

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R0
Status: Active

Instrument S/N 100665Analyst Brandi BarnettStart Date 3/7/12

Updated to 2.00 + USB Fixer, verified rear vent 3/7/12 BMB

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 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 05611100A2 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 11110 Lot Guth 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 01/10/2012 11/17/2012 BMBd. 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/AEnd Date 3/8/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100665

Date: 03/07/2012
Time: 10:56:58

VERSIONS

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

TEMPERATURES

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

PUMP INFO

Flow Rate = 5.489 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

INTERNAL STANDARD	PASSED
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2/18/08

Technician Screen

DATAMASTER dmt: 100665

Date: 03/07/2012

Time: 11:02 AM

Temperatures (°C)

Sample Cell: 49.5°C

Breath Tube: 47.6°C

Current Barometer 29.8 in

Volume (Ltr) 1.57

Settings

Lamp: 1.67 V

Bias: 80 V

Cooler: 1.73 V

Chopper: 552 Hz

Voltages (V)

Flow: 1.06 V

Detector: -0.036 V

3/18 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100665

Date: 09/21/2011
Time: 08:48:38

Ca	=	0.1510		
CAL	=	0.996476	0.800	<= CAL < 1.200
b1	=	0.0000	0.0000	<= b1 < 0.0040
b2	=	0.0033	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.1303	0.0500	<= Xq < 0.2000
a21	=	1.224803	1.050	<= a21 < 1.300
a31	=	0.521345	0.300	<= a31 < 0.800

4/18 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100665

Date: 03/07/2012
 Time: 11:03:57

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI M BARNETT
 OPERATOR'S #: 7038

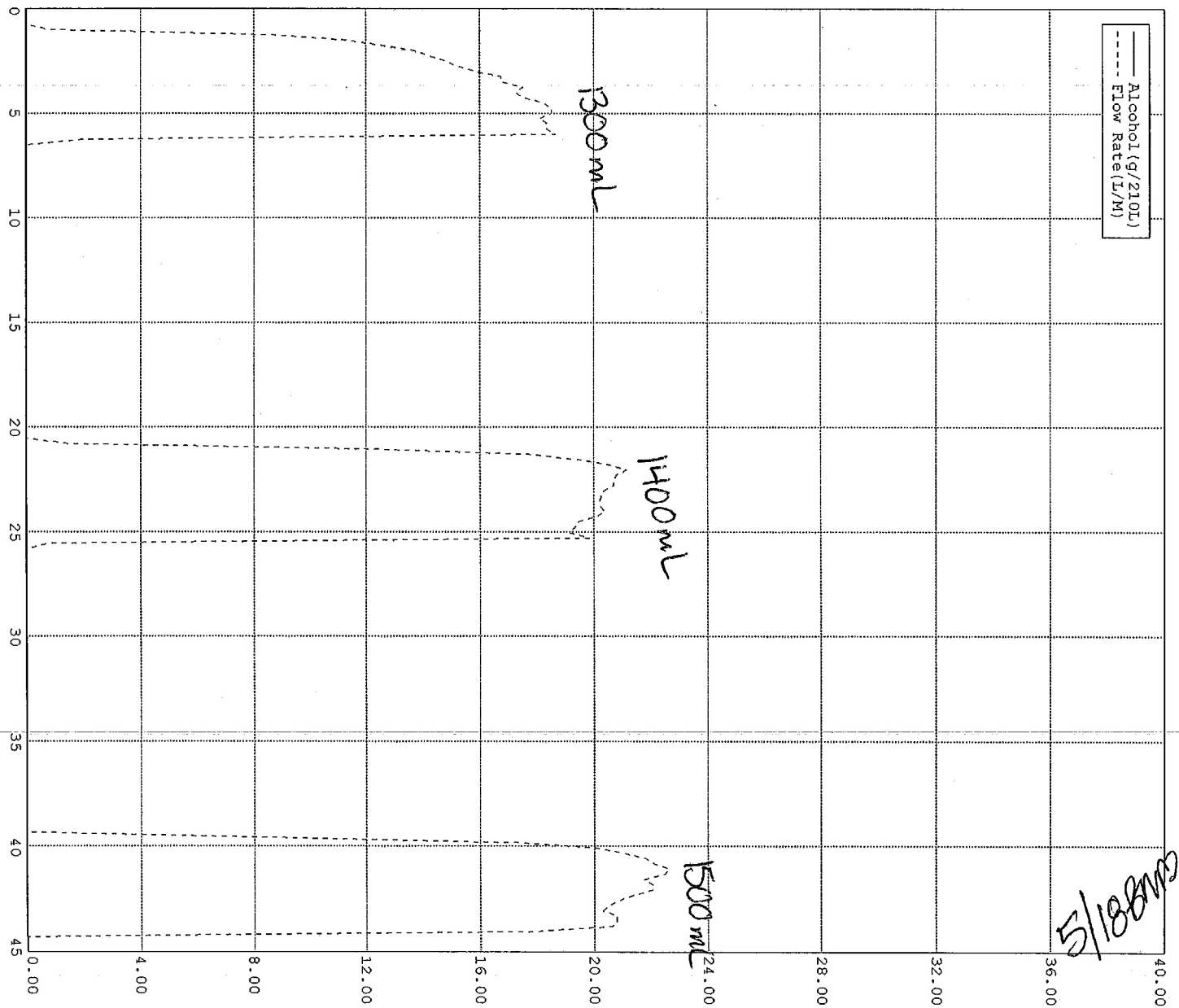
DEPT/AGENCY:
 MINIMUM VOLUME
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.80: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:04
BLANK TEST	0.000	11:05
INTERNAL STANDARD	0.078	11:05
EXTERNAL STANDARD	0.000	11:06
BLANK TEST	0.000	11:07
SUBJECT SAMPLE	0.000	11:08
BLANK TEST	0.079	11:08
EXTERNAL STANDARD	0.000	11:09
BLANK TEST		

BM



LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dnt: 100665

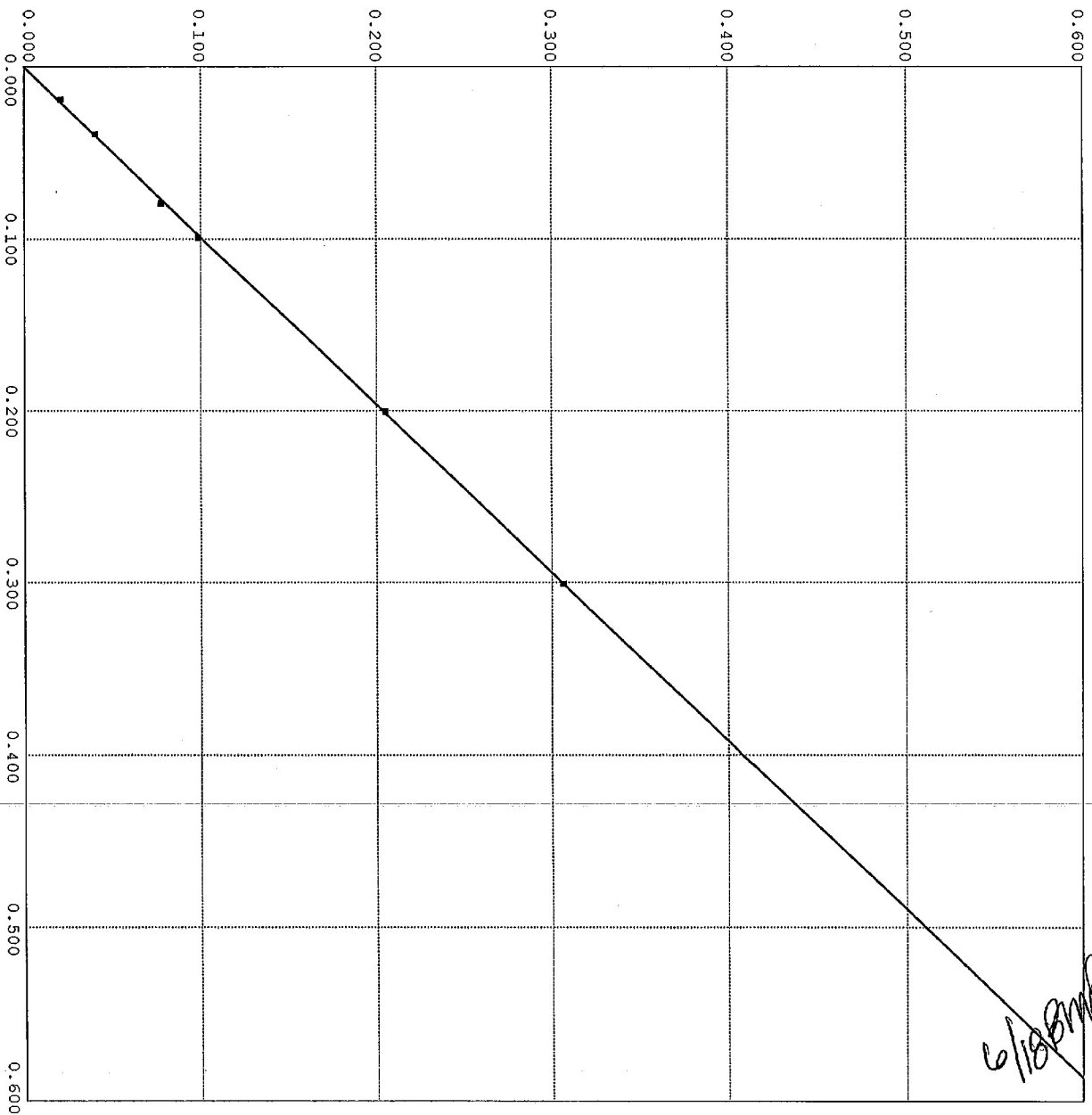
Date: 03/07/2012
Time: 11:16:57

SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0212	0.0002
0.039	0.0408	0.0001
0.079	0.0786	0.0002
0.099	0.0999	0.0002
0.200	0.2060	0.0004
0.300	0.3074	0.0004

SLOPE = 1.024297
 R^2 = 0.999788

Brandi Barnett



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100665

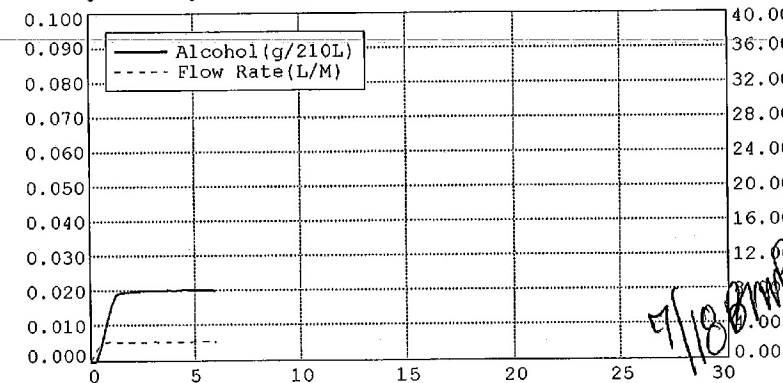
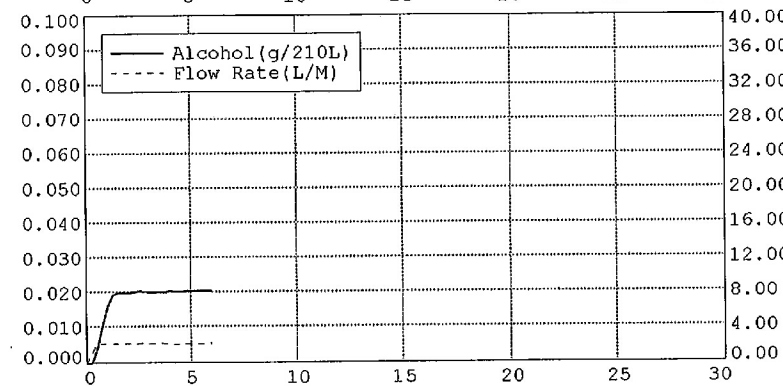
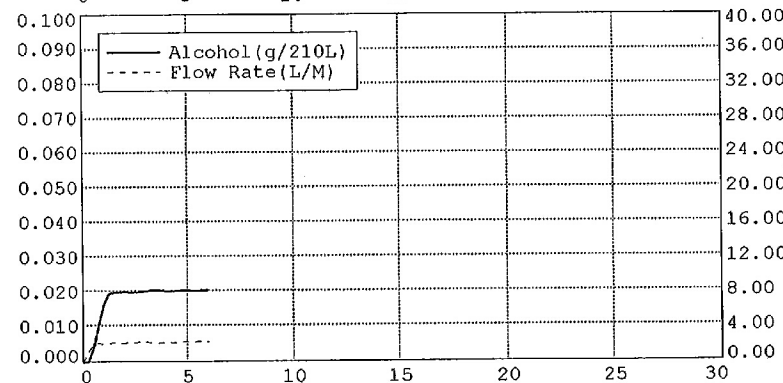
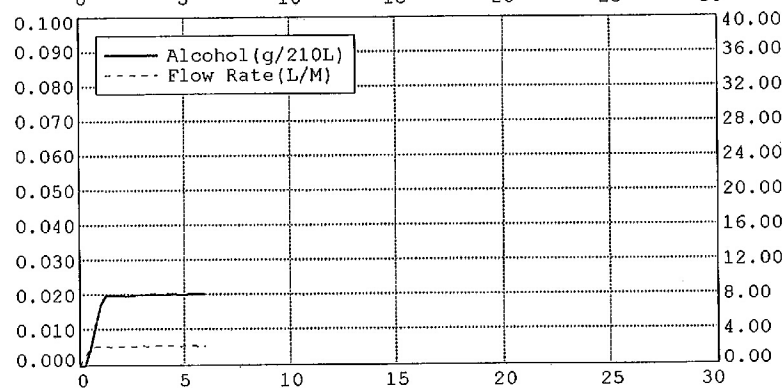
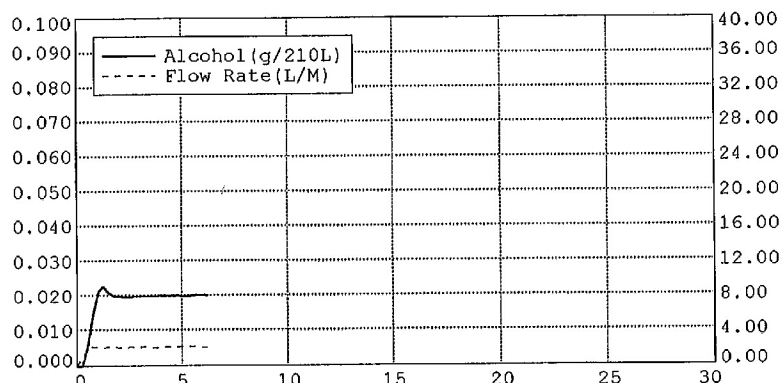
Date: 03/07/2012
Time: 11:16:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.80: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:18
INTERNAL STANDARD	VERIFIED	11:18
EXTERNAL STANDARD	0.020	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.021	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.021	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.021	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.021	11:22
BLANK TEST	0.000	11:23

Average = 0.0212
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100665

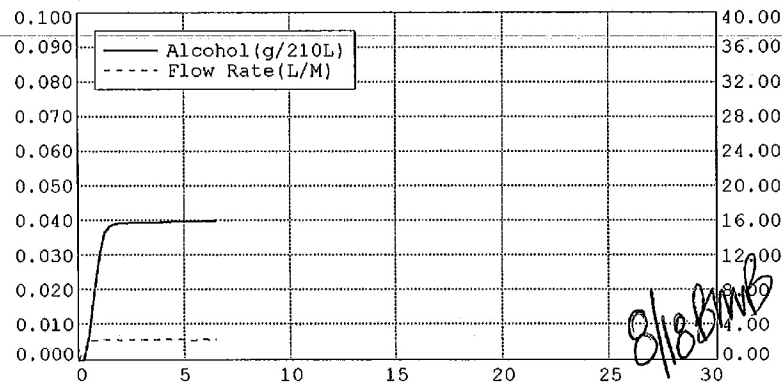
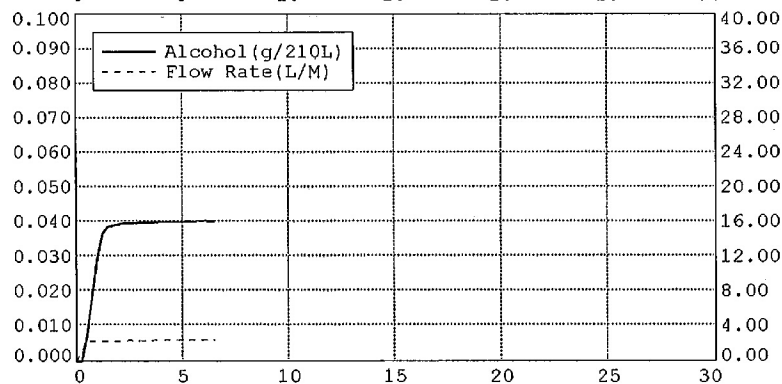
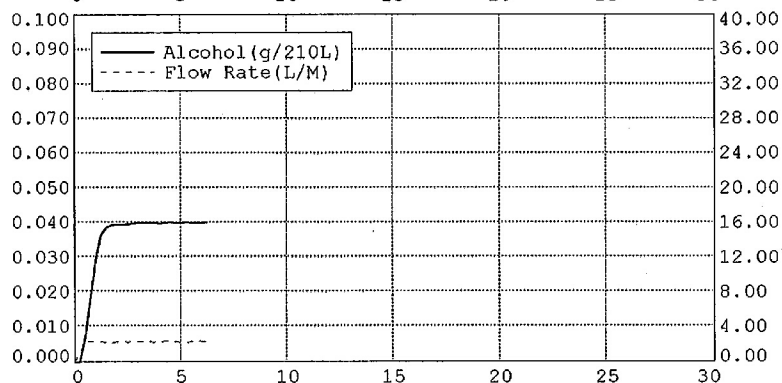
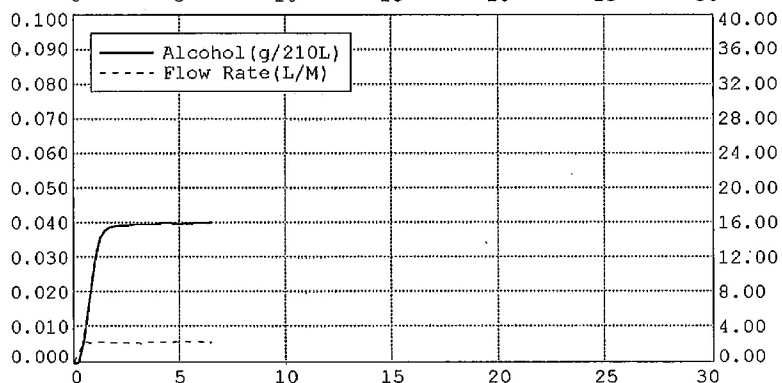
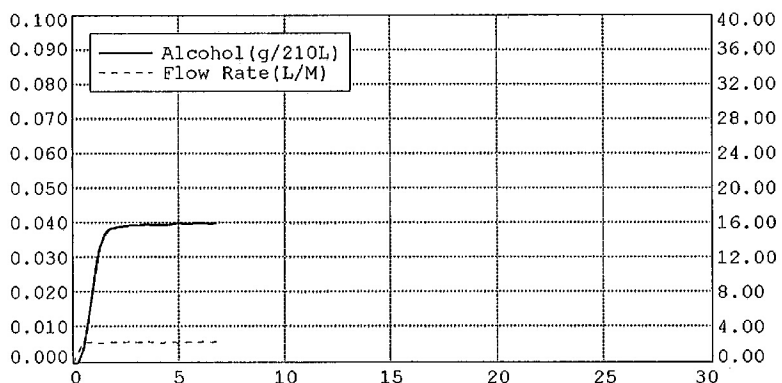
Date: 03/07/2012
Time: 11:25:23

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:27
INTERNAL STANDARD	VERIFIED	11:27
EXTERNAL STANDARD	0.040	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.040	11:28
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.040	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.040	11:30
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.040	11:31
BLANK TEST	0.000	11:32

Average = 0.0408
Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100665

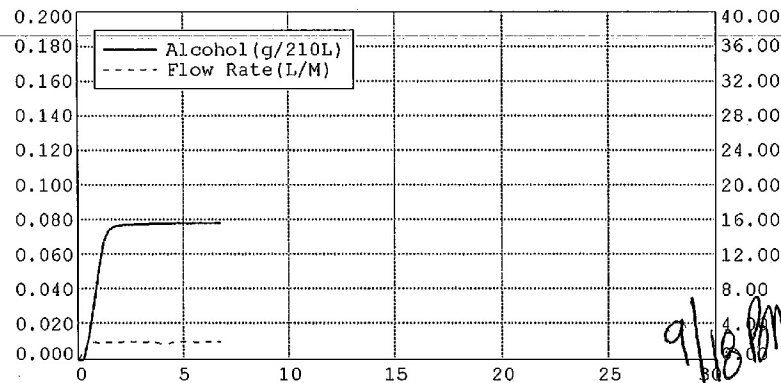
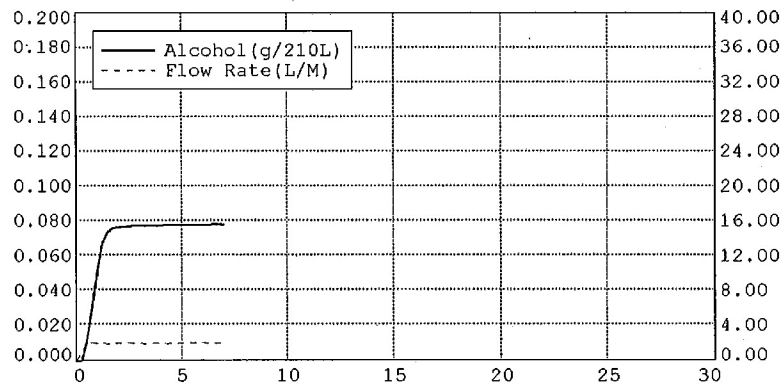
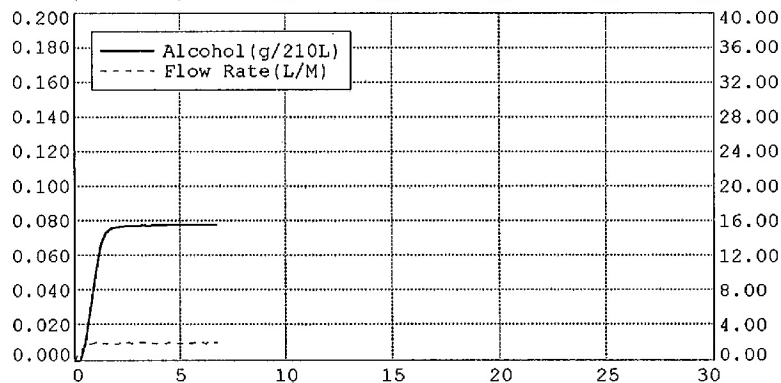
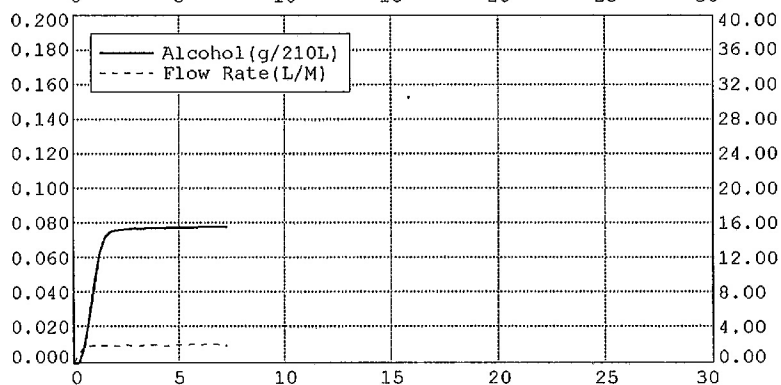
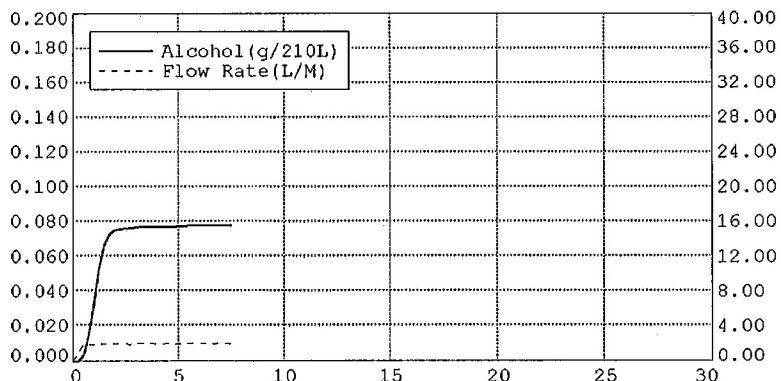
Date: 03/07/2012
Time: 11:37:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.80: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:38
INTERNAL STANDARD	VERIFIED	11:38
EXTERNAL STANDARD	0.078	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.078	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.078	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.078	11:42
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.078	11:43
BLANK TEST	0.000	11:44

Average = 0.0786
Std Dev = 0.0002



9/10/12 BMB

LINEARITY CHECK: Control Test 4

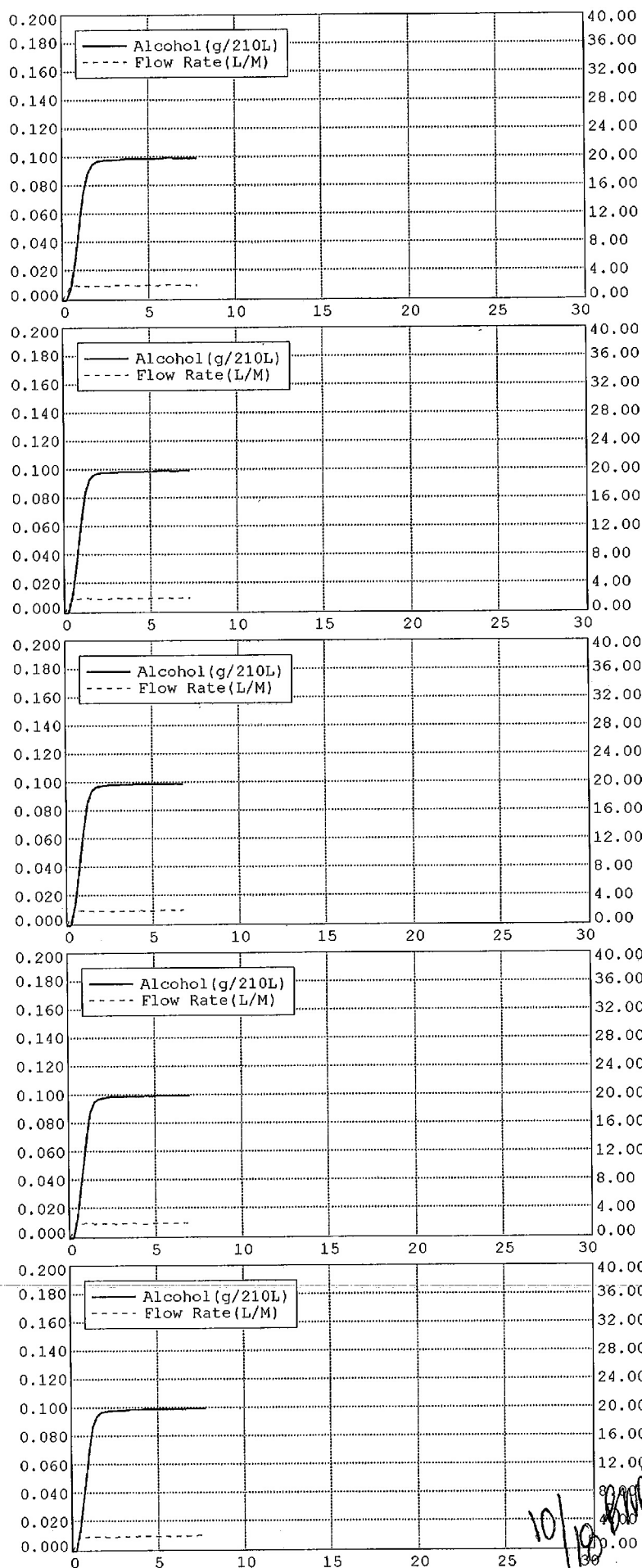
Alaska Department of Public Safety
DATAMASTER dmt: 100665

Date: 03/07/2012
Time: 11:45:56

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.80: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:47
INTERNAL STANDARD	VERIFIED	11:47
EXTERNAL STANDARD	0.099	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.099	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.099	11:49
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.100	11:50
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.100	11:52
BLANK TEST	0.000	11:52

Average = 0.0999
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

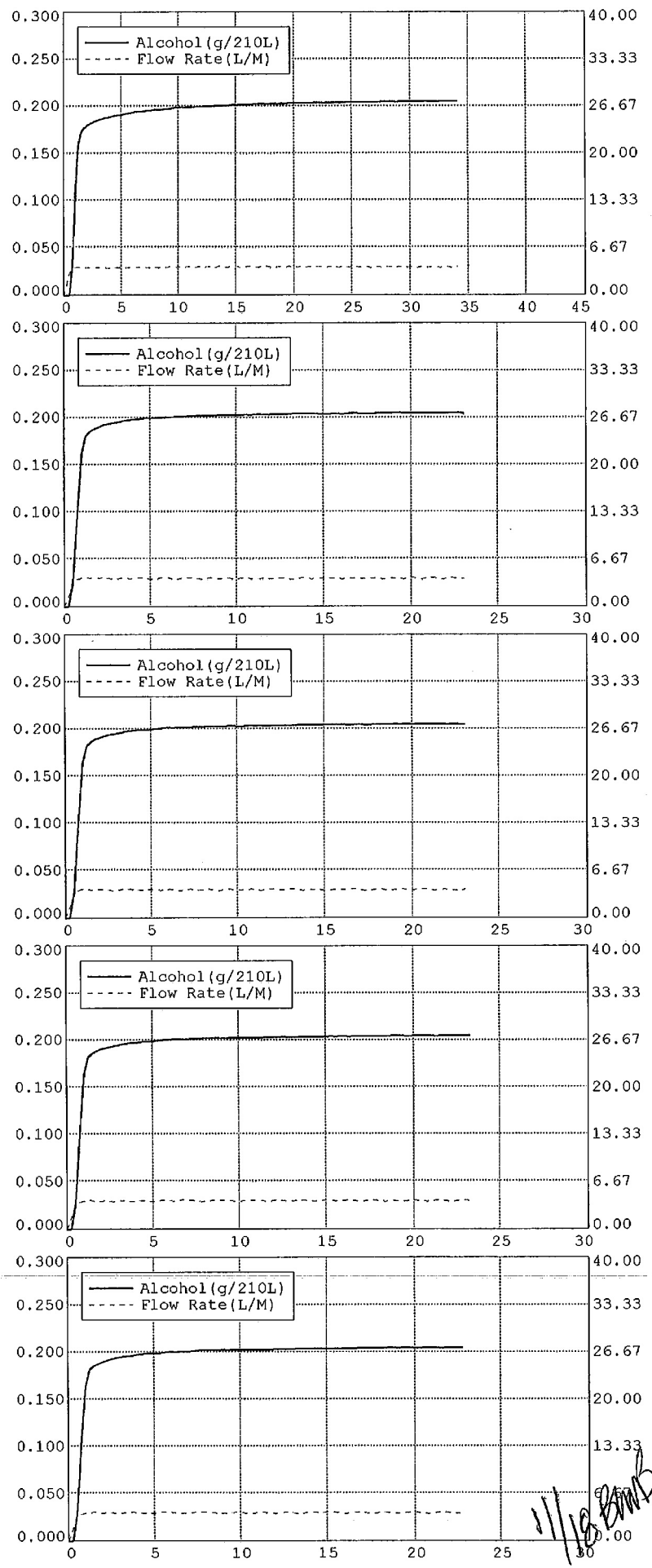
Alaska Department of Public Safety
DATAMASTER dmt: 100665

Date: 03/07/2012
Time: 14:50:47

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

BLANK TEST	0.000	14:51
INTERNAL STANDARD	VERIFIED	14:52
EXTERNAL STANDARD	0.206	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.205	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.206	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.205	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.205	14:58
BLANK TEST	0.000	14:59

Average = 0.2060
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100665

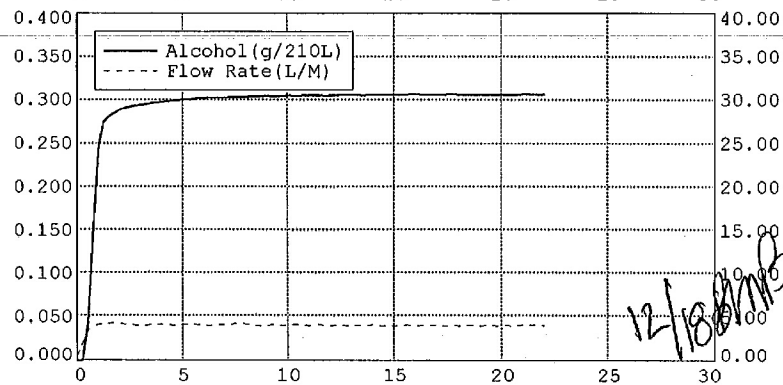
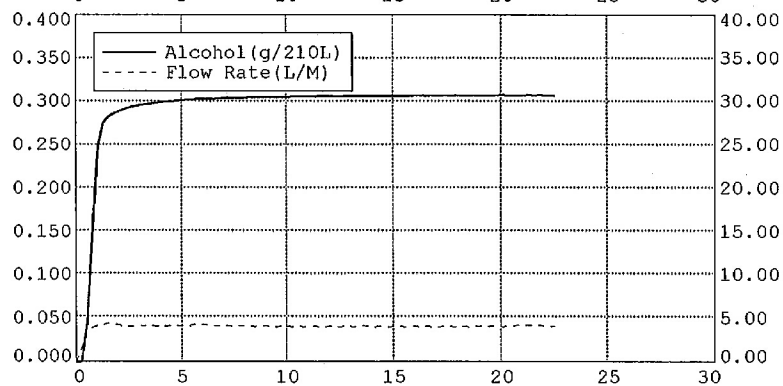
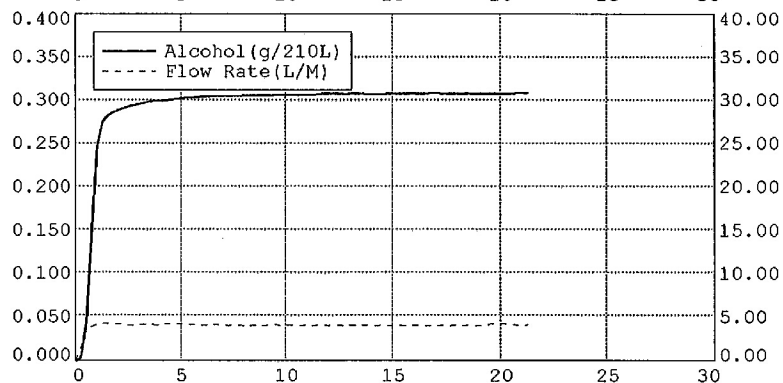
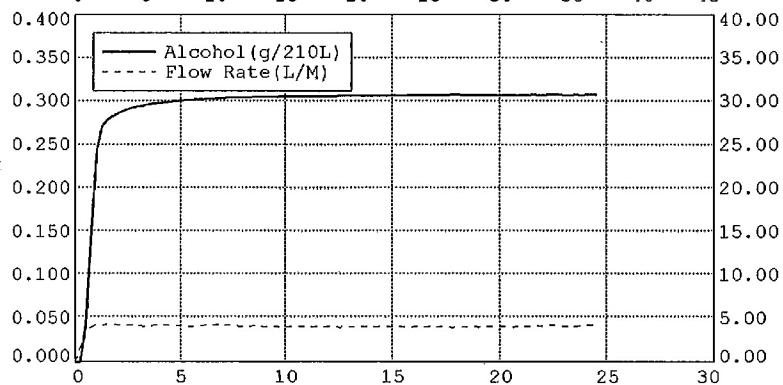
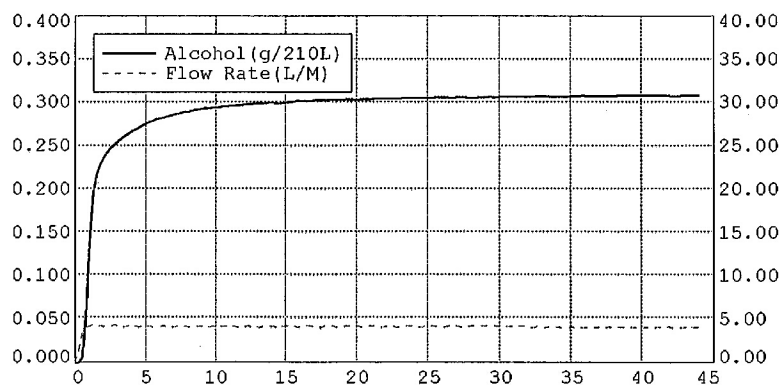
Date: 03/07/2012
Time: 15:15:55

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:17
INTERNAL STANDARD	VERIFIED	15:17
EXTERNAL STANDARD	0.307	15:18
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.307	15:19
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.308	15:21
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.307	15:22
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.307	15:24
BLANK TEST	0.000	15:24

Average = 0.3074
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100665

Date: 03/08/2012
Time: 09:55:00

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

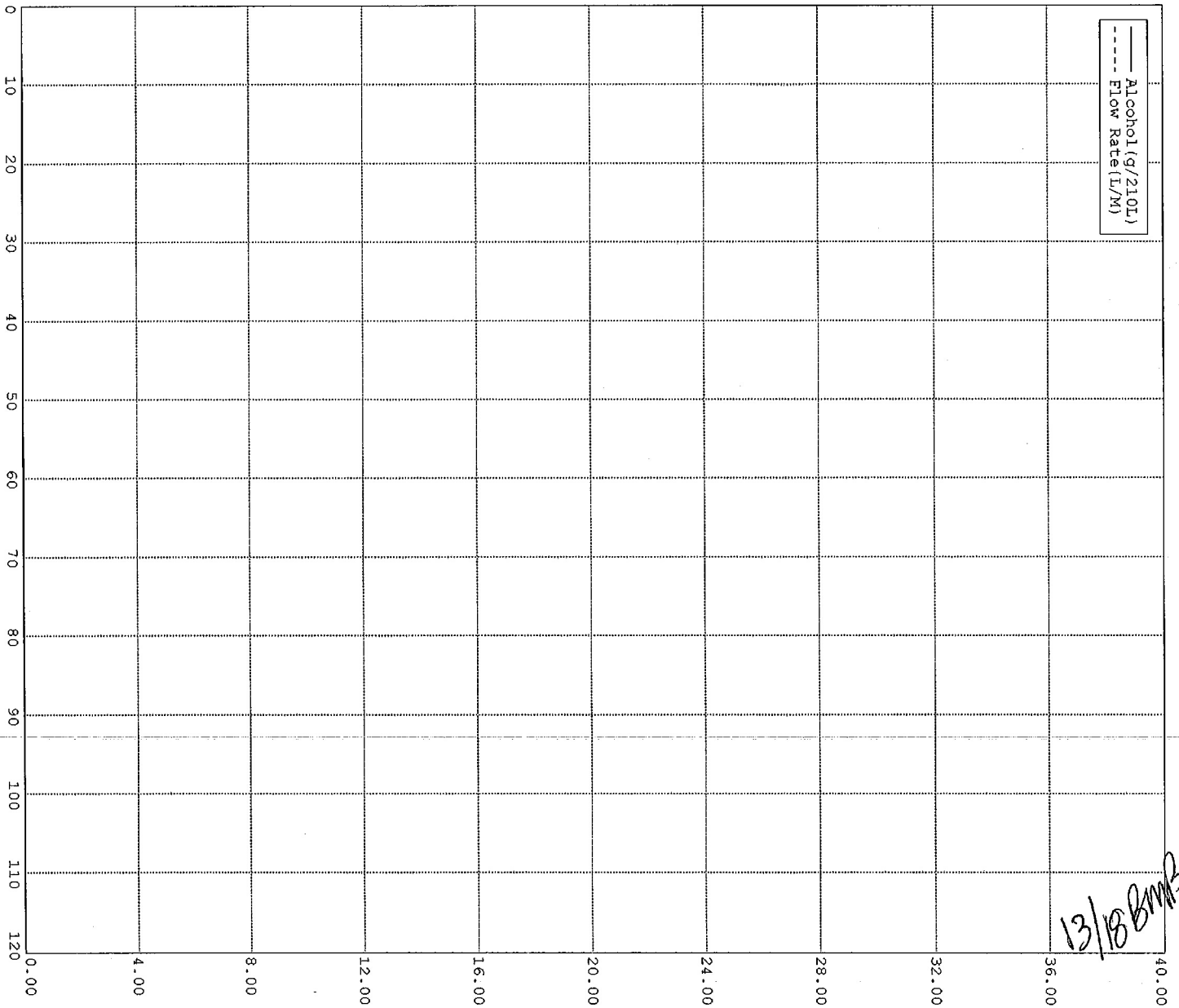
DEPT/AGENCY:
INCOMPLETE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.47: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:56
BLANK TEST	0.000	09:56
INTERNAL STANDARD	VERIFIED	09:56
EXTERNAL STANDARD	0.079	09:56
BLANK TEST	0.000	09:57
SUBJECT SAMPLE	INCOMPLETE	09:59

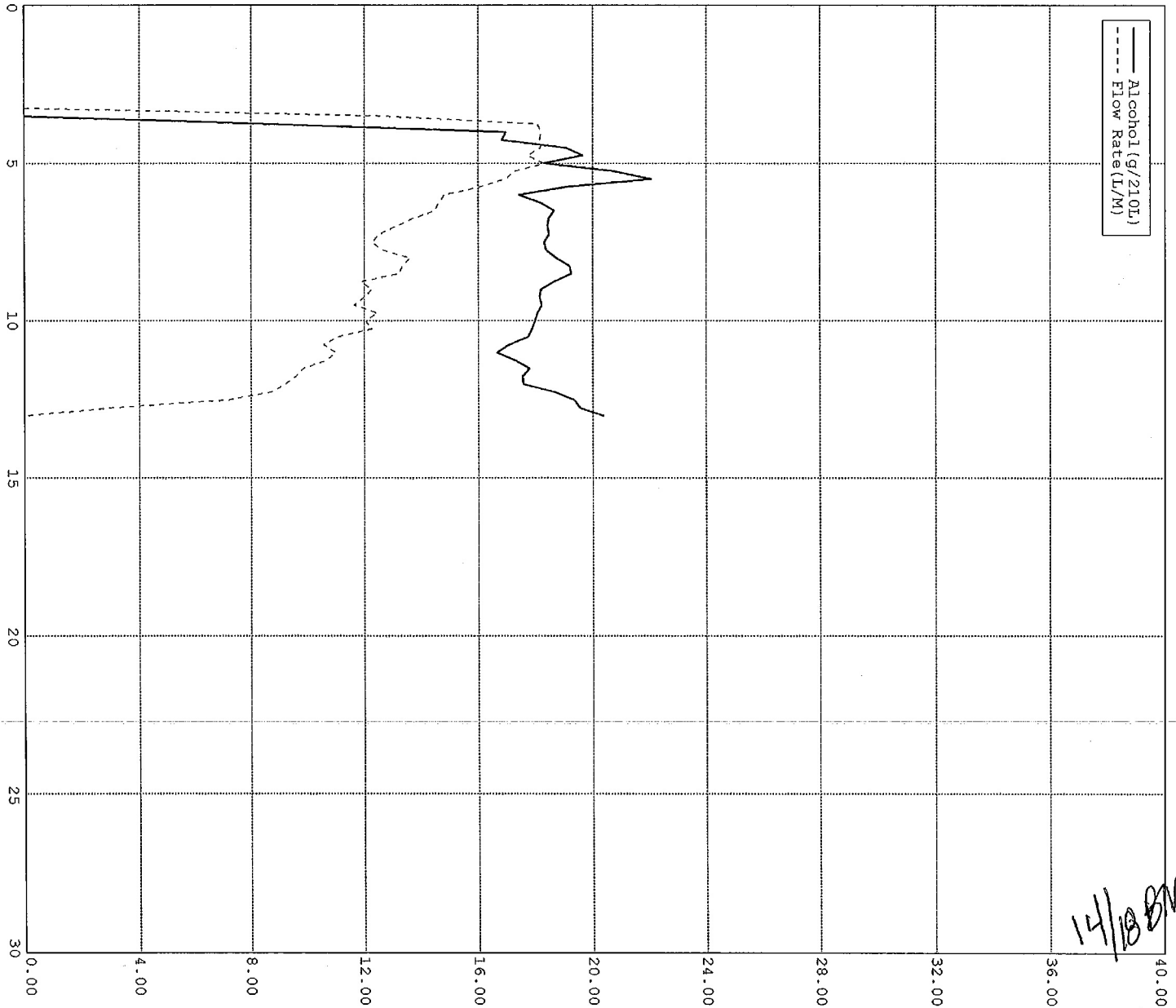
BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100665Date: 03/08/2012
Time: 10:32:09SUBJECT NAME:
TEST TEST
LICENSE #: INVALIDOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.44: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 10:34
INTERNAL STANDARD 0.000 10:34
EXTERNAL STANDARD 0.078 10:34
BLANK TEST 0.000 10:35
SUBJECT SAMPLE INVALID 10:36

BMB



14/18 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100665

Date: 03/08/2012
 Time: 11:22:59

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

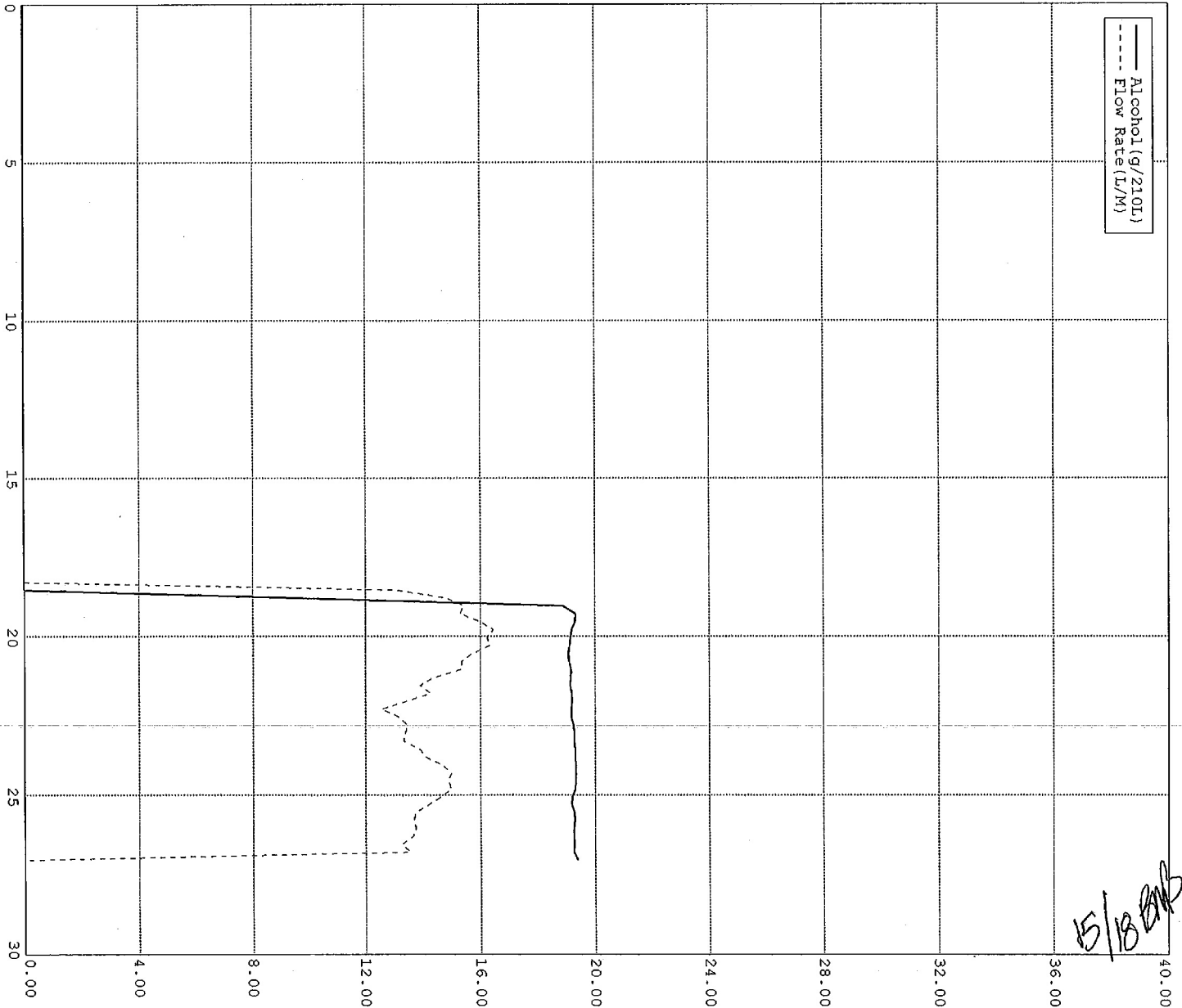
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.42: 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	0.079	11:24
BLANK TEST	0.000	11:25
SUBJECT SAMPLE	INTERFERENCE	11:26

Handwritten signature: BMB



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100665

Date: 03/08/2012
Time: 11:29:31

SUBJECT NAME:

TEST TEST

LICENSE #: INTERFERE

OPERATOR NAME:

BRANDI BARNETT

OPERATOR'S #: 7038

DEPT/AGENCY:

ETHANOL AND ACETONE

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

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED

0.000

VERIFIED

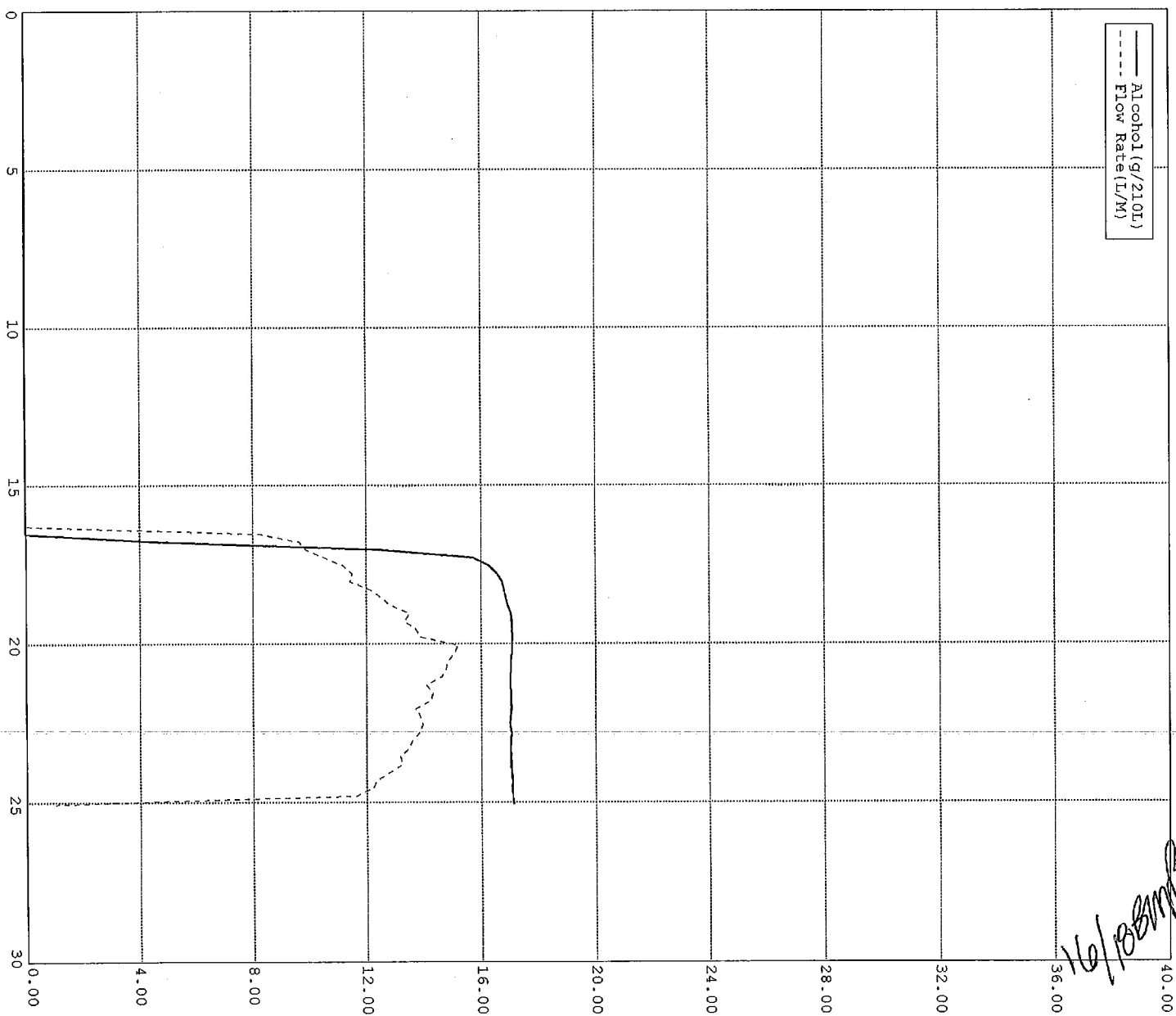
0.079

0.000

INTERFERENCE

11:31
11:31
11:31
11:31
11:32
11:3311:31
11:31
11:31
11:32
11:33

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100665

Date: 03/08/2012
Time: 11:11:31

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

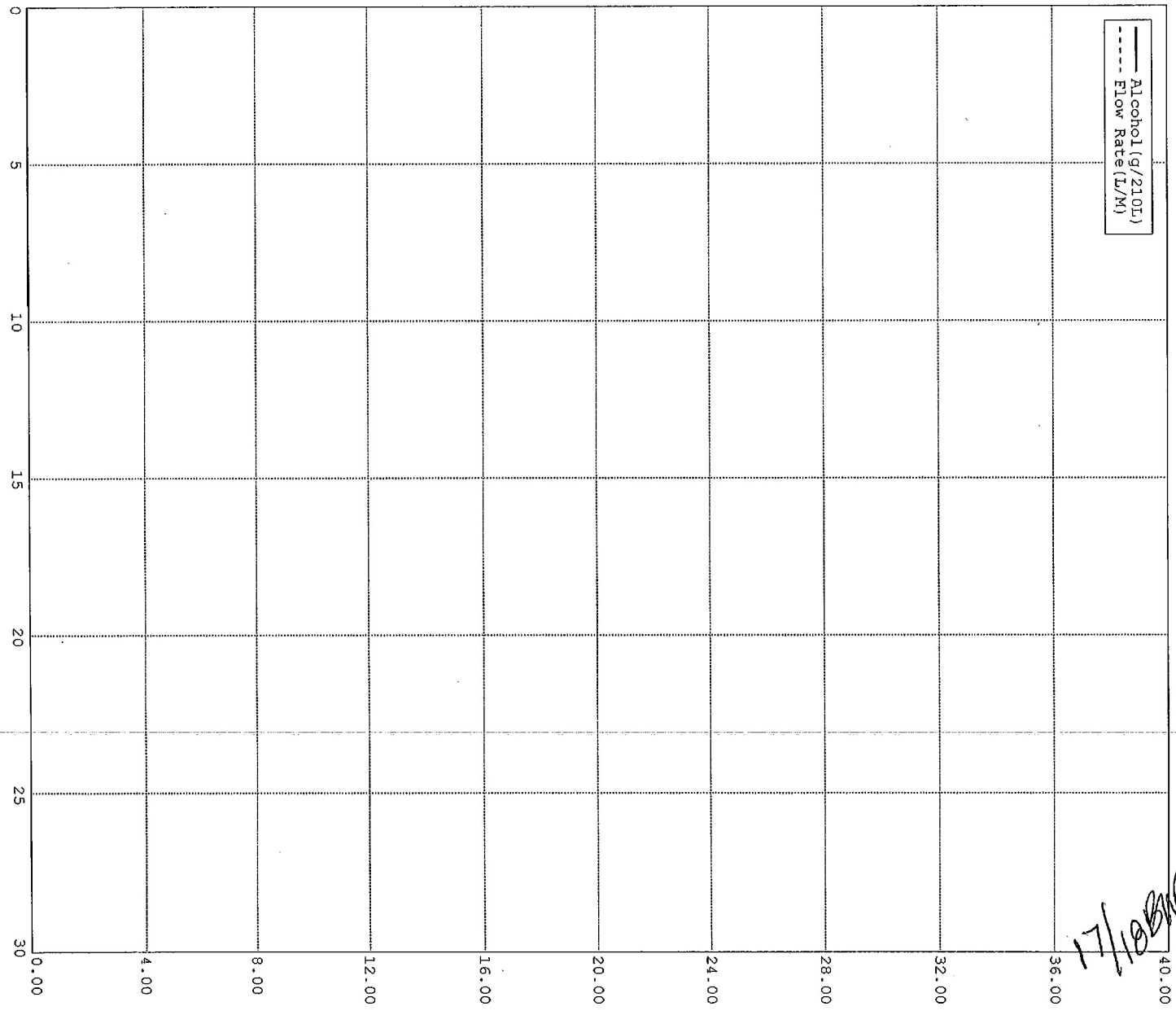
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

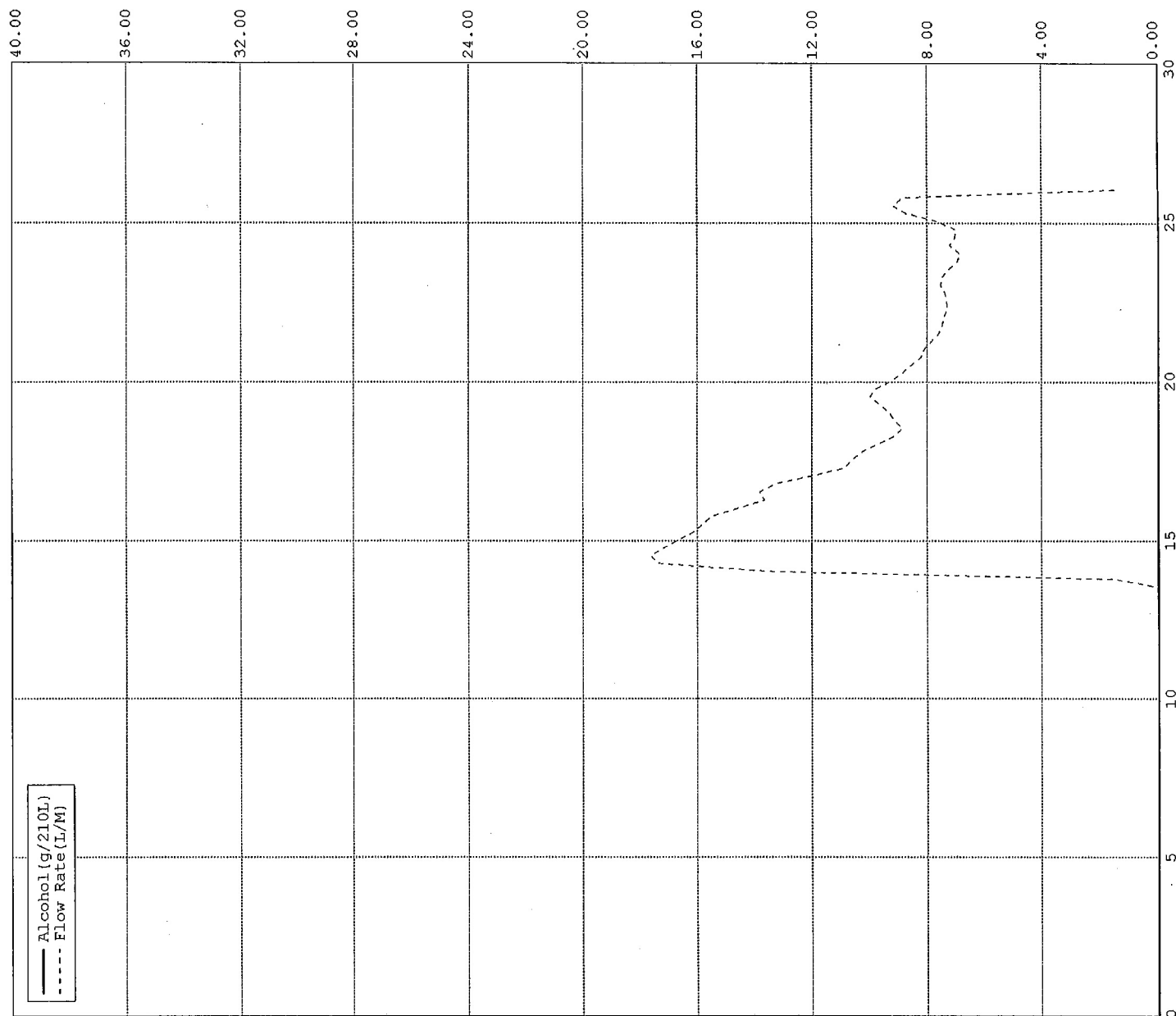
DEPT/AGENCY:
RADIO FREQUENCY INTERFERE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK
BLANK TEST PASSED 11:12
INTERNAL STANDARD VERIFIED 11:12
EXTERNAL STANDARD 11:13
BLANK TEST 0.079 11:13
0.000 11:14

RFI DETECTED





SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100665

Date: 03/08/2012
Time: 12:01:48

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 29.38: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

BLANK TEST
INTERNAL STANDARD
EXTERNAL STANDARD
BLANK TEST
SUBJECT SAMPLE
BLANK TEST
EXTERNAL STANDARD
BLANK TEST

PASSED 12:02
0.000 12:02
VERIFIED 12:03
0.079 12:03
0.000 12:04
0.000 12:04
0.000 12:05
0.079 12:05
0.000 12:06

18/18 BMB

Final page for report

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\ANCSCLSAN01\JTRAX\CASEDOCS\B-100665\B-100665 ECF-20131

11/19/2013