

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100384 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 → 02012080A1
 - ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/13
 - iii. 0.080g/210L Mnf ILMO Lot 07611100A3 Exp 03/01/13 BMB 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 02/21/2012

5. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference
- d. RFI
- i. Acetone - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/2013
 - 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 DR6267 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

- 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 N/A

End Date 8/17/12

1/19/13 BMB

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 08/14/2012
Time: 15:13:09

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

TEMPERATURES

Sample Chamber = 49.1°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 5.243 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 BMB

Technician Screen

DATAMASTER dmt: 100384

Date: 08/14/2012
Time: 3:42 PM

Temperatures (°C)
Sample Cell: 49.7°C
Breath Tube: 47.8°C

Current Barometer 29.9 in
Volume (Ltr) 1.56

Settings
Lamp: 1.65 V
Bias: 80 V
Cooler: 1.57 V
Chopper: 532 Hz

Voltages (V)
Flow: 1.05 V
Detector: -0.058 V

3/19 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100384

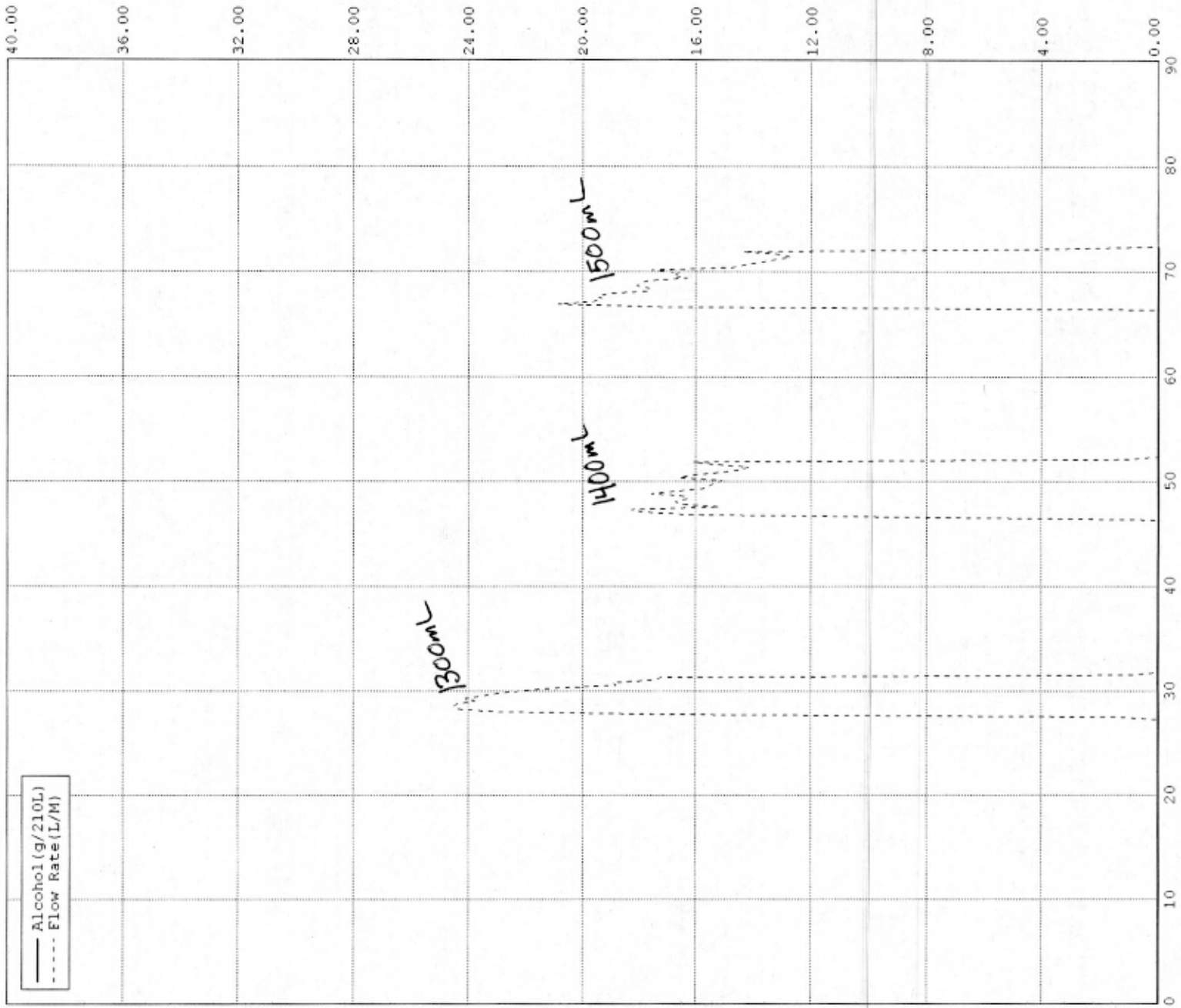
Date: 04/26/2011
Time: 08:39:23

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2012

Ca = 0.1000
CAL = 0.964532 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0054 0.0010 <= b2 < 0.0100
b3 = 0.0004 0.0000 <= b3 < 0.0040
Xq = 0.0829 0.0500 <= Xq < 0.2000
a21 = 1.181030 1.050 <= a21 < 1.300
a31 = 0.525071 0.300 <= a31 < 0.800

4/19/2011



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100384

 Date: 08/14/2012
 Time: 15:43:55


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	15:45
BLANK TEST	0.000	15:45
INTERNAL STANDARD	VERIFIED	15:45
EXTERNAL STANDARD	0.079	15:45
BLANK TEST	0.000	15:46
SUBJECT SAMPLE	0.000	15:47
BLANK TEST	0.000	15:48
EXTERNAL STANDARD	0.079	15:48
BLANK TEST	0.000	15:49


 5/19/12 BMB

LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100384

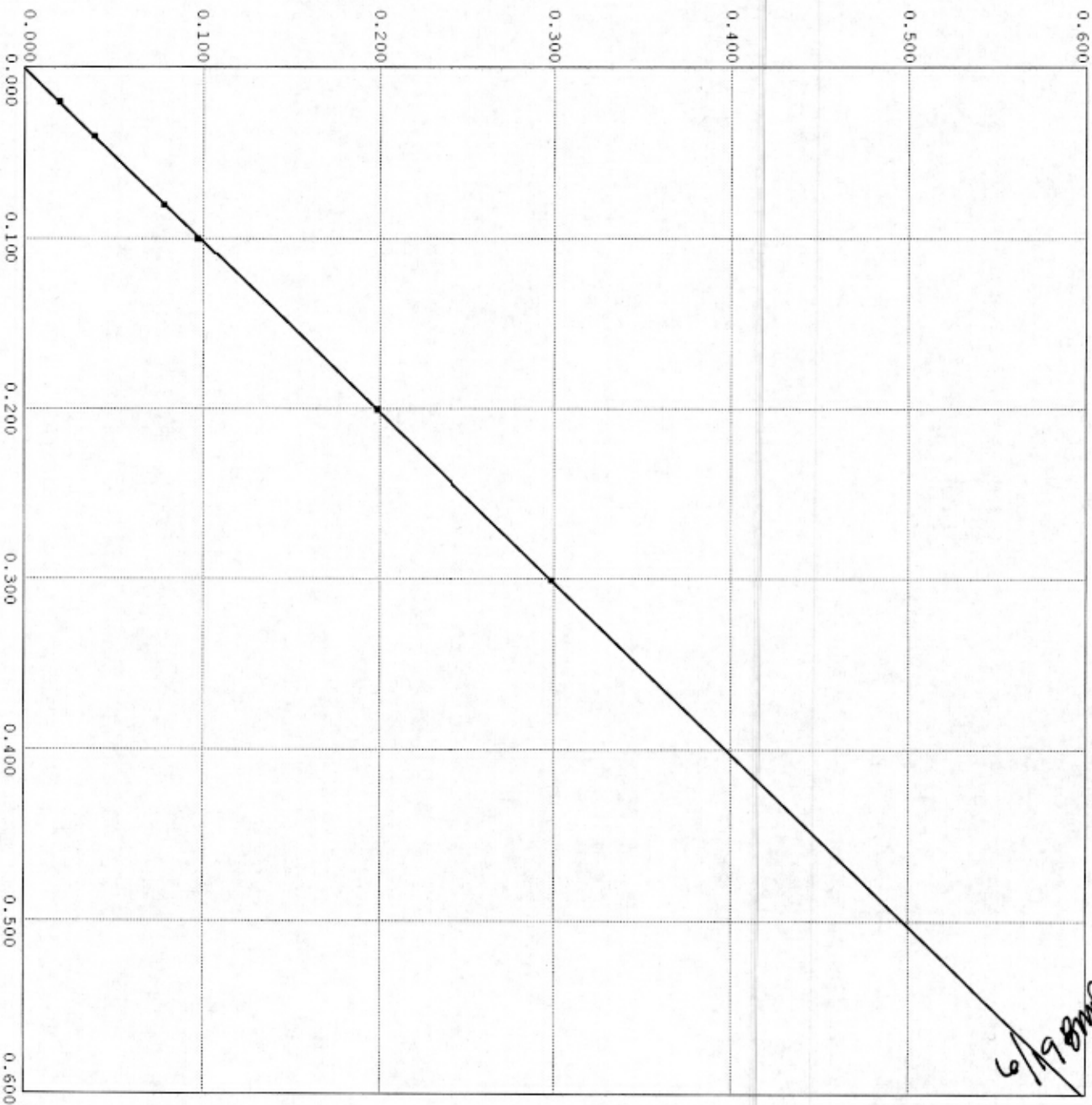
Date: 08/15/2012
 Time: 13:43:39

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0203	0.0002
0.040	0.0399	0.0001
0.080	0.0789	0.0003
0.100	0.0978	0.0001
0.200	0.1995	0.0004
0.300	0.2992	0.0003

SLOPE = 0.997947
 R² = 0.999934

BMB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100384

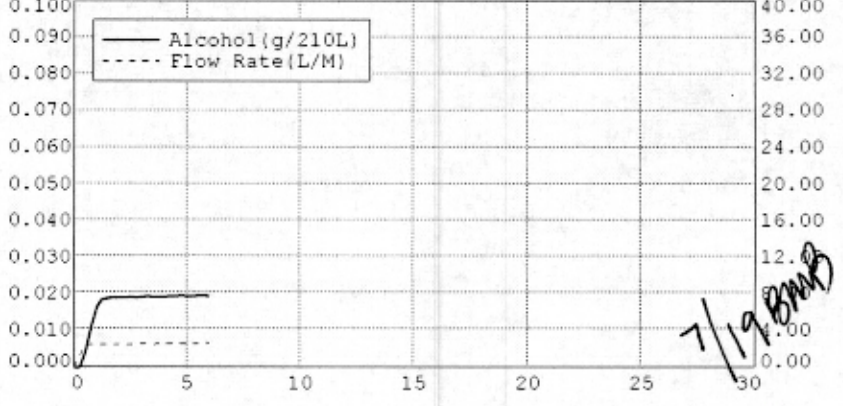
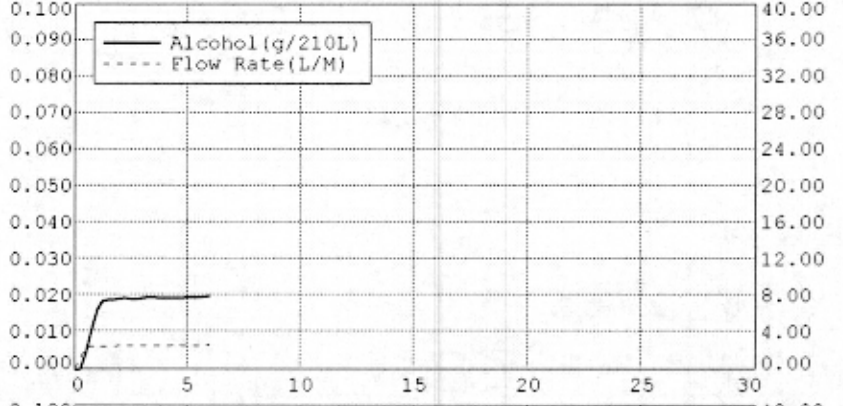
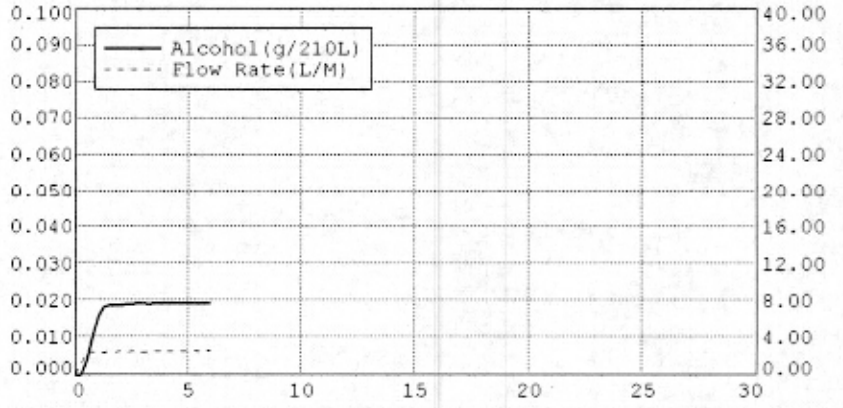
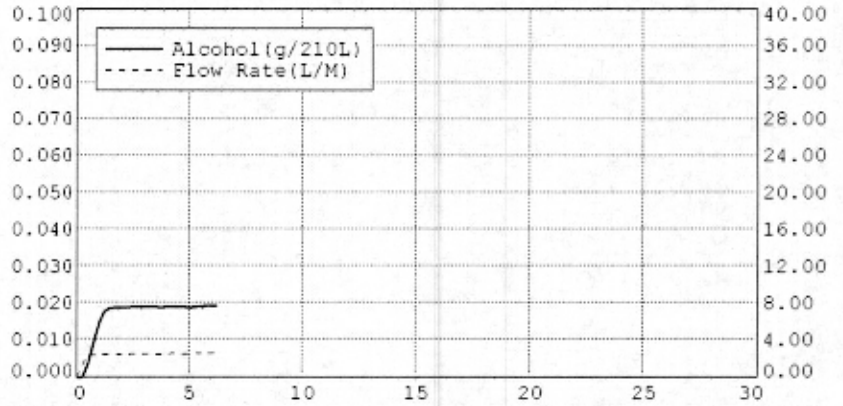
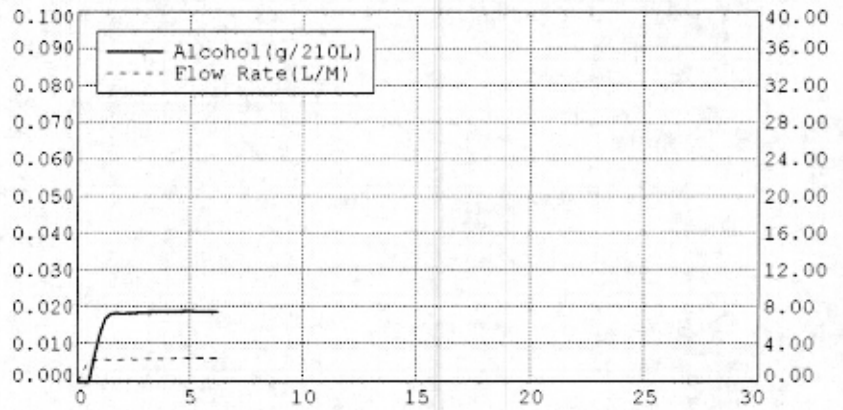
Date: 08/15/2012
 Time: 13:43:40

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:44
INTERNAL STANDARD	VERIFIED	13:45
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
EXTERNAL STANDARD	0.020	13:49
BLANK TEST	0.000	13:50

Average = 0.0203
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100384

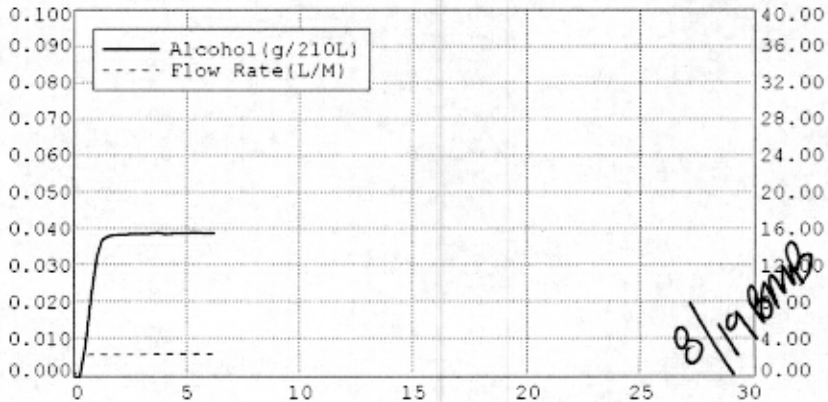
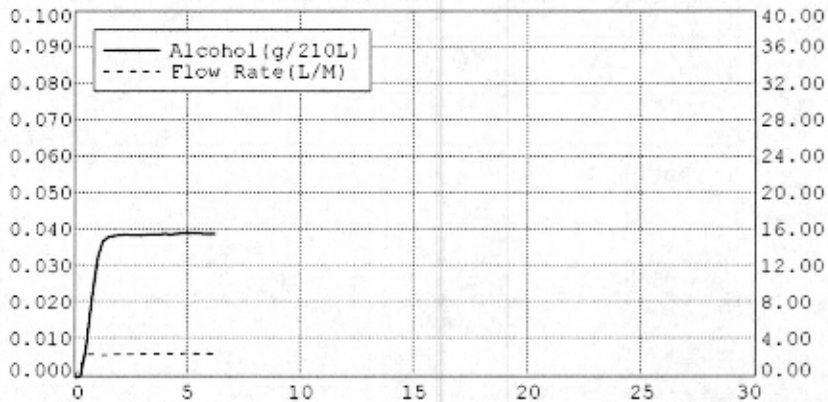
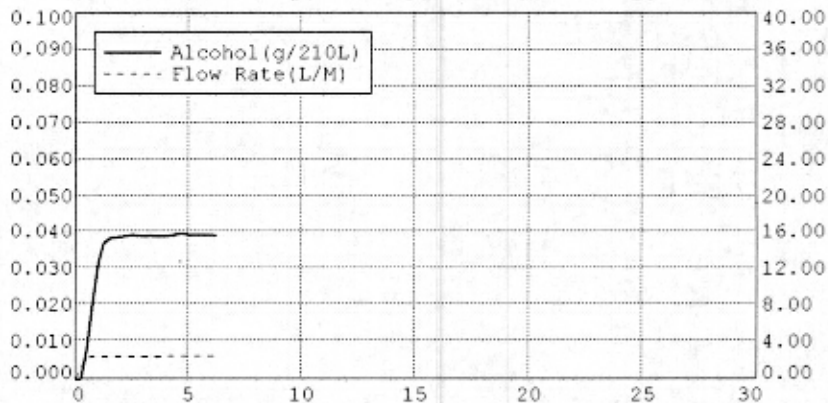
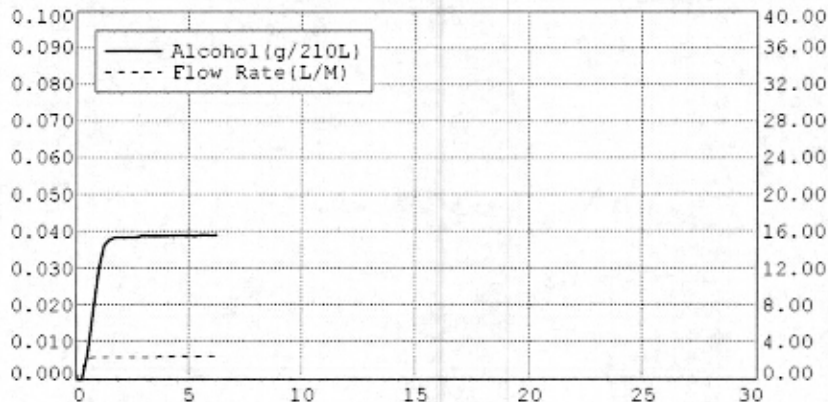
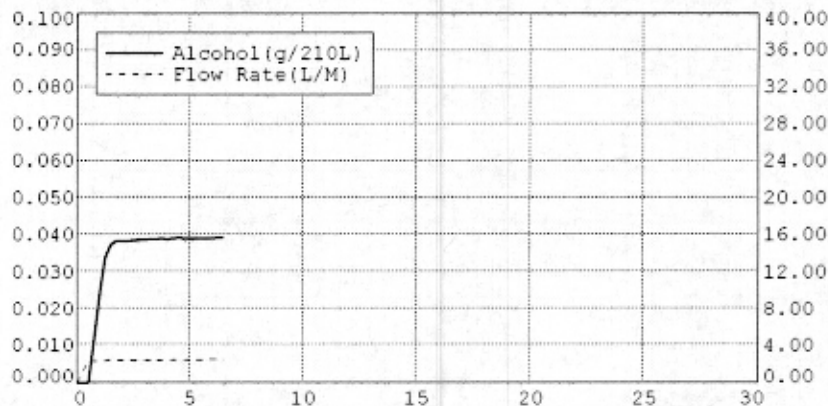
Date: 08/15/2012
 Time: 14:03:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.96: 0.040
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:05
INTERNAL STANDARD	VERIFIED	14:05
EXTERNAL STANDARD	0.040	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.040	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.040	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.039	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.039	14:10
BLANK TEST	0.000	14:10

Average = 0.0399
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

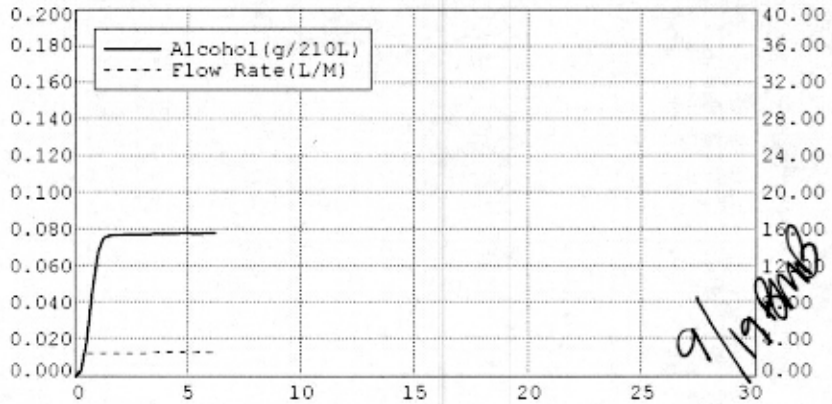
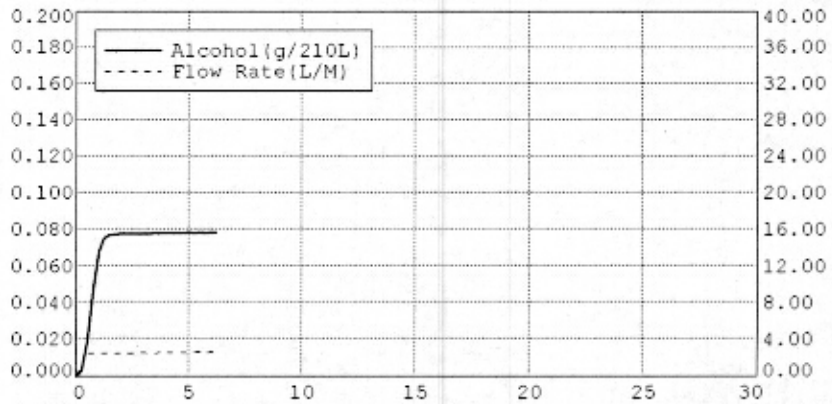
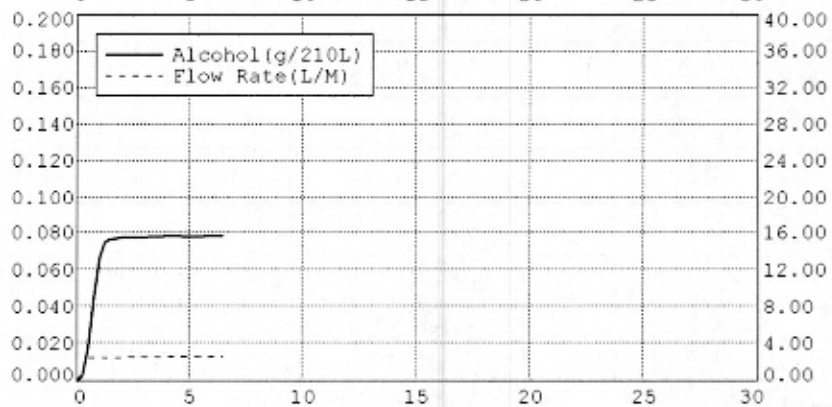
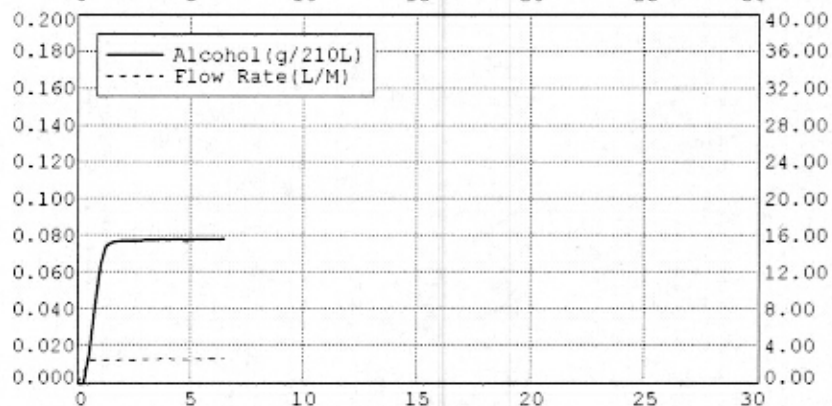
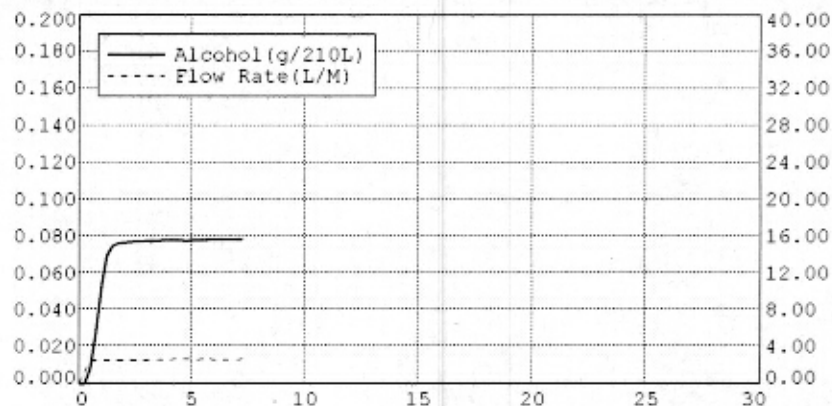
Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 08/15/2012
Time: 14:14:20

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

BLANK TEST	0.000	14:15
INTERNAL STANDARD	VERIFIED	14:16
EXTERNAL STANDARD	0.079	14:16
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.078	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.079	14:18
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.078	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.078	14:20
BLANK TEST	0.000	14:21

Average = 0.0789
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

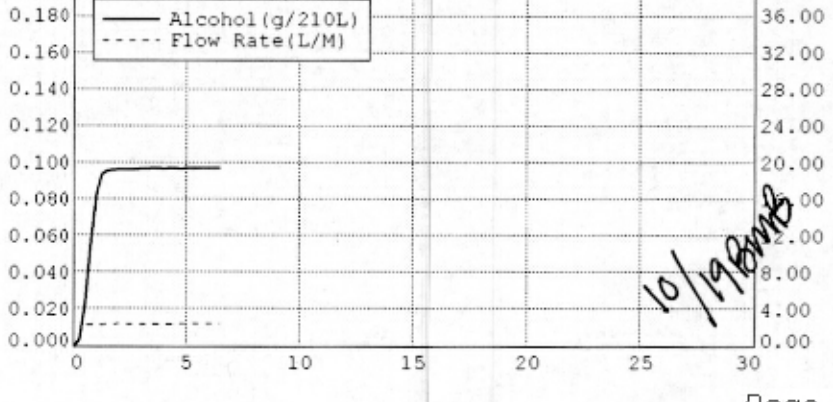
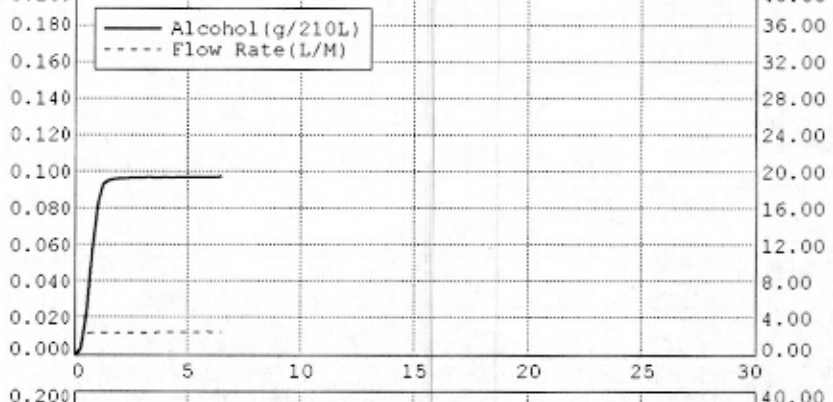
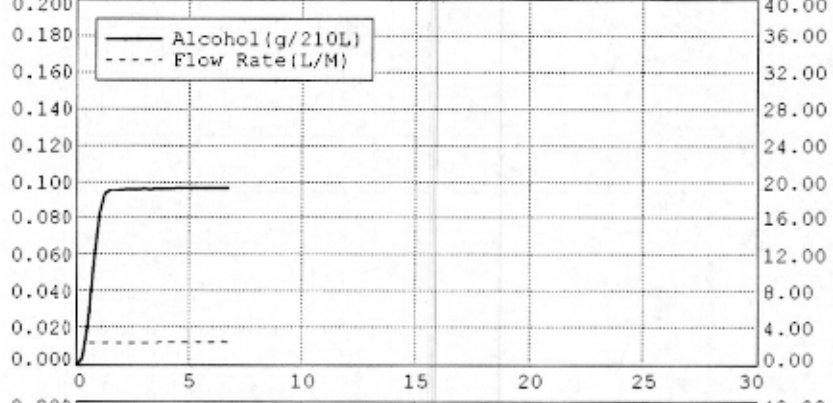
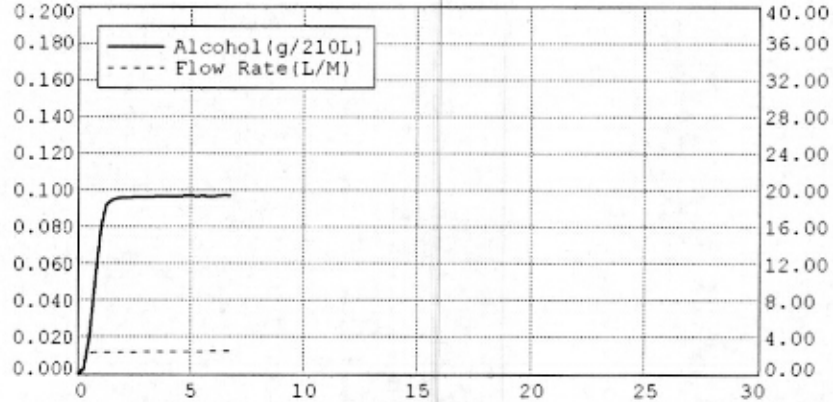
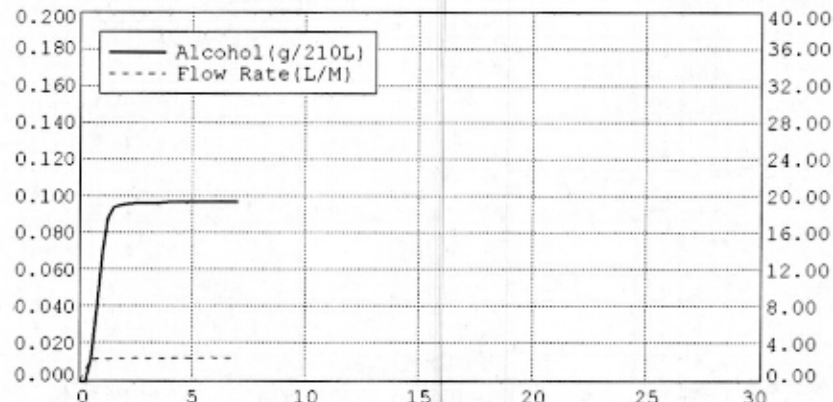
Alaska Department of Public Safety
 DATAMASTER dmt: 100384

Date: 08/15/2012
 Time: 14:29:05

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

BLANK TEST	0.000	14:30
INTERNAL STANDARD	VERIFIED	14:30
EXTERNAL STANDARD	0.097	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.097	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.097	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.097	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.097	14:35
BLANK TEST	0.000	14:35

Average = 0.0978
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

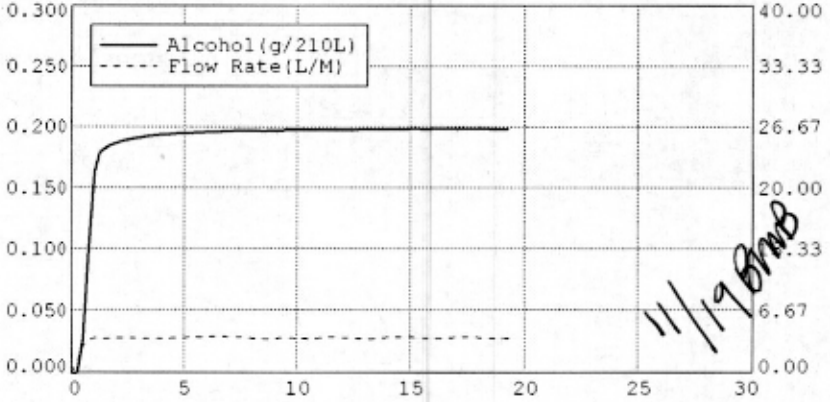
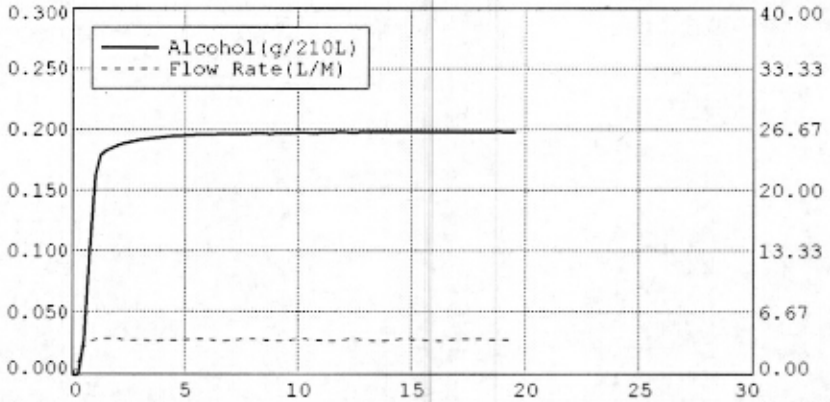
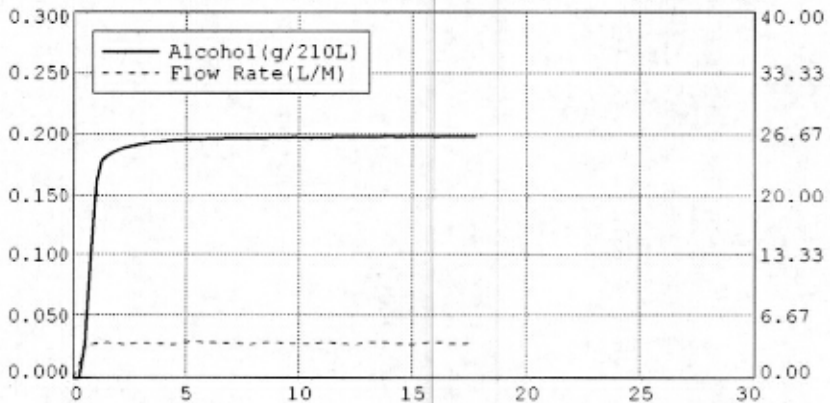
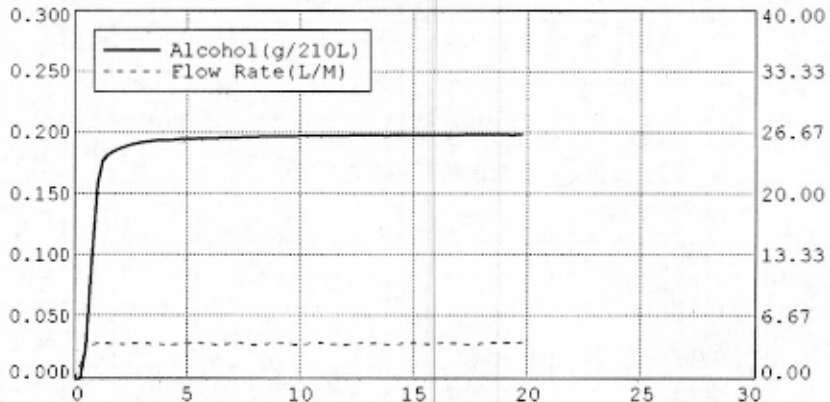
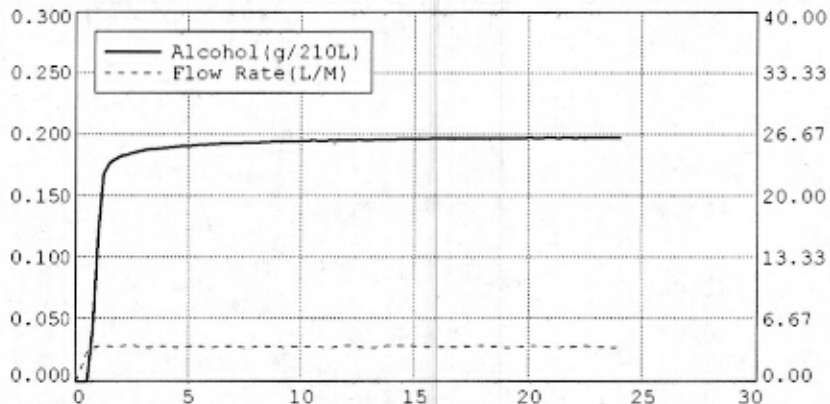
Alaska Department of Public Safety
 DATAMASTER dmt: 100384

Date: 08/15/2012
 Time: 14:44:01

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

BLANK TEST	0.000	14:45
INTERNAL STANDARD	VERIFIED	14:45
EXTERNAL STANDARD	0.198	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.199	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.199	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.199	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.199	14:51
BLANK TEST	0.000	14:52

Average = 0.1995
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

 Alaska Department of Public Safety
 DATAMASTER dmt: 100384

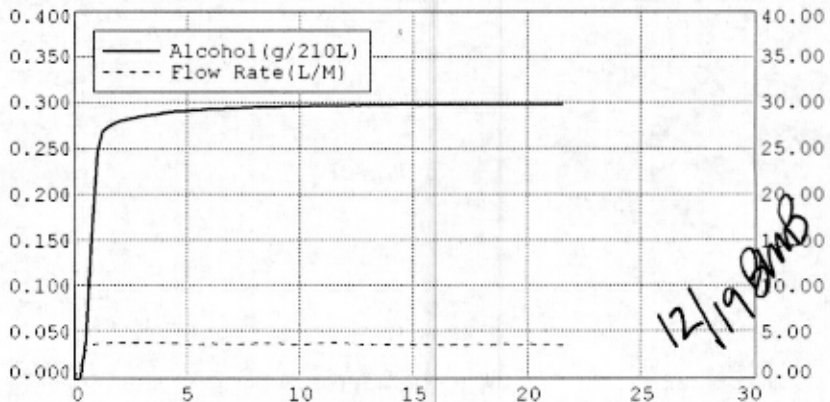
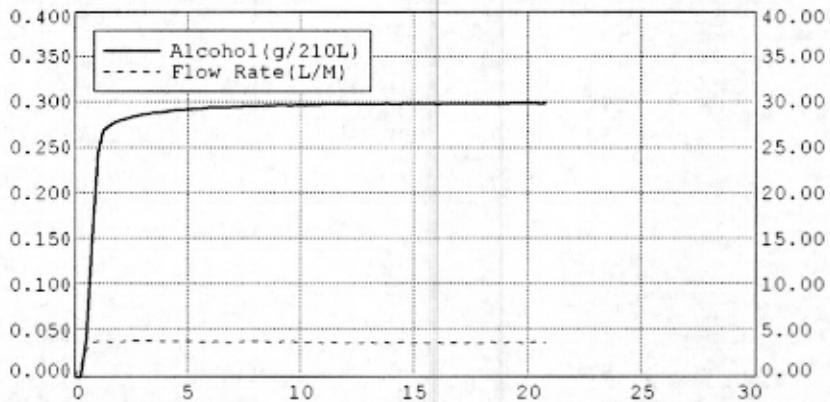
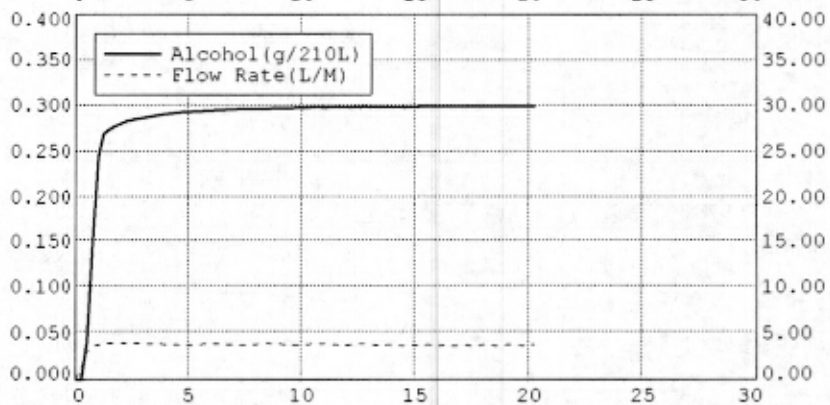
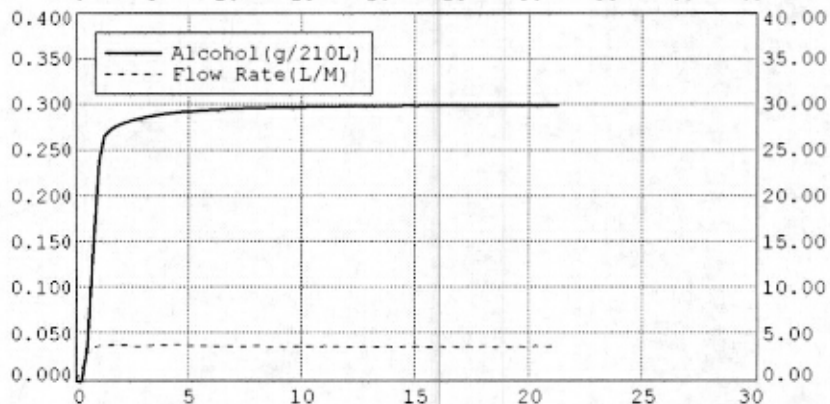
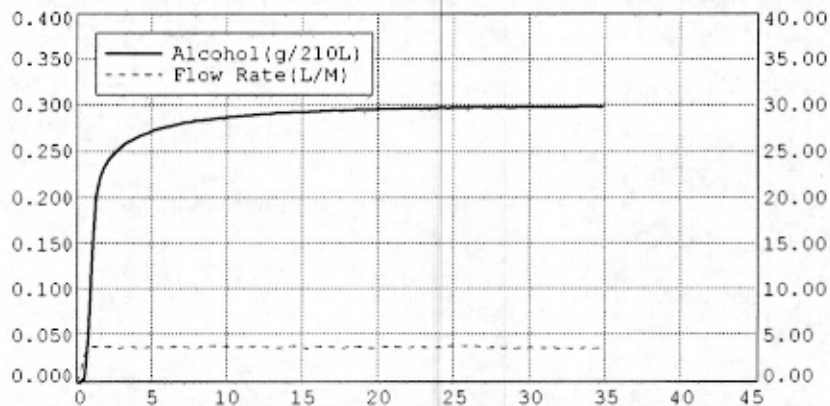
Date: 08/15/2012
 Time: 15:04:20

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:05
INTERNAL STANDARD	VERIFIED	15:05
EXTERNAL STANDARD	0.299	15:06
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.299	15:07
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.299	15:09
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.299	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.298	15:11
BLANK TEST	0.000	15:12

Average = 0.2992
 Std Dev = 0.0003



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 08/15/2012
Time: 15:19:52

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

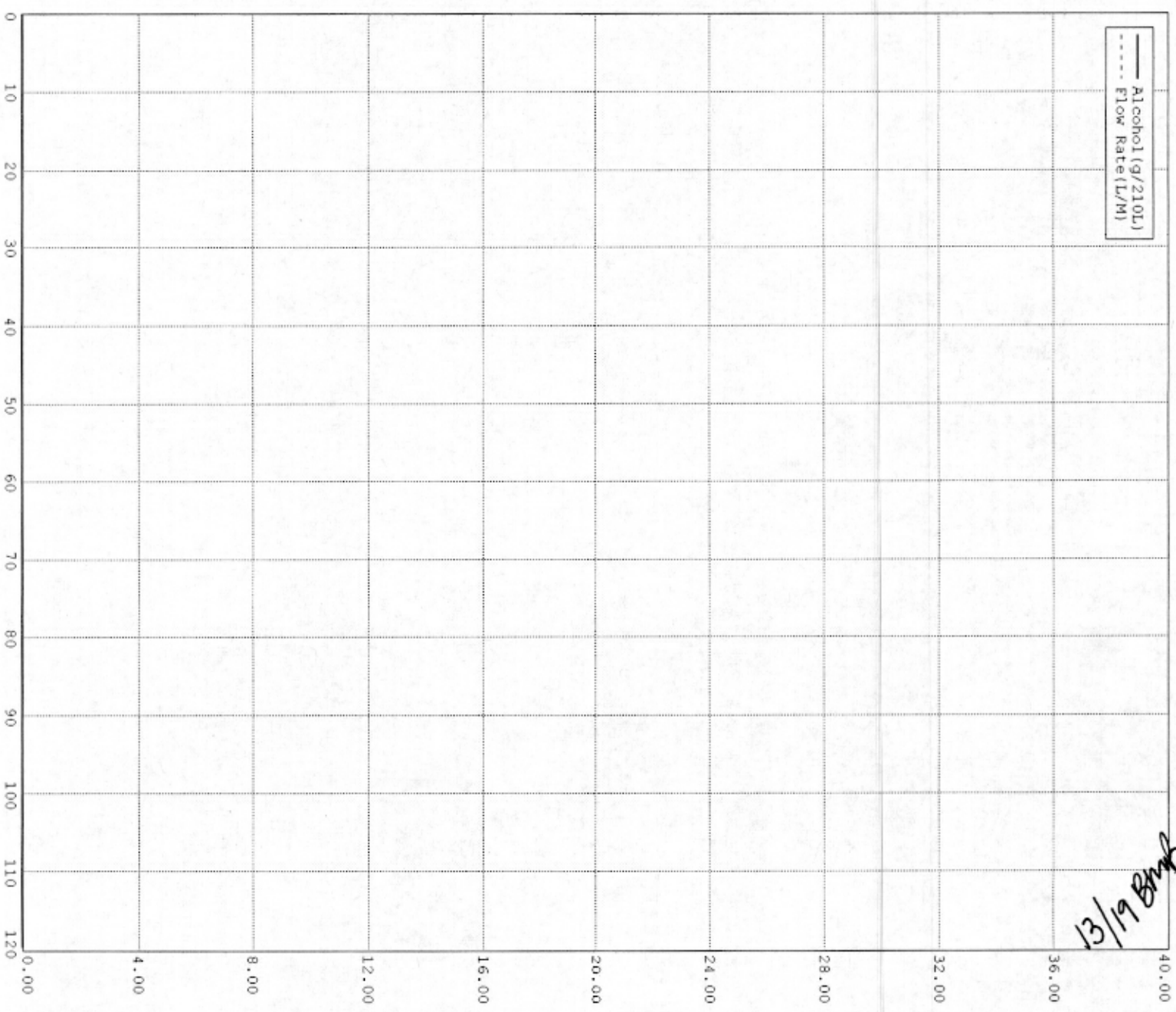
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:21
BLANK TEST	0.000	15:21
INTERNAL STANDARD	VERIFIED	15:22
EXTERNAL STANDARD	0.079	15:22
BLANK TEST	0.000	15:23
SUBJECT SAMPLE	INCOMPLETE	15:25

Brandl



13/19 Brandl

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 08/15/2012
Time: 15:28:27

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

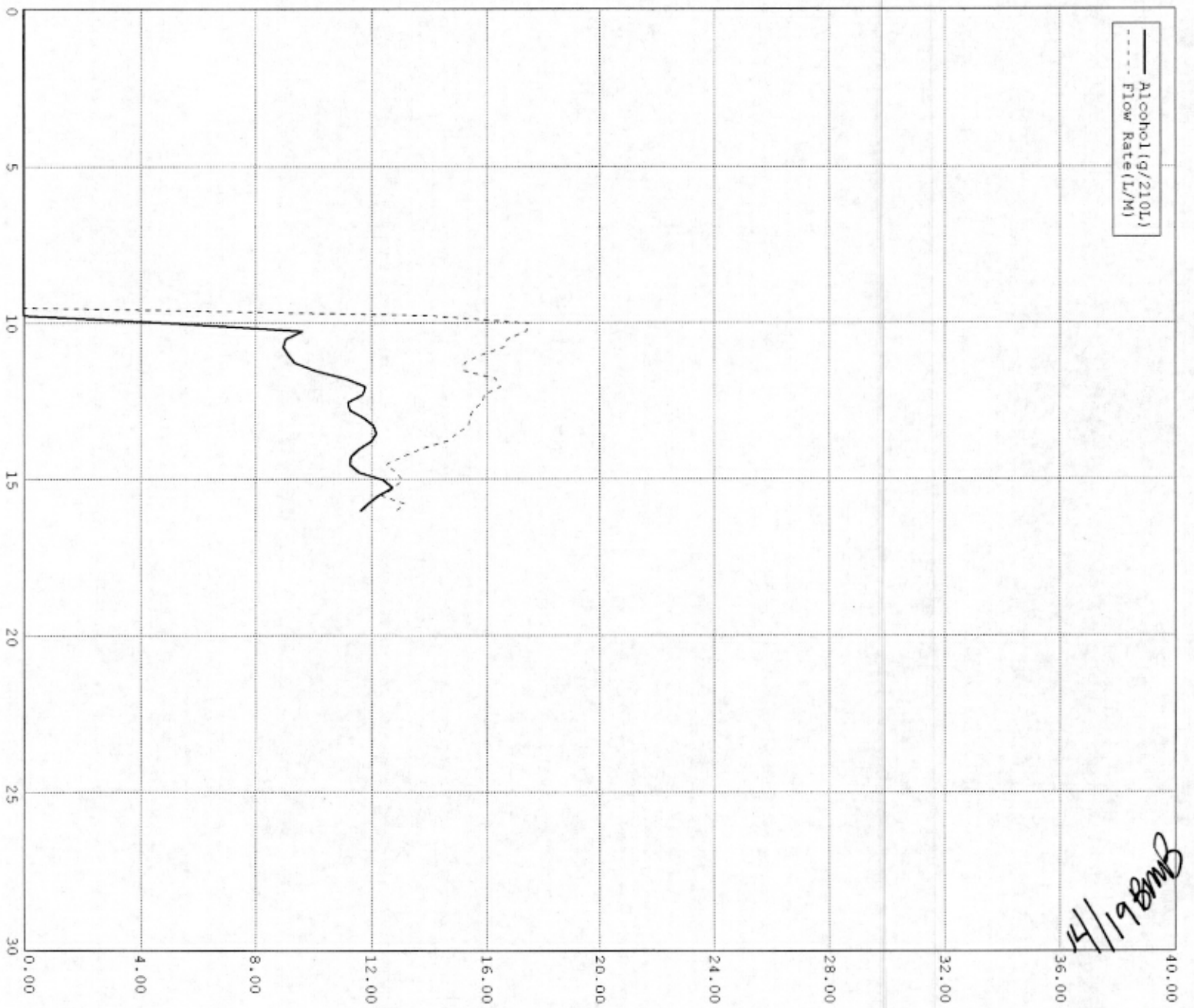
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:29
BLANK TEST	0.000	15:29
INTERNAL STANDARD	VERIFIED	15:30
EXTERNAL STANDARD	0.081	15:30
BLANK TEST	0.000	15:31
SUBJECT SAMPLE	INVALID	15:31

BBMB



BBMB 8/15/12

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100384

Date: 08/16/2012
Time: 10:13:57

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

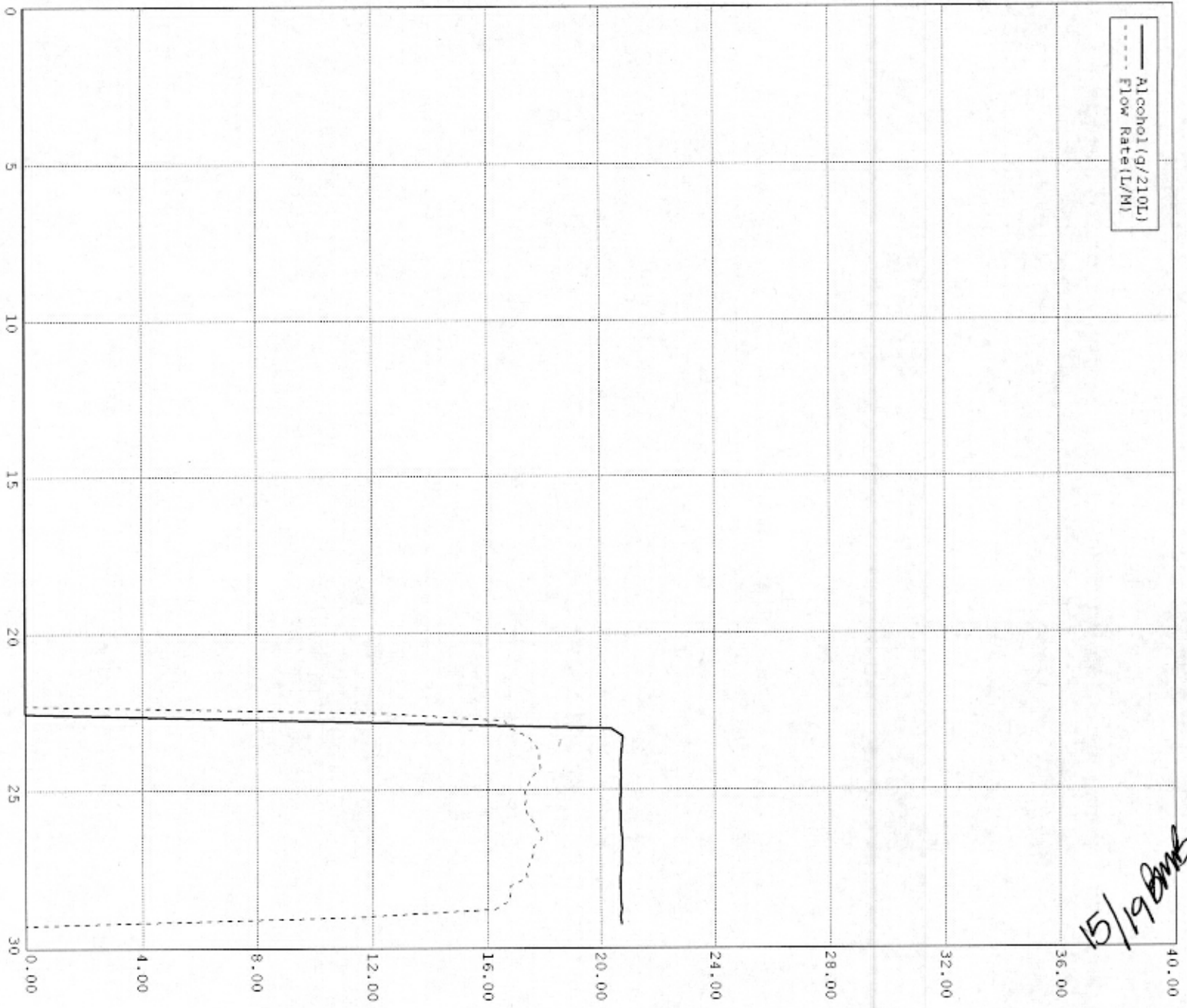
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.91: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:15
BLANK TEST	0.000	10:15
INTERNAL STANDARD	VERIFIED	10:15
Xq = 0.084 (1.47%)		
EXTERNAL STANDARD	0.079	10:15
X[1] = 0.0792 (0.0008)	(0.0020)	
BLANK TEST	0.000	10:16
SUBJECT SAMPLE	INTERFERENCE	10:17
X[1] = 0.1039 (-0.0131)	(0.0013)	

BBMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

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

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

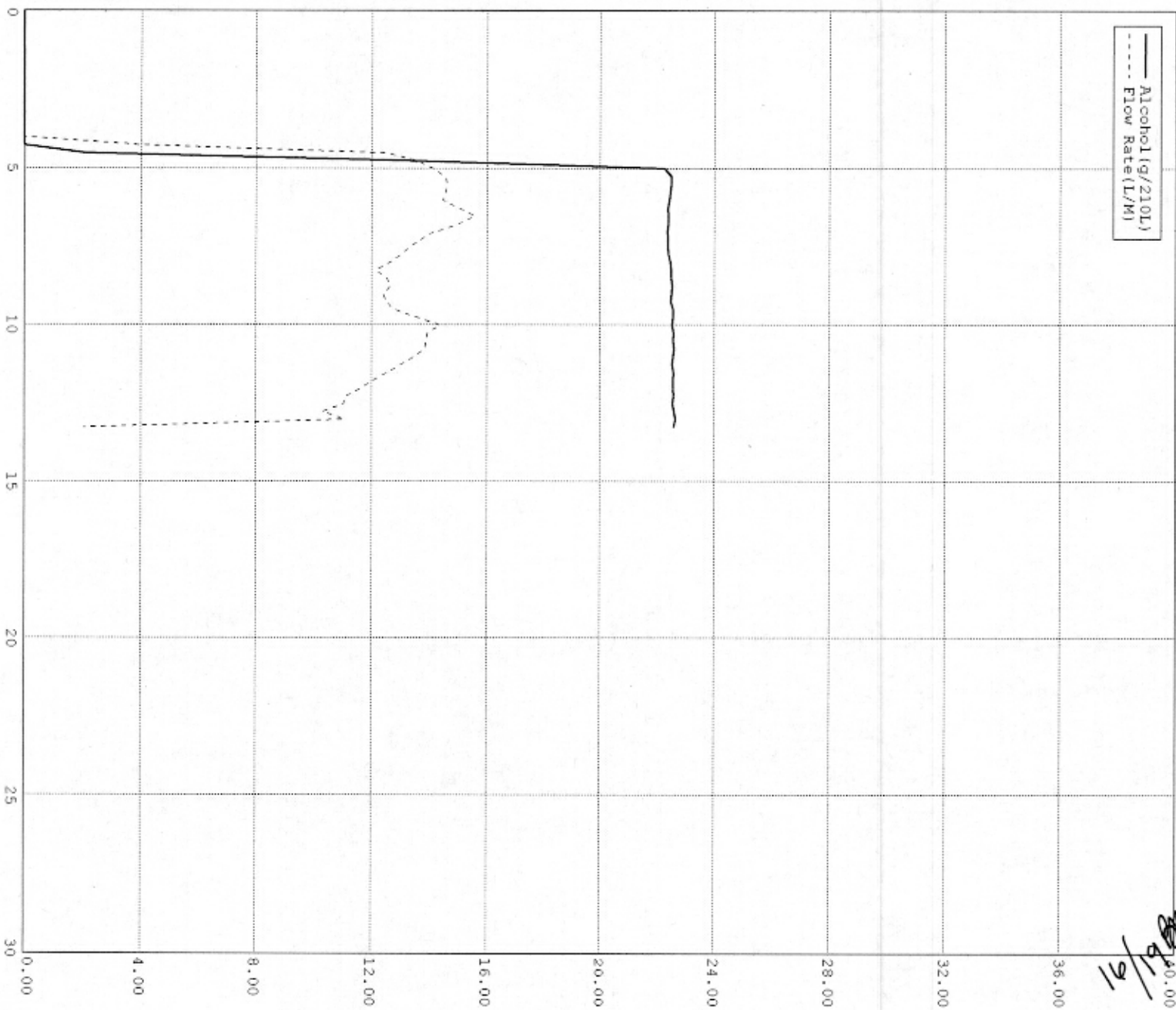
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.91: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:05
BLANK TEST	0.000	10:05
INTERNAL STANDARD	VERIFIED	10:05
XQ = 0.084 (1.37%)		
EXTERNAL STANDARD	0.079	10:05
X[1] = 0.0794 (-0.0004) (0.0022)		
BLANK TEST	0.000	10:06
SUBJECT SAMPLE	INTERFERENCE	10:07
X[1] = 0.1139 (-0.0270) (0.0004)		

BBMB



BBMB
8/16/12

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100384

Date: 08/16/2012
 Time: 09:54:43

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

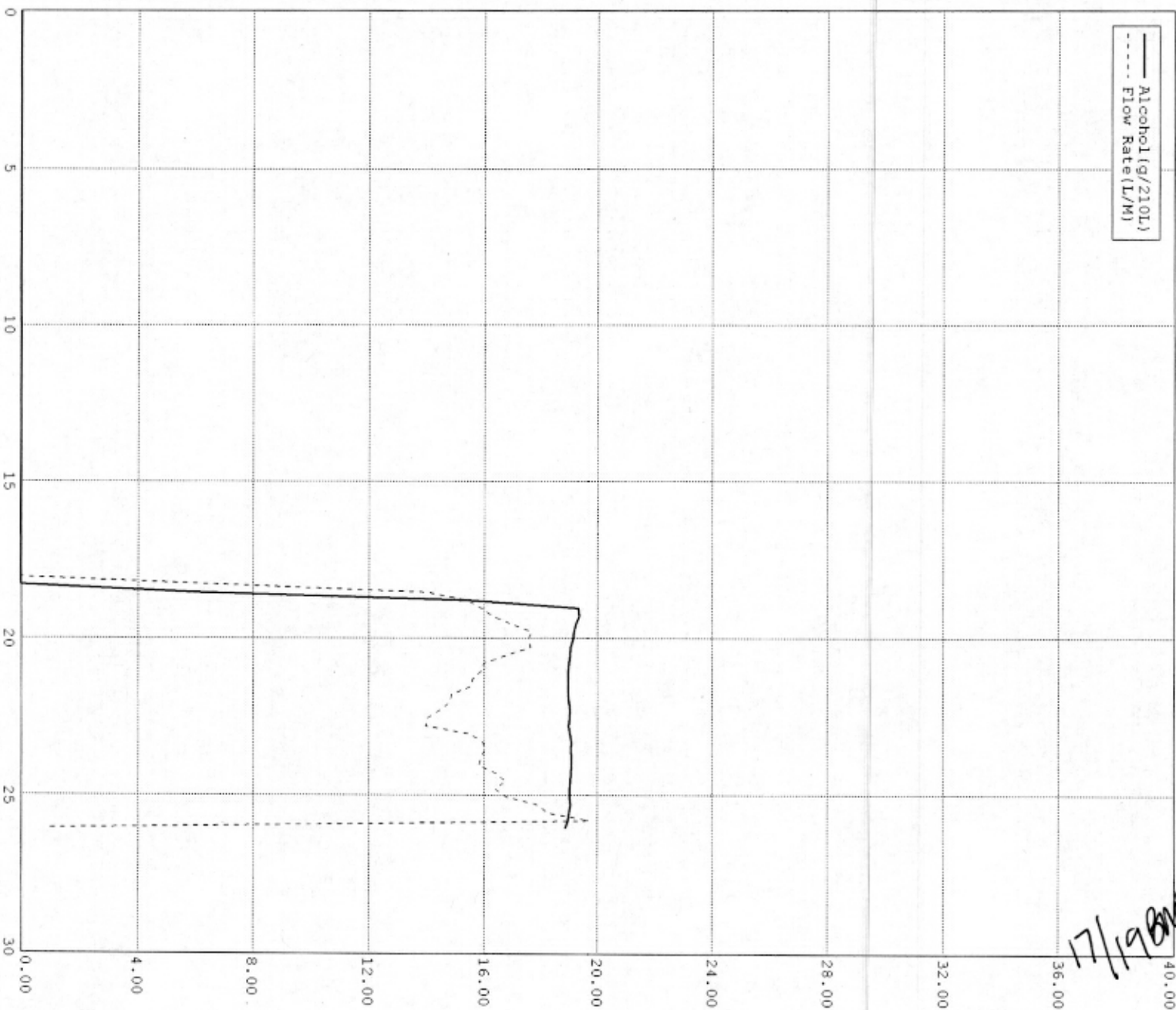
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.91: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:55
BLANK TEST	0.000	09:55
INTERNAL STANDARD	VERIFIED	09:56
Xq = 0.084 (1.268)		
EXTERNAL STANDARD	0.079	09:56
X[1] = 0.0791 (0.0006)	(0.0016)	
BLANK TEST	0.000	09:57
SUBJECT SAMPLE (Vol=2.05L)	0.094	09:57
X[1] = 0.0947 (-0.0003)	(-0.0001)	
BLANK TEST	0.000	09:58
EXTERNAL STANDARD	0.078	09:58
X[1] = 0.0783 (-0.0004)	(0.0008)	
BLANK TEST	0.000	09:59

BMB



17/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 08/15/2012
Time: 15:33:49

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

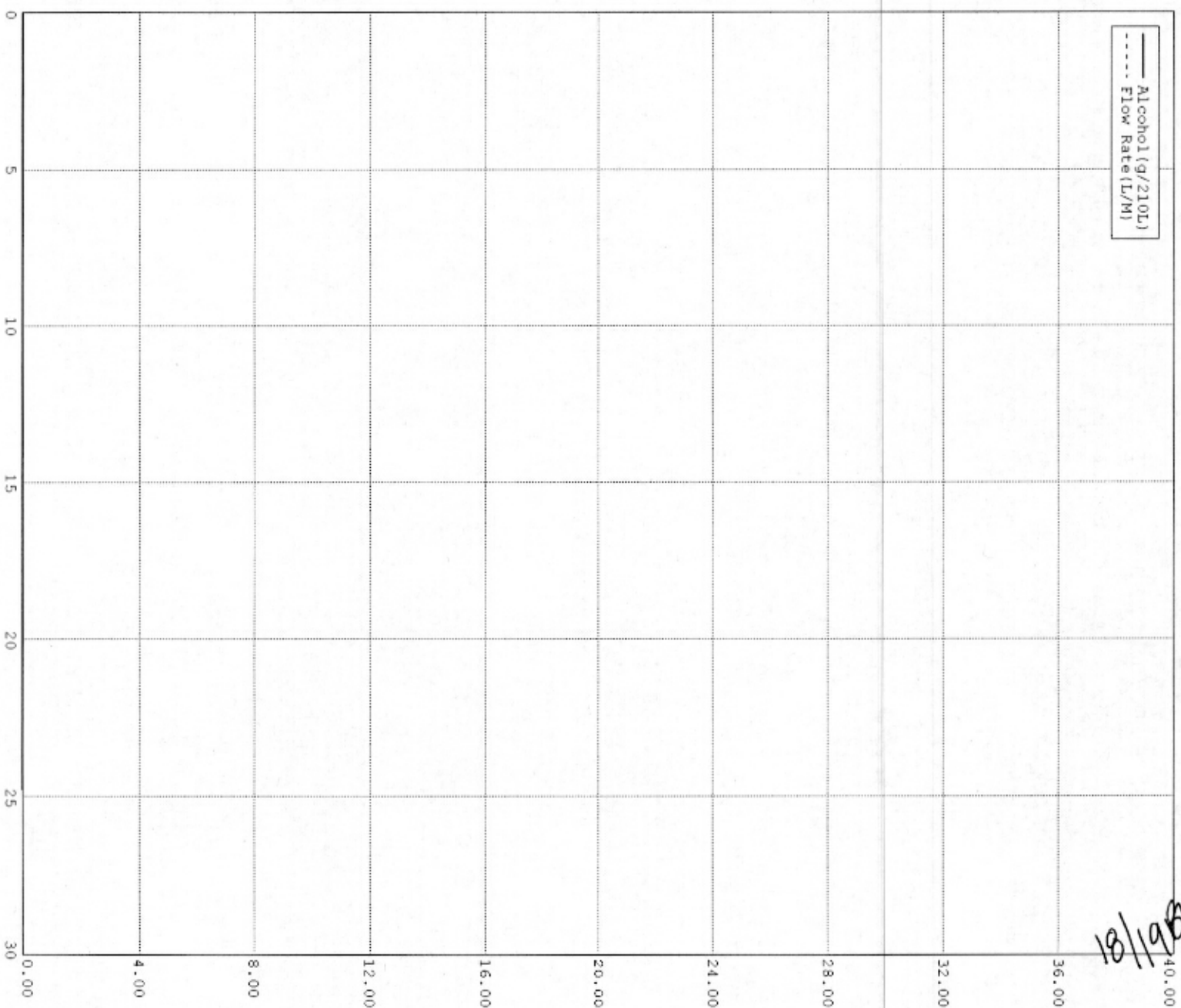
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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	PASSED	15:35
BLANK TEST	0.000	15:35
INTERNAL STANDARD	VERIFIED	15:35
EXTERNAL STANDARD	0.079	15:35
BLANK TEST	0.000	15:36

RPI DETECTED



18/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 08/16/2012
Time: 14:00:29

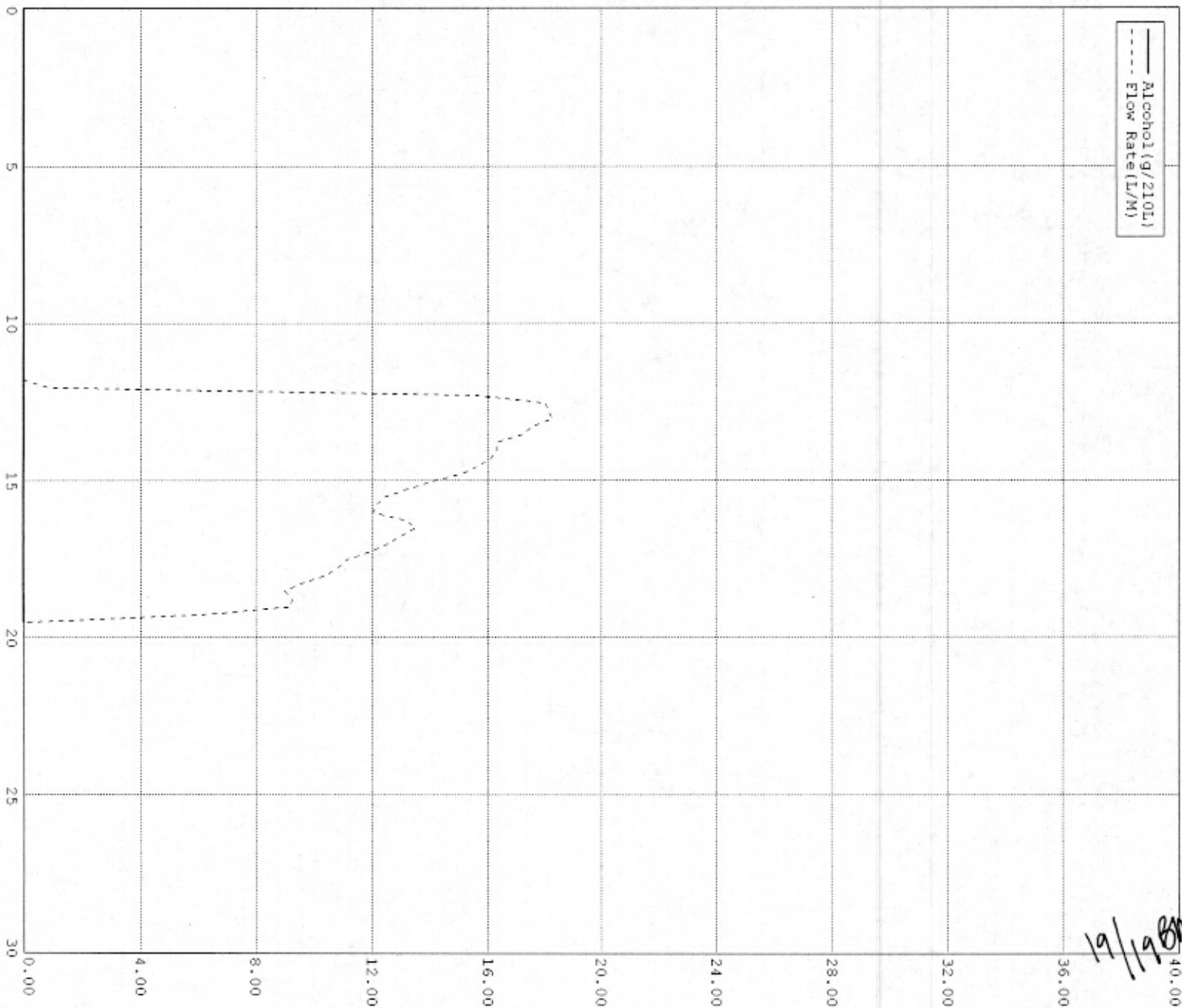
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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	14:01
BLANK TEST	0.000	14:01
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.078	14:02
BLANK TEST	0.000	14:03
SUBJECT SAMPLE	0.000	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.079	14:04
BLANK TEST	0.000	14:05



6/16/12
BMB

Final page for report

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7/3/2014