

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100378 Analyst CRF 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 02012040A1 Exp 3/1/14

iv. 0.100g/210L Mnf ILMO Lot 0761100A3 Exp 3/1/13

v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/13

1. Simulator S/N SD1176 Date Calibrated 8/17/11

vi. 0.300g/210L Mnf Guth 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 Guth Lot 11200 Level 0.080 Exp 10/11/13

1. Simulator S/N SD1199 Date Calibrated 1/11/12

ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/12

1. Simulator S/N DR6267 Date Calibrated 1/10/12

iii. Negative Control - Mnf Guth 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

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dnt: 100378

Date: 04/27/2012
Time: 10:54:01

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 4.997 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: 100378

Date: 04/27/2012

Time: 11:06 AM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 47.9°C

Current Barometer: 29.6 in

Volume (Ltr): 1.49

Settings

Lamp: 1.58 V

Bias: 80 V

Cooler: 1.60 V

Chopper: 542 Hz

Voltages (V)

Flow: 1.05 V

Detector: -0.078 V

3/19
WF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER cnt: 100378

Date: 03/02/2011
Time: 16:36:22

Ca	=	0.1000		
CAL	=	0.979544	0.800	<= CAL < 1.200
b1	=	0.0003	0.0000	<= b1 < 0.0040
b2	=	0.0051	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0794	0.0500	<= Xq < 0.2000
a21	=	1.179335	1.050	<= a21 < 1.300
a31	=	0.448413	0.300	<= a31 < 0.800

4/19
CF

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100378

Date: 04/27/2012
Time: 13:23:25

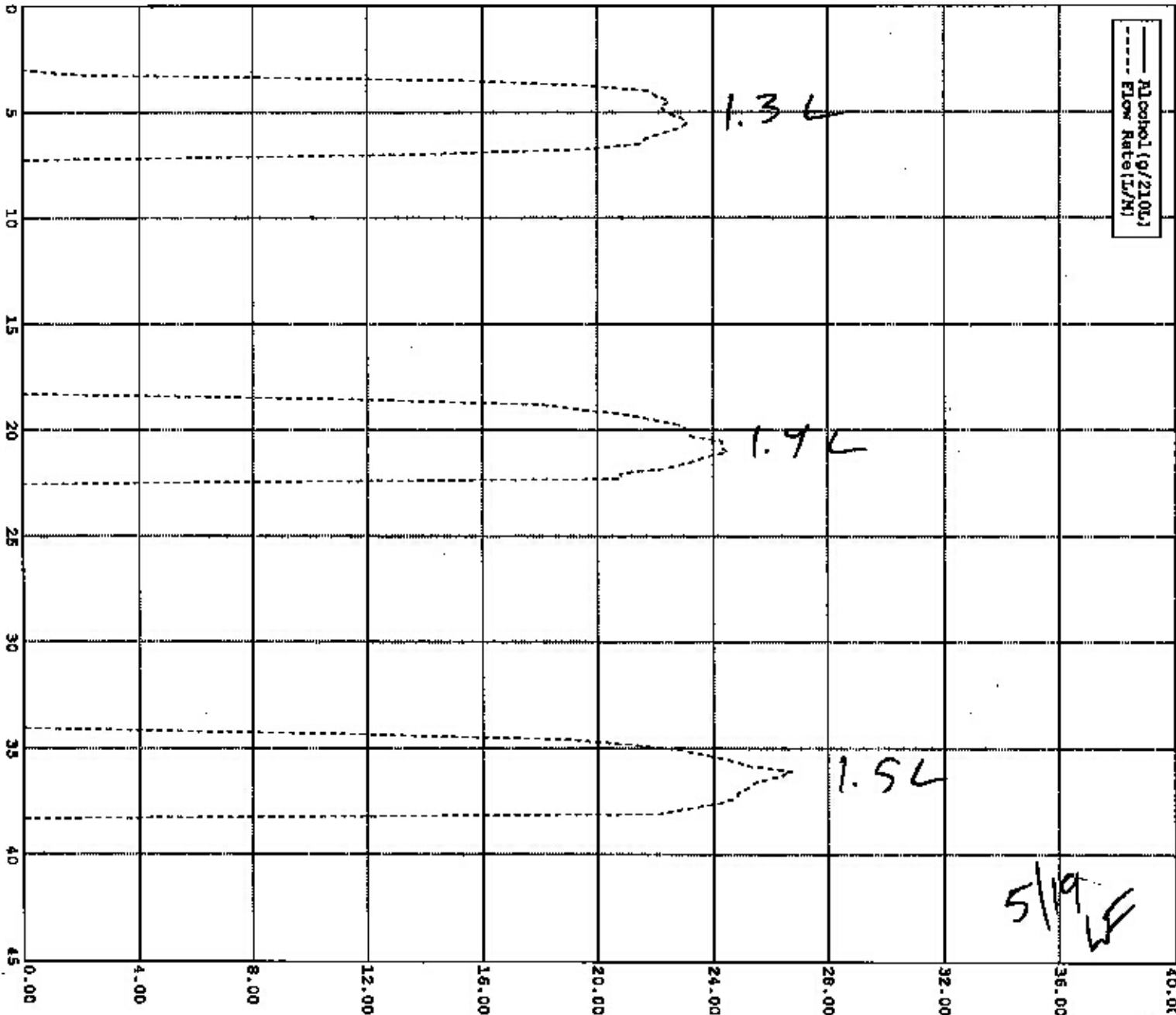
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.56: 0.079
LOT #: 07511080AL
EXPIRATION: 03/31/2013

DIAGNOSTIC CHECK	PASSED	13:27
BLANK TEST	0.000	13:27
INTERNAL STANDARD	VERIFIED	13:27
EXTERNAL STANDARD	0.078	13:28
BLANK TEST	0.000	13:28
SUBJECT SAMPLE	0.000	13:29
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.078	13:30
BLANK TEST	0.000	13:31



LINEARITY CHECK

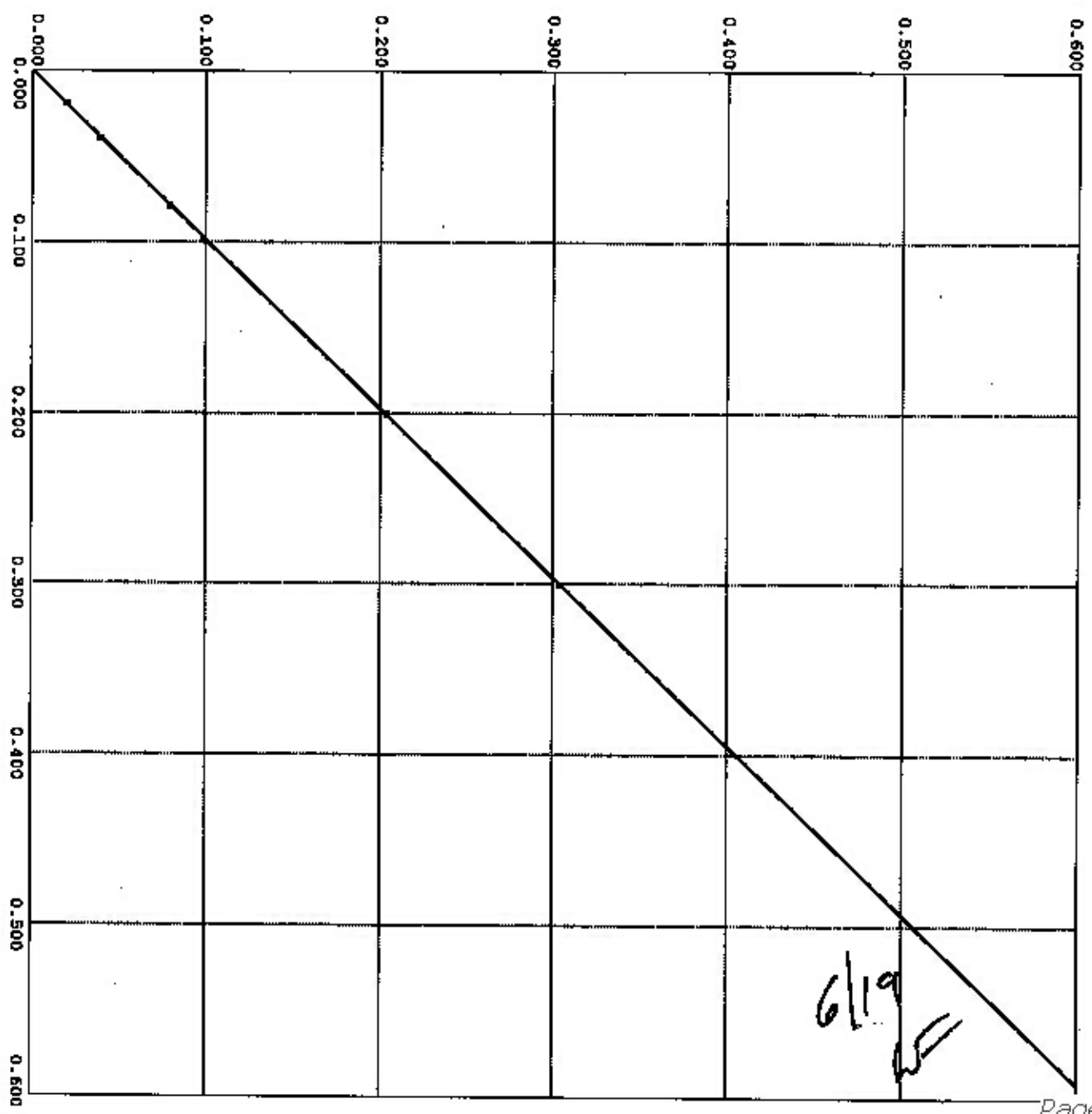
Alaska Department of Public Safety
 DATAMASTER dmr: 100378

Date: 04/27/2012
 Time: 13:57:31

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7134

TARGET	AVERAGE	STD. DEV.
0.019	0.0208	0.0002
0.039	0.0403	0.0003
0.079	0.0800	0.0003
0.098	0.0998	0.0005
0.200	0.2046	0.0003
0.300	0.3049	0.0004

SLOPE = 1.014911
 R² = 0.999958



LINEARITY CHECK: Control Test 1

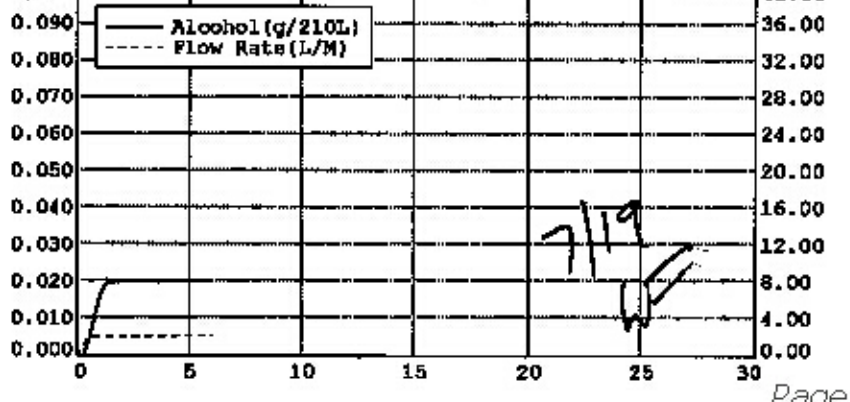
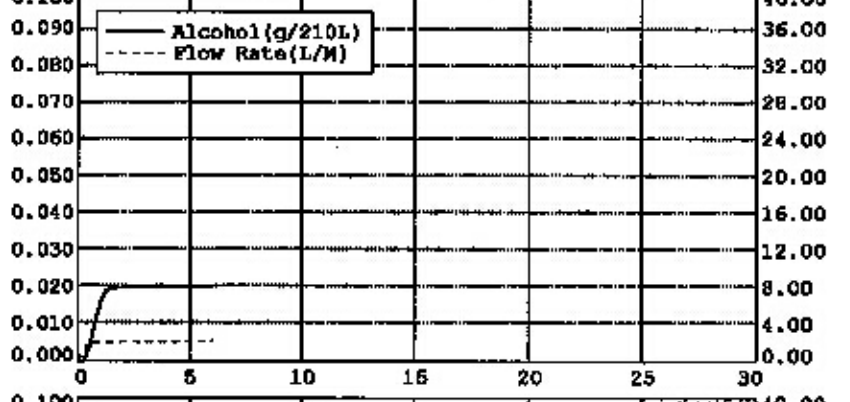
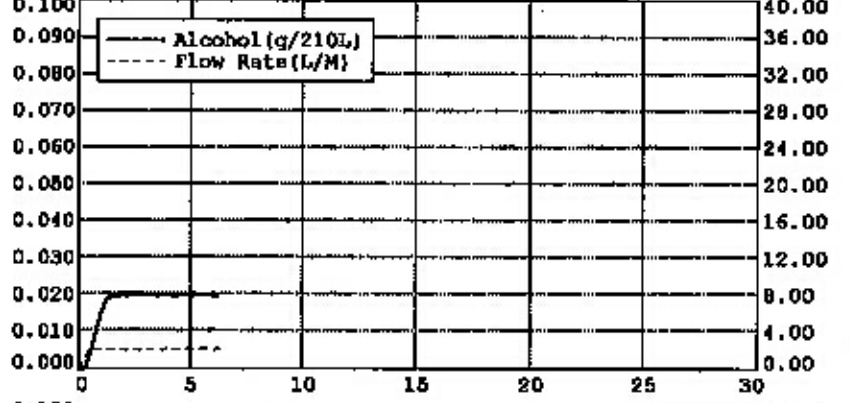
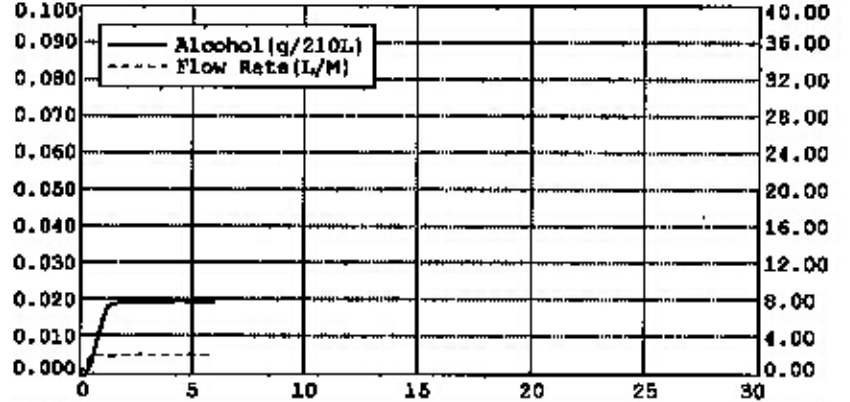
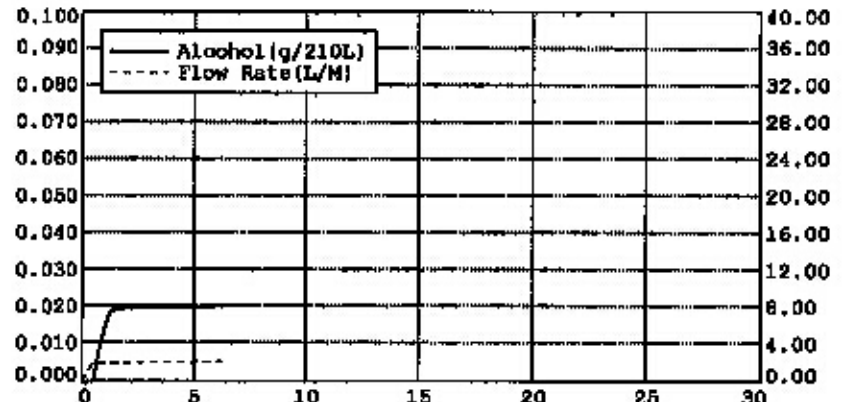
Alaska Department of Public Safety
DATAMASTER dmc: 100378

Date: 04/27/2012
Time: 13:57:32

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.56: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:10
INTERNAL STANDARD	VERIFIED	14:10
EXTERNAL STANDARD	0.021	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.020	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.020	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.020	14:14
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.020	14:15
BLANK TEST	0.000	14:16

Average = 0.0208
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

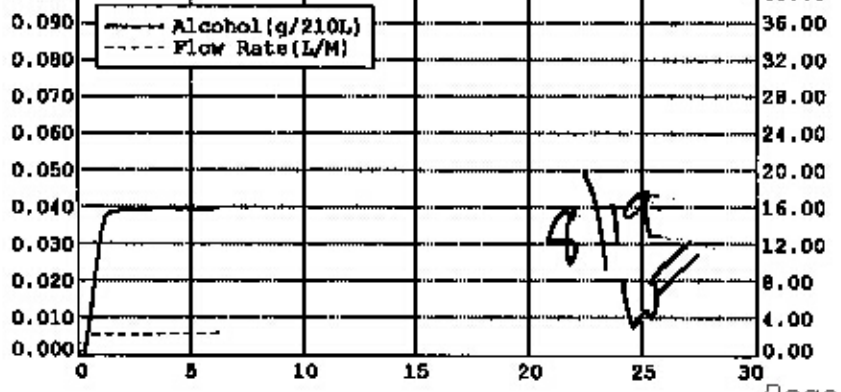
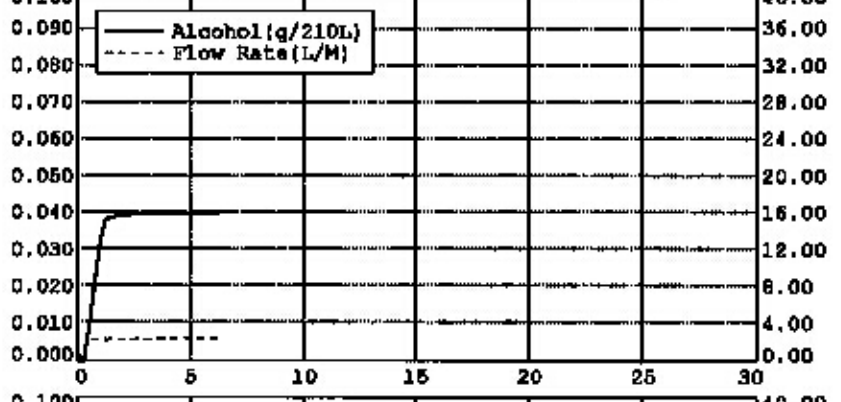
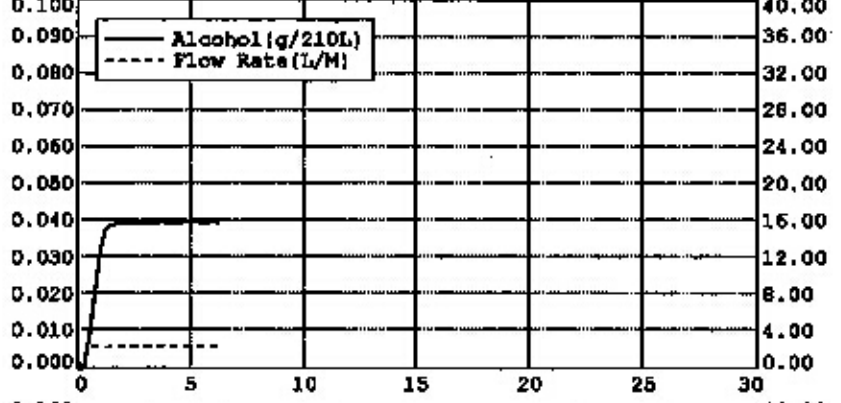
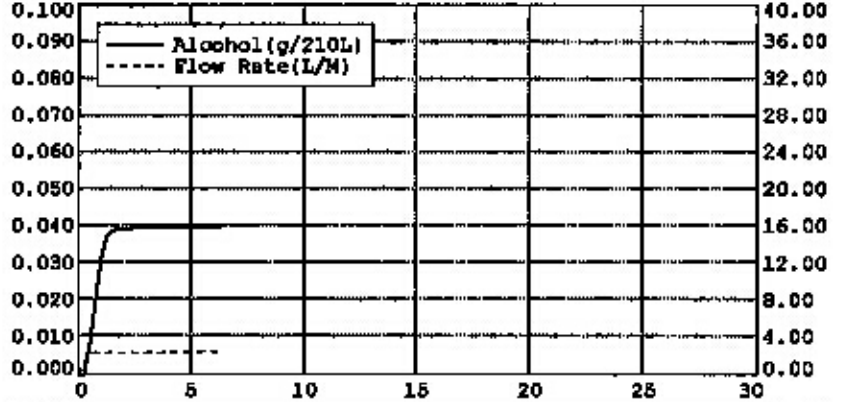
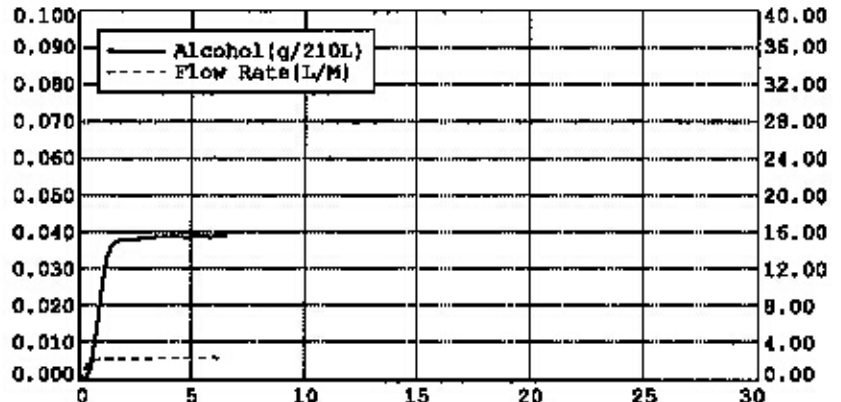
Alaska Department of Public Safety
DAYMASTER dmt: 100378

Date: 04/27/2012
Time: 14:19:07

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.55: 0.039
LOT #: 07611040AA
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:20
INTERNAL STANDARD	VERIFIED	14:20
EXTERNAL STANDARD	0.039	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.040	14:22
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.040	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.040	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.040	14:25
BLANK TEST	0.000	14:26

Average = 0.0403
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dnt: 100378

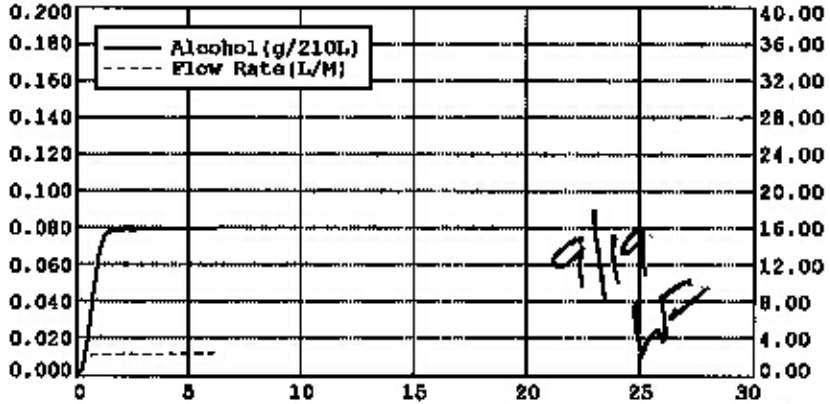
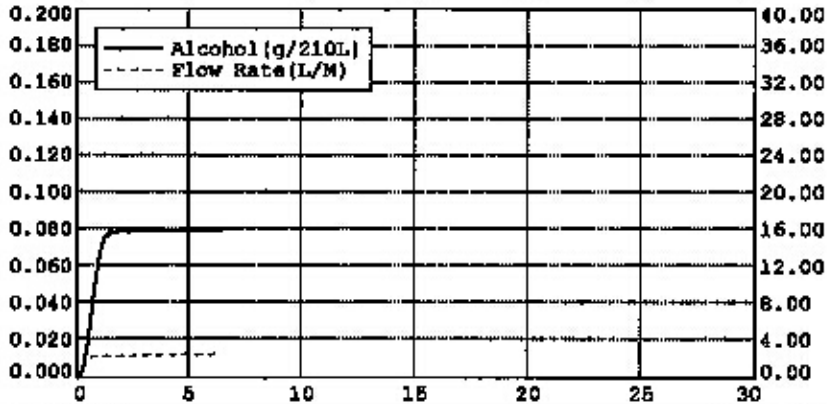
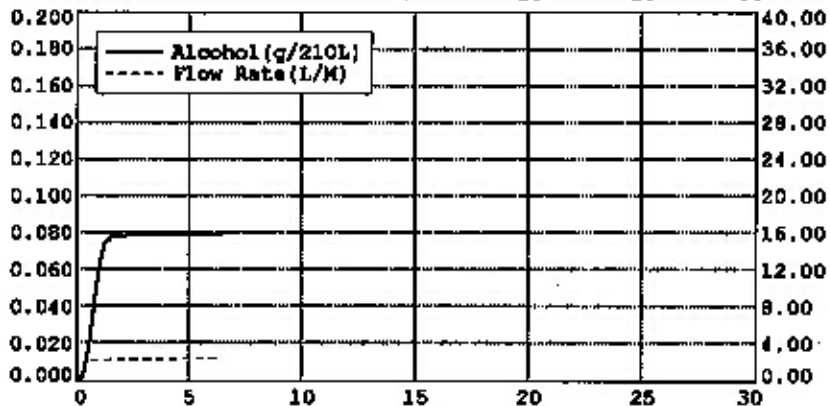
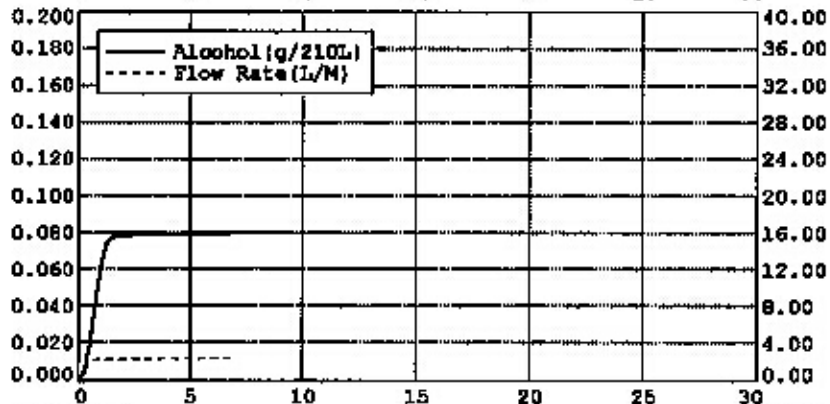
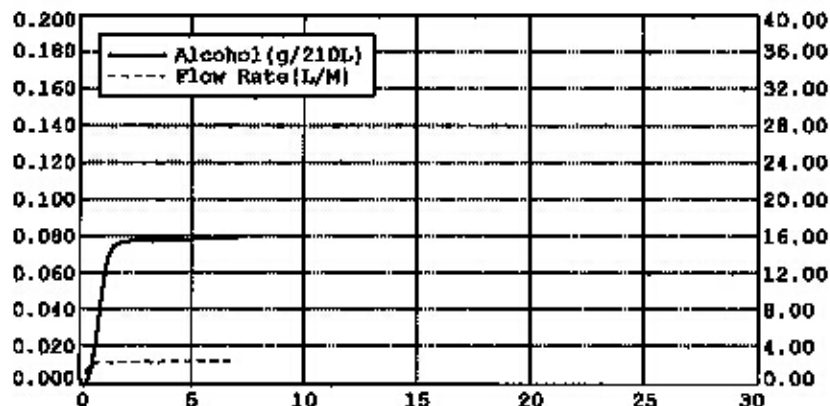
Date: 04/27/2012
Time: 14:29:03

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:31
INTERNAL STANDARD	VERIFIED	14:31
EXTERNAL STANDARD	0.079	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.080	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.079	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.080	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.080	14:36
BLANK TEST	0.000	14:37

Average = 0.0800
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

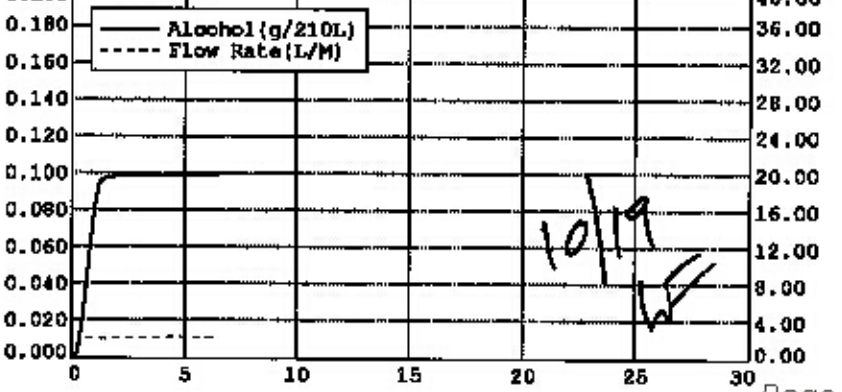
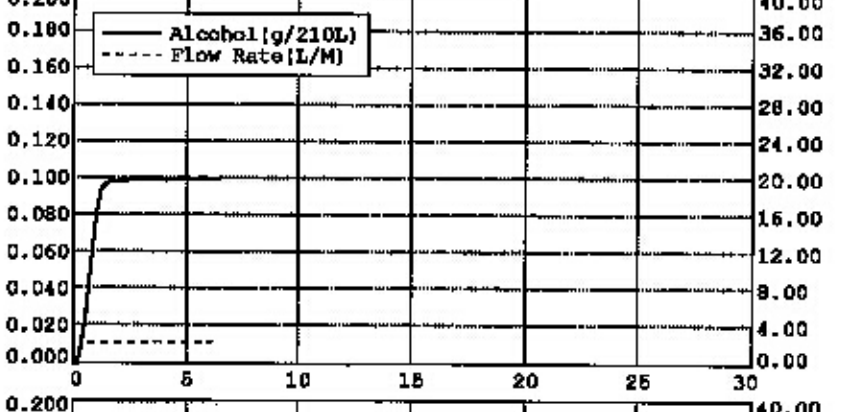
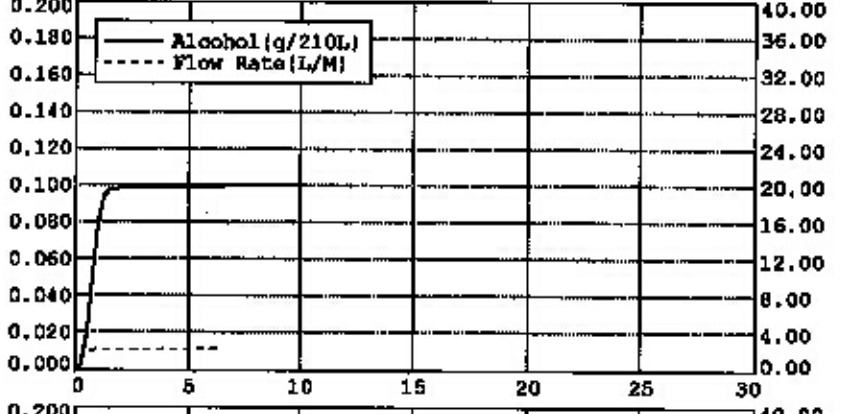
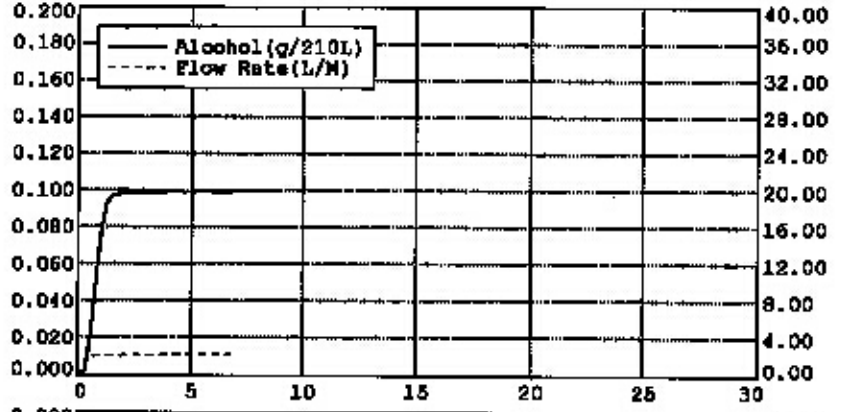
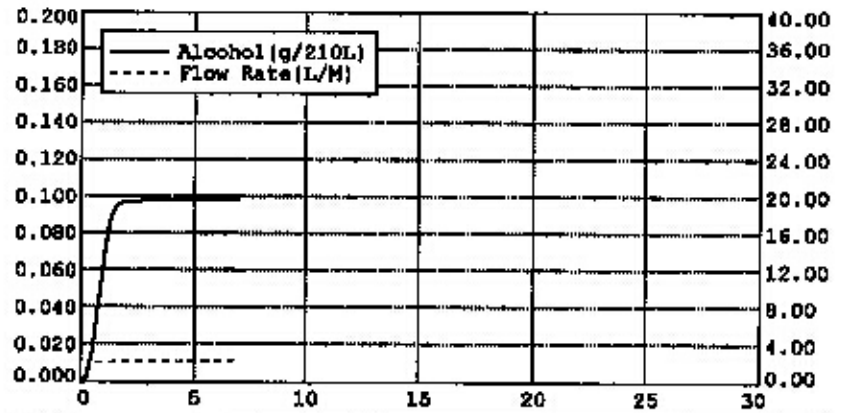
Alaska Department of Public Safety
DATAMASTER dml 100378

Date: 04/27/2012
Time: 14:39:50

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.56: 0.098
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:40
INTERNAL STANDARD	VERIFIED	14:40
EXTERNAL STANDARD	0.099	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.100	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.100	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.100	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.100	14:45
BLANK TEST	0.000	14:46

Average = 0.0998
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DAEMASTER dnt: 100378

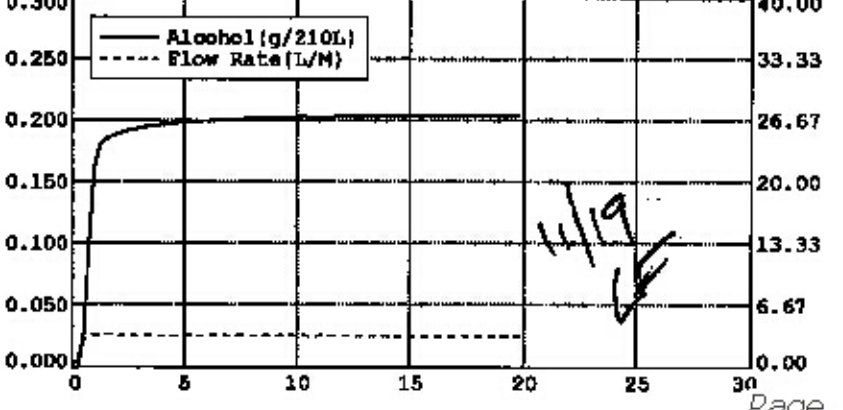
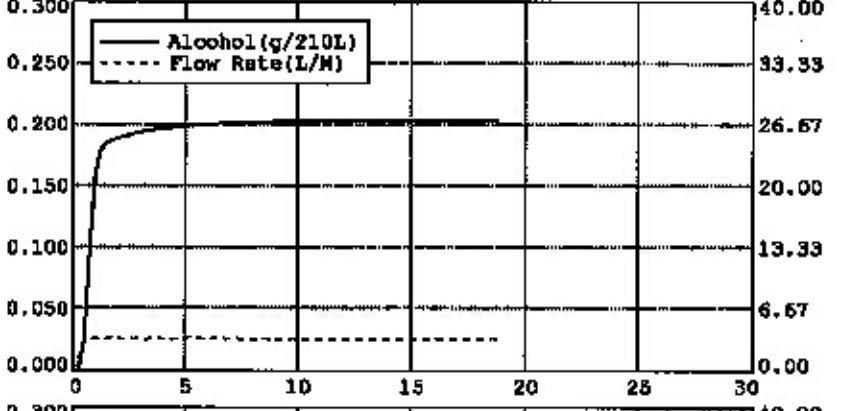
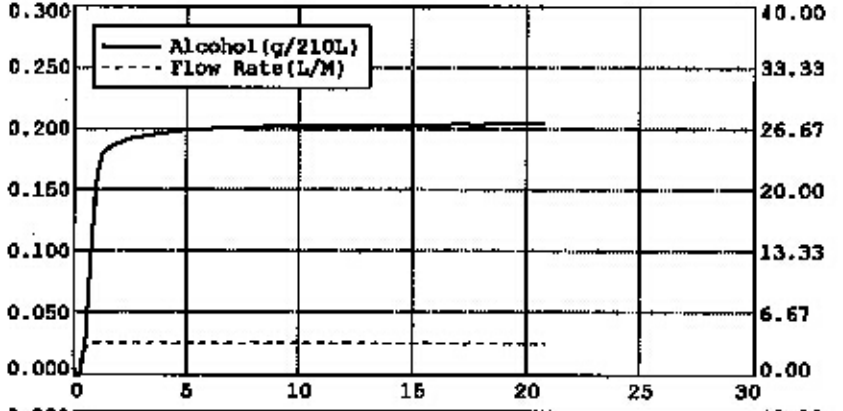
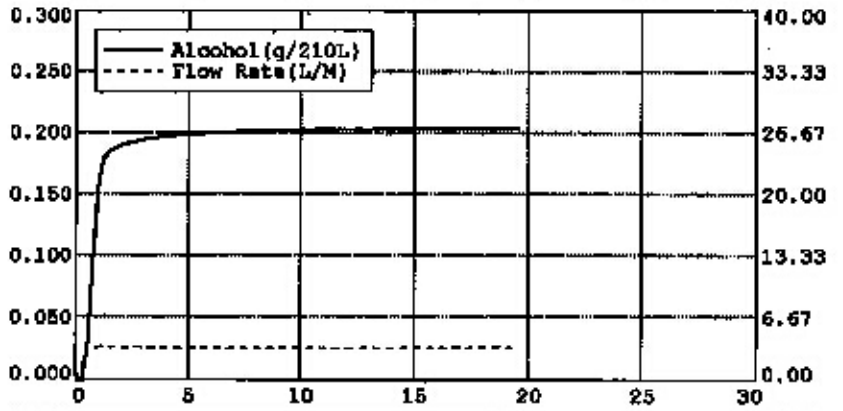
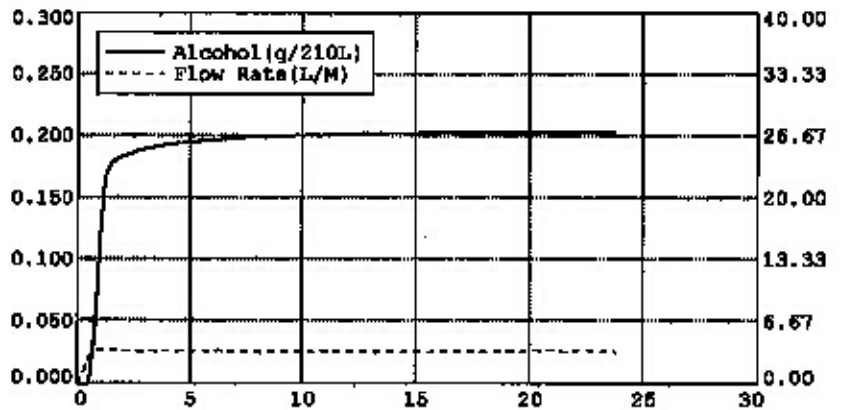
Date: 04/27/2012
Time: 14:49:06

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:50
INTERNAL STANDARD	VERIFIED	14:50
EXTERNAL STANDARD	0.204	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.204	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.205	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.204	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.204	14:56
BLANK TEST	0.000	14:57

Average = 0.2046
Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

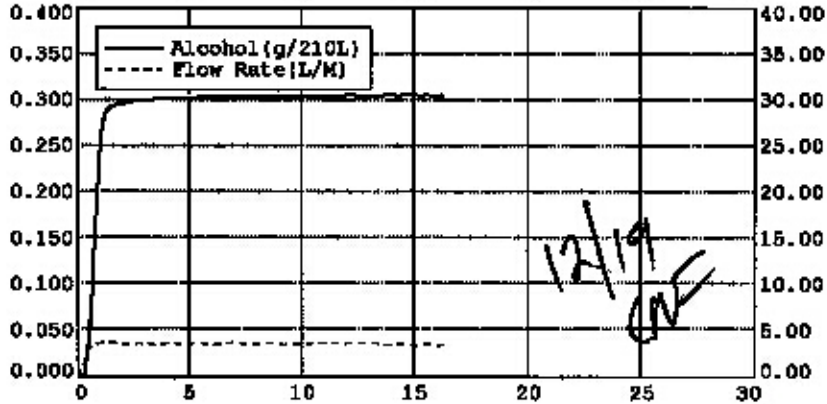
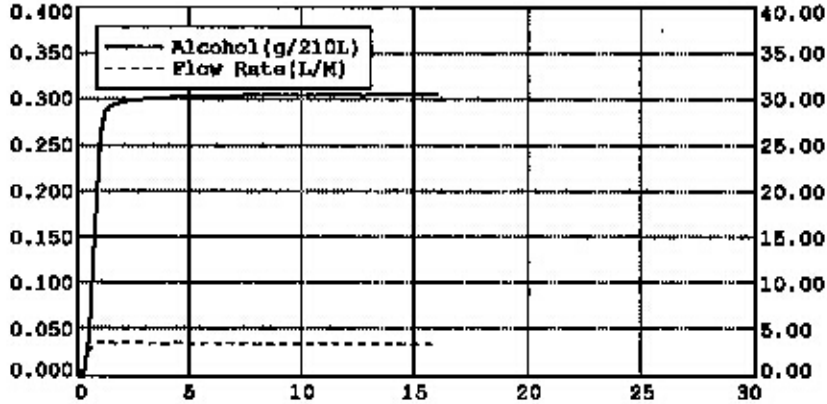
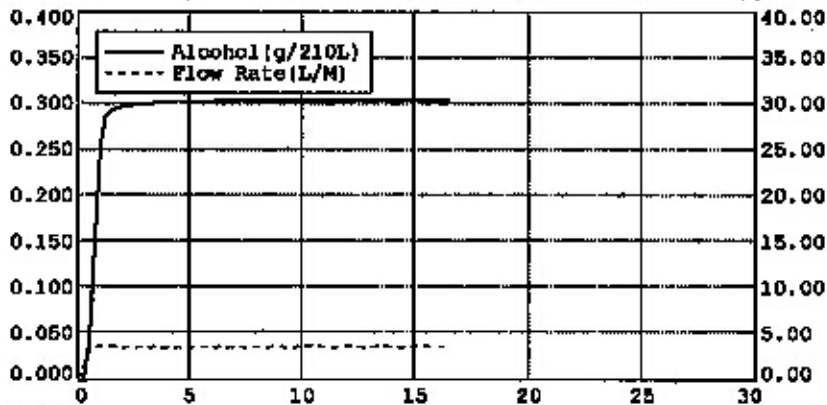
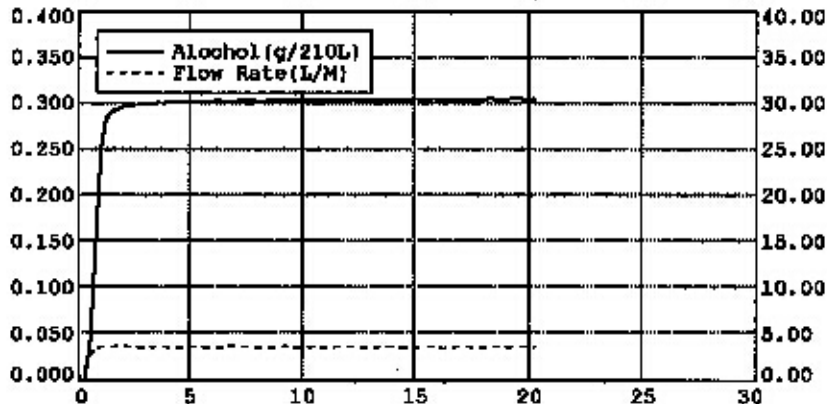
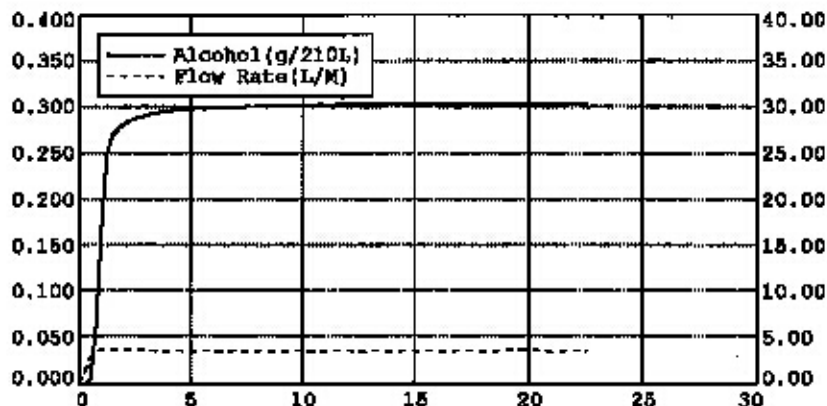
Alaska Department of Public Safety
 DATAMASTER dmt: 100378

Date: 04/27/2012
 Time: 14:59:39

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 11110
 EXPIRATION: 07/13/2013

BLANK TEST	0.000	15:00
INTERNAL STANDARD	VERIFIED	15:00
EXTERNAL STANDARD	0.304	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.305	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.304	15:04
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.305	15:05
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.304	15:06
BLANK TEST	0.000	15:07

Average = 0.3049
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATABASE# 100378

Date: 04/30/2012
Time: 08:22:29

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

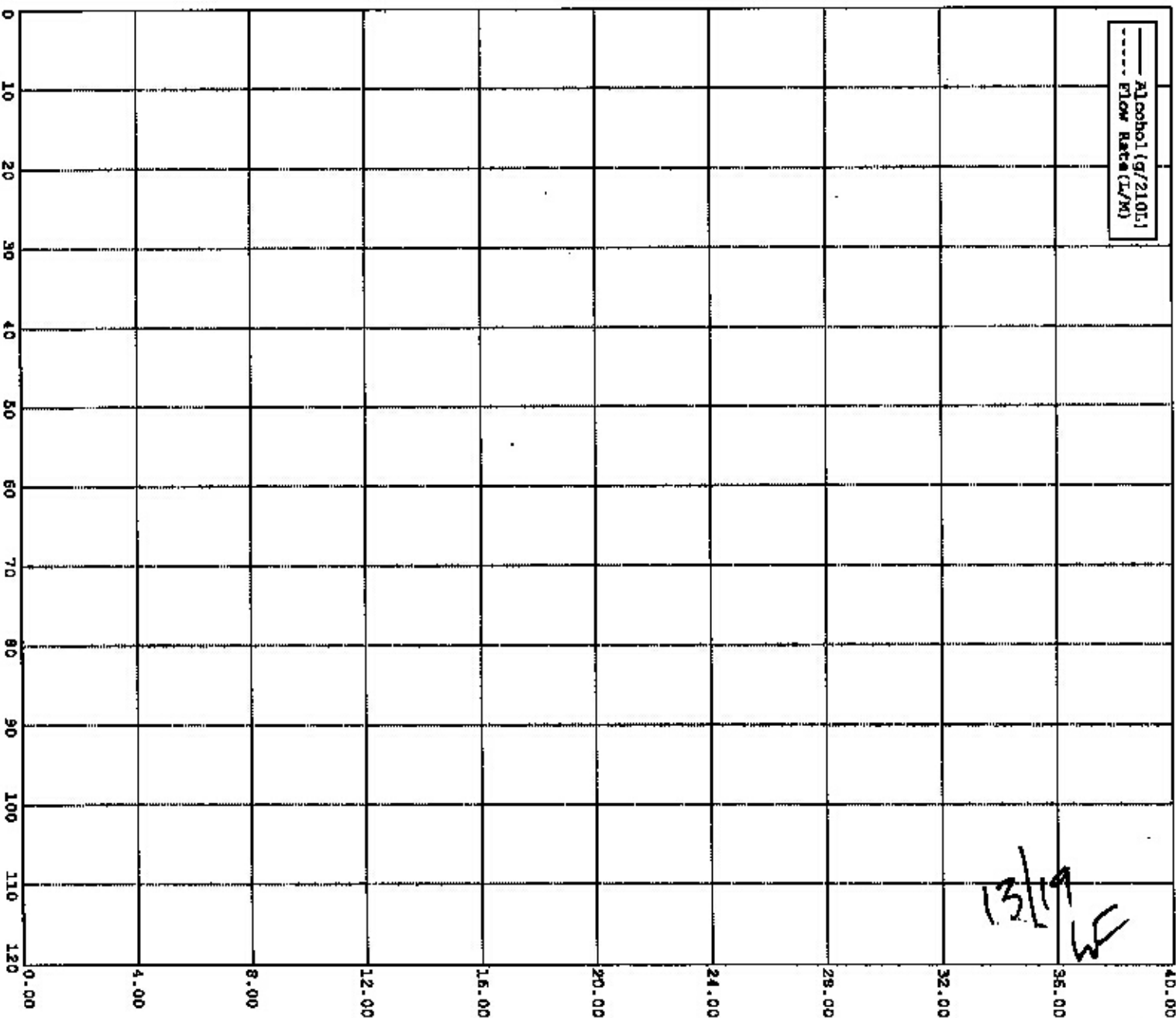
DEPT/AGENCY:
XXXX

CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AL: 29.50; 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:25
BLANK TEST	0.000	08:26
INTERNAL STANDARD	VERIFIED	08:26
EXTERNAL STANDARD	0.078	08:26
BLANK TEST	0.000	08:27
SUBJECT SAMPLE	INCOMPLETE	08:29



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmr: 100378

Date: 04/30/2012
Time: 09:28:23

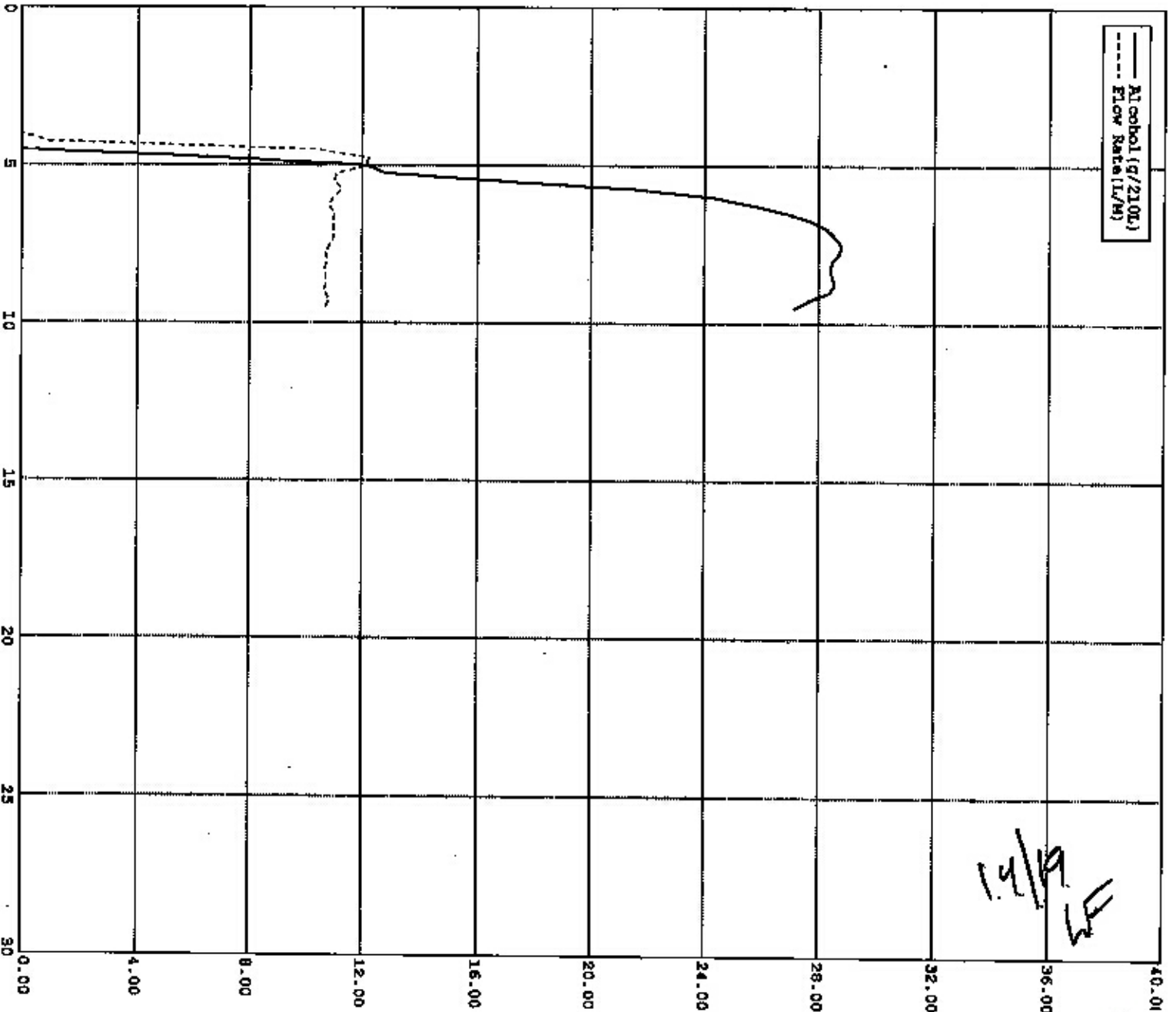
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INVALID MONTH FROM
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
MORTAL: 0.080
WEIGHT AM 29.50: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

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



SUBJECT TEST

Alaska Department of Public Safety
PARAMETER det: 100378

Date: 04/30/2012
Time: 10:11:44

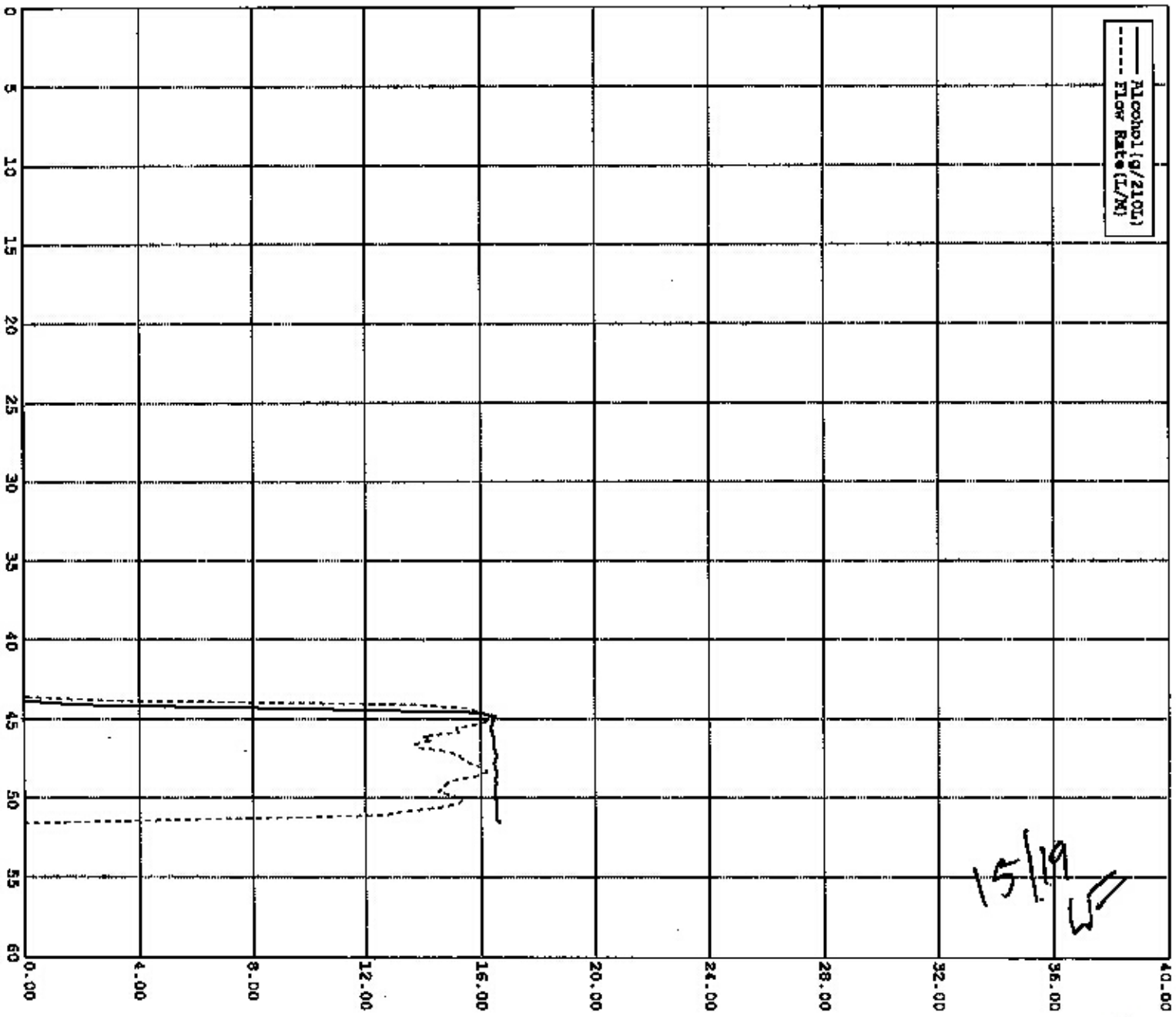
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE EPOCH AND ACSTONE
OPERATOR'S #: XXXX

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

INTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.50: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK PASSED 10:15
BLANK TEST 0.000 10:15
INTERNAL STANDARD VERIFIED 10:15
XQ = 0.079 (0.66%)
EXTERNAL STANDARD 0.078 10:15
X[L] = 0.078 (-0.0015) (0.0009)
BLANK TEST 0.000 10:16
SUBJECT SAMPLE INTERFERENCE 10:17
X[L] = 0.0835 (-0.0107) (-0.0003)



SUBJECT TEST

Alaska Department of Public Safety
DATEMASTER dmt: 100378

Date: 04/30/2012
Time: 11:02:08

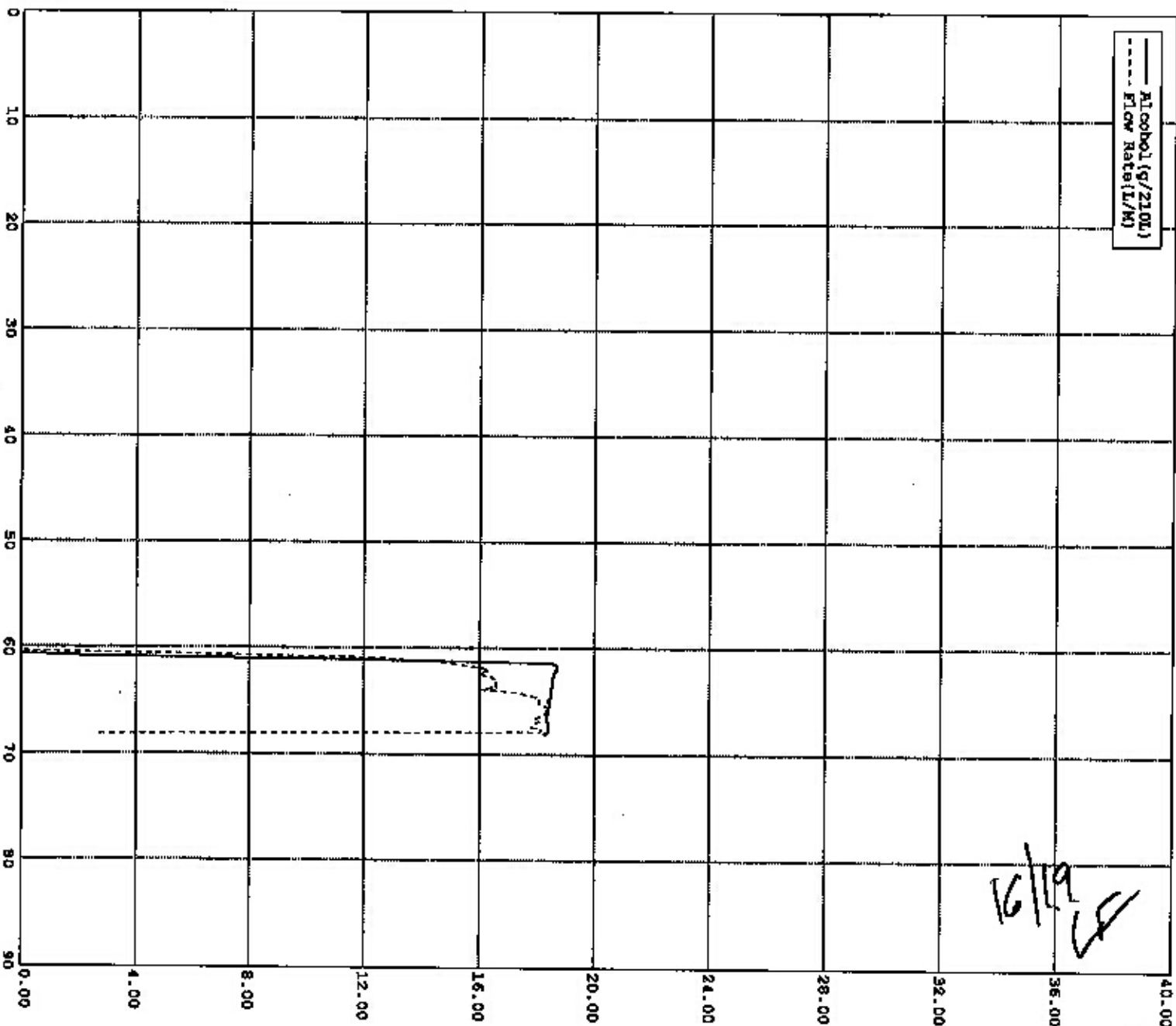
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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

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

REFERENCE STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 25.51: 0.078
LOT #: 07511080A1
EXPIRATION: 03/31/2013

DIAGNOSTIC CHECK	PASSED	11:03
BLANK TEST	0.000	11:03
INTERNAL STANDARD	VERIFIED	11:03
Xq = 0.079 (0.008)		
EXTERNAL STANDARD	0.078	11:04
X[1] = 0.0785 (-0.0010) (0.0015)		
BLANK TEST	0.000	11:05
SUBJECT SAMPLE	INTERFERENCE	11:06
X[1] = 0.0921 (-0.0239) (0.0007)		



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100378

Date: 04/30/2012
 Time: 11:16:15

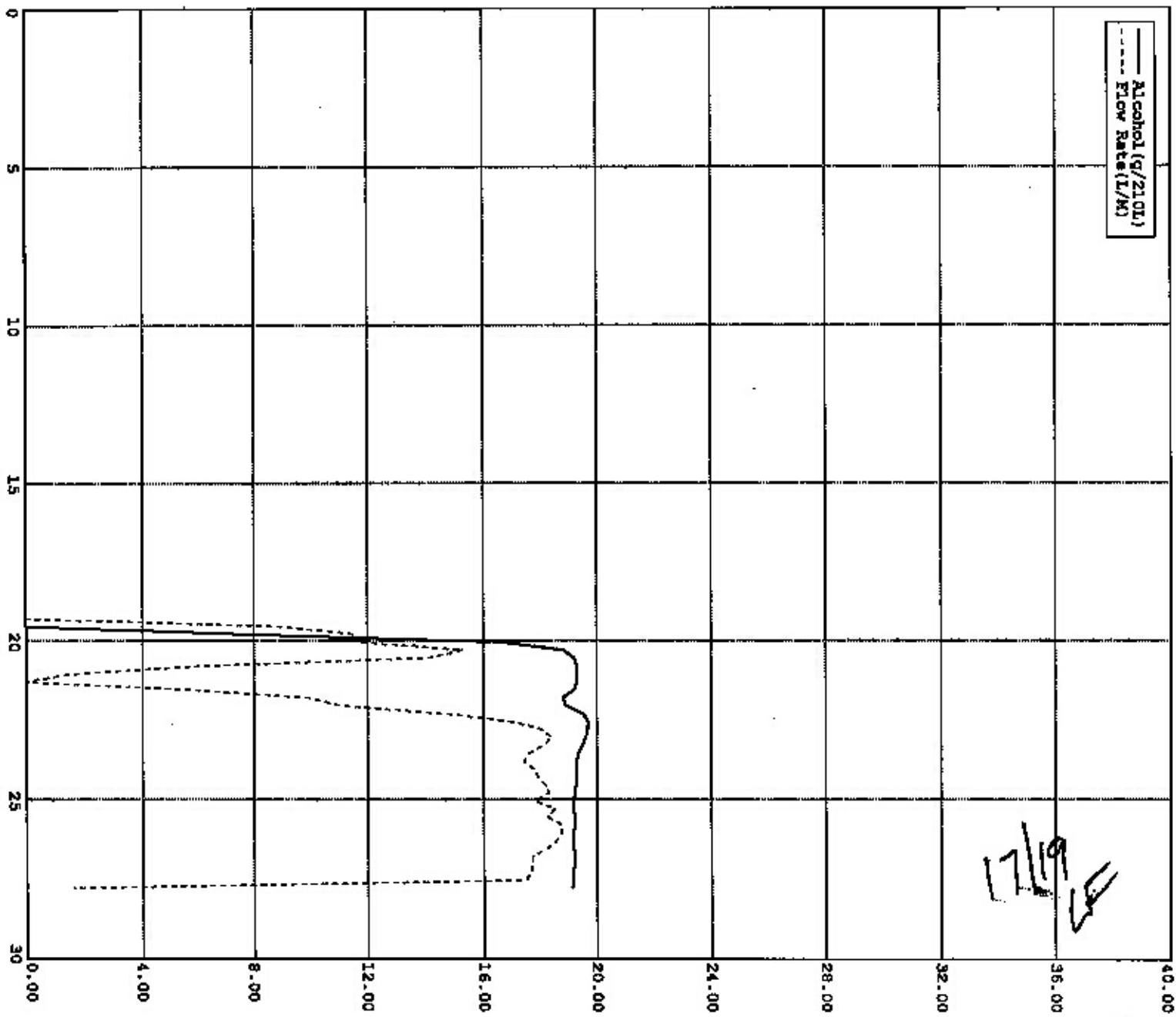
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
 RECONAL: 0.080
 TARGET AT 29.50: 0.078
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	11:18
INTERNAL STANDARD	VERIFIED	11:18
Xq = 0.080 (1.09%)		
EXTERNAL STANDARD	0.077	11:18
X[1] = 0.0779 (-0.0016)	(0.0016)	
BLANK TEST	0.000	11:19
SUBJECT SAMPLE (Vol=1.74L)	0.096	11:19
X[1] = 0.0964 (-0.0005)	(-0.0005)	
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.078	11:21
X[1] = 0.0780 (-0.0012)	(0.0014)	
BLANK TEST	0.000	11:22



SUBJECT TEST

Alaska Department of Public Safety
 DATABASE# 100378

Date: 04/30/2012
 Time: 11:39:53

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

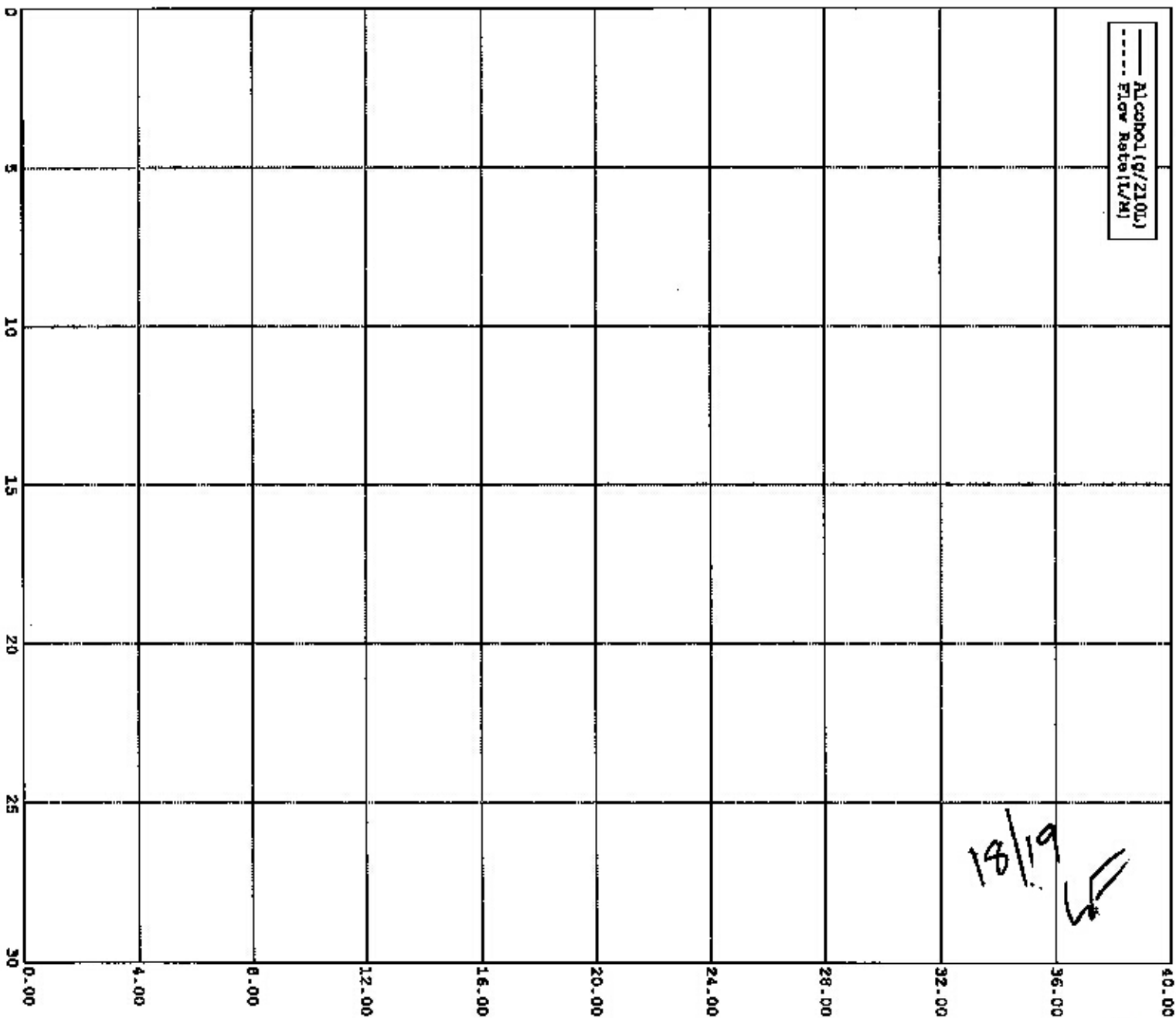
OPERATOR NAME:
 RPT XXXX
 OPERATOR'S #: XXXX

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

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

DIAGNOSTIC CHECK	PASSED	11:42
BLANK TEST	0.000	11:43
INTERNAL STANDARD	VERIFIED	11:43
EXTERNAL STANDARD	0.077	11:43
BLANK TEST	0.000	11:44

RPT DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATASHEET dmc: 100378

Date: 04/30/2012
 Time: 13:41:11

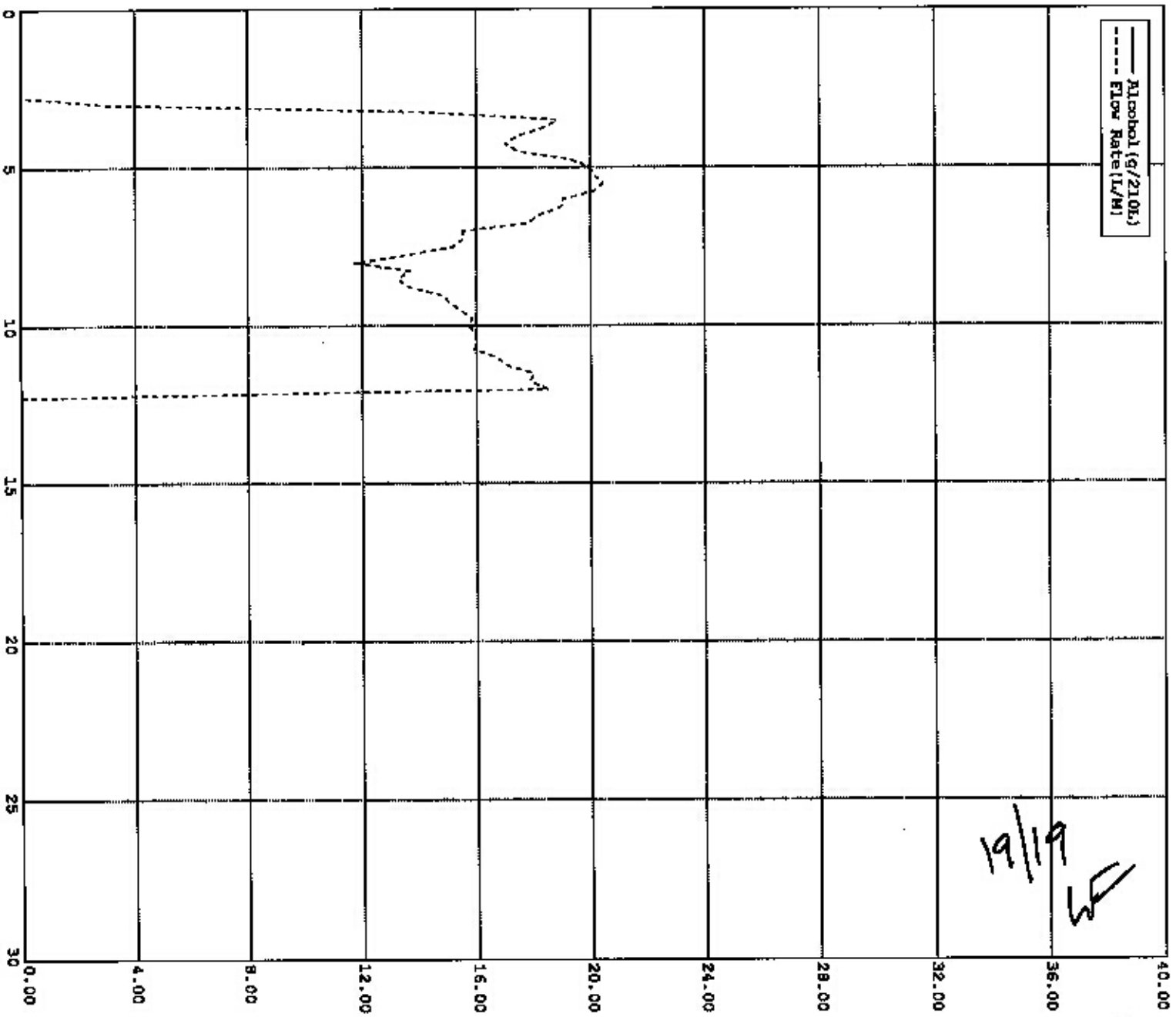
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

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

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

DIAGNOSTIC CHECK	PASSED	13:46
BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
EXTERNAL STANDARD	0.078	13:47
BLANK TEST	0.000	13:48
SUBJECT SAMPLE	0.000	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.078	13:49
BLANK TEST	0.000	13:50



Final page for report

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7/3/2014