

# Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

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

Version: DMCEF2012 R1  
Status: Active

Instrument S/N 100396 Analyst Brandi Barnett Start Date 8/14/12

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 1500mL mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf ILMO Lot 07611070A5 Exp 03/01/13

ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/13

iii. 0.080g/210L Mnf ILMO Lot 02012090A1 Exp 03/01/14

iv. 0.100g/210L Mnf ILMO Lot 0761100A3 Exp 03/01/13

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

1. Simulator S/N SD1198 Date Calibrated 01/10/12

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

1. Simulator S/N DR4178 Date Calibrated 02/21/12

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Guth Lot 0.11250 Level 0.100 Exp 12/6/2013

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

ii. Isopropanol - Mnf Guth Lot 11100 Level 0.100 Exp 7/06/13

1. Simulator S/N DR1267 Date Calibrated 01/10/2012

iii. Negative Control - Mnf Guth Lot 11270 Level 0.100 Exp 10/24/13

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

d. RFI

6. Verify stylus is calibrated

10. Verification of Calibration

7. Verify card reader is functional

11. Non-Drinking Subject Test (attached)

8. Reset Options

12. Upload

9. Clear Memory

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

End Date 8/17/12

*1/19 BMB*

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100396  
-----

Date: 08/14/2012  
Time: 15:21:48

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED  
Breath Tube = 48.0°C PASSED

PUMP INFO  
Flow Rate = 5.645 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

2/17 BMB

Technician Screen

-----  
DATAMASTER dmt: 100396  
-----

Date: 08/14/2012  
Time: 3:48 PM

Temperatures (°C)

Sample Cell: 49.6°C  
Breath Tube: 47.6°C

Current Barometer 29.9 in  
Volume (Ltr) 1.53

Settings

Lamp: 1.85 V  
Bias: 80 V  
Cooler: 1.83 V  
Chopper: 538 Hz

Voltages (V)

Flow: 1.08 V  
Detector: -0.032 V

3/19 BMB

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100396  
-----

Date: 04/28/2011  
Time: 15:10:13

Ca = 0.1000  
CAL = 1.000388    0.800 <= CAL < 1.200  
b1 = 0.0000    0.0000 <= b1 < 0.0040  
b2 = 0.0052    0.0010 <= b2 < 0.0100  
b3 = 0.0000    0.0000 <= b3 < 0.0040  
Xq = 0.1073    0.0500 <= Xq < 0.2000  
a21 = 1.177777    1.050 <= a21 < 1.300  
a31 = 0.424440    0.300 <= a31 < 0.800

4/19 BMB

SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100396

Date: 08/14/2012  
 Time: 15:57:53

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

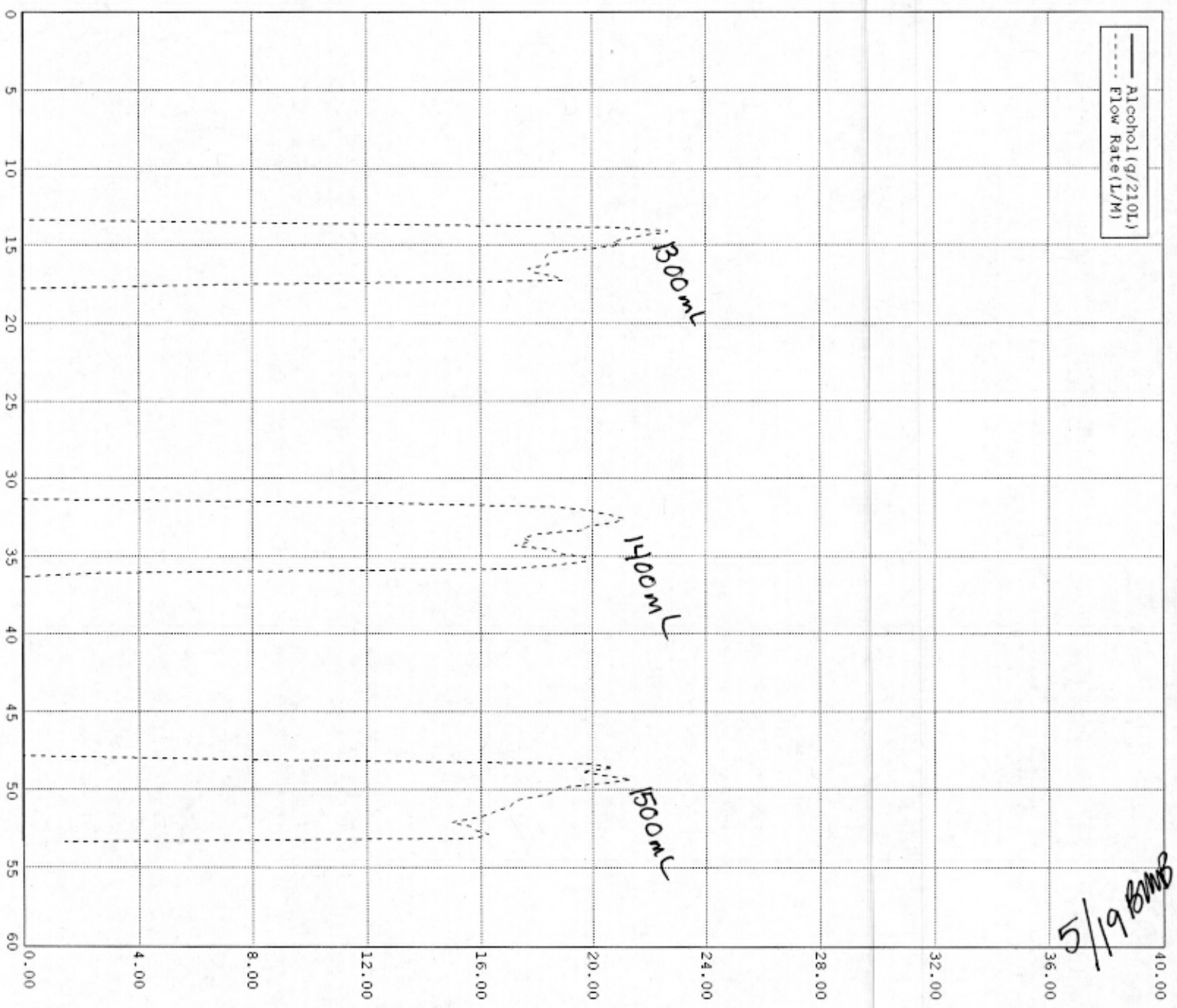
OPERATOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.94: 0.080  
 LOT #: 02012080A1  
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:58
BLANK TEST	0.000	15:59
INTERNAL STANDARD	VERIFIED	15:59
EXTERNAL STANDARD	0.081	15:59
BLANK TEST	0.000	16:00
SUBJECT SAMPLE	0.000	16:01
BLANK TEST	0.000	16:02
EXTERNAL STANDARD	0.081	16:02
BLANK TEST	0.000	16:03

*BBMB*



LINEARITY CHECK

Alaska Department of Public Safety  
 DATAMASTER dmt: 100396

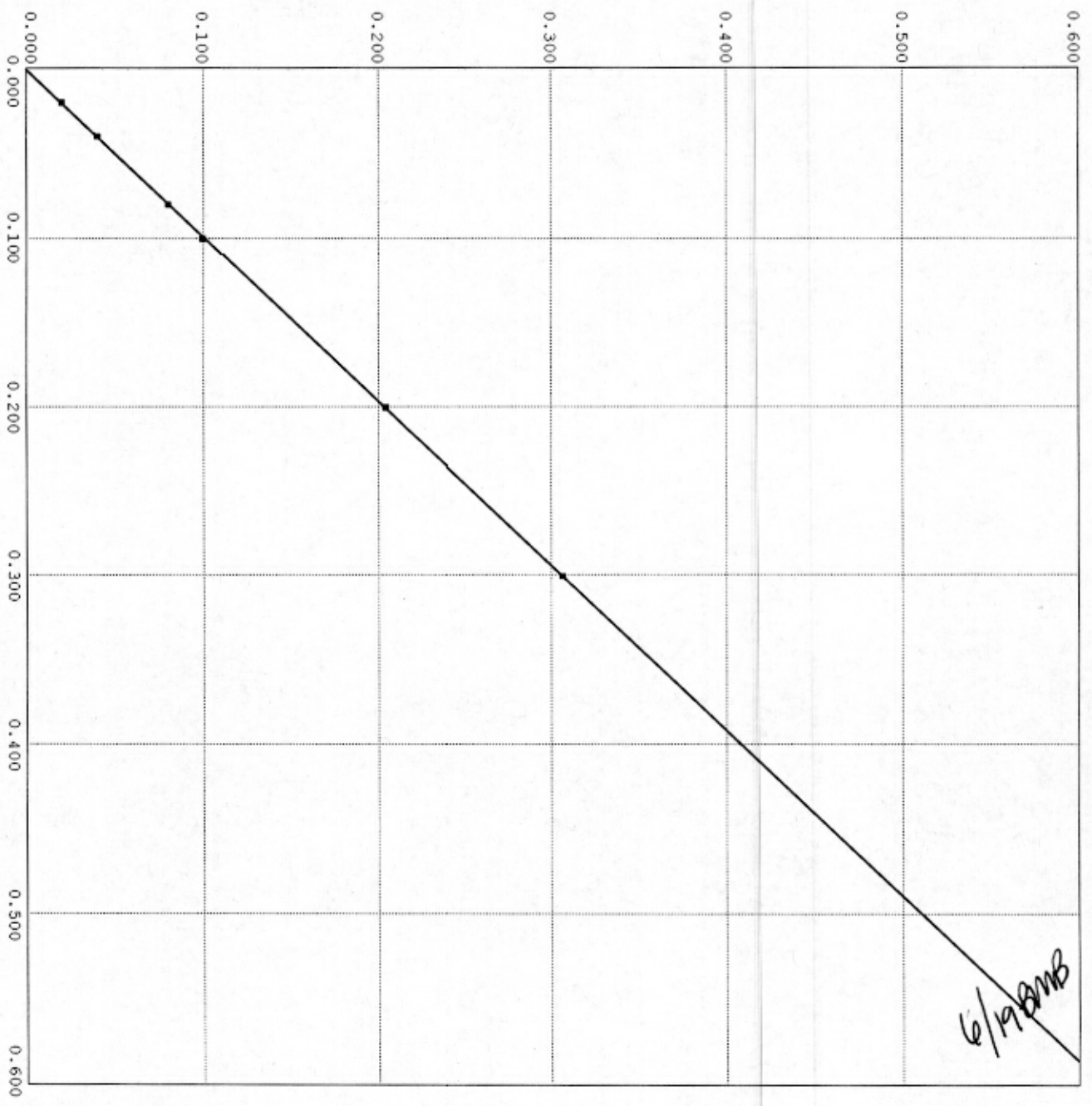
Date: 08/15/2012  
 Time: 13:42:38

SUPERVISOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0206	0.0003
0.040	0.0410	0.0002
0.080	0.0811	0.0003
0.100	0.1006	0.0003
0.200	0.2048	0.0006
0.300	0.3072	0.0004

SLOPE = 1.025257  
 R² = 0.999954

*Brandl*



*Brandl  
 8/15/12*

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100396

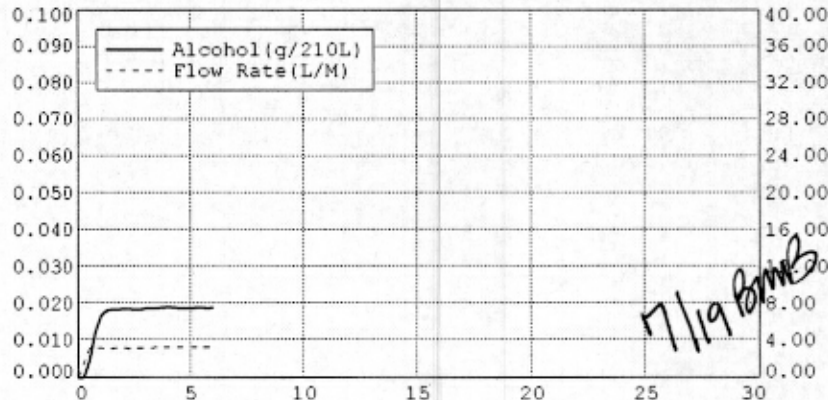
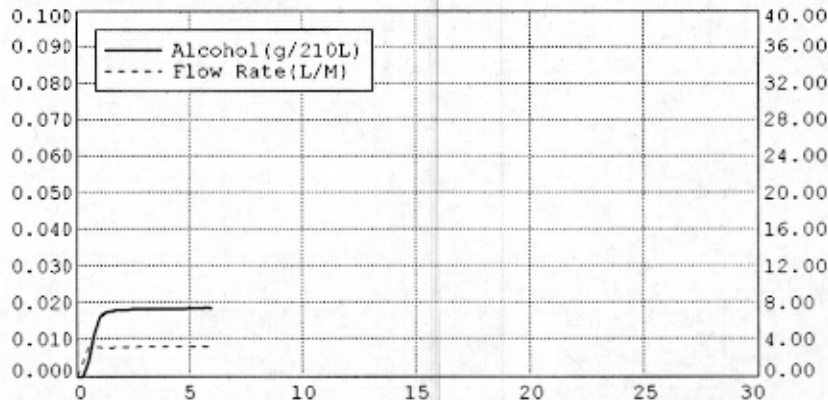
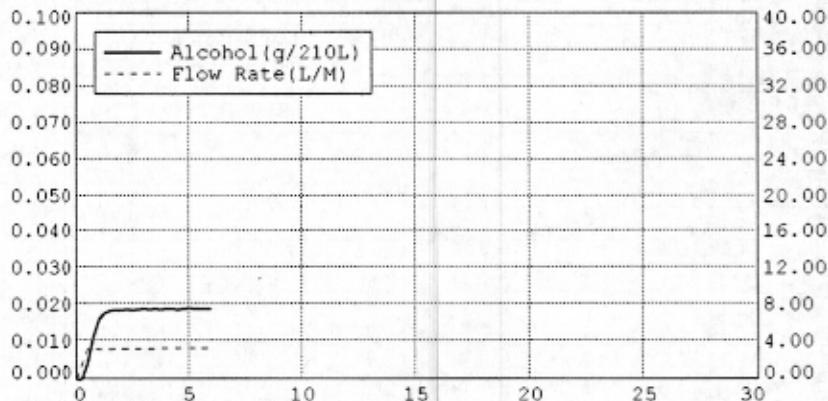
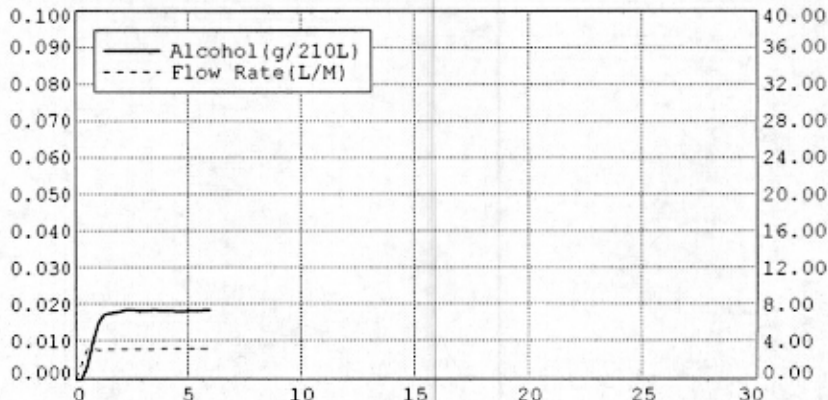
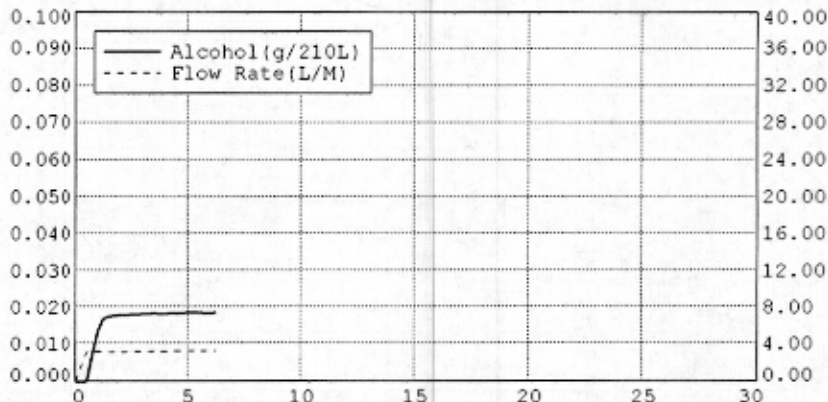
Date: 08/15/2012  
 Time: 13:42:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.97: 0.020  
 LOT #: 07611020A5  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:43
INTERNAL STANDARD	VERIFIED	13:43
EXTERNAL STANDARD	0.020	13:44
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.020	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.020	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.020	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.020	13:48
BLANK TEST	0.000	13:49

Average = 0.0206  
 Std Dev = 0.0003



7/19 Barnett

LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100396

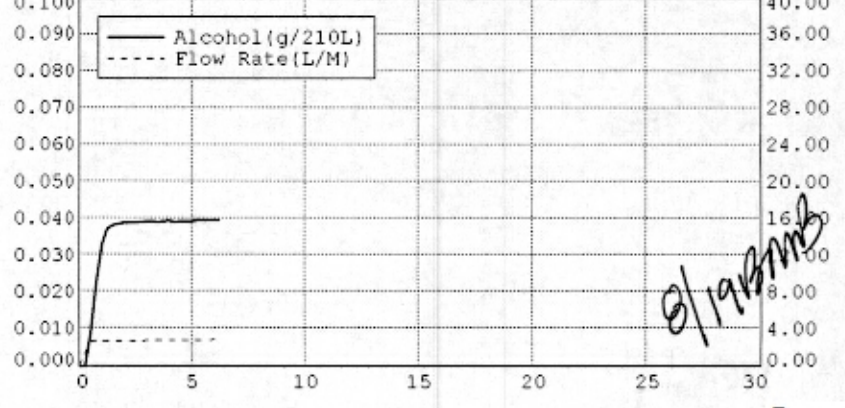
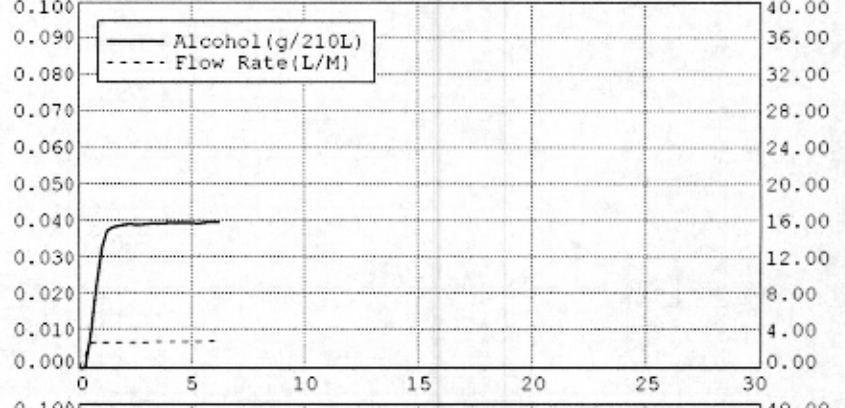
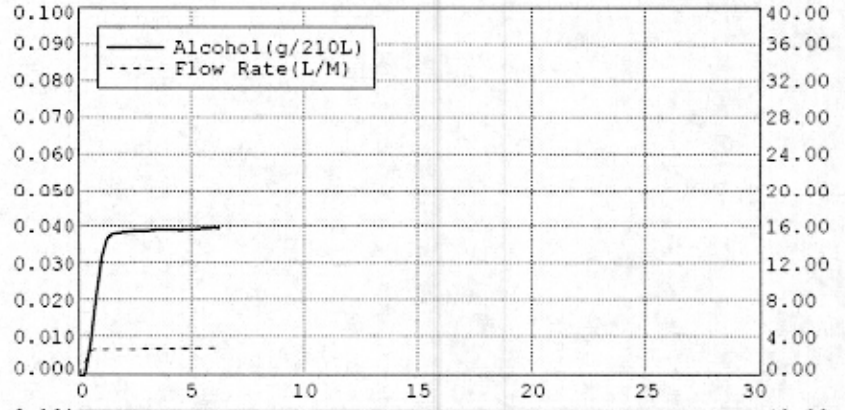
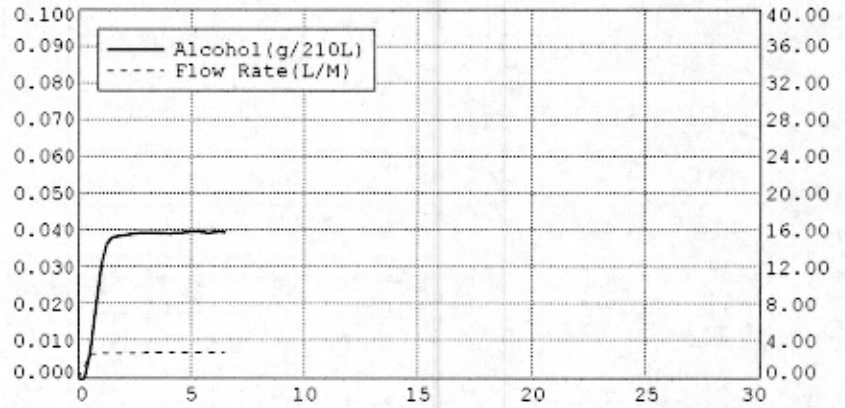
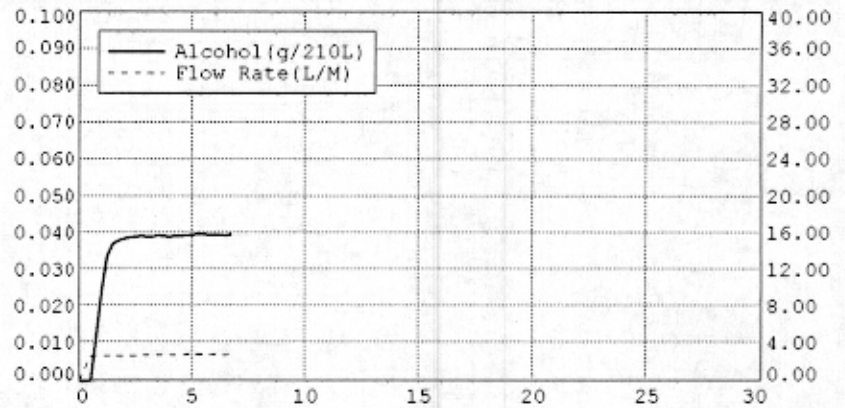
Date: 08/15/2012  
 Time: 13:52:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
 TARGET AT 29.97: 0.040  
 LOT #: 07611040A4  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:53
INTERNAL STANDARD	VERIFIED	13:54
EXTERNAL STANDARD	0.041	13:54
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.041	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.040	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.041	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.041	13:58
BLANK TEST	0.000	13:59

Average = 0.0410  
 Std Dev = 0.0002





LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
 DATAMASTER dmt: 100396

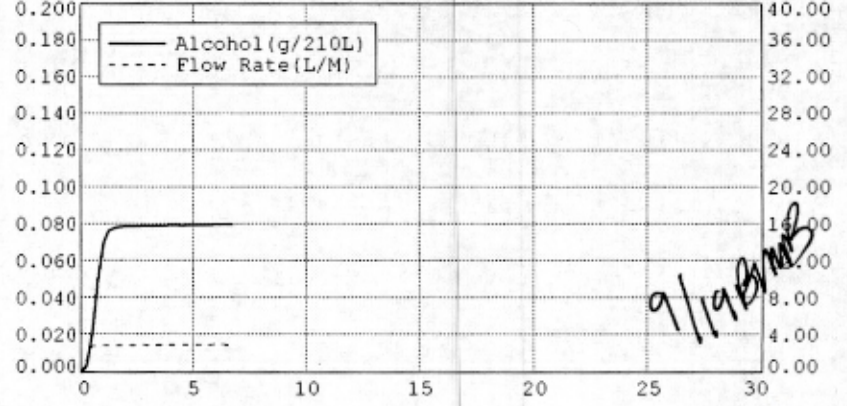
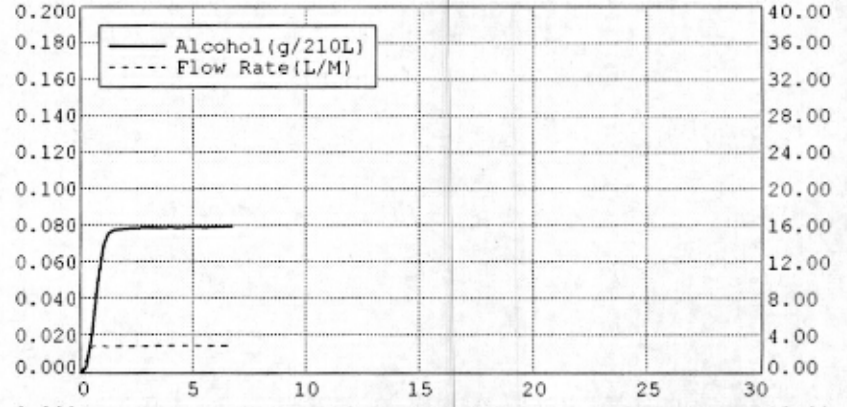
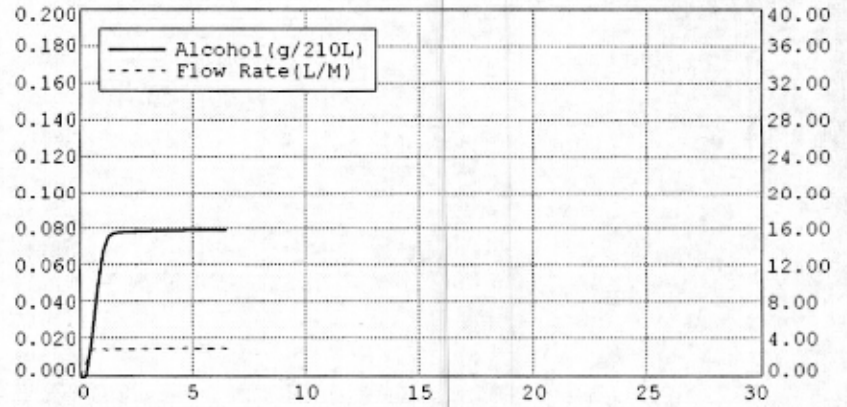
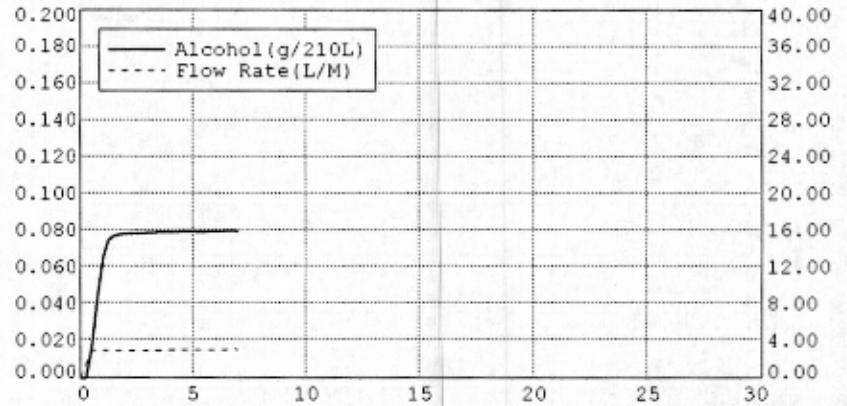
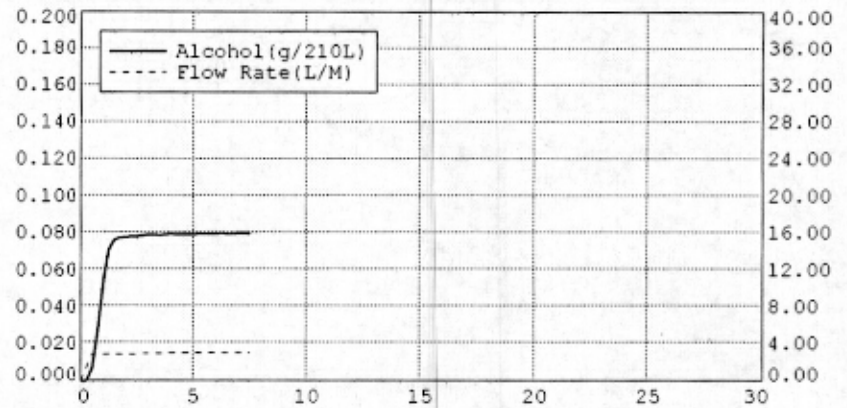
Date: 08/15/2012  
 Time: 14:11:43

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:13
EXTERNAL STANDARD	0.081	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.080	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.081	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.081	14:16
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.081	14:17
BLANK TEST	0.000	14:18

Average = 0.0811  
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
 DATAMASTER dmt: 100396

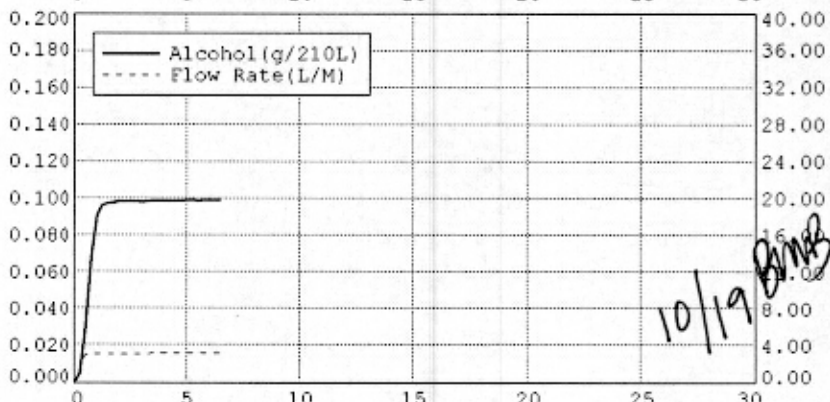
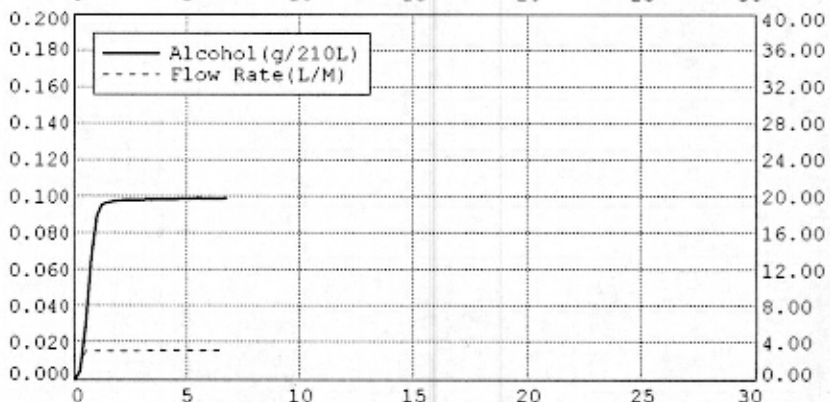
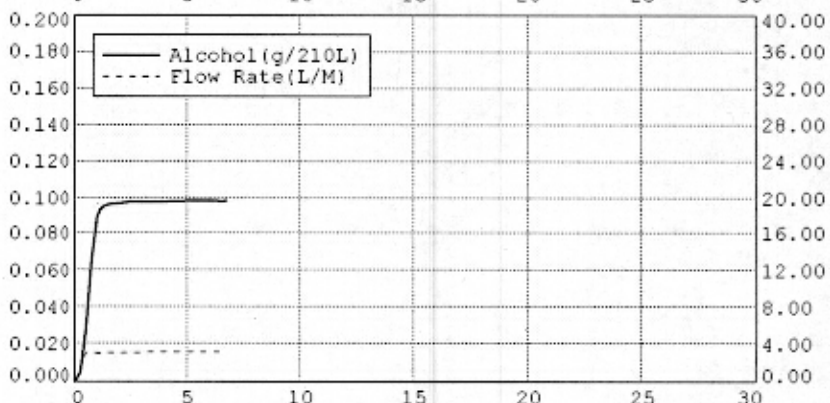
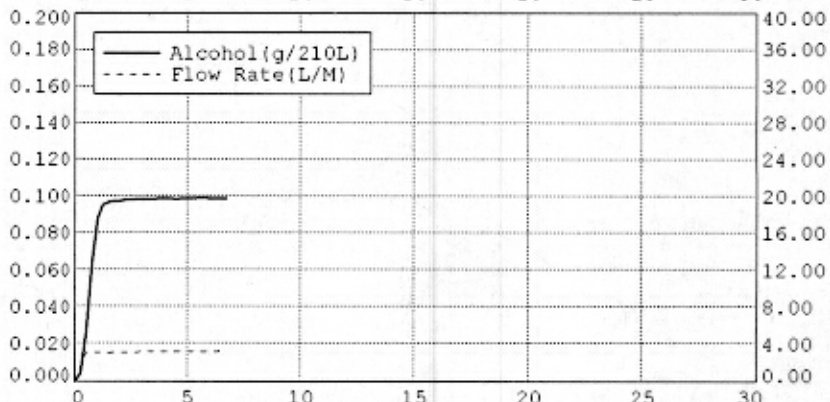
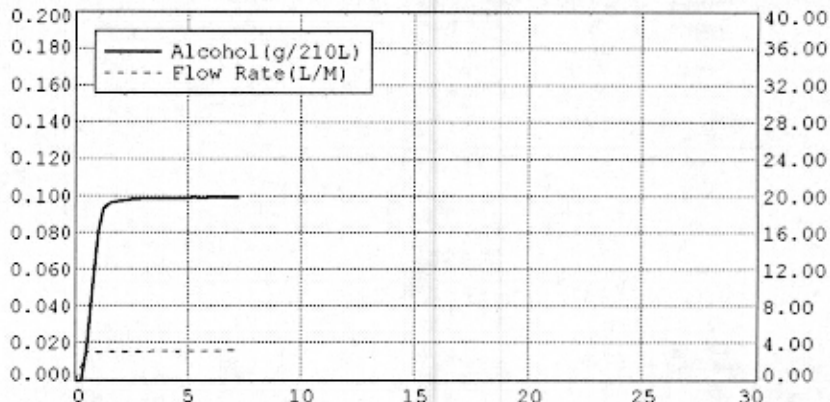
Date: 08/15/2012  
 Time: 14:22:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
 TARGET AT 29.96: 0.100  
 LOT #: 07611100A3  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:24
INTERNAL STANDARD	VERIFIED	14:24
EXTERNAL STANDARD	0.101	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.100	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.100	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.100	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.100	14:29
BLANK TEST	0.000	14:29

Average = 0.1006  
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

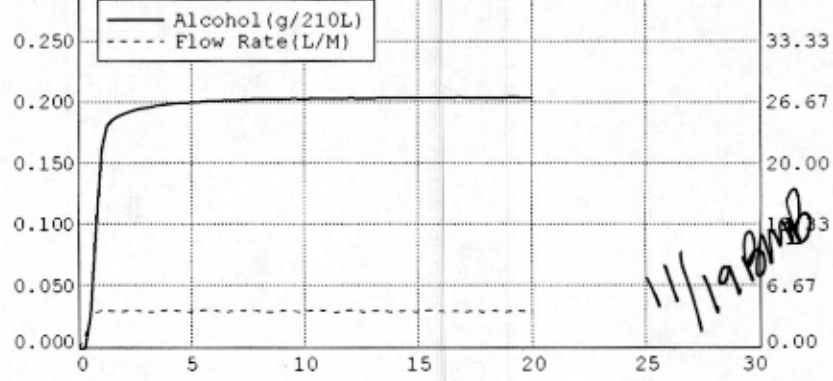
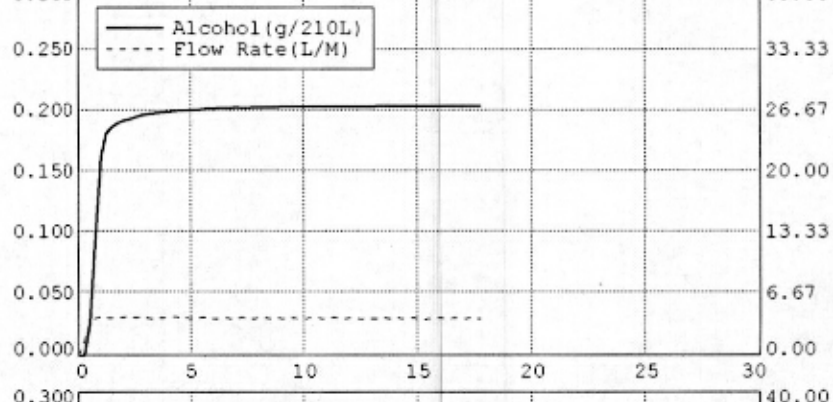
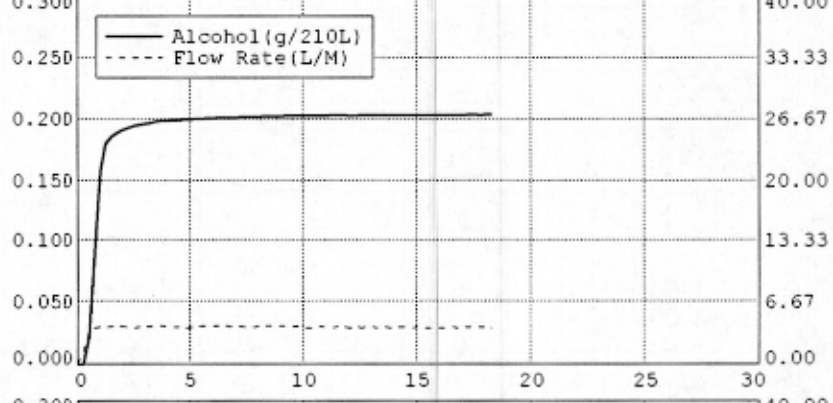
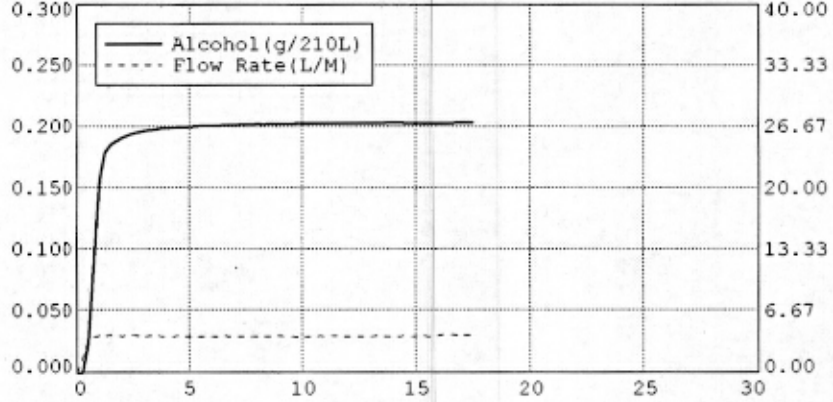
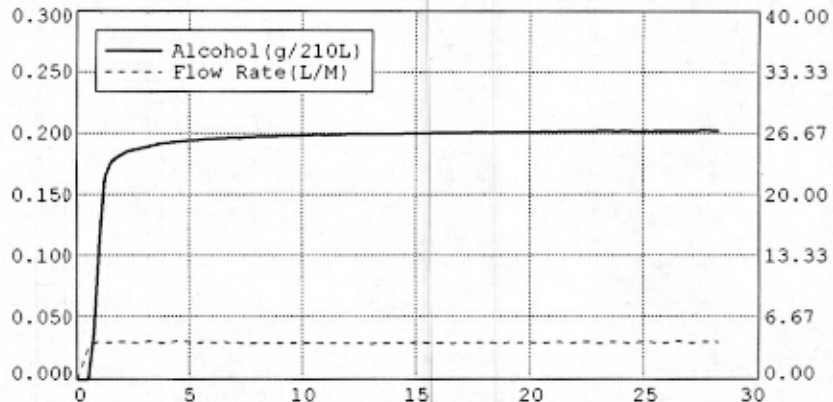
Alaska Department of Public Safety  
 DATAMASTER dmt: 100396

Date: 08/15/2012  
 Time: 14:37:29

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

BLANK TEST	0.000	14:38
INTERNAL STANDARD	VERIFIED	14:39
EXTERNAL STANDARD	0.204	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.204	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.204	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.205	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.205	14:44
BLANK TEST	0.000	14:45

Average = 0.2048  
 Std Dev = 0.0006



## LINEARITY CHECK: Control Test 6

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 Alaska Department of Public Safety  
 DATAMASTER dmt: 100396  
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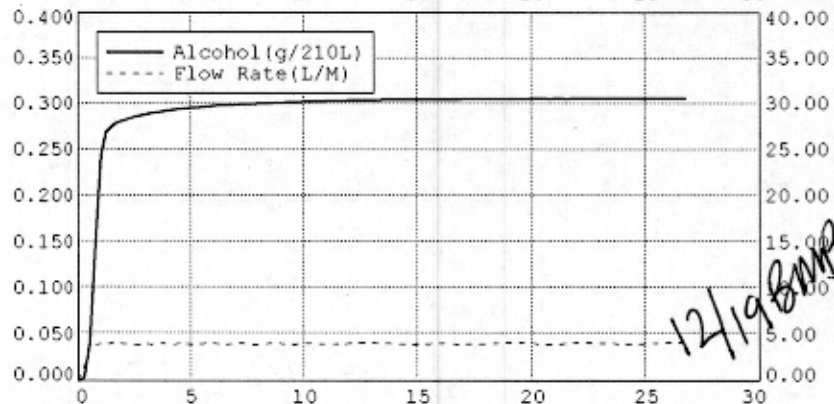
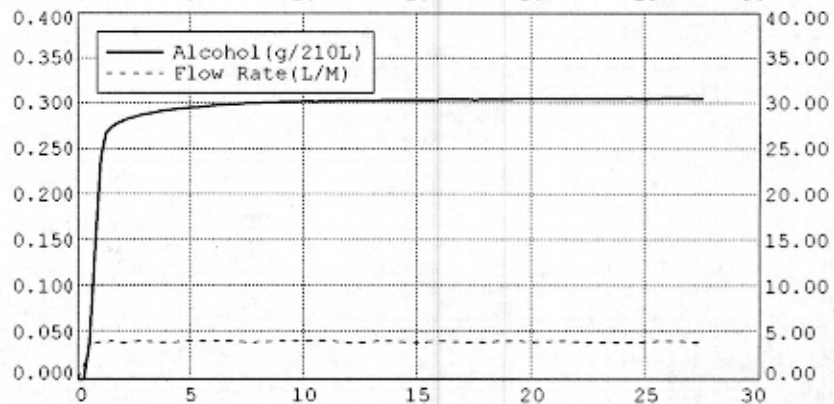
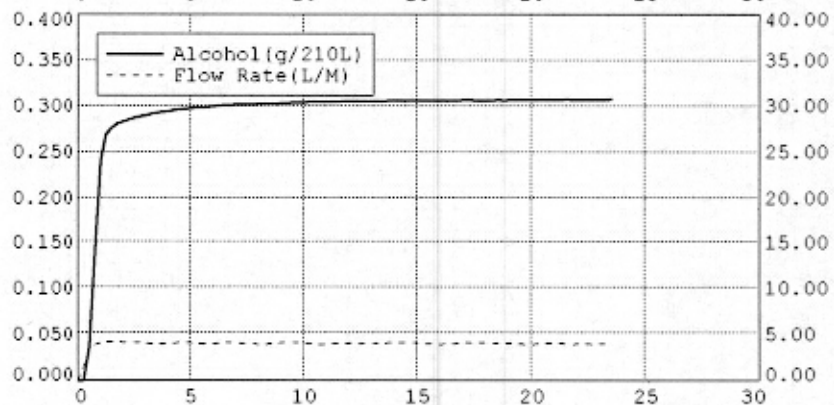
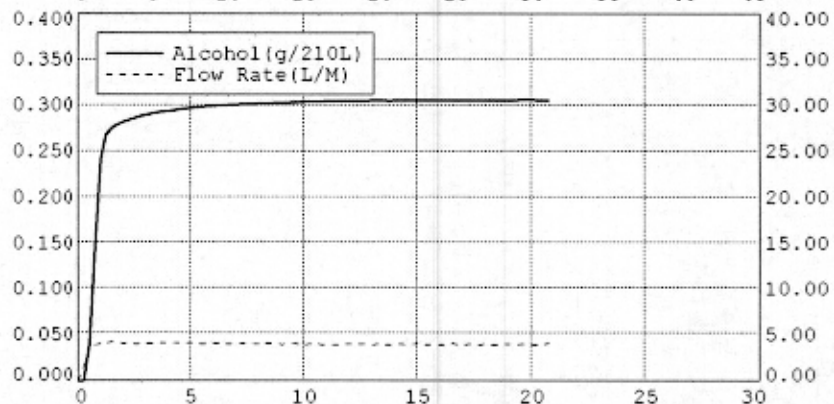
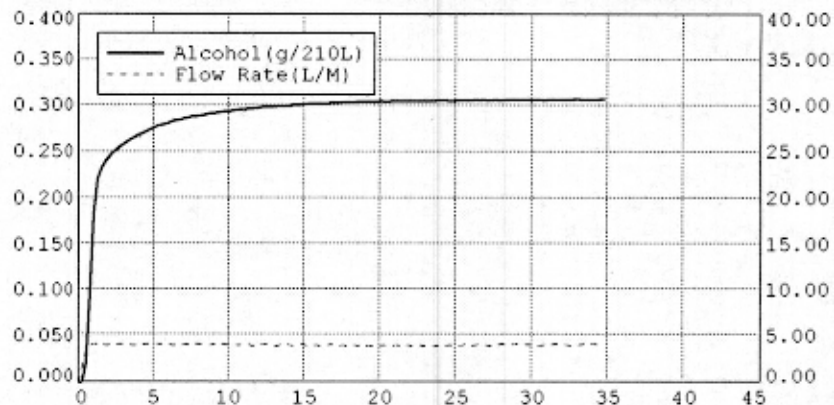
Date: 08/15/2012  
 Time: 14:53:26

## EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:54
INTERNAL STANDARD	VERIFIED	14:54
EXTERNAL STANDARD	0.307	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.306	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.307	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.306	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.307	15:01
BLANK TEST	0.000	15:02

Average = 0.3072  
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100396

Date: 08/15/2012  
Time: 15:16:50

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

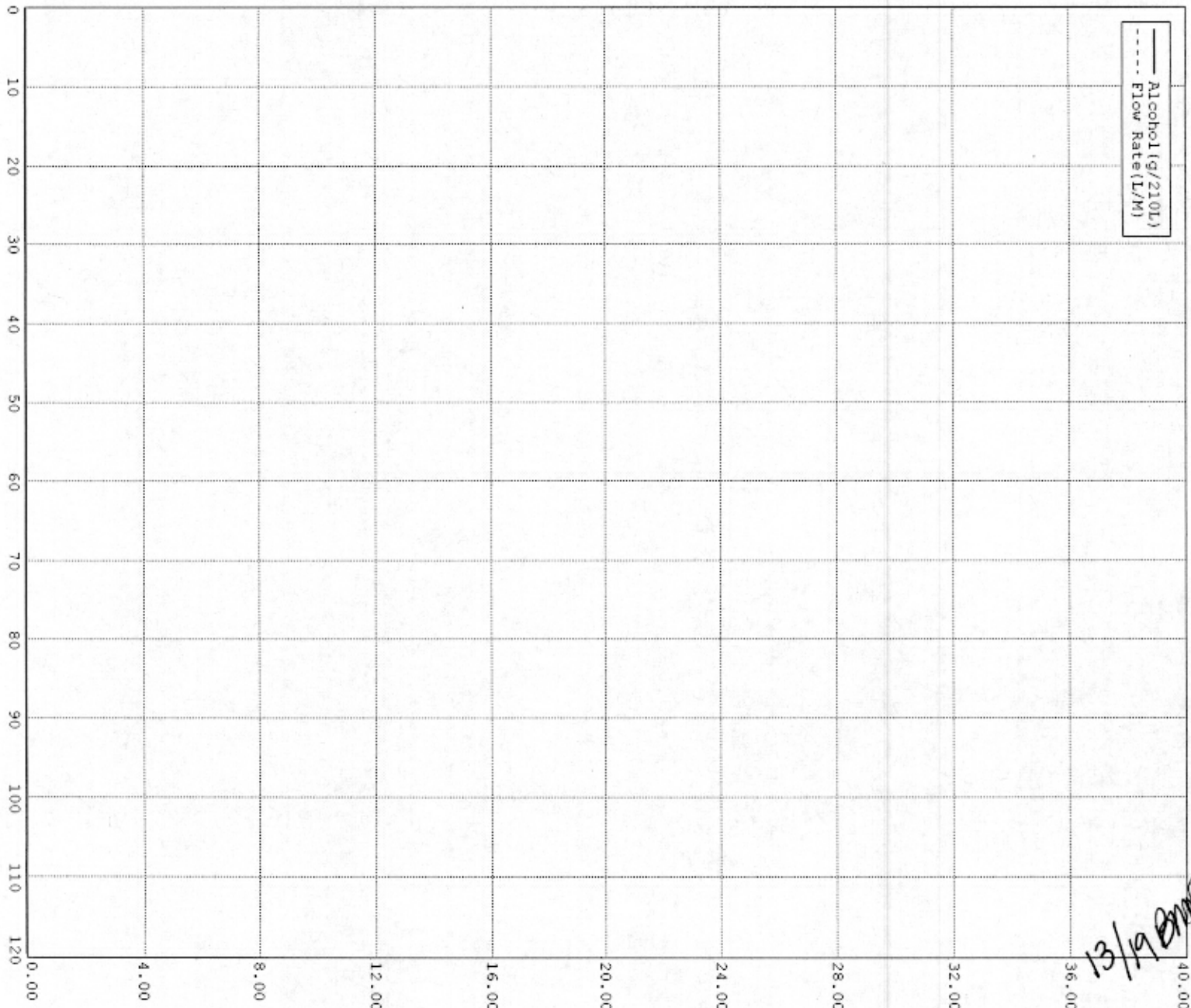
OPERATOR NAME:  
BRANDI BARNETT  
OPERATOR'S #: 7038

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	15:17
BLANK TEST	0.000	15:17
INTERNAL STANDARD	VERIFIED	15:18
EXTERNAL STANDARD	0.081	15:18
BLANK TEST	0.000	15:19
SUBJECT SAMPLE	INCOMPLETE	15:21

*Brandl*



*13/19/11 BMB*

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100396

Date: 08/15/2012  
Time: 15:36:54

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

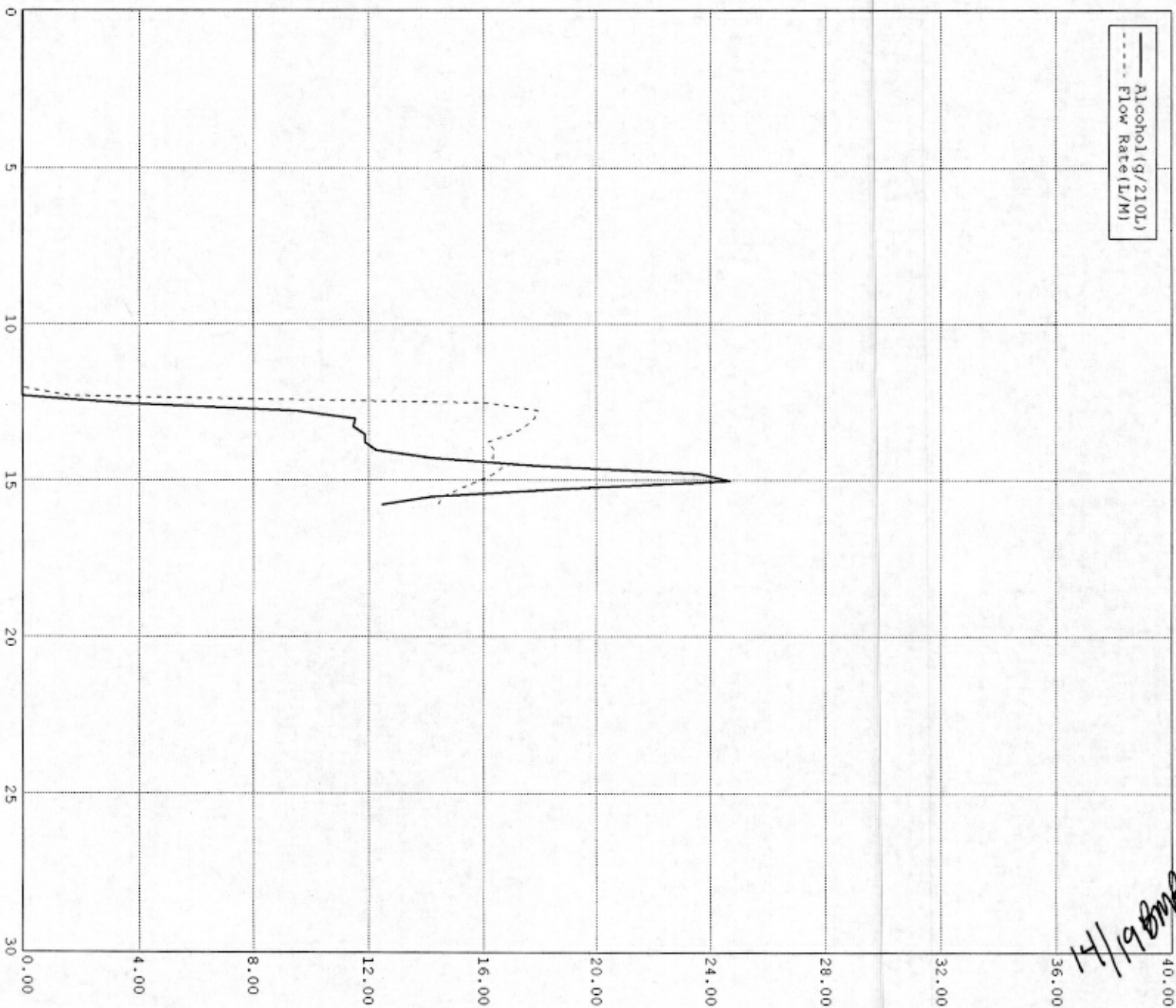
OPERATOR NAME:  
BRANDI BARNETT  
OPERATOR'S #: 7038

DEPT/AGENCY:  
INVALID  
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	15:38
BLANK TEST	0.000	15:38
INTERNAL STANDARD	VERIFIED	15:38
EXTERNAL STANDARD	0.080	15:39
BLANK TEST	0.000	15:40
SUBJECT SAMPLE	INVALID	15:40

*BSMB*



*BSMB 8/15/12*

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100396

Date: 08/16/2012  
Time: 10:24:03

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

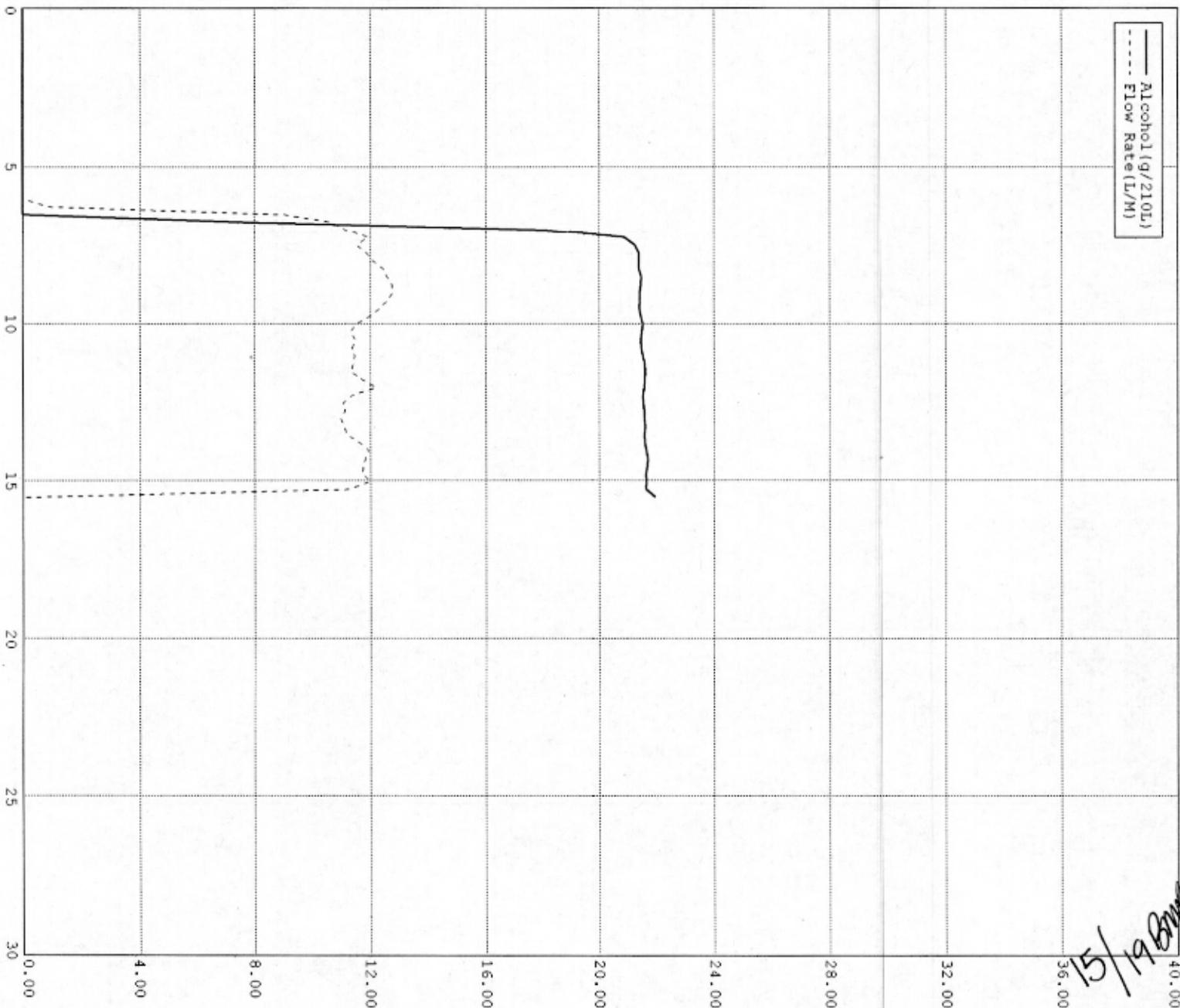
OPERATOR NAME:  
BRANDI BARNETT  
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.92: 0.079  
LOT #: 02012080A1  
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 10:25  
BLANK TEST 0.000 10:25  
INTERNAL STANDARD VERIFIED 10:25  
Xq = 0.107 (0.25%)  
EXTERNAL STANDARD 0.080 10:25  
X[1] = 0.0806 (-0.0018) (0.0009)  
BLANK TEST 0.000 10:26  
SUBJECT SAMPLE INTERFERENCE 10:27  
X[1] = 0.1104 (-0.0137) (-0.0002)

*BBMB*



*BBMB*  
8/15/12

SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100396

Date: 08/16/2012  
Time: 10:14:28

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

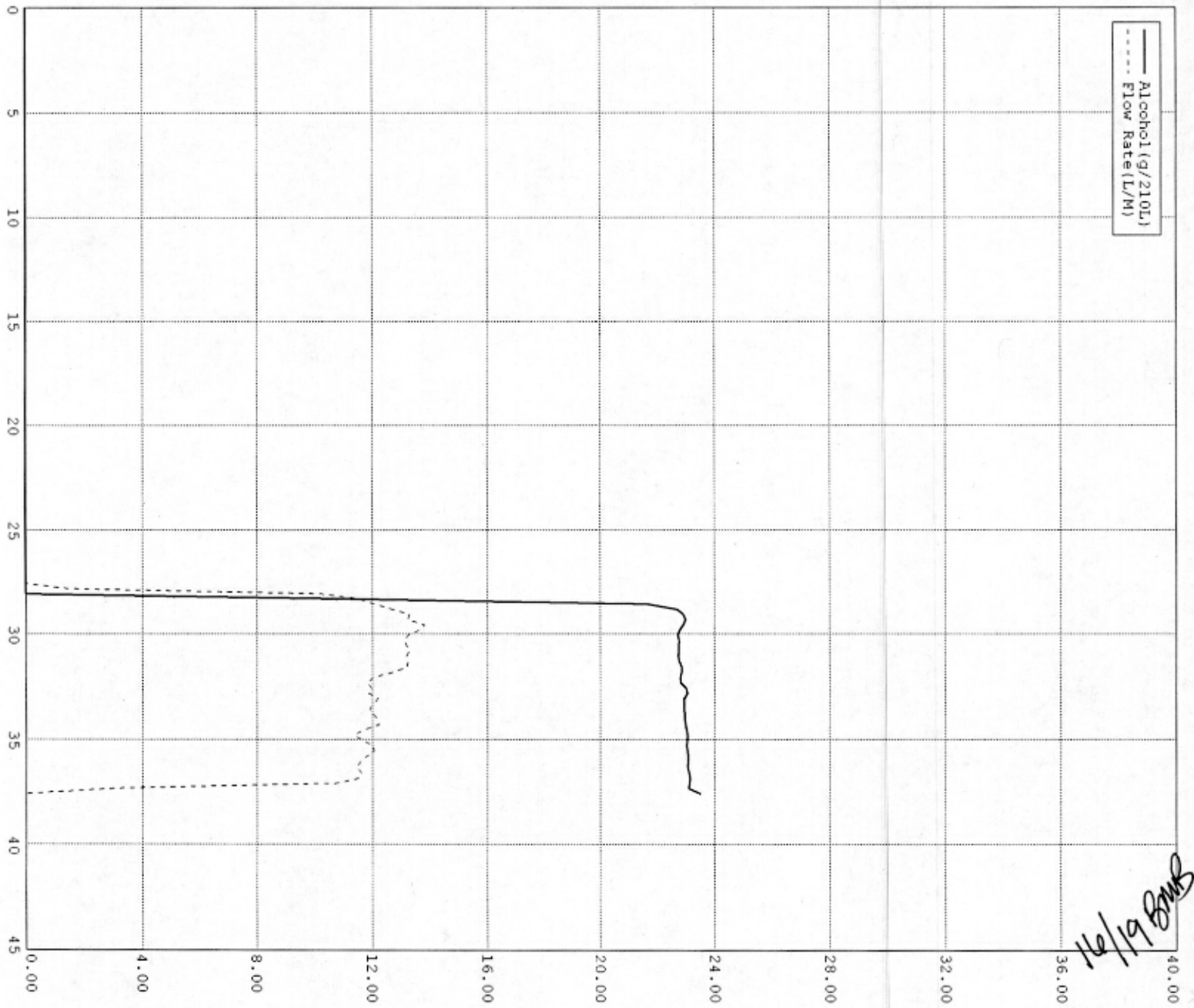
OPERATOR NAME:  
BRANDI BARNETT  
OPERATOR'S #: 7038

DEPT/AGENCY:  
INTERFERENCE ISOPROPANOL  
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	10:15
BLANK TEST	0.000	10:15
INTERNAL STANDARD	VERIFIED	10:16
Xq = 0.108 (0.25%)		
EXTERNAL STANDARD	0.081	10:16
X[1] = 0.0814 (-0.0009)	(0.0010)	
BLANK TEST	0.000	10:17
SUBJECT SAMPLE	INTERFERENCE	10:17
X[1] = 0.1182 (-0.0288)	(-0.0006)	

*Handwritten signature: BBMB*



*Handwritten signature and date: BBMB 8/16/12*



SUBJECT TEST

Alaska Department of Public Safety  
 DATA MASTER dmt: 100396

Date: 08/16/2012  
 Time: 10:04:33

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

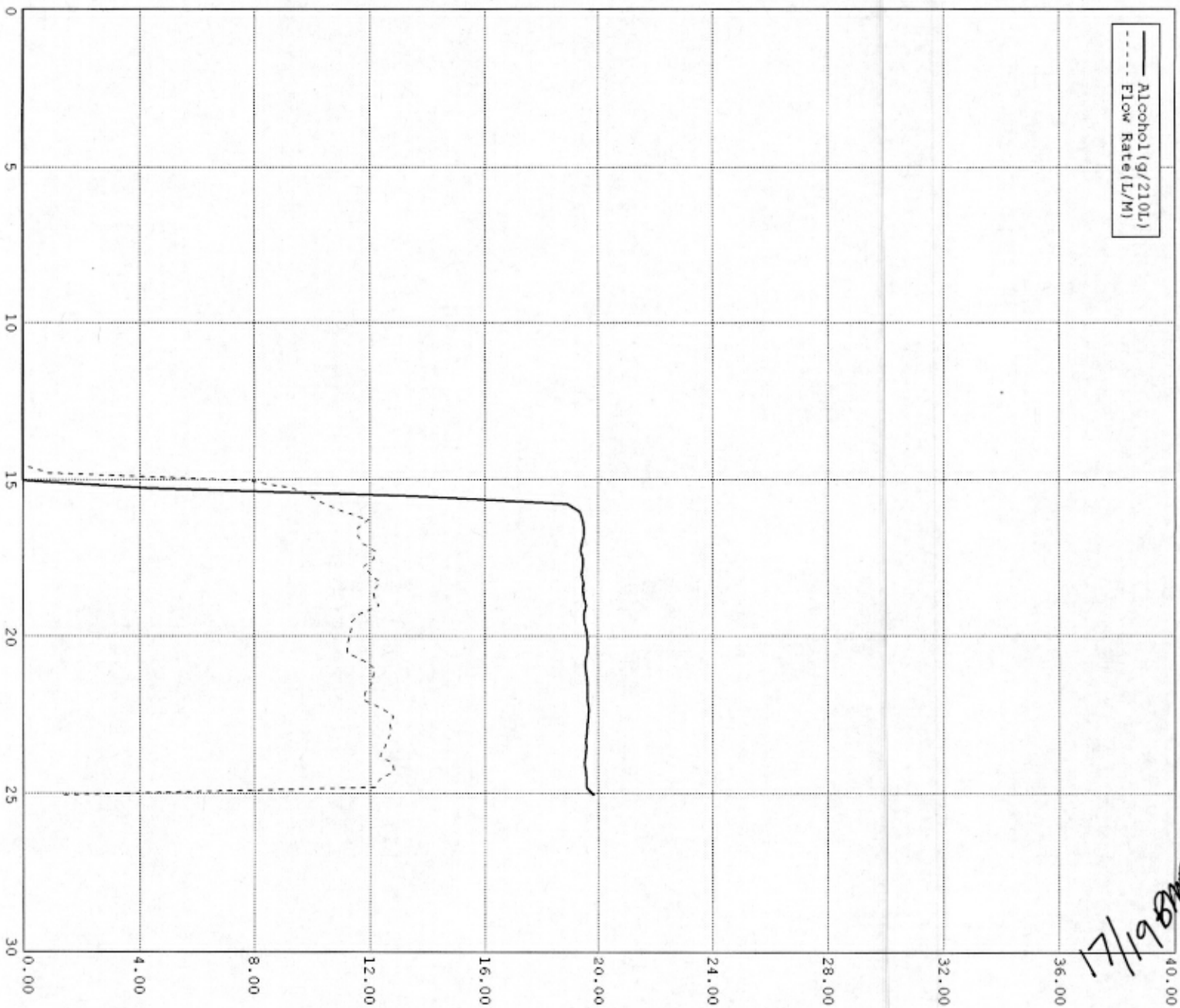
OPERATOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

DEPT/AGENCY:  
 INTERFERENCE NEGATIVE CONTROL  
 CASE/REPORT: 0.100 SOLUTION  
 TEST TYPE: TEST

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

DIAGNOSTIC CHECK	PASSED	10:05
BLANK TEST	0.000	10:05
INTERNAL STANDARD	VERIFIED	10:05
Xq = 0.108 (0.49%)		
EXTERNAL STANDARD	0.080	10:06
X[1] = 0.0809 (-0.0011) (0.0014)		
BLANK TEST	0.000	10:07
SUBJECT SAMPLE (Vol=1.96L)	0.100	10:07
X[1] = 0.1007 (-0.0006) (-0.0009)		
BLANK TEST	0.000	10:08
EXTERNAL STANDARD	0.080	10:08
X[1] = 0.0809 (-0.0005) (0.0008)		
BLANK TEST	0.000	10:09

*BBMB*



*BBMB 8/17/12*

SUBJECT TEST

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Alaska Department of Public Safety  
DATA MASTER dmt: 100396  
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Date: 08/15/2012  
Time: 15:42:22

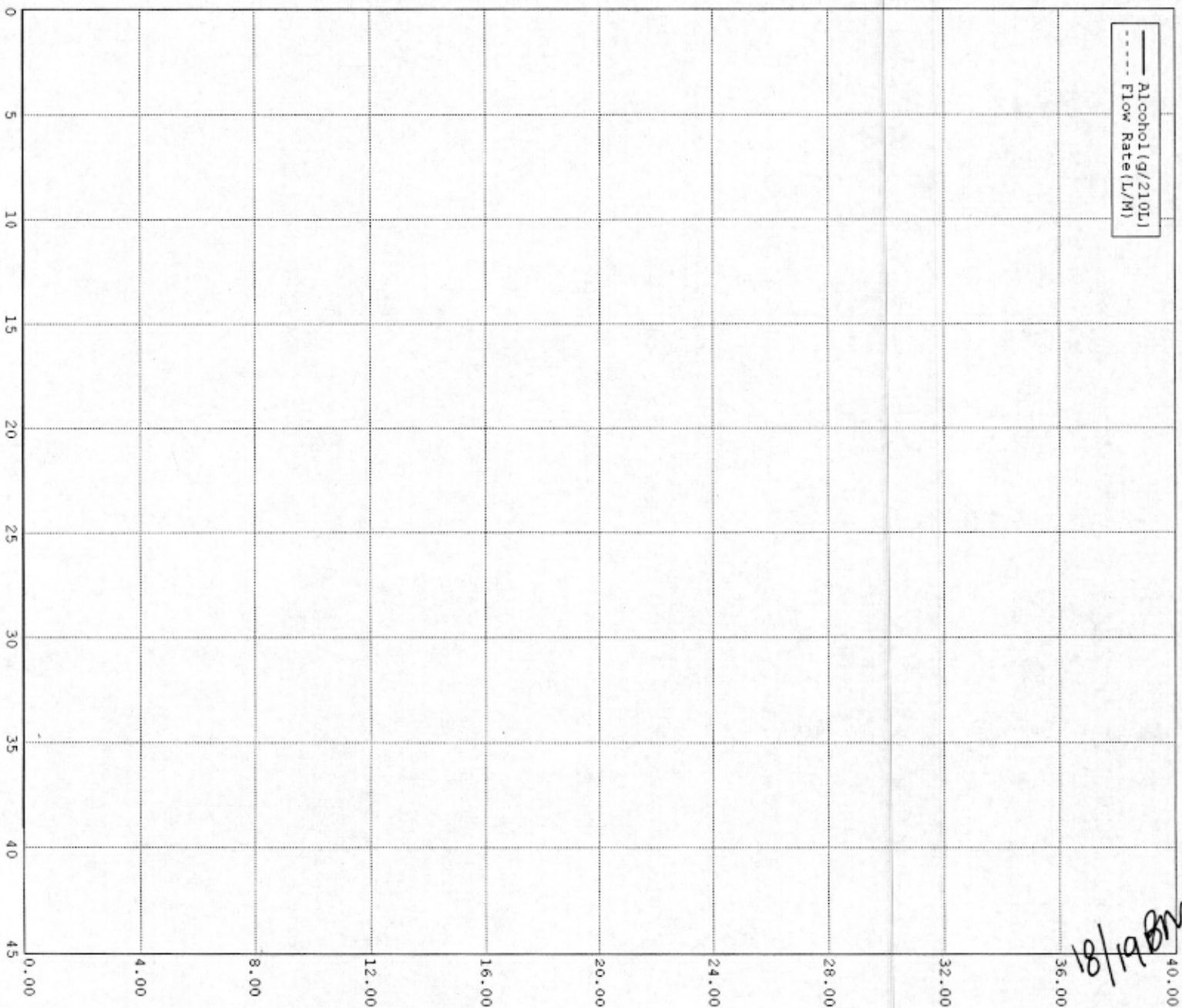
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

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 15:43  
INTERNAL STANDARD VERIFIED 15:43  
EXTERNAL STANDARD 0.081 15:44  
BLANK TEST 0.000 15:45  
RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100396

Date: 08/16/2012  
Time: 14:09:51

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

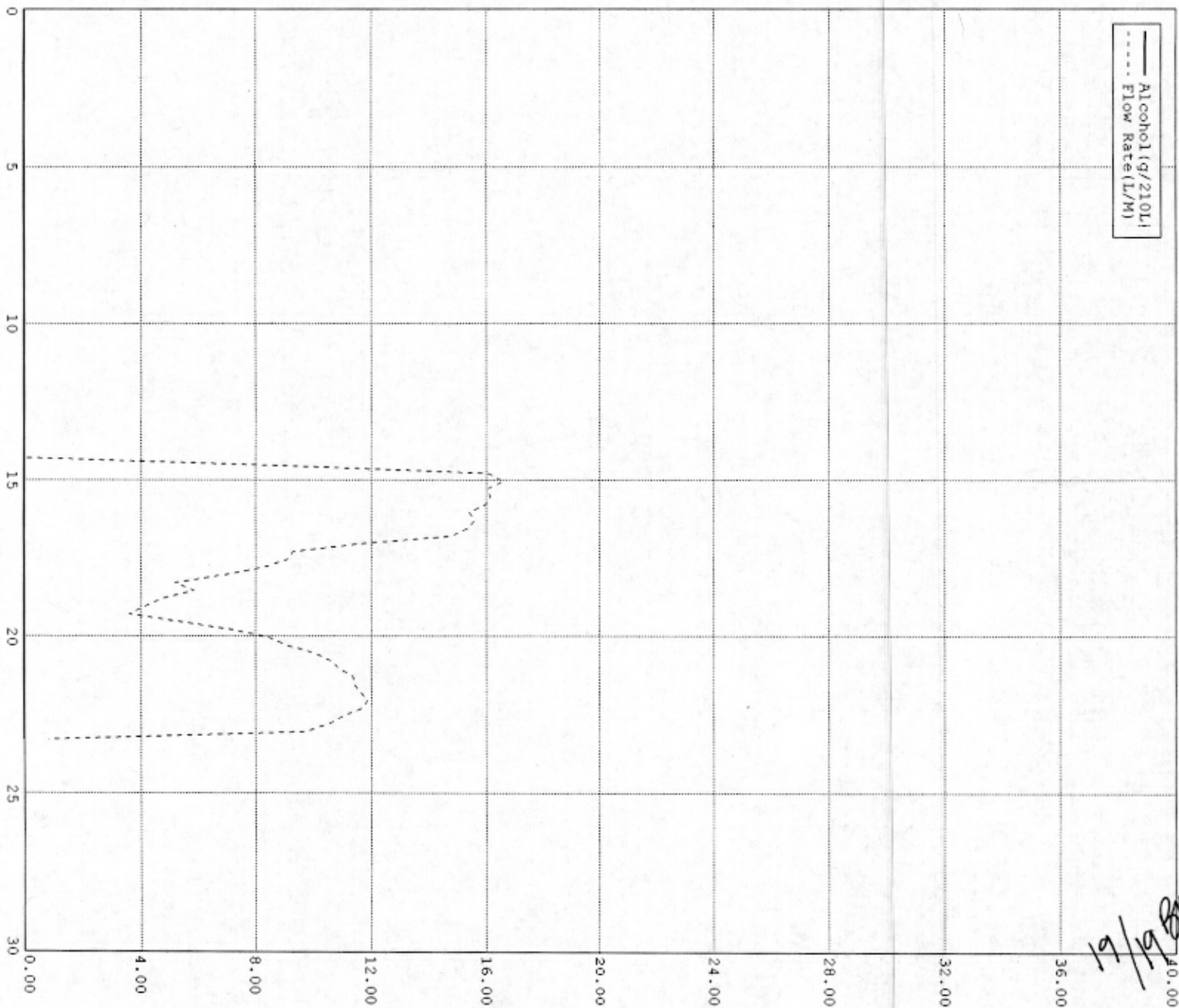
OPERATOR NAME:  
BRANDI BARNETT  
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.89: 0.079  
LOT #: 02012080A1  
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:10
BLANK TEST	0.000	14:10
INTERNAL STANDARD	VERIFIED	14:11
EXTERNAL STANDARD	0.081	14:11
BLANK TEST	0.000	14:12
SUBJECT SAMPLE	0.000	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.081	14:13
BLANK TEST	0.000	14:14

*BRMB*



*19/19 BRMB*

Final page for report

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2/19/2014