

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100383 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 07611100A3 Exp 3/1/14 ^{Bmb} 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 1/11/12

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

1. Simulator S/N DR6267 Date Calibrated 6/10/12

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 ☒ ^A

End Date 8/30/12

1/19 Bmb

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100383

Date: 08/28/2012
Time: 09:37:09

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 47.6°C	PASSED

PUMP INFO

Flow Rate = 5.064 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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2/19/8MB

Technician Screen

DATAMASTER dmt: 100383

Date: 08/28/2012

Time: 9:50 AM

Temperatures (°C)

Sample Cell: 49.4°C

Breath Tube: 46.5°C

Current Barometer 29.9 in

Volume (Ltr) 1.50

Settings

Lamp: 1.66 V

Bias: 81 V

Cooler: 1.68 V

Chopper: 547 Hz

Voltages (V)

Flow: 1.06 V

Detector: 0.032 V

3/19 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100383

Date: 03/08/2011
Time: 13:06:25

Ca	=	0.1000	
CAL	=	0.978693	0.800 <= CAL < 1.200
b1	=	0.0000	0.0000 <= b1 < 0.0040
b2	=	0.0046	0.0010 <= b2 < 0.0100
b3	=	0.0005	0.0000 <= b3 < 0.0040
Xq	=	0.0926	0.0500 <= Xq < 0.2000
a21	=	1.169466	1.050 <= a21 < 1.300
a31	=	0.423226	0.300 <= a31 < 0.800

4/19/11 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100383

Date: 08/28/2012
Time: 09:52:59

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

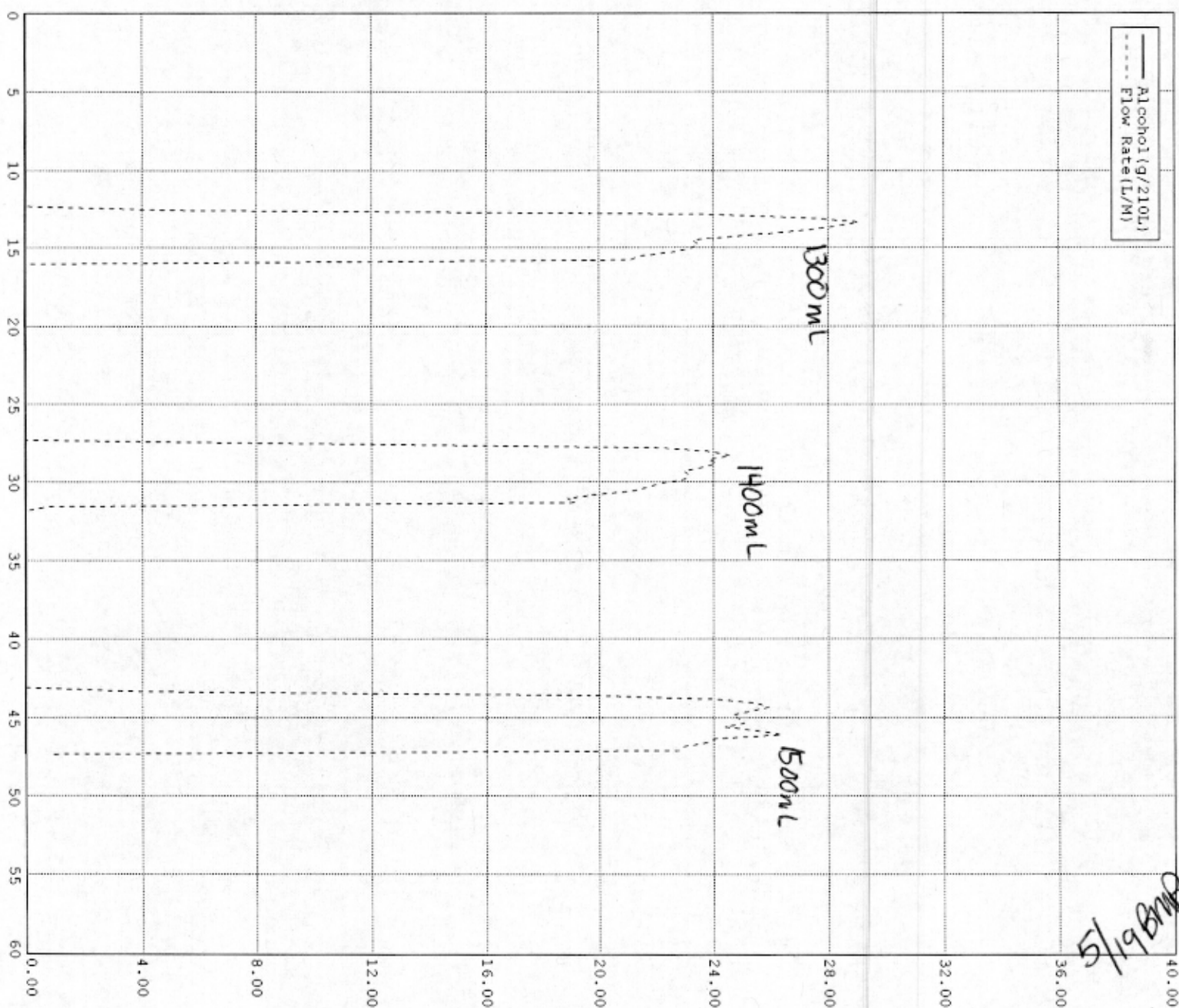
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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	09:54
BLANK TEST	0.000	09:54
INTERNAL STANDARD	0.079	09:54
EXTERNAL STANDARD	0.000	09:55
BLANK TEST	0.000	09:56
SUBJECT SAMPLE	0.000	09:57
EXTERNAL STANDARD	0.080	09:57
BLANK TEST	0.000	09:58

BM



LINEARITY CHECK

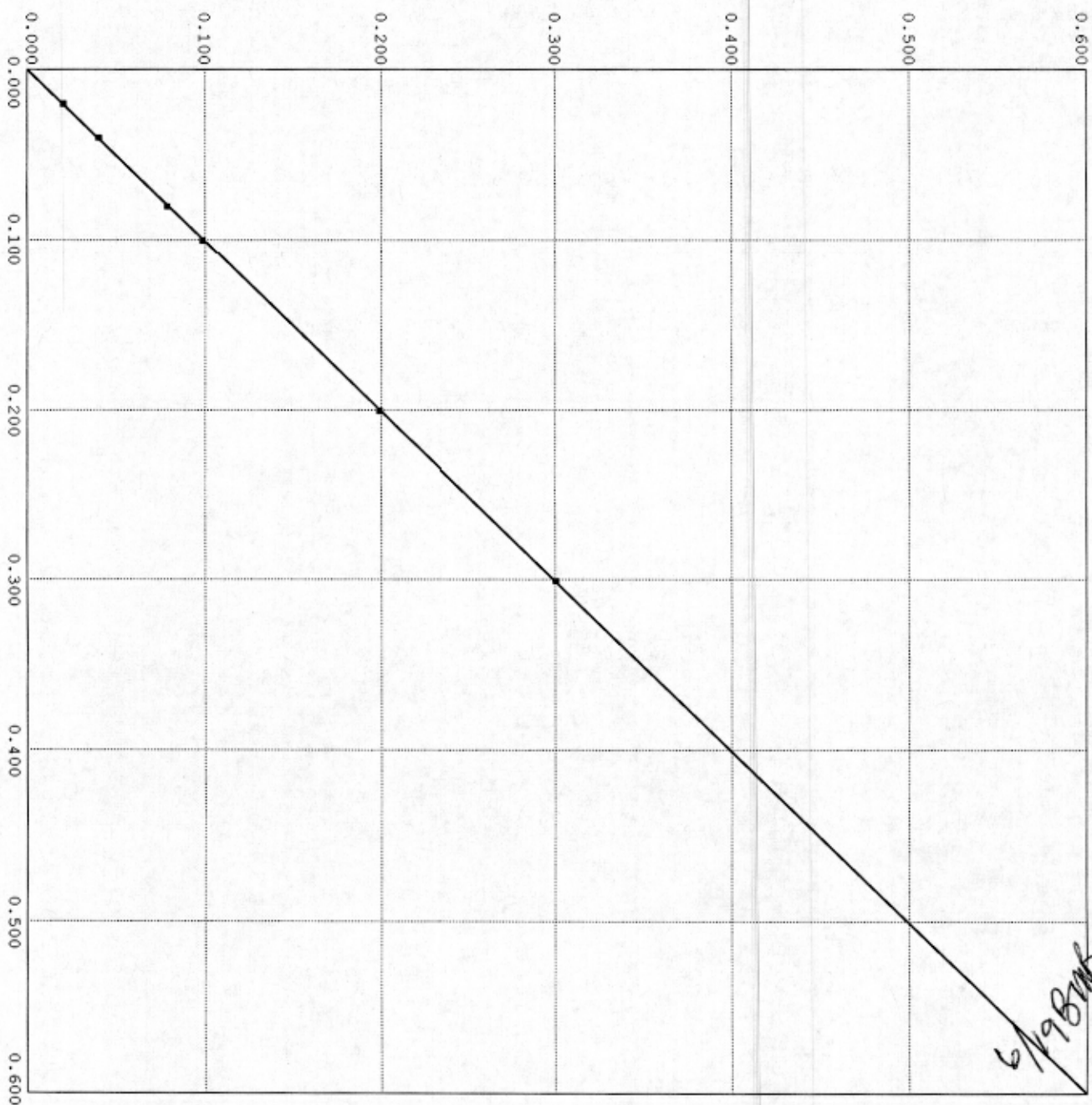
Alaska Department of Public Safety
 DATAMASTER dmt: 100383

Date: 08/28/2012
 Time: 12:43:41

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0211	0.0002
0.040	0.0409	0.0002
0.080	0.0796	0.0002
0.100	0.0995	0.0003
0.200	0.1997	0.0004
0.300	0.3011	0.0004

SLOPE = 1.000294
 R^2 = 0.999946



BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100383

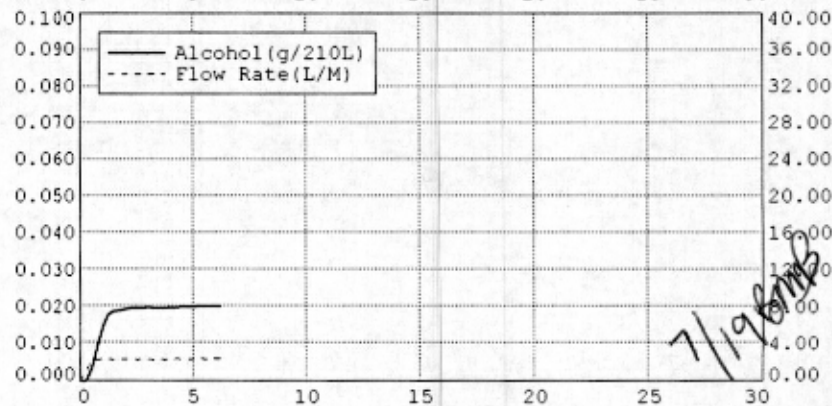
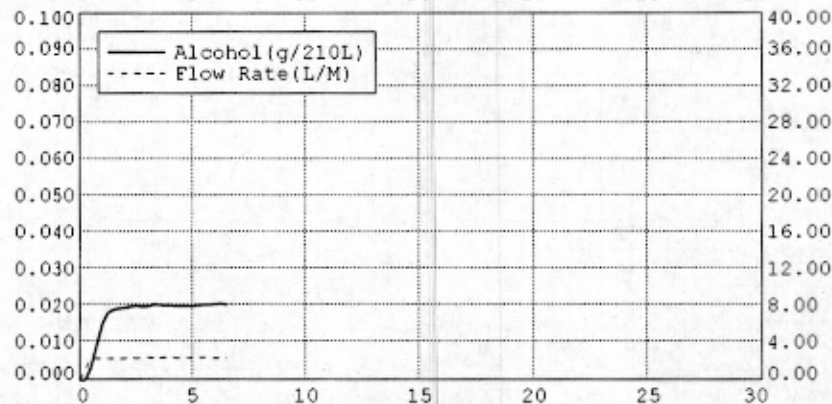
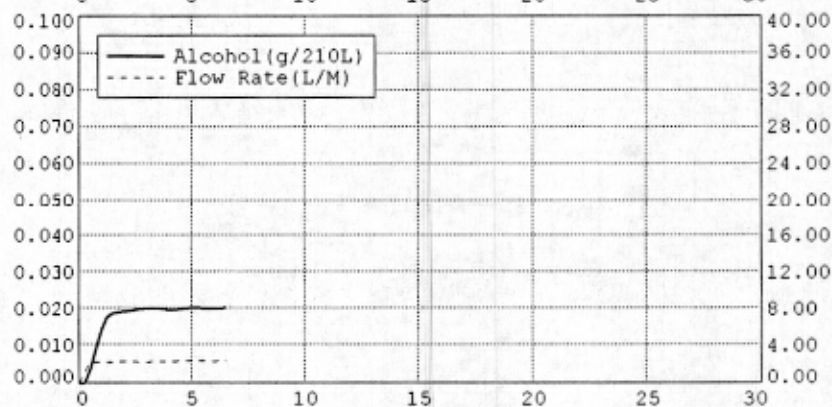
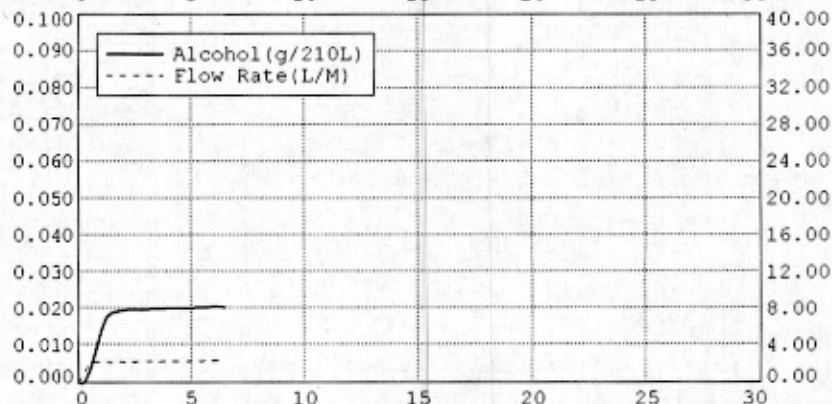
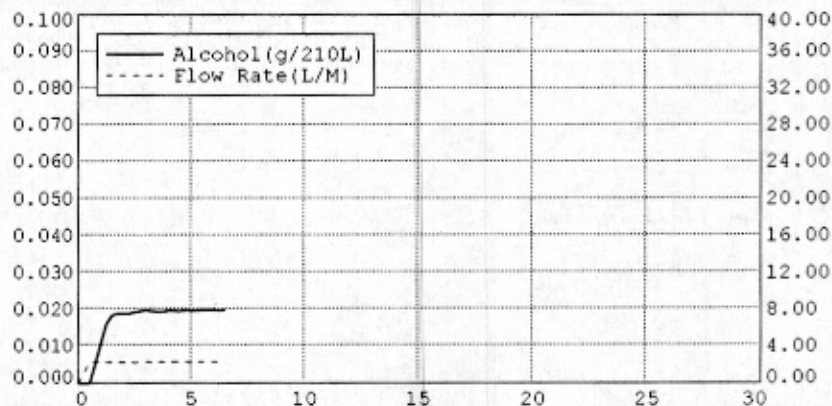
Date: 08/28/2012
Time: 12:43:43

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.94: 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	0.021	12:46
BLANK TEST	0.000	12:47
EXTERNAL STANDARD	0.021	12:47
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.021	12:48
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.021	12:49
BLANK TEST	0.000	12:50

Average = 0.0211
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100383

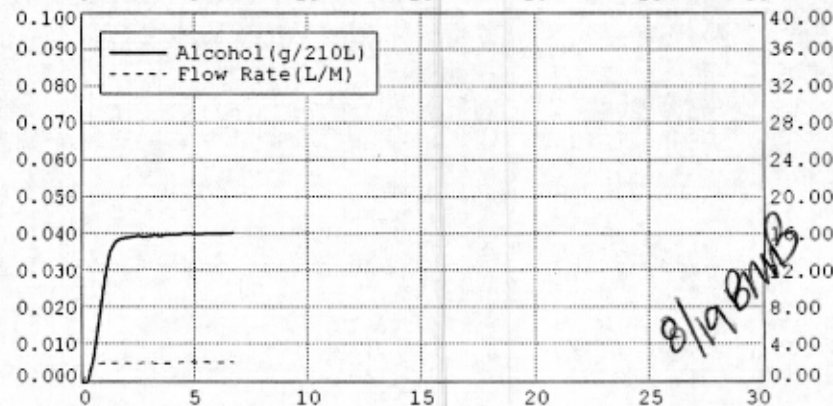
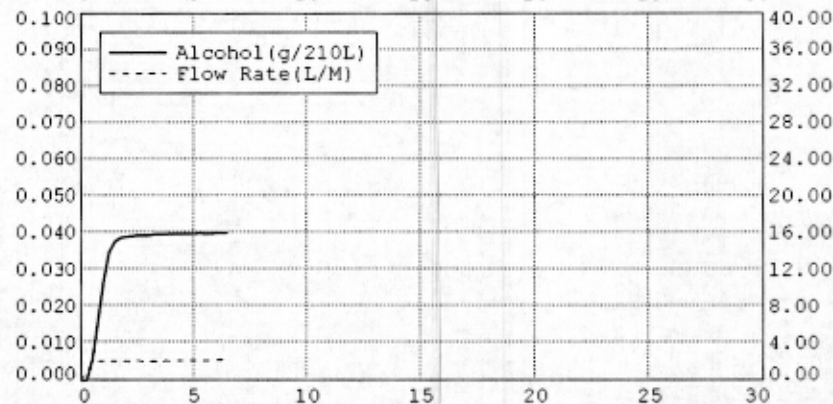
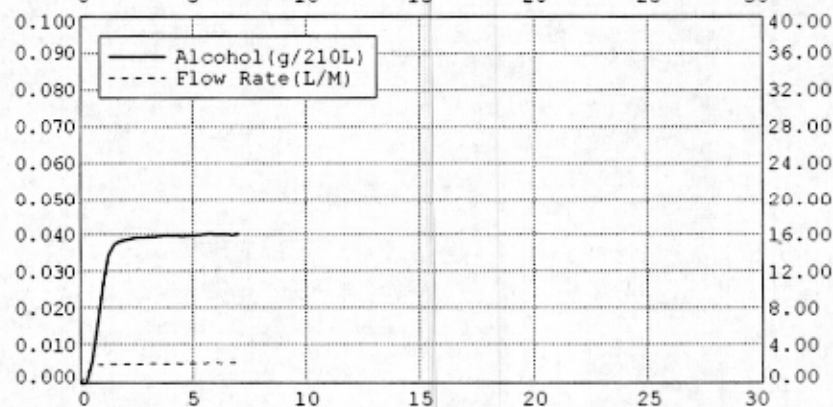
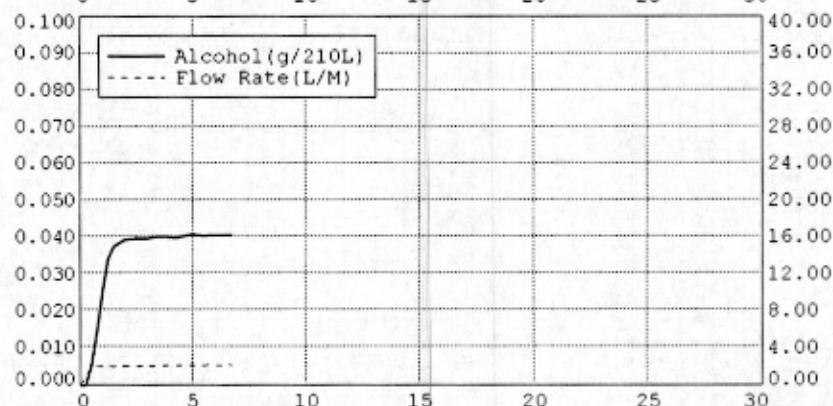
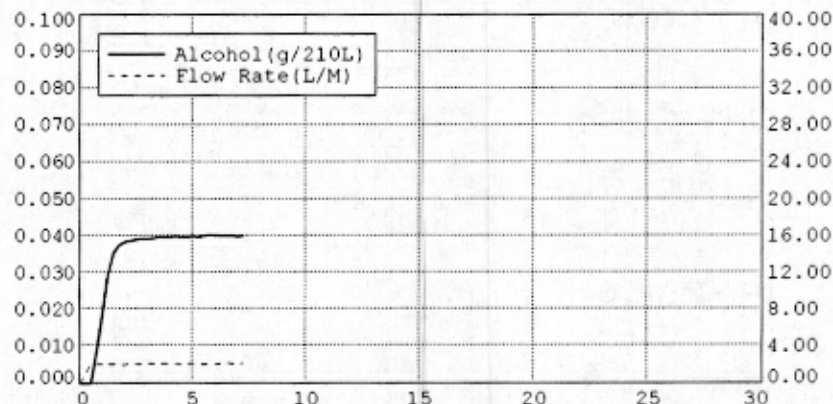
Date: 08/28/2012
Time: 12:52:02

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:53
INTERNAL STANDARD	VERIFIED	12:53
EXTERNAL STANDARD	0.040	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.041	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	0.041	12:57
BLANK TEST	0.000	12:58

Average = 0.0409
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100383

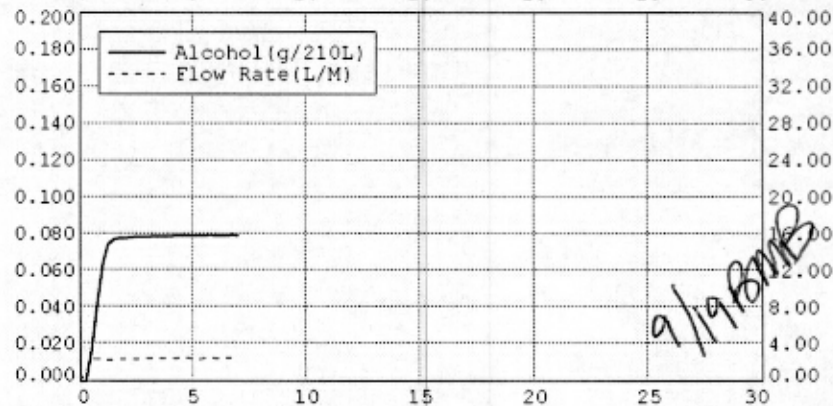
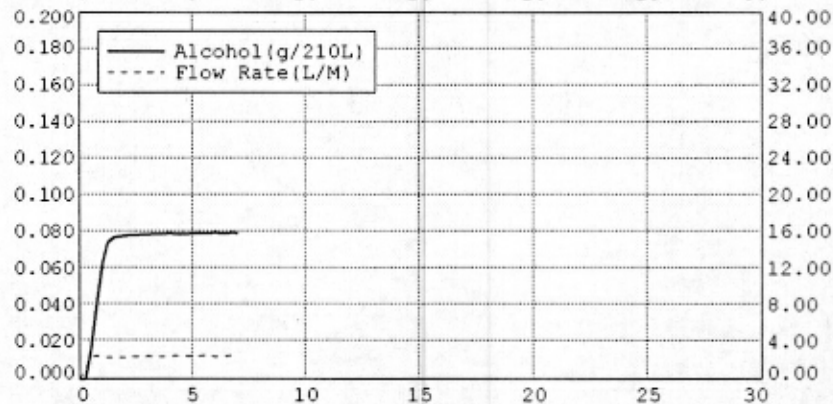
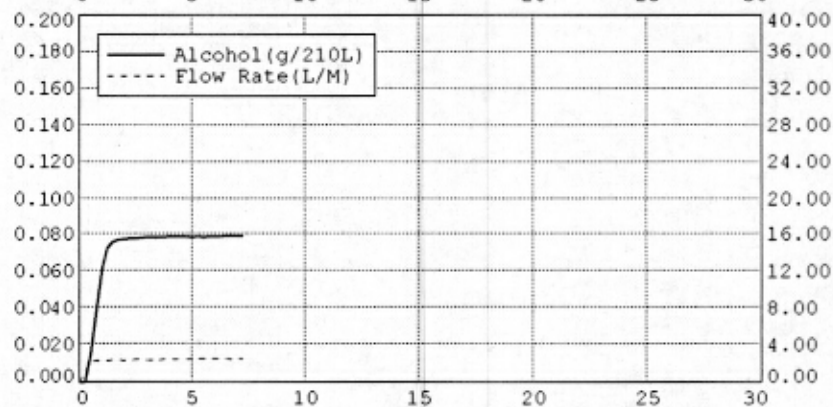
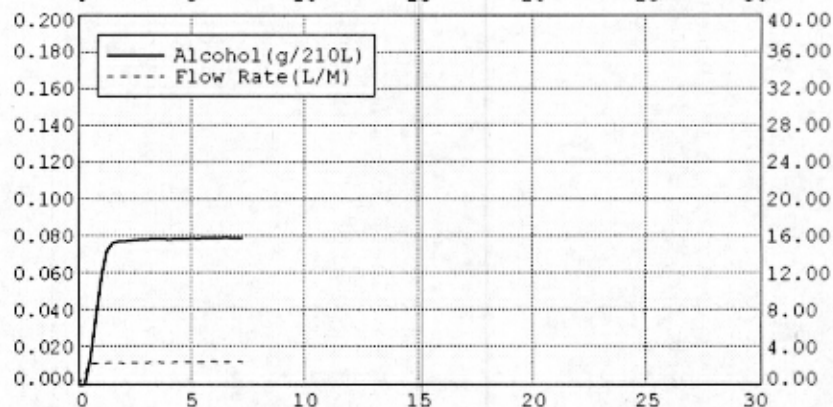
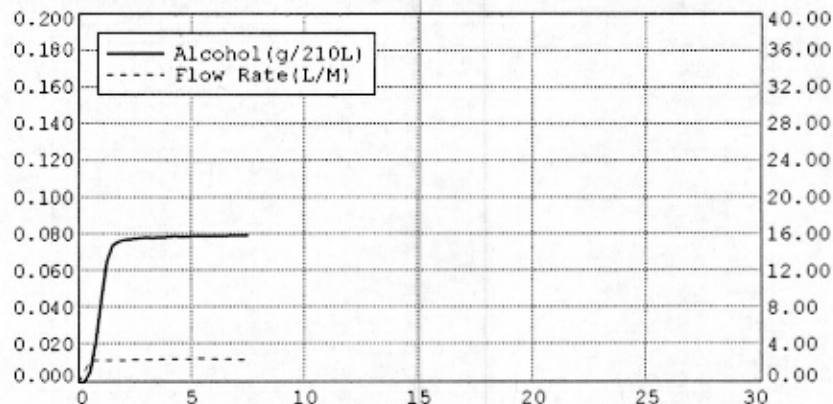
Date: 08/28/2012
Time: 13:03:32

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

Average = 0.0796
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100383

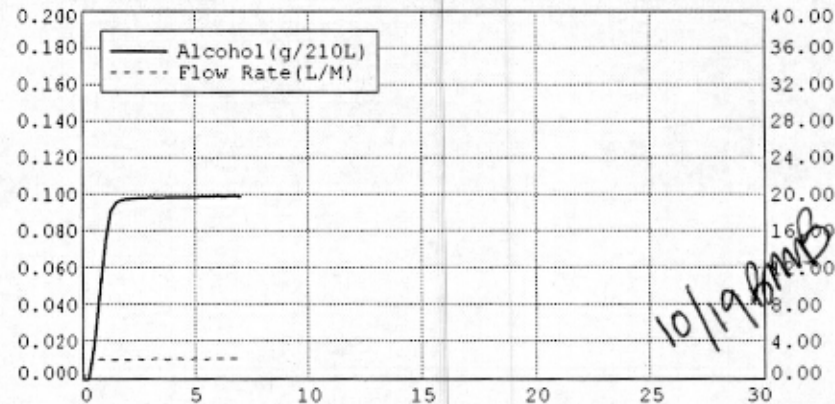
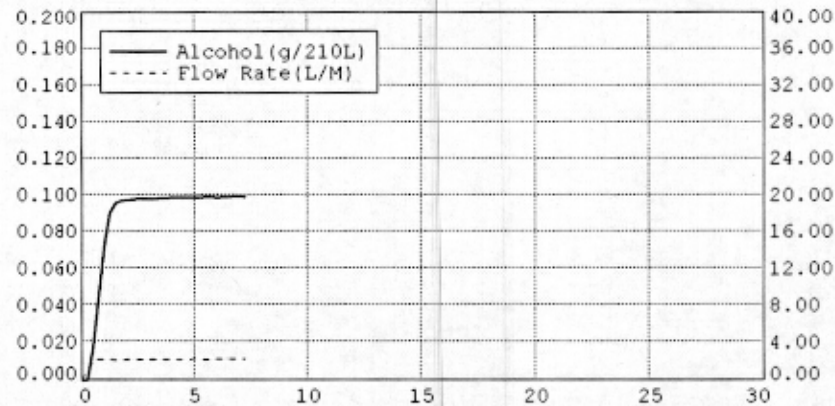
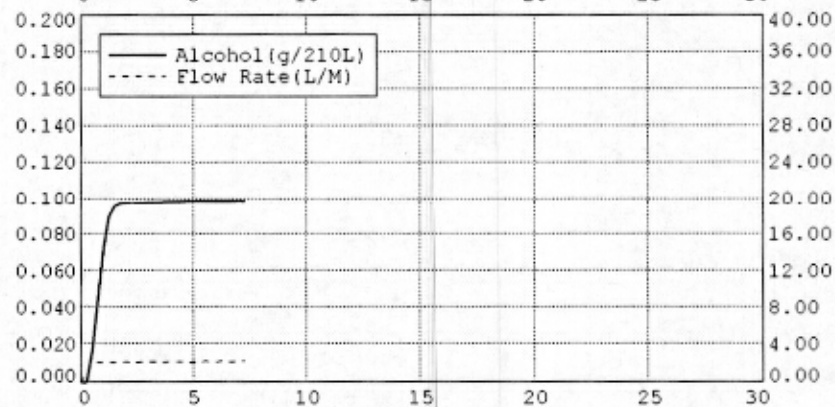
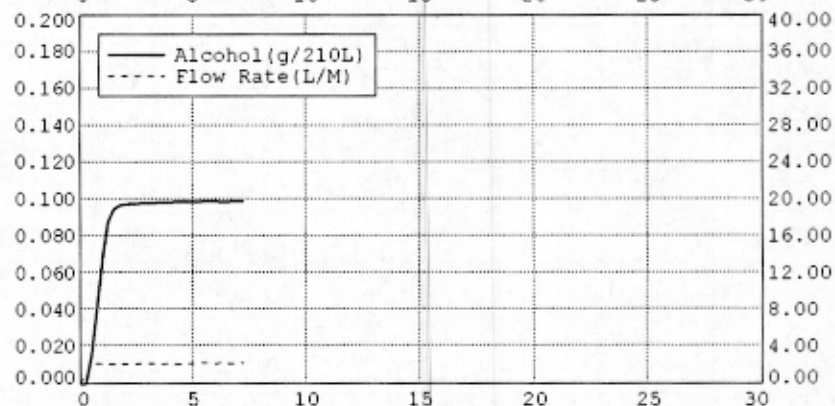
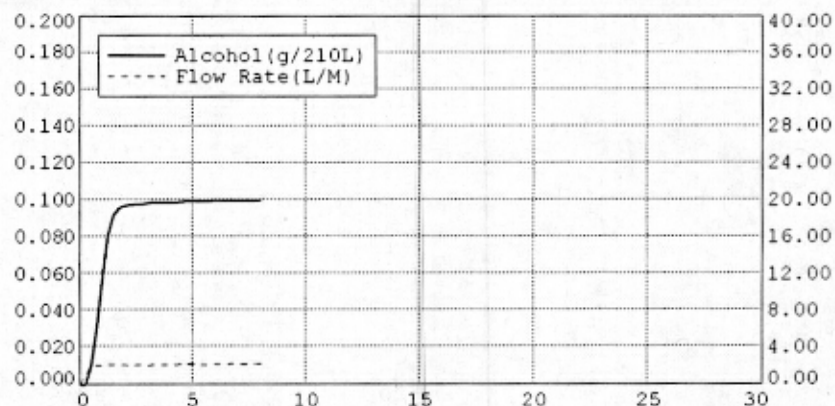
Date: 08/28/2012
Time: 13:12:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.94: 0.100
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:13
INTERNAL STANDARD	VERIFIED	13:13
EXTERNAL STANDARD	0.100	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.099	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.099	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.099	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.099	13:18
BLANK TEST	0.000	13:19

Average = 0.0995
Std Dev = 0.0003



10/19/2012

LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100383

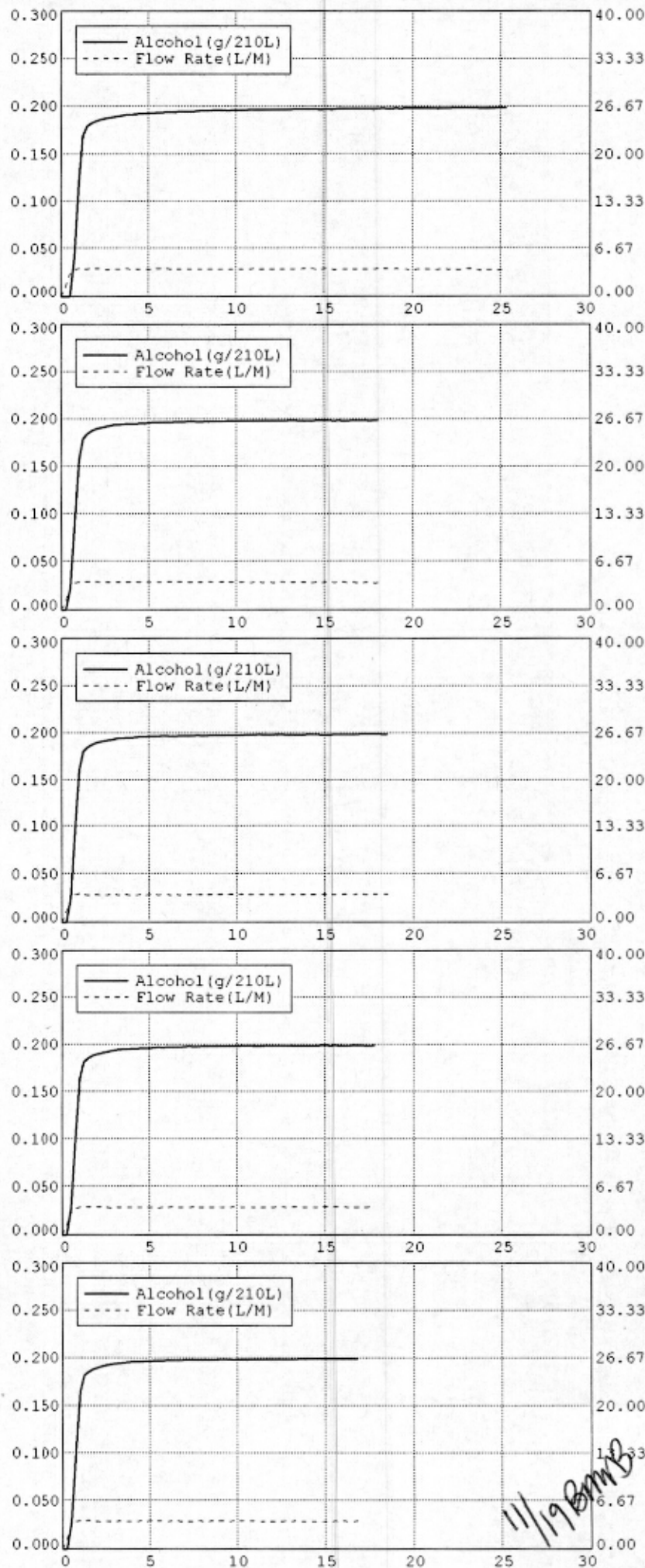
Date: 08/28/2012
Time: 13:29:47

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:30
INTERNAL STANDARD	VERIFIED	13:31
EXTERNAL STANDARD	0.199	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.199	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.199	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.199	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.200	13:36
BLANK TEST	0.000	13:37

Average = 0.1997
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100383

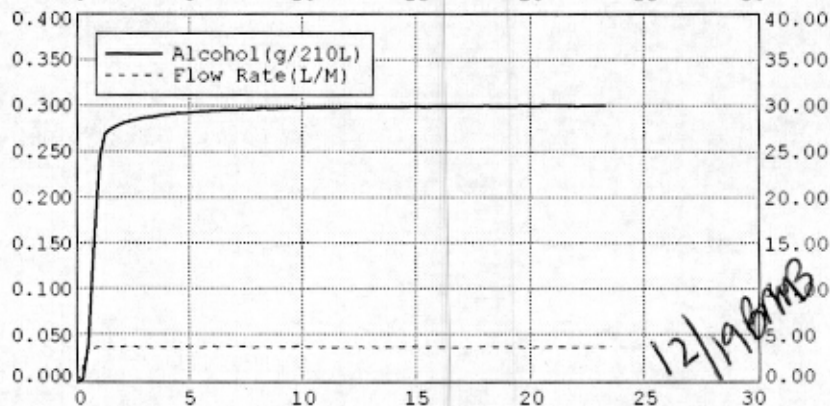
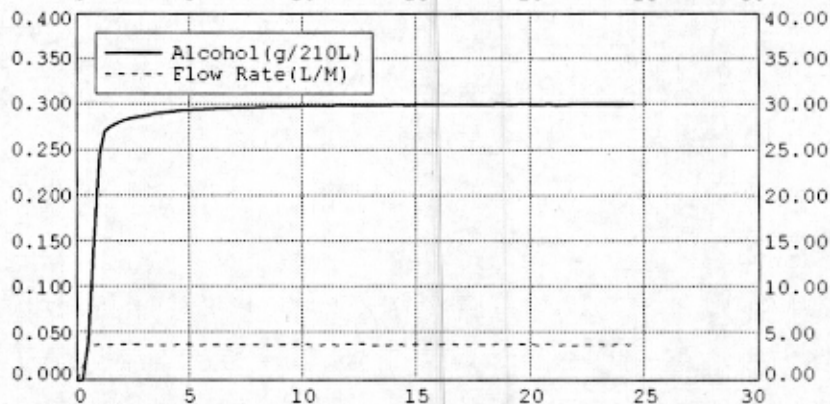
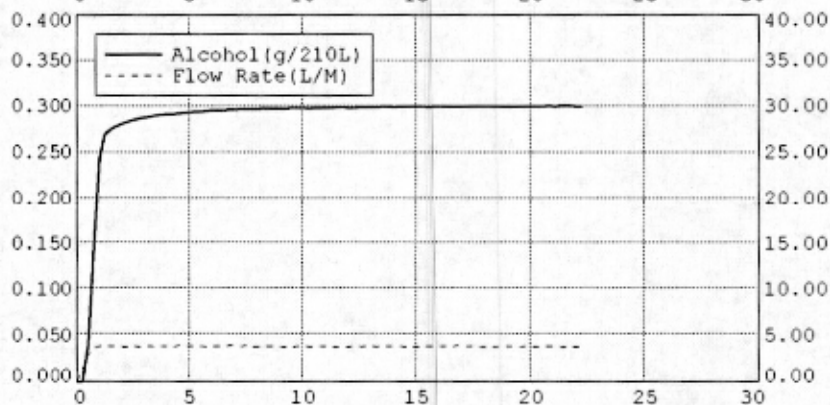
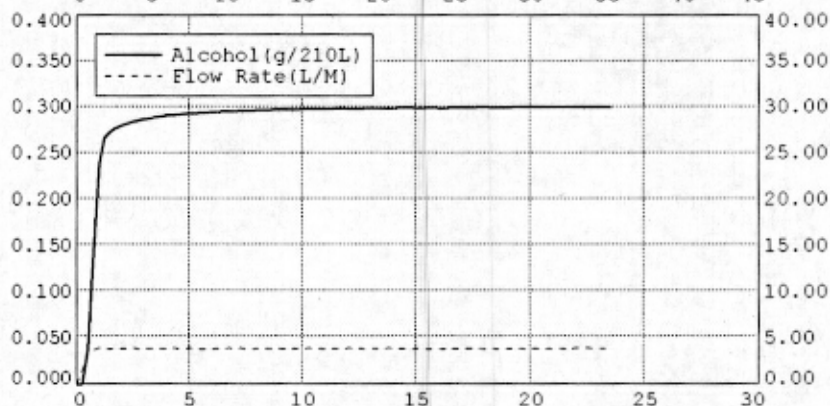
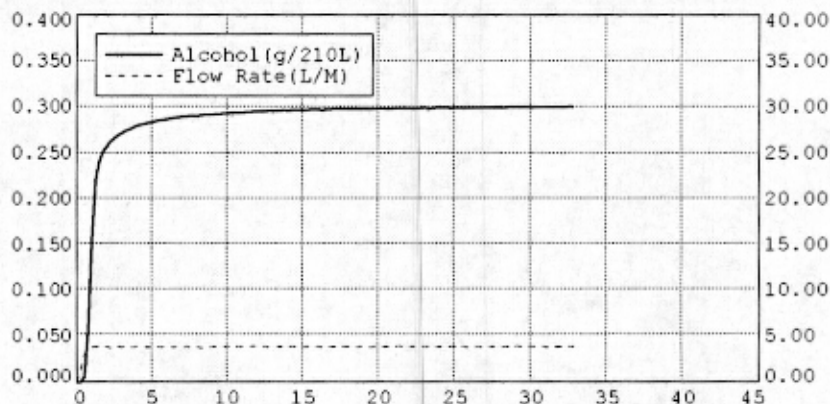
Date: 08/28/2012
Time: 13:41:00

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:42
INTERNAL STANDARD	VERIFIED	13:42
EXTERNAL STANDARD	0.301	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.300	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.301	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.301	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.301	13:48
BLANK TEST	0.000	13:49

Average = 0.3011
Std Dev = 0.0004



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100383

Date: 08/28/2012
 Time: 14:01:29

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

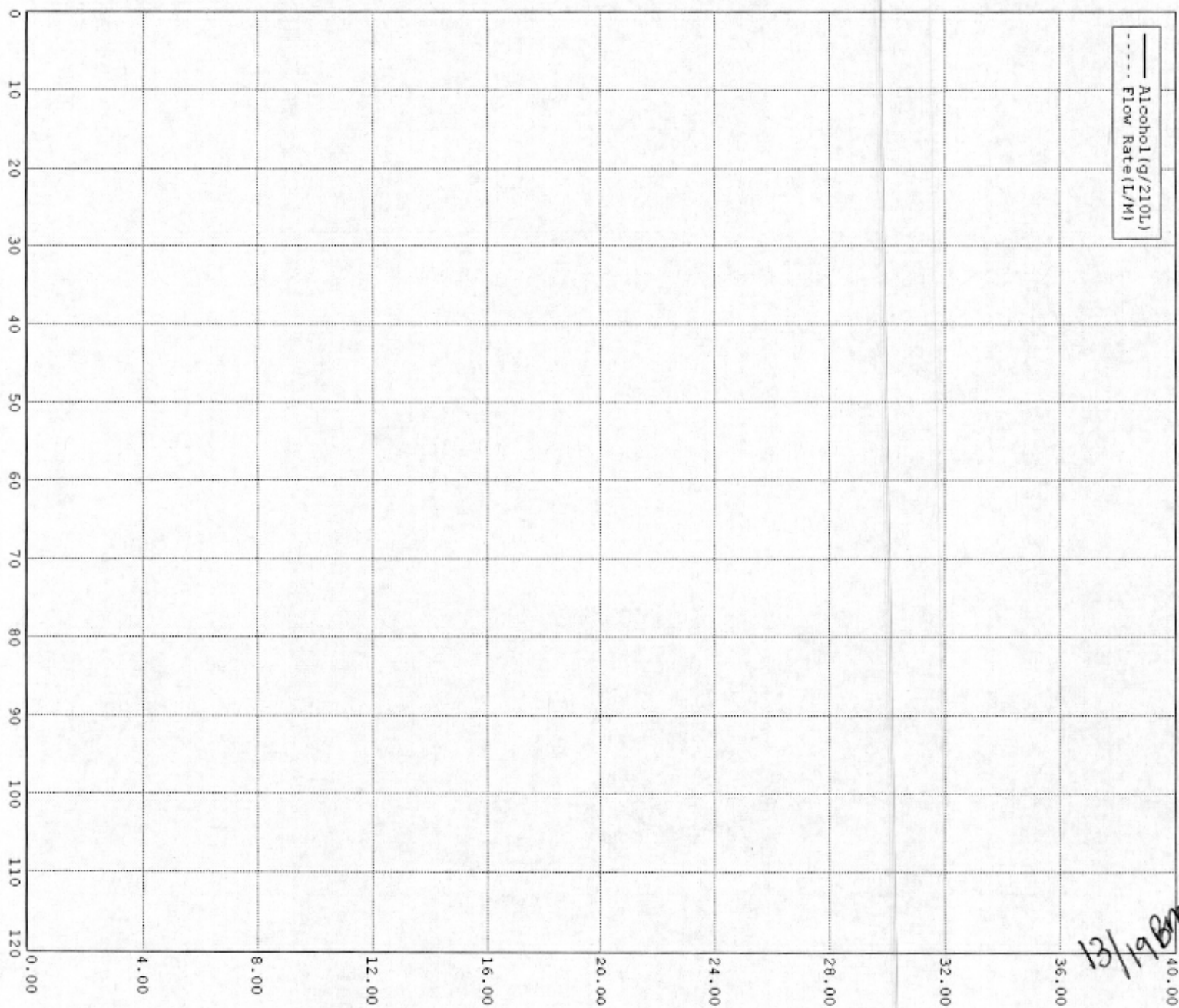
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

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

DIAGNOSTIC CHECK	PASSED	14:02
BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:03
EXTERNAL STANDARD	0.079	14:03
BLANK TEST	0.000	14:04
SUBJECT SAMPLE	INCOMPLETE	14:06

BBMB



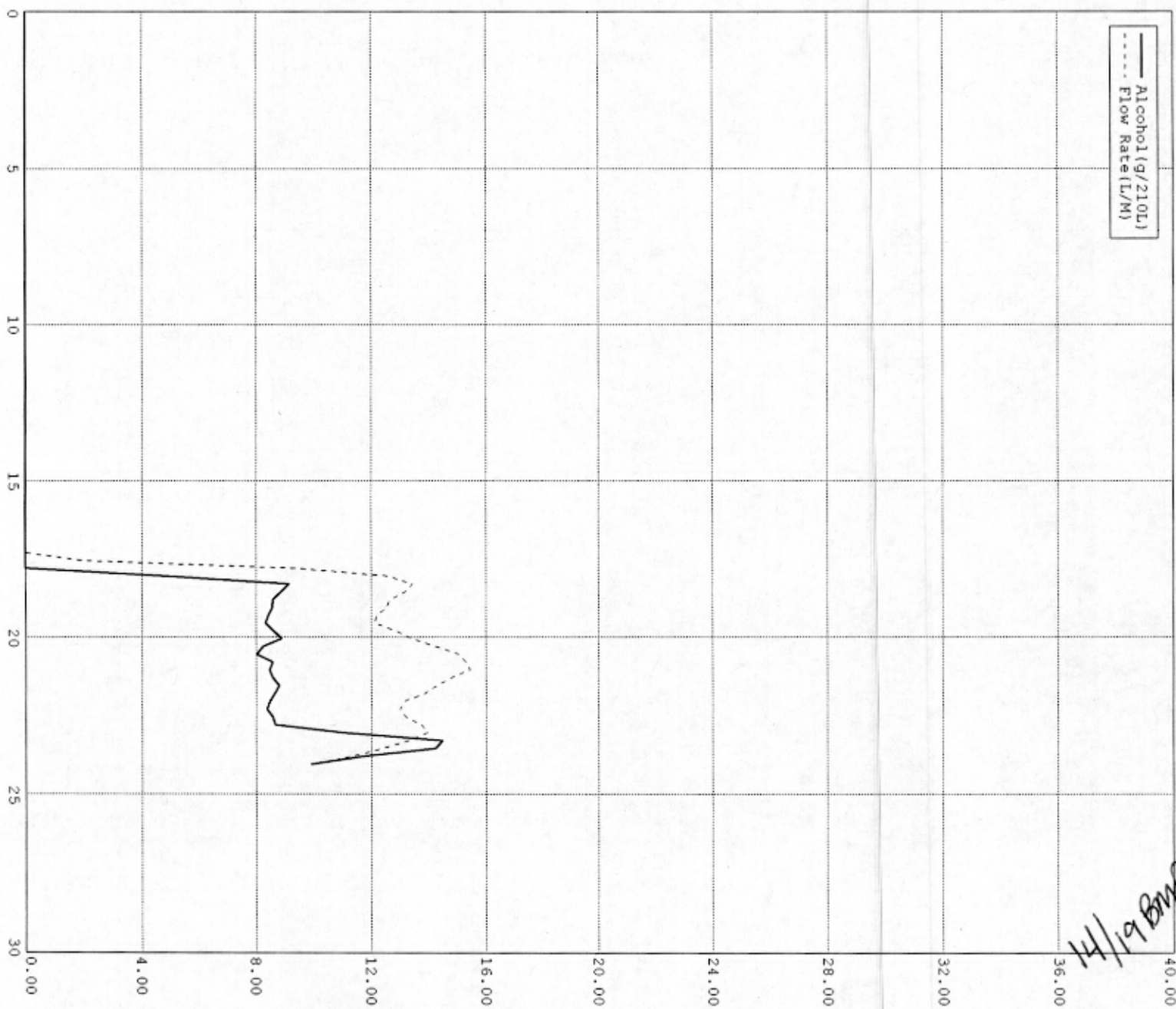
13/6/13 BBMB

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100383Date: 08/28/2012
Time: 14:17:28SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INVALID
CASE/REPORT: MOUTH ALCOHOL
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:20
BLANK TEST	0.000	14:20
INTERNAL STANDARD	VERIFIED	14:20
EXTERNAL STANDARD	0.079	14:20
BLANK TEST	0.000	14:21
SUBJECT SAMPLE	INVALID	14:22

BMB



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100383

Date: 08/28/2012
 Time: 14:10:24

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

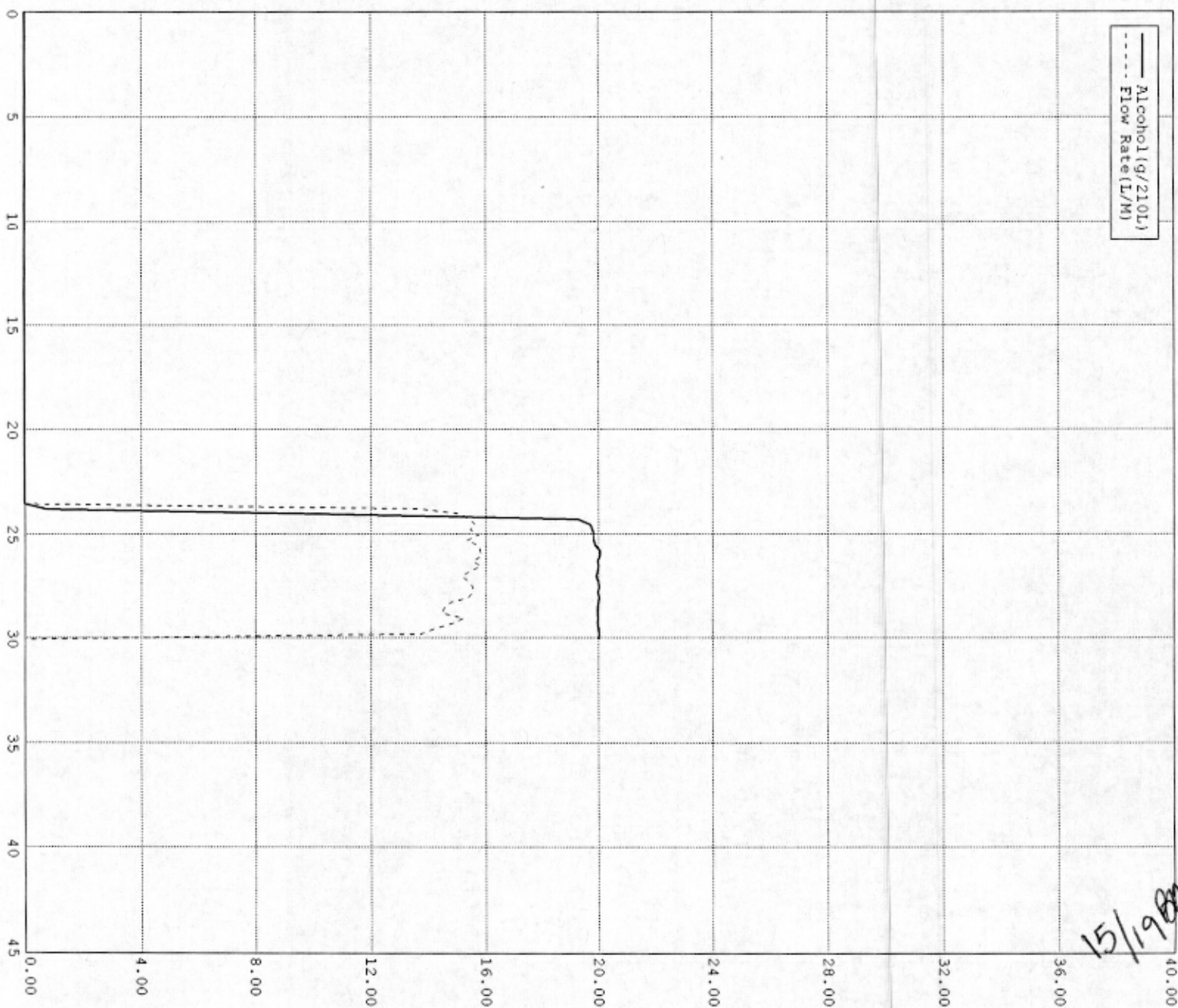
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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	14:11
BLANK TEST	0.000	14:11
INTERNAL STANDARD	VERIFIED	14:11
X _Q = 0.092 (0.75%)		
EXTERNAL STANDARD	0.079	14:12
X[1] = 0.0794 (-0.0004)	(0.0029)	
BLANK TEST	0.000	14:13
SUBJECT SAMPLE	INTERFERENCE	14:13
X[1] = 0.1000 (-0.0157)	(0.0020)	

Handwritten signature: BMB



Handwritten date and signature: 15/1/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100383

Date: 08/28/2012
 Time: 14:39:11

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

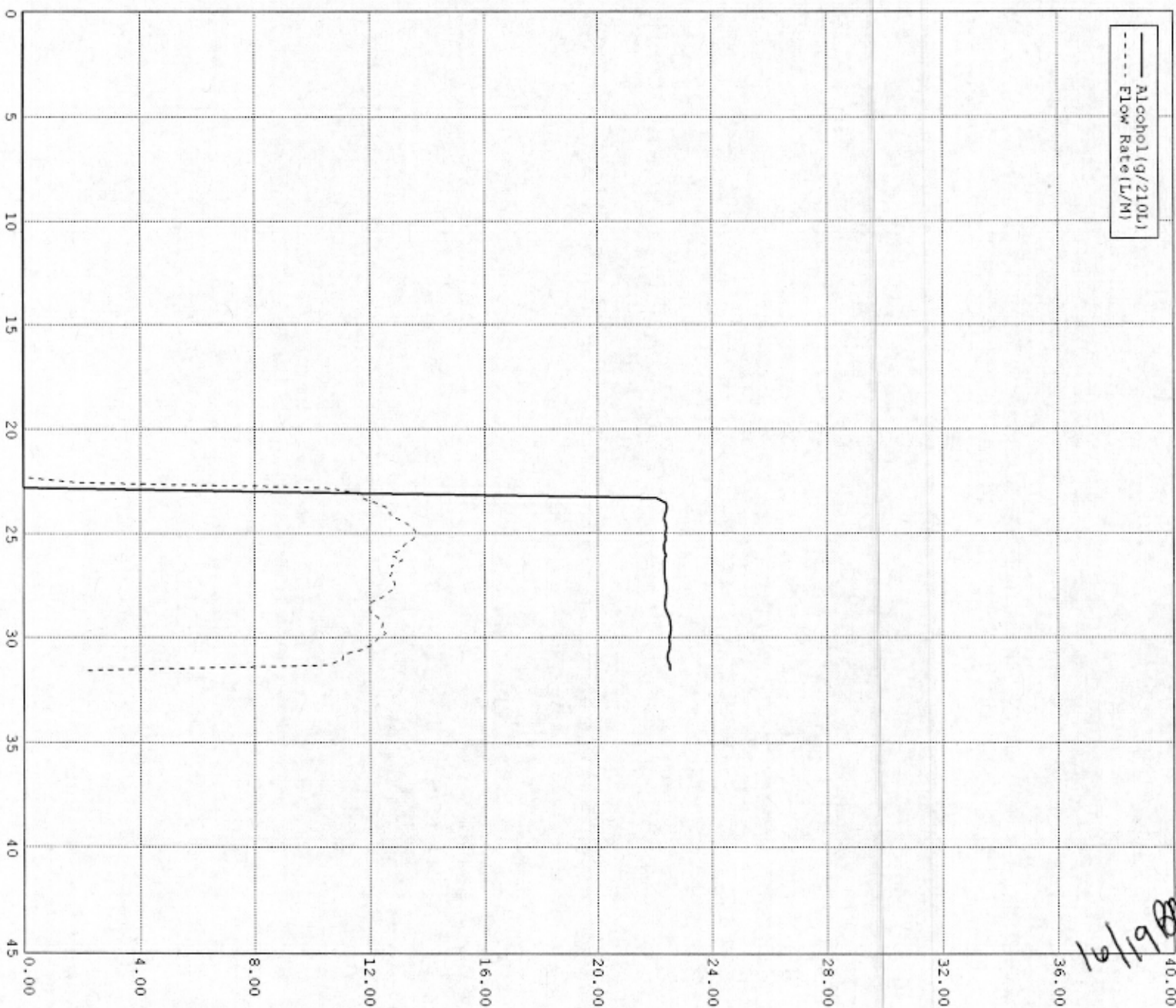
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

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

DIAGNOSTIC CHECK	PASSED	14:41
BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:41
Xq = 0.092 (0.19%)		
EXTERNAL STANDARD	0.079	14:41
X[1] = 0.0798 (-0.0006) (0.0041)		
BLANK TEST	0.000	14:42
SUBJECT SAMPLE	INTERFERENCE	14:43
X[1] = 0.1130 (-0.0252) (0.0053)		

BBMB



BBMB
 8/29/12

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100383

Date: 08/28/2012
 Time: 14:45:47

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

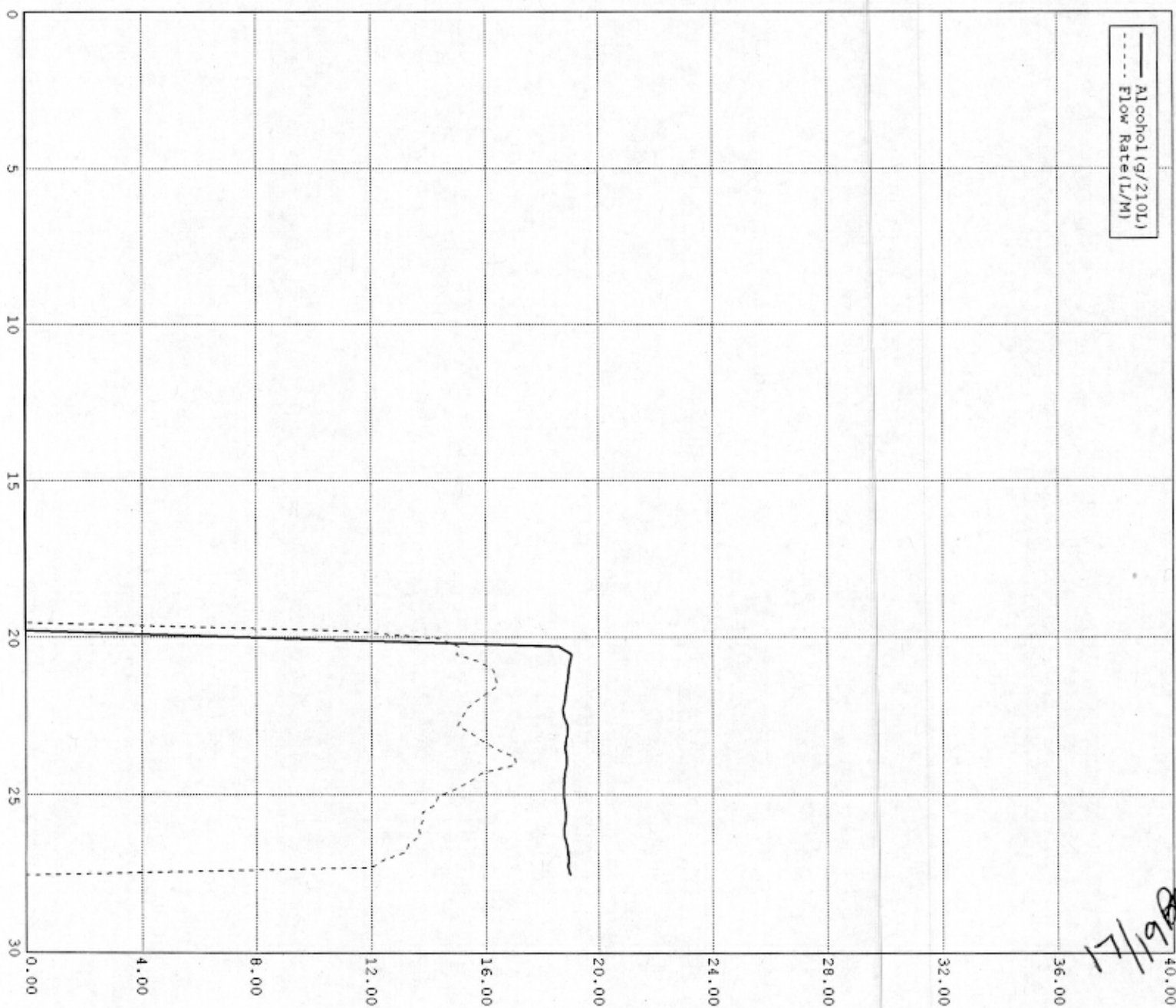
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

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

DIAGNOSTIC CHECK	PASSED	14:46
BLANK TEST	0.000	14:46
INTERNAL STANDARD	VERIFIED	14:47
Xq = 0.093 (0.008)		
EXTERNAL STANDARD	0.079	14:47
X[1] = 0.0799 (-0.0001)	(0.0033)	
BLANK TEST	0.000	14:48
SUBJECT SAMPLE (Vol=1.92L)	0.095	14:48
X[1] = 0.0950 (-0.0018)	(0.0036)	
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.079	14:49
X[1] = 0.0798 (-0.0003)	(0.0035)	
BLANK TEST	0.000	14:50

BMB

BMB
6/1/17

SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100383

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

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

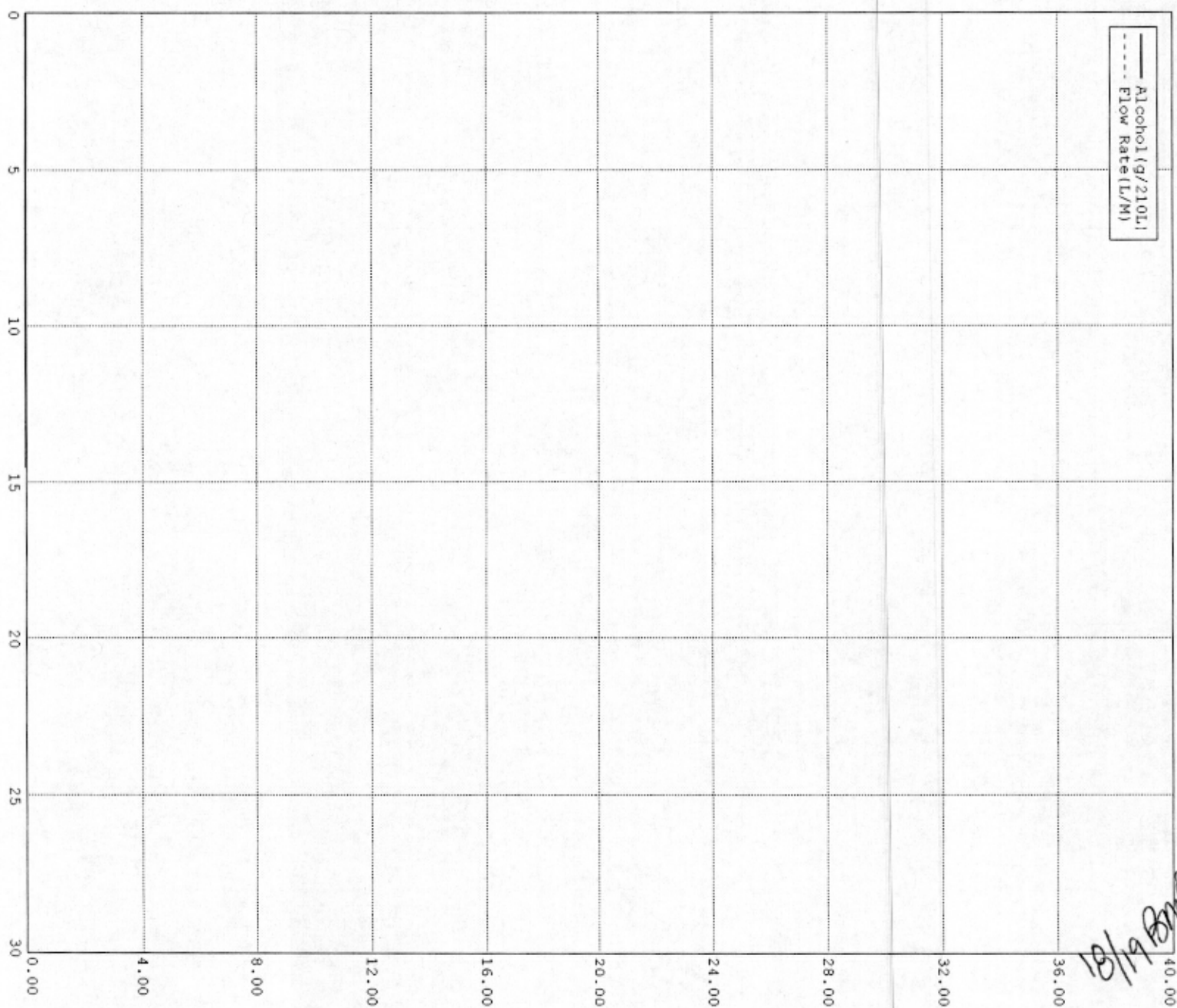
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

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

DIAGNOSTIC CHECK	PASSED	14:26
BLANK TEST	0.000	14:26
INTERNAL STANDARD	VERIFIED	14:26
EXTERNAL STANDARD	0.079	14:26
BLANK TEST	0.000	14:27

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100383

Date: 08/29/2012
 Time: 09:15:25

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

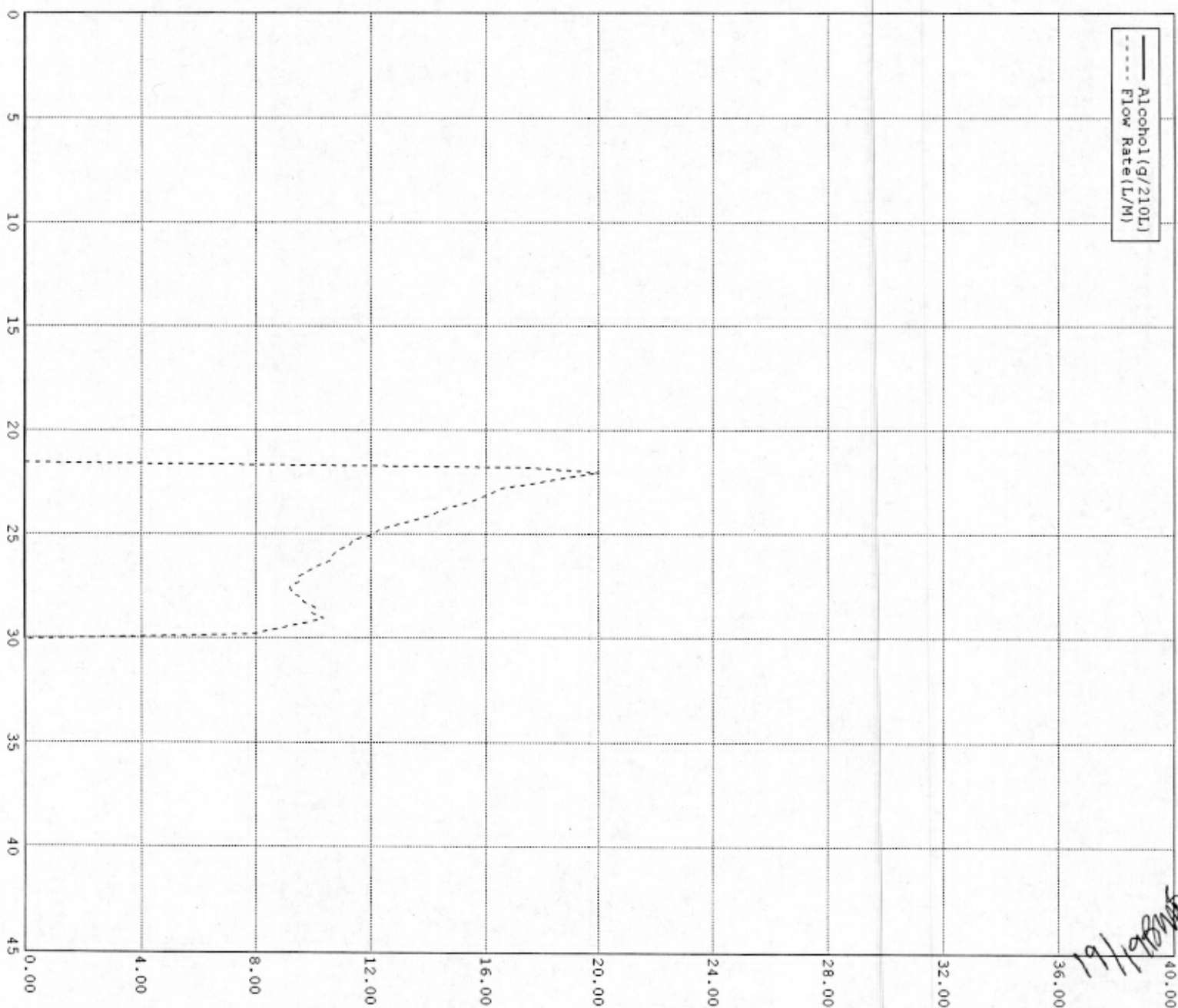
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

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

DIAGNOSTIC CHECK	PASSED	09:16
BLANK TEST	0.000	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

Brandi Barnett



Final page for report

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7/3/2014