

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100402 Analyst Brandi Barnett Start Date 5/1/14
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 00813020A1 Exp 3/1/15
 ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 3/1/15
 iii. 0.080g/210L Mnf ILMO Lot 11313080A1 Exp 6/1/15
 iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15
 v. 0.200g/210L Mnf Guth Lot 12120 Exp 8/10/14
 1. Simulator S/N DR4176 Date Calibrated 11/1/13
 vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15
 1. Simulator S/N DR4163 Date Calibrated 11/4/13

5. Functional Tests (attached)

- a. Incomplete ☒
 b. Invalid ☒
 c. Interference ☒
 i. Acetone - Mnf Guth Lot 13010 Level 0.100 Exp 9/1/15
 1. Simulator S/N Guth DR4167 Date Calibrated 11/1/13
 ii. Isopropanol - Mnf Guth Lot 13010 Level 0.100 Exp 9/1/15
 1. Simulator S/N DR6267 Date Calibrated 11/5/13
 iii. Negative Control - Mnf Guth Lot 13010 Level 0.100 Exp 9/1/15
 1. Simulator S/N DR4177 Date Calibrated 11/5/13

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 ☒ N/A

End Date 5/5/14

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 05/01/2014
Time: 14:27:04

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 47.0°C	PASSED

PUMP INFO

Flow Rate = 4.725 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
-------------------	--------

Technician Screen

DATAMASTER dnt: 100402

Date: 05/01/2014

Time: 2:32 PM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 47.7°C

Current Barometer 30.3 in

Volume (Ltr) 1.45

Settings

Lamp: 1.85 V

Bias: 80 V

Cooler: 1.59 V

Chopper: 536 Hz

Voltages (V)

Flow: 1.04 V

Detector: 0.072 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 06/01/2011
Time: 08:56:02

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: REPC0100
BOTTLE #: 10003
EXPIRATION: 09/08/2012

Ca	=	0.1000		
CAL	=	0.966299	0.800	<= CAL < 1.200
b1	=	0.0006	0.0000	<= b1 < 0.0040
b2	=	0.0054	0.0010	<= b2 < 0.0100
b3	=	0.0002	0.0000	<= b3 < 0.0040
Xq	=	0.0785	0.0500	<= Xq < 0.2000
a21	=	1.174059	1.050	<= a21 < 1.300
a31	=	0.375916	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 05/01/2014
Time: 14:33:08

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

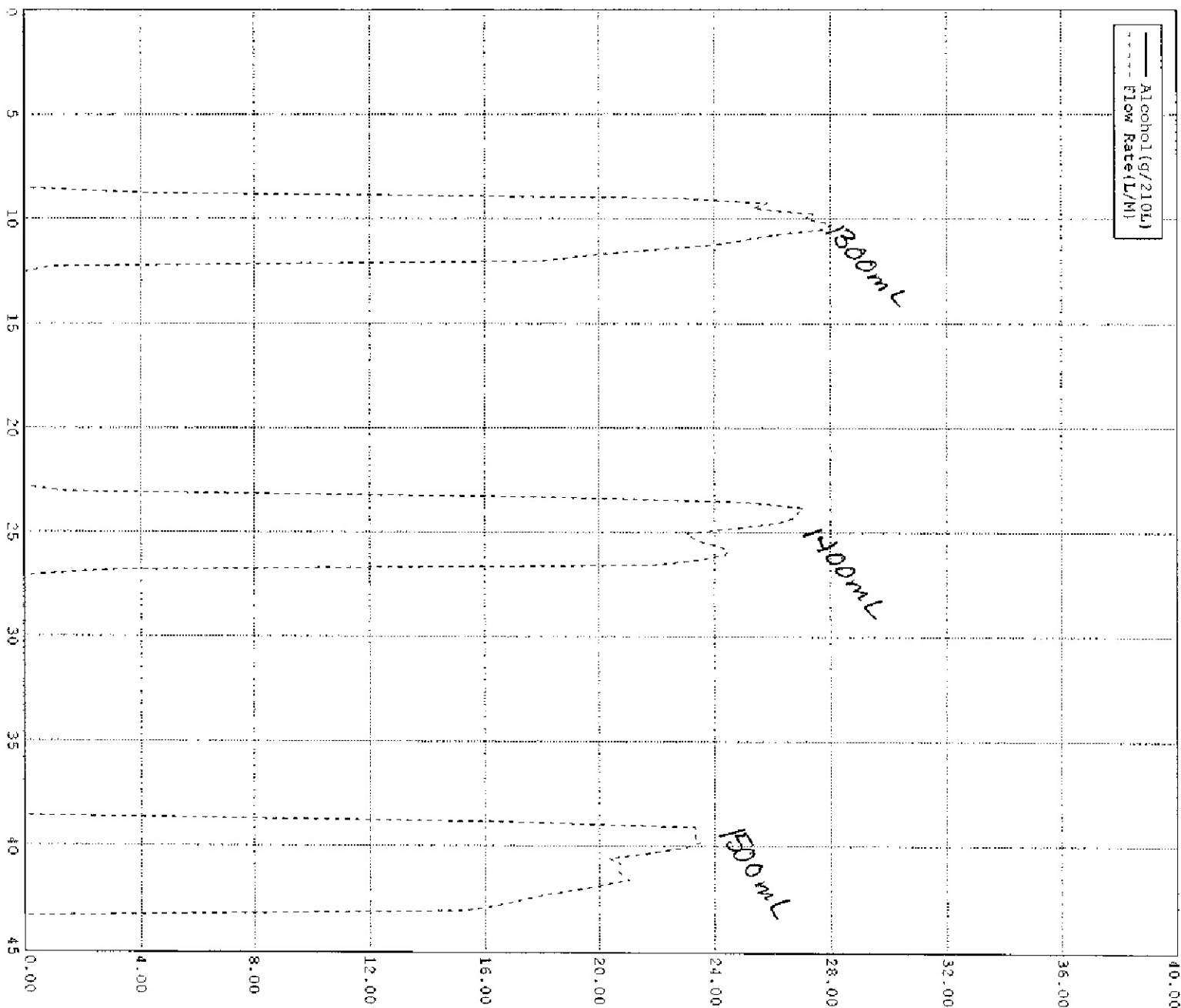
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.26: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:34
BLANK TEST	0.000	14:34
INTERNAL STANDARD	VERIFIED	14:34
EXTERNAL STANDARD	0.081	14:34
BLANK TEST	0.000	14:35
SUBJECT SAMPLE	0.000	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.081	14:37
BLANK TEST	0.000	14:38

BBMB



LINEARITY CHECK

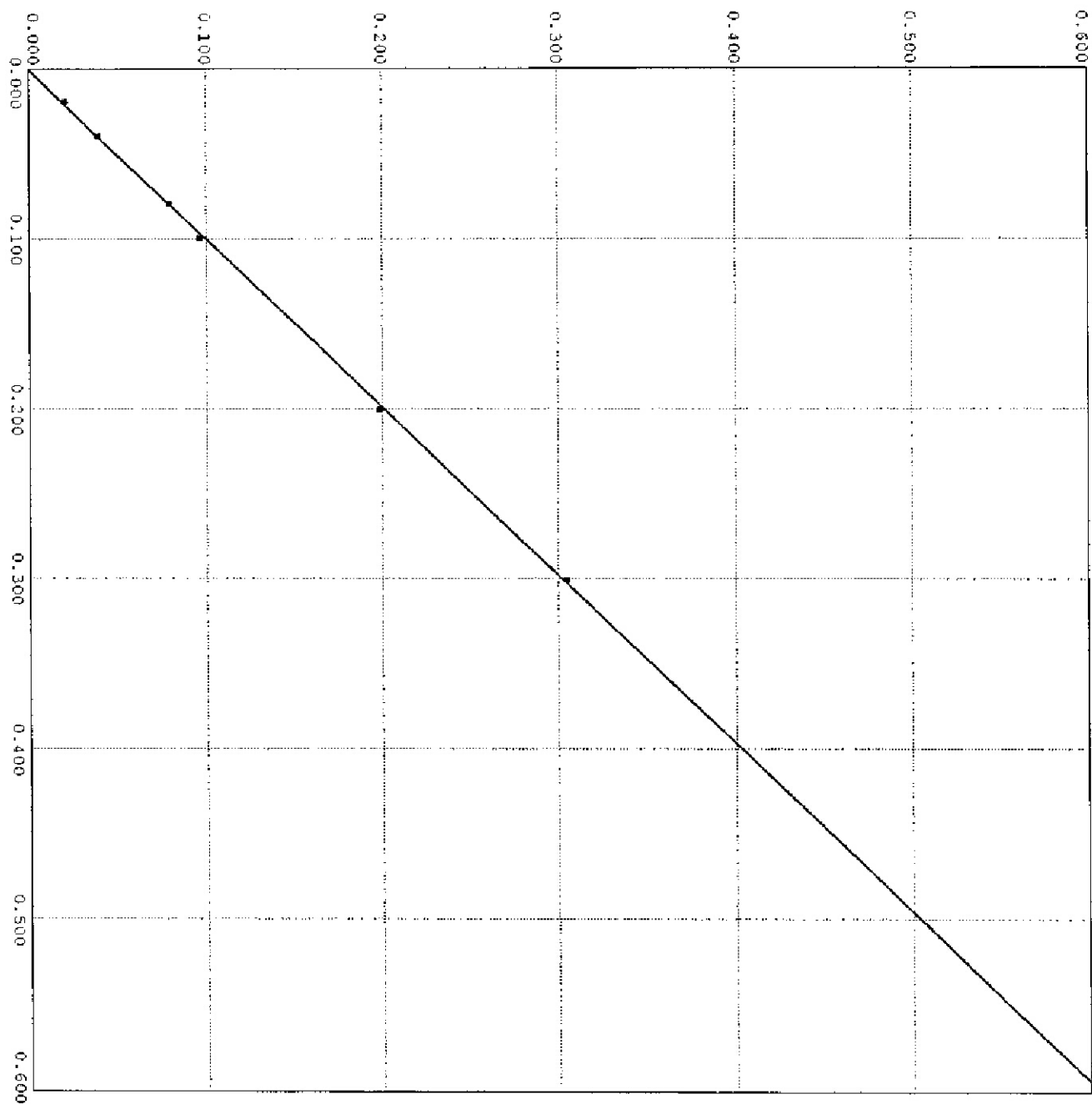
Alaska Department of Public Safety
 DATA MASTER dmt: 100402

Date: 05/02/2014
 Time: 13:50:15

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0210	0.0002
0.039	0.0401	0.0003
0.079	0.0801	0.0001
0.099	0.0973	0.0004
0.200	0.1996	0.0007
0.300	0.3035	0.0005

SLOPE = 1.010978
 R^2 = 0.999614



BBMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100402

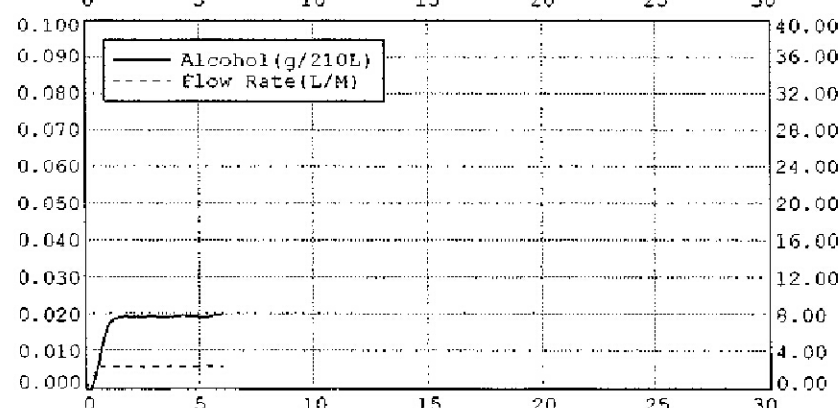
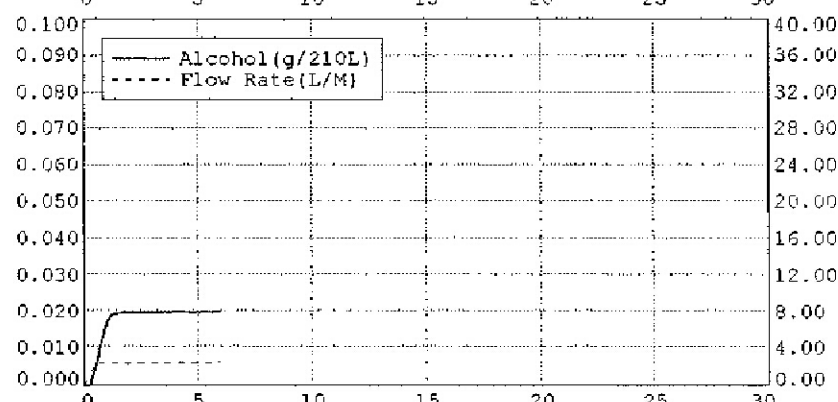
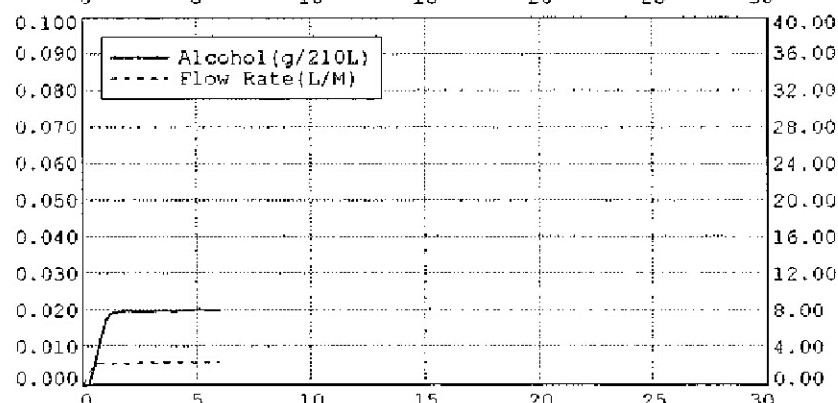
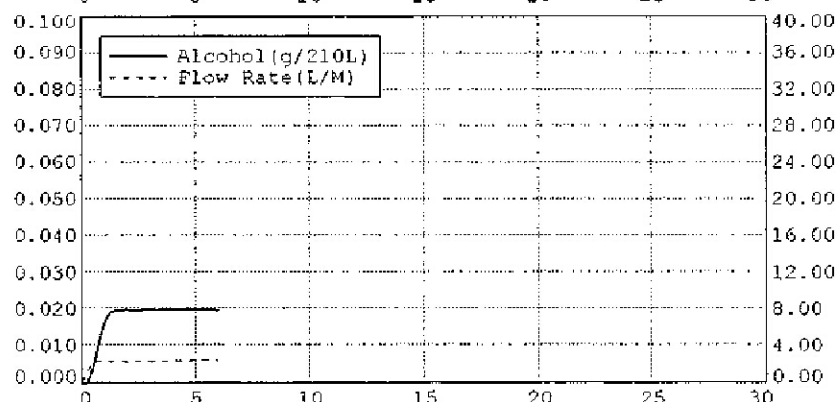
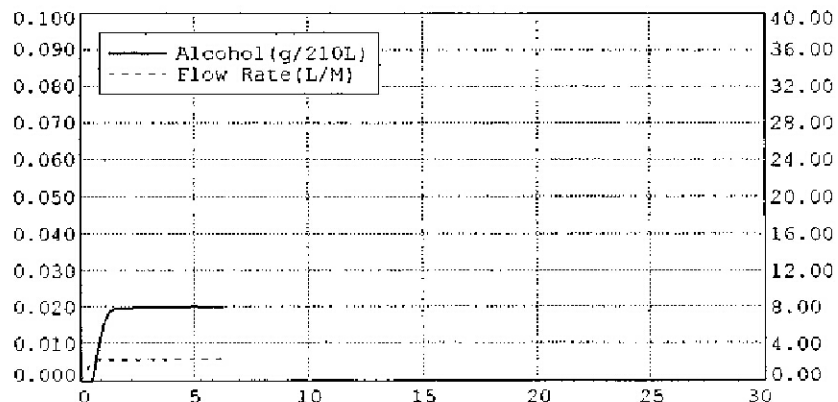
Date: 05/02/2014
Time: 13:50:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.90: 0.019
LOT #: 00813020A1
EXPIRATION: 03/01/2015

BLANK TEST	0.000	13:51
INTERNAL STANDARD	VERIFIED	13:51
EXTERNAL STANDARD	0.021	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.020	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.021	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.020	13:54
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.020	13:56
BLANK TEST	0.000	13:56

Average = 0.0210
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

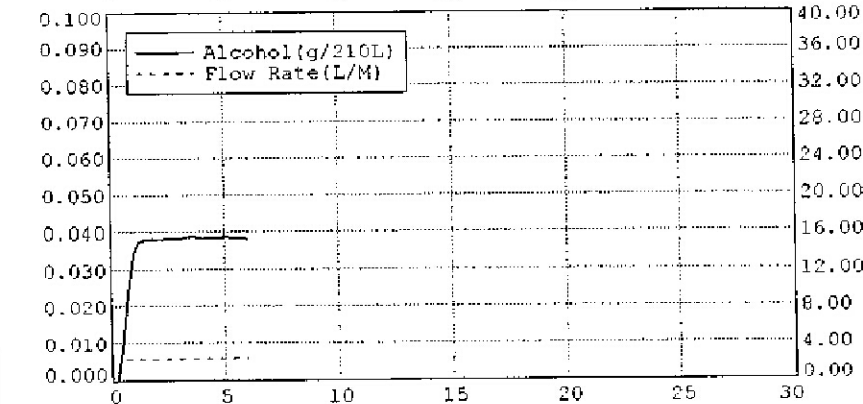
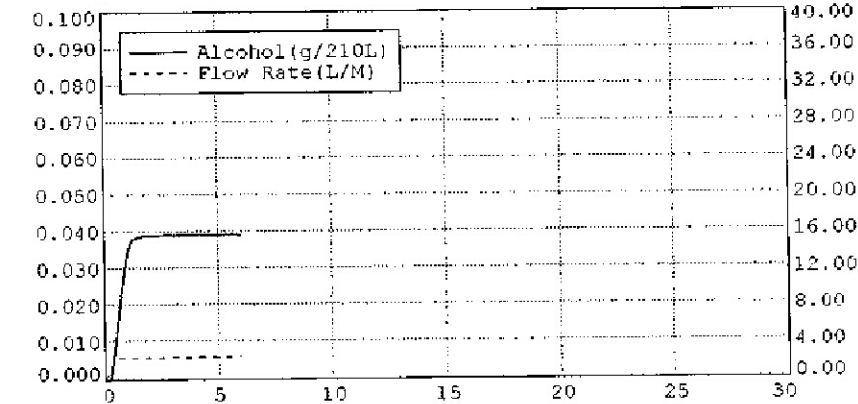
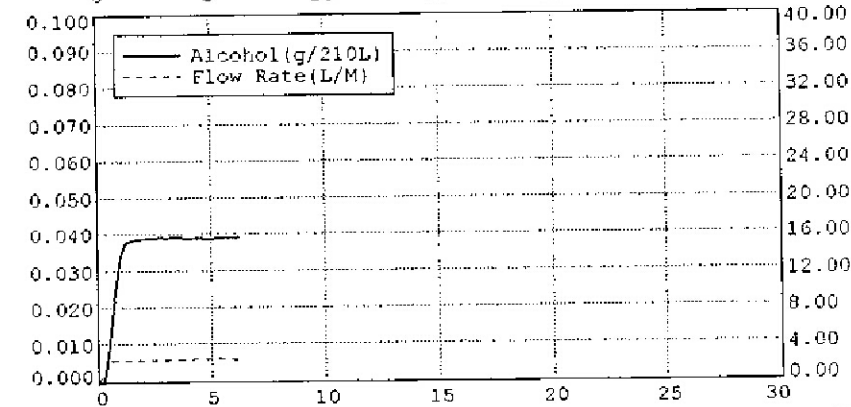
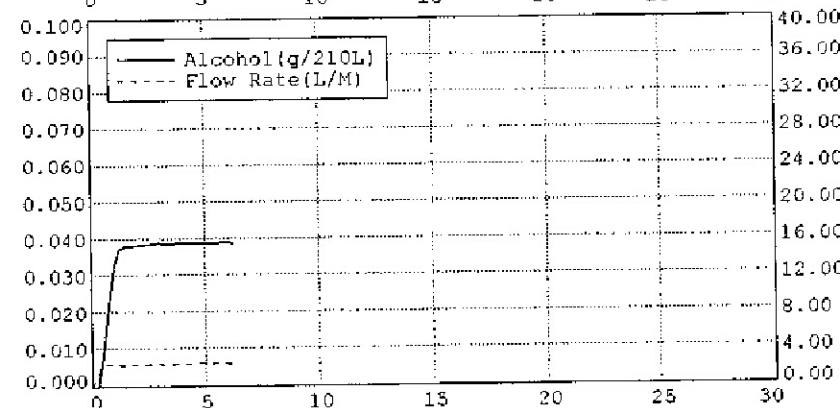
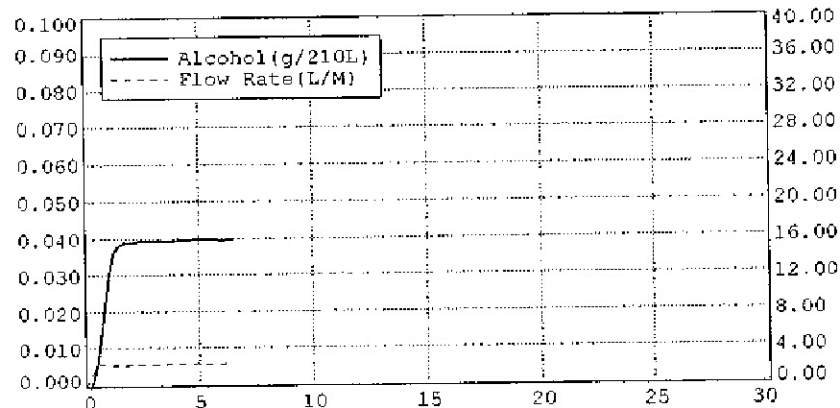
Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 05/02/2014
Time: 13:58:29

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.90: 0.039
LOT #: 00813040A2
EXPIRATION: 03/01/2015

BLANK TEST	0.000	13:59
INTERNAL STANDARD	VERIFIED	13:59
EXTERNAL STANDARD	0.040	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.040	14:01
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.039	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.040	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.039	14:04
BLANK TEST	0.000	14:05

Average = 0.0401
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

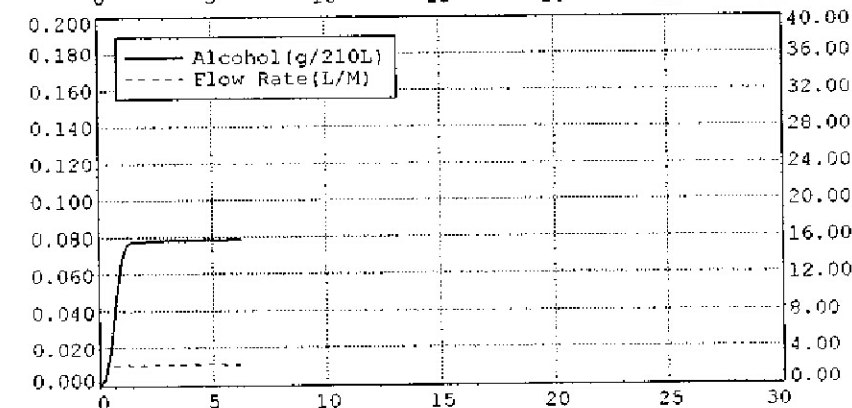
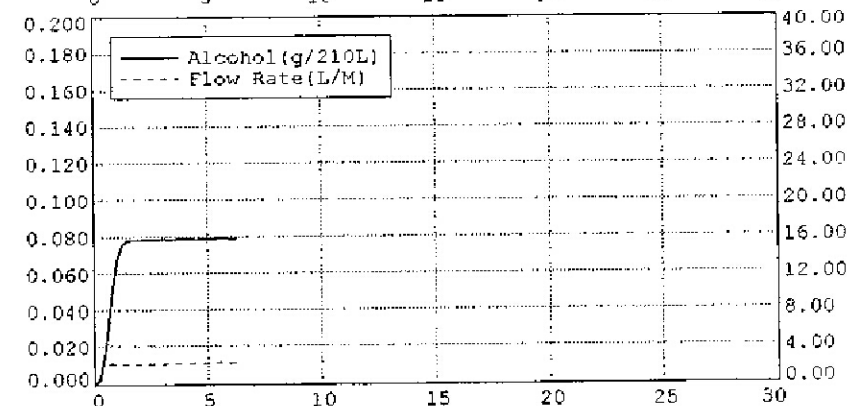
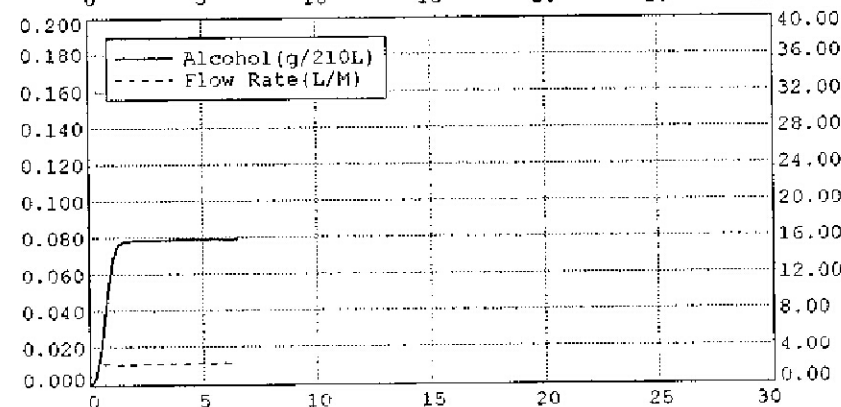
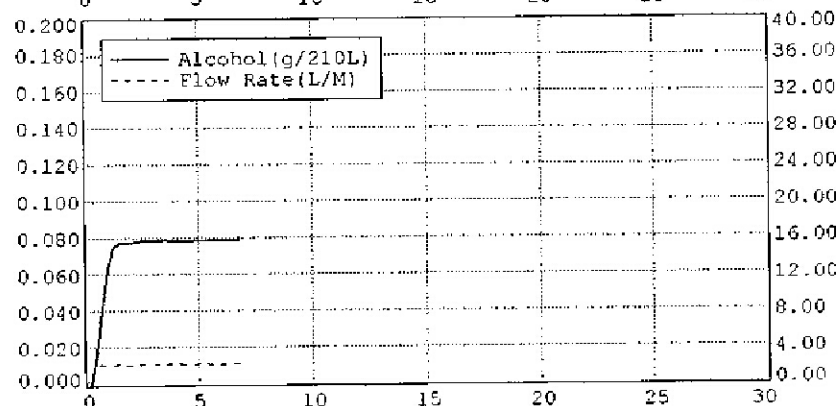
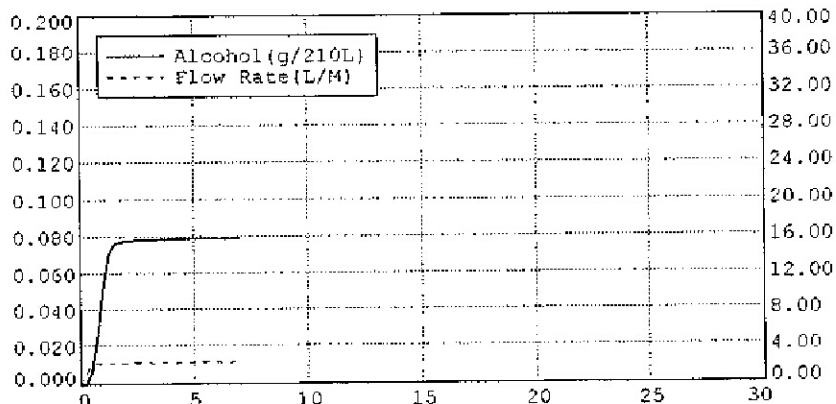
Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 05/02/2014
Time: 14:11:48

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.89: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:13
EXTERNAL STANDARD	0.080	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.080	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.080	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.080	14:16
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.080	14:17
BLANK TEST	0.000	14:18

Average = 0.0801
Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100402

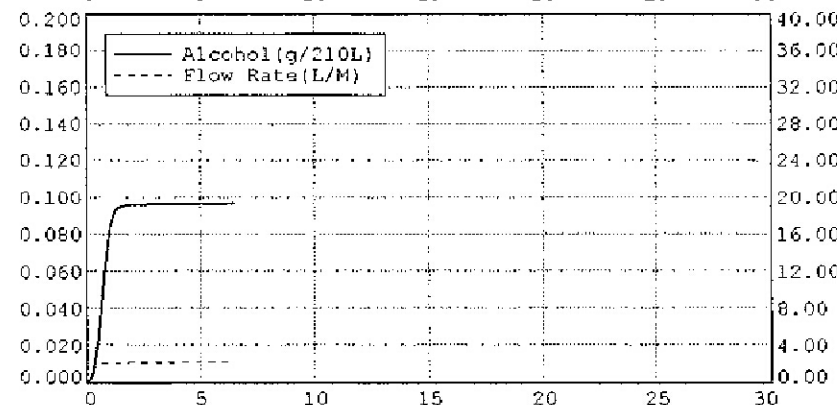
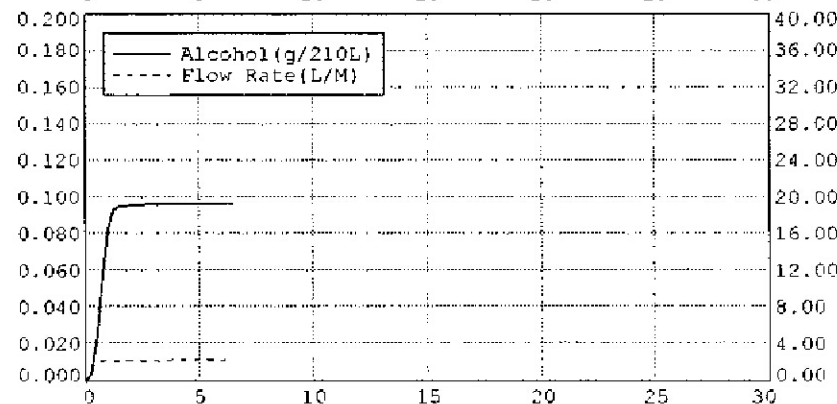
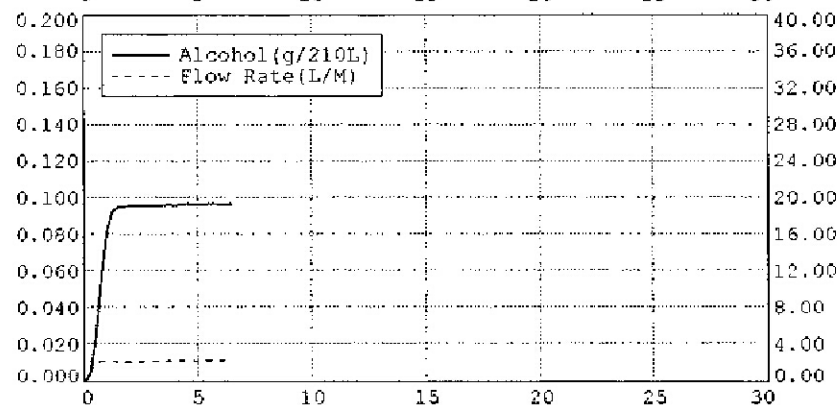
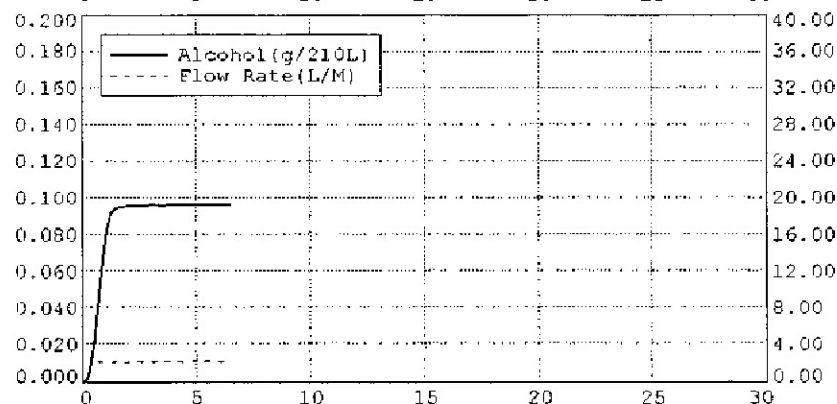
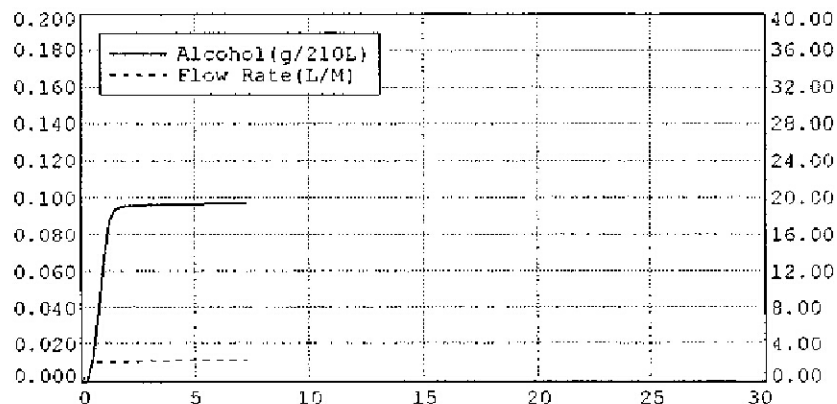
Date: 05/02/2014
Time: 14:30:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.89: 0.099
LOT #: 00813100A3
EXPIRATION: 03/01/2015

BLANK TEST	0.000	14:31
INTERNAL STANDARD	VERIFIED	14:31
EXTERNAL STANDARD	0.098	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.097	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.097	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.097	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.097	14:36
BLANK TEST	0.000	14:37

Average = 0.0973
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 05/02/2014
Time: 14:39:01

EXTERNAL STANDARD INFORMATION

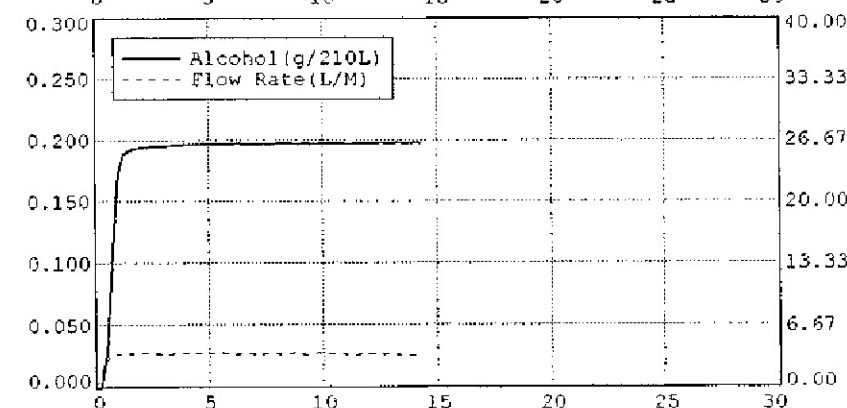
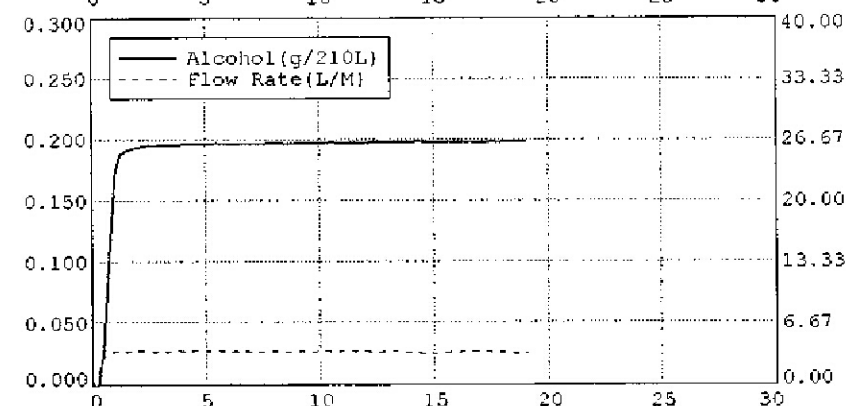
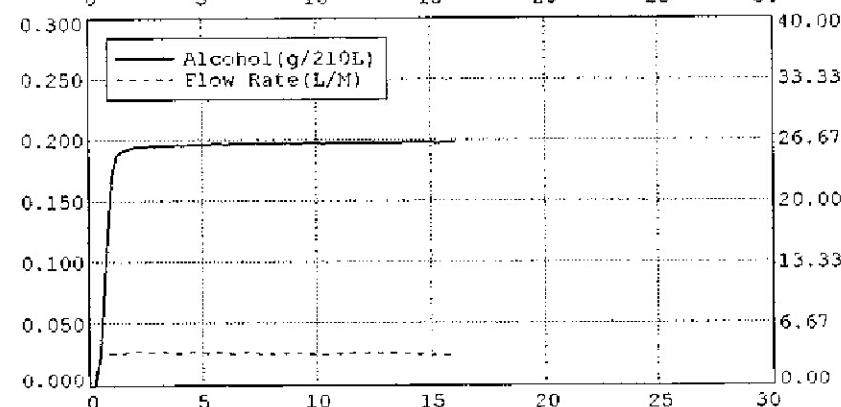
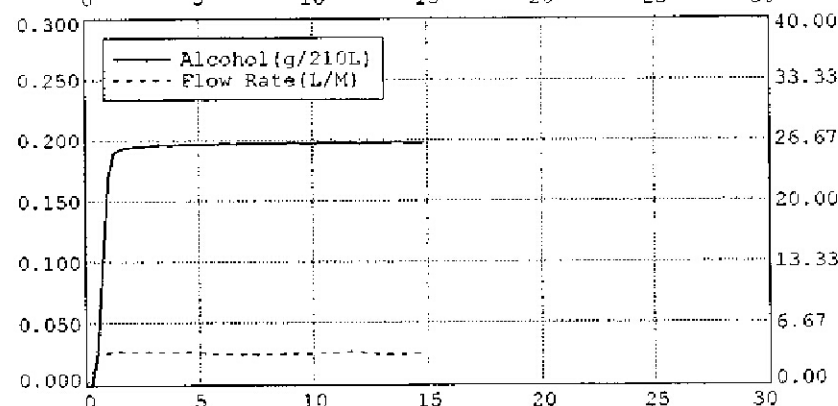
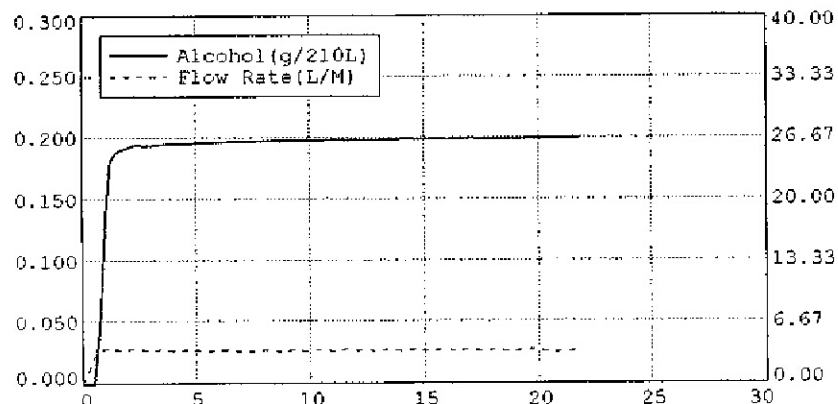
NOMINAL: 0.200

LOT #: 12120

EXPIRATION: 08/10/2014

BLANK TEST	0.000	14:40
INTERNAL STANDARD	VERIFIED	14:40
EXTERNAL STANDARD	0.200	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.199	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.198	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.199	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.199	14:45
BLANK TEST	0.000	14:46

Average = 0.1996
Std Dev = 0.0007



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100402

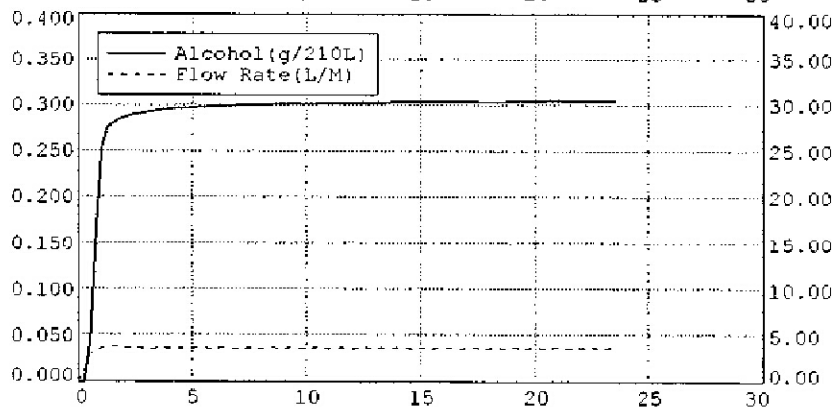
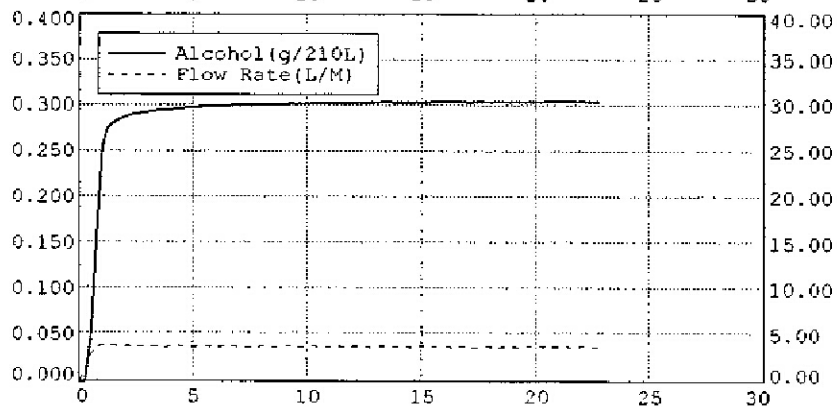
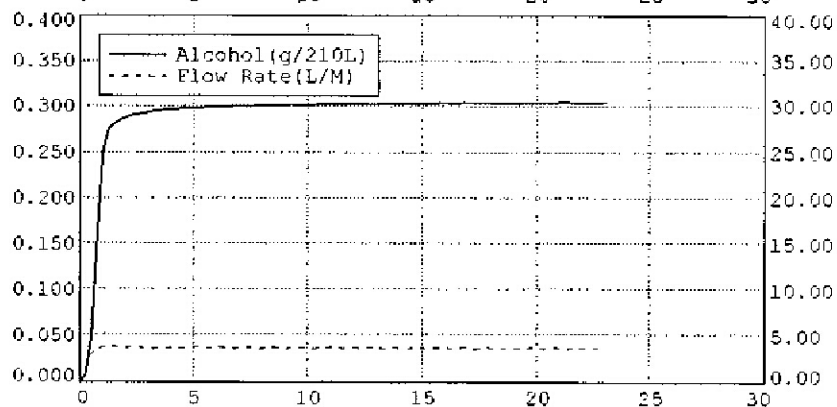
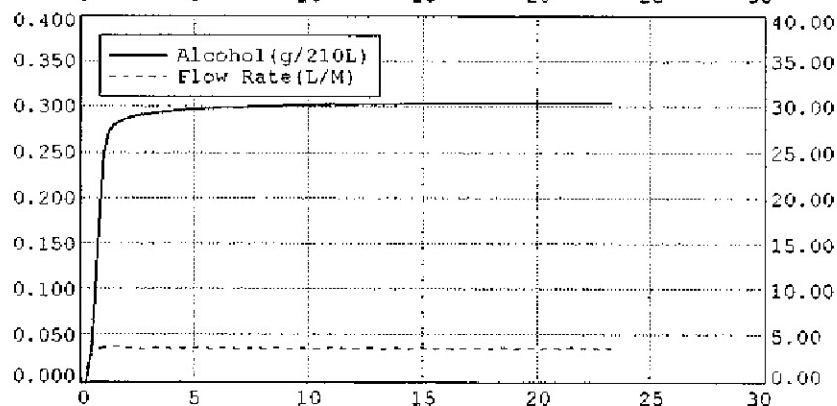
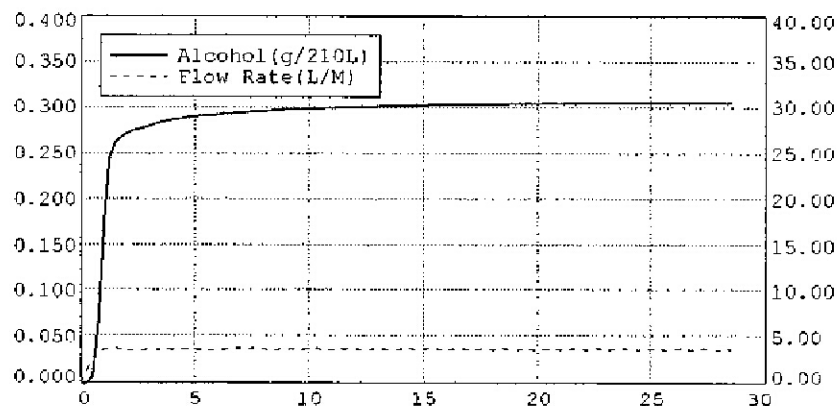
Date: 05/02/2014
Time: 14:51:10

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 13080
EXPIRATION: 03/19/2015

BLANK TEST	0.000	14:52
INTERNAL STANDARD	VERIFIED	14:52
EXTERNAL STANDARD	0.306	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.305	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.305	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.304	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.305	14:58
BLANK TEST	0.000	14:59

Average = 0.3055
Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100402

Date: 05/01/2014

Time: 14:39:35

SUBJECT NAME:

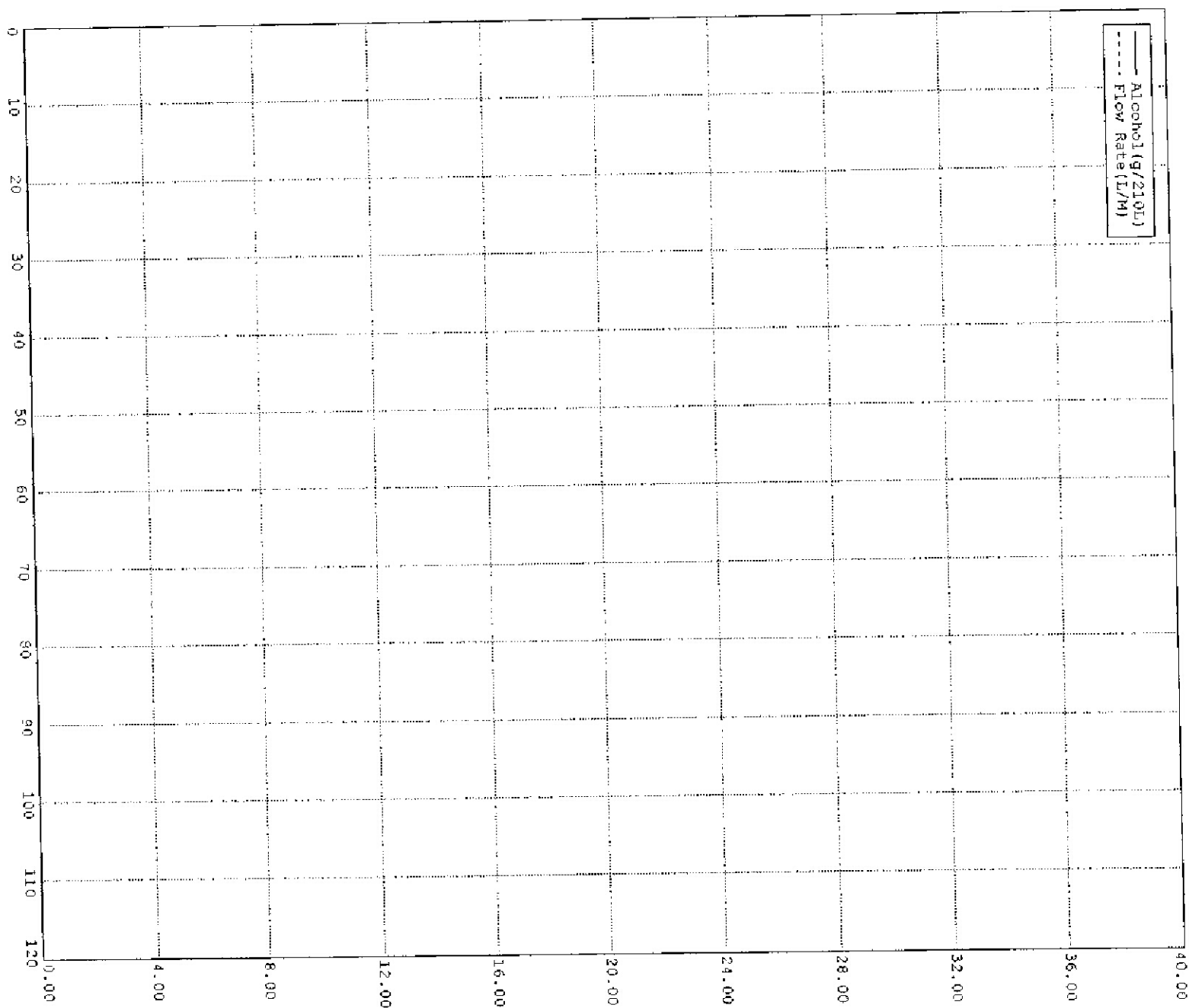
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INCOMPLETE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.26: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

	PASSED	14:40
DIAGNOSTIC CHECK	0.000	14:40
BLANK TEST	VERIFIED	14:40
INTERNAL STANDARD	0.081	14:41
EXTERNAL STANDARD	0.000	14:41
BLANK TEST	INCOMPLETE	14:44
SUBJECT SAMPLE		

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100402

Date: 05/01/2014
Time: 14:46:03

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

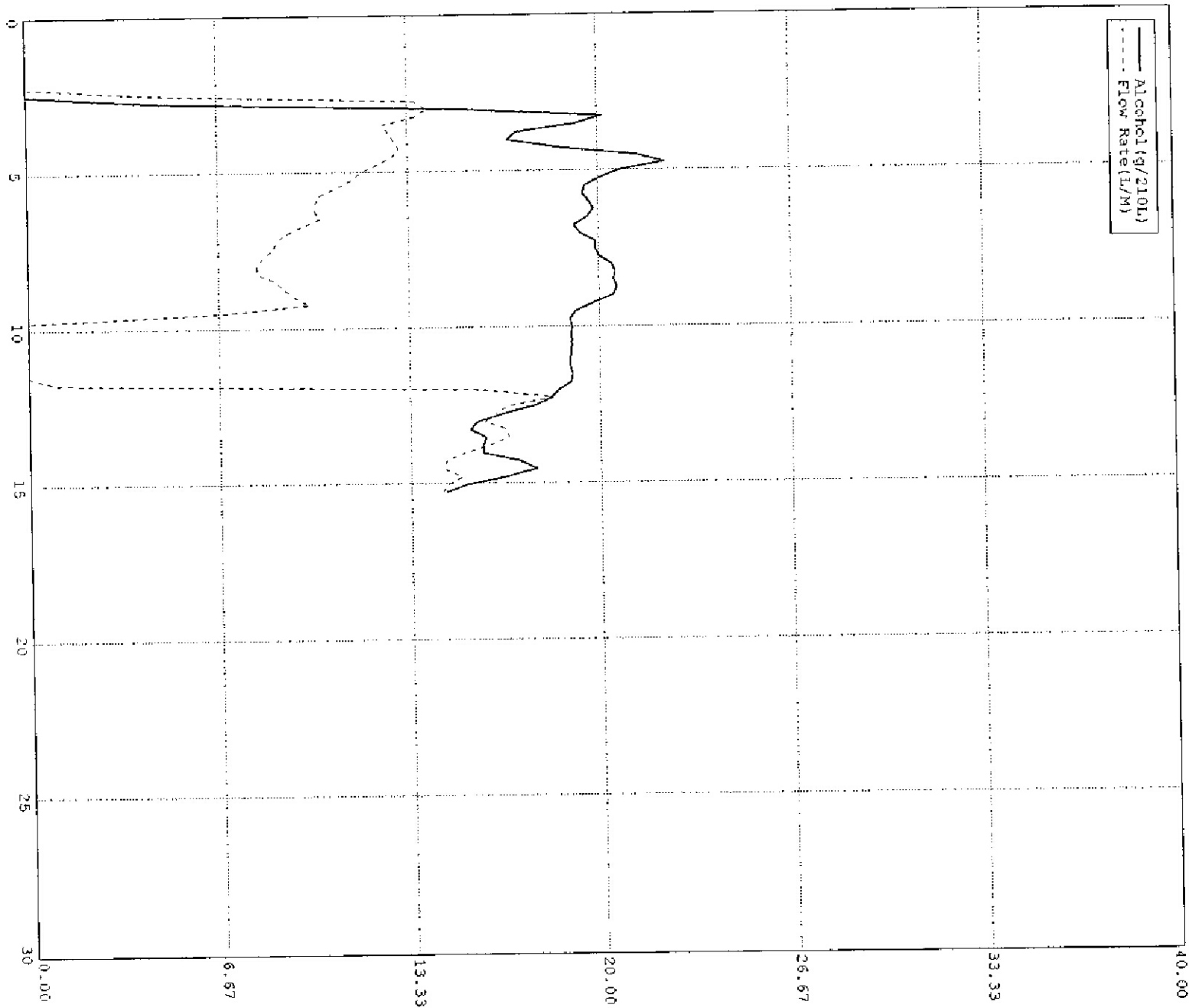
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.25: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:47
BLANK TEST	0.000	14:47
INTERNAL STANDARD	VERIFIED	14:47
EXTERNAL STANDARD	0.081	14:48
BLANK TEST	0.000	14:49
SUBJECT SAMPLE	INVALID	14:49

Brandi Barnett



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

Date: 05/02/2014
 Time: 15:11:32

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

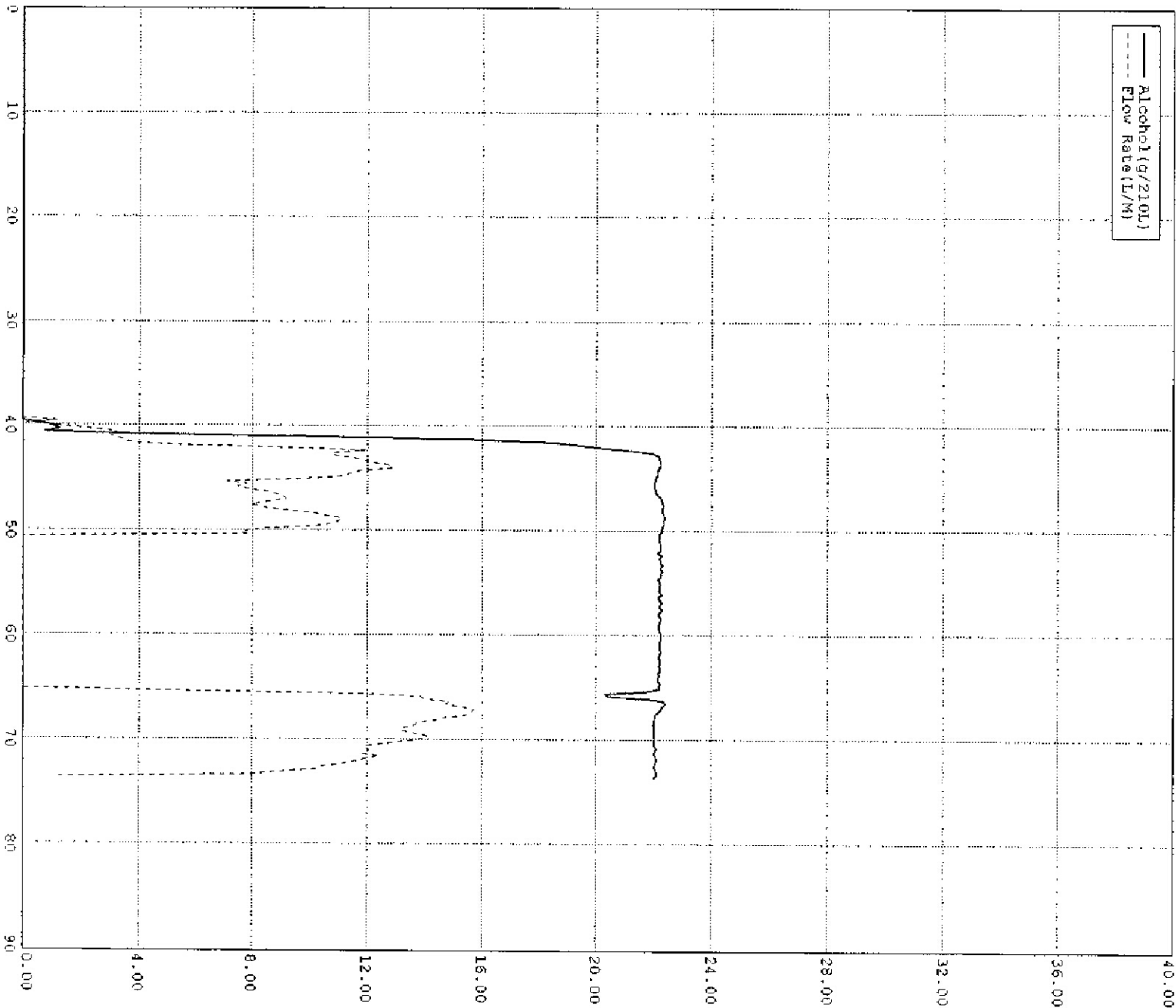
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 INTERREFERENCE ACEFONE
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.87: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:12
BLANK TEST	0.000	15:12
INTERVAL STANDARD	VERIFIED	15:12
Xq = 0.080 (2.21%)		
EXTERNAL STANDARD	0.080	15:13
X[1] = 0.0802 (-0.0006)	(0.0042)	
BLANK TEST	0.000	15:14
SUBJECT SAMPLE	INTERREFERENCE	15:15
X[1] = 0.1110 (-0.0145)	(0.0019)	

Handwritten signature: BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmc: 100402

Date: 05/02/2014
Time: 15:28:04

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
INTERFERENCE ISOPROPYL
CASE/REPORT: KXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.87: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

TEST TYPE	TIME	RESULT
DIAGNOSTIC CHECK	15:29	PASSED
BLANK TEST	15:29	0.000
INTERNAL STANDARD	15:29	VERIFIED
Xq = 0.080 (1.33%)		
EXTERNAL STANDARD	15:29	0.079
X[1] = 0.0796 (-0.0010)		(0.0039)
BLANK TEST	15:30	0.000
SUBJECT SAMPLE	15:31	INTERFERENCE
X[1] = 0.1191 (-0.0279)		(0.0014)

Handwritten signature: BMB



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100402

Date: 05/02/2014
 Time: 15:45:25

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

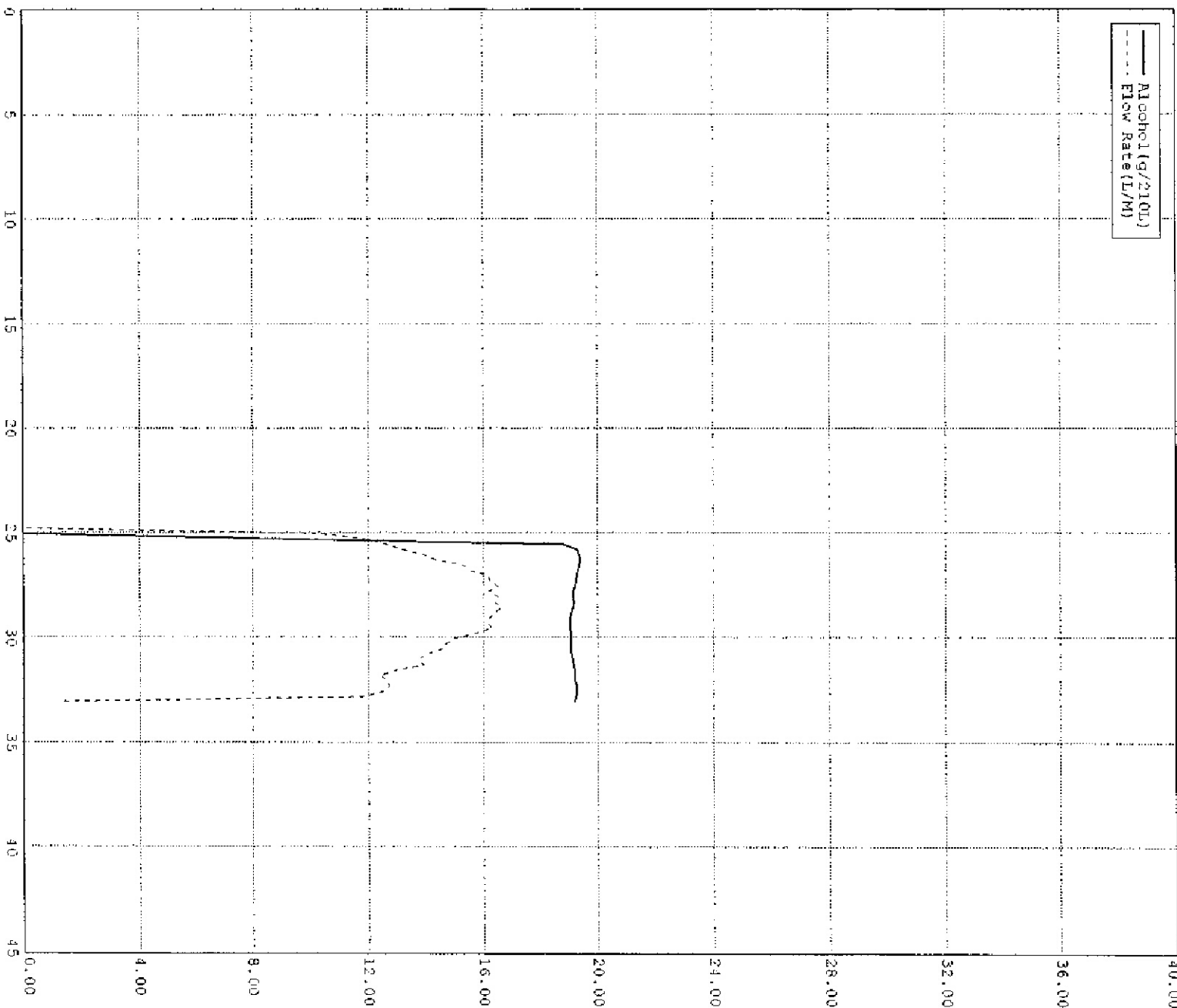
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 INTERREFERENCE NEGATIVE CONTROL
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.87: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:46
BLANK TEST	0.000	15:46
INTERNAL STANDARD	VERIFIED	15:46
Xg = 0.081 (2.65%)		
EXTERNAL STANDARD	0.080	15:47
X[1] = 0.0804 (-0.0010)	(0.0037)	
BLANK TEST	0.000	15:48
SUBJECT SAMPLE (Vol=1.94L)	0.096	15:48
X[1] = 0.0966 (-0.0016)	(0.0012)	
BLANK TEST	0.000	15:49
EXTERNAL STANDARD	0.079	15:49
X[1] = 0.0794 (-0.0015)	(0.0025)	
BLANK TEST	0.000	15:50

Handwritten signature: BMB

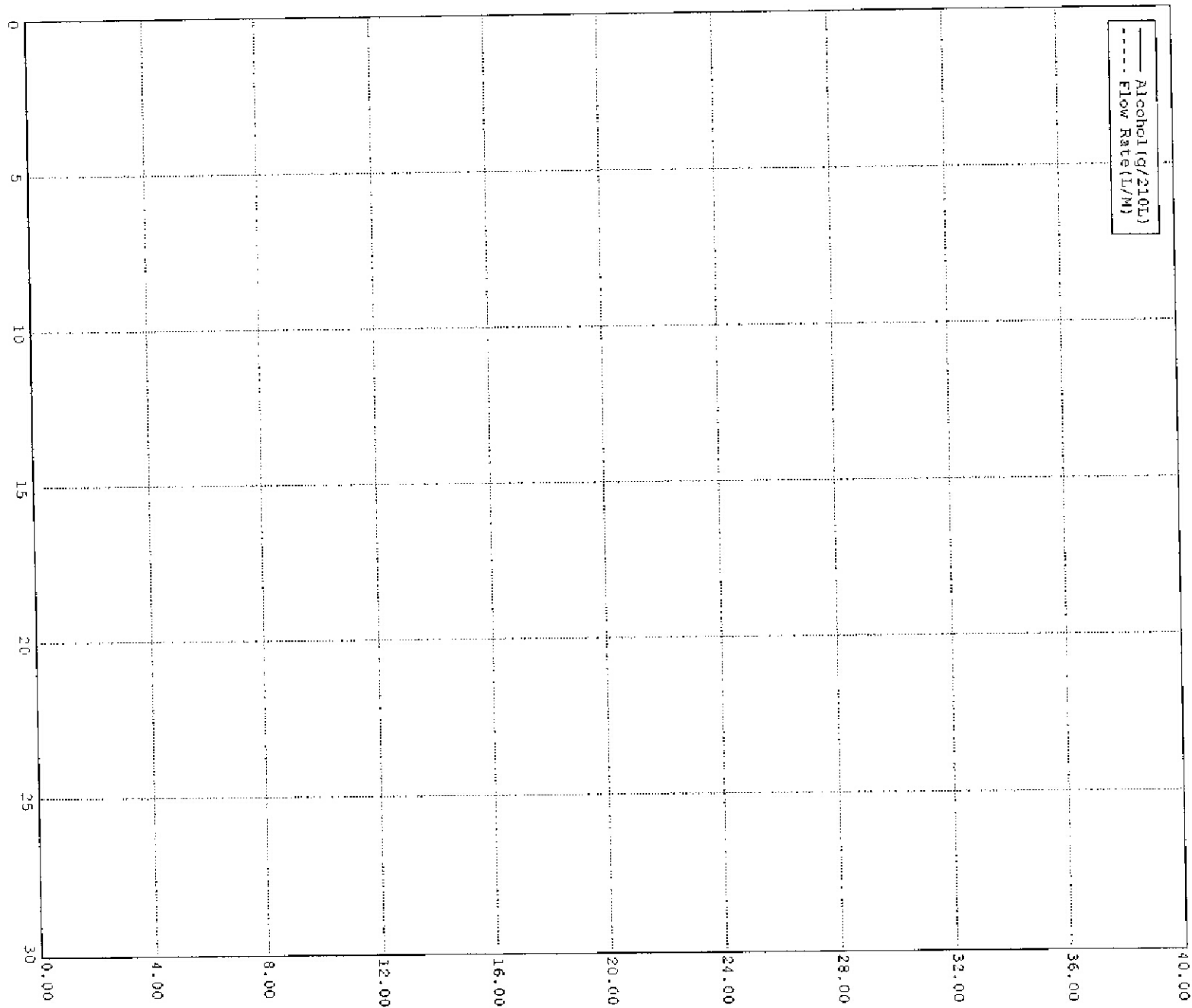


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402Date: 05/01/2014
Time: 14:53:10SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
RADIO FREQUENCY INTERFERENCE
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.25: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:55
BLANK TEST	0.000	14:55
INTERNAL STANDARD	VERIFIED	14:56
EXTERNAL STANDARD	0.081	14:56
BLANK TEST	0.000	14:57

RFI DETECTED

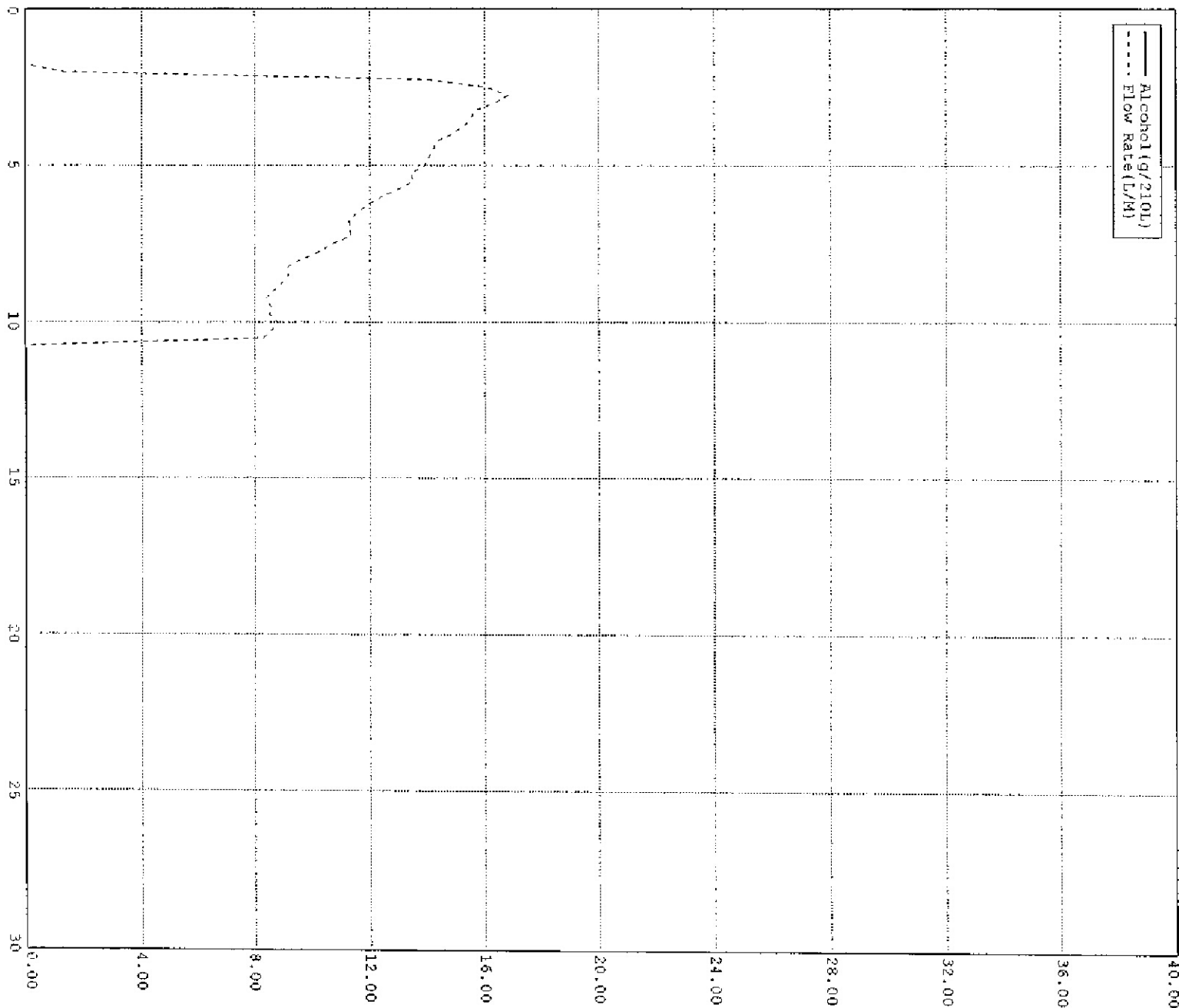


SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100402Date: 05/02/2014
Time: 16:23:02SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
NON DRINKING SUBJECT TEST
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.86: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	16:25
BLANK TEST	0.000	16:25
INTERNAL STANDARD	VERIFIED	16:25
EXTERNAL STANDARD	0.080	16:25
BLANK TEST	0.000	16:26
SUBJECT SAMPLE	0.000	16:27
BLANK TEST	0.000	16:27
EXTERNAL STANDARD	0.080	16:28
BLANK TEST	0.000	16:29

BMB



Final page for report

\

\\ANCSCLSAN01\JTRAX\CASEDOCS\B-100402\B-100402 ECF-20140

7/9/2014