

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100693 Analyst CTF Start Date 4/27/12
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 (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 3/1/13
- ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13
- iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14
- iv. 0.100g/210L Mnf ILMO Lot 0761100A3 Exp 3/1/13
- v. 0.200g/210L Mnf Gruth Lot 1120 Exp 7/9/13
 - 1. Simulator S/N SD1176 Date Calibrated 8/17/11
- vi. 0.300g/210L Mnf Gruth Lot 1110 Exp 7/13/13
 - 1. Simulator S/N DR4176 Date Calibrated 2/21/12

5. Functional Tests (attached)

- a. Incomplete b. Invalid
- c. Interference

- i. Acetone - Mnf Gruth Lot 11200 Level 0.080 Exp 10/11/13
 - 1. Simulator S/N SD1199 Date Calibrated 1/11/12
- ii. Isopropanol - Mnf Gruth Lot 10880 Level 0.080 Exp 11/17/12
 - 1. Simulator S/N DR6267 Date Calibrated 1/10/12
- iii. Negative Control - Mnf Gruth Lot 11250 Level 0.100 Exp 12/6/13
 - 1. Simulator S/N SD1202 Date Calibrated 8/17/11

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 4/30/12

Page 1 of 1

All printed copies are uncontrolled.

Approved by: 1/19 LF Forensic Alcohol Supervisor

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dnt: 100693

Date: 04/27/2012
Time: 10:57:23

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C PASSED
Breath Tube = 47.6°C PASSED

PUMP INFO

Flow Rate = 4.693 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
WF

Technician Screen

DATAMASTER dnt: 100693

Date: 04/27/2012

Time: 11:38 AM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 47.0°C

Current Barometer 29.6 in

Volume (Ltr) 1.44

Settings

Lamp: 1.67 V

Bias: 80 V

Cooler: 1.70 V

Chopper: 537 Hz

Voltages (V)

Flow: 1.03 V

Detector: -0.021 V

3/19
LF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100693

Date: 11/02/2011
Time: 05:54:56

Ca = 0.1000
CAL = 1.001437 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0040 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xg = 0.0878 0.0500 <= Xg < 0.2000
a21 = 1.143251 1.050 <= a21 < 1.300
a31 = 0.401134 0.300 <= a31 < 0.800

4/19
✓

SUBJECT TEST

Alaska Department of Public Safety
 DATABASE dnt: 100693

Date: 04/27/2012
 Time: 13:23:35

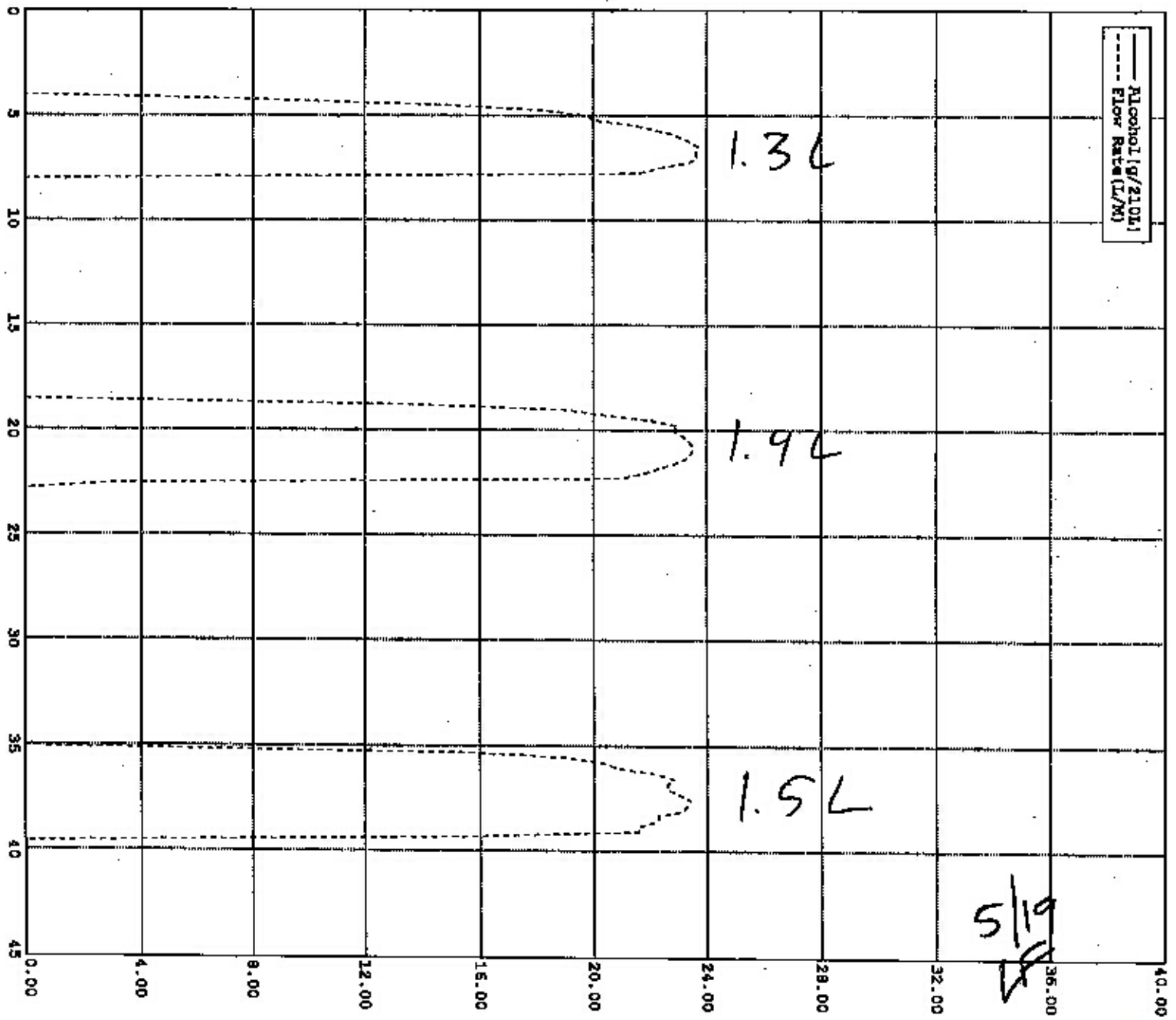
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUMES
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 INTERNAL: 0.080
 TARGET AT 29.57: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:26
BLANK TEST	0.000	13:26
INTERNAL STANDARD	VERIFIED	13:26
EXTERNAL STANDARD	0.078	13:26
BLANK TEST	0.000	13:27
SUBJECT SAMPLE	0.000	13:28
BLANK TEST	0.000	13:29
INTERNAL STANDARD	0.079	13:29
BLANK TEST	0.000	13:30



LINEARITY CHECK

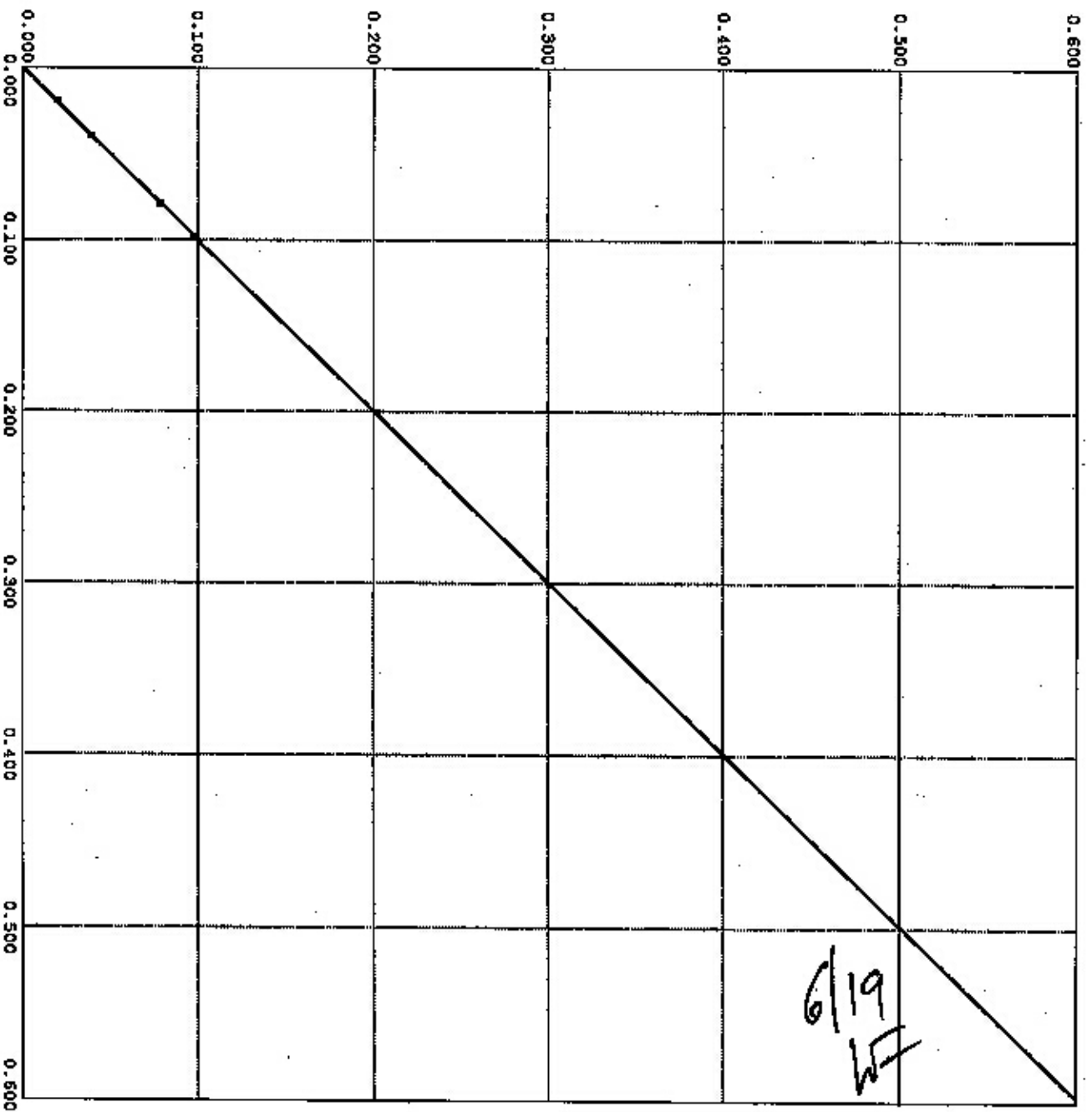
Alaska Department of Public Safety
 DATANMASTER dmc: 100693

Date: 04/27/2012
 Time: 13:52:01

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.015	0.0205	0.0002
0.039	0.0399	0.0002
0.079	0.0789	0.0003
0.098	0.0985	0.0002
0.200	0.2024	0.0004
0.300	0.3017	0.0005

STOPE = 1.004462
 R² = 0.999949



LINEARITY CHECK: Control Test 1

 Alaska Department of Public Safety
 DATAMASTER dmt: 100693

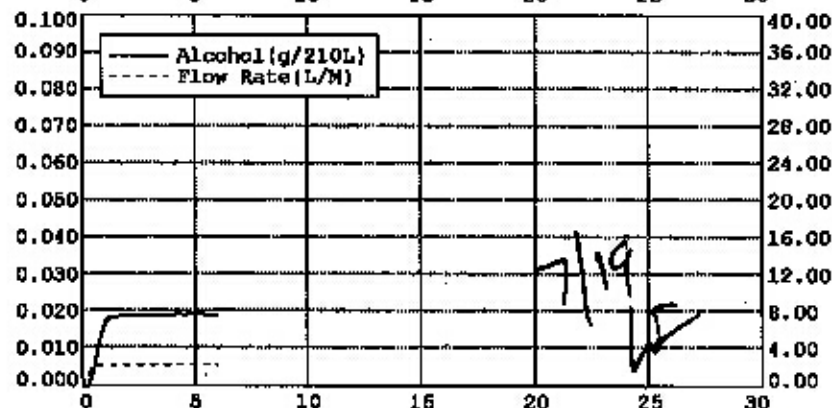
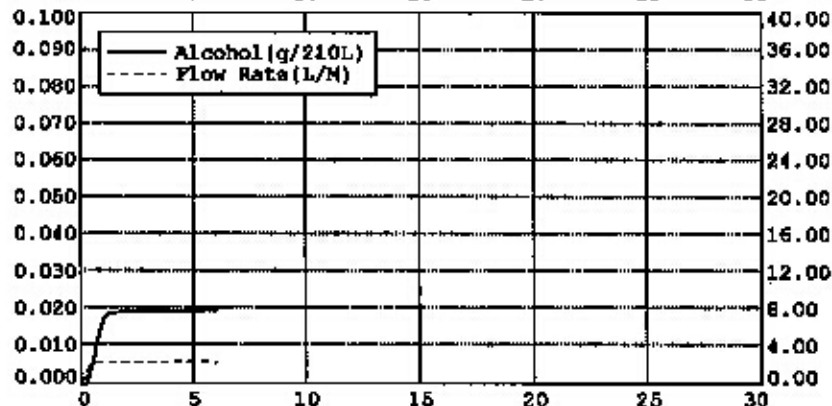
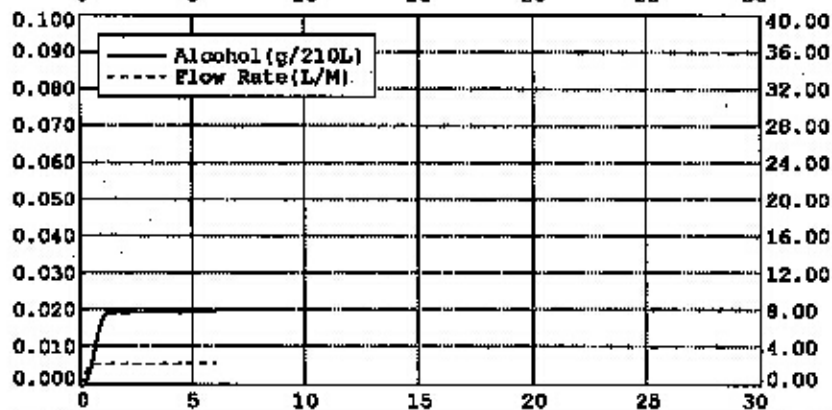
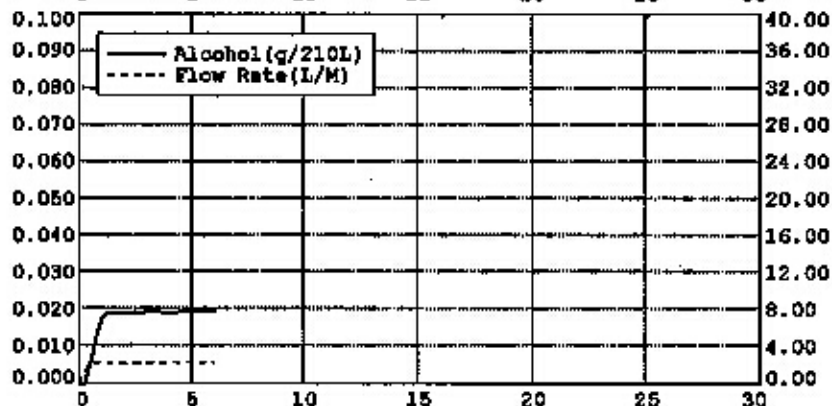
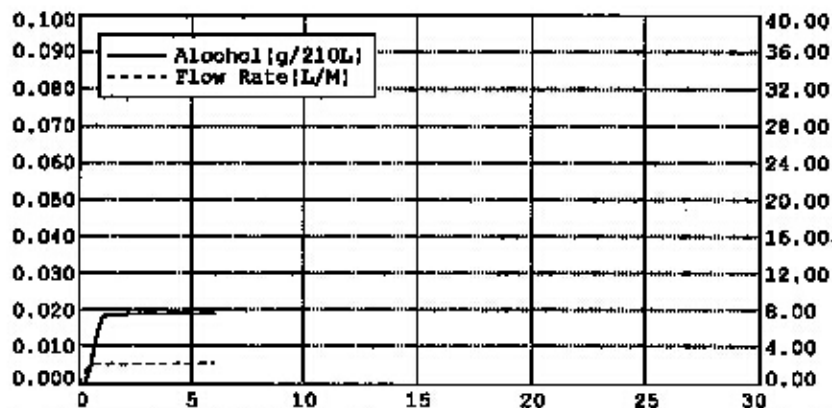
Date: 04/27/2012
 Time: 13:52:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.57: 0.019
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:03
EXTERNAL STANDARD	0.020	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.020	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.020	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.020	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.020	14:08
BLANK TEST	0.000	14:08

Average = 0.0205
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt, 100693

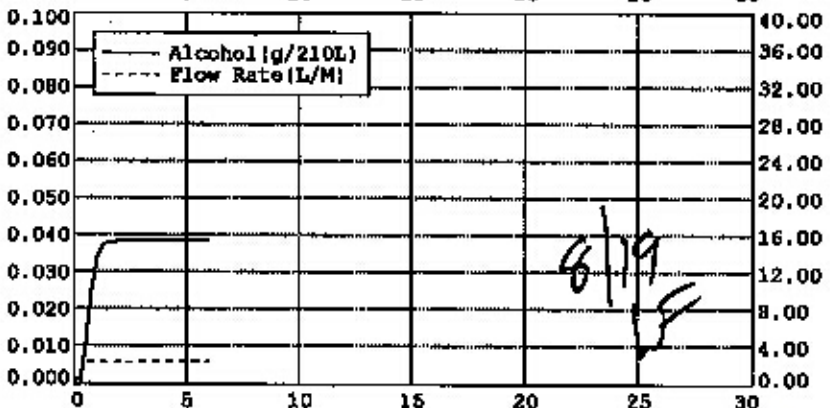
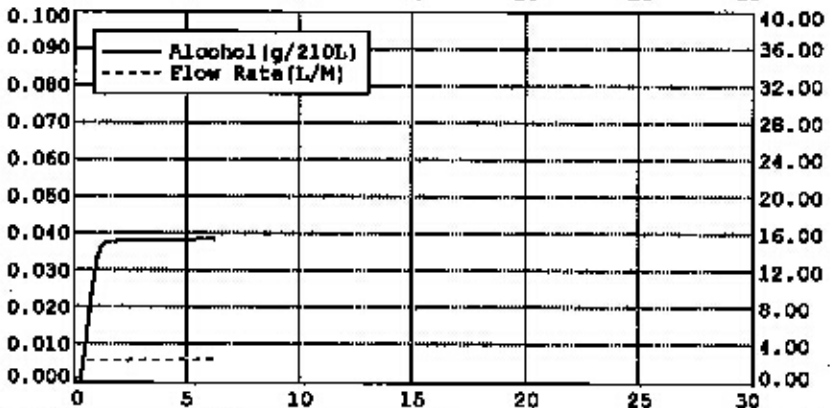
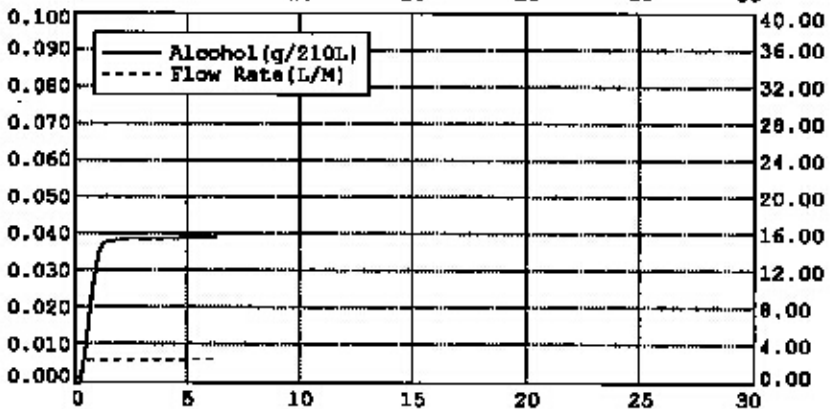
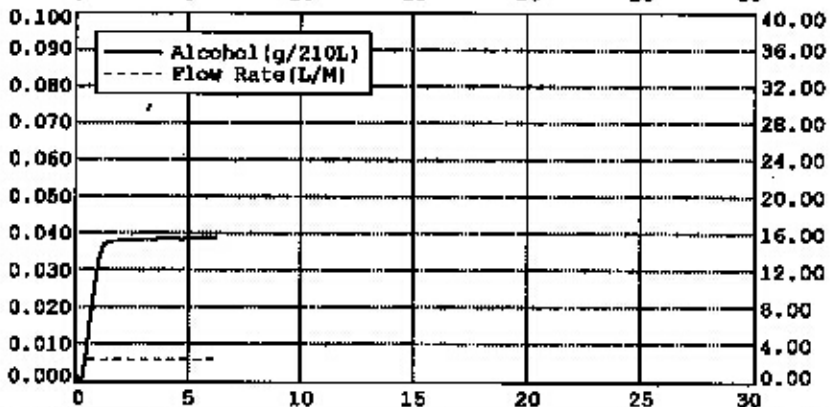
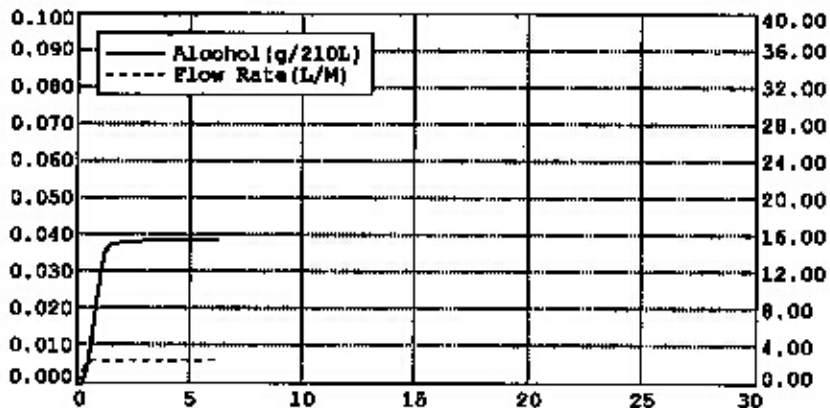
Date: 04/27/2012
 Time: 14:09:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.56: 0.039
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:12
EXTERNAL STANDARD	0.040	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.039	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.040	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.039	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.039	14:17
BLANK TEST	0.000	14:17

Average = 0.0399
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dnt: 100693

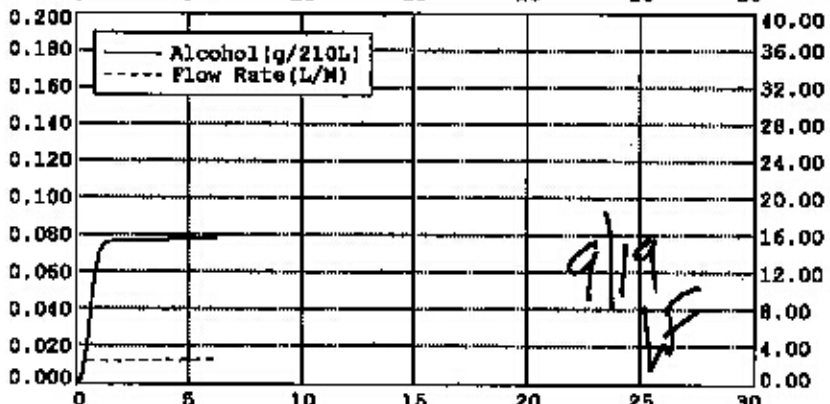
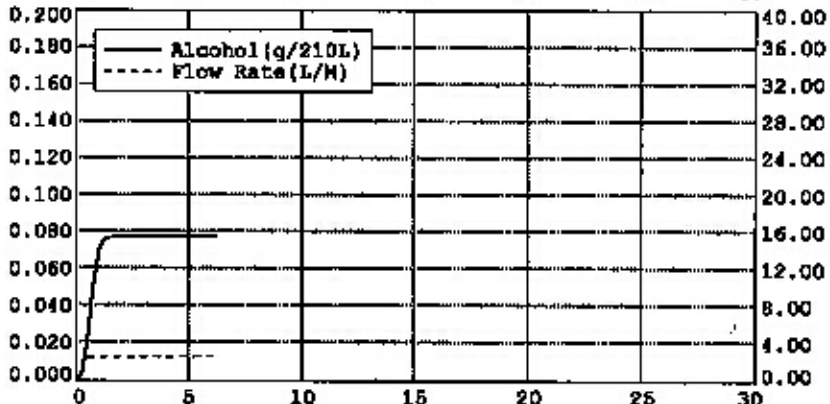
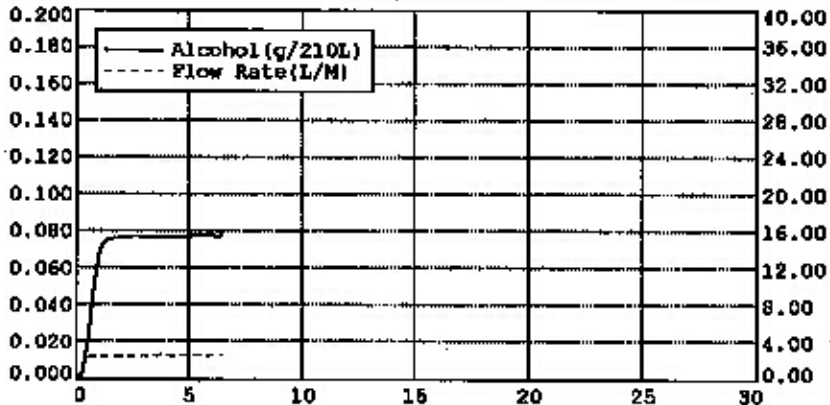
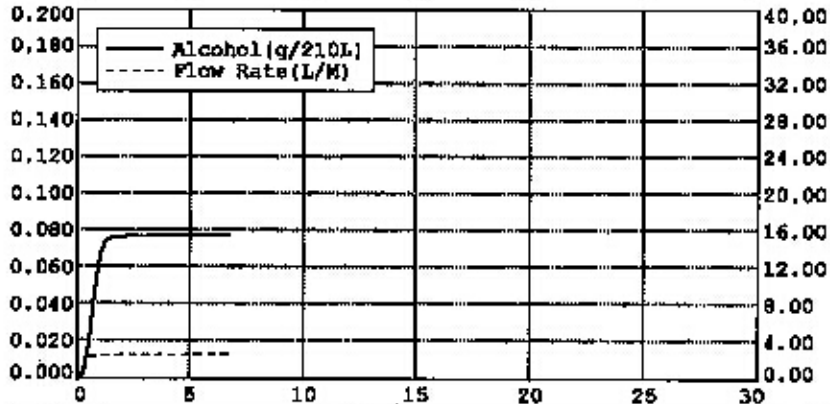
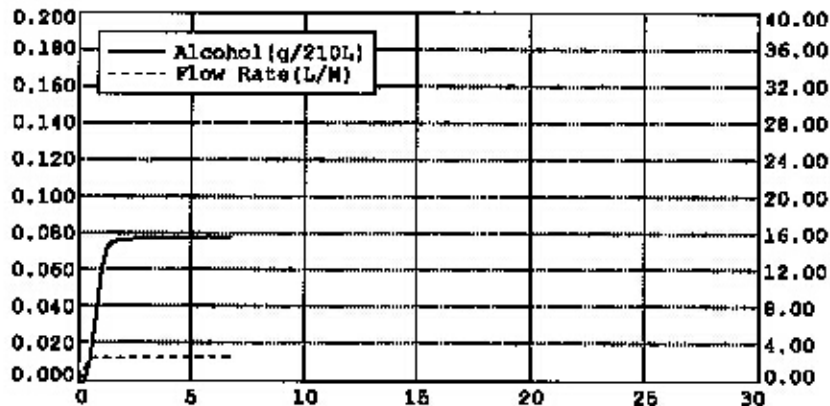
Date: 04/27/2012
 Time: 14:21:20

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.56: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	14:22
INTERNAL STANDARD	VERIFIED	14:22
EXTERNAL STANDARD	0.079	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.078	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.078	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.079	14:26
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.079	14:27
BLANK TEST	0.000	14:28

Average = 0.0789
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

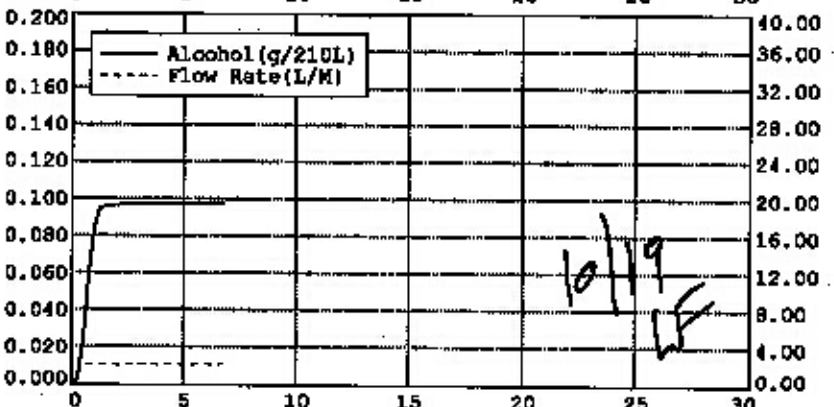
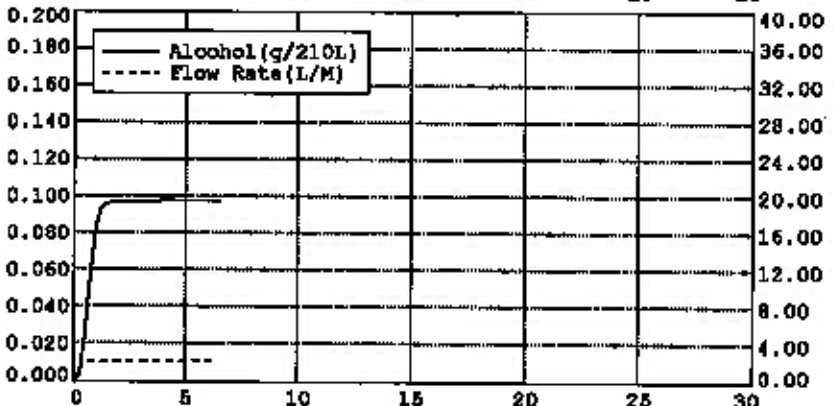
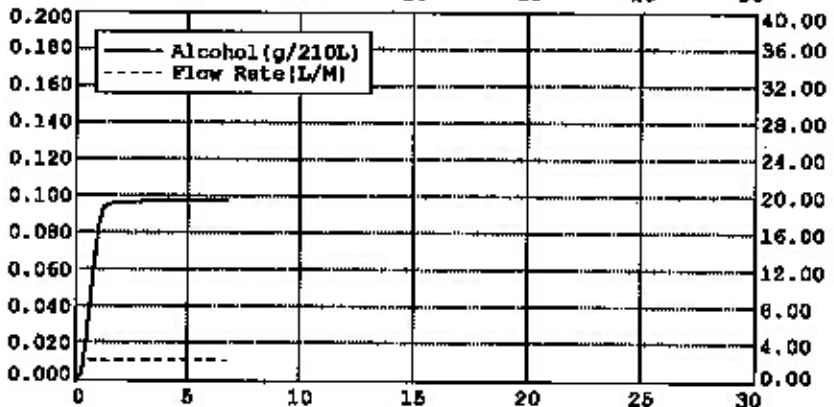
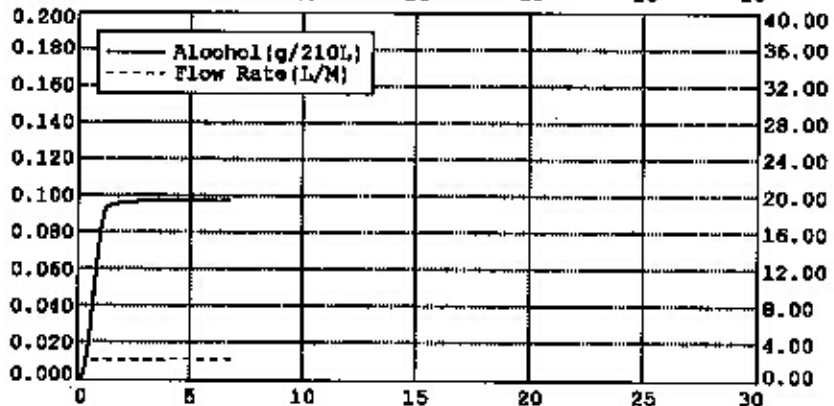
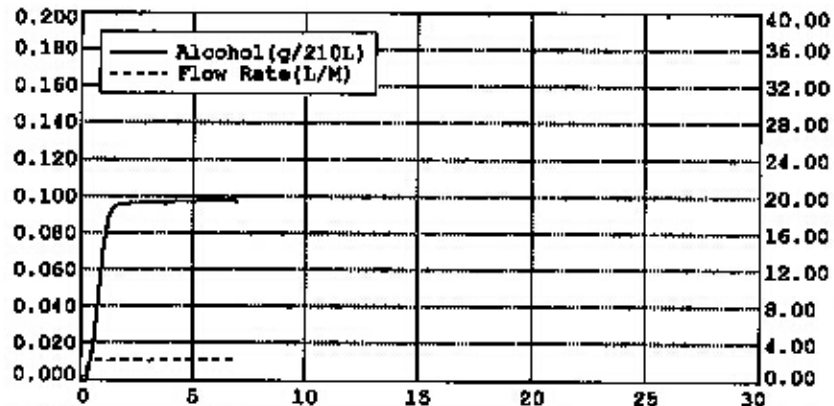
Alaska Department of Public Safety
 DATAMASTER dnt: 100693

Date: 04/27/2012
 Time: 14:31:37

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AT 29.57; 0.098
 LOT #: 0761110023
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:32
INTERNAL STANDARD	VERIFIED	14:32
EXTERNAL STANDARD	0.098	14:33
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.098	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.098	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.098	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.098	14:37
BLANK TEST	0.000	14:38

Average = 0.0985
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmc: 100693

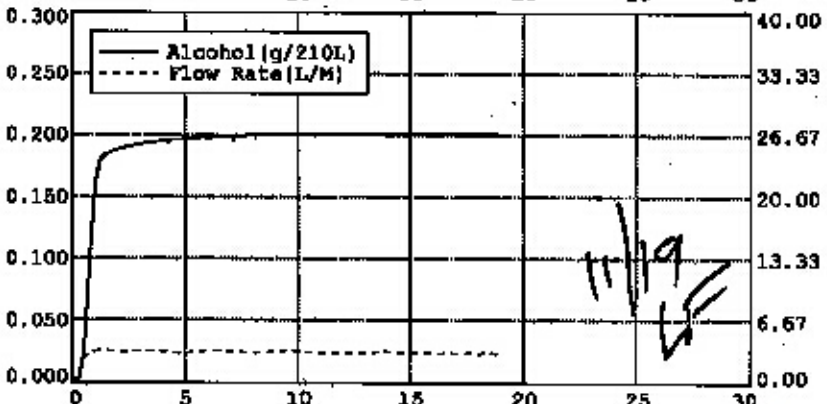
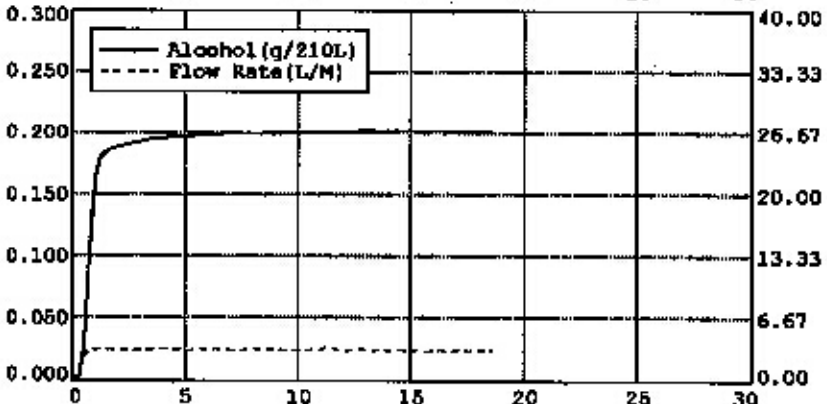
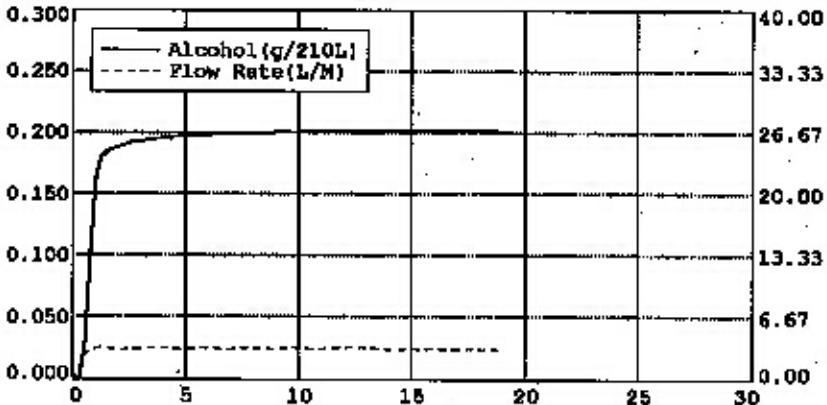
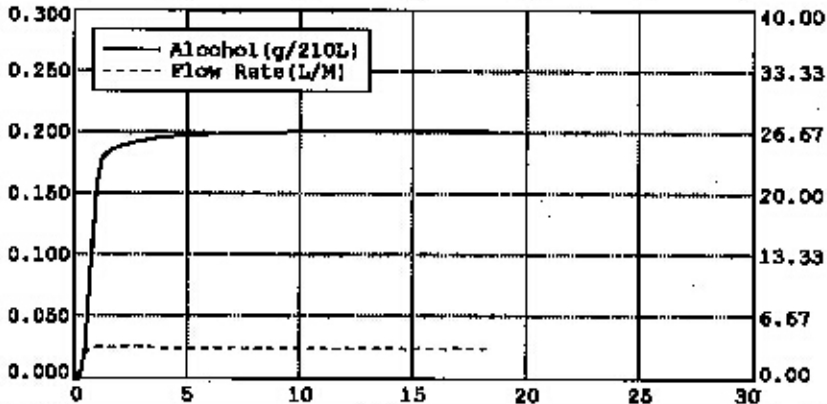
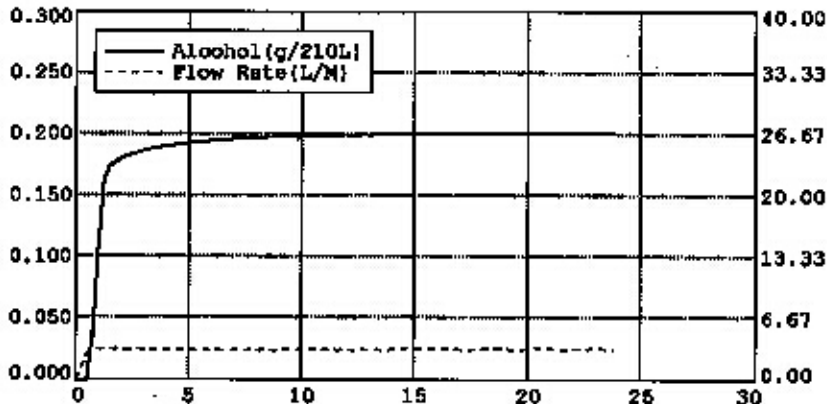
Date: 04/27/2012
 Time: 14:40:44

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.201	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.202	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.202	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.202	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.202	14:47
BLANK TEST	0.000	14:48

Average = 0.2024
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dnt: 100693

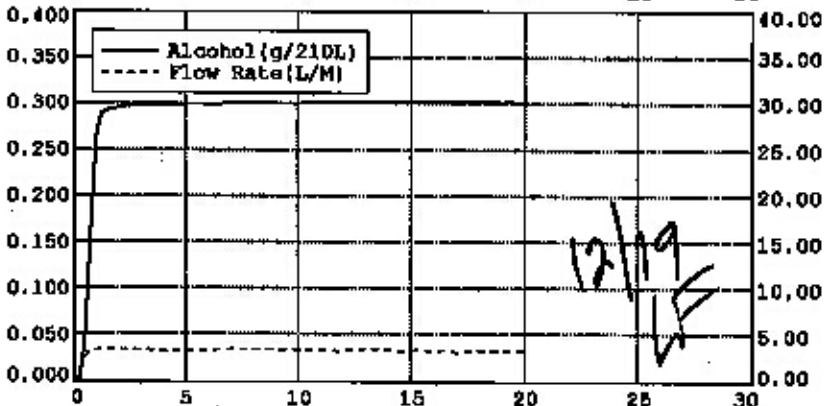
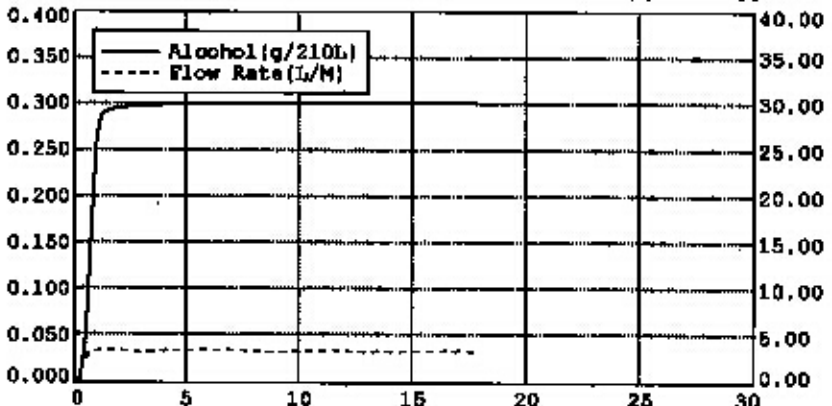
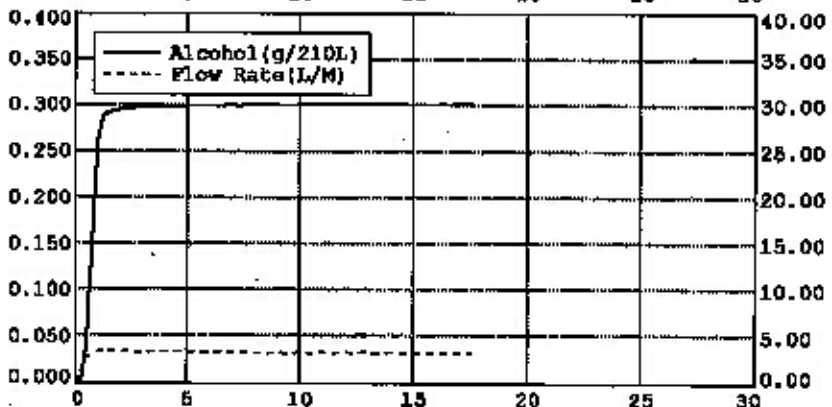
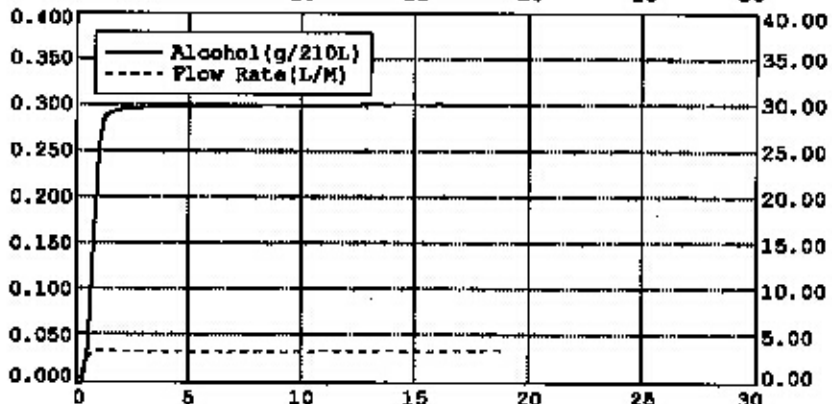
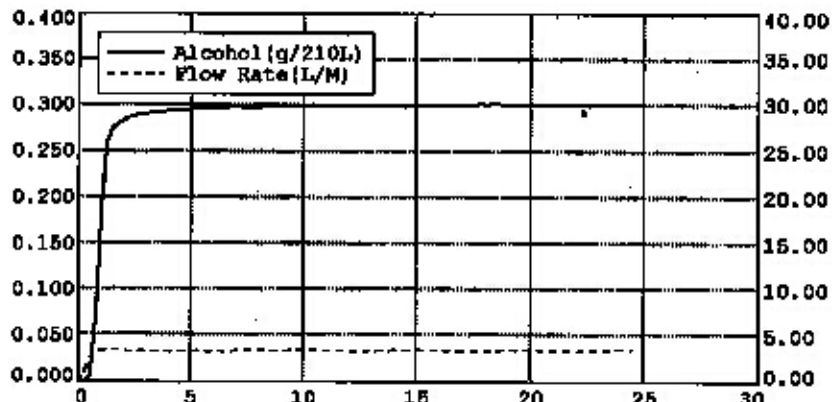
Date: 04/27/2012
 Time: 14:50:49

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:51
INTERNAL STANDARD	VERIFIED	14:52
EXTERNAL STANDARD	0.301	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.300	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.301	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.301	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.302	14:57
BLANK TEST	0.000	14:58

Average = 0.3017
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
LABORATORY dnt: 100693

Date: 04/30/2012
Time: 08:22:35

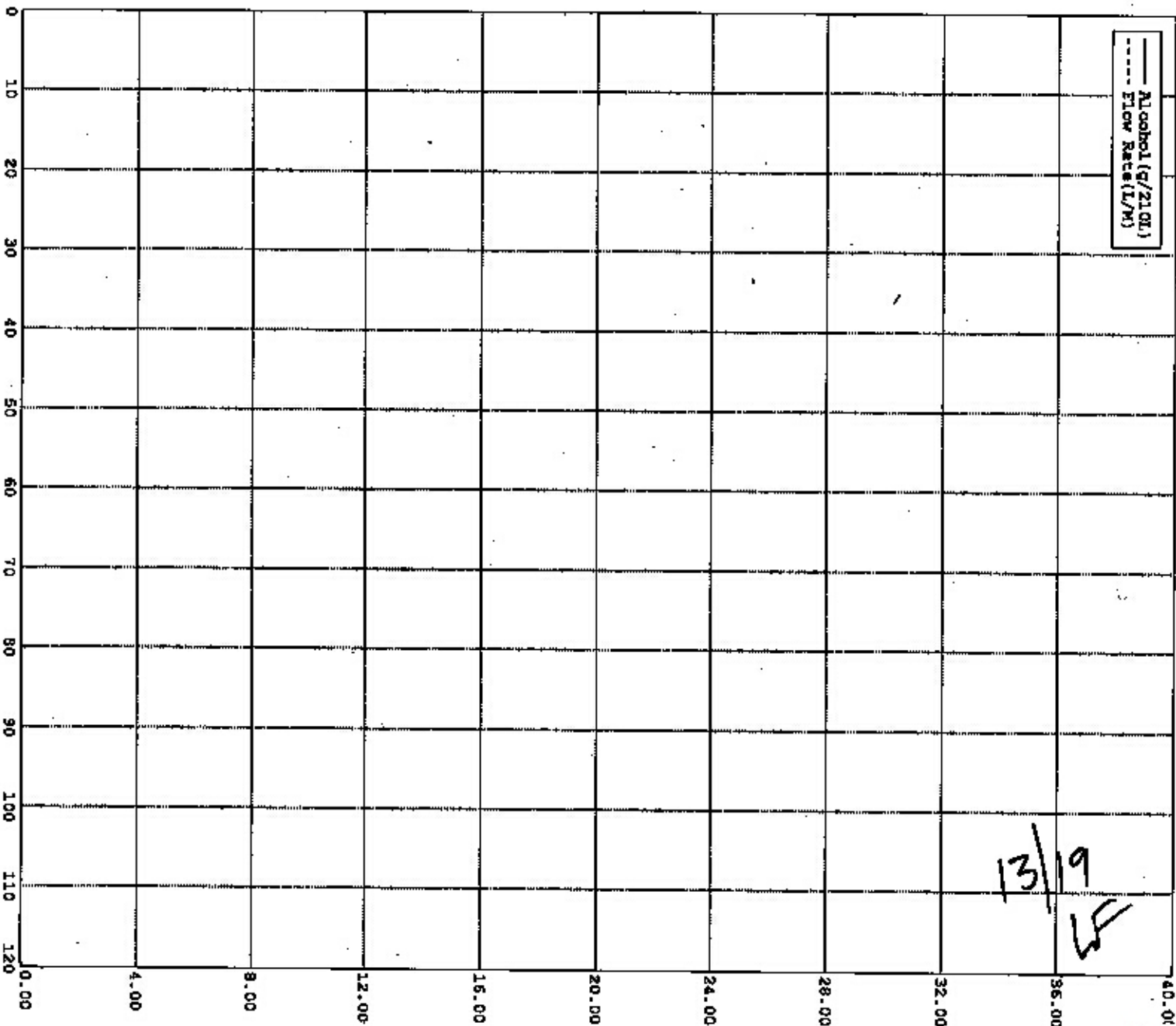
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.51: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:26
BLANK TEST	0.000	08:26
INTERNAL STANDARD	VERIFIED	08:26
EXTERNAL STANDARD	0.078	08:27
BLANK TEST	0.000	09:28
SUBJECT SAMPLE	INCOMPLETE	08:30



SUBJECT TEST

Alaska Department of Public Safety
INSTRUMENT dmt: 100593

Date: 04/30/2012
Time: 09:28:29

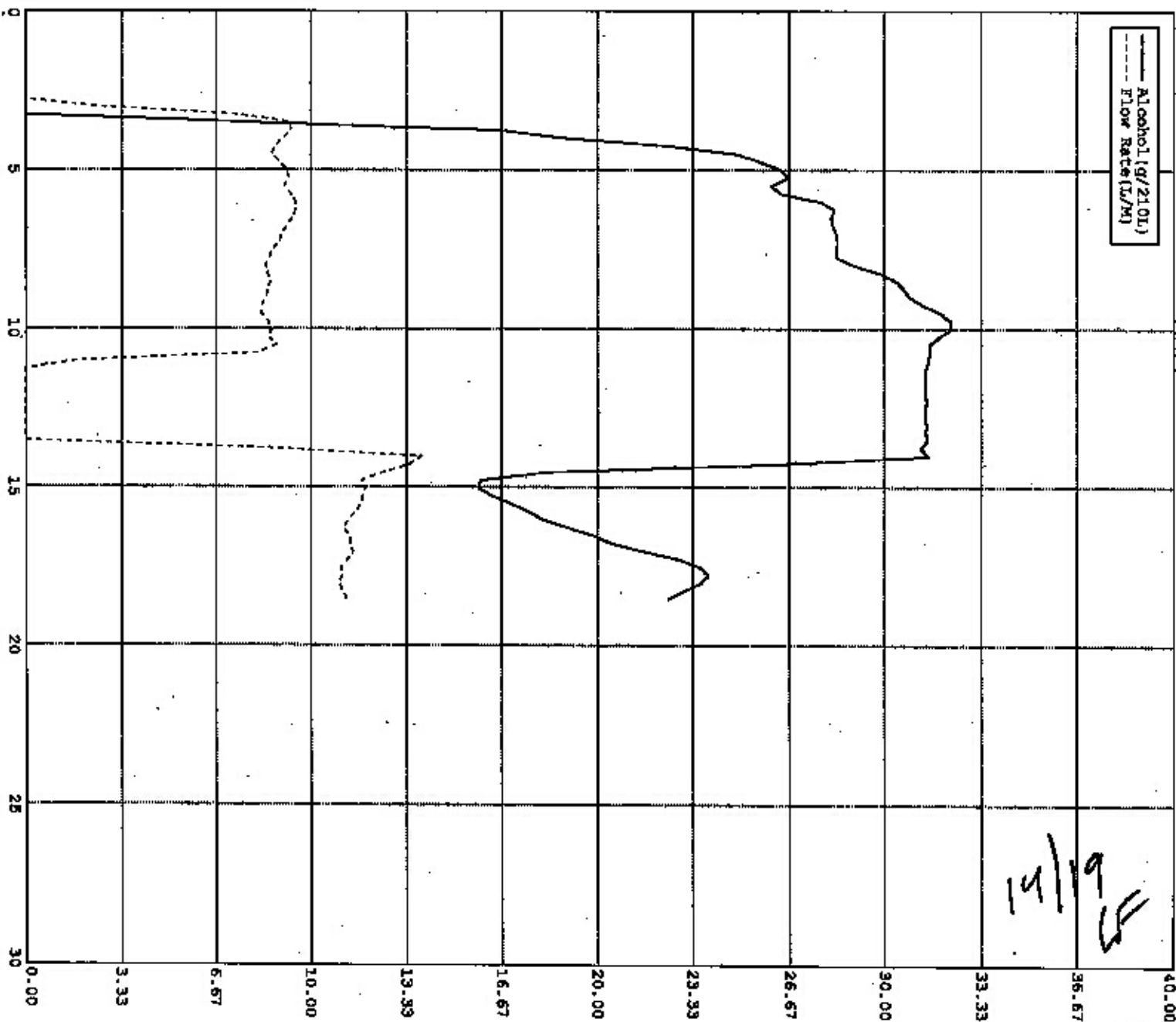
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INVALID MOTOR ECHO
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.51: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:34
BIANR TEST	0.000	09:34
INTERNAL STANDARD	VERIFIED	09:34
EXTERNAL STANDARD	0.078	09:35
BIANR TEST	0.000	09:35
SUBJECT SAMPLE	INVALID	09:36



SUBJECT TEST

Alaska Department of Public Safety
DATANUMBER dnt: 100693

Date: 04/30/2012
Time: 10:13:07

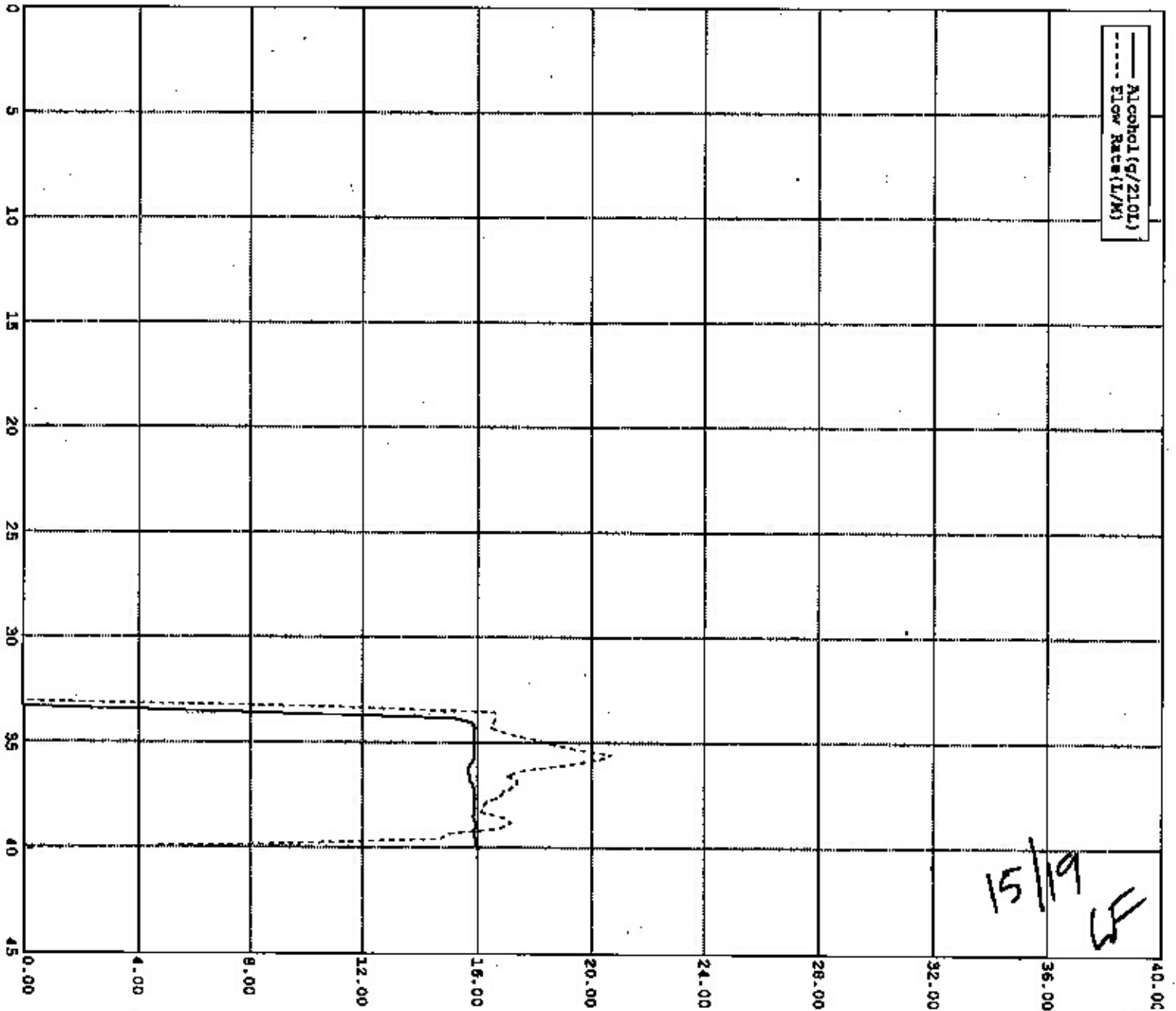
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE FIOH AND ACETONE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AM 29.51: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	10:15
INTERNAL STANDARD	VERIFIED	10:15
Xg = 0.088 (0.004)		
EXTERNAL STANDARD	0.078	10:15
X[1] = 0.0783 (-0.0001) (0.0032)		
BLANK TEST	0.000	10:16
SUBJECT SAMPLES	INTERFERENCE	10:17
X[1] = 0.0807 (-0.0122) (0.0007)		



SUBJECT TEST

Alaska Department of Public Safety
 DATABASE dmt: 100693

Date: 04/30/2012
 Time: 11:02:01

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE FICB AND IPA
 OPERATOR'S #: XXXX

DEPT/AGENCY:

XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

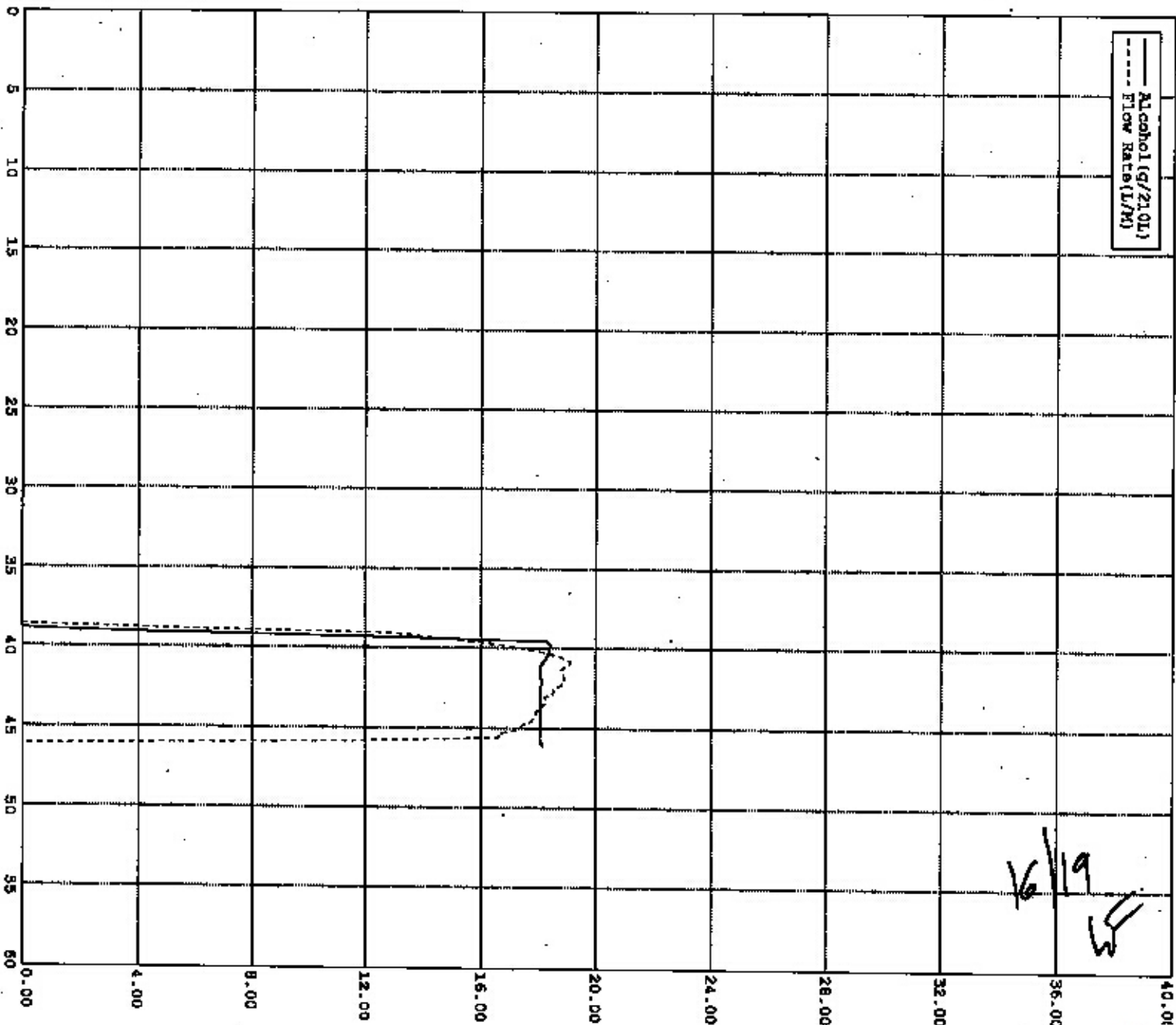
EXTERNAL STANDARD INFORMATION

WGT/ML: 0.080
 TARGET AT 29.51: 0.078
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK PASSED 11:03
 BLANK TEST 0.000 11:04
 INTERNAL STANDARD VERIFIED 11:04

Eg = 0.088 (0.004) 0.078 11:04
 EXTERNAL STANDARD X[1] = 0.0784 (-0.0001) (0.0027) 11:05

BLANK TEST 0.000 11:05
 SUBJECT SAMPLE INTERFERENCE 11:06
 X[1] = 0.0913 (-0.0196) (0.0019)



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnm: 100693

Date: 04/30/2012
 Time: 11:16:43

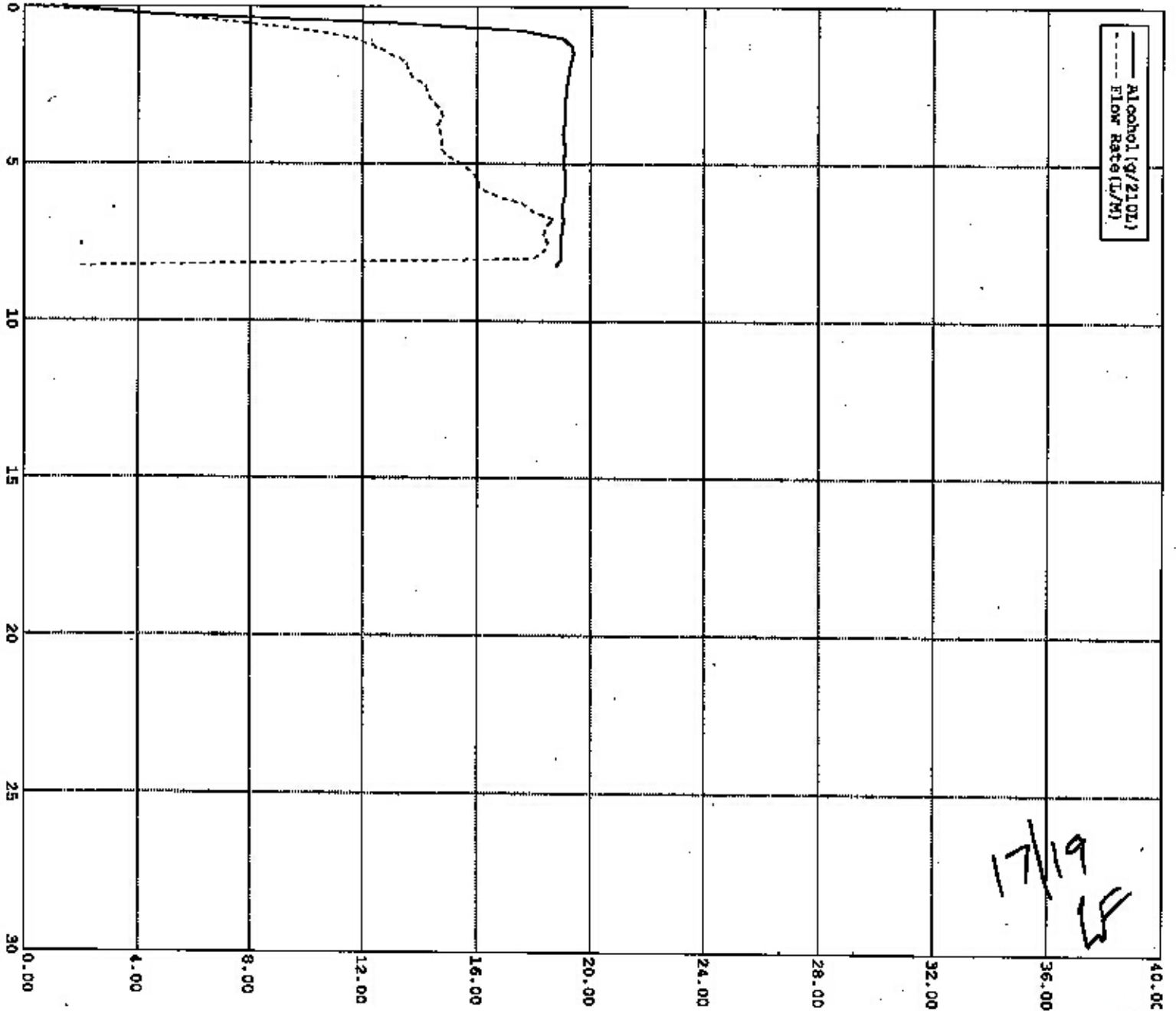
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE FTOH ONLY
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NORMAL: 0.080
 RANGE AT 29.51: 0.078
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	ASSESSED	11:18
BLANK TEST	0.000	11:18
INTERNAL STANDARD	VERIFIED	11:18
X[1] = 0.088 (0.10%)		
EXTERNAL STANDARD	0.078	11:18
X[1] = 0.0785 (0.0004)	0.000	11:19
BLANK TEST	0.000	11:19
SUBJECT SAMPLE (Vol=1.97L)	0.095	11:19
X[1] = 0.0950 (-0.0007)	0.000	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.078	11:21
X[1] = 0.0782 (0.0002)	0.000	11:21
BLANK TEST	0.000	11:21



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER ddt: 100693

Date: 04/30/2012
 Time: 11:40:21

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

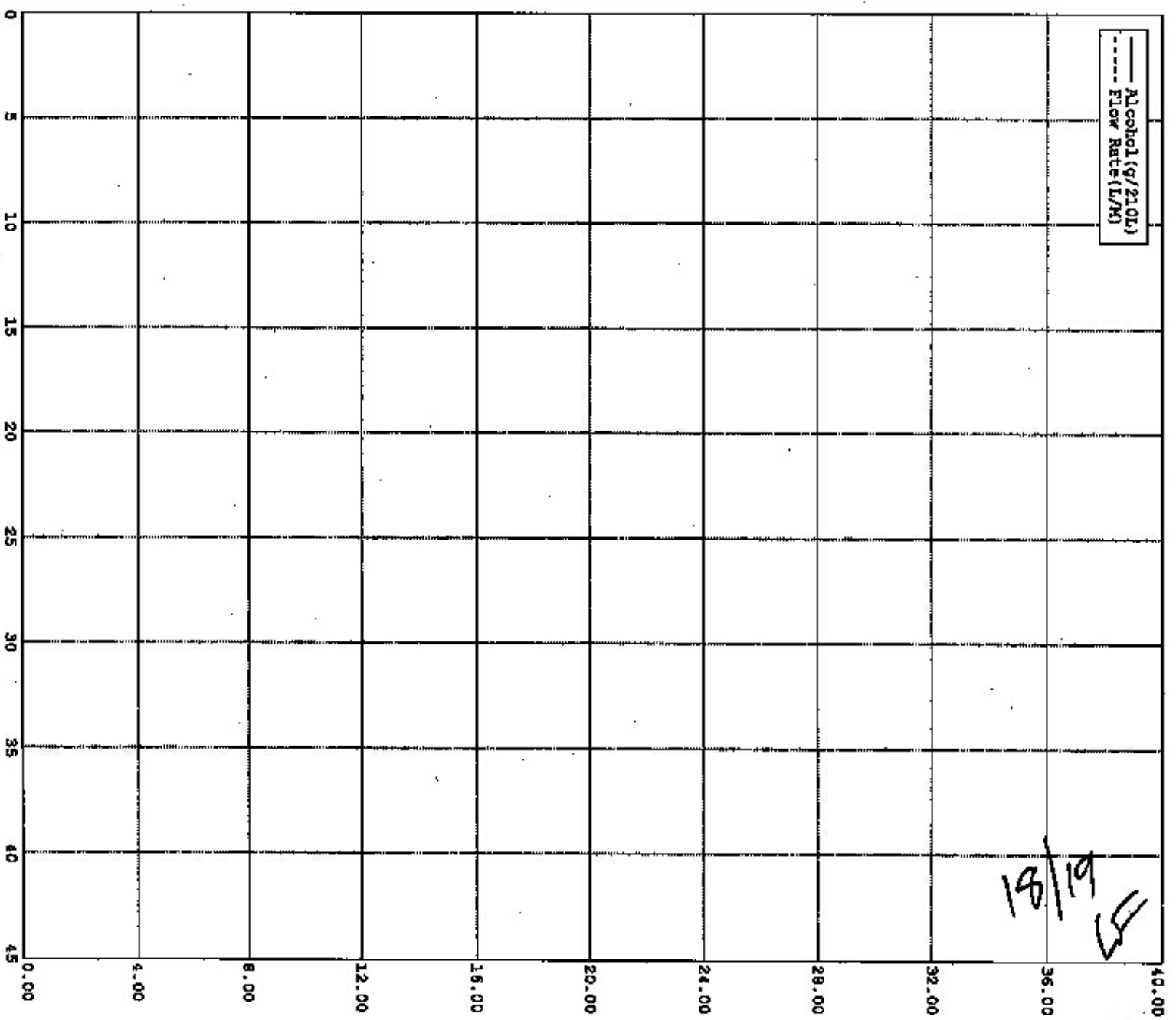
OPERATOR NAME:
 RAT XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AC 29.51: 0.078
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:43
BLANK TEST	0.000	11:43
INTERNAL STANDARD	VERIFIED	11:43
EXTERNAL STANDARD	0.079	11:44
BLANK TEST	0.000	11:45

HEI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATUMASTER dmc: 100693

Date: 04/30/2012
Time: 13:43:26

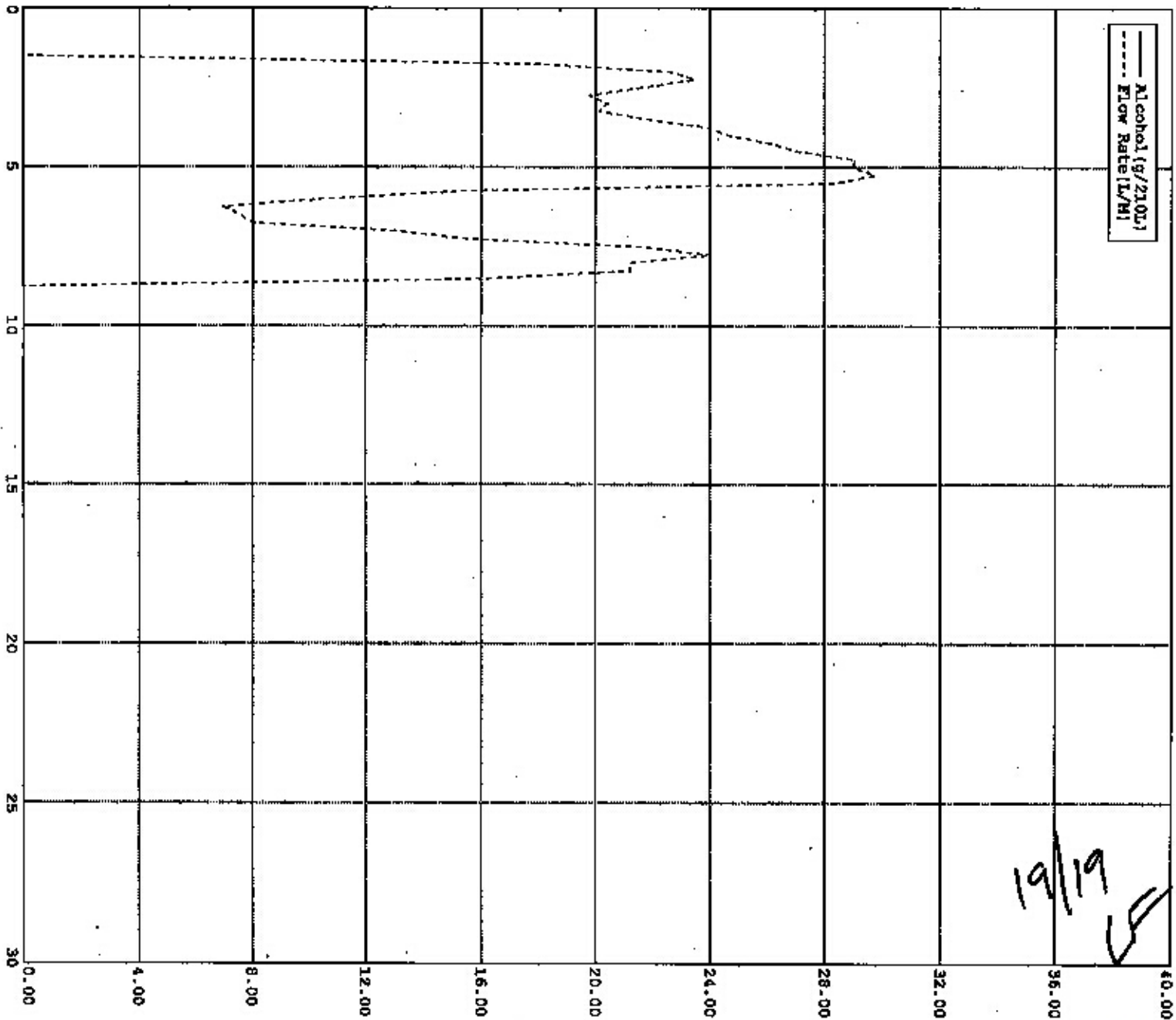
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CHARLES FOSTER
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOISE: 0.080
TARGET AT 29.49: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:47
BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
EXTERNAL STANDARD	0.079	13:47
BLANK TEST	0.000	13:48
SUBJECT SAMPLE	0.000	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.078	13:50
BLANK TEST	0.000	13:51



Final page for report

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2/12/2014