

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100397 Analyst Brandi Barnett Start Date 8/28/12

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 1500 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 3/1/13

ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13

iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14

iv. 0.100g/210L Mnf ILMO Lot 0761100A3 Exp 3/1/13

v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/13

1. Simulator S/N SD1198 Date Calibrated 1/10/12

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

1. Simulator S/N DR4178 Date Calibrated 2/21/12

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/13

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

ii. Isopropanol - Mnf Guth Lot 11100 Level 0.100 Exp 7/6/13

1. Simulator S/N DR6267 Date Calibrated 01/10/12

iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13

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

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 JA

End Date 8/30/12

11/19 BMB

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 08/28/2012
Time: 09:36:53

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO
Flow Rate = 4.915 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

2/19/12
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Technician Screen

DATAMASTER dmt: 100397

Date: 08/28/2012
Time: 9:56 AM

Temperatures (°C)

Sample Cell: 49.7°C
Breath Tube: 48.0°C

Current Barometer 29.9 in
Volume (Ltr) 1.42

Settings

Lamp: 1.71 V
Bias: 81 V
Cooler: 1.74 V
Chopper: 530 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.109 V

3/19 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 05/18/2011
Time: 13:35:39

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2010

Ca = 0.1000
CAL = 0.983031 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0079 0.0010 <= b2 < 0.0100
b3 = 0.0004 0.0000 <= b3 < 0.0040
Xq = 0.0932 0.0500 <= Xq < 0.2000
a21 = 1.208582 1.050 <= a21 < 1.300
a31 = 0.521034 0.300 <= a31 < 0.800

4/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 08/28/2012
Time: 09:57:43

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

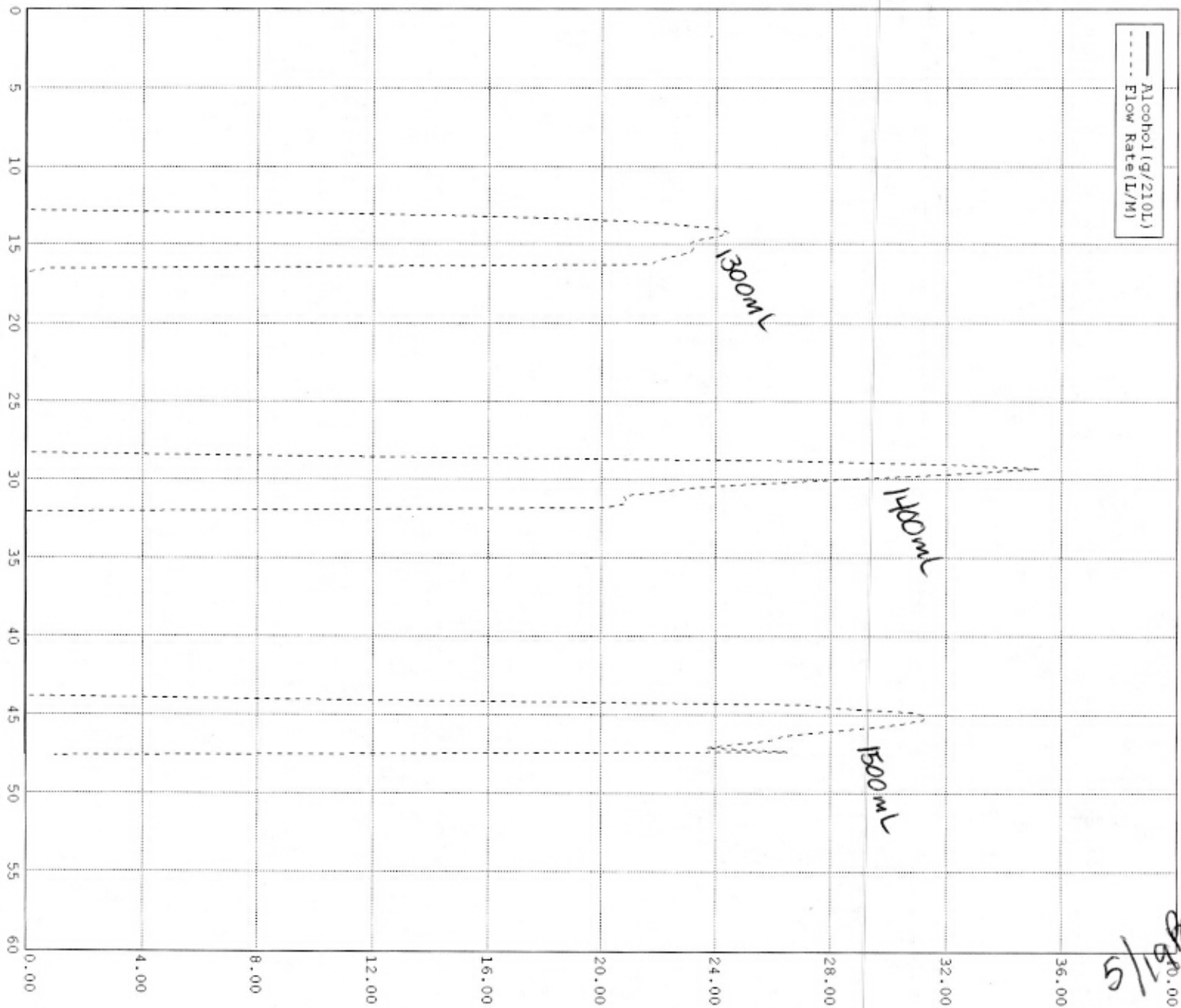
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:00
BLANK TEST	0.000	10:00
INTERNAL STANDARD	VERIFIED	10:00
EXTERNAL STANDARD	0.080	10:00
BLANK TEST	0.000	10:01
SUBJECT SAMPLE	0.000	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.079	10:03
BLANK TEST	0.000	10:04

BBB



BBB
8/31/12
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LINEARITY CHECK

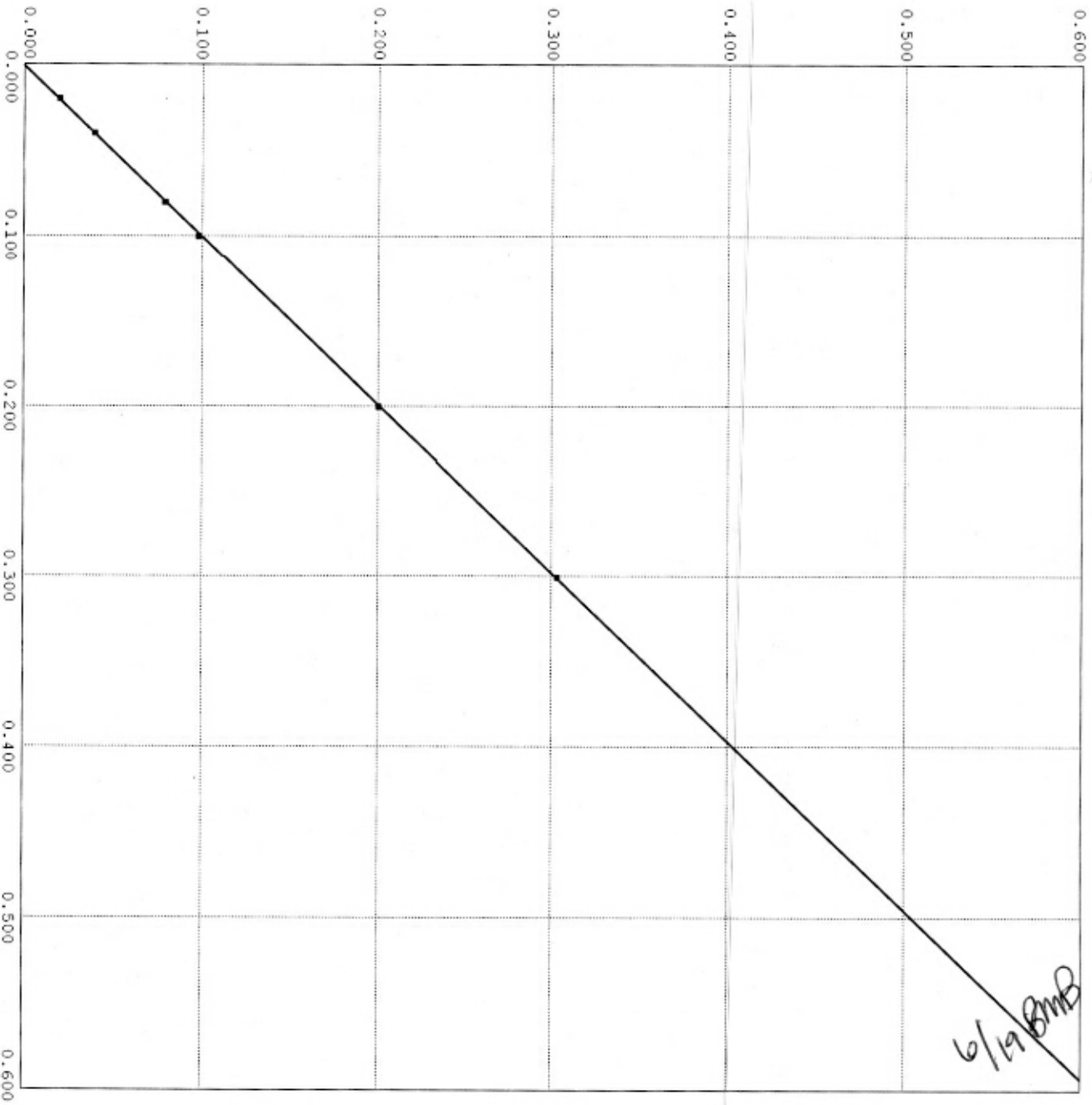
Alaska Department of Public Safety
 DATAMASTER dmc: 100397

Date: 08/28/2012
 Time: 12:43:38

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0206	0.0002
0.040	0.0402	0.0002
0.080	0.0799	0.0002
0.100	0.0989	0.0002
0.200	0.2011	0.0004
0.300	0.3039	0.0004

SLOPE = 1.012810
 R² = 0.999911



BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

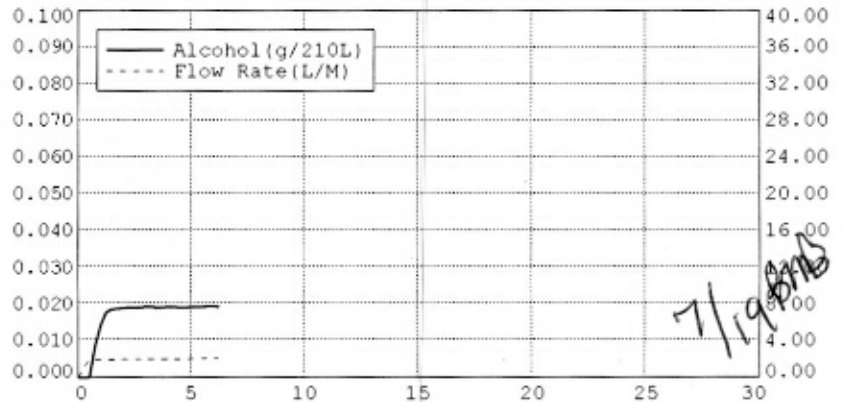
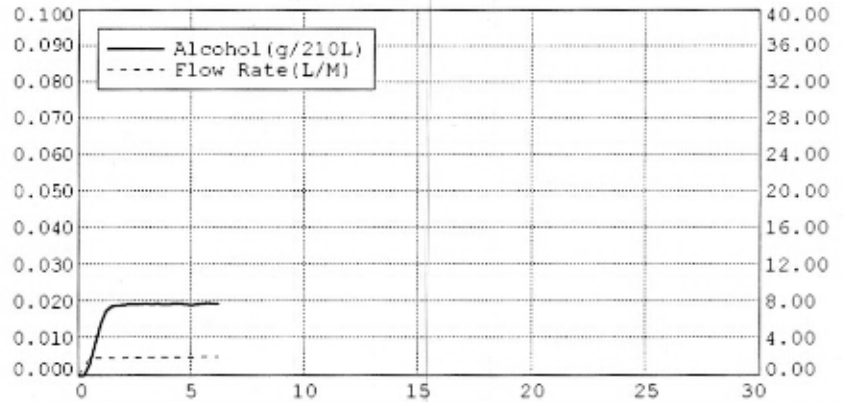
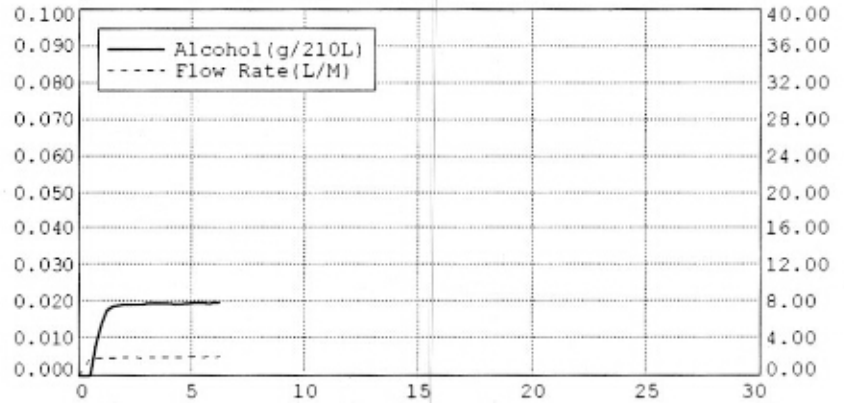
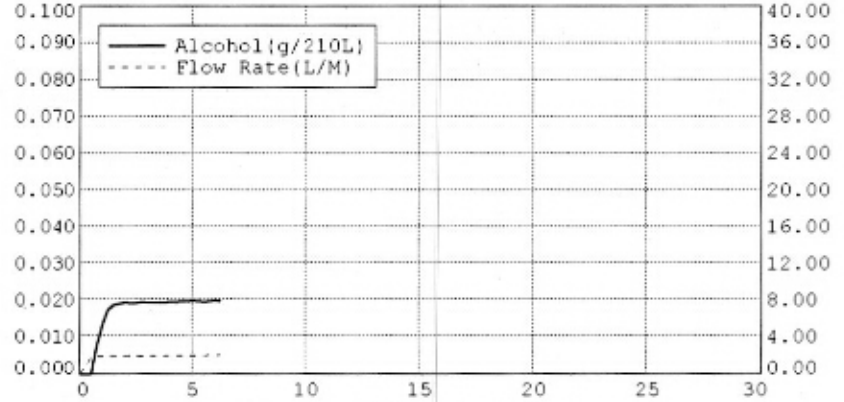
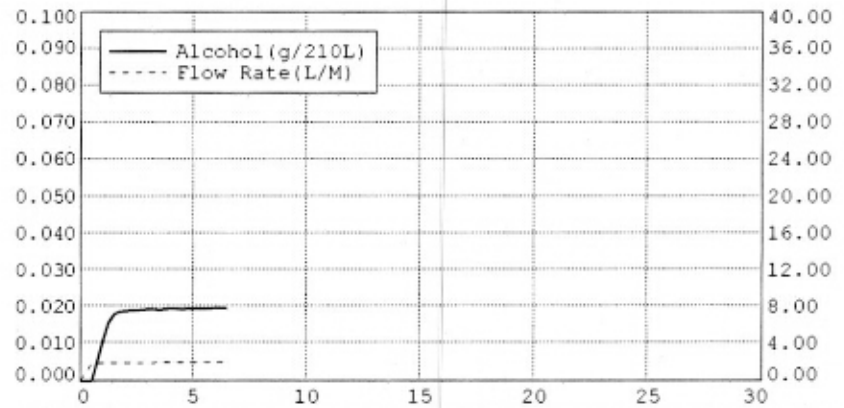
Date: 08/28/2012
 Time: 12:43:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.95: 0.020
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:45
INTERNAL STANDARD	VERIFIED	12:45
EXTERNAL STANDARD	0.020	12:45
BLANK TEST	0.000	12:46
EXTERNAL STANDARD	0.020	12:46
BLANK TEST	0.000	12:47
EXTERNAL STANDARD	0.020	12:47
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.020	12:48
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.020	12:49
BLANK TEST	0.000	12:50

Average = 0.0206
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

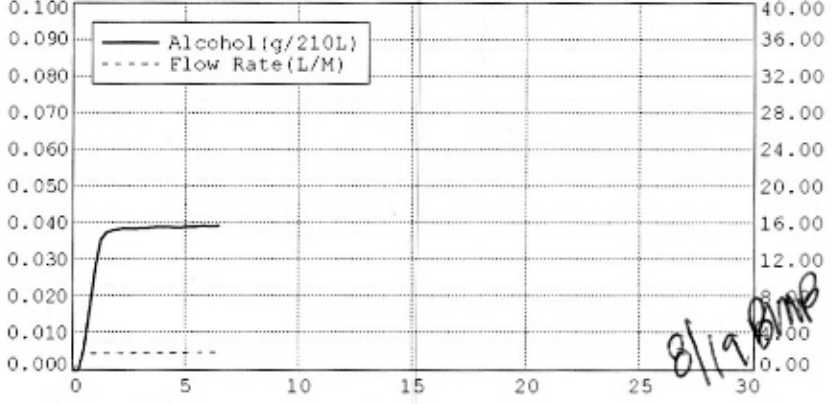
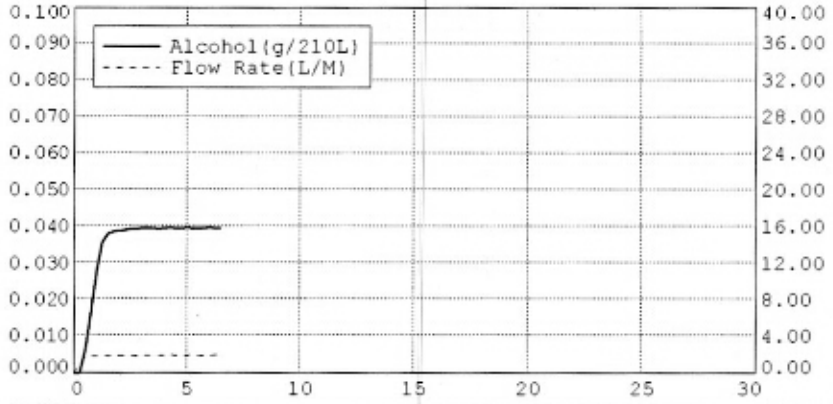
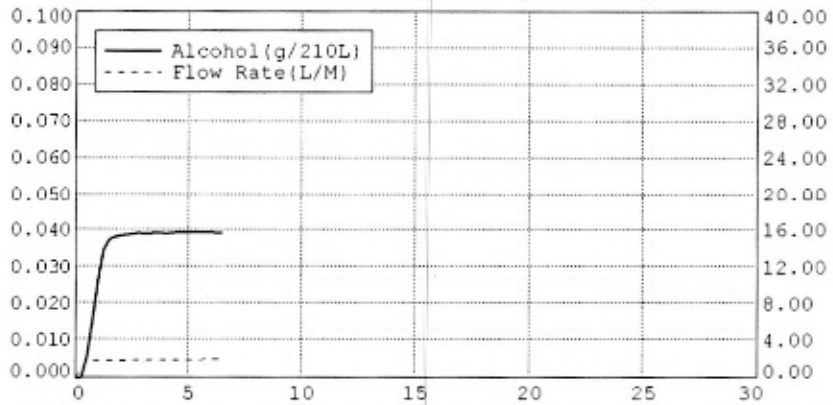
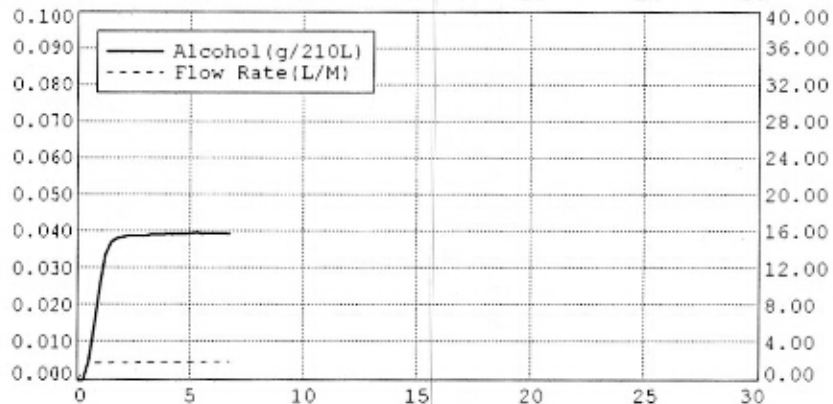
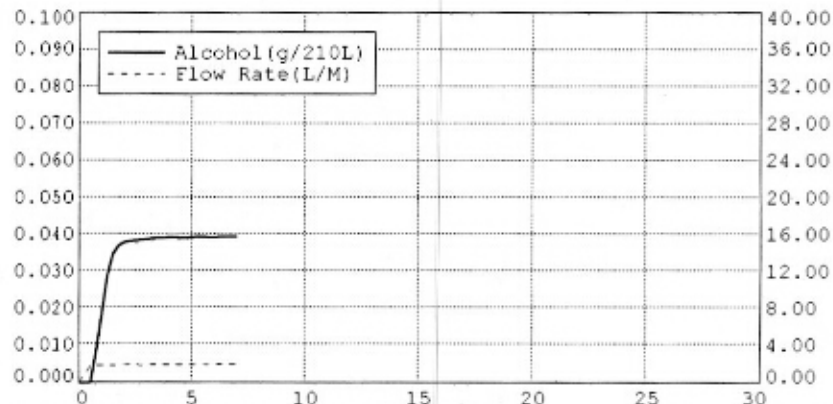
Date: 08/28/2012
 Time: 12:53:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.95: 0.040
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:54
INTERNAL STANDARD	VERIFIED	12:54
EXTERNAL STANDARD	0.040	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.040	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.040	12:56
BLANK TEST	0.000	12:57
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 = 0.0402
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

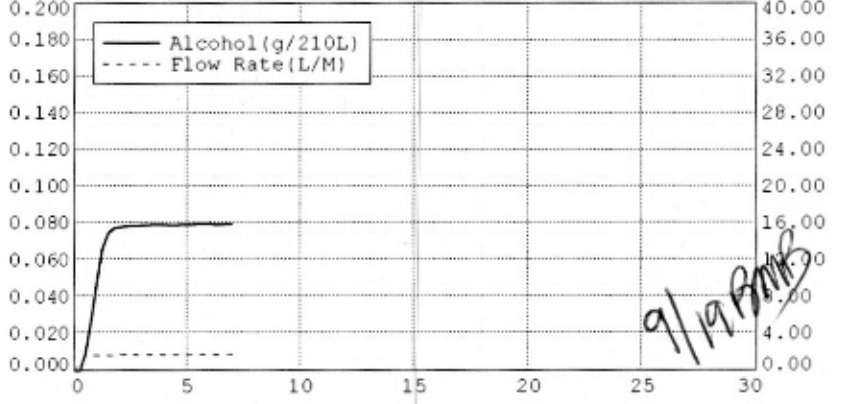
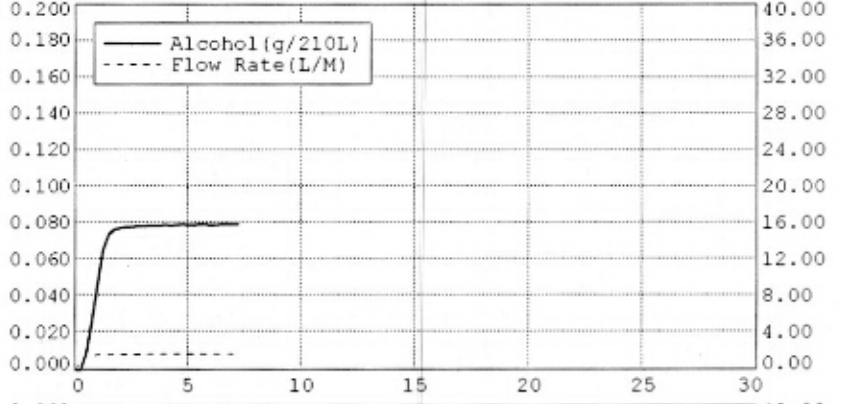
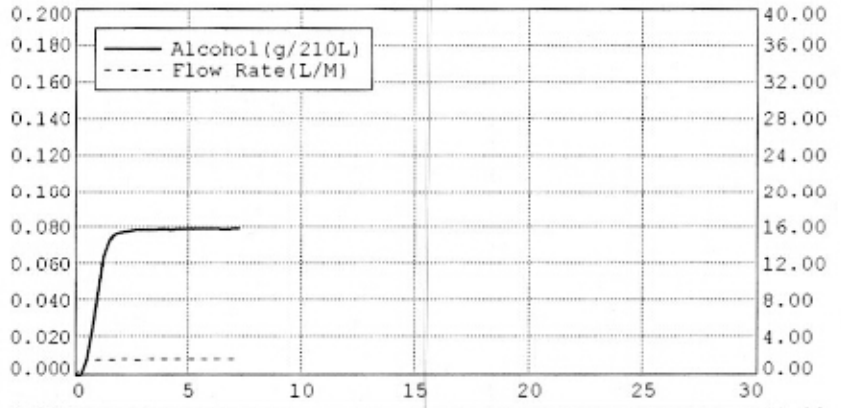
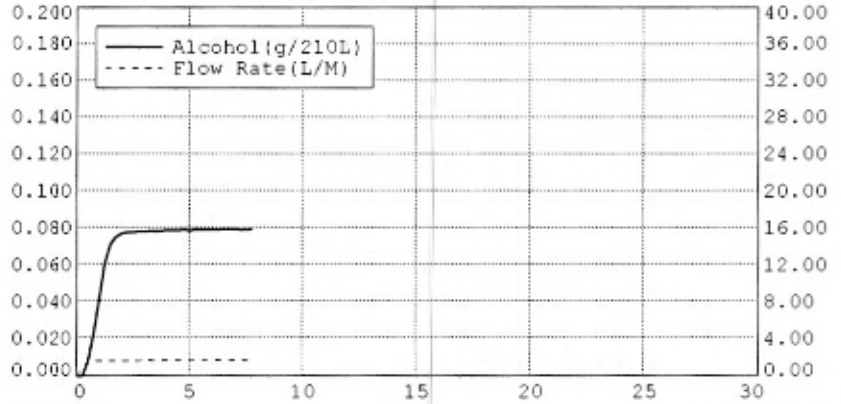
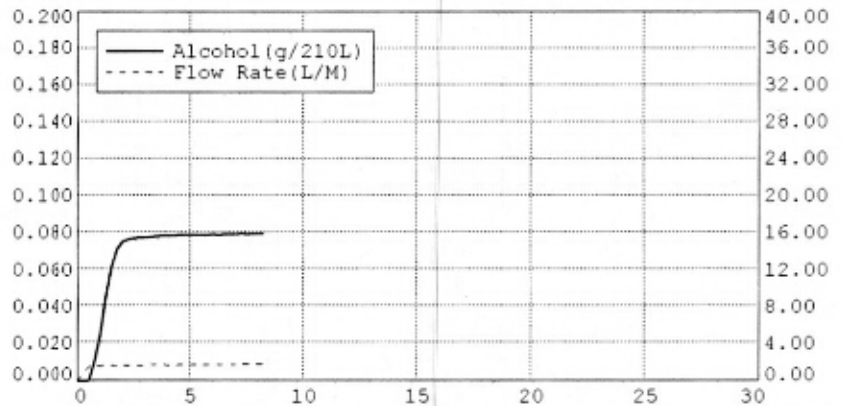
Date: 08/28/2012
 Time: 13:04:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.95: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	13:05
INTERNAL STANDARD	VERIFIED	13:05
EXTERNAL STANDARD	0.079	13:06
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.079	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.080	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.079	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.080	13:10
BLANK TEST	0.000	13:11

Average = 0.0799
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

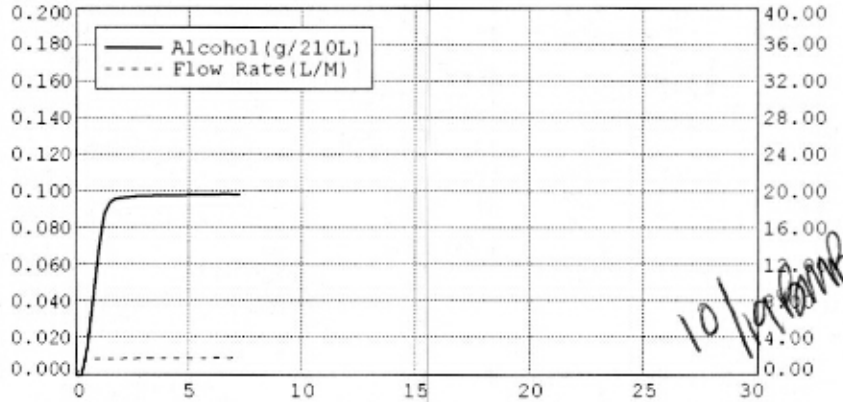
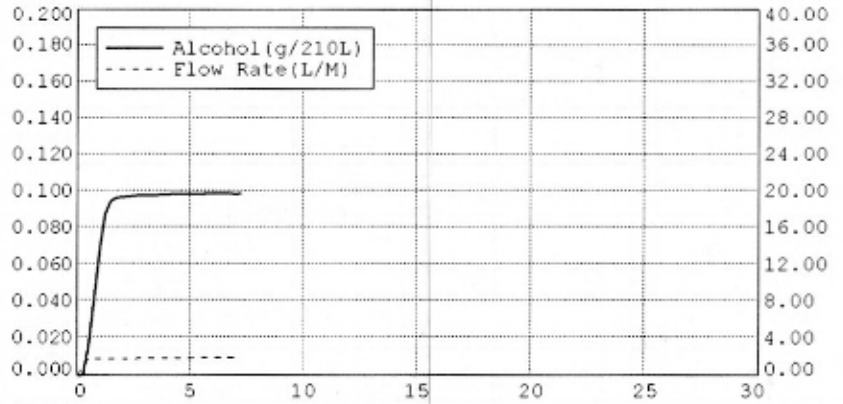
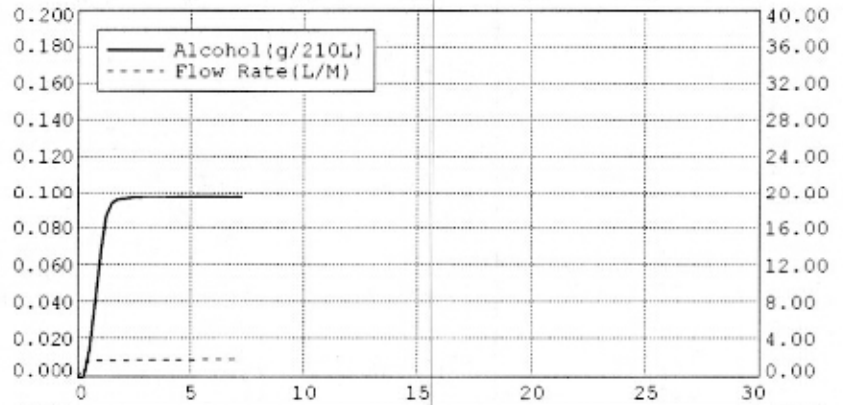
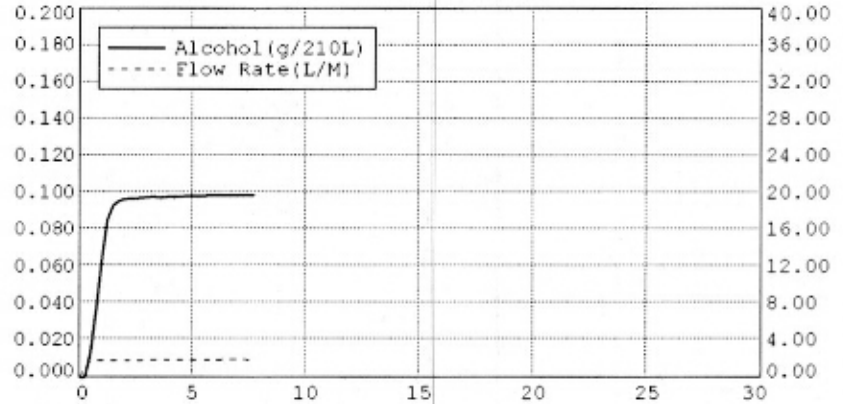
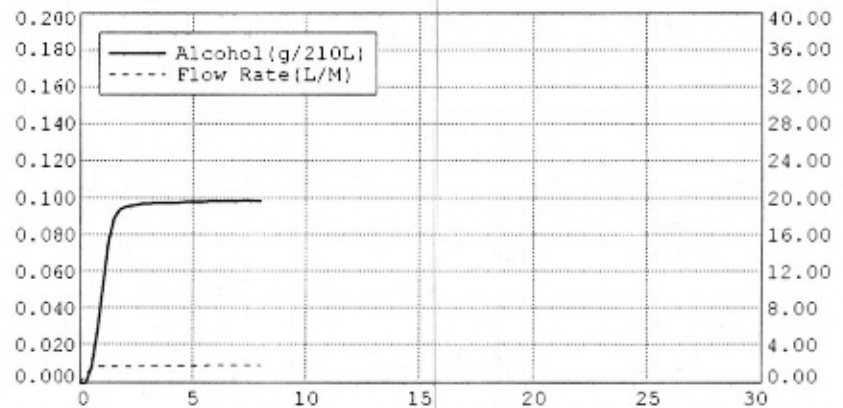
Date: 08/28/2012
 Time: 13:12:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.95: 0.100
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:14
INTERNAL STANDARD	VERIFIED	13:14
EXTERNAL STANDARD	0.099	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.098	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.098	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.099	13:18
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.098	13:19
BLANK TEST	0.000	13:20

Average = 0.0989
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

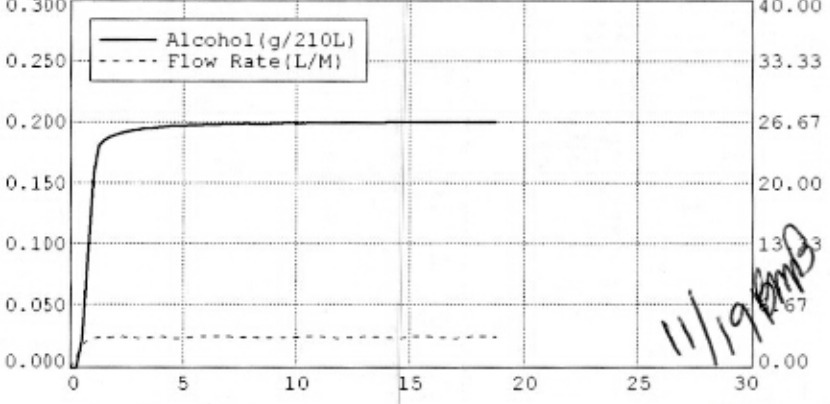
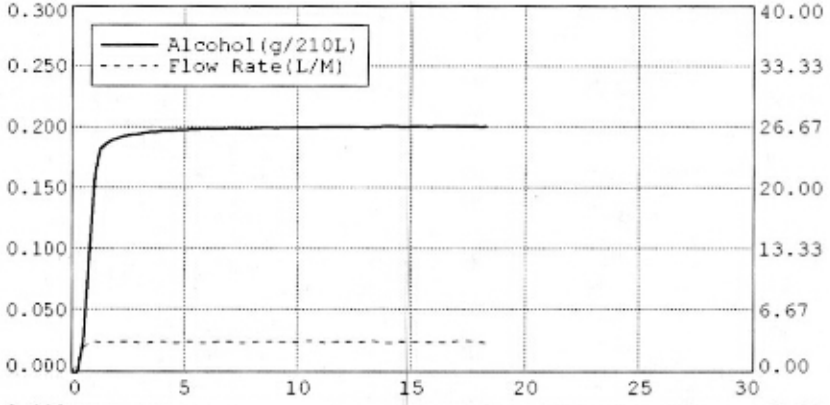
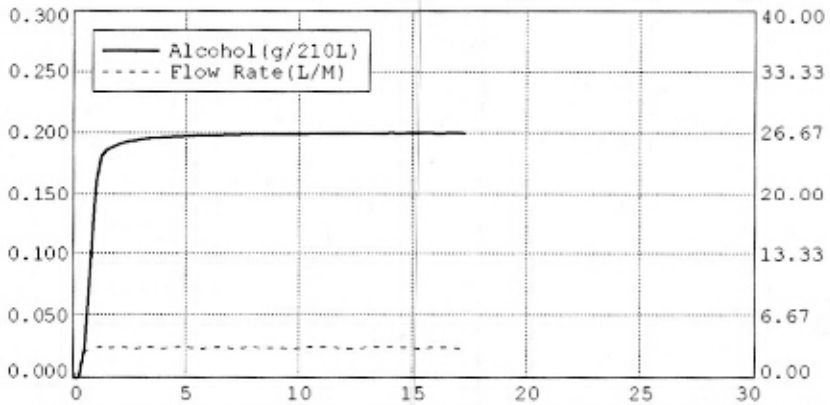
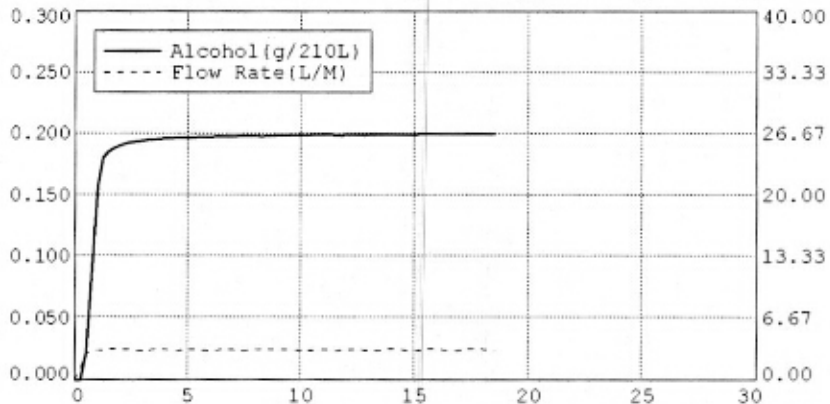
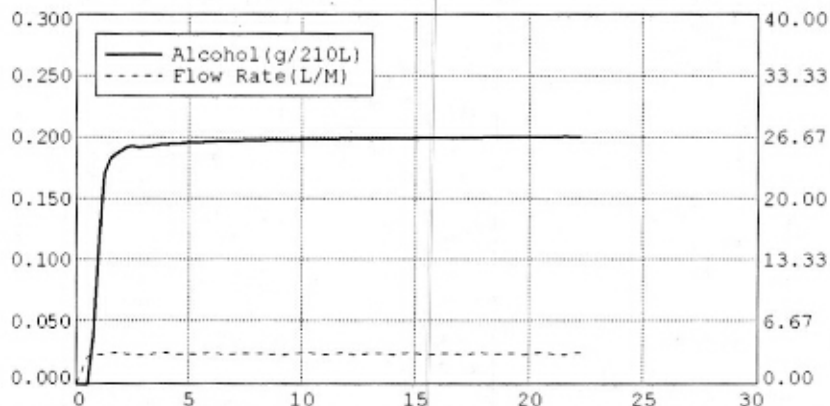
Alaska Department of Public Safety
 DATAMASTER dmt: 100397

Date: 08/28/2012
 Time: 13:38:35

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

BLANK TEST	0.000	13:39
INTERNAL STANDARD	VERIFIED	13:39
EXTERNAL STANDARD	0.201	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.200	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.201	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.201	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.201	13:45
BLANK TEST	0.000	13:46

Average = 0.2011
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

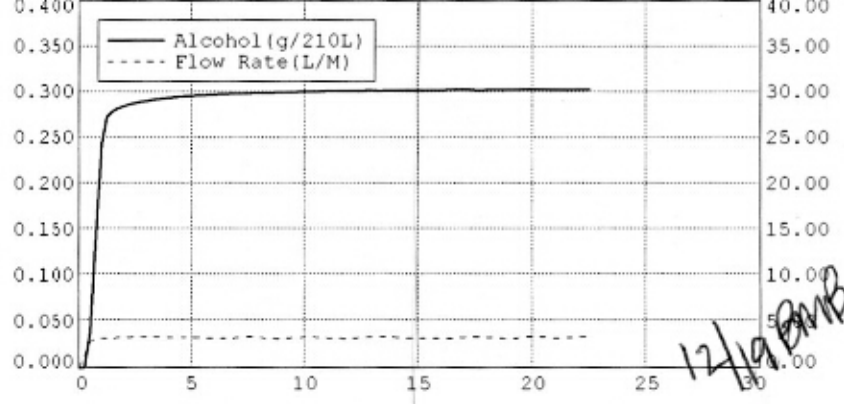
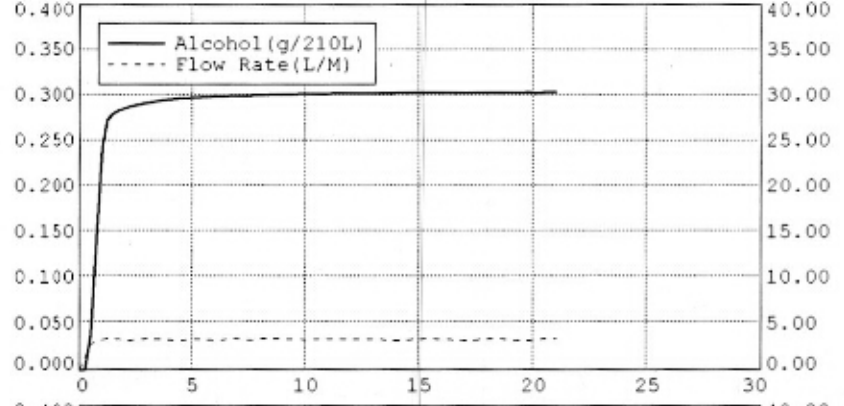
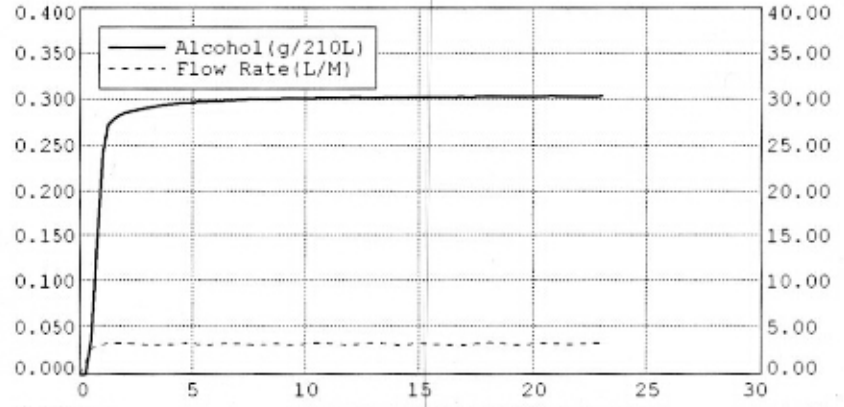
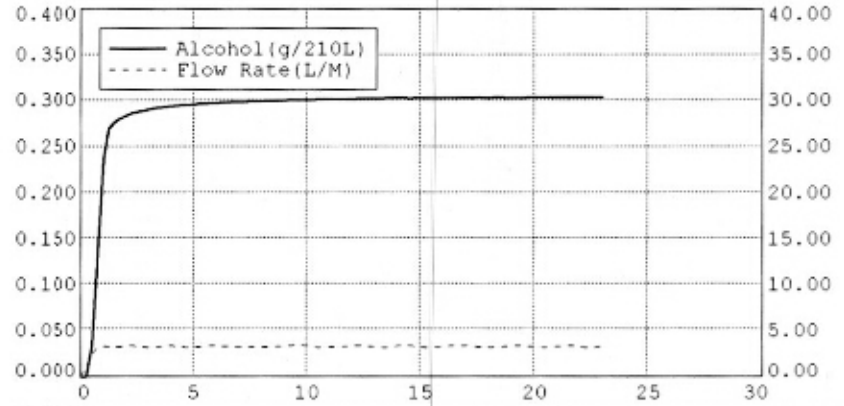
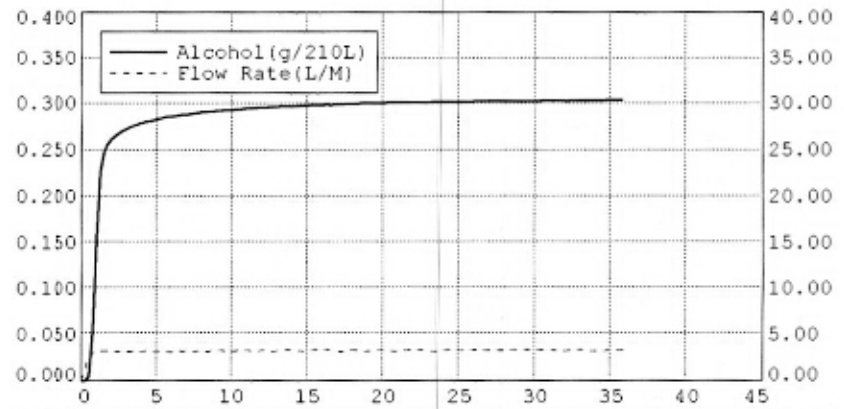
Alaska Department of Public Safety
 DATAMASTER dmt: 100397

Date: 08/28/2012
 Time: 13:52:23

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 11110
 EXPIRATION: 07/13/2013

BLANK TEST	0.000	13:55
INTERNAL STANDARD	VERIFIED	13:55
EXTERNAL STANDARD	0.304	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.304	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.304	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.303	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.303	14:01
BLANK TEST	0.000	14:02

Average = 0.3039
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 08/28/2012
Time: 14:10:40

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

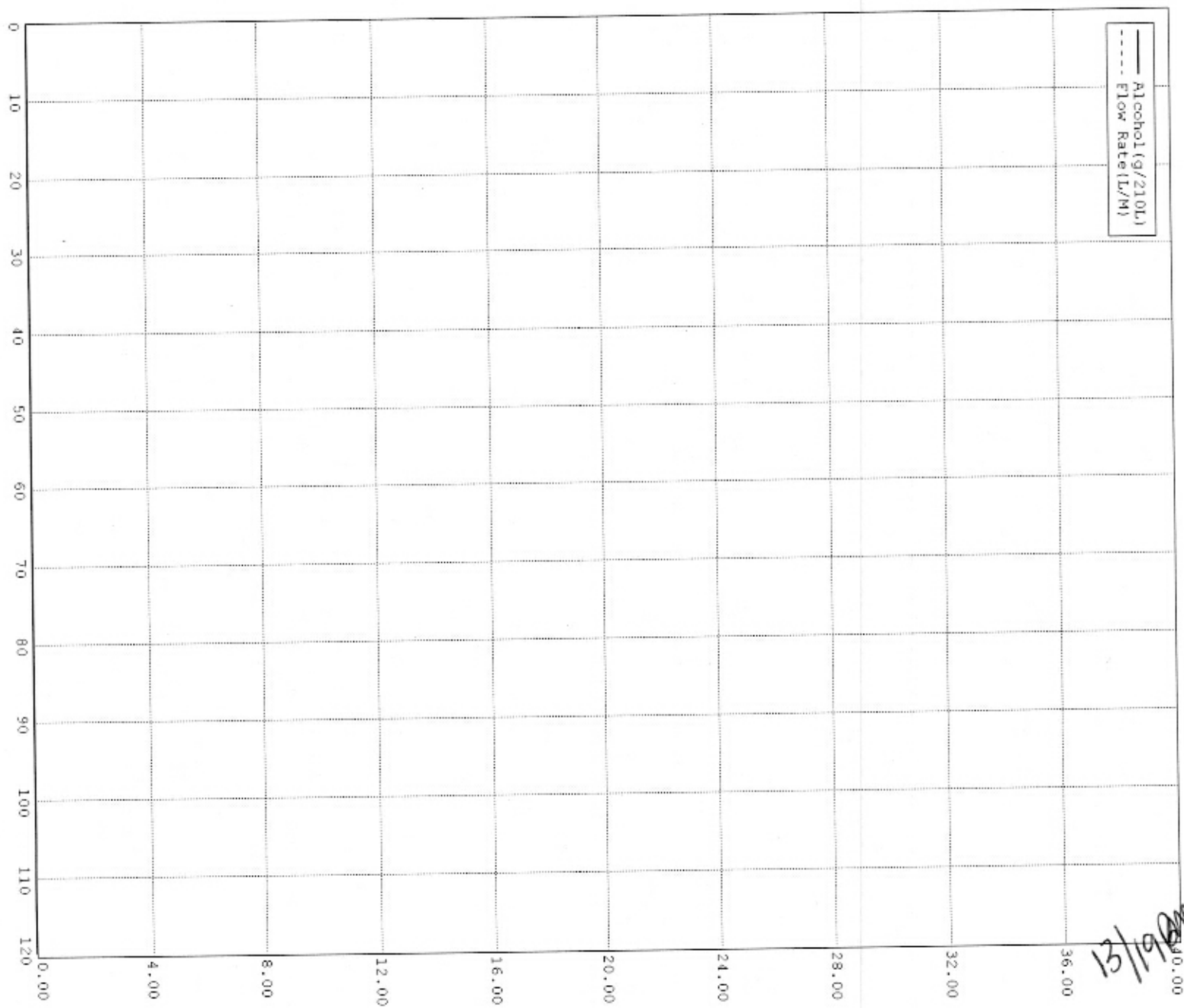
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:12
BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:12
EXTERNAL STANDARD	0.079	14:12
BLANK TEST	0.000	14:13
SUBJECT SAMPLE	INCOMPLETE	14:15

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13/19/2012

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 08/28/2012
Time: 14:18:30

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

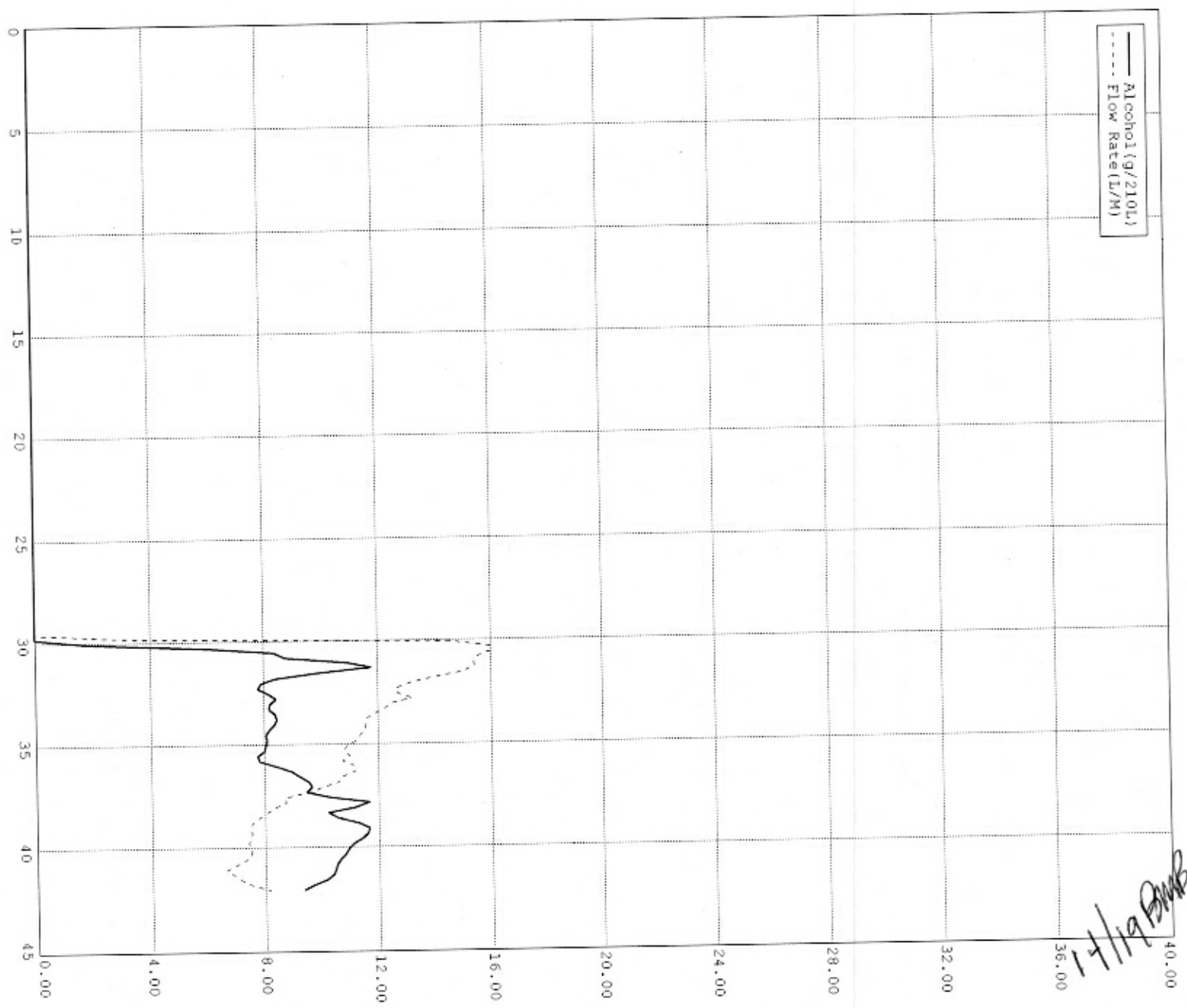
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
INVALID
CASE/REPORT: MOUTH ALCOHOL
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:19
BLANK TEST	0.000	14:19
INTERNAL STANDARD	VERIFIED	14:20
EXTERNAL STANDARD	0.079	14:20
BLANK TEST	0.000	14:21
SUBJECT SAMPLE	INVALID	14:21

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11/19/11

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 08/28/2012
Time: 14:31:55

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

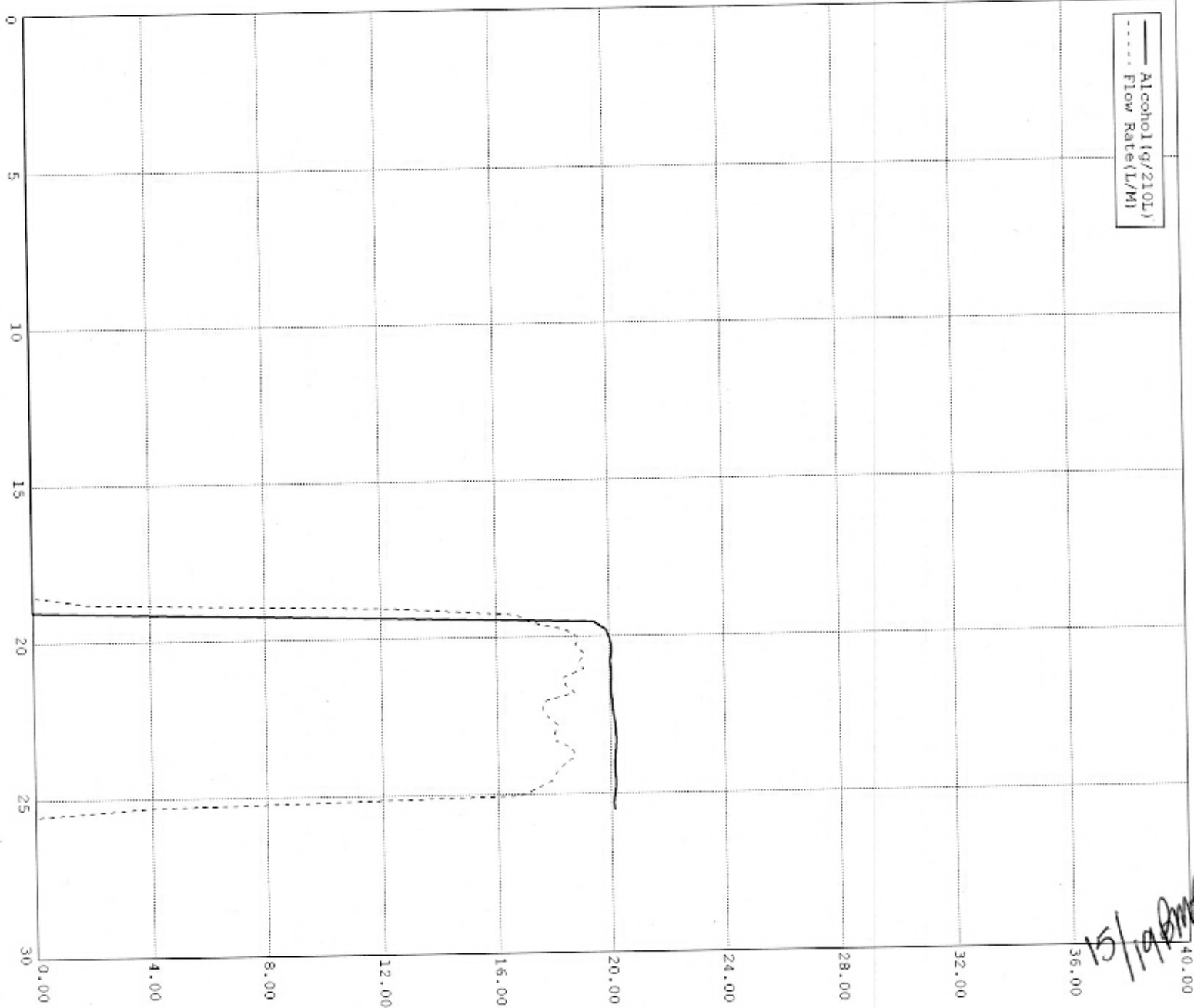
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
INTERFERENCE
CASE/REPORT: ETOH AND ACETONE
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:33
BLANK TEST	0.000	14:33
INTERNAL STANDARD	VERIFIED	14:33
Xg = 0.094 (0.47%)		
EXTERNAL STANDARD	0.080	14:33
X(1) = 0.0802 (-0.0021)	(0.0031)	
BLANK TEST	0.000	14:34
SUBJECT SAMPLE	INTERFERENCE	14:34
X(1) = 0.1011 (-0.0137)	(0.0017)	

BMB



15/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

Date: 08/28/2012
 Time: 14:39:52

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

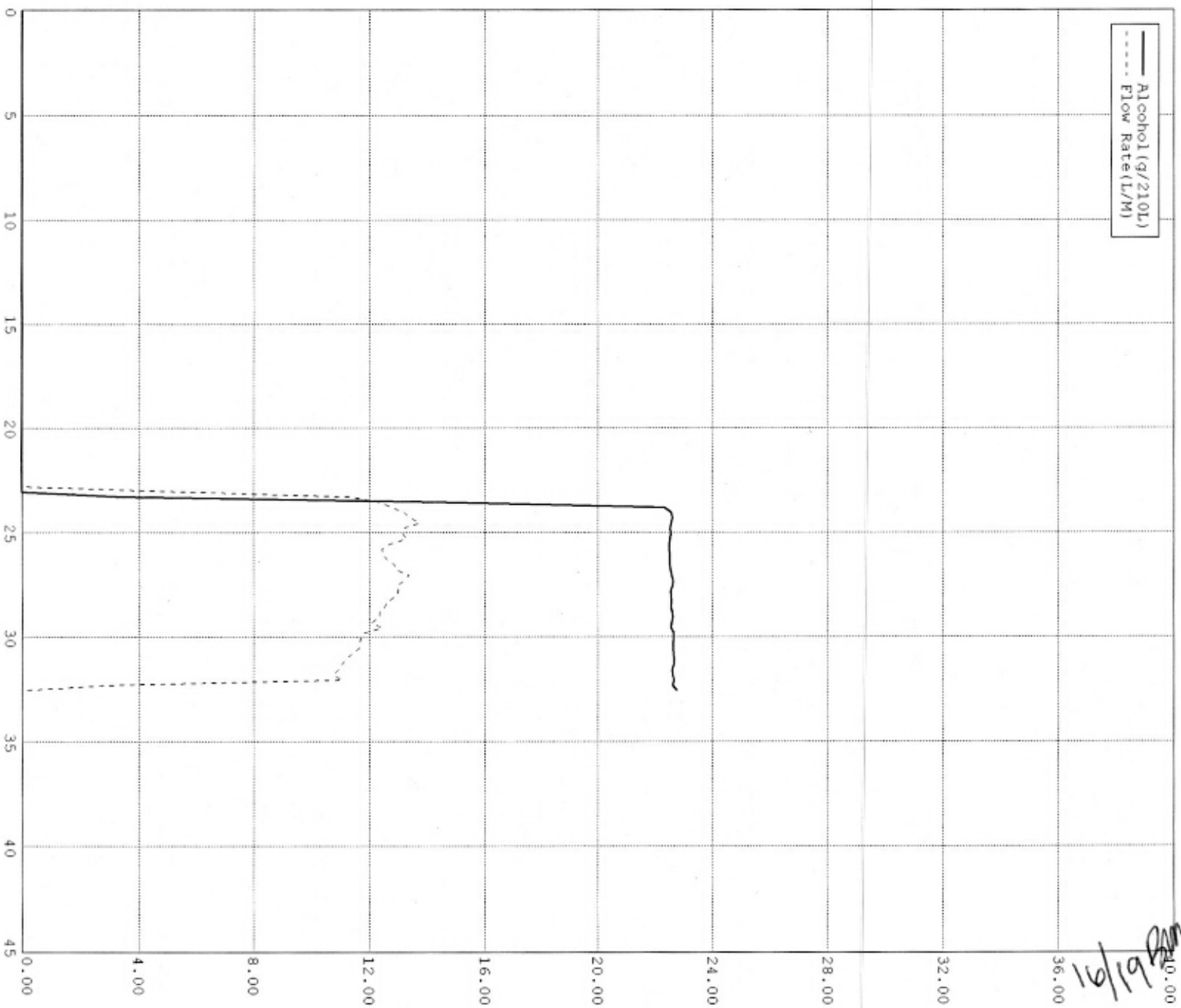
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 INTERFERENCE
 CASE/REPORT: ETOH AND IPA
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.95: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:40
BLANK TEST	0.000	14:40
INTERNAL STANDARD	VERIFIED	14:41
Xq = 0.094 (0.56%)		
EXTERNAL STANDARD	0.079	14:41
X[1] = 0.0796 (-0.0020) (0.0024)		
BLANK TEST	0.000	14:42
SUBJECT SAMPLE	INTERFERENCE	14:42
X[1] = 0.1138 (-0.0285) (0.0025)		

Handwritten signature: BMB



Handwritten notes:
 16/19 BMB
 10.00

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 08/28/2012
Time: 14:45:31

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

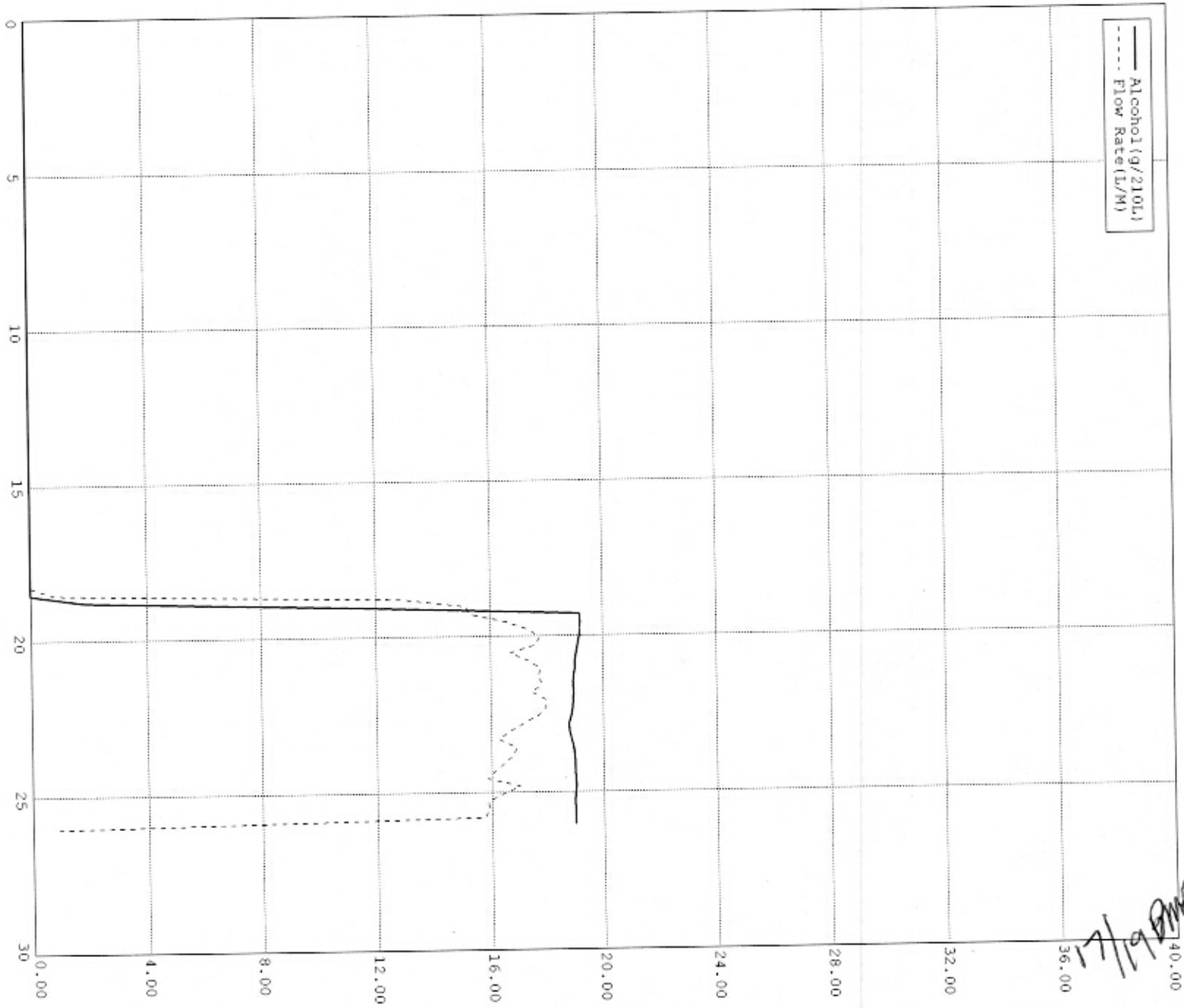
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:47
BLANK TEST	0.000	14:47
INTERNAL STANDARD	VERIFIED	14:47
Xq = 0.093 (0.288)		
EXTERNAL STANDARD	0.080	14:47
X[1] = 0.0800 (-0.0024) (0.0027)		
BLANK TEST	0.000	14:48
SUBJECT SAMPLE (Vol=2.02L)	0.095	14:49
X[1] = 0.0953 (0.0000) (0.0018)		
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.079	14:50
X[1] = 0.0796 (-0.0026) (0.0013)		
BLANK TEST	0.000	14:51

BMB



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SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100397

Date: 08/28/2012
 Time: 14:24:56

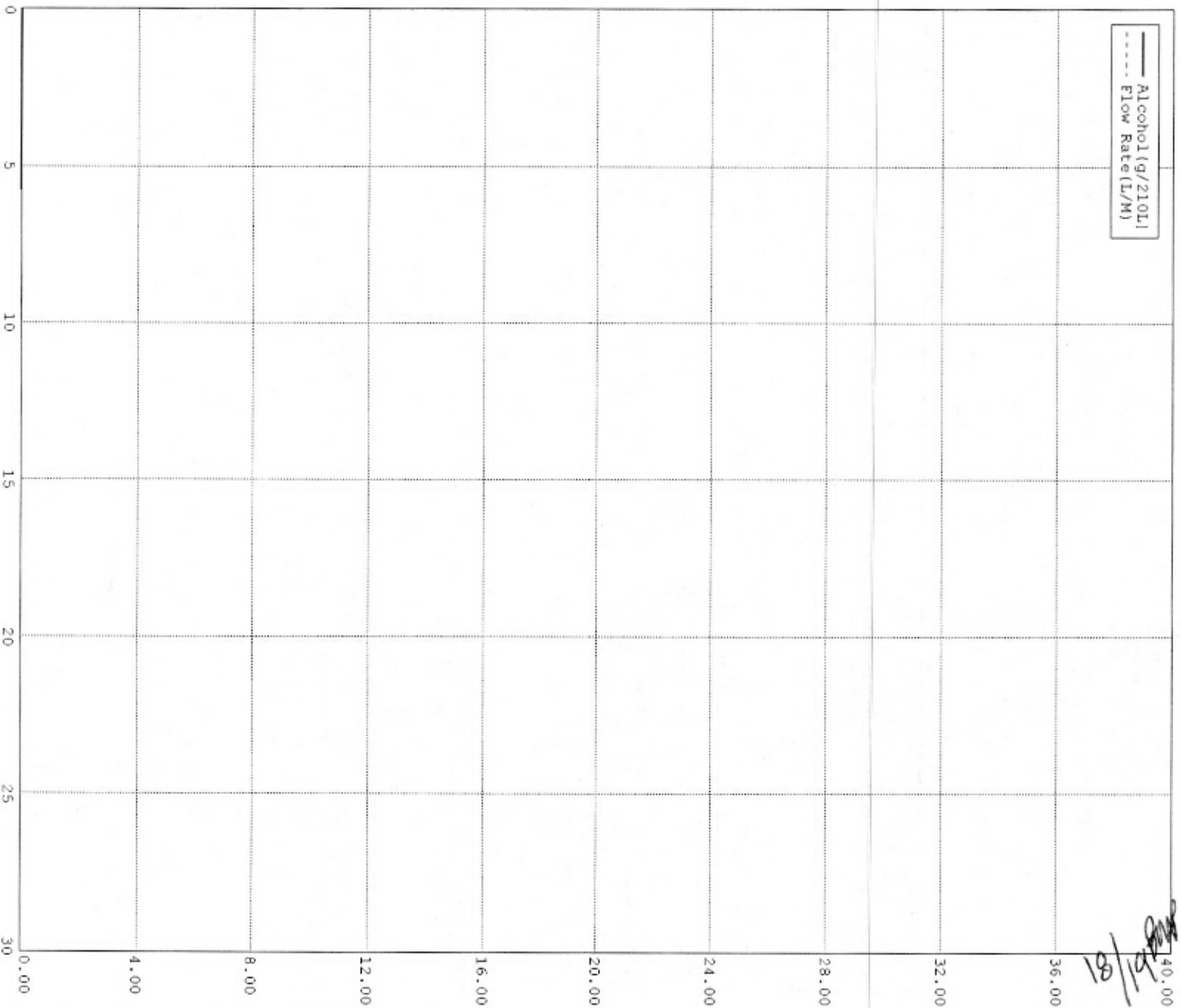
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 RADIO FREQUENCY INTERFERENCE
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.95: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK
 BLANK TEST PASSED 14:25
 INTERNAL STANDARD VERIFIED 14:26
 EXTERNAL STANDARD 0.080 14:26
 BLANK TEST 0.000 14:27
 RFI DETECTED



Handwritten signature and date: 8/28/12

SUBJECT TEST

Alaska Department of Public Safety
DARAMASTER dnt: 100397

Date: 08/29/2012
Time: 09:15:08

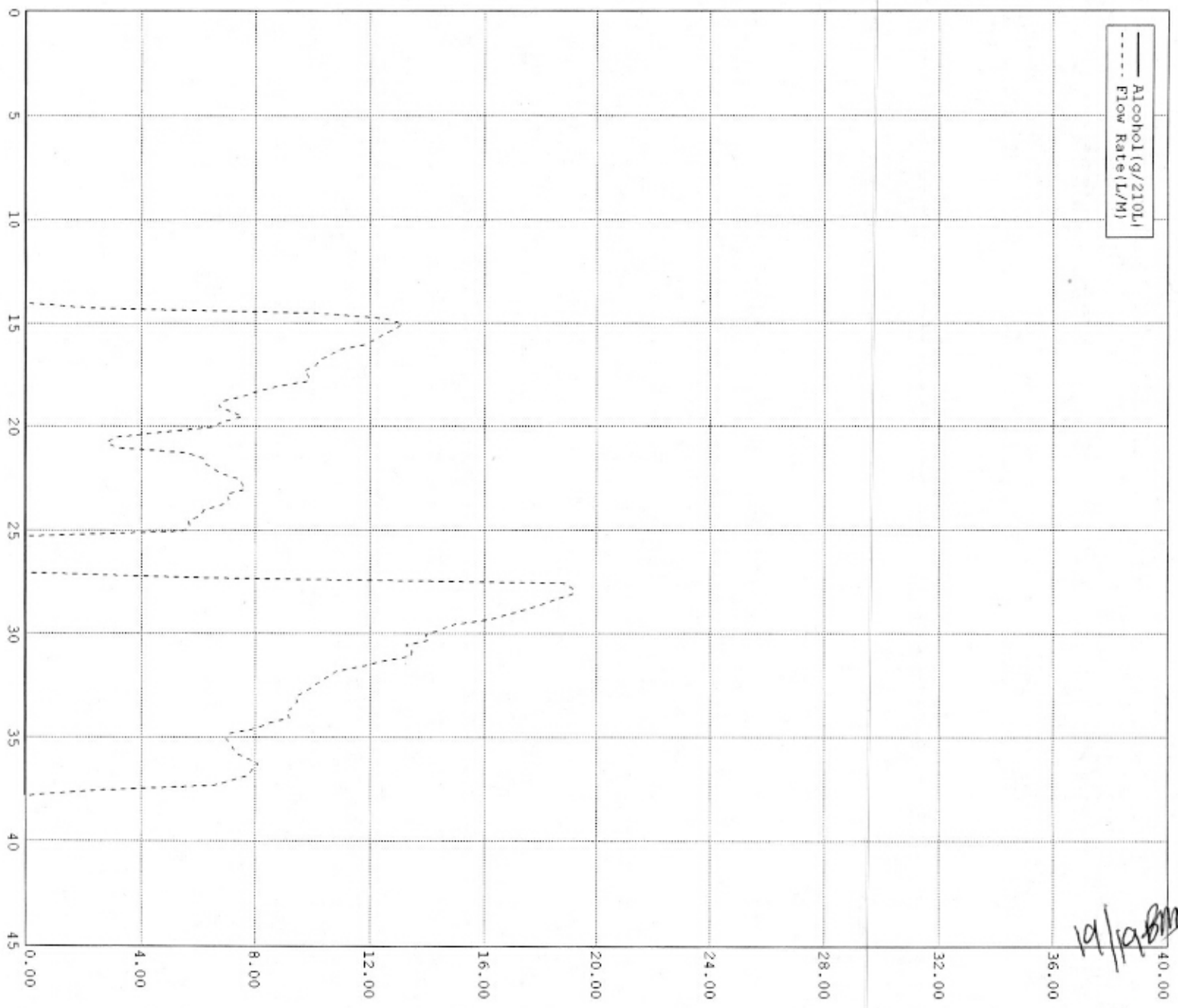
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.91: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK
BLANK TEST PASSED 09:16
INTERNAL STANDARD VERIFIED 09:16
EXTERNAL STANDARD 0.079 09:16
BLANK TEST 0.000 09:17
SUBJECT SAMPLE 0.000 09:18
BLANK TEST 0.000 09:19
EXTERNAL STANDARD 0.079 09:19
BLANK TEST 0.000 09:20



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Final page for report

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7/3/2014