

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 01/27/2012
Effective: 01/27/2012

Version: DMCEF2012 R0
Status: Active

Instrument S/N 100356Analyst Brandi BarnettStart Date 3/7/12

Updated to 2.00, ran USB Fxer, verified rear venting. BMB
Diagnostic Test (attached) ☒ 3/7/12

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 1600 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 03/01/2013ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 03/01/2013iv. 0.100g/210L Mnf ILMO Lot 0561100A2 Exp 03/01/2013v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/20131. Simulator S/N SD1176 Date Calibrated 8/17/2011vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/20131. Simulator S/N SD1202 Date Calibrated 8/17/2011

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/20131. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 10/17/20121. Simulator S/N DR6267 Date Calibrated 01/10/2012d. 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 3/8/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100356

Date: 03/07/2012
Time: 11:23:44

VERSIONS

DMT: 2.00
PIC: 3.03
Modem: 2.3
Questions: 2.2

TEMPERATURES

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

PUMP INFO

Flow Rate = 5.338 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

2/18 BMB

Technician Screen

DATAMASTER dmt: 100356

Date: 03/07/2012
Time: 11:32 AM

Temperatures (°C)
Sample Cell: 49.1°C
Breath Tube: 47.0°C

Current Barometer 29.8 in
Volume (Ltr) 1.57

Settings
Lamp: 1.60 V
Bias: 80 V
Cooler: 1.62 V
Chopper: 523 Hz

Voltages (V)
Flow: 1.05 V
Detector: 0.073 V

3/18/12 MB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100356

Date: 12/13/2011
Time: 08:03:56

Ca	=	0.1000		
CAL	=	0.987816	0.800	<= CAL < 1.200
b1	=	0.0000	0.0000	<= b1 < 0.0040
b2	=	0.0032	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.1063	0.0500	<= Xq < 0.2000
a21	=	1.207667	1.050	<= a21 < 1.300
a31	=	0.471870	0.300	<= a31 < 0.800

4/18/13

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100356

Date: 03/07/2012
 Time: 11:34:14

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

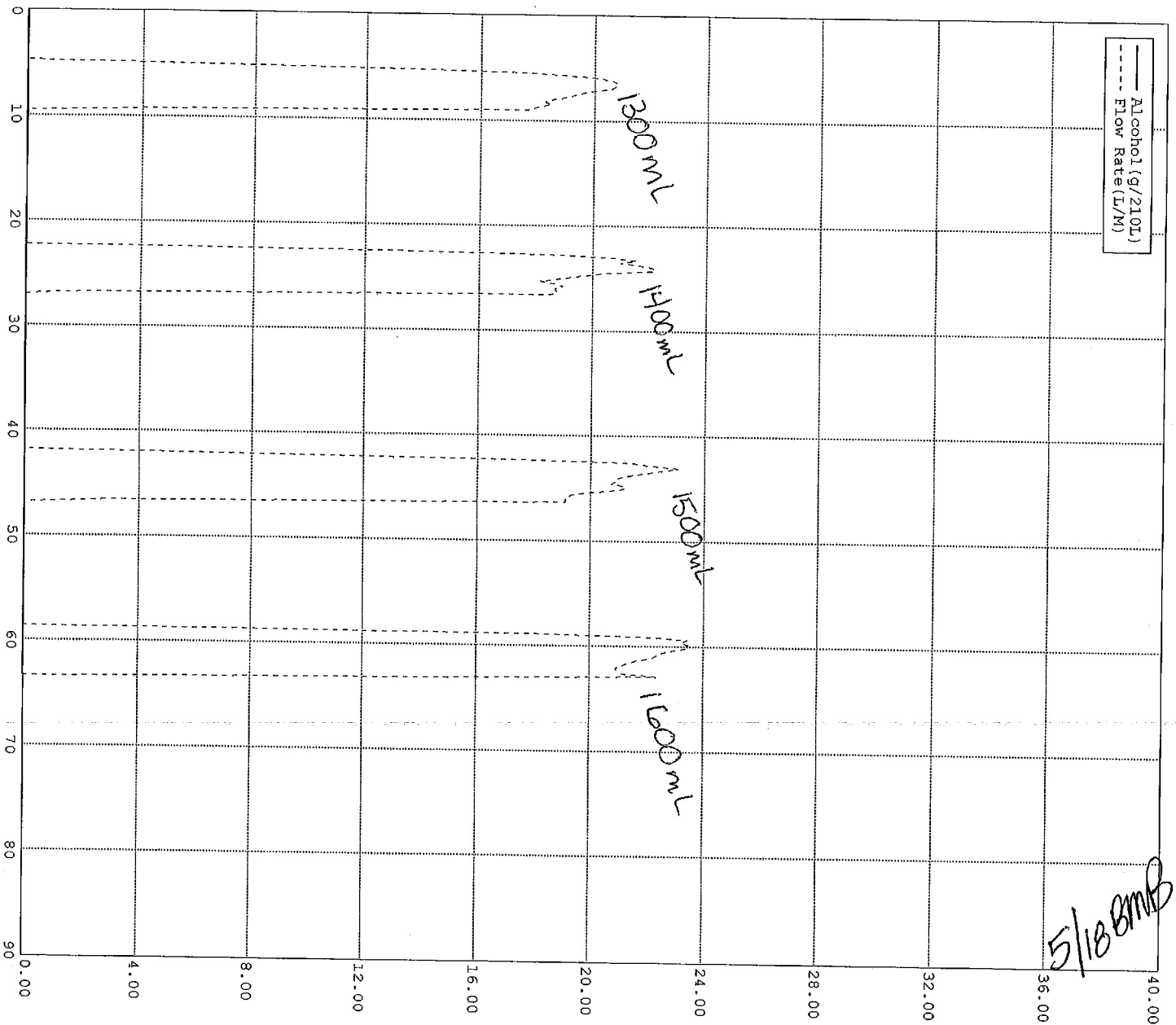
DEPT/AGENCY:
 MINIMUM VOLUME
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.81: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:38
BLANK TEST	0.000	11:38
INTERNAL STANDARD	VERIFIED	11:38
EXTERNAL STANDARD	0.081	11:39
BLANK TEST	0.000	11:40
SUBJECT SAMPLE	0.000	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.079	11:42
BLANK TEST	0.000	11:43

BBB



LINEARITY CHECK

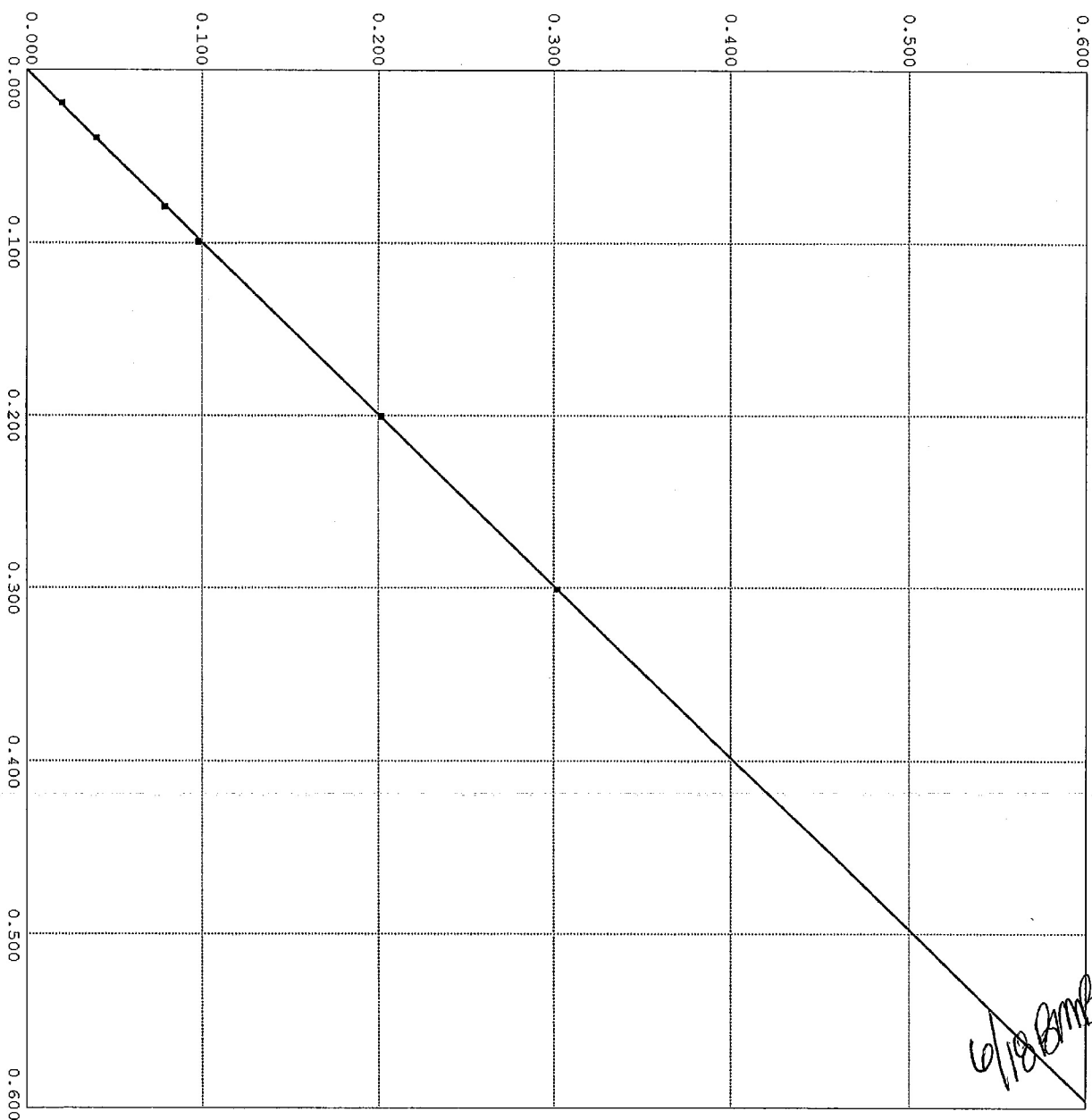
Alaska Department of Public Safety
 DATAMASTER dmt: 100356

Date: 03/07/2012
 Time: 11:49:02

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0207	0.0002
0.039	0.0403	0.0002
0.079	0.0791	0.0003
0.099	0.0984	0.0003
0.200	0.2026	0.0011
0.300	0.3026	0.0005
SLOPE	= 1.006762	
R ²	= 0.998899	

Handwritten signature



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100356

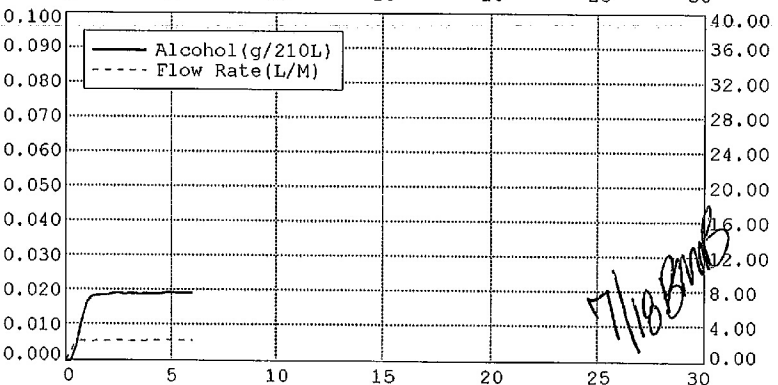
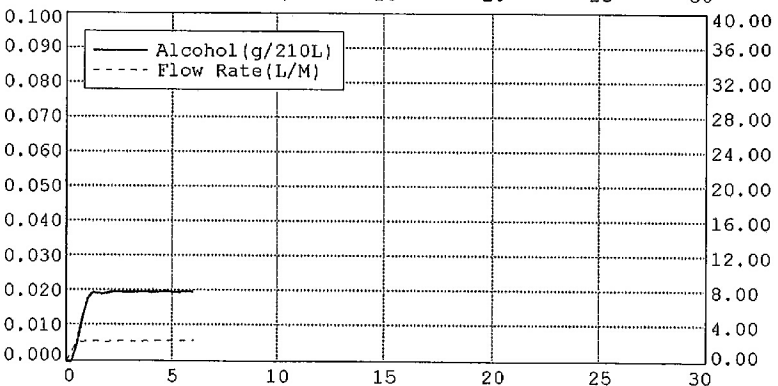
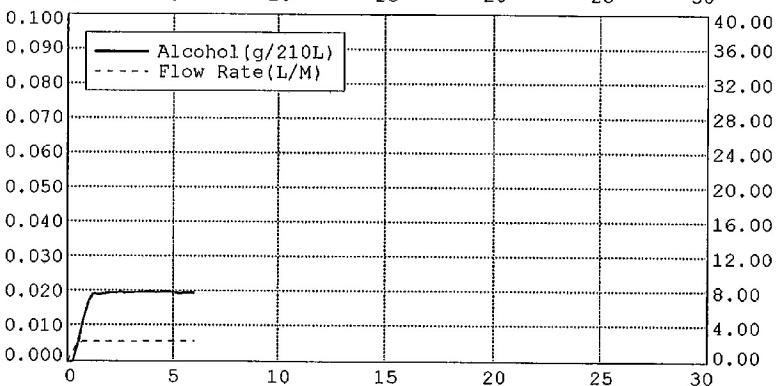
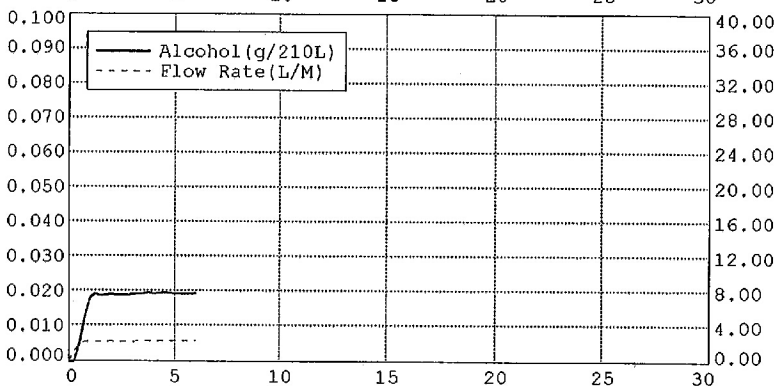
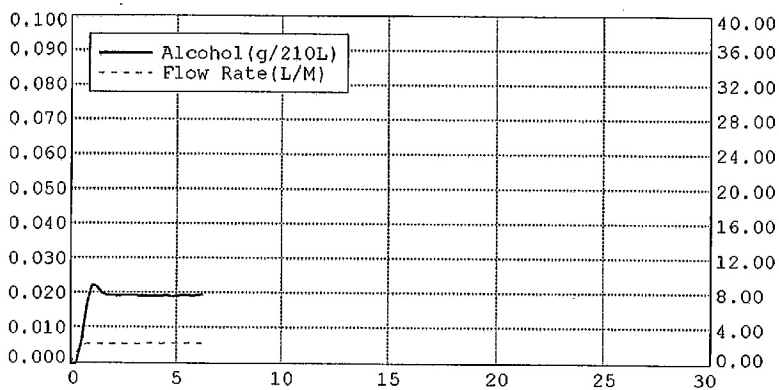
Date: 03/07/2012
Time: 11:49:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.79: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:50
INTERNAL STANDARD	VERIFIED	11:50
EXTERNAL STANDARD	0.020	11:50
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.020	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.021	11:52
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.020	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.020	11:54
BLANK TEST	0.000	11:55

Average = 0.0207
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100356

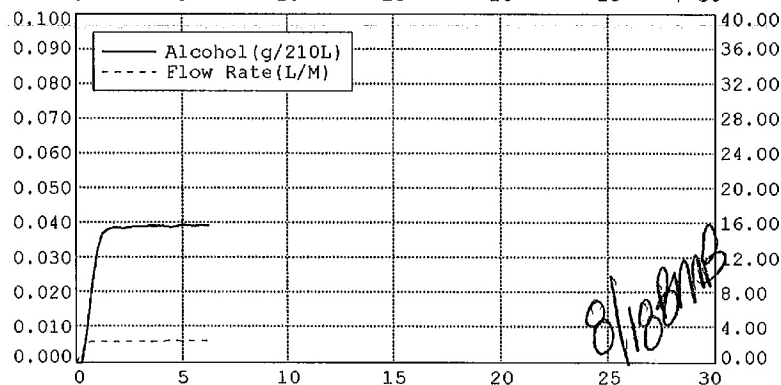
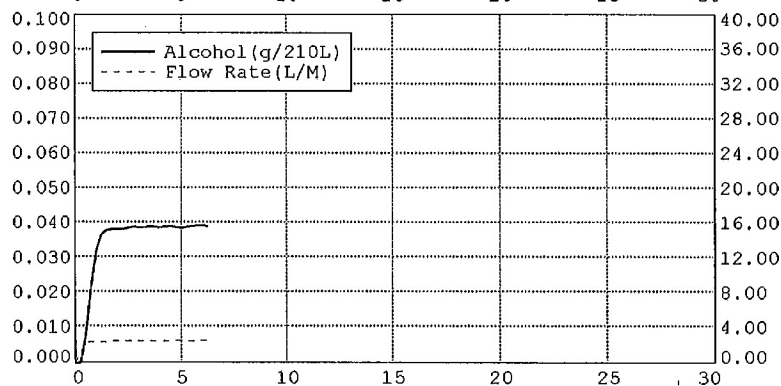
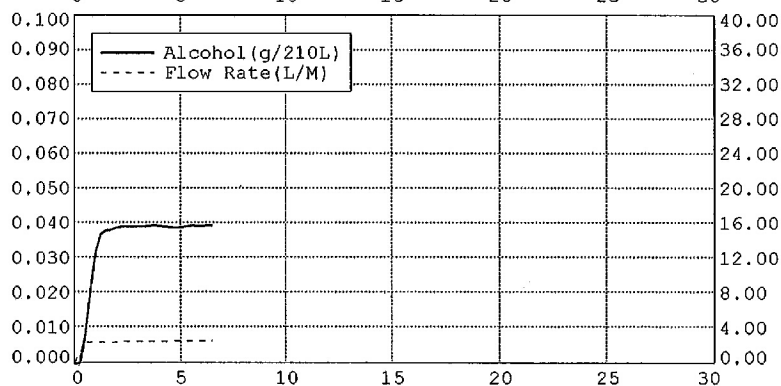
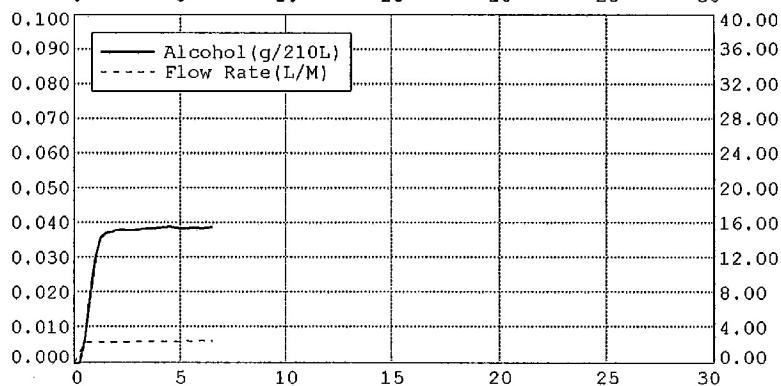
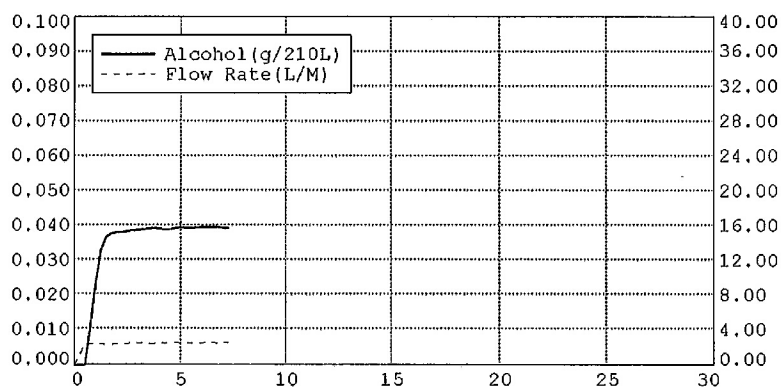
Date: 03/07/2012
Time: 14:54:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.80: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:55
INTERNAL STANDARD	VERIFIED	14:55
EXTERNAL STANDARD	0.040	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.039	14:57
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.040	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.040	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.040	15:00
BLANK TEST	0.000	15:01

Average = 0.0403
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100356

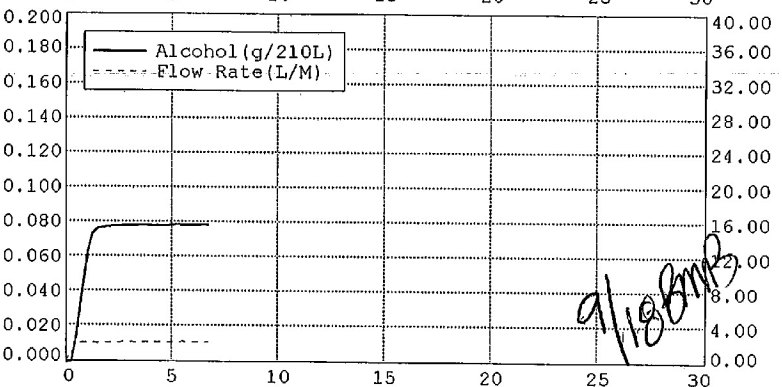
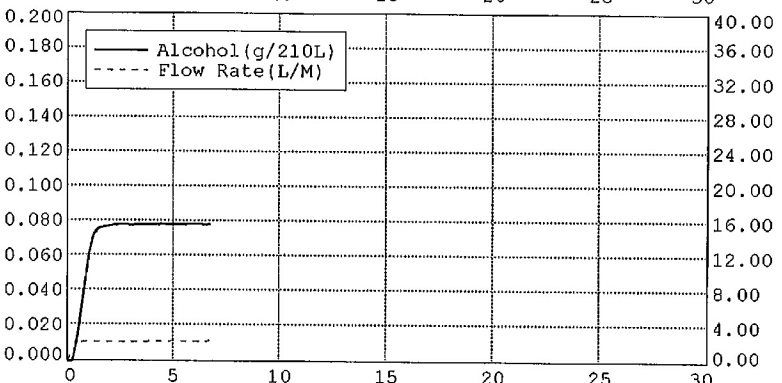
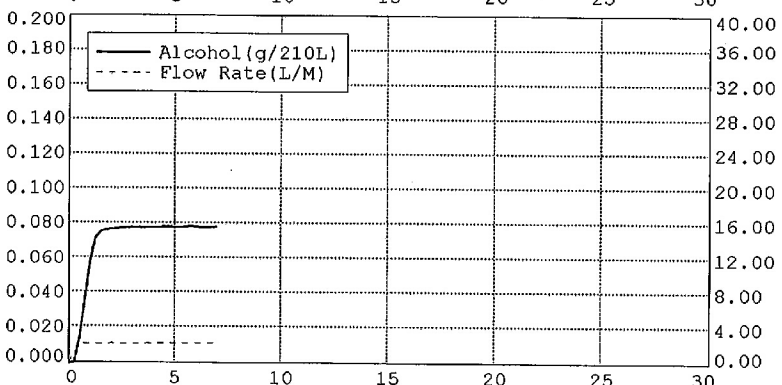
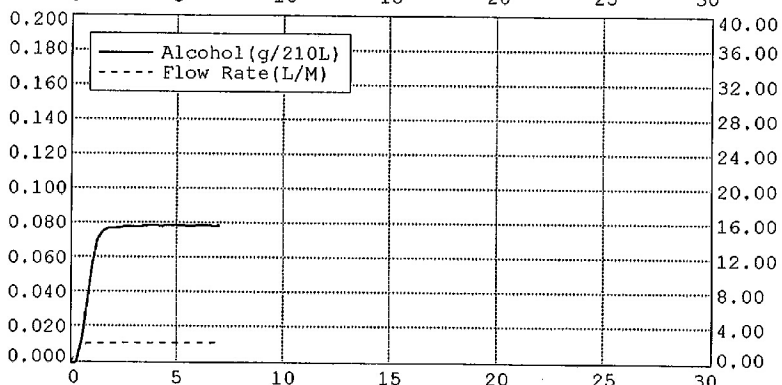
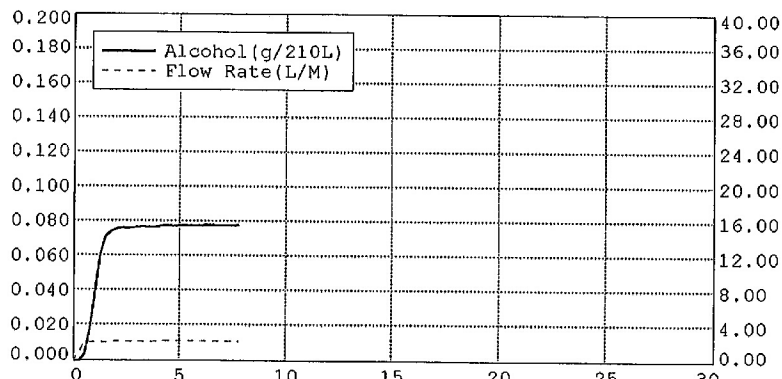
Date: 03/07/2012
Time: 15:18:47

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.79: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:19
INTERNAL STANDARD	VERIFIED	15:19
EXTERNAL STANDARD	0.078	15:20
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.079	15:21
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.079	15:22
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.079	15:23
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.079	15:24
BLANK TEST	0.000	15:25

Average = 0.0791
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100356

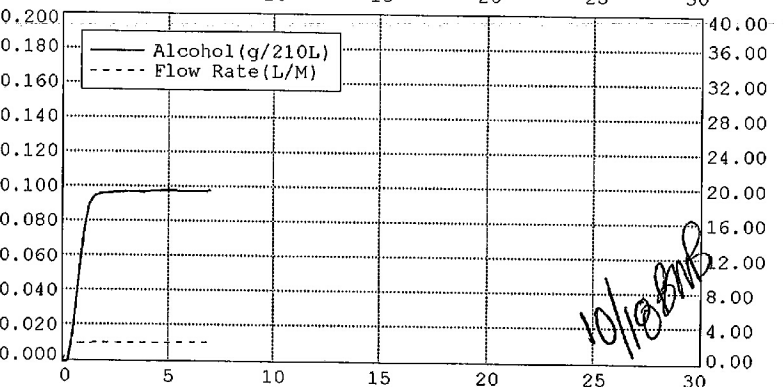
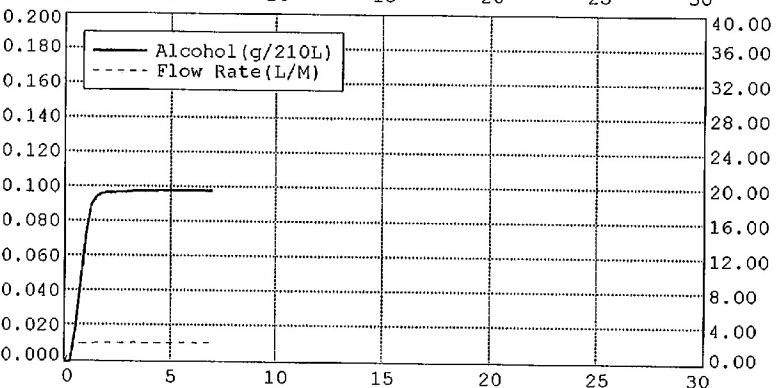
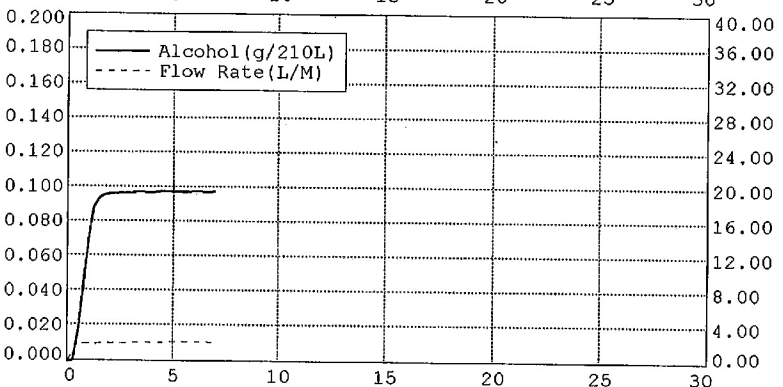
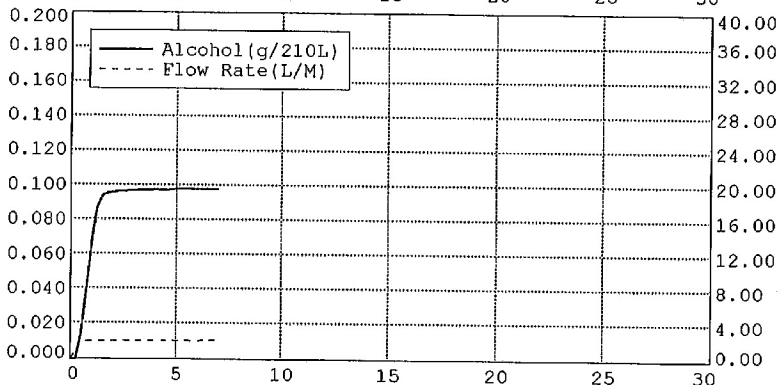
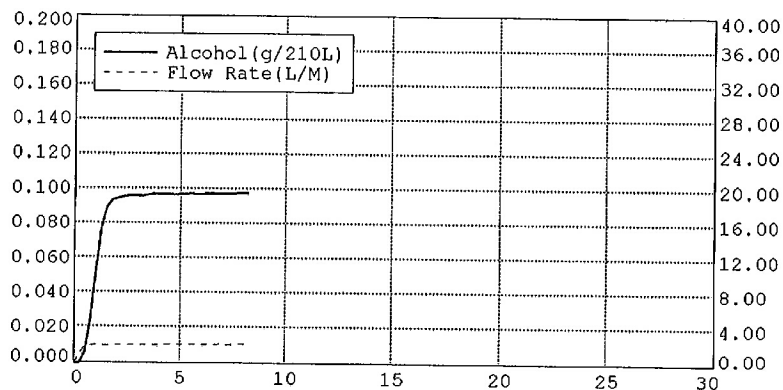
Date: 03/07/2012
Time: 15:44:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.79: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:45
INTERNAL STANDARD	VERIFIED	15:45
EXTERNAL STANDARD	0.098	15:46
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.098	15:47
BLANK TEST	0.000	15:48
EXTERNAL STANDARD	0.098	15:48
BLANK TEST	0.000	15:49
EXTERNAL STANDARD	0.098	15:49
BLANK TEST	0.000	15:50
EXTERNAL STANDARD	0.098	15:50
BLANK TEST	0.000	15:51

Average = 0.0984
Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100356

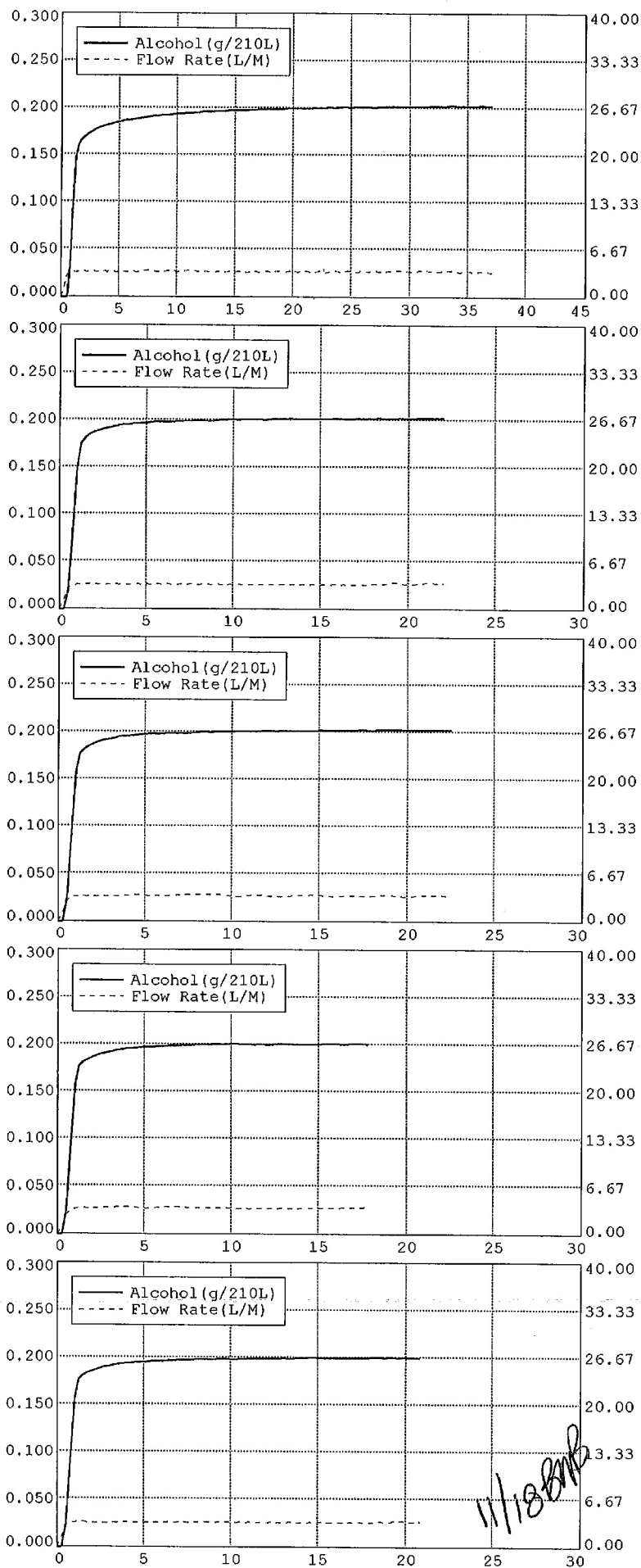
Date: 03/07/2012
Time: 15:58:19

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:59
INTERNAL STANDARD	VERIFIED	16:00
EXTERNAL STANDARD	0.203	16:00
BLANK TEST	0.000	16:01
EXTERNAL STANDARD	0.203	16:02
BLANK TEST	0.000	16:03
EXTERNAL STANDARD	0.203	16:03
BLANK TEST	0.000	16:04
EXTERNAL STANDARD	0.201	16:04
BLANK TEST	0.000	16:05
EXTERNAL STANDARD	0.201	16:06
BLANK TEST	0.000	16:07

Average = 0.2026
Std Dev = 0.0011



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100356

Date: 03/07/2012
Time: 16:09:08

EXTERNAL STANDARD INFORMATION

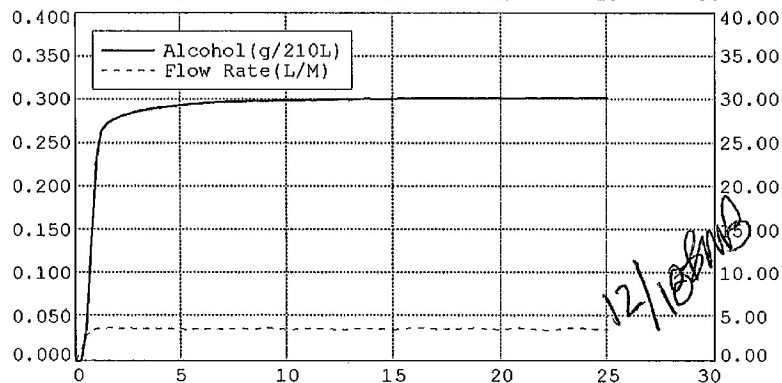
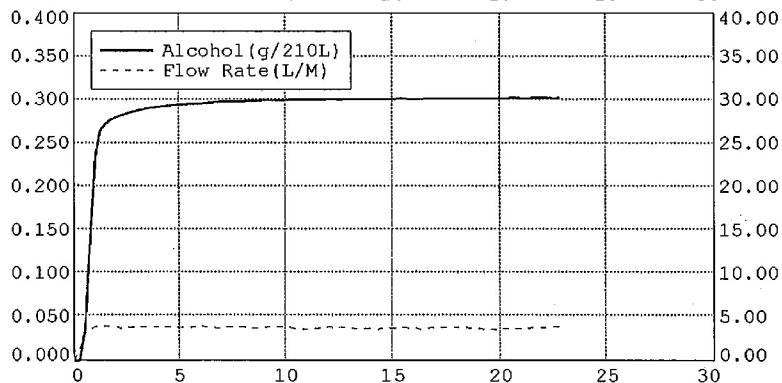
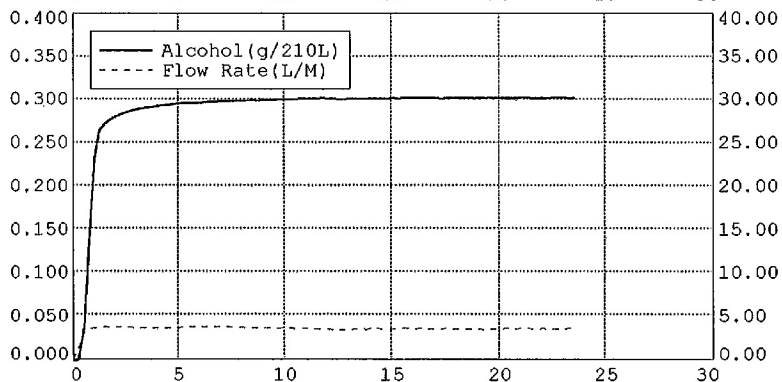
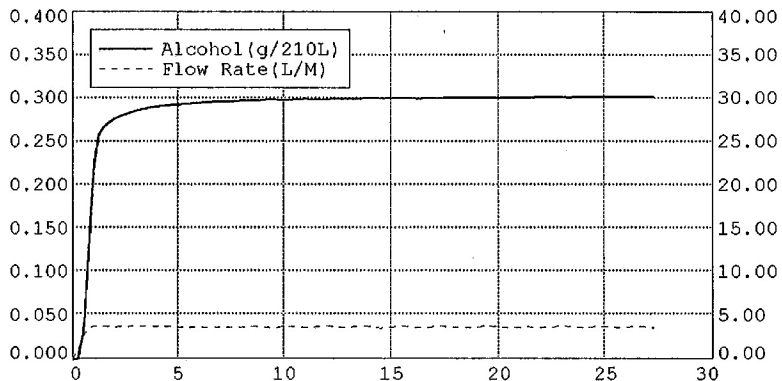
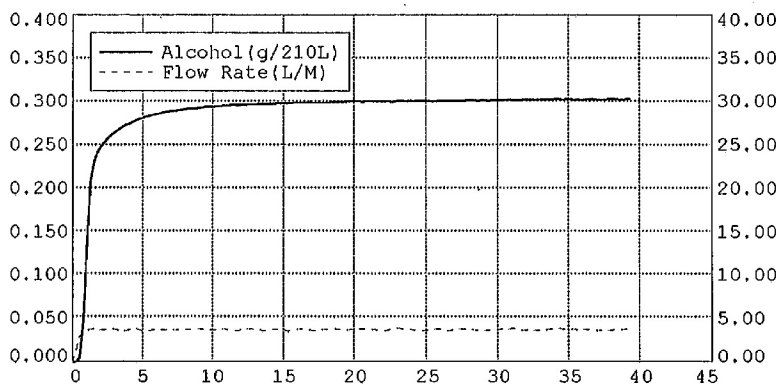
NOMINAL: 0.300

LOT #: 11110

EXPIRATION: 07/13/2013

BLANK TEST	0.000	16:10
INTERNAL STANDARD	VERIFIED	16:10
EXTERNAL STANDARD	0.303	16:11
BLANK TEST	0.000	16:12
EXTERNAL STANDARD	0.302	16:13
BLANK TEST	0.000	16:14
EXTERNAL STANDARD	0.302	16:14
BLANK TEST	0.000	16:15
EXTERNAL STANDARD	0.302	16:16
BLANK TEST	0.000	16:17
EXTERNAL STANDARD	0.303	16:17
BLANK TEST	0.000	16:18

Average = 0.3026
Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100356

Date: 03/08/2012
Time: 09:55:08

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

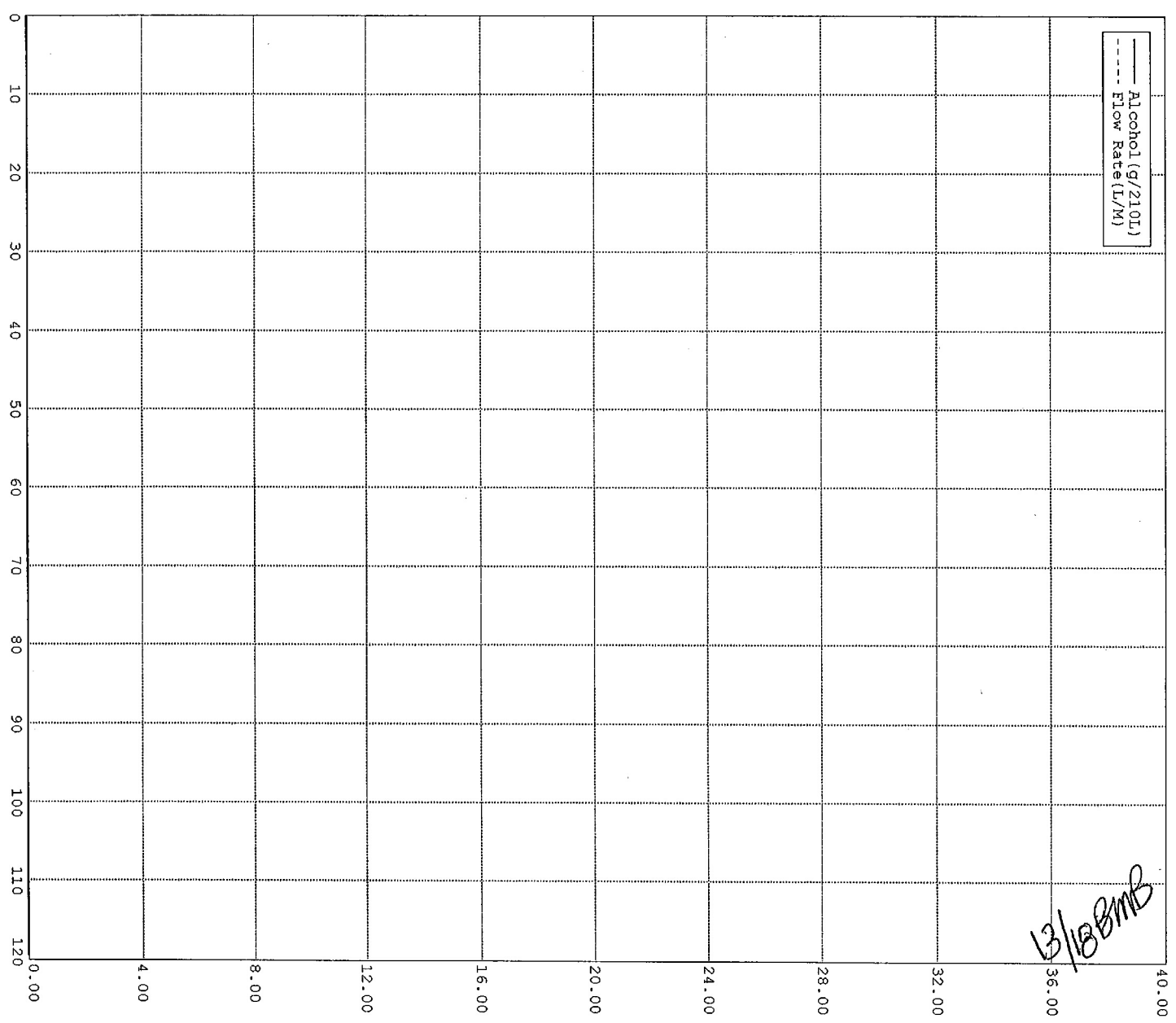
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:57
BLANK TEST	0.000	09:57
INTERNAL STANDARD	VERIFIED	09:57
EXTERNAL STANDARD	0.078	09:57
BLANK TEST	0.000	09:58
SUBJECT SAMPLE	INCOMPLETE	10:00

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100356

Date: 03/08/2012
Time: 10:34:00

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

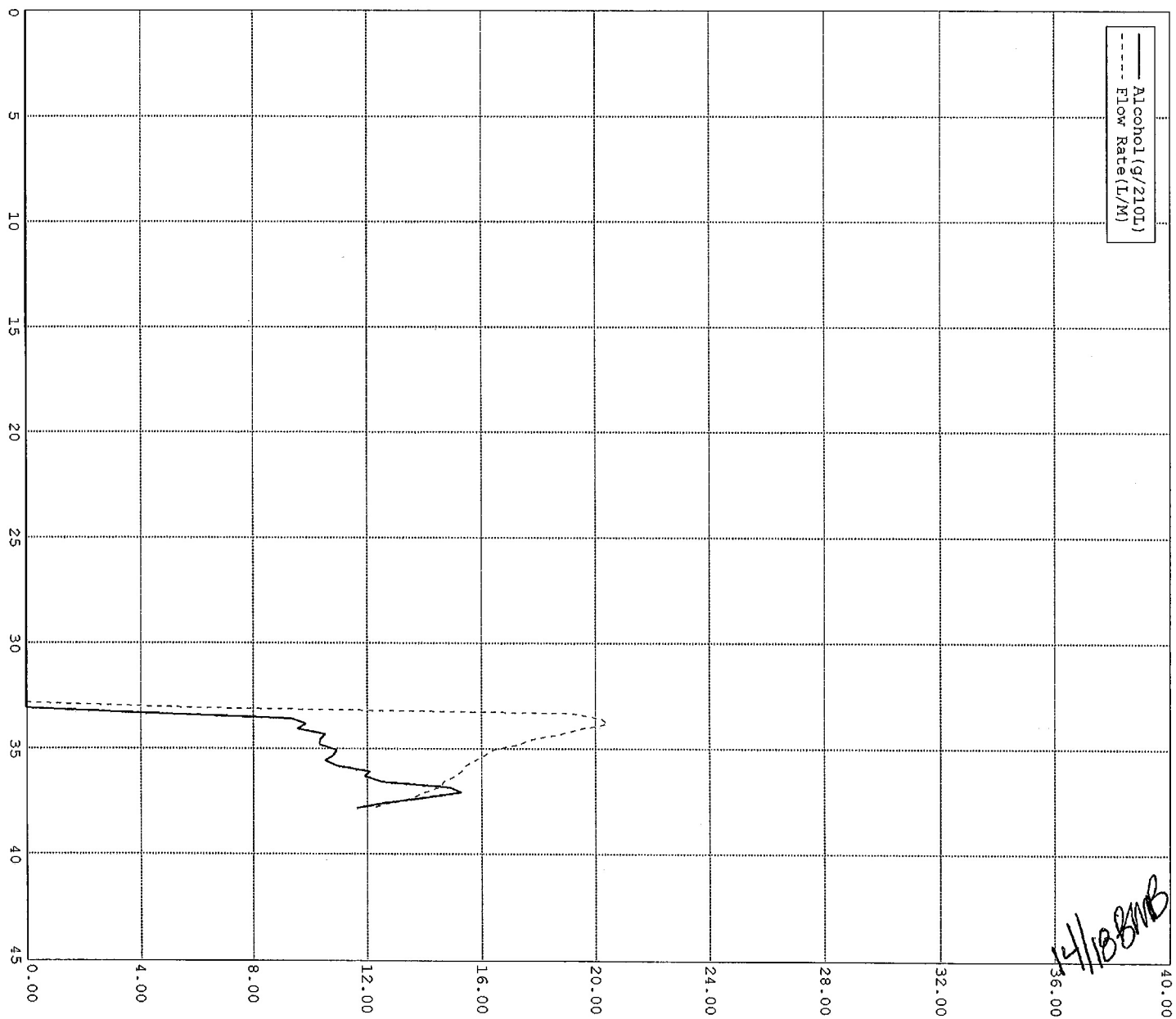
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.43: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:35
BLANK TEST	0.000	10:35
INTERNAL STANDARD	VERIFIED	10:35
EXTERNAL STANDARD	0.078	10:35
BLANK TEST	0.000	10:36
SUBJECT SAMPLE	INVALID	10:37

BBMB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100356

Date: 03/08/2012
 Time: 11:33:13

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

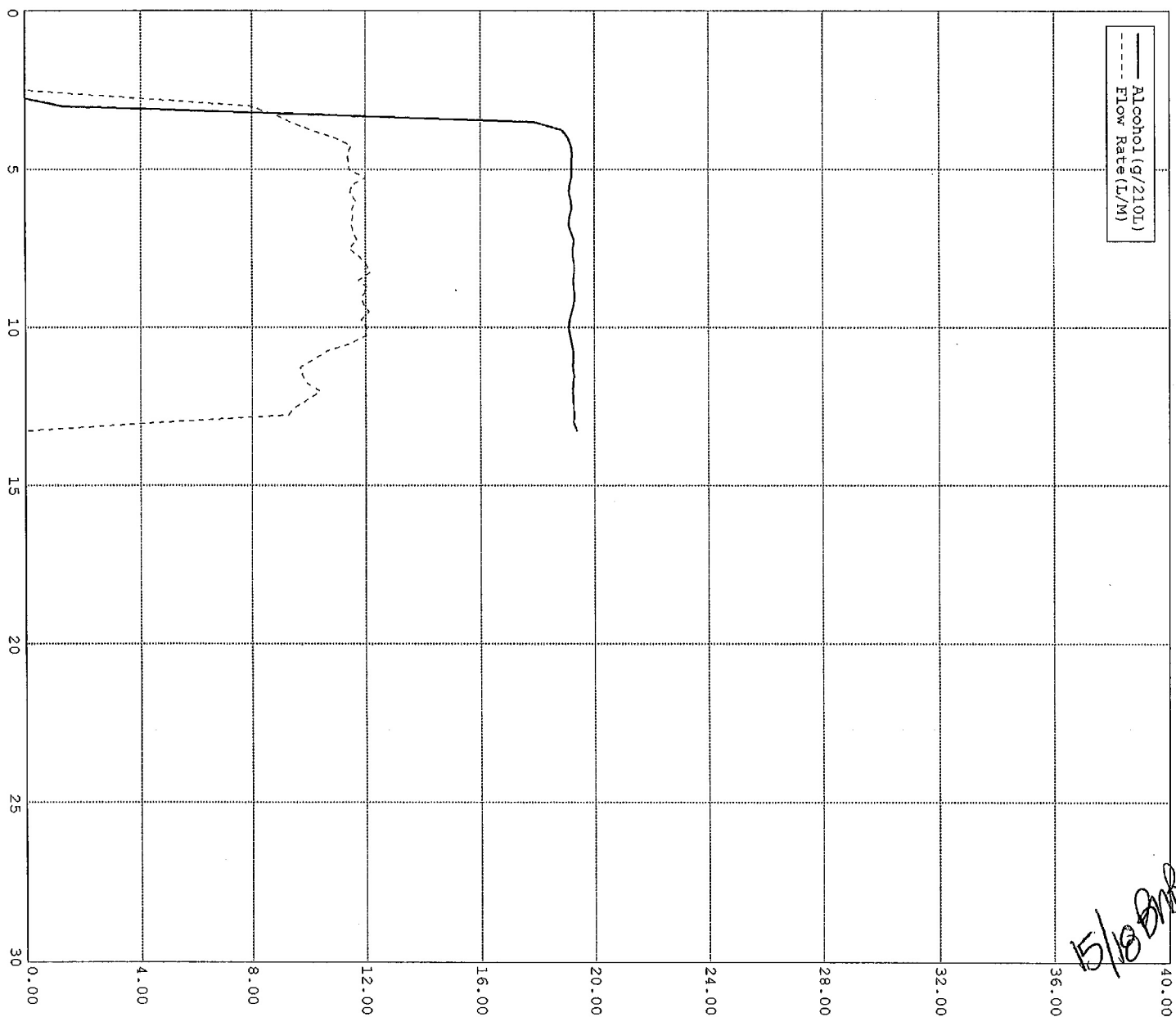
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 ETHANOL AND IPA
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.39: 0.078
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:34
BLANK TEST	0.000	11:34
INTERNAL STANDARD	VERIFIED	11:34
EXTERNAL STANDARD	0.078	11:34
BLANK TEST	0.000	11:35
SUBJECT SAMPLE	INTERFERENCE	11:35

Handwritten signature: BMB

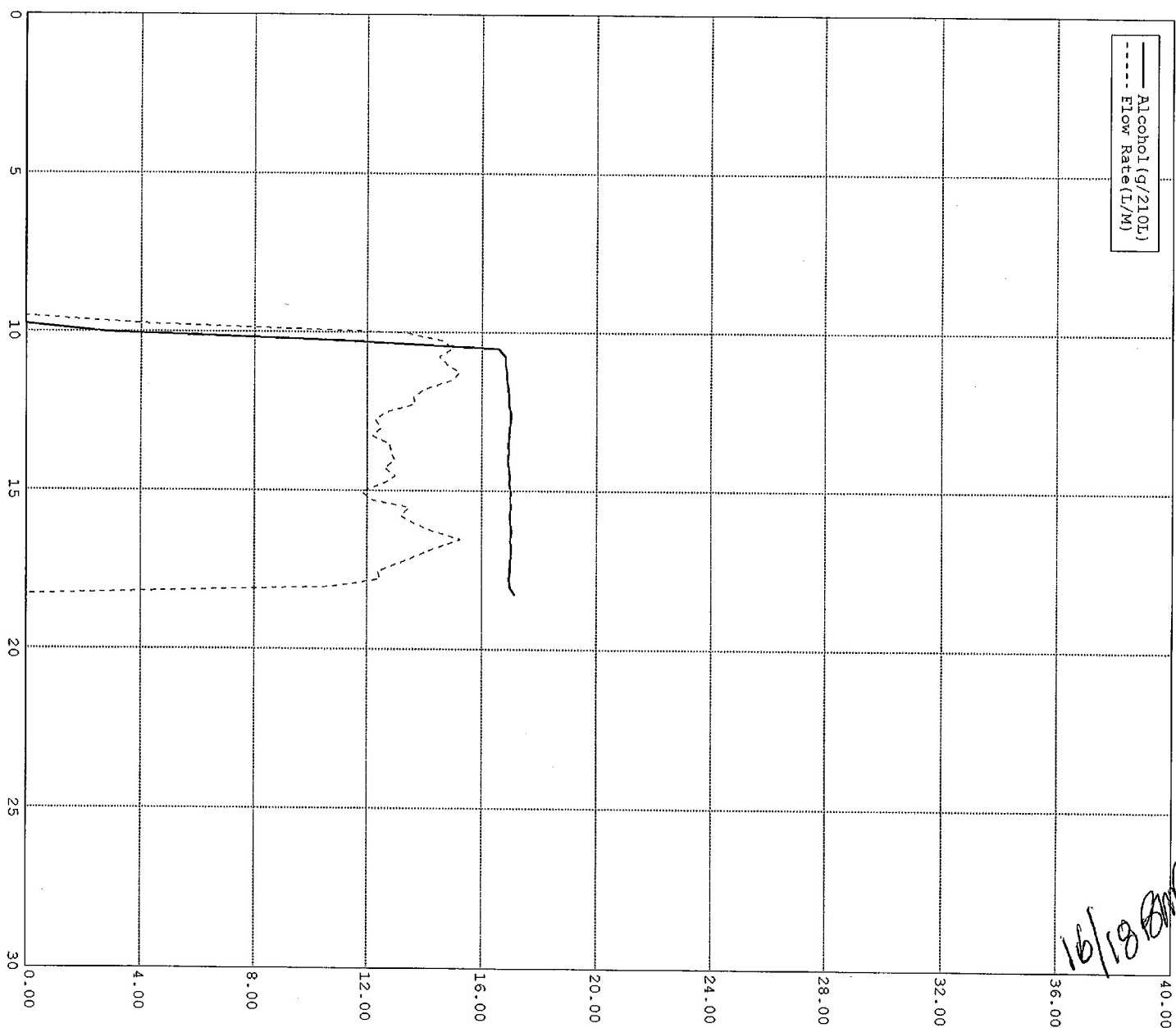


SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100356Date: 03/08/2012
Time: 11:23:19SUBJECT NAME:
TEST TEST
LICENSE #: INTERFEREOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
ETHANOL AND ACETONE
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.39: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:24
BLANK TEST	0.000	11:24
INTERNAL STANDARD	VERIFIED	11:24
EXTERNAL STANDARD	0.077	11:25
BLANK TEST	0.000	11:25
SUBJECT SAMPLE	INTERFERENCE	11:26

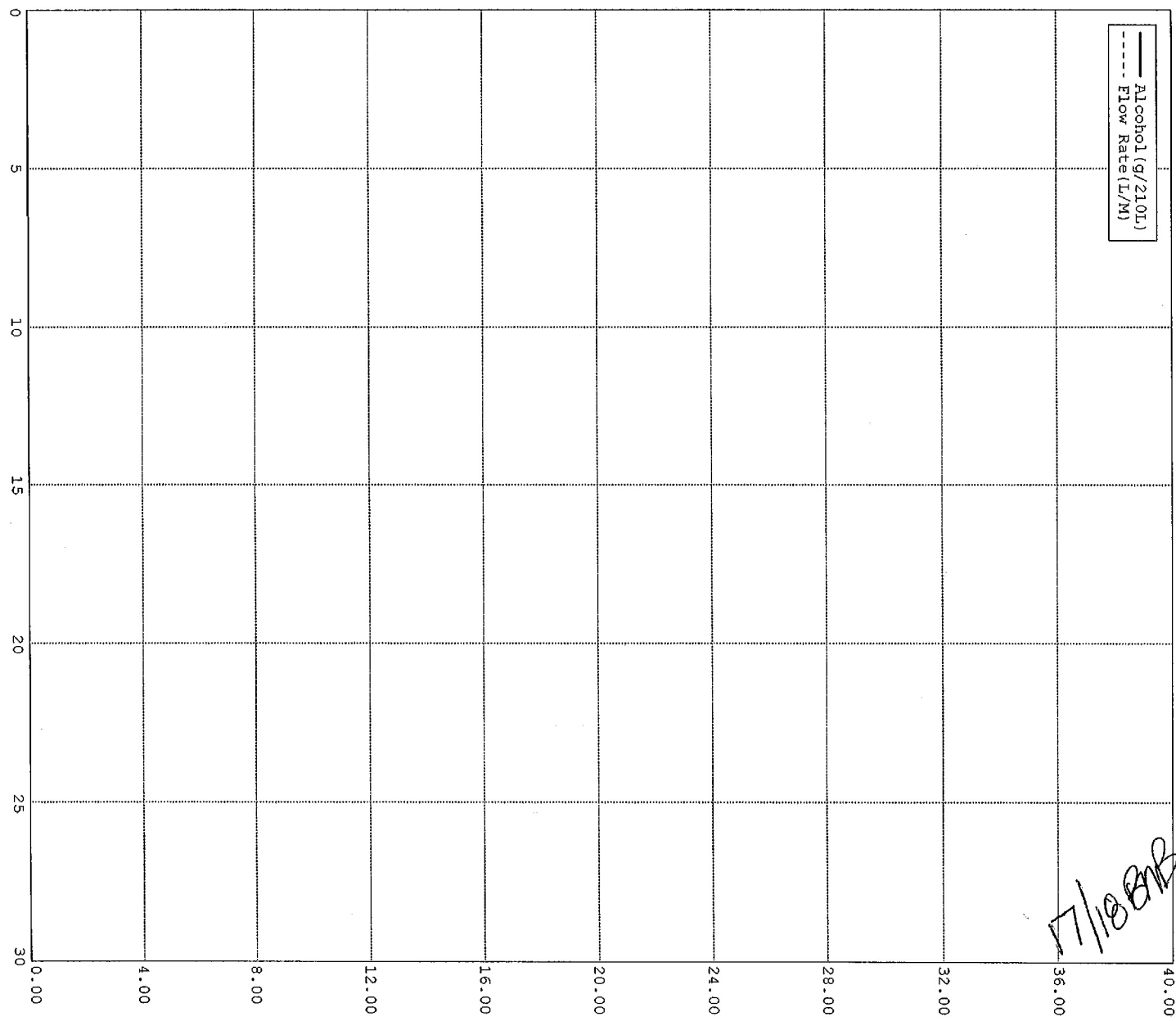
BMB

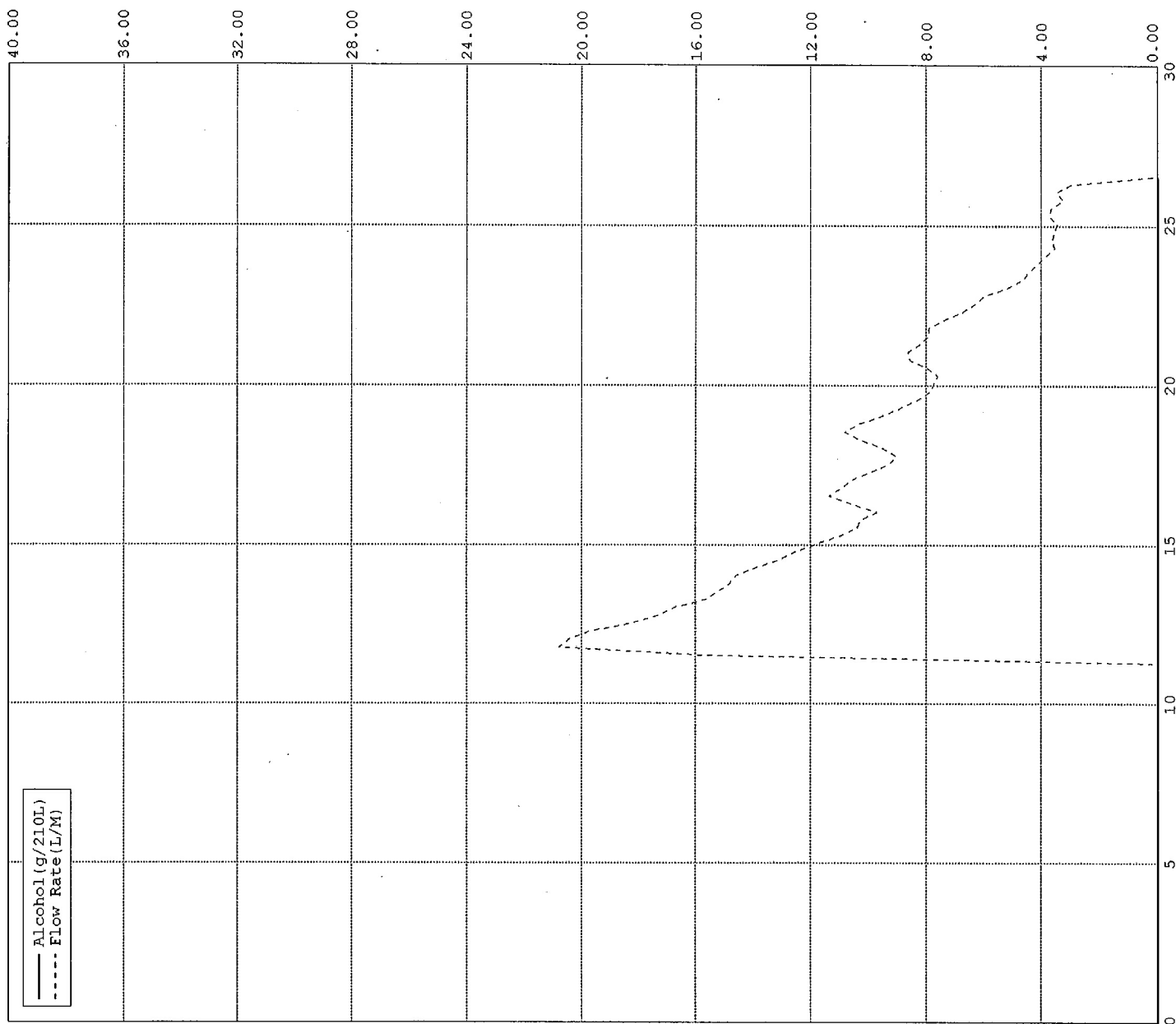


SUBJECT TEST	

Alaska Department of Public Safety	
DATA MASTER dnt: 100356	

Date: 03/08/2012	
Time: 11:11:55	
SUBJECT NAME:	
TEST TEST	
LICENSE #: XXXX	
OPERATOR NAME:	
BRANDI BARNETT	
OPERATOR'S #: 7038	
DEPT/AGENCY:	
RADIO FREQUENCY INTERFERE	
CASE/REPORT: XXXX	
TEST TYPE: TEST	
EXTERNAL STANDARD INFORMATION	
NOMINAL: 0.080	
TARGET AT 29.41: 0.078	
LOT #: 07511080A1	
EXPIRATION: 03/01/2013	
DIAGNOSTIC CHECK	
BLANK TEST	PASSED 11:13
INTERNAL STANDARD	0.000 11:13
EXTERNAL STANDARD	VERIFIED 11:13
	0.078 11:14
BLANK TEST	0.000 11:14
RFI DETECTED	





SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100356

Date: 03/08/2012
 Time: 12:00:37

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.39: 0.078
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	12:01
BLANK TEST	0.000	12:01
INTERNAL STANDARD	VERIFIED	12:02
EXTERNAL STANDARD	0.079	12:02
BLANK TEST	0.000	12:03
SUBJECT SAMPLE	0.000	12:03
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.079	12:04
BLANK TEST	0.000	12:05

Handwritten signature: B. Barnett

Handwritten date and initials: 10/18/12