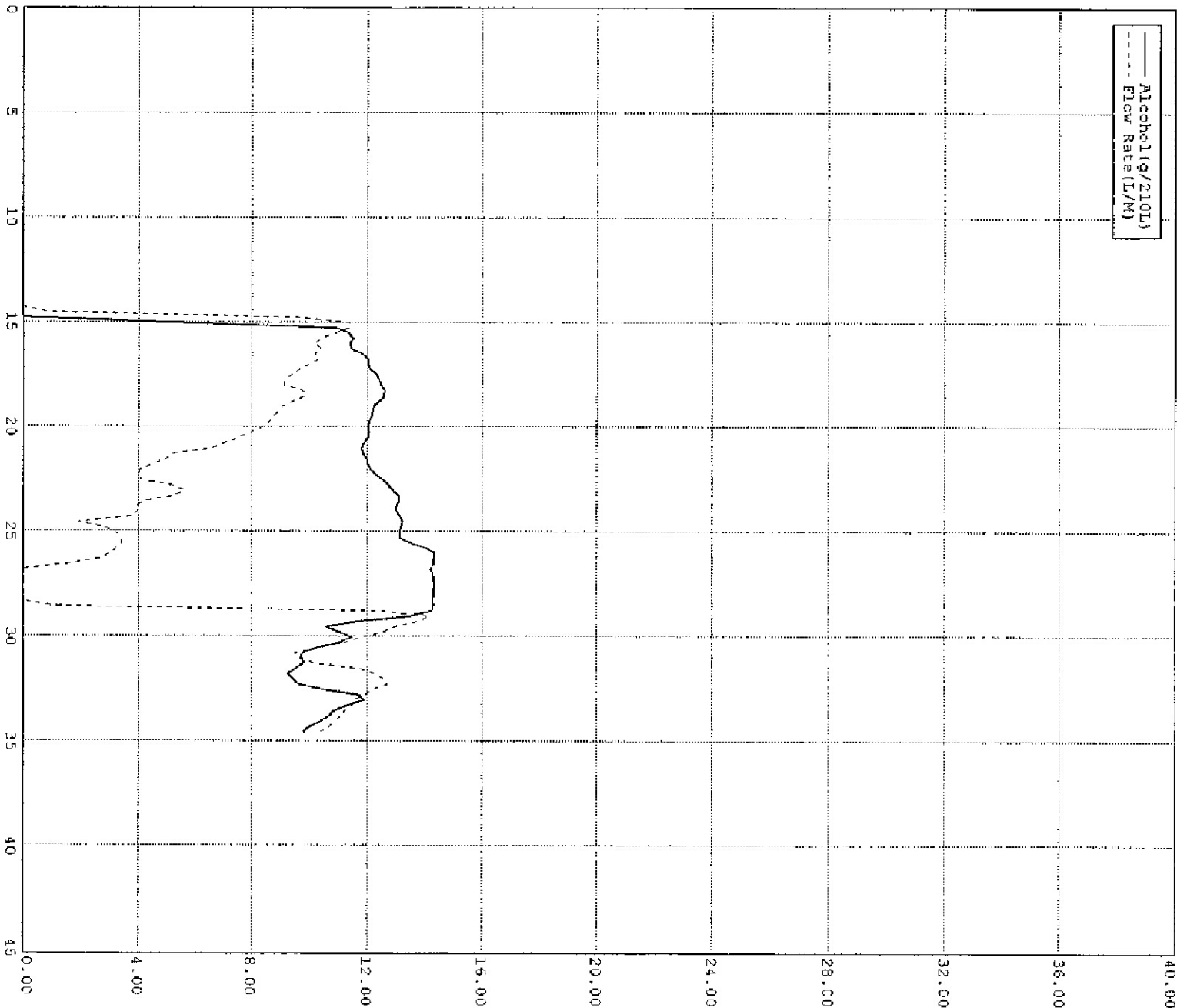
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 AAAL
 CASE/REPORT: INVALID
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.08: 0.077
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:16
BLANK TEST	0.000	14:17
INTERNAL STANDARD	VERIFIED	14:17
EXTERNAL STANDARD	0.077	14:17
BLANK TEST	0.000	14:18
SUBJECT SAMPLE	INVALID	14:19

BBMB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100400

Date: 05/15/2013
 Time: 09:28:03

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 AAA1

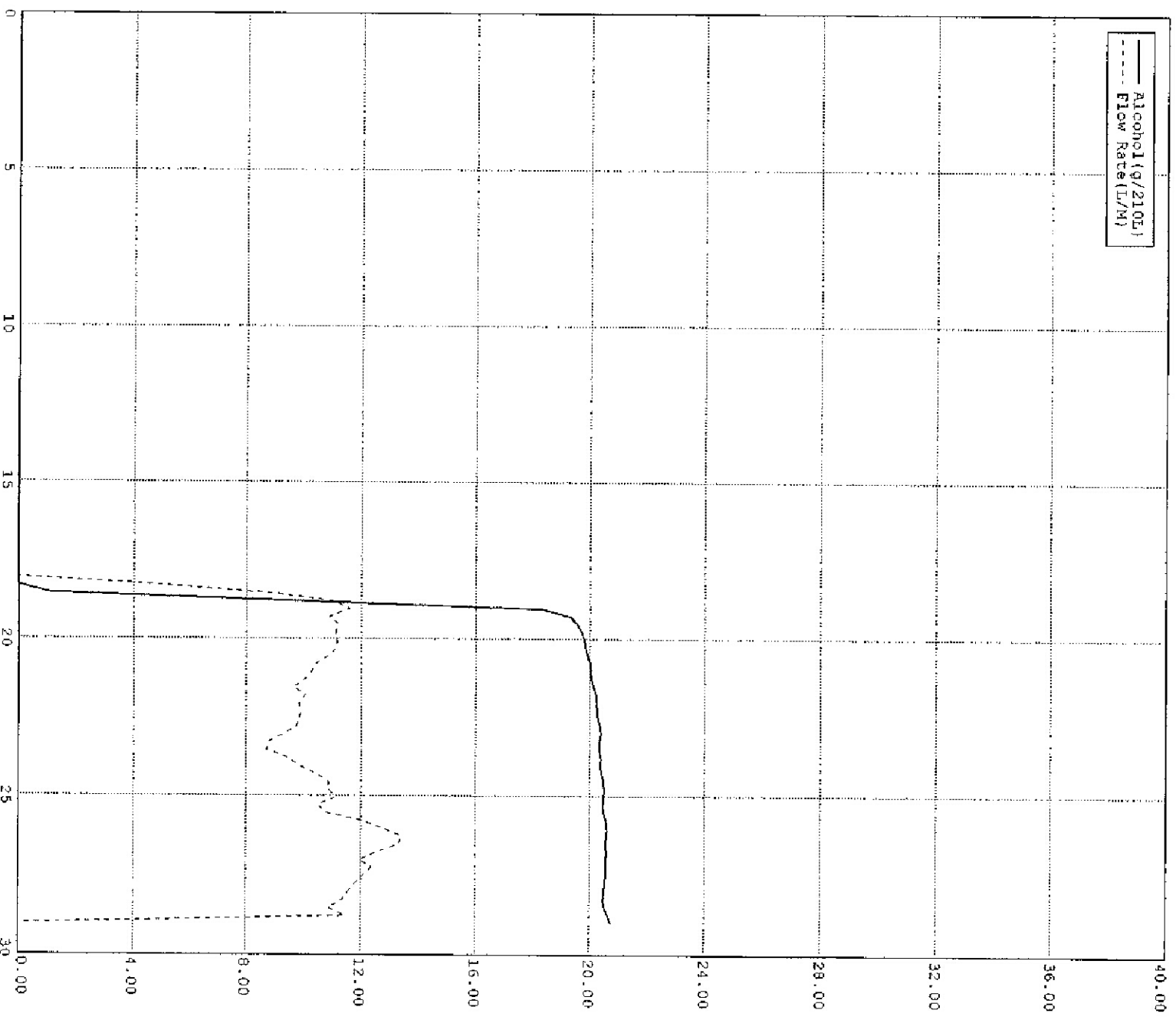
CASE/REPORT: INTERFERE ACETONE
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.25: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:29
BLANK TEST	0.000	09:29
INTERNAL STANDARD	VERIFIED	09:29
Xq = 0.101 (0.70%)		
EXTERNAL STANDARD	0.078	09:29
X[1] = 0.0780 (0.0011) (0.0022)		
BLANK TEST	0.000	09:30
SUBJECT SAMPLE	INTERFERENCE	09:30
X[1] = 0.1043 (-0.0185) (0.0084)		

BMB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100400

Date: 05/15/2013
 Time: 09:33:51

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

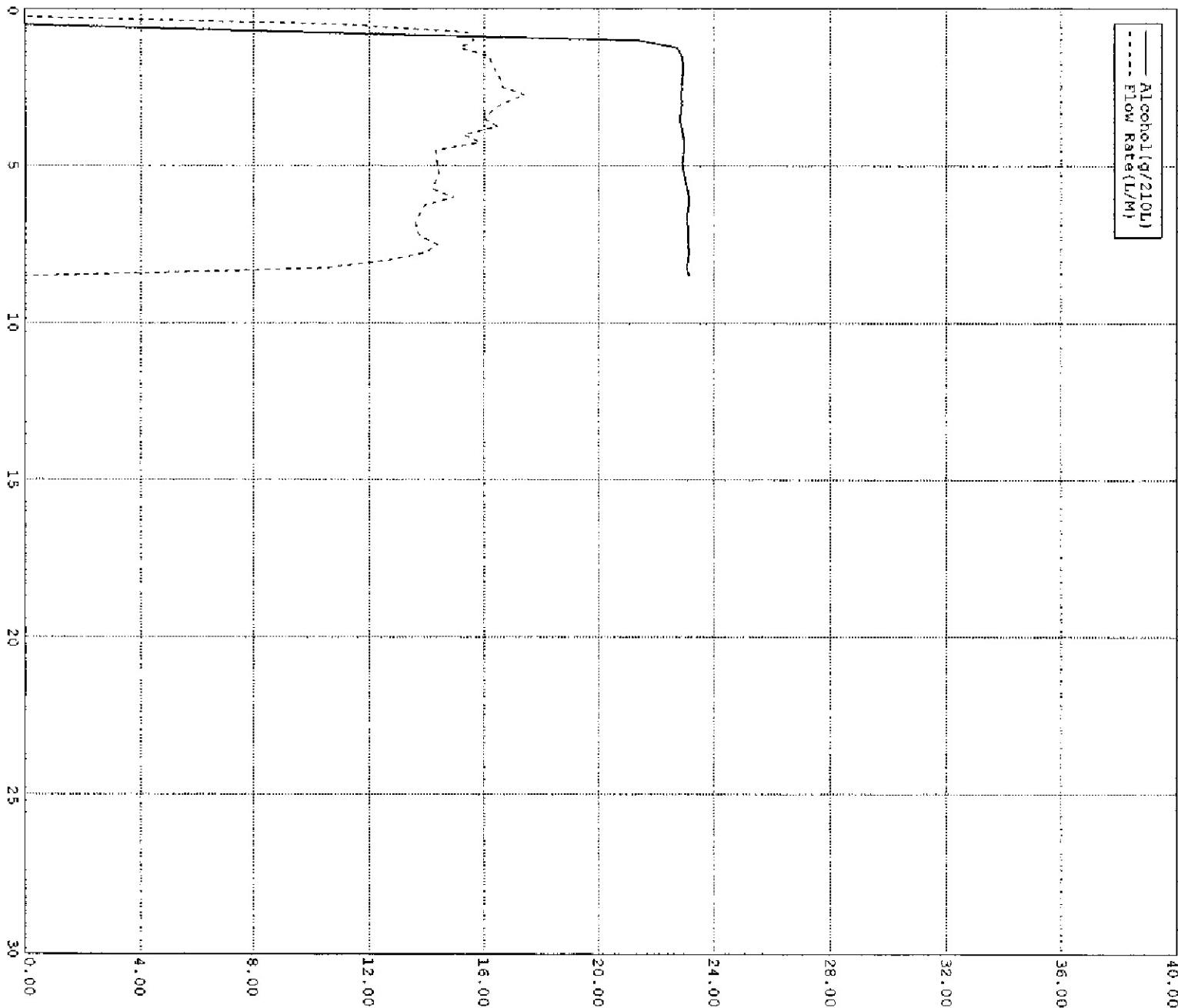
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 AAA1
 CASE/REPORT: INTERFERE ISOPROP
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.25: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:34
BLANK TEST	0.000	09:35
INTERNAL STANDARD	VERIFIED	09:35
Xq = 0.101 (0.97%)	0.078	09:35
EXTERNAL STANDARD	X[1] = 0.0785 (0.0015)	(0.0018)
BLANK TEST	0.000	09:36
SUBJECT SAMPLE	INTERFERENCE	09:36
X[1] = 0.1159 (-0.0249)	(0.0016)	

BBMB



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100400

Date: 05/15/2013
 Time: 09:43:13

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 AAAA

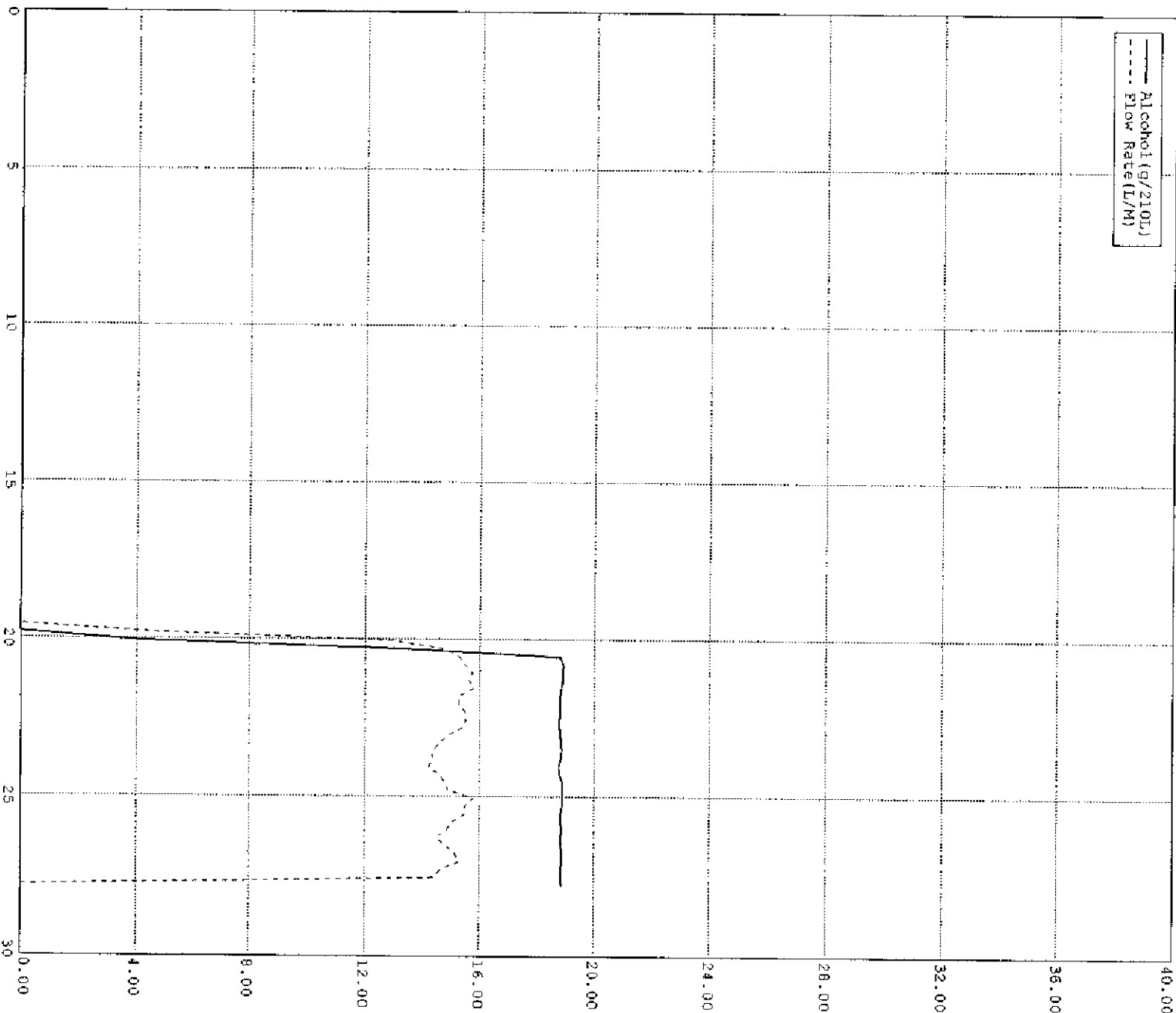
CASE/REPORT: INTERFERE NEG
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.26: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:44
BLANK TEST	0.000	09:44
INTERNAL STANDARD	VERIFIED	09:44
Xg = 0.101 (0.79%)		
EXTERNAL STANDARD	0.077	09:44
X[1] = 0.0779 (0.0009)	(0.0031)	
BLANK TEST	0.000	09:45
SUBJECT SAMPLE (Vol=1.96L)	0.094	09:46
X[1] = 0.0946 (-0.0007)	(-0.0005)	
BLANK TEST	0.000	09:47
EXTERNAL STANDARD	0.077	09:47
X[1] = 0.0779 (0.0012)	(0.0017)	
BLANK TEST	0.000	09:48

Handwritten signature: BMB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100400

Date: 05/14/2013
 Time: 14:09:38

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

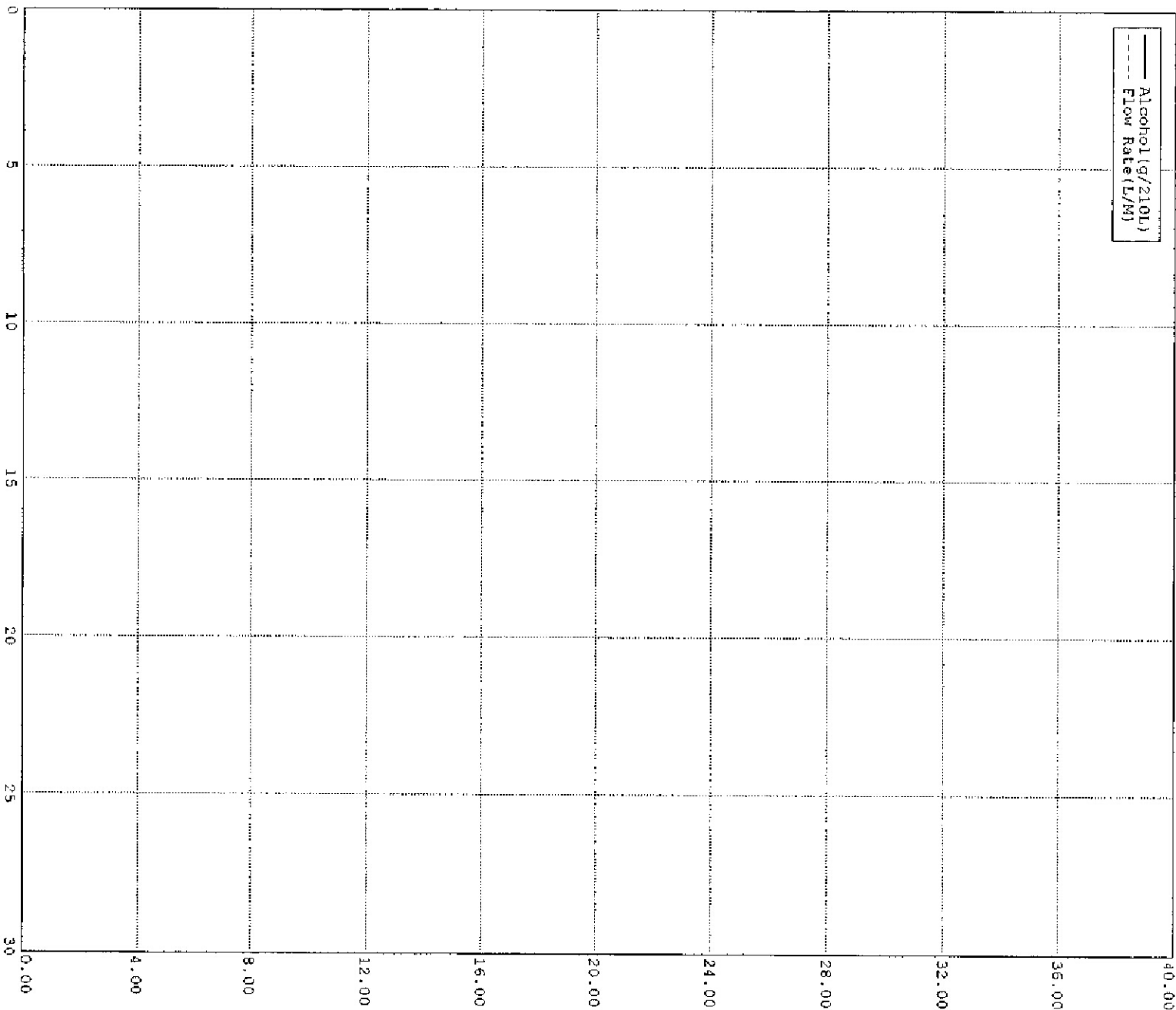
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 AAAA
 CASE/REPORT: RFI
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.08: 0.077
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:12
BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:12
EXTERNAL STANDARD	0.077	14:12
BLANK TEST	0.000	14:13

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 05/15/2013
Time: 10:02:58

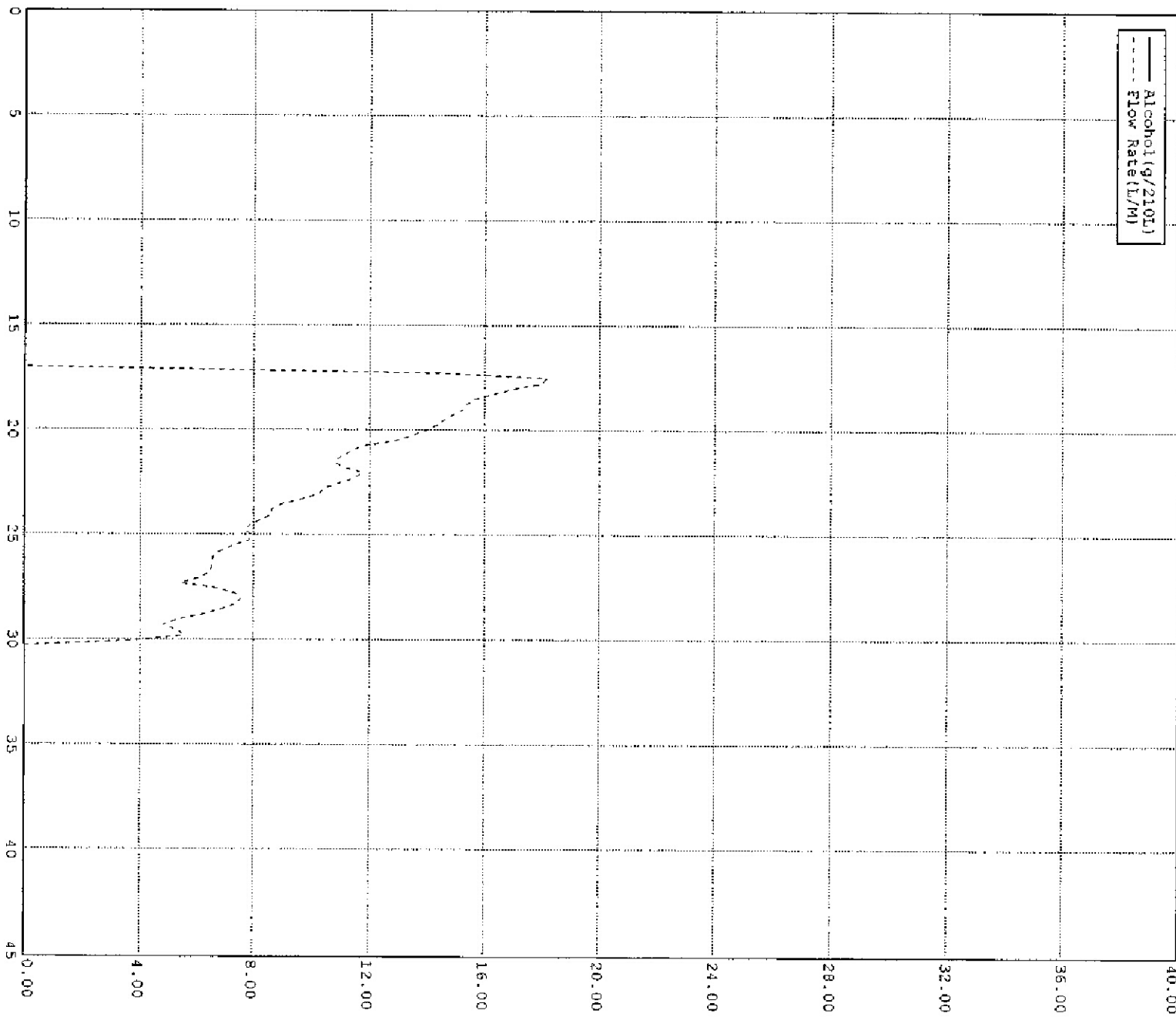
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
AAA1
CASE/REPORT: NON DRINKING SUB
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:03
BLANK TEST	0.000	10:04
INTERNAL STANDARD	VERIFIED	10:04
EXTERNAL STANDARD	0.078	10:04
BLANK TEST	0.000	10:05
SUBJECT SAMPLE	0.000	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.078	10:07
BLANK TEST	0.000	10:07

8MB



Final page for report

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\\ANCSCLSAN01\JTRAX\CASEDOCS\B-100400\B-100400 ECF-20130

8/21/2013