

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100687 Analyst Brandi Barnett Start Date 5/14/12
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 (3.5L +/- 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 03/01/2013
 - ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013
 - iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 03/01/2014
 - iv. 0.100g/210L Mnf ILMO Lot 07611000A3 Exp 03/01/2013
 - v. 0.200g/210L Mnf Guth Lot 1120 Exp 7/19/13
 - 1. Simulator S/N SD1176 Date Calibrated 8/17/2011
 - vi. 0.300g/210L Mnf Guth Lot 1110 Exp 07/13/13
 - 1. Simulator S/N 516MB Date Calibrated 02/21/2012

5. Functional Tests (attached)

- a. Incomplete b. Invalid
- c. Interference
- i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/13
 - 1. Simulator S/N SD1199 Date Calibrated 01/11/2012
 - ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/12
 - 1. Simulator S/N DR6267 Date Calibrated 01/10/12
 - iii. Negative Control - Mnf Guth Lot 9.100 Level 0.100 Exp 12/6/13
 - 1. Simulator S/N SD1202 Date Calibrated 8/17/2011

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

End Date 5/17/12

1/19/2012
5MB

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100687

Date: 05/14/2012
Time: 12:52:52

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 47.7°C PASSED

PUMP INFO
Flow Rate = 3.983 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

2/19/2012

Technician Screen

DATA MASTER dnt: 100687

Date: 05/14/2012
Time: 1:07 PM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 47.6°C

Current Barometer 29.9 in
Volume (Ltr) 1.54

Settings

Lamp: 1.70 V
Bias: 80 V
Cooler: 1.70 V
Chopper: 540 Hz

Voltages (V)

Flow: 1.05 V
Detector: -0.084 V

3/19/08

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dnt: 100687

Date: 10/24/2011
Time: 09:24:54

Ca	=	0.1000		
CAL	=	1.019002	0.800	<= CAL < 1.200
b1	=	0.0009	0.0000	<= b1 < 0.0040
b2	=	0.0040	0.0010	<= b2 < 0.0100
b3	=	0.0021	0.0000	<= b3 < 0.0040
Xq	=	0.1354	0.0500	<= Xq < 0.2000
a21	=	1.149434	1.050	<= a21 < 1.300
a31	=	0.503196	0.300	<= a31 < 0.800

4/19/2013

SUBJECT TEST

Alaska Department of Public Safety
DATAANALYST dmc: 100687

Date: 05/14/2012
Time: 13:09:19

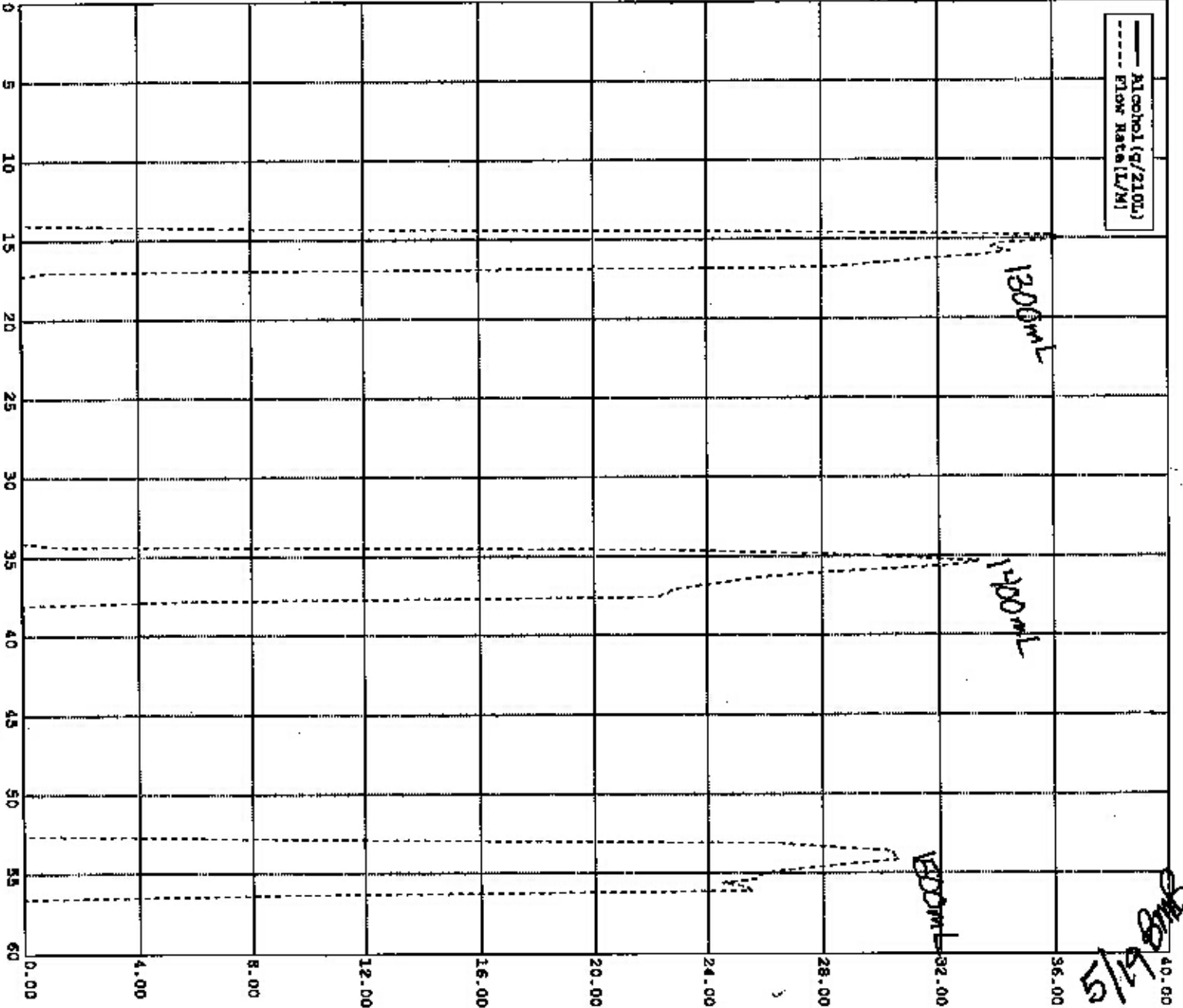
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDT BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.94: 0.080
LOR #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:10
BLANK TEST	0.000	13:10
INTERNAL STANDARD	VERIFIED	13:10
EXTERNAL STANDARD	0.082	13:11
BLANK TEST	0.000	13:12
SUBJECT SAMPLE	0.000	13:13
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.084	13:14
BLANK TEST	0.000	13:15



LINERITY CHECK

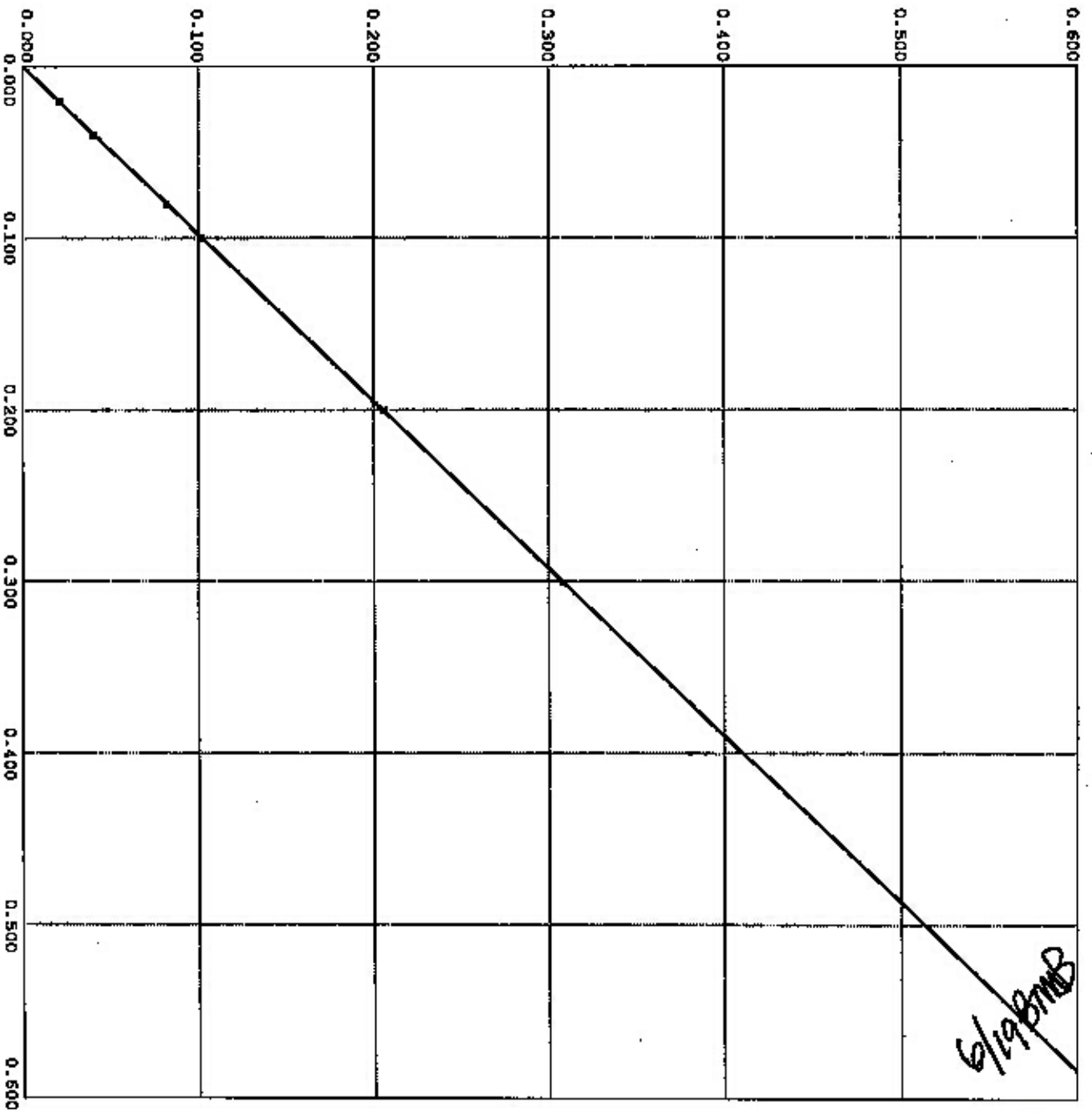
Alaska Department of Public Safety
 DETONASTER dnt: 100687

Date: 05/14/2012
 Time: 13:27:25

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0217	0.0006
0.040	0.0413	0.0005
0.080	0.0824	0.0006
0.100	0.1025	0.0004
0.200	0.2066	0.0009
0.300	0.3088	0.0005

SLOPE = 1.028464
 R² = 0.999976



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dnt: 100687

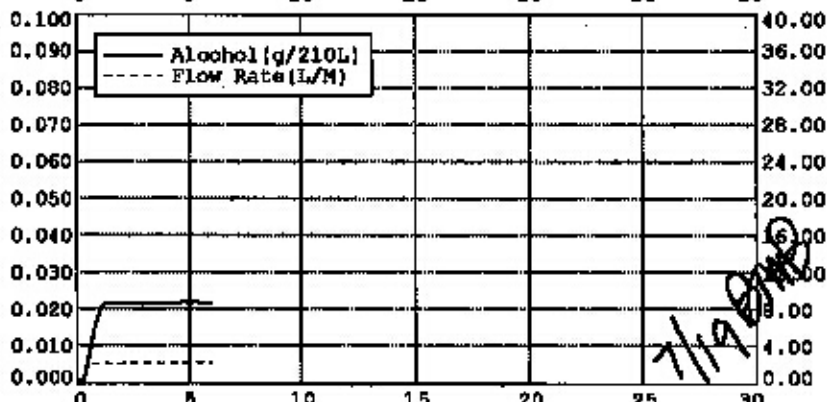
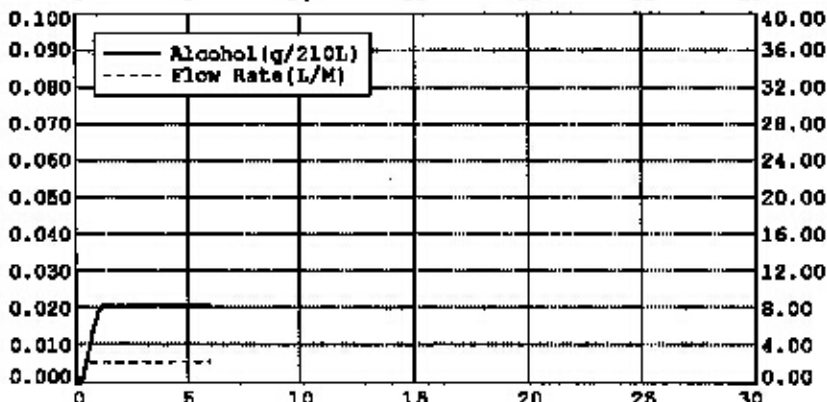
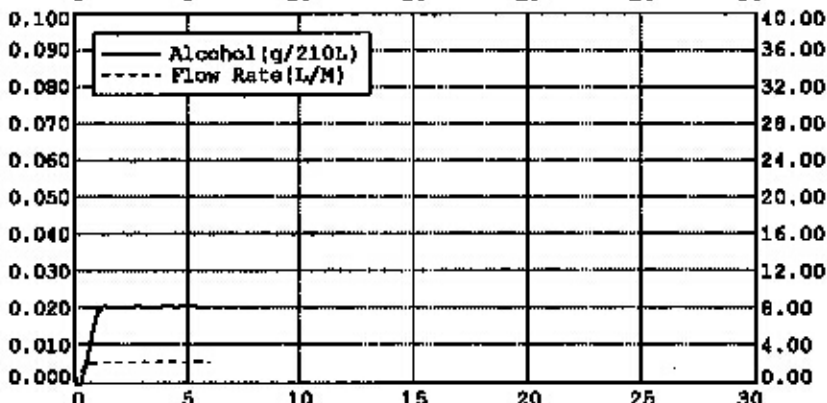
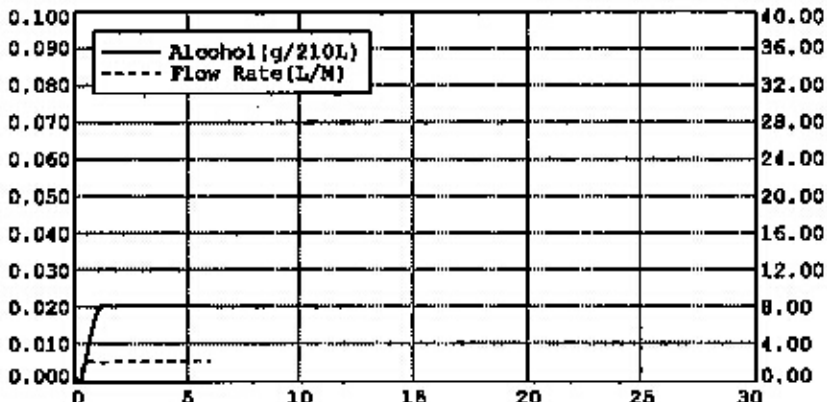
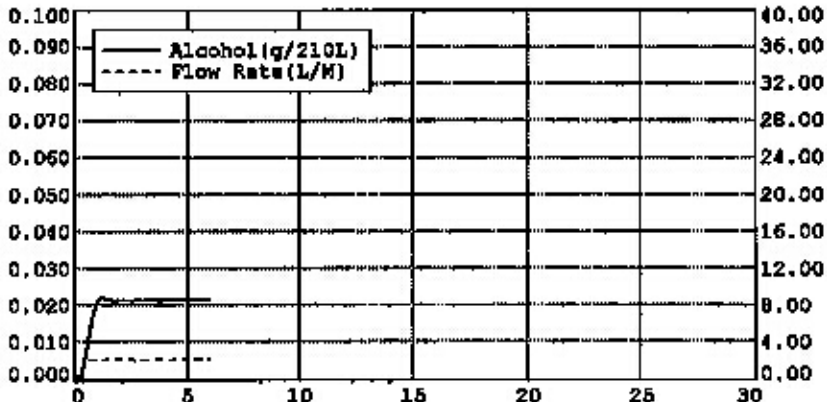
Date: 05/14/2012
 Time: 13:27:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.93: 0.020
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:30
INTERNAL STANDARD	VERIFIED	13:30
EXTERNAL STANDARD	0.022	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.021	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.021	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.021	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.022	13:34
BLANK TEST	0.000	13:35

Average = 0.0217
 Std Dev = 0.0006



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100687

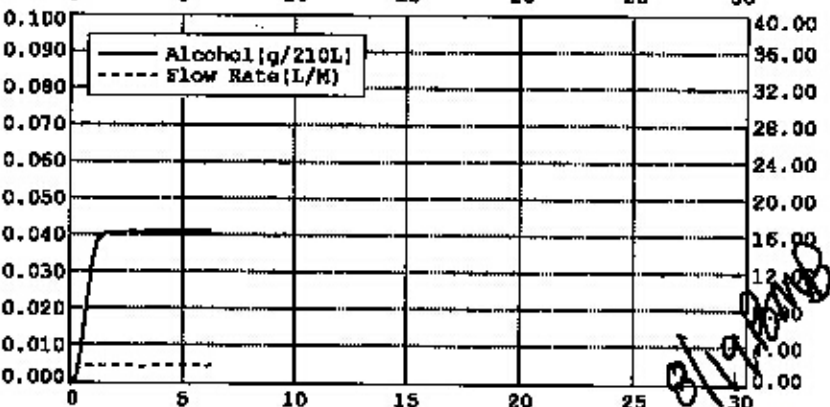
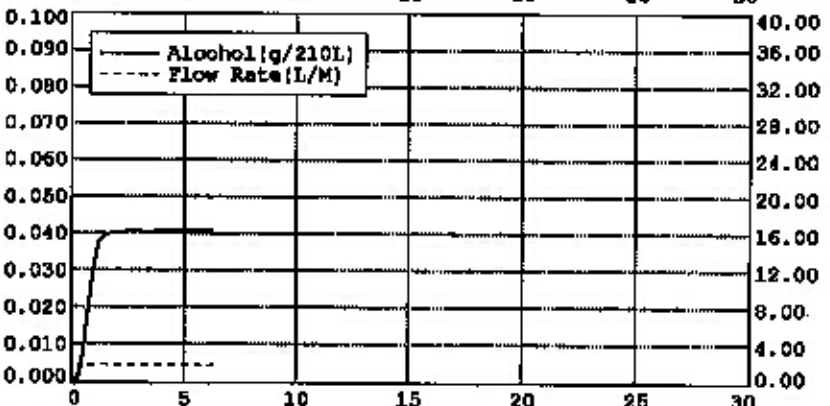
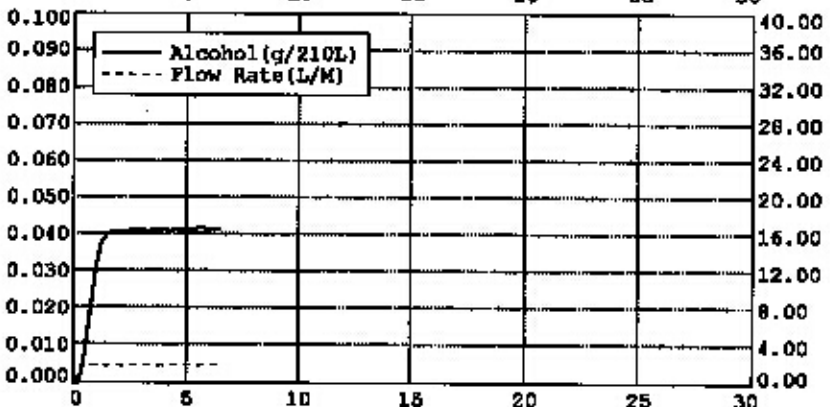
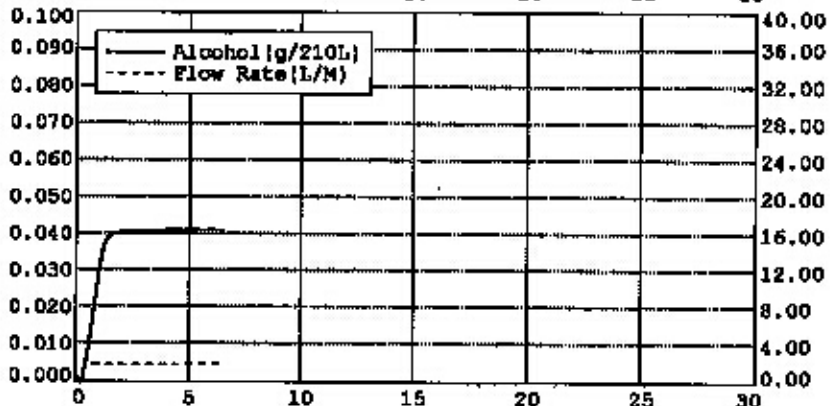
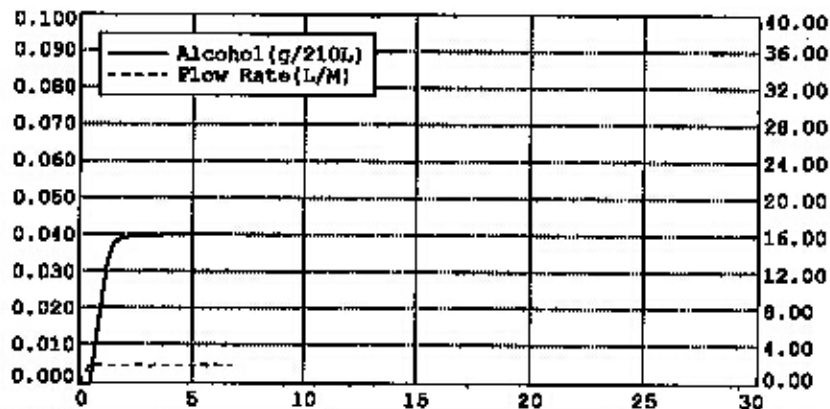
Date: 05/14/2012
 Time: 13:46:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.94: 0.040
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
EXTERNAL STANDARD	0.040	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.041	13:49
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.041	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.041	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.041	13:52
BLANK TEST	0.000	13:53

Average = 0.0413
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dnt: 100687

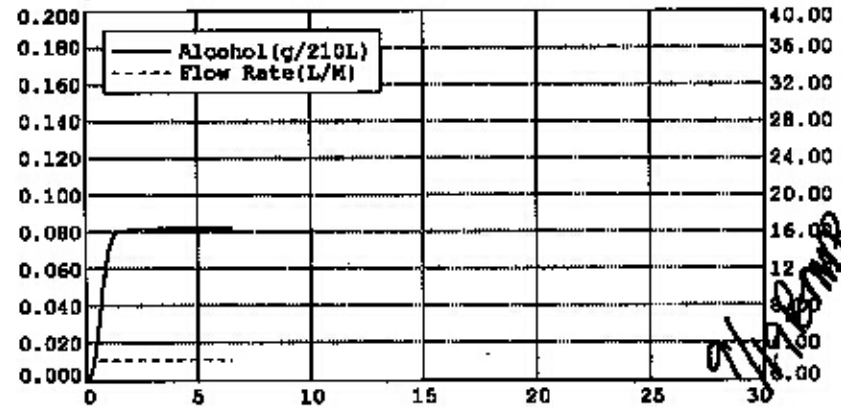
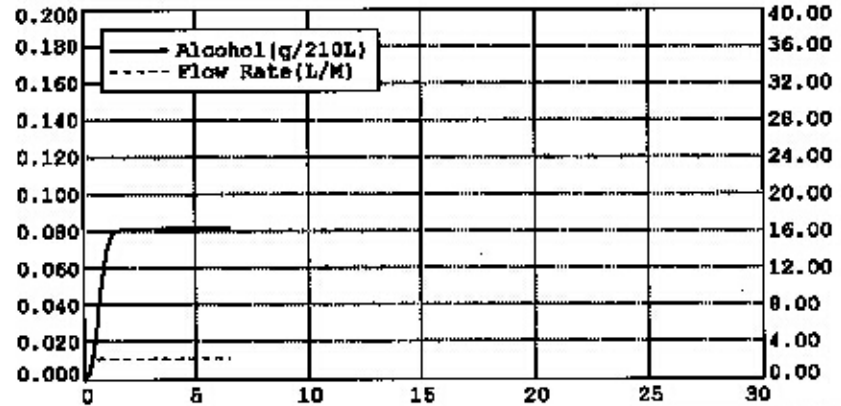
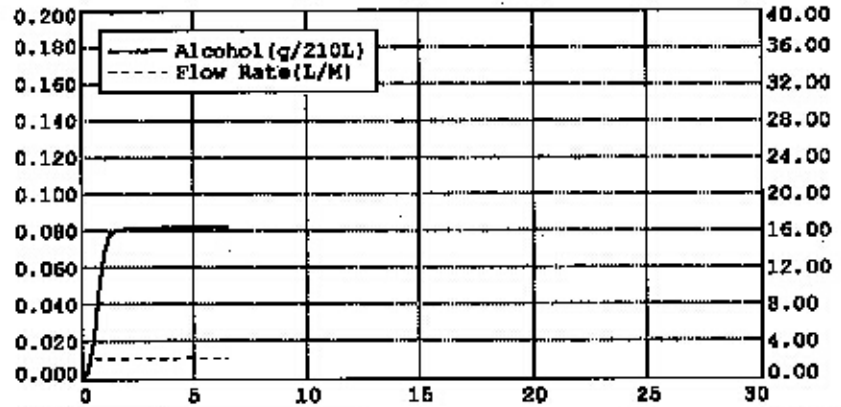
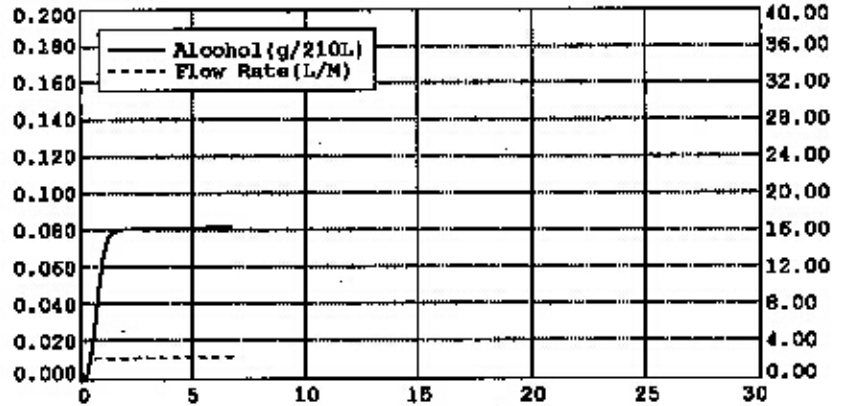
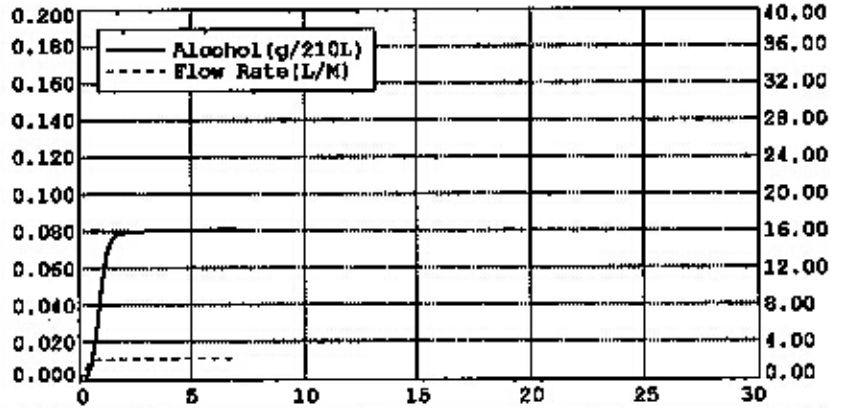
Date: 05/14/2012
 Time: 14:00:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.95: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	14:01
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.081	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.082	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.082	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.082	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.083	14:06
BLANK TEST	0.000	14:07

Average = 0.0824
 Std Dev = 0.0006



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dnt: 100687

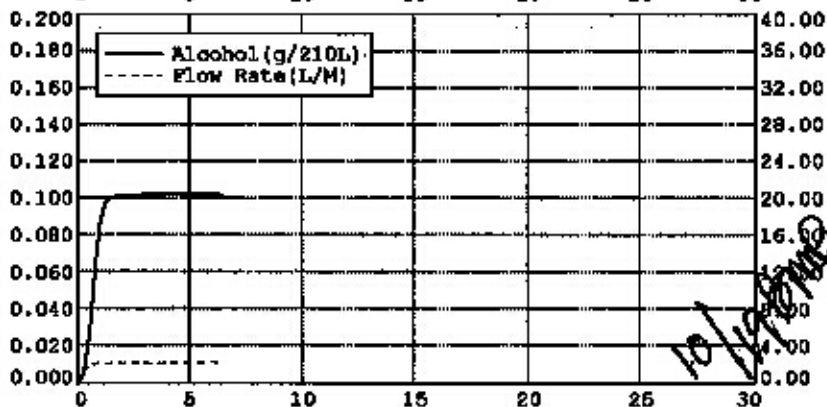
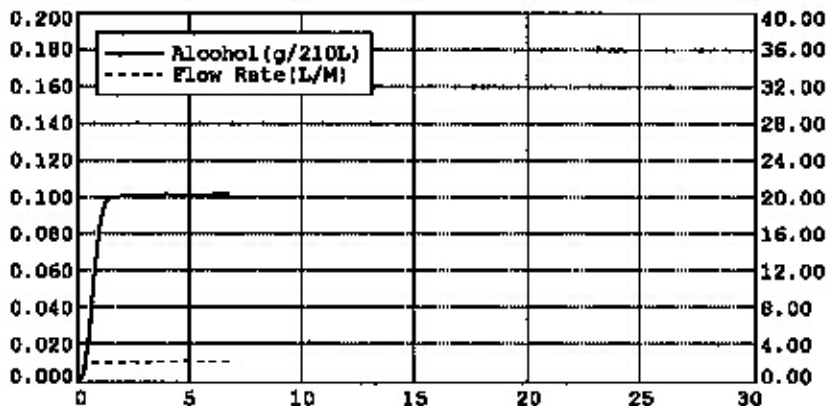
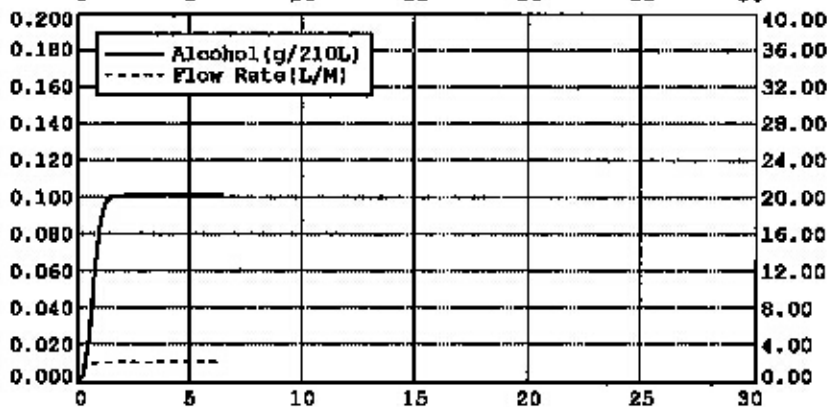
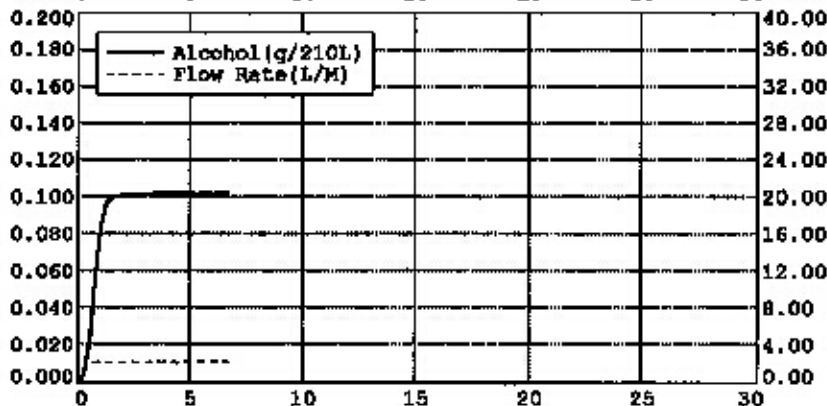
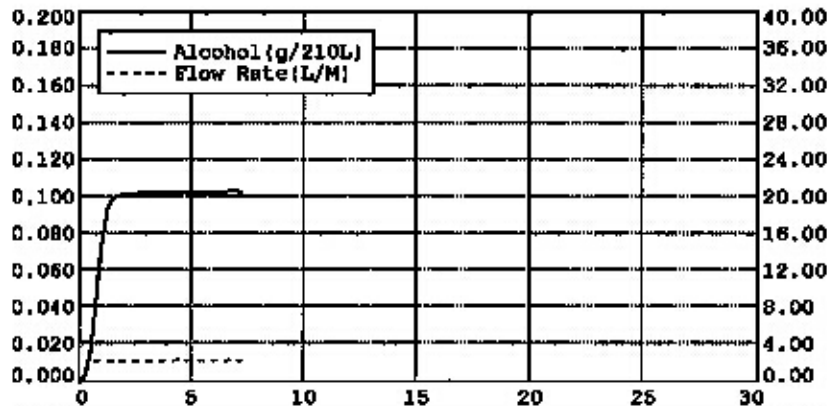
Date: 05/14/2012
 Time: 14:09:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.95: 0.100
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:10
INTERNAL STANDARD	VERIFIED	14:10
EXTERNAL STANDARD	0.103	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.102	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.102	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.102	14:14
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.102	14:15
BLANK TEST	0.000	14:16

Average = 0.1025
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dnt: 100687

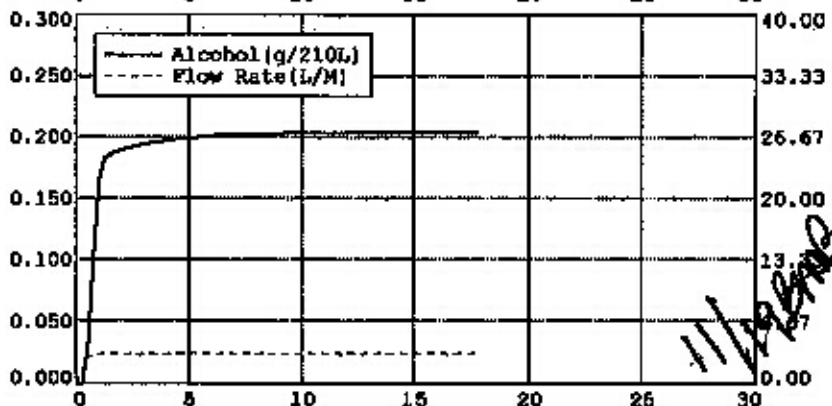
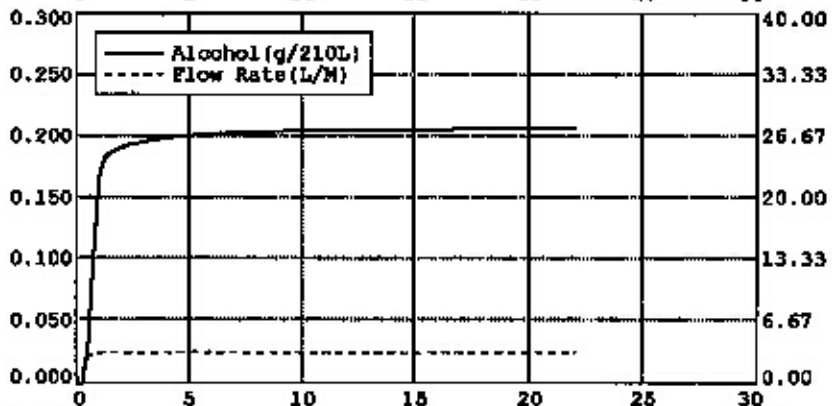
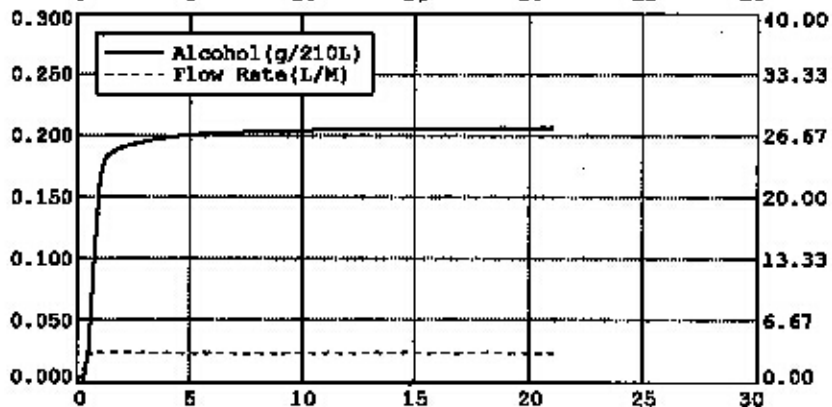
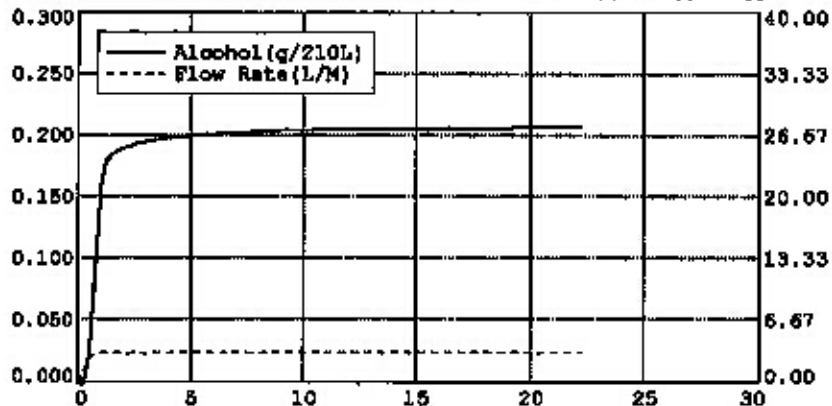
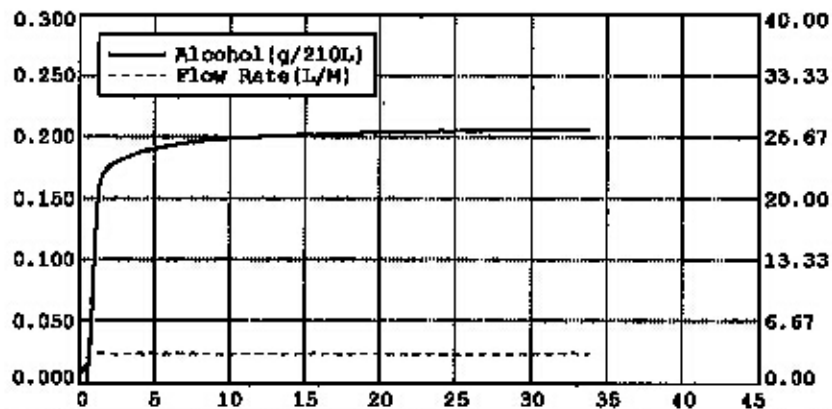
Date: 05/14/2012
 Time: 14:19:50

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:20
INTERNAL STANDARD	VERIFIED	14:21
EXTERNAL STANDARD	0.206	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.207	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.207	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.206	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.205	14:27
BLANK TEST	0.000	14:28

Average = 0.2066
 Std Dev = 0.0009



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100687

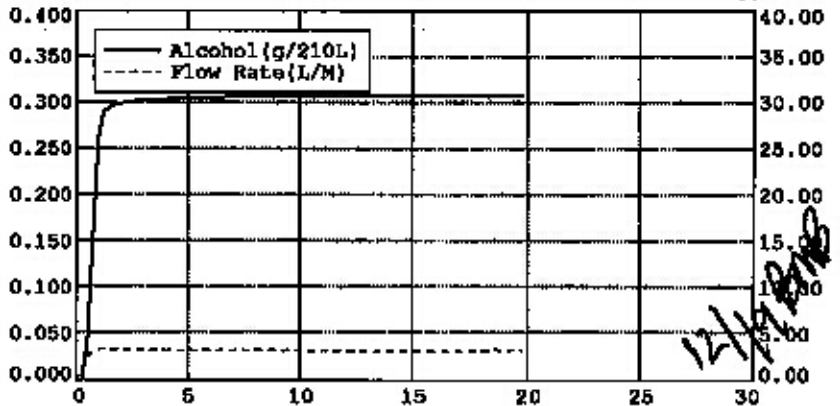
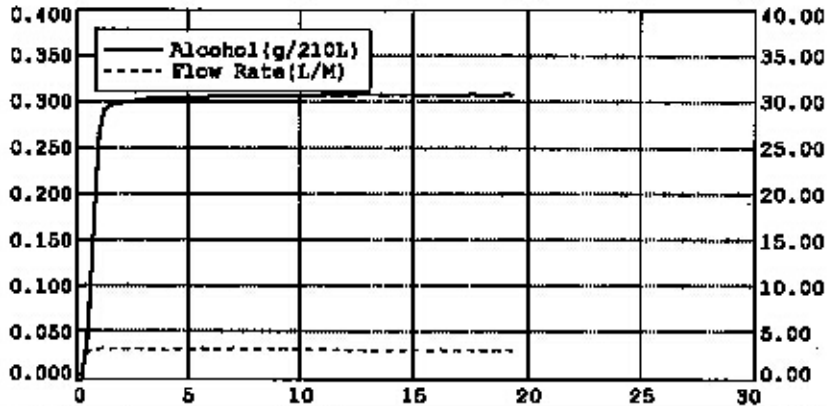
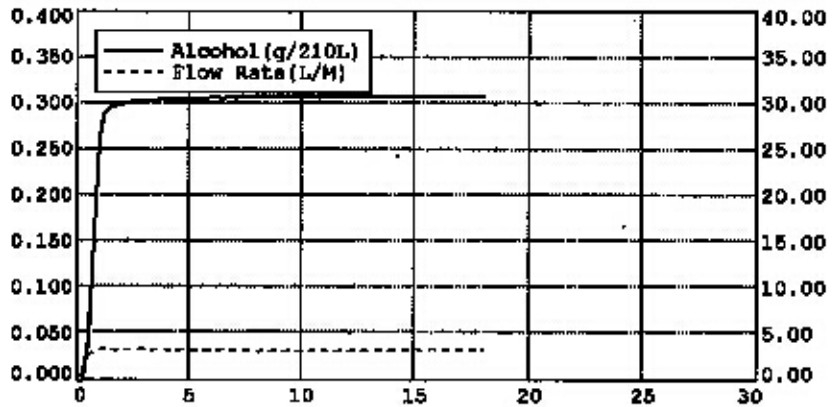
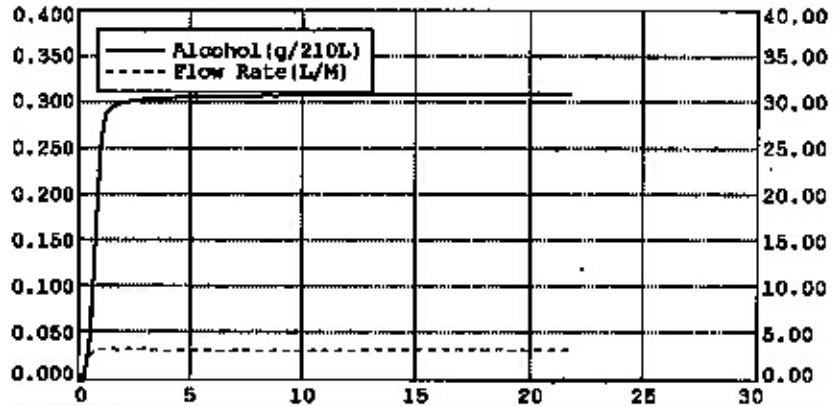
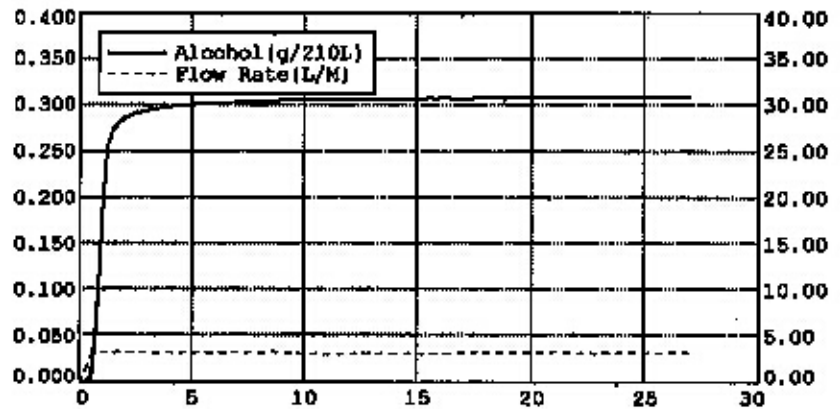
Date: 05/14/2012
 Time: 14:30:47

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:32
INTERNAL STANDARD	VERIFIED	14:32
EXTERNAL STANDARD	0.309	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.309	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.308	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.308	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.308	14:39
BLANK TEST	0.000	14:40

Average = 0.3088
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100687

Date: 05/16/2012
Time: 09:29:44

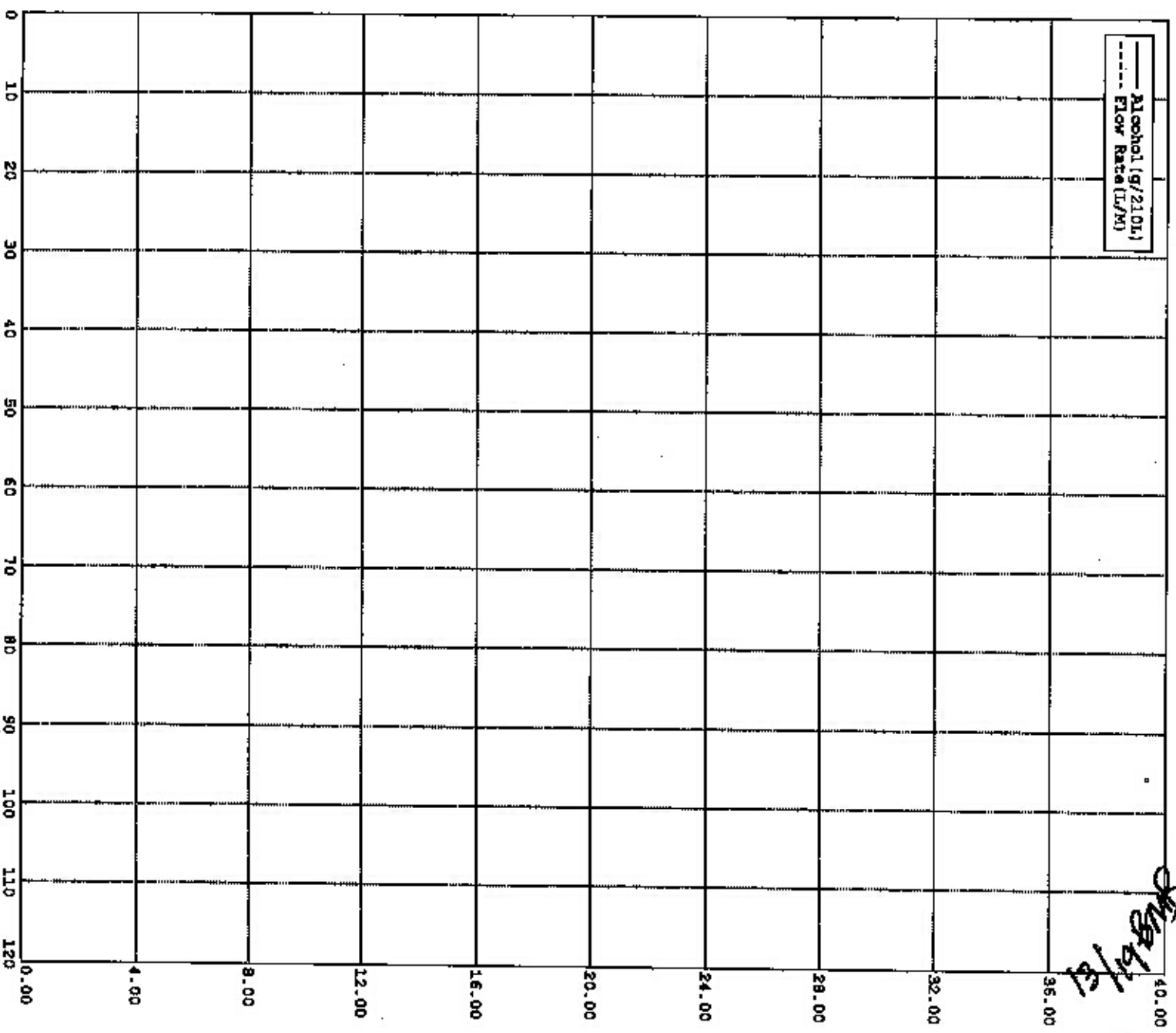
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.24: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:32
BLANK TEST	0.000	09:32
INTERNAL STANDARD	VERIFIED	09:32
EXTERNAL STANDARD	0.083	09:33
BLANK TEST	0.000	09:34
SUBJECT SAMPLE	INCOMPLETE	09:35



Handwritten signature
05/16/12

SUBJECT TEST

Alaska Department of Public Safety
INSTRUMENT dmc: 100587

Date: 05/16/2012
Time: 10:28:56

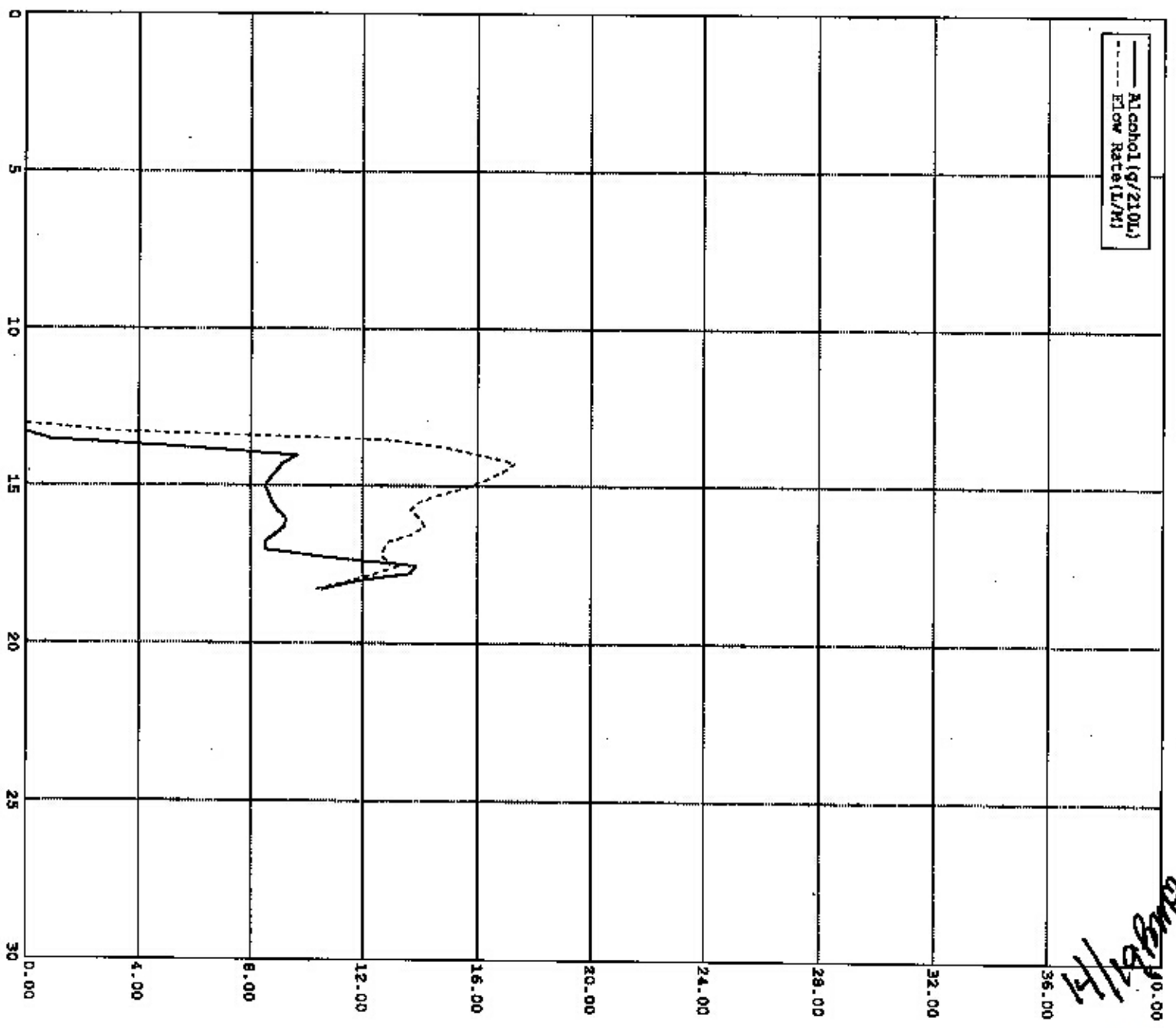
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

OPERATOR NAME:
BRANDI BARRETT
OPERATOR'S #: 7038

DEPT/AGENCY:
KNOWE MOUET ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.23: 0.080
LOT #: 0201208061
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:30
BLANK TEST	0.000	10:30
INTERNAL STANDARD	VERIFIED	10:30
EXTERNAL STANDARD	0.082	10:30
BLANK TEST	0.000	10:31
SUBJECT SAMPLE	INVALID	10:32



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100687

Date: 05/16/2012
 Time: 10:34:05

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

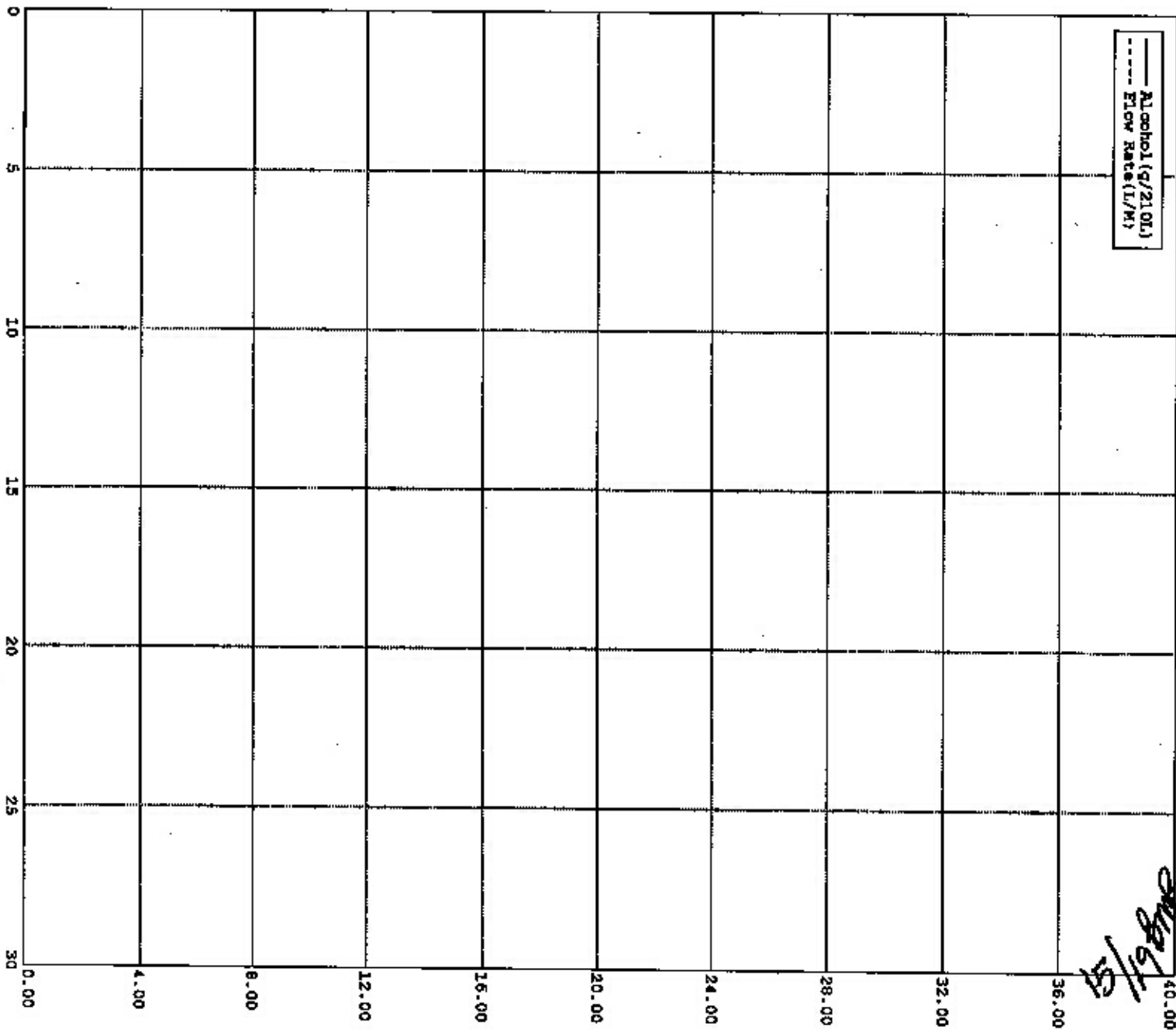
OPERATOR NAME:
 BRANDI HARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET A/F 30.23: 0.080
 LOT #: 02012080AL
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 10:35
 BLANK TEST 0.000 10:36
 INTERNAL STANDARD VERIFIED 10:36
 EXTERNAL STANDARD 0.083 10:36
 BLANK TEST 0.000 10:37

RFT DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100687

Date: 05/16/2012
Time: 13:20:30

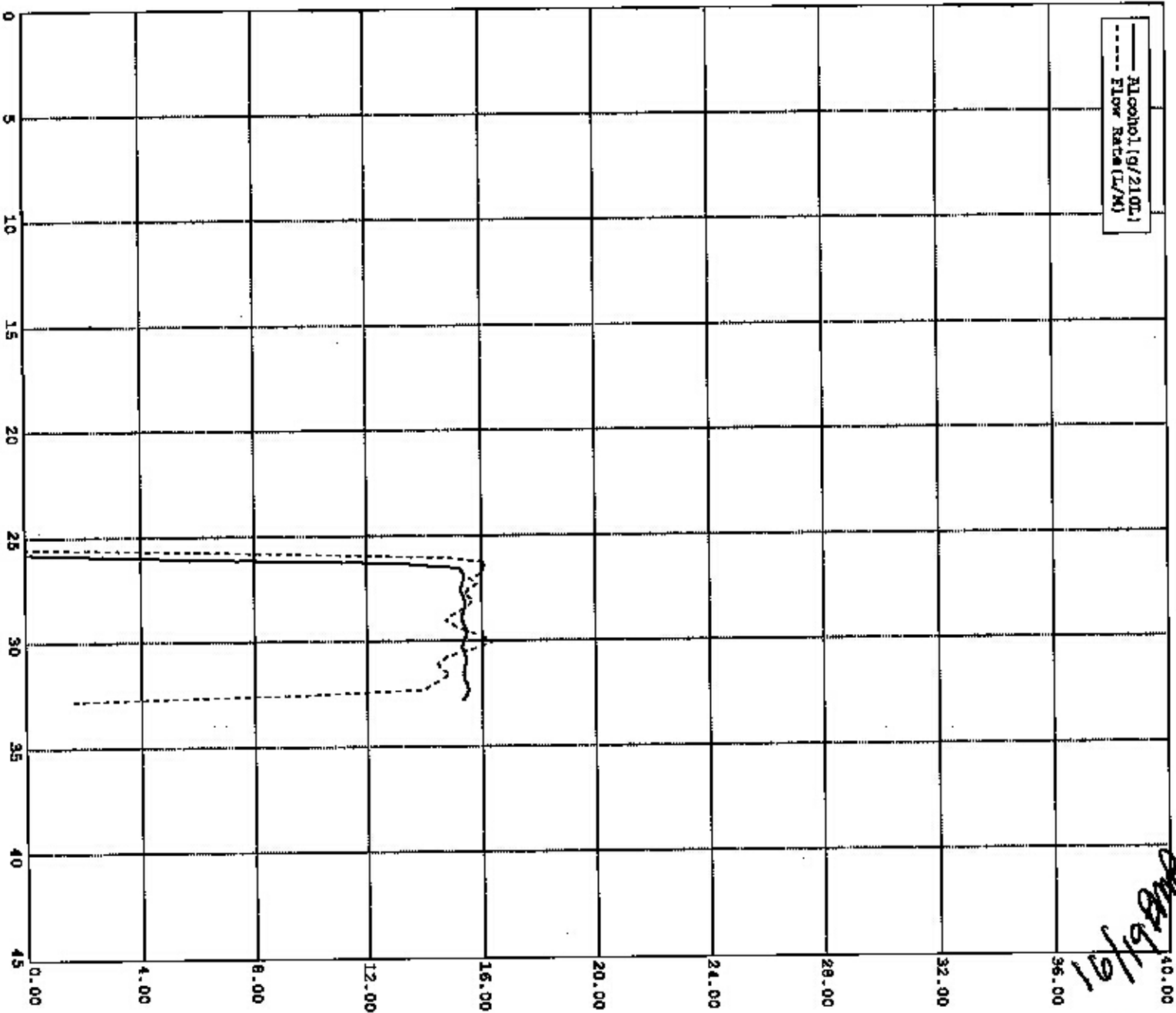
SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERENCE

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
EVENING AND AIRPORT
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.19: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 13:21
BLANK TEST 0.000 13:21
INTERNAL STANDARD VERIFIED 13:22
Xg = 0.136 (0.268) 0.082 13:22
EXTERNAL STANDARD I[1] = 0.0822 (0.0802) (-0.0006) 0.000 13:23
BLANK TEST 0.000 13:23
SUBJECT SAMPLE INTERFERENCE 13:23
X[1] = 0.0776 (-0.0145) (-0.0011)



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmr: 100687

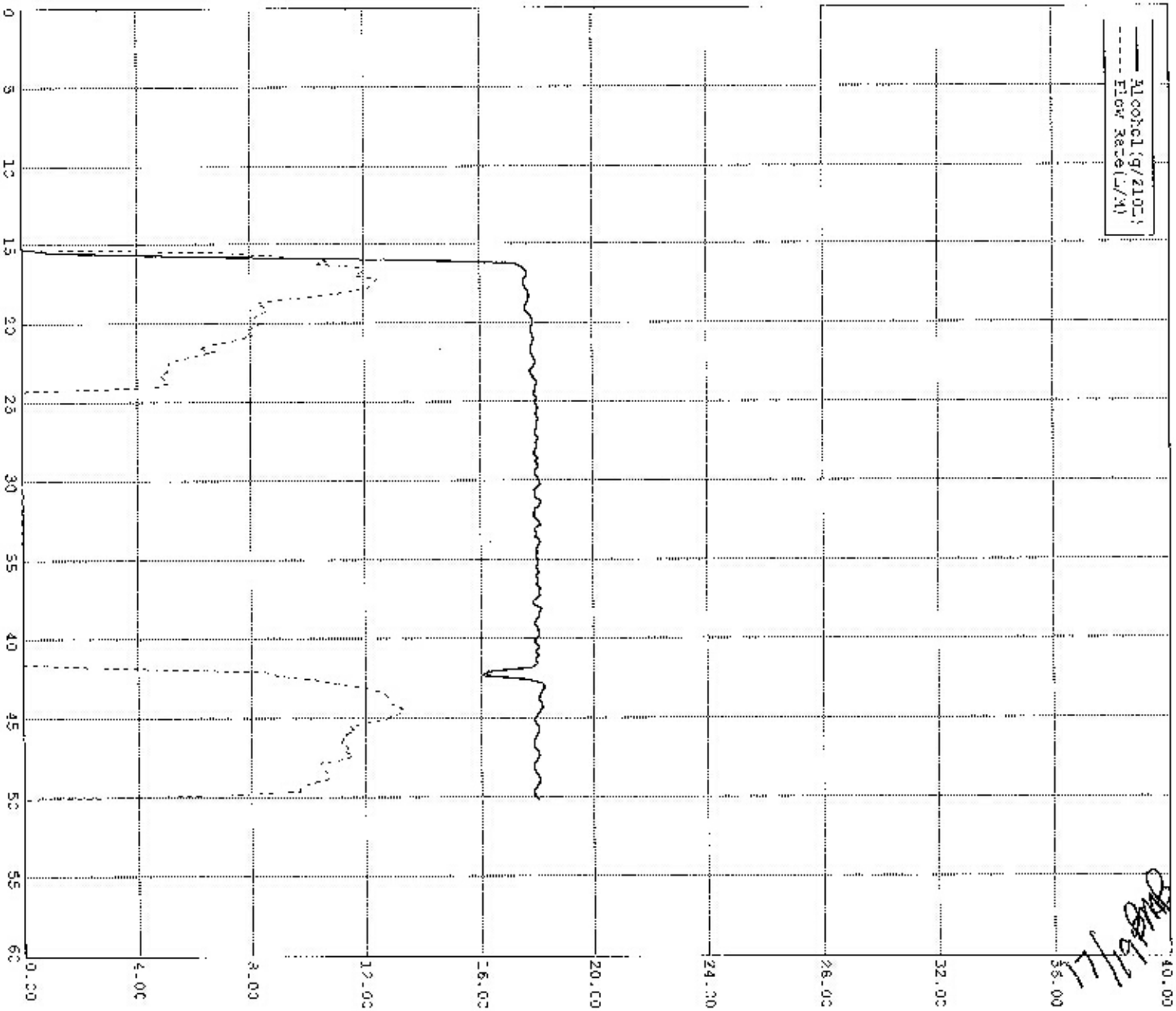
Date: 05/16/2012
 Time: 13:26:20

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERENCE
 OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 PITKANOT AND ISOROPANOT
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 MODEL#: 0.080
 TARGET AT 30.19: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:27
BLANK TEST	0.000	13:27
INTERNAL STANDARD	VERIFIED	13:27
Xq = 0.139 (2.90%)		
EXTERNAL STANDARD	0.085	13:27
X[1] = 0.0850 (0.0020)	(-0.0005)	
BLANK TEST	0.000	13:28
SUBJECT SAMPLE	INTERFERENCE	13:29
X[1] = 0.0900 (-0.0212)	(-0.0007)	



Handwritten signature and date:
 Barnett
 5/16/12

SUBJECT TEST

Alaska Department of Public Safety
 LABORATORY date: 100687

Date: 05/16/2012
 Time: 13:31:58

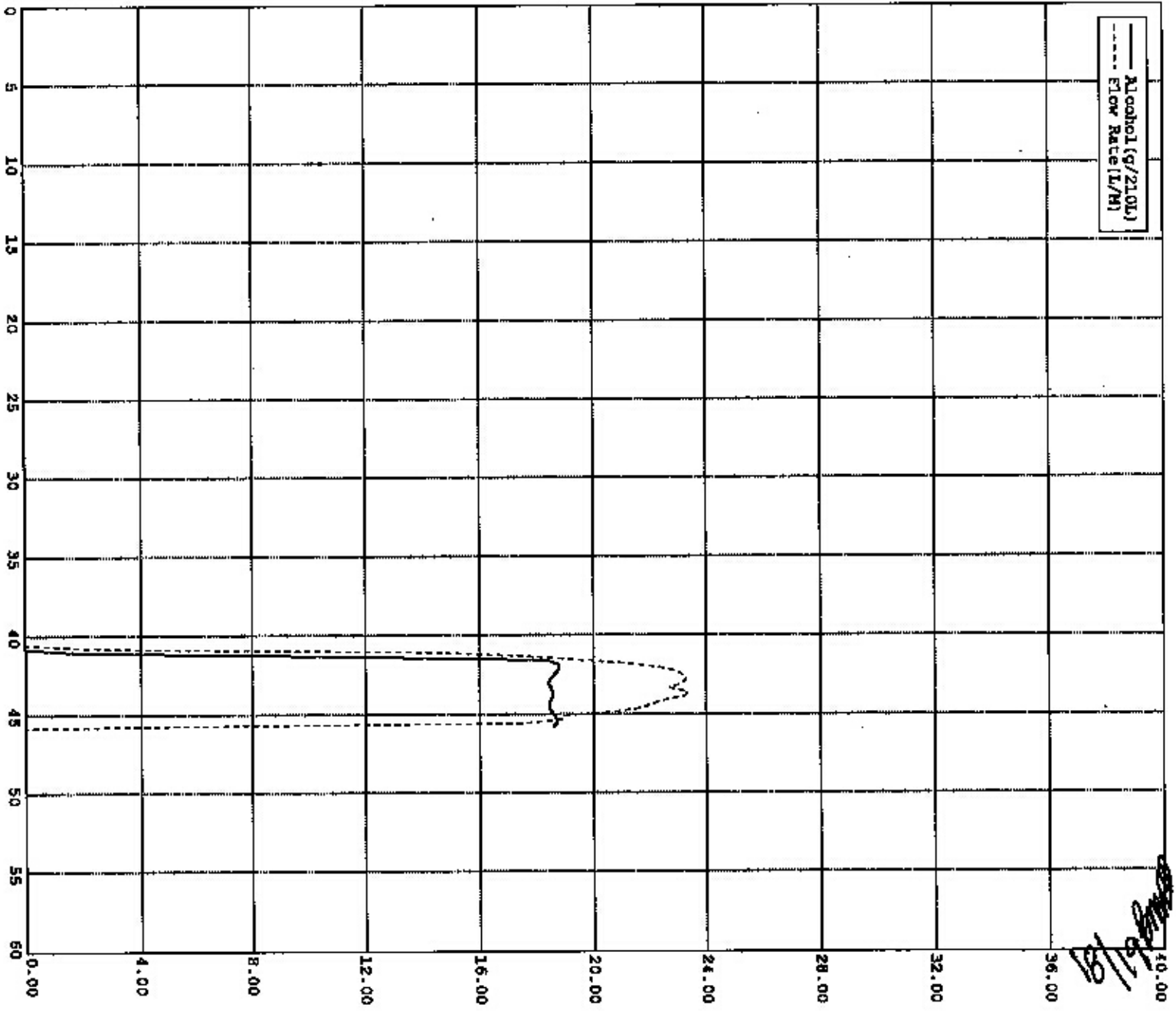
SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERREFERENCE

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.20: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 13:32
 BLANK TEST 0.000 13:33
 INTERNAL STANDARD VERIFIED 13:33
 X_g = 0.137 (1.45%)
 EXTERNAL STANDARD 0.083 13:33
 X [1] = 0.0835 (0.0017) (-0.0011)
 BLANK TEST 0.000 13:34
 SUBJECT SAMPLE (Vol=1.68L) 0.093 13:35
 X [1] = 0.0935 (-0.0012) (0.0002)
 BLANK TEST 0.000 13:36
 EXTERNAL STANDARD 0.082 13:36
 X [1] = 0.0829 (0.0006) (-0.0005)
 BLANK TEST 0.000 13:37



SUBJECT TEST

Alaska Department of Public Safety
 DATEMASTER dmc: 100687

Date: 05/16/2012
 Time: 14:30:54

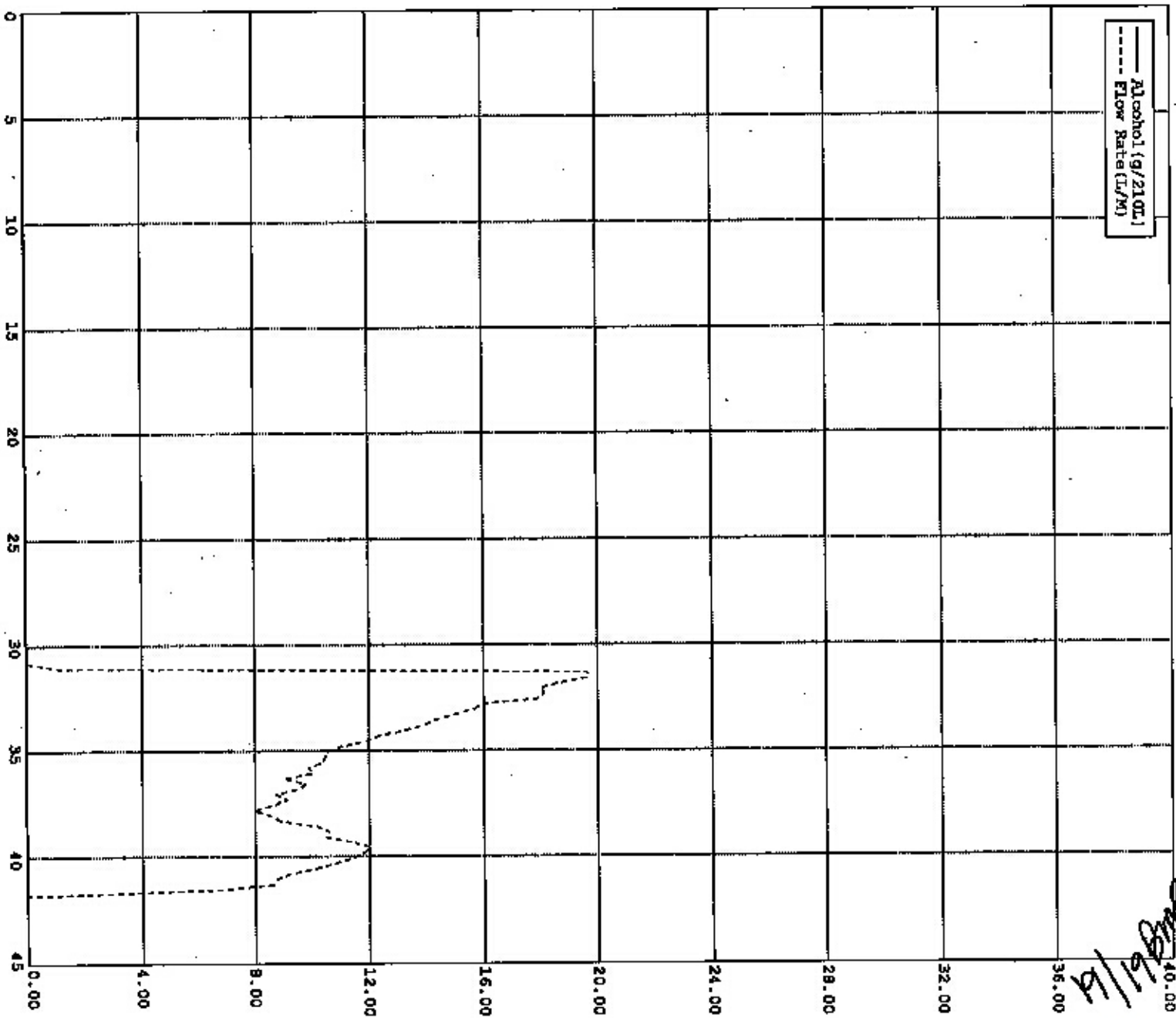
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 WEIGHT: 0.080
 TARGET AT 30.20: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:32
BLANK TEST	0.000	14:32
INTERNAL STANDARD	0.084	14:32
EXTERNAL STANDARD	0.000	14:33
BLANK TEST	0.000	14:33
SUBJECT SAMPLE	0.000	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.083	14:35
BLANK TEST	0.000	14:36



Handwritten signature: B/1/19 BMS

Final page for report

\

\\VANCSCLSAN01\JTRAX\CASEDOCS\B-100687\B-100687_ECF-20140

2/12/2014