

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100350 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 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 03/01/2013

iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 03/01/14

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

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

1. Simulator S/N SD1198 Date Calibrated 01/10/2012

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 11250 Level 0.100 Exp 12/10/2013

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

ii. Isopropanol - Mnf Guth Lot 11100 Level 0.100 Exp 07/06/13

1. Simulator S/N DR6207 Date Calibrated 01/10/2012

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

1. Simulator S/N DR4176 Date Calibrated 02/21/2012

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 8/17/12

11/19/2013

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100350

Date: 08/14/2012
Time: 15:11:07

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 46.0°C	PASSED

PUMP INFO

Flow Rate = 5.404 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
-------------------	--------

2/19/2012
BMB

Technician Screen

DATAMASTER dmt: 100350

Date: 08/14/2012

Time: 3:27 PM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 44.9°C

Current Barometer 30.0 in

Volume (Ltr) 1.50

Settings

Lamp: 1.81 V

Bias: 80 V

Cooler: 1.84 V

Chopper: 522 Hz

Voltages (V)

Flow: 1.04 V

Detector: -0.014 V

3/19/08
BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100350

Date: 01/10/2011
Time: 16:26:03

Ca = 0.1000
CAL = 0.986277 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0022 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.1003 0.0500 <= Xq < 0.2000
a21 = 1.145944 1.050 <= a21 < 1.300
a31 = 0.463631 0.300 <= a31 < 0.800

4/19/11 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100350

Date: 08/14/2012
 Time: 15:32:09

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

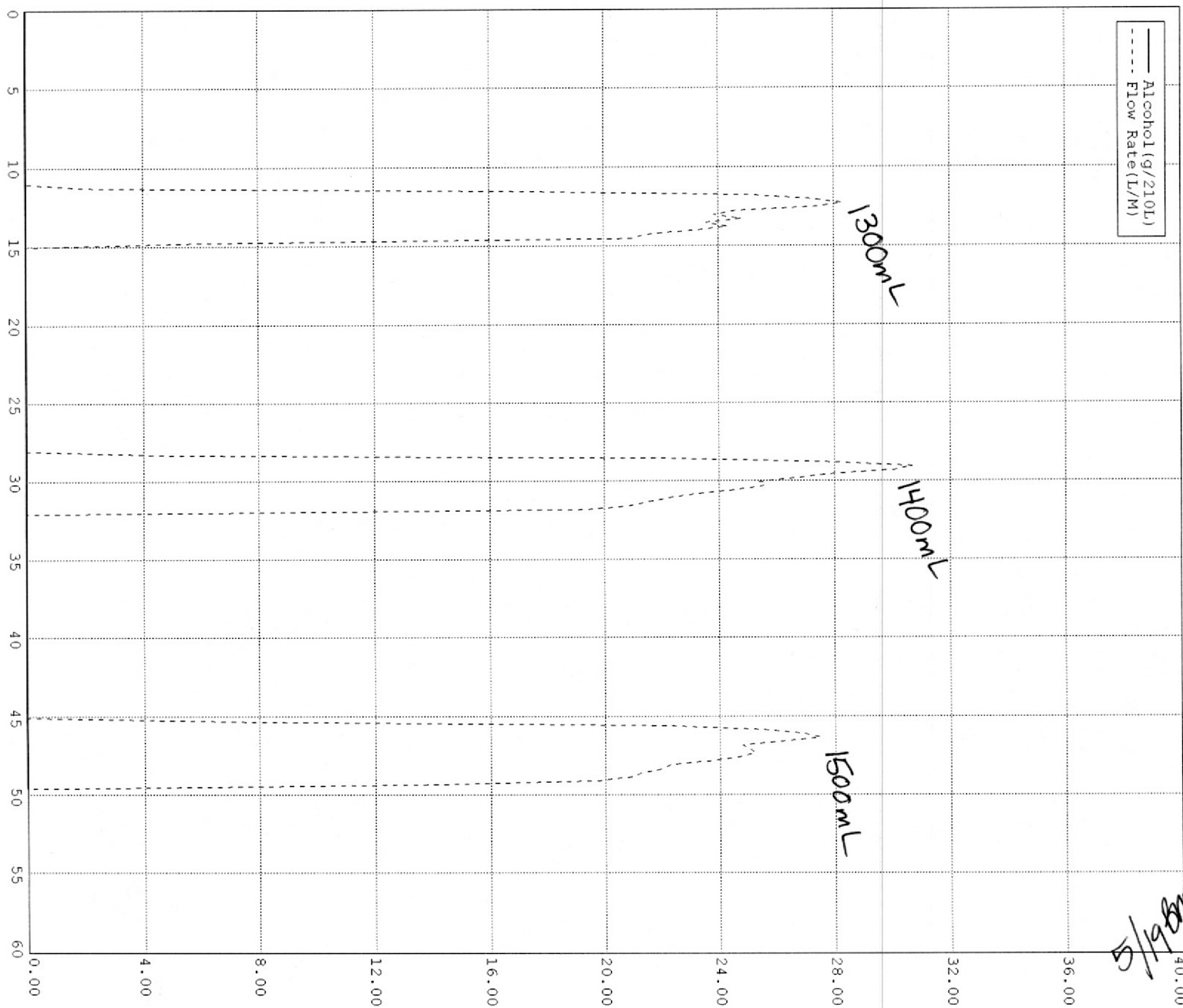
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.97: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

	PASSED	15:33
DIAGNOSTIC CHECK	0.000	15:33
BLANK TEST	0.000	15:33
INTERNAL STANDARD	0.079	15:33
EXTERNAL STANDARD	0.000	15:34
BLANK TEST	0.000	15:35
SUBJECT SAMPLE	0.000	15:36
BLANK TEST	0.079	15:36
EXTERNAL STANDARD	0.000	15:37
BLANK TEST	0.000	15:37

Handwritten signature: BMB



Handwritten signature: BMB
 5/16/2013

LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100350

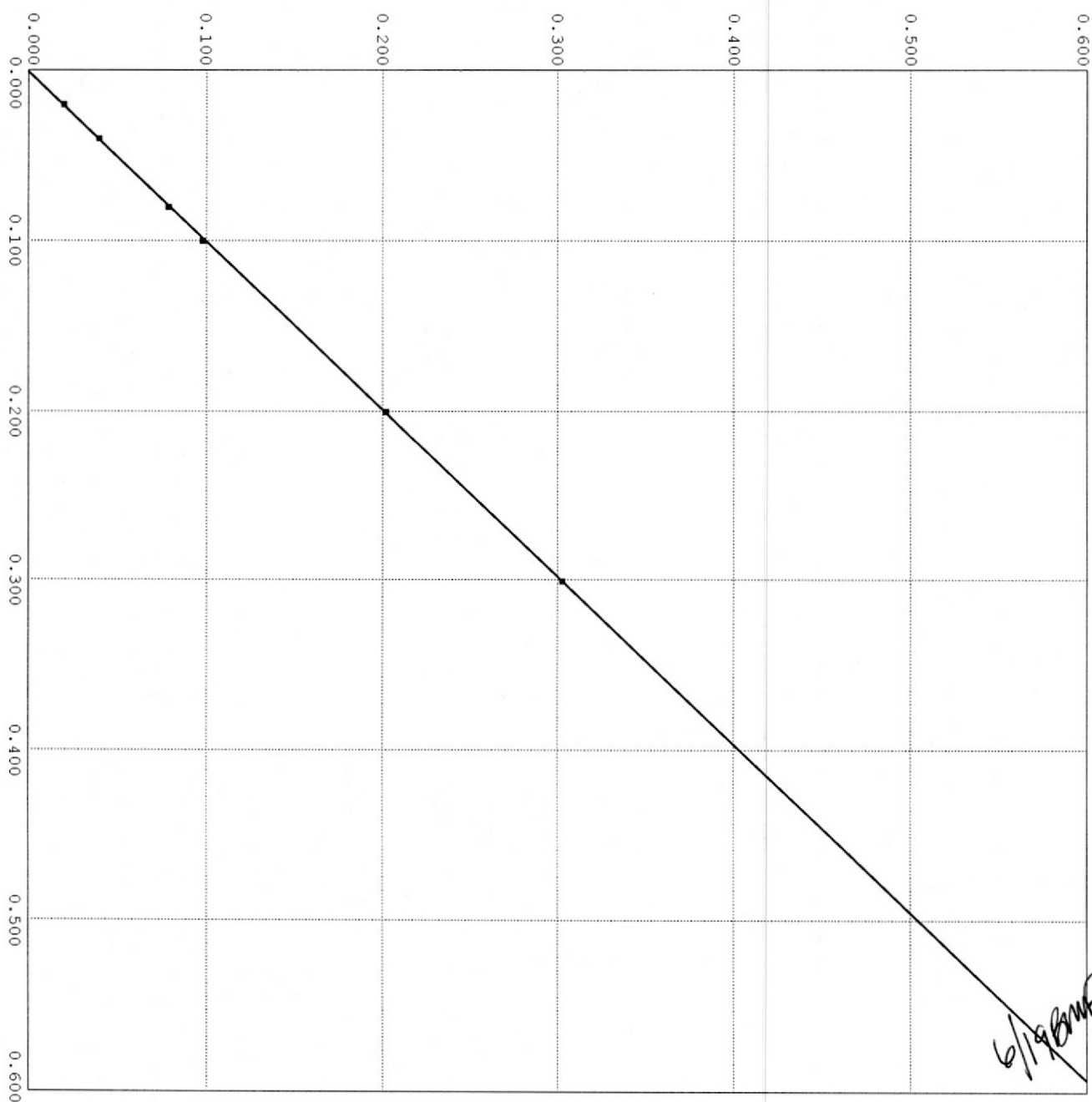
Date: 08/15/2012
 Time: 13:13:53

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0206	0.0003
0.040	0.0405	0.0002
0.080	0.0796	0.0002
0.100	0.0990	0.0002
0.200	0.2028	0.0006
0.300	0.3033	0.0003

SLOPE = 1.013083
 R^2 = 0.999906

BBMB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100350

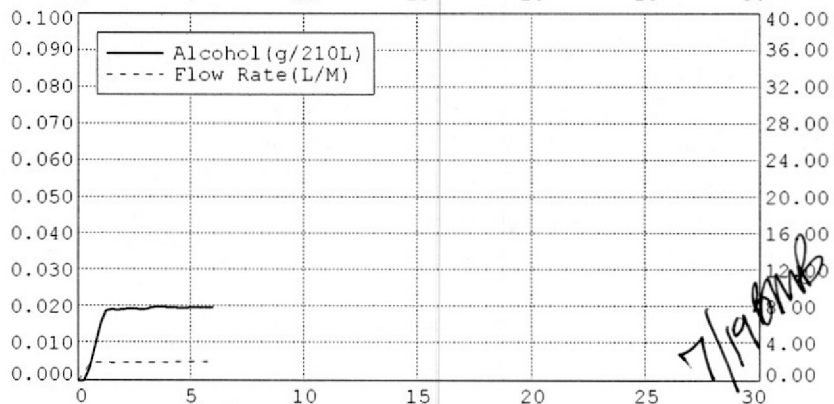
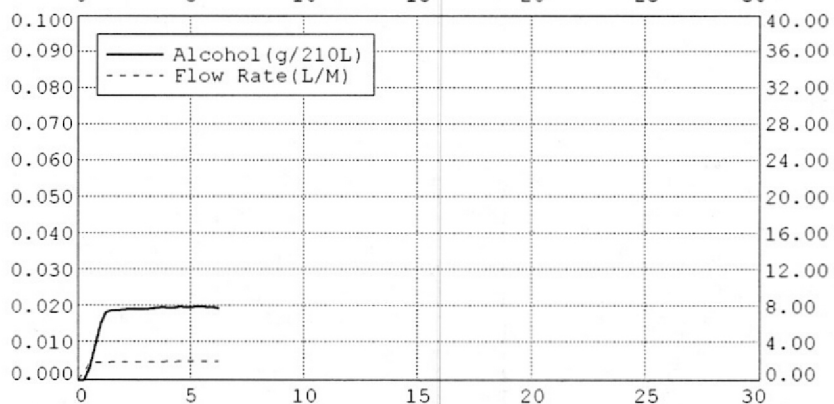
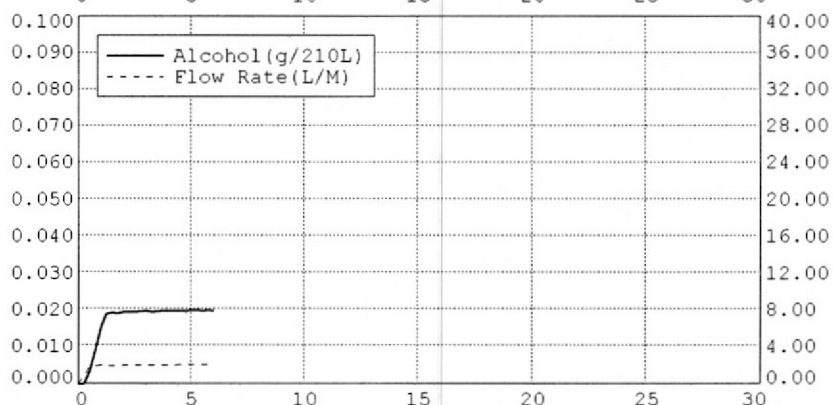
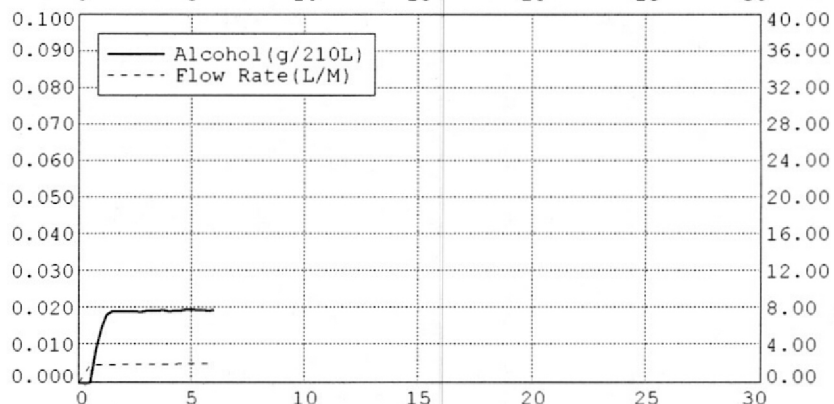
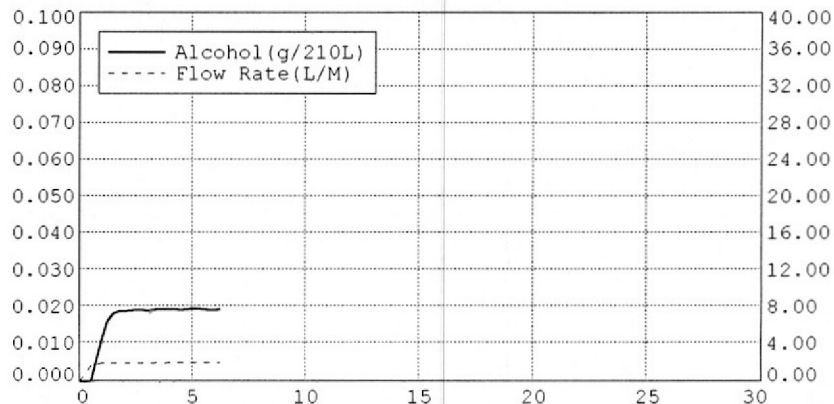
Date: 08/15/2012
Time: 13:13:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.99: 0.020
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:15
INTERNAL STANDARD	VERIFIED	13:15
EXTERNAL STANDARD	0.020	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.020	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.020	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.020	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.020	13:20
BLANK TEST	0.000	13:20

Average = 0.0206
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100350

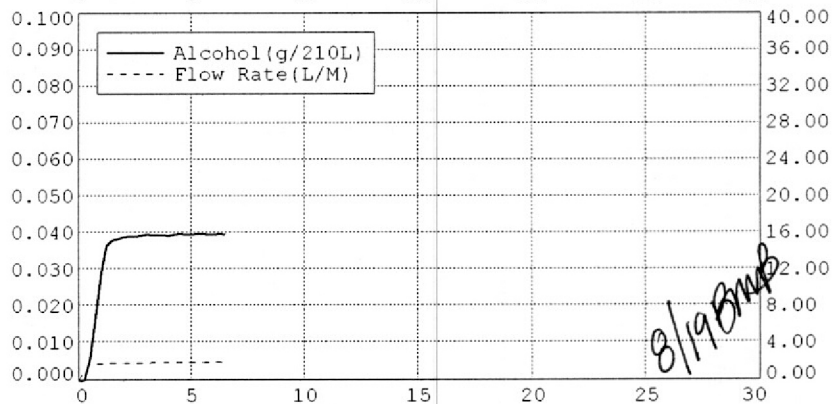
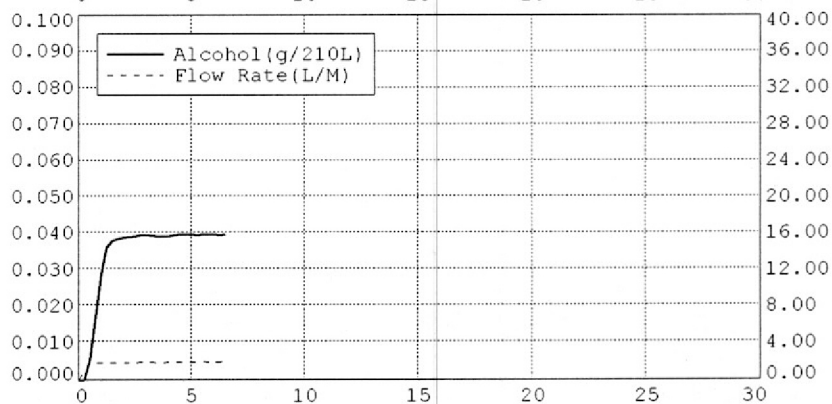
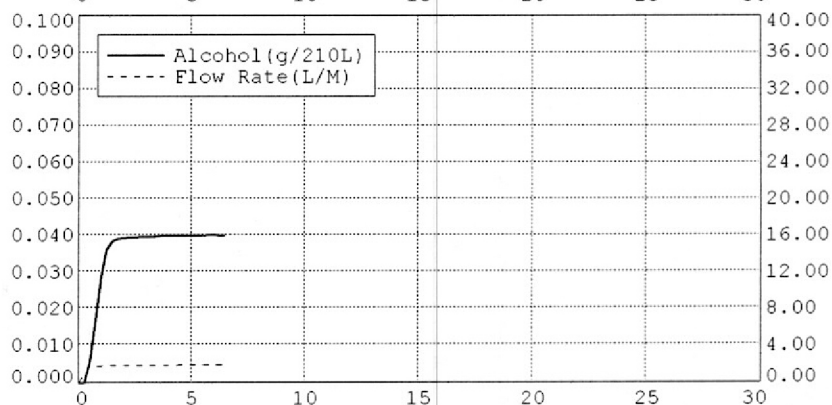
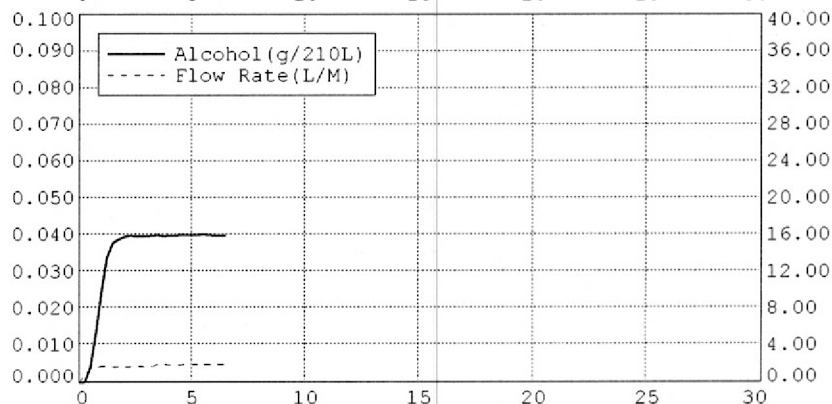
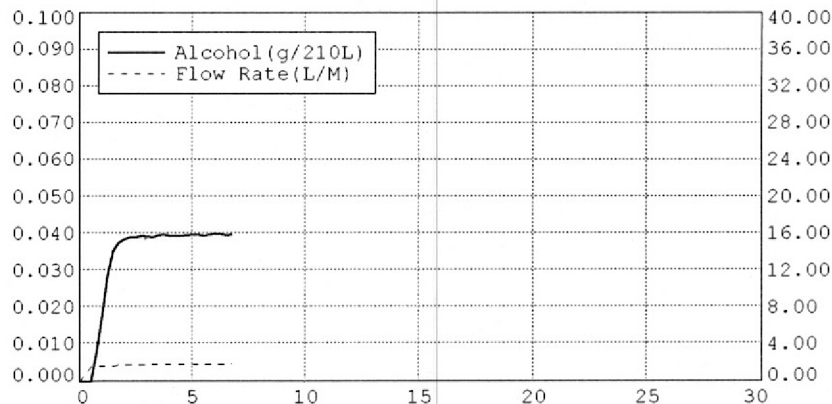
Date: 08/15/2012
Time: 13:32:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.99: 0.040
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:33
INTERNAL STANDARD	VERIFIED	13:33
EXTERNAL STANDARD	0.040	13:34
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.040	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.040	13:36
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.040	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.040	13:38
BLANK TEST	0.000	13:39

Average = 0.0405
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100350

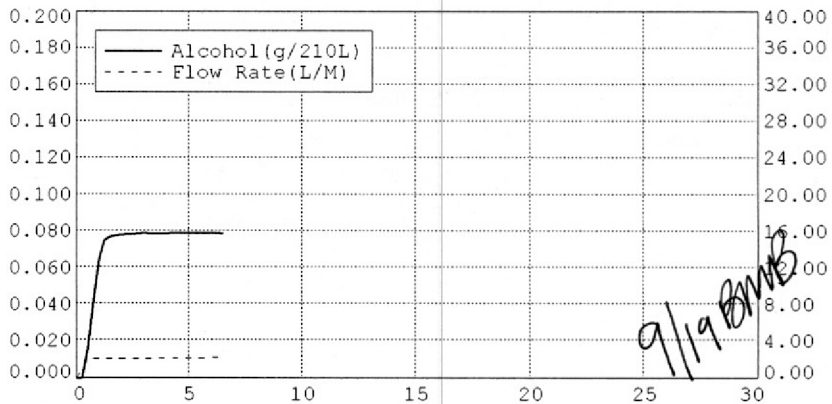
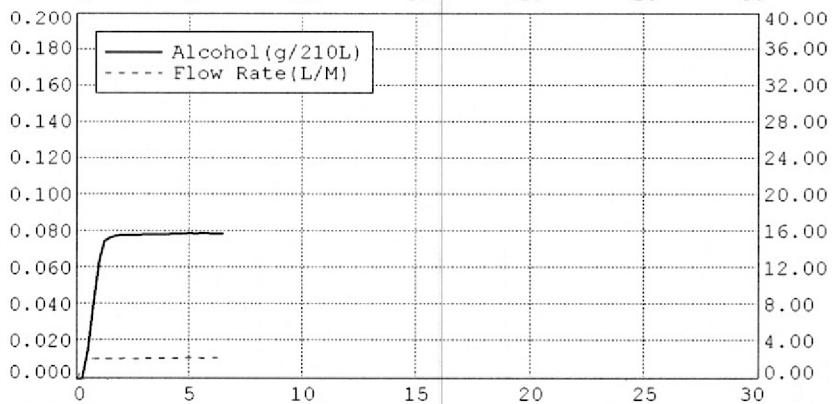
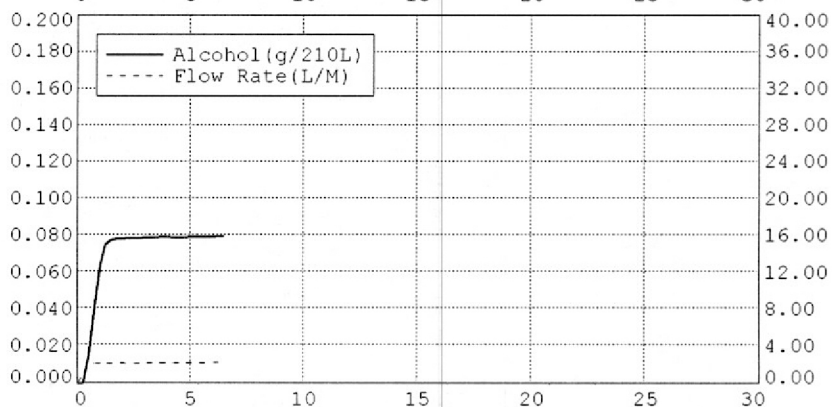
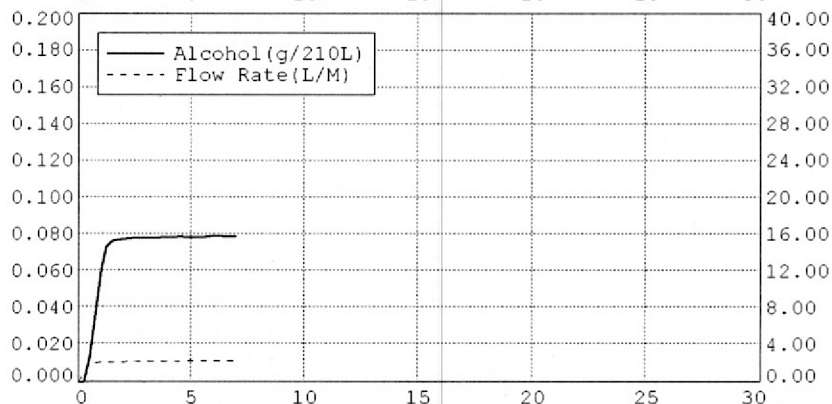
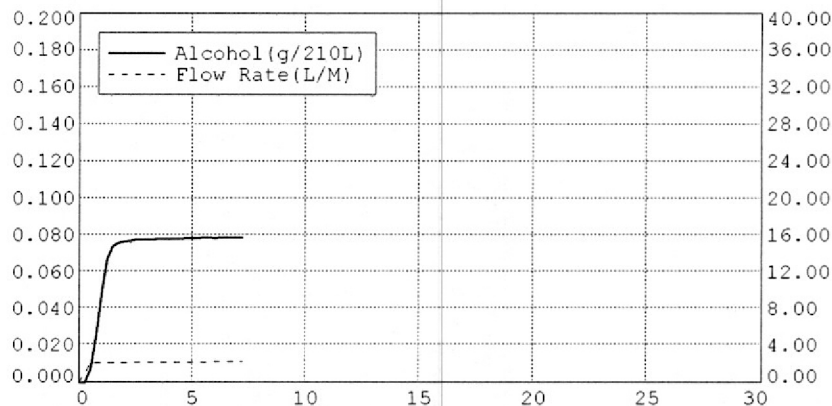
Date: 08/15/2012
Time: 13:41:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.98: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	13:43
INTERNAL STANDARD	VERIFIED	13:43
EXTERNAL STANDARD	0.079	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.079	13:45
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.079	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.079	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.079	13:48
BLANK TEST	0.000	13:49

Average = 0.0796
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100350

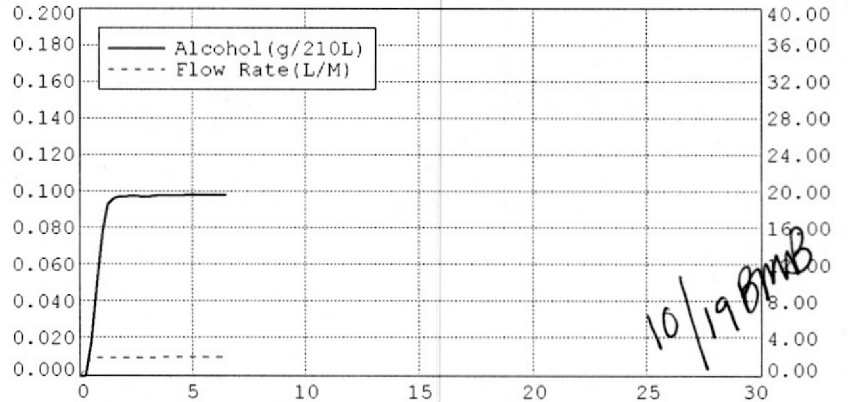
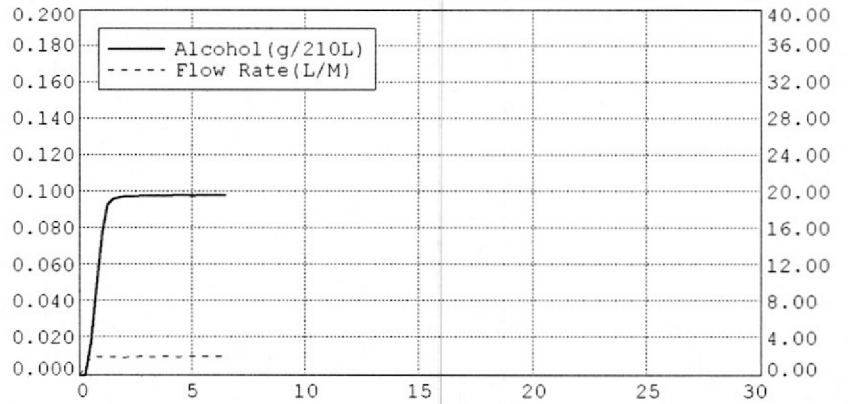
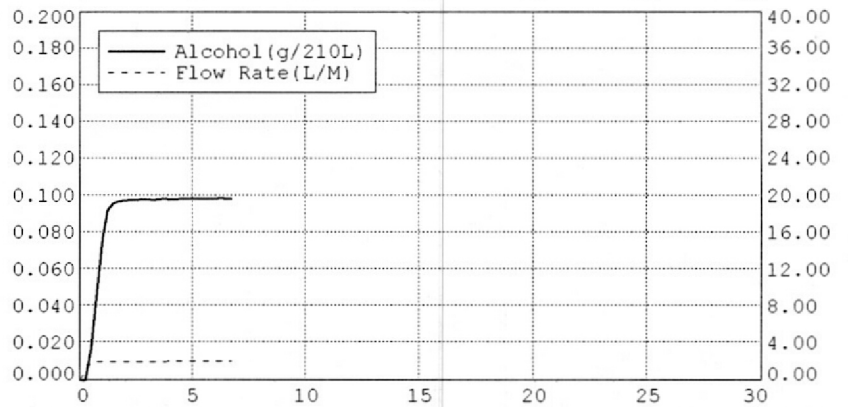
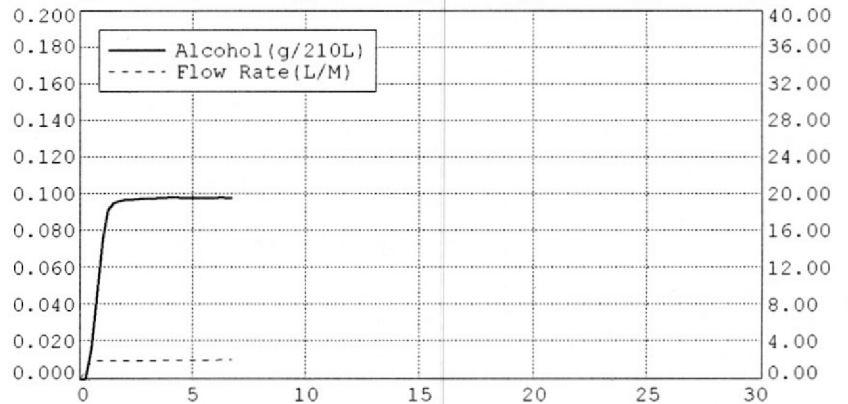
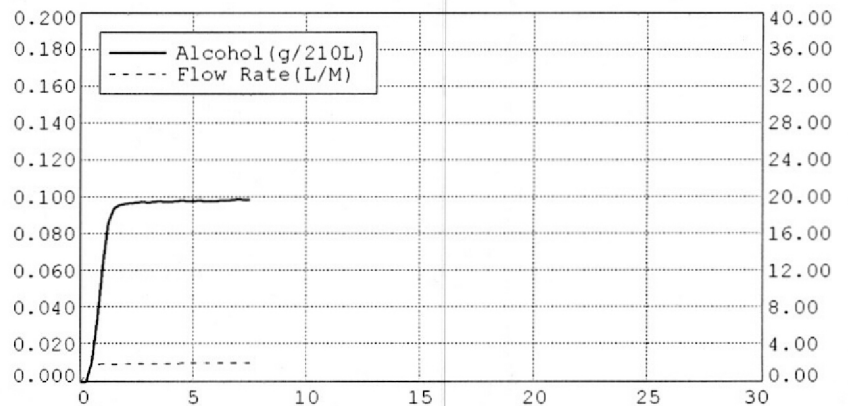
Date: 08/15/2012
Time: 14:00:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.98: 0.100
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.099	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.098	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.099	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.098	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.098	14:06
BLANK TEST	0.000	14:07

Average = 0.0990
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100350

Date: 08/15/2012
Time: 14:10:45

EXTERNAL STANDARD INFORMATION

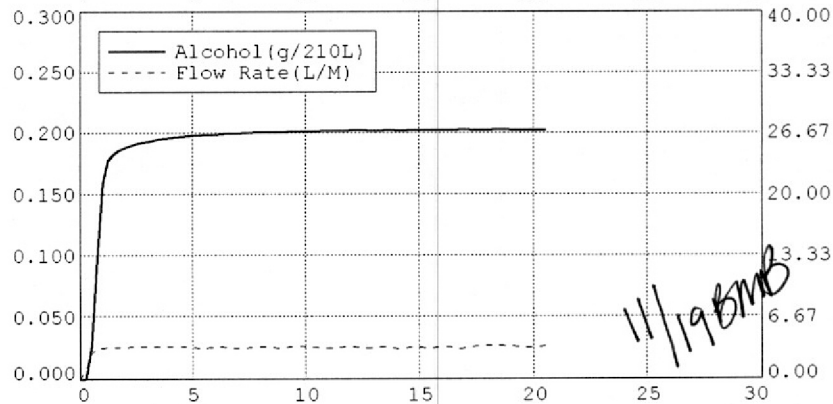
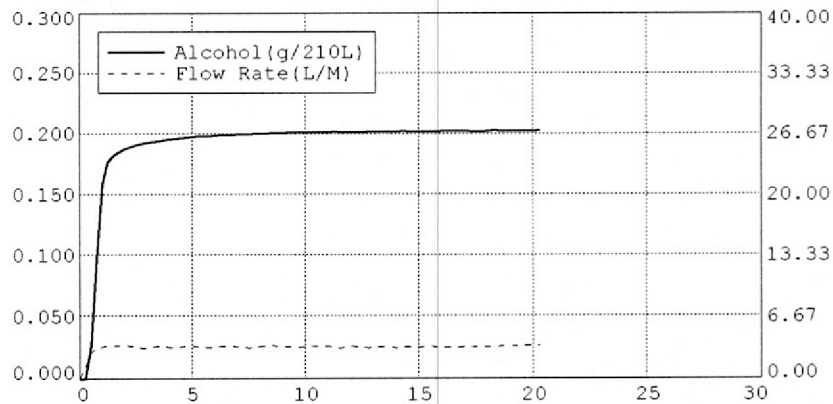
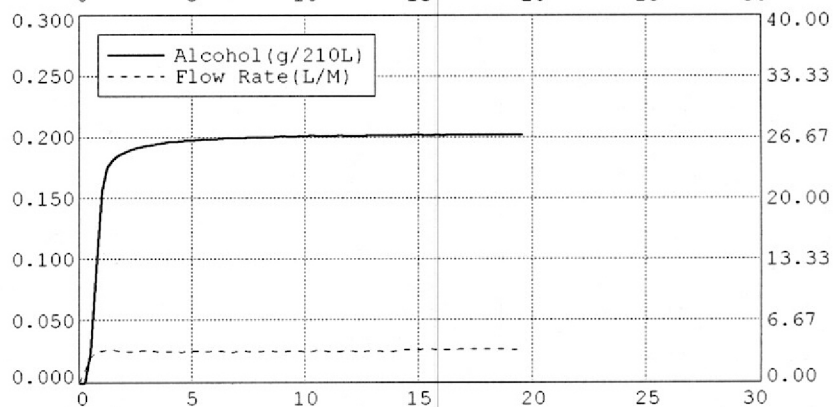
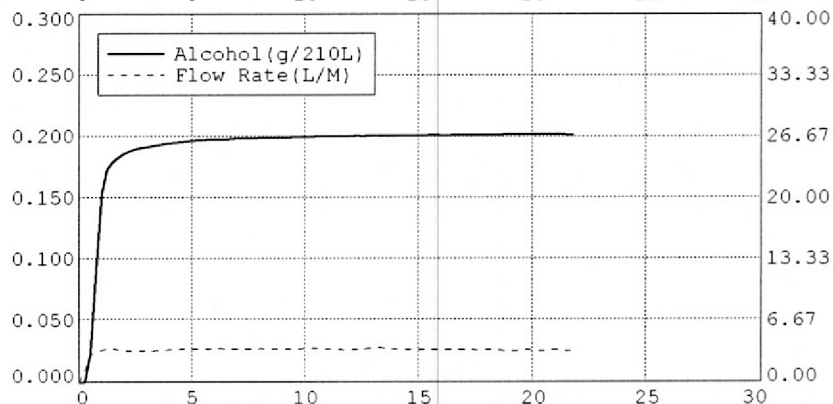
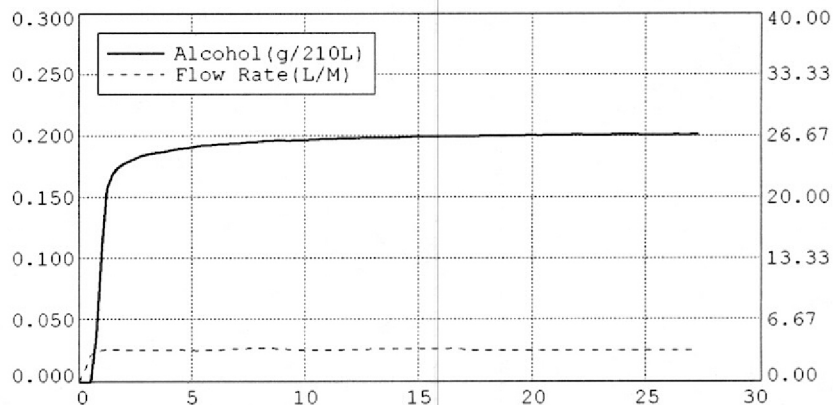
NOMINAL: 0.200

LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:12
EXTERNAL STANDARD	0.201	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.202	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.203	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.203	14:17
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.203	14:18
BLANK TEST	0.000	14:19

Average = 0.2028
Std Dev = 0.0006



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100350

Date: 08/15/2012
Time: 14:22:58

EXTERNAL STANDARD INFORMATION

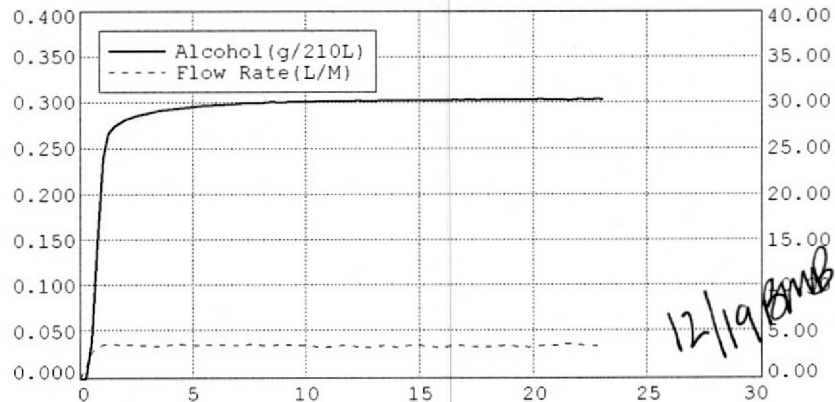
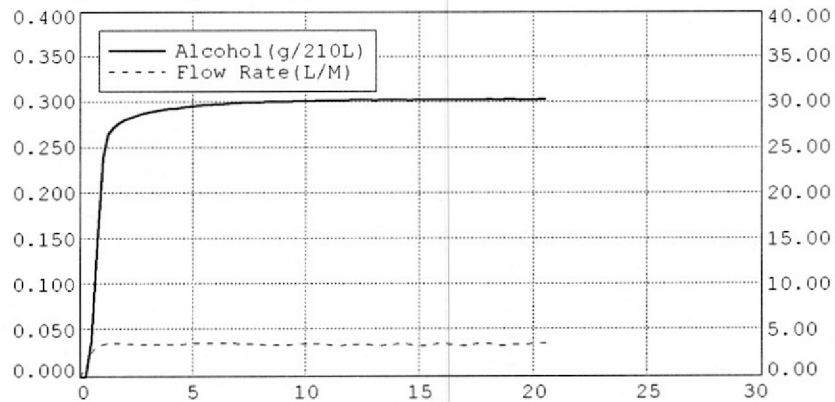
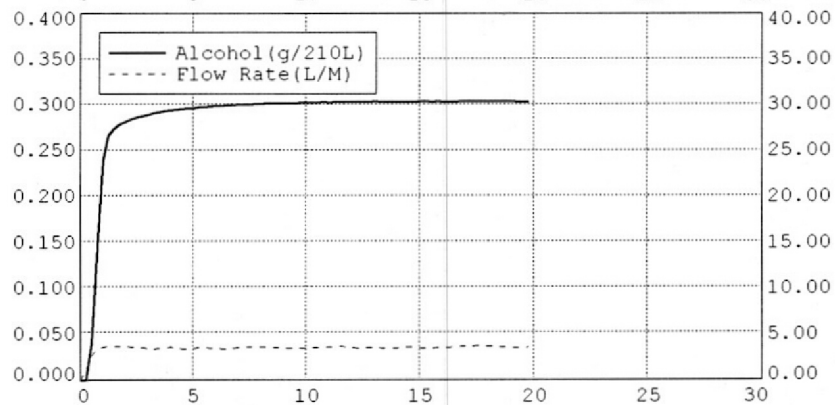
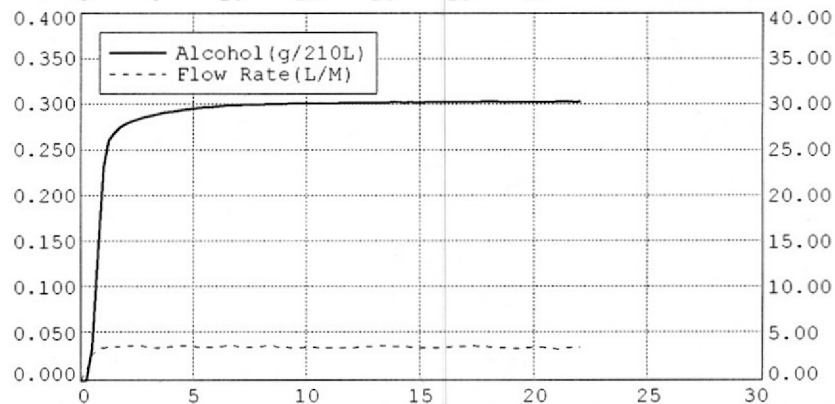
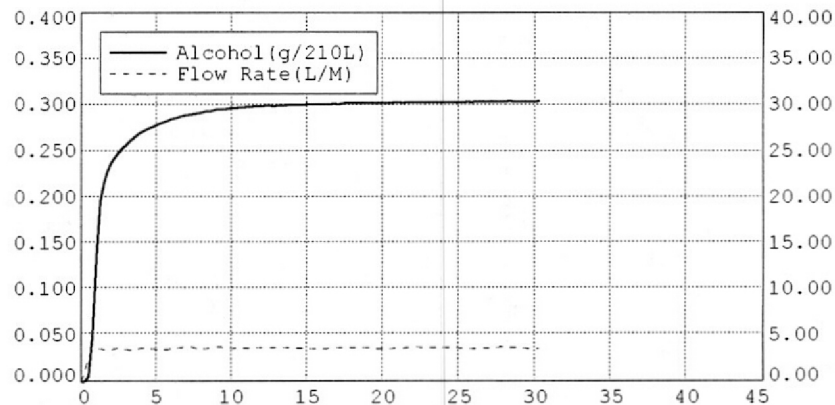
NOMINAL: 0.300

LOT #: 11110

EXPIRATION: 07/13/2013

BLANK TEST	0.000	14:24
INTERNAL STANDARD	VERIFIED	14:24
EXTERNAL STANDARD	0.303	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.303	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.302	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.303	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.303	14:31
BLANK TEST	0.000	14:32

Average = 0.3033
Std Dev = 0.0003

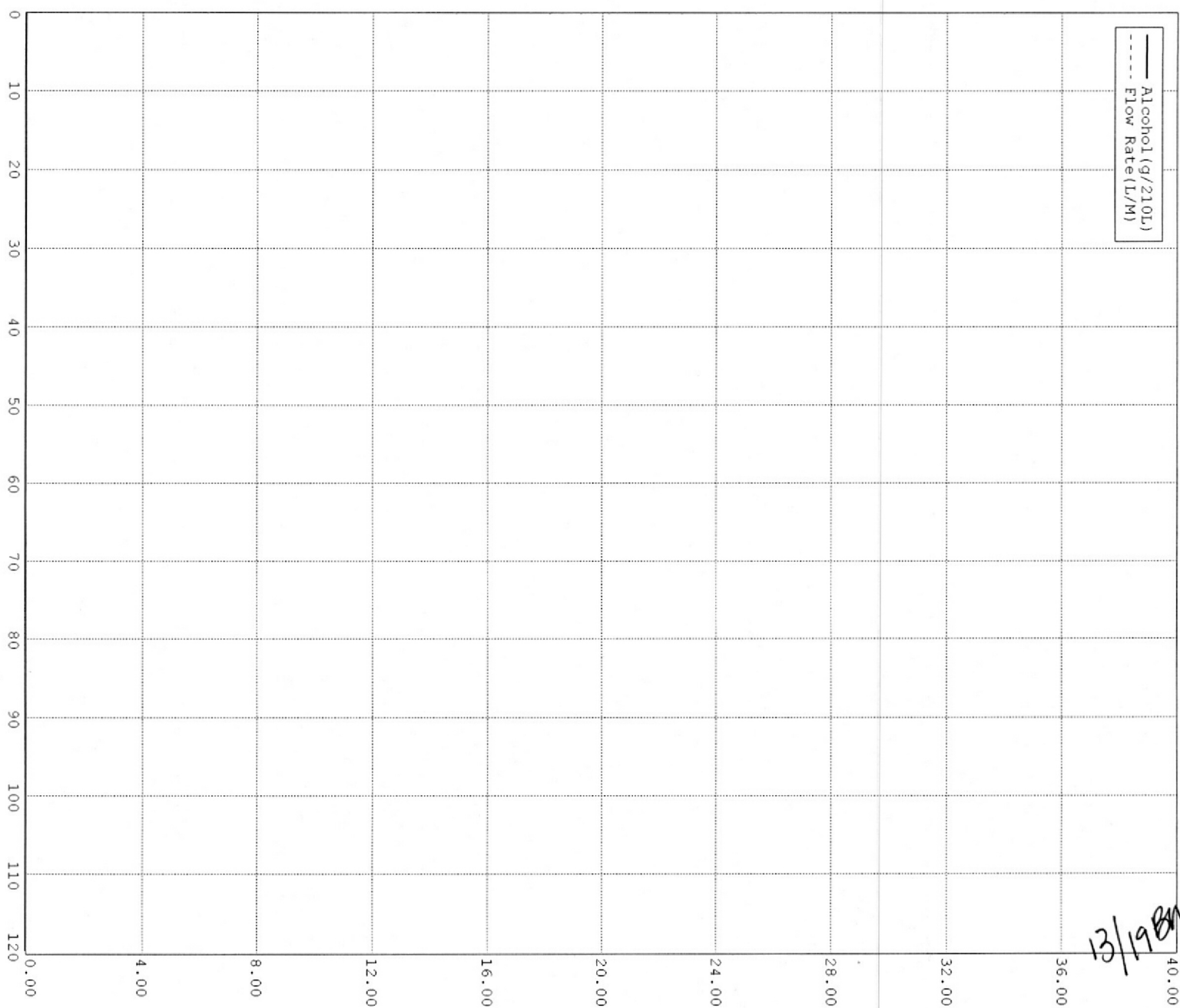


SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100350Date: 08/15/2012
Time: 15:02:18SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INCOMPLETE
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.98: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 15:04
INTERNAL STANDARD	0.000 15:04
EXTERNAL STANDARD	VERIFIED 15:04
INTERNAL STANDARD	0.080 15:04
BLANK TEST	0.000 15:05
SUBJECT SAMPLE	INCOMPLETE 15:07

BMB



13/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100350

Date: 08/15/2012
Time: 15:26:18

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

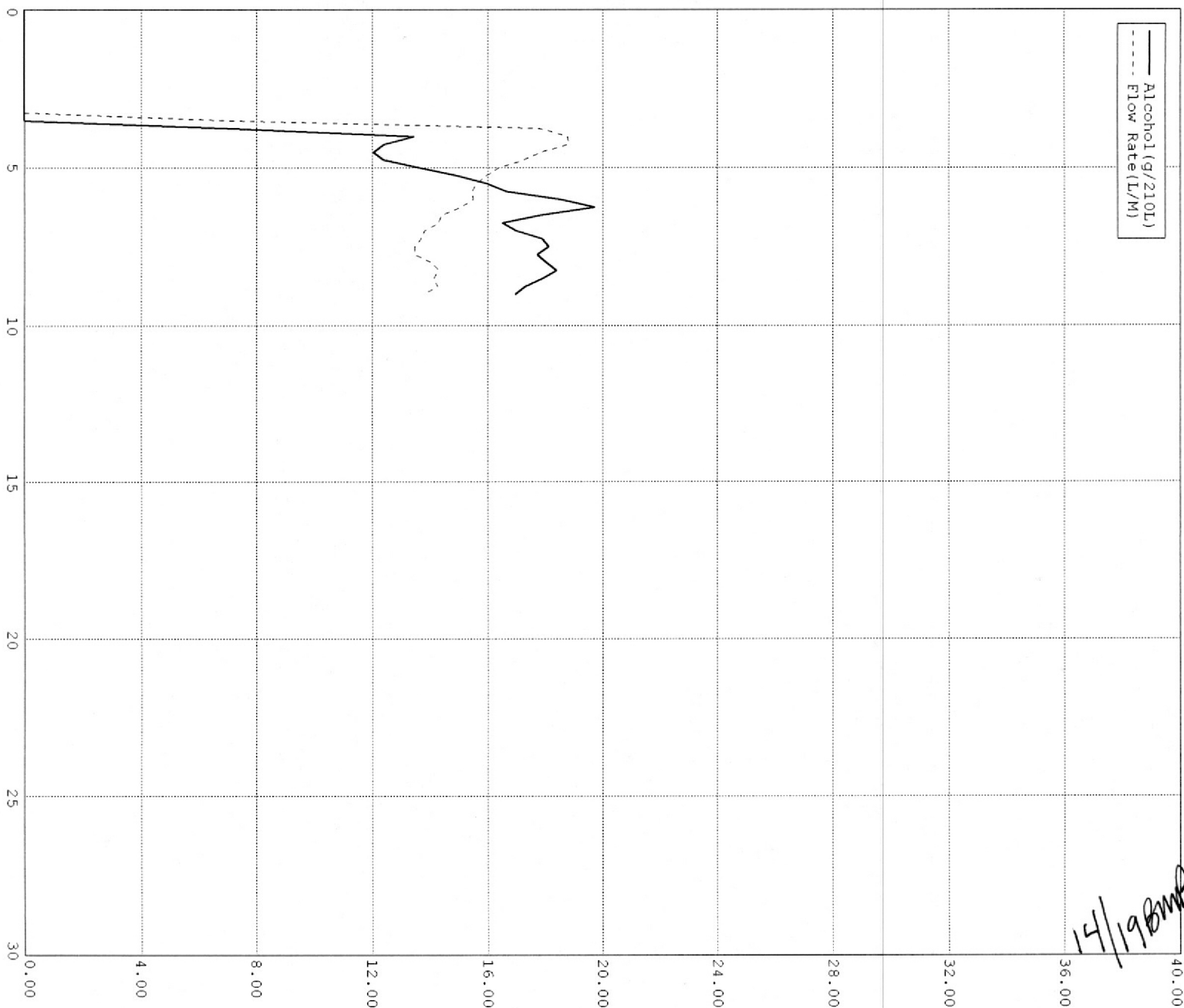
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.98: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:28
BLANK TEST	0.000	15:28
INTERNAL STANDARD	VERIFIED	15:28
EXTERNAL STANDARD	0.079	15:28
BLANK TEST	0.000	15:29
SUBJECT SAMPLE	INVALID	15:30

Handwritten signature: BMB



Handwritten signature and date: BMB 8/15/12

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100350

Date: 08/16/2012
Time: 10:14:52

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

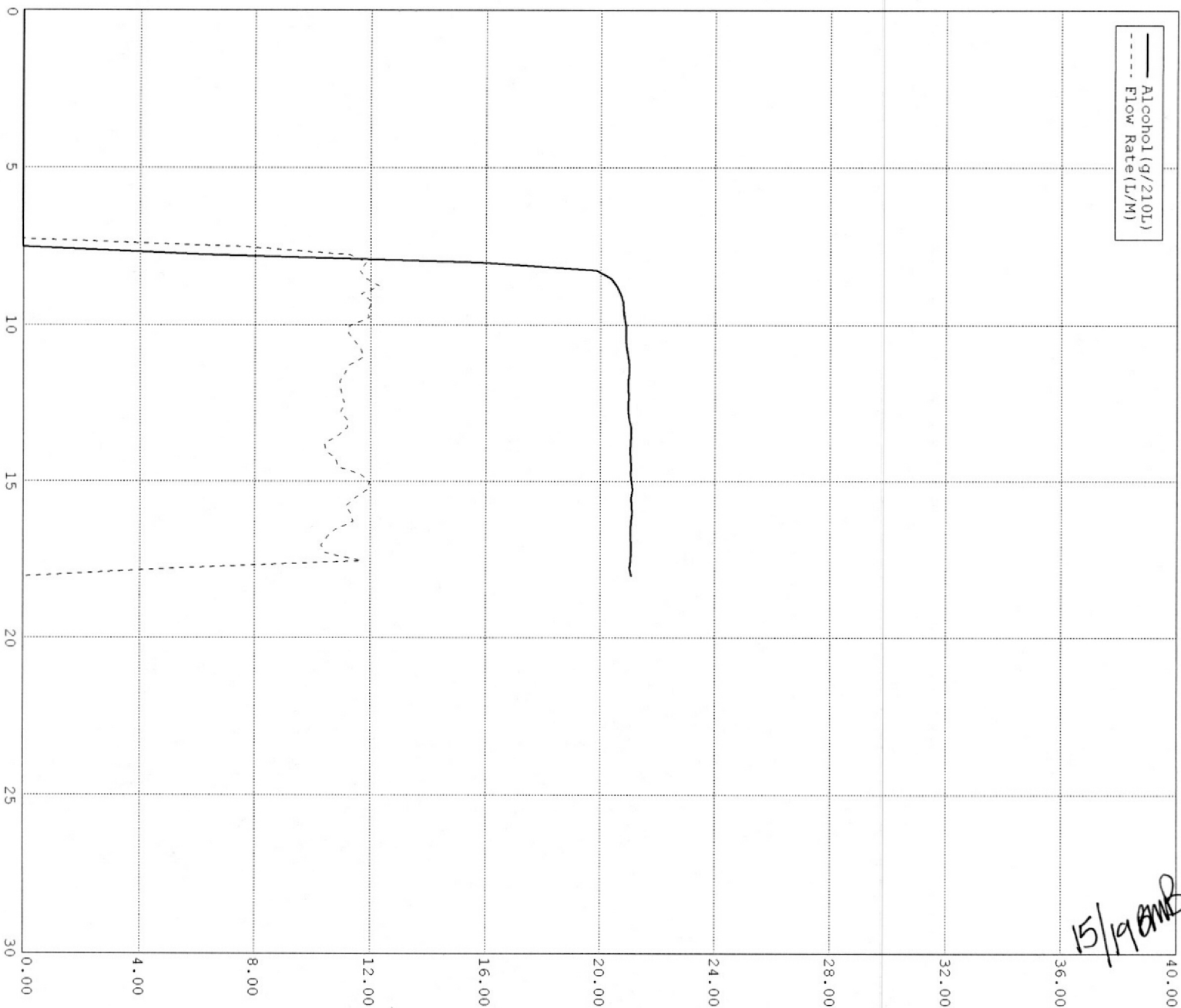
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

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

DIAGNOSTIC CHECK	PASSED	10:16
BLANK TEST	0.000	10:16
INTERNAL STANDARD	VERIFIED	10:16
Xq = 0.099 (1.57%)		
EXTERNAL STANDARD	0.079	10:16
X[1] = 0.0794 (0.0008)	(0.0008)	
BLANK TEST	0.000	10:17
SUBJECT SAMPLE	INTERFERENCE	10:18
X[1] = 0.1057 (-0.0183)	(-0.0009)	

Handwritten signature/initials



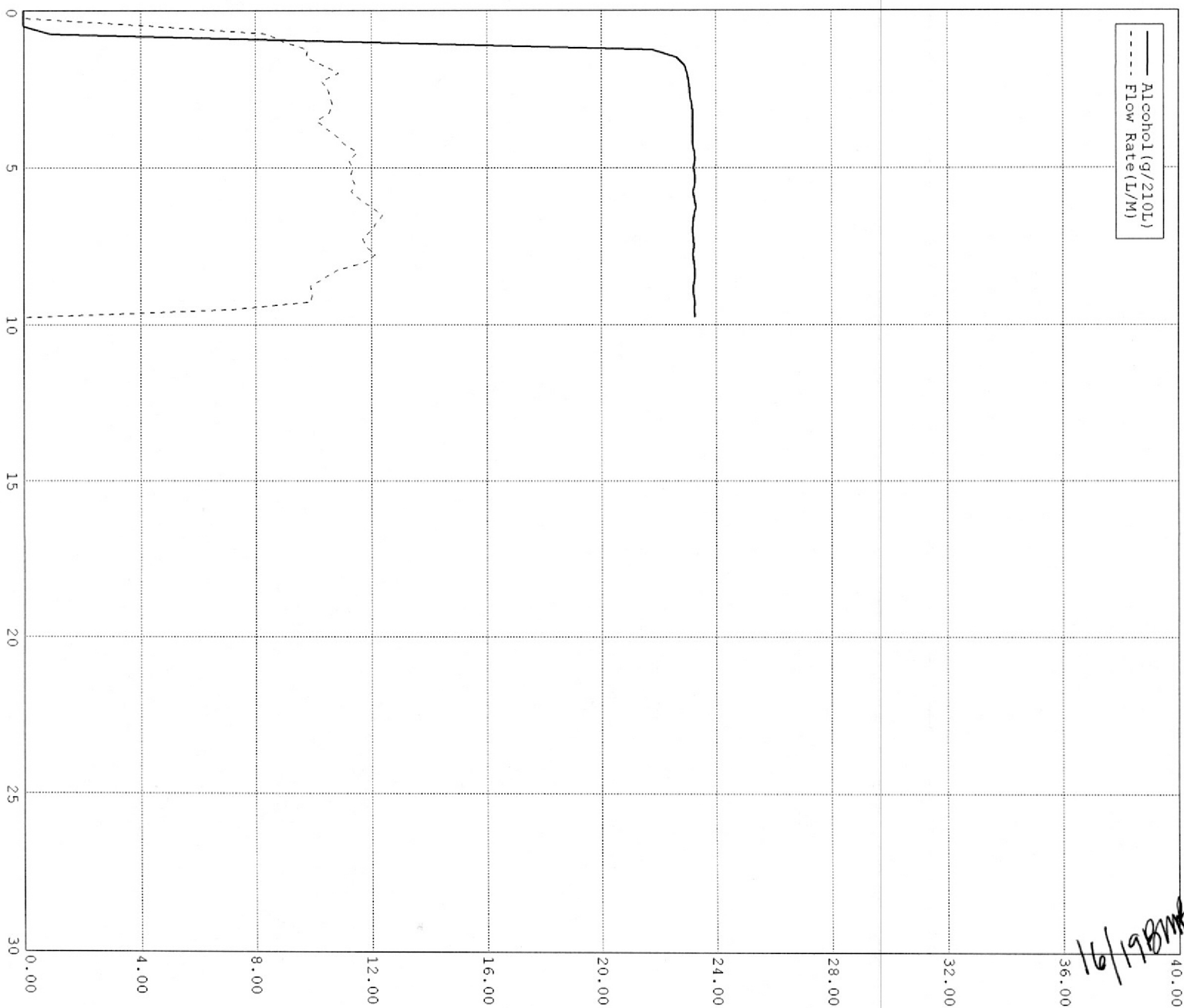
Handwritten signature/initials
15/19

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100350Date: 08/16/2012
Time: 10:06:37SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INTERFERENCE ISOPROPANOL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.94: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:07
BLANK TEST	0.000	10:07
INTERNAL STANDARD	VERIFIED	10:07
Xg = 0.099 (1.22%)		
EXTERNAL STANDARD	0.080	10:08
X[l] = 0.0801 (0.0006)	(0.0005)	
BLANK TEST	0.000	10:09
SUBJECT SAMPLE	INTERFERENCE	10:09
X[l] = 0.1164 (-0.0229)	(-0.0011)	

BMB



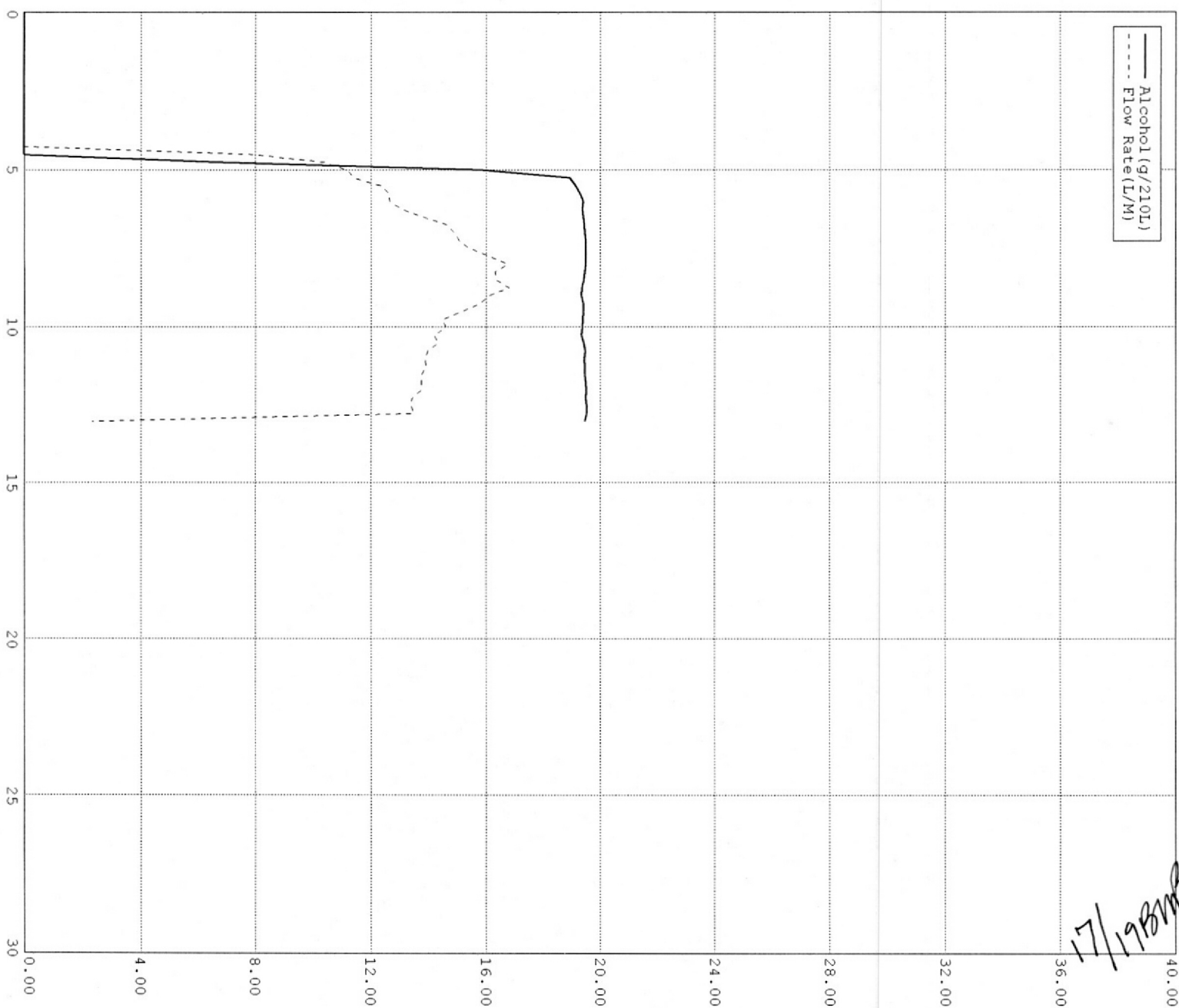
16/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100350Date: 08/16/2012
Time: 09:58:06SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INTERFERENCE NEGATIVE CONTROL
CASE/REPORT: 0.100 SOLUTION
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.94: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:59
BLANK TEST	0.000	09:59
INTERNAL STANDARD	VERIFIED	09:59
Xg = 0.098 (1.84%)		
EXTERNAL STANDARD	0.079	09:59
X[1] = 0.0795 (0.0011) (0.0007)		
BLANK TEST	0.000	10:00
SUBJECT SAMPLE (Vol=1.99L)	0.098	10:00
X[1] = 0.0980 (-0.0019) (-0.0018)		
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.079	10:02
X[1] = 0.0796 (0.0002) (0.0000)		
BLANK TEST	0.000	10:02

BMB

BMB
8/17/12

SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100350

Date: 08/15/2012
 Time: 15:31:51

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

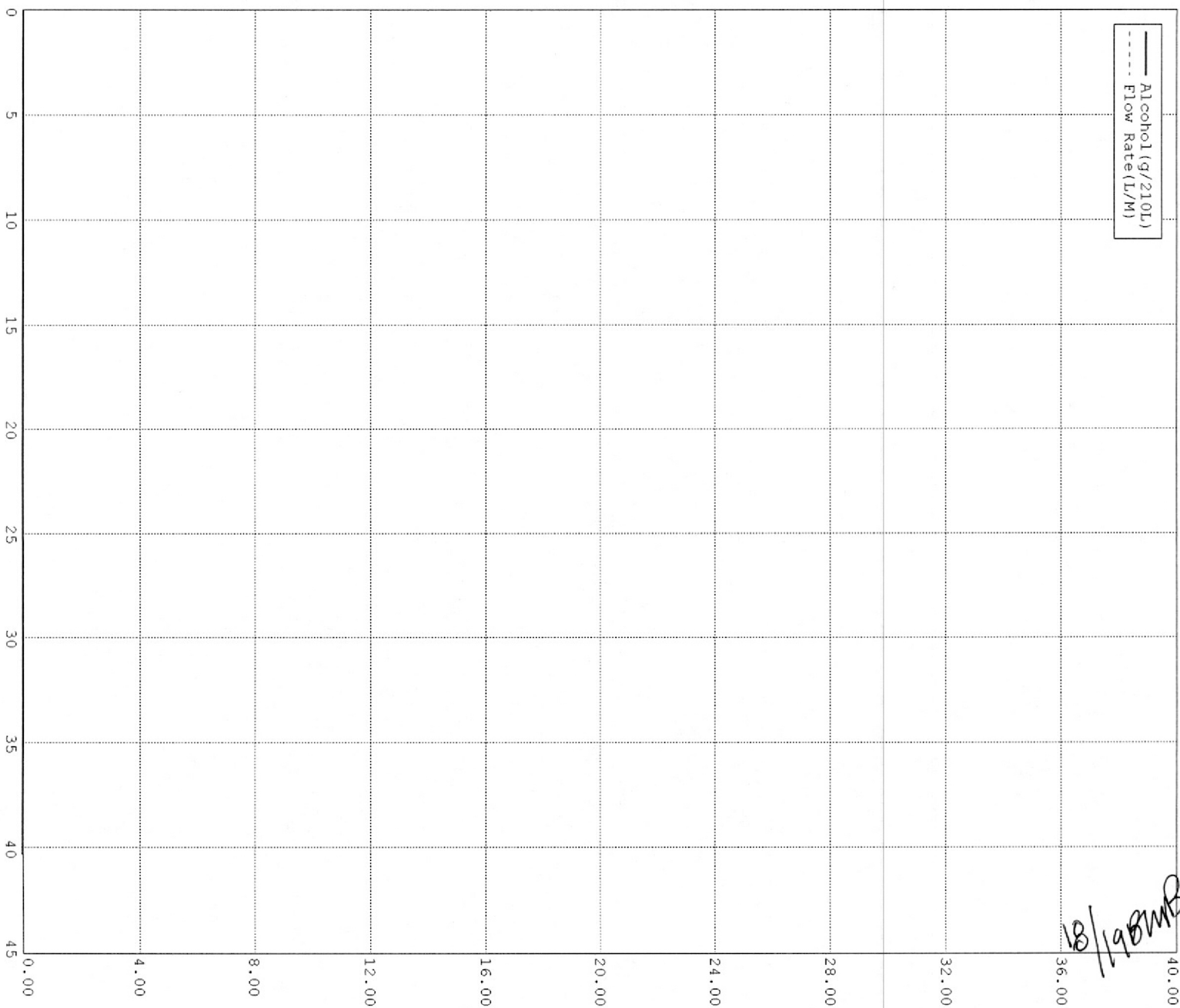
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.98: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:33
BLANK TEST	0.000	15:33
INTERNAL STANDARD	VERIFIED	15:33
EXTERNAL STANDARD	0.080	15:33
BLANK TEST	0.000	15:34

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100350

Date: 08/17/2012
 Time: 13:41:39

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

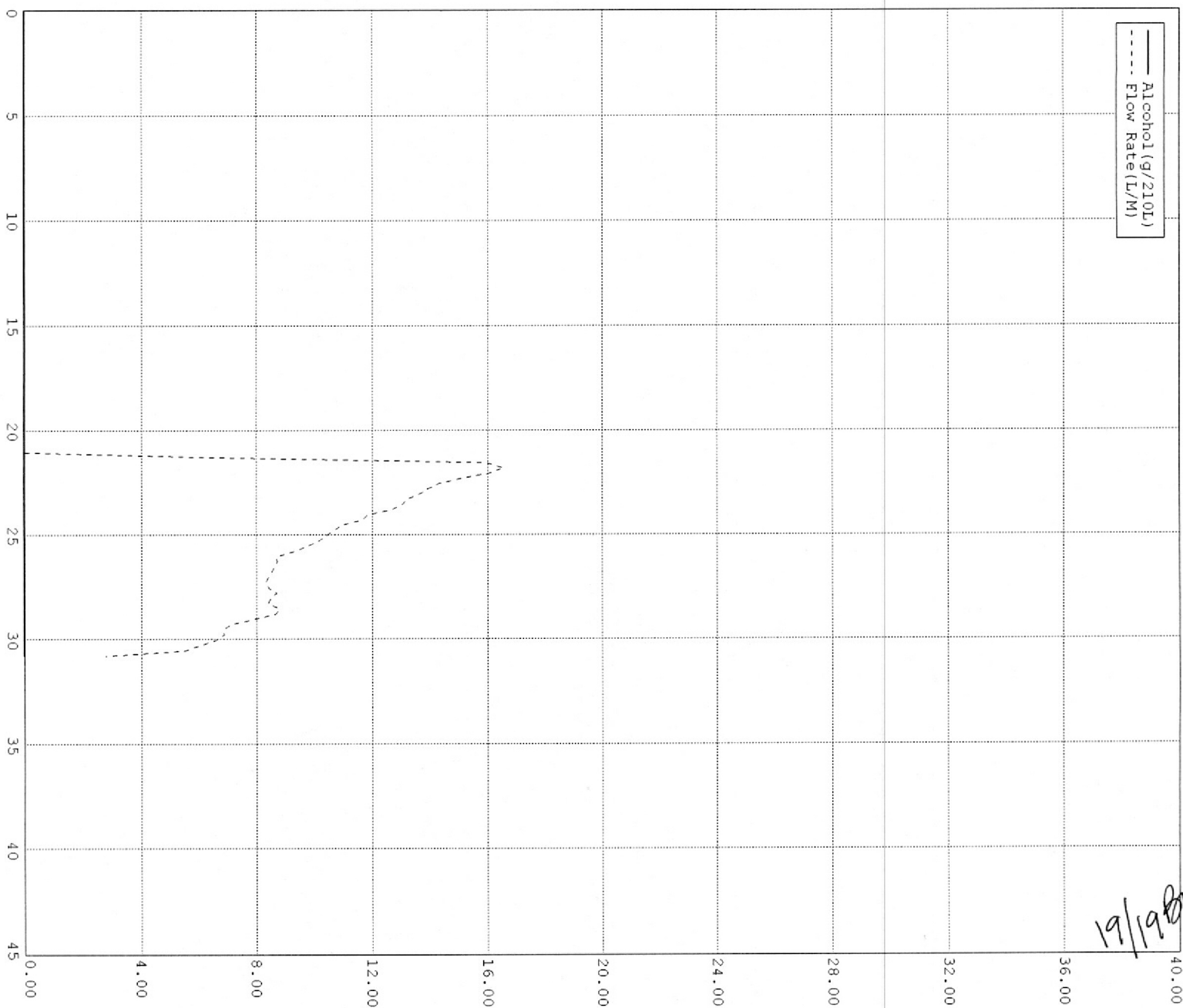
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.79: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:49
BLANK TEST	0.000	13:49
INTERNAL STANDARD	VERIFIED	13:50
EXTERNAL STANDARD	0.079	13:50
BLANK TEST	0.000	13:51
SUBJECT SAMPLE	0.000	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.079	13:52
BLANK TEST	0.000	13:53

Handwritten signature: BMB



Handwritten signature: BMB
 19/19