

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100391 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 1600 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 00813060A1 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 DR4183 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 DR4162 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 A

End Date 5/5/14

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100391

Date: 05/01/2014
Time: 12:57:56

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 46.9°C PASSED

PUMP INFO

Flow Rate = 4.611 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: 100391

Date: 05/01/2014
Time: 1:41 PM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 47.4°C

Current Barometer 30.3 in
Volume (Ltr) 1.59

Settings

Lamp: 1.72 V
Bias: 80 V
Cooler: 1.64 V
Chopper: 536 Hz

Voltages (V)

Flow: 1.05 V
Detector: -0.018 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100391

Date: 07/26/2011
Time: 15:18:00

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

LOT #: 11050
BOTTLE #: 481
EXPIRATION: 04/06/2013

Ca	=	0.1000			
CAL	=	0.972426	0.800	<=	CAL < 1.200
b1	=	0.0001	0.0000	<=	b1 < 0.0040
b2	=	0.0047	0.0010	<=	b2 < 0.0100
b3	=	0.0000	0.0000	<=	b3 < 0.0040
Xq	=	0.0883	0.0500	<=	Xq < 0.2000
a21	=	1.231540	1.050	<=	a21 < 1.300
a31	=	0.467870	0.300	<=	a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100391

Date: 05/01/2014
Time: 13:42:26

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

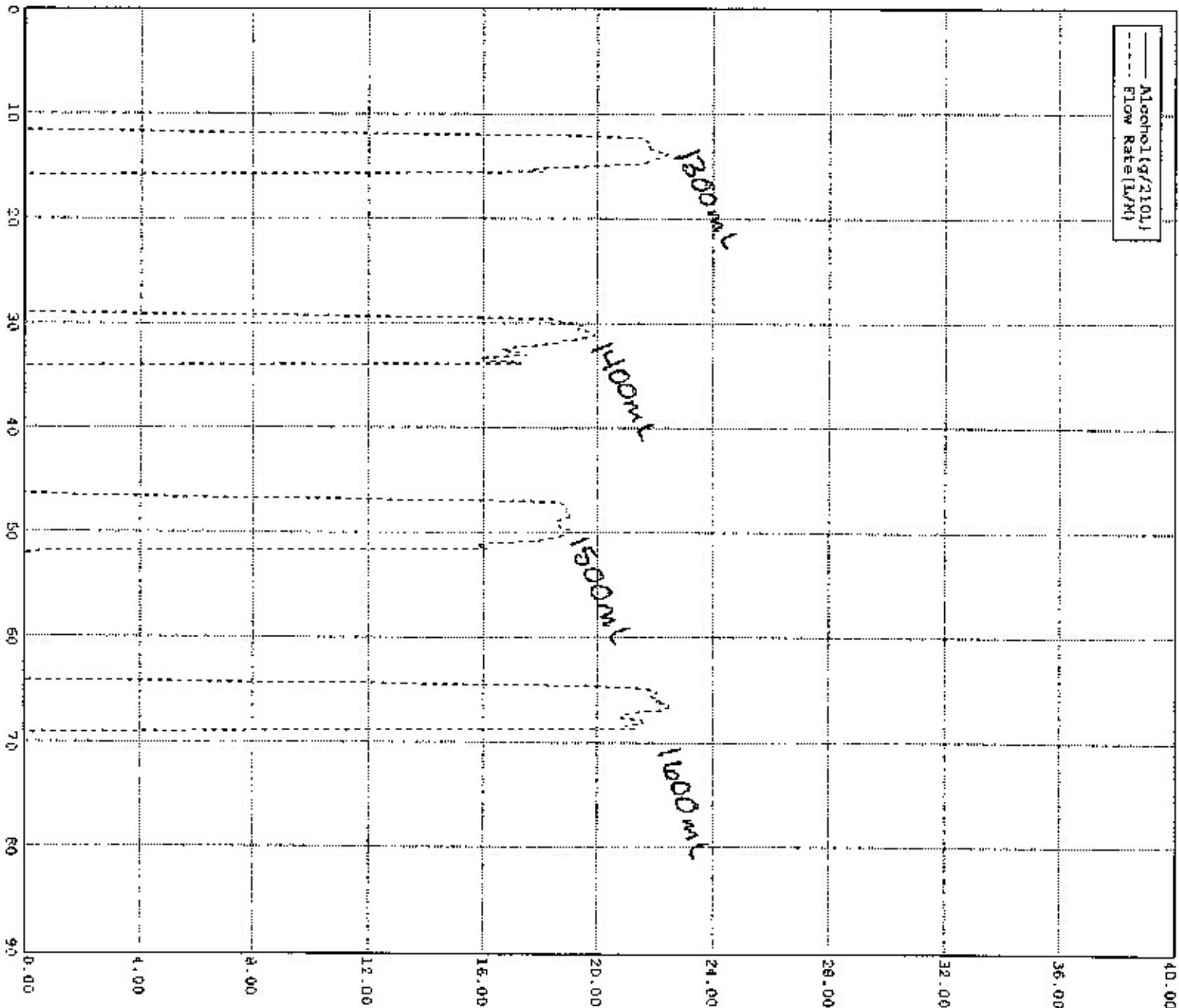
DEPT/AGENCY:
MINIMUM VOLUME TEST
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.27: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	13:43
INTERNAL STANDARD	VERIFIED	13:44
EXTERNAL STANDARD	0.082	13:44
BLANK TEST	0.000	13:45
SUBJECT SAMPLE	0.000	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.082	13:47
BLANK TEST	0.000	13:48

BMB



LINEARITY CHECK

Alaska Department of Public Safety
 DATASTAR dnt: 100391

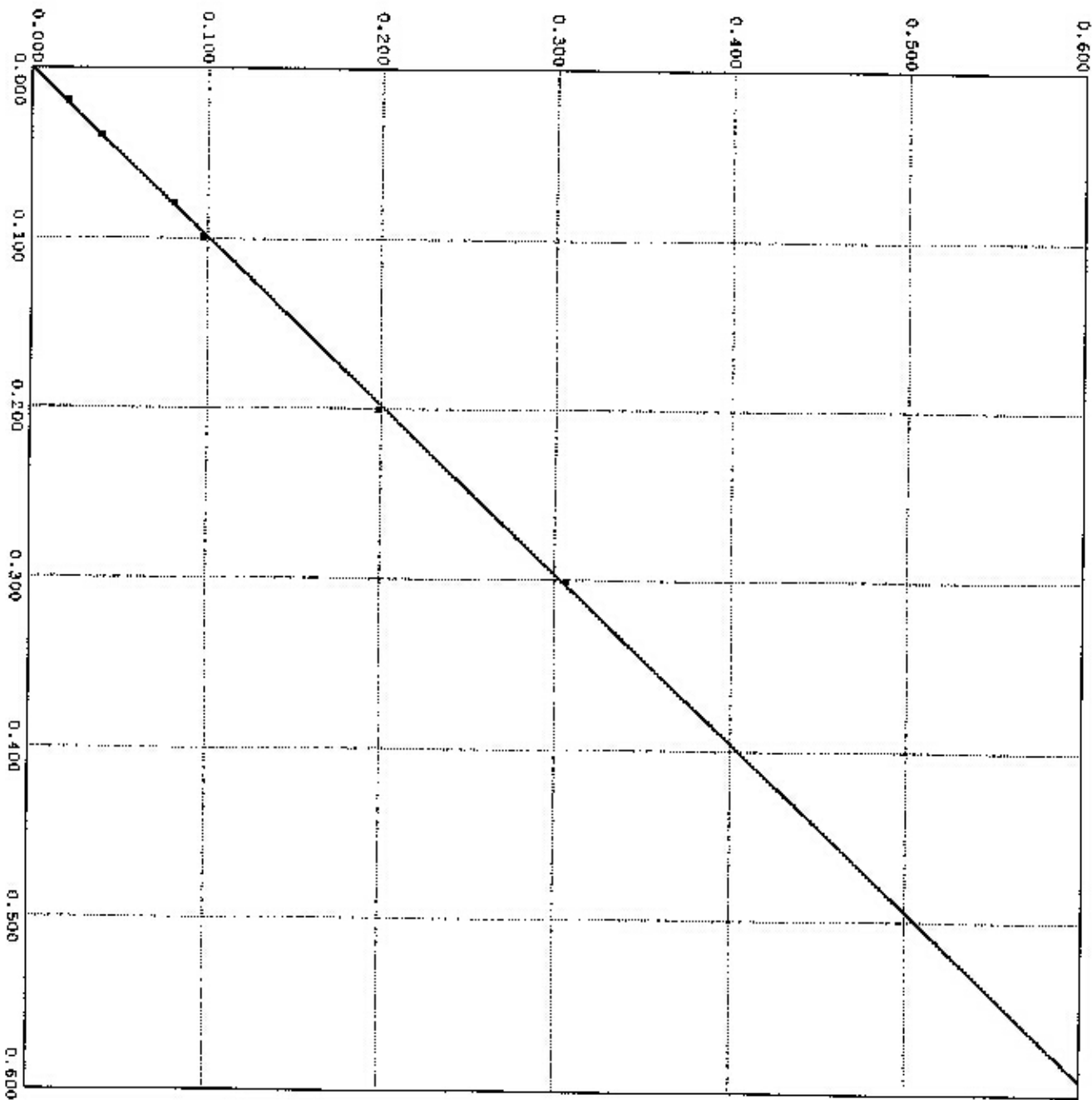
Date: 05/02/2014
 Time: 13:59:24

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0214	0.0003
0.039	0.0406	0.0002
0.079	0.0814	0.0002
0.099	0.0986	0.0003
0.200	0.1998	0.0003
0.300	0.3072	0.0002

SLOPE = 1.013352
 R² = 0.999538

BBMB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dnt: 100391

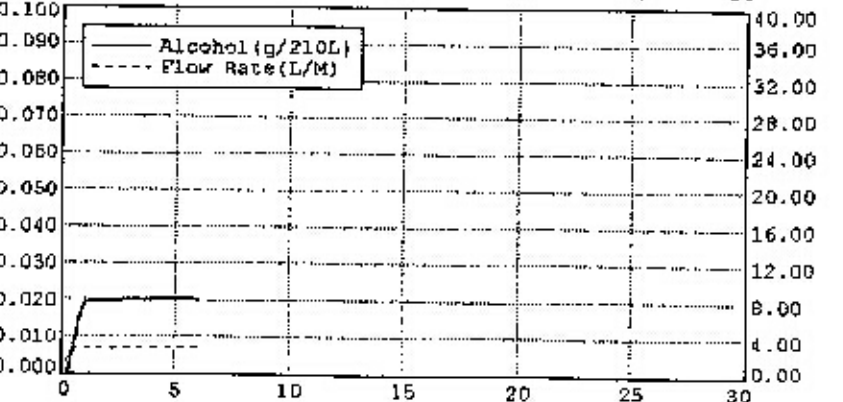
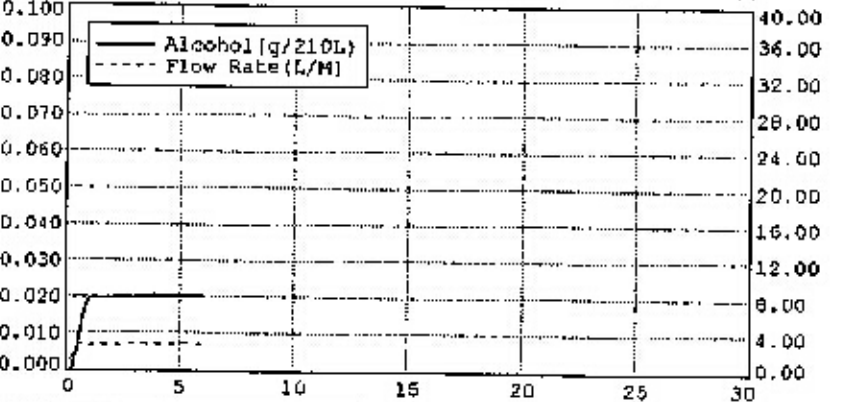
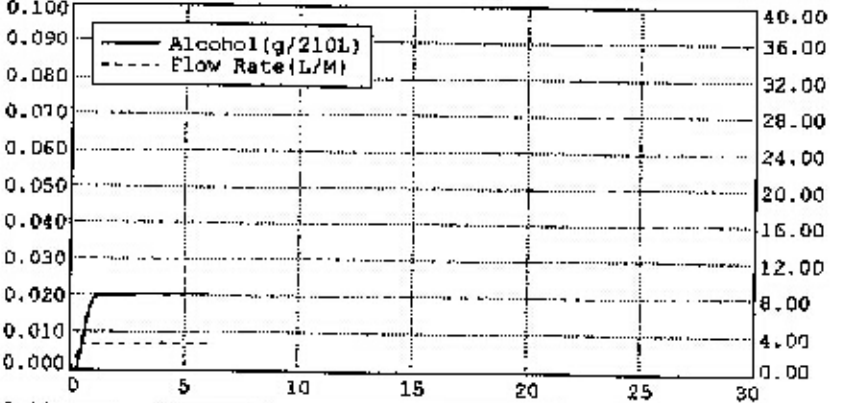
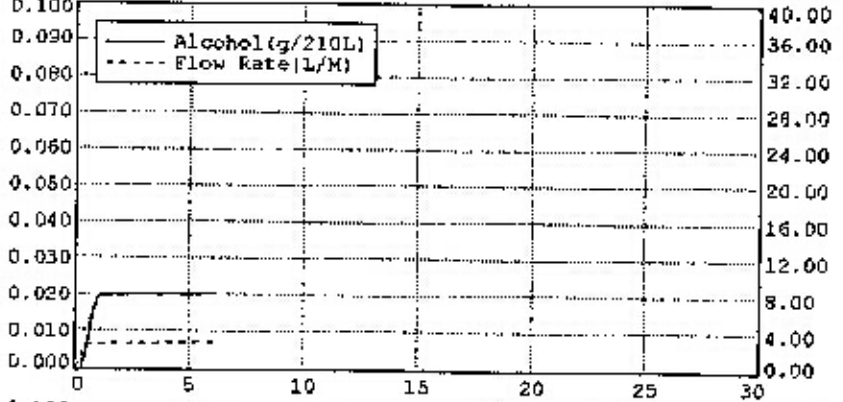
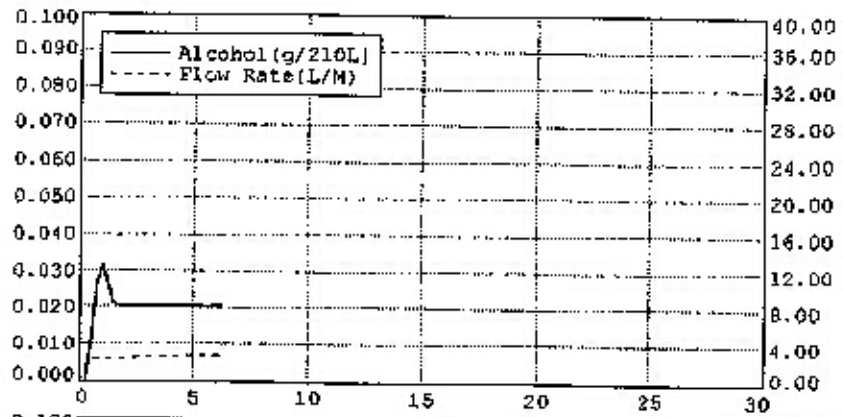
Date: 05/02/2014
 Time: 13:59:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.89: 0.019
 LOT #: 00813020A1
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	14:00
INTERNAL STANDARD	VERIFIED	14:00
EXTERNAL STANDARD	0.021	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.021	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.021	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.021	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.021	14:05
BLANK TEST	0.000	14:06

Average = 0.0214
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

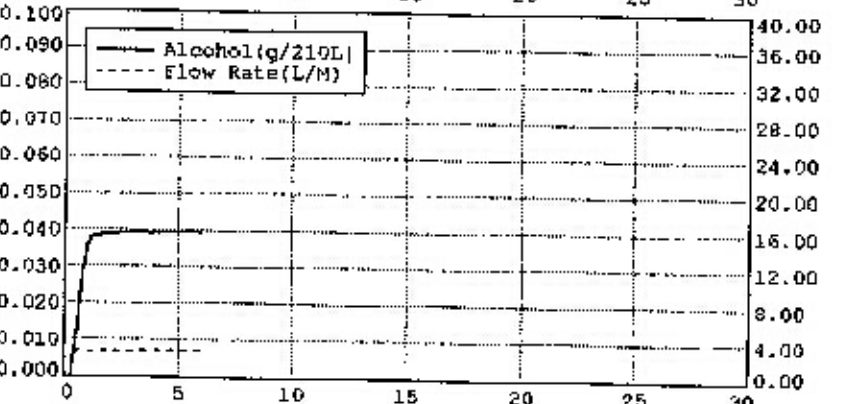
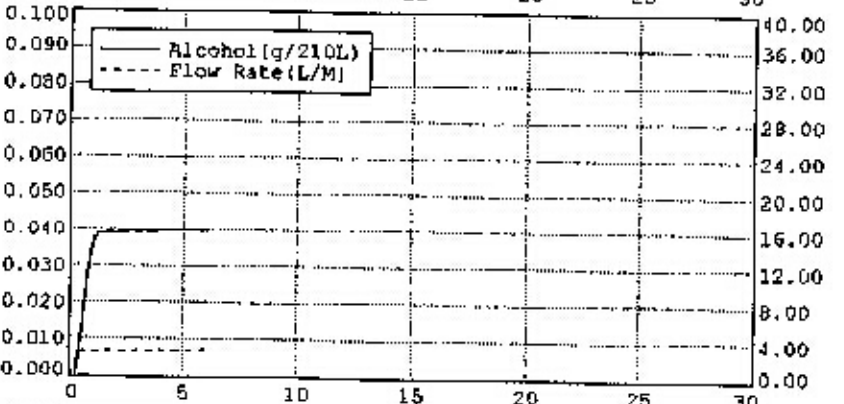
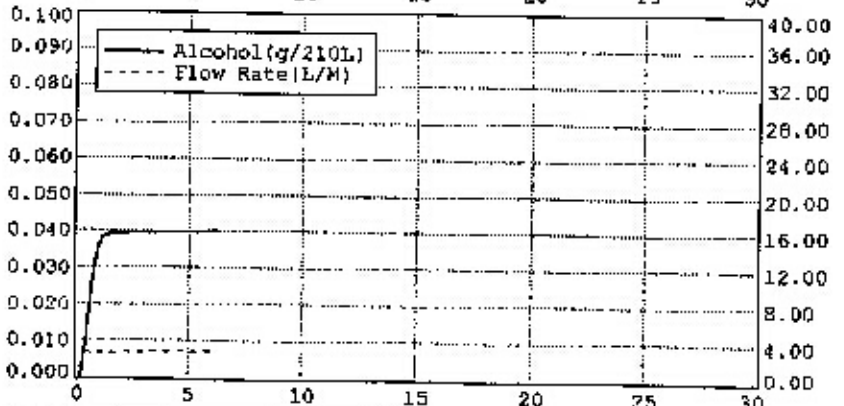
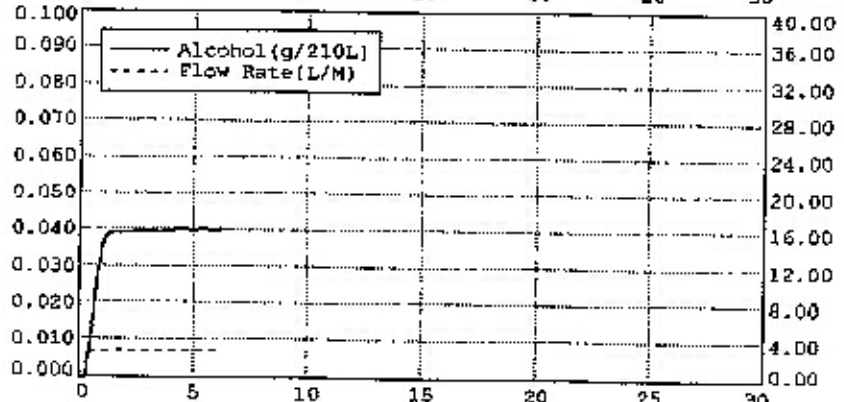
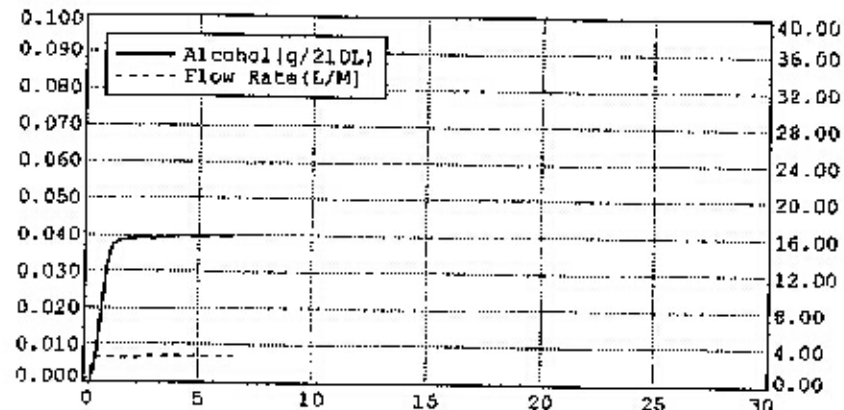
Alaska Department of Public Safety
 DATAMASTER dnt: 100391

Date: 05/02/2014
 Time: 14:13:20

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 29.89: 0.039
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	14:14
INTERNAL STANDARD	VERIFIED	14:14
EXTERNAL STANDARD	0.040	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.040	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.040	14:17
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.040	14:18
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.040	14:19
BLANK TEST	0.000	14:20

Average = 0.0406
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

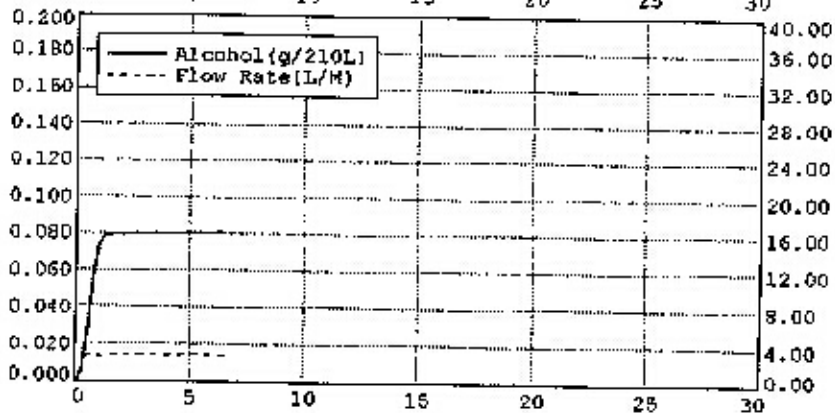
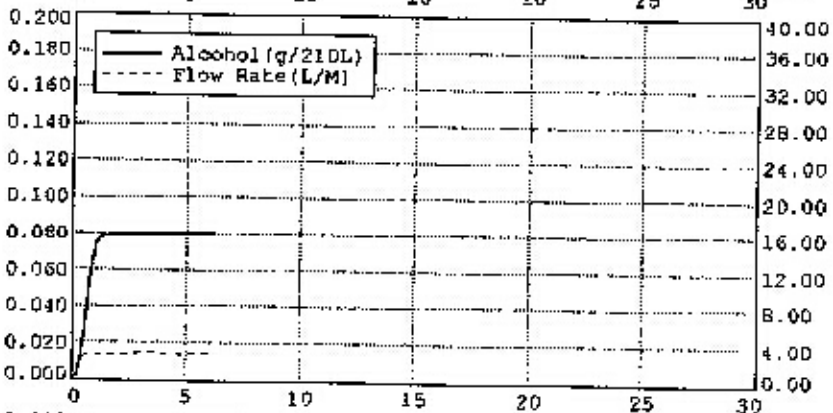
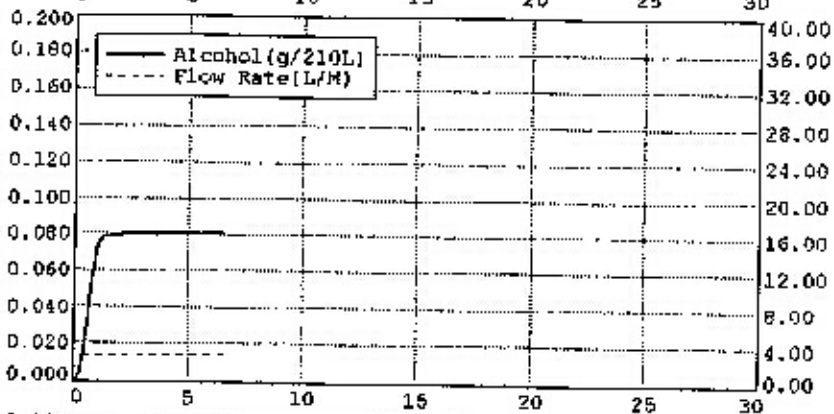
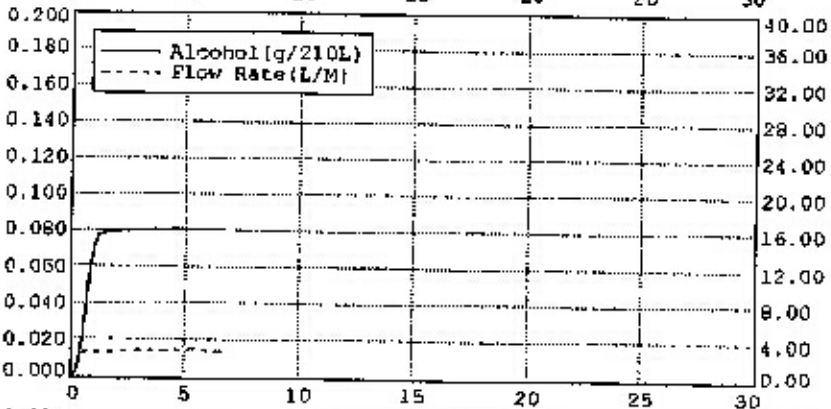
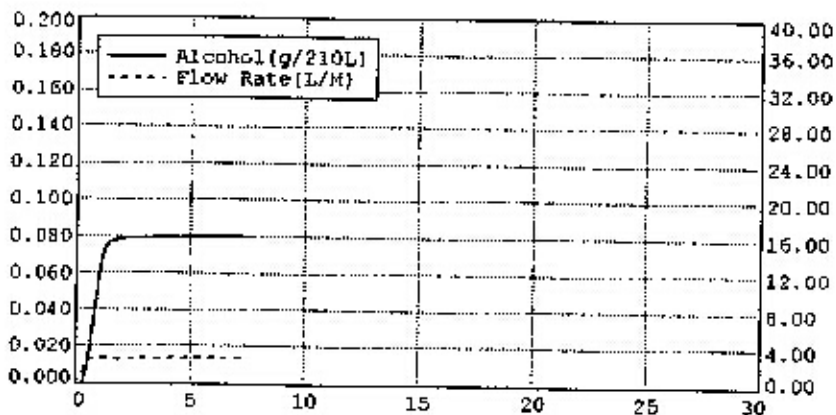
Alaska Department of Public Safety
 DATAMASTER dnt: 100391

Date: 05/02/2014
 Time: 14:31:57

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

BLANK TEST	0.000	14:34
INTERNAL STANDARD	VERIFIED	14:34
EXTERNAL STANDARD	0.081	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.081	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.081	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.081	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.081	14:38
BLANK TEST	0.000	14:39

Average = 0.0814
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

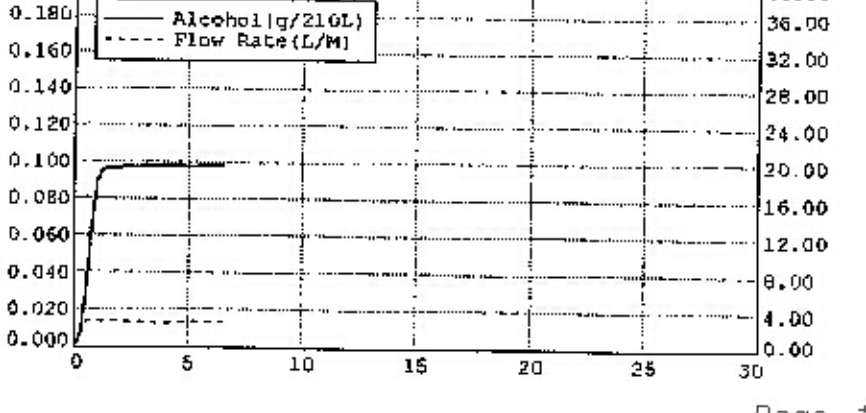
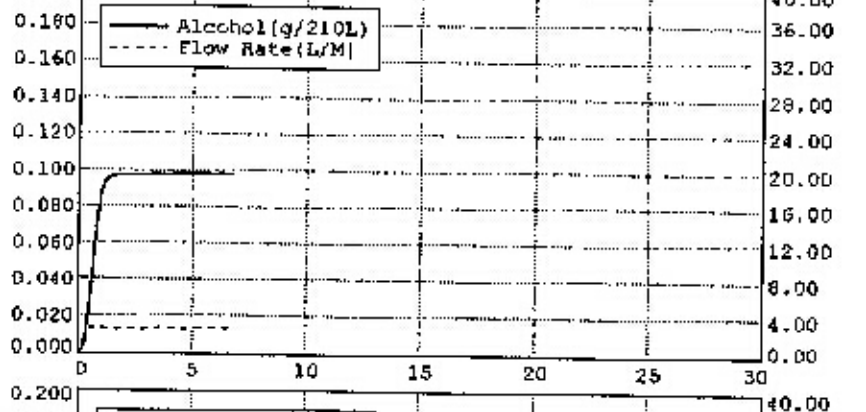
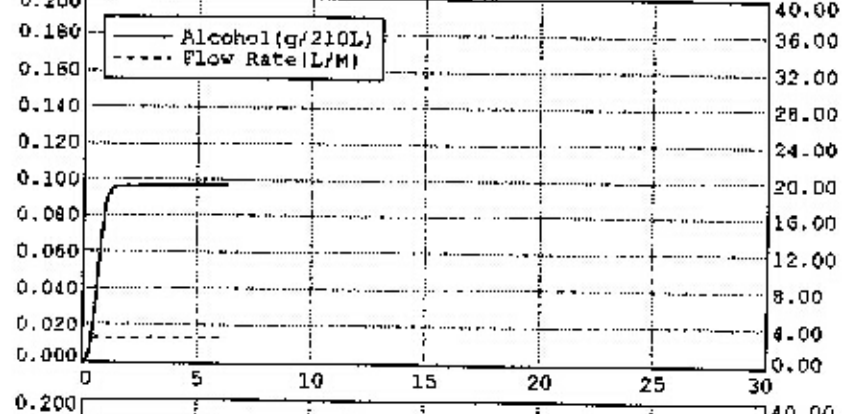
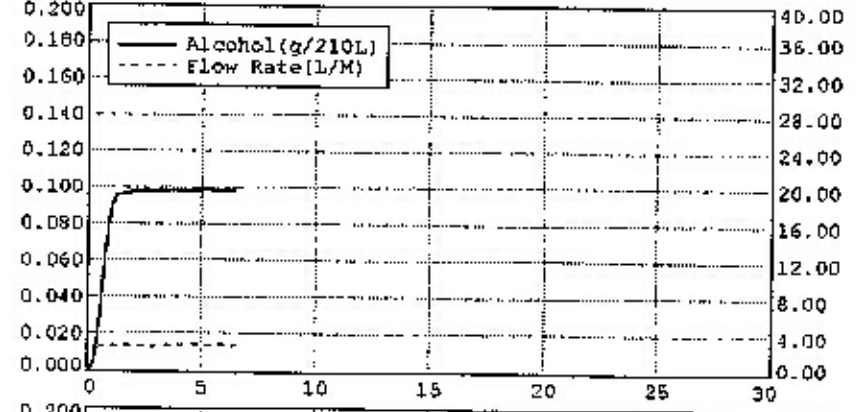
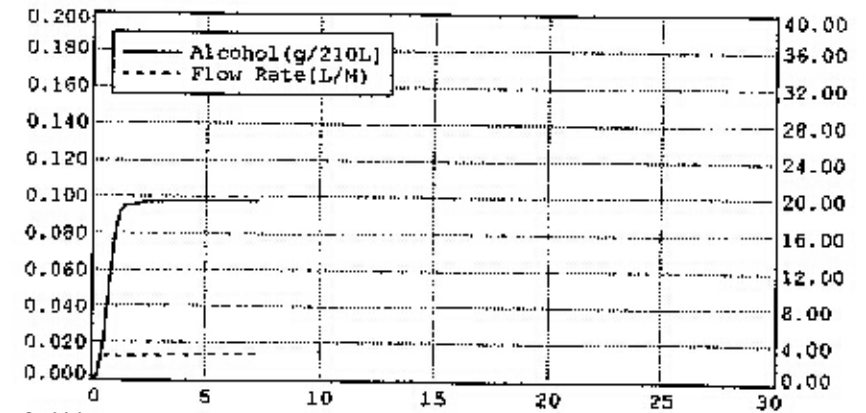
Alaska Department of Public Safety
 DATAMASTER dnt: 100391

Date: 05/02/2014
 Time: 14:41:59

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

BLANK TEST	0.000	14:43
INTERNAL STANDARD	VERIFIED	14:43
EXTERNAL STANDARD	0.098	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.098	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.098	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.099	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.098	14:47
BLANK TEST	0.000	14:48

Average = 0.0986
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

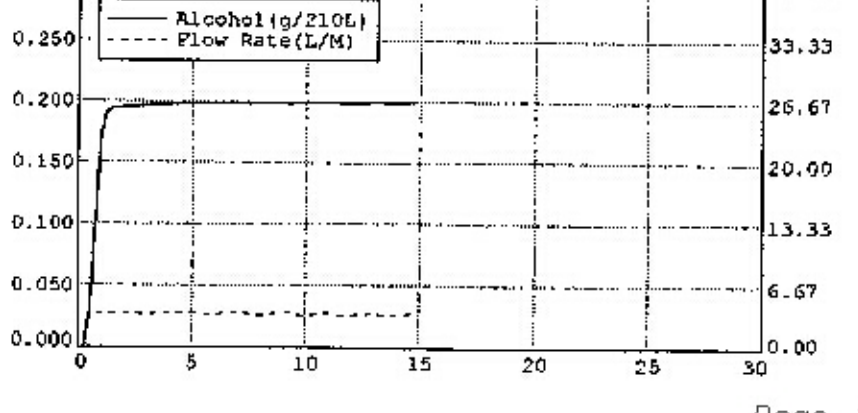
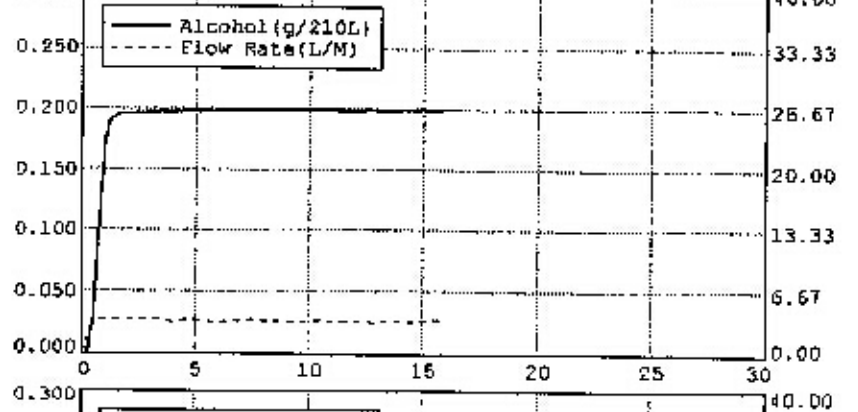
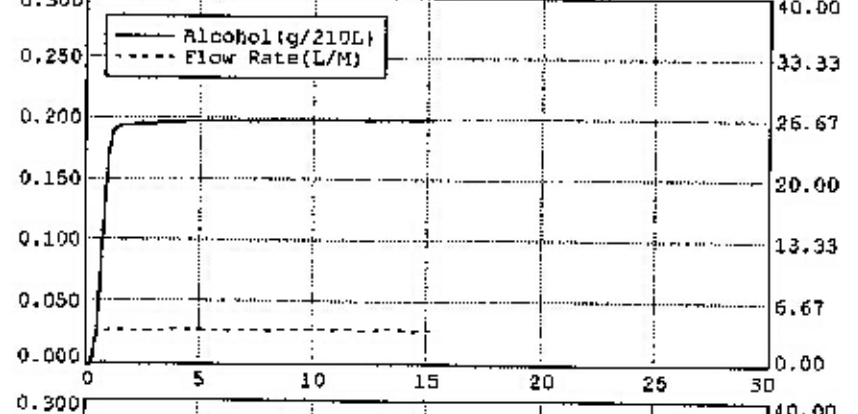
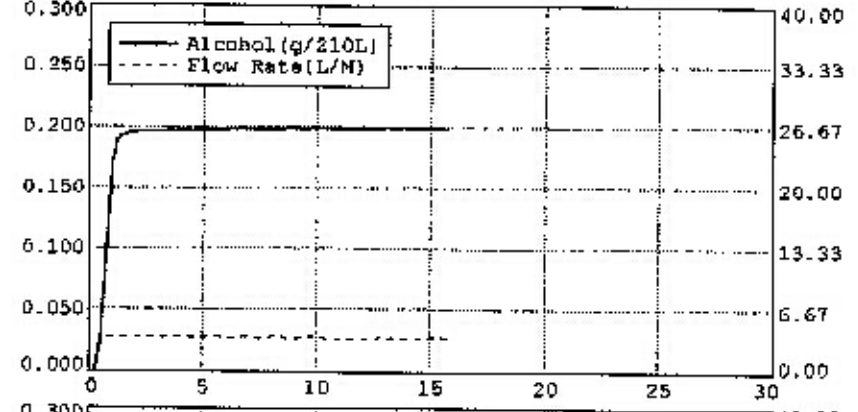
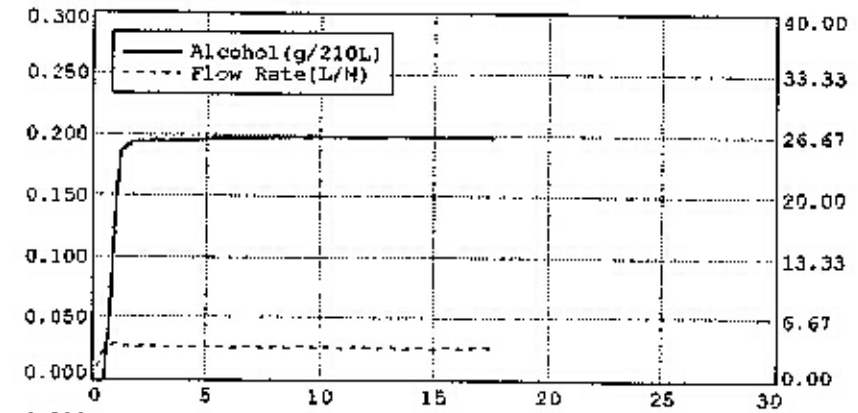
Alaska Department of Public Safety
 DATAMASTER dmc: 100391

Date: 05/02/2014
 Time: 14:53:11

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 12120
 EXPIRATION: 08/10/2014

BLANK TEST	0.000	14:54
INTERNAL STANDARD	VERIFIED	14:54
EXTERNAL STANDARD	0.199	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.199	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.199	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.200	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.199	15:00
BLANK TEST	0.000	15:01

Average = 0.1998
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

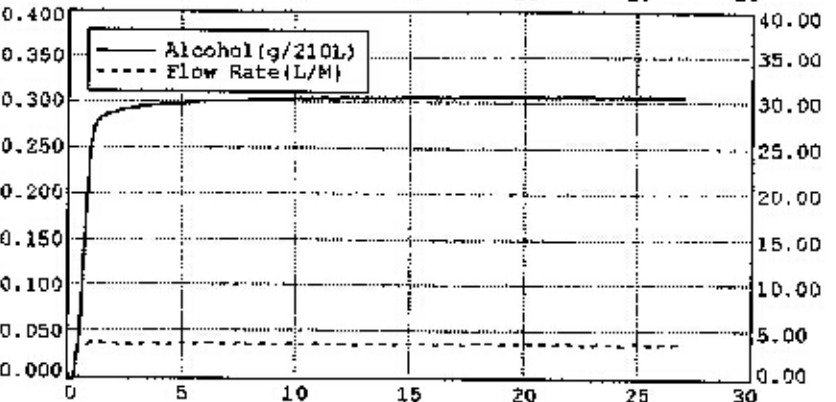
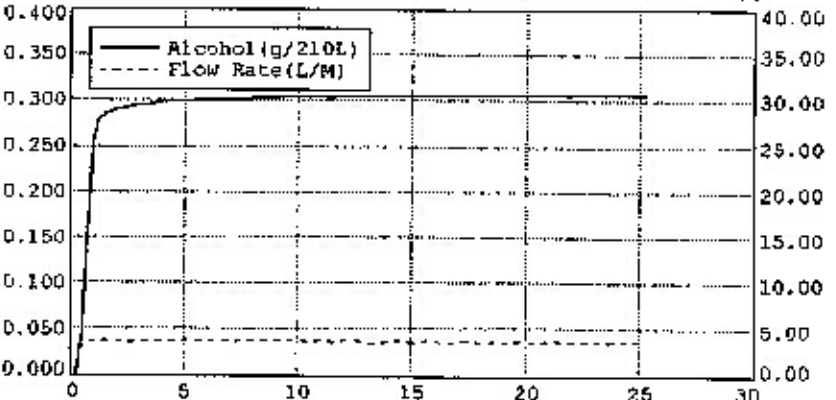
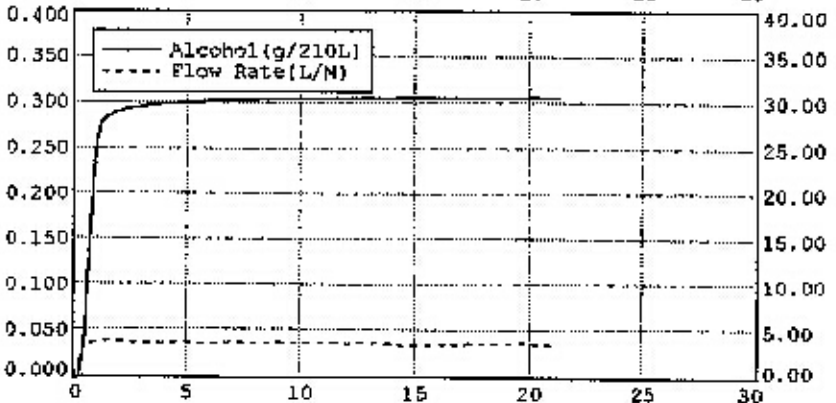
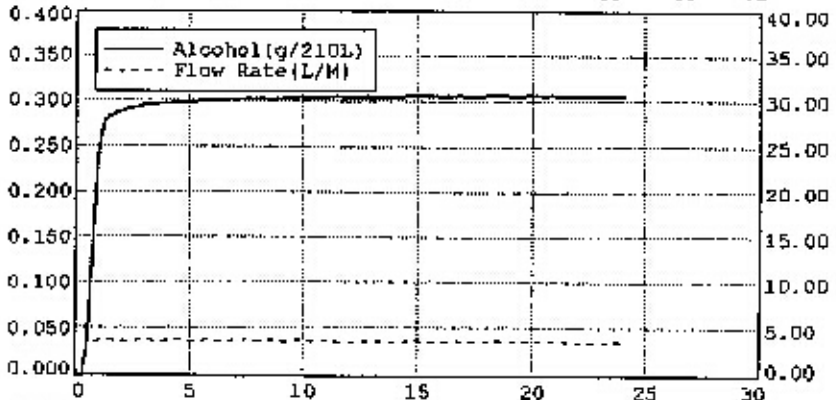
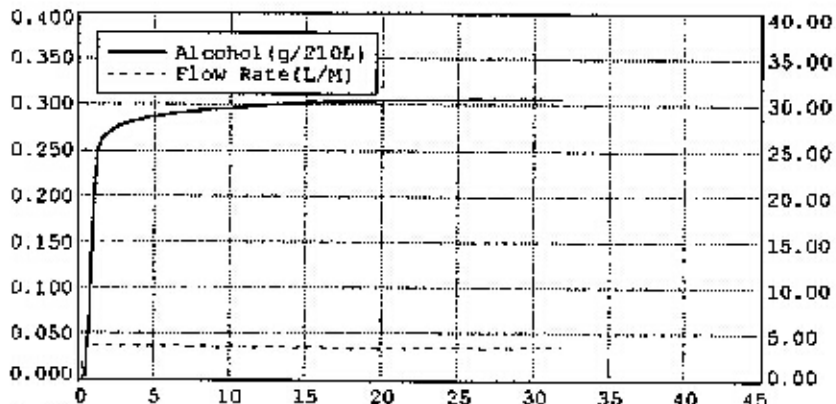
Alaska Department of Public Safety
 DATAMASTER dmt: 100391

Date: 05/02/2014
 Time: 15:04:07

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 13080
 EXPIRATION: 03/19/2015

BLANK TEST	0.000	15:05
INTERNAL STANDARD	VERIFIED	15:05
EXTERNAL STANDARD	0.307	15:06
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.307	15:07
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.307	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.307	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.306	15:12
BLANK TEST	0.000	15:13

Average = 0.3072
 Std Dev = 0.0002



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100391

Date: 05/01/2014
Time: 13:56:15

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

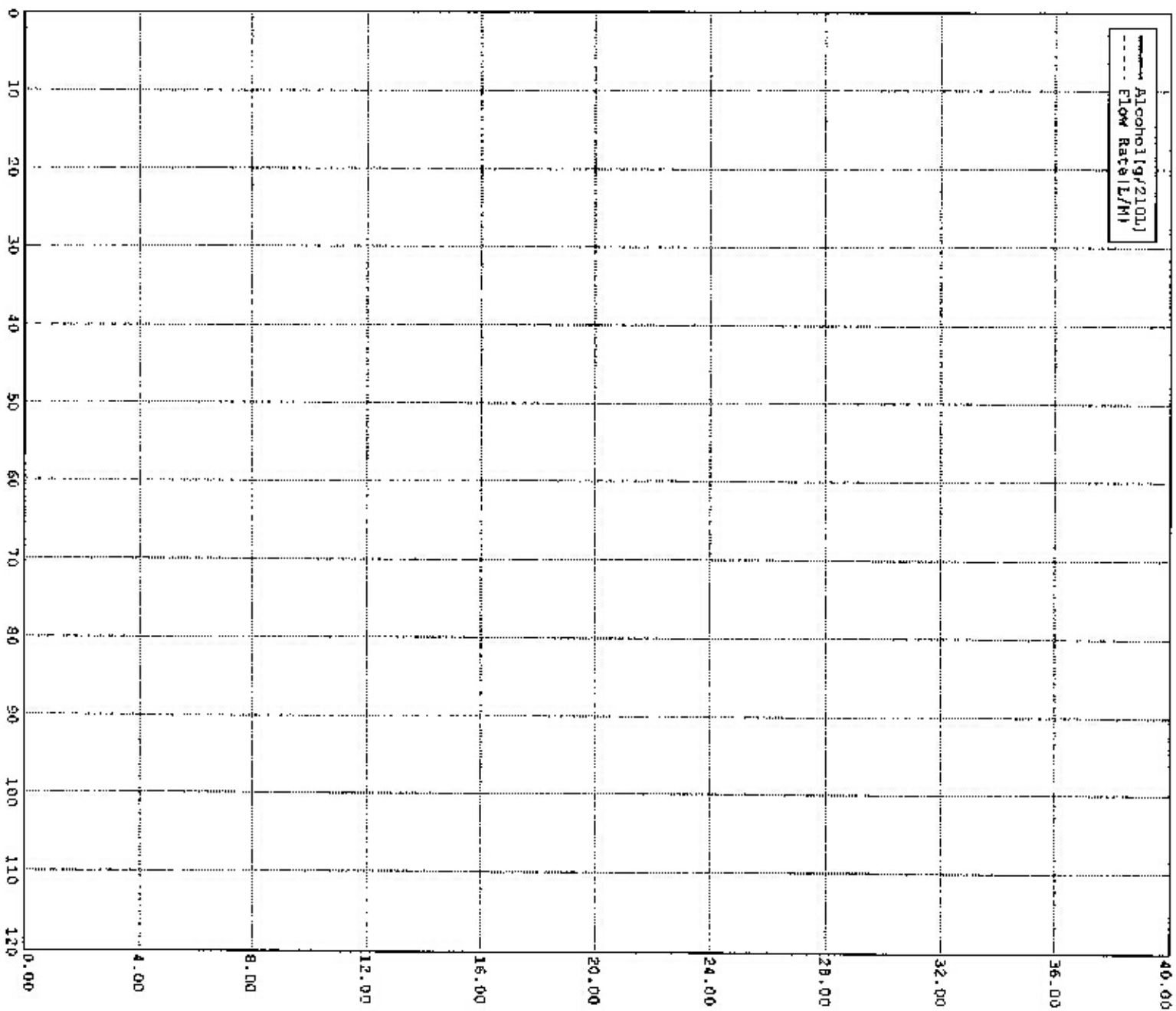
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

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

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	14:08
BLANK TEST	0.000	14:08
INTERNAL STANDARD	VERIFIED	14:08
EXTERNAL STANDARD	0.082	14:08
BLANK TEST	0.000	14:09
SUBJECT SAMPLE	INCOMPLETE	14:11

BRMB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100391

Date: 05/01/2014
Time: 14:38:30

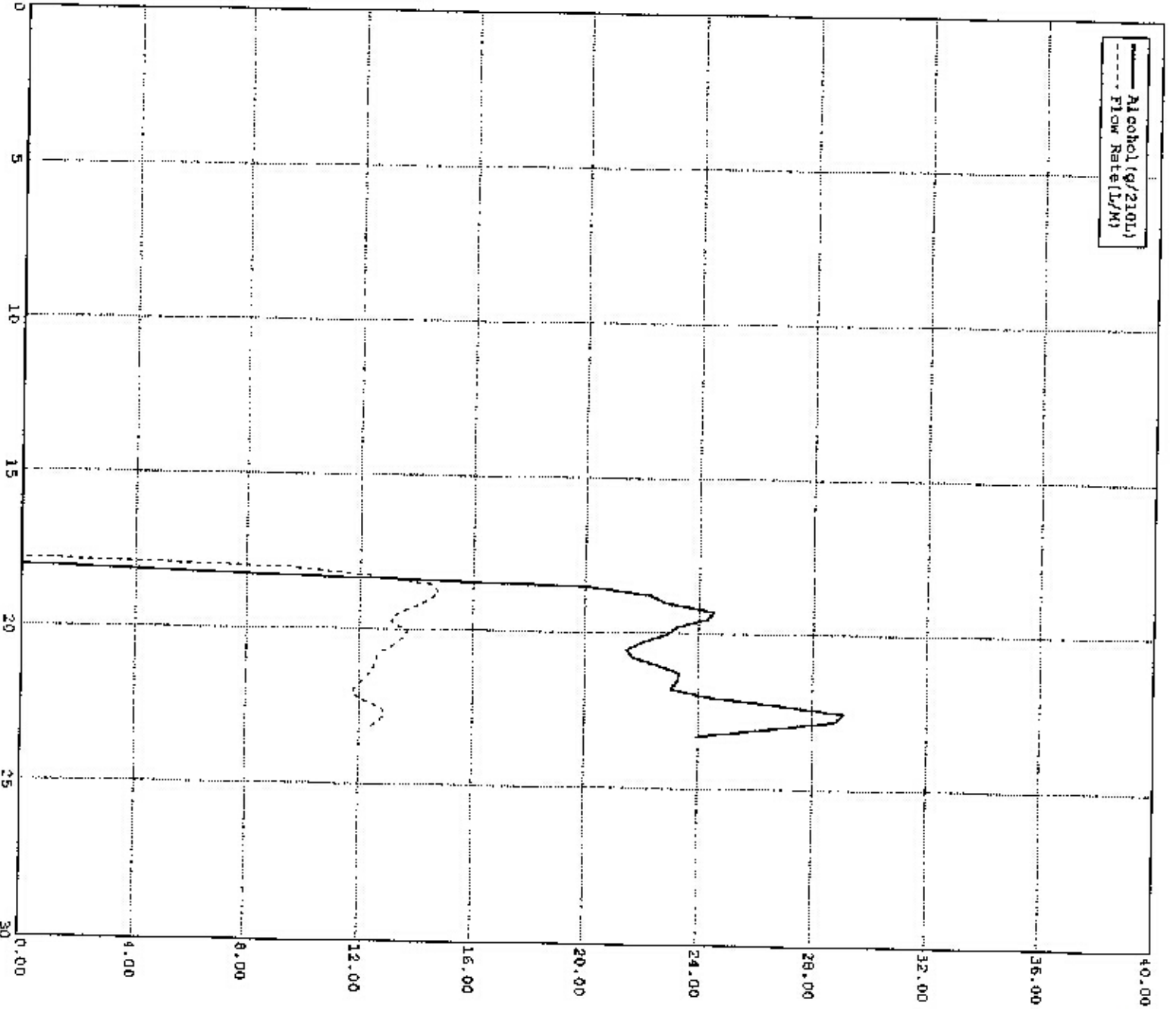
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
INVALID ENCOMP MONTH 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	14:48
INTERNAL STANDARD	VERIFIED	14:48
EXTERNAL STANDARD	0.082	14:48
BLANK TEST	0.000	14:49
SUBJECT SAMPLE	INVALID	14:49



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnr: 100391

Date: 05/02/2014
 Time: 15:29:11

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

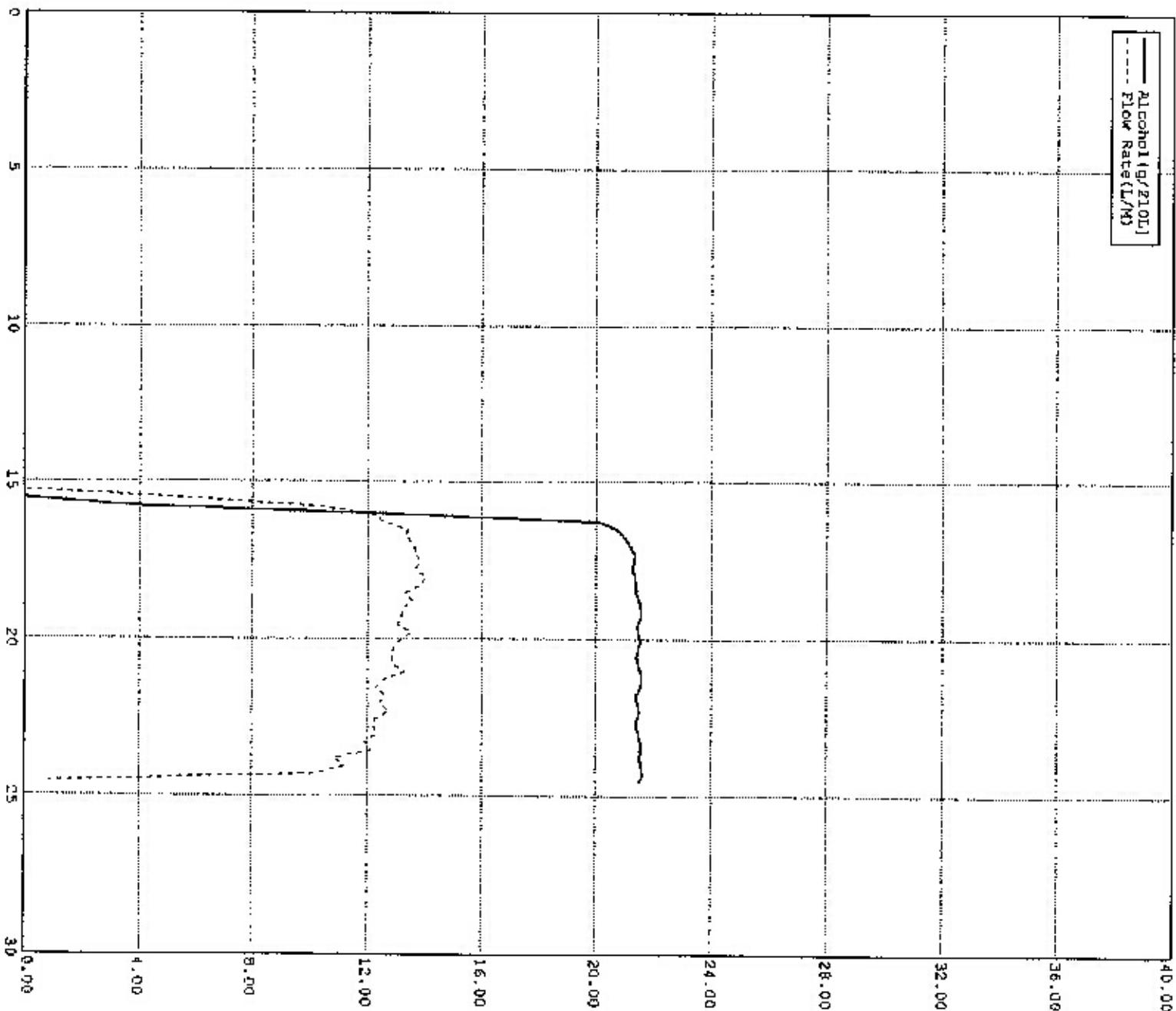
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

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

DIAGNOSTIC CHECK	PASSED	15:30
BLANK TEST	0.000	15:30
INTERNAL STANDARD	VERIFIED	15:30
XG = 0.089 (0.30%)		
EXTERNAL STANDARD	0.080	15:30
X[1] = 0.0805 (0.0010) (0.0026)		
BLANK TEST	0.000	15:31
SUBJECT SAMPLER	INTERFERENCE	15:32
X[1] = 0.1078 (-0.0168) (0.0015)		

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100391

Date: 05/02/2014
Time: 15:45:59

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

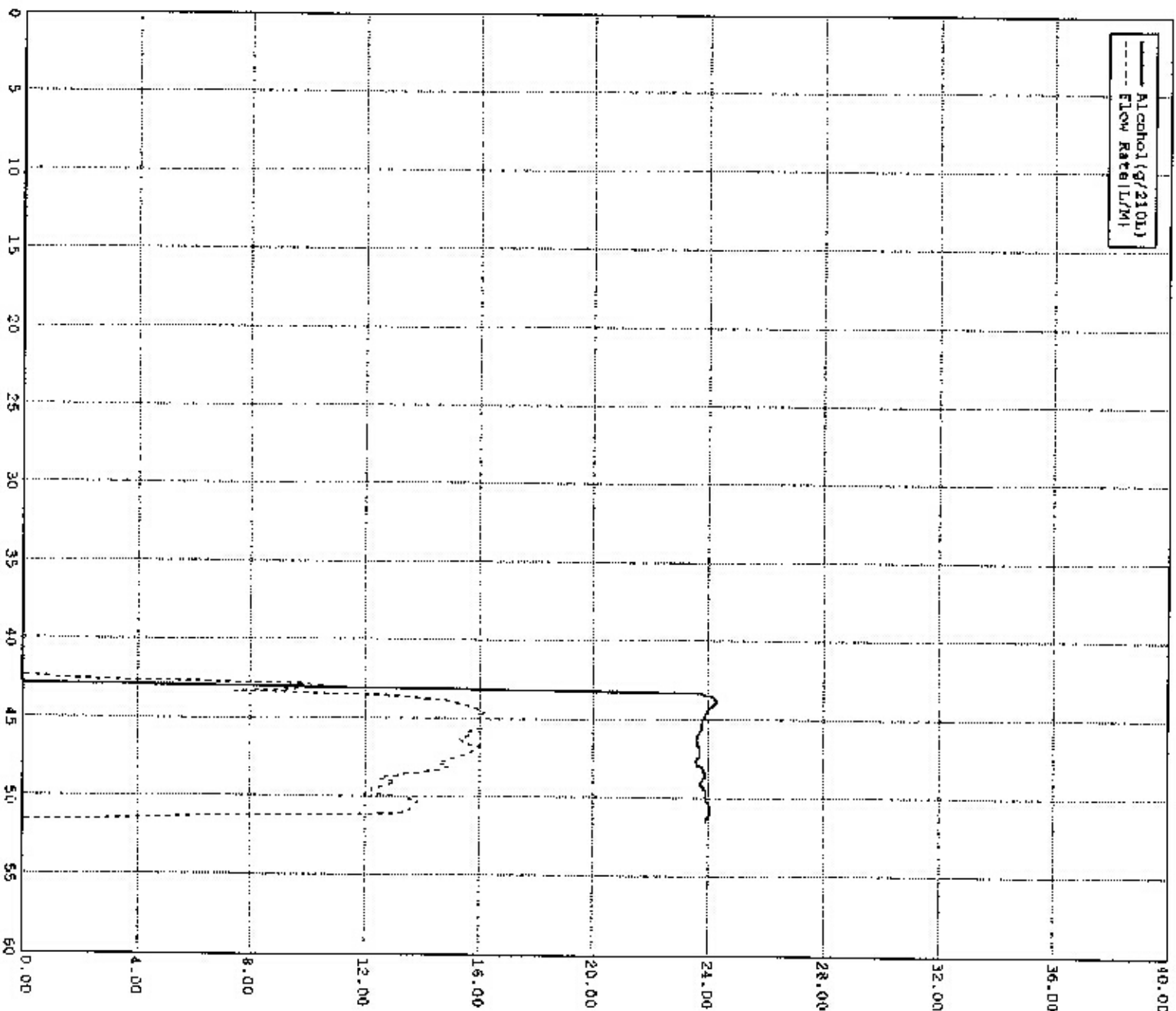
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7039

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

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

DIAGNOSTIC CHECK	PASSED	15:47
BLANK TEST	0.000	15:47
INTERNAL STANDARD	VERIFIED	15:47
Xg = 0.089 (1.288)		
EXTERNAL STANDARD	0.081	15:47
X[1] = 0.0813 (0.0009)	(0.0028)	
BLANK TEST	0.000	15:46
SUBJECT SAMPLE	INTERFERENCE	15:49
X[1] = 0.1194 (-0.0302)	(0.0024)	

BBB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100391

Date: 05/02/2014
 Time: 15:52:23

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

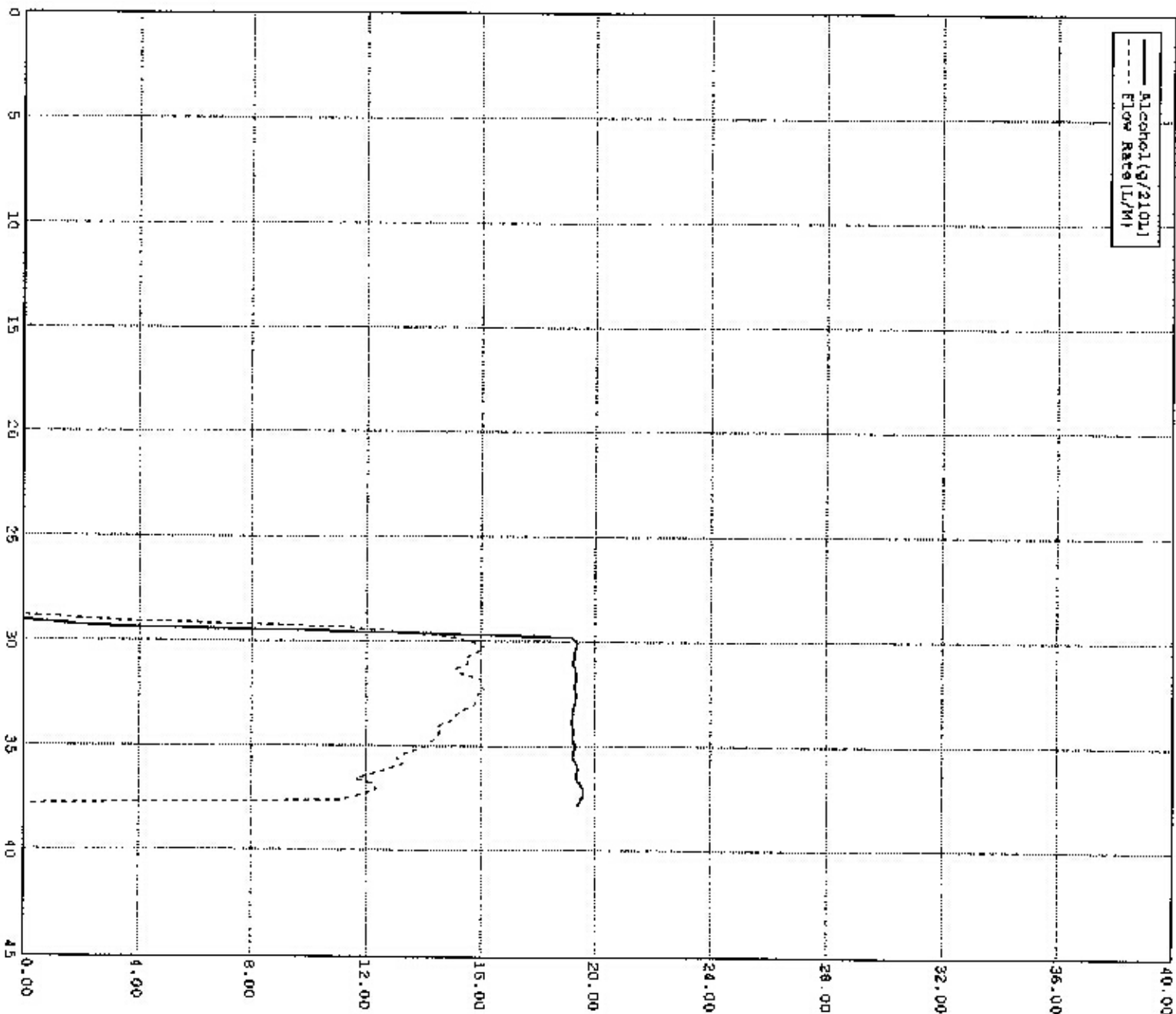
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 INTERFERENCE 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	15:54
BLANK TEST	0.000	15:54
INTERNAL STANDARD	VERIFIED	15:54
XQ = 0.089 (0.59%)		
EXTERNAL STANDARD	0.081	15:54
X[1] = 0.0813 (0.0009)	(0.0015)	
BLANK TEST	0.000	15:55
SUBJECT SAMPLE (Vol=2.04L)	0.097	15:56
X[1] = 0.0975 (-0.0014)	(0.0005)	
BLANK TEST	0.000	15:57
EXTERNAL STANDARD	0.080	15:57
X[1] = 0.0809 (0.0012)	(0.0013)	
BLANK TEST	0.000	15:58

BMB



SUBJECT TEST

Alaska Department of Public Safety
PARAMETER date: 100391

Date: 05/01/2014
Time: 14:53:54

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

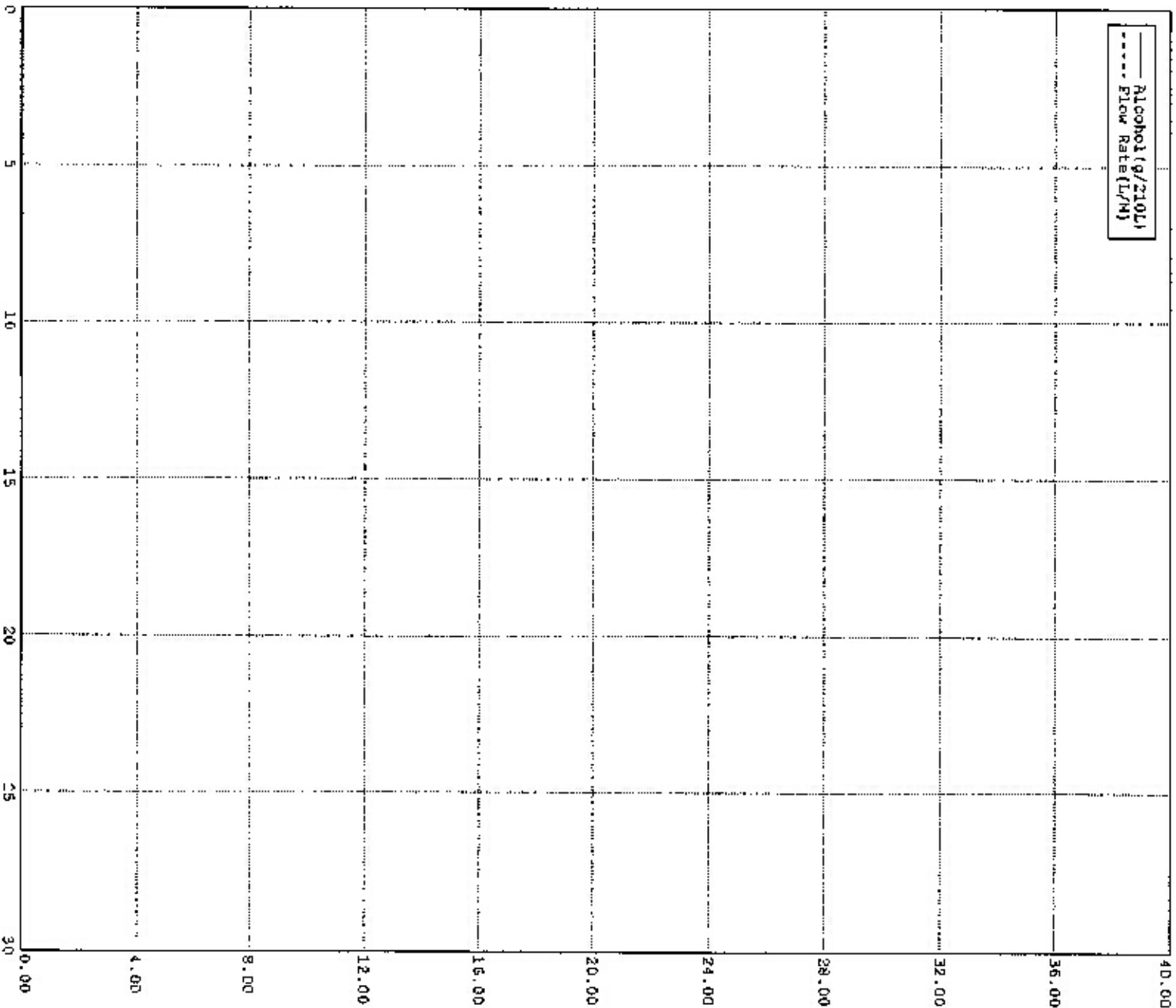
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.24: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:56
BLANK TEST	0.000	14:56
INTERNAL STANDARD	VERIFIED	14:56
EXTERNAL STANDARD	0.082	14:56
BLANK TEST	0.000	14:57

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
PARAMETER dmt: 100391

Date: 05/02/2014
Time: 16:24:19

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

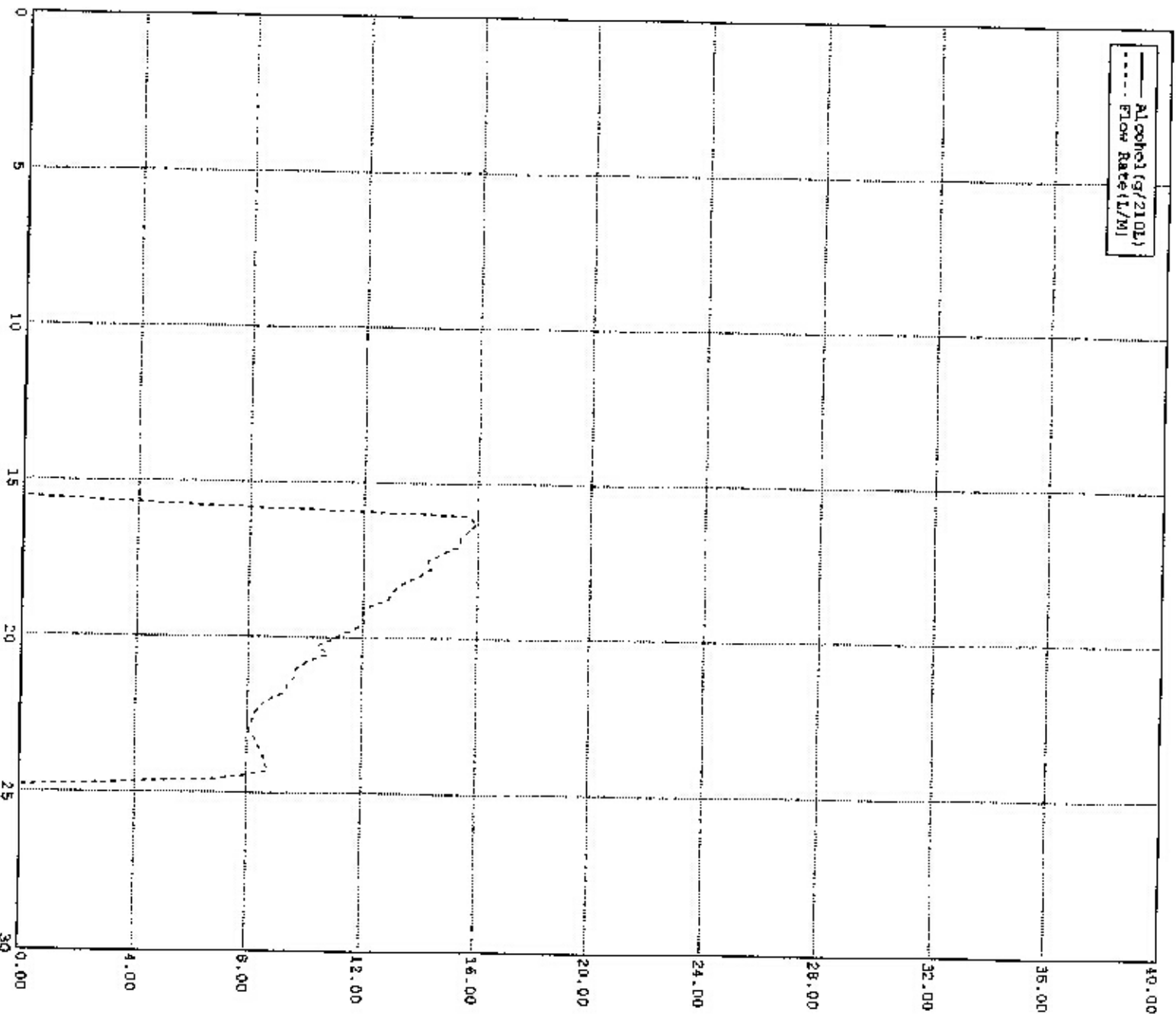
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7098

DEPT/AGENCY:
NON DRINKING SUBJECT TEST
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	16:25
BLANK TEST	0.000	16:25
INTERNAL STANDARD	0.082	16:25
EXTERNAL STANDARD	0.000	16:26
BLANK TEST	0.000	16:27
SUBJECT SAMPLE	0.000	16:28
BLANK TEST	0.000	16:28
EXTERNAL STANDARD	0.081	16:28
BLANK TEST	0.000	16:29

BMB



Final page for report

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7/3/2014